**Pace Analytical Services**

**Laboratory Code: 11148**

**SDG Number: L2474329**

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| **Project Name:** | CORAM MATERIALS | **Lab Number:** | L2474329 |
|---|---|---|---|
| **Project Number:** | 2232.0006Y005 | **Report Date:** | 01/27/25 |

| Lab Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|---|---|---|---|---|---|
| L2474329-01 | MW-4S | WATER | 416 MILLER PLACE-YAPHANK ROAD | 12/16/24 11:00 | 12/17/24 |
| L2474329-02 | MW-4D2 | WATER | 416 MILLER PLACE-YAPHANK ROAD | 12/16/24 11:50 | 12/17/24 |
| L2474329-03 | MW-12S | WATER | 416 MILLER PLACE-YAPHANK ROAD | 12/16/24 08:45 | 12/17/24 |
| L2474329-04 | MW-12D | WATER | 416 MILLER PLACE-YAPHANK ROAD | 12/16/24 09:33 | 12/17/24 |
| L2474329-05 | EB-12162024 | EQUIPMENT BLANK | 416 MILLER PLACE-YAPHANK ROAD | 12/16/24 12:00 | 12/17/24 |
| L2474329-06 | TB-12162024 | TRIP BLANK (AQUEOUS) | 416 MILLER PLACE-YAPHANK ROAD | 12/16/24 12:10 | 12/17/24 |
| L2474329-07 | MW-4S_R | WATER | 416 MILLER PLACE-YAPHANK ROAD | 12/16/24 11:00 | 12/17/24 |

## Case Narrative

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

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

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

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

HOLD POLICY

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

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

**Case Narrative (continued)**

Report Revision

January 27, 2025: The subcontracted report for Radiochemistry has been amended.

Report Submission

January 13, 2025: This final report includes the results of all requested analyses.

December 26, 2024: 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 following analyses were subcontracted: Ammonium, Iodide, Sulfide, Radium 226, Radium 228, Thorium, and Uranium. 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.

Sample Receipt

L2474329-01 through -05: Sample containers for Total Suspended Solids were received, but not listed on the chain of custody. At the client's request, the analysis was performed.

L2474329-02 and -05: Headspace was noted in the sample containers submitted for Carbonate Alkalinity - SM 2320 and Bicarbonate Alkalinity - SM 2320.

Solids, Total Dissolved

The WG2012514-3 Laboratory Duplicate RPD for solids, total dissolved (16%), performed on L2474329-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

The WG2012514-4 Laboratory Duplicate RPD for solids, total dissolved (53%), performed on L2474329-02, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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

Authorized Signature: Kelly O'Neill Report Date: 01/27/25

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

*Report Format:* DU Report with 'J' Qualifiers

### *Footnotes*

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

### *Terms*

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

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

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

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

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

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

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

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

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

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

### *Data Qualifiers*

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

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

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

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

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

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

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

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

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

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

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

***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**

<u>Volatile Organics:</u>

| | |
|---|---|
| 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 | |

<u>Volatile Organics: VPH</u>

| | |
|---|---|
| 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 |

<u>Volatile Organics: PIANO</u>

| | |
|---|---|
| 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 |

<u>Volatile Organics: Dissolved Gas</u>

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**

<u>Volatile Organics in Air:</u>

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 | : | L2474329 | Received | : | 17-DEC-2024 |
| | | | Reviewer | : | Mohammed Wahed |
| Account Name | : | Roux Env. Eng. & Geology, DPC | | | |
| Project Number | : | 2232.0006Y005 | | | |
| Project Name | : | CORAM MATERIALS | | | |

## Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

## Cooler Information

| Cooler | Seal/Seal# | Preservation | Temperature(°C) | Additional Information |
|---|---|---|---|---|
| A | Absent/ | Ice | 2.0 | |
| B | Absent/ | Ice | 2.5 | |
| C | Absent/ | Ice | 2.0 | |

## Condition Information

1) All samples on COC received? **YES**

2) Extra samples received? **NO**

3) Are there any sample container discrepancies? **YES**
   L2474329-01P (HOLD-WETCHEM) was received in extra container.
   L2474329-02P (HOLD-WETCHEM) was received in extra container.
   L2474329-03P (HOLD-WETCHEM) was received in extra container.
   L2474329-04P (HOLD-WETCHEM) was received in extra container.
   L2474329-05P (HOLD-WETCHEM) was received in extra container.

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? **NO**
   Following containers were received with headspace: -02H, -05H

7) Are samples within holding time for requested analysis? **YES**

8) All sampling equipment returned? **NA**

## Volatile Organics/VPH

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

PACE ANALYTICAL SERVICES
LOGIN CHAIN OF CUSTODY REPORT
Feb 19 2025, 05:43 pm

Login Number: L2474329

Account: ROUX-NY  Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005  416 MILLER PLACE-YAPHANK ROAD, MILLEF

Received: 17DEC24     Due Date: 14JAN25

| Sample # | Client ID | Mat | PR | Collected |
|---|---|---|---|---|
| L2474329-01 | MW-4S | 1 | S0 | 16DEC24 11:00 |

770875478302 30.43 770881030081 30:43 Only one result per compound 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) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam NYTCL-8270 SIM RVT Report list built ASP-B Package Due Date: 01/27/25

A2-14-DIOXANESIM-PPB,ALK-CO3-2320,ALK-HCO3-2320,ASP-B,BR-300,CL-4500,F-4500,NO2-4500NO3,NO3-4500,
NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SHIPPING,SO4-4500,SUB-AMMONIUM,SUB-
IODIDE,SUB-LEVEL5,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,
FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-
UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,
PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500,
TSS-2540

| Sample # | Client ID | Mat | PR | Collected |
|---|---|---|---|---|
| L2474329-02 | MW-4D2 | 1 | S0 | 16DEC24 11:50 |

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) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam NYTCL-8270 SIM RVT Report list built  Package Due Date: 01/27/25

Login Number: L2474329
Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 17DEC24 Due Date: 14JAN25

| Sample # | Client ID | Mat PR Collected |
|---|---|---|

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,NO2-4500NO3,NO3-4500,NYTCL-8260,NYTCL-8270/SIM-RVT, NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,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,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500,TSS-2540

L2474329-03 MW-12S 1 S0 16DEC24 08:45

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) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built Package Due Date: 01/27/25

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,NO2-4500NO3,NO3-4500,NYTCL-8260,NYTCL-8270/SIM-RVT, NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,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,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500,TSS-2540

L2474329-04 MW-12D 1 S0 16DEC24 09:33

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) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built Package Due Date: 01/27/25

PACE ANALYTICAL SERVICES
LOGIN CHAIN OF CUSTODY REPORT
Feb 19 2025, 05:43 pm

Login Number: L2474329

Account: ROUX-NY  Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005  416 MILLER PLACE-YAPHANK ROAD, MILLE

Received: 17DEC24     Due Date: 14JAN25

| Sample # | Client ID | Mat | PR | Collected |
|---|---|---|---|---|

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,NO2-4500NO3,NO3-4500,NYTCL-8260,NYTCL-8270/SIM-RVT, NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,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,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500,TSS-2540

L2474329-05 EB-12162024 1 S0 16DEC24 12:00

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) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built  Package Due Date: 01/27/25

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,NO2-4500NO3,NO3-4500,NYTCL-8260,NYTCL-8270/SIM-RVT, NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,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,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500,TSS-2540

L2474329-06 TB-12162024 1 S0 16DEC24 12:10

|  Package Due Date: 01/27/25

NYTCL-8260

L2474329-07 MW-4S_R 1 S0 16DEC24 11:00

SUB directly from NJSC to Pace Greensburg  Package Due Date: 01/27/25

SUB-RA226,SUB-RA228,SUB-THORIUM,SUB-URANIUM

L2474329 13JAN25
ROUX – NY

# ALPHA ANALYTICAL

## NEW YORK CHAIN OF CUSTODY

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

Page 1 of 3

Date Rec'd in Lab: 12/18/24

Westborough, MA 01581, 8 Walkup Dr., TEL: 508-898-9220, FAX: 508-898-9193
Mansfield, MA 02048, 320 Forbes Blvd, TEL: 508-822-9300, FAX: 508-822-3288

**Project Information**

| | |
|---|---|
| Project Name: | CORAM MATERIALS |
| Project Location: | 416 Miller Place-Yaphank Road |
| Project # | 2232.0006Y005 |
| (Use Project name as Project #) ☐ | |
| Project Manager: | Julia Michaels |
| ALPHAQuote #: | 28577 |

**Turn-Around Time**
☑ Standard  Due Date:
Rush (only if pre approved) ☐  # of Days:

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

PO #

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

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

**Client Information**

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

These samples have been previously analyzed by Alpha ☐

**Other project specific requirements/comments:**
2 of 3 VOA for 8260

**Please specify Metals or TAL.**

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

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | NYTCL-8260 | NYTCL-8270/SIM-RVT | TAL600/TAL-2007S | TDS-2540 | Cl-4500/ Br-300 | NO3-4500 | NO2-4500 | TOTALNITROGEN(tkn 35 | Sample Specific Comments | Total Bottles |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 74329-01 | MW-4S | 12/16/24 | 1100 | AQ | AI | X | X | X | X | X | X | X | X | | 16 |
| -02 | MW-4D2 | 12/16/24 | 1150 | AQ | AI | X | X | X | X | X | X | X | X | | 14 |
| -03 | MW-12S | 12/16/24 | 0845 | AQ | AI | X | X | X | X | X | X | X | X | | 14 |
| -04 | MW-12D | 12/16/24 | 0933 | AQ | AI | X | X | X | X | X | X | X | X | | 14 |
| -05 | EB-12162024 | 12/16/24 | 1200 | AQ | AI | X | X | X | X | X | X | X | X | See note | 13 |
| -06 | TB-12162024 | ~~12/16/24~~ | 1210 | AQ | LAB | X | | | | | | | | | 2 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| | NYTCL-8260 | NYTCL-8270/SIM-RVT | TAL600/TAL-2007S | TDS-2540 | Cl-4500/ Br-300 | NO3-4500 | NO2-4500 | TOTALNITROGEN |
|---|---|---|---|---|---|---|---|---|
| Container Type | V | A | P | A | P | A | A | A |
| Preservative | B | A | C | A | A | D | D | D |

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

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

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

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| [signature] | 12/16/24 | VSun (RCL) | 12/17 835A |
| VSun (NSC) | 12/17 1240 | FEDPACE 18:45 | 12-17-24 |
| FEDPACE | 12-17-24 2245 | [signature] | 12/17/24 2245 |
| [signature] | 12/18/24 0115 | [signature] | 12/18/24 0115 |

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

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

ALPHA

**NEW YORK CHAIN OF CUSTODY**

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

Westborough, MA 01581, 8 Walkup Dr., TEL: 508-898-9220, FAX: 508-898-9193
Mansfield, MA 02048, 320 Forbes Blvd, TEL: 508-822-9300, FAX: 508-822-3288

Date Rec'd in Lab: 12/18/24

ALPHA Job #: L2474329

## Project Information

| | |
|---|---|
| Project Name: | CORAM MATERIALS |
| Project Location: | |
| Project #: | 2232.00006 |
| (Use Project name as Project #) | |
| Project Manager: | Julia Michaels |
| ALPHAQuote #: | 28577 |

## Turn-Around Time

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

## Client Information

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

## Deliverables

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

## Billing Information

☐ Same as Client Info
PO #

## Regulatory Requirement

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

## Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
Other:

These samples have been previously analyzed by Alpha ☐

**Other project specific requirements/comments:**

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

**Please specify Metals or TAL.**

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

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | SO4-4500 | Alk-HCO3-2320 | Alk-CO3-2320 | F-4500 | TPO4-4500 | SUB-IODIDE | SUB-AMMONIUM | A2-1,4-DIOXANE-SIM | Sample Specific Comments | Total Bottles |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 74329-01 | MW-4S | 12/16/24 | 1100 | AQ | AI | X | X | X | X | X | X | X | X | | 16 |
| -02 | MW-4D2 | 12/16/24 | 1150 | AQ | AI | X | X | X | X | X | X | X | | | |
| -03 | MW-12S | 12/16/24 | 0845 | AQ | AI | X | X | X | X | X | X | X | | | |
| -04 | MW-12D | 12/16/24 | 0933 | AQ | AI | X | X | X | X | X | X | X | | | |
| -05 | EB_12162024 | 12/16/24 | 1200 | AQ | AI | X | X | X | X | X | X | X | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| | SO4-4500 | Alk-HCO3-2320 | Alk-CO3-2320 | F-4500 | TPO4-4500 | SUB-IODIDE | SUB-AMMONIUM | A2-1,4-DIOXANE-SIM |
|---|---|---|---|---|---|---|---|---|
| Container Type | P | P | P | P | A | P | P | A |
| Preservative | A | A | A | A | D | A | D | A |

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

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

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

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| [signature] | 12/16/24 | K Siwl (Nace) | 12/17 835A |
| K Siwl (NSSC) | 12/17 1240P | ROS2 PACE | 12/17/24 13:45 |
| ROS2 PACE | 12/17/24 2245 | [signature] | 12/17/24 2245 |
| [signature] | 12/18/24 0115 | [signature] | 12/18/24 0115 |

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

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

ALPHA

**NEW YORK CHAIN OF CUSTODY**

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

Page 3 of 3

Date Rec'd in Lab: 12/18/24

ALPHA Job #: L2474329

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

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

**Project Information**

| | |
|---|---|
| Project Name: | CORAM MATERIALS |
| Project Location: | |
| Project #: | 2232.0006Y005 |
| (Use Project name as Project #) | ☐ |
| Project Manager: | Julia Michaels |
| ALPHAQuote #: | 28577 |

**Turn-Around Time**

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

**Client Information**

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

These samples have been previously analyzed by Alpha ☐

**Other project specific requirements/comments:**

Sub SULFIDE courier to PACE MELVILLE

Please specify Metals or TAL.

**Deliverables**

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

**Billing Information**

☐ Same as Client Info
PO #

**Regulatory Requirement**

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

**Disposal Site Information**

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other

**Sample Filtration**

☐ Done
☐ Lab to do
Preservation
☐ Lab to do

(Please Specify below)

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | ANALYSIS: SUB-SULFIDE | | | | | | | | Sample Specific Comments | Total Bottles |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 74329-01 | MW-4S | 12/16/24 | 1100 | AQ | AI | X | | | | | | | | | 1 |
| -02 | MW-4DR | 12/16/24 | 1150 | AQ | AI | X | | | | | | | | | |
| -03 | MW-12D | 12/16/24 | 0933 | AQ | AI | X | | | | | | | | | |
| -04 | MW-12S | 12/16/24 | 0845 | AQ | AI | X | | | | | | | | | |
| -05 | EB-12162024 | 12/16/24 | 1200 | AQ | AI | X | | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Container Type | P | | | | | | | |
| Preservative | C | | | | | | | |

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

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

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

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| [signature] | 12/16/24 | VSHG (PACE) | 12/17 838 |
| | | | |
| | | | |

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

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

Do not copy

Sign here

to Melville

L2474329 24DEC24
ROUX – NY

# NEW YORK CHAIN OF CUSTODY

ALPHA

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

Page 1 of 1

Date Rec'd in Lab 12/18/24


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

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


**Client Information**

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

**Project Information**

| | |
|---|---|
| Project Name: | CORAM MATERIALS |
| Project Location: | 416 Miller Place - Yaphank Road |
| Project # | 2232.0006Y005 |
| (Use Project name as Project #) | ☐ |
| Project Manager: | Julia Michaels |
| ALPHAQuote #: | 28577 |

**Turn-Around Time**

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

**Deliverables**

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

**Billing Information**

☐ Same as Client Info
PO #

**Regulatory Requirement**

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

**Disposal Site Information**

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

These samples have been previously analyzed by Alpha ☐

**Other project specific requirements/comments:**

SUB Uranium/Thorium/RA226/RA228 Send to PACE Greensburg

**Please specify Metals or TAL.**

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | Sub-Uranium: HASL 300 | Sub-Thorium: HASL 300 | Sub-Ra228: 904.0 | Sub-RA226: 903.1 | | | | | Sample Specific Comments | Total Bottles |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 74329-01 | MW-4S_R | 12/16/24 | 1100 | AQ | AI | X | X | X | X | | | | | | 4 |
| Container Type | | | | | | P | P | P | P | | | | | | |
| Preservative | | | | | | C | C | C | C | | | | | | |

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

| Preservative Code: | Container Code |
|---|---|
| A = None | P = Plastic |
| B = HCl | A = Amber Glass |
| C = $HNO_3$ | V = Vial |
| D = $H_2SO_4$ | G = Glass |
| E = NaOH | B = Bacteria Cup |
| F = MeOH | C = Cube |
| G = $NaHSO_4$ | O = Other |
| H = $Na_2S_2O_3$ | E = Encore |
| K/E = Zn Ac/NaOH | D = BOD Bottle |
| O = Other | |

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

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| [signature] | 12/16/24 | KSA/NTS | 12/17 835A |
| KSA/NTS | 12/17 1844 | PCEPACE 18:45 | 12.17.24 |
| PCEPACE | 12.17.24 2245 | [signature] | 12/17/24 2245 |
| [signature] | 12/18/24 0115 | [signature] | 12/18/24 0115 |

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

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

# Organics

# GC/MS 8260
# Analysis

# Volatiles QC Summary

# Surrogate Recovery Summary
# Form 2
# Volatiles

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

**Lab Number:** L2474329
**Project Number:** 2232.0006Y005
**Matrix:**

| CLIENT ID (LAB SAMPLE NO.) | SMC1 DCA | SMC2 TOL | SMC3 BFB | SMC4 DBFM | TOT OUT |
|---|---|---|---|---|---|
| MW-4S (L2474329-01) | 104 | 99 | 94 | 111 | 0 |
| MW-4D2 (L2474329-02) | 105 | 98 | 92 | 111 | 0 |
| MW-12S (L2474329-03) | 104 | 102 | 98 | 96 | 0 |
| MW-12D (L2474329-04) | 103 | 102 | 99 | 96 | 0 |
| EB-12162024 (L2474329-05) | 105 | 101 | 100 | 98 | 0 |
| TB-12162024 (L2474329-06) | 103 | 103 | 100 | 98 | 0 |
| WG2012422-3LCS | 104 | 100 | 95 | 104 | 0 |
| WG2012422-4LCSD | 106 | 100 | 95 | 105 | 0 |
| WG2012422-5BLANK | 105 | 98 | 94 | 109 | 0 |
| WG2012561-3LCS | 100 | 100 | 97 | 97 | 0 |
| WG2012561-4LCSD | 98 | 100 | 97 | 97 | 0 |
| WG2012561-5BLANK | 100 | 103 | 100 | 96 | 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** : L2474329
**Project Name** : CORAM MATERIALS **Project Number** : 2232.0006Y005
**Matrix (Level)** : WATER (LOW)
**LCS Sample ID** : WG2012422-3 **Analysis Date** : 12/20/24 09:54 **File ID** : V05241220B02
**LCSD Sample ID** : WG2012422-4 **Analysis Date** : 12/20/24 10:20 **File ID** : V05241220B03

| | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Parameter | True (ug/l) | Found (ug/l) | %R | True (ug/l) | Found (ug/l) | %R | RPD | Recovery Limits | RPD Limit |
| Methylene chloride | 10 | 9.8 | 98 | 10 | 8.6 | 86 | 13 | 70-130 | 20 |
| 1,1-Dichloroethane | 10 | 8.7 | 87 | 10 | 7.5 | 75 | 15 | 70-130 | 20 |
| Chloroform | 10 | 11 | 110 | 10 | 9.3 | 93 | 17 | 70-130 | 20 |
| Carbon tetrachloride | 10 | 10 | 100 | 10 | 8.9 | 89 | 12 | 63-132 | 20 |
| 1,2-Dichloropropane | 10 | 8.4 | 84 | 10 | 7.1 | 71 | 17 | 70-130 | 20 |
| Dibromochloromethane | 10 | 10 | 100 | 10 | 9.0 | 90 | 11 | 63-130 | 20 |
| 1,1,2-Trichloroethane | 10 | 10 | 100 | 10 | 9.1 | 91 | 9 | 70-130 | 20 |
| Tetrachloroethene | 10 | 11 | 110 | 10 | 9.1 | 91 | 19 | 70-130 | 20 |
| Chlorobenzene | 10 | 10 | 100 | 10 | 8.8 | 88 | 13 | 75-130 | 20 |
| Trichlorofluoromethane | 10 | 11 | 110 | 10 | 9.0 | 90 | 20 | 62-150 | 20 |
| 1,2-Dichloroethane | 10 | 9.4 | 94 | 10 | 8.3 | 83 | 12 | 70-130 | 20 |
| 1,1,1-Trichloroethane | 10 | 11 | 110 | 10 | 9.0 | 90 | 20 | 67-130 | 20 |
| Bromodichloromethane | 10 | 10 | 100 | 10 | 9.1 | 91 | 9 | 67-130 | 20 |
| trans-1,3-Dichloropropene | 10 | 10 | 100 | 10 | 9.0 | 90 | 11 | 70-130 | 20 |
| cis-1,3-Dichloropropene | 10 | 10 | 100 | 10 | 8.6 | 86 | 15 | 70-130 | 20 |
| Bromoform | 10 | 10 | 100 | 10 | 9.2 | 92 | 8 | 54-136 | 20 |
| 1,1,2,2-Tetrachloroethane | 10 | 9.2 | 92 | 10 | 8.3 | 83 | 10 | 67-130 | 20 |
| Benzene | 10 | 10 | 100 | 10 | 8.8 | 88 | 13 | 70-130 | 20 |
| Toluene | 10 | 10 | 100 | 10 | 8.7 | 87 | 14 | 70-130 | 20 |
| Ethylbenzene | 10 | 10 | 100 | 10 | 8.7 | 87 | 14 | 70-130 | 20 |
| Chloromethane | 10 | 5.9 | 59 Q | 10 | 4.9 | 49 Q | 19 | 64-130 | 20 |
| Bromomethane | 10 | 6.8 | 68 | 10 | 5.8 | 58 | 16 | 39-139 | 20 |
| Vinyl chloride | 10 | 7.5 | 75 | 10 | 6.2 | 62 | 19 | 55-140 | 20 |
| Chloroethane | 10 | 8.7 | 87 | 10 | 7.3 | 73 | 18 | 55-138 | 20 |
| 1,1-Dichloroethene | 10 | 10 | 100 | 10 | 8.5 | 85 | 16 | 61-145 | 20 |
| trans-1,2-Dichloroethene | 10 | 10 | 100 | 10 | 9.0 | 90 | 11 | 70-130 | 20 |

# Laboratory Control Sample Summary
# Form 3
# Volatiles

| | | | | |
|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | | **Project Number** | : 2232.0006Y005 |
| **Matrix (Level)** | : WATER (LOW) | | | |
| **LCS Sample ID** | : WG2012422-3 | Analysis Date : 12/20/24 09:54 | **File ID** | : V05241220B02 |
| **LCSD Sample ID** | : WG2012422-4 | Analysis Date : 12/20/24 10:20 | **File ID** | : V05241220B03 |

| | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Parameter | True (ug/l) | Found (ug/l) | %R | True (ug/l) | Found (ug/l) | %R | RPD | Recovery Limits | RPD Limit |
| Trichloroethene | 10 | 9.8 | 98 | 10 | 8.4 | 84 | 15 | 70-130 | 20 |
| 1,2-Dichlorobenzene | 10 | 9.8 | 98 | 10 | 8.6 | 86 | 13 | 70-130 | 20 |
| 1,3-Dichlorobenzene | 10 | 9.7 | 97 | 10 | 8.5 | 85 | 13 | 70-130 | 20 |
| 1,4-Dichlorobenzene | 10 | 9.9 | 99 | 10 | 8.6 | 86 | 14 | 70-130 | 20 |
| Methyl tert butyl ether | 10 | 11 | 110 | 10 | 9.5 | 95 | 15 | 63-130 | 20 |
| p/m-Xylene | 20 | 21 | 105 | 20 | 18 | 90 | 15 | 70-130 | 20 |
| o-Xylene | 20 | 21 | 105 | 20 | 18 | 90 | 15 | 70-130 | 20 |
| cis-1,2-Dichloroethene | 10 | 10 | 100 | 10 | 9.1 | 91 | 9 | 70-130 | 20 |
| Styrene | 20 | 21 | 105 | 20 | 18 | 90 | 15 | 70-130 | 20 |
| Dichlorodifluoromethane | 10 | 10 | 100 | 10 | 8.1 | 81 | 21 Q | 36-147 | 20 |
| Acetone | 10 | 6.8 | 68 | 10 | 5.9 | 59 | 14 | 58-148 | 20 |
| Carbon disulfide | 10 | 10 | 100 | 10 | 8.7 | 87 | 14 | 51-130 | 20 |
| 2-Butanone | 10 | 7.8 | 78 | 10 | 7.4 | 74 | 5 | 63-138 | 20 |
| 4-Methyl-2-pentanone | 10 | 7.0 | 70 | 10 | 6.7 | 67 | 4 | 59-130 | 20 |
| 2-Hexanone | 10 | 6.8 | 68 | 10 | 6.3 | 63 | 8 | 57-130 | 20 |
| Bromochloromethane | 10 | 11 | 110 | 10 | 9.4 | 94 | 16 | 70-130 | 20 |
| 1,2-Dibromoethane | 10 | 10 | 100 | 10 | 9.0 | 90 | 11 | 70-130 | 20 |
| 1,2-Dibromo-3-chloropropane | 10 | 8.4 | 84 | 10 | 7.9 | 79 | 6 | 41-144 | 20 |
| Isopropylbenzene | 10 | 9.3 | 93 | 10 | 7.9 | 79 | 16 | 70-130 | 20 |
| 1,2,3-Trichlorobenzene | 10 | 9.7 | 97 | 10 | 8.7 | 87 | 11 | 70-130 | 20 |
| 1,2,4-Trichlorobenzene | 10 | 10 | 100 | 10 | 8.9 | 89 | 12 | 70-130 | 20 |
| Methyl Acetate | 10 | 7.1 | 71 | 10 | 6.4 | 64 Q | 10 | 70-130 | 20 |
| Cyclohexane | 10 | 7.3 | 73 | 10 | 5.9 | 59 Q | 21 Q | 70-130 | 20 |
| Freon-113 | 10 | 11 | 110 | 10 | 8.6 | 86 | 24 Q | 70-130 | 20 |
| Methyl cyclohexane | 10 | 10 | 100 | 10 | 8.0 | 80 | 22 Q | 70-130 | 20 |

# Laboratory Control Sample Summary
# Form 3
# Volatiles

| | | | |
|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Matrix (Level)** | : **WATER (LOW)** | | |
| **LCS Sample ID** | : **WG2012561-3** **Analysis Date : 12/21/24 05:08** | **File ID** | : **V01241221A01** |
| **LCSD Sample ID** | : **WG2012561-4** **Analysis Date : 12/21/24 05:33** | **File ID** | : **V01241221A02** |

| Parameter | Laboratory Control Sample True (ug/l) | Found (ug/l) | %R | Laboratory Control Duplicate True (ug/l) | Found (ug/l) | %R | RPD | Recovery Limits | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Methylene chloride | 10 | 9.9 | 99 | 10 | 9.2 | 92 | 7 | 70-130 | 20 |
| 1,1-Dichloroethane | 10 | 11 | 110 | 10 | 9.7 | 97 | 13 | 70-130 | 20 |
| Chloroform | 10 | 10 | 100 | 10 | 9.4 | 94 | 6 | 70-130 | 20 |
| Carbon tetrachloride | 10 | 9.6 | 96 | 10 | 8.7 | 87 | 10 | 63-132 | 20 |
| 1,2-Dichloropropane | 10 | 11 | 110 | 10 | 9.9 | 99 | 11 | 70-130 | 20 |
| Dibromochloromethane | 10 | 9.8 | 98 | 10 | 8.8 | 88 | 11 | 63-130 | 20 |
| 1,1,2-Trichloroethane | 10 | 11 | 110 | 10 | 9.8 | 98 | 12 | 70-130 | 20 |
| Tetrachloroethene | 10 | 9.9 | 99 | 10 | 9.0 | 90 | 10 | 70-130 | 20 |
| Chlorobenzene | 10 | 10 | 100 | 10 | 9.6 | 96 | 4 | 75-130 | 20 |
| Trichlorofluoromethane | 10 | 12 | 120 | 10 | 11 | 110 | 9 | 62-150 | 20 |
| 1,2-Dichloroethane | 10 | 10 | 100 | 10 | 9.6 | 96 | 4 | 70-130 | 20 |
| 1,1,1-Trichloroethane | 10 | 10 | 100 | 10 | 9.2 | 92 | 8 | 67-130 | 20 |
| Bromodichloromethane | 10 | 9.9 | 99 | 10 | 9.2 | 92 | 7 | 67-130 | 20 |
| trans-1,3-Dichloropropene | 10 | 9.6 | 96 | 10 | 8.8 | 88 | 9 | 70-130 | 20 |
| cis-1,3-Dichloropropene | 10 | 9.4 | 94 | 10 | 8.9 | 89 | 5 | 70-130 | 20 |
| Bromoform | 10 | 9.1 | 91 | 10 | 8.4 | 84 | 8 | 54-136 | 20 |
| 1,1,2,2-Tetrachloroethane | 10 | 12 | 120 | 10 | 11 | 110 | 9 | 67-130 | 20 |
| Benzene | 10 | 10 | 100 | 10 | 9.8 | 98 | 2 | 70-130 | 20 |
| Toluene | 10 | 10 | 100 | 10 | 9.7 | 97 | 3 | 70-130 | 20 |
| Ethylbenzene | 10 | 11 | 110 | 10 | 9.8 | 98 | 12 | 70-130 | 20 |
| Chloromethane | 10 | 10 | 100 | 10 | 9.5 | 95 | 5 | 64-130 | 20 |
| Bromomethane | 10 | 7.4 | 74 | 10 | 6.9 | 69 | 7 | 39-139 | 20 |
| Vinyl chloride | 10 | 12 | 120 | 10 | 11 | 110 | 9 | 55-140 | 20 |
| Chloroethane | 10 | 15 | 150 Q | 10 | 14 | 140 Q | 7 | 55-138 | 20 |
| 1,1-Dichloroethene | 10 | 12 | 120 | 10 | 11 | 110 | 9 | 61-145 | 20 |
| trans-1,2-Dichloroethene | 10 | 10 | 100 | 10 | 9.2 | 92 | 8 | 70-130 | 20 |

# Laboratory Control Sample Summary
# Form 3
# Volatiles

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Matrix (Level)** | : WATER (LOW) | | |
| **LCS Sample ID** | : WG2012561-3 Analysis Date : 12/21/24 05:08 | **File ID** | : V01241221A01 |
| **LCSD Sample ID** | : WG2012561-4 Analysis Date : 12/21/24 05:33 | **File ID** | : V01241221A02 |

| | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Parameter** | **True (ug/l)** | **Found (ug/l)** | **%R** | **True (ug/l)** | **Found (ug/l)** | **%R** | **RPD** | **Recovery Limits** | **RPD Limit** |
| Trichloroethene | 10 | 10 | 100 | 10 | 9.6 | 96 | 4 | 70-130 | 20 |
| 1,2-Dichlorobenzene | 10 | 11 | 110 | 10 | 10 | 100 | 10 | 70-130 | 20 |
| 1,3-Dichlorobenzene | 10 | 11 | 110 | 10 | 10 | 100 | 10 | 70-130 | 20 |
| 1,4-Dichlorobenzene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| Methyl tert butyl ether | 10 | 9.0 | 90 | 10 | 8.2 | 82 | 9 | 63-130 | 20 |
| p/m-Xylene | 20 | 21 | 105 | 20 | 19 | 95 | 10 | 70-130 | 20 |
| o-Xylene | 20 | 21 | 105 | 20 | 19 | 95 | 10 | 70-130 | 20 |
| cis-1,2-Dichloroethene | 10 | 10 | 100 | 10 | 9.4 | 94 | 6 | 70-130 | 20 |
| Styrene | 20 | 21 | 105 | 20 | 20 | 100 | 5 | 70-130 | 20 |
| Dichlorodifluoromethane | 10 | 10 | 100 | 10 | 9.4 | 94 | 6 | 36-147 | 20 |
| Acetone | 10 | 8.6 | 86 | 10 | 7.5 | 75 | 14 | 58-148 | 20 |
| Carbon disulfide | 10 | 12 | 120 | 10 | 11 | 110 | 9 | 51-130 | 20 |
| 2-Butanone | 10 | 10 | 100 | 10 | 9.1 | 91 | 9 | 63-138 | 20 |
| 4-Methyl-2-pentanone | 10 | 9.9 | 99 | 10 | 8.5 | 85 | 15 | 59-130 | 20 |
| 2-Hexanone | 10 | 9.8 | 98 | 10 | 8.7 | 87 | 12 | 57-130 | 20 |
| Bromochloromethane | 10 | 9.8 | 98 | 10 | 9.2 | 92 | 6 | 70-130 | 20 |
| 1,2-Dibromoethane | 10 | 10 | 100 | 10 | 9.6 | 96 | 4 | 70-130 | 20 |
| 1,2-Dibromo-3-chloropropane | 10 | 9.5 | 95 | 10 | 8.5 | 85 | 11 | 41-144 | 20 |
| Isopropylbenzene | 10 | 10 | 100 | 10 | 9.8 | 98 | 2 | 70-130 | 20 |
| 1,2,3-Trichlorobenzene | 10 | 9.4 | 94 | 10 | 9.2 | 92 | 2 | 70-130 | 20 |
| 1,2,4-Trichlorobenzene | 10 | 9.5 | 95 | 10 | 9.2 | 92 | 3 | 70-130 | 20 |
| Methyl Acetate | 10 | 9.9 | 99 | 10 | 8.7 | 87 | 13 | 70-130 | 20 |
| Cyclohexane | 10 | 10 | 100 | 10 | 9.5 | 95 | 5 | 70-130 | 20 |
| Freon-113 | 10 | 12 | 120 | 10 | 11 | 110 | 9 | 70-130 | 20 |
| Methyl cyclohexane | 10 | 9.7 | 97 | 10 | 8.9 | 89 | 9 | 70-130 | 20 |

# Method Blank Summary
# Form 4
# Volatiles

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Lab Sample ID** | : WG2012422-5 | **Lab File ID** | : V05241220B05 |
| **Instrument ID** | : VOA105 | | |
| **Matrix** | : WATER | **Analysis Date** | : 12/20/24 11:11 |

| Client Sample No. | Lab Sample ID | Analysis Date |
|---|---|---|
| WG2012422-3LCS | WG2012422-3 | 12/20/24 09:54 |
| WG2012422-4LCSD | WG2012422-4 | 12/20/24 10:20 |
| MW-4S | L2474329-01 | 12/20/24 18:25 |
| MW-4D2 | L2474329-02 | 12/20/24 18:51 |

# Method Blank Summary
# Form 4
# Volatiles

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Lab Sample ID** | : WG2012561-5 | **Lab File ID** | : V01241221A05 |
| **Instrument ID** | : VOA101 | | |
| **Matrix** | : WATER | **Analysis Date** | : 12/21/24 06:51 |

| Client Sample No. | Lab Sample ID | Analysis Date |
|---|---|---|
| WG2012561-3LCS | WG2012561-3 | 12/21/24 05:08 |
| WG2012561-4LCSD | WG2012561-4 | 12/21/24 05:33 |
| MW-12S | L2474329-03 | 12/21/24 12:54 |
| MW-12D | L2474329-04 | 12/21/24 13:20 |
| EB-12162024 | L2474329-05 | 12/21/24 13:46 |
| TB-12162024 | L2474329-06 | 12/21/24 14:12 |

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

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Instrument ID** | **: VOA105** | **Analysis Date** | **: 11/06/24 03:09** |
| **Tune Standard** | **: WG1993889-1** | **Tune File ID** | **: V05241106ABF1_tune** |

| m/e | Ion Abundance Criteria | %Relative Abundance |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 28.8 |
| 75 | 30.0 - 80.0% of mass 95 | 51.9 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.8 |
| 173 | Less than 2.0% of mass 174 | 0.5 (.6 )1 |
| 174 | Greater than 50.0% of mass 95 | 74.2 |
| 175 | 5.0 - 9.0% of mass 174 | 5.9 (8 )1 |
| 176 | Greater than 95.0% but less than 101% of mass | 72.5 (97.7)1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.8 (6.6 )2 |

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

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

| Client Sample ID | Lab Sample ID | File ID | Analysis Date/Time |
|---|---|---|---|
| STD0.19PPB | R1896728-1 | V05241106A03 | 11/06/24 04:25 |
| STD0.5PPB | R1896728-2 | V05241106A05 | 11/06/24 05:16 |
| STD2PPB | R1896728-3 | V05241106A07 | 11/06/24 06:07 |
| STD10PPB | R1896728-4 | V05241106A09 | 11/06/24 06:58 |
| STD30PPB | R1896728-7 | V05241106A10 | 11/06/24 07:24 |
| STD80PPB | R1896728-6 | V05241106A11 | 11/06/24 07:49 |
| STD120PPB | R1896728-5 | V05241106A12 | 11/06/24 08:14 |
| STD200PPB | R1896728-8 | V05241106A13 | 11/06/24 08:40 |
| Correlation Data Summary | R1896728-9 | V05241106A18 | 11/06/24 10:47 |
| ICV Quant Report | R1896728-9 | V05241106A18 | 11/06/24 10:47 |

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

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Instrument ID** | **: VOA105** | **Analysis Date** | **: 12/20/24 09:15** |
| **Tune Standard** | **: WG2012422-1** | **Tune File ID** | **: V05241220BBF1_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 | 53.2 |
| 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 | 0.6 (.7 )1 |
| 174 | Greater than 50.0% of mass 95 | 80.9 |
| 175 | 5.0 - 9.0% of mass 174 | 6.3 (7.7 )1 |
| 176 | Greater than 95.0% but less than 101% of mass | 81.5 (100.)1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.3 (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 |
|---|---|---|---|
| WG2012422-2CCAL | WG2012422-2 | V05241220B02 | 12/20/24 09:54 |
| WG2012422-3LCS | WG2012422-3 | V05241220B02 | 12/20/24 09:54 |
| WG2012422-4LCSD | WG2012422-4 | V05241220B03 | 12/20/24 10:20 |
| WG2012422-5BLANK | WG2012422-5 | V05241220B05 | 12/20/24 11:11 |
| MW-4S | L2474329-01 | V05241220B22 | 12/20/24 18:25 |
| MW-4D2 | L2474329-02 | V05241220B23 | 12/20/24 18:51 |

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

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Instrument ID** | : VOA101 | **Analysis Date** | : 12/06/24 23:17 |
| **Tune Standard** | : WG2006865-1 | **Tune File ID** | : V01241206NBF1_tune |

| m/e | Ion Abundance Criteria | %Relative Abundance |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 23.5 |
| 75 | 30.0 - 80.0% of mass 95 | 49.6 |
| 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 (0 )1 |
| 174 | Greater than 50.0% of mass 95 | 68.8 |
| 175 | 5.0 - 9.0% of mass 174 | 5.2 (7.6 )1 |
| 176 | Greater than 95.0% but less than 101% of mass | 68.3 (99.3)1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.4 (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 |
|---|---|---|---|
| STD0.19PPB | R1909137-1 | V01241206N03 | 12/07/24 00:30 |
| STD0.5PPB | R1909137-2 | V01241206N05 | 12/07/24 01:22 |
| STD2PPB | R1909137-3 | V01241206N07 | 12/07/24 02:14 |
| STD10PPB | R1909137-4 | V01241206N09 | 12/07/24 03:06 |
| STD30PPB | R1909137-5 | V01241206N10 | 12/07/24 03:32 |
| STD80PPB | R1909137-6 | V01241206N11 | 12/07/24 03:57 |
| STD120PPB | R1909137-7 | V01241206N12 | 12/07/24 04:23 |
| STD200PPB | R1909137-8 | V01241206N13 | 12/07/24 04:49 |
| Correlation Data Summary | R1909137-9 | V01241206N18 | 12/07/24 06:58 |
| ICV Quant Report | R1909137-9 | V01241206N18 | 12/07/24 06:58 |

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

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : VOA101 | Analysis Date | : 12/21/24 04:53 |
| Tune Standard | : WG2012561-1 | Tune File ID | : V01241221ABF1_tune |

| m/e | Ion Abundance Criteria | %Relative Abundance |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 26.9 |
| 75 | 30.0 - 80.0% of mass 95 | 51.8 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 7 |
| 173 | Less than 2.0% of mass 174 | 0.5 (.8 )1 |
| 174 | Greater than 50.0% of mass 95 | 67.7 |
| 175 | 5.0 - 9.0% of mass 174 | 5 (7.5 )1 |
| 176 | Greater than 95.0% but less than 101% of mass | 66.5 (98.2)1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.3 (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 |
|---|---|---|---|
| WG2012561-2CCAL | WG2012561-2 | V01241221A01 | 12/21/24 05:08 |
| WG2012561-3LCS | WG2012561-3 | V01241221A01 | 12/21/24 05:08 |
| WG2012561-4LCSD | WG2012561-4 | V01241221A02 | 12/21/24 05:33 |
| WG2012561-5BLANK | WG2012561-5 | V01241221A05 | 12/21/24 06:51 |
| MW-12S | L2474329-03 | V01241221A19 | 12/21/24 12:54 |
| MW-12D | L2474329-04 | V01241221A20 | 12/21/24 13:20 |
| EB-12162024 | L2474329-05 | V01241221A21 | 12/21/24 13:46 |
| TB-12162024 | L2474329-06 | V01241221A22 | 12/21/24 14:12 |

# Internal Standard Area and RT Summary
# Form 8a
# Volatiles

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Instrument ID** | **: VOA105** | **Analysis Date** | **: 12/20/24 09:54:00** |
| **Sample No** | **: WG2012422-2** | **Lab File ID** | **: V05241220B02** |

| | Fluorobenzene (IS) | | Chlorobenzene-d5 | | 1,4-Dichlorobenzene-D4 | |
|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT |
| WG2012422-2 | 432025 | 5.66 | 336874 | 9.15 | 194778 | 11.92 |
| Upper Limit | 864050 | 6.16 | 673748 | 9.65 | 389556 | 12.42 |
| Lower Limit | 216013 | 5.16 | 168437 | 8.65 | 97389 | 11.42 |
| Sample ID | | | | | | |
| WG2012422-3 LCS | 432025 | 5.66 | 336874 | 9.15 | 194778 | 11.92 |
| WG2012422-4 LCSD | 435344 | 5.66 | 336696 | 9.15 | 194874 | 11.92 |
| WG2012422-5 BLANK | 401661 | 5.66 | 321741 | 9.15 | 175683 | 11.92 |
| MW-4S | 408030 | 5.66 | 322730 | 9.15 | 177714 | 11.92 |
| MW-4D2 | 396037 | 5.66 | 314318 | 9.15 | 173088 | 11.92 |

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 | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Instrument ID** | : VOA101 | **Analysis Date** | : 12/21/24 05:08:00 |
| **Sample No** | : WG2012561-2 | **Lab File ID** | : V01241221A01 |

| | Fluorobenzene (IS) | | Chlorobenzene-d5 | | 1,4-Dichlorobenzene-D4 | |
|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT |
| WG2012561-2 | 209706 | 5.90 | 164101 | 9.41 | 88109 | 12.14 |
| Upper Limit | 419412 | 6.40 | 328202 | 9.91 | 176218 | 12.64 |
| Lower Limit | 104853 | 5.40 | 82051 | 8.91 | 44055 | 11.64 |
| Sample ID | | | | | | |
| WG2012561-3 LCS | 209706 | 5.90 | 164101 | 9.41 | 88109 | 12.14 |
| WG2012561-4 LCSD | 208721 | 5.90 | 162560 | 9.41 | 86018 | 12.14 |
| WG2012561-5 BLANK | 194153 | 5.90 | 146955 | 9.41 | 69525 | 12.14 |
| MW-12S | 164533 | 5.90 | 125206 | 9.41 | 59626 | 12.15 |
| MW-12D | 164602 | 5.90 | 123153 | 9.42 | 58870 | 12.14 |
| EB-12162024 | 158951 | 5.90 | 123561 | 9.41 | 57596 | 12.15 |
| TB-12162024 | 159688 | 5.90 | 122418 | 9.42 | 57039 | 12.15 |

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:** PM14094-1
**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 **the laboratory.***

**Date Created:** 03/15/23
**Created By:** Jason Hebert
**File:** PM14094-1
**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)*
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**Date Created:** 03/15/23
**Created By:** Jason Hebert
**File:** PM14095-1
**Page:** 1

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

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

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

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

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

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

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

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

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

# Volatiles Sample Data

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-01 | Date Collected | : 12/16/24 11:00 |
| Client ID | : MW-4S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/20/24 18:25 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : PID |
| Lab File ID | : V05241220B22 | 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 |

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

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-01 | Date Collected | : 12/16/24 11:00 |
| Client ID | : MW-4S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/20/24 18:25 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : PID |
| Lab File ID | : V05241220B22 | 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 |

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

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-01 | Date Collected | : 12/16/24 11:00 |
| Client ID | : MW-4S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/20/24 18:25 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : PID |
| Lab File ID | : V05241220B22 | 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 Results | ug/L RL | ug/L MDL | Qualifier |
|---|---|---|---|---|---|
| 76-13-1 | Freon-113 | ND | 2.5 | 0.70 | U |
| 108-87-2 | Methyl cyclohexane | ND | 10 | 0.40 | U |

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-02** | **Date Collected** | **: 12/16/24 11:50** |
| **Client ID** | **: MW-4D2** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/20/24 18:51** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 1,8260D** | **Analyst** | **: PID** |
| **Lab File ID** | **: V05241220B23** | **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 | Results (ug/L) | RL (ug/L) | MDL (ug/L) | Qualifier |
|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | 0.18 | U |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U |

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-02 | Date Collected | : 12/16/24 11:50 |
| Client ID | : MW-4D2 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/20/24 18:51 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : PID |
| Lab File ID | : V05241220B23 | 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 |

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

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-02** | **Date Collected** | **: 12/16/24 11:50** |
| **Client ID** | **: MW-4D2** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/20/24 18:51** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 1,8260D** | **Analyst** | **: PID** |
| **Lab File ID** | **: V05241220B23** | **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** |

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

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-03 | Date Collected | : 12/16/24 08:45 |
| Client ID | : MW-12S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 12:54 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MJV |
| Lab File ID | : V01241221A19 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

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

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-03 | Date Collected | : 12/16/24 08:45 |
| Client ID | : MW-12S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 12:54 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MJV |
| Lab File ID | : V01241221A19 | Instrument ID | : VOA101 |
| 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 Results | RL | MDL | Qualifier |
|---|---|---|---|---|---|
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 79-01-6 | Trichloroethene | ND | 0.50 | 0.18 | U |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.17 | U |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U |
| 1330-20-7 | Xylenes, Total | ND | 2.5 | 0.70 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | ND | 5.0 | 1.5 | U |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 79-20-9 | Methyl Acetate | ND | 2.0 | 0.23 | U |
| 110-82-7 | Cyclohexane | ND | 10 | 0.27 | U |

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-03 | Date Collected | : 12/16/24 08:45 |
| Client ID | : MW-12S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 12:54 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MJV |
| Lab File ID | : V01241221A19 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

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

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-04 | Date Collected | : 12/16/24 09:33 |
| Client ID | : MW-12D | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 13:20 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MJV |
| Lab File ID | : V01241221A20 | Instrument ID | : VOA101 |
| 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 | Results (ug/L) | RL (ug/L) | MDL (ug/L) | Qualifier |
|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | 3.4 | 2.5 | 0.70 | |
| 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 | 0.23 | 0.50 | 0.18 | J |
| 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 | 4.8 | 2.5 | 0.70 | |
| 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 | 4.9 | 0.50 | 0.17 | |

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-04 | Date Collected | : 12/16/24 09:33 |
| Client ID | : MW-12D | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 13:20 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MJV |
| Lab File ID | : V01241221A20 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

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

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Lab ID** | : L2474329-04 | **Date Collected** | : 12/16/24 09:33 |
| **Client ID** | : MW-12D | **Date Received** | : 12/17/24 |
| **Sample Location** | : 416 MILLER PLACE-YAPHANK ROAD | **Date Analyzed** | : 12/21/24 13:20 |
| **Sample Matrix** | : WATER | **Dilution Factor** | : 1 |
| **Analytical Method** | : 1,8260D | **Analyst** | : MJV |
| **Lab File ID** | : V01241221A20 | **Instrument ID** | : VOA101 |
| **Sample Amount** | : 10 ml | **GC Column** | : RTX-502.2 |
| **Level** | : LOW | **%Solids** | : N/A |
| **Extract Volume (MeOH)** | : N/A | **Injection Volume** | : N/A |

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

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-05** | **Date Collected** | **: 12/16/24 12:00** |
| **Client ID** | **: EB-12162024** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/21/24 13:46** |
| **Sample Matrix** | **: Equipment Blank** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 1,8260D** | **Analyst** | **: MJV** |
| **Lab File ID** | **: V01241221A21** | **Instrument ID** | **: VOA101** |
| **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 Results | ug/L RL | ug/L MDL | Qualifier |
|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | 0.18 | U |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U |

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-05 | Date Collected | : 12/16/24 12:00 |
| Client ID | : EB-12162024 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 13:46 |
| Sample Matrix | : Equipment Blank | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MJV |
| Lab File ID | : V01241221A21 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

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

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-05 | Date Collected | : 12/16/24 12:00 |
| Client ID | : EB-12162024 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 13:46 |
| Sample Matrix | : Equipment Blank | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MJV |
| Lab File ID | : V01241221A21 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

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

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-06 | Date Collected | : 12/16/24 12:10 |
| Client ID | : TB-12162024 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 14:12 |
| Sample Matrix | : Trip Blank (aqueous) | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MJV |
| Lab File ID | : V01241221A22 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

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

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-06 | Date Collected | : 12/16/24 12:10 |
| Client ID | : TB-12162024 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 14:12 |
| Sample Matrix | : Trip Blank (aqueous) | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MJV |
| Lab File ID | : V01241221A22 | Instrument ID | : VOA101 |
| 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 Results | ug/L RL | ug/L MDL | Qualifier |
|---|---|---|---|---|---|
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 79-01-6 | Trichloroethene | ND | 0.50 | 0.18 | U |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.17 | U |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U |
| 1330-20-7 | Xylenes, Total | ND | 2.5 | 0.70 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | ND | 5.0 | 1.5 | U |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 79-20-9 | Methyl Acetate | ND | 2.0 | 0.23 | U |
| 110-82-7 | Cyclohexane | ND | 10 | 0.27 | U |

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-06 | Date Collected | : 12/16/24 12:10 |
| Client ID | : TB-12162024 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 14:12 |
| Sample Matrix | : Trip Blank (aqueous) | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : MJV |
| Lab File ID | : V01241221A22 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

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

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2012422-5 | Date Collected | : NA |
| Client ID | : WG2012422-5BLANK | Date Received | : NA |
| Sample Location | : | Date Analyzed | : 12/20/24 11:11 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : PID |
| Lab File ID | : V05241220B05 | 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 Results | RL | MDL | Qualifier |
|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | 0.18 | U |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U |

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2012422-5 | Date Collected | : NA |
| Client ID | : WG2012422-5BLANK | Date Received | : NA |
| Sample Location | : | Date Analyzed | : 12/20/24 11:11 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : PID |
| Lab File ID | : V05241220B05 | 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 |

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

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2012422-5 | Date Collected | : NA |
| Client ID | : WG2012422-5BLANK | Date Received | : NA |
| Sample Location | : | Date Analyzed | : 12/20/24 11:11 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : PID |
| Lab File ID | : V05241220B05 | 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 |

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

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | | | |
|---|---|---|---|---|---|
| Client | : | Roux Env. Eng. & Geology, DPC | Lab Number | : | L2474329 |
| Project Name | : | CORAM MATERIALS | Project Number | : | 2232.0006Y005 |
| Lab ID | : | WG2012561-5 | Date Collected | : | NA |
| Client ID | : | WG2012561-5BLANK | Date Received | : | NA |
| Sample Location | : | | Date Analyzed | : | 12/21/24 06:51 |
| Sample Matrix | : | WATER | Dilution Factor | : | 1 |
| Analytical Method | : | 1,8260D | Analyst | : | PID |
| Lab File ID | : | V01241221A05 | Instrument ID | : | VOA101 |
| Sample Amount | : | 10 ml | GC Column | : | RTX-502.2 |
| Level | : | LOW | %Solids | : | N/A |
| Extract Volume (MeOH) | : | N/A | Injection Volume | : | N/A |

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

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | | | |
|---|---|---|---|---|---|
| Client | : | Roux Env. Eng. & Geology, DPC | Lab Number | : | L2474329 |
| Project Name | : | CORAM MATERIALS | Project Number | : | 2232.0006Y005 |
| Lab ID | : | WG2012561-5 | Date Collected | : | NA |
| Client ID | : | WG2012561-5BLANK | Date Received | : | NA |
| Sample Location | : | | Date Analyzed | : | 12/21/24 06:51 |
| Sample Matrix | : | WATER | Dilution Factor | : | 1 |
| Analytical Method | : | 1,8260D | Analyst | : | PID |
| Lab File ID | : | V01241221A05 | Instrument ID | : | VOA101 |
| 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 Results | RL | MDL | Qualifier |
|---|---|---|---|---|---|
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 79-01-6 | Trichloroethene | ND | 0.50 | 0.18 | U |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.17 | U |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U |
| 1330-20-7 | Xylenes, Total | ND | 2.5 | 0.70 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | ND | 5.0 | 1.5 | U |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 79-20-9 | Methyl Acetate | ND | 2.0 | 0.23 | U |
| 110-82-7 | Cyclohexane | ND | 10 | 0.27 | U |

# Results Summary
# Form 1
# Volatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2012561-5 | Date Collected | : NA |
| Client ID | : WG2012561-5BLANK | Date Received | : NA |
| Sample Location | : | Date Analyzed | : 12/21/24 06:51 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260D | Analyst | : PID |
| Lab File ID | : V01241221A05 | Instrument ID | : VOA101 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

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

Quantitation Report (QT Reviewed)

```
Data Path : K:\VOA105\2024\241220B\
Data File : V05241220B22.D
Acq On    : 20 Dec 2024   6:25 pm
Operator  : VOA105:PID
Sample    : L2474329-01,31,10,10,,A
Misc      : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 22   Sample Multiplier: 1

Quant Time: Dec 22 12:35:23 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241220B\V05241220B02.D
Sub List     : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 -------------------------------------------------------------------------------
 Internal Standards
 1) Fluorobenzene               5.655   96    408030    10.000 ug/L     0.00
   Standard Area 1 = 432025                Recovery   =   94.45%
59) Chlorobenzene-d5            9.147  117    322730    10.000 ug/L     0.00
   Standard Area 1 = 336874                Recovery   =   95.80%
79) 1,4-Dichlorobenzene-d4     11.920  152    177714    10.000 ug/L     0.00
   Standard Area 1 = 194778                Recovery   =   91.24%

 System Monitoring Compounds
36) Dibromofluoromethane        4.872  113    117137    11.141 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =  111.41%
43) 1,2-Dichloroethane-d4       5.381   65    143600    10.361 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =  103.61%
60) Toluene-d8                  7.318   98    399474     9.875 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =   98.75%
83) 4-Bromofluorobenzene       10.675   95    151503     9.372 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =   93.72%

 Target Compounds                                                   Qvalue
 2) Dichlorodifluoromethane     0.000               0       N.D.
 3) Chloromethane               0.000               0       N.D.
 4) Vinyl chloride              0.000               0       N.D.
 5) Bromomethane                2.007   94        272      0.344 ug/L #    37
 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            2.721   76        207       N.D.
12) Freon-113                   0.000               0       N.D.
15) Methylene chloride          0.000               0       N.D.
17) Acetone                     3.298   43       1275      0.452 ug/L #    61
18) trans-1,2-Dichloroethene    0.000               0       N.D.
19) Methyl acetate              3.356   43        197       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                  4.706   83       1695      0.098 ug/L #    84
34) Carbon tetrachloride        0.000               0       N.D.
```

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241220B\
Data File : V05241220B22.D
Acq On : 20 Dec 2024 6:25 pm
Operator : VOA105:PID
Sample : L2474329-01,31,10,10,,A
Misc : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 22 12:35:23 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241220B\V05241220B02.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 | 5.019 | 43 | 3786 | 0.866 ug/L # | 18 |
| 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 | 7.807 | 166 | 136 | 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 | 9.147 | 91 | 436 | 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. | |

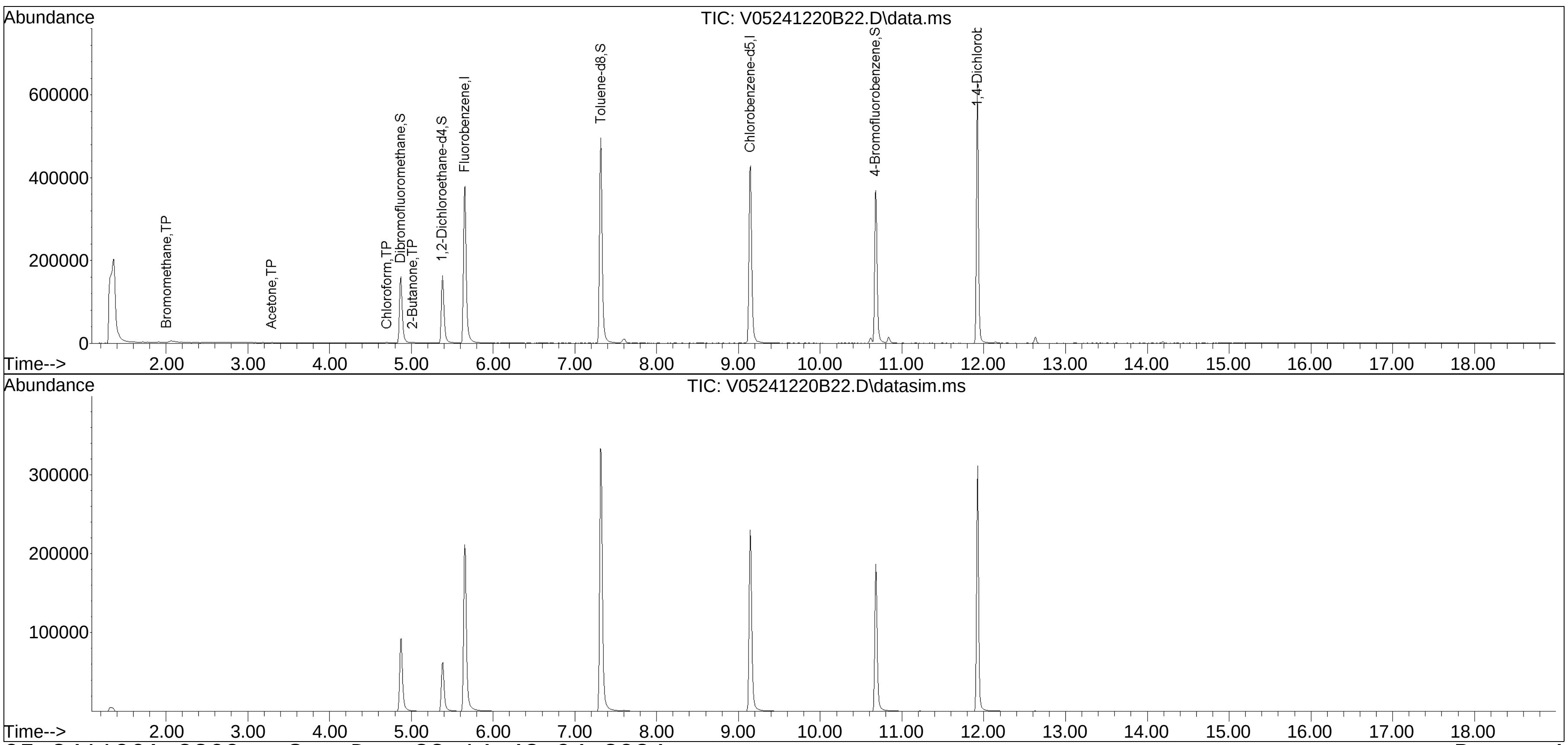
(#) = qualifier out of range (m) = manual integration (+) = signals summed

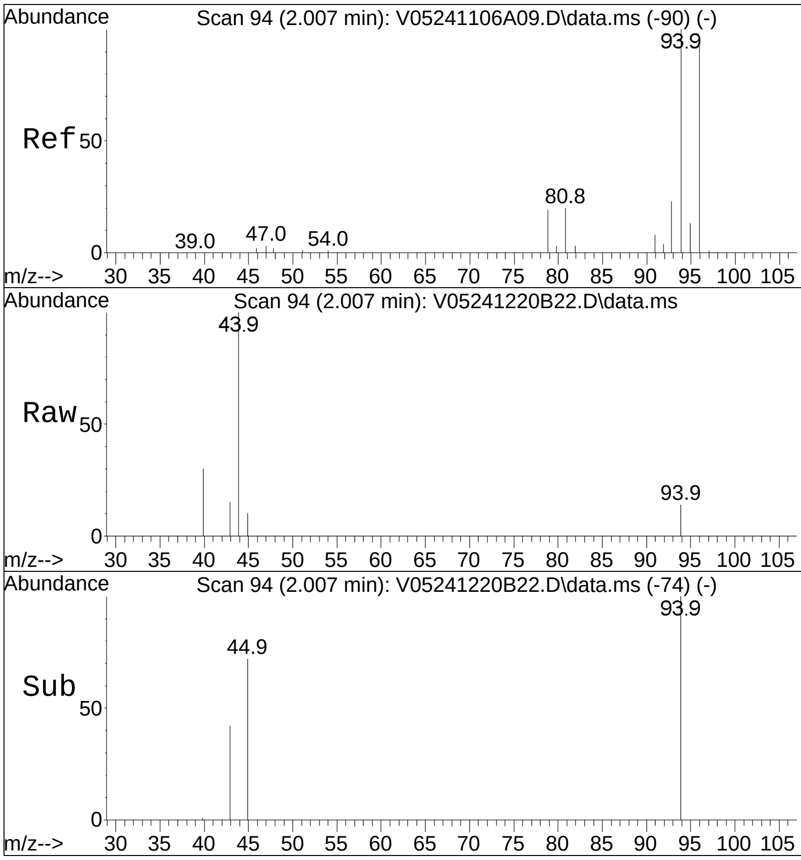
Quantitation Report    (QT Reviewed)

Data Path : K:\VOA105\2024\241220B\
Data File : V05241220B22.D
Acq On    : 20 Dec 2024   6:25 pm
Operator  : VOA105:PID
Sample    : L2474329-01,31,10,10,,A
Misc      : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 22   Sample Multiplier: 1

Quant Time: Dec 22 12:35:23 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

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

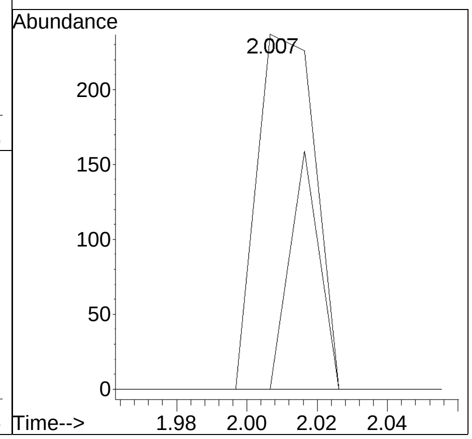


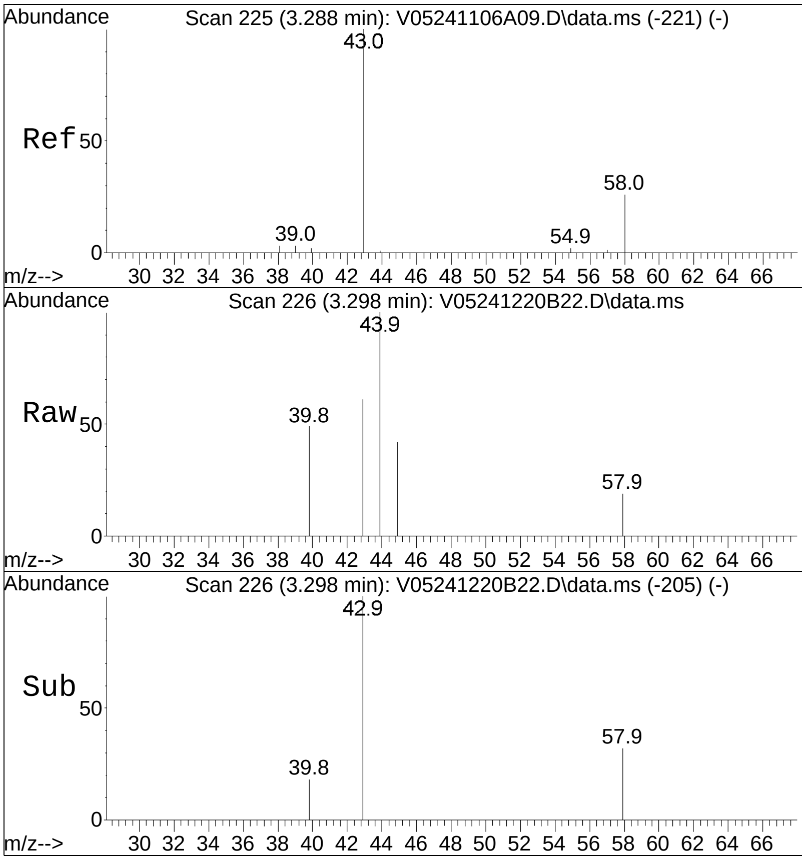



#5
Bromomethane
Concen: 0.34 ug/L
RT: 2.007 min Scan# 94
Delta R.T. -0.000 min
Lab File: V05241220B22.D
Acq: 20 Dec 2024 6:25 pm

Tgt Ion: 94 Resp: 272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 34.2 | 75.4 | 115.4# |

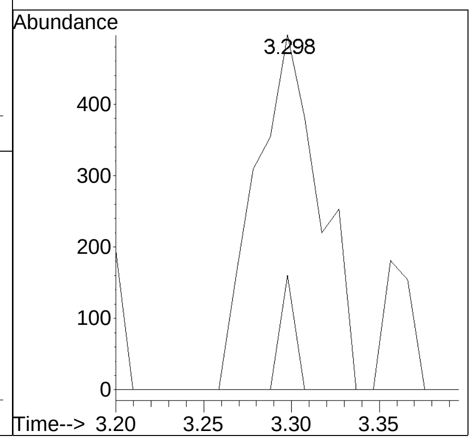


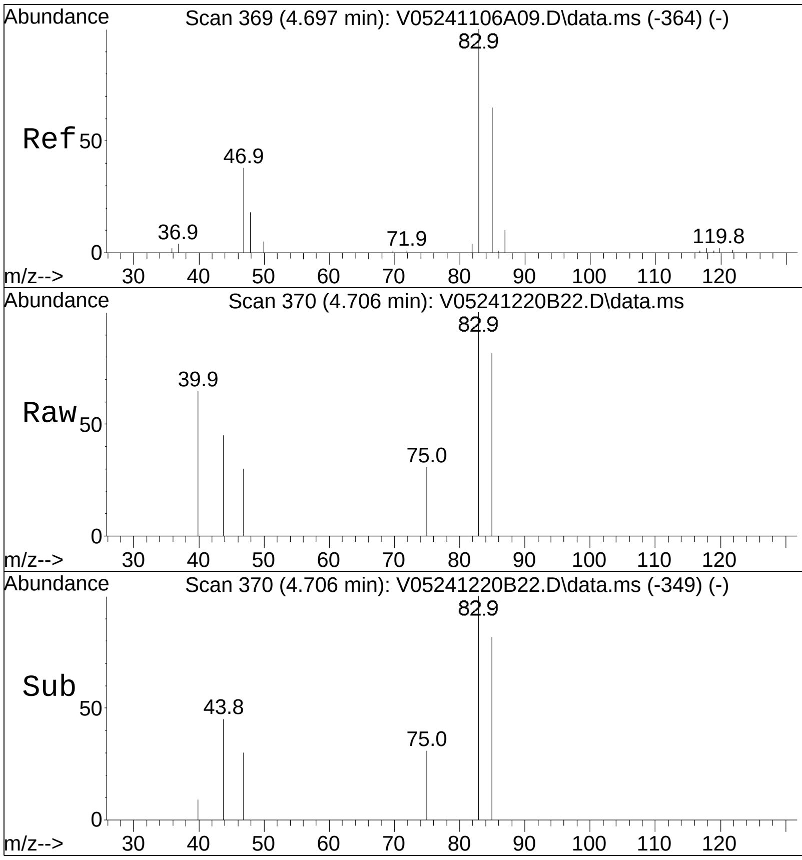



#17
Acetone
Concen: 0.45 ug/L
RT: 3.298 min Scan# 226
Delta R.T. 0.010 min
Lab File: V05241220B22.D
Acq: 20 Dec 2024 6:25 pm

Tgt Ion: 43 Resp: 1275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 7.4 | 22.0 | 33.0# |

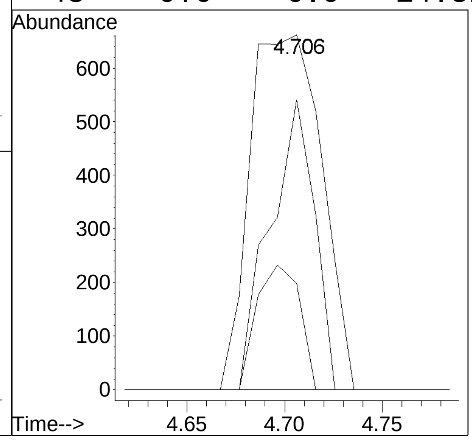


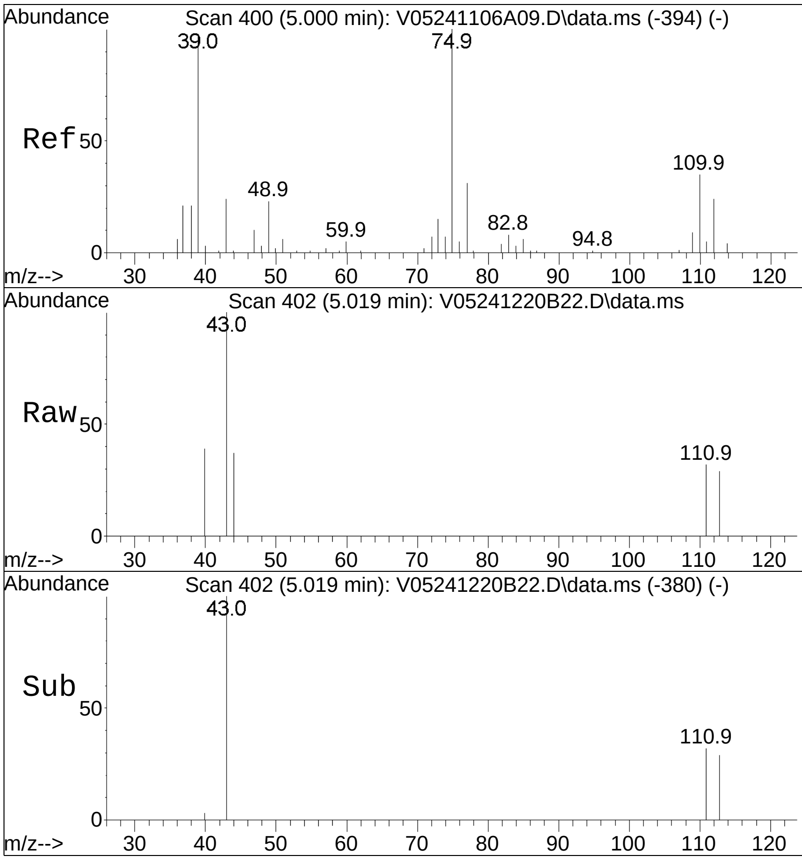



#32
Chloroform
Concen: 0.10 ug/L
RT: 4.706 min Scan# 370
Delta R.T. 0.009 min
Lab File: V05241220B22.D
Acq: 20 Dec 2024 6:25 pm

Tgt Ion: 83 Resp: 1695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 50.6 | 42.8 | 89.0 |
| 47 | 21.1 | 13.7 | 28.4 |
| 48 | 0.0 | 6.9 | 14.3# |

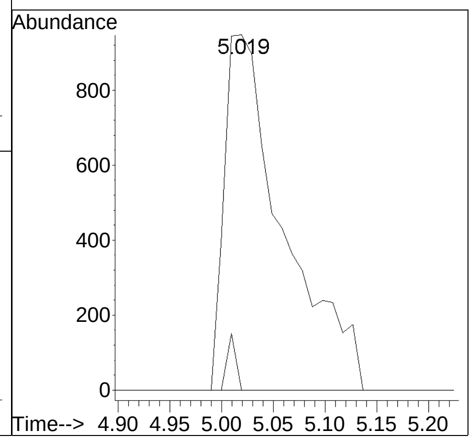





#39
2-Butanone
Concen: 0.87 ug/L
RT: 5.019 min Scan# 402
Delta R.T. 0.019 min
Lab File: V05241220B22.D
Acq: 20 Dec 2024 6:25 pm

Tgt Ion: 43 Resp: 3786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 2.4 | 55.6 | 83.4# |



Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA105\2024\241220B\ | QMethod | : V105_241106A_8260.m |
| Data File | : V05241220B22.D | Operator | : VOA105:PID |
| Date Inj'd | : 12/20/2024 6:25 pm | Instrument | : VOA105 |
| Sample | : L2474329-01,31,10,10,,A | Quant Date | : 12/22/2024 12:27 pm |

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

Quantitation Report    (QT Reviewed)

```
Data Path : K:\VOA105\2024\241220B\
Data File : V05241220B23.D
Acq On    : 20 Dec 2024   6:51 pm
Operator  : VOA105:PID
Sample    : L2474329-02,31,10,10,,A
Misc      : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 23   Sample Multiplier: 1

Quant Time: Dec 22 12:35:38 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241220B\V05241220B02.D
Sub List     : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 --------------------------------------------------------------------------
 Internal Standards
 1) Fluorobenzene                5.655   96    396037    10.000 ug/L     0.00
   Standard Area 1 = 432025                 Recovery   =   91.67%
59) Chlorobenzene-d5             9.147  117    314318    10.000 ug/L     0.00
   Standard Area 1 = 336874                 Recovery   =   93.30%
79) 1,4-Dichlorobenzene-d4      11.920  152    173088    10.000 ug/L     0.00
   Standard Area 1 = 194778                 Recovery   =   88.86%

 System Monitoring Compounds
36) Dibromofluoromethane         4.872  113    113721    11.144 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =  111.44%
43) 1,2-Dichloroethane-d4        5.381   65    141354    10.507 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =  105.07%
60) Toluene-d8                   7.318   98    386234     9.803 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   98.03%
83) 4-Bromofluorobenzene        10.676   95    145597     9.247 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   92.47%

 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                 2.007   94         139      0.303 ug/L     100
 6) Chloroethane                 2.144   64          89       N.D.
 7) Trichlorofluoromethane       0.000                0       N.D.
10) 1,1-Dichloroethene           0.000                0       N.D.
11) Carbon disulfide             2.721   76          93       N.D.
12) Freon-113                    0.000                0       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               0.000                0       N.D. d
20) Methyl tert-butyl ether      3.464   73         517       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                   4.706   83        6485      0.385 ug/L #    92
34) Carbon tetrachloride         0.000                0       N.D.
```

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241220B\
Data File : V05241220B23.D
Acq On : 20 Dec 2024 6:51 pm
Operator : VOA105:PID
Sample : L2474329-02,31,10,10,,A
Misc : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 22 12:35:38 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241220B\V05241220B02.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 | 5.019 | 43 | 3595 | 0.847 ug/L # | 28 |
| 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 | 5.802 | 95 | 191 | 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 | 7.816 | 166 | 824 | 0.075 ug/L # | 75 |
| 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 | 9.138 | 91 | 547 | 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. | |

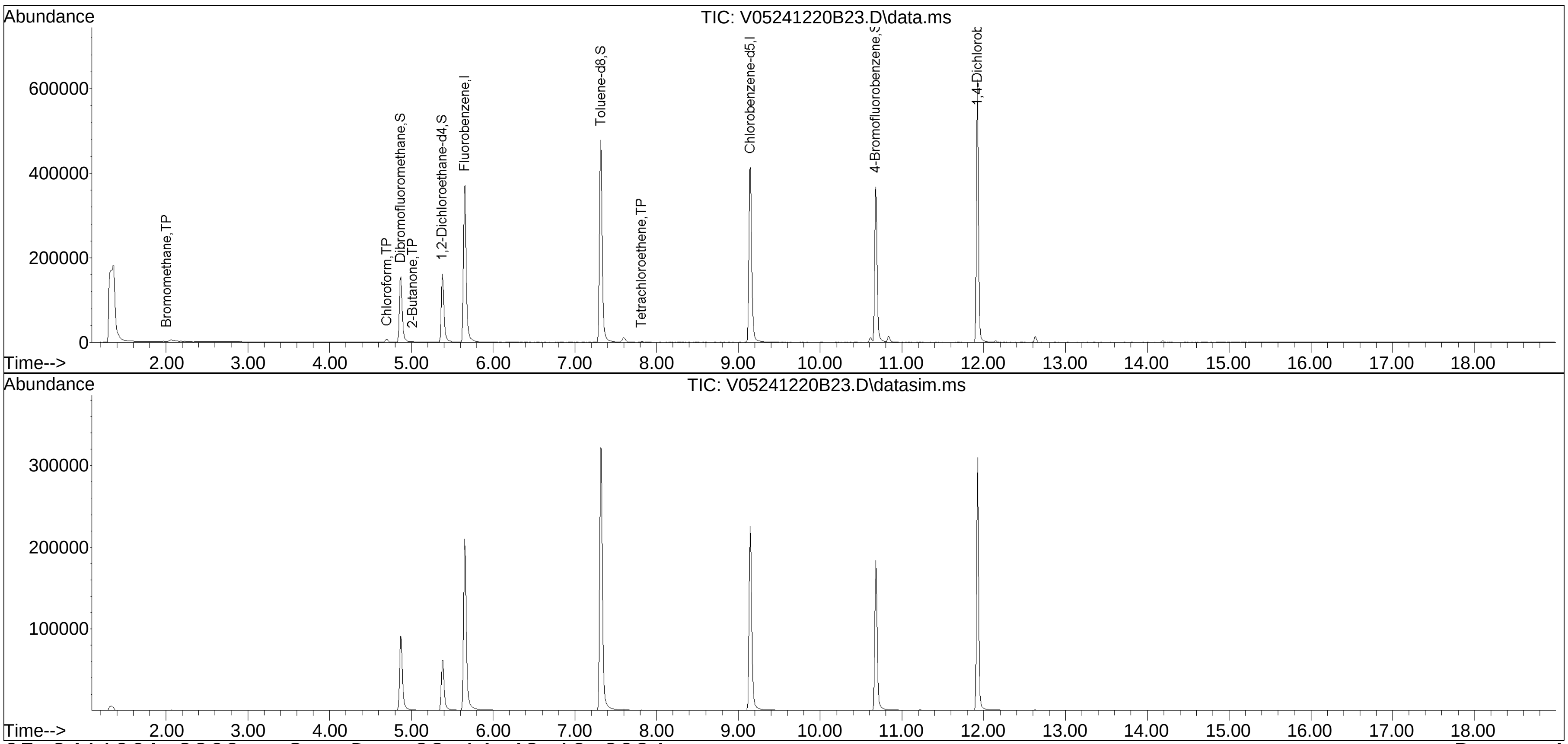
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

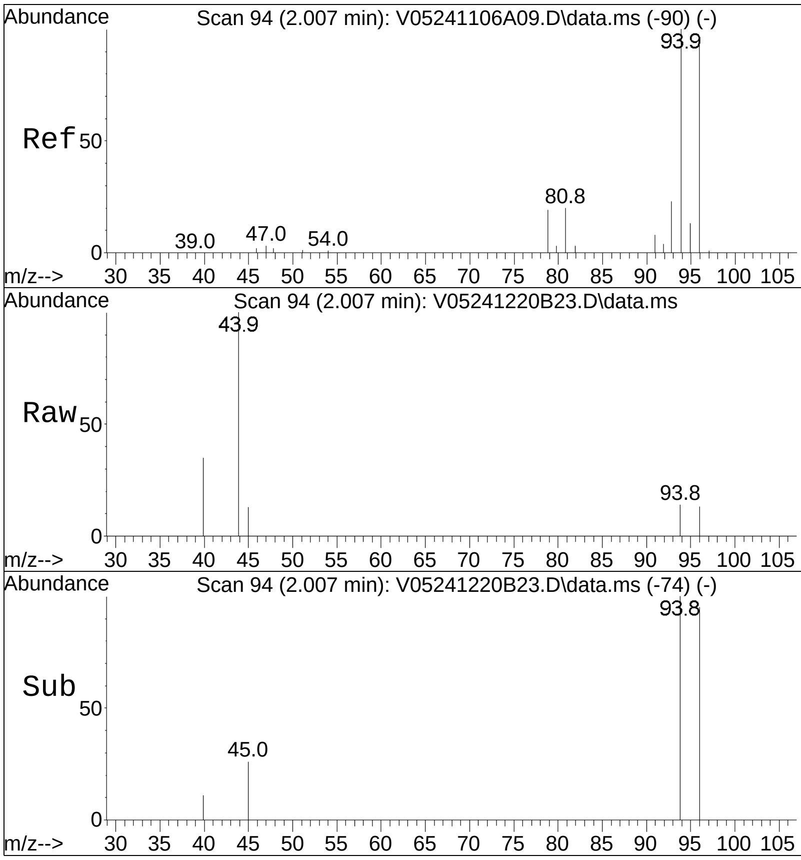
Data Path : K:\VOA105\2024\241220B\
Data File : V05241220B23.D
Acq On    : 20 Dec 2024   6:51 pm
Operator  : VOA105:PID
Sample    : L2474329-02,31,10,10,,A
Misc      : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 23   Sample Multiplier: 1

Quant Time: Dec 22 12:35:38 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

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



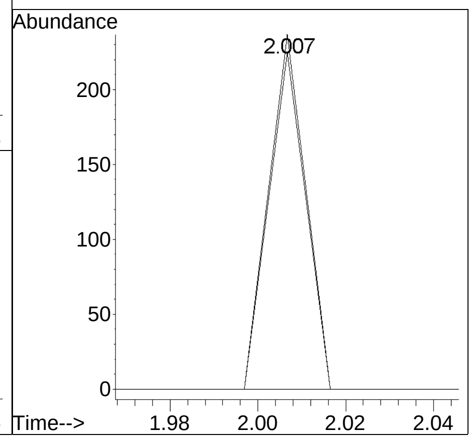

V105_241106A_8260.m Sun Dec 22 14:43:10 2024    Page: 4

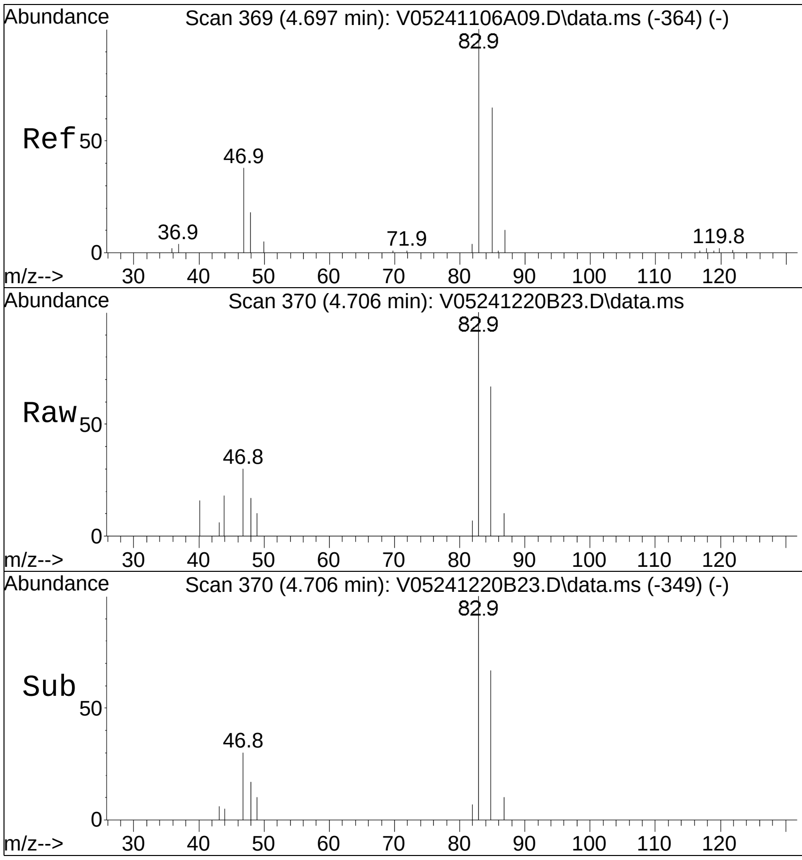



#5
Bromomethane
Concen: 0.30 ug/L
RT: 2.007 min Scan# 94
Delta R.T. -0.000 min
Lab File: V05241220B23.D
Acq: 20 Dec 2024 6:51 pm

Tgt Ion: 94 Resp: 139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.0 | 75.4 | 115.4 |

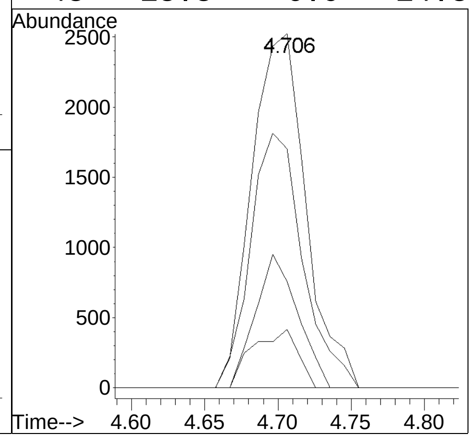


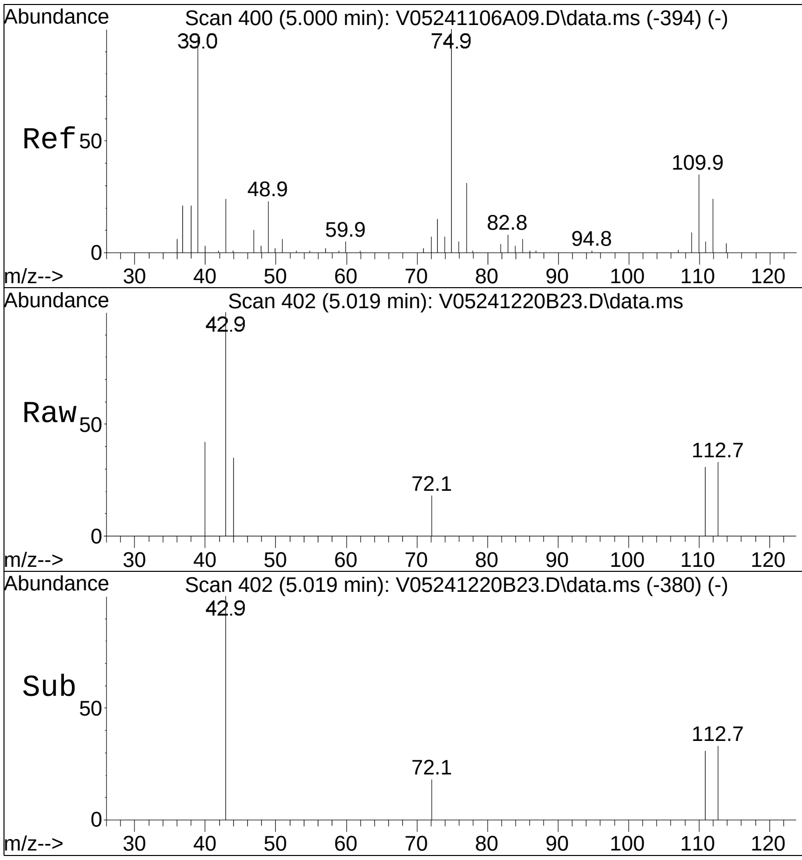



#32
Chloroform
Concen: 0.38 ug/L
RT: 4.706 min Scan# 370
Delta R.T. 0.009 min
Lab File: V05241220B23.D
Acq: 20 Dec 2024 6:51 pm

Tgt Ion: 83 Resp: 6485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 69.6 | 42.8 | 89.0 |
| 47 | 29.6 | 13.7 | 28.4# |
| 48 | 13.8 | 6.9 | 14.3 |

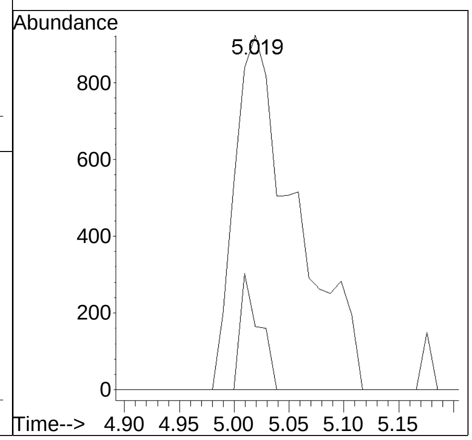


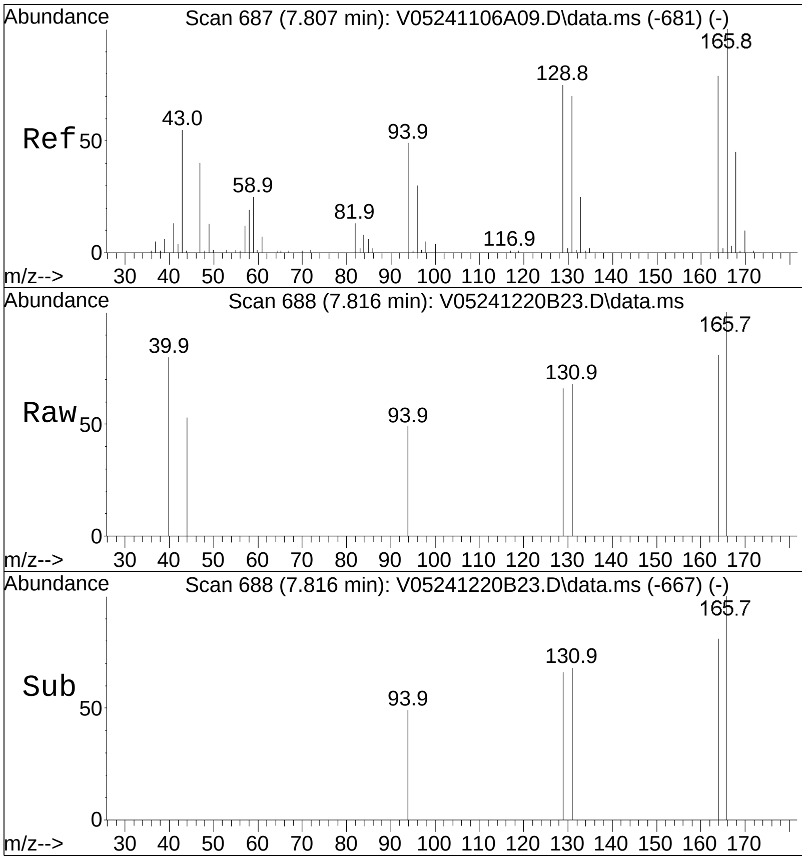



#39
2-Butanone
Concen:    0.85 ug/L
RT:   5.019 min  Scan# 402
Delta R.T.  0.019 min
Lab File:   V05241220B23.D
Acq: 20 Dec 2024   6:51 pm

Tgt Ion: 43 Resp:    3595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 10.3 | 55.6 | 83.4# |

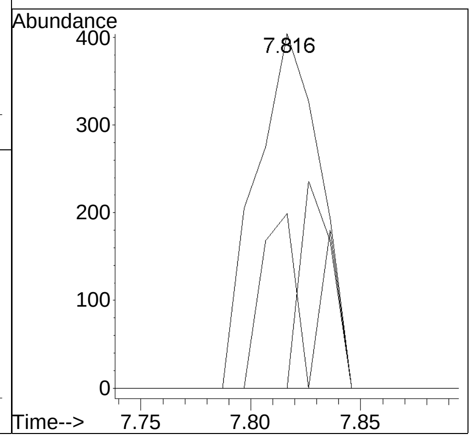





#63
Tetrachloroethene
Concen: 0.08 ug/L
RT: 7.816 min Scan# 688
Delta R.T. 0.009 min
Lab File: V05241220B23.D
Acq: 20 Dec 2024 6:51 pm

Tgt Ion:166 Resp: 824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 168 | 28.8 | 30.2 | 70.2# |
| 94 | 39.0 | 32.5 | 72.5 |



Manual Integration Report

```
Data Path   : K:\VOA105\2024\241220B\   QMethod     : V105_241106A_8260.m
Data File   : V05241220B23.D            Operator    : VOA105:PID
Date Inj'd  : 12/20/2024  6:51 pm       Instrument  : VOA105
Sample      : L2474329-02,31,10,10,,A   Quant Date  : 12/22/2024 12:27 pm
```

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

Quantitation Report (QT Reviewed)

```
Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A19.D
Acq On    : 21 Dec 2024  12:54 pm
Operator  : VOA101:MJV
Sample    : L2474329-03,31,10,10,,A
Misc      : WG2012561,ICAL21767
ALS Vial  : 19   Sample Multiplier: 1

Quant Time: Dec 23 06:26:51 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241221A\V01241221A01.D
Sub List     : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

       Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ------------------------------------------------------------------------
 Internal Standards
 1) Fluorobenzene               5.896   96    164533    10.000 ug/L     0.00
   Standard Area 1 = 209706               Recovery   =   78.46%
59) Chlorobenzene-d5            9.412  117    125206    10.000 ug/L     0.00
   Standard Area 1 = 164101               Recovery   =   76.30%
79) 1,4-Dichlorobenzene-d4     12.145  152     59626    10.000 ug/L     0.00
   Standard Area 1 = 88109               Recovery   =   67.67%

 System Monitoring Compounds
36) Dibromofluoromethane        5.098  113     42473     9.559 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   95.59%
43) 1,2-Dichloroethane-d4       5.620   65     50582    10.439 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =  104.39%
60) Toluene-d8                  7.578   98    161197    10.214 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =  102.14%
83) 4-Bromofluorobenzene       10.927   95     54365     9.821 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   98.21%

 Target Compounds                                                 Qvalue
 2) Dichlorodifluoromethane     0.000                0       N.D.
 3) Chloromethane               1.808   50          26       N.D.
 4) Vinyl chloride              0.000                0       N.D.
 5) Bromomethane                2.173   94         121       N.D.
 6) Chloroethane                2.301   64         159       N.D.
 7) Trichlorofluoromethane      0.000                0       N.D.
10) 1,1-Dichloroethene          0.000                0       N.D.
11) Carbon disulfide            2.921   76         456       N.D.
12) Freon-113                   0.000                0       N.D.
15) Methylene chloride          0.000                0       N.D.
17) Acetone                     3.501   43         724     Below Cal  #    42
18) trans-1,2-Dichloroethene    0.000                0       N.D.
19) Methyl acetate              3.534   43          65       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                  4.926   83         226       N.D.
34) Carbon tetrachloride        0.000                0       N.D.
```

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A19.D
Acq On : 21 Dec 2024 12:54 pm
Operator : VOA101:MJV
Sample : L2474329-03,31,10,10,,A
Misc : WG2012561,ICAL21767
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 23 06:26:51 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241221A\V01241221A01.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 | 5.227 | 43 | 28 | 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 | 9.407 | 91 | 28 | 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. | | |

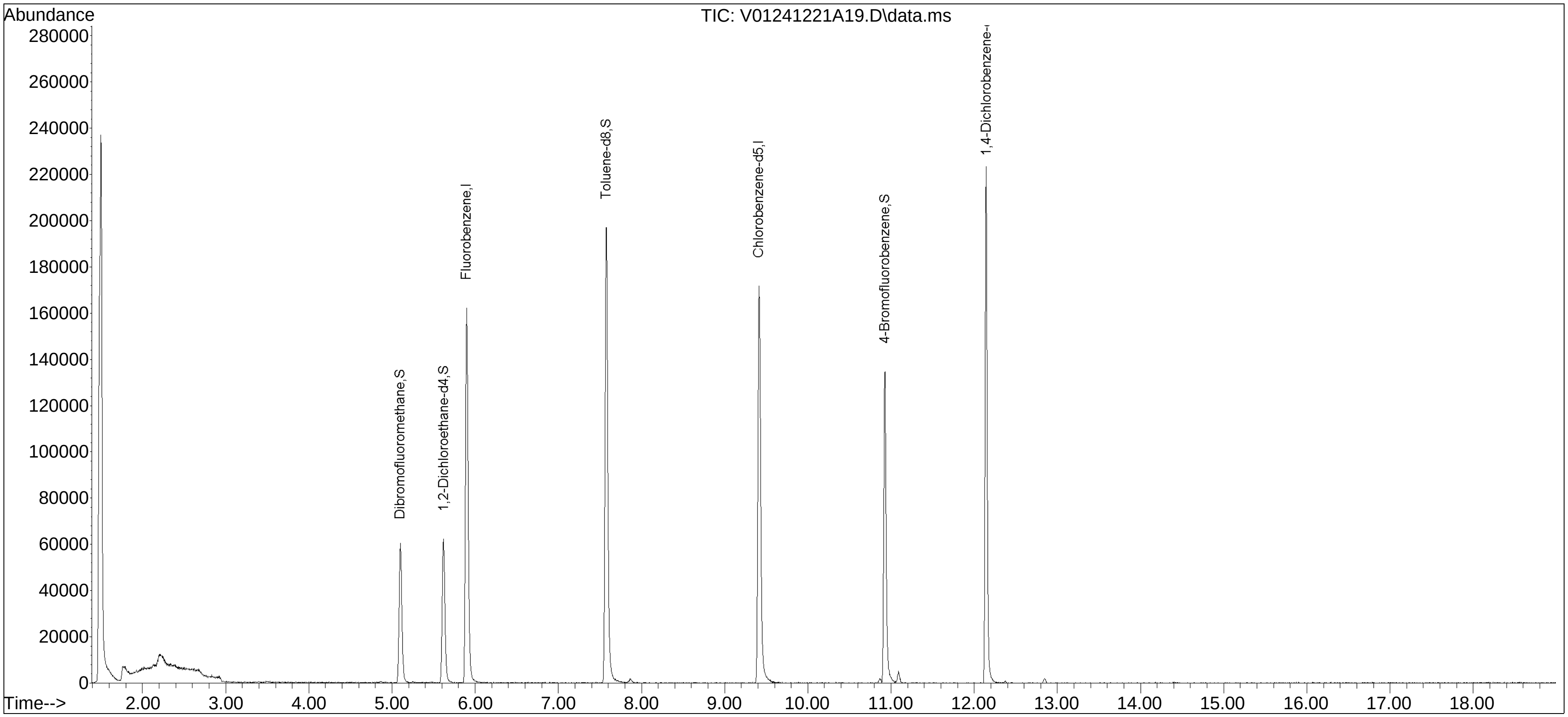
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A19.D
Acq On    : 21 Dec 2024  12:54 pm
Operator  : VOA101:MJV
Sample    : L2474329-03,31,10,10,,A
Misc      : WG2012561,ICAL21767
ALS Vial  : 19   Sample Multiplier: 1

Quant Time: Dec 23 06:26:51 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

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



Manual Integration Report

```
Data Path   : K:\VOA101\2024\241221A\   QMethod     : V101_241206N_8260.m
Data File   : V01241221A19.D            Operator    : VOA101:MJV
Date Inj'd  : 12/21/2024 12:54 pm       Instrument  : VOA 101
Sample      : L2474329-03,31,10,10,,A   Quant Date  : 12/23/2024  5:42 am
```

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A20.D
Acq On : 21 Dec 2024 1:20 pm
Operator : VOA101:MJV
Sample : L2474329-04,31,10,10,,A
Misc : WG2012561,ICAL21767
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 23 06:27:28 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241221A\V01241221A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) Fluorobenzene | 5.896 | 96 | 164602 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 209706 | | | Recovery = | 78.49% | |
| 59) Chlorobenzene-d5 | 9.415 | 117 | 123153 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 164101 | | | Recovery = | 75.05% | |
| 79) 1,4-Dichlorobenzene-d4 | 12.142 | 152 | 58870 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 88109 | | | Recovery = | 66.81% | |
| **System Monitoring Compounds** | | | | | |
| 36) Dibromofluoromethane | 5.104 | 113 | 42822 | 9.633 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 96.33% | |
| 43) 1,2-Dichloroethane-d4 | 5.614 | 65 | 49938 | 10.302 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 103.02% | |
| 60) Toluene-d8 | 7.575 | 98 | 158605 | 10.217 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 102.17% | |
| 83) 4-Bromofluorobenzene | 10.924 | 95 | 54367 | 9.947 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 99.47% | |

| Target Compounds | R.T. | QIon | Response | Conc Units | Qvalue |
|---|---|---|---|---|---|
| 2) Dichlorodifluoromethane | 0.000 | | 0 | N.D. | |
| 3) Chloromethane | 0.000 | | 0 | N.D. | |
| 4) Vinyl chloride | 0.000 | | 0 | N.D. | |
| 5) Bromomethane | 2.170 | 94 | 135 | N.D. | |
| 6) Chloroethane | 2.254 | 64 | 141 | N.D. | |
| 7) Trichlorofluoromethane | 0.000 | | 0 | N.D. | |
| 10) 1,1-Dichloroethene | 2.890 | 96 | 20222 | 4.900 ug/L # | 77 |
| 11) Carbon disulfide | 2.918 | 76 | 494 | N.D. | |
| 12) Freon-113 | 0.000 | | 0 | N.D. | |
| 15) Methylene chloride | 0.000 | | 0 | N.D. | |
| 17) Acetone | 3.481 | 43 | 31 | Below Cal # | 42 |
| 18) trans-1,2-Dichloroethene | 0.000 | | 0 | N.D. | |
| 19) Methyl acetate | 3.528 | 43 | 30 | N.D. | |
| 20) Methyl tert-butyl ether | 0.000 | | 0 | N.D. | |
| 23) 1,1-Dichloroethane | 4.150 | 63 | 26762 | 3.450 ug/L | 98 |
| 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 | 4.926 | 83 | 463 | N.D. | |
| 34) Carbon tetrachloride | 0.000 | | 0 | N.D. d | |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A20.D
Acq On : 21 Dec 2024 1:20 pm
Operator : VOA101:MJV
Sample : L2474329-04,31,10,10,,A
Misc : WG2012561,ICAL21767
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 23 06:27:28 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241221A\V01241221A01.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 | 5.118 | 97 | 31439 | 4.784 ug/L | 94 |
| 39) 2-Butanone | 0.000 | | 0 | N.D. 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. 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 | 8.082 | 166 | 943 | 0.227 ug/L # | 35 |
| 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 | 0.000 | | 0 | 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. | |

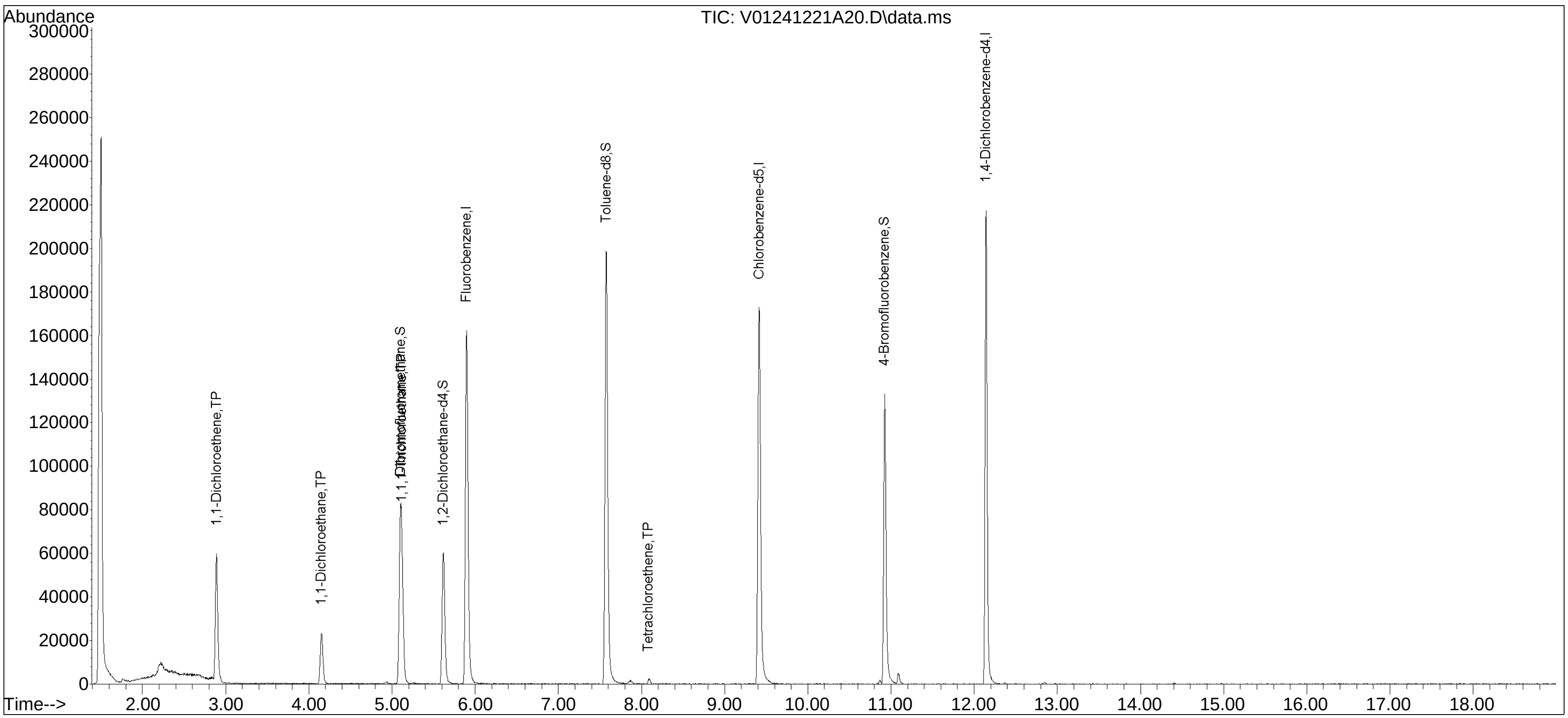
(#) = qualifier out of range (m) = manual integration (+) = signals summed

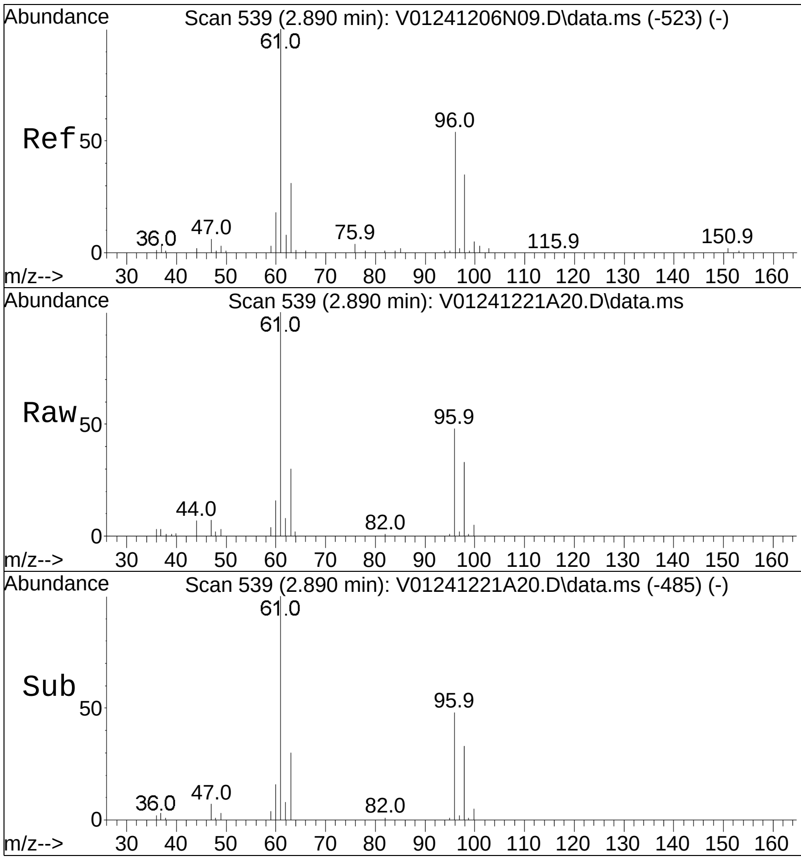
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A20.D
Acq On : 21 Dec 2024 1:20 pm
Operator : VOA101:MJV
Sample : L2474329-04,31,10,10,,A
Misc : WG2012561,ICAL21767
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 23 06:27:28 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

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

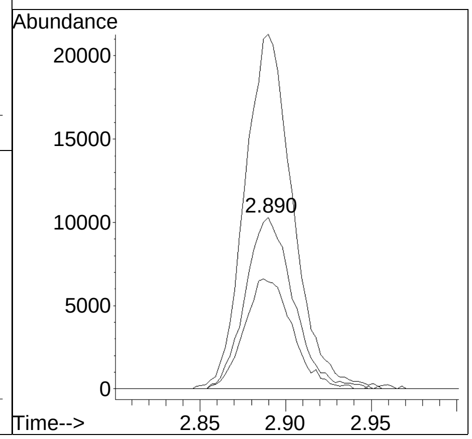


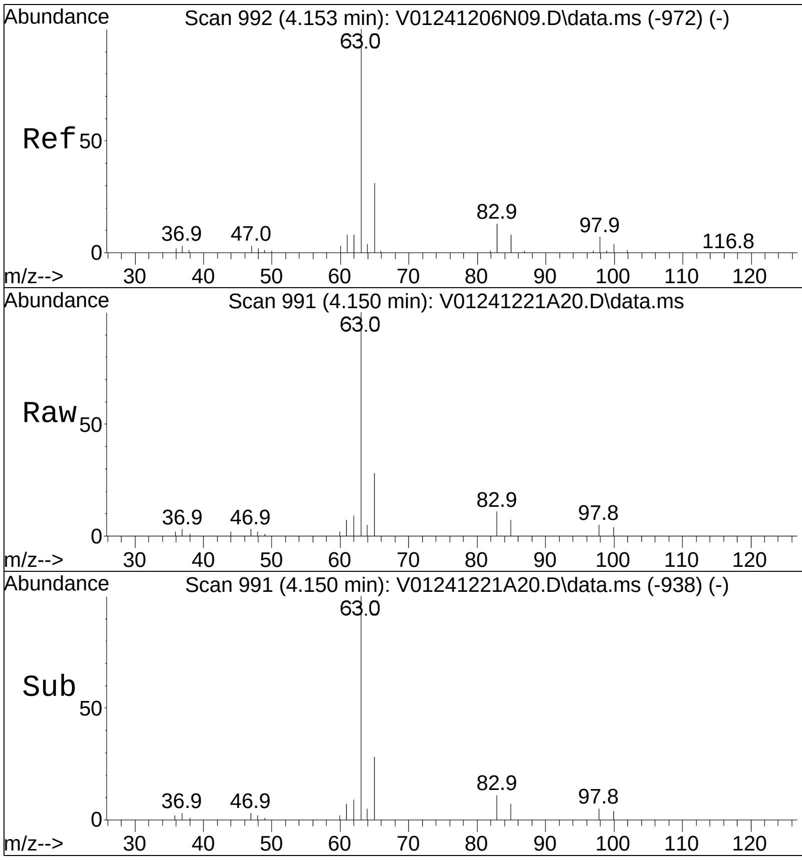



#10
1,1-Dichloroethene
Concen: 4.90 ug/L
RT: 2.890 min Scan# 539
Delta R.T. -0.000 min
Lab File: V01241221A20.D
Acq: 21 Dec 2024 1:20 pm

Tgt Ion: 96 Resp: 20222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 207.1 | 136.8 | 205.2# |
| 63 | 64.5 | 43.6 | 65.4 |

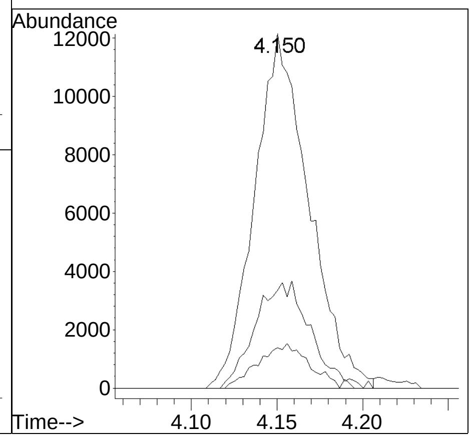


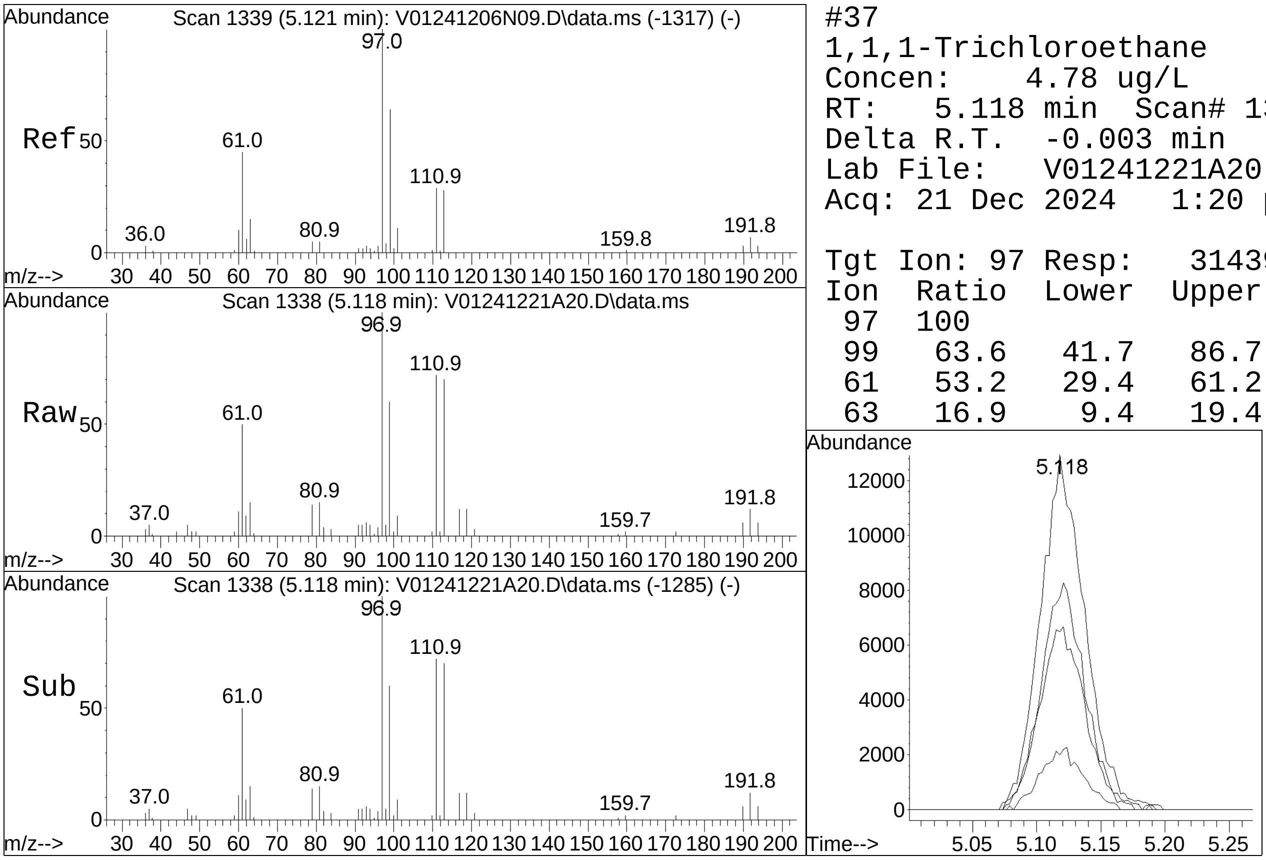



#23
1,1-Dichloroethane
Concen: 3.45 ug/L
RT: 4.150 min Scan# 991
Delta R.T. -0.003 min
Lab File: V01241221A20.D
Acq: 21 Dec 2024 1:20 pm

Tgt Ion: 63 Resp: 26762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.3 | 10.9 | 50.9 |
| 83 | 11.6 | 0.0 | 33.0 |

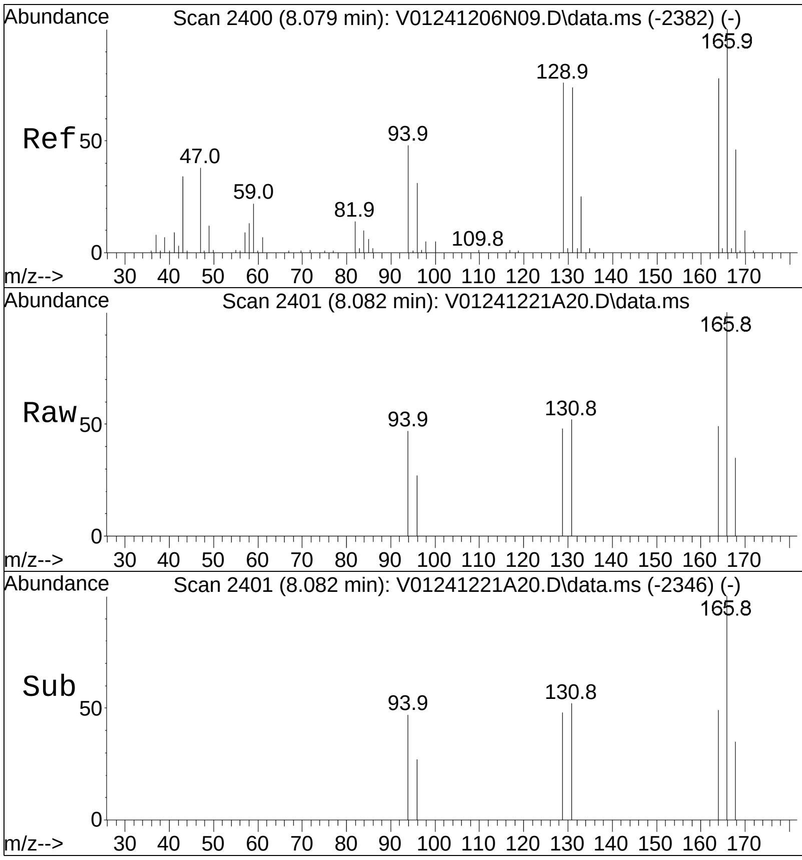





#37
1,1,1-Trichloroethane
Concen: 4.78 ug/L
RT: 5.118 min Scan# 1338
Delta R.T. -0.003 min
Lab File: V01241221A20.D
Acq: 21 Dec 2024 1:20 pm

Tgt Ion: 97 Resp: 31439

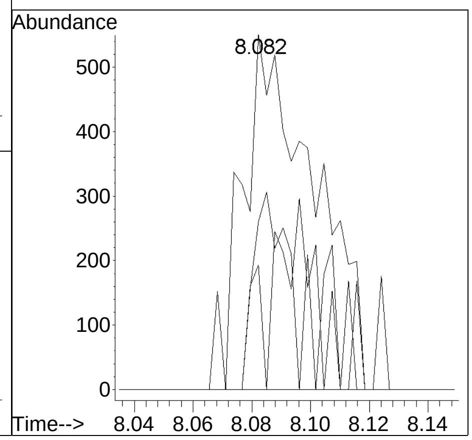
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.6 | 41.7 | 86.7 |
| 61 | 53.2 | 29.4 | 61.2 |
| 63 | 16.9 | 9.4 | 19.4 |




#63
Tetrachloroethene
Concen: 0.23 ug/L
RT: 8.082 min Scan# 2401
Delta R.T. 0.003 min
Lab File: V01241221A20.D
Acq: 21 Dec 2024 1:20 pm

Tgt Ion:166 Resp: 943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 168 | 6.3 | 27.4 | 67.4# |
| 94 | 0.0 | 24.8 | 64.8# |



# Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA101\2024\241221A\ | QMethod | : V101_241206N_8260.m |
| Data File | : V01241221A20.D | Operator | : VOA101:MJV |
| Date Inj'd | : 12/21/2024 1:20 pm | Instrument | : VOA 101 |
| Sample | : L2474329-04,31,10,10,,A | Quant Date | : 12/23/2024 5:42 am |

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

Quantitation Report (QT Reviewed)

```
Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A21.D
Acq On    : 21 Dec 2024   1:46 pm
Operator  : VOA101:MJV
Sample    : L2474329-05,31,10,10,,A
Misc      : WG2012561,ICAL21767
ALS Vial  : 21   Sample Multiplier: 1

Quant Time: Dec 23 06:27:42 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241221A\V01241221A01.D
Sub List     : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

       Compound                    R.T. QIon  Response  Conc Units Dev(Min)
 --------------------------------------------------------------------------
 Internal Standards
 1) Fluorobenzene                5.899   96    158951    10.000 ug/L     0.00
   Standard Area 1 = 209706                 Recovery   =   75.80%
59) Chlorobenzene-d5             9.413  117    123561    10.000 ug/L     0.00
   Standard Area 1 = 164101                 Recovery   =   75.30%
79) 1,4-Dichlorobenzene-d4      12.145  152     57596    10.000 ug/L     0.00
   Standard Area 1 = 88109                 Recovery   =   65.37%

 System Monitoring Compounds
36) Dibromofluoromethane         5.098  113     42095     9.806 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   98.06%
43) 1,2-Dichloroethane-d4        5.617   65     49019    10.472 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =  104.72%
60) Toluene-d8                   7.575   98    157871    10.136 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =  101.36%
83) 4-Bromofluorobenzene        10.924   95     53427     9.991 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   99.91%

 Target Compounds                                                    Qvalue
 2) Dichlorodifluoromethane      0.000                0       N.D.
 3) Chloromethane                0.000                0       N.D.
 4) Vinyl chloride               0.000                0       N.D.
 5) Bromomethane                 2.170   94          95       N.D.
 6) Chloroethane                 2.254   64         155       N.D.
 7) Trichlorofluoromethane       0.000                0       N.D.
10) 1,1-Dichloroethene           0.000                0       N.D.
11) Carbon disulfide             2.912   76         405       N.D.
12) Freon-113                    0.000                0       N.D.
15) Methylene chloride           0.000                0       N.D.
17) Acetone                      3.495   43         512     Below Cal  #    52
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:\VOA101\2024\241221A\
Data File : V01241221A21.D
Acq On : 21 Dec 2024 1:46 pm
Operator : VOA101:MJV
Sample : L2474329-05,31,10,10,,A
Misc : WG2012561,ICAL21767
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 23 06:27:42 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241221A\V01241221A01.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. 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 | 9.413 | 91 | 27 | 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. | |

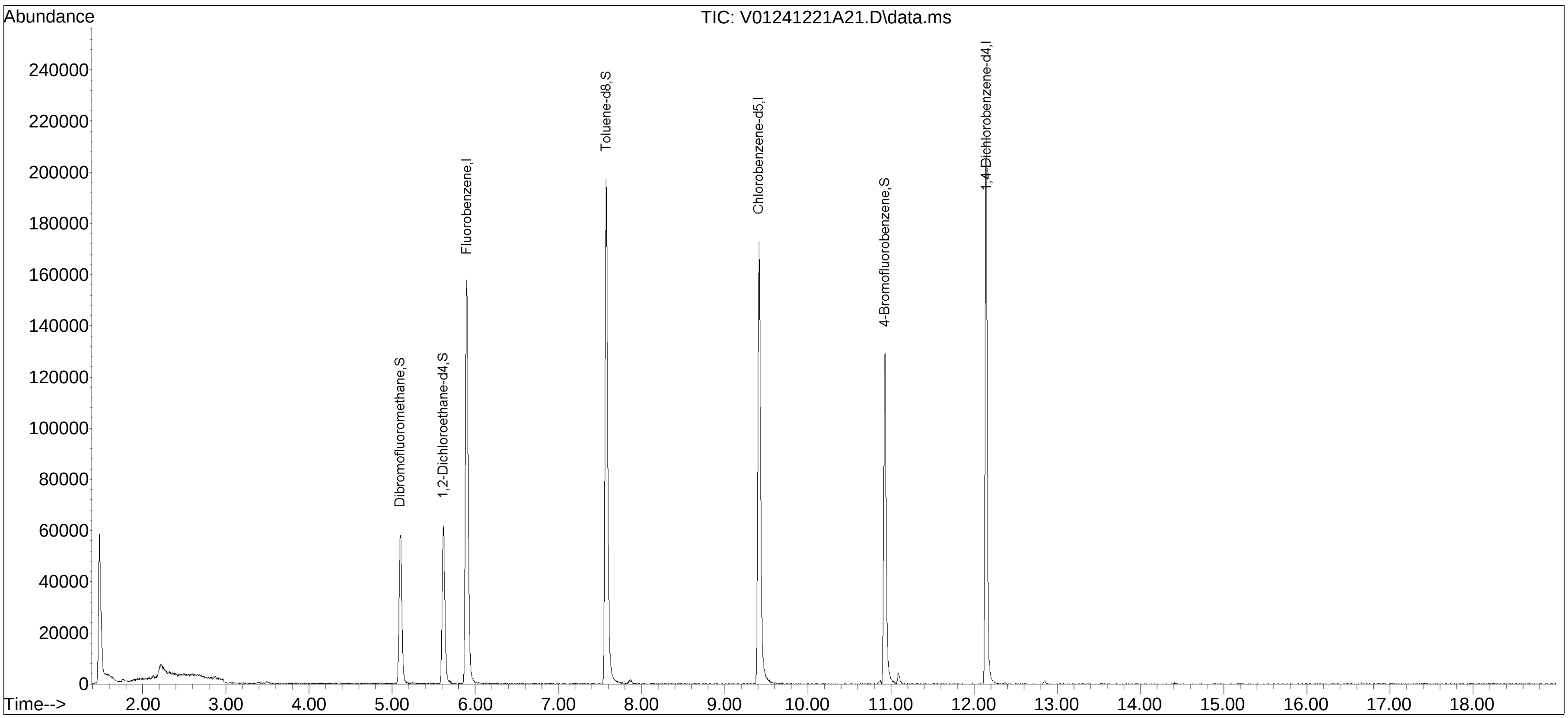
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A21.D
Acq On : 21 Dec 2024 1:46 pm
Operator : VOA101:MJV
Sample : L2474329-05,31,10,10,,A
Misc : WG2012561,ICAL21767
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 23 06:27:42 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

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



Manual Integration Report

```
Data Path   : K:\VOA101\2024\241221A\   QMethod     : V101_241206N_8260.m
Data File   : V01241221A21.D            Operator    : VOA101:MJV
Date Inj'd  : 12/21/2024  1:46 pm       Instrument  : VOA 101
Sample      : L2474329-05,31,10,10,,A   Quant Date  : 12/23/2024  5:43 am
```

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

Quantitation Report (QT Reviewed)

```
Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A22.D
Acq On    : 21 Dec 2024   2:12 pm
Operator  : VOA101:MJV
Sample    : L2474329-06,31,10,10,,A
Misc      : WG2012561,ICAL21767
ALS Vial  : 22   Sample Multiplier: 1

Quant Time: Dec 23 06:28:37 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241221A\V01241221A01.D
Sub List     : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 --------------------------------------------------------------------------
 Internal Standards
 1) Fluorobenzene               5.896   96    159688    10.000 ug/L     0.00
   Standard Area 1 = 209706                 Recovery   =   76.15%
59) Chlorobenzene-d5            9.415  117    122418    10.000 ug/L     0.00
   Standard Area 1 = 164101                 Recovery   =   74.60%
79) 1,4-Dichlorobenzene-d4     12.145  152     57039    10.000 ug/L     0.00
   Standard Area 1 = 88109                 Recovery   =   64.74%

 System Monitoring Compounds
36) Dibromofluoromethane        5.101  113     42359     9.822 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   98.22%
43) 1,2-Dichloroethane-d4       5.620   65     48664    10.348 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =  103.48%
60) Toluene-d8                  7.575   98    158624    10.280 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =  102.80%
83) 4-Bromofluorobenzene       10.924   95     53098    10.027 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =  100.27%

 Target Compounds                                                  Qvalue
 2) Dichlorodifluoromethane     0.000                0       N.D.
 3) Chloromethane               0.000                0       N.D.
 4) Vinyl chloride              0.000                0       N.D.
 5) Bromomethane                2.173   94          57       N.D.
 6) Chloroethane                2.273   64         121       N.D.
 7) Trichlorofluoromethane      0.000                0       N.D.
10) 1,1-Dichloroethene          0.000                0       N.D.
11) Carbon disulfide            2.920   76         279       N.D.
12) Freon-113                   0.000                0       N.D.
15) Methylene chloride          0.000                0       N.D.
17) Acetone                     3.489   43        180     Below Cal  #    42
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:\VOA101\2024\241221A\
Data File : V01241221A22.D
Acq On : 21 Dec 2024 2:12 pm
Operator : VOA101:MJV
Sample : L2474329-06,31,10,10,,A
Misc : WG2012561,ICAL21767
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 23 06:28:37 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241221A\V01241221A01.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. 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 | 5.966 | 95 | 67 | 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 | 7.622 | 92 | 29 | 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 | 9.418 | 91 | 26 | 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. | |

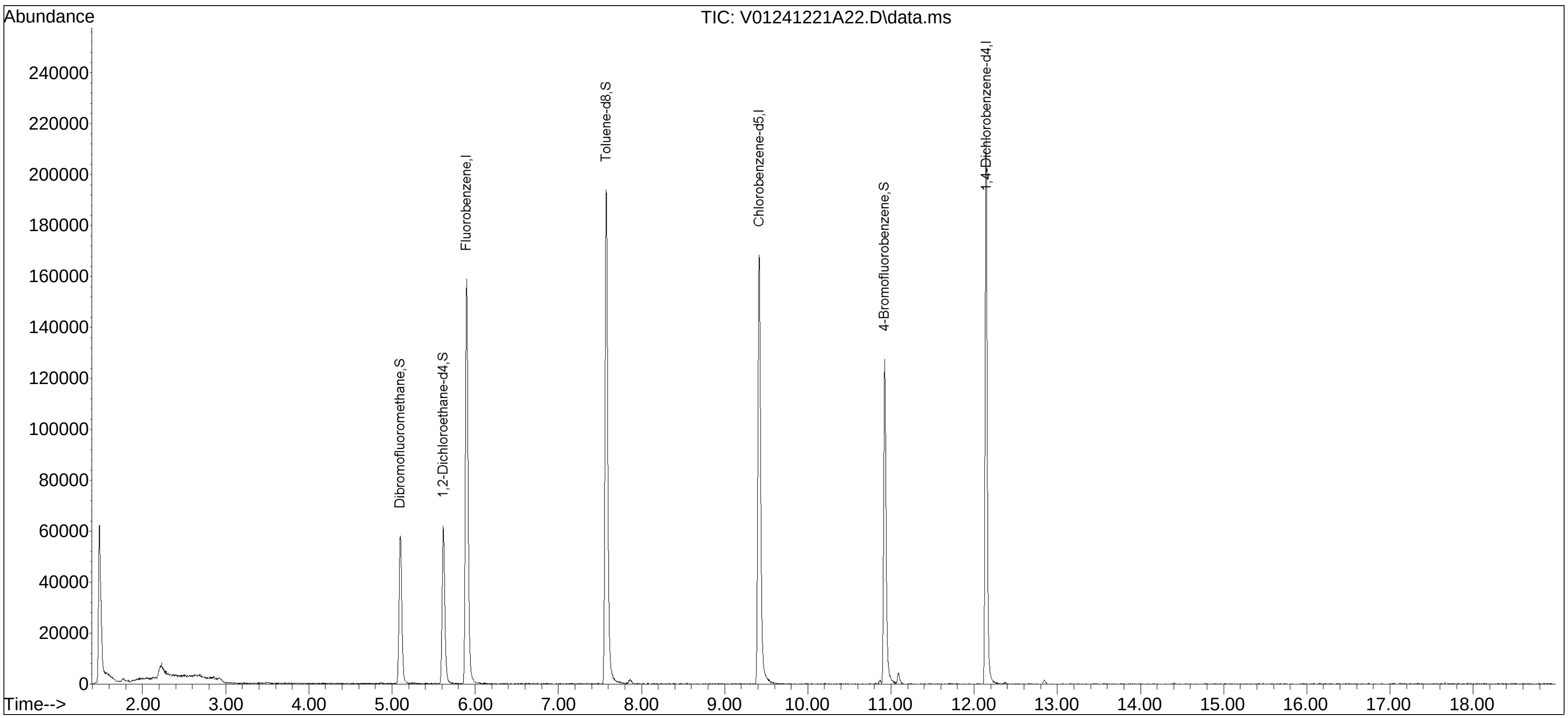
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A22.D
Acq On    : 21 Dec 2024   2:12 pm
Operator  : VOA101:MJV
Sample    : L2474329-06,31,10,10,,A
Misc      : WG2012561,ICAL21767
ALS Vial  : 22   Sample Multiplier: 1

Quant Time: Dec 23 06:28:37 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

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




V101_241206N_8260.m Mon Dec 23 06:36:59 2024    Page: 4

Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA101\2024\241221A\ | QMethod | : V101_241206N_8260.m |
| Data File | : V01241221A22.D | Operator | : VOA101:MJV |
| Date Inj'd | : 12/21/2024 2:12 pm | Instrument | : VOA 101 |
| Sample | : L2474329-06,31,10,10,,A | Quant Date | : 12/23/2024 5:43 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** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Instrument ID** | **: VOA105** | **Ical Ref** | **: ICAL21671** |
| **Calibration dates** | **: 11/06/24 04:25 11/06/24 08:40** | | |

Calibration Files
L11 =V05241106A03.D L1 =V05241106A05.D L2 =V05241106A07.D L3 =V05241106A09.D L4 =V05241106A10.D
L6 =V05241106A11.D L8 =V05241106A12.D L10 =V05241106A13.D

| | Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) I | Fluorobenzene | ----------------ISTD-------------------- | | | | | | | | | |
| 2) TP | Dichlorodifluo | | 0.257 | 0.348 | 0.339 | 0.352 | 0.349 | 0.339 | 0.321 | 0.329 | 10.18 |
| 3) TP | Chloromethane | | 0.368 | 0.453 | 0.465 | 0.475 | 0.477 | 0.478 | 0.478 | 0.456 | 8.76 |
| 4) TP | Vinyl chloride | 0.362 | 0.297 | 0.402 | 0.397 | 0.415 | 0.422 | 0.410 | 0.395 | 0.388 | 10.56 |
| 5) TP | Bromomethane | | 0.057 | 0.058 | 0.069 | 0.080 | 0.097 | 0.114 | 0.129 | *Q | 0.9990 |
| 6) TP | Chloroethane | | 0.175 | 0.205 | 0.192 | 0.207 | 0.188 | 0.183 | 0.171 | 0.189 | 7.31 |
| 7) TP | Trichlorofluor | | 0.303 | 0.396 | 0.390 | 0.427 | 0.401 | 0.393 | 0.375 | 0.384 | 10.17 |
| 8) TP | Ethyl ether | | 0.078 | 0.084 | 0.088 | 0.093 | 0.085 | 0.089 | 0.085 | 0.086 | 5.32 |
| 10) TP | 1,1-Dichloroet | | 0.164 | 0.202 | 0.190 | 0.194 | 0.194 | 0.195 | 0.189 | 0.190 | 6.33 |
| 11) TP | Carbon disulfide | | 0.523 | 0.624 | 0.607 | 0.632 | 0.643 | 0.647 | 0.633 | 0.616 | 6.95 |
| 12) TP | Freon-113 | | 0.156 | 0.221 | 0.214 | 0.219 | 0.216 | 0.215 | 0.205 | 0.207 | 11.05 |
| 14) TP | Acrolein | | 0.049 | 0.031 | 0.037 | 0.038 | 0.038 | 0.036 | 0.034 | 0.038 | 15.09 |
| 15) TP | Methylene chlo | | 0.285 | 0.258 | 0.244 | 0.237 | 0.231 | 0.229 | 0.226 | 0.244 | 8.61 |
| 17) TP | Acetone | | 0.099 | 0.063 | 0.065 | 0.061 | 0.065 | 0.069 | 0.063 | 0.069 | 19.45 |
| 18) TP | trans-1,2-Dich | | 0.203 | 0.240 | 0.246 | 0.247 | 0.240 | 0.233 | 0.230 | 0.234 | 6.49 |
| 19) TP | Methyl acetate | | | 0.143 | 0.168 | 0.180 | 0.181 | 0.177 | 0.160 | 0.168 | 8.83 |
| 20) TP | Methyl tert butyl ether | | 0.449 | 0.481 | 0.528 | 0.523 | 0.517 | 0.515 | 0.500 | 0.502 | 5.64 |
| 21) TP | tert-Butyl alc | | 0.014 | 0.015 | 0.016 | 0.016 | 0.017 | 0.017 | 0.015 | 0.016 | 5.55 |
| 22) TP | Diisopropyl ether | | 1.150 | 1.315 | 1.451 | 1.467 | 1.438 | 1.392 | 1.306 | 1.360 | 8.28 |
| 23) TP | 1,1-Dichloroet | | 0.544 | 0.620 | 0.620 | 0.622 | 0.601 | 0.586 | 0.571 | 0.595 | 4.93 |
| 24) TP | Halothane | | 0.157 | 0.188 | 0.194 | 0.198 | 0.193 | 0.189 | 0.186 | 0.186 | 7.33 |
| 25) TP | Acrylonitrile | | | 0.090 | 0.096 | 0.094 | 0.095 | 0.095 | 0.088 | 0.093 | 3.30 |
| 26) TP | Ethyl tert-but | | 0.807 | 0.912 | 1.023 | 1.021 | 1.011 | 1.006 | 0.964 | 0.963 | 8.28 |
| 27) TP | Vinyl acetate | | 0.531 | 0.615 | 0.740 | 0.797 | 0.855 | 0.837 | 0.754 | 0.733 | 16.25 |
| 28) TP | cis-1,2-Dichlo | | 0.216 | 0.280 | 0.273 | 0.273 | 0.263 | 0.258 | 0.254 | 0.259 | 8.20 |
| 29) TP | 2,2-Dichloropr | | 0.311 | 0.388 | 0.390 | 0.397 | 0.388 | 0.378 | 0.371 | 0.375 | 7.87 |
| 30) TP | Bromochloromet | | 0.109 | 0.124 | 0.126 | 0.119 | 0.107 | 0.105 | 0.102 | 0.113 | 8.44 |
| 31) TP | Cyclohexane | | 0.658 | 0.819 | 0.831 | 0.836 | 0.814 | 0.791 | 0.753 | 0.786 | 8.02 |
| 32) TP | Chloroform | | 0.394 | 0.436 | 0.446 | 0.437 | 0.430 | 0.420 | 0.415 | 0.426 | 4.07 |
| 33) TP | Ethyl acetate | | 0.152 | 0.220 | 0.256 | 0.272 | 0.276 | 0.276 | 0.254 | 0.244 | 18.43 |
| 34) TP | Carbon tetrachloride | 0.330 | 0.290 | 0.364 | 0.387 | 0.391 | 0.402 | 0.393 | 0.387 | 0.368 | 10.56 |
| 35) TP | Tetrahydrofuran | | 0.092 | 0.069 | 0.076 | 0.077 | 0.076 | 0.087 | 0.067 | 0.078 | 11.85 |
| 36) S | Dibromofluoromethane | 0.267 | 0.263 | 0.265 | 0.257 | 0.257 | 0.252 | 0.253 | 0.248 | 0.258 | 2.65 |
| 37) TP | 1,1,1-Trichlor | | 0.333 | 0.408 | 0.419 | 0.424 | 0.417 | 0.405 | 0.398 | 0.401 | 7.74 |
| 39) TP | 2-Butanone | | | 0.078 | 0.110 | 0.113 | 0.119 | 0.117 | 0.106 | 0.107 | 14.18 |
| 40) TP | 1,1-Dichloropr | | 0.290 | 0.344 | 0.356 | 0.358 | 0.356 | 0.350 | 0.343 | 0.343 | 7.03 |

# Initial Calibration Summary
# Form 6
# Volatiles

| | | | |
|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Instrument ID** | : **VOA105** | **Ical Ref** | : **ICAL21671** |
| **Calibration dates** | : **11/06/24 04:25 11/06/24 08:40** | | |

Calibration Files

L11 =V05241106A03.D L1 =V05241106A05.D L2 =V05241106A07.D L3 =V05241106A09.D L4 =V05241106A10.D

L6 =V05241106A11.D L8 =V05241106A12.D L10 =V05241106A13.D

| | | Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 41) | TP | Benzene | 0.871 | 0.871 | 0.968 | 1.015 | 1.014 | 1.004 | 0.993 | 0.977 | 0.964 | 6.20 |
| 42) | TP | Tertiary-Amyl Methyl Ether | | 0.480 | 0.506 | 0.569 | 0.569 | 0.577 | 0.580 | 0.565 | 0.550 | 7.18 |
| 43) | S | 1,2-Dichloroethane-d4 | 0.342 | 0.343 | 0.345 | 0.354 | 0.337 | 0.328 | 0.334 | 0.333 | 0.340 | 2.44 |
| 44) | TP | 1,2-Dichloroet | | 0.354 | 0.394 | 0.405 | 0.394 | 0.388 | 0.380 | 0.363 | 0.383 | 4.78 |
| 47) | TP | Methyl cyclohe | | 0.325 | 0.414 | 0.451 | 0.460 | 0.456 | 0.452 | 0.435 | 0.428 | 11.19 |
| 48) | TP | Trichloroethene | 0.324 | 0.217 | 0.273 | 0.261 | 0.268 | 0.264 | 0.257 | 0.253 | 0.265 | 11.10 |
| 50) | TP | Dibromomethane | | 0.121 | 0.124 | 0.136 | 0.133 | 0.132 | 0.133 | 0.129 | 0.130 | 3.96 |
| 51) | TP | 1,2-Dichloropr | | 0.288 | 0.325 | 0.339 | 0.346 | 0.342 | 0.337 | 0.331 | 0.330 | 5.93 |
| 53) | TP | 2-Chloroethyl | | 0.106 | 0.131 | 0.167 | 0.169 | 0.165 | 0.166 | 0.157 | 0.152 | 15.80 |
| 54) | TP | Bromodichlorom | | 0.268 | 0.310 | 0.333 | 0.336 | 0.337 | 0.334 | 0.328 | 0.321 | 7.85 |
| 57) | TP | 1,4-Dioxane | | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001# | 6.39 |
| 58) | TP | cis-1,3-Dichloropropene | 0.301 | 0.299 | 0.353 | 0.383 | 0.396 | 0.401 | 0.399 | 0.393 | 0.365 | 11.87 |
| 59) | I | Chlorobenzene-d5 | ----------------ISTD-------------------- | | | | | | | | | |
| 60) | S | Toluene-d8 | 1.240 | 1.246 | 1.247 | 1.265 | 1.271 | 1.249 | 1.251 | 1.259 | 1.253 | 0.83 |
| 61) | TP | Toluene | | 0.663 | 0.809 | 0.839 | 0.840 | 0.812 | 0.811 | 0.801 | 0.796 | 7.62 |
| 62) | TP | 4-Methyl-2-pen | | 0.070 | 0.087 | 0.115 | 0.112 | 0.115 | 0.116 | 0.110 | 0.104 | 17.19 |
| 63) | TP | Tetrachloroethene | | 0.284 | 0.339 | 0.369 | 0.372 | 0.363 | 0.360 | 0.357 | 0.349 | 8.78 |
| 65) | TP | trans-1,3-Dichloropropene | 0.275 | 0.317 | 0.351 | 0.422 | 0.442 | 0.434 | 0.437 | 0.424 | 0.388 | 16.61 |
| 67) | TP | Ethyl methacry | | 0.164 | 0.233 | 0.279 | 0.280 | 0.274 | 0.281 | 0.270 | 0.255 | 17.06 |
| 68) | TP | 1,1,2-Trichlor | | 0.145 | 0.178 | 0.201 | 0.197 | 0.190 | 0.191 | 0.185 | 0.184# | 10.09 |
| 69) | TP | Chlorodibromom | | 0.206 | 0.254 | 0.313 | 0.314 | 0.315 | 0.318 | 0.313 | 0.290 | 14.98 |
| 70) | TP | 1,3-Dichloropr | | 0.351 | 0.397 | 0.433 | 0.424 | 0.413 | 0.414 | 0.402 | 0.405 | 6.59 |
| 71) | TP | 1,2-Dibromoethane | | 0.176 | 0.212 | 0.243 | 0.243 | 0.241 | 0.243 | 0.236 | 0.228 | 11.15 |
| 72) | TP | 2-Hexanone | | 0.134 | 0.150 | 0.205 | 0.209 | 0.212 | 0.215 | 0.198 | 0.189 | 17.40 |
| 73) | TP | Chlorobenzene | | 0.752 | 0.866 | 0.909 | 0.901 | 0.875 | 0.872 | 0.862 | 0.862 | 6.00 |
| 74) | TP | Ethylbenzene | | 1.360 | 1.599 | 1.680 | 1.680 | 1.619 | 1.604 | 1.561 | 1.586 | 6.85 |
| 75) | TP | 1,1,1,2-Tetrac | | 0.252 | 0.273 | 0.323 | 0.323 | 0.320 | 0.318 | 0.313 | 0.303 | 9.43 |
| 76) | TP | p/m Xylene | | 0.498 | 0.609 | 0.641 | 0.638 | 0.622 | 0.613 | 0.589 | 0.601 | 8.16 |
| 77) | TP | o Xylene | | 0.489 | 0.583 | 0.609 | 0.607 | 0.587 | 0.585 | 0.566 | 0.575 | 7.08 |
| 78) | TP | Styrene | | 0.776 | 0.932 | 0.990 | 0.991 | 0.963 | 0.952 | 0.901 | 0.929 | 8.05 |
| 79) | I | 1,4-Dichlorobenzene-d4 | ----------------ISTD-------------------- | | | | | | | | | |
| 80) | TP | Bromoform | | 0.187 | 0.242 | 0.307 | 0.322 | 0.333 | 0.343 | 0.339 | 0.296 | 19.91 |
| 82) | TP | Isopropylbenzene | | 2.528 | 3.072 | 3.248 | 3.254 | 3.228 | 3.235 | 3.217 | 3.112 | 8.51 |
| 83) | S | 4-Bromofluorobenzene | 0.897 | 0.890 | 0.890 | 0.917 | 0.908 | 0.918 | 0.929 | 0.929 | 0.910 | 1.77 |
| 84) | TP | Bromobenzene | | 0.541 | 0.682 | 0.710 | 0.688 | 0.692 | 0.699 | 0.694 | 0.672 | 8.69 |
| 85) | TP | n-Propylbenzene | | 2.842 | 3.588 | 3.771 | 3.748 | 3.770 | 3.741 | 3.547 | 3.572 | 9.37 |

# Initial Calibration Summary
# Form 6
# Volatiles

| | | | |
|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Instrument ID** | : **VOA105** | **Ical Ref** | : **ICAL21671** |
| **Calibration dates** | : **11/06/24 04:25 11/06/24 08:40** | | |

Calibration Files

L11 =V05241106A03.D L1 =V05241106A05.D L2 =V05241106A07.D L3 =V05241106A09.D L4 =V05241106A10.D

L6 =V05241106A11.D L8 =V05241106A12.D L10 =V05241106A13.D

| | | Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 86) | TP | 1,4-Dichlorobu | 1.063 | 1.087 | 1.248 | 1.201 | 1.209 | 1.211 | 1.160 | 1.168 | | 5.91 |
| 87) | TP | 1,1,2,2-Tetrac | 0.433 | 0.447 | 0.511 | 0.499 | 0.509 | 0.518 | 0.503 | 0.489 | | 6.97 |
| 88) | TP | 4-Ethyltoluene | 2.364 | 2.926 | 3.086 | 3.073 | 3.065 | 3.071 | 3.014 | 2.943 | | 8.87 |
| 89) | TP | 2-Chlorotoluene | 1.788 | 2.048 | 2.104 | 2.063 | 2.085 | 2.087 | 2.080 | 2.037 | | 5.45 |
| 90) | TP | 1,3,5-Trimethy | 2.090 | 2.628 | 2.695 | 2.683 | 2.641 | 2.624 | 2.574 | 2.562 | | 8.28 |
| 91) | TP | 1,2,3-Trichlor | 0.380 | 0.375 | 0.417 | 0.408 | 0.410 | 0.416 | 0.399 | 0.401 | | 4.25 |
| 92) | TP | trans-1,4-Dich | 0.156 | 0.190 | 0.226 | 0.237 | 0.233 | 0.233 | 0.231 | 0.215 | | 14.22 |
| 93) | TP | 4-Chlorotoluene | 1.896 | 2.117 | 2.227 | 2.157 | 2.168 | 2.169 | 2.166 | 2.129 | | 5.05 |
| 94) | TP | tert-Butylbenzene | 1.811 | 2.228 | 2.335 | 2.344 | 2.366 | 2.362 | 2.329 | 2.253 | | 8.91 |
| 97) | TP | 1,2,4-Trimethy | 1.970 | 2.421 | 2.605 | 2.598 | 2.588 | 2.551 | 2.520 | 2.465 | | 9.23 |
| 98) | TP | sec-Butylbenzene | 2.563 | 3.244 | 3.380 | 3.367 | 3.411 | 3.366 | 3.186 | 3.217 | | 9.31 |
| 99) | TP | p-Isopropyltol | 2.191 | 2.798 | 2.971 | 2.952 | 2.964 | 2.923 | 2.834 | 2.805 | | 9.95 |
| 100) | TP | 1,3-Dichlorobe | | 1.176 | 1.283 | 1.386 | 1.357 | 1.357 | 1.354 | 1.334 | 1.321 | 5.40 |
| 101) | TP | 1,4-Dichlorobe | | 1.140 | 1.371 | 1.381 | 1.343 | 1.348 | 1.339 | 1.317 | 1.320 | 6.23 |
| 102) | TP | p-Diethylbenzene | | 1.257 | 1.563 | 1.704 | 1.710 | 1.727 | 1.722 | 1.693 | 1.625 | 10.57 |
| 103) | TP | n-Butylbenzene | | 1.752 | 2.225 | 2.376 | 2.433 | 2.419 | 2.409 | 2.329 | 2.277 | 10.64 |
| 104) | TP | 1,2-Dichlorobe | | 1.030 | 1.192 | 1.257 | 1.214 | 1.232 | 1.218 | 1.195 | 1.191 | 6.25 |
| 105) | TP | 1,2,4,5-Tetram | | 1.851 | 2.212 | 2.445 | 2.505 | 2.548 | 2.510 | 2.445 | 2.359 | 10.58 |
| 106) | TP | 1,2-Dibromo-3- | | 0.043 | 0.056 | 0.073 | 0.076 | 0.082 | 0.082 | 0.079 | *L | 0.9993 |
| 107) | TP | 1,3,5-Trichlor | | 0.735 | 0.840 | 0.937 | 0.928 | 0.933 | 0.927 | 0.892 | 0.885 | 8.41 |
| 108) | TP | Hexachlorobuta | | 0.262 | 0.313 | 0.330 | 0.334 | 0.347 | 0.349 | 0.340 | 0.325 | 9.28 |
| 109) | TP | 1,2,4-Trichlor | | 0.578 | 0.714 | 0.793 | 0.802 | 0.805 | 0.803 | 0.771 | 0.752 | 11.08 |
| 110) | TP | Naphthalene | | 1.376 | 1.519 | 1.763 | 1.768 | 1.777 | 1.783 | 1.688 | 1.668 | 9.55 |
| 111) | TP | 1,2,3-Trichlor | | 0.514 | 0.584 | 0.674 | 0.673 | 0.675 | 0.674 | 0.647 | 0.635 | 9.87 |

# Initial Calibration Summary
# Form 6
# Volatiles

| | | | |
|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Instrument ID** | : **VOA101** | **Ical Ref** | : **ICAL21767** |
| **Calibration dates** | : **12/07/24 00:30 12/07/24 04:49** | | |

Calibration Files

L11 =V01241206N03.D L1 =V01241206N05.D L2 =V01241206N07.D L3 =V01241206N09.D L4 =V01241206N10.D
L6 =V01241206N11.D L8 =V01241206N12.D L10 =V01241206N13.D

| | Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) I | Fluorobenzene | ----------------ISTD-------------------- | | | | | | | | | |
| 2) TP | Dichlorodifluo | | 0.241 | 0.318 | 0.323 | 0.328 | 0.318 | 0.326 | 0.316 | 0.310 | 9.87 |
| 3) TP | Chloromethane | | 0.272 | 0.329 | 0.324 | 0.328 | 0.325 | 0.328 | 0.322 | 0.318 | 6.41 |
| 4) TP | Vinyl chloride | 0.291 | 0.266 | 0.351 | 0.353 | 0.359 | 0.351 | 0.358 | 0.349 | 0.335 | 10.63 |
| 5) TP | Bromomethane | | 0.124 | 0.154 | 0.160 | 0.169 | 0.183 | 0.191 | 0.194 | 0.168 | 14.54 |
| 6) TP | Chloroethane | | 0.175 | 0.215 | 0.225 | 0.228 | 0.222 | 0.213 | 0.190 | 0.210 | 9.49 |
| 7) TP | Trichlorofluor | | 0.315 | 0.454 | 0.462 | 0.470 | 0.455 | 0.457 | 0.434 | 0.435 | 12.46 |
| 8) TP | Ethyl ether | | 0.115 | 0.117 | 0.117 | 0.117 | 0.117 | 0.116 | 0.113 | 0.116 | 1.38 |
| 10) TP | 1,1-Dichloroet | | 0.210 | 0.259 | 0.259 | 0.260 | 0.257 | 0.258 | 0.250 | 0.251 | 7.22 |
| 11) TP | Carbon disulfide | | 0.667 | 0.771 | 0.758 | 0.788 | 0.799 | 0.805 | 0.787 | 0.768 | 6.15 |
| 12) TP | Freon-113 | | 0.197 | 0.270 | 0.279 | 0.285 | 0.278 | 0.280 | 0.267 | 0.265 | 11.53 |
| 13) TP | Iodomethane | | | 0.263 | 0.326 | 0.363 | 0.379 | 0.375 | 0.363 | 0.345 | 12.80 |
| 14) TP | Acrolein | | | 0.031 | 0.028 | 0.028 | 0.030 | 0.031 | 0.031 | 0.030 | 3.88 |
| 15) TP | Methylene chlo | | 0.259 | 0.242 | 0.239 | 0.237 | 0.241 | 0.241 | 0.241 | 0.243 | 2.99 |
| 17) TP | Acetone | | | 0.094 | 0.047 | 0.043 | 0.044 | 0.042 | 0.045 | *L | 0.9983 |
| 18) TP | trans-1,2-Dich | | 0.207 | 0.250 | 0.246 | 0.249 | 0.253 | 0.257 | 0.256 | 0.245 | 7.08 |
| 19) TP | Methyl acetate | | | 0.134 | 0.107 | 0.109 | 0.112 | 0.113 | 0.106 | 0.114 | 9.00 |
| 20) TP | Methyl tert butyl ether | | 0.493 | 0.517 | 0.521 | 0.525 | 0.534 | 0.543 | 0.538 | 0.524 | 3.15 |
| 21) TP | tert-Butyl alc | | 0.010 | 0.013 | 0.013 | 0.013 | 0.013 | 0.014 | 0.014 | 0.013 | 10.69 |
| 22) TP | Diisopropyl ether | | 0.817 | 0.867 | 0.876 | 0.878 | 0.894 | 0.898 | 0.891 | 0.875 | 3.16 |
| 23) TP | 1,1-Dichloroet | | 0.394 | 0.472 | 0.480 | 0.483 | 0.487 | 0.494 | 0.488 | 0.471 | 7.34 |
| 24) TP | Halothane | | 0.149 | 0.191 | 0.193 | 0.201 | 0.200 | 0.206 | 0.206 | 0.192 | 10.34 |
| 25) TP | Acrylonitrile | | 0.037 | 0.049 | 0.050 | 0.051 | 0.053 | 0.055 | 0.054 | 0.050 | 11.87 |
| 26) TP | Ethyl tert-but | | 0.674 | 0.711 | 0.719 | 0.730 | 0.752 | 0.763 | 0.765 | 0.731 | 4.48 |
| 27) TP | Vinyl acetate | | 0.464 | 0.441 | 0.399 | 0.397 | 0.414 | 0.442 | 0.450 | 0.429 | 6.10 |
| 28) TP | cis-1,2-Dichlo | | 0.230 | 0.267 | 0.272 | 0.274 | 0.277 | 0.279 | 0.278 | 0.268 | 6.49 |
| 29) TP | 2,2-Dichloropr | | 0.318 | 0.394 | 0.376 | 0.407 | 0.406 | 0.411 | 0.402 | 0.388 | 8.50 |
| 30) TP | Bromochloromet | | 0.108 | 0.125 | 0.124 | 0.127 | 0.130 | 0.130 | 0.127 | 0.124 | 6.14 |
| 31) TP | Cyclohexane | | 0.403 | 0.498 | 0.505 | 0.512 | 0.511 | 0.528 | 0.525 | 0.497 | 8.64 |
| 32) TP | Chloroform | | 0.387 | 0.434 | 0.439 | 0.447 | 0.451 | 0.452 | 0.447 | 0.437 | 5.21 |
| 33) TP | Ethyl acetate | | 0.119 | 0.164 | 0.160 | 0.160 | 0.164 | 0.168 | 0.166 | 0.157 | 10.93 |
| 34) TP | Carbon tetrachloride | 0.315 | 0.275 | 0.356 | 0.369 | 0.384 | 0.383 | 0.394 | 0.389 | 0.358 | 11.77 |
| 35) TP | Tetrahydrofuran | | 0.058 | 0.050 | 0.046 | 0.044 | 0.042 | 0.042 | 0.042 | 0.046 | 12.97 |
| 36) S | Dibromofluoromethane | 0.263 | 0.266 | 0.268 | 0.267 | 0.268 | 0.273 | 0.277 | 0.279 | 0.270 | 2.14 |
| 37) TP | 1,1,1-Trichlor | | 0.323 | 0.403 | 0.407 | 0.415 | 0.412 | 0.419 | 0.415 | 0.399 | 8.53 |
| 39) TP | 2-Butanone | | | 0.094 | 0.071 | 0.068 | 0.067 | 0.070 | 0.068 | 0.073 | 14.18 |

# Initial Calibration Summary
# Form 6
# Volatiles

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Instrument ID** | : VOA101 | **Ical Ref** | : ICAL21767 |
| **Calibration dates** | : 12/07/24 00:30     12/07/24 04:49 | | |

Calibration Files

L11 =V01241206N03.D  L1  =V01241206N05.D  L2  =V01241206N07.D  L3  =V01241206N09.D  L4  =V01241206N10.D

L6  =V01241206N11.D  L8  =V01241206N12.D  L10 =V01241206N13.D

| # | Type | Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40) | TP | 1,1-Dichloropr | | 0.269 | 0.341 | 0.350 | 0.357 | 0.352 | 0.359 | 0.355 | 0.341 | 9.38 |
| 41) | TP | Benzene | 0.907 | 0.814 | 0.968 | 0.978 | 0.994 | 0.999 | 1.007 | 1.004 | 0.959 | 6.98 |
| 42) | TP | Tertiary-Amyl Methyl Ether | | 0.529 | 0.547 | 0.560 | 0.566 | 0.581 | 0.590 | 0.590 | 0.566 | 4.04 |
| 43) | S | 1,2-Dichloroethane-d4 | 0.291 | 0.287 | 0.290 | 0.290 | 0.290 | 0.294 | 0.304 | 0.309 | 0.295 | 2.70 |
| 44) | TP | 1,2-Dichloroet | | 0.289 | 0.313 | 0.319 | 0.319 | 0.322 | 0.323 | 0.319 | 0.315 | 3.76 |
| 47) | TP | Methyl cyclohe | | 0.329 | 0.442 | 0.450 | 0.457 | 0.464 | 0.477 | 0.479 | 0.442 | 11.68 |
| 48) | TP | Trichloroethene | 0.246 | 0.224 | 0.257 | 0.273 | 0.277 | 0.280 | 0.288 | 0.288 | 0.267 | 8.44 |
| 50) | TP | Dibromomethane | | 0.109 | 0.126 | 0.130 | 0.135 | 0.137 | 0.138 | 0.137 | 0.130 | 7.98 |
| 51) | TP | 1,2-Dichloropr | | 0.221 | 0.257 | 0.260 | 0.264 | 0.265 | 0.266 | 0.264 | 0.257 | 6.30 |
| 53) | TP | 2-Chloroethyl | | 0.067 | 0.092 | 0.104 | 0.103 | 0.106 | 0.107 | 0.105 | 0.098 | 14.73 |
| 54) | TP | Bromodichlorom | | 0.299 | 0.320 | 0.331 | 0.335 | 0.342 | 0.347 | 0.344 | 0.331 | 5.16 |
| 57) | TP | 1,4-Dioxane | | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001# | 7.98 |
| 58) | TP | cis-1,3-Dichloropropene | | 0.311 | 0.369 | 0.378 | 0.390 | 0.400 | 0.403 | 0.402 | 0.379 | 8.65 |
| 59) | I | Chlorobenzene-d5 | ----------------ISTD-------------------- | | | | | | | | | |
| 60) | S | Toluene-d8 | 1.288 | 1.283 | 1.276 | 1.273 | 1.265 | 1.243 | 1.228 | 1.228 | 1.261 | 1.93 |
| 61) | TP | Toluene | | 0.691 | 0.808 | 0.826 | 0.822 | 0.834 | 0.823 | 0.826 | 0.804 | 6.28 |
| 62) | TP | 4-Methyl-2-pen | | | 0.061 | 0.070 | 0.071 | 0.073 | 0.073 | 0.073 | 0.070 | 6.42 |
| 63) | TP | Tetrachloroethene | | 0.268 | 0.343 | 0.351 | 0.352 | 0.350 | 0.350 | 0.351 | 0.338 | 9.11 |
| 65) | TP | trans-1,3-Dichloropropene | | 0.324 | 0.364 | 0.395 | 0.411 | 0.425 | 0.423 | 0.425 | 0.395 | 9.75 |
| 67) | TP | Ethyl methacry | | 0.191 | 0.231 | 0.253 | 0.264 | 0.276 | 0.278 | 0.279 | 0.253 | 12.73 |
| 68) | TP | 1,1,2-Trichlor | | 0.174 | 0.188 | 0.189 | 0.187 | 0.190 | 0.188 | 0.189 | 0.186# | 3.02 |
| 69) | TP | Chlorodibromom | | 0.244 | 0.264 | 0.288 | 0.293 | 0.305 | 0.303 | 0.307 | 0.286 | 8.33 |
| 70) | TP | 1,3-Dichloropr | | 0.344 | 0.368 | 0.386 | 0.383 | 0.385 | 0.378 | 0.376 | 0.374 | 3.93 |
| 71) | TP | 1,2-Dibromoethane | | 0.182 | 0.218 | 0.222 | 0.224 | 0.227 | 0.224 | 0.224 | 0.217 | 7.23 |
| 72) | TP | 2-Hexanone | | 0.099 | 0.111 | 0.124 | 0.128 | 0.130 | 0.132 | 0.130 | 0.122 | 10.34 |
| 73) | TP | Chlorobenzene | | 0.825 | 0.912 | 0.932 | 0.936 | 0.957 | 0.942 | 0.934 | 0.920 | 4.75 |
| 74) | TP | Ethylbenzene | | 1.317 | 1.548 | 1.620 | 1.644 | 1.670 | 1.656 | 1.647 | 1.586 | 7.89 |
| 75) | TP | 1,1,1,2-Tetrac | | 0.264 | 0.307 | 0.323 | 0.329 | 0.339 | 0.335 | 0.335 | 0.319 | 8.34 |
| 76) | TP | p/m Xylene | | 0.516 | 0.617 | 0.643 | 0.657 | 0.671 | 0.662 | 0.652 | 0.631 | 8.51 |
| 77) | TP | o Xylene | | 0.494 | 0.586 | 0.612 | 0.628 | 0.643 | 0.632 | 0.617 | 0.602 | 8.48 |
| 78) | TP | Styrene | | 0.801 | 0.925 | 1.003 | 1.056 | 1.092 | 1.063 | 1.029 | 0.996 | 10.15 |
| 79) | I | 1,4-Dichlorobenzene-d4 | ----------------ISTD-------------------- | | | | | | | | | |
| 80) | TP | Bromoform | | 0.203 | 0.261 | 0.281 | 0.294 | 0.312 | 0.316 | 0.313 | 0.283 | 14.28 |
| 82) | TP | Isopropylbenzene | | 2.561 | 3.070 | 3.126 | 3.137 | 3.176 | 3.154 | 3.083 | 3.044 | 7.10 |
| 83) | S | 4-Bromofluorobenzene | 0.964 | 0.962 | 0.943 | 0.935 | 0.911 | 0.906 | 0.909 | 0.898 | 0.928 | 2.81 |
| 84) | TP | Bromobenzene | | 0.595 | 0.688 | 0.682 | 0.673 | 0.689 | 0.681 | 0.669 | 0.668 | 4.96 |

# Initial Calibration Summary
# Form 6
# Volatiles

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Instrument ID** | **: VOA101** | **Ical Ref** | **: ICAL21767** |
| **Calibration dates** | **: 12/07/24 00:30 12/07/24 04:49** | | |

Calibration Files

L11 =V01241206N03.D L1 =V01241206N05.D L2 =V01241206N07.D L3 =V01241206N09.D L4 =V01241206N10.D

L6 =V01241206N11.D L8 =V01241206N12.D L10 =V01241206N13.D

| | | Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 85) | TP | n-Propylbenzene | | 2.999 | 3.565 | 3.577 | 3.589 | 3.633 | 3.602 | 3.532 | 3.500 | 6.37 |
| 86) | TP | 1,4-Dichlorobu | | 0.939 | 0.784 | 0.759 | 0.747 | 0.766 | 0.765 | 0.751 | 0.787 | 8.63 |
| 87) | TP | 1,1,2,2-Tetrac | | 0.479 | 0.467 | 0.462 | 0.462 | 0.474 | 0.477 | 0.466 | 0.470 | 1.48 |
| 88) | TP | 4-Ethyltoluene | | 2.471 | 2.884 | 2.963 | 2.992 | 3.057 | 3.028 | 2.965 | 2.909 | 6.90 |
| 89) | TP | 2-Chlorotoluene | | 1.834 | 2.013 | 2.050 | 2.038 | 2.057 | 2.049 | 2.014 | 2.008 | 3.92 |
| 90) | TP | 1,3,5-Trimethy | | 2.184 | 2.398 | 2.518 | 2.538 | 2.602 | 2.588 | 2.550 | 2.482 | 5.95 |
| 91) | TP | 1,2,3-Trichlor | | 0.389 | 0.367 | 0.387 | 0.379 | 0.387 | 0.391 | 0.383 | 0.383 | 2.14 |
| 92) | TP | trans-1,4-Dich | | 0.133 | 0.144 | 0.149 | 0.153 | 0.159 | 0.161 | 0.157 | 0.151 | 6.56 |
| 93) | TP | 4-Chlorotoluene | | 1.774 | 2.030 | 2.082 | 2.076 | 2.125 | 2.109 | 2.085 | 2.040 | 5.94 |
| 94) | TP | tert-Butylbenzene | | 1.808 | 2.073 | 2.156 | 2.155 | 2.191 | 2.179 | 2.143 | 2.101 | 6.40 |
| 97) | TP | 1,2,4-Trimethy | | 2.086 | 2.366 | 2.442 | 2.443 | 2.516 | 2.489 | 2.450 | 2.399 | 6.07 |
| 98) | TP | sec-Butylbenzene | | 2.557 | 2.959 | 3.113 | 3.134 | 3.191 | 3.175 | 3.095 | 3.032 | 7.34 |
| 99) | TP | p-Isopropyltol | | 2.060 | 2.535 | 2.656 | 2.694 | 2.749 | 2.718 | 2.652 | 2.580 | 9.27 |
| 100) | TP | 1,3-Dichlorobe | | 1.126 | 1.233 | 1.292 | 1.292 | 1.325 | 1.313 | 1.287 | 1.267 | 5.42 |
| 101) | TP | 1,4-Dichlorobe | | 1.216 | 1.254 | 1.299 | 1.288 | 1.321 | 1.306 | 1.286 | 1.281 | 2.78 |
| 102) | TP | p-Diethylbenzene | | 1.156 | 1.401 | 1.499 | 1.530 | 1.577 | 1.565 | 1.540 | 1.467 | 10.16 |
| 103) | TP | n-Butylbenzene | | 1.686 | 2.004 | 2.104 | 2.153 | 2.204 | 2.202 | 2.166 | 2.074 | 8.89 |
| 104) | TP | 1,2-Dichlorobe | | 0.938 | 1.091 | 1.124 | 1.124 | 1.157 | 1.147 | 1.132 | 1.102 | 6.84 |
| 105) | TP | 1,2,4,5-Tetram | | 1.740 | 1.920 | 2.046 | 2.066 | 2.176 | 2.151 | 2.122 | 2.032 | 7.58 |
| 106) | TP | 1,2-Dibromo-3- | | 0.035 | 0.057 | 0.058 | 0.062 | 0.066 | 0.068 | 0.067 | 0.059 | 19.43 |
| 107) | TP | 1,3,5-Trichlor | | 0.614 | 0.696 | 0.709 | 0.719 | 0.752 | 0.746 | 0.737 | 0.710 | 6.61 |
| 108) | TP | Hexachlorobuta | | 0.266 | 0.259 | 0.252 | 0.255 | 0.265 | 0.269 | 0.270 | 0.262 | 2.68 |
| 109) | TP | 1,2,4-Trichlor | | 0.492 | 0.553 | 0.570 | 0.566 | 0.589 | 0.595 | 0.595 | 0.566 | 6.43 |
| 110) | TP | Naphthalene | | 1.112 | 1.110 | 1.145 | 1.145 | 1.165 | 1.207 | 1.183 | 1.152 | 3.08 |
| 111) | TP | 1,2,3-Trichlor | | 0.416 | 0.418 | 0.433 | 0.431 | 0.443 | 0.452 | 0.451 | 0.435 | 3.38 |

Response Factor Report VOA105

Method Path : K:\VOA105\2024\241106AICAL\
Method File : V105_241106A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Nov 06 12:18:50 2024
Response Via : Initial Calibration

Calibration Files
L11 =V05241106A03.D L1 =V05241106A05.D L2 =V05241106A07.D L3 =V05241106A09.D L4 =V05241106A10.D
L6 =V05241106A11.D L8 =V05241106A12.D L10 =V05241106A13.D

| | | Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Fluorobenzene | ----------------ISTD--------------------- | | | | | | | | | |
| 2) | TP | Dichlorodifluo... | | 0.257 | 0.348 | 0.339 | 0.352 | 0.349 | 0.339 | 0.321 | 0.329 | 10.18 |
| 3) | TP | Chloromethane | | 0.368 | 0.453 | 0.465 | 0.475 | 0.477 | 0.478 | 0.478 | 0.456 | 8.76 |
| 4) | TP | Vinyl chloride | 0.362 | 0.297 | 0.402 | 0.397 | 0.415 | 0.422 | 0.410 | 0.395 | 0.388 | 10.56 |
| 5) | TP | Bromomethane | | 0.057 | 0.058 | 0.069 | 0.080 | 0.097 | 0.114 | 0.129 | *Q | 0.9990 |
| 6) | TP | Chloroethane | | 0.175 | 0.205 | 0.192 | 0.207 | 0.188 | 0.183 | 0.171 | 0.189 | 7.31 |
| 7) | TP | Trichlorofluor... | | 0.303 | 0.396 | 0.390 | 0.427 | 0.401 | 0.393 | 0.375 | 0.384 | 10.17 |
| 8) | TP | Ethyl ether | | 0.078 | 0.084 | 0.088 | 0.093 | 0.085 | 0.089 | 0.085 | 0.086 | 5.32 |
| 10) | TP | 1,1-Dichloroet... | | 0.164 | 0.202 | 0.190 | 0.194 | 0.194 | 0.195 | 0.189 | 0.190 | 6.33 |
| 11) | TP | Carbon disulfide | | 0.523 | 0.624 | 0.607 | 0.632 | 0.643 | 0.647 | 0.633 | 0.616 | 6.95 |
| 12) | TP | Freon-113 | | 0.156 | 0.221 | 0.214 | 0.219 | 0.216 | 0.215 | 0.205 | 0.207 | 11.05 |
| 14) | TP | Acrolein | | 0.049 | 0.031 | 0.037 | 0.038 | 0.038 | 0.036 | 0.034 | 0.038 | 15.09 |
| 15) | TP | Methylene chlo... | | 0.285 | 0.258 | 0.244 | 0.237 | 0.231 | 0.229 | 0.226 | 0.244 | 8.61 |
| 17) | TP | Acetone | | 0.099 | 0.063 | 0.065 | 0.061 | 0.065 | 0.069 | 0.063 | 0.069 | 19.45 |
| 18) | TP | trans-1,2-Dich... | | 0.203 | 0.240 | 0.246 | 0.247 | 0.240 | 0.233 | 0.230 | 0.234 | 6.49 |
| 19) | TP | Methyl acetate | | | 0.143 | 0.168 | 0.180 | 0.181 | 0.177 | 0.160 | 0.168 | 8.83 |
| 20) | TP | Methyl tert-bu... | | 0.449 | 0.481 | 0.528 | 0.523 | 0.517 | 0.515 | 0.500 | 0.502 | 5.64 |
| 21) | TP | tert-Butyl alc... | | 0.014 | 0.015 | 0.016 | 0.016 | 0.017 | 0.017 | 0.015 | 0.016 | 5.55 |
| 22) | TP | Diisopropyl ether | | 1.150 | 1.315 | 1.451 | 1.467 | 1.438 | 1.392 | 1.306 | 1.360 | 8.28 |
| 23) | TP | 1,1-Dichloroet... | | 0.544 | 0.620 | 0.620 | 0.622 | 0.601 | 0.586 | 0.571 | 0.595 | 4.93 |
| 24) | TP | Halothane | | 0.157 | 0.188 | 0.194 | 0.198 | 0.193 | 0.189 | 0.186 | 0.186 | 7.33 |
| 25) | TP | Acrylonitrile | | | 0.090 | 0.096 | 0.094 | 0.095 | 0.095 | 0.088 | 0.093 | 3.30 |
| 26) | TP | Ethyl tert-but... | | 0.807 | 0.912 | 1.023 | 1.021 | 1.011 | 1.006 | 0.964 | 0.963 | 8.28 |
| 27) | TP | Vinyl acetate | | 0.531 | 0.615 | 0.740 | 0.797 | 0.855 | 0.837 | 0.754 | 0.733 | 16.25 |
| 28) | TP | cis-1,2-Dichlo... | | 0.216 | 0.280 | 0.273 | 0.273 | 0.263 | 0.258 | 0.254 | 0.259 | 8.20 |
| 29) | TP | 2,2-Dichloropr... | | 0.311 | 0.388 | 0.390 | 0.397 | 0.388 | 0.378 | 0.371 | 0.375 | 7.87 |
| 30) | TP | Bromochloromet... | | 0.109 | 0.124 | 0.126 | 0.119 | 0.107 | 0.105 | 0.102 | 0.113 | 8.44 |
| 31) | TP | Cyclohexane | | 0.658 | 0.819 | 0.831 | 0.836 | 0.814 | 0.791 | 0.753 | 0.786 | 8.02 |
| 32) | TP | Chloroform | | 0.394 | 0.436 | 0.446 | 0.437 | 0.430 | 0.420 | 0.415 | 0.426 | 4.07 |
| 33) | TP | Ethyl acetate | | 0.152 | 0.220 | 0.256 | 0.272 | 0.276 | 0.276 | 0.254 | 0.244 | 18.43 |
| 34) | TP | Carbon tetrach... | 0.330 | 0.290 | 0.364 | 0.387 | 0.391 | 0.402 | 0.393 | 0.387 | 0.368 | 10.56 |

Response Factor Report VOA105

Method Path : K:\VOA105\2024\241106AICAL\
Method File : V105_241106A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Nov 06 12:18:50 2024
Response Via : Initial Calibration

Calibration Files
L11 =V05241106A03.D L1 =V05241106A05.D L2 =V05241106A07.D L3 =V05241106A09.D L4 =V05241106A10.D
L6 =V05241106A11.D L8 =V05241106A12.D L10 =V05241106A13.D

| | | Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35) | TP | Tetrahydrofuran | | 0.092 | 0.069 | 0.076 | 0.077 | 0.076 | 0.087 | 0.067 | 0.078 | 11.85 |
| 36) | S | Dibromofluorom... | 0.267 | 0.263 | 0.265 | 0.257 | 0.257 | 0.252 | 0.253 | 0.248 | 0.258 | 2.65 |
| 37) | TP | 1,1,1-Trichlor... | | 0.333 | 0.408 | 0.419 | 0.424 | 0.417 | 0.405 | 0.398 | 0.401 | 7.74 |
| 39) | TP | 2-Butanone | | | 0.078 | 0.110 | 0.113 | 0.119 | 0.117 | 0.106 | 0.107 | 14.18 |
| 40) | TP | 1,1-Dichloropr... | | 0.290 | 0.344 | 0.356 | 0.358 | 0.356 | 0.350 | 0.343 | 0.343 | 7.03 |
| 41) | TP | Benzene | 0.871 | 0.871 | 0.968 | 1.015 | 1.014 | 1.004 | 0.993 | 0.977 | 0.964 | 6.20 |
| 42) | TP | tert-Amyl meth... | | 0.480 | 0.506 | 0.569 | 0.569 | 0.577 | 0.580 | 0.565 | 0.550 | 7.18 |
| 43) | S | 1,2-Dichloroet... | 0.342 | 0.343 | 0.345 | 0.354 | 0.337 | 0.328 | 0.334 | 0.333 | 0.340 | 2.44 |
| 44) | TP | 1,2-Dichloroet... | | 0.354 | 0.394 | 0.405 | 0.394 | 0.388 | 0.380 | 0.363 | 0.383 | 4.78 |
| 47) | TP | Methyl cyclohe... | | 0.325 | 0.414 | 0.451 | 0.460 | 0.456 | 0.452 | 0.435 | 0.428 | 11.19 |
| 48) | TP | Trichloroethene | 0.324 | 0.217 | 0.273 | 0.261 | 0.268 | 0.264 | 0.257 | 0.253 | 0.265 | 11.10 |
| 50) | TP | Dibromomethane | | 0.121 | 0.124 | 0.136 | 0.133 | 0.132 | 0.133 | 0.129 | 0.130 | 3.96 |
| 51) | TP | 1,2-Dichloropr... | | 0.288 | 0.325 | 0.339 | 0.346 | 0.342 | 0.337 | 0.331 | 0.330 | 5.93 |
| 53) | TP | 2-Chloroethyl ... | | 0.106 | 0.131 | 0.167 | 0.169 | 0.165 | 0.166 | 0.157 | 0.152 | 15.80 |
| 54) | TP | Bromodichlorom... | | 0.268 | 0.310 | 0.333 | 0.336 | 0.337 | 0.334 | 0.328 | 0.321 | 7.85 |
| 57) | TP | 1,4-Dioxane | | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001# | 6.39 |
| 58) | TP | cis-1,3-Dichlo... | 0.301 | 0.299 | 0.353 | 0.383 | 0.396 | 0.401 | 0.399 | 0.393 | 0.365 | 11.87 |
| 59) | I | Chlorobenzene-d5 | ----------------ISTD--------------------- | | | | | | | | | |
| 60) | S | Toluene-d8 | 1.240 | 1.246 | 1.247 | 1.265 | 1.271 | 1.249 | 1.251 | 1.259 | 1.253 | 0.83 |
| 61) | TP | Toluene | | 0.663 | 0.809 | 0.839 | 0.840 | 0.812 | 0.811 | 0.801 | 0.796 | 7.62 |
| 62) | TP | 4-Methyl-2-pen... | | 0.070 | 0.087 | 0.115 | 0.112 | 0.115 | 0.116 | 0.110 | 0.104 | 17.19 |
| 63) | TP | Tetrachloroethene | | 0.284 | 0.339 | 0.369 | 0.372 | 0.363 | 0.360 | 0.357 | 0.349 | 8.78 |
| 65) | TP | trans-1,3-Dich... | 0.275 | 0.317 | 0.351 | 0.422 | 0.442 | 0.434 | 0.437 | 0.424 | 0.388 | 16.61 |
| 67) | TP | Ethyl methacry... | | 0.164 | 0.233 | 0.279 | 0.280 | 0.274 | 0.281 | 0.270 | 0.255 | 17.06 |
| 68) | TP | 1,1,2-Trichlor... | | 0.145 | 0.178 | 0.201 | 0.197 | 0.190 | 0.191 | 0.185 | 0.184# | 10.09 |
| 69) | TP | Chlorodibromom... | | 0.206 | 0.254 | 0.313 | 0.314 | 0.315 | 0.318 | 0.313 | 0.290 | 14.98 |
| 70) | TP | 1,3-Dichloropr... | | 0.351 | 0.397 | 0.433 | 0.424 | 0.413 | 0.414 | 0.402 | 0.405 | 6.59 |
| 71) | TP | 1,2-Dibromoethane | | 0.176 | 0.212 | 0.243 | 0.243 | 0.241 | 0.243 | 0.236 | 0.228 | 11.15 |
| 72) | TP | 2-Hexanone | | 0.134 | 0.150 | 0.205 | 0.209 | 0.212 | 0.215 | 0.198 | 0.189 | 17.40 |
| 73) | TP | Chlorobenzene | | 0.752 | 0.866 | 0.909 | 0.901 | 0.875 | 0.872 | 0.862 | 0.862 | 6.00 |
| 74) | TP | Ethylbenzene | | 1.360 | 1.599 | 1.680 | 1.680 | 1.619 | 1.604 | 1.561 | 1.586 | 6.85 |

Response Factor Report VOA105

Method Path : K:\VOA105\2024\241106AICAL\
Method File : V105_241106A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Nov 06 12:18:50 2024
Response Via : Initial Calibration

Calibration Files
L11 =V05241106A03.D L1 =V05241106A05.D L2 =V05241106A07.D L3 =V05241106A09.D L4 =V05241106A10.D
L6 =V05241106A11.D L8 =V05241106A12.D L10 =V05241106A13.D

| | | Compound | | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75) | TP | 1,1,1,2-Tetrac... | | 0.252 | 0.273 | 0.323 | 0.323 | 0.320 | 0.318 | 0.313 | 0.303 | 9.43 | |
| 76) | TP | p/m Xylene | | 0.498 | 0.609 | 0.641 | 0.638 | 0.622 | 0.613 | 0.589 | 0.601 | 8.16 | |
| 77) | TP | o Xylene | | 0.489 | 0.583 | 0.609 | 0.607 | 0.587 | 0.585 | 0.566 | 0.575 | 7.08 | |
| 78) | TP | Styrene | | 0.776 | 0.932 | 0.990 | 0.991 | 0.963 | 0.952 | 0.901 | 0.929 | 8.05 | |
| 79) | I | 1,4-Dichlorobenzene-d4 ----------------ISTD-------------------- | | | | | | | | | | | |
| 80) | TP | Bromoform | | 0.187 | 0.242 | 0.307 | 0.322 | 0.333 | 0.343 | 0.339 | 0.296 | 19.91 | |
| 82) | TP | Isopropylbenzene | | 2.528 | 3.072 | 3.248 | 3.254 | 3.228 | 3.235 | 3.217 | 3.112 | 8.51 | |
| 83) | S | 4-Bromofluorob... | 0.897 | 0.890 | 0.890 | 0.917 | 0.908 | 0.918 | 0.929 | 0.929 | 0.910 | 1.77 | |
| 84) | TP | Bromobenzene | | 0.541 | 0.682 | 0.710 | 0.688 | 0.692 | 0.699 | 0.694 | 0.672 | 8.69 | |
| 85) | TP | n-Propylbenzene | | 2.842 | 3.588 | 3.771 | 3.748 | 3.770 | 3.741 | 3.547 | 3.572 | 9.37 | |
| 86) | TP | 1,4-Dichlorobu... | | 1.063 | 1.087 | 1.248 | 1.201 | 1.209 | 1.211 | 1.160 | 1.168 | 5.91 | |
| 87) | TP | 1,1,2,2-Tetrac... | | 0.433 | 0.447 | 0.511 | 0.499 | 0.509 | 0.518 | 0.503 | 0.489 | 6.97 | |
| 88) | TP | 4-Ethyltoluene | | 2.364 | 2.926 | 3.086 | 3.073 | 3.065 | 3.071 | 3.014 | 2.943 | 8.87 | |
| 89) | TP | 2-Chlorotoluene | | 1.788 | 2.048 | 2.104 | 2.063 | 2.085 | 2.087 | 2.080 | 2.037 | 5.45 | |
| 90) | TP | 1,3,5-Trimethy... | | 2.090 | 2.628 | 2.695 | 2.683 | 2.641 | 2.624 | 2.574 | 2.562 | 8.28 | |
| 91) | TP | 1,2,3-Trichlor... | | 0.380 | 0.375 | 0.417 | 0.408 | 0.410 | 0.416 | 0.399 | 0.401 | 4.25 | |
| 92) | TP | trans-1,4-Dich... | | 0.156 | 0.190 | 0.226 | 0.237 | 0.233 | 0.233 | 0.231 | 0.215 | 14.22 | |
| 93) | TP | 4-Chlorotoluene | | 1.896 | 2.117 | 2.227 | 2.157 | 2.168 | 2.169 | 2.166 | 2.129 | 5.05 | |
| 94) | TP | tert-Butylbenzene | | 1.811 | 2.228 | 2.335 | 2.344 | 2.366 | 2.362 | 2.329 | 2.253 | 8.91 | |
| 97) | TP | 1,2,4-Trimethy... | | 1.970 | 2.421 | 2.605 | 2.598 | 2.588 | 2.551 | 2.520 | 2.465 | 9.23 | |
| 98) | TP | sec-Butylbenzene | | 2.563 | 3.244 | 3.380 | 3.367 | 3.411 | 3.366 | 3.186 | 3.217 | 9.31 | |
| 99) | TP | p-Isopropyltol... | | 2.191 | 2.798 | 2.971 | 2.952 | 2.964 | 2.923 | 2.834 | 2.805 | 9.95 | |
| 100) | TP | 1,3-Dichlorobe... | | 1.176 | 1.283 | 1.386 | 1.357 | 1.357 | 1.354 | 1.334 | 1.321 | 5.40 | |
| 101) | TP | 1,4-Dichlorobe... | | 1.140 | 1.371 | 1.381 | 1.343 | 1.348 | 1.339 | 1.317 | 1.320 | 6.23 | |
| 102) | TP | p-Diethylbenzene | | 1.257 | 1.563 | 1.704 | 1.710 | 1.727 | 1.722 | 1.693 | 1.625 | 10.57 | |
| 103) | TP | n-Butylbenzene | | 1.752 | 2.225 | 2.376 | 2.433 | 2.419 | 2.409 | 2.329 | 2.277 | 10.64 | |
| 104) | TP | 1,2-Dichlorobe... | | 1.030 | 1.192 | 1.257 | 1.214 | 1.232 | 1.218 | 1.195 | 1.191 | 6.25 | |
| 105) | TP | 1,2,4,5-Tetram... | | 1.851 | 2.212 | 2.445 | 2.505 | 2.548 | 2.510 | 2.445 | 2.359 | 10.58 | |
| 106) | TP | 1,2-Dibromo-3-... | | 0.043 | 0.056 | 0.073 | 0.076 | 0.082 | 0.082 | 0.079 | *L | 0.9993 | |
| 107) | TP | 1,3,5-Trichlor... | | 0.735 | 0.840 | 0.937 | 0.928 | 0.933 | 0.927 | 0.892 | 0.885 | 8.41 | |
| 108) | TP | Hexachlorobuta... | | 0.262 | 0.313 | 0.330 | 0.334 | 0.347 | 0.349 | 0.340 | 0.325 | 9.28 | |

Response Factor Report VOA105

Method Path : K:\VOA105\2024\241106AICAL\
Method File : V105_241106A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Nov 06 12:18:50 2024
Response Via : Initial Calibration

Calibration Files
L11 =V05241106A03.D L1 =V05241106A05.D L2 =V05241106A07.D L3 =V05241106A09.D L4 =V05241106A10.D
L6 =V05241106A11.D L8 =V05241106A12.D L10 =V05241106A13.D

| | Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 109) TP | 1,2,4-Trichlor... | 0.578 | 0.714 | 0.793 | 0.802 | 0.805 | 0.803 | 0.771 | 0.752 | | 11.08 |
| 110) TP | Naphthalene | 1.376 | 1.519 | 1.763 | 1.768 | 1.777 | 1.783 | 1.688 | 1.668 | | 9.55 |
| 111) TP | 1,2,3-Trichlor... | 0.514 | 0.584 | 0.674 | 0.673 | 0.675 | 0.674 | 0.647 | 0.635 | | 9.87 |

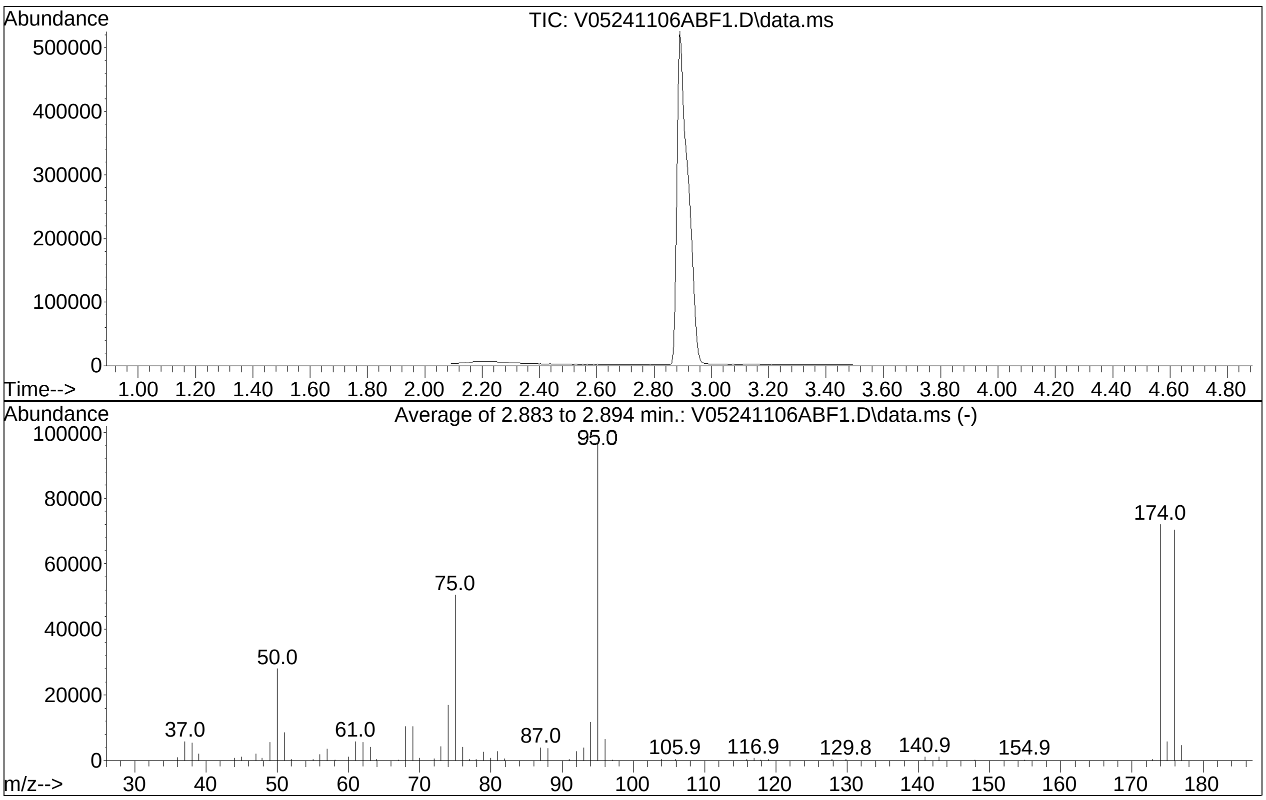
(#) = Out of Range

BFB

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106ABF1.D
Acq On : 6 Nov 2024 3:09 am
Operator : VOA105:PID
Sample : WG1993889-1
Misc : WG1993889
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Nov 06 11:41:24 2024




AutoFind: Scans 146, 147, 148; Background Corrected with Scan 139

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 28.8 | 27957 | PASS |
| 75 | 95 | 30 | 60 | 51.9 | 50472 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 97160 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 6582 | PASS |
| 173 | 174 | 0.00 | 2 | 0.6 | 444 | PASS |
| 174 | 95 | 50 | 100 | 74.2 | 72075 | PASS |
| 175 | 174 | 5 | 9 | 8.0 | 5769 | PASS |
| 176 | 174 | 95 | 101 | 97.7 | 70427 | PASS |
| 177 | 176 | 5 | 9 | 6.6 | 4625 | PASS |

Quantitation Report (QT Reviewed)

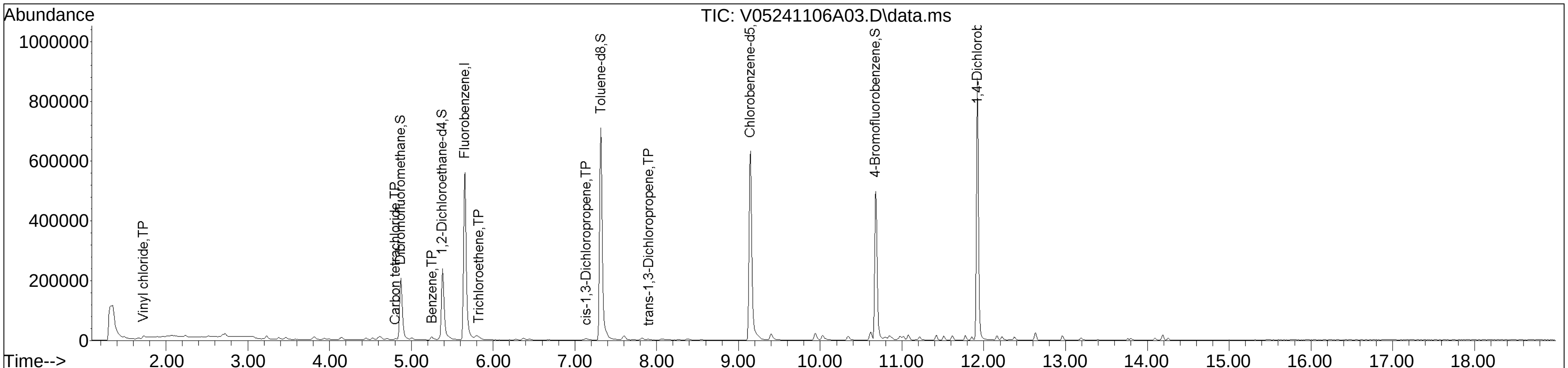
```
Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A03.D
Acq On    :  6 Nov 2024   4:25 am
Operator  : VOA105:PID
Sample    : I8260STD0.19PPB
Misc      : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Nov 06 11:36:40 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List     : 8260-L11_MCP - L11 MCP

       Compound                     R.T. QIon  Response  Conc Units Dev(Min)
 --------------------------------------------------------------------------
 Internal Standards
 1) Fluorobenzene                 5.655   96    558037    10.000 ug/L     0.00
   Standard Area 1 = 541185                   Recovery   =  103.11%
59) Chlorobenzene-d5              9.147  117    436332    10.000 ug/L     0.00
   Standard Area 1 = 409349                   Recovery   =  106.59%
79) 1,4-Dichlorobenzene-d4       11.920  152    231839    10.000 ug/L     0.00
   Standard Area 1 = 216300                   Recovery   =  107.18%

 System Monitoring Compounds
36) Dibromofluoromethane          4.872  113    148871    10.353 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =  103.53%
43) 1,2-Dichloroethane-d4         5.381   65    190976    10.075 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =  100.75%
60) Toluene-d8                    7.318   98    540873     9.889 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =   98.89%
83) 4-Bromofluorobenzene         10.676   95    207904     9.858 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =   98.58%

 Target Compounds                                                    Qvalue
 4) Vinyl chloride                1.723   62       3842M6    0.178 ug/L
34) Carbon tetrachloride          4.804  117       3499      0.170 ug/L      95
41) Benzene                       5.254   78       9240      0.172 ug/L #    77
48) Trichloroethene               5.831   95       3430      0.232 ug/L #    81
58) cis-1,3-Dichloropropene       7.142   75       3188      0.156 ug/L #    58
65) trans-1,3-Dichloropropene     7.905   75       2282      0.135 ug/L #    31
 --------------------------------------------------------------------------

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

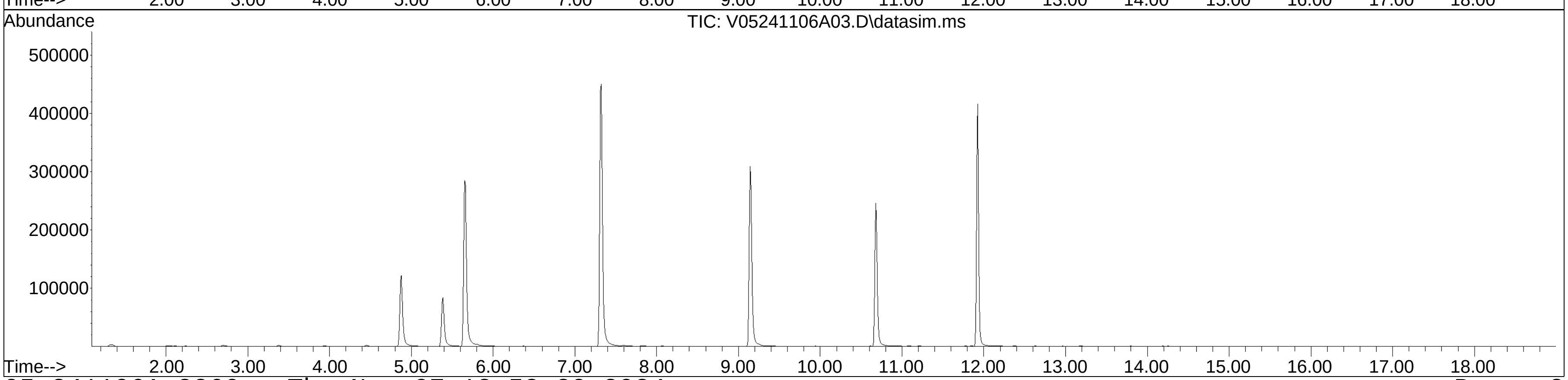
Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A03.D
Acq On : 6 Nov 2024 4:25 am
Operator : VOA105:PID
Sample : I8260STD0.19PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 06 11:36:40 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

Sub List : 8260-L11_MCP - L11 MCP106AICAL\V05241106A09.D•

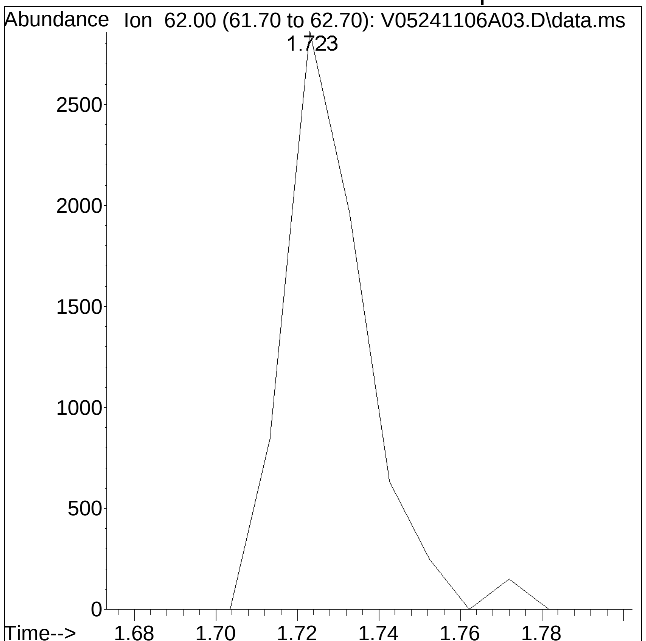


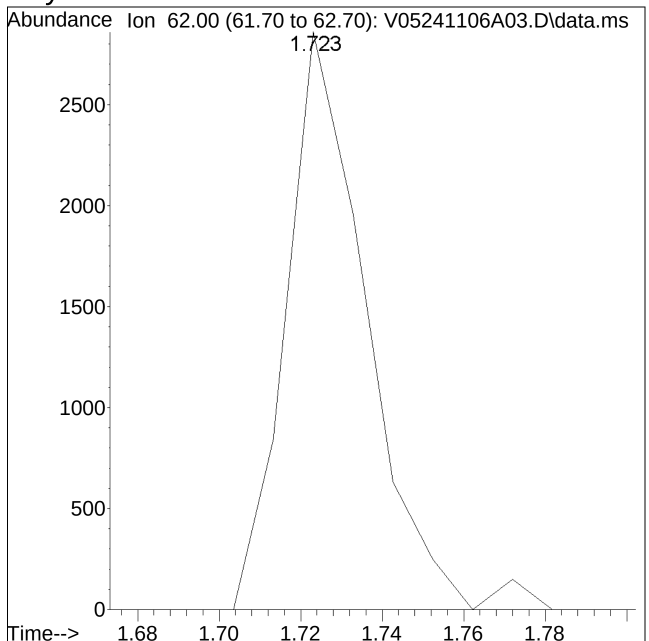



Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Method : V105_241106A_8260.m
Data File : V05241106A03.D
Operator : VOA105:PID
Date Inj'd : 11/6/2024 4:25 am
Instrument : VOA105
Sample : I8260STD0.19PPB
Quant Date : 11/6/2024 11:36 am

Compound #4: Vinyl chloride




Original Peak Response = 3929
Manual Peak Response = 3842 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A05.D
Acq On : 6 Nov 2024 5:16 am
Operator : VOA105:PID
Sample : I8260STD0.5PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 06 11:36:48 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) Fluorobenzene | 5.655 | 96 | 536534 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 541185 | | | Recovery | = 99.14% | |
| 59) Chlorobenzene-d5 | 9.147 | 117 | 419979 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 409349 | | | Recovery | = 102.60% | |
| 79) 1,4-Dichlorobenzene-d4 | 11.920 | 152 | 222756 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 216300 | | | Recovery | = 102.98% | |
| **System Monitoring Compounds** | | | | | |
| 36) Dibromofluoromethane | 4.872 | 113 | 141282 | 10.219 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 102.19% | |
| 43) 1,2-Dichloroethane-d4 | 5.381 | 65 | 184274 | 10.111 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 101.11% | |
| 60) Toluene-d8 | 7.318 | 98 | 523410 | 9.943 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 99.43% | |
| 83) 4-Bromofluorobenzene | 10.675 | 95 | 198231 | 9.783 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 97.83% | |

| Target Compounds | R.T. | QIon | Response | Conc Units | Qvalue |
|---|---|---|---|---|---|
| 2) Dichlorodifluoromethane | 1.488 | 85 | 6900 | 0.390 ug/L # | 94 |
| 3) Chloromethane | 1.664 | 50 | 9874 | 0.403 ug/L | 96 |
| 4) Vinyl chloride | 1.723 | 62 | 7963 | 0.383 ug/L | 98 |
| 5) Bromomethane | 2.007 | 94 | 1522 | 0.330 ug/L | 90 |
| 6) Chloroethane | 2.114 | 64 | 4702M6 | 0.464 ug/L | |
| 7) Trichlorofluoromethane | 2.241 | 101 | 8119M6 | 0.395 ug/L | |
| 8) Ethyl ether | 2.525 | 74 | 2085 | 0.453 ug/L # | 1 |
| 10) 1,1-Dichloroethene | 2.701 | 96 | 4403 | 0.433 ug/L # | 54 |
| 11) Carbon disulfide | 2.721 | 76 | 14038 | 0.425 ug/L | 98 |
| 12) Freon-113 | 2.730 | 101 | 4191 | 0.378 ug/L # | 55 |
| 14) Acrolein | 3.024 | 56 | 1322M6 | 0.656 ug/L | |
| 15) Methylene chloride | 3.229 | 84 | 7653 | 0.584 ug/L # | 15 |
| 17) Acetone | 3.307 | 43 | 2659 | 0.717 ug/L # | 78 |
| 18) trans-1,2-Dichloroethene | 3.376 | 96 | 5434 | 0.433 ug/L # | 68 |
| 19) Methyl acetate | 0.000 | | 0 | N.D. d | |
| 20) Methyl tert-butyl ether | 3.464 | 73 | 12035 | 0.447 ug/L # | 48 |
| 21) tert-Butyl alcohol | 3.591 | 59 | 1922 | 2.262 ug/L # | 71 |
| 22) Diisopropyl ether | 3.806 | 45 | 30840 | 0.423 ug/L # | 85 |
| 23) 1,1-Dichloroethane | 3.933 | 63 | 14601 | 0.457 ug/L | 90 |
| 24) Halothane | 3.992 | 117 | 4203 | 0.420 ug/L | 91 |
| 25) Acrylonitrile | 0.000 | | 0 | N.D. d | |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A05.D
Acq On : 6 Nov 2024 5:16 am
Operator : VOA105:PID
Sample : I8260STD0.5PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 06 11:36:48 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 26) Ethyl tert-butyl ether | 4.139 | 59 | 21638 | 0.419 | ug/L # | 63 |
| 27) Vinyl acetate | 4.217 | 43 | 14242M3 | 0.362 | ug/L | |
| 28) cis-1,2-Dichloroethene | 4.442 | 96 | 5792 | 0.416 | ug/L # | 51 |
| 29) 2,2-Dichloropropane | 4.530 | 77 | 8339 | 0.415 | ug/L # | 54 |
| 30) Bromochloromethane | 4.638 | 128 | 2921 | 0.482 | ug/L # | 14 |
| 31) Cyclohexane | 4.608 | 56 | 17662 | 0.419 | ug/L # | 45 |
| 32) Chloroform | 4.706 | 83 | 10577 | 0.463 | ug/L # | 87 |
| 33) Ethyl acetate | 4.853 | 43 | 4087M6 | 0.312 | ug/L | |
| 34) Carbon tetrachloride | 4.814 | 117 | 7780 | 0.394 | ug/L | 99 |
| 35) Tetrahydrofuran | 4.853 | 42 | 2472M6 | 0.593 | ug/L | |
| 37) 1,1,1-Trichloroethane | 4.882 | 97 | 8940 | 0.416 | ug/L # | 85 |
| 39) 2-Butanone | 0.000 | | 0 | N.D. | d | |
| 40) 1,1-Dichloropropene | 5.009 | 75 | 7770 | 0.423 | ug/L | 96 |
| 41) Benzene | 5.244 | 78 | 23360 | 0.452 | ug/L # | 80 |
| 42) tert-Amyl methyl ether | 5.352 | 73 | 12886 | 0.437 | ug/L # | 86 |
| 44) 1,2-Dichloroethane | 5.459 | 62 | 9507 | 0.463 | ug/L | 97 |
| 47) Methyl cyclohexane | 5.802 | 83 | 8720 | 0.380 | ug/L # | 6 |
| 48) Trichloroethene | 5.831 | 95 | 5815 | 0.409 | ug/L | 97 |
| 50) Dibromomethane | 6.281 | 93 | 3255 | 0.467 | ug/L | 95 |
| 51) 1,2-Dichloropropane | 6.369 | 63 | 7735 | 0.437 | ug/L # | 81 |
| 53) 2-Chloroethyl vinyl ether | 7.093 | 63 | 2847 | 0.350 | ug/L # | 51 |
| 54) Bromodichloromethane | 6.447 | 83 | 7180 | 0.417 | ug/L # | 95 |
| 57) 1,4-Dioxane | 6.652 | 88 | 6197 | 95.978 | ug/L # | 26 |
| 58) cis-1,3-Dichloropropene | 7.132 | 75 | 8010 | 0.409 | ug/L # | 60 |
| 61) Toluene | 7.376 | 92 | 13929 | 0.416 | ug/L | 97 |
| 62) 4-Methyl-2-pentanone | 7.836 | 58 | 1470 | 0.338 | ug/L # | 13 |
| 63) Tetrachloroethene | 7.816 | 166 | 5959 | 0.407 | ug/L | 88 |
| 65) trans-1,3-Dichloropropene | 7.895 | 75 | 6649 | 0.408 | ug/L # | 59 |
| 67) Ethyl methacrylate | 8.080 | 69 | 3442M6 | 0.322 | ug/L | |
| 68) 1,1,2-Trichloroethane | 8.061 | 83 | 3054 | 0.395 | ug/L | 94 |
| 69) Chlorodibromomethane | 8.257 | 129 | 4327 | 0.355 | ug/L | 95 |
| 70) 1,3-Dichloropropane | 8.374 | 76 | 7373 | 0.434 | ug/L | 93 |
| 71) 1,2-Dibromoethane | 8.540 | 107 | 3695 | 0.387 | ug/L | 97 |
| 72) 2-Hexanone | 8.873 | 43 | 2814M3 | 0.355 | ug/L | |
| 73) Chlorobenzene | 9.167 | 112 | 15792 | 0.436 | ug/L # | 85 |
| 74) Ethylbenzene | 9.206 | 91 | 28561 | 0.429 | ug/L | 99 |
| 75) 1,1,1,2-Tetrachloroethane | 9.255 | 131 | 5288 | 0.415 | ug/L # | 77 |
| 76) p/m Xylene | 9.392 | 106 | 20899 | 0.828 | ug/L | 93 |
| 77) o Xylene | 9.941 | 106 | 20544 | 0.850 | ug/L | 87 |
| 78) Styrene | 10.019 | 104 | 32581 | 0.835 | ug/L | 88 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A05.D
Acq On : 6 Nov 2024 5:16 am
Operator : VOA105:PID
Sample : I8260STD0.5PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 06 11:36:48 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 80) | Bromoform | 10.049 | 173 | 2088 | 0.316 | ug/L | | 93 |
| 82) | Isopropylbenzene | 10.342 | 105 | 28155 | 0.406 | ug/L | | 95 |
| 84) | Bromobenzene | 10.793 | 156 | 6029 | 0.403 | ug/L | | 90 |
| 85) | n-Propylbenzene | 10.842 | 91 | 31653 | 0.398 | ug/L | | 96 |
| 86) | 1,4-Dichlorobutane | 10.871 | 55 | 11843 | 0.455 | ug/L | # | 86 |
| 87) | 1,1,2,2-Tetrachloroethane | 10.950 | 83 | 4824 | 0.443 | ug/L | | 96 |
| 88) | 4-Ethyltoluene | 10.979 | 105 | 26335 | 0.402 | ug/L | | 96 |
| 89) | 2-Chlorotoluene | 11.018 | 91 | 19914M6 | 0.439 | ug/L | | |
| 90) | 1,3,5-Trimethylbenzene | 11.077 | 105 | 23277 | 0.408 | ug/L | | 93 |
| 91) | 1,2,3-Trichloropropane | 11.087 | 75 | 4231 | 0.474 | ug/L | | 91 |
| 92) | trans-1,4-Dichloro-2-b... | 11.165 | 53 | 1737 | 0.362 | ug/L | # | 53 |
| 93) | 4-Chlorotoluene | 11.214 | 91 | 21119 | 0.445 | ug/L | | 98 |
| 94) | tert-Butylbenzene | 11.420 | 119 | 20166 | 0.402 | ug/L | | 94 |
| 97) | 1,2,4-Trimethylbenzene | 11.508 | 105 | 21938 | 0.400 | ug/L | | 92 |
| 98) | sec-Butylbenzene | 11.616 | 105 | 28546 | 0.398 | ug/L | | 99 |
| 99) | p-Isopropyltoluene | 11.773 | 119 | 24400 | 0.391 | ug/L | | 97 |
| 100) | 1,3-Dichlorobenzene | 11.851 | 146 | 13100 | 0.445 | ug/L | | 92 |
| 101) | 1,4-Dichlorobenzene | 11.939 | 146 | 12692M3 | 0.432 | ug/L | | |
| 102) | p-Diethylbenzene | 12.155 | 119 | 13999 | 0.387 | ug/L | | 99 |
| 103) | n-Butylbenzene | 12.223 | 91 | 19514 | 0.385 | ug/L | | 97 |
| 104) | 1,2-Dichlorobenzene | 12.370 | 146 | 11469 | 0.432 | ug/L | | 94 |
| 105) | 1,2,4,5-Tetramethylben... | 12.958 | 119 | 20615 | 0.392 | ug/L | | 98 |
| 106) | 1,2-Dibromo-3-chloropr... | 13.164 | 155 | 476 | 0.305 | ug/L | | 100 |
| 107) | 1,3,5-Trichlorobenzene | 13.183 | 180 | 8186 | 0.415 | ug/L | | 94 |
| 108) | Hexachlorobutadiene | 13.761 | 225 | 2923 | 0.404 | ug/L | | 94 |
| 109) | 1,2,4-Trichlorobenzene | 13.791 | 180 | 6434 | 0.384 | ug/L | | 95 |
| 110) | Naphthalene | 14.084 | 128 | 15328 | 0.413 | ug/L | | 100 |
| 111) | 1,2,3-Trichlorobenzene | 14.251 | 180 | 5724 | 0.405 | ug/L | | 89 |

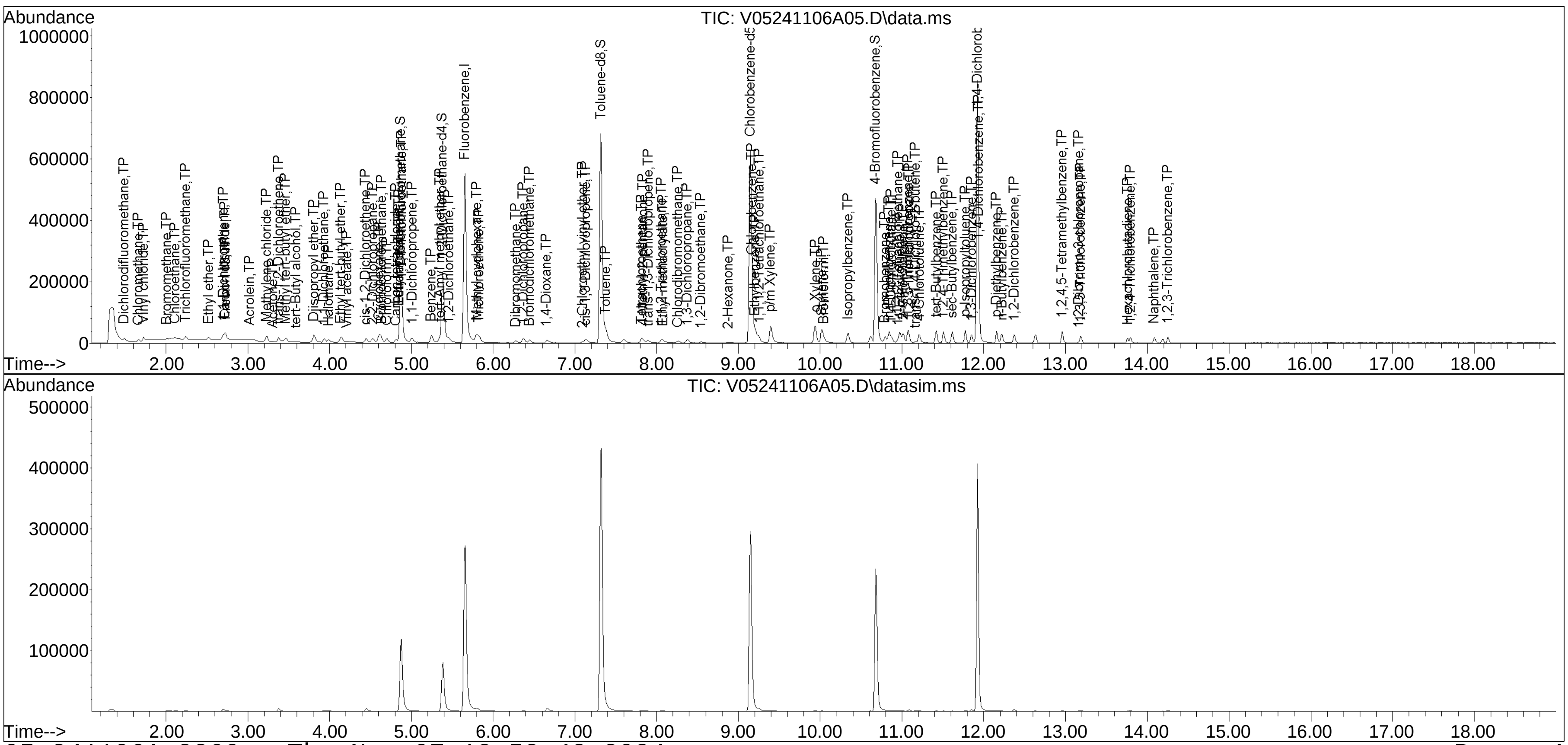
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A05.D
Acq On    :  6 Nov 2024   5:16 am
Operator  : VOA105:PID
Sample    : I8260STD0.5PPB
Misc      : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Nov 06 11:36:48 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

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

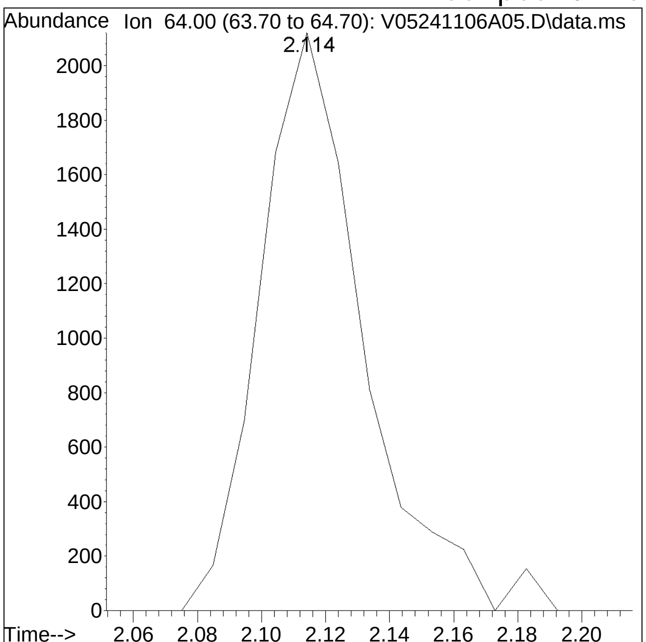


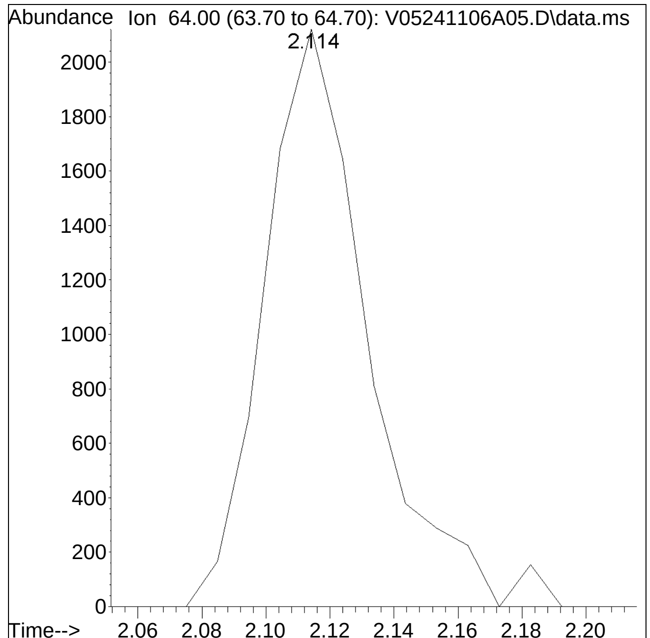
Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Data File : V05241106A05.D
Date Inj'd : 11/6/2024 5:16 am
Sample : I8260STD0.5PPB

Method : V105_241106A_8260.m
Operator : VOA105:PID
Instrument : VOA105
Quant Date : 11/6/2024 11:36 am

Compound #6: Chloroethane




Original Peak Response = 4792

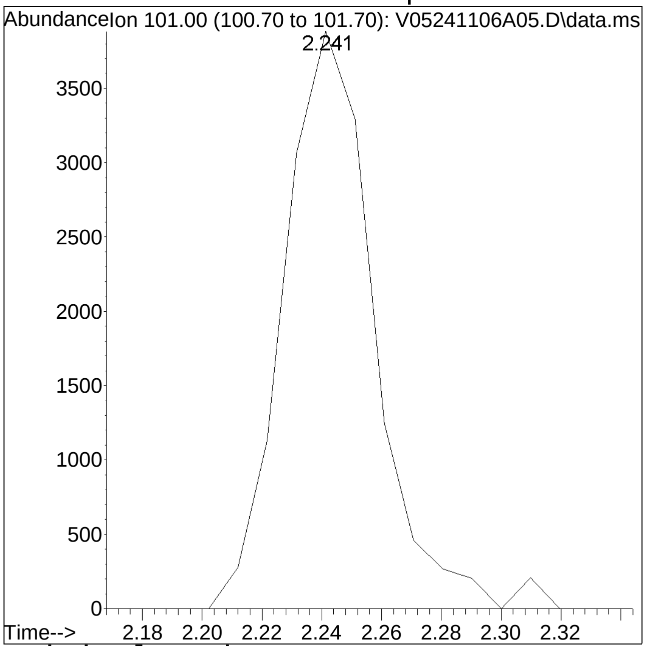
Manual Peak Response = 4702 M6

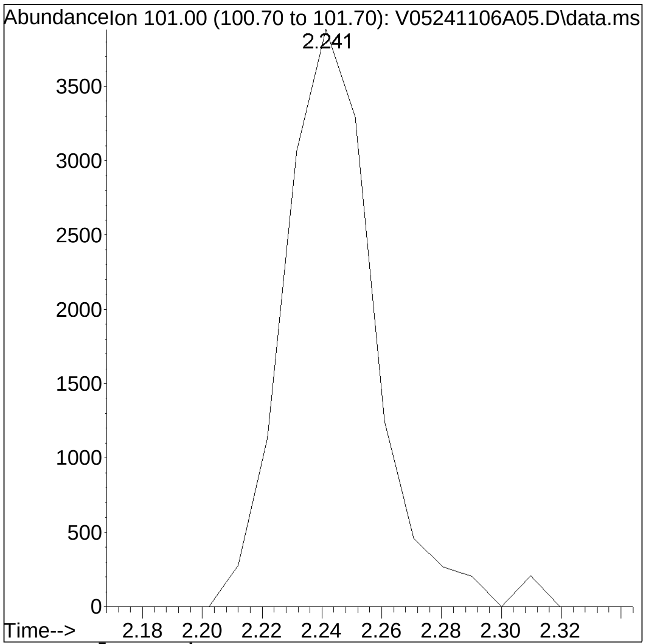
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Method : V105_241106A_8260.m
Data File : V05241106A05.D
Operator : VOA105:PID
Date Inj'd : 11/6/2024 5:16 am
Instrument : VOA105
Sample : I8260STD0.5PPB
Quant Date : 11/6/2024 11:36 am

Compound #7: Trichlorofluoromethane




Original Peak Response = 8242

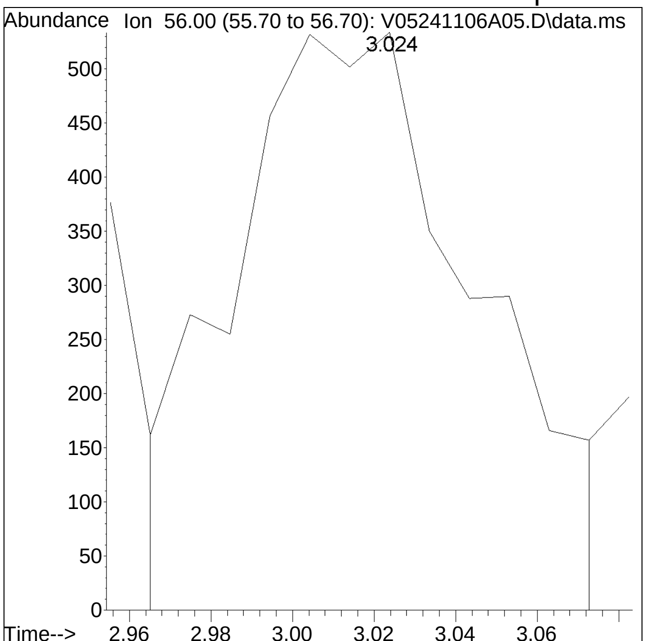
Manual Peak Response = 8119 M6

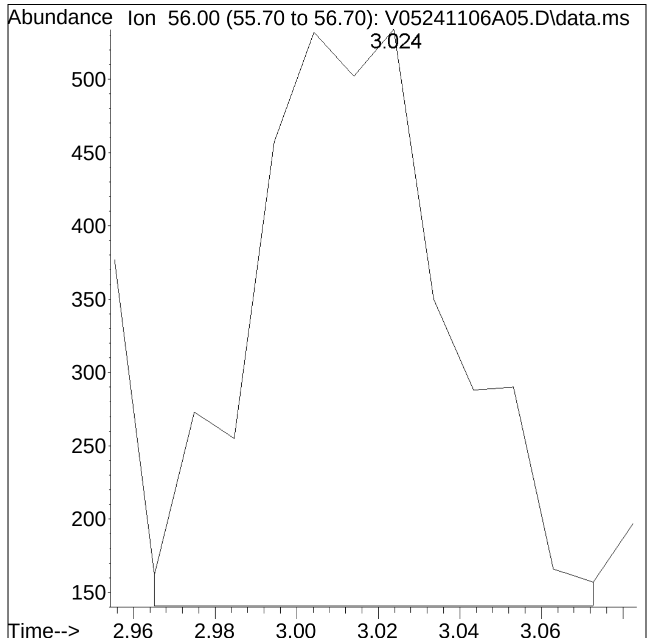
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Method : V105_241106A_8260.m
Data File : V05241106A05.D
Operator : VOA105:PID
Date Inj'd : 11/6/2024 5:16 am
Instrument : VOA105
Sample : I8260STD0.5PPB
Quant Date : 11/6/2024 11:36 am

Compound #14: Acrolein




Original Peak Response = 2232

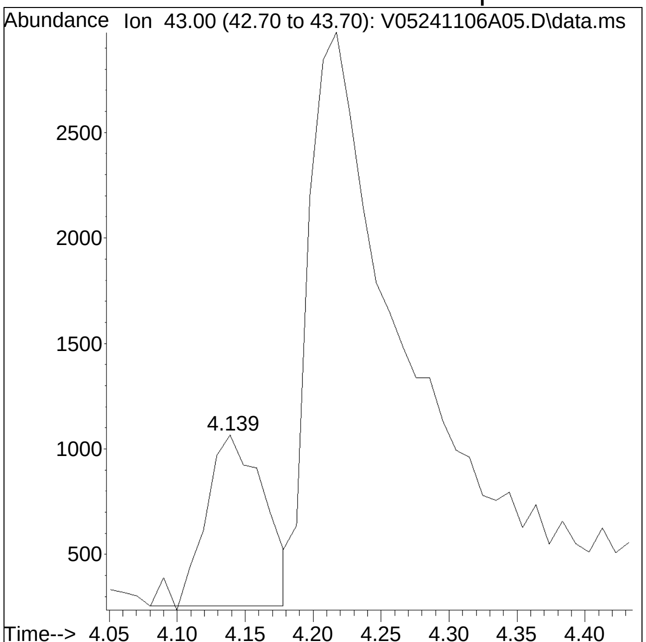
Manual Peak Response = 1322 M6

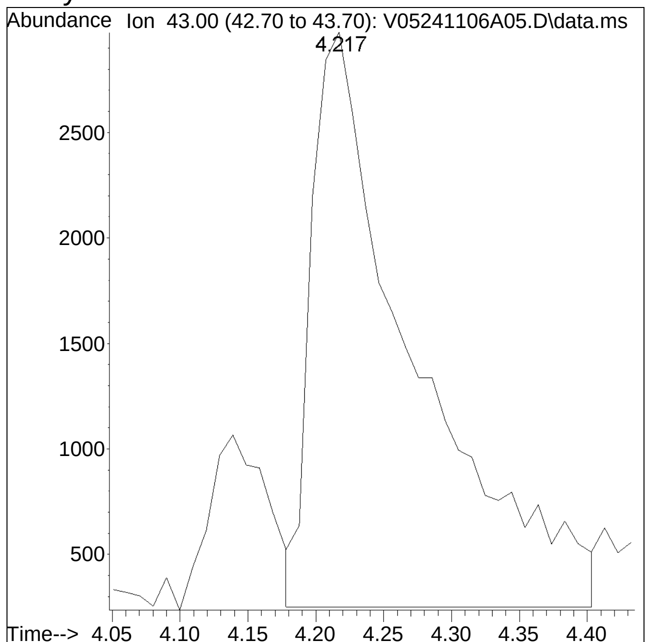
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQMethod : V105_241106A_8260.m
Data File : V05241106A05.D Operator : VOA105:PID
Date Inj'd : 11/6/2024 5:16 am Instrument : VOA105
Sample : I8260STD0.5PPB Quant Date : 11/6/2024 11:36 am

Compound #27: Vinyl acetate



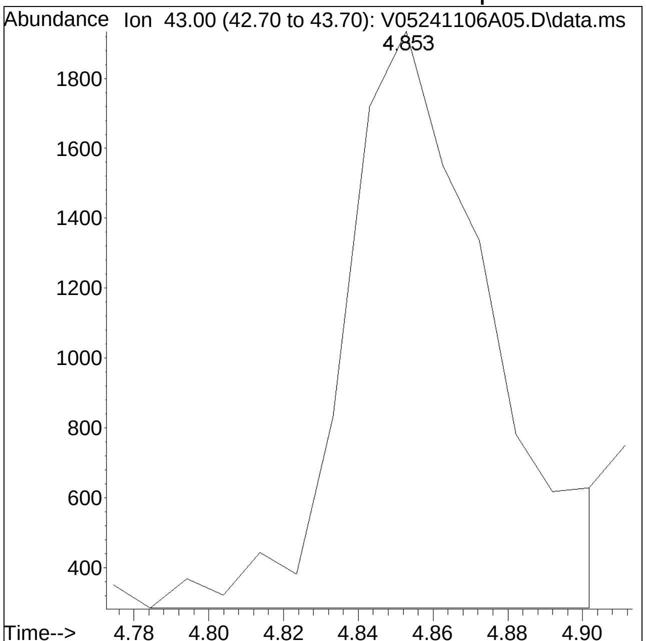

Original Peak Response = 2480 Manual Peak Response = 14242 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

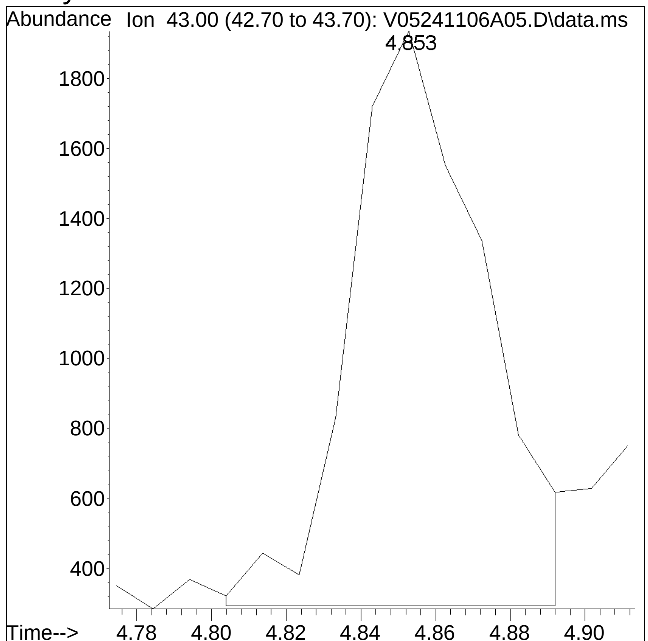
Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Data File : V05241106A05.D
Date Inj'd : 11/6/2024 5:16 am
Sample : I8260STD0.5PPB

Method : V105_241106A_8260.m
Operator : VOA105:PID
Instrument : VOA105
Quant Date : 11/6/2024 11:36 am

Compound #33: Ethyl acetate




Original Peak Response = 4402

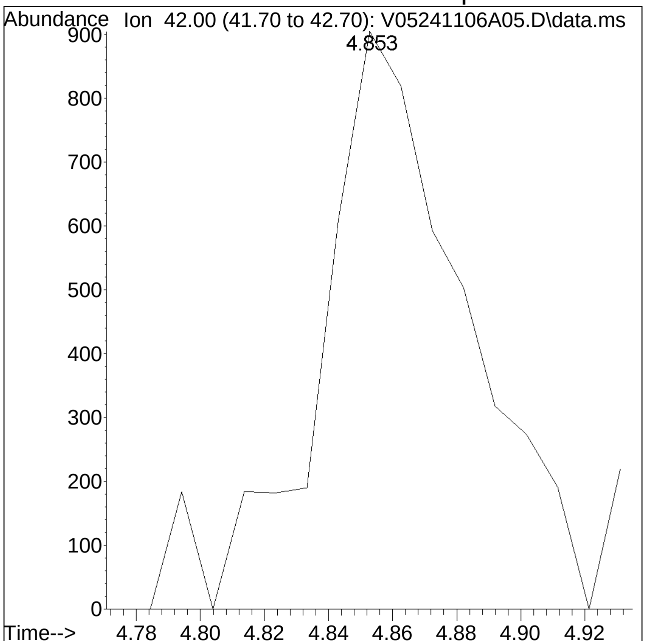
Manual Peak Response = 4087 M6

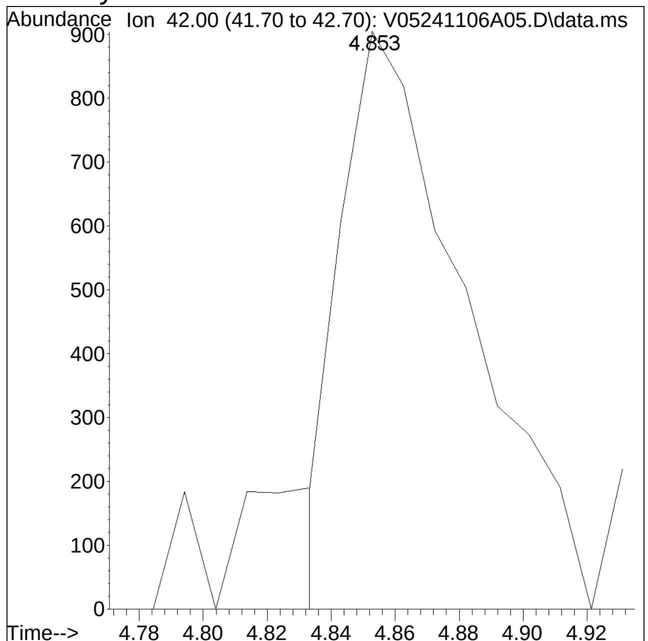
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

```
Data Path    : K:\VOA105\2024\241106AICALQMethod     : V105_241106A_8260.m
Data File    : V05241106A05.D               Operator     : VOA105:PID
Date Inj'd   : 11/6/2024  5:16 am           Instrument   : VOA105
Sample       : I8260STD0.5PPB               Quant Date   : 11/6/2024 11:36 am
```

Compound #35: Tetrahydrofuran




Original Peak Response = 2906    Manual Peak Response = 2472 M6

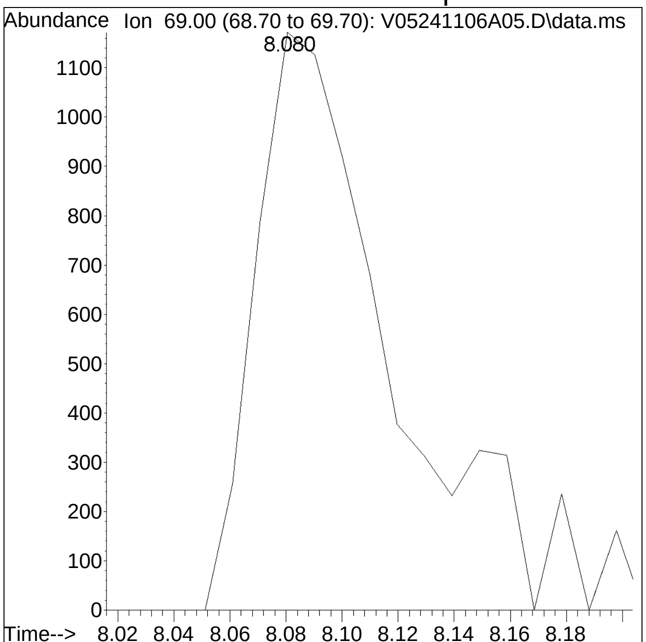
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

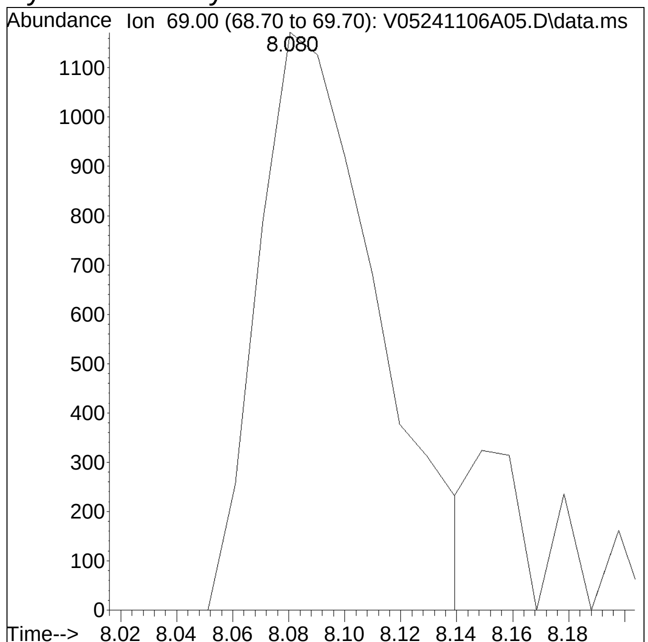
Data Path : K:\VOA105\2024\241106AICALQ
Data File : V05241106A05.D
Date Inj'd : 11/6/2024 5:16 am
Sample : I8260STD0.5PPB

Method : V105_241106A_8260.m
Operator : VOA105:PID
Instrument : VOA105
Quant Date : 11/6/2024 11:36 am

Compound #67: Ethyl methacrylate




Original Peak Response = 3955



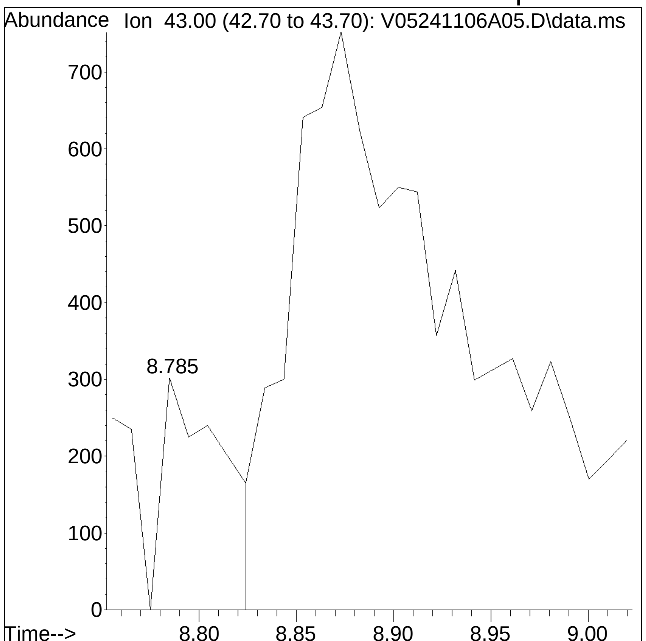

Manual Peak Response = 3442 M6

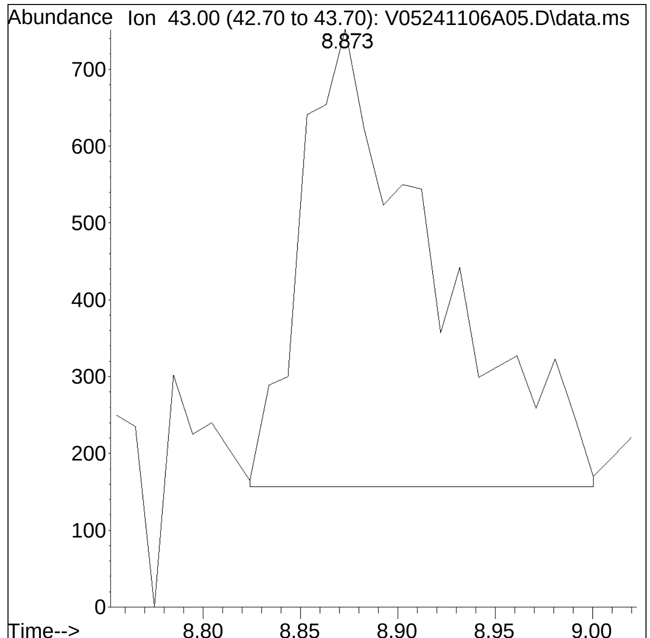
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

```
Data Path   : K:\VOA105\2024\241106AICALQMethod     : V105_241106A_8260.m
Data File   : V05241106A05.D          Operator    : VOA105:PID
Date Inj'd  : 11/6/2024  5:16 am      Instrument  : VOA105
Sample      : I8260STD0.5PPB          Quant Date  : 11/6/2024 11:36 am
```

Compound #72: 2-Hexanone



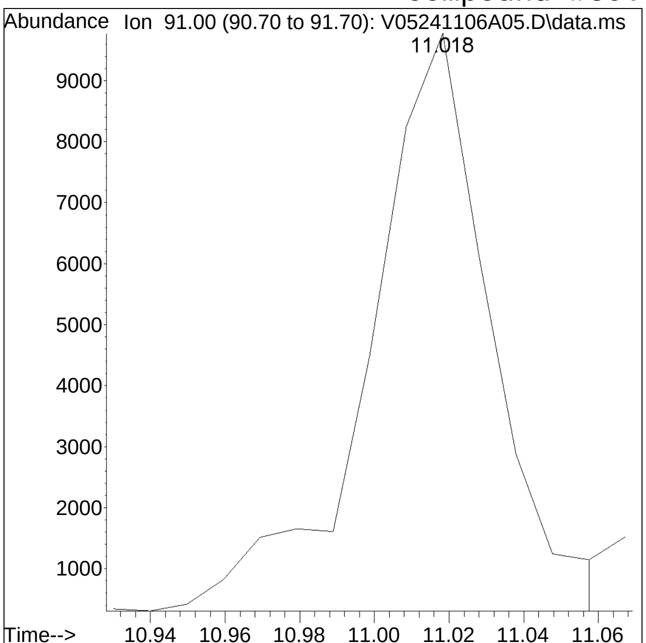

Original Peak Response = 667        Manual Peak Response = 2814 M3

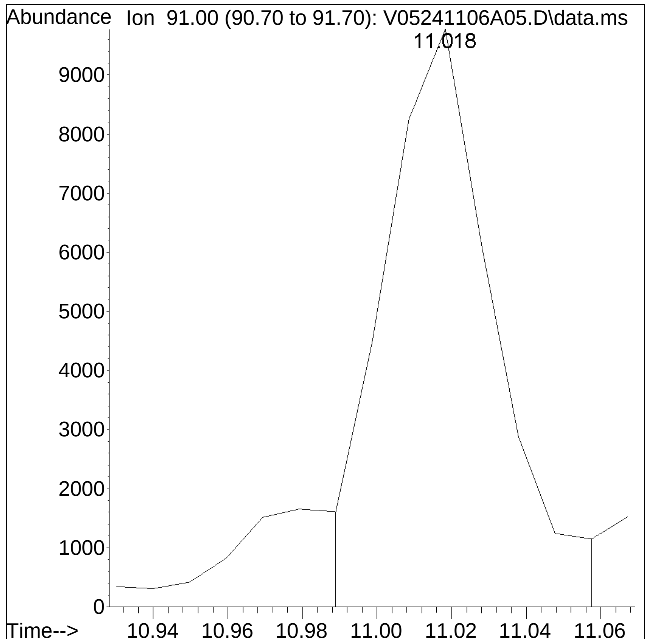
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQMethod : V105_241106A_8260.m
Data File : V05241106A05.D Operator : VOA105:PID
Date Inj'd : 11/6/2024 5:16 am Instrument : VOA105
Sample : I8260STD0.5PPB Quant Date : 11/6/2024 11:36 am

Compound #89: 2-Chlorotoluene



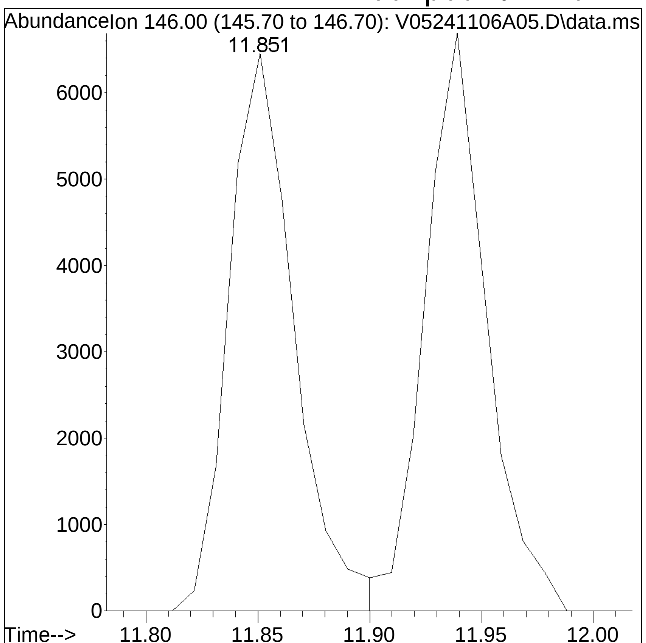



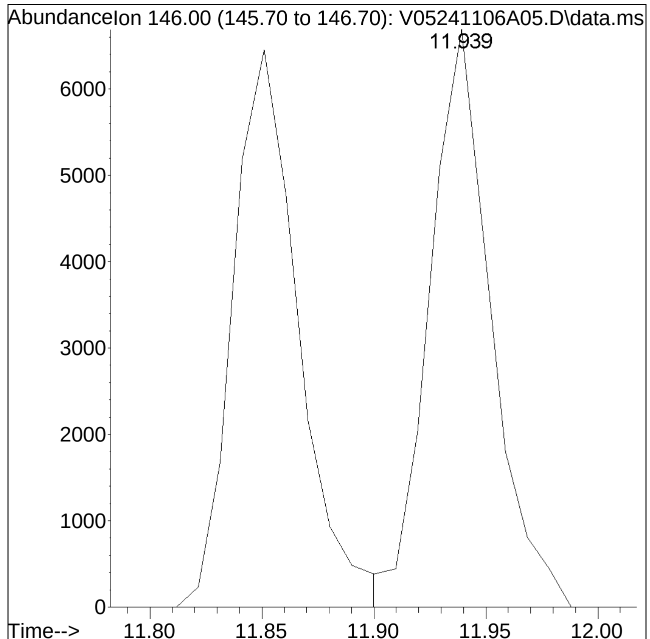

Original Peak Response = 21274 Manual Peak Response = 19914 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

## Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Method : V105_241106A_8260.m
Data File : V05241106A05.D
Operator : VOA105:PID
Date Inj'd : 11/6/2024 5:16 am
Instrument : VOA105
Sample : I8260STD0.5PPB
Quant Date : 11/6/2024 11:36 am

Compound #101: 1,4-Dichlorobenzene




Original Peak Response = 13100

Manual Peak Response = 12692 M3

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

Quantitation Report (QT Reviewed)

```
Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A07.D
Acq On    :  6 Nov 2024   6:07 am
Operator  : VOA105:PID
Sample    : I8260STD2PPB
Misc      : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Nov 06 11:36:56 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List     : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

       Compound                     R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) Fluorobenzene                5.655   96    531450    10.000 ug/L     0.00
   Standard Area 1 = 541185                 Recovery   =   98.20%
59) Chlorobenzene-d5             9.147  117    411594    10.000 ug/L     0.00
   Standard Area 1 = 409349                 Recovery   =  100.55%
79) 1,4-Dichlorobenzene-d4      11.920  152    219180    10.000 ug/L     0.00
   Standard Area 1 = 216300                 Recovery   =  101.33%

 System Monitoring Compounds
36) Dibromofluoromethane         4.872  113    140770    10.279 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =  102.79%
43) 1,2-Dichloroethane-d4        5.381   65    183451    10.162 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =  101.62%
60) Toluene-d8                   7.318   98    513247     9.948 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   99.48%
83) 4-Bromofluorobenzene        10.676   95    195002     9.780 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   97.80%

 Target Compounds                                                   Qvalue
 2) Dichlorodifluoromethane      1.488   85     37017      2.115 ug/L #    92
 3) Chloromethane                1.664   50     48177      1.986 ug/L      96
 4) Vinyl chloride               1.723   62     42776      2.076 ug/L      93
 5) Bromomethane                 2.007   94      6136      1.342 ug/L      98
 6) Chloroethane                 2.114   64     21797      2.172 ug/L      87
 7) Trichlorofluoromethane       2.241  101     42089      2.065 ug/L      98
 8) Ethyl ether                  2.515   74      8941      1.961 ug/L #     1
10) 1,1-Dichloroethene           2.701   96     21445      2.127 ug/L #    53
11) Carbon disulfide             2.721   76     66349      2.028 ug/L     100
12) Freon-113                    2.730  101     23491      2.139 ug/L      79
14) Acrolein                     3.014   56      3339M6    1.672 ug/L
15) Methylene chloride           3.229   84     27407      2.110 ug/L #    13
17) Acetone                      3.288   43      6689      1.820 ug/L      92
18) trans-1,2-Dichloroethene     3.376   96     25467      2.048 ug/L #    64
19) Methyl acetate               3.405   43     15161      1.697 ug/L #    74
20) Methyl tert-butyl ether      3.464   73     51133      1.917 ug/L #    61
21) tert-Butyl alcohol           3.581   59      8189      9.730 ug/L #    87
22) Diisopropyl ether            3.806   45    139811      1.934 ug/L #    82
23) 1,1-Dichloroethane           3.933   63     65852      2.083 ug/L      93
24) Halothane                    3.992  117     20024      2.022 ug/L     100
25) Acrylonitrile                4.021   53      9593      1.939 ug/L #    54
```

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A07.D
Acq On : 6 Nov 2024 6:07 am
Operator : VOA105:PID
Sample : I8260STD2PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 06 11:36:56 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 26) Ethyl tert-butyl ether | 4.139 | 59 | 96891 | 1.893 ug/L # | 62 |
| 27) Vinyl acetate | 4.188 | 43 | 65344M1 | 1.678 ug/L | |
| 28) cis-1,2-Dichloroethene | 4.442 | 96 | 29783 | 2.160 ug/L # | 73 |
| 29) 2,2-Dichloropropane | 4.530 | 77 | 41292 | 2.073 ug/L # | 67 |
| 30) Bromochloromethane | 4.628 | 128 | 13133 | 2.186 ug/L # | 24 |
| 31) Cyclohexane | 4.608 | 56 | 87000 | 2.082 ug/L # | 45 |
| 32) Chloroform | 4.696 | 83 | 46357 | 2.050 ug/L # | 84 |
| 33) Ethyl acetate | 4.833 | 43 | 23345 | 1.802 ug/L # | 85 |
| 34) Carbon tetrachloride | 4.814 | 117 | 38698 | 1.978 ug/L | 99 |
| 35) Tetrahydrofuran | 4.853 | 42 | 7310M6 | 1.771 ug/L | |
| 37) 1,1,1-Trichloroethane | 4.882 | 97 | 43404 | 2.038 ug/L # | 84 |
| 39) 2-Butanone | 5.019 | 43 | 8241 | 1.447 ug/L # | 51 |
| 40) 1,1-Dichloropropene | 5.000 | 75 | 36586 | 2.010 ug/L | 96 |
| 41) Benzene | 5.244 | 78 | 102889 | 2.008 ug/L # | 77 |
| 42) tert-Amyl methyl ether | 5.352 | 73 | 53824 | 1.843 ug/L # | 86 |
| 44) 1,2-Dichloroethane | 5.449 | 62 | 41845 | 2.058 ug/L | 96 |
| 47) Methyl cyclohexane | 5.802 | 83 | 44048 | 1.938 ug/L # | 11 |
| 48) Trichloroethene | 5.831 | 95 | 29059 | 2.066 ug/L | 96 |
| 50) Dibromomethane | 6.271 | 93 | 13214 | 1.916 ug/L | 97 |
| 51) 1,2-Dichloropropane | 6.369 | 63 | 34573 | 1.972 ug/L # | 81 |
| 53) 2-Chloroethyl vinyl ether | 7.073 | 63 | 13967 | 1.733 ug/L # | 73 |
| 54) Bromodichloromethane | 6.447 | 83 | 32911 | 1.931 ug/L | 98 |
| 57) 1,4-Dioxane | 6.653 | 88 | 23668 | 370.073 ug/L # | 40 |
| 58) cis-1,3-Dichloropropene | 7.132 | 75 | 37490 | 1.930 ug/L # | 68 |
| 61) Toluene | 7.376 | 92 | 66596 | 2.032 ug/L | 100 |
| 62) 4-Methyl-2-pentanone | 7.826 | 58 | 7184 | 1.686 ug/L # | 65 |
| 63) Tetrachloroethene | 7.816 | 166 | 27892 | 1.942 ug/L | 95 |
| 65) trans-1,3-Dichloropropene | 7.875 | 75 | 28904 | 1.811 ug/L # | 63 |
| 67) Ethyl methacrylate | 8.071 | 69 | 19173 | 1.830 ug/L | 96 |
| 68) 1,1,2-Trichloroethane | 8.051 | 83 | 14692 | 1.939 ug/L | 99 |
| 69) Chlorodibromomethane | 8.257 | 129 | 20893 | 1.749 ug/L | 99 |
| 70) 1,3-Dichloropropane | 8.374 | 76 | 32661 | 1.959 ug/L | 96 |
| 71) 1,2-Dibromoethane | 8.530 | 107 | 17433 | 1.861 ug/L | 99 |
| 72) 2-Hexanone | 8.844 | 43 | 12324 | 1.585 ug/L | 99 |
| 73) Chlorobenzene | 9.167 | 112 | 71303 | 2.009 ug/L | 98 |
| 74) Ethylbenzene | 9.206 | 91 | 131655 | 2.016 ug/L | 95 |
| 75) 1,1,1,2-Tetrachloroethane | 9.255 | 131 | 22512 | 1.804 ug/L | 92 |
| 76) p/m Xylene | 9.392 | 106 | 100186 | 4.048 ug/L | 87 |
| 77) o Xylene | 9.931 | 106 | 95989 | 4.054 ug/L | 88 |
| 78) Styrene | 10.009 | 104 | 153386 | 4.010 ug/L | 89 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A07.D
Acq On : 6 Nov 2024 6:07 am
Operator : VOA105:PID
Sample : I8260STD2PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 06 11:36:56 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 80) Bromoform | 10.039 | 173 | 10621 | 1.636 ug/L | 100 |
| 82) Isopropylbenzene | 10.333 | 105 | 134663 | 1.974 ug/L | 97 |
| 84) Bromobenzene | 10.793 | 156 | 29877 | 2.028 ug/L | 99 |
| 85) n-Propylbenzene | 10.842 | 91 | 157272 | 2.009 ug/L | 96 |
| 86) 1,4-Dichlorobutane | 10.871 | 55 | 47630 | 1.860 ug/L # | 88 |
| 87) 1,1,2,2-Tetrachloroethane | 10.950 | 83 | 19575 | 1.828 ug/L | 98 |
| 88) 4-Ethyltoluene | 10.969 | 105 | 128253 | 1.989 ug/L | 98 |
| 89) 2-Chlorotoluene | 11.009 | 91 | 89790M6 | 2.012 ug/L | |
| 90) 1,3,5-Trimethylbenzene | 11.067 | 105 | 115189 | 2.051 ug/L | 96 |
| 91) 1,2,3-Trichloropropane | 11.087 | 75 | 16434M1 | 1.872 ug/L | |
| 92) trans-1,4-Dichloro-2-b... | 11.156 | 53 | 8343 | 1.768 ug/L # | 72 |
| 93) 4-Chlorotoluene | 11.204 | 91 | 92798M4 | 1.989 ug/L | |
| 94) tert-Butylbenzene | 11.420 | 119 | 97651 | 1.977 ug/L | 96 |
| 97) 1,2,4-Trimethylbenzene | 11.498 | 105 | 106118 | 1.964 ug/L | 94 |
| 98) sec-Butylbenzene | 11.616 | 105 | 142217 | 2.017 ug/L | 100 |
| 99) p-Isopropyltoluene | 11.773 | 119 | 122645 | 1.995 ug/L | 98 |
| 100) 1,3-Dichlorobenzene | 11.841 | 146 | 56225 | 1.942 ug/L | 98 |
| 101) 1,4-Dichlorobenzene | 11.939 | 146 | 60088 | 2.077 ug/L | 99 |
| 102) p-Diethylbenzene | 12.155 | 119 | 68502 | 1.923 ug/L | 98 |
| 103) n-Butylbenzene | 12.213 | 91 | 97517 | 1.954 ug/L | 97 |
| 104) 1,2-Dichlorobenzene | 12.370 | 146 | 52233 | 2.001 ug/L | 96 |
| 105) 1,2,4,5-Tetramethylben... | 12.958 | 119 | 96958 | 1.875 ug/L | 97 |
| 106) 1,2-Dibromo-3-chloropr... | 13.164 | 155 | 2456 | 1.599 ug/L | 99 |
| 107) 1,3,5-Trichlorobenzene | 13.183 | 180 | 36820 | 1.899 ug/L | 97 |
| 108) Hexachlorobutadiene | 13.761 | 225 | 13722 | 1.926 ug/L | 99 |
| 109) 1,2,4-Trichlorobenzene | 13.791 | 180 | 31309 | 1.899 ug/L | 98 |
| 110) Naphthalene | 14.085 | 128 | 66574 | 1.821 ug/L | 100 |
| 111) 1,2,3-Trichlorobenzene | 14.251 | 180 | 25601 | 1.841 ug/L | 97 |

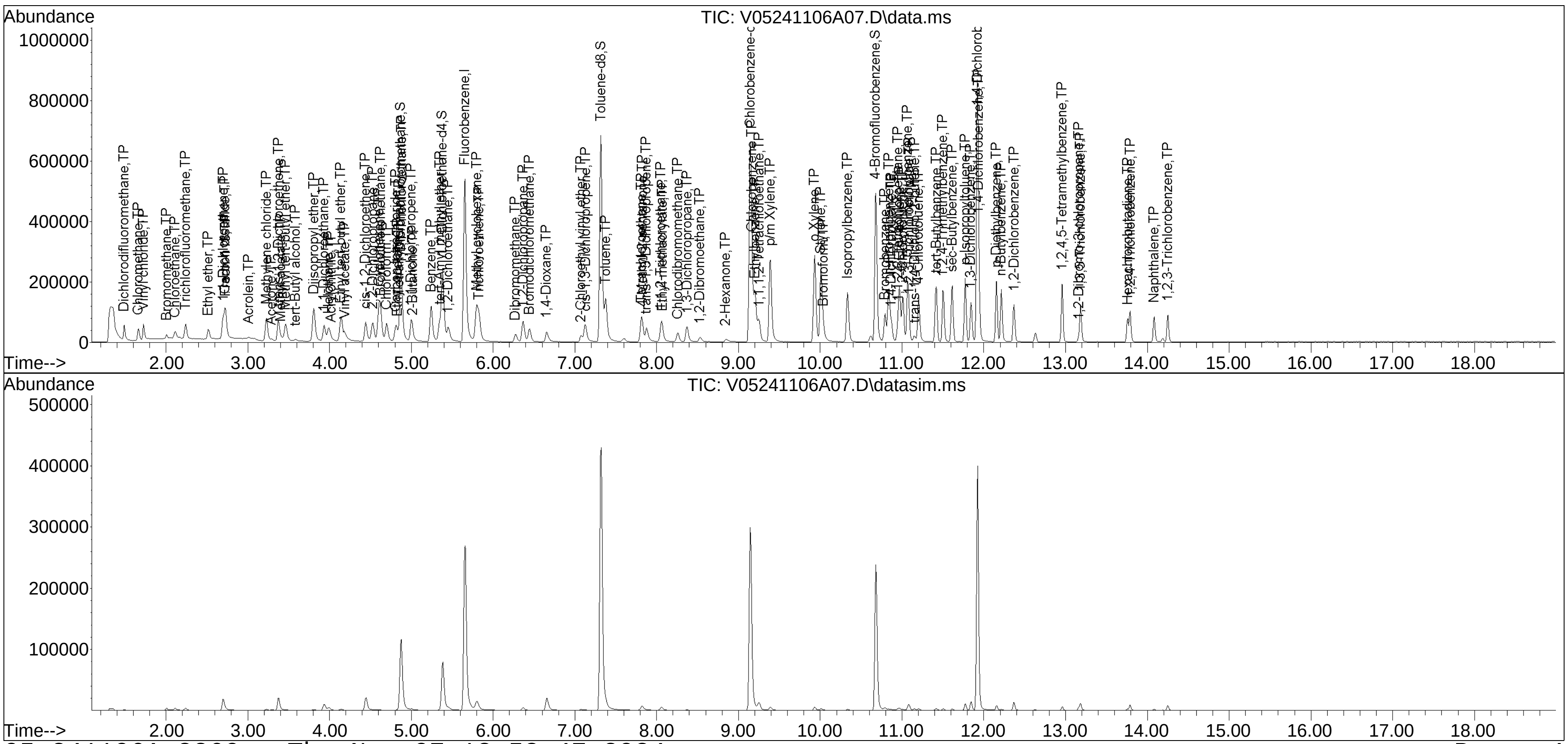
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A07.D
Acq On    :  6 Nov 2024   6:07 am
Operator  : VOA105:PID
Sample    : I8260STD2PPB
Misc      : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Nov 06 11:36:56 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

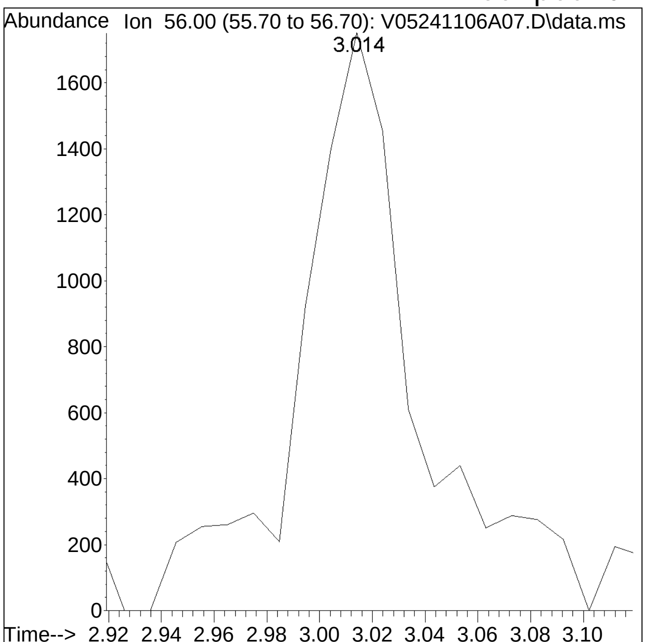
Sub List     : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

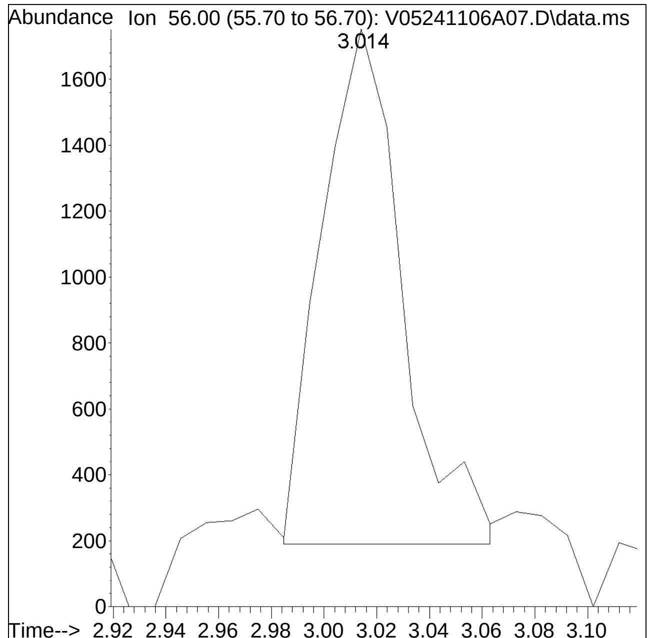


Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA105\2024\241106AICAL | QMethod | : V105_241106A_8260.m |
| Data File | : V05241106A07.D | Operator | : VOA105:PID |
| Date Inj'd | : 11/6/2024 6:07 am | Instrument | : VOA105 |
| Sample | : I8260STD2PPB | Quant Date | : 11/6/2024 11:36 am |

Compound #14: Acrolein



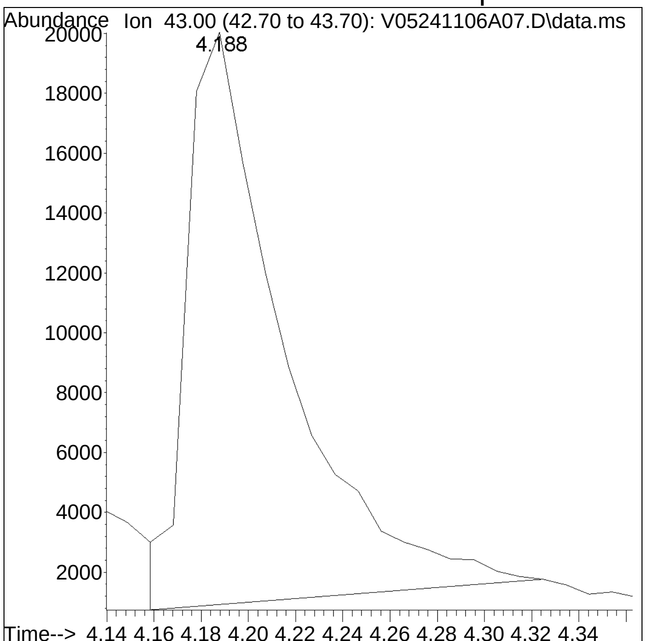

Original Peak Response = 5405 Manual Peak Response = 3339 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

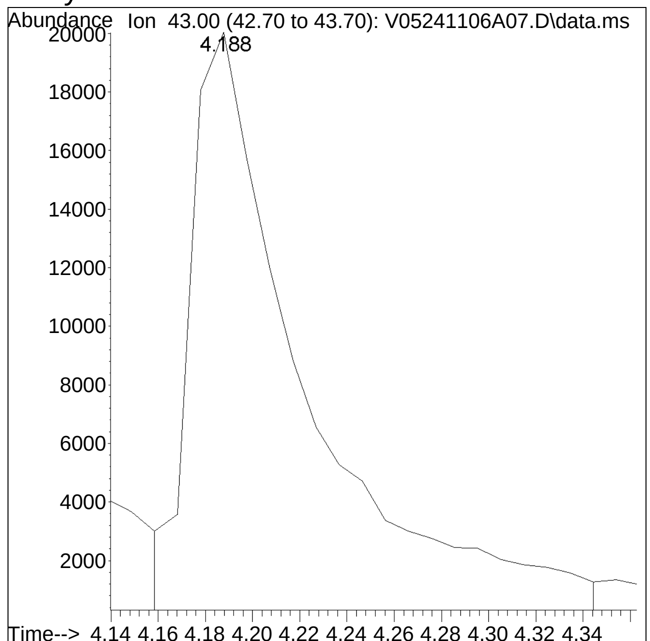
Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Data File : V05241106A07.D
Date Inj'd : 11/6/2024 6:07 am
Sample : I8260STD2PPB

Method : V105_241106A_8260.m
Operator : VOA105:PID
Instrument : VOA105
Quant Date : 11/6/2024 11:36 am

Compound #27: Vinyl acetate




Original Peak Response = 54613

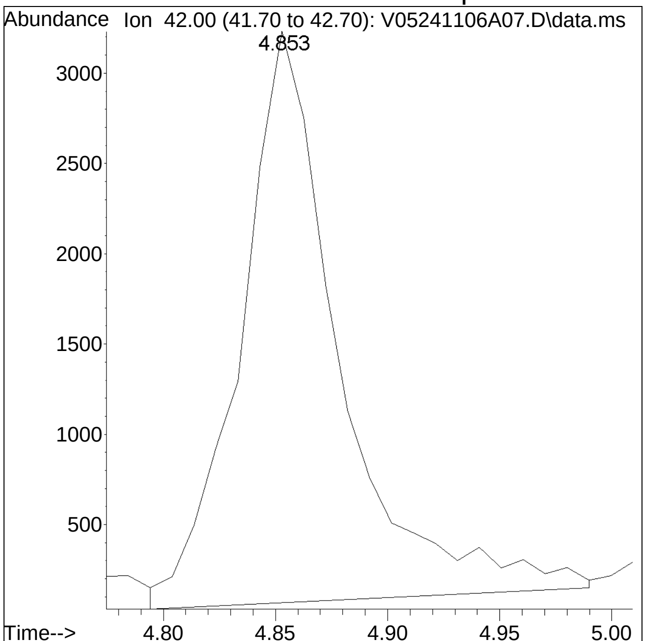
Manual Peak Response = 65344 M1

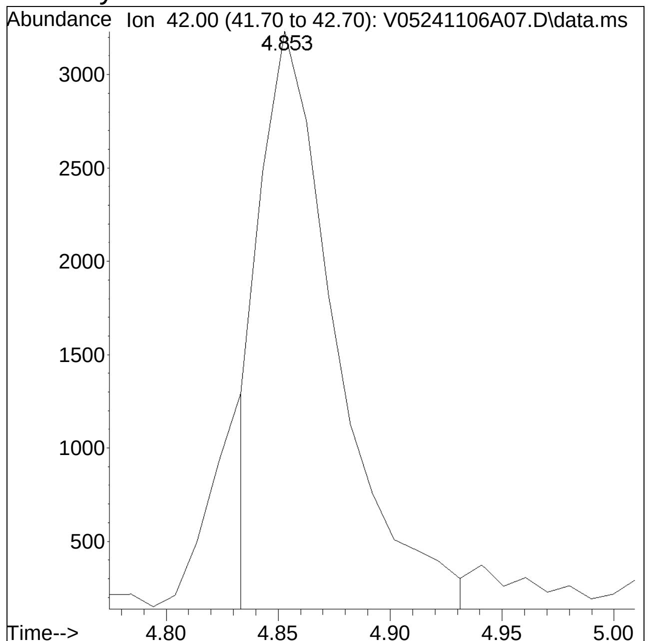
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

```
Data Path   : K:\VOA105\2024\241106AICALQMethod     : V105_241106A_8260.m
Data File   : V05241106A07.D              Operator    : VOA105:PID
Date Inj'd  : 11/6/2024  6:07 am          Instrument  : VOA105
Sample      : I8260STD2PPB                Quant Date  : 11/6/2024 11:36 am
```

Compound #35: Tetrahydrofuran



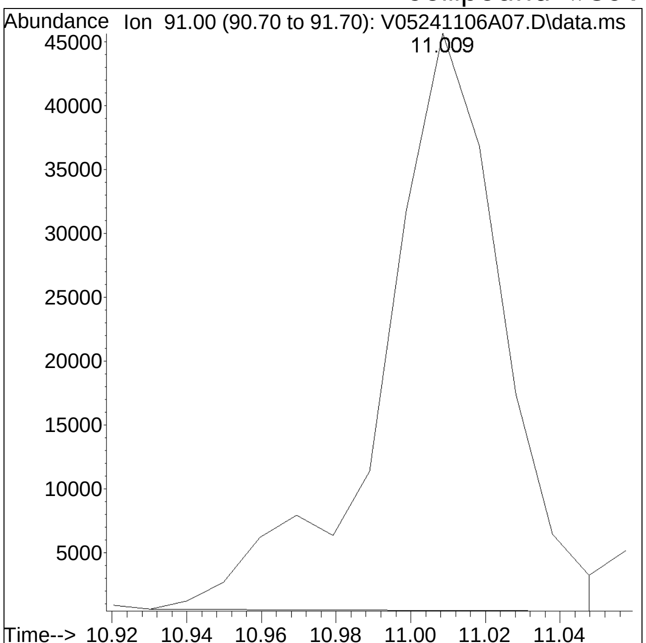

Original Peak Response = 9724        Manual Peak Response = 7310 M6

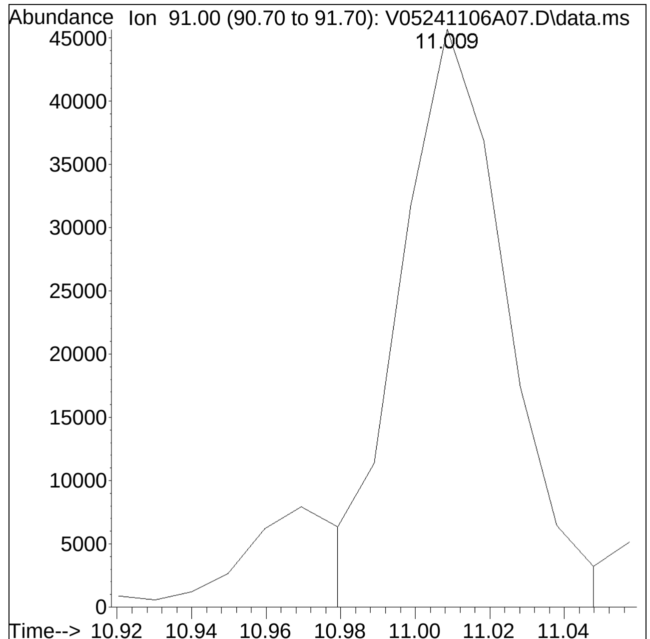
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

```
Data Path   : K:\VOA105\2024\241106AICALQMethod     : V105_241106A_8260.m
Data File   : V05241106A07.D              Operator    : VOA105:PID
Date Inj'd  : 11/6/2024  6:07 am          Instrument  : VOA105
Sample      : I8260STD2PPB                Quant Date  : 11/6/2024 11:36 am
```

Compound #89: 2-Chlorotoluene




Original Peak Response = 100580        Manual Peak Response = 89790 M6

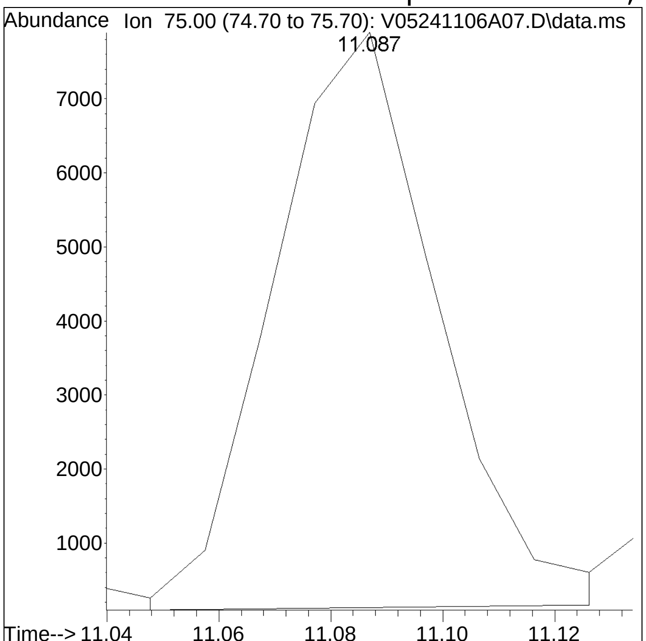
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

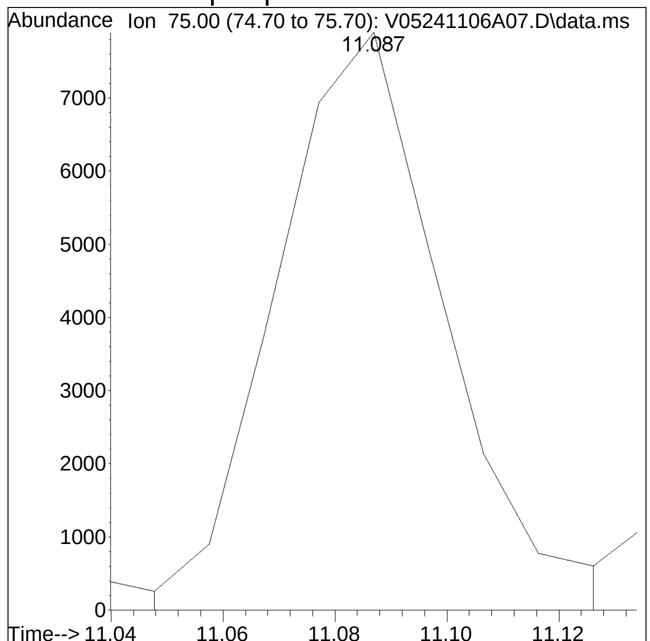
Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Data File : V05241106A07.D
Date Inj'd : 11/6/2024 6:07 am
Sample : I8260STD2PPB

Method : V105_241106A_8260.m
Operator : VOA105:PID
Instrument : VOA105
Quant Date : 11/6/2024 11:36 am

Compound #91: 1,2,3-Trichloropropane




Original Peak Response = 15828

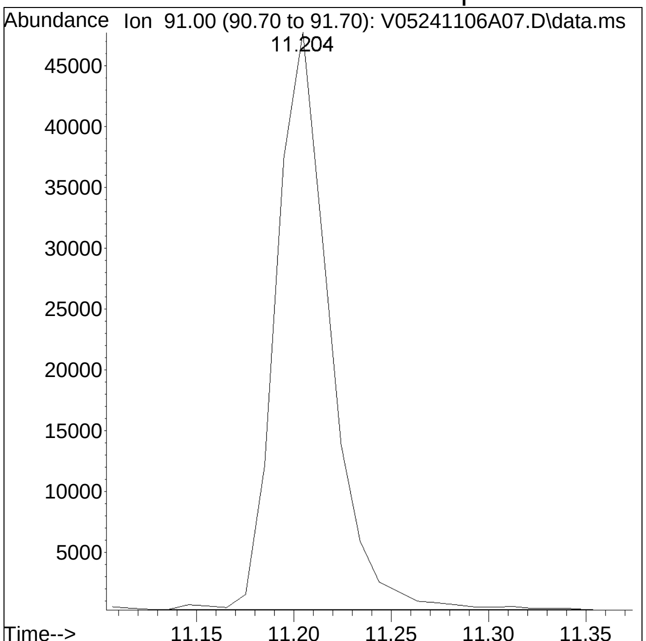
Manual Peak Response = 16434 M1

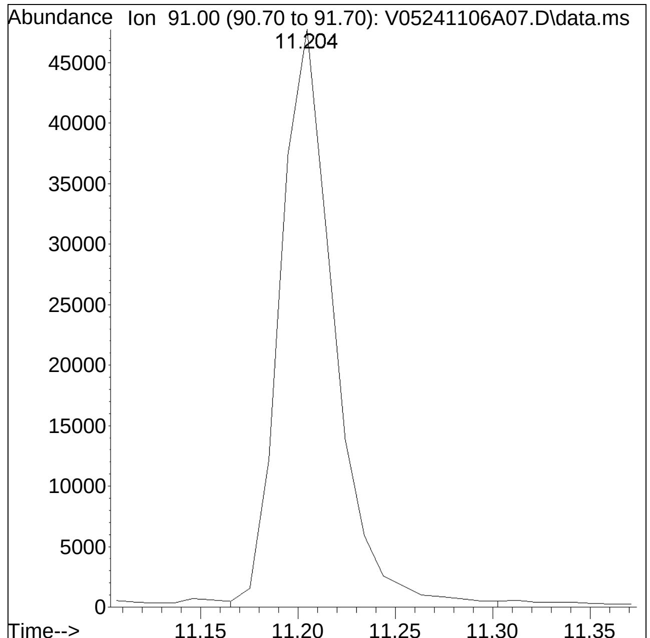
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Method : V105_241106A_8260.m
Data File : V05241106A07.D
Operator : VOA105:PID
Date Inj'd : 11/6/2024 6:07 am
Instrument : VOA105
Sample : I8260STD2PPB
Quant Date : 11/6/2024 11:36 am

Compound #93: 4-Chlorotoluene




Original Peak Response = 91272

Manual Peak Response = 92798 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A09.D
Acq On : 6 Nov 2024 6:58 am
Operator : VOA105:PID
Sample : I8260STD10PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 06 11:37:03 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) Fluorobenzene | 5.655 | 96 | 541185 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 541185 | | | Recovery | = 100.00% | |
| 59) Chlorobenzene-d5 | 9.147 | 117 | 409349 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 409349 | | | Recovery | = 100.00% | |
| 79) 1,4-Dichlorobenzene-d4 | 11.920 | 152 | 216300 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 216300 | | | Recovery | = 100.00% | |
| System Monitoring Compounds | | | | | |
| 36) Dibromofluoromethane | 4.873 | 113 | 139324 | 9.991 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 99.91% | |
| 43) 1,2-Dichloroethane-d4 | 5.381 | 65 | 191747 | 10.430 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 104.30% | |
| 60) Toluene-d8 | 7.318 | 98 | 517765 | 10.091 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 100.91% | |
| 83) 4-Bromofluorobenzene | 10.676 | 95 | 198276 | 10.077 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 100.77% | |

| Target Compounds | R.T. | QIon | Response | Conc Units | Qvalue |
|---|---|---|---|---|---|
| 2) Dichlorodifluoromethane | 1.488 | 85 | 183640 | 10.303 ug/L # | 95 |
| 3) Chloromethane | 1.664 | 50 | 251678 | 10.190 ug/L | 96 |
| 4) Vinyl chloride | 1.723 | 62 | 214989 | 10.245 ug/L | 91 |
| 5) Bromomethane | 2.007 | 94 | 37488 | 8.051 ug/L | 96 |
| 6) Chloroethane | 2.114 | 64 | 103952 | 10.172 ug/L | 88 |
| 7) Trichlorofluoromethane | 2.242 | 101 | 210846 | 10.159 ug/L | 99 |
| 8) Ethyl ether | 2.515 | 74 | 47398 | 10.207 ug/L # | 1 |
| 10) 1,1-Dichloroethene | 2.691 | 96 | 102841 | 10.016 ug/L # | 47 |
| 11) Carbon disulfide | 2.721 | 76 | 328620 | 9.863 ug/L | 100 |
| 12) Freon-113 | 2.721 | 101 | 115882 | 10.364 ug/L | 78 |
| 14) Acrolein | 3.024 | 56 | 20007 | 9.836 ug/L | 99 |
| 15) Methylene chloride | 3.229 | 84 | 132132 | 9.991 ug/L # | 9 |
| 17) Acetone | 3.288 | 43 | 34979 | 9.345 ug/L | 90 |
| 18) trans-1,2-Dichloroethene | 3.366 | 96 | 133036 | 10.507 ug/L # | 65 |
| 19) Methyl acetate | 3.396 | 43 | 90837 | 9.987 ug/L # | 72 |
| 20) Methyl tert-butyl ether | 3.464 | 73 | 285949 | 10.530 ug/L # | 62 |
| 21) tert-Butyl alcohol | 3.581 | 59 | 43600 | 50.873 ug/L | 98 |
| 22) Diisopropyl ether | 3.806 | 45 | 785472 | 10.672 ug/L # | 82 |
| 23) 1,1-Dichloroethane | 3.934 | 63 | 335351 | 10.417 ug/L | 92 |
| 24) Halothane | 3.992 | 117 | 104966 | 10.407 ug/L | 98 |
| 25) Acrylonitrile | 4.002 | 53 | 52002 | 10.324 ug/L # | 83 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A09.D
Acq On : 6 Nov 2024 6:58 am
Operator : VOA105:PID
Sample : I8260STD10PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 06 11:37:03 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 26) Ethyl tert-butyl ether | 4.139 | 59 | 553699 | 10.622 ug/L # | 70 |
| 27) Vinyl acetate | 4.168 | 43 | 400575M6 | 10.103 ug/L | |
| 28) cis-1,2-Dichloroethene | 4.442 | 96 | 147618 | 10.512 ug/L # | 67 |
| 29) 2,2-Dichloropropane | 4.530 | 77 | 211313 | 10.418 ug/L # | 69 |
| 30) Bromochloromethane | 4.628 | 128 | 67924 | 11.101 ug/L # | 25 |
| 31) Cyclohexane | 4.608 | 56 | 449924 | 10.576 ug/L # | 45 |
| 32) Chloroform | 4.697 | 83 | 241199 | 10.474 ug/L # | 89 |
| 33) Ethyl acetate | 4.814 | 43 | 138765 | 10.517 ug/L # | 87 |
| 34) Carbon tetrachloride | 4.814 | 117 | 209658 | 10.526 ug/L | 98 |
| 35) Tetrahydrofuran | 4.853 | 42 | 40984M6 | 9.752 ug/L | |
| 37) 1,1,1-Trichloroethane | 4.882 | 97 | 226725 | 10.456 ug/L # | 88 |
| 39) 2-Butanone | 5.000 | 43 | 59586 | 10.276 ug/L # | 48 |
| 40) 1,1-Dichloropropene | 5.000 | 75 | 192739 | 10.396 ug/L | 97 |
| 41) Benzene | 5.234 | 78 | 549566 | 10.532 ug/L # | 78 |
| 42) tert-Amyl methyl ether | 5.342 | 73 | 307880 | 10.351 ug/L # | 86 |
| 44) 1,2-Dichloroethane | 5.450 | 62 | 219360 | 10.596 ug/L | 96 |
| 47) Methyl cyclohexane | 5.802 | 83 | 244202 | 10.552 ug/L # | 14 |
| 48) Trichloroethene | 5.821 | 95 | 141497 | 9.878 ug/L | 94 |
| 50) Dibromomethane | 6.271 | 93 | 73354 | 10.443 ug/L | 99 |
| 51) 1,2-Dichloropropane | 6.359 | 63 | 183658 | 10.288 ug/L # | 81 |
| 53) 2-Chloroethyl vinyl ether | 7.063 | 63 | 90184 | 10.986 ug/L # | 76 |
| 54) Bromodichloromethane | 6.437 | 83 | 180151 | 10.382 ug/L | 99 |
| 57) 1,4-Dioxane | 6.653 | 88 | 32511 | 499.197 ug/L # | 39 |
| 58) cis-1,3-Dichloropropene | 7.122 | 75 | 207426 | 10.488 ug/L # | 69 |
| 61) Toluene | 7.376 | 92 | 343570 | 10.539 ug/L | 100 |
| 62) 4-Methyl-2-pentanone | 7.817 | 58 | 46916 | 11.073 ug/L # | 80 |
| 63) Tetrachloroethene | 7.807 | 166 | 150920 | 10.564 ug/L | 93 |
| 65) trans-1,3-Dichloropropene | 7.865 | 75 | 172721 | 10.882 ug/L # | 65 |
| 67) Ethyl methacrylate | 8.051 | 69 | 114394 | 10.976 ug/L | 94 |
| 68) 1,1,2-Trichloroethane | 8.051 | 83 | 82281 | 10.919 ug/L | 98 |
| 69) Chlorodibromomethane | 8.257 | 129 | 127929 | 10.767 ug/L | 98 |
| 70) 1,3-Dichloropropane | 8.364 | 76 | 177146 | 10.686 ug/L | 99 |
| 71) 1,2-Dibromoethane | 8.521 | 107 | 99491 | 10.679 ug/L | 99 |
| 72) 2-Hexanone | 8.824 | 43 | 83776 | 10.836 ug/L | 92 |
| 73) Chlorobenzene | 9.167 | 112 | 371976 | 10.537 ug/L | 94 |
| 74) Ethylbenzene | 9.196 | 91 | 687828 | 10.593 ug/L | 95 |
| 75) 1,1,1,2-Tetrachloroethane | 9.245 | 131 | 132178 | 10.651 ug/L | 97 |
| 76) p/m Xylene | 9.383 | 106 | 525070 | 21.333 ug/L | 88 |
| 77) o Xylene | 9.931 | 106 | 498948 | 21.190 ug/L | 88 |
| 78) Styrene | 10.009 | 104 | 810706 | 21.310 ug/L | 90 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A09.D
Acq On : 6 Nov 2024 6:58 am
Operator : VOA105:PID
Sample : I8260STD10PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 06 11:37:03 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 80) Bromoform | 10.029 | 173 | 66383 | 10.363 ug/L | 98 |
| 82) Isopropylbenzene | 10.333 | 105 | 702504 | 10.438 ug/L | 96 |
| 84) Bromobenzene | 10.793 | 156 | 153595 | 10.565 ug/L | 99 |
| 85) n-Propylbenzene | 10.832 | 91 | 815746 | 10.557 ug/L | 96 |
| 86) 1,4-Dichlorobutane | 10.862 | 55 | 269857 | 10.678 ug/L # | 86 |
| 87) 1,1,2,2-Tetrachloroethane | 10.950 | 83 | 110542 | 10.461 ug/L | 98 |
| 88) 4-Ethyltoluene | 10.970 | 105 | 667534 | 10.488 ug/L | 97 |
| 89) 2-Chlorotoluene | 11.009 | 91 | 455090M6 | 10.331 ug/L | |
| 90) 1,3,5-Trimethylbenzene | 11.067 | 105 | 582853 | 10.517 ug/L | 95 |
| 91) 1,2,3-Trichloropropane | 11.077 | 75 | 90300M4 | 10.421 ug/L | |
| 92) trans-1,4-Dichloro-2-b... | 11.146 | 53 | 48931 | 10.509 ug/L # | 84 |
| 93) 4-Chlorotoluene | 11.195 | 91 | 481756M6 | 10.463 ug/L | |
| 94) tert-Butylbenzene | 11.420 | 119 | 505084 | 10.362 ug/L | 95 |
| 97) 1,2,4-Trimethylbenzene | 11.498 | 105 | 563559 | 10.571 ug/L | 96 |
| 98) sec-Butylbenzene | 11.606 | 105 | 730994 | 10.506 ug/L | 100 |
| 99) p-Isopropyltoluene | 11.773 | 119 | 642644 | 10.593 ug/L | 97 |
| 100) 1,3-Dichlorobenzene | 11.841 | 146 | 299852 | 10.494 ug/L | 98 |
| 101) 1,4-Dichlorobenzene | 11.939 | 146 | 298755 | 10.465 ug/L | 98 |
| 102) p-Diethylbenzene | 12.155 | 119 | 368484 | 10.484 ug/L | 99 |
| 103) n-Butylbenzene | 12.214 | 91 | 513985 | 10.434 ug/L | 98 |
| 104) 1,2-Dichlorobenzene | 12.370 | 146 | 271791 | 10.550 ug/L | 97 |
| 105) 1,2,4,5-Tetramethylben... | 12.958 | 119 | 528758 | 10.362 ug/L | 97 |
| 106) 1,2-Dibromo-3-chloropr... | 13.154 | 155 | 15885 | 10.480 ug/L | 97 |
| 107) 1,3,5-Trichlorobenzene | 13.183 | 180 | 202600 | 10.589 ug/L | 98 |
| 108) Hexachlorobutadiene | 13.761 | 225 | 71296 | 10.138 ug/L | 98 |
| 109) 1,2,4-Trichlorobenzene | 13.791 | 180 | 171497 | 10.542 ug/L | 99 |
| 110) Naphthalene | 14.085 | 128 | 381418 | 10.573 ug/L | 100 |
| 111) 1,2,3-Trichlorobenzene | 14.251 | 180 | 145750 | 10.620 ug/L | 98 |

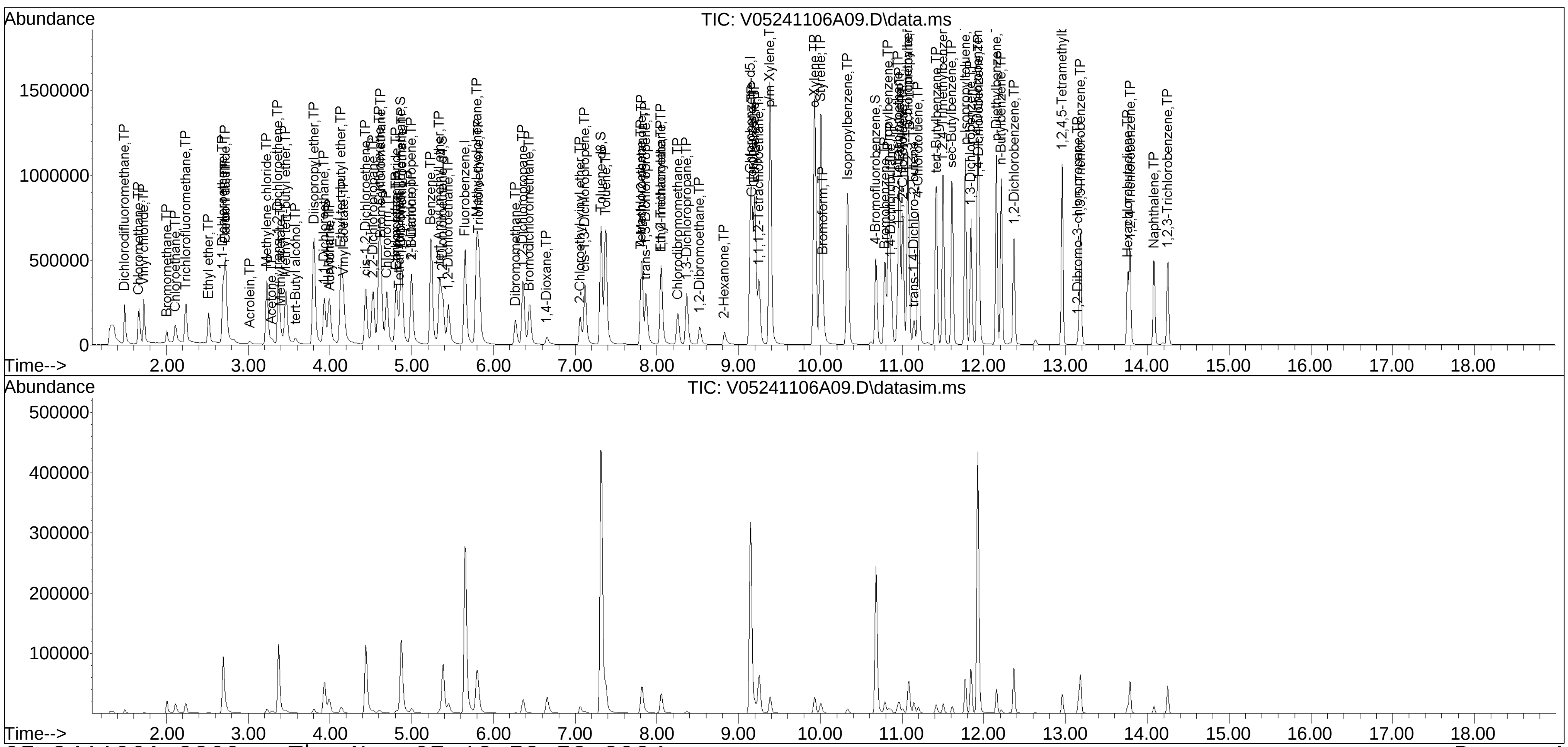
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A09.D
Acq On    :  6 Nov 2024   6:58 am
Operator  : VOA105:PID
Sample    : I8260STD10PPB
Misc      : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Nov 06 11:37:03 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

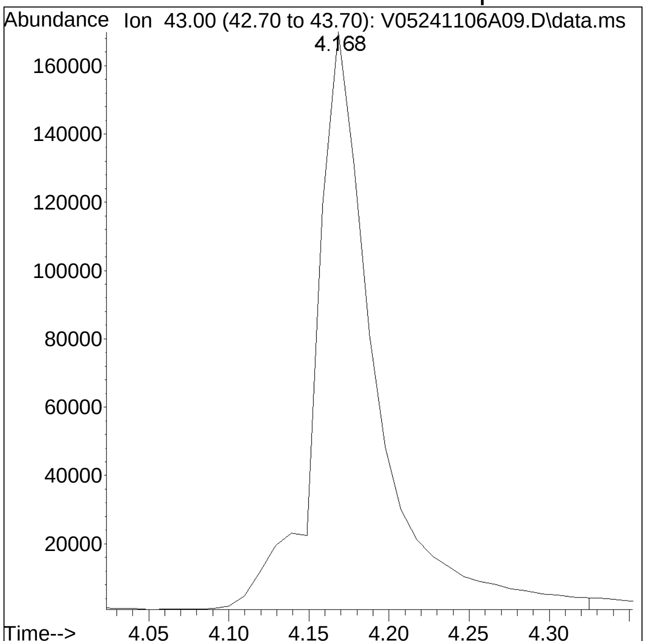
Sub List     : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

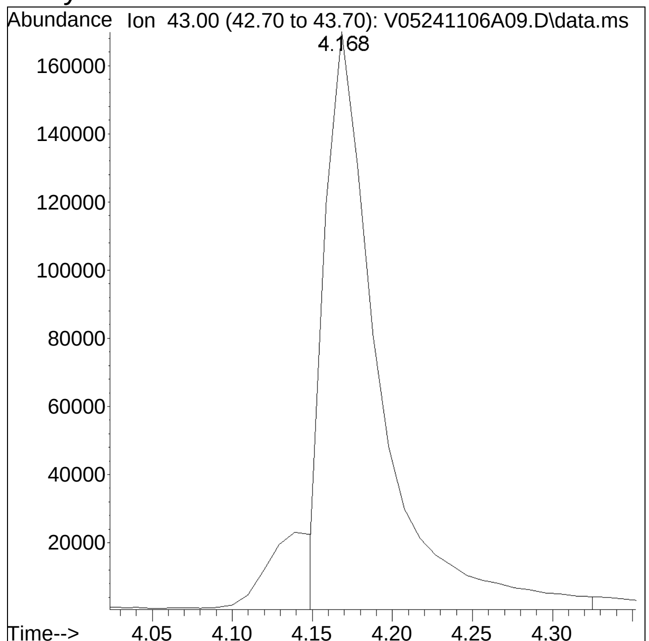


Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Method : V105_241106A_8260.m
Data File : V05241106A09.D
Operator : VOA105:PID
Date Inj'd : 11/6/2024 6:58 am
Instrument : VOA105
Sample : I8260STD10PPB
Quant Date : 11/6/2024 11:36 am

Compound #27: Vinyl acetate




Original Peak Response = 443964

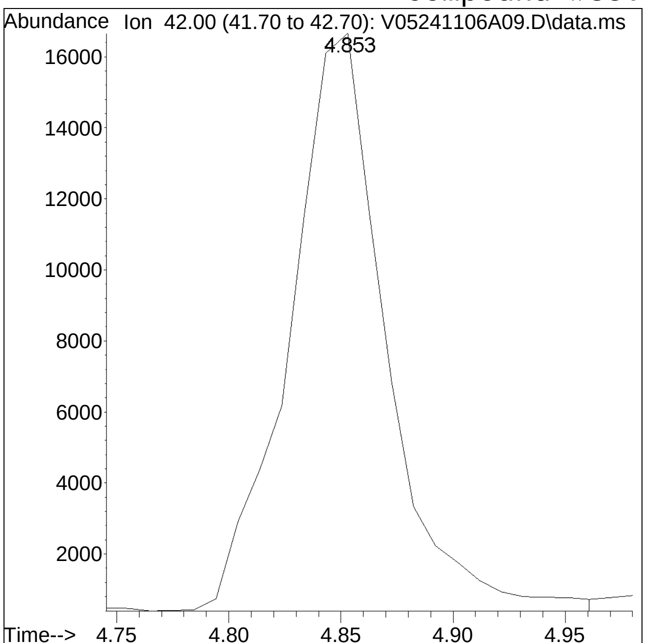
Manual Peak Response = 400575 M6

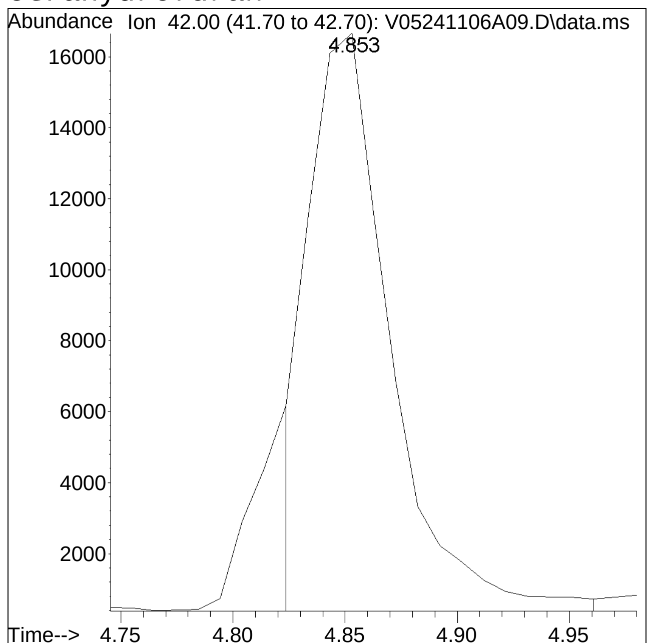
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Method : V105_241106A_8260.m
Data File : V05241106A09.D
Operator : VOA105:PID
Date Inj'd : 11/6/2024 6:58 am
Instrument : VOA105
Sample : I8260STD10PPB
Quant Date : 11/6/2024 11:36 am

Compound #35: Tetrahydrofuran




Original Peak Response = 48345

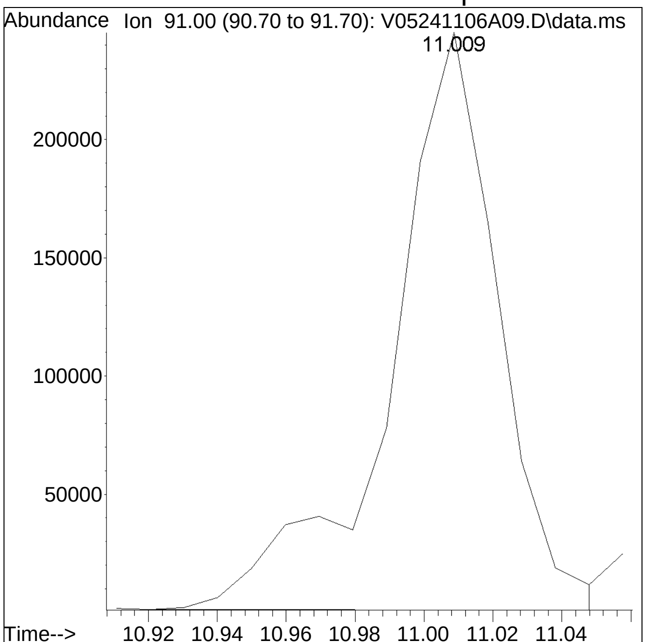
Manual Peak Response = 40984 M6

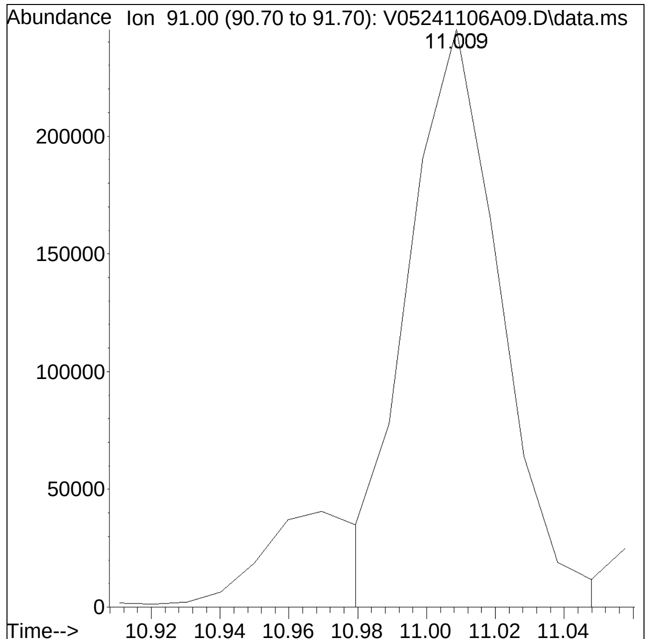
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

# Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Data File : V05241106A09.D
Date Inj'd : 11/6/2024 6:58 am
Sample : I8260STD10PPB
Method : V105_241106A_8260.m
Operator : VOA105:PID
Instrument : VOA105
Quant Date : 11/6/2024 11:36 am

Compound #89: 2-Chlorotoluene



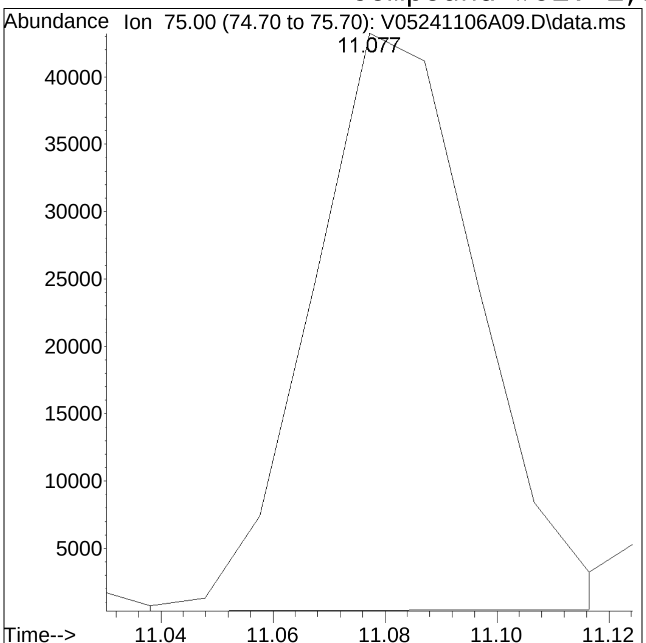

Original Peak Response = 528430
Manual Peak Response = 455090 M6

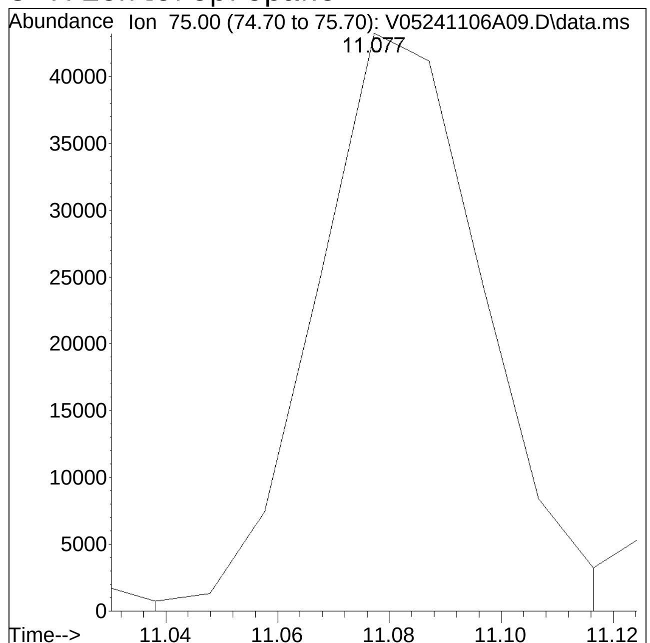
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA105\2024\241106AICALQ | Method | : V105_241106A_8260.m |
| Data File | : V05241106A09.D | Operator | : VOA105:PID |
| Date Inj'd | : 11/6/2024 6:58 am | Instrument | : VOA105 |
| Sample | : I8260STD10PPB | Quant Date | : 11/6/2024 11:36 am |

Compound #91: 1,2,3-Trichloropropane



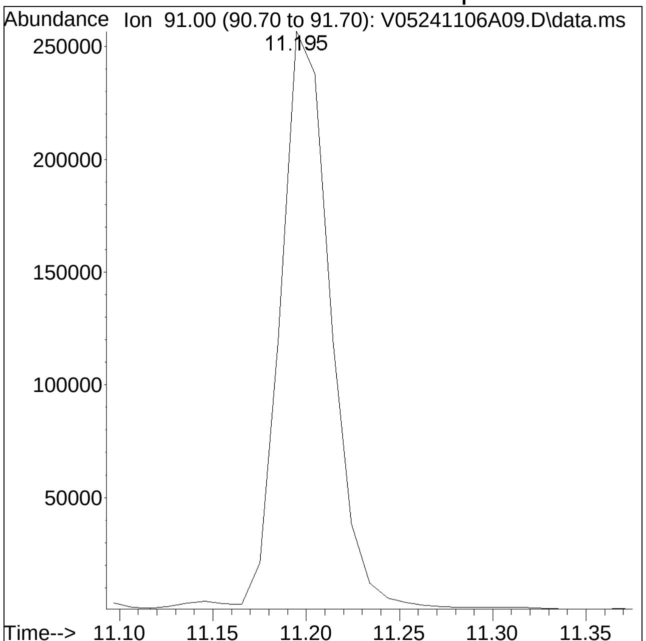

Original Peak Response = 88379 Manual Peak Response = 90300 M4

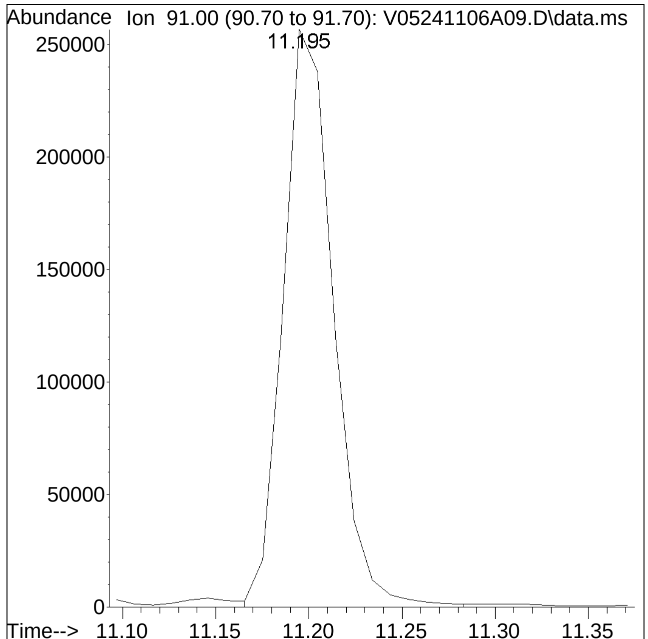
M4 = Poor automated baseline construction.

Manual Integration Report

```
Data Path    : K:\VOA105\2024\241106AICALQMethod     : V105_241106A_8260.m
Data File    : V05241106A09.D              Operator    : VOA105:PID
Date Inj'd   : 11/6/2024  6:58 am          Instrument  : VOA105
Sample       : I8260STD10PPB               Quant Date  : 11/6/2024 11:36 am
```

Compound #93: 4-Chlorotoluene




Original Peak Response = 487010        Manual Peak Response = 481756 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A10.D
Acq On : 6 Nov 2024 7:24 am
Operator : VOA105:PID
Sample : I8260STD30PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 06 11:37:10 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) Fluorobenzene | 5.655 | 96 | 533529 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 541185 | | | Recovery | = 98.59% | |
| 59) Chlorobenzene-d5 | 9.147 | 117 | 409169 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 409349 | | | Recovery | = 99.96% | |
| 79) 1,4-Dichlorobenzene-d4 | 11.920 | 152 | 217510 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 216300 | | | Recovery | = 100.56% | |
| System Monitoring Compounds | | | | | |
| 36) Dibromofluoromethane | 4.873 | 113 | 137116 | 9.974 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 99.74% | |
| 43) 1,2-Dichloroethane-d4 | 5.381 | 65 | 179909 | 9.927 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 99.27% | |
| 60) Toluene-d8 | 7.318 | 98 | 519875 | 10.137 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 101.37% | |
| 83) 4-Bromofluorobenzene | 10.676 | 95 | 197597 | 9.987 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 99.87% | |

| Target Compounds | R.T. | QIon | Response | Conc Units | Qvalue |
|---|---|---|---|---|---|
| 2) Dichlorodifluoromethane | 1.488 | 85 | 563567 | 32.072 ug/L # | 95 |
| 3) Chloromethane | 1.664 | 50 | 760867 | 31.249 ug/L | 96 |
| 4) Vinyl chloride | 1.723 | 62 | 664638 | 32.125 ug/L | 91 |
| 5) Bromomethane | 2.007 | 94 | 127312 | 27.735 ug/L | 97 |
| 6) Chloroethane | 2.105 | 64 | 331290 | 32.884 ug/L | 89 |
| 7) Trichlorofluoromethane | 2.241 | 101 | 683739 | 33.416 ug/L | 100 |
| 8) Ethyl ether | 2.515 | 74 | 148099 | 32.351 ug/L # | 1 |
| 10) 1,1-Dichloroethene | 2.691 | 96 | 311033 | 30.727 ug/L # | 45 |
| 11) Carbon disulfide | 2.721 | 76 | 1011228 | 30.785 ug/L | 100 |
| 12) Freon-113 | 2.721 | 101 | 350955 | 31.838 ug/L # | 76 |
| 14) Acrolein | 3.014 | 56 | 60681 | 30.259 ug/L | 100 |
| 15) Methylene chloride | 3.229 | 84 | 379728 | 29.126 ug/L # | 6 |
| 17) Acetone | 3.288 | 43 | 97940 | 26.542 ug/L # | 88 |
| 18) trans-1,2-Dichloroethene | 3.366 | 96 | 395749 | 31.704 ug/L # | 65 |
| 19) Methyl acetate | 3.386 | 43 | 287652 | 32.078 ug/L # | 71 |
| 20) Methyl tert-butyl ether | 3.464 | 73 | 836569 | 31.247 ug/L # | 63 |
| 21) tert-Butyl alcohol | 3.572 | 59 | 126738 | 150.002 ug/L | 94 |
| 22) Diisopropyl ether | 3.806 | 45 | 2347776 | 32.358 ug/L # | 82 |
| 23) 1,1-Dichloroethane | 3.934 | 63 | 994777 | 31.345 ug/L | 92 |
| 24) Halothane | 3.992 | 117 | 316690 | 31.848 ug/L | 99 |
| 25) Acrylonitrile | 3.992 | 53 | 150818 | 30.371 ug/L # | 86 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A10.D
Acq On : 6 Nov 2024 7:24 am
Operator : VOA105:PID
Sample : I8260STD30PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 06 11:37:10 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 26) Ethyl tert-butyl ether | 4.139 | 59 | 1634487 | 31.804 | ug/L # | 68 |
| 27) Vinyl acetate | 4.159 | 43 | 1276113M6 | 32.648 | ug/L | |
| 28) cis-1,2-Dichloroethene | 4.432 | 96 | 436214 | 31.508 | ug/L # | 67 |
| 29) 2,2-Dichloropropane | 4.530 | 77 | 635085 | 31.761 | ug/L # | 70 |
| 30) Bromochloromethane | 4.628 | 128 | 190937 | 31.654 | ug/L # | 24 |
| 31) Cyclohexane | 4.608 | 56 | 1338813 | 31.921 | ug/L # | 46 |
| 32) Chloroform | 4.696 | 83 | 699765 | 30.822 | ug/L # | 89 |
| 33) Ethyl acetate | 4.804 | 43 | 435880 | 33.508 | ug/L # | 88 |
| 34) Carbon tetrachloride | 4.814 | 117 | 625193 | 31.838 | ug/L | 98 |
| 35) Tetrahydrofuran | 4.843 | 42 | 123885M6 | 29.901 | ug/L | |
| 37) 1,1,1-Trichloroethane | 4.873 | 97 | 677974 | 31.716 | ug/L # | 89 |
| 39) 2-Butanone | 4.990 | 43 | 181412 | 31.734 | ug/L # | 46 |
| 40) 1,1-Dichloropropene | 5.000 | 75 | 573373 | 31.371 | ug/L | 97 |
| 41) Benzene | 5.234 | 78 | 1623091 | 31.550 | ug/L # | 78 |
| 42) tert-Amyl methyl ether | 5.342 | 73 | 910277 | 31.044 | ug/L | 88 |
| 44) 1,2-Dichloroethane | 5.450 | 62 | 630278 | 30.882 | ug/L | 96 |
| 47) Methyl cyclohexane | 5.802 | 83 | 736049 | 32.263 | ug/L # | 12 |
| 48) Trichloroethene | 5.821 | 95 | 428926 | 30.373 | ug/L | 95 |
| 50) Dibromomethane | 6.261 | 93 | 212408 | 30.674 | ug/L | 97 |
| 51) 1,2-Dichloropropane | 6.359 | 63 | 553921 | 31.474 | ug/L # | 81 |
| 53) 2-Chloroethyl vinyl ether | 7.054 | 63 | 271123 | 33.501 | ug/L # | 74 |
| 54) Bromodichloromethane | 6.437 | 83 | 537130 | 31.398 | ug/L | 98 |
| 57) 1,4-Dioxane | 6.653 | 88 | 37750 | 587.959 | ug/L # | 44 |
| 58) cis-1,3-Dichloropropene | 7.122 | 75 | 633407 | 32.488 | ug/L # | 70 |
| 61) Toluene | 7.367 | 92 | 1031328 | 31.649 | ug/L | 100 |
| 62) 4-Methyl-2-pentanone | 7.817 | 58 | 137902 | 32.563 | ug/L # | 78 |
| 63) Tetrachloroethene | 7.807 | 166 | 456212 | 31.948 | ug/L | 94 |
| 65) trans-1,3-Dichloropropene | 7.865 | 75 | 542222 | 34.175 | ug/L # | 68 |
| 67) Ethyl methacrylate | 8.051 | 69 | 344284 | 33.048 | ug/L | 92 |
| 68) 1,1,2-Trichloroethane | 8.051 | 83 | 242181 | 32.151 | ug/L | 98 |
| 69) Chlorodibromomethane | 8.257 | 129 | 385396 | 32.451 | ug/L | 99 |
| 70) 1,3-Dichloropropane | 8.364 | 76 | 520876 | 31.435 | ug/L | 100 |
| 71) 1,2-Dibromoethane | 8.521 | 107 | 298373 | 32.040 | ug/L | 100 |
| 72) 2-Hexanone | 8.814 | 43 | 256265 | 33.162 | ug/L | 94 |
| 73) Chlorobenzene | 9.167 | 112 | 1105654 | 31.332 | ug/L | 93 |
| 74) Ethylbenzene | 9.196 | 91 | 2061867 | 31.767 | ug/L | 95 |
| 75) 1,1,1,2-Tetrachloroethane | 9.245 | 131 | 396704 | 31.980 | ug/L | 98 |
| 76) p/m Xylene | 9.383 | 106 | 1566363 | 63.668 | ug/L | 89 |
| 77) o Xylene | 9.931 | 106 | 1489911 | 63.304 | ug/L | 88 |
| 78) Styrene | 10.000 | 104 | 2433906 | 64.007 | ug/L | 90 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A10.D
Acq On : 6 Nov 2024 7:24 am
Operator : VOA105:PID
Sample : I8260STD30PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 06 11:37:10 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 80) Bromoform | 10.039 | 173 | 209891 | 32.582 ug/L | 98 |
| 82) Isopropylbenzene | 10.333 | 105 | 2123602 | 31.376 ug/L | 96 |
| 84) Bromobenzene | 10.783 | 156 | 448755 | 30.695 ug/L | 99 |
| 85) n-Propylbenzene | 10.832 | 91 | 2445374 | 31.471 ug/L | 96 |
| 86) 1,4-Dichlorobutane | 10.862 | 55 | 783672 | 30.837 ug/L # | 86 |
| 87) 1,1,2,2-Tetrachloroethane | 10.940 | 83 | 325469 | 30.629 ug/L | 98 |
| 88) 4-Ethyltoluene | 10.969 | 105 | 2005106 | 31.328 ug/L | 97 |
| 89) 2-Chlorotoluene | 11.009 | 91 | 1346035M6 | 30.387 ug/L | |
| 90) 1,3,5-Trimethylbenzene | 11.067 | 105 | 1750920 | 31.418 ug/L | 95 |
| 91) 1,2,3-Trichloropropane | 11.077 | 75 | 265988M1 | 30.525 ug/L | |
| 92) trans-1,4-Dichloro-2-b... | 11.136 | 53 | 154728 | 33.045 ug/L # | 85 |
| 93) 4-Chlorotoluene | 11.195 | 91 | 1407701 | 30.404 ug/L | 94 |
| 94) tert-Butylbenzene | 11.420 | 119 | 1529410 | 31.203 ug/L | 95 |
| 97) 1,2,4-Trimethylbenzene | 11.498 | 105 | 1695543 | 31.627 ug/L | 95 |
| 98) sec-Butylbenzene | 11.606 | 105 | 2197181 | 31.404 ug/L | 99 |
| 99) p-Isopropyltoluene | 11.773 | 119 | 1926286 | 31.574 ug/L | 97 |
| 100) 1,3-Dichlorobenzene | 11.841 | 146 | 885448 | 30.816 ug/L | 97 |
| 101) 1,4-Dichlorobenzene | 11.939 | 146 | 876589 | 30.536 ug/L | 98 |
| 102) p-Diethylbenzene | 12.155 | 119 | 1115548 | 31.564 ug/L | 99 |
| 103) n-Butylbenzene | 12.214 | 91 | 1587330 | 32.043 ug/L | 99 |
| 104) 1,2-Dichlorobenzene | 12.370 | 146 | 792234 | 30.580 ug/L | 98 |
| 105) 1,2,4,5-Tetramethylben... | 12.958 | 119 | 1634300 | 31.850 ug/L | 97 |
| 106) 1,2-Dibromo-3-chloropr... | 13.154 | 155 | 49778 | 32.658 ug/L | 96 |
| 107) 1,3,5-Trichlorobenzene | 13.183 | 180 | 605622 | 31.478 ug/L | 99 |
| 108) Hexachlorobutadiene | 13.761 | 225 | 218092 | 30.840 ug/L | 100 |
| 109) 1,2,4-Trichlorobenzene | 13.781 | 180 | 523214 | 31.982 ug/L | 99 |
| 110) Naphthalene | 14.075 | 128 | 1153656 | 31.802 ug/L | 100 |
| 111) 1,2,3-Trichlorobenzene | 14.251 | 180 | 439440 | 31.841 ug/L | 99 |

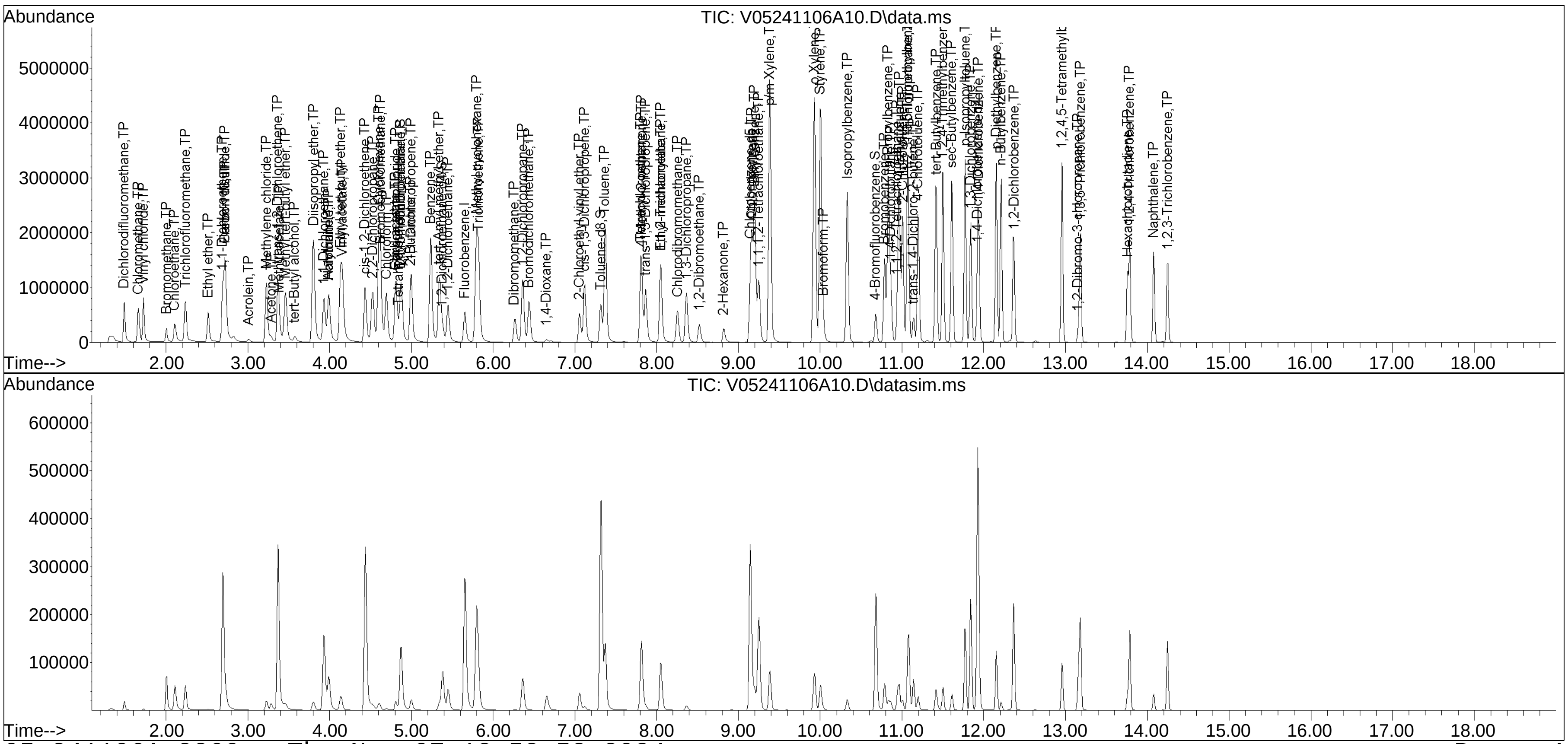
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A10.D
Acq On : 6 Nov 2024 7:24 am
Operator : VOA105:PID
Sample : I8260STD30PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 06 11:37:10 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

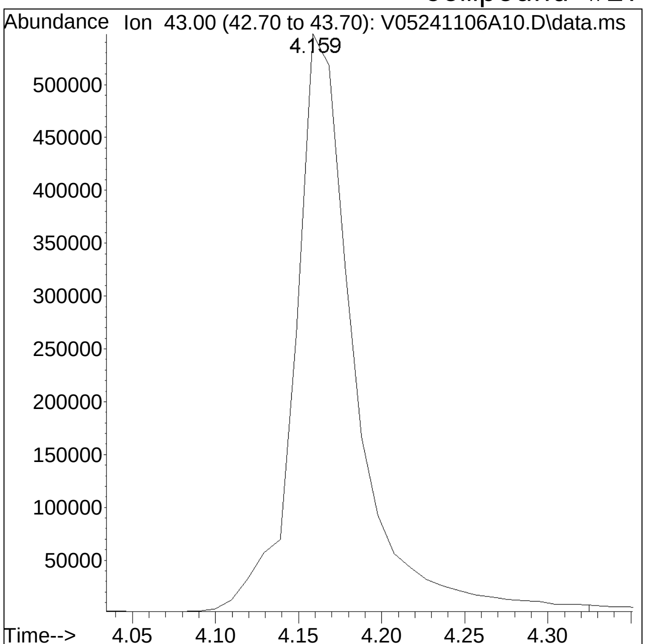
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

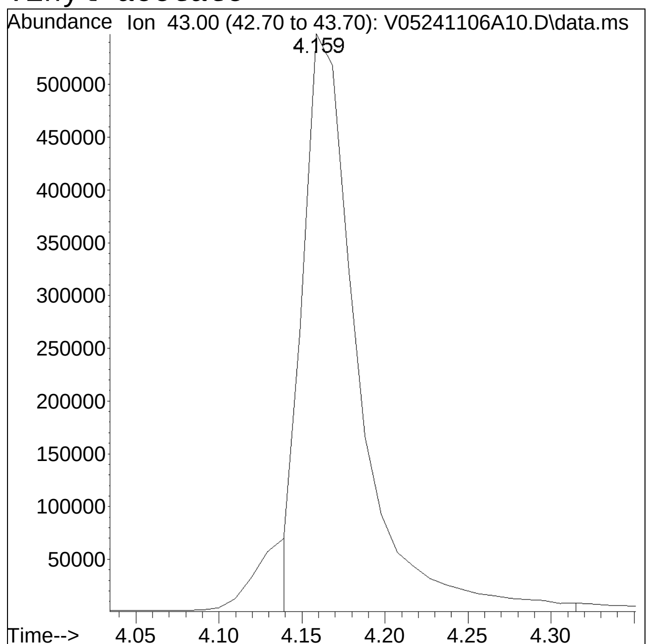


Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA105\2024\241106AICALQ | Method | : V105_241106A_8260.m |
| Data File | : V05241106A10.D | Operator | : VOA105:PID |
| Date Inj'd | : 11/6/2024  7:24 am | Instrument | : VOA105 |
| Sample | : I8260STD30PPB | Quant Date | : 11/6/2024 11:37 am |

Compound #27: Vinyl acetate




Original Peak Response = 1368105    Manual Peak Response = 1276113 M6

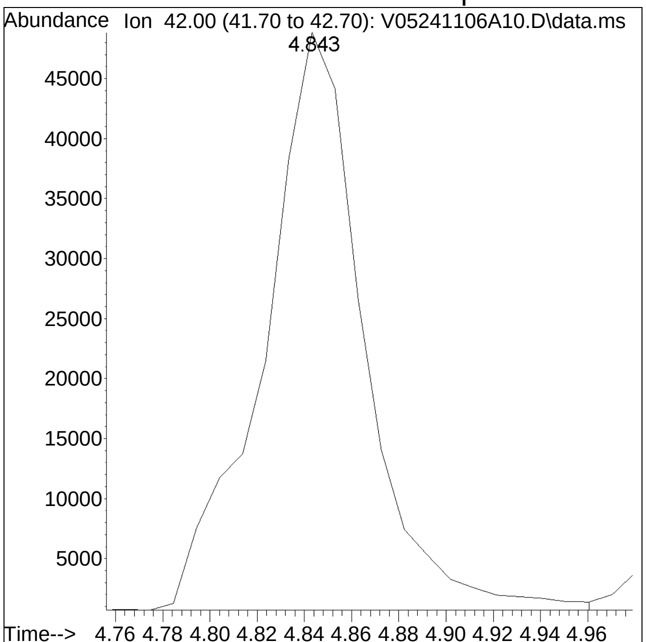
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

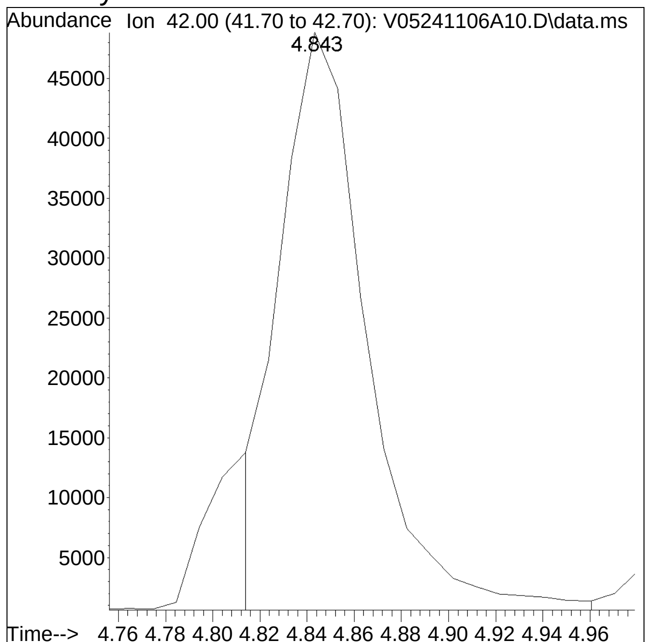
Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Data File : V05241106A10.D
Date Inj'd : 11/6/2024 7:24 am
Sample : I8260STD30PPB

Method : V105_241106A_8260.m
Operator : VOA105:PID
Instrument : VOA105
Quant Date : 11/6/2024 11:37 am

Compound #35: Tetrahydrofuran




Original Peak Response = 141514

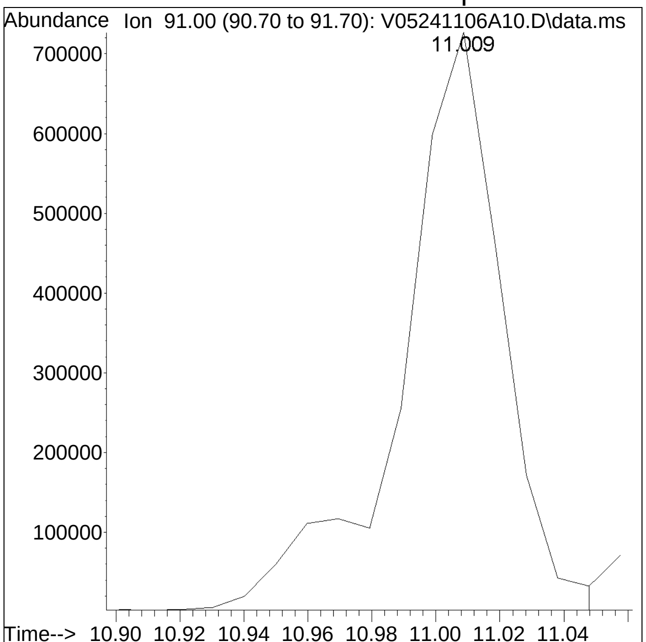
Manual Peak Response = 123885 M6

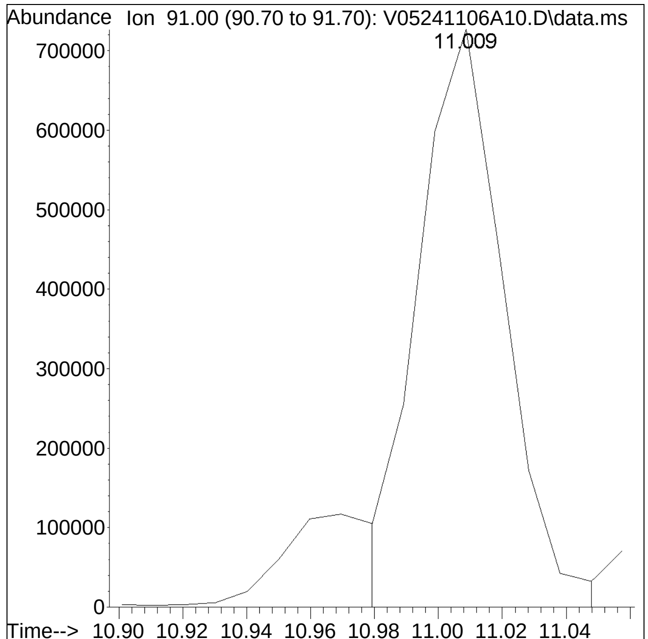
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

```
Data Path    : K:\VOA105\2024\241106AICALQMethod     : V105_241106A_8260.m
Data File    : V05241106A10.D             Operator    : VOA105:PID
Date Inj'd   : 11/6/2024  7:24 am         Instrument  : VOA105
Sample       : I8260STD30PPB              Quant Date  : 11/6/2024 11:37 am
```

Compound #89: 2-Chlorotoluene



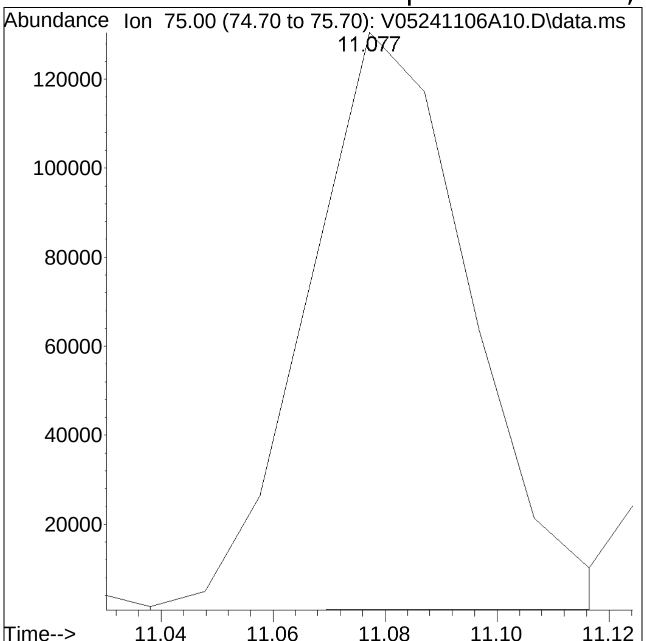

Original Peak Response = 1574242    Manual Peak Response = 1346035 M6

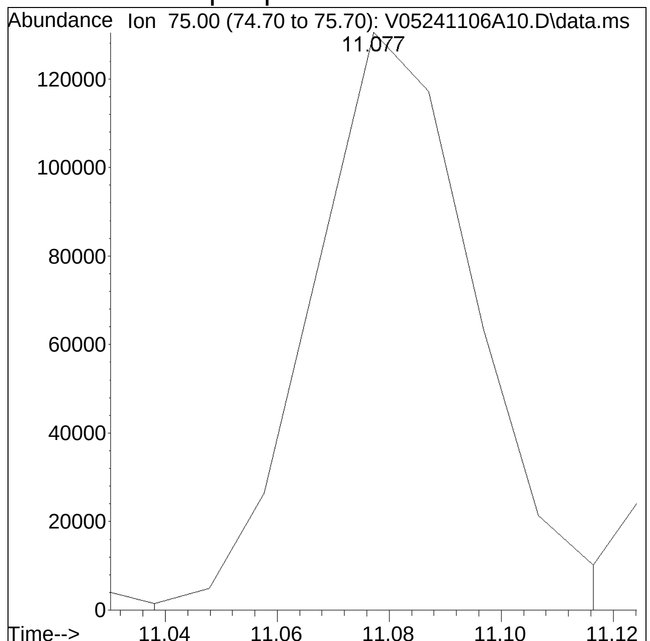
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

```
Data Path    : K:\VOA105\2024\241106AICALQMethod     : V105_241106A_8260.m
Data File    : V05241106A10.D              Operator    : VOA105:PID
Date Inj'd   : 11/6/2024  7:24 am          Instrument  : VOA105
Sample       : I8260STD30PPB               Quant Date  : 11/6/2024 11:37 am
```

Compound #91: 1,2,3-Trichloropropane




Original Peak Response = 262265     Manual Peak Response = 265988 M1

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

Quantitation Report    (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A11.D
Acq On    :  6 Nov 2024   7:49 am
Operator  : VOA105:PID
Sample    : I8260STD80PPB
Misc      : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Nov 06 11:37:17 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List     : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) Fluorobenzene | 5.655 | 96 | 545636 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 541185 | | | Recovery | = 100.82% | |
| 59) Chlorobenzene-d5 | 9.147 | 117 | 429089 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 409349 | | | Recovery | = 104.82% | |
| 79) 1,4-Dichlorobenzene-d4 | 11.920 | 152 | 223002 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 216300 | | | Recovery | = 103.10% | |
| System Monitoring Compounds | | | | | |
| 36) Dibromofluoromethane | 4.872 | 113 | 137261 | 9.763 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 97.63% | |
| 43) 1,2-Dichloroethane-d4 | 5.381 | 65 | 179019 | 9.659 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 96.59% | |
| 60) Toluene-d8 | 7.318 | 98 | 536104 | 9.968 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 99.68% | |
| 83) 4-Bromofluorobenzene | 10.675 | 95 | 204635 | 10.088 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 100.88% | |

| Target Compounds | R.T. | QIon | Response | Conc Units | Qvalue |
|---|---|---|---|---|---|
| 2) Dichlorodifluoromethane | 1.488 | 85 | 1524933 | 84.857 ug/L # | 95 |
| 3) Chloromethane | 1.664 | 50 | 2081161 | 83.578 ug/L | 96 |
| 4) Vinyl chloride | 1.723 | 62 | 1843049 | 87.107 ug/L | 92 |
| 5) Bromomethane | 2.007 | 94 | 421604 | 89.808 ug/L | 97 |
| 6) Chloroethane | 2.104 | 64 | 821883 | 79.771 ug/L | 89 |
| 7) Trichlorofluoromethane | 2.241 | 101 | 1750974 | 83.675 ug/L | 100 |
| 8) Ethyl ether | 2.515 | 74 | 373058 | 79.684 ug/L # | 1 |
| 10) 1,1-Dichloroethene | 2.691 | 96 | 846830 | 81.801 ug/L # | 46 |
| 11) Carbon disulfide | 2.721 | 76 | 2806811 | 83.552 ug/L | 99 |
| 12) Freon-113 | 2.730 | 101 | 941601 | 83.526 ug/L # | 72 |
| 14) Acrolein | 3.014 | 56 | 164888 | 80.399 ug/L | 97 |
| 15) Methylene chloride | 3.229 | 84 | 1006548 | 75.491 ug/L # | 7 |
| 17) Acetone | 3.278 | 43 | 281733 | 74.656 ug/L | 93 |
| 18) trans-1,2-Dichloroethene | 3.366 | 96 | 1045883 | 81.927 ug/L # | 64 |
| 19) Methyl acetate | 3.386 | 43 | 790376 | 86.185 ug/L # | 71 |
| 20) Methyl tert-butyl ether | 3.464 | 73 | 2255069 | 82.362 ug/L # | 65 |
| 21) tert-Butyl alcohol | 3.572 | 59 | 368034 | 425.926 ug/L | 91 |
| 22) Diisopropyl ether | 3.806 | 45 | 6276410 | 84.584 ug/L # | 81 |
| 23) 1,1-Dichloroethane | 3.933 | 63 | 2624238 | 80.853 ug/L | 92 |
| 24) Halothane | 3.992 | 117 | 840873 | 82.687 ug/L | 100 |
| 25) Acrylonitrile | 3.992 | 53 | 413875 | 81.494 ug/L # | 84 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A11.D
Acq On : 6 Nov 2024 7:49 am
Operator : VOA105:PID
Sample : I8260STD80PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 06 11:37:17 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 26) Ethyl tert-butyl ether | 4.139 | 59 | 4412199 | 83.948 ug/L # | 67 |
| 27) Vinyl acetate | 4.158 | 43 | 3732115 | 93.362 ug/L # | 87 |
| 28) cis-1,2-Dichloroethene | 4.432 | 96 | 1147276 | 81.031 ug/L # | 66 |
| 29) 2,2-Dichloropropane | 4.530 | 77 | 1695752 | 82.924 ug/L # | 72 |
| 30) Bromochloromethane | 4.628 | 128 | 468099 | 75.880 ug/L # | 24 |
| 31) Cyclohexane | 4.608 | 56 | 3553548 | 82.847 ug/L # | 46 |
| 32) Chloroform | 4.696 | 83 | 1878857 | 80.920 ug/L # | 90 |
| 33) Ethyl acetate | 4.804 | 43 | 1205129 | 90.589 ug/L # | 87 |
| 34) Carbon tetrachloride | 4.814 | 117 | 1753622 | 87.322 ug/L | 98 |
| 35) Tetrahydrofuran | 4.843 | 42 | 329757M6 | 77.825 ug/L | |
| 37) 1,1,1-Trichloroethane | 4.882 | 97 | 1822257 | 83.355 ug/L # | 90 |
| 39) 2-Butanone | 4.990 | 43 | 518332 | 88.658 ug/L # | 46 |
| 40) 1,1-Dichloropropene | 5.000 | 75 | 1555837 | 83.237 ug/L | 97 |
| 41) Benzene | 5.234 | 78 | 4381858 | 83.286 ug/L # | 78 |
| 42) tert-Amyl methyl ether | 5.342 | 73 | 2518987 | 84.002 ug/L | 89 |
| 44) 1,2-Dichloroethane | 5.449 | 62 | 1694691 | 81.192 ug/L | 95 |
| 47) Methyl cyclohexane | 5.802 | 83 | 1991377 | 85.349 ug/L # | 12 |
| 48) Trichloroethene | 5.821 | 95 | 1151903 | 79.758 ug/L | 95 |
| 50) Dibromomethane | 6.261 | 93 | 578250 | 81.653 ug/L | 97 |
| 51) 1,2-Dichloropropane | 6.359 | 63 | 1492064 | 82.900 ug/L # | 81 |
| 53) 2-Chloroethyl vinyl ether | 7.053 | 63 | 721327 | 87.152 ug/L # | 74 |
| 54) Bromodichloromethane | 6.437 | 83 | 1472176 | 84.146 ug/L | 97 |
| 57) 1,4-Dioxane | 6.652 | 88 | 57802 | 880.294 ug/L # | 40 |
| 58) cis-1,3-Dichloropropene | 7.122 | 75 | 1750523 | 87.792 ug/L # | 72 |
| 61) Toluene | 7.376 | 92 | 2785710 | 81.519 ug/L | 99 |
| 62) 4-Methyl-2-pentanone | 7.816 | 58 | 393326 | 88.565 ug/L # | 81 |
| 63) Tetrachloroethene | 7.807 | 166 | 1245395 | 83.166 ug/L | 93 |
| 65) trans-1,3-Dichloropropene | 7.865 | 75 | 1491104 | 89.619 ug/L # | 69 |
| 67) Ethyl methacrylate | 8.051 | 69 | 942175 | 86.241 ug/L | 91 |
| 68) 1,1,2-Trichloroethane | 8.051 | 83 | 653886 | 82.778 ug/L | 97 |
| 69) Chlorodibromomethane | 8.257 | 129 | 1080256 | 86.736 ug/L | 98 |
| 70) 1,3-Dichloropropane | 8.364 | 76 | 1418663 | 81.642 ug/L | 100 |
| 71) 1,2-Dibromoethane | 8.521 | 107 | 826021 | 84.583 ug/L | 100 |
| 72) 2-Hexanone | 8.814 | 43 | 727692 | 89.795 ug/L | 95 |
| 73) Chlorobenzene | 9.167 | 112 | 3002745 | 81.143 ug/L | 94 |
| 74) Ethylbenzene | 9.196 | 91 | 5557229 | 81.646 ug/L | 95 |
| 75) 1,1,1,2-Tetrachloroethane | 9.245 | 131 | 1098913 | 84.475 ug/L | 98 |
| 76) p/m Xylene | 9.382 | 106 | 4267145 | 165.395 ug/L | 88 |
| 77) o Xylene | 9.931 | 106 | 4030160 | 163.285 ug/L | 88 |
| 78) Styrene | 10.009 | 104 | 6609966 | 165.758 ug/L | 91 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A11.D
Acq On : 6 Nov 2024 7:49 am
Operator : VOA105:PID
Sample : I8260STD80PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 06 11:37:17 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

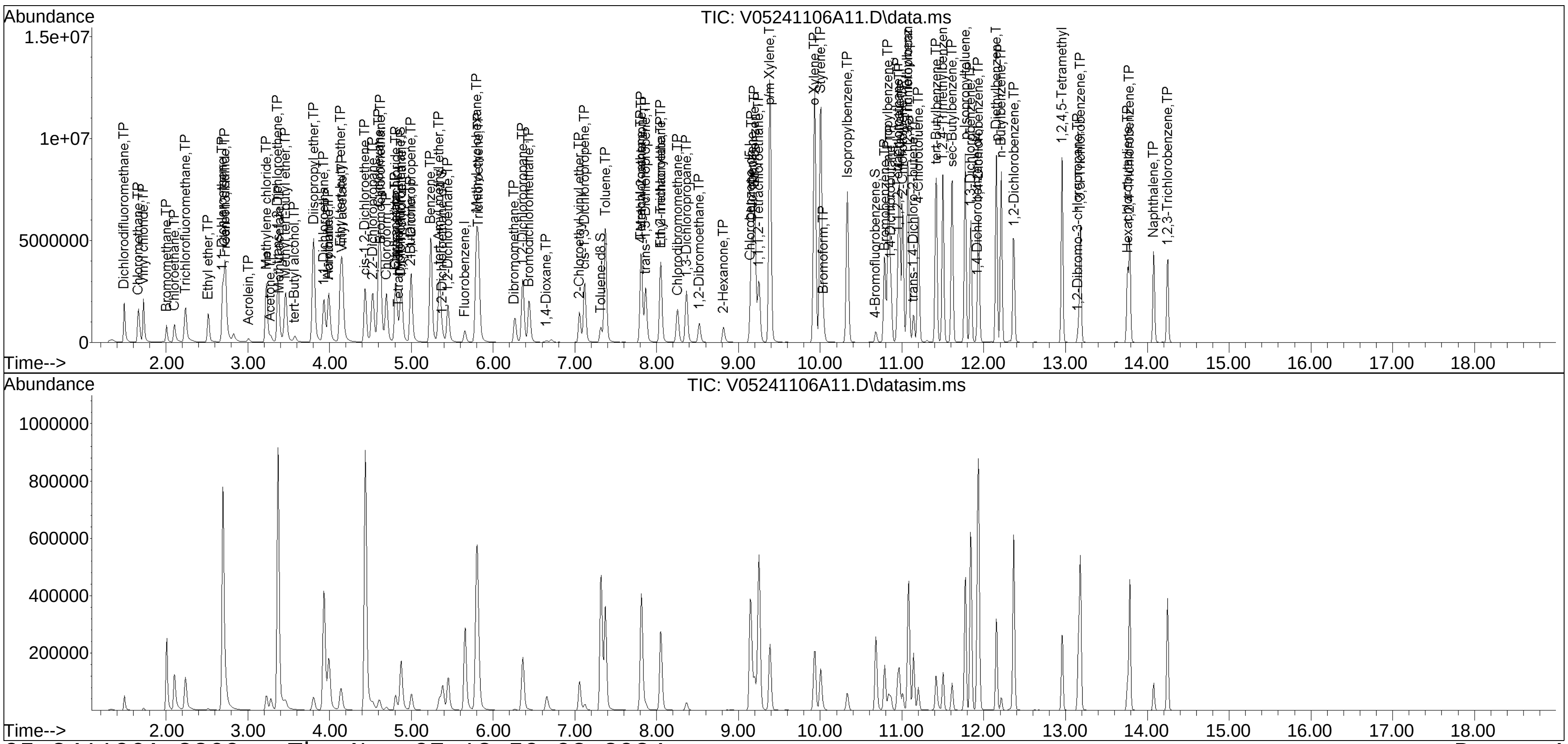
CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 80) | Bromoform | 10.039 | 173 | 593635 | 89.883 | ug/L | | 97 |
| 82) | Isopropylbenzene | 10.333 | 105 | 5757998 | 82.980 | ug/L | | 96 |
| 84) | Bromobenzene | 10.793 | 156 | 1234285 | 82.345 | ug/L | | 100 |
| 85) | n-Propylbenzene | 10.832 | 91 | 6726182 | 84.431 | ug/L | | 96 |
| 86) | 1,4-Dichlorobutane | 10.862 | 55 | 2156671 | 82.773 | ug/L | # | 86 |
| 87) | 1,1,2,2-Tetrachloroethane | 10.950 | 83 | 908839 | 83.423 | ug/L | | 99 |
| 88) | 4-Ethyltoluene | 10.969 | 105 | 5467324 | 83.318 | ug/L | | 97 |
| 89) | 2-Chlorotoluene | 11.009 | 91 | 3719822M6 | 81.907 | ug/L | | |
| 90) | 1,3,5-Trimethylbenzene | 11.067 | 105 | 4711693 | 82.464 | ug/L | | 95 |
| 91) | 1,2,3-Trichloropropane | 11.077 | 75 | 731587M1 | 81.889 | ug/L | | |
| 92) | trans-1,4-Dichloro-2-b... | 11.136 | 53 | 415690 | 86.592 | ug/L | # | 88 |
| 93) | 4-Chlorotoluene | 11.204 | 91 | 3867135 | 81.467 | ug/L | | 95 |
| 94) | tert-Butylbenzene | 11.420 | 119 | 4221821 | 84.012 | ug/L | | 95 |
| 97) | 1,2,4-Trimethylbenzene | 11.498 | 105 | 4617527 | 84.010 | ug/L | | 95 |
| 98) | sec-Butylbenzene | 11.616 | 105 | 6085471 | 84.836 | ug/L | | 99 |
| 99) | p-Isopropyltoluene | 11.773 | 119 | 5288710 | 84.554 | ug/L | | 97 |
| 100) | 1,3-Dichlorobenzene | 11.841 | 146 | 2421533 | 82.202 | ug/L | | 98 |
| 101) | 1,4-Dichlorobenzene | 11.939 | 146 | 2405179 | 81.720 | ug/L | | 98 |
| 102) | p-Diethylbenzene | 12.155 | 119 | 3080189 | 85.006 | ug/L | | 99 |
| 103) | n-Butylbenzene | 12.213 | 91 | 4315914 | 84.979 | ug/L | | 99 |
| 104) | 1,2-Dichlorobenzene | 12.370 | 146 | 2197532 | 82.736 | ug/L | | 97 |
| 105) | 1,2,4,5-Tetramethylben... | 12.958 | 119 | 4544888 | 86.391 | ug/L | | 97 |
| 106) | 1,2-Dibromo-3-chloropr... | 13.154 | 155 | 145602 | 93.172 | ug/L | | 98 |
| 107) | 1,3,5-Trichlorobenzene | 13.183 | 180 | 1664933 | 84.407 | ug/L | | 99 |
| 108) | Hexachlorobutadiene | 13.761 | 225 | 619440 | 85.437 | ug/L | | 100 |
| 109) | 1,2,4-Trichlorobenzene | 13.781 | 180 | 1435381 | 85.579 | ug/L | | 99 |
| 110) | Naphthalene | 14.075 | 128 | 3171003 | 85.261 | ug/L | | 100 |
| 111) | 1,2,3-Trichlorobenzene | 14.251 | 180 | 1204451 | 85.122 | ug/L | | 99 |

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

Quantitation Report    (QT Reviewed)

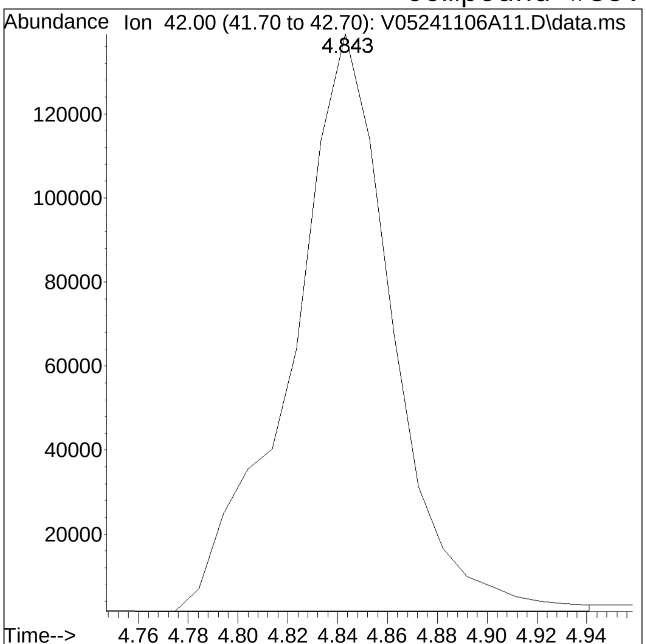
```
Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A11.D
Acq On    :  6 Nov 2024   7:49 am
Operator  : VOA105:PID
Sample    : I8260STD80PPB
Misc      : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Nov 06 11:37:17 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

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

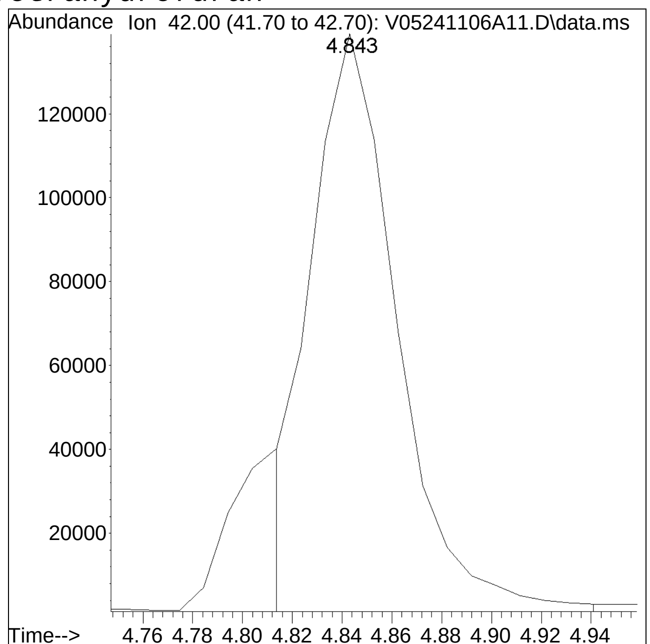


Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQMethod : V105_241106A_8260.m
Data File : V05241106A11.D Operator : VOA105:PID
Date Inj'd : 11/6/2024 7:49 am Instrument : VOA105
Sample : I8260STD80PPB Quant Date : 11/6/2024 11:37 am

Compound #35: Tetrahydrofuran



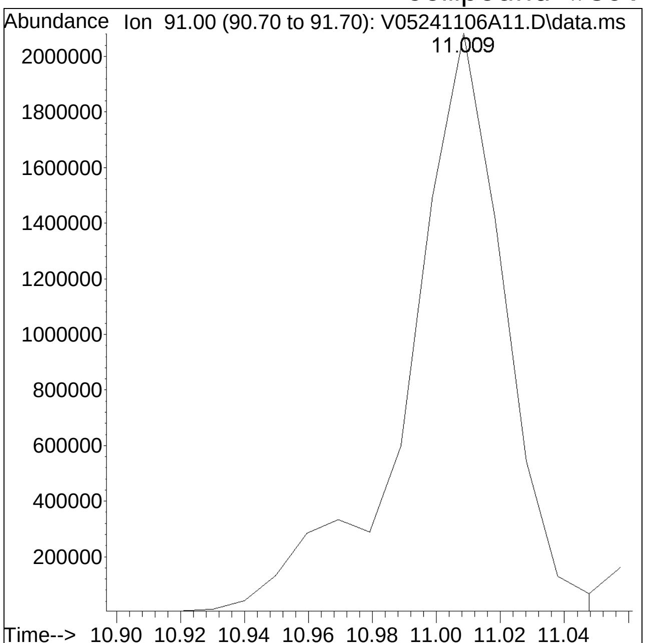

Original Peak Response = 386573 Manual Peak Response = 329757 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

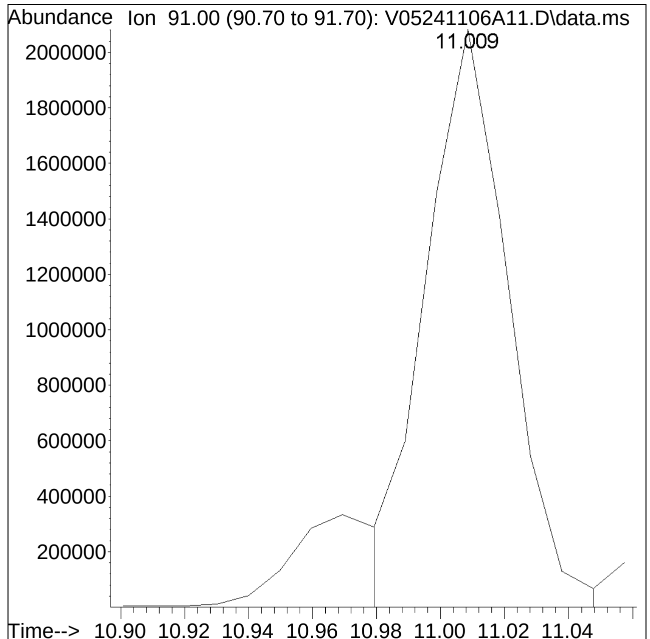
Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Data File : V05241106A11.D
Date Inj'd : 11/6/2024 7:49 am
Sample : I8260STD80PPB

Method : V105_241106A_8260.m
Operator : VOA105:PID
Instrument : VOA105
Quant Date : 11/6/2024 11:37 am

Compound #89: 2-Chlorotoluene




Original Peak Response = 4330853
Manual Peak Response = 3719822 M6

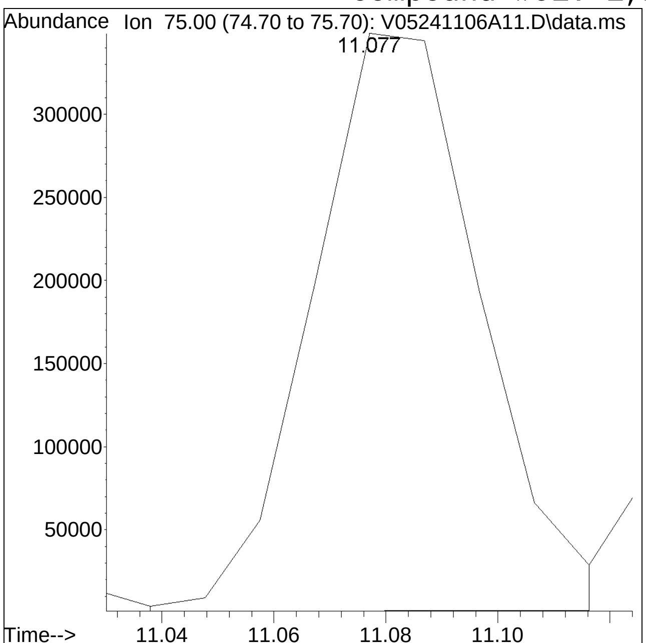
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

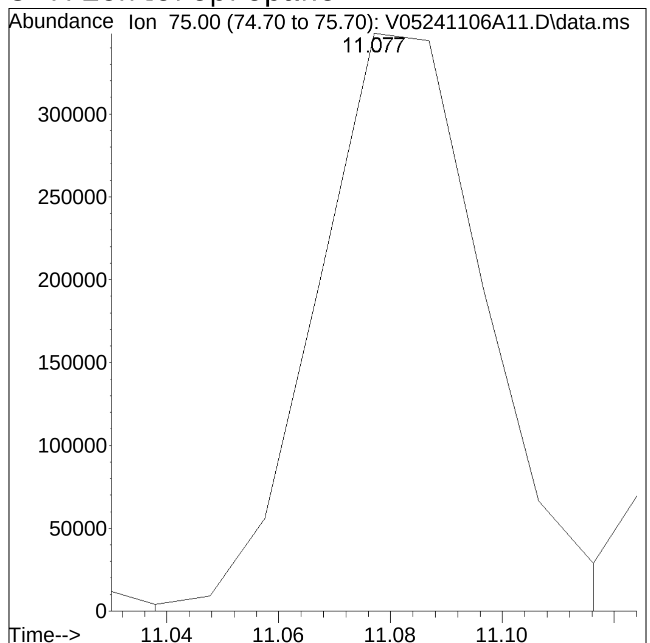
Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Data File : V05241106A11.D
Date Inj'd : 11/6/2024 7:49 am
Sample : I8260STD80PPB

Method : V105_241106A_8260.m
Operator : VOA105:PID
Instrument : VOA105
Quant Date : 11/6/2024 11:37 am

Compound #91: 1,2,3-Trichloropropane




Original Peak Response = 725387
Manual Peak Response = 731587 M1

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

Quantitation Report (QT Reviewed)

```
Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A12.D
Acq On    :  6 Nov 2024   8:14 am
Operator  : VOA105:PID
Sample    : I8260STD120PPB
Misc      : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 12   Sample Multiplier: 1

Quant Time: Nov 06 11:37:32 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List     : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

        Compound                     R.T. QIon  Response  Conc Units Dev(Min)
 --------------------------------------------------------------------------
 Internal Standards
 1) Fluorobenzene               5.655   96    575845    10.000 ug/L     0.00
   Standard Area 1 = 541185                 Recovery   =  106.40%
59) Chlorobenzene-d5            9.147  117    450619    10.000 ug/L     0.00
   Standard Area 1 = 409349                 Recovery   =  110.08%
79) 1,4-Dichlorobenzene-d4     11.920  152    232088    10.000 ug/L     0.00
   Standard Area 1 = 216300                 Recovery   =  107.30%

 System Monitoring Compounds
36) Dibromofluoromethane        4.873  113    145440     9.802 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   98.02%
43) 1,2-Dichloroethane-d4       5.381   65    192300     9.831 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   98.31%
60) Toluene-d8                  7.318   98    563754     9.981 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   99.81%
83) 4-Bromofluorobenzene       10.676   95    215563    10.210 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =  102.10%

 Target Compounds                                                   Qvalue
 2) Dichlorodifluoromethane     1.488   85    2340005    123.382 ug/L #    96
 3) Chloromethane               1.664   50    3303067    125.690 ug/L      96
 4) Vinyl chloride              1.723   62    2835502    126.983 ug/L      91
 5) Bromomethane                2.007   94     787054    158.860 ug/L      98
 6) Chloroethane                2.105   64    1266433    116.471 ug/L      90
 7) Trichlorofluoromethane      2.242  101    2718828    123.110 ug/L     100
 8) Ethyl ether                 2.515   74     611585    123.779 ug/L #     1
10) 1,1-Dichloroethene          2.691   96    1345395    123.143 ug/L #    49
11) Carbon disulfide            2.721   76    4469681    126.072 ug/L      99
12) Freon-113                   2.731  101    1488320    125.097 ug/L #    71
14) Acrolein                    3.004   56     249429    115.241 ug/L     100
15) Methylene chloride          3.229   84    1584185    112.580 ug/L #    12
17) Acetone                     3.278   43     477991    120.017 ug/L      97
18) trans-1,2-Dichloroethene    3.366   96    1609339    119.450 ug/L #    64
19) Methyl acetate              3.386   43    1224501    126.519 ug/L #    71
20) Methyl tert-butyl ether     3.464   73    3561419    123.250 ug/L #    67
21) tert-Butyl alcohol          3.572   59     580606    636.685 ug/L      88
22) Diisopropyl ether           3.806   45    9620329    122.847 ug/L #    82
23) 1,1-Dichloroethane          3.934   63    4051136    118.267 ug/L      92
24) Halothane                   3.992  117    1304643    121.562 ug/L      99
25) Acrylonitrile               3.992   53     655004    122.208 ug/L #    83
```

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A12.D
Acq On : 6 Nov 2024 8:14 am
Operator : VOA105:PID
Sample : I8260STD120PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 06 11:37:32 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 26) Ethyl tert-butyl ether | 4.139 | 59 | 6948738 | 125.273 ug/L # | 68 |
| 27) Vinyl acetate | 4.159 | 43 | 5780431 | 137.017 ug/L # | 88 |
| 28) cis-1,2-Dichloroethene | 4.432 | 96 | 1783925 | 119.387 ug/L # | 67 |
| 29) 2,2-Dichloropropane | 4.530 | 77 | 2609156 | 120.897 ug/L # | 75 |
| 30) Bromochloromethane | 4.628 | 128 | 727845 | 111.796 ug/L # | 27 |
| 31) Cyclohexane | 4.609 | 56 | 5466731 | 120.765 ug/L # | 46 |
| 32) Chloroform | 4.697 | 83 | 2903720 | 118.499 ug/L # | 90 |
| 33) Ethyl acetate | 4.804 | 43 | 1909314 | 135.993 ug/L # | 87 |
| 34) Carbon tetrachloride | 4.814 | 117 | 2717370 | 128.213 ug/L | 98 |
| 35) Tetrahydrofuran | 4.843 | 42 | 602938 | 134.832 ug/L # | 59 |
| 37) 1,1,1-Trichloroethane | 4.882 | 97 | 2801328 | 121.418 ug/L # | 90 |
| 39) 2-Butanone | 4.990 | 43 | 807630 | 130.894 ug/L # | 47 |
| 40) 1,1-Dichloropropene | 5.000 | 75 | 2418349 | 122.593 ug/L | 97 |
| 41) Benzene | 5.234 | 78 | 6860708 | 123.561 ug/L # | 79 |
| 42) tert-Amyl methyl ether | 5.342 | 73 | 4009384 | 126.688 ug/L | 90 |
| 44) 1,2-Dichloroethane | 5.450 | 62 | 2624533 | 119.144 ug/L | 96 |
| 47) Methyl cyclohexane | 5.802 | 83 | 3121771 | 126.778 ug/L # | 15 |
| 48) Trichloroethene | 5.821 | 95 | 1778217 | 116.664 ug/L | 95 |
| 50) Dibromomethane | 6.261 | 93 | 916850 | 122.673 ug/L | 97 |
| 51) 1,2-Dichloropropane | 6.359 | 63 | 2329222 | 122.624 ug/L # | 81 |
| 53) 2-Chloroethyl vinyl ether | 7.054 | 63 | 1149644 | 131.615 ug/L # | 75 |
| 54) Bromodichloromethane | 6.438 | 83 | 2306950 | 124.943 ug/L | 97 |
| 57) 1,4-Dioxane | 6.653 | 88 | 89274 | 1288.271 ug/L # | 41 |
| 58) cis-1,3-Dichloropropene | 7.122 | 75 | 2754517 | 130.898 ug/L # | 74 |
| 61) Toluene | 7.376 | 92 | 4383925 | 122.159 ug/L | 100 |
| 62) 4-Methyl-2-pentanone | 7.817 | 58 | 625141 | 134.037 ug/L # | 84 |
| 63) Tetrachloroethene | 7.807 | 166 | 1945904 | 123.736 ug/L | 94 |
| 65) trans-1,3-Dichloropropene | 7.865 | 75 | 2363239 | 135.250 ug/L # | 72 |
| 67) Ethyl methacrylate | 8.051 | 69 | 1520087 | 132.491 ug/L | 90 |
| 68) 1,1,2-Trichloroethane | 8.051 | 83 | 1030607 | 124.235 ug/L | 97 |
| 69) Chlorodibromomethane | 8.257 | 129 | 1720553 | 131.546 ug/L | 98 |
| 70) 1,3-Dichloropropane | 8.364 | 76 | 2239057 | 122.699 ug/L | 100 |
| 71) 1,2-Dibromoethane | 8.521 | 107 | 1312606 | 127.987 ug/L | 100 |
| 72) 2-Hexanone | 8.814 | 43 | 1160879 | 136.405 ug/L | 95 |
| 73) Chlorobenzene | 9.167 | 112 | 4716194 | 121.356 ug/L | 93 |
| 74) Ethylbenzene | 9.196 | 91 | 8674506 | 121.355 ug/L | 95 |
| 75) 1,1,1,2-Tetrachloroethane | 9.255 | 131 | 1717923 | 125.749 ug/L | 98 |
| 76) p/m Xylene | 9.383 | 106 | 6624949 | 244.515 ug/L | 88 |
| 77) o Xylene | 9.931 | 106 | 6322488 | 243.922 ug/L | 87 |
| 78) Styrene | 10.010 | 104 | 10298956 | 245.928 ug/L | 91 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A12.D
Acq On : 6 Nov 2024 8:14 am
Operator : VOA105:PID
Sample : I8260STD120PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 06 11:37:32 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 80) Bromoform | 10.039 | 173 | 954604 | 138.879 ug/L | 98 |
| 82) Isopropylbenzene | 10.333 | 105 | 9008545 | 124.741 ug/L | 96 |
| 84) Bromobenzene | 10.783 | 156 | 1945700 | 124.725 ug/L | 100 |
| 85) n-Propylbenzene | 10.832 | 91 | 10418852 | 125.663 ug/L | 96 |
| 86) 1,4-Dichlorobutane | 10.862 | 55 | 3372555 | 124.372 ug/L # | 86 |
| 87) 1,1,2,2-Tetrachloroethane | 10.950 | 83 | 1443170 | 127.283 ug/L | 99 |
| 88) 4-Ethyltoluene | 10.970 | 105 | 8551686 | 125.219 ug/L | 97 |
| 89) 2-Chlorotoluene | 11.009 | 91 | 5812846M6 | 122.982 ug/L | |
| 90) 1,3,5-Trimethylbenzene | 11.067 | 105 | 7308048 | 122.897 ug/L | 96 |
| 91) 1,2,3-Trichloropropane | 11.087 | 75 | 1157428M1 | 124.483 ug/L | |
| 92) trans-1,4-Dichloro-2-b... | 11.146 | 53 | 650106 | 130.121 ug/L # | 87 |
| 93) 4-Chlorotoluene | 11.205 | 91 | 6039968 | 122.260 ug/L | 94 |
| 94) tert-Butylbenzene | 11.420 | 119 | 6578360 | 125.780 ug/L | 95 |
| 97) 1,2,4-Trimethylbenzene | 11.499 | 105 | 7103987 | 124.188 ug/L | 95 |
| 98) sec-Butylbenzene | 11.616 | 105 | 9373628 | 125.560 ug/L | 99 |
| 99) p-Isopropyltoluene | 11.773 | 119 | 8141866 | 125.074 ug/L | 97 |
| 100) 1,3-Dichlorobenzene | 11.841 | 146 | 3769878 | 122.963 ug/L | 98 |
| 101) 1,4-Dichlorobenzene | 11.939 | 146 | 3729004 | 121.739 ug/L | 98 |
| 102) p-Diethylbenzene | 12.155 | 119 | 4794607 | 127.139 ug/L | 99 |
| 103) n-Butylbenzene | 12.214 | 91 | 6708431 | 126.915 ug/L | 99 |
| 104) 1,2-Dichlorobenzene | 12.370 | 146 | 3392724 | 122.734 ug/L | 97 |
| 105) 1,2,4,5-Tetramethylben... | 12.958 | 119 | 6989219 | 127.652 ug/L | 97 |
| 106) 1,2-Dibromo-3-chloropr... | 13.154 | 155 | 228098 | 140.247 ug/L | 98 |
| 107) 1,3,5-Trichlorobenzene | 13.183 | 180 | 2582104 | 125.780 ug/L | 98 |
| 108) Hexachlorobutadiene | 13.761 | 225 | 971850 | 128.796 ug/L | 100 |
| 109) 1,2,4-Trichlorobenzene | 13.781 | 180 | 2236486 | 128.122 ug/L | 98 |
| 110) Naphthalene | 14.075 | 128 | 4964902 | 128.268 ug/L | 100 |
| 111) 1,2,3-Trichlorobenzene | 14.251 | 180 | 1878399 | 127.555 ug/L | 99 |

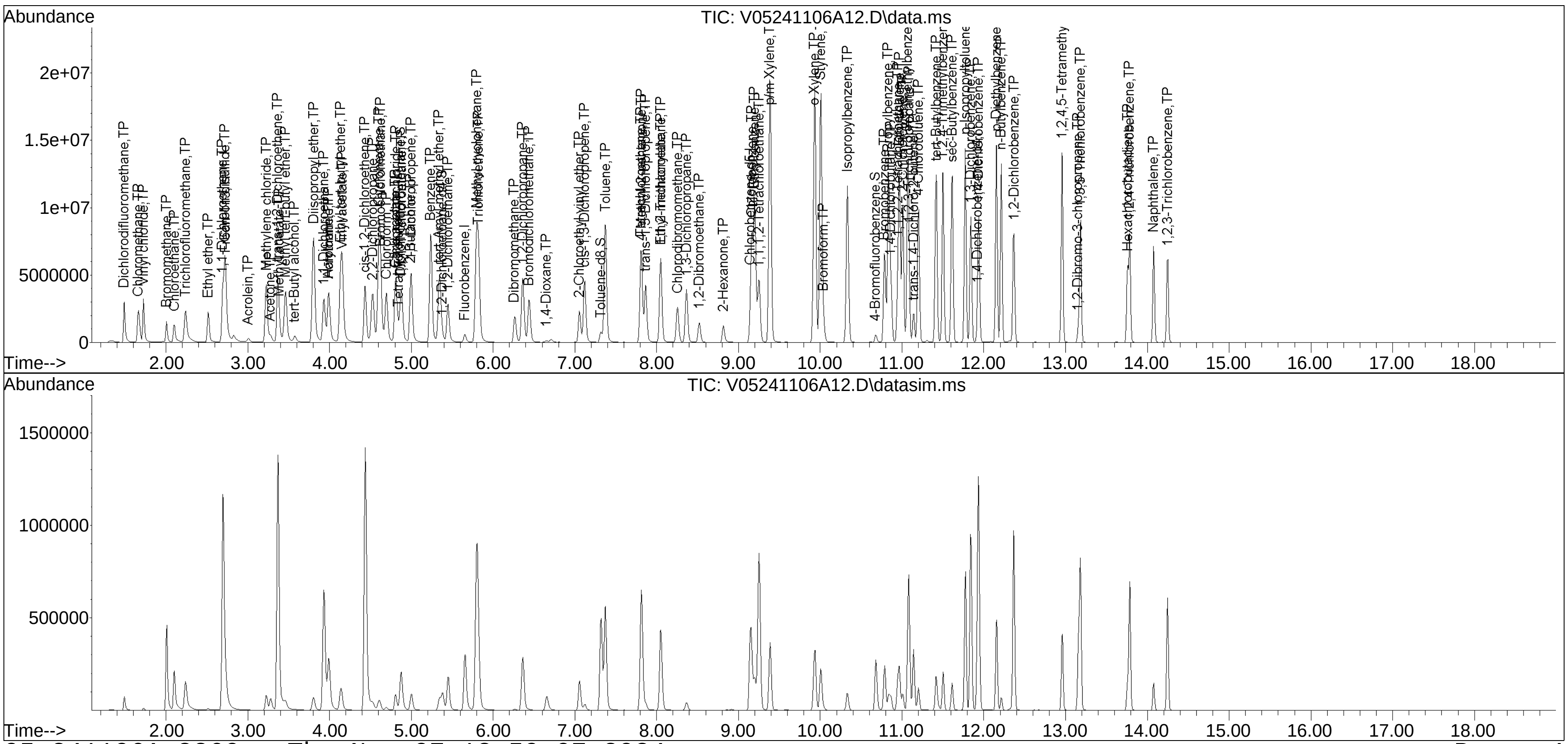
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A12.D
Acq On    :  6 Nov 2024   8:14 am
Operator  : VOA105:PID
Sample    : I8260STD120PPB
Misc      : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 12   Sample Multiplier: 1

Quant Time: Nov 06 11:37:32 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

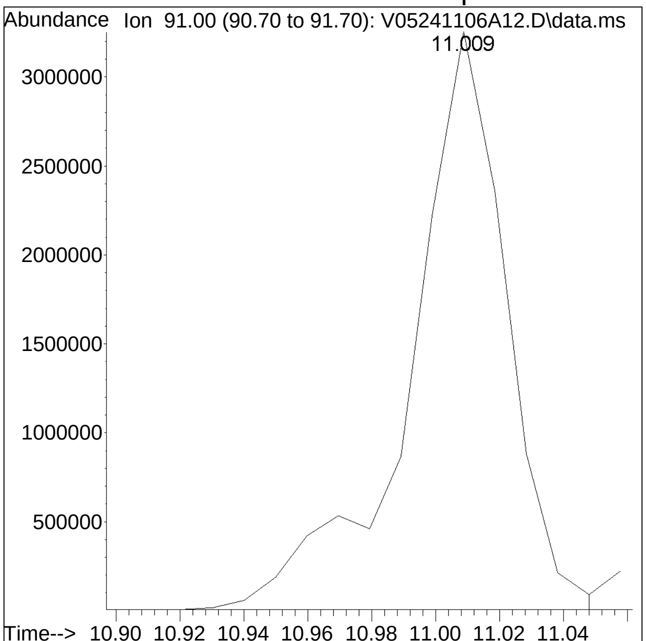
Sub List     : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

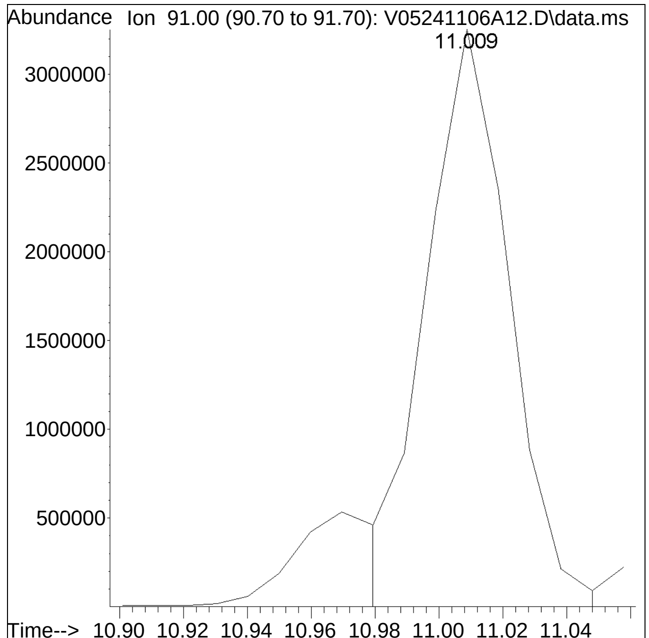


Manual Integration Report

```
Data Path    : K:\VOA105\2024\241106AICALQMethod     : V105_241106A_8260.m
Data File    : V05241106A12.D          Operator     : VOA105:PID
Date Inj'd   : 11/6/2024  8:14 am      Instrument   : VOA105
Sample       : I8260STD120PPB          Quant Date   : 11/6/2024 11:37 am
```

Compound #89: 2-Chlorotoluene



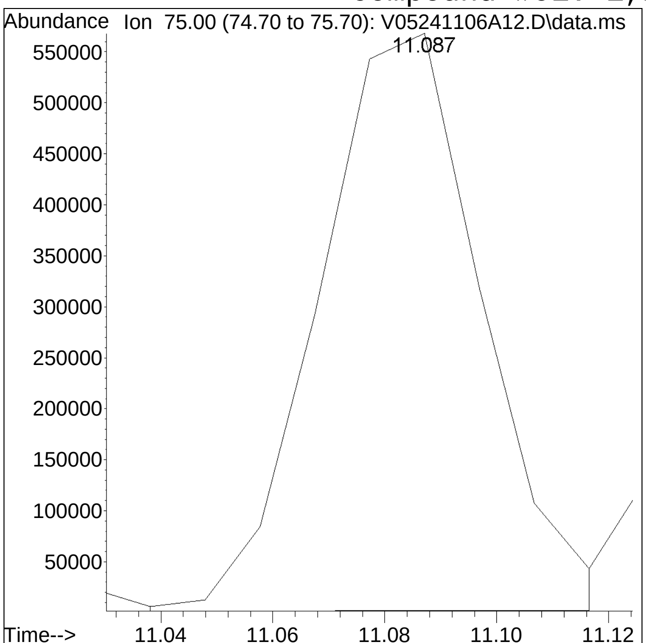

Original Peak Response = 6755207        Manual Peak Response = 5812846 M6

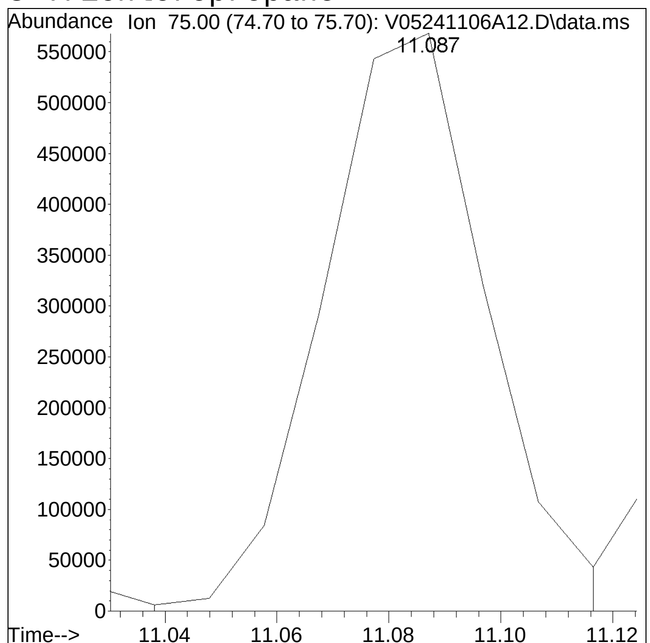
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

```
Data Path   : K:\VOA105\2024\241106AICALQMethod     : V105_241106A_8260.m
Data File   : V05241106A12.D            Operator    : VOA105:PID
Date Inj'd  : 11/6/2024  8:14 am        Instrument  : VOA105
Sample      : I8260STD120PPB            Quant Date  : 11/6/2024 11:37 am
```

Compound #91: 1,2,3-Trichloropropane




Original Peak Response = 1148233     Manual Peak Response = 1157428 M1

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

Quantitation Report (QT Reviewed)

```
Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A13.D
Acq On    :  6 Nov 2024   8:40 am
Operator  : VOA105:PID
Sample    : I8260STD200PPB
Misc      : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 13   Sample Multiplier: 1

Quant Time: Nov 06 11:37:40 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List     : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

        Compound                    R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) Fluorobenzene                  5.655   96    619244    10.000 ug/L     0.00
   Standard Area 1 = 541185                 Recovery   =  114.42%
59) Chlorobenzene-d5               9.147  117    480862    10.000 ug/L     0.00
   Standard Area 1 = 409349                 Recovery   =  117.47%
79) 1,4-Dichlorobenzene-d4        11.920  152    240794    10.000 ug/L     0.00
   Standard Area 1 = 216300                 Recovery   =  111.32%

 System Monitoring Compounds
36) Dibromofluoromethane           4.872  113    153495     9.620 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   96.20%
43) 1,2-Dichloroethane-d4          5.381   65    206262     9.806 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   98.06%
60) Toluene-d8                     7.318   98    605327    10.043 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =  100.43%
83) 4-Bromofluorobenzene          10.676   95    223779    10.216 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =  102.16%

 Target Compounds                                                     Qvalue
 2) Dichlorodifluoromethane        1.488   85   3970334    194.673 ug/L #    96
 3) Chloromethane                  1.664   50   5920313    209.494 ug/L      97
 4) Vinyl chloride                 1.723   62   4898133    203.981 ug/L      92
 5) Bromomethane                   2.007   94   1591469    298.711 ug/L      98
 6) Chloroethane                   2.095   64   2115479    180.920 ug/L      90
 7) Trichlorofluoromethane         2.241  101   4639550    195.358 ug/L     100
 8) Ethyl ether                    2.515   74   1049038    197.436 ug/L #     1
10) 1,1-Dichloroethene             2.701   96   2342779    199.405 ug/L #    50
11) Carbon disulfide               2.721   76   7844219    205.748 ug/L      99
12) Freon-113                      2.730  101   2532963    197.981 ug/L #    67
14) Acrolein                       3.004   56    416901    179.117 ug/L      99
15) Methylene chloride             3.229   84   2801275    185.121 ug/L #    18
17) Acetone                        3.278   43    774657    180.875 ug/L      95
18) trans-1,2-Dichloroethene       3.366   96   2848964    196.640 ug/L #    66
19) Methyl acetate                 3.386   43   1981116    190.349 ug/L #    72
20) Methyl tert-butyl ether        3.464   73   6190712    199.227 ug/L #    70
21) tert-Butyl alcohol             3.572   59    959788    978.729 ug/L      86
22) Diisopropyl ether              3.806   45  16178945    192.118 ug/L #    82
23) 1,1-Dichloroethane             3.934   63   7077949    192.150 ug/L      92
24) Halothane                      3.992  117   2307463    199.933 ug/L     100
25) Acrylonitrile                  3.992   53   1093402    189.705 ug/L #    83
```

Quantitation Report    (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A13.D
Acq On    :  6 Nov 2024   8:40 am
Operator  : VOA105:PID
Sample    : I8260STD200PPB
Misc      : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 13   Sample Multiplier: 1

Quant Time: Nov 06 11:37:40 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List     : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 26) Ethyl tert-butyl ether | 4.139 | 59 | 11938463 | 200.145 ug/L # | 70 |
| 27) Vinyl acetate | 4.158 | 43 | 9334967M6 | 205.764 ug/L | |
| 28) cis-1,2-Dichloroethene | 4.432 | 96 | 3145817 | 195.775 ug/L # | 67 |
| 29) 2,2-Dichloropropane | 4.530 | 77 | 4592658 | 197.890 ug/L # | 77 |
| 30) Bromochloromethane | 4.628 | 128 | 1258349 | 179.735 ug/L # | 31 |
| 31) Cyclohexane | 4.608 | 56 | 9323591 | 191.532 ug/L # | 47 |
| 32) Chloroform | 4.696 | 83 | 5137510 | 194.964 ug/L # | 91 |
| 33) Ethyl acetate | 4.804 | 43 | 3140581 | 208.014 ug/L # | 88 |
| 34) Carbon tetrachloride | 4.814 | 117 | 4797070 | 210.477 ug/L | 98 |
| 35) Tetrahydrofuran | 4.843 | 42 | 826572M6 | 171.888 ug/L | |
| 37) 1,1,1-Trichloroethane | 4.882 | 97 | 4924687 | 198.491 ug/L # | 90 |
| 39) 2-Butanone | 4.990 | 43 | 1316428 | 198.403 ug/L # | 48 |
| 40) 1,1-Dichloropropene | 5.000 | 75 | 4252478 | 200.463 ug/L | 97 |
| 41) Benzene | 5.234 | 78 | 12104630 | 202.725 ug/L # | 80 |
| 42) tert-Amyl methyl ether | 5.342 | 73 | 7003153 | 205.777 ug/L | 91 |
| 44) 1,2-Dichloroethane | 5.450 | 62 | 4489998 | 189.544 ug/L | 95 |
| 47) Methyl cyclohexane | 5.802 | 83 | 5384371 | 203.340 ug/L # | 18 |
| 48) Trichloroethene | 5.821 | 95 | 3136044 | 191.328 ug/L | 95 |
| 50) Dibromomethane | 6.261 | 93 | 1603549 | 199.516 ug/L | 96 |
| 51) 1,2-Dichloropropane | 6.359 | 63 | 4100615 | 200.750 ug/L # | 81 |
| 53) 2-Chloroethyl vinyl ether | 7.054 | 63 | 1939898 | 206.522 ug/L # | 78 |
| 54) Bromodichloromethane | 6.437 | 83 | 4057854 | 204.368 ug/L | 97 |
| 57) 1,4-Dioxane | 6.653 | 88 | 143494 | 1925.572 ug/L # | 46 |
| 58) cis-1,3-Dichloropropene | 7.122 | 75 | 4865155 | 214.994 ug/L # | 77 |
| 61) Toluene | 7.376 | 92 | 7700519 | 201.082 ug/L | 100 |
| 62) 4-Methyl-2-pentanone | 7.817 | 58 | 1058753 | 212.730 ug/L # | 88 |
| 63) Tetrachloroethene | 7.807 | 166 | 3436653 | 204.785 ug/L | 93 |
| 65) trans-1,3-Dichloropropene | 7.865 | 75 | 4077333 | 218.673 ug/L # | 74 |
| 67) Ethyl methacrylate | 8.051 | 69 | 2595881 | 212.028 ug/L | 90 |
| 68) 1,1,2-Trichloroethane | 8.051 | 83 | 1782774 | 201.388 ug/L | 98 |
| 69) Chlorodibromomethane | 8.257 | 129 | 3006054 | 215.375 ug/L | 98 |
| 70) 1,3-Dichloropropane | 8.364 | 76 | 3870320 | 198.751 ug/L | 100 |
| 71) 1,2-Dibromoethane | 8.521 | 107 | 2268922 | 207.320 ug/L | 100 |
| 72) 2-Hexanone | 8.814 | 43 | 1906450 | 209.921 ug/L | 97 |
| 73) Chlorobenzene | 9.167 | 112 | 8294051 | 199.997 ug/L | 94 |
| 74) Ethylbenzene | 9.206 | 91 | 15015518 | 196.854 ug/L | 94 |
| 75) 1,1,1,2-Tetrachloroethane | 9.255 | 131 | 3010296 | 206.490 ug/L | 98 |
| 76) p/m Xylene | 9.392 | 106 | 11333738 | 391.998 ug/L | 77 |
| 77) o Xylene | 9.941 | 106 | 10892949 | 393.819 ug/L | 77 |
| 78) Styrene | 10.009 | 104 | 17334855 | 387.903 ug/L | 93 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A13.D
Acq On : 6 Nov 2024 8:40 am
Operator : VOA105:PID
Sample : I8260STD200PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 06 11:37:40 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 80) | Bromoform | 10.039 | 173 | 1634156 | 229.147 | ug/L | | 97 |
| 82) | Isopropylbenzene | 10.333 | 105 | 15494479 | 206.795 | ug/L | | 96 |
| 84) | Bromobenzene | 10.793 | 156 | 3341755 | 206.472 | ug/L | | 100 |
| 85) | n-Propylbenzene | 10.842 | 91 | 17081974 | 198.578 | ug/L | | 93 |
| 86) | 1,4-Dichlorobutane | 10.862 | 55 | 5588264 | 198.631 | ug/L | # | 85 |
| 87) | 1,1,2,2-Tetrachloroethane | 10.950 | 83 | 2420470 | 205.760 | ug/L | | 99 |
| 88) | 4-Ethyltoluene | 10.969 | 105 | 14513434 | 204.832 | ug/L | | 96 |
| 89) | 2-Chlorotoluene | 11.009 | 91 | 10019433M6 | 204.317 | ug/L | | |
| 90) | 1,3,5-Trimethylbenzene | 11.077 | 105 | 12398308 | 200.961 | ug/L | | 94 |
| 91) | 1,2,3-Trichloropropane | 11.087 | 75 | 1920541 | 199.089 | ug/L | | 99 |
| 92) | trans-1,4-Dichloro-2-b... | 11.146 | 53 | 1111712M1 | 214.468 | ug/L | | |
| 93) | 4-Chlorotoluene | 11.205 | 91 | 10432939M6 | 203.546 | ug/L | | |
| 94) | tert-Butylbenzene | 11.420 | 119 | 11214427 | 206.671 | ug/L | | 94 |
| 97) | 1,2,4-Trimethylbenzene | 11.498 | 105 | 12134727 | 204.463 | ug/L | | 95 |
| 98) | sec-Butylbenzene | 11.616 | 105 | 15342344 | 198.081 | ug/L | | 97 |
| 99) | p-Isopropyltoluene | 11.773 | 119 | 13649225 | 202.095 | ug/L | | 97 |
| 100) | 1,3-Dichlorobenzene | 11.841 | 146 | 6424278 | 201.966 | ug/L | | 98 |
| 101) | 1,4-Dichlorobenzene | 11.939 | 146 | 6340966 | 199.526 | ug/L | | 98 |
| 102) | p-Diethylbenzene | 12.155 | 119 | 8154727 | 208.422 | ug/L | | 100 |
| 103) | n-Butylbenzene | 12.214 | 91 | 11215981 | 204.520 | ug/L | | 98 |
| 104) | 1,2-Dichlorobenzene | 12.370 | 146 | 5757117 | 200.738 | ug/L | | 98 |
| 105) | 1,2,4,5-Tetramethylben... | 12.958 | 119 | 11773662 | 207.262 | ug/L | | 96 |
| 106) | 1,2-Dibromo-3-chloropr... | 13.154 | 155 | 378207 | 224.135 | ug/L | | 97 |
| 107) | 1,3,5-Trichlorobenzene | 13.183 | 180 | 4293779 | 201.597 | ug/L | | 98 |
| 108) | Hexachlorobutadiene | 13.761 | 225 | 1639128 | 209.374 | ug/L | | 100 |
| 109) | 1,2,4-Trichlorobenzene | 13.791 | 180 | 3711512 | 204.934 | ug/L | | 98 |
| 110) | Naphthalene | 14.075 | 128 | 8129489 | 202.432 | ug/L | | 100 |
| 111) | 1,2,3-Trichlorobenzene | 14.251 | 180 | 3114733 | 203.862 | ug/L | | 99 |

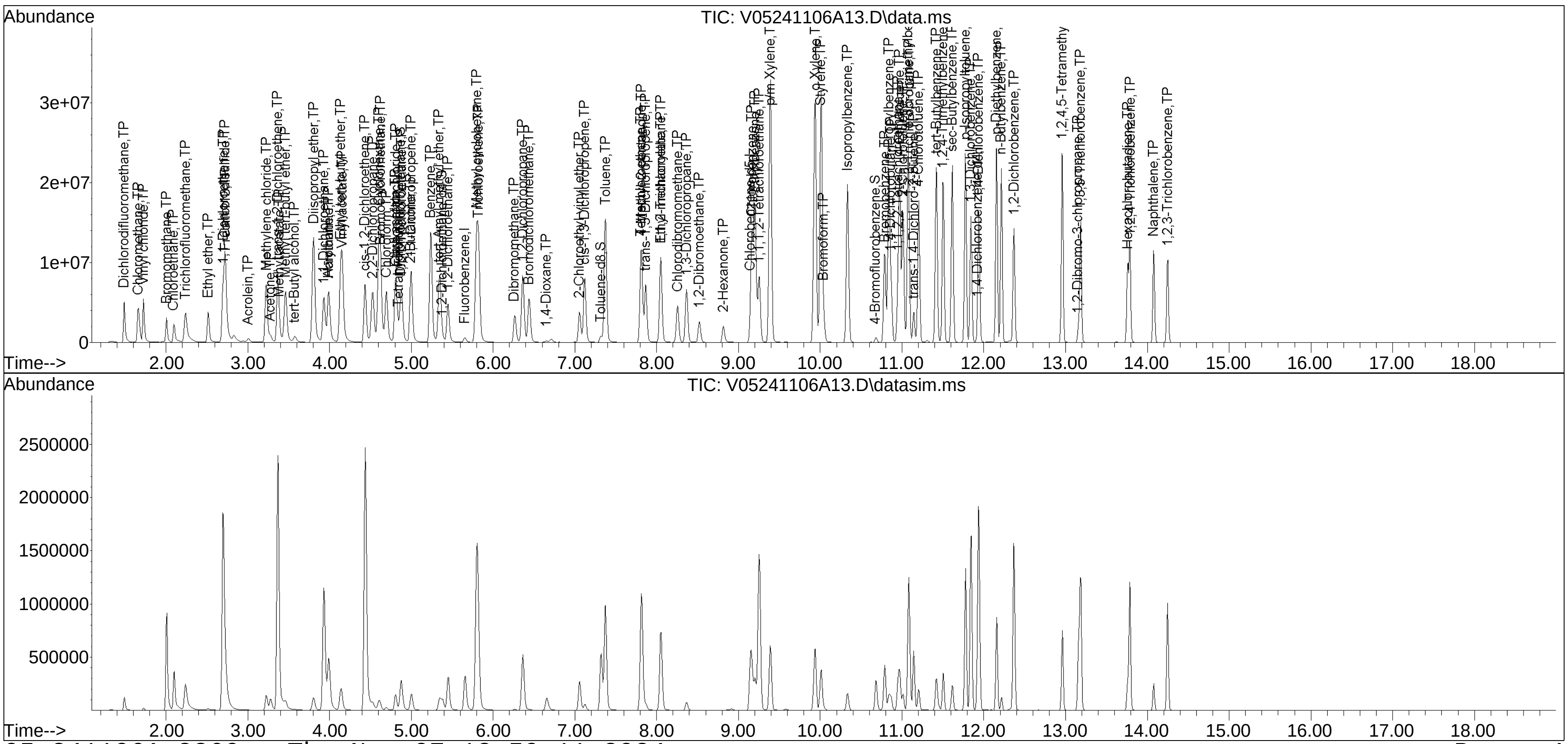
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A13.D
Acq On : 6 Nov 2024 8:40 am
Operator : VOA105:PID
Sample : I8260STD200PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 06 11:37:40 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:36:17 2024
Response via : Initial Calibration

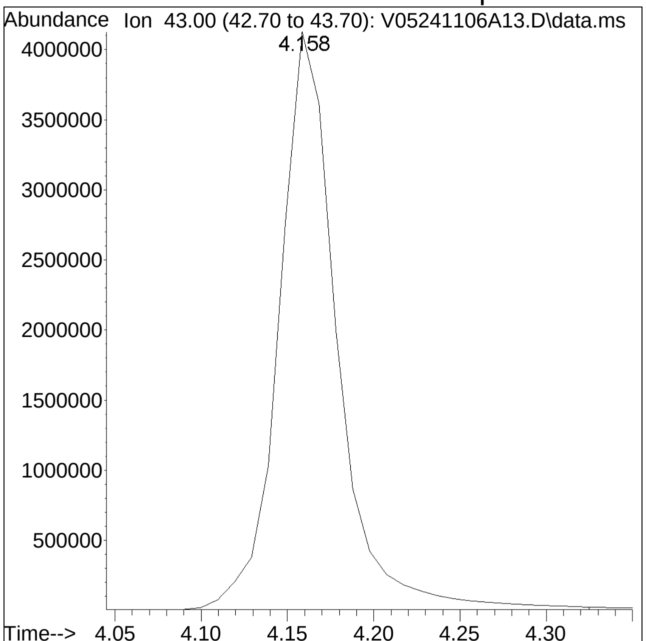
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

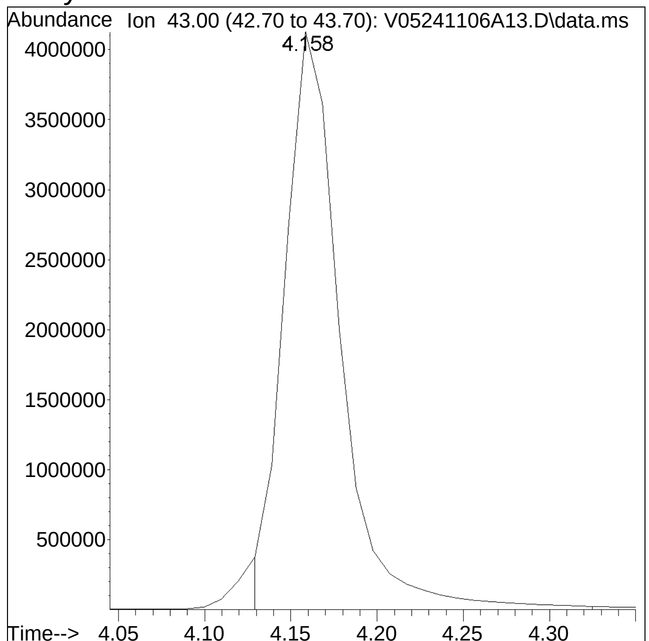


Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA105\2024\241106AICALQ | Method | : V105_241106A_8260.m |
| Data File | : V05241106A13.D | Operator | : VOA105:PID |
| Date Inj'd | : 11/6/2024 8:40 am | Instrument | : VOA105 |
| Sample | : I8260STD200PPB | Quant Date | : 11/6/2024 11:37 am |

Compound #27: Vinyl acetate




Original Peak Response = 9668672

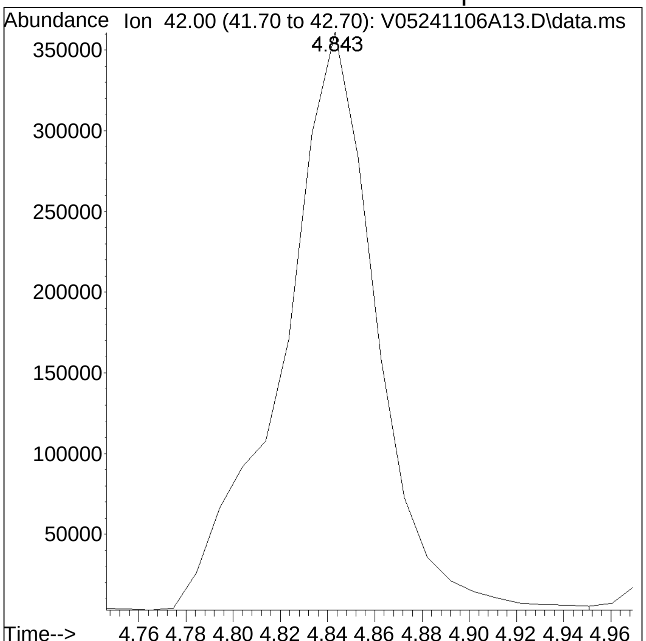
Manual Peak Response = 9334967 M6

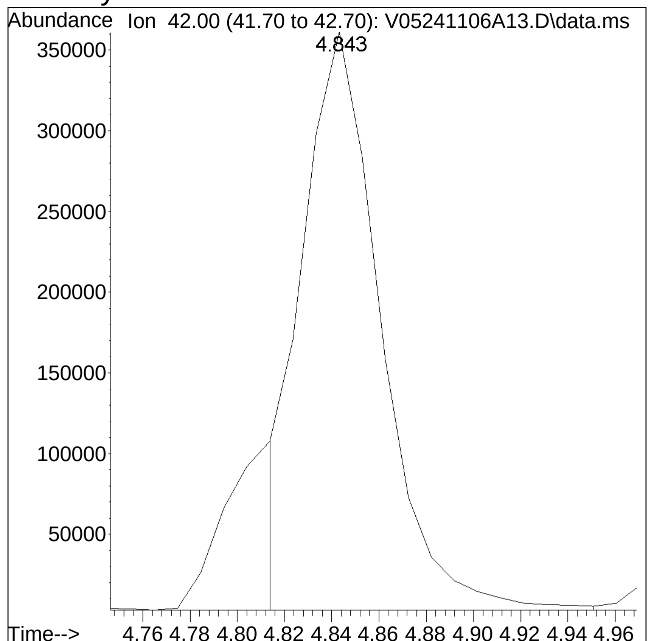
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

```
Data Path    : K:\VOA105\2024\241106AICALQMethod     : V105_241106A_8260.m
Data File    : V05241106A13.D             Operator    : VOA105:PID
Date Inj'd   : 11/6/2024  8:40 am         Instrument  : VOA105
Sample       : I8260STD200PPB             Quant Date  : 11/6/2024 11:37 am
```

Compound #35: Tetrahydrofuran



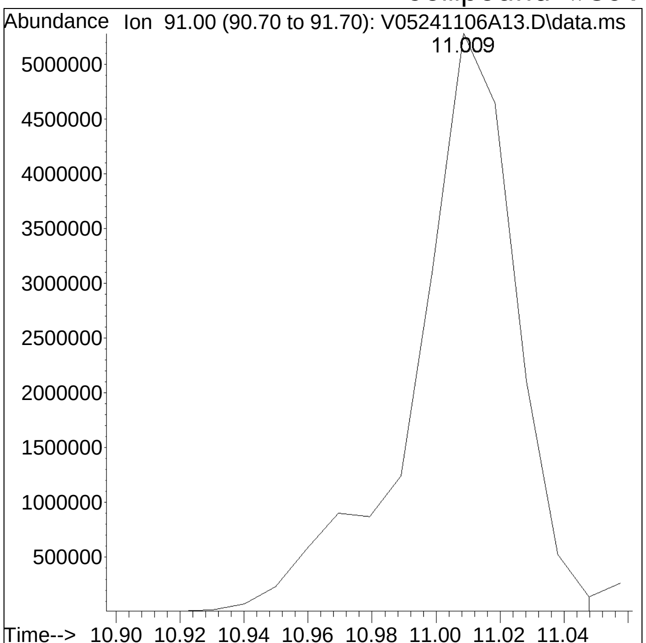

Original Peak Response = 992069        Manual Peak Response = 826572 M6

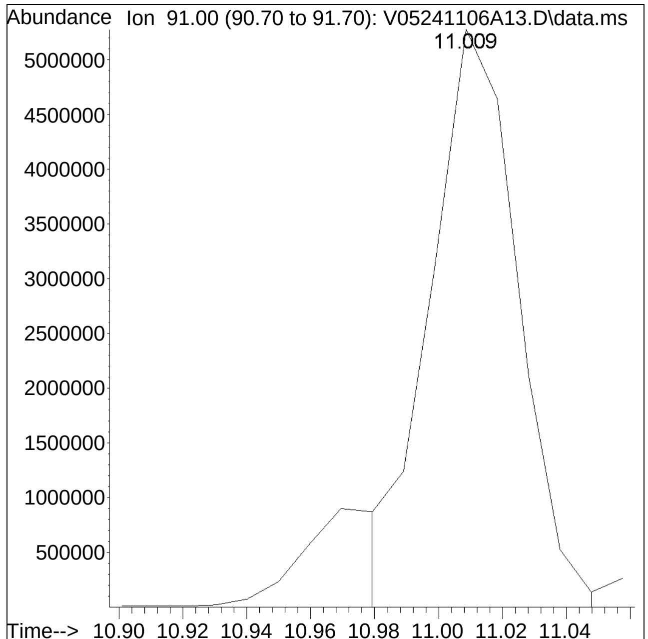
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Method : V105_241106A_8260.m
Data File : V05241106A13.D
Operator : VOA105:PID
Date Inj'd : 11/6/2024 8:40 am
Instrument : VOA105
Sample : I8260STD200PPB
Quant Date : 11/6/2024 11:37 am

Compound #89: 2-Chlorotoluene




Original Peak Response = 11530281    Manual Peak Response = 10019433 M6

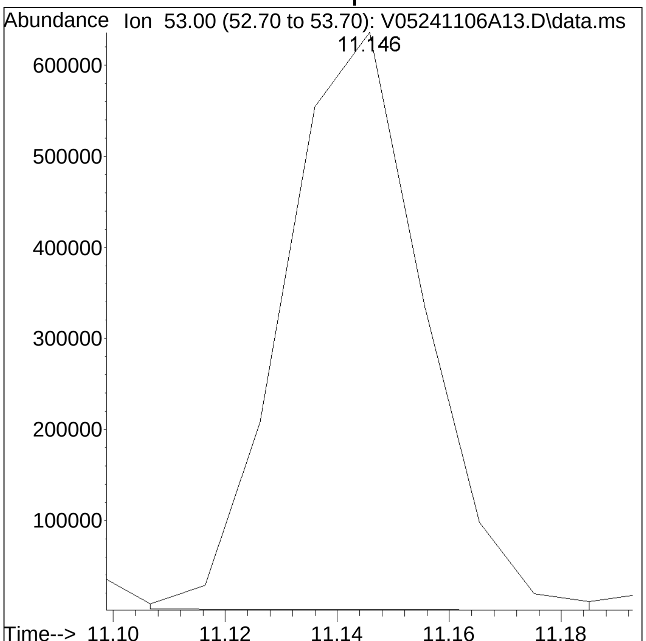
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

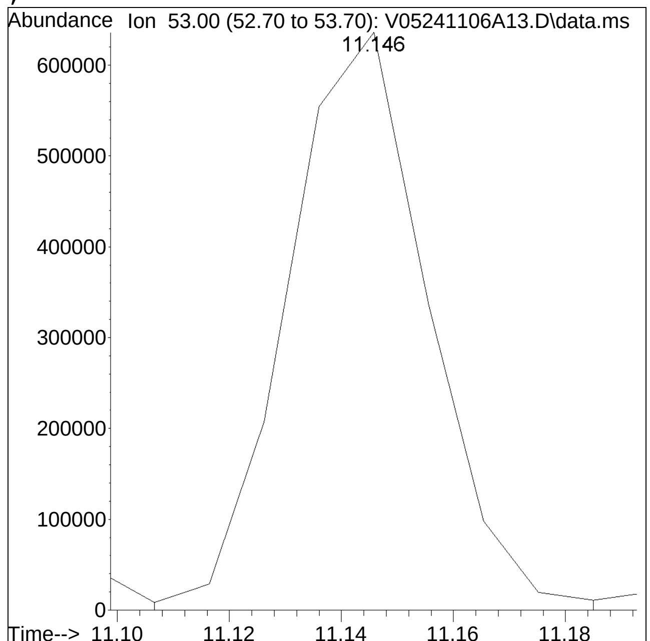
Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Data File : V05241106A13.D
Date Inj'd : 11/6/2024 8:40 am
Sample : I8260STD200PPB

Method : V105_241106A_8260.m
Operator : VOA105:PID
Instrument : VOA105
Quant Date : 11/6/2024 11:37 am

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



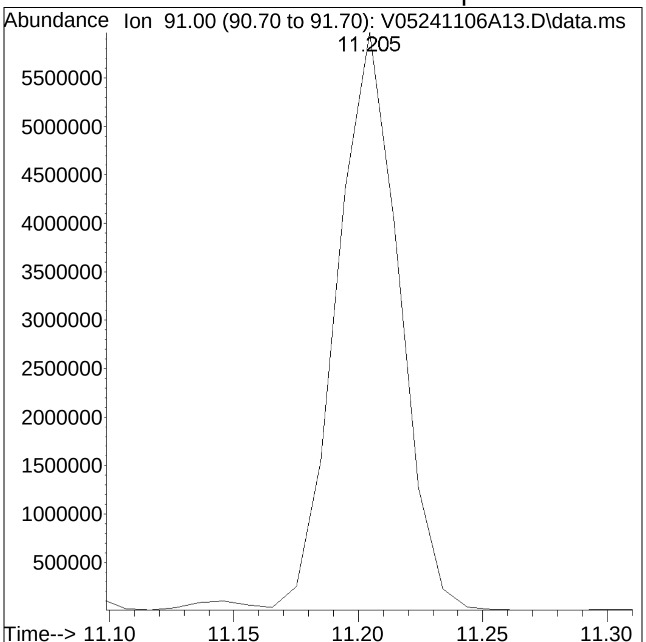

Original Peak Response = 1101659 Manual Peak Response = 1111712 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

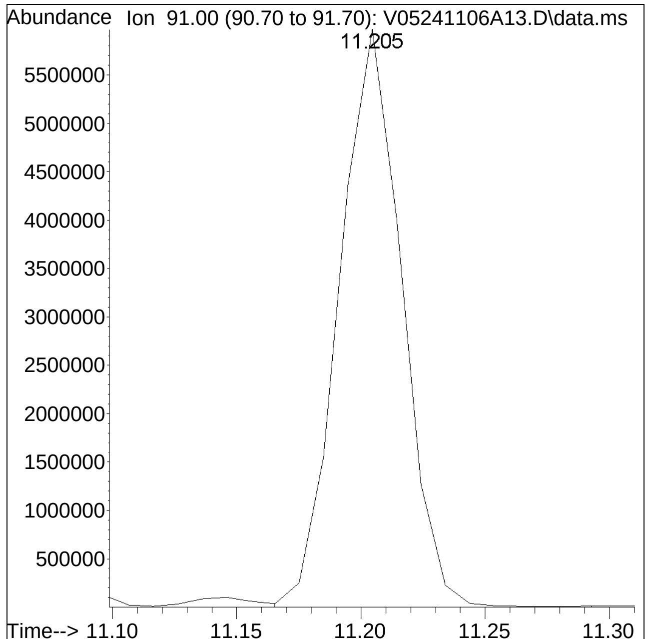
Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Data File : V05241106A13.D
Date Inj'd : 11/6/2024 8:40 am
Sample : I8260STD200PPB

Method : V105_241106A_8260.m
Operator : VOA105:PID
Instrument : VOA105
Quant Date : 11/6/2024 11:37 am

Compound #93: 4-Chlorotoluene




Original Peak Response = 10538180 Manual Peak Response = 10432939 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A18.D
Acq On : 6 Nov 2024 10:47 am
Operator : VOA105:PID
Sample : C8260STD10PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 06 11:42:59 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

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

| | | Compound | | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|---|
| 1 | I | Fluorobenzene | | 1.000 | 1.000 | 0.0 | 109 | 0.00 |
| 2 | TP | Dichlorodifluoromethane | | 0.329 | 0.273 | 17.0 | 87 | 0.00 |
| 3 | TP | Chloromethane | | 0.456 | 0.481 | -5.5 | 113 | 0.00 |
| 4 | TP | Vinyl chloride | | 0.388 | 0.398 | -2.6 | 109 | 0.00 |
| 5 | TP | Bromomethane | * | 10.000 | 13.080 | -30.8# | 161 | 0.00 |
| 6 | TP | Chloroethane | | 0.189 | 0.191 | -1.1 | 108 | 0.00 |
| 7 | TP | Trichlorofluoromethane | | 0.384 | 0.391 | -1.8 | 109 | 0.00 |
| 8 | TP | Ethyl ether | | 0.086 | 0.104 | -20.9# | 129 | 0.00 |
| 10 | TP | 1,1-Dichloroethene | | 0.190 | 0.181 | 4.7 | 104 | 0.01 |
| 11 | TP | Carbon disulfide | | 0.616 | 0.611 | 0.8 | 109 | 0.00 |
| 12 | TP | Freon-113 | | 0.207 | 0.214 | -3.4 | 109 | 0.00 |
| 14 | TP | Acrolein | | 0.038 | 0.049 | -28.9# | 144 | 0.00 |
| 15 | TP | Methylene chloride | | 0.244 | 0.231 | 5.3 | 103 | 0.00 |
| 17 | TP | Acetone | | 0.069 | 0.060 | 13.0 | 101 | 0.00 |
| 18 | TP | trans-1,2-Dichloroethene | | 0.234 | 0.242 | -3.4 | 107 | 0.00 |
| 19 | TP | Methyl acetate | | 0.168 | 0.150 | 10.7 | 97 | 0.00 |
| 20 | TP | Methyl tert-butyl ether | | 0.502 | 0.507 | -1.0 | 104 | 0.00 |
| 21 | TP | tert-Butyl alcohol | | 0.016 | 0.015 | 6.3 | 99 | 0.00 |
| 22 | TP | Diisopropyl ether | | 1.360 | 1.314 | 3.4 | 98 | 0.00 |
| 23 | TP | 1,1-Dichloroethane | | 0.595 | 0.586 | 1.5 | 103 | 0.00 |
| 24 | TP | Halothane | | 0.186 | 0.184 | 1.1 | 103 | 0.00 |
| 25 | TP | Acrylonitrile | | 0.093 | 0.090 | 3.2 | 102 | 0.00 |
| 26 | TP | Ethyl tert-butyl ether | | 0.963 | 0.949 | 1.5 | 101 | 0.00 |
| 27 | TP | Vinyl acetate | | 0.733 | 0.625 | 14.7 | 92 | 0.00 |
| 28 | TP | cis-1,2-Dichloroethene | | 0.259 | 0.259 | 0.0 | 103 | 0.00 |
| 29 | TP | 2,2-Dichloropropane | | 0.375 | 0.361 | 3.7 | 101 | 0.00 |
| 30 | TP | Bromochloromethane | | 0.113 | 0.119 | -5.3 | 103 | 0.00 |
| 31 | TP | Cyclohexane | | 0.786 | 0.746 | 5.1 | 98 | 0.00 |
| 32 | TP | Chloroform | | 0.426 | 0.425 | 0.2 | 104 | 0.00 |
| 33 | TP | Ethyl acetate | | 0.244 | 0.227 | 7.0 | 96 | 0.00 |
| 34 | TP | Carbon tetrachloride | | 0.368 | 0.365 | 0.8 | 102 | 0.00 |
| 35 | TP | Tetrahydrofuran | | 0.078 | 0.075 | 3.8 | 108 | 0.00 |
| 36 | S | Dibromofluoromethane | | 0.258 | 0.256 | 0.8 | 108 | 0.00 |
| 37 | TP | 1,1,1-Trichloroethane | | 0.401 | 0.400 | 0.2 | 104 | 0.00 |
| 39 | TP | 2-Butanone | | 0.107 | 0.104 | 2.8 | 102 | 0.00 |
| 40 | TP | 1,1-Dichloropropene | | 0.343 | 0.354 | -3.2 | 108 | 0.00 |
| 41 | TP | Benzene | | 0.964 | 0.956 | 0.8 | 102 | 0.01 |
| 42 | TP | tert-Amyl methyl ether | | 0.550 | 0.519 | 5.6 | 99 | 0.00 |
| 43 | S | 1,2-Dichloroethane-d4 | | 0.340 | 0.342 | -0.6 | 105 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A18.D
Acq On : 6 Nov 2024 10:47 am
Operator : VOA105:PID
Sample : C8260STD10PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 06 11:42:59 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 44 | TP | 1,2-Dichloroethane | 0.383 | 0.373 | 2.6 | 100 | 0.00 |
| 47 | TP | Methyl cyclohexane | 0.428 | 0.416 | 2.8 | 100 | 0.00 |
| 48 | TP | Trichloroethene | 0.265 | 0.252 | 4.9 | 105 | 0.00 |
| 50 | TP | Dibromomethane | 0.130 | 0.126 | 3.1 | 101 | 0.00 |
| 51 | TP | 1,2-Dichloropropane | 0.330 | 0.324 | 1.8 | 104 | 0.00 |
| 53 | TP | 2-Chloroethyl vinyl ether | 0.152 | 0.145 | 4.6 | 95 | 0.00 |
| 54 | TP | Bromodichloromethane | 0.321 | 0.302 | 5.9 | 99 | 0.01 |
| 57 | TP | 1,4-Dioxane | 0.00120 | 0.00104# | 13.3 | 94 | 0.00 |
| 58 | TP | cis-1,3-Dichloropropene | 0.365 | 0.363 | 0.5 | 103 | 0.00 |
| 59 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 109 | 0.00 |
| 60 | S | Toluene-d8 | 1.253 | 1.265 | -1.0 | 109 | 0.00 |
| 61 | TP | Toluene | 0.796 | 0.797 | -0.1 | 103 | 0.00 |
| 62 | TP | 4-Methyl-2-pentanone | 0.104 | 0.102 | 1.9 | 97 | 0.00 |
| 63 | TP | Tetrachloroethene | 0.349 | 0.367 | -5.2 | 108 | 0.00 |
| 65 | TP | trans-1,3-Dichloropropene | 0.388 | 0.397 | -2.3 | 102 | 0.00 |
| 67 | TP | Ethyl methacrylate | 0.255 | 0.294 | -15.3 | 114 | 0.00 |
| 68 | TP | 1,1,2-Trichloroethane | 0.184 | 0.185# | -0.5 | 101 | 0.00 |
| 69 | TP | Chlorodibromomethane | 0.290 | 0.283 | 2.4 | 99 | 0.00 |
| 70 | TP | 1,3-Dichloropropane | 0.405 | 0.406 | -0.2 | 102 | 0.00 |
| 71 | TP | 1,2-Dibromoethane | 0.228 | 0.229 | -0.4 | 103 | 0.00 |
| 72 | TP | 2-Hexanone | 0.189 | 0.185 | 2.1 | 98 | 0.00 |
| 73 | TP | Chlorobenzene | 0.862 | 0.874 | -1.4 | 105 | 0.00 |
| 74 | TP | Ethylbenzene | 1.586 | 1.603 | -1.1 | 104 | 0.00 |
| 75 | TP | 1,1,1,2-Tetrachloroethane | 0.303 | 0.299 | 1.3 | 101 | 0.00 |
| 76 | TP | p/m Xylene | 0.601 | 0.611 | -1.7 | 104 | 0.00 |
| 77 | TP | o Xylene | 0.575 | 0.586 | -1.9 | 105 | 0.00 |
| 78 | TP | Styrene | 0.929 | 0.960 | -3.3 | 106 | 0.00 |
| 79 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 107 | 0.00 |
| 80 | TP | Bromoform | 0.296 | 0.284 | 4.1 | 99 | 0.00 |
| 82 | TP | Isopropylbenzene | 3.112 | 3.154 | -1.3 | 104 | 0.00 |
| 83 | S | 4-Bromofluorobenzene | 0.910 | 0.920 | -1.1 | 107 | 0.00 |
| 84 | TP | Bromobenzene | 0.672 | 0.693 | -3.1 | 104 | 0.00 |
| 85 | TP | n-Propylbenzene | 3.572 | 3.670 | -2.7 | 104 | 0.00 |
| 86 | TP | 1,4-Dichlorobutane | 1.168 | 1.262 | -8.0 | 108 | 0.00 |
| 87 | TP | 1,1,2,2-Tetrachloroethane | 0.489 | 0.462 | 5.5 | 96 | 0.00 |
| 88 | TP | 4-Ethyltoluene | 2.943 | 3.165 | -7.5 | 109 | 0.00 |
| 89 | TP | 2-Chlorotoluene | 2.037 | 2.056 | -0.9 | 104 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A18.D
Acq On : 6 Nov 2024 10:47 am
Operator : VOA105:PID
Sample : C8260STD10PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 06 11:42:59 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

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

| | | Compound | | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|---|
| 90 | TP | 1,3,5-Trimethylbenzene | | 2.562 | 2.562 | 0.0 | 101 | 0.00 |
| 91 | TP | 1,2,3-Trichloropropane | | 0.401 | 0.389 | 3.0 | 99 | 0.00 |
| 92 | TP | trans-1,4-Dichloro-2-butene | | 0.215 | 0.217 | -0.9 | 102 | 0.00 |
| 93 | TP | 4-Chlorotoluene | | 2.129 | 2.144 | -0.7 | 103 | 0.00 |
| 94 | TP | tert-Butylbenzene | | 2.253 | 2.242 | 0.5 | 102 | 0.00 |
| 97 | TP | 1,2,4-Trimethylbenzene | | 2.465 | 2.550 | -3.4 | 104 | 0.00 |
| 98 | TP | sec-Butylbenzene | | 3.217 | 3.256 | -1.2 | 103 | 0.00 |
| 99 | TP | p-Isopropyltoluene | | 2.805 | 2.840 | -1.2 | 102 | 0.00 |
| 100 | TP | 1,3-Dichlorobenzene | | 1.321 | 1.349 | -2.1 | 104 | 0.00 |
| 101 | TP | 1,4-Dichlorobenzene | | 1.320 | 1.346 | -2.0 | 104 | 0.00 |
| 102 | TP | p-Diethylbenzene | | 1.625 | 1.623 | 0.1 | 102 | 0.00 |
| 103 | TP | n-Butylbenzene | | 2.277 | 2.399 | -5.4 | 108 | 0.00 |
| 104 | TP | 1,2-Dichlorobenzene | | 1.191 | 1.211 | -1.7 | 103 | 0.00 |
| 105 | TP | 1,2,4,5-Tetramethylbenzene | | 2.359 | 2.378 | -0.8 | 104 | 0.00 |
| 106 | TP | 1,2-Dibromo-3-chloropropane | * | 10.000 | 9.292 | 7.1 | 104 | 0.00 |
| 107 | TP | 1,3,5-Trichlorobenzene | | 0.885 | 0.831 | 6.1 | 95 | 0.00 |
| 108 | TP | Hexachlorobutadiene | | 0.325 | 0.315 | 3.1 | 102 | 0.00 |
| 109 | TP | 1,2,4-Trichlorobenzene | | 0.752 | 0.760 | -1.1 | 102 | 0.00 |
| 110 | TP | Naphthalene | | 1.668 | 1.655 | 0.8 | 100 | 0.00 |
| 111 | TP | 1,2,3-Trichlorobenzene | | 0.635 | 0.651 | -2.5 | 103 | 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\2024\241106AICAL\
Data File : V05241106A18.D
Acq On : 6 Nov 2024 10:47 am
Operator : VOA105:PID
Sample : C8260STD10PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 06 11:42:59 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) Fluorobenzene | 5.655 | 96 | 588764 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 541185 | | | Recovery | = 108.79% | |
| 59) Chlorobenzene-d5 | 9.147 | 117 | 445966 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 409349 | | | Recovery | = 108.95% | |
| 79) 1,4-Dichlorobenzene-d4 | 11.920 | 152 | 230656 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 216300 | | | Recovery | = 106.64% | |
| **System Monitoring Compounds** | | | | | |
| 36) Dibromofluoromethane | 4.872 | 113 | 150486 | 9.919 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 99.19% | |
| 43) 1,2-Dichloroethane-d4 | 5.381 | 65 | 201168 | 10.059 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 100.59% | |
| 60) Toluene-d8 | 7.318 | 98 | 564205 | 10.093 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 100.93% | |
| 83) 4-Bromofluorobenzene | 10.675 | 95 | 212314 | 10.119 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 101.19% | |

| Target Compounds | R.T. | QIon | Response | Conc Units | Qvalue |
|---|---|---|---|---|---|
| 2) Dichlorodifluoromethane | 1.488 | 85 | 160661 | 8.285 ug/L # | 95 |
| 3) Chloromethane | 1.664 | 50 | 283440 | 10.549 ug/L | 97 |
| 4) Vinyl chloride | 1.723 | 62 | 234417 | 10.268 ug/L | 92 |
| 5) Bromomethane | 2.007 | 94 | 60508 | 13.080 ug/L | 98 |
| 6) Chloroethane | 2.114 | 64 | 112723 | 10.139 ug/L | 89 |
| 7) Trichlorofluoromethane | 2.241 | 101 | 230413 | 10.204 ug/L | 99 |
| 8) Ethyl ether | 2.515 | 74 | 61029 | 12.081 ug/L # | 1 |
| 10) 1,1-Dichloroethene | 2.701 | 96 | 106768 | 9.558 ug/L # | 52 |
| 11) Carbon disulfide | 2.721 | 76 | 359751 | 9.924 ug/L | 100 |
| 12) Freon-113 | 2.730 | 101 | 126163 | 10.372 ug/L # | 78 |
| 14) Acrolein | 3.014 | 56 | 28775 | 13.003 ug/L | 96 |
| 15) Methylene chloride | 3.229 | 84 | 135972 | 9.451 ug/L # | 18 |
| 17) Acetone | 3.288 | 43 | 35231 | 8.652 ug/L # | 88 |
| 18) trans-1,2-Dichloroethene | 3.376 | 96 | 142649 | 10.356 ug/L # | 67 |
| 19) Methyl acetate | 3.395 | 43 | 88562 | 8.950 ug/L # | 75 |
| 20) Methyl tert-butyl ether | 3.464 | 73 | 298408 | 10.100 ug/L # | 65 |
| 21) tert-Butyl alcohol | 3.581 | 59 | 43206 | 46.340 ug/L | 96 |
| 22) Diisopropyl ether | 3.806 | 45 | 773501 | 9.660 ug/L # | 82 |
| 23) 1,1-Dichloroethane | 3.933 | 63 | 345222 | 9.857 ug/L | 92 |
| 24) Halothane | 3.992 | 117 | 108320 | 9.871 ug/L | 99 |
| 25) Acrylonitrile | 4.002 | 53 | 52900 | 9.653 ug/L # | 84 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A18.D
Acq On : 6 Nov 2024 10:47 am
Operator : VOA105:PID
Sample : C8260STD10PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 06 11:42:59 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 26) Ethyl tert-butyl ether | 4.139 | 59 | 558906 | 9.855 ug/L # | 75 |
| 27) Vinyl acetate | 4.168 | 43 | 368144M6 | 8.535 ug/L | |
| 28) cis-1,2-Dichloroethene | 4.442 | 96 | 152301 | 9.969 ug/L # | 70 |
| 29) 2,2-Dichloropropane | 4.530 | 77 | 212604 | 9.635 ug/L # | 73 |
| 30) Bromochloromethane | 4.628 | 128 | 70101 | 10.531 ug/L # | 34 |
| 31) Cyclohexane | 4.608 | 56 | 439445 | 9.495 ug/L # | 47 |
| 32) Chloroform | 4.696 | 83 | 250070 | 9.981 ug/L # | 90 |
| 33) Ethyl acetate | 4.814 | 43 | 133454 | 9.297 ug/L # | 88 |
| 34) Carbon tetrachloride | 4.814 | 117 | 214752 | 9.910 ug/L | 98 |
| 35) Tetrahydrofuran | 4.843 | 42 | 44374M6 | 9.705 ug/L | |
| 37) 1,1,1-Trichloroethane | 4.882 | 97 | 235422 | 9.980 ug/L # | 89 |
| 39) 2-Butanone | 5.000 | 43 | 60959 | 9.663 ug/L # | 50 |
| 40) 1,1-Dichloropropene | 5.000 | 75 | 208195 | 10.322 ug/L | 96 |
| 41) Benzene | 5.244 | 78 | 562724 | 9.912 ug/L # | 80 |
| 42) tert-Amyl methyl ether | 5.342 | 73 | 305309 | 9.435 ug/L | 87 |
| 44) 1,2-Dichloroethane | 5.449 | 62 | 219486 | 9.745 ug/L | 97 |
| 47) Methyl cyclohexane | 5.802 | 83 | 244840 | 9.725 ug/L # | 19 |
| 48) Trichloroethene | 5.831 | 95 | 148577 | 9.534 ug/L | 93 |
| 50) Dibromomethane | 6.271 | 93 | 74251 | 9.717 ug/L | 96 |
| 51) 1,2-Dichloropropane | 6.359 | 63 | 190900 | 9.830 ug/L # | 82 |
| 53) 2-Chloroethyl vinyl ether | 7.063 | 63 | 85451 | 9.568 ug/L # | 78 |
| 54) Bromodichloromethane | 6.447 | 83 | 178029 | 9.430 ug/L | 97 |
| 57) 1,4-Dioxane | 6.662 | 88 | 30708 | 433.409 ug/L # | 45 |
| 58) cis-1,3-Dichloropropene | 7.122 | 75 | 213799 | 9.937 ug/L # | 73 |
| 61) Toluene | 7.376 | 92 | 355214 | 10.001 ug/L | 99 |
| 62) 4-Methyl-2-pentanone | 7.816 | 58 | 45317 | 9.818 ug/L # | 74 |
| 63) Tetrachloroethene | 7.807 | 166 | 163626 | 10.513 ug/L | 92 |
| 65) trans-1,3-Dichloropropene | 7.865 | 75 | 177008 | 10.236 ug/L # | 69 |
| 67) Ethyl methacrylate | 8.051 | 69 | 130975 | 11.535 ug/L | 86 |
| 68) 1,1,2-Trichloroethane | 8.051 | 83 | 82700 | 10.073 ug/L | 98 |
| 69) Chlorodibromomethane | 8.257 | 129 | 126360 | 9.762 ug/L | 99 |
| 70) 1,3-Dichloropropane | 8.364 | 76 | 180916 | 10.017 ug/L | 100 |
| 71) 1,2-Dibromoethane | 8.521 | 107 | 102010 | 10.050 ug/L | 100 |
| 72) 2-Hexanone | 8.824 | 43 | 82348 | 9.777 ug/L | 94 |
| 73) Chlorobenzene | 9.167 | 112 | 389847 | 10.136 ug/L | 93 |
| 74) Ethylbenzene | 9.196 | 91 | 714824 | 10.105 ug/L | 95 |
| 75) 1,1,1,2-Tetrachloroethane | 9.245 | 131 | 133205 | 9.852 ug/L | 97 |
| 76) p/m Xylene | 9.382 | 106 | 544640 | 20.311 ug/L | 87 |
| 77) o Xylene | 9.931 | 106 | 522744 | 20.378 ug/L | 87 |
| 78) Styrene | 10.000 | 104 | 856388 | 20.663 ug/L | 90 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A18.D
Acq On : 6 Nov 2024 10:47 am
Operator : VOA105:PID
Sample : C8260STD10PPB
Misc : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 06 11:42:59 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241106AICAL\V05241106A09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 80) Bromoform | 10.039 | 173 | 65425 | 9.577 | ug/L | | 96 |
| 82) Isopropylbenzene | 10.333 | 105 | 727452 | 10.136 | ug/L | | 96 |
| 84) Bromobenzene | 10.793 | 156 | 159934 | 10.316 | ug/L | | 99 |
| 85) n-Propylbenzene | 10.832 | 91 | 846452 | 10.273 | ug/L | | 96 |
| 86) 1,4-Dichlorobutane | 10.862 | 55 | 290999 | 10.798 | ug/L | # | 86 |
| 87) 1,1,2,2-Tetrachloroethane | 10.950 | 83 | 106570 | 9.458 | ug/L | | 98 |
| 88) 4-Ethyltoluene | 10.969 | 105 | 730105 | 10.757 | ug/L | | 97 |
| 89) 2-Chlorotoluene | 11.009 | 91 | 474265M6 | 10.096 | ug/L | | |
| 90) 1,3,5-Trimethylbenzene | 11.067 | 105 | 590831 | 9.998 | ug/L | | 95 |
| 91) 1,2,3-Trichloropropane | 11.087 | 75 | 89634M4 | 9.700 | ug/L | | |
| 92) trans-1,4-Dichloro-2-b... | 11.146 | 53 | 50110 | 10.092 | ug/L | # | 86 |
| 93) 4-Chlorotoluene | 11.204 | 91 | 494429M6 | 10.070 | ug/L | | |
| 94) tert-Butylbenzene | 11.420 | 119 | 517031 | 9.947 | ug/L | | 96 |
| 97) 1,2,4-Trimethylbenzene | 11.498 | 105 | 588276 | 10.348 | ug/L | | 95 |
| 98) sec-Butylbenzene | 11.616 | 105 | 751103 | 10.123 | ug/L | | 99 |
| 99) p-Isopropyltoluene | 11.773 | 119 | 655178 | 10.127 | ug/L | | 96 |
| 100) 1,3-Dichlorobenzene | 11.841 | 146 | 311137 | 10.211 | ug/L | | 98 |
| 101) 1,4-Dichlorobenzene | 11.939 | 146 | 310554 | 10.201 | ug/L | | 98 |
| 102) p-Diethylbenzene | 12.155 | 119 | 374381 | 9.989 | ug/L | | 99 |
| 103) n-Butylbenzene | 12.213 | 91 | 553263 | 10.532 | ug/L | | 99 |
| 104) 1,2-Dichlorobenzene | 12.370 | 146 | 279416 | 10.171 | ug/L | | 97 |
| 105) 1,2,4,5-Tetramethylben... | 12.958 | 119 | 548409 | 10.078 | ug/L | | 97 |
| 106) 1,2-Dibromo-3-chloropr... | 13.164 | 155 | 16545 | 9.292 | ug/L | | 94 |
| 107) 1,3,5-Trichlorobenzene | 13.183 | 180 | 191751 | 9.399 | ug/L | | 98 |
| 108) Hexachlorobutadiene | 13.761 | 225 | 72687 | 9.693 | ug/L | | 99 |
| 109) 1,2,4-Trichlorobenzene | 13.791 | 180 | 175344 | 10.107 | ug/L | | 98 |
| 110) Naphthalene | 14.084 | 128 | 381728 | 9.923 | ug/L | | 100 |
| 111) 1,2,3-Trichlorobenzene | 14.251 | 180 | 150144 | 10.259 | ug/L | | 100 |

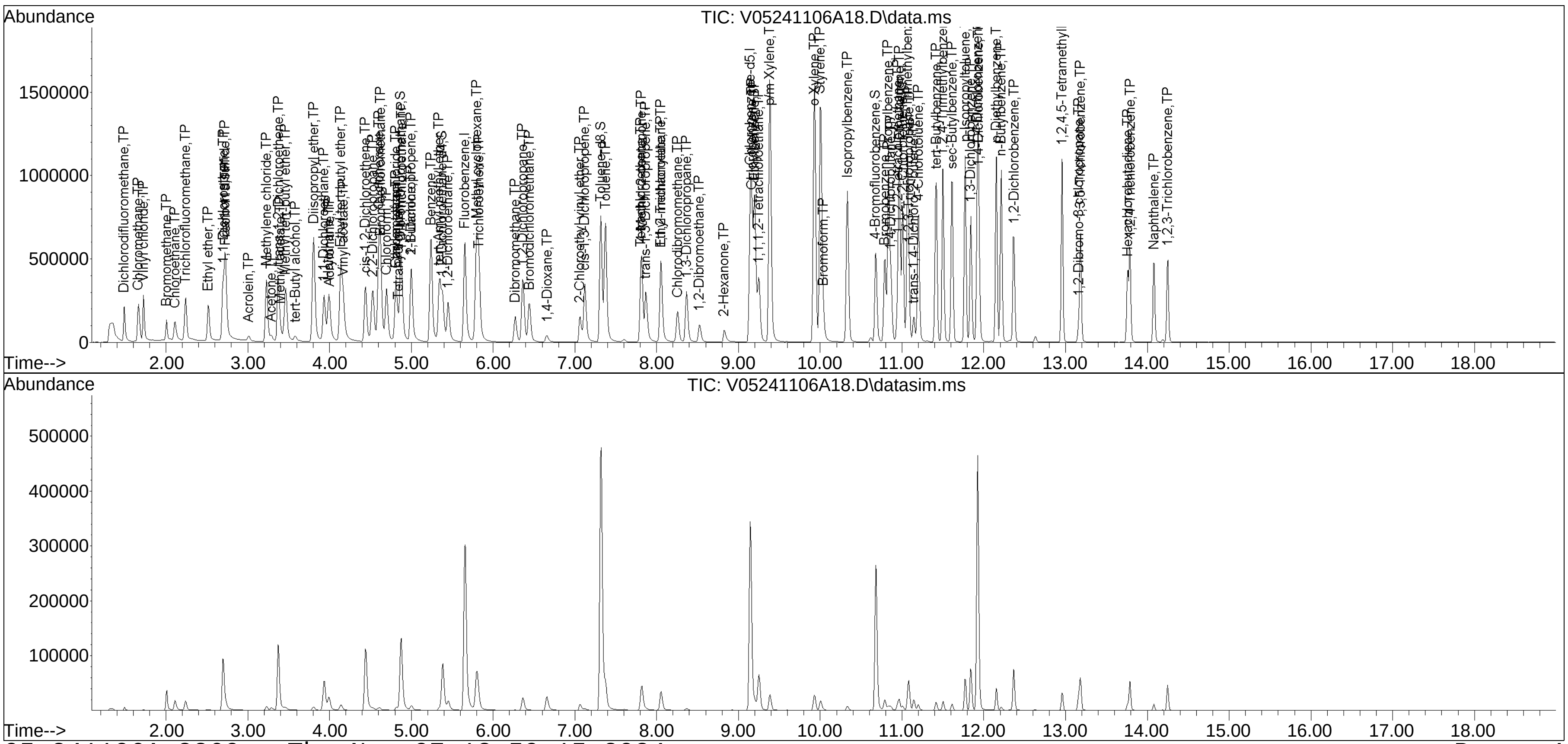
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : K:\VOA105\2024\241106AICAL\
Data File : V05241106A18.D
Acq On    :  6 Nov 2024  10:47 am
Operator  : VOA105:PID
Sample    : C8260STD10PPB
Misc      : WG1993889,ICAL (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 18   Sample Multiplier: 1

Quant Time: Nov 06 11:42:59 2024
Quant Method : K:\VOA105\2024\241106AICAL\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

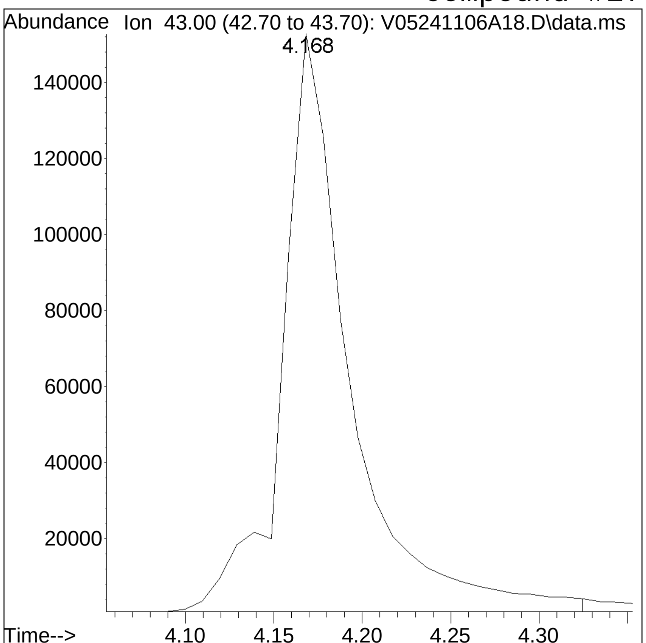
Sub List     : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

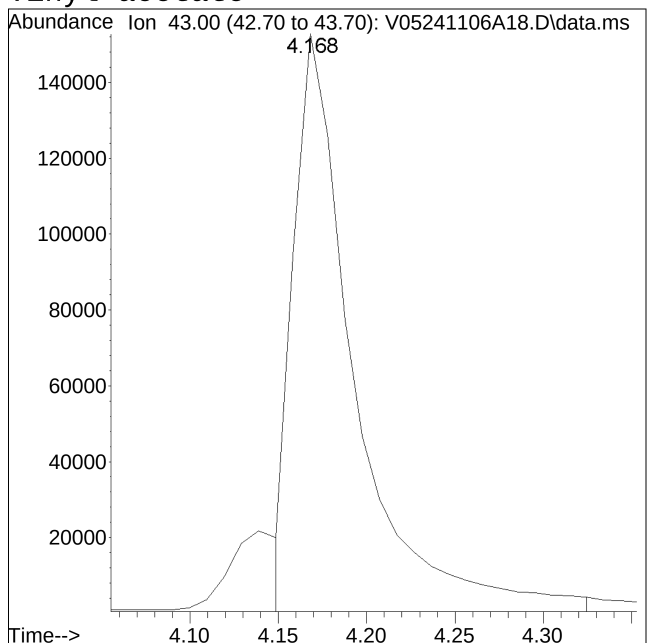


Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA105\2024\241106AICAL | QMethod | : V105_241106A_8260.m |
| Data File | : V05241106A18.D | Operator | : VOA105:PID |
| Date Inj'd | : 11/6/2024 10:47 am | Instrument | : VOA105 |
| Sample | : C8260STD10PPB | Quant Date | : 11/6/2024 11:41 am |

Compound #27: Vinyl acetate




Original Peak Response = 404691

Manual Peak Response = 368144 M6

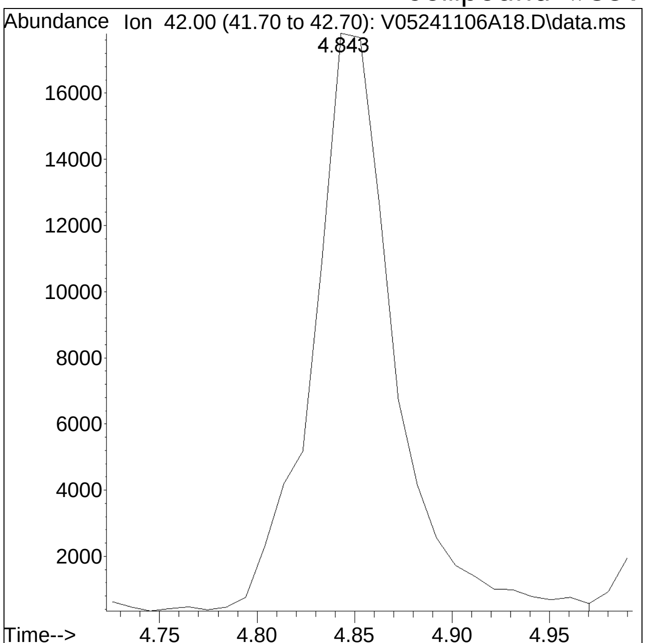
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

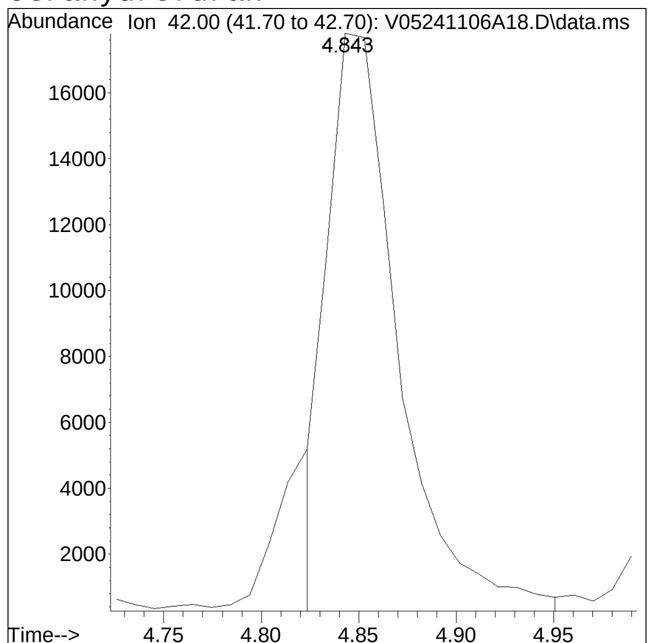
Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Data File : V05241106A18.D
Date Inj'd : 11/6/2024 10:47 am
Sample : C8260STD10PPB

Method : V105_241106A_8260.m
Operator : VOA105:PID
Instrument : VOA105
Quant Date : 11/6/2024 11:41 am

Compound #35: Tetrahydrofuran




Original Peak Response = 50875

Manual Peak Response = 44374 M6

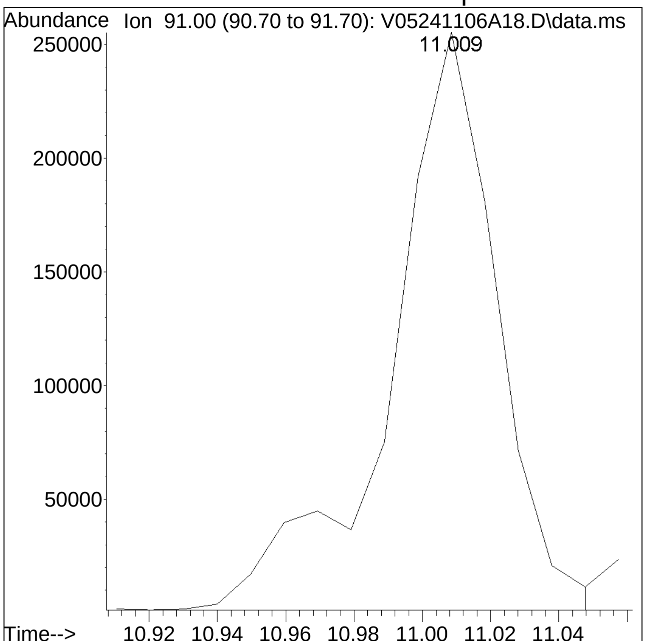
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

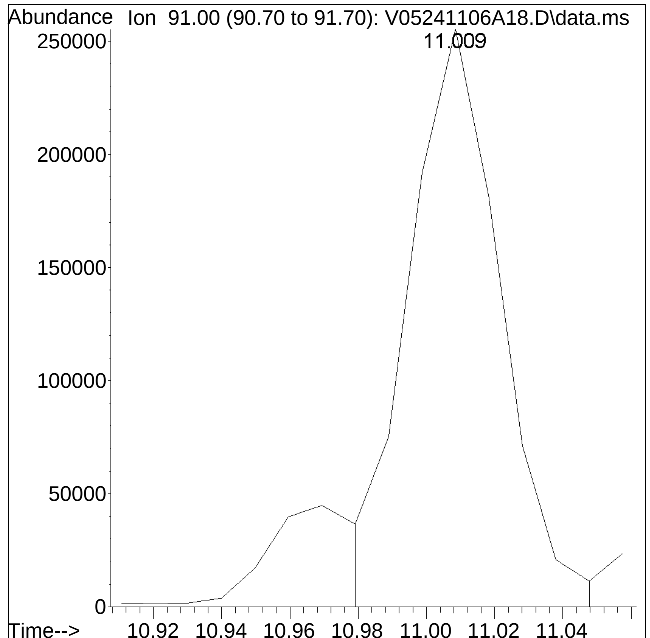
Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Data File : V05241106A18.D
Date Inj'd : 11/6/2024 10:47 am
Sample : C8260STD10PPB

Method : V105_241106A_8260.m
Operator : VOA105:PID
Instrument : VOA105
Quant Date : 11/6/2024 11:41 am

Compound #89: 2-Chlorotoluene




Original Peak Response = 548944

Manual Peak Response = 474265 M6

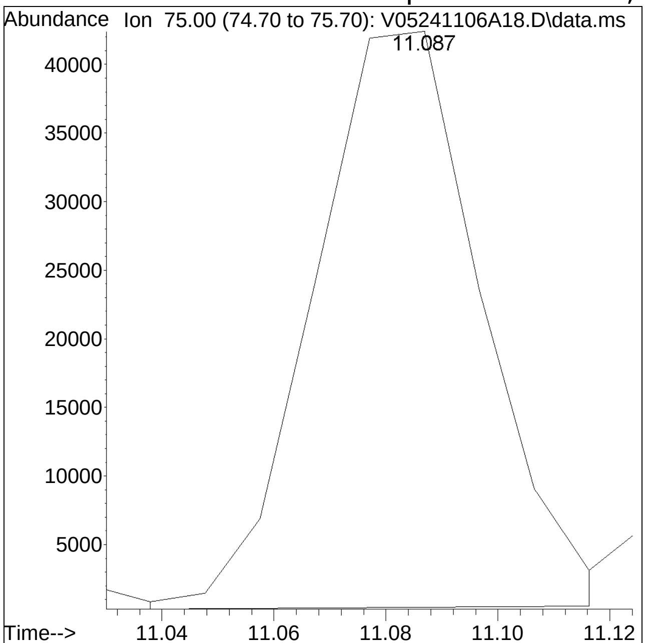
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

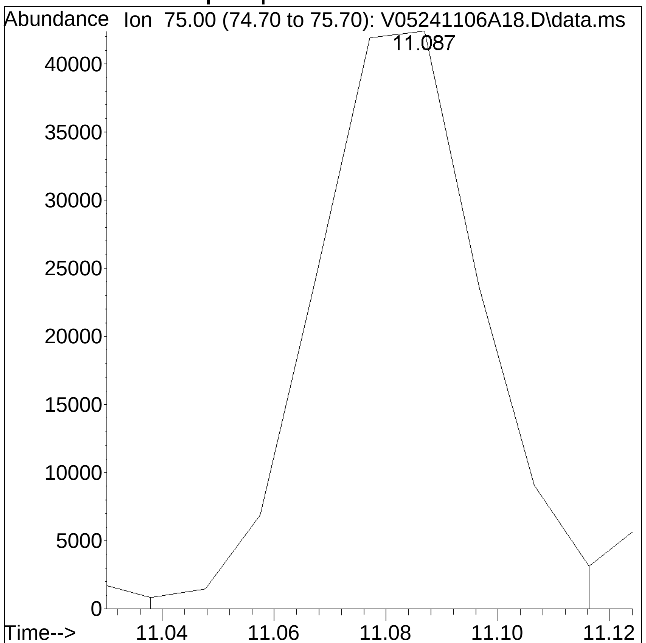
Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Data File : V05241106A18.D
Date Inj'd : 11/6/2024 10:47 am
Sample : C8260STD10PPB

Method : V105_241106A_8260.m
Operator : VOA105:PID
Instrument : VOA105
Quant Date : 11/6/2024 11:41 am

Compound #91: 1,2,3-Trichloropropane




Original Peak Response = 87692

Manual Peak Response = 89634 M4

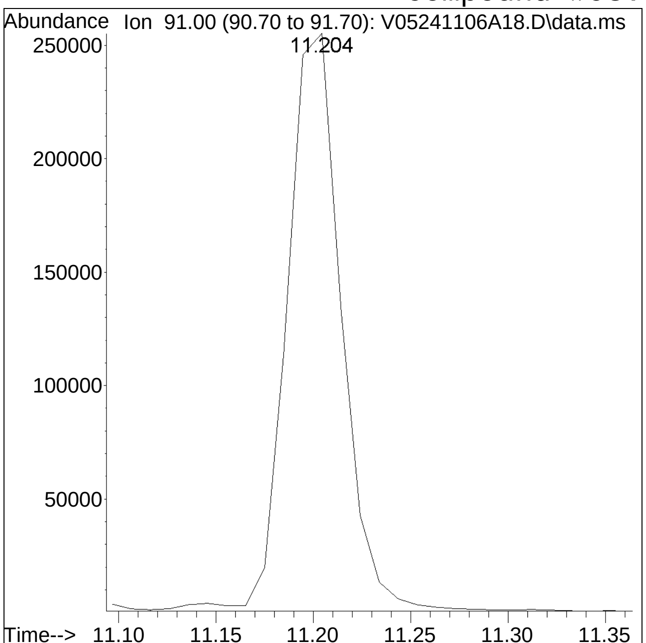
M4 = Poor automated baseline construction.

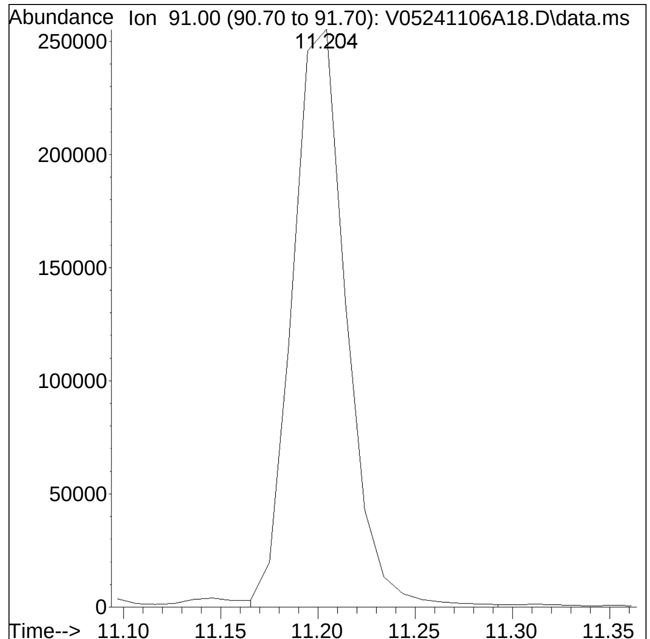
Manual Integration Report

Data Path : K:\VOA105\2024\241106AICALQ
Data File : V05241106A18.D
Date Inj'd : 11/6/2024 10:47 am
Sample : C8260STD10PPB

Method : V105_241106A_8260.m
Operator : VOA105:PID
Instrument : VOA105
Quant Date : 11/6/2024 11:41 am

Compound #93: 4-Chlorotoluene




Original Peak Response = 498143

Manual Peak Response = 494429 M6

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

Evaluate Relative Error Report VOA105

Method Path : K:\VOA105\2024\241106AICAL\
Method File : V105_241106A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Nov 06 12:18:50 2024

| | COMPOUND | CalFit | Units | TrueMid | MidConc | %RE | TrueLow | LowConc | %RE |
|---|---|---|---|---|---|---|---|---|---|
| 5 | TP Bromomethane | Q | ug/L | 10.0 | 9.019 | -9.8 | 0.50 | 0.626 | 25.2 |
| 106 | TP 1,2-Dibromo-3-chloropropane | L | ug/L | 10.0 | 9.506 | -4.9 | 0.50 | 0.594 | 18.8 |

Calibration Correlation Report

| | COMPOUND | CalFit | CoefOfDet | QuadTerm | LinTerm | Constant |
|---|---|---|---|---|---|---|
| 5 | TP Bromomethane | Quadratic | 0.999018 | 0.002682 | 0.0765696 | -0.00197013 |
| 106 | TP 1,2-Dibromo-3-chloropropane | Linear | 0.999284 | 0.000000 | 0.0800074 | -0.00261414 |

Response Factor Report VOA 101

Method Path : K:\VOA101\2024\241206NICAL\
Method File : V101_241206N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Dec 09 07:45:49 2024
Response Via : Initial Calibration

Calibration Files
L11 =V01241206N03.D L1 =V01241206N05.D L2 =V01241206N07.D L3 =V01241206N09.D L4 =V01241206N10.D
L6 =V01241206N11.D L8 =V01241206N12.D L10 =V01241206N13.D

| | | Compound | | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Fluorobenzene | ----------------ISTD-------------------- | | | | | | | | | | |
| 2) | TP | Dichlorodifluo... | | 0.241 | 0.318 | 0.323 | 0.328 | 0.318 | 0.326 | 0.316 | 0.310 | | 9.87 |
| 3) | TP | Chloromethane | | 0.272 | 0.329 | 0.324 | 0.328 | 0.325 | 0.328 | 0.322 | 0.318 | | 6.41 |
| 4) | TP | Vinyl chloride | 0.291 | 0.266 | 0.351 | 0.353 | 0.359 | 0.351 | 0.358 | 0.349 | 0.335 | | 10.63 |
| 5) | TP | Bromomethane | | 0.124 | 0.154 | 0.160 | 0.169 | 0.183 | 0.191 | 0.194 | 0.168 | | 14.54 |
| 6) | TP | Chloroethane | | 0.175 | 0.215 | 0.225 | 0.228 | 0.222 | 0.213 | 0.190 | 0.210 | | 9.49 |
| 7) | TP | Trichlorofluor... | | 0.315 | 0.454 | 0.462 | 0.470 | 0.455 | 0.457 | 0.434 | 0.435 | | 12.46 |
| 8) | TP | Ethyl ether | | 0.115 | 0.117 | 0.117 | 0.117 | 0.117 | 0.116 | 0.113 | 0.116 | | 1.38 |
| 10) | TP | 1,1-Dichloroet... | | 0.210 | 0.259 | 0.259 | 0.260 | 0.257 | 0.258 | 0.250 | 0.251 | | 7.22 |
| 11) | TP | Carbon disulfide | | 0.667 | 0.771 | 0.758 | 0.788 | 0.799 | 0.805 | 0.787 | 0.768 | | 6.15 |
| 12) | TP | Freon-113 | | 0.197 | 0.270 | 0.279 | 0.285 | 0.278 | 0.280 | 0.267 | 0.265 | | 11.53 |
| 13) | TP | Iodomethane | | | 0.263 | 0.326 | 0.363 | 0.379 | 0.375 | 0.363 | 0.345 | | 12.80 |
| 14) | TP | Acrolein | | | 0.031 | 0.028 | 0.028 | 0.030 | 0.031 | 0.031 | 0.030 | | 3.88 |
| 15) | TP | Methylene chlo... | | 0.259 | 0.242 | 0.239 | 0.237 | 0.241 | 0.241 | 0.241 | 0.243 | | 2.99 |
| 17) | TP | Acetone | | | 0.094 | 0.047 | 0.043 | 0.044 | 0.042 | 0.045 | *L | | 0.9983 |
| 18) | TP | trans-1,2-Dich... | | 0.207 | 0.250 | 0.246 | 0.249 | 0.253 | 0.257 | 0.256 | 0.245 | | 7.08 |
| 19) | TP | Methyl acetate | | | 0.134 | 0.107 | 0.109 | 0.112 | 0.113 | 0.106 | 0.114 | | 9.00 |
| 20) | TP | Methyl tert-bu... | | 0.493 | 0.517 | 0.521 | 0.525 | 0.534 | 0.543 | 0.538 | 0.524 | | 3.15 |
| 21) | TP | tert-Butyl alc... | | 0.010 | 0.013 | 0.013 | 0.013 | 0.013 | 0.014 | 0.014 | 0.013 | | 10.69 |
| 22) | TP | Diisopropyl ether | | 0.817 | 0.867 | 0.876 | 0.878 | 0.894 | 0.898 | 0.891 | 0.875 | | 3.16 |
| 23) | TP | 1,1-Dichloroet... | | 0.394 | 0.472 | 0.480 | 0.483 | 0.487 | 0.494 | 0.488 | 0.471 | | 7.34 |
| 24) | TP | Halothane | | 0.149 | 0.191 | 0.193 | 0.201 | 0.200 | 0.206 | 0.206 | 0.192 | | 10.34 |
| 25) | TP | Acrylonitrile | | 0.037 | 0.049 | 0.050 | 0.051 | 0.053 | 0.055 | 0.054 | 0.050 | | 11.87 |
| 26) | TP | Ethyl tert-but... | | 0.674 | 0.711 | 0.719 | 0.730 | 0.752 | 0.763 | 0.765 | 0.731 | | 4.48 |
| 27) | TP | Vinyl acetate | | 0.464 | 0.441 | 0.399 | 0.397 | 0.414 | 0.442 | 0.450 | 0.429 | | 6.10 |
| 28) | TP | cis-1,2-Dichlo... | | 0.230 | 0.267 | 0.272 | 0.274 | 0.277 | 0.279 | 0.278 | 0.268 | | 6.49 |
| 29) | TP | 2,2-Dichloropr... | | 0.318 | 0.394 | 0.376 | 0.407 | 0.406 | 0.411 | 0.402 | 0.388 | | 8.50 |
| 30) | TP | Bromochloromet... | | 0.108 | 0.125 | 0.124 | 0.127 | 0.130 | 0.130 | 0.127 | 0.124 | | 6.14 |
| 31) | TP | Cyclohexane | | 0.403 | 0.498 | 0.505 | 0.512 | 0.511 | 0.528 | 0.525 | 0.497 | | 8.64 |
| 32) | TP | Chloroform | | 0.387 | 0.434 | 0.439 | 0.447 | 0.451 | 0.452 | 0.447 | 0.437 | | 5.21 |
| 33) | TP | Ethyl acetate | | 0.119 | 0.164 | 0.160 | 0.160 | 0.164 | 0.168 | 0.166 | 0.157 | | 10.93 |

Response Factor Report VOA 101

Method Path : K:\VOA101\2024\241206NICAL\
Method File : V101_241206N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Dec 09 07:45:49 2024
Response Via : Initial Calibration

Calibration Files
L11 =V01241206N03.D L1 =V01241206N05.D L2 =V01241206N07.D L3 =V01241206N09.D L4 =V01241206N10.D
L6 =V01241206N11.D L8 =V01241206N12.D L10 =V01241206N13.D

| | | Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 34) | TP | Carbon tetrach... | 0.315 | 0.275 | 0.356 | 0.369 | 0.384 | 0.383 | 0.394 | 0.389 | 0.358 | 11.77 |
| 35) | TP | Tetrahydrofuran | | 0.058 | 0.050 | 0.046 | 0.044 | 0.042 | 0.042 | 0.042 | 0.046 | 12.97 |
| 36) | S | Dibromofluorom... | 0.263 | 0.266 | 0.268 | 0.267 | 0.268 | 0.273 | 0.277 | 0.279 | 0.270 | 2.14 |
| 37) | TP | 1,1,1-Trichlor... | | 0.323 | 0.403 | 0.407 | 0.415 | 0.412 | 0.419 | 0.415 | 0.399 | 8.53 |
| 39) | TP | 2-Butanone | | | 0.094 | 0.071 | 0.068 | 0.067 | 0.070 | 0.068 | 0.073 | 14.18 |
| 40) | TP | 1,1-Dichloropr... | | 0.269 | 0.341 | 0.350 | 0.357 | 0.352 | 0.359 | 0.355 | 0.341 | 9.38 |
| 41) | TP | Benzene | 0.907 | 0.814 | 0.968 | 0.978 | 0.994 | 0.999 | 1.007 | 1.004 | 0.959 | 6.98 |
| 42) | TP | tert-Amyl meth... | | 0.529 | 0.547 | 0.560 | 0.566 | 0.581 | 0.590 | 0.590 | 0.566 | 4.04 |
| 43) | S | 1,2-Dichloroet... | 0.291 | 0.287 | 0.290 | 0.290 | 0.290 | 0.294 | 0.304 | 0.309 | 0.295 | 2.70 |
| 44) | TP | 1,2-Dichloroet... | | 0.289 | 0.313 | 0.319 | 0.319 | 0.322 | 0.323 | 0.319 | 0.315 | 3.76 |
| 47) | TP | Methyl cyclohe... | | 0.329 | 0.442 | 0.450 | 0.457 | 0.464 | 0.477 | 0.479 | 0.442 | 11.68 |
| 48) | TP | Trichloroethene | 0.246 | 0.224 | 0.257 | 0.273 | 0.277 | 0.280 | 0.288 | 0.288 | 0.267 | 8.44 |
| 50) | TP | Dibromomethane | | 0.109 | 0.126 | 0.130 | 0.135 | 0.137 | 0.138 | 0.137 | 0.130 | 7.98 |
| 51) | TP | 1,2-Dichloropr... | | 0.221 | 0.257 | 0.260 | 0.264 | 0.265 | 0.266 | 0.264 | 0.257 | 6.30 |
| 53) | TP | 2-Chloroethyl ... | | 0.067 | 0.092 | 0.104 | 0.103 | 0.106 | 0.107 | 0.105 | 0.098 | 14.73 |
| 54) | TP | Bromodichlorom... | | 0.299 | 0.320 | 0.331 | 0.335 | 0.342 | 0.347 | 0.344 | 0.331 | 5.16 |
| 57) | TP | 1,4-Dioxane | | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001# | 7.98 |
| 58) | TP | cis-1,3-Dichlo... | | 0.311 | 0.369 | 0.378 | 0.390 | 0.400 | 0.403 | 0.402 | 0.379 | 8.65 |
| 59) | I | Chlorobenzene-d5 | ----------------ISTD-------------------- | | | | | | | | | |
| 60) | S | Toluene-d8 | 1.288 | 1.283 | 1.276 | 1.273 | 1.265 | 1.243 | 1.228 | 1.228 | 1.261 | 1.93 |
| 61) | TP | Toluene | | 0.691 | 0.808 | 0.826 | 0.822 | 0.834 | 0.823 | 0.826 | 0.804 | 6.28 |
| 62) | TP | 4-Methyl-2-pen... | | | 0.061 | 0.070 | 0.071 | 0.073 | 0.073 | 0.073 | 0.070 | 6.42 |
| 63) | TP | Tetrachloroethene | | 0.268 | 0.343 | 0.351 | 0.352 | 0.350 | 0.350 | 0.351 | 0.338 | 9.11 |
| 65) | TP | trans-1,3-Dich... | | 0.324 | 0.364 | 0.395 | 0.411 | 0.425 | 0.423 | 0.425 | 0.395 | 9.75 |
| 67) | TP | Ethyl methacry... | | 0.191 | 0.231 | 0.253 | 0.264 | 0.276 | 0.278 | 0.279 | 0.253 | 12.73 |
| 68) | TP | 1,1,2-Trichlor... | | 0.174 | 0.188 | 0.189 | 0.187 | 0.190 | 0.188 | 0.189 | 0.186# | 3.02 |
| 69) | TP | Chlorodibromom... | | 0.244 | 0.264 | 0.288 | 0.293 | 0.305 | 0.303 | 0.307 | 0.286 | 8.33 |
| 70) | TP | 1,3-Dichloropr... | | 0.344 | 0.368 | 0.386 | 0.383 | 0.385 | 0.378 | 0.376 | 0.374 | 3.93 |
| 71) | TP | 1,2-Dibromoethane | | 0.182 | 0.218 | 0.222 | 0.224 | 0.227 | 0.224 | 0.224 | 0.217 | 7.23 |
| 72) | TP | 2-Hexanone | | 0.099 | 0.111 | 0.124 | 0.128 | 0.130 | 0.132 | 0.130 | 0.122 | 10.34 |
| 73) | TP | Chlorobenzene | | 0.825 | 0.912 | 0.932 | 0.936 | 0.957 | 0.942 | 0.934 | 0.920 | 4.75 |

Response Factor Report VOA 101

Method Path : K:\VOA101\2024\241206NICAL\
Method File : V101_241206N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Dec 09 07:45:49 2024
Response Via : Initial Calibration

Calibration Files
L11 =V01241206N03.D L1 =V01241206N05.D L2 =V01241206N07.D L3 =V01241206N09.D L4 =V01241206N10.D
L6 =V01241206N11.D L8 =V01241206N12.D L10 =V01241206N13.D

| | | Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 74) | TP | Ethylbenzene | | 1.317 | 1.548 | 1.620 | 1.644 | 1.670 | 1.656 | 1.647 | 1.586 | 7.89 |
| 75) | TP | 1,1,1,2-Tetrac... | | 0.264 | 0.307 | 0.323 | 0.329 | 0.339 | 0.335 | 0.335 | 0.319 | 8.34 |
| 76) | TP | p/m Xylene | | 0.516 | 0.617 | 0.643 | 0.657 | 0.671 | 0.662 | 0.652 | 0.631 | 8.51 |
| 77) | TP | o Xylene | | 0.494 | 0.586 | 0.612 | 0.628 | 0.643 | 0.632 | 0.617 | 0.602 | 8.48 |
| 78) | TP | Styrene | | 0.801 | 0.925 | 1.003 | 1.056 | 1.092 | 1.063 | 1.029 | 0.996 | 10.15 |
| 79) | I | 1,4-Dichlorobenzene-d4 ---------------ISTD-------------------- | | | | | | | | | | |
| 80) | TP | Bromoform | | 0.203 | 0.261 | 0.281 | 0.294 | 0.312 | 0.316 | 0.313 | 0.283 | 14.28 |
| 82) | TP | Isopropylbenzene | | 2.561 | 3.070 | 3.126 | 3.137 | 3.176 | 3.154 | 3.083 | 3.044 | 7.10 |
| 83) | S | 4-Bromofluorob... | 0.964 | 0.962 | 0.943 | 0.935 | 0.911 | 0.906 | 0.909 | 0.898 | 0.928 | 2.81 |
| 84) | TP | Bromobenzene | | 0.595 | 0.688 | 0.682 | 0.673 | 0.689 | 0.681 | 0.669 | 0.668 | 4.96 |
| 85) | TP | n-Propylbenzene | | 2.999 | 3.565 | 3.577 | 3.589 | 3.633 | 3.602 | 3.532 | 3.500 | 6.37 |
| 86) | TP | 1,4-Dichlorobu... | | 0.939 | 0.784 | 0.759 | 0.747 | 0.766 | 0.765 | 0.751 | 0.787 | 8.63 |
| 87) | TP | 1,1,2,2-Tetrac... | | 0.479 | 0.467 | 0.462 | 0.462 | 0.474 | 0.477 | 0.466 | 0.470 | 1.48 |
| 88) | TP | 4-Ethyltoluene | | 2.471 | 2.884 | 2.963 | 2.992 | 3.057 | 3.028 | 2.965 | 2.909 | 6.90 |
| 89) | TP | 2-Chlorotoluene | | 1.834 | 2.013 | 2.050 | 2.038 | 2.057 | 2.049 | 2.014 | 2.008 | 3.92 |
| 90) | TP | 1,3,5-Trimethy... | | 2.184 | 2.398 | 2.518 | 2.538 | 2.602 | 2.588 | 2.550 | 2.482 | 5.95 |
| 91) | TP | 1,2,3-Trichlor... | | 0.389 | 0.367 | 0.387 | 0.379 | 0.387 | 0.391 | 0.383 | 0.383 | 2.14 |
| 92) | TP | trans-1,4-Dich... | | 0.133 | 0.144 | 0.149 | 0.153 | 0.159 | 0.161 | 0.157 | 0.151 | 6.56 |
| 93) | TP | 4-Chlorotoluene | | 1.774 | 2.030 | 2.082 | 2.076 | 2.125 | 2.109 | 2.085 | 2.040 | 5.94 |
| 94) | TP | tert-Butylbenzene | | 1.808 | 2.073 | 2.156 | 2.155 | 2.191 | 2.179 | 2.143 | 2.101 | 6.40 |
| 97) | TP | 1,2,4-Trimethy... | | 2.086 | 2.366 | 2.442 | 2.443 | 2.516 | 2.489 | 2.450 | 2.399 | 6.07 |
| 98) | TP | sec-Butylbenzene | | 2.557 | 2.959 | 3.113 | 3.134 | 3.191 | 3.175 | 3.095 | 3.032 | 7.34 |
| 99) | TP | p-Isopropyltol... | | 2.060 | 2.535 | 2.656 | 2.694 | 2.749 | 2.718 | 2.652 | 2.580 | 9.27 |
| 100) | TP | 1,3-Dichlorobe... | | 1.126 | 1.233 | 1.292 | 1.292 | 1.325 | 1.313 | 1.287 | 1.267 | 5.42 |
| 101) | TP | 1,4-Dichlorobe... | | 1.216 | 1.254 | 1.299 | 1.288 | 1.321 | 1.306 | 1.286 | 1.281 | 2.78 |
| 102) | TP | p-Diethylbenzene | | 1.156 | 1.401 | 1.499 | 1.530 | 1.577 | 1.565 | 1.540 | 1.467 | 10.16 |
| 103) | TP | n-Butylbenzene | | 1.686 | 2.004 | 2.104 | 2.153 | 2.204 | 2.202 | 2.166 | 2.074 | 8.89 |
| 104) | TP | 1,2-Dichlorobe... | | 0.938 | 1.091 | 1.124 | 1.124 | 1.157 | 1.147 | 1.132 | 1.102 | 6.84 |
| 105) | TP | 1,2,4,5-Tetram... | | 1.740 | 1.920 | 2.046 | 2.066 | 2.176 | 2.151 | 2.122 | 2.032 | 7.58 |
| 106) | TP | 1,2-Dibromo-3-... | | 0.035 | 0.057 | 0.058 | 0.062 | 0.066 | 0.068 | 0.067 | 0.059 | 19.43 |
| 107) | TP | 1,3,5-Trichlor... | | 0.614 | 0.696 | 0.709 | 0.719 | 0.752 | 0.746 | 0.737 | 0.710 | 6.61 |

Response Factor Report VOA 101

Method Path : K:\VOA101\2024\241206NICAL\
Method File : V101_241206N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Dec 09 07:45:49 2024
Response Via : Initial Calibration

Calibration Files
L11 =V01241206N03.D L1 =V01241206N05.D L2 =V01241206N07.D L3 =V01241206N09.D L4 =V01241206N10.D
L6 =V01241206N11.D L8 =V01241206N12.D L10 =V01241206N13.D

| | Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 108) TP | Hexachlorobuta... | 0.266 | 0.259 | 0.252 | 0.255 | 0.265 | 0.269 | 0.270 | 0.262 | 2.68 | |
| 109) TP | 1,2,4-Trichlor... | 0.492 | 0.553 | 0.570 | 0.566 | 0.589 | 0.595 | 0.595 | 0.566 | 6.43 | |
| 110) TP | Naphthalene | 1.112 | 1.110 | 1.145 | 1.145 | 1.165 | 1.207 | 1.183 | 1.152 | 3.08 | |
| 111) TP | 1,2,3-Trichlor... | 0.416 | 0.418 | 0.433 | 0.431 | 0.443 | 0.452 | 0.451 | 0.435 | 3.38 | |

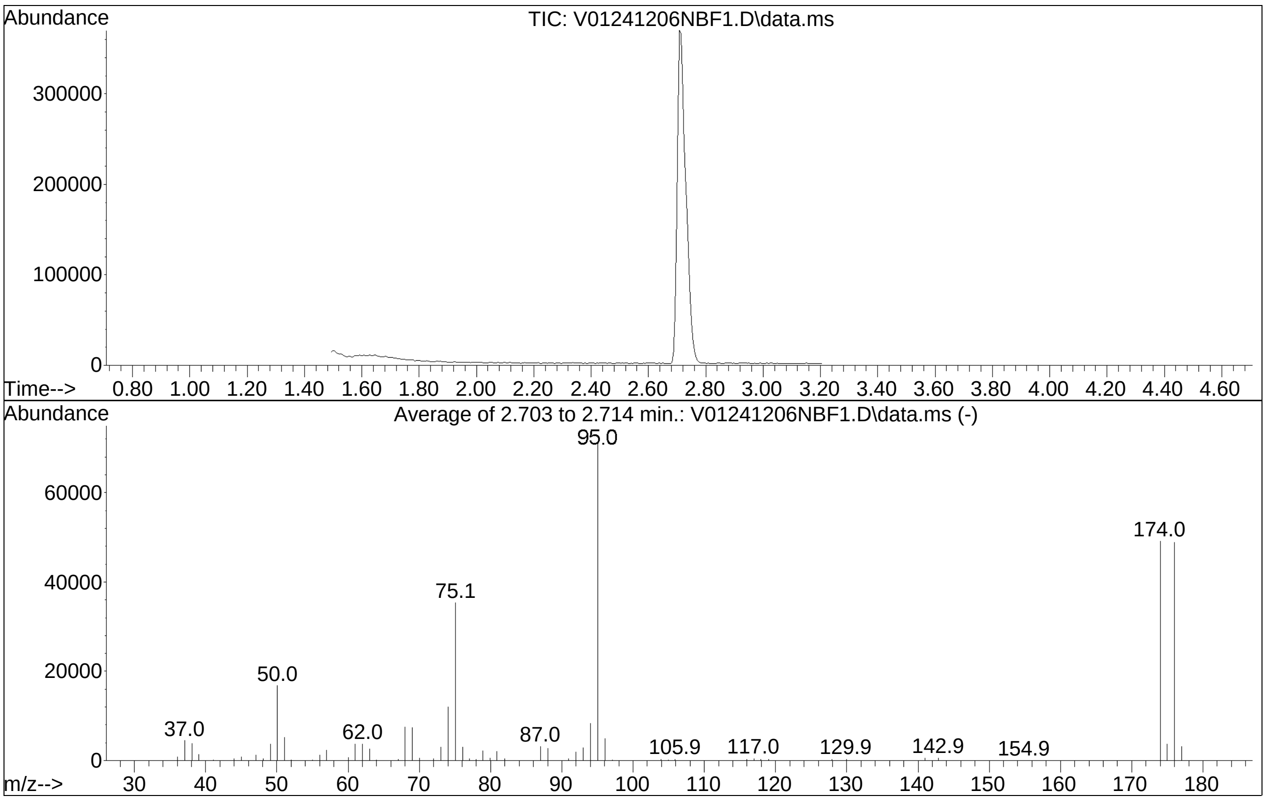
(#) = Out of Range

BFB

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206NBF1.D
Acq On : 6 Dec 2024 11:17 pm
Operator : VOA101:TMS
Sample : WG2006865-1
Misc : WG2006865
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Dec 09 07:45:49 2024




AutoFind: Scans 232, 233, 234; Background Corrected with Scan 225

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 23.5 | 16770 | PASS |
| 75 | 95 | 30 | 60 | 49.6 | 35461 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 71493 | PASS |
| 96 | 95 | 5 | 9 | 6.9 | 4935 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 68.8 | 49168 | PASS |
| 175 | 174 | 5 | 9 | 7.6 | 3745 | PASS |
| 176 | 174 | 95 | 101 | 99.3 | 48843 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 3132 | PASS |

Quantitation Report (QT Reviewed)

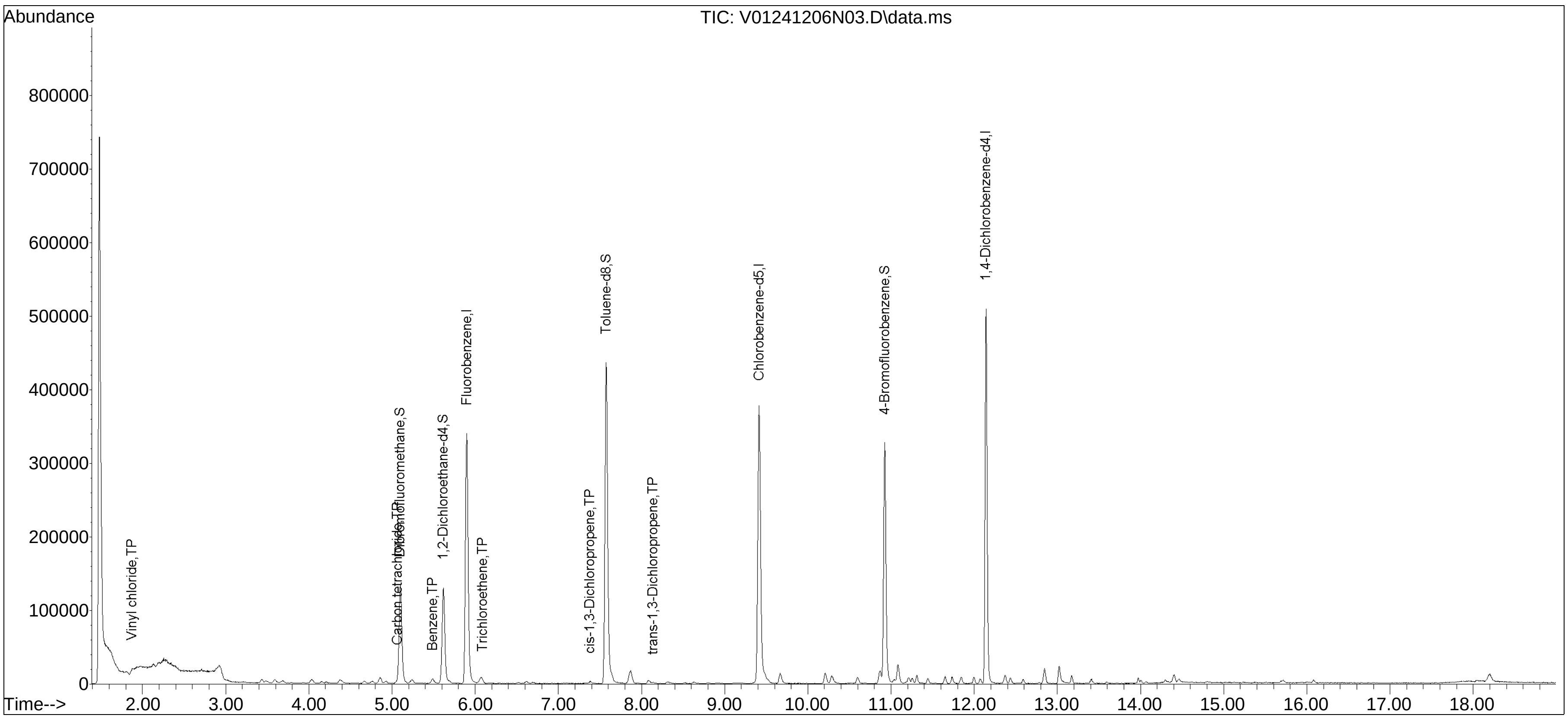
```
Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N03.D
Acq On    :  7 Dec 2024  12:30 am
Operator  : VOA101:PID
Sample    : I8260STD0.19PPB
Misc      : WG2006865,ICAL
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Dec 09 07:41:27 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List     : 8260-L11_MCP - L11 MCP

       Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ------------------------------------------------------------------------
 Internal Standards
 1) Fluorobenzene              5.899   96    358558    10.000 ug/L     0.00
   Standard Area 1 = 319719                Recovery   =  112.15%
59) Chlorobenzene-d5           9.415  117    277514    10.000 ug/L     0.00
   Standard Area 1 = 251130                Recovery   =  110.51%
79) 1,4-Dichlorobenzene-d4    12.143  152    140761    10.000 ug/L     0.00
   Standard Area 1 = 133469                Recovery   =  105.46%

 System Monitoring Compounds
36) Dibromofluoromethane       5.098  113     94238     9.732 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =   97.32%
43) 1,2-Dichloroethane-d4      5.617   65    104503     9.896 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =   98.96%
60) Toluene-d8                 7.575   98    357465    10.219 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =  102.19%
83) 4-Bromofluorobenzene      10.924   95    135685    10.382 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =  103.82%

 Target Compounds                                               Qvalue
 4) Vinyl chloride             1.875   62       1980      0.165 ug/L #    59
34) Carbon tetrachloride       5.068  117       2146      0.167 ug/L #    30
41) Benzene                    5.492   78       6181      0.180 ug/L #    72
48) Trichloroethene            6.088   95       1675      0.175 ug/L      86
58) cis-1,3-Dichloropropene    7.382   75       2220M1    0.163 ug/L
65) trans-1,3-Dichloropropene  8.141   75       1517      0.138 ug/L #    68
 ------------------------------------------------------------------------

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

Quantitation Report    (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N03.D
Acq On    :  7 Dec 2024  12:30 am
Operator  : VOA101:PID
Sample    : I8260STD0.19PPB
Misc      : WG2006865,ICAL
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Dec 09 07:41:27 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

Sub List     : 8260-L11_MCP - L11 MCP206NICAL\V01241206N09.D•

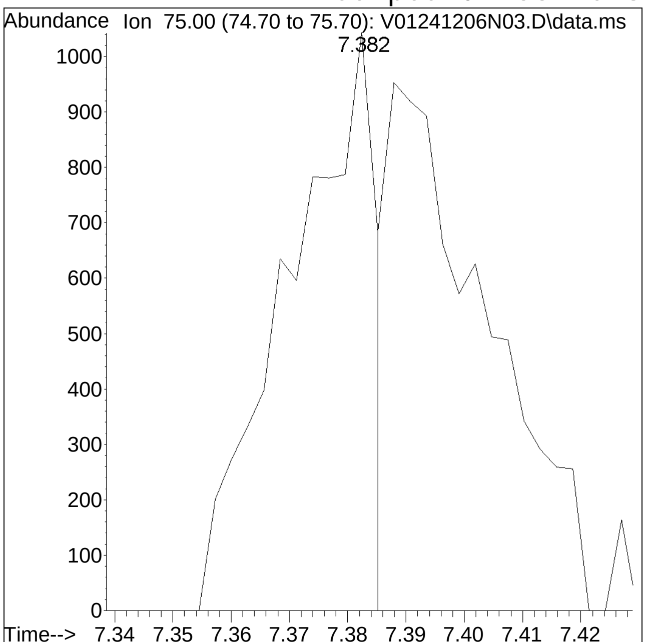


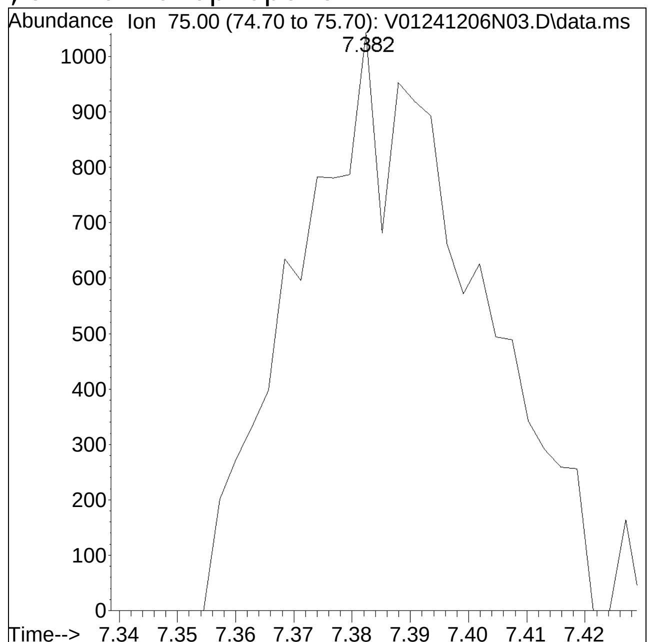

V101_241206N_8260.m Tue Dec 10 09:59:30 2024                    Page: 2

Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQMethod : V101_241206N_8260.m
Data File : V01241206N03.D Operator : VOA101:PID
Date Inj'd : 12/7/2024 12:30 am Instrument : VOA 101
Sample : I8260STD0.19PPB Quant Date : 12/9/2024 7:41 am

Compound #58: cis-1,3-Dichloropropene




Original Peak Response = 1090 Manual Peak Response = 2220 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N05.D
Acq On : 7 Dec 2024 1:22 am
Operator : VOA101:PID
Sample : I8260STD0.5PPB
Misc : WG2006865,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 09 07:41:34 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List : 8260-Curve - Megamix plus Diox

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) Fluorobenzene | 5.899 | 96 | 339464 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 319719 | | | Recovery | = 106.18% | |
| 59) Chlorobenzene-d5 | 9.412 | 117 | 265925 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 251130 | | | Recovery | = 105.89% | |
| 79) 1,4-Dichlorobenzene-d4 | 12.143 | 152 | 134299 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 133469 | | | Recovery | = 100.62% | |
| System Monitoring Compounds | | | | | |
| 36) Dibromofluoromethane | 5.101 | 113 | 90352 | 9.856 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 98.56% | |
| 43) 1,2-Dichloroethane-d4 | 5.614 | 65 | 97270 | 9.730 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 97.30% | |
| 60) Toluene-d8 | 7.575 | 98 | 341181 | 10.178 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 101.78% | |
| 83) 4-Bromofluorobenzene | 10.927 | 95 | 129205 | 10.362 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 103.62% | |

| Target Compounds | | | | | Qvalue |
|---|---|---|---|---|---|
| 2) Dichlorodifluoromethane | 1.624 | 85 | 4097 | 0.389 ug/L | 98 |
| 3) Chloromethane | 1.813 | 50 | 4625 | 0.428 ug/L | 98 |
| 4) Vinyl chloride | 1.878 | 62 | 4510 | 0.397 ug/L | 91 |
| 5) Bromomethane | 2.173 | 94 | 2112 | 0.370 ug/L | 100 |
| 6) Chloroethane | 2.288 | 64 | 2965M6 | 0.417 ug/L | |
| 7) Trichlorofluoromethane | 2.421 | 101 | 5341 | 0.362 ug/L | 97 |
| 8) Ethyl ether | 2.711 | 74 | 1944 | 0.494 ug/L | 86 |
| 10) 1,1-Dichloroethene | 2.890 | 96 | 3570 | 0.419 ug/L | 96 |
| 11) Carbon disulfide | 2.921 | 76 | 11322 | 0.434 ug/L # | 87 |
| 12) Freon-113 | 2.929 | 101 | 3348 | 0.372 ug/L # | 57 |
| 13) Iodomethane | 3.027 | 142 | 3091 | 0.283 ug/L # | 93 |
| 14) Acrolein | 3.216 | 56 | 846M1 | 0.763 ug/L | |
| 15) Methylene chloride | 3.439 | 84 | 4395M3 | 0.533 ug/L | |
| 17) Acetone | 3.481 | 43 | 4200 | 1.536 ug/L # | 70 |
| 18) trans-1,2-Dichloroethene | 3.587 | 96 | 3515 | 0.422 ug/L # | 89 |
| 19) Methyl acetate | 3.607 | 43 | 4116 | 0.918 ug/L # | 65 |
| 20) Methyl tert-butyl ether | 3.682 | 73 | 8373 | 0.470 ug/L # | 80 |
| 21) tert-Butyl alcohol | 3.791 | 59 | 827M3 | 1.927 ug/L | |
| 22) Diisopropyl ether | 4.039 | 45 | 13865 | 0.467 ug/L | 94 |
| 23) 1,1-Dichloroethane | 4.150 | 63 | 6695 | 0.418 ug/L # | 53 |
| 24) Halothane | 4.214 | 117 | 2527M3 | 0.388 ug/L | |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N05.D
Acq On : 7 Dec 2024 1:22 am
Operator : VOA101:PID
Sample : I8260STD0.5PPB
Misc : WG2006865,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 09 07:41:34 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List : 8260-Curve - Megamix plus Diox

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 25) Acrylonitrile | 4.214 | 53 | 631 | 0.374 ug/L # | 70 |
| 26) Ethyl tert-butyl ether | 4.376 | 59 | 11432 | 0.461 ug/L | 97 |
| 27) Vinyl acetate | 4.399 | 43 | 7875 | 0.540 ug/L # | 78 |
| 28) cis-1,2-Dichloroethene | 4.666 | 96 | 3899 | 0.428 ug/L | 98 |
| 29) 2,2-Dichloropropane | 4.764 | 77 | 5395 | 0.410 ug/L # | 57 |
| 30) Bromochloromethane | 4.861 | 128 | 1833 | 0.434 ug/L | 87 |
| 31) Cyclohexane | 4.853 | 56 | 6840 | 0.405 ug/L # | 35 |
| 32) Chloroform | 4.931 | 83 | 6568M3 | 0.443 ug/L | |
| 33) Ethyl acetate | 5.040 | 43 | 2017M1 | 0.378 ug/L | |
| 34) Carbon tetrachloride | 5.059 | 117 | 4660 | 0.384 ug/L # | 29 |
| 35) Tetrahydrofuran | 5.096 | 42 | 989M1 | 0.629 ug/L | |
| 37) 1,1,1-Trichloroethane | 5.121 | 97 | 5483 | 0.405 ug/L # | 96 |
| 39) 2-Butanone | 5.227 | 43 | 4224 | 1.269 ug/L # | 46 |
| 40) 1,1-Dichloropropene | 5.249 | 75 | 4573 | 0.395 ug/L | 99 |
| 41) Benzene | 5.486 | 78 | 13812 | 0.424 ug/L | 96 |
| 42) tert-Amyl methyl ether | 5.589 | 73 | 8987M1 | 0.467 ug/L | |
| 44) 1,2-Dichloroethane | 5.690 | 62 | 4907 | 0.459 ug/L | 93 |
| 47) Methyl cyclohexane | 6.066 | 83 | 5589 | 0.372 ug/L | 82 |
| 48) Trichloroethene | 6.080 | 95 | 3809 | 0.421 ug/L # | 61 |
| 50) Dibromomethane | 6.526 | 93 | 1845M3 | 0.417 ug/L | |
| 51) 1,2-Dichloropropane | 6.618 | 63 | 3749 | 0.430 ug/L # | 64 |
| 53) 2-Chloroethyl vinyl ether | 7.332 | 63 | 1140M3 | 0.343 ug/L | |
| 54) Bromodichloromethane | 6.694 | 83 | 5068 | 0.451 ug/L # | 95 |
| 57) 1,4-Dioxane | 6.906 | 88 | 3836M1 | 84.808 ug/L | |
| 58) cis-1,3-Dichloropropene | 7.377 | 75 | 5274 | 0.410 ug/L # | 76 |
| 61) Toluene | 7.639 | 92 | 9188 | 0.430 ug/L | 98 |
| 62) 4-Methyl-2-pentanone | 8.085 | 58 | 426M3 | 0.248 ug/L | |
| 63) Tetrachloroethene | 8.085 | 166 | 3568 | 0.397 ug/L # | 83 |
| 65) trans-1,3-Dichloropropene | 8.141 | 75 | 4302M3 | 0.409 ug/L | |
| 67) Ethyl methacrylate | 8.325 | 69 | 2544M1 | 0.378 ug/L | |
| 68) 1,1,2-Trichloroethane | 8.308 | 83 | 2311 | 0.466 ug/L | 99 |
| 69) Chlorodibromomethane | 8.523 | 129 | 3247 | 0.426 ug/L | 94 |
| 70) 1,3-Dichloropropane | 8.629 | 76 | 4576 | 0.460 ug/L # | 54 |
| 71) 1,2-Dibromoethane | 8.796 | 107 | 2423M3 | 0.419 ug/L | |
| 72) 2-Hexanone | 9.103 | 43 | 1313M3 | 0.404 ug/L | |
| 73) Chlorobenzene | 9.443 | 112 | 10976 | 0.449 ug/L | 99 |
| 74) Ethylbenzene | 9.479 | 91 | 17511 | 0.415 ug/L | 100 |
| 75) 1,1,1,2-Tetrachloroethane | 9.524 | 131 | 3504 | 0.413 ug/L # | 67 |
| 76) p/m Xylene | 9.666 | 106 | 13711 | 0.817 ug/L | 93 |
| 77) o Xylene | 10.204 | 106 | 13125 | 0.820 ug/L | 100 |

Quantitation Report (QT Reviewed)

```
Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N05.D
Acq On    :  7 Dec 2024   1:22 am
Operator  : VOA101:PID
Sample    : I8260STD0.5PPB
Misc      : WG2006865,ICAL
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Dec 09 07:41:34 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List     : 8260-Curve - Megamix plus Diox
```

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 78) Styrene | 10.285 | 104 | 21309 | 0.805 ug/L | 94 |
| 80) Bromoform | 10.308 | 173 | 1366 | 0.360 ug/L | 87 |
| 82) Isopropylbenzene | 10.600 | 105 | 17197 | 0.421 ug/L | 98 |
| 84) Bromobenzene | 11.035 | 156 | 3994 | 0.445 ug/L | 99 |
| 85) n-Propylbenzene | 11.080 | 91 | 20137 | 0.428 ug/L | 99 |
| 86) 1,4-Dichlorobutane | 11.105 | 55 | 6304 | 0.596 ug/L | 96 |
| 87) 1,1,2,2-Tetrachloroethane | 11.172 | 83 | 3217 | 0.510 ug/L | 93 |
| 88) 4-Ethyltoluene | 11.211 | 105 | 16594 | 0.425 ug/L | 99 |
| 89) 2-Chlorotoluene | 11.259 | 91 | 12313M1 | 0.457 ug/L | |
| 90) 1,3,5-Trimethylbenzene | 11.309 | 105 | 14663M4 | 0.440 ug/L | |
| 91) 1,2,3-Trichloropropane | 11.312 | 75 | 2611 | 0.507 ug/L # | 71 |
| 92) trans-1,4-Dichloro-2-b... | 11.365 | 53 | 890M1 | 0.440 ug/L | |
| 93) 4-Chlorotoluene | 11.443 | 91 | 11911 | 0.435 ug/L | 97 |
| 94) tert-Butylbenzene | 11.649 | 119 | 12141 | 0.430 ug/L # | 90 |
| 97) 1,2,4-Trimethylbenzene | 11.733 | 105 | 14009 | 0.435 ug/L | 98 |
| 98) sec-Butylbenzene | 11.844 | 105 | 17171 | 0.422 ug/L | 95 |
| 99) p-Isopropyltoluene | 11.995 | 119 | 13834 | 0.399 ug/L | 98 |
| 100) 1,3-Dichlorobenzene | 12.070 | 146 | 7558 | 0.444 ug/L | 99 |
| 101) 1,4-Dichlorobenzene | 12.159 | 146 | 8164M3 | 0.474 ug/L | |
| 102) p-Diethylbenzene | 12.374 | 119 | 7761 | 0.394 ug/L | 97 |
| 103) n-Butylbenzene | 12.435 | 91 | 11324M1 | 0.407 ug/L | |
| 104) 1,2-Dichlorobenzene | 12.589 | 146 | 6296 | 0.425 ug/L | 97 |
| 105) 1,2,4,5-Tetramethylben... | 13.169 | 119 | 11683 | 0.428 ug/L | 98 |
| 106) 1,2-Dibromo-3-chloropr... | 13.370 | 155 | 235M6 | 0.296 ug/L | |
| 107) 1,3,5-Trichlorobenzene | 13.403 | 180 | 4124 | 0.432 ug/L # | 92 |
| 108) Hexachlorobutadiene | 13.975 | 225 | 1787 | 0.507 ug/L | 90 |
| 109) 1,2,4-Trichlorobenzene | 14.003 | 180 | 3301 | 0.435 ug/L | 99 |
| 110) Naphthalene | 14.301 | 128 | 7466 | 0.482 ug/L | 100 |
| 111) 1,2,3-Trichlorobenzene | 14.463 | 180 | 2795 | 0.479 ug/L | 97 |

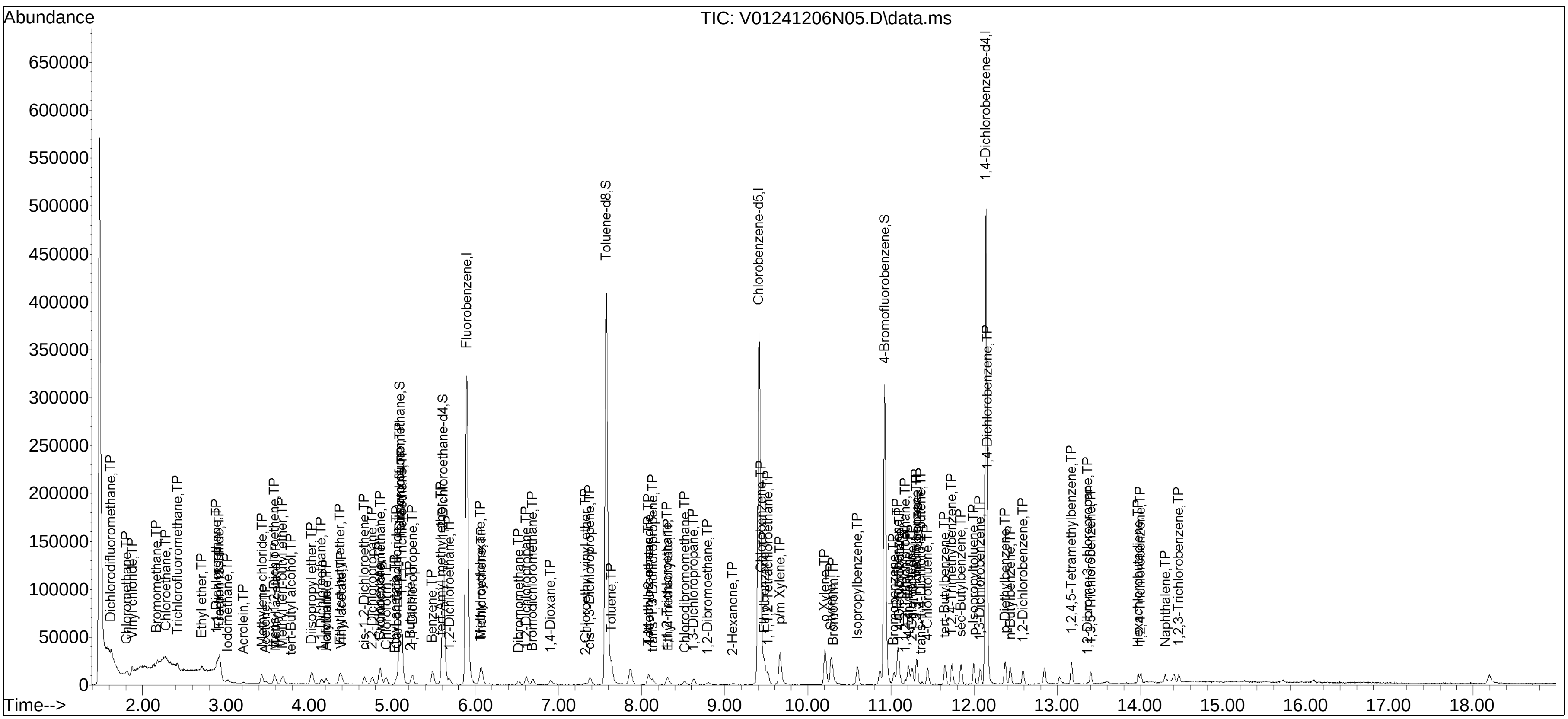
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N05.D
Acq On : 7 Dec 2024 1:22 am
Operator : VOA101:PID
Sample : I8260STD0.5PPB
Misc : WG2006865,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 09 07:41:34 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V01241206N09.D•

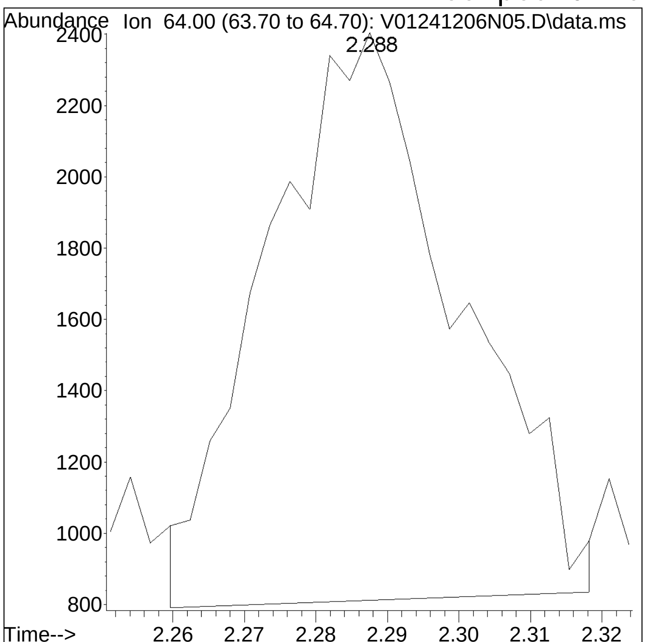


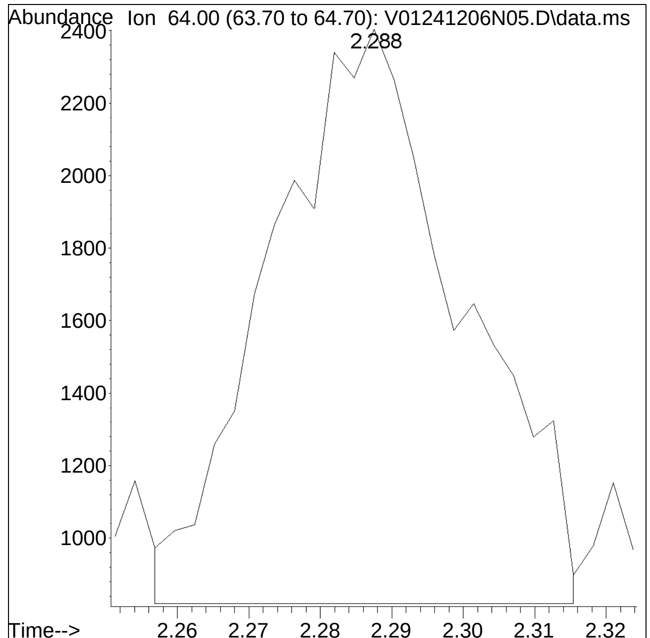
Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Data File : V01241206N05.D
Date Inj'd : 12/7/2024 1:22 am
Sample : I8260STD0.5PPB

Method : V101_241206N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 12/9/2024 7:41 am

Compound #6: Chloroethane




Original Peak Response = 2978

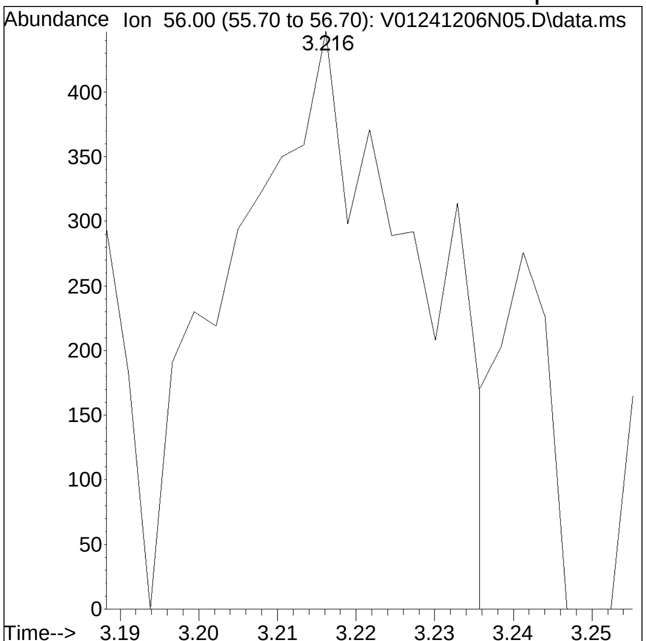
Manual Peak Response = 2965 M6

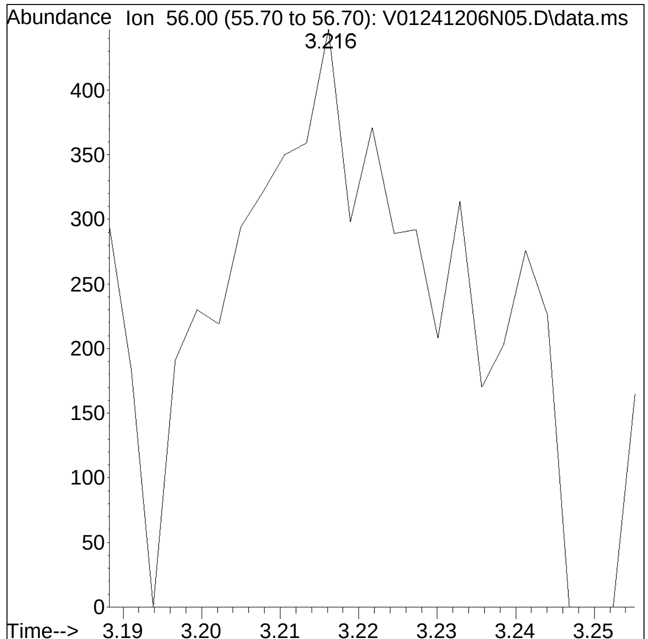
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA101\2024\241206NICALQ | Method | : V101_241206N_8260.m |
| Data File | : V01241206N05.D | Operator | : VOA101:PID |
| Date Inj'd | : 12/7/2024 1:22 am | Instrument | : VOA 101 |
| Sample | : I8260STD0.5PPB | Quant Date | : 12/9/2024 7:41 am |

Compound #14: Acrolein




Original Peak Response = 728

Manual Peak Response = 846 M1

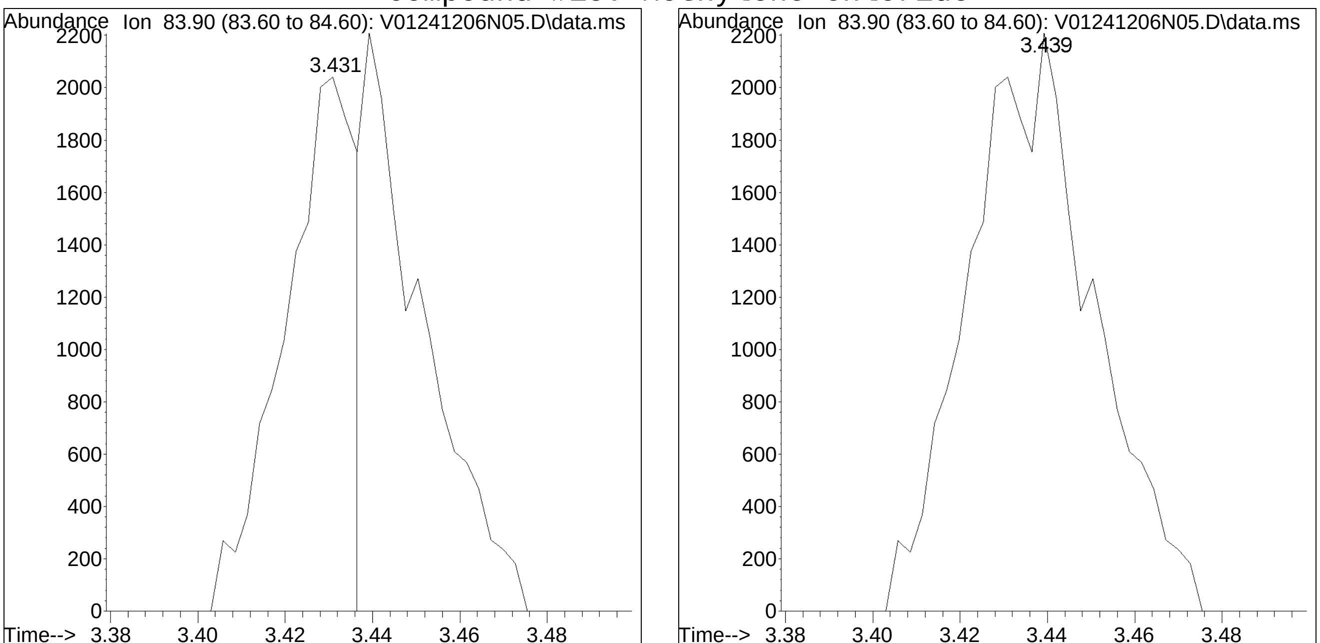
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Data File : V01241206N05.D
Date Inj'd : 12/7/2024 1:22 am
Sample : I8260STD0.5PPB

Method : V101_241206N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 12/9/2024 7:41 am

Compound #15: Methylene chloride



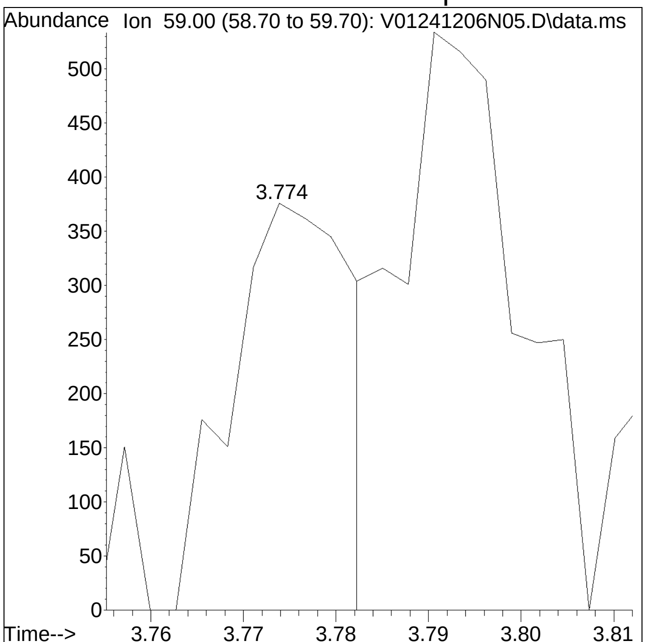

Original Peak Response = 2343 Manual Peak Response = 4395 M3

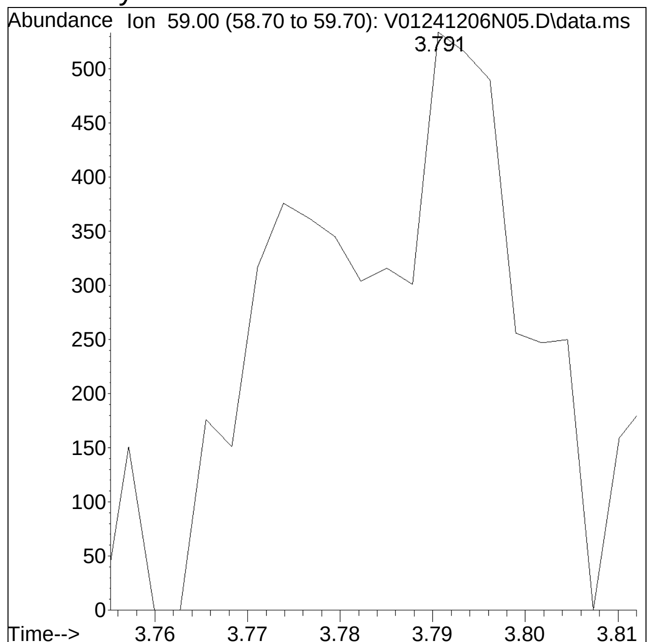
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : K:\VOA101\2024\241206NICALQMethod     : V101_241206N_8260.m
Data File   : V01241206N05.D            Operator    : VOA101:PID
Date Inj'd  : 12/7/2024  1:22 am        Instrument  : VOA 101
Sample      : I8260STD0.5PPB            Quant Date  : 12/9/2024  7:41 am
```

Compound #21: tert-Butyl alcohol



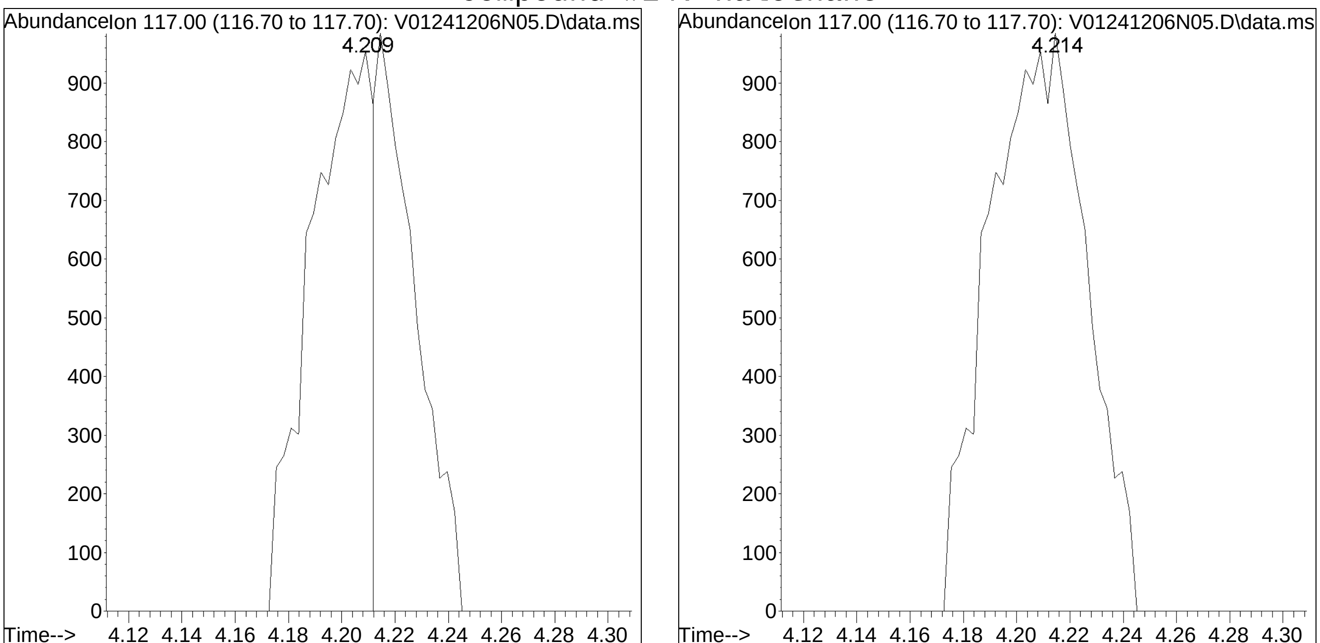

Original Peak Response = 340        Manual Peak Response = 827 M3

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

Manual Integration Report

```
Data Path   : K:\VOA101\2024\241206NICALQMethod      : V101_241206N_8260.m
Data File   : V01241206N05.D              Operator    : VOA101:PID
Date Inj'd  : 12/7/2024  1:22 am          Instrument  : VOA 101
Sample      : I8260STD0.5PPB              Quant Date  : 12/9/2024  7:41 am
```

Compound #24: Halothane



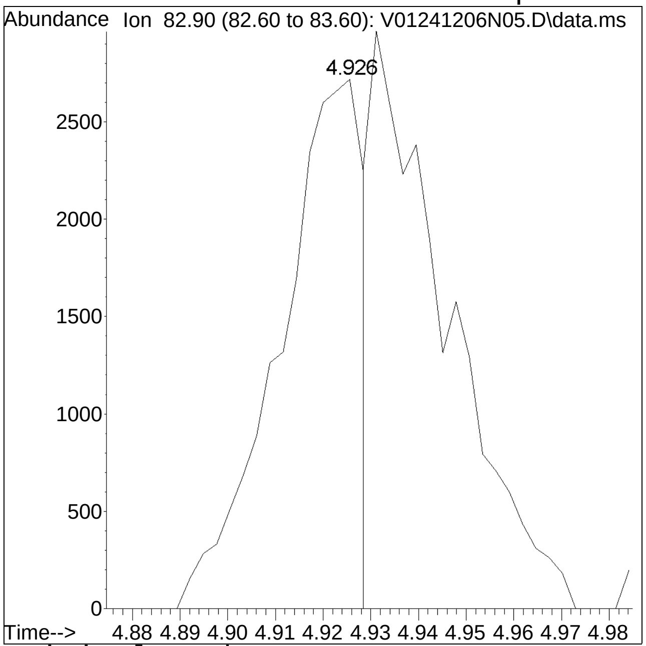

Original Peak Response = 1542        Manual Peak Response = 2527 M3

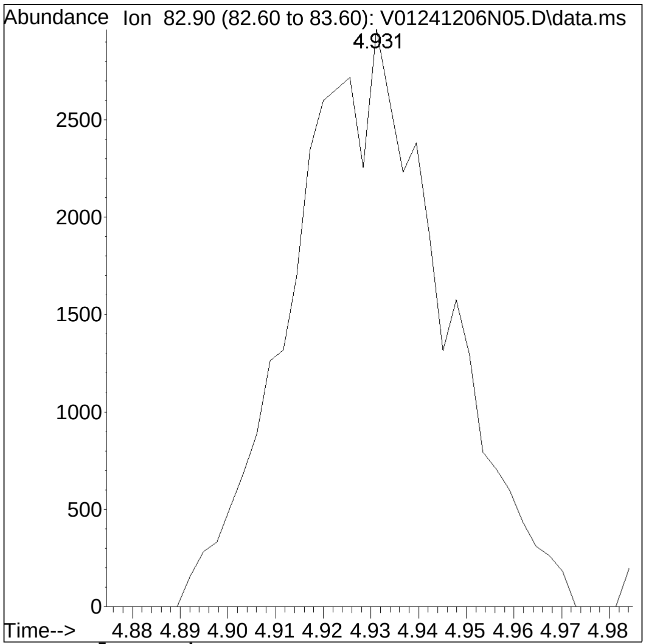
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQMethod : V101_241206N_8260.m
Data File : V01241206N05.D Operator : VOA101:PID
Date Inj'd : 12/7/2024 1:22 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 12/9/2024 7:41 am

Compound #32: Chloroform




Original Peak Response = 3298 Manual Peak Response = 6568 M3

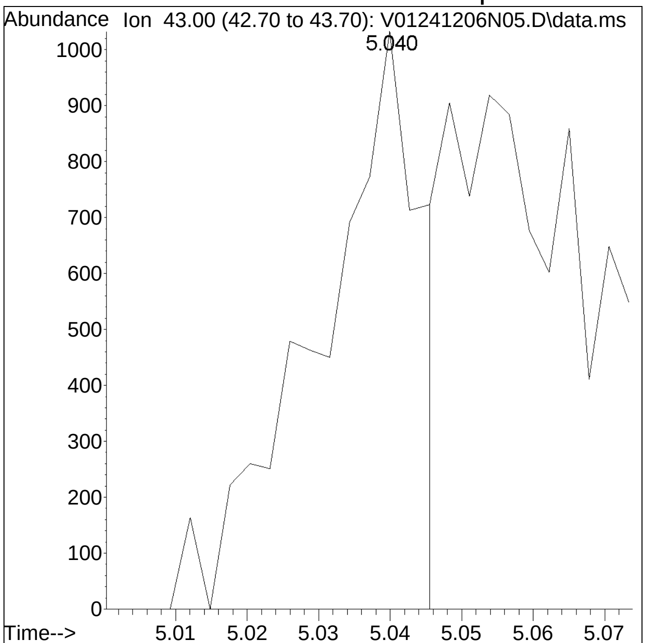
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

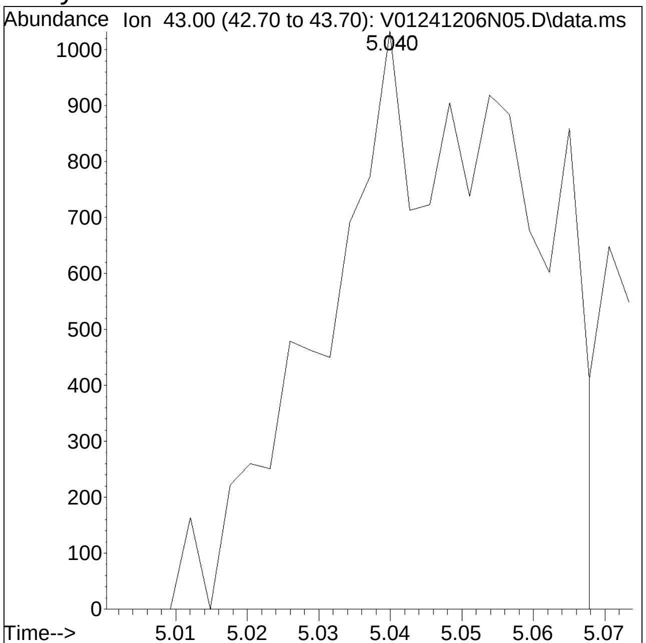
Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Data File : V01241206N05.D
Date Inj'd : 12/7/2024 1:22 am
Sample : I8260STD0.5PPB

Method : V101_241206N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 12/9/2024 7:41 am

Compound #33: Ethyl acetate




Original Peak Response = 1041

Manual Peak Response = 2017 M1

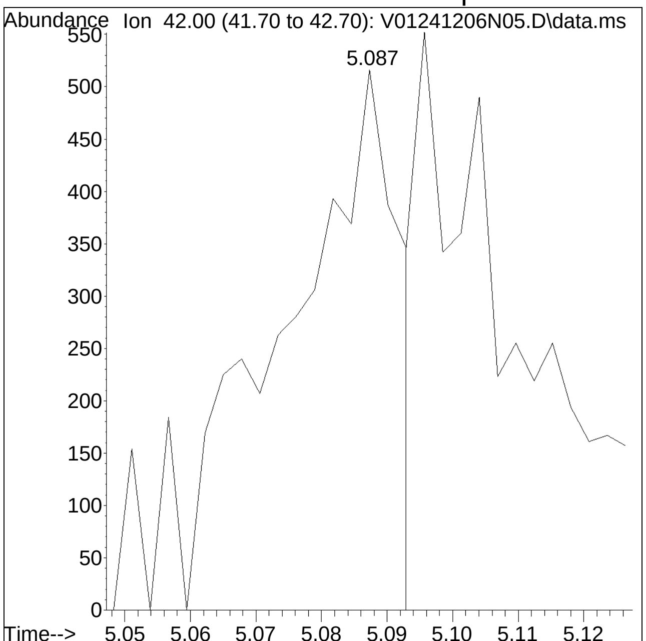
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

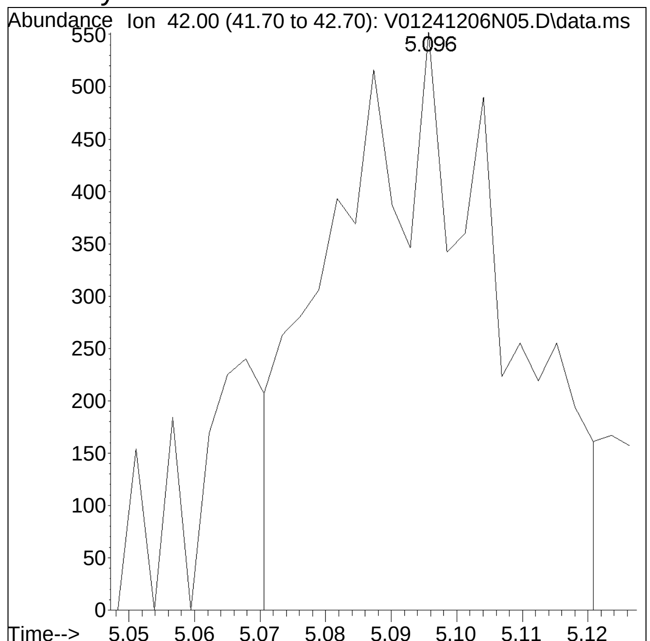
Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Data File : V01241206N05.D
Date Inj'd : 12/7/2024 1:22 am
Sample : I8260STD0.5PPB

Method : V101_241206N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 12/9/2024 7:41 am

Compound #35: Tetrahydrofuran




Original Peak Response = 650

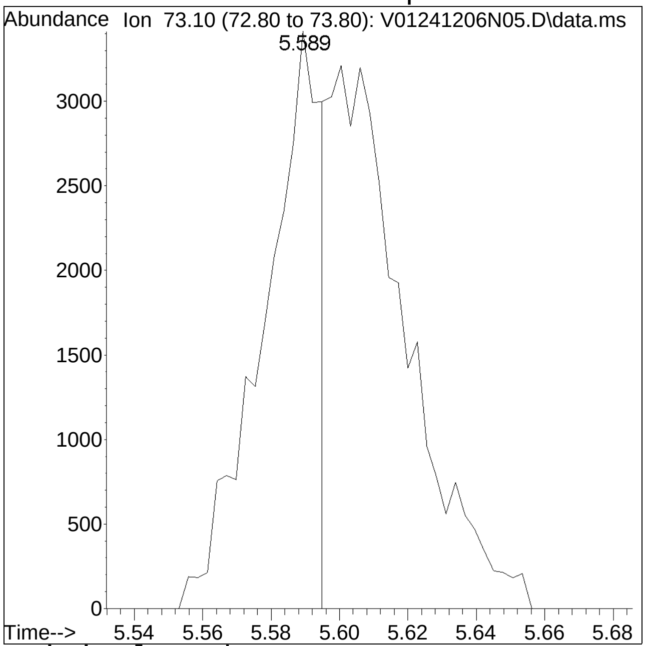
Manual Peak Response = 989 M1

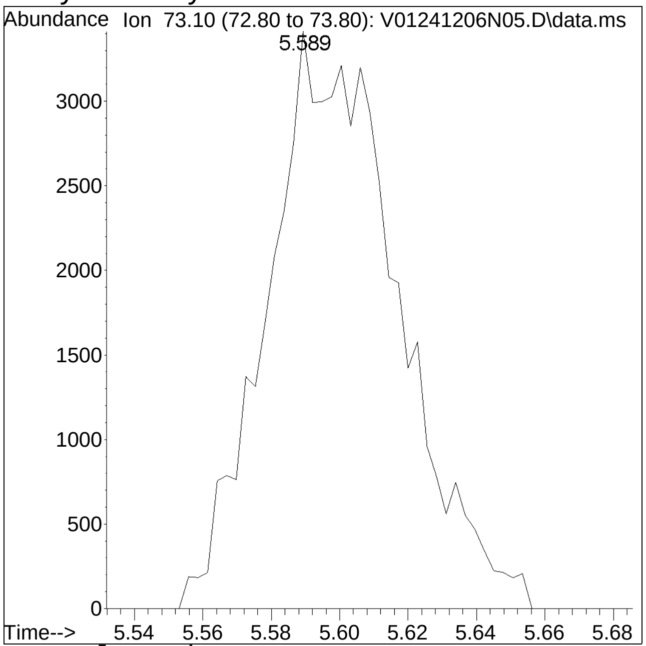
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

```
Data Path    : K:\VOA101\2024\241206NICALQMethod     : V101_241206N_8260.m
Data File    : V01241206N05.D          Operator     : VOA101:PID
Date Inj'd   : 12/7/2024  1:22 am      Instrument   : VOA 101
Sample       : I8260STD0.5PPB          Quant Date   : 12/9/2024  7:41 am
```

Compound #42: tert-Amyl methyl ether



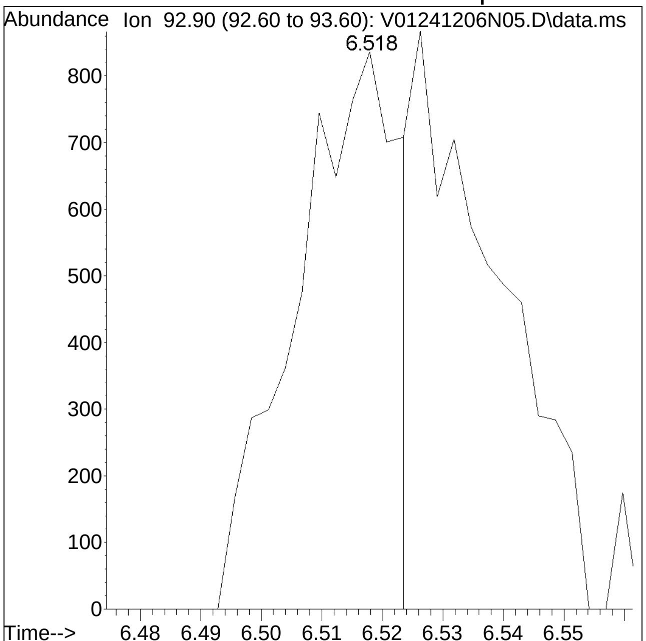

Original Peak Response = 3991        Manual Peak Response = 8987 M1

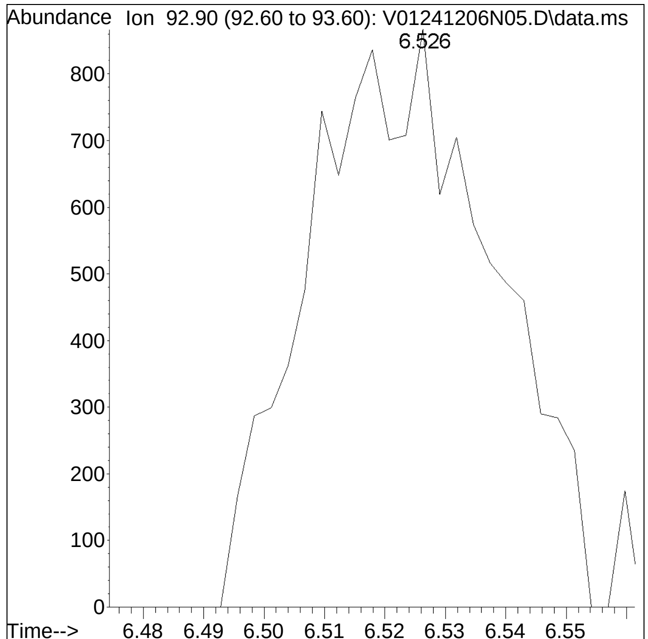
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA101\2024\241206NICALQ | Method | : V101_241206N_8260.m |
| Data File | : V01241206N05.D | Operator | : VOA101:PID |
| Date Inj'd | : 12/7/2024 1:22 am | Instrument | : VOA 101 |
| Sample | : I8260STD0.5PPB | Quant Date | : 12/9/2024 7:41 am |

Compound #50: Dibromomethane



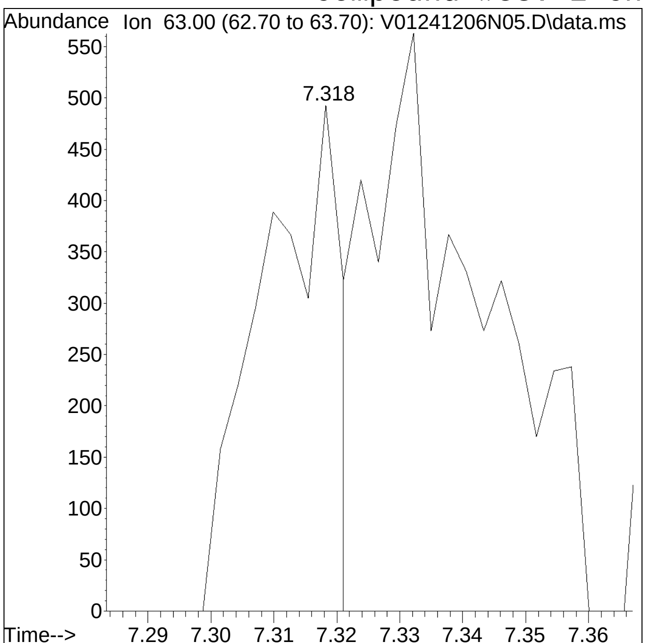

Original Peak Response = 1002 Manual Peak Response = 1845 M3

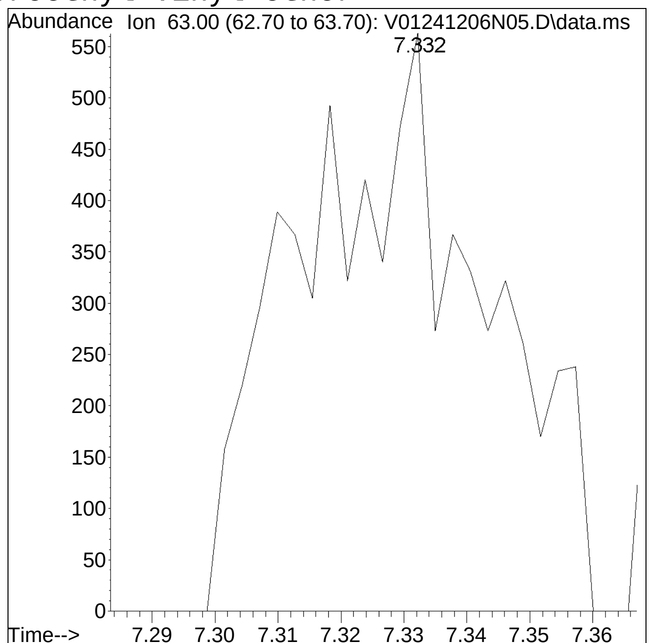
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : K:\VOA101\2024\241206NICALQMethod     : V101_241206N_8260.m
Data File   : V01241206N05.D             Operator    : VOA101:PID
Date Inj'd  : 12/7/2024  1:22 am         Instrument  : VOA 101
Sample      : I8260STD0.5PPB             Quant Date  : 12/9/2024  7:41 am
```

Compound #53: 2-Chloroethyl vinyl ether




Original Peak Response = 427          Manual Peak Response = 1140 M3

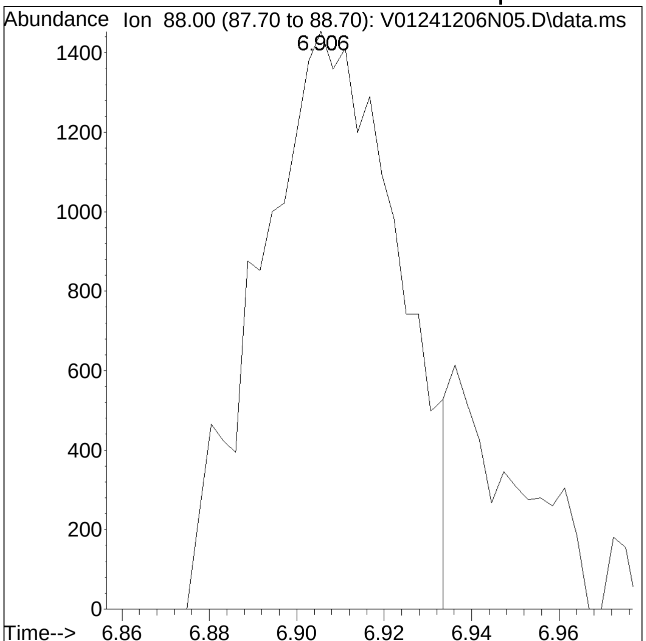
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

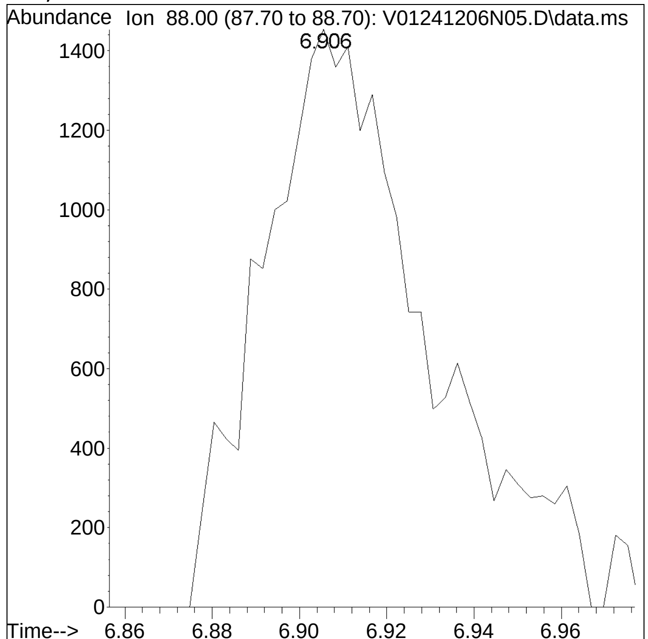
Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Data File : V01241206N05.D
Date Inj'd : 12/7/2024 1:22 am
Sample : I8260STD0.5PPB

Method : V101_241206N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 12/9/2024 7:41 am

Compound #57: 1,4-Dioxane




Original Peak Response = 3203

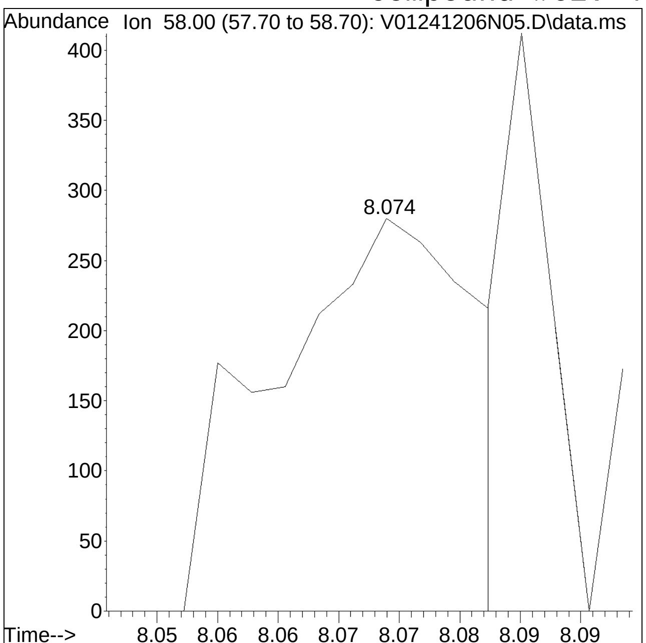
Manual Peak Response = 3836 M1

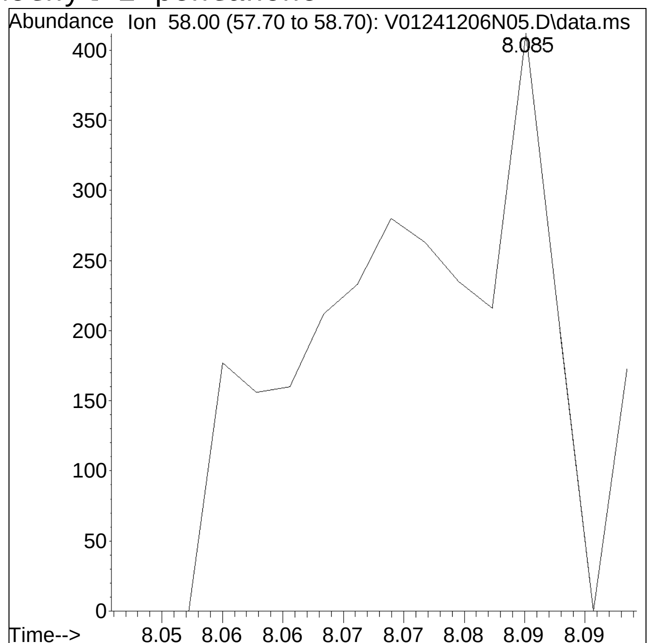
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

# Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQMethod : V101_241206N_8260.m
Data File : V01241206N05.D Operator : VOA101:PID
Date Inj'd : 12/7/2024 1:22 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 12/9/2024 7:41 am

Compound #62: 4-Methyl-2-pentanone



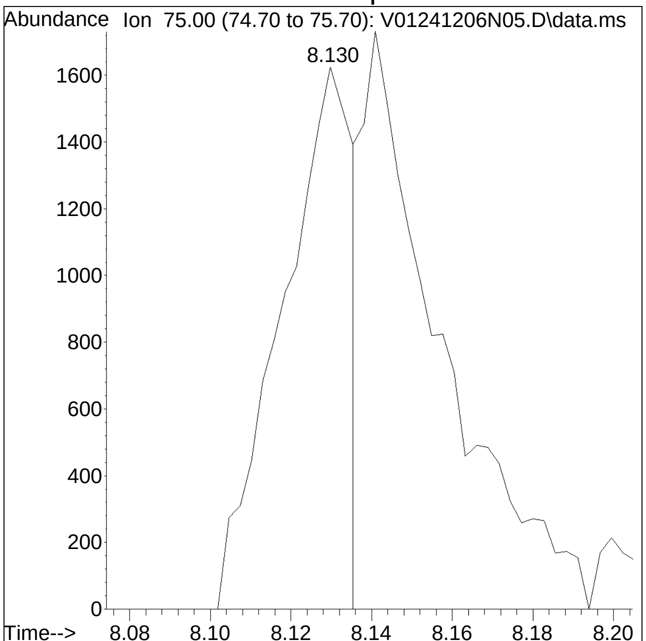

Original Peak Response = 323 Manual Peak Response = 426 M3

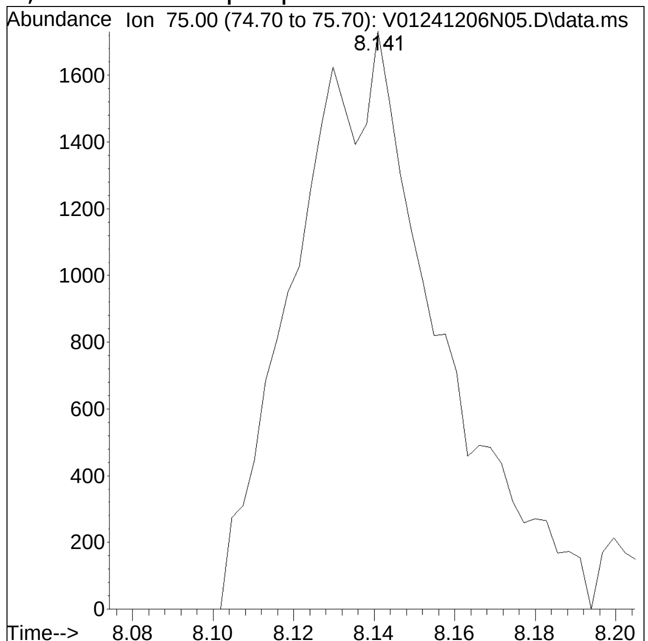
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQMethod : V101_241206N_8260.m
Data File : V01241206N05.D Operator : VOA101:PID
Date Inj'd : 12/7/2024 1:22 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 12/9/2024 7:41 am

Compound #65: trans-1,3-Dichloropropene



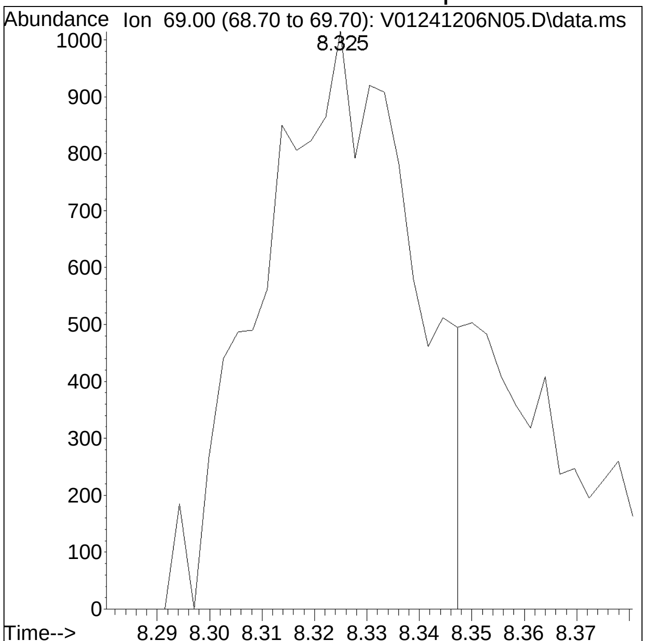



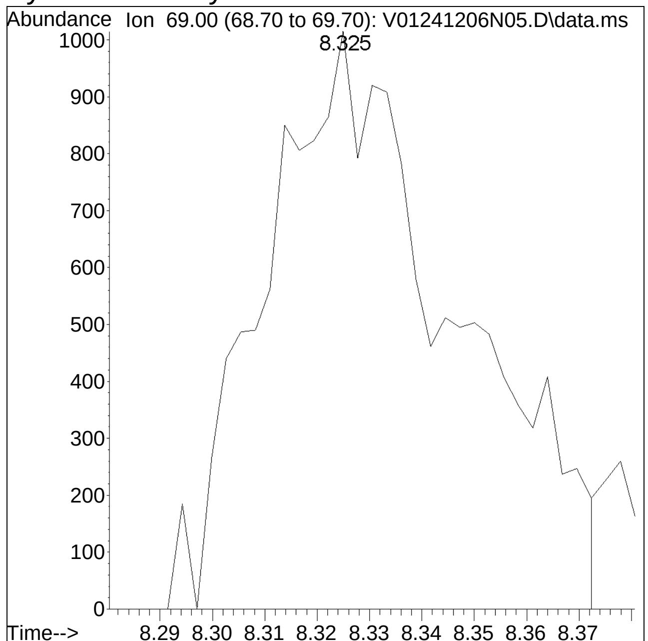

Original Peak Response = 1963 Manual Peak Response = 4302 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQMethod : V101_241206N_8260.m
Data File : V01241206N05.D Operator : VOA101:PID
Date Inj'd : 12/7/2024 1:22 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 12/9/2024 7:41 am

Compound #67: Ethyl methacrylate



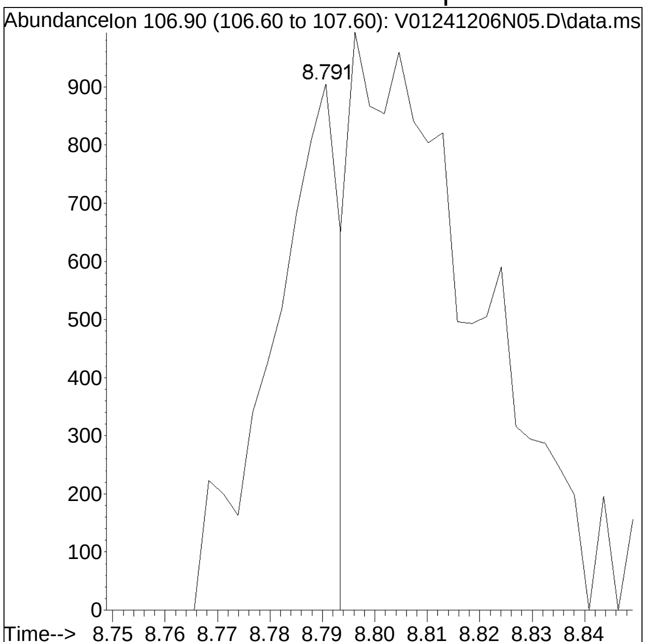



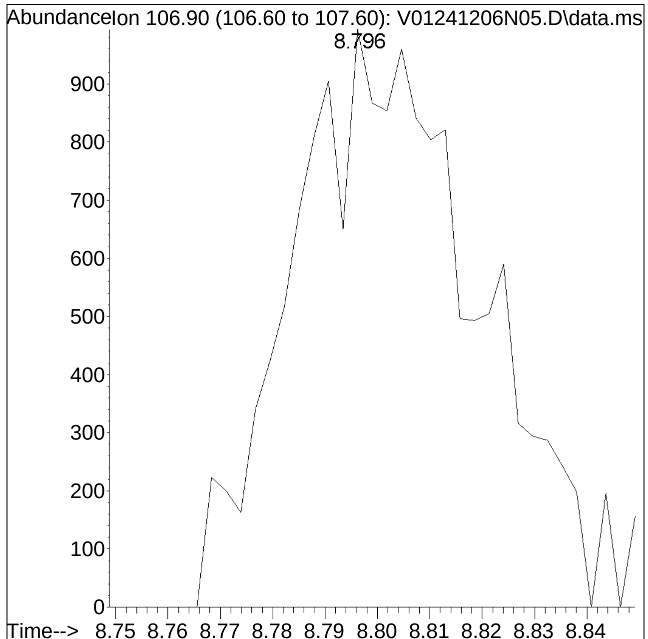

Original Peak Response = 2047 Manual Peak Response = 2544 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

```
Data Path   : K:\VOA101\2024\241206NICALQMethod     : V101_241206N_8260.m
Data File   : V01241206N05.D             Operator    : VOA101:PID
Date Inj'd  : 12/7/2024  1:22 am         Instrument  : VOA 101
Sample      : I8260STD0.5PPB             Quant Date  : 12/9/2024  7:41 am
```

Compound #71: 1,2-Dibromoethane



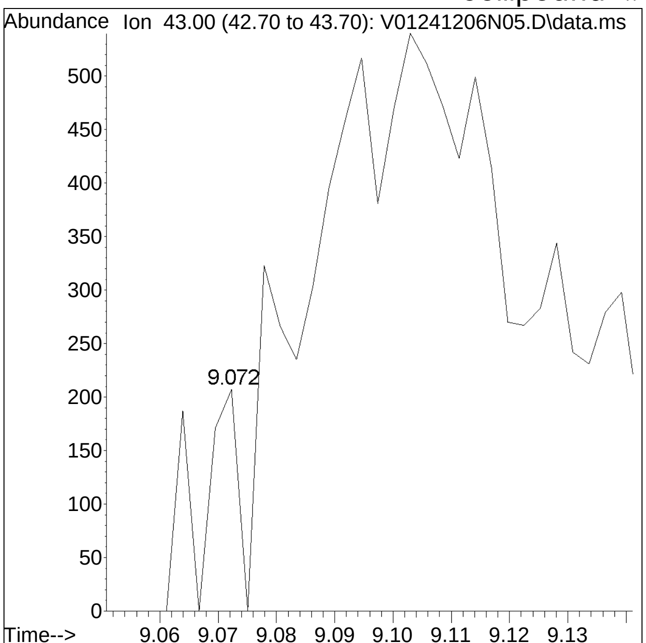

Original Peak Response = 822        Manual Peak Response = 2423 M3

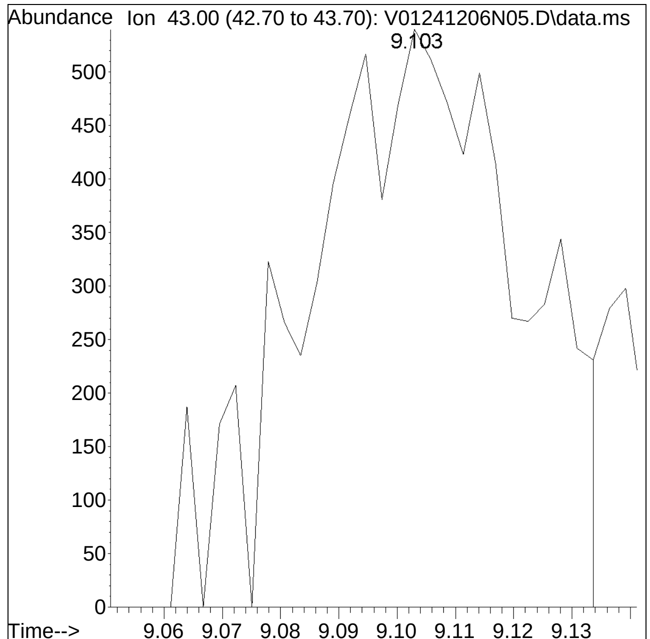
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ Method : V101_241206N_8260.m
Data File : V01241206N05.D Operator : VOA101:PID
Date Inj'd : 12/7/2024 1:22 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 12/9/2024 7:41 am

Compound #72: 2-Hexanone



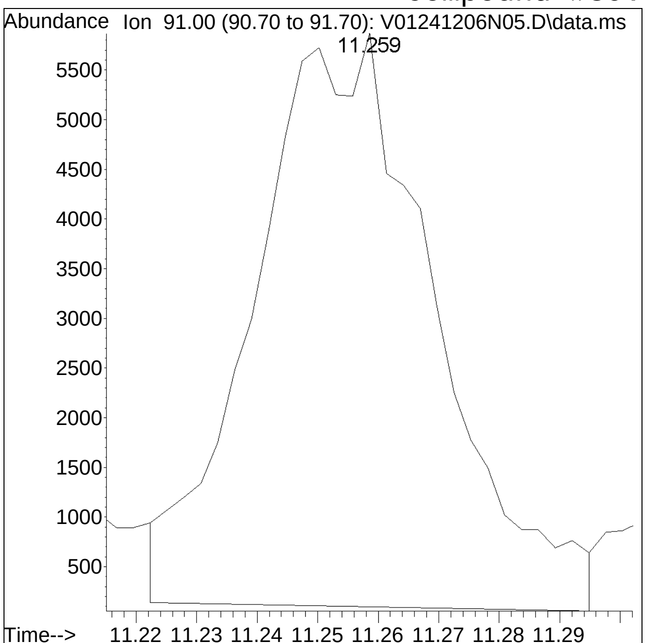

Original Peak Response = 94 Manual Peak Response = 1313 M3

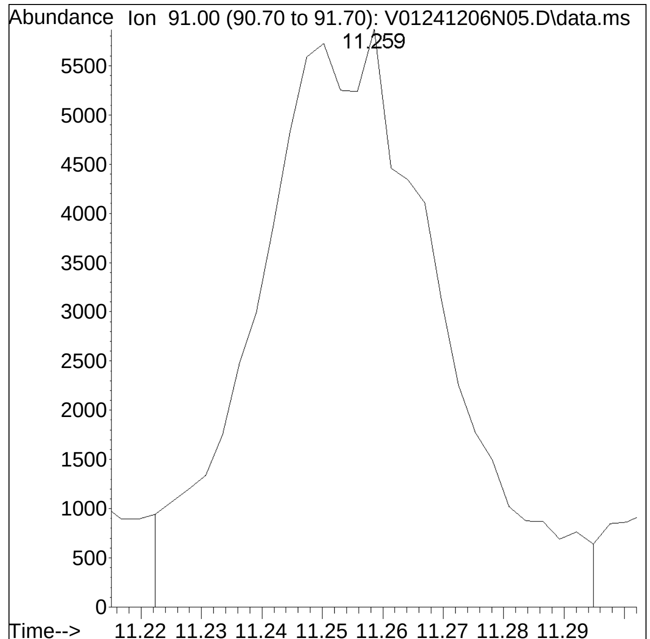
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

# Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQMethod : V101_241206N_8260.m
Data File : V01241206N05.D Operator : VOA101:PID
Date Inj'd : 12/7/2024 1:22 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 12/9/2024 7:41 am

Compound #89: 2-Chlorotoluene



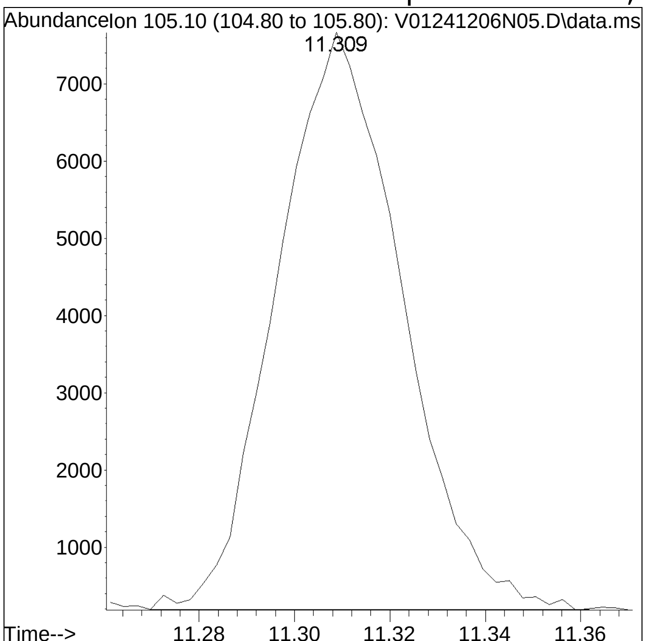



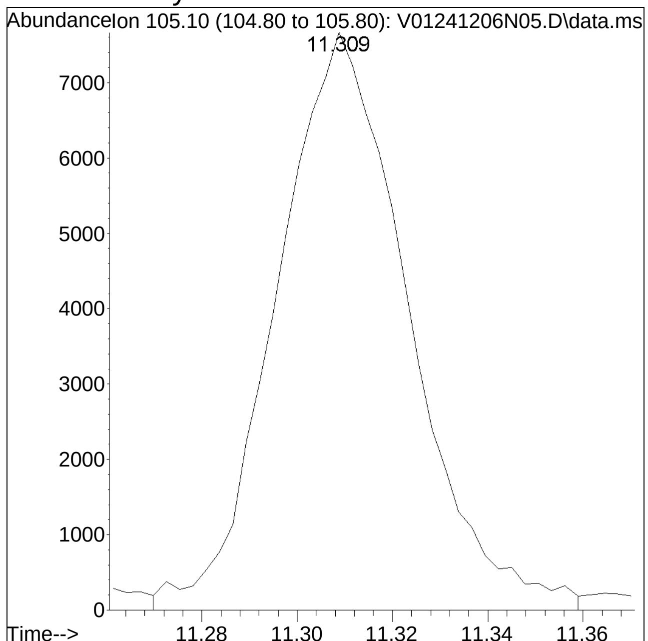

Original Peak Response = 11889 Manual Peak Response = 12313 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

```
Data Path   : K:\VOA101\2024\241206NICALQMethod     : V101_241206N_8260.m
Data File   : V01241206N05.D                Operator    : VOA101:PID
Date Inj'd  : 12/7/2024  1:22 am            Instrument  : VOA 101
Sample      : I8260STD0.5PPB                Quant Date  : 12/9/2024  7:41 am
```

Compound #90: 1,3,5-Trimethylbenzene




Original Peak Response = 13625        Manual Peak Response = 14663 M4

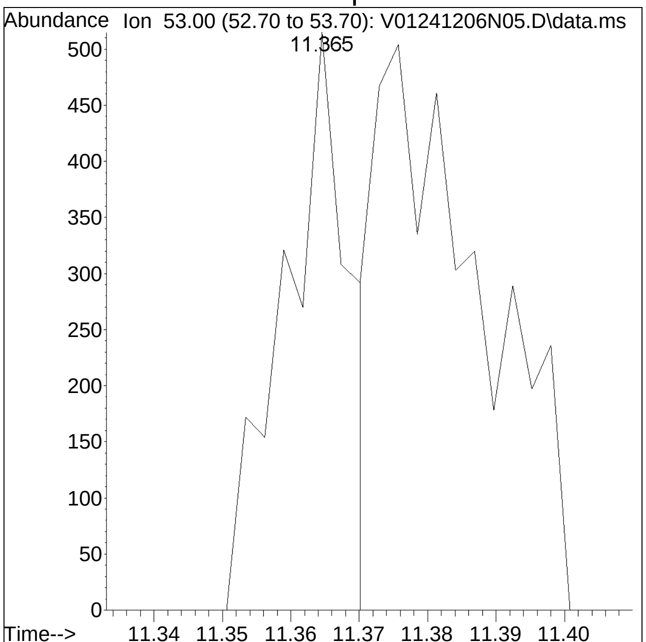
M4 = Poor automated baseline construction.

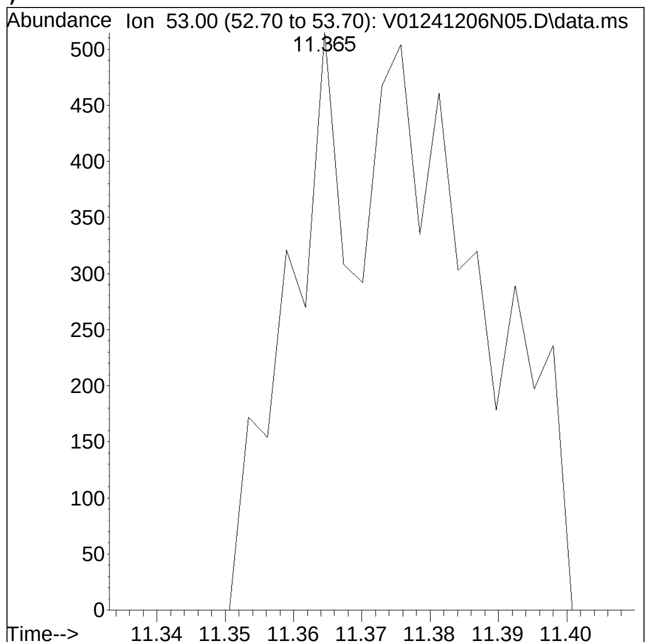
Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Data File : V01241206N05.D
Date Inj'd : 12/7/2024 1:22 am
Sample : I8260STD0.5PPB

Method : V101_241206N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 12/9/2024 7:41 am

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




Original Peak Response = 340

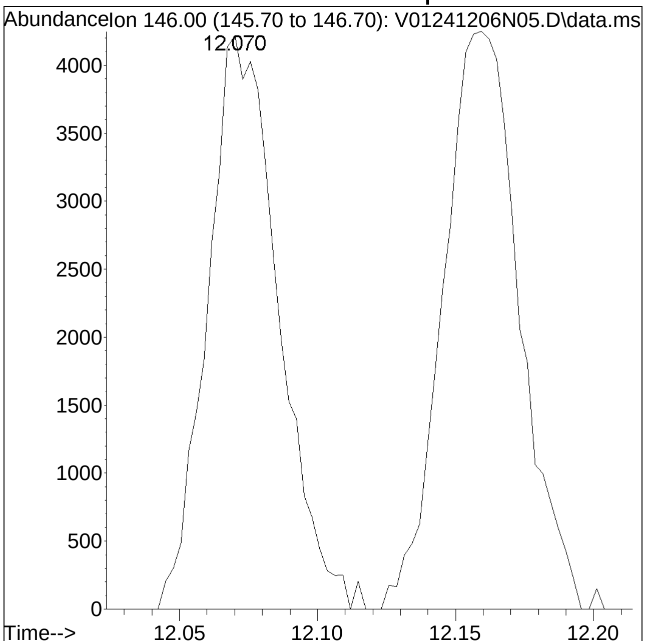
Manual Peak Response = 890 M1

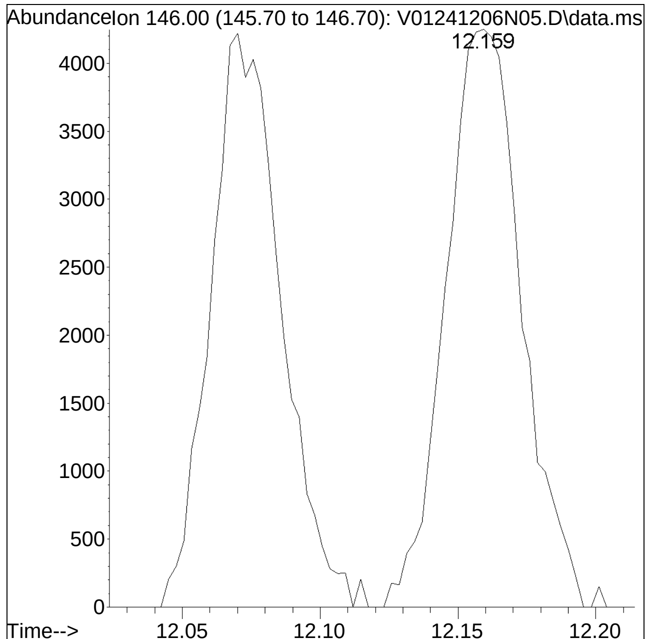
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

```
Data Path    : K:\VOA101\2024\241206NICALQMethod     : V101_241206N_8260.m
Data File    : V01241206N05.D             Operator    : VOA101:PID
Date Inj'd   : 12/7/2024  1:22 am         Instrument  : VOA 101
Sample       : I8260STD0.5PPB             Quant Date  : 12/9/2024  7:41 am
```

Compound #101: 1,4-Dichlorobenzene



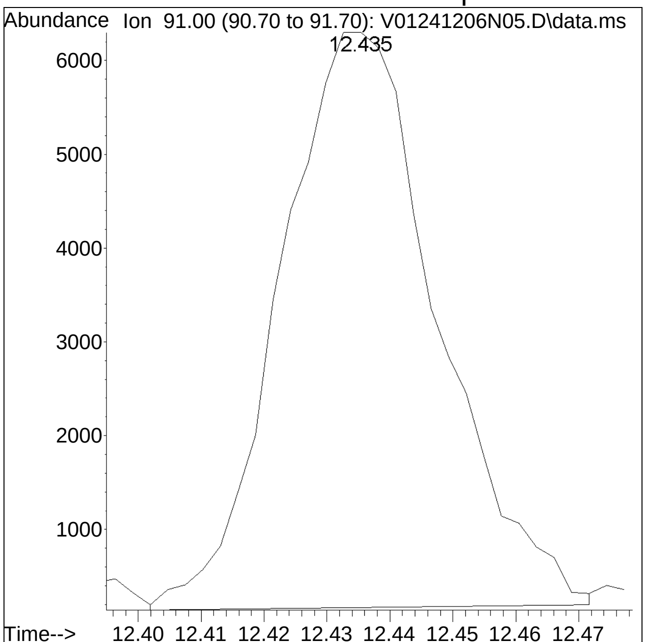

Original Peak Response = 7558        Manual Peak Response = 8164 M3

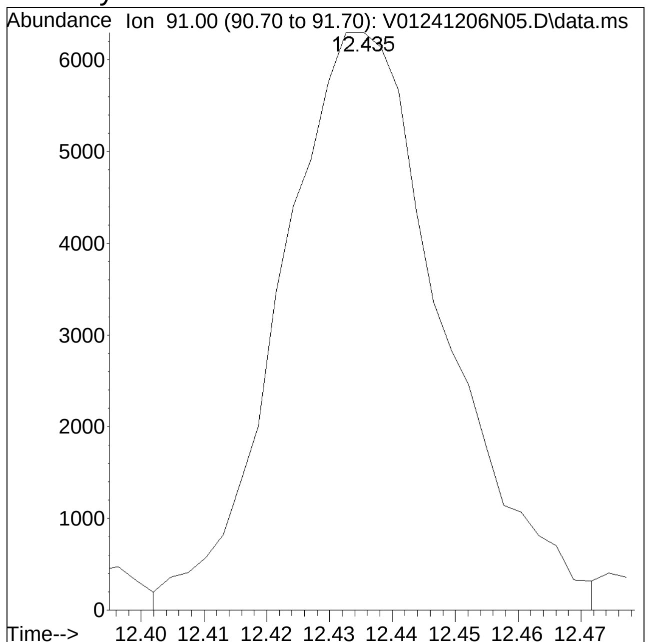
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path    : K:\VOA101\2024\241206NICALQMethod      : V101_241206N_8260.m
Data File    : V01241206N05.D                Operator     : VOA101:PID
Date Inj'd   : 12/7/2024  1:22 am            Instrument   : VOA 101
Sample       : I8260STD0.5PPB                Quant Date   : 12/9/2024  7:41 am
```

Compound #103: n-Butylbenzene




Original Peak Response = 10617        Manual Peak Response = 11324 M1

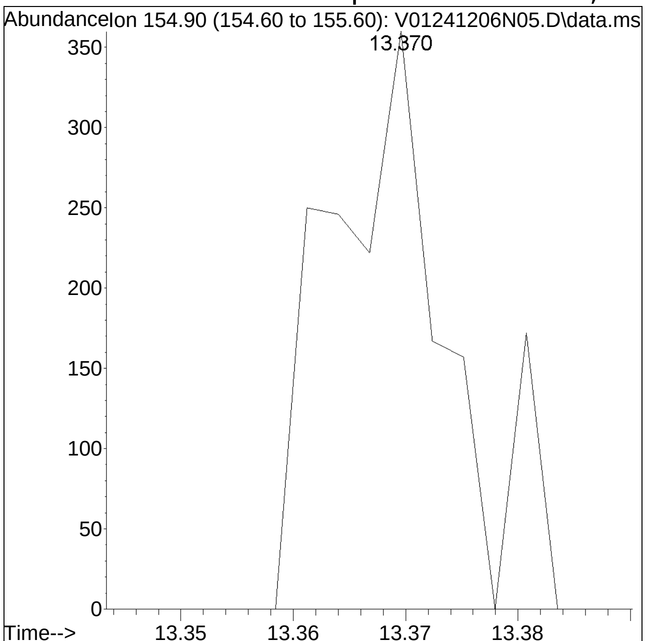
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

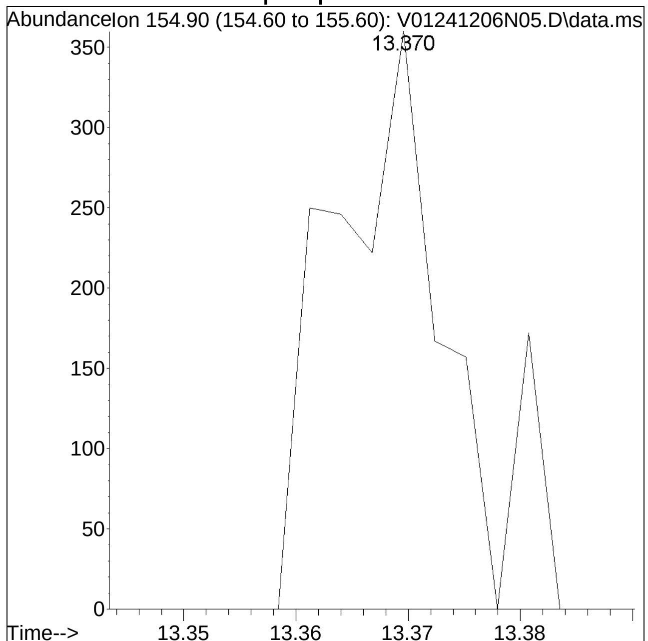
Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Data File : V01241206N05.D
Date Inj'd : 12/7/2024 1:22 am
Sample : I8260STD0.5PPB

Method : V101_241206N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 12/9/2024 7:41 am

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




Original Peak Response = 263

Manual Peak Response = 235 M6

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

Quantitation Report    (QT Reviewed)

```
Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N07.D
Acq On    :  7 Dec 2024   2:14 am
Operator  : VOA101:PID
Sample    : I8260STD2PPB
Misc      : WG2006865,ICAL
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Dec 09 07:41:41 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List     : 8260-Curve - Megamix plus Diox

        Compound                    R.T. QIon  Response  Conc Units Dev(Min)
 ------------------------------------------------------------------------------
 Internal Standards
 1) Fluorobenzene                 5.899   96    334971    10.000 ug/L     0.00
   Standard Area 1 = 319719                  Recovery   =  104.77%
59) Chlorobenzene-d5              9.415  117    262750    10.000 ug/L     0.00
   Standard Area 1 = 251130                  Recovery   =  104.63%
79) 1,4-Dichlorobenzene-d4       12.143  152    136130    10.000 ug/L     0.00
   Standard Area 1 = 133469                  Recovery   =  101.99%

 System Monitoring Compounds
36) Dibromofluoromethane          5.098  113     89608     9.906 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =   99.06%
43) 1,2-Dichloroethane-d4         5.620   65     97193     9.852 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =   98.52%
60) Toluene-d8                    7.572   98    335342    10.125 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =  101.25%
83) 4-Bromofluorobenzene         10.924   95    128303    10.152 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =  101.52%

 Target Compounds                                                   Qvalue
 2) Dichlorodifluoromethane       1.621   85      21321      2.053 ug/L      99
 3) Chloromethane                 1.811   50      22049      2.067 ug/L      99
 4) Vinyl chloride                1.875   62      23489      2.096 ug/L      98
 5) Bromomethane                  2.173   94      10313      1.833 ug/L      97
 6) Chloroethane                  2.285   64      14402      2.051 ug/L      93
 7) Trichlorofluoromethane        2.416  101      30391      2.086 ug/L      99
 8) Ethyl ether                   2.711   74       7851      2.023 ug/L      82
10) 1,1-Dichloroethene            2.887   96      17377      2.069 ug/L      92
11) Carbon disulfide              2.918   76      51673      2.009 ug/L      97
12) Freon-113                     2.926  101      18079      2.036 ug/L      80
13) Iodomethane                   3.024  142      17648      1.638 ug/L      98
14) Acrolein                      3.211   56       2082      1.902 ug/L      86
15) Methylene chloride            3.434   84      16240      1.996 ug/L      90
17) Acetone                       3.489   43       6321      2.342 ug/L #    60
18) trans-1,2-Dichloroethene      3.581   96      16726      2.034 ug/L      99
19) Methyl acetate                3.598   43       8961      2.026 ug/L #    89
20) Methyl tert-butyl ether       3.685   73      34639      1.972 ug/L      92
21) tert-Butyl alcohol            3.785   59       4270     10.083 ug/L #    56
22) Diisopropyl ether             4.036   45      58114      1.984 ug/L      98
23) 1,1-Dichloroethane            4.156   63      31639      2.004 ug/L      99
24) Halothane                     4.209  117      12772      1.985 ug/L      96
```

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N07.D
Acq On : 7 Dec 2024 2:14 am
Operator : VOA101:PID
Sample : I8260STD2PPB
Misc : WG2006865,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 09 07:41:41 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List : 8260-Curve - Megamix plus Diox

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 25) Acrylonitrile | 4.212 | 53 | 3299M3 | 1.981 ug/L | |
| 26) Ethyl tert-butyl ether | 4.373 | 59 | 47626 | 1.946 ug/L | 94 |
| 27) Vinyl acetate | 4.390 | 43 | 29555 | 2.054 ug/L # | 95 |
| 28) cis-1,2-Dichloroethene | 4.663 | 96 | 17919 | 1.995 ug/L | 95 |
| 29) 2,2-Dichloropropane | 4.758 | 77 | 26413 | 2.033 ug/L | 82 |
| 30) Bromochloromethane | 4.856 | 128 | 8388 | 2.012 ug/L | 93 |
| 31) Cyclohexane | 4.856 | 56 | 33341 | 2.001 ug/L | 92 |
| 32) Chloroform | 4.926 | 83 | 29072 | 1.988 ug/L | 96 |
| 33) Ethyl acetate | 5.043 | 43 | 10979 | 2.085 ug/L # | 79 |
| 34) Carbon tetrachloride | 5.059 | 117 | 23828 | 1.988 ug/L | 97 |
| 35) Tetrahydrofuran | 5.090 | 42 | 3343 | 2.154 ug/L | 89 |
| 37) 1,1,1-Trichloroethane | 5.121 | 97 | 26992 | 2.018 ug/L # | 87 |
| 39) 2-Butanone | 5.224 | 43 | 6287 | 1.914 ug/L # | 47 |
| 40) 1,1-Dichloropropene | 5.243 | 75 | 22870 | 2.004 ug/L | 96 |
| 41) Benzene | 5.483 | 78 | 64825 | 2.018 ug/L | 96 |
| 42) tert-Amyl methyl ether | 5.598 | 73 | 36665 | 1.932 ug/L # | 91 |
| 44) 1,2-Dichloroethane | 5.690 | 62 | 20940 | 1.986 ug/L | 96 |
| 47) Methyl cyclohexane | 6.069 | 83 | 29616 | 1.998 ug/L | 93 |
| 48) Trichloroethene | 6.077 | 95 | 17238 | 1.929 ug/L | 95 |
| 50) Dibromomethane | 6.518 | 93 | 8464 | 1.940 ug/L | 98 |
| 51) 1,2-Dichloropropane | 6.613 | 63 | 17211 | 2.001 ug/L | 98 |
| 53) 2-Chloroethyl vinyl ether | 7.315 | 63 | 6176M1 | 1.884 ug/L | |
| 54) Bromodichloromethane | 6.688 | 83 | 21423 | 1.931 ug/L # | 97 |
| 57) 1,4-Dioxane | 6.905 | 88 | 16729M1 | 374.811 ug/L | |
| 58) cis-1,3-Dichloropropene | 7.374 | 75 | 24723 | 1.947 ug/L # | 85 |
| 61) Toluene | 7.636 | 92 | 42469 | 2.010 ug/L | 99 |
| 62) 4-Methyl-2-pentanone | 8.068 | 58 | 3223M1 | 1.895 ug/L | |
| 63) Tetrachloroethene | 8.085 | 166 | 18004 | 2.028 ug/L | 98 |
| 65) trans-1,3-Dichloropropene | 8.121 | 75 | 19122 | 1.841 ug/L | 89 |
| 67) Ethyl methacrylate | 8.314 | 69 | 12139 | 1.825 ug/L | 89 |
| 68) 1,1,2-Trichloroethane | 8.305 | 83 | 9899 | 2.022 ug/L | 98 |
| 69) Chlorodibromomethane | 8.517 | 129 | 13847 | 1.841 ug/L | 92 |
| 70) 1,3-Dichloropropane | 8.620 | 76 | 19328 | 1.965 ug/L | 99 |
| 71) 1,2-Dibromoethane | 8.791 | 107 | 11482 | 2.010 ug/L | 96 |
| 72) 2-Hexanone | 9.092 | 43 | 5815 | 1.812 ug/L # | 60 |
| 73) Chlorobenzene | 9.438 | 112 | 47949 | 1.984 ug/L | 99 |
| 74) Ethylbenzene | 9.474 | 91 | 81368 | 1.952 ug/L | 98 |
| 75) 1,1,1,2-Tetrachloroethane | 9.516 | 131 | 16129 | 1.926 ug/L | 96 |
| 76) p/m Xylene | 9.661 | 106 | 64813 | 3.909 ug/L | 95 |
| 77) o Xylene | 10.204 | 106 | 61577 | 3.895 ug/L | 98 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N07.D
Acq On : 7 Dec 2024 2:14 am
Operator : VOA101:PID
Sample : I8260STD2PPB
Misc : WG2006865,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 09 07:41:41 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List : 8260-Curve - Megamix plus Diox

| | Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 78) | Styrene | 10.274 | 104 | 97268 | 3.718 ug/L | | 94 |
| 80) | Bromoform | 10.305 | 173 | 7097 | 1.843 ug/L | | 98 |
| 82) | Isopropylbenzene | 10.592 | 105 | 83595 | 2.017 ug/L | | 99 |
| 84) | Bromobenzene | 11.033 | 156 | 18737 | 2.060 ug/L | | 97 |
| 85) | n-Propylbenzene | 11.080 | 91 | 97053 | 2.037 ug/L | | 99 |
| 86) | 1,4-Dichlorobutane | 11.100 | 55 | 21332 | 1.991 ug/L | # | 82 |
| 87) | 1,1,2,2-Tetrachloroethane | 11.169 | 83 | 12715 | 1.989 ug/L | | 99 |
| 88) | 4-Ethyltoluene | 11.206 | 105 | 78526 | 1.983 ug/L | | 98 |
| 89) | 2-Chlorotoluene | 11.253 | 91 | 54808M1 | 2.005 ug/L | | |
| 90) | 1,3,5-Trimethylbenzene | 11.306 | 105 | 65277 | 1.932 ug/L | | 99 |
| 91) | 1,2,3-Trichloropropane | 11.309 | 75 | 9993M1 | 1.915 ug/L | | |
| 92) | trans-1,4-Dichloro-2-b... | 11.365 | 53 | 3927 | 1.913 ug/L | # | 62 |
| 93) | 4-Chlorotoluene | 11.437 | 91 | 55268 | 1.990 ug/L | | 99 |
| 94) | tert-Butylbenzene | 11.646 | 119 | 56446 | 1.974 ug/L | | 98 |
| 97) | 1,2,4-Trimethylbenzene | 11.730 | 105 | 64408 | 1.972 ug/L | | 100 |
| 98) | sec-Butylbenzene | 11.841 | 105 | 80569 | 1.952 ug/L | | 99 |
| 99) | p-Isopropyltoluene | 11.998 | 119 | 69021 | 1.965 ug/L | | 99 |
| 100) | 1,3-Dichlorobenzene | 12.064 | 146 | 33560 | 1.946 ug/L | | 99 |
| 101) | 1,4-Dichlorobenzene | 12.156 | 146 | 34132 | 1.957 ug/L | | 96 |
| 102) | p-Diethylbenzene | 12.371 | 119 | 38144 | 1.910 ug/L | | 99 |
| 103) | n-Butylbenzene | 12.433 | 91 | 54551 | 1.932 ug/L | | 100 |
| 104) | 1,2-Dichlorobenzene | 12.586 | 146 | 29700 | 1.980 ug/L | | 100 |
| 105) | 1,2,4,5-Tetramethylben... | 13.169 | 119 | 52275 | 1.890 ug/L | | 99 |
| 106) | 1,2-Dibromo-3-chloropr... | 13.364 | 155 | 1562 | 1.940 ug/L | | 98 |
| 107) | 1,3,5-Trichlorobenzene | 13.397 | 180 | 18954 | 1.960 ug/L | | 96 |
| 108) | Hexachlorobutadiene | 13.972 | 225 | 7063 | 1.979 ug/L | | 97 |
| 109) | 1,2,4-Trichlorobenzene | 14.000 | 180 | 15060 | 1.956 ug/L | | 98 |
| 110) | Naphthalene | 14.290 | 128 | 30226 | 1.927 ug/L | | 100 |
| 111) | 1,2,3-Trichlorobenzene | 14.457 | 180 | 11369 | 1.921 ug/L | | 98 |

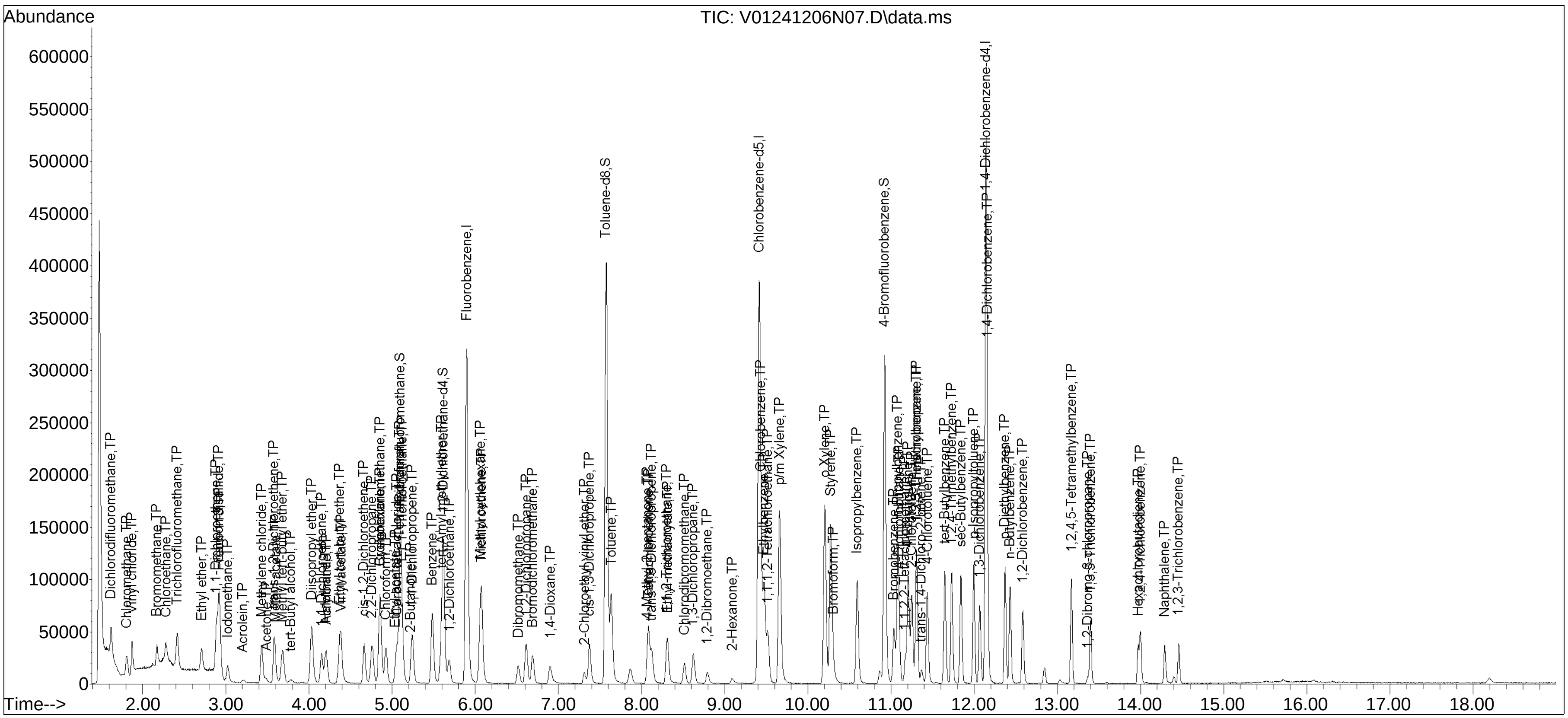
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N07.D
Acq On    :  7 Dec 2024   2:14 am
Operator  : VOA101:PID
Sample    : I8260STD2PPB
Misc      : WG2006865,ICAL
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Dec 09 07:41:41 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

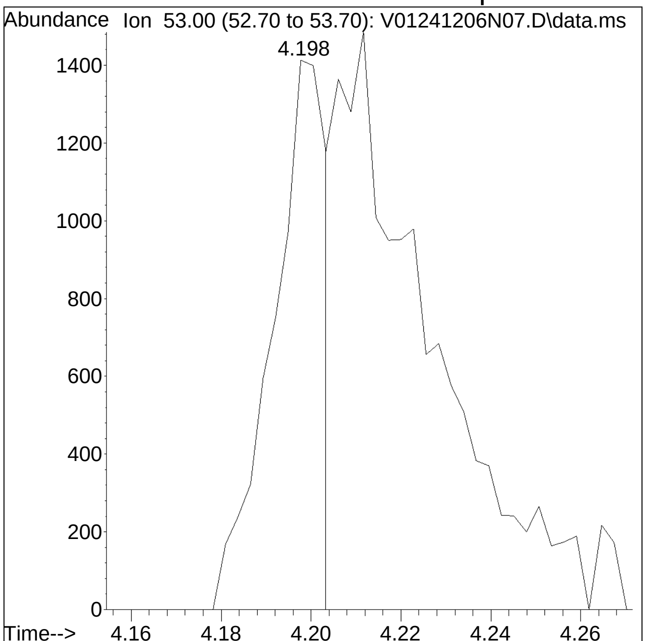
Sub List     : 8260-Curve - Megamix plus Diox\V01241206N09.D•

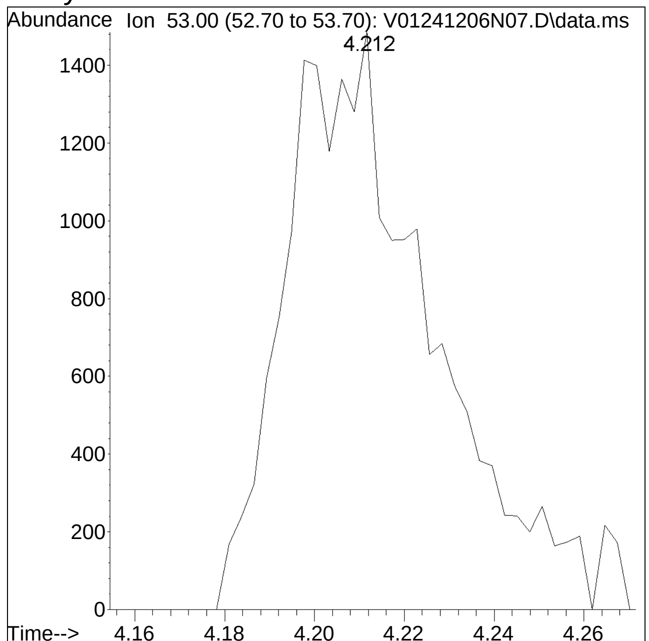


Manual Integration Report

```
Data Path    : K:\VOA101\2024\241206NICALQMethod     : V101_241206N_8260.m
Data File    : V01241206N07.D          Operator      : VOA101:PID
Date Inj'd   : 12/7/2024  2:14 am      Instrument    : VOA 101
Sample       : I8260STD2PPB            Quant Date    : 12/9/2024  7:41 am
```

Compound #25: Acrylonitrile



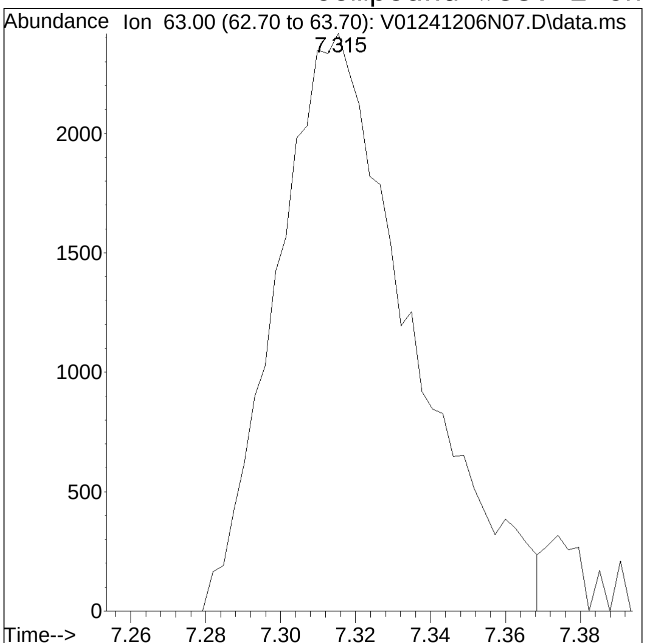

Original Peak Response = 1179          Manual Peak Response = 3299 M3

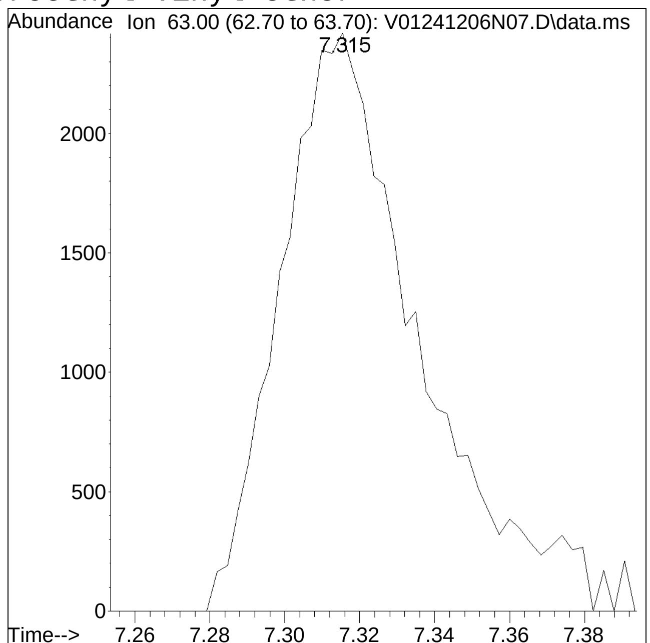
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQMethod : V101_241206N_8260.m
Data File : V01241206N07.D Operator : VOA101:PID
Date Inj'd : 12/7/2024 2:14 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 12/9/2024 7:41 am

Compound #53: 2-Chloroethyl vinyl ether



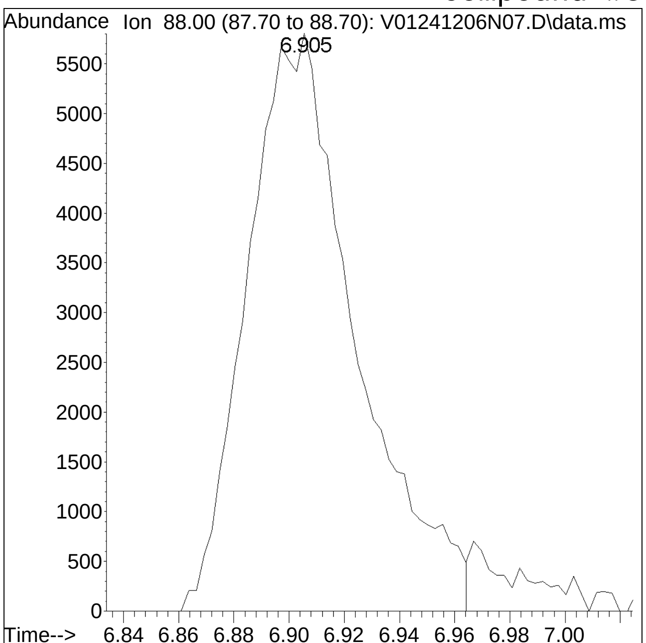

Original Peak Response = 5990 Manual Peak Response = 6176 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

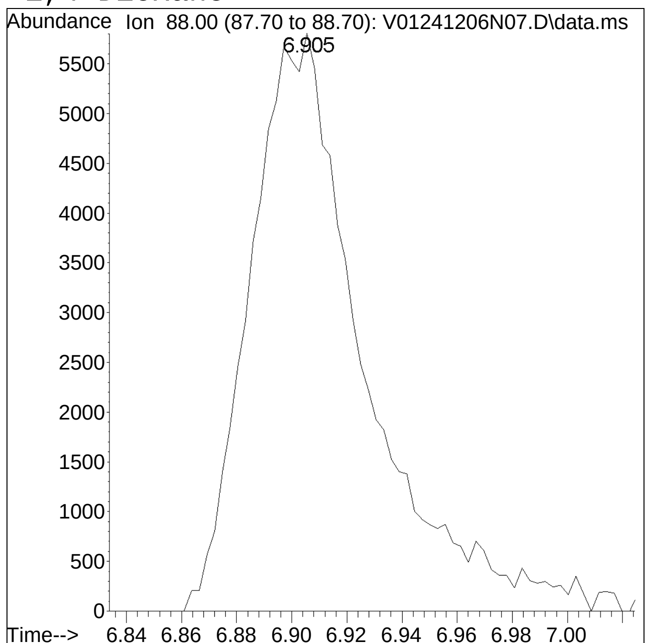
Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Data File : V01241206N07.D
Date Inj'd : 12/7/2024 2:14 am
Sample : I8260STD2PPB

Method : V101_241206N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 12/9/2024 7:41 am

Compound #57: 1,4-Dioxane



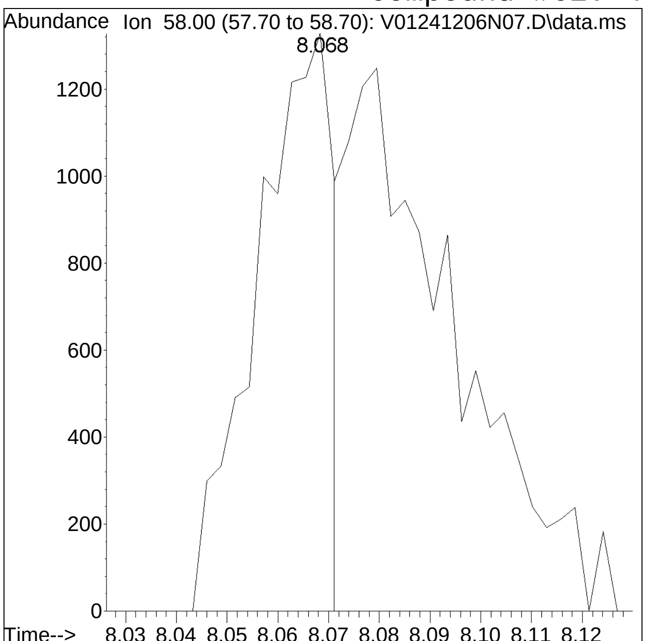

Original Peak Response = 15860 Manual Peak Response = 16729 M1

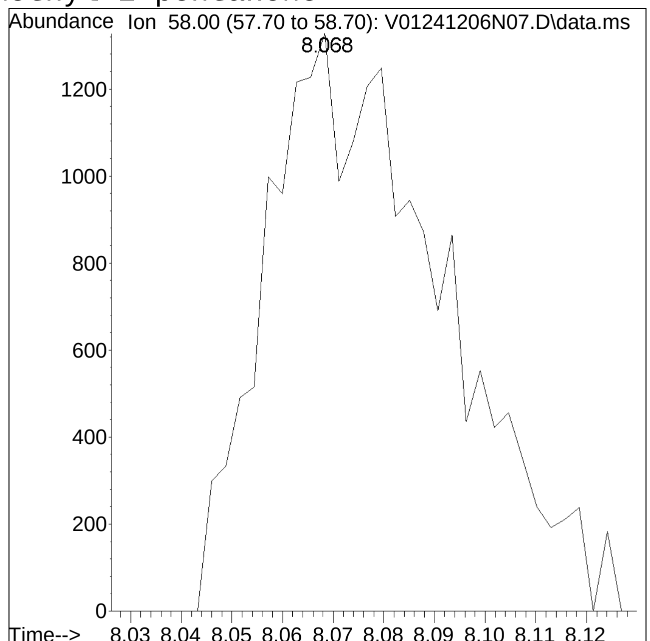
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Method : V101_241206N_8260.m
Data File : V01241206N07.D
Operator : VOA101:PID
Date Inj'd : 12/7/2024 2:14 am
Instrument : VOA 101
Sample : I8260STD2PPB
Quant Date : 12/9/2024 7:41 am

Compound #62: 4-Methyl-2-pentanone




Original Peak Response = 1398
Manual Peak Response = 3223 M1

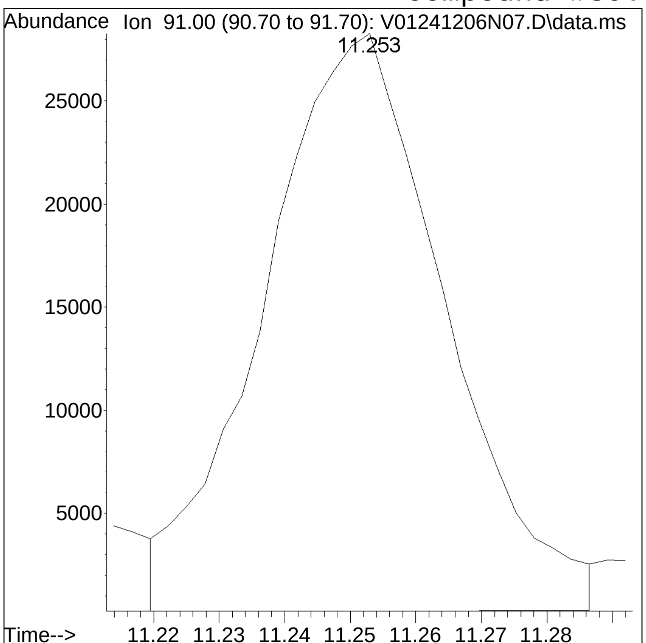
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

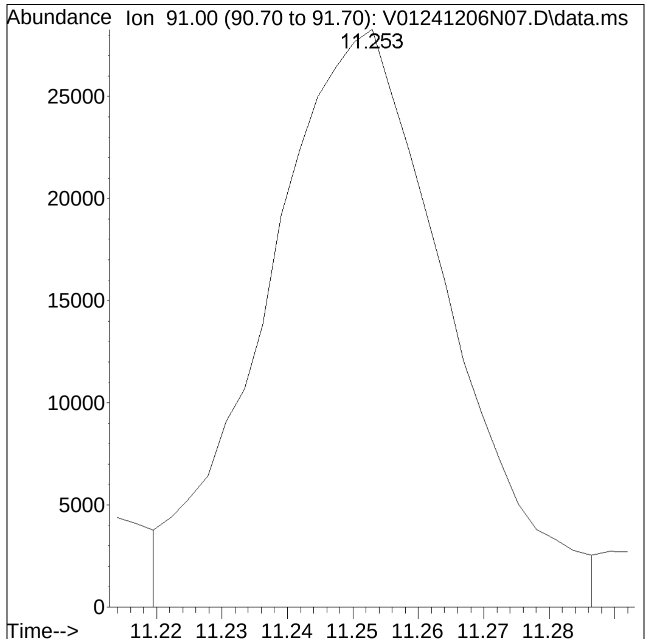
Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Data File : V01241206N07.D
Date Inj'd : 12/7/2024 2:14 am
Sample : I8260STD2PPB

Method : V101_241206N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 12/9/2024 7:41 am

Compound #89: 2-Chlorotoluene




Original Peak Response = 53726

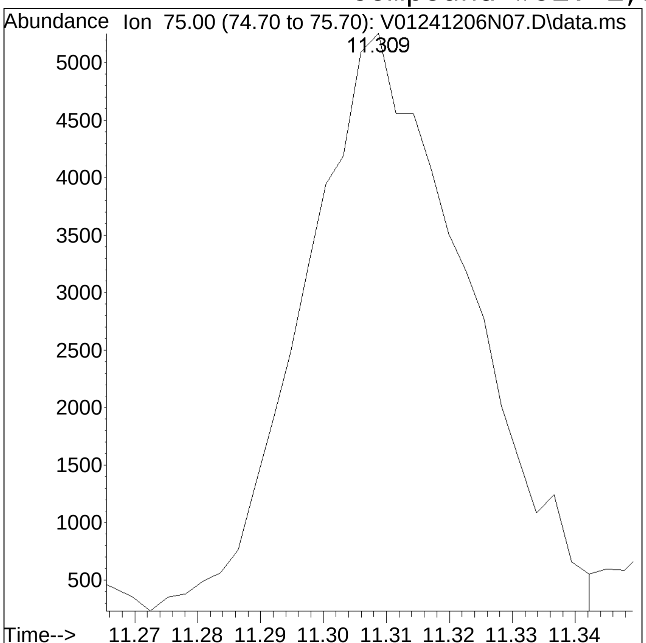
Manual Peak Response = 54808 M1

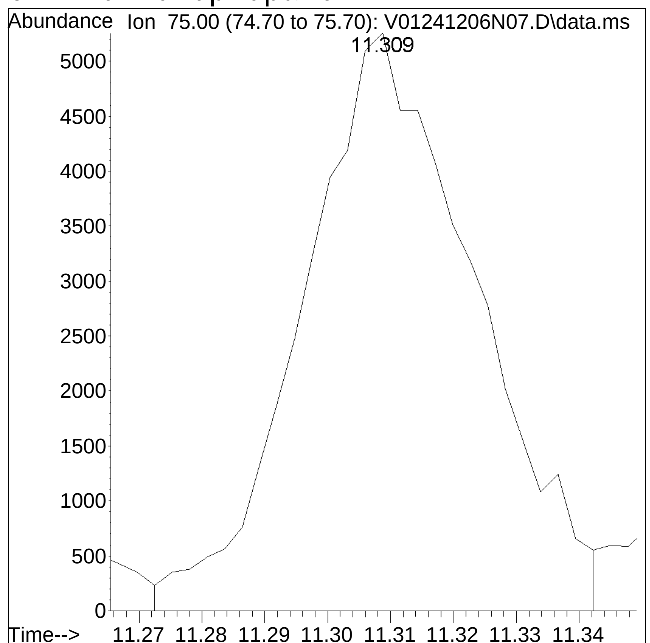
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

```
Data Path   : K:\VOA101\2024\241206NICALQMethod    : V101_241206N_8260.m
Data File   : V01241206N07.D              Operator    : VOA101:PID
Date Inj'd  : 12/7/2024  2:14 am          Instrument  : VOA 101
Sample      : I8260STD2PPB                Quant Date  : 12/9/2024  7:41 am
```

Compound #91: 1,2,3-Trichloropropane




Original Peak Response = 9023          Manual Peak Response = 9993 M1

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

Quantitation Report (QT Reviewed)

```
Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N09.D
Acq On    :  7 Dec 2024   3:06 am
Operator  : VOA101:PID
Sample    : I8260STD10PPB
Misc      : WG2006865,ICAL
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Dec 09 07:41:47 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List     : 8260-Curve - Megamix plus Diox

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ----------------------------------------------------------------------------
 Internal Standards
 1) Fluorobenzene                5.899   96    319719    10.000 ug/L     0.00
   Standard Area 1 = 319719                 Recovery   =  100.00%
59) Chlorobenzene-d5             9.412  117    251130    10.000 ug/L     0.00
   Standard Area 1 = 251130                 Recovery   =  100.00%
79) 1,4-Dichlorobenzene-d4      12.143  152    133469    10.000 ug/L     0.00
   Standard Area 1 = 133469                 Recovery   =  100.00%

 System Monitoring Compounds
36) Dibromofluoromethane         5.096  113     85220     9.870 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =   98.70%
43) 1,2-Dichloroethane-d4        5.620   65     92837     9.860 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =   98.60%
60) Toluene-d8                   7.575   98    319611    10.097 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =  100.97%
83) 4-Bromofluorobenzene        10.924   95    124833    10.074 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =  100.74%

 Target Compounds                                                   Qvalue
 2) Dichlorodifluoromethane      1.621   85     103205     10.412 ug/L      99
 3) Chloromethane                1.808   50     103493     10.166 ug/L      99
 4) Vinyl chloride               1.875   62     112733     10.540 ug/L      98
 5) Bromomethane                 2.173   94      51261      9.545 ug/L      98
 6) Chloroethane                 2.282   64      71790     10.709 ug/L      99
 7) Trichlorofluoromethane       2.419  101     147814     10.628 ug/L      98
 8) Ethyl ether                  2.711   74      37253     10.059 ug/L      80
10) 1,1-Dichloroethene           2.890   96      82813     10.332 ug/L      92
11) Carbon disulfide             2.920   76     242371      9.872 ug/L      99
12) Freon-113                    2.926  101      89068     10.508 ug/L      86
13) Iodomethane                  3.026  142     104163     10.128 ug/L      99
14) Acrolein                     3.208   56       9089      8.699 ug/L      96
15) Methylene chloride           3.431   84      76405      9.836 ug/L      87
17) Acetone                      3.481   43      15181      5.893 ug/L      96
18) trans-1,2-Dichloroethene     3.581   96      78641     10.019 ug/L      97
19) Methyl acetate               3.593   43      34367      8.141 ug/L      94
20) Methyl tert-butyl ether      3.685   73     166720      9.944 ug/L      93
21) tert-Butyl alcohol           3.782   59      20499     50.717 ug/L      89
22) Diisopropyl ether            4.033   45     280143     10.019 ug/L      98
23) 1,1-Dichloroethane           4.153   63     153436     10.182 ug/L      99
24) Halothane                    4.203  117      61755     10.057 ug/L      99
```

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N09.D
Acq On : 7 Dec 2024 3:06 am
Operator : VOA101:PID
Sample : I8260STD10PPB
Misc : WG2006865,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 09 07:41:47 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List : 8260-Curve - Megamix plus Diox

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 25) Acrylonitrile | 4.195 | 53 | 15915 | 10.013 ug/L | 100 |
| 26) Ethyl tert-butyl ether | 4.376 | 59 | 230012 | 9.848 ug/L | 91 |
| 27) Vinyl acetate | 4.385 | 43 | 127602 | 9.293 ug/L | 96 |
| 28) cis-1,2-Dichloroethene | 4.666 | 96 | 86854 | 10.133 ug/L | 97 |
| 29) 2,2-Dichloropropane | 4.758 | 77 | 120265 | 9.700 ug/L | 89 |
| 30) Bromochloromethane | 4.853 | 128 | 39586 | 9.947 ug/L | 94 |
| 31) Cyclohexane | 4.853 | 56 | 161521 | 10.155 ug/L | 93 |
| 32) Chloroform | 4.923 | 83 | 140354 | 10.056 ug/L | 96 |
| 33) Ethyl acetate | 5.037 | 43 | 51101 | 10.165 ug/L # | 82 |
| 34) Carbon tetrachloride | 5.057 | 117 | 117961 | 10.309 ug/L | 99 |
| 35) Tetrahydrofuran | 5.087 | 42 | 14686M1 | 9.914 ug/L | |
| 37) 1,1,1-Trichloroethane | 5.121 | 97 | 130187 | 10.199 ug/L | 97 |
| 39) 2-Butanone | 5.218 | 43 | 22699 | 7.238 ug/L # | 83 |
| 40) 1,1-Dichloropropene | 5.243 | 75 | 111894 | 10.273 ug/L | 98 |
| 41) Benzene | 5.483 | 78 | 312557 | 10.196 ug/L | 96 |
| 42) tert-Amyl methyl ether | 5.595 | 73 | 179097 | 9.889 ug/L | 93 |
| 44) 1,2-Dichloroethane | 5.687 | 62 | 101963 | 10.130 ug/L | 99 |
| 47) Methyl cyclohexane | 6.063 | 83 | 143719 | 10.159 ug/L | 90 |
| 48) Trichloroethene | 6.077 | 95 | 87235 | 10.229 ug/L | 96 |
| 50) Dibromomethane | 6.515 | 93 | 41580 | 9.986 ug/L | 98 |
| 51) 1,2-Dichloropropane | 6.613 | 63 | 83117 | 10.124 ug/L | 99 |
| 53) 2-Chloroethyl vinyl ether | 7.307 | 63 | 33365 | 10.666 ug/L | 94 |
| 54) Bromodichloromethane | 6.688 | 83 | 105911 | 10.001 ug/L | 100 |
| 57) 1,4-Dioxane | 6.900 | 88 | 21717M1 | 509.778 ug/L | |
| 58) cis-1,3-Dichloropropene | 7.374 | 75 | 120925 | 9.978 ug/L # | 88 |
| 61) Toluene | 7.633 | 92 | 207337 | 10.266 ug/L | 97 |
| 62) 4-Methyl-2-pentanone | 8.071 | 58 | 17668 | 10.870 ug/L | 97 |
| 63) Tetrachloroethene | 8.079 | 166 | 88066 | 10.381 ug/L | 98 |
| 65) trans-1,3-Dichloropropene | 8.118 | 75 | 99239 | 9.999 ug/L | 87 |
| 67) Ethyl methacrylate | 8.305 | 69 | 63545 | 9.993 ug/L | 96 |
| 68) 1,1,2-Trichloroethane | 8.305 | 83 | 47382 | 10.124 ug/L | 98 |
| 69) Chlorodibromomethane | 8.512 | 129 | 72266 | 10.050 ug/L | 99 |
| 70) 1,3-Dichloropropane | 8.618 | 76 | 96999 | 10.320 ug/L | 99 |
| 71) 1,2-Dibromoethane | 8.788 | 107 | 55741 | 10.211 ug/L | 98 |
| 72) 2-Hexanone | 9.078 | 43 | 31248 | 10.190 ug/L # | 89 |
| 73) Chlorobenzene | 9.435 | 112 | 234151 | 10.136 ug/L | 98 |
| 74) Ethylbenzene | 9.471 | 91 | 406926 | 10.216 ug/L | 98 |
| 75) 1,1,1,2-Tetrachloroethane | 9.518 | 131 | 81023 | 10.124 ug/L | 98 |
| 76) p/m Xylene | 9.658 | 106 | 322979 | 20.383 ug/L | 95 |
| 77) o Xylene | 10.202 | 106 | 307233 | 20.334 ug/L | 96 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N09.D
Acq On : 7 Dec 2024 3:06 am
Operator : VOA101:PID
Sample : I8260STD10PPB
Misc : WG2006865,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 09 07:41:47 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List : 8260-Curve - Megamix plus Diox

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 78) | Styrene | 10.271 | 104 | 503810 | 20.146 | ug/L | 98 |
| 80) | Bromoform | 10.299 | 173 | 37484 | 9.929 | ug/L | 100 |
| 82) | Isopropylbenzene | 10.592 | 105 | 417160 | 10.268 | ug/L | 100 |
| 84) | Bromobenzene | 11.033 | 156 | 90982 | 10.202 | ug/L | 98 |
| 85) | n-Propylbenzene | 11.080 | 91 | 477454 | 10.222 | ug/L | 99 |
| 86) | 1,4-Dichlorobutane | 11.097 | 55 | 101342 | 9.646 | ug/L | 97 |
| 87) | 1,1,2,2-Tetrachloroethane | 11.172 | 83 | 61642 | 9.833 | ug/L | 99 |
| 88) | 4-Ethyltoluene | 11.206 | 105 | 395404 | 10.185 | ug/L | 100 |
| 89) | 2-Chlorotoluene | 11.247 | 91 | 273642M1 | 10.211 | ug/L | |
| 90) | 1,3,5-Trimethylbenzene | 11.303 | 105 | 336118 | 10.145 | ug/L | 99 |
| 91) | 1,2,3-Trichloropropane | 11.306 | 75 | 51613M1 | 10.088 | ug/L | |
| 92) | trans-1,4-Dichloro-2-b... | 11.364 | 53 | 19940M4 | 9.909 | ug/L | |
| 93) | 4-Chlorotoluene | 11.431 | 91 | 277881 | 10.206 | ug/L | 100 |
| 94) | tert-Butylbenzene | 11.646 | 119 | 287781 | 10.264 | ug/L | 99 |
| 97) | 1,2,4-Trimethylbenzene | 11.727 | 105 | 325948 | 10.181 | ug/L | 100 |
| 98) | sec-Butylbenzene | 11.839 | 105 | 415536 | 10.268 | ug/L | 99 |
| 99) | p-Isopropyltoluene | 11.995 | 119 | 354452 | 10.291 | ug/L | 98 |
| 100) | 1,3-Dichlorobenzene | 12.067 | 146 | 172420 | 10.199 | ug/L | 99 |
| 101) | 1,4-Dichlorobenzene | 12.156 | 146 | 173427 | 10.140 | ug/L | 99 |
| 102) | p-Diethylbenzene | 12.371 | 119 | 200052 | 10.218 | ug/L | 99 |
| 103) | n-Butylbenzene | 12.430 | 91 | 280763 | 10.142 | ug/L | 99 |
| 104) | 1,2-Dichlorobenzene | 12.580 | 146 | 150015 | 10.201 | ug/L | 99 |
| 105) | 1,2,4,5-Tetramethylben... | 13.169 | 119 | 273019 | 10.069 | ug/L | 99 |
| 106) | 1,2-Dibromo-3-chloropr... | 13.367 | 155 | 7756 | 9.824 | ug/L | 92 |
| 107) | 1,3,5-Trichlorobenzene | 13.400 | 180 | 94631 | 9.980 | ug/L | 98 |
| 108) | Hexachlorobutadiene | 13.972 | 225 | 33603 | 9.601 | ug/L | 98 |
| 109) | 1,2,4-Trichlorobenzene | 13.997 | 180 | 76049 | 10.073 | ug/L | 98 |
| 110) | Naphthalene | 14.290 | 128 | 152789 | 9.934 | ug/L | 100 |
| 111) | 1,2,3-Trichlorobenzene | 14.460 | 180 | 57793 | 9.959 | ug/L | 99 |

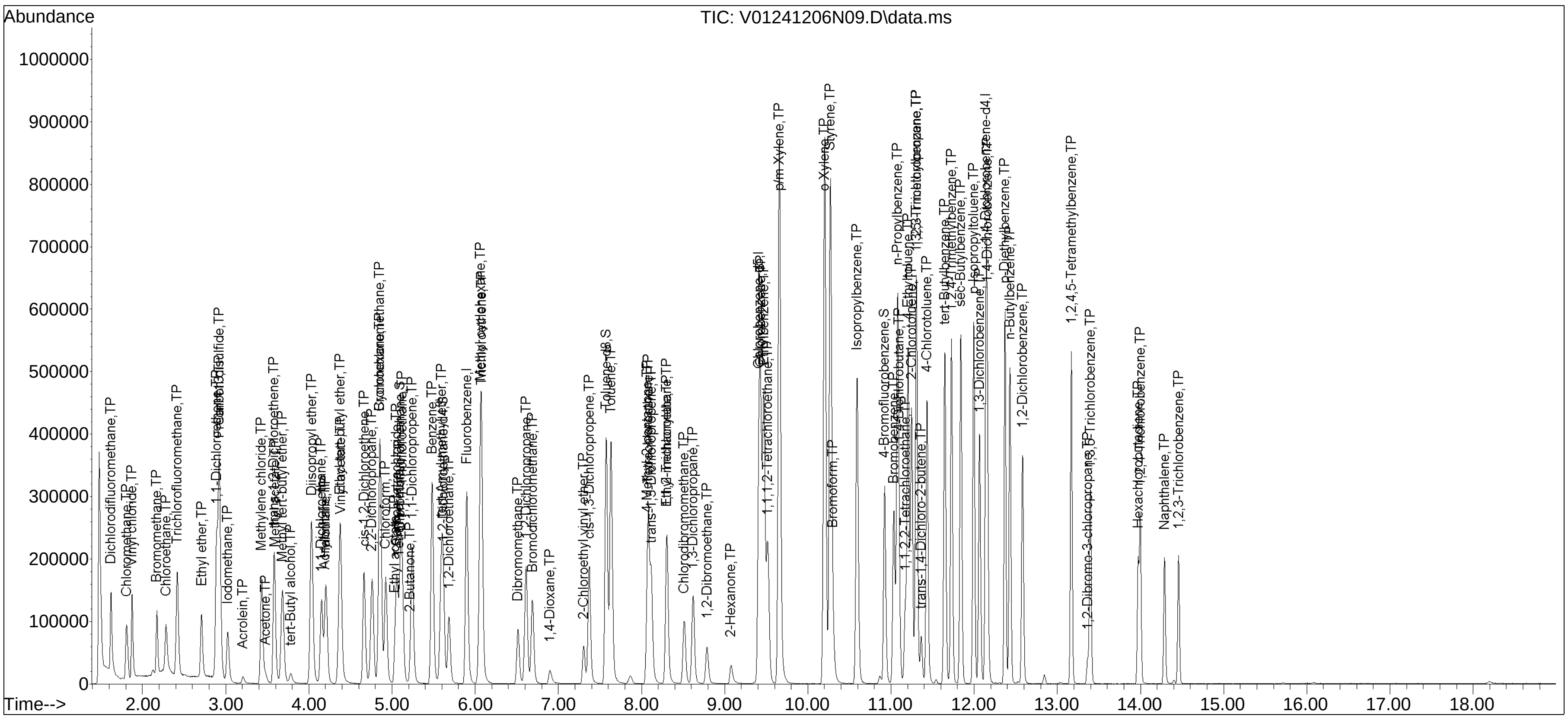
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N09.D
Acq On    :  7 Dec 2024   3:06 am
Operator  : VOA101:PID
Sample    : I8260STD10PPB
Misc      : WG2006865,ICAL
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Dec 09 07:41:47 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

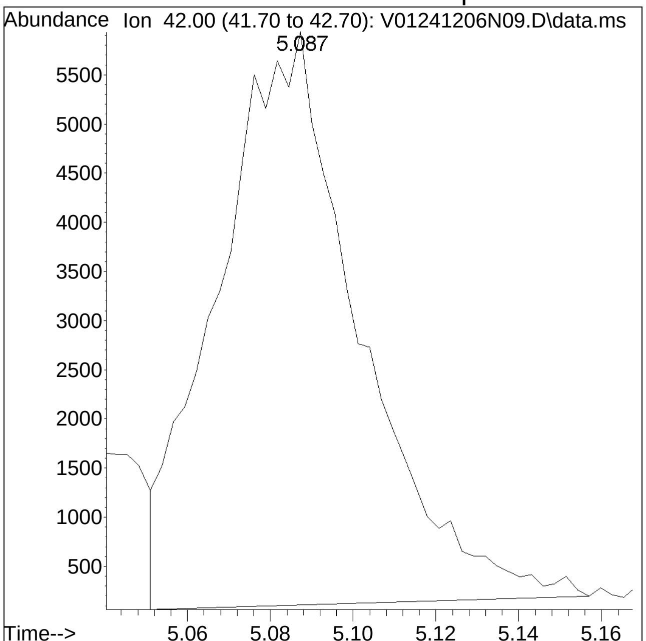
Sub List     : 8260-Curve - Megamix plus Diox\V01241206N09.D•

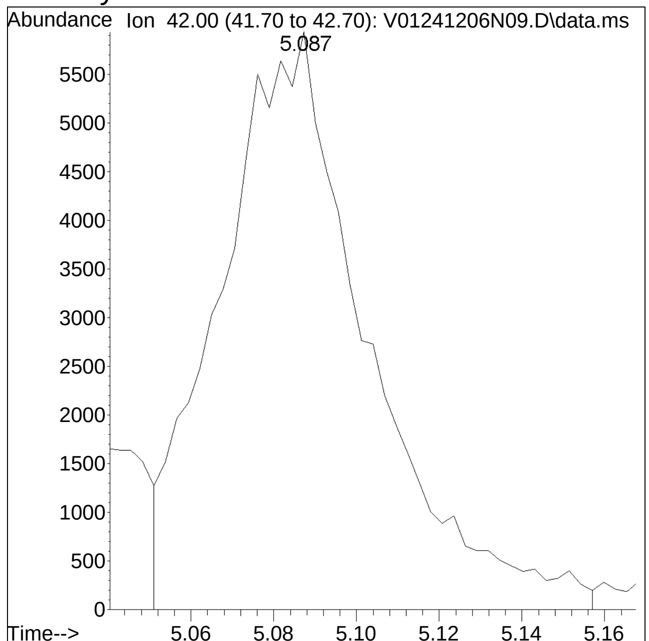


Manual Integration Report

```
Data Path    : K:\VOA101\2024\241206NICALQMethod     : V101_241206N_8260.m
Data File    : V01241206N09.D           Operator     : VOA101:PID
Date Inj'd   : 12/7/2024  3:06 am       Instrument   : VOA 101
Sample       : I8260STD10PPB            Quant Date   : 12/9/2024  7:41 am
```

Compound #35: Tetrahydrofuran




Original Peak Response = 13866        Manual Peak Response = 14686 M1

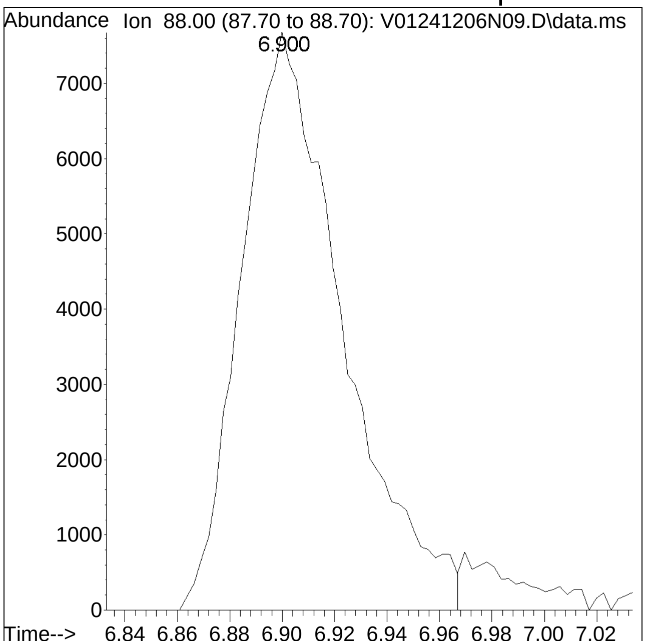
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

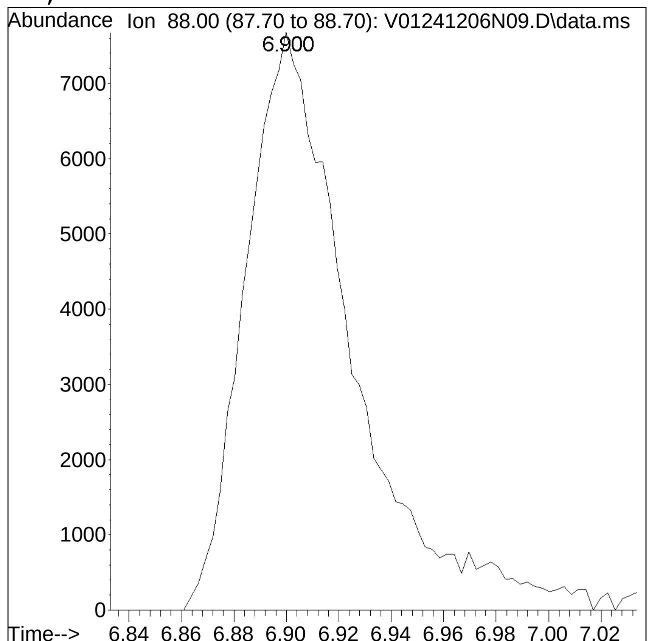
Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Data File : V01241206N09.D
Date Inj'd : 12/7/2024 3:06 am
Sample : I8260STD10PPB

Method : V101_241206N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 12/9/2024 7:41 am

Compound #57: 1,4-Dioxane




Original Peak Response = 20567

Manual Peak Response = 21717 M1

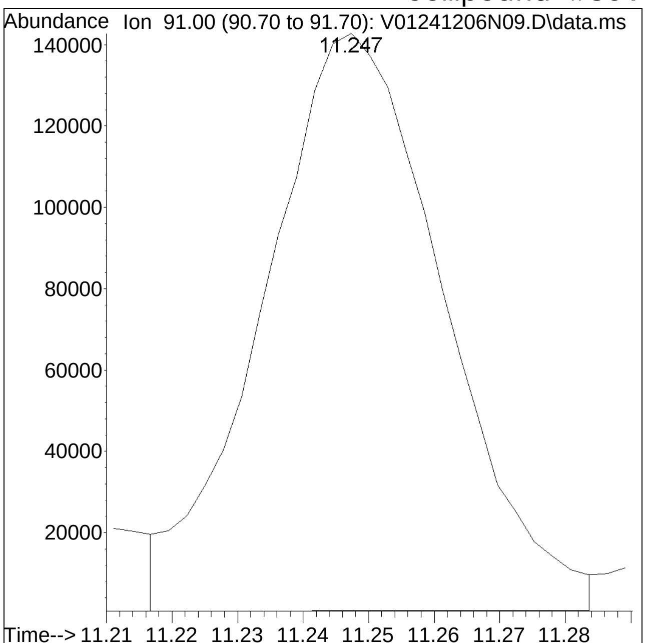
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

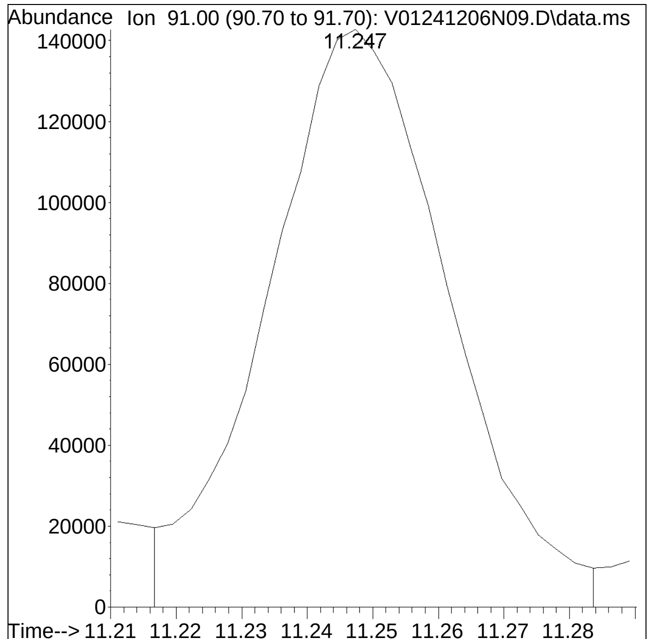
Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Data File : V01241206N09.D
Date Inj'd : 12/7/2024 3:06 am
Sample : I8260STD10PPB

Method : V101_241206N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 12/9/2024 7:41 am

Compound #89: 2-Chlorotoluene




Original Peak Response = 270267

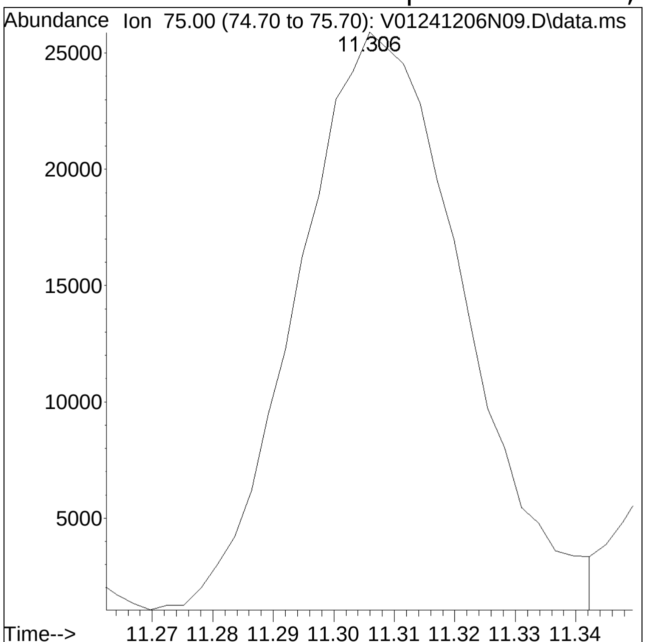
Manual Peak Response = 273642 M1

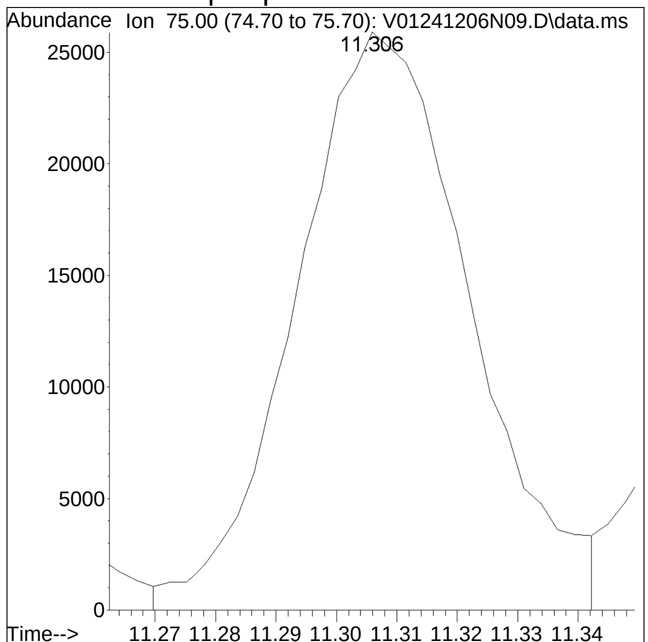
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

```
Data Path   : K:\VOA101\2024\241206NICALQMethod     : V101_241206N_8260.m
Data File   : V01241206N09.D             Operator    : VOA101:PID
Date Inj'd  : 12/7/2024  3:06 am         Instrument  : VOA 101
Sample      : I8260STD10PPB              Quant Date  : 12/9/2024  7:41 am
```

Compound #91: 1,2,3-Trichloropropane




Original Peak Response = 47019      Manual Peak Response = 51613 M1

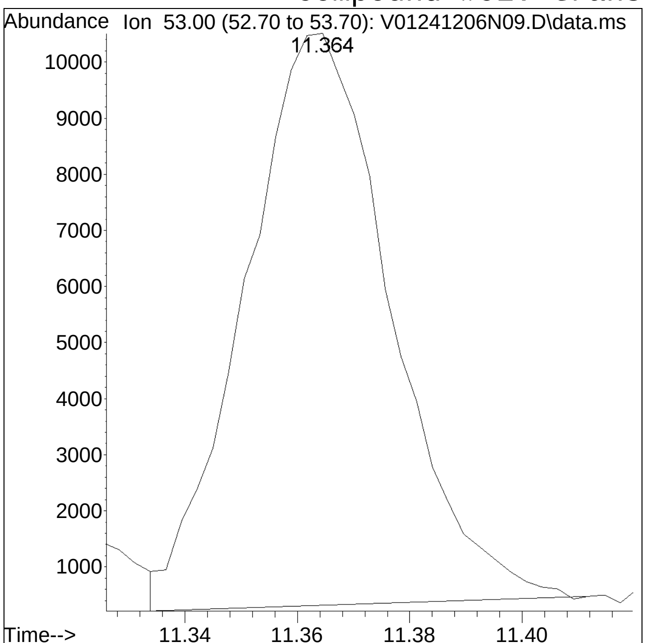
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

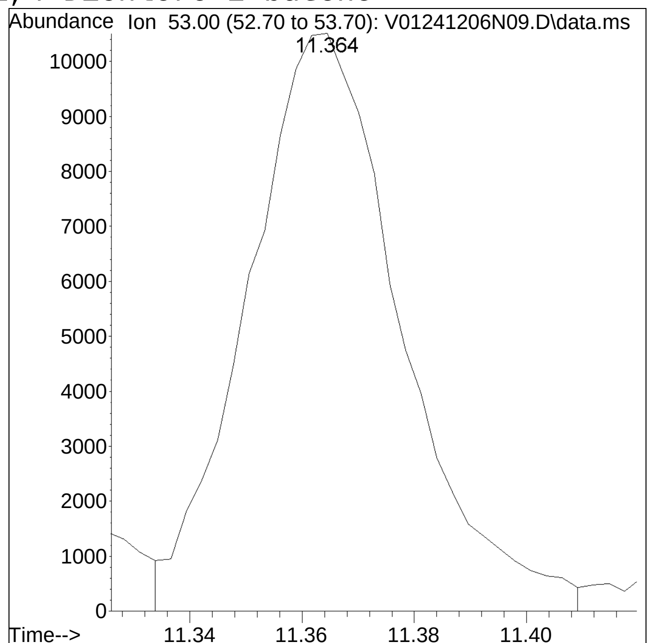
Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Data File : V01241206N09.D
Date Inj'd : 12/7/2024 3:06 am
Sample : I8260STD10PPB

Method : V101_241206N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 12/9/2024 7:41 am

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




Original Peak Response = 18397

Manual Peak Response = 19940 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

```
Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N10.D
Acq On    :  7 Dec 2024   3:32 am
Operator  : VOA101:PID
Sample    : I8260STD30PPB
Misc      : WG2006865,ICAL
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Dec 09 07:41:54 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List     : 8260-Curve - Megamix plus Diox

       Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) Fluorobenzene               5.896   96    318959    10.000 ug/L     0.00
   Standard Area 1 = 319719                 Recovery   =   99.76%
59) Chlorobenzene-d5            9.415  117    254447    10.000 ug/L     0.00
   Standard Area 1 = 251130                 Recovery   =  101.32%
79) 1,4-Dichlorobenzene-d4     12.143  152    138900    10.000 ug/L     0.00
   Standard Area 1 = 133469                 Recovery   =  104.07%

 System Monitoring Compounds
36) Dibromofluoromethane        5.101  113     85455     9.921 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   99.21%
43) 1,2-Dichloroethane-d4       5.620   65     92550     9.853 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   98.53%
60) Toluene-d8                  7.578   98    321949    10.038 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =  100.38%
83) 4-Bromofluorobenzene       10.921   95    126557     9.814 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   98.14%

 Target Compounds                                                   Qvalue
 2) Dichlorodifluoromethane     1.621   85     313890     31.744 ug/L      99
 3) Chloromethane               1.811   50     314002     30.918 ug/L     100
 4) Vinyl chloride              1.875   62     343234     32.167 ug/L     100
 5) Bromomethane                2.176   94     162060     30.249 ug/L     100
 6) Chloroethane                2.285   64     218539     32.678 ug/L      97
 7) Trichlorofluoromethane      2.419  101     449268     32.380 ug/L      99
 8) Ethyl ether                 2.714   74     111496     30.177 ug/L      81
10) 1,1-Dichloroethene          2.893   96     249237     31.168 ug/L      90
11) Carbon disulfide            2.921   76     754401     30.802 ug/L     100
12) Freon-113                   2.926  101     272916     32.275 ug/L      84
13) Iodomethane                 3.026  142     347387     33.858 ug/L      99
14) Acrolein                    3.208   56      27260     26.152 ug/L      99
15) Methylene chloride          3.431   84     226968     29.290 ug/L      88
17) Acetone                     3.481   43      41121     16.001 ug/L      95
18) trans-1,2-Dichloroethene    3.581   96     238687     30.482 ug/L      96
19) Methyl acetate              3.593   43     104720     24.867 ug/L      94
20) Methyl tert-butyl ether     3.682   73     501906     30.006 ug/L      95
21) tert-Butyl alcohol          3.788   59      61398    152.267 ug/L #    77
22) Diisopropyl ether           4.030   45     840126     30.119 ug/L      98
23) 1,1-Dichloroethane          4.150   63     462115     30.739 ug/L      99
24) Halothane                   4.206  117     192018     31.345 ug/L      98
```

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N10.D
Acq On : 7 Dec 2024 3:32 am
Operator : VOA101:PID
Sample : I8260STD30PPB
Misc : WG2006865,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 09 07:41:54 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List : 8260-Curve - Megamix plus Diox

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 25) Acrylonitrile | 4.198 | 53 | 48396 | 30.521 ug/L | 98 |
| 26) Ethyl tert-butyl ether | 4.373 | 59 | 698700 | 29.986 ug/L | 90 |
| 27) Vinyl acetate | 4.382 | 43 | 379794 | 27.724 ug/L | 96 |
| 28) cis-1,2-Dichloroethene | 4.666 | 96 | 261754 | 30.611 ug/L | 97 |
| 29) 2,2-Dichloropropane | 4.761 | 77 | 389318 | 31.475 ug/L | 90 |
| 30) Bromochloromethane | 4.850 | 128 | 121482 | 30.597 ug/L | 95 |
| 31) Cyclohexane | 4.859 | 56 | 490174 | 30.892 ug/L | 93 |
| 32) Chloroform | 4.926 | 83 | 427968 | 30.735 ug/L | 98 |
| 33) Ethyl acetate | 5.034 | 43 | 153285 | 30.566 ug/L | 96 |
| 34) Carbon tetrachloride | 5.057 | 117 | 367012 | 32.151 ug/L | 99 |
| 35) Tetrahydrofuran | 5.079 | 42 | 42362M1 | 28.666 ug/L | |
| 37) 1,1,1-Trichloroethane | 5.121 | 97 | 396776 | 31.159 ug/L | 98 |
| 39) 2-Butanone | 5.213 | 43 | 65120 | 20.815 ug/L # | 82 |
| 40) 1,1-Dichloropropene | 5.243 | 75 | 341473 | 31.427 ug/L | 98 |
| 41) Benzene | 5.483 | 78 | 951433 | 31.111 ug/L | 96 |
| 42) tert-Amyl methyl ether | 5.595 | 73 | 541419 | 29.967 ug/L | 94 |
| 44) 1,2-Dichloroethane | 5.684 | 62 | 305289 | 30.403 ug/L | 98 |
| 47) Methyl cyclohexane | 6.063 | 83 | 437449 | 30.997 ug/L | 91 |
| 48) Trichloroethene | 6.074 | 95 | 265195 | 31.172 ug/L | 96 |
| 50) Dibromomethane | 6.509 | 93 | 128792 | 31.006 ug/L | 96 |
| 51) 1,2-Dichloropropane | 6.613 | 63 | 252217 | 30.795 ug/L | 98 |
| 53) 2-Chloroethyl vinyl ether | 7.299 | 63 | 98384 | 31.527 ug/L | 94 |
| 54) Bromodichloromethane | 6.688 | 83 | 320820 | 30.368 ug/L | 99 |
| 57) 1,4-Dioxane | 6.903 | 88 | 26656M1 | 627.205 ug/L | |
| 58) cis-1,3-Dichloropropene | 7.368 | 75 | 372920 | 30.845 ug/L # | 88 |
| 61) Toluene | 7.633 | 92 | 627697 | 30.673 ug/L | 98 |
| 62) 4-Methyl-2-pentanone | 8.063 | 58 | 53875 | 32.714 ug/L | 95 |
| 63) Tetrachloroethene | 8.082 | 166 | 268497 | 31.237 ug/L | 98 |
| 65) trans-1,3-Dichloropropene | 8.116 | 75 | 313766 | 31.201 ug/L | 88 |
| 67) Ethyl methacrylate | 8.305 | 69 | 201775 | 31.319 ug/L | 99 |
| 68) 1,1,2-Trichloroethane | 8.300 | 83 | 142422 | 30.034 ug/L | 96 |
| 69) Chlorodibromomethane | 8.512 | 129 | 223982 | 30.743 ug/L | 99 |
| 70) 1,3-Dichloropropane | 8.620 | 76 | 292212 | 30.683 ug/L | 99 |
| 71) 1,2-Dibromoethane | 8.785 | 107 | 171032 | 30.923 ug/L | 100 |
| 72) 2-Hexanone | 9.072 | 43 | 97619 | 31.417 ug/L | 99 |
| 73) Chlorobenzene | 9.435 | 112 | 714759 | 30.536 ug/L | 97 |
| 74) Ethylbenzene | 9.468 | 91 | 1254655 | 31.088 ug/L | 98 |
| 75) 1,1,1,2-Tetrachloroethane | 9.516 | 131 | 251187 | 30.978 ug/L | 99 |
| 76) p/m Xylene | 9.655 | 106 | 1003082 | 62.480 ug/L | 95 |
| 77) o Xylene | 10.202 | 106 | 958875 | 62.634 ug/L | 95 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N10.D
Acq On : 7 Dec 2024 3:32 am
Operator : VOA101:PID
Sample : I8260STD30PPB
Misc : WG2006865,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 09 07:41:54 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List : 8260-Curve - Megamix plus Diox

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 78) Styrene | 10.271 | 104 | 1612841 | 63.654 ug/L | 98 |
| 80) Bromoform | 10.299 | 173 | 122589 | 31.202 ug/L | 100 |
| 82) Isopropylbenzene | 10.592 | 105 | 1307223 | 30.919 ug/L | 100 |
| 84) Bromobenzene | 11.033 | 156 | 280580 | 30.232 ug/L | 99 |
| 85) n-Propylbenzene | 11.077 | 91 | 1495674 | 30.769 ug/L | 98 |
| 86) 1,4-Dichlorobutane | 11.097 | 55 | 311272 | 28.470 ug/L | 97 |
| 87) 1,1,2,2-Tetrachloroethane | 11.169 | 83 | 192692 | 29.537 ug/L | 99 |
| 88) 4-Ethyltoluene | 11.206 | 105 | 1246952 | 30.863 ug/L | 100 |
| 89) 2-Chlorotoluene | 11.247 | 91 | 849408M1 | 30.457 ug/L | |
| 90) 1,3,5-Trimethylbenzene | 11.306 | 105 | 1057515 | 30.669 ug/L | 100 |
| 91) 1,2,3-Trichloropropane | 11.309 | 75 | 157880M4 | 29.653 ug/L | |
| 92) trans-1,4-Dichloro-2-b... | 11.359 | 53 | 63548M1 | 30.343 ug/L | |
| 93) 4-Chlorotoluene | 11.431 | 91 | 864885 | 30.523 ug/L | 99 |
| 94) tert-Butylbenzene | 11.649 | 119 | 897973 | 30.774 ug/L | 99 |
| 97) 1,2,4-Trimethylbenzene | 11.727 | 105 | 1017803 | 30.547 ug/L | 100 |
| 98) sec-Butylbenzene | 11.839 | 105 | 1305937 | 31.009 ug/L | 99 |
| 99) p-Isopropyltoluene | 11.995 | 119 | 1122431 | 31.315 ug/L | 98 |
| 100) 1,3-Dichlorobenzene | 12.062 | 146 | 538456 | 30.605 ug/L | 99 |
| 101) 1,4-Dichlorobenzene | 12.156 | 146 | 536915 | 30.166 ug/L | 99 |
| 102) p-Diethylbenzene | 12.371 | 119 | 637541 | 31.291 ug/L | 99 |
| 103) n-Butylbenzene | 12.430 | 91 | 897348 | 31.146 ug/L | 99 |
| 104) 1,2-Dichlorobenzene | 12.583 | 146 | 468490 | 30.612 ug/L | 99 |
| 105) 1,2,4,5-Tetramethylben... | 13.169 | 119 | 860904 | 30.509 ug/L | 100 |
| 106) 1,2-Dibromo-3-chloropr... | 13.364 | 155 | 25850 | 31.462 ug/L | 98 |
| 107) 1,3,5-Trichlorobenzene | 13.395 | 180 | 299441 | 30.345 ug/L | 98 |
| 108) Hexachlorobutadiene | 13.972 | 225 | 106197 | 29.155 ug/L | 98 |
| 109) 1,2,4-Trichlorobenzene | 13.994 | 180 | 235787 | 30.011 ug/L | 98 |
| 110) Naphthalene | 14.287 | 128 | 477224 | 29.816 ug/L | 100 |
| 111) 1,2,3-Trichlorobenzene | 14.457 | 180 | 179403 | 29.706 ug/L | 99 |

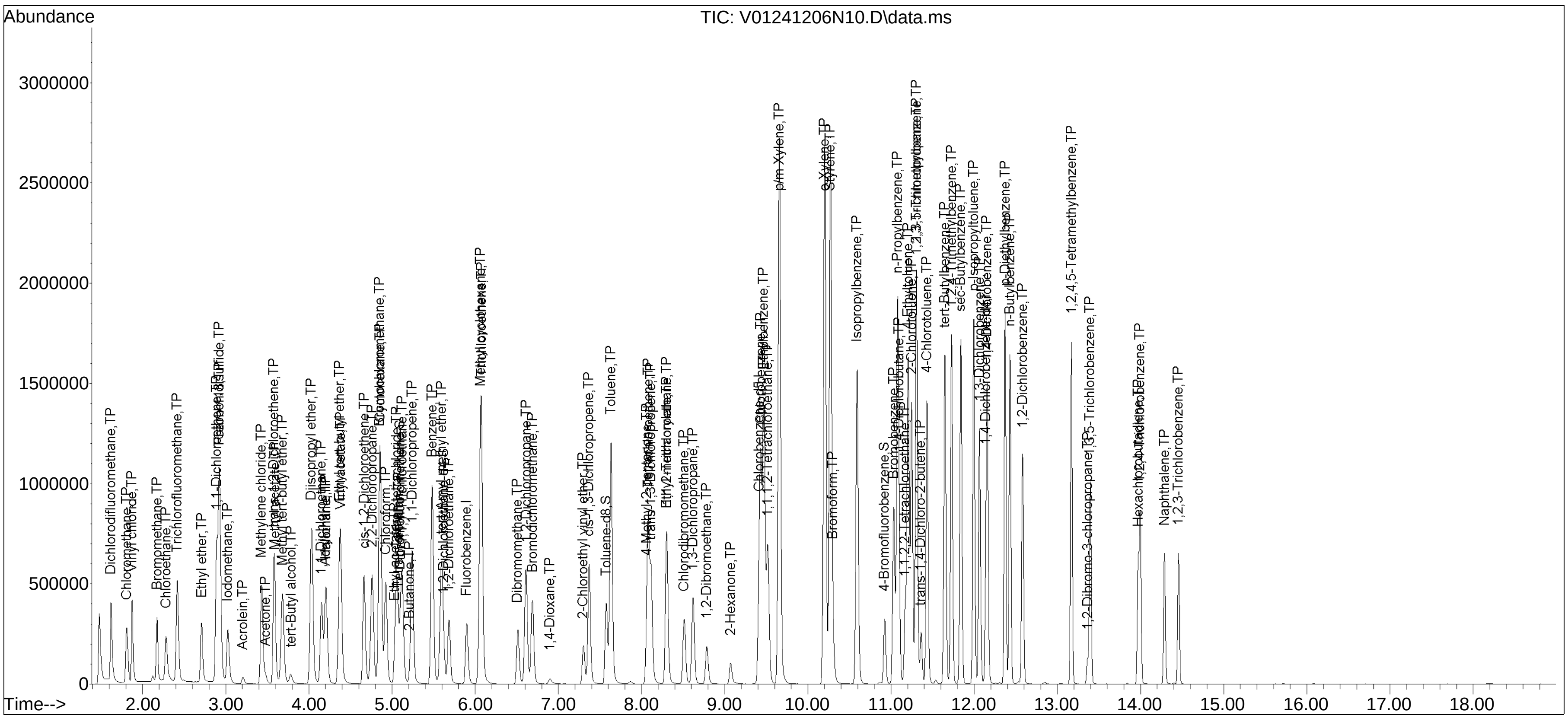
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N10.D
Acq On    :  7 Dec 2024   3:32 am
Operator  : VOA101:PID
Sample    : I8260STD30PPB
Misc      : WG2006865,ICAL
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Dec 09 07:41:54 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

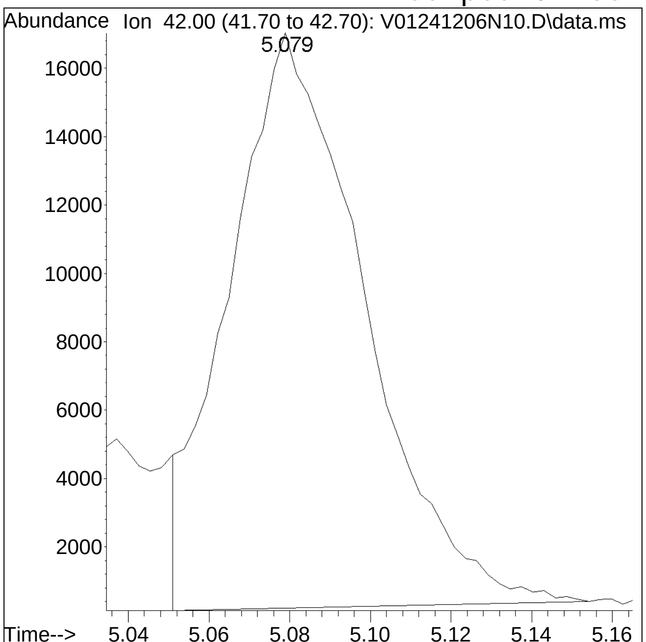
Sub List     : 8260-Curve - Megamix plus Diox\V01241206N09.D•

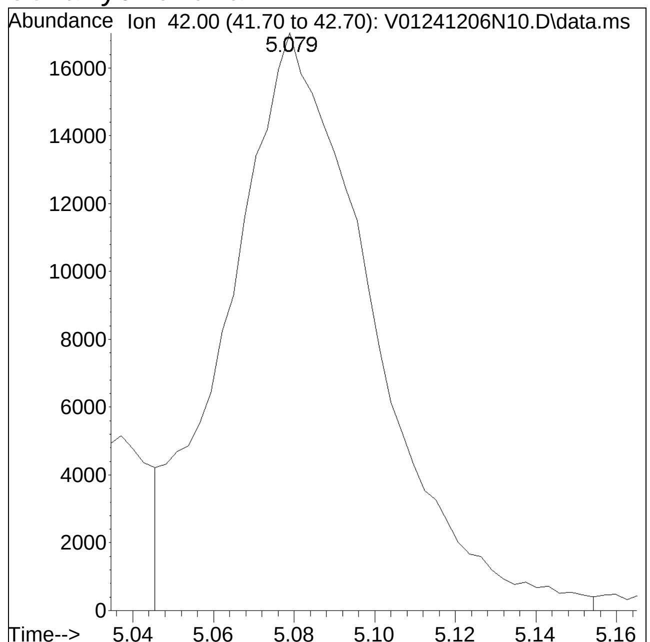


Manual Integration Report

```
Data Path    : K:\VOA101\2024\241206NICALQMethod     : V101_241206N_8260.m
Data File    : V01241206N10.D           Operator     : VOA101:PID
Date Inj'd   : 12/7/2024  3:32 am       Instrument   : VOA 101
Sample       : I8260STD30PPB            Quant Date   : 12/9/2024  7:41 am
```

Compound #35: Tetrahydrofuran



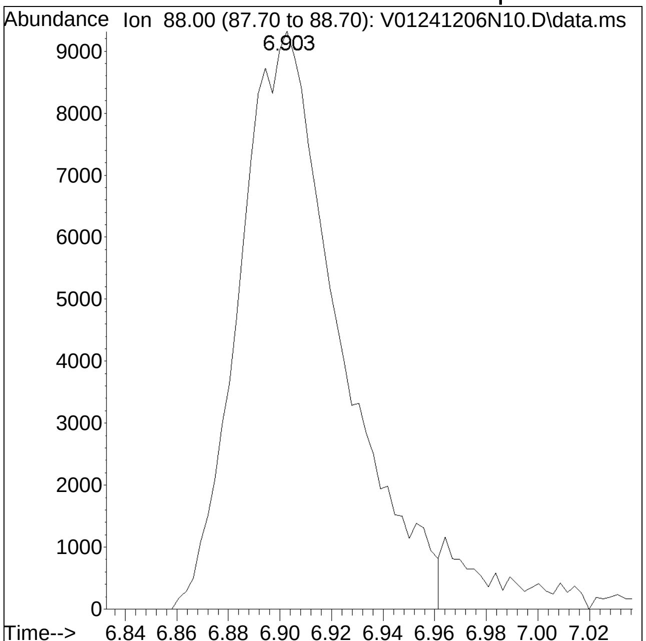

Original Peak Response = 39183        Manual Peak Response = 42362 M1

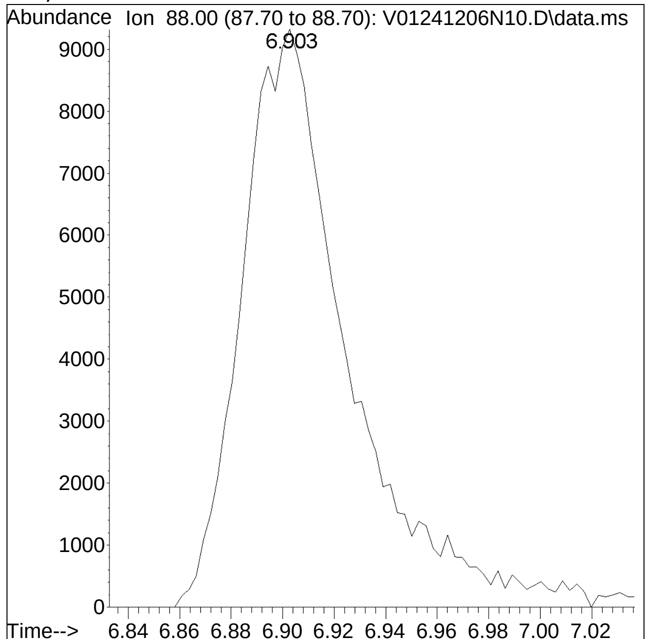
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

```
Data Path   : K:\VOA101\2024\241206NICALQMethod     : V101_241206N_8260.m
Data File   : V01241206N10.D             Operator    : VOA101:PID
Date Inj'd  : 12/7/2024  3:32 am         Instrument  : VOA 101
Sample      : I8260STD30PPB              Quant Date  : 12/9/2024  7:41 am
```

Compound #57: 1,4-Dioxane



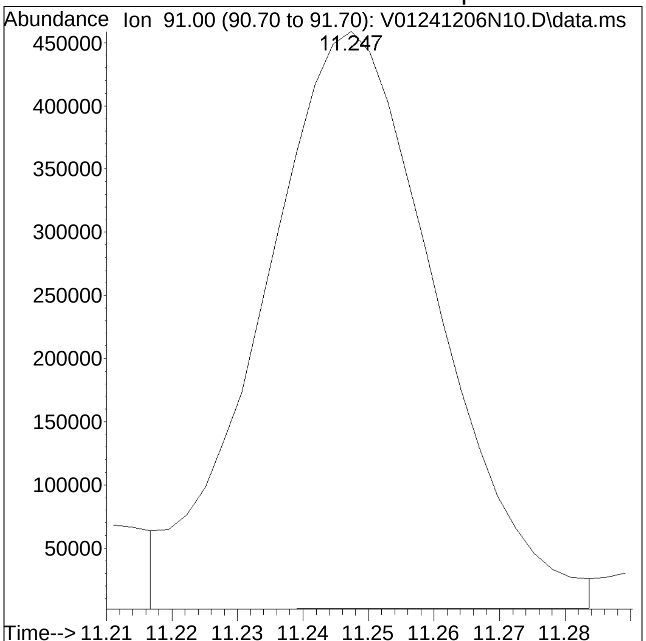

Original Peak Response = 25038        Manual Peak Response = 26656 M1

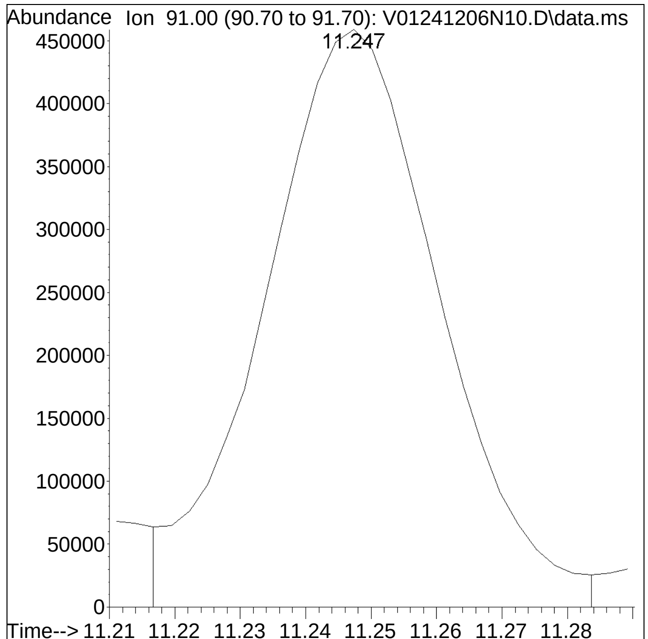
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

```
Data Path   : K:\VOA101\2024\241206NICALQMethod     : V101_241206N_8260.m
Data File   : V01241206N10.D              Operator    : VOA101:PID
Date Inj'd  : 12/7/2024  3:32 am          Instrument  : VOA 101
Sample      : I8260STD30PPB               Quant Date  : 12/9/2024  7:41 am
```

Compound #89: 2-Chlorotoluene



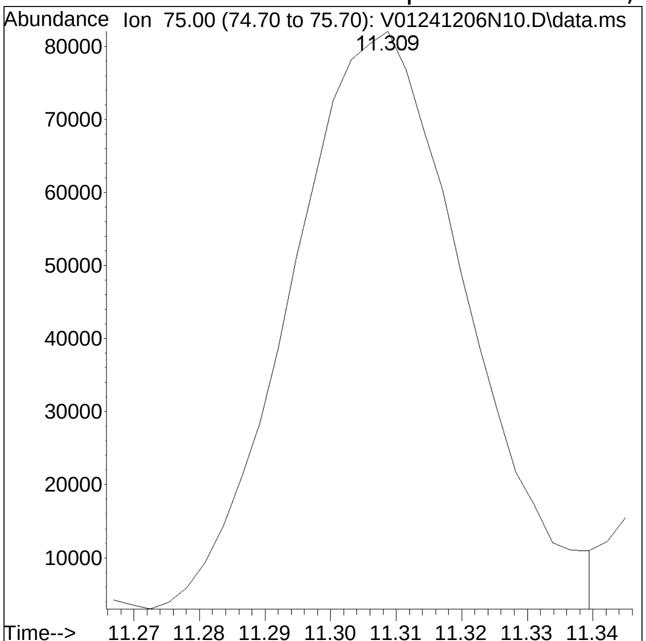

Original Peak Response = 841268 Manual Peak Response = 849408 M1

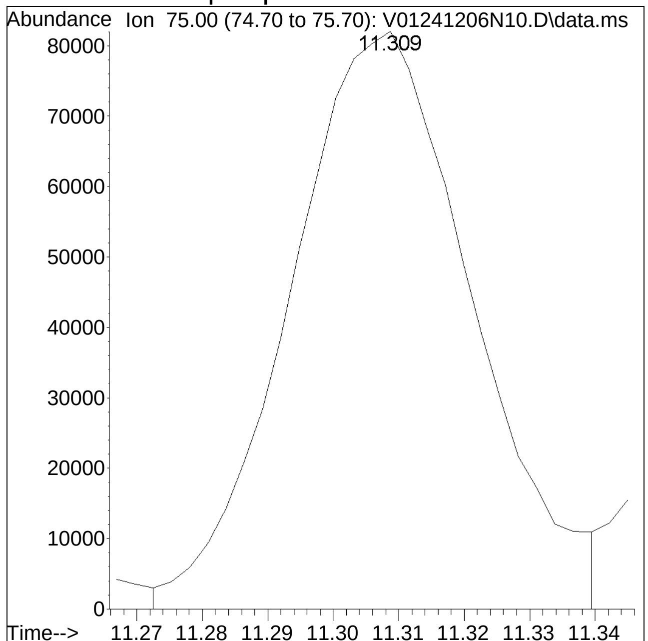
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

```
Data Path   : K:\VOA101\2024\241206NICALQMethod     : V101_241206N_8260.m
Data File   : V01241206N10.D            Operator    : VOA101:PID
Date Inj'd  : 12/7/2024  3:32 am        Instrument  : VOA 101
Sample      : I8260STD30PPB             Quant Date  : 12/9/2024  7:41 am
```

Compound #91: 1,2,3-Trichloropropane




Original Peak Response = 145815     Manual Peak Response = 157880 M4

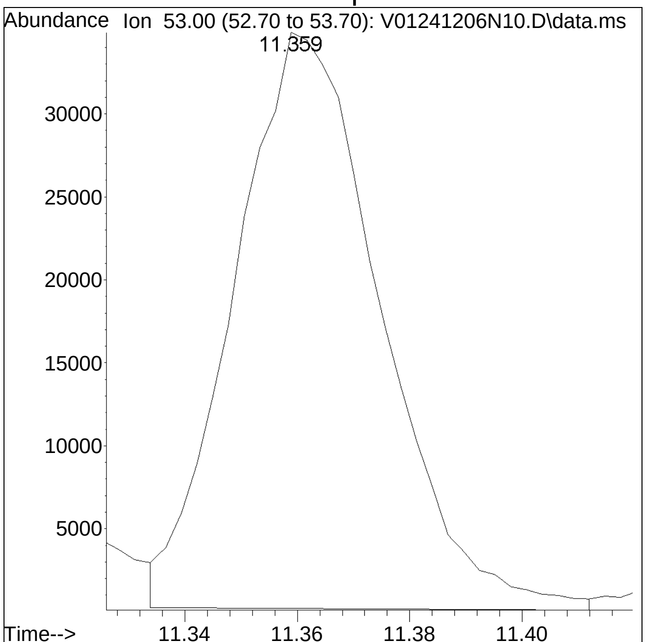
M4 = Poor automated baseline construction.

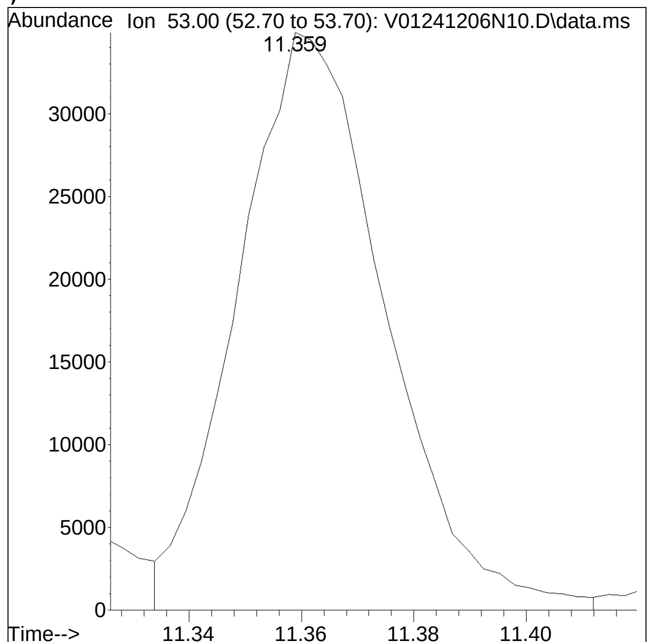
Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Data File : V01241206N10.D
Date Inj'd : 12/7/2024 3:32 am
Sample : I8260STD30PPB

Method : V101_241206N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 12/9/2024 7:41 am

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




Original Peak Response = 62717

Manual Peak Response = 63548 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N11.D
Acq On : 7 Dec 2024 3:57 am
Operator : VOA101:PID
Sample : I8260STD80PPB
Misc : WG2006865,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 09 07:41:59 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List : 8260-Curve - Megamix plus Diox

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) Fluorobenzene | 5.899 | 96 | 321322 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 319719 | | | Recovery | = 100.50% | |
| 59) Chlorobenzene-d5 | 9.413 | 117 | 258324 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 251130 | | | Recovery | = 102.86% | |
| 79) 1,4-Dichlorobenzene-d4 | 12.143 | 152 | 141024 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 133469 | | | Recovery | = 105.66% | |
| System Monitoring Compounds | | | | | |
| 36) Dibromofluoromethane | 5.099 | 113 | 87814 | 10.120 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 101.20% | |
| 43) 1,2-Dichloroethane-d4 | 5.617 | 65 | 94389 | 9.975 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 99.75% | |
| 60) Toluene-d8 | 7.572 | 98 | 321112 | 9.862 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 98.62% | |
| 83) 4-Bromofluorobenzene | 10.924 | 95 | 127736 | 9.756 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 97.56% | |

| Target Compounds | R.T. | QIon | Response | Conc Units | Qvalue |
|---|---|---|---|---|---|
| 2) Dichlorodifluoromethane | 1.621 | 85 | 816545 | 81.970 ug/L | 99 |
| 3) Chloromethane | 1.808 | 50 | 836639 | 81.774 ug/L | 100 |
| 4) Vinyl chloride | 1.875 | 62 | 902870 | 83.993 ug/L | 100 |
| 5) Bromomethane | 2.173 | 94 | 469919 | 87.068 ug/L | 100 |
| 6) Chloroethane | 2.279 | 64 | 571103 | 84.769 ug/L | 97 |
| 7) Trichlorofluoromethane | 2.416 | 101 | 1168816 | 83.620 ug/L | 98 |
| 8) Ethyl ether | 2.709 | 74 | 301191 | 80.920 ug/L | 81 |
| 10) 1,1-Dichloroethene | 2.890 | 96 | 661453 | 82.109 ug/L | 91 |
| 11) Carbon disulfide | 2.921 | 76 | 2052650 | 83.192 ug/L | 100 |
| 12) Freon-113 | 2.923 | 101 | 715152 | 83.952 ug/L | 79 |
| 13) Iodomethane | 3.027 | 142 | 973831 | 94.217 ug/L | 100 |
| 14) Acrolein | 3.208 | 56 | 76167 | 72.535 ug/L | 97 |
| 15) Methylene chloride | 3.431 | 84 | 619454 | 79.351 ug/L | 88 |
| 17) Acetone | 3.478 | 43 | 113591 | 43.876 ug/L | 90 |
| 18) trans-1,2-Dichloroethene | 3.582 | 96 | 650245 | 82.431 ug/L | 97 |
| 19) Methyl acetate | 3.590 | 43 | 288592 | 68.025 ug/L | 94 |
| 20) Methyl tert-butyl ether | 3.679 | 73 | 1373309 | 81.499 ug/L | 94 |
| 21) tert-Butyl alcohol | 3.782 | 59 | 165842 | 408.263 ug/L | 95 |
| 22) Diisopropyl ether | 4.033 | 45 | 2298100 | 81.783 ug/L | 98 |
| 23) 1,1-Dichloroethane | 4.153 | 63 | 1253072 | 82.739 ug/L | 99 |
| 24) Halothane | 4.203 | 117 | 514036 | 83.295 ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N11.D
Acq On : 7 Dec 2024 3:57 am
Operator : VOA101:PID
Sample : I8260STD80PPB
Misc : WG2006865,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 09 07:41:59 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List : 8260-Curve - Megamix plus Diox

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 25) Acrylonitrile | 4.195 | 53 | 135389 | 84.756 ug/L | 99 |
| 26) Ethyl tert-butyl ether | 4.376 | 59 | 1932658 | 82.334 ug/L | 91 |
| 27) Vinyl acetate | 4.382 | 43 | 1063244 | 77.044 ug/L | 96 |
| 28) cis-1,2-Dichloroethene | 4.663 | 96 | 712615 | 82.724 ug/L | 96 |
| 29) 2,2-Dichloropropane | 4.758 | 77 | 1044492 | 83.823 ug/L | 91 |
| 30) Bromochloromethane | 4.853 | 128 | 335013 | 83.757 ug/L | 97 |
| 31) Cyclohexane | 4.856 | 56 | 1313543 | 82.175 ug/L | 93 |
| 32) Chloroform | 4.926 | 83 | 1158142 | 82.563 ug/L | 97 |
| 33) Ethyl acetate | 5.029 | 43 | 421728 | 83.476 ug/L | 96 |
| 34) Carbon tetrachloride | 5.054 | 117 | 984233 | 85.588 ug/L | 99 |
| 35) Tetrahydrofuran | 5.076 | 42 | 107941 | 72.505 ug/L | 94 |
| 37) 1,1,1-Trichloroethane | 5.121 | 97 | 1059491 | 82.590 ug/L | 98 |
| 39) 2-Butanone | 5.210 | 43 | 171976 | 54.566 ug/L # | 82 |
| 40) 1,1-Dichloropropene | 5.241 | 75 | 905857 | 82.755 ug/L | 98 |
| 41) Benzene | 5.483 | 78 | 2567565 | 83.341 ug/L | 96 |
| 42) tert-Amyl methyl ether | 5.595 | 73 | 1494495 | 82.111 ug/L | 95 |
| 44) 1,2-Dichloroethane | 5.684 | 62 | 826723 | 81.725 ug/L | 99 |
| 47) Methyl cyclohexane | 6.063 | 83 | 1191639 | 83.816 ug/L | 91 |
| 48) Trichloroethene | 6.077 | 95 | 720486 | 84.065 ug/L | 96 |
| 50) Dibromomethane | 6.510 | 93 | 351809 | 84.072 ug/L | 96 |
| 51) 1,2-Dichloropropane | 6.613 | 63 | 682484 | 82.716 ug/L | 99 |
| 53) 2-Chloroethyl vinyl ether | 7.299 | 63 | 272735 | 86.755 ug/L | 95 |
| 54) Bromodichloromethane | 6.688 | 83 | 880336 | 82.717 ug/L | 100 |
| 57) 1,4-Dioxane | 6.900 | 88 | 35615M1 | 831.844 ug/L | |
| 58) cis-1,3-Dichloropropene | 7.371 | 75 | 1028260 | 84.425 ug/L # | 88 |
| 61) Toluene | 7.633 | 92 | 1722840 | 82.926 ug/L | 97 |
| 62) 4-Methyl-2-pentanone | 8.066 | 58 | 150058 | 89.750 ug/L | 96 |
| 63) Tetrachloroethene | 8.082 | 166 | 724023 | 82.968 ug/L | 97 |
| 65) trans-1,3-Dichloropropene | 8.113 | 75 | 878216 | 86.019 ug/L | 89 |
| 67) Ethyl methacrylate | 8.303 | 69 | 569746 | 87.106 ug/L | 99 |
| 68) 1,1,2-Trichloroethane | 8.300 | 83 | 392749 | 81.580 ug/L | 97 |
| 69) Chlorodibromomethane | 8.512 | 129 | 630131 | 85.193 ug/L | 99 |
| 70) 1,3-Dichloropropane | 8.618 | 76 | 795669 | 82.294 ug/L | 99 |
| 71) 1,2-Dibromoethane | 8.785 | 107 | 469031 | 83.529 ug/L | 99 |
| 72) 2-Hexanone | 9.067 | 43 | 269636 | 85.476 ug/L | 99 |
| 73) Chlorobenzene | 9.432 | 112 | 1977300 | 83.207 ug/L | 96 |
| 74) Ethylbenzene | 9.471 | 91 | 3451292 | 84.234 ug/L | 98 |
| 75) 1,1,1,2-Tetrachloroethane | 9.518 | 131 | 700250 | 85.062 ug/L | 99 |
| 76) p/m Xylene | 9.658 | 106 | 2771649 | 170.048 ug/L | 96 |
| 77) o Xylene | 10.205 | 106 | 2659506 | 171.114 ug/L | 96 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N11.D
Acq On : 7 Dec 2024 3:57 am
Operator : VOA101:PID
Sample : I8260STD80PPB
Misc : WG2006865,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 09 07:41:59 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List : 8260-Curve - Megamix plus Diox

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 78) Styrene | 10.271 | 104 | 4511713 | 175.391 | ug/L | 98 |
| 80) Bromoform | 10.299 | 173 | 351808 | 88.196 | ug/L | 99 |
| 82) Isopropylbenzene | 10.592 | 105 | 3583552 | 83.482 | ug/L | 100 |
| 84) Bromobenzene | 11.036 | 156 | 777641 | 82.527 | ug/L | 99 |
| 85) n-Propylbenzene | 11.077 | 91 | 4098835 | 83.050 | ug/L | 98 |
| 86) 1,4-Dichlorobutane | 11.094 | 55 | 864284 | 77.860 | ug/L | 98 |
| 87) 1,1,2,2-Tetrachloroethane | 11.172 | 83 | 534847 | 80.751 | ug/L | 99 |
| 88) 4-Ethyltoluene | 11.206 | 105 | 3449302 | 84.088 | ug/L | 100 |
| 89) 2-Chlorotoluene | 11.247 | 91 | 2320282M1 | 81.946 | ug/L | |
| 90) 1,3,5-Trimethylbenzene | 11.306 | 105 | 2935292 | 83.845 | ug/L | 100 |
| 91) 1,2,3-Trichloropropane | 11.309 | 75 | 436706M1 | 80.786 | ug/L | |
| 92) trans-1,4-Dichloro-2-b... | 11.362 | 53 | 179206M1 | 84.280 | ug/L | |
| 93) 4-Chlorotoluene | 11.434 | 91 | 2397788 | 83.346 | ug/L | 99 |
| 94) tert-Butylbenzene | 11.649 | 119 | 2471894 | 83.437 | ug/L | 99 |
| 97) 1,2,4-Trimethylbenzene | 11.727 | 105 | 2838672 | 83.913 | ug/L | 100 |
| 98) sec-Butylbenzene | 11.839 | 105 | 3600282 | 84.200 | ug/L | 99 |
| 99) p-Isopropyltoluene | 11.998 | 119 | 3100910 | 85.210 | ug/L | 98 |
| 100) 1,3-Dichlorobenzene | 12.062 | 146 | 1494376 | 83.658 | ug/L | 99 |
| 101) 1,4-Dichlorobenzene | 12.157 | 146 | 1490435 | 82.476 | ug/L | 99 |
| 102) p-Diethylbenzene | 12.371 | 119 | 1778974 | 85.999 | ug/L | 98 |
| 103) n-Butylbenzene | 12.430 | 91 | 2487091 | 85.025 | ug/L | 99 |
| 104) 1,2-Dichlorobenzene | 12.583 | 146 | 1305509 | 84.021 | ug/L | 99 |
| 105) 1,2,4,5-Tetramethylben... | 13.169 | 119 | 2454982 | 85.689 | ug/L | 98 |
| 106) 1,2-Dibromo-3-chloropr... | 13.364 | 155 | 74237 | 88.992 | ug/L | 98 |
| 107) 1,3,5-Trichlorobenzene | 13.398 | 180 | 848682 | 84.709 | ug/L | 98 |
| 108) Hexachlorobutadiene | 13.972 | 225 | 298591 | 80.739 | ug/L | 99 |
| 109) 1,2,4-Trichlorobenzene | 13.994 | 180 | 664619 | 83.319 | ug/L | 98 |
| 110) Naphthalene | 14.287 | 128 | 1314070 | 80.863 | ug/L | 100 |
| 111) 1,2,3-Trichlorobenzene | 14.457 | 180 | 499707 | 81.497 | ug/L | 98 |

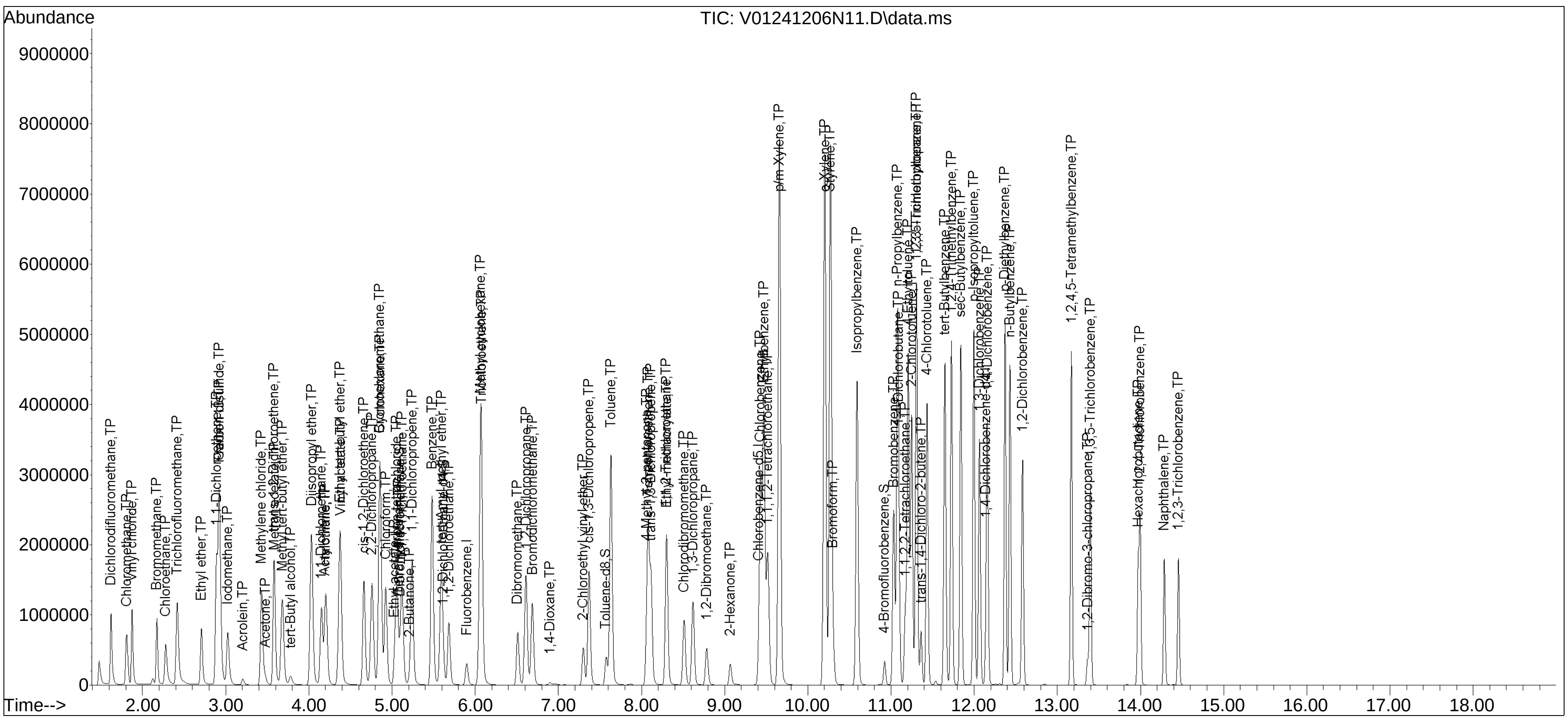
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N11.D
Acq On    :  7 Dec 2024   3:57 am
Operator  : VOA101:PID
Sample    : I8260STD80PPB
Misc      : WG2006865,ICAL
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Dec 09 07:41:59 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

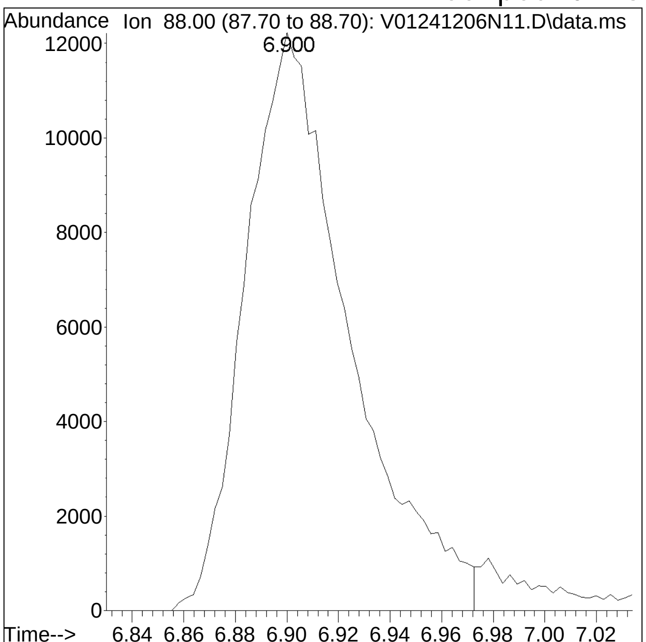
Sub List     : 8260-Curve - Megamix plus Diox\V01241206N09.D•

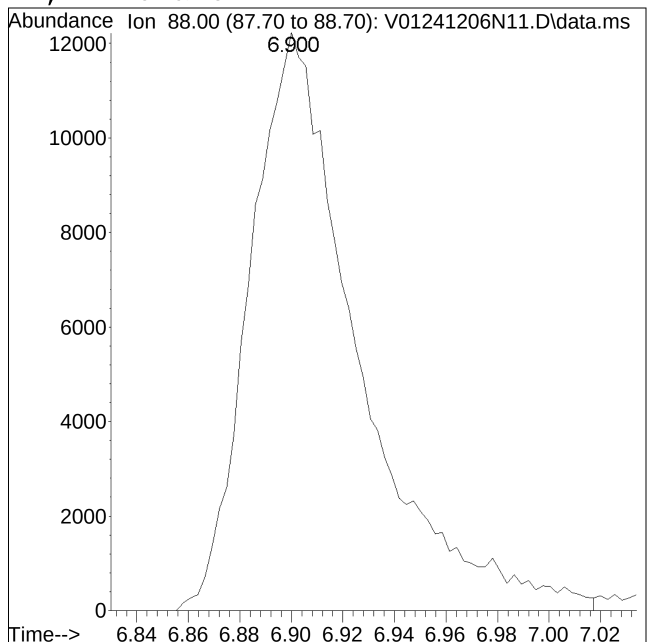


Manual Integration Report

```
Data Path   : K:\VOA101\2024\241206NICALQMethod     : V101_241206N_8260.m
Data File   : V01241206N11.D              Operator    : VOA101:PID
Date Inj'd  : 12/7/2024  3:57 am          Instrument  : VOA 101
Sample      : I8260STD80PPB               Quant Date  : 12/9/2024  7:41 am
```

Compound #57: 1,4-Dioxane



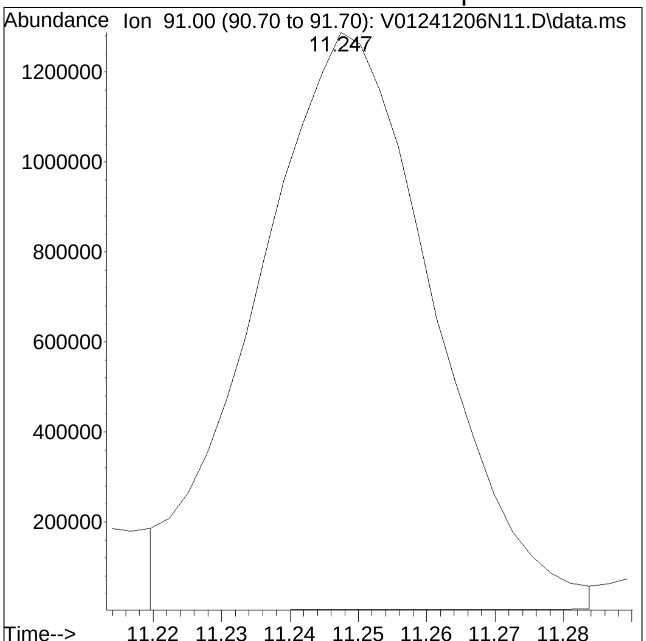

Original Peak Response = 34101    Manual Peak Response = 35615 M1

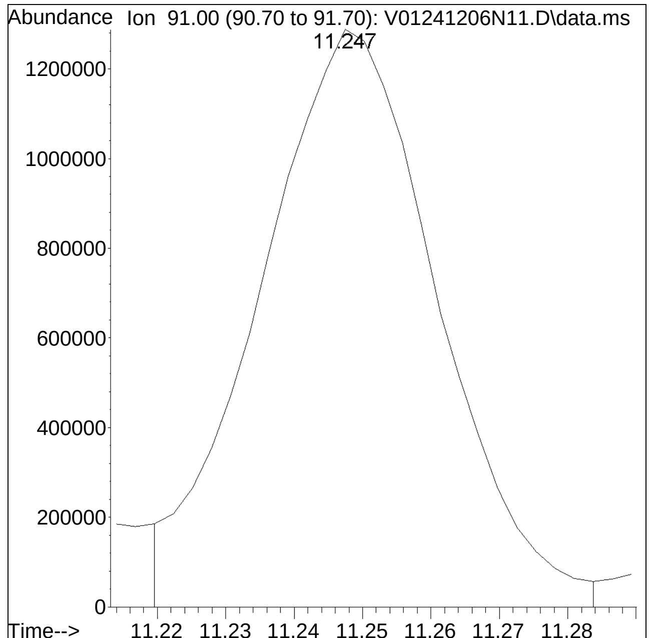
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA101\2024\241206NICALQ | Method | : V101_241206N_8260.m |
| Data File | : V01241206N11.D | Operator | : VOA101:PID |
| Date Inj'd | : 12/7/2024 3:57 am | Instrument | : VOA 101 |
| Sample | : I8260STD80PPB | Quant Date | : 12/9/2024 7:41 am |

Compound #89: 2-Chlorotoluene



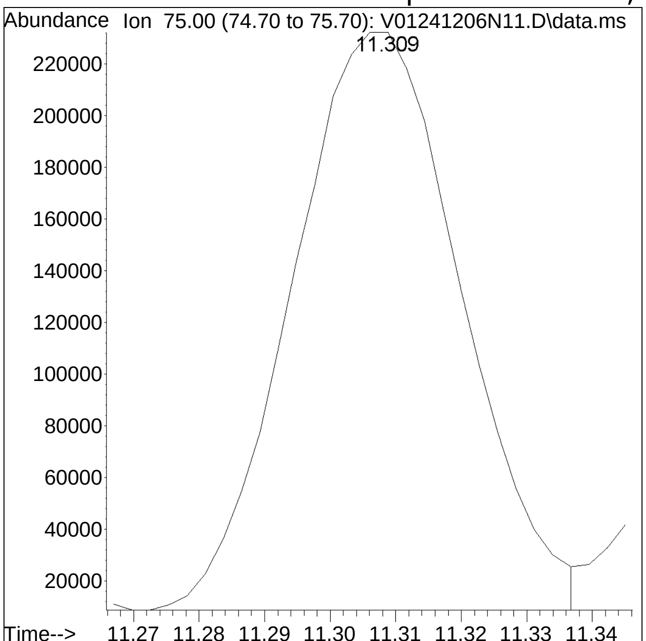

Original Peak Response = 2300402 Manual Peak Response = 2320282 M1

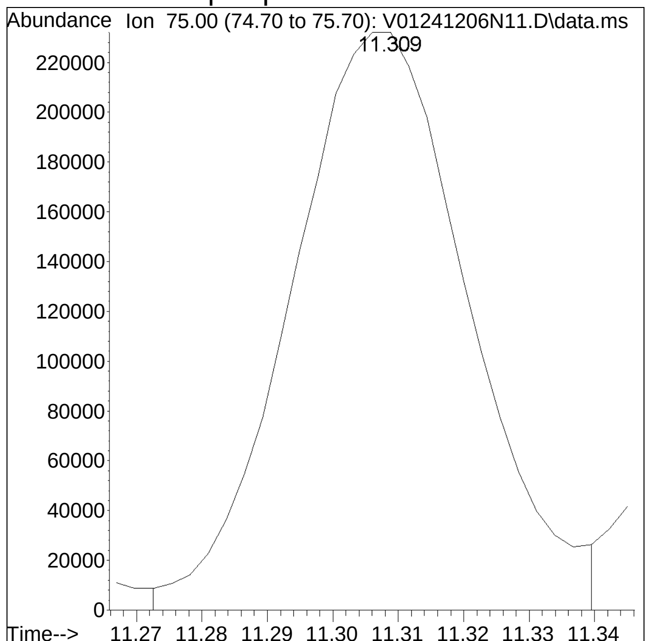
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

```
Data Path   : K:\VOA101\2024\241206NICALQMethod     : V101_241206N_8260.m
Data File   : V01241206N11.D             Operator    : VOA101:PID
Date Inj'd  : 12/7/2024  3:57 am         Instrument  : VOA 101
Sample      : I8260STD80PPB              Quant Date  : 12/9/2024  7:41 am
```

Compound #91: 1,2,3-Trichloropropane



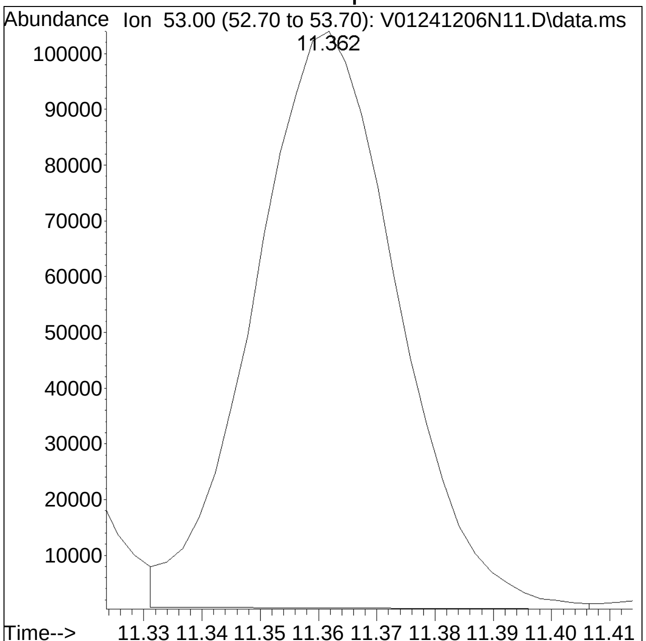

Original Peak Response = 398768 Manual Peak Response = 436706 M1

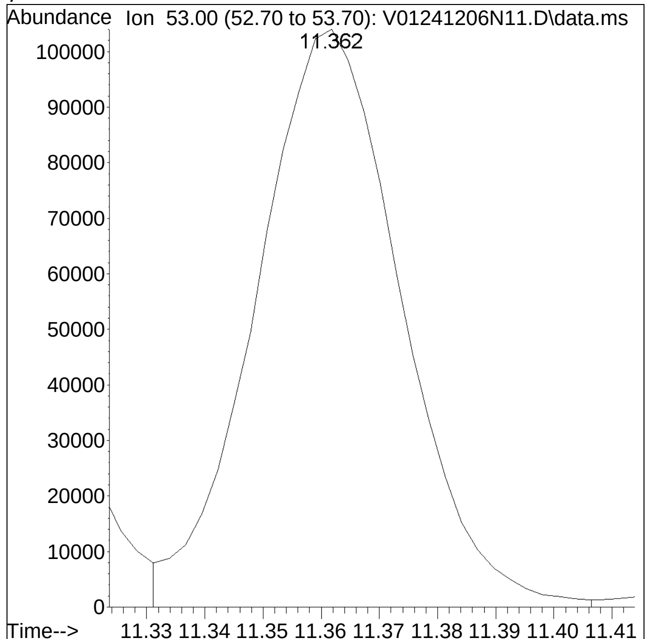
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQMethod : V101_241206N_8260.m
Data File : V01241206N11.D Operator : VOA101:PID
Date Inj'd : 12/7/2024 3:57 am Instrument : VOA 101
Sample : I8260STD80PPB Quant Date : 12/9/2024 7:41 am

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




Original Peak Response = 176823 Manual Peak Response = 179206 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N12.D
Acq On : 7 Dec 2024 4:23 am
Operator : VOA101:PID
Sample : I8260STD120PPB
Misc : WG2006865,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 09 07:42:06 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List : 8260-Curve - Megamix plus Diox

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) Fluorobenzene | 5.899 | 96 | 320891 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 319719 | | | Recovery = 100.37% | | |
| 59) Chlorobenzene-d5 | 9.410 | 117 | 264678 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 251130 | | | Recovery = 105.39% | | |
| 79) 1,4-Dichlorobenzene-d4 | 12.145 | 152 | 143180 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 133469 | | | Recovery = 107.28% | | |
| System Monitoring Compounds | | | | | |
| 36) Dibromofluoromethane | 5.098 | 113 | 88847 | 10.253 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 102.53% | | |
| 43) 1,2-Dichloroethane-d4 | 5.614 | 65 | 97614 | 10.329 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 103.29% | | |
| 60) Toluene-d8 | 7.575 | 98 | 324943 | 9.740 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 97.40% | | |
| 83) 4-Bromofluorobenzene | 10.924 | 95 | 130119 | 9.788 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 97.88% | | |

| Target Compounds | R.T. | QIon | Response | Conc Units | Qvalue |
|---|---|---|---|---|---|
| 2) Dichlorodifluoromethane | 1.621 | 85 | 1254690 | 126.122 ug/L | 99 |
| 3) Chloromethane | 1.811 | 50 | 1262434 | 123.557 ug/L | 100 |
| 4) Vinyl chloride | 1.875 | 62 | 1376785 | 128.253 ug/L | 100 |
| 5) Bromomethane | 2.173 | 94 | 734010 | 136.183 ug/L | 100 |
| 6) Chloroethane | 2.274 | 64 | 819771 | 121.843 ug/L | 97 |
| 7) Trichlorofluoromethane | 2.419 | 101 | 1758041 | 125.943 ug/L | 98 |
| 8) Ethyl ether | 2.709 | 74 | 447065 | 120.273 ug/L | 80 |
| 10) 1,1-Dichloroethene | 2.890 | 96 | 993614 | 123.508 ug/L | 90 |
| 11) Carbon disulfide | 2.921 | 76 | 3098852 | 125.762 ug/L | 100 |
| 12) Freon-113 | 2.923 | 101 | 1077520 | 126.660 ug/L | 79 |
| 13) Iodomethane | 3.024 | 142 | 1445484 | 140.037 ug/L | 100 |
| 14) Acrolein | 3.205 | 56 | 117786 | 112.319 ug/L | 96 |
| 15) Methylene chloride | 3.431 | 84 | 929471 | 119.224 ug/L | 88 |
| 17) Acetone | 3.478 | 43 | 163587 | 63.273 ug/L | 97 |
| 18) trans-1,2-Dichloroethene | 3.581 | 96 | 989332 | 125.585 ug/L | 97 |
| 19) Methyl acetate | 3.590 | 43 | 434751 | 102.614 ug/L | 95 |
| 20) Methyl tert-butyl ether | 3.679 | 73 | 2089620 | 124.175 ug/L | 94 |
| 21) tert-Butyl alcohol | 3.779 | 59 | 268337 | 661.468 ug/L | 98 |
| 22) Diisopropyl ether | 4.030 | 45 | 3457350 | 123.202 ug/L | 98 |
| 23) 1,1-Dichloroethane | 4.150 | 63 | 1902227 | 125.771 ug/L | 99 |
| 24) Halothane | 4.203 | 117 | 791420 | 128.415 ug/L | 99 |

Quantitation Report (QT Reviewed)

```
Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N12.D
Acq On    :  7 Dec 2024   4:23 am
Operator  : VOA101:PID
Sample    : I8260STD120PPB
Misc      : WG2006865,ICAL
ALS Vial  : 12   Sample Multiplier: 1

Quant Time: Dec 09 07:42:06 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List     : 8260-Curve - Megamix plus Diox
```

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 25) Acrylonitrile | 4.195 | 53 | 210615 | 132.025 | ug/L | 97 |
| 26) Ethyl tert-butyl ether | 4.371 | 59 | 2938269 | 125.343 | ug/L | 92 |
| 27) Vinyl acetate | 4.379 | 43 | 1702562 | 123.535 | ug/L | 97 |
| 28) cis-1,2-Dichloroethene | 4.663 | 96 | 1075250 | 124.988 | ug/L | 97 |
| 29) 2,2-Dichloropropane | 4.761 | 77 | 1581895 | 127.122 | ug/L | 92 |
| 30) Bromochloromethane | 4.850 | 128 | 500888 | 125.396 | ug/L | 98 |
| 31) Cyclohexane | 4.856 | 56 | 2032232 | 127.306 | ug/L | 93 |
| 32) Chloroform | 4.926 | 83 | 1738750 | 124.120 | ug/L | 97 |
| 33) Ethyl acetate | 5.032 | 43 | 647640 | 128.364 | ug/L | 96 |
| 34) Carbon tetrachloride | 5.057 | 117 | 1515869 | 131.996 | ug/L | 99 |
| 35) Tetrahydrofuran | 5.076 | 42 | 162795 | 109.498 | ug/L | 95 |
| 37) 1,1,1-Trichloroethane | 5.118 | 97 | 1615004 | 126.063 | ug/L | 98 |
| 39) 2-Butanone | 5.210 | 43 | 270104 | 85.816 | ug/L # | 81 |
| 40) 1,1-Dichloropropene | 5.241 | 75 | 1384087 | 126.614 | ug/L | 98 |
| 41) Benzene | 5.480 | 78 | 3878195 | 126.052 | ug/L | 96 |
| 42) tert-Amyl methyl ether | 5.595 | 73 | 2273532 | 125.081 | ug/L | 95 |
| 44) 1,2-Dichloroethane | 5.684 | 62 | 1245697 | 123.308 | ug/L | 99 |
| 47) Methyl cyclohexane | 6.063 | 83 | 1836825 | 129.369 | ug/L | 92 |
| 48) Trichloroethene | 6.077 | 95 | 1109809 | 129.664 | ug/L | 97 |
| 50) Dibromomethane | 6.512 | 93 | 529756 | 126.767 | ug/L | 97 |
| 51) 1,2-Dichloropropane | 6.607 | 63 | 1025113 | 124.409 | ug/L | 99 |
| 53) 2-Chloroethyl vinyl ether | 7.299 | 63 | 411996 | 131.229 | ug/L | 95 |
| 54) Bromodichloromethane | 6.685 | 83 | 1334969 | 125.603 | ug/L | 100 |
| 57) 1,4-Dioxane | 6.900 | 88 | 55318M1 | 1293.774 | ug/L | |
| 58) cis-1,3-Dichloropropene | 7.368 | 75 | 1552679 | 127.653 | ug/L # | 89 |
| 61) Toluene | 7.633 | 92 | 2612867 | 122.747 | ug/L | 98 |
| 62) 4-Methyl-2-pentanone | 8.063 | 58 | 231138 | 134.925 | ug/L | 98 |
| 63) Tetrachloroethene | 8.082 | 166 | 1111182 | 124.276 | ug/L | 97 |
| 65) trans-1,3-Dichloropropene | 8.116 | 75 | 1342105 | 128.300 | ug/L | 89 |
| 67) Ethyl methacrylate | 8.303 | 69 | 882391 | 131.667 | ug/L | 99 |
| 68) 1,1,2-Trichloroethane | 8.300 | 83 | 598504 | 121.334 | ug/L | 96 |
| 69) Chlorodibromomethane | 8.512 | 129 | 963267 | 127.106 | ug/L | 99 |
| 70) 1,3-Dichloropropane | 8.620 | 76 | 1201777 | 121.313 | ug/L | 99 |
| 71) 1,2-Dibromoethane | 8.785 | 107 | 711794 | 123.720 | ug/L | 98 |
| 72) 2-Hexanone | 9.067 | 43 | 420420 | 130.076 | ug/L | 99 |
| 73) Chlorobenzene | 9.432 | 112 | 2991102 | 122.848 | ug/L | 96 |
| 74) Ethylbenzene | 9.474 | 91 | 5260084 | 125.298 | ug/L | 98 |
| 75) 1,1,1,2-Tetrachloroethane | 9.518 | 131 | 1062496 | 125.968 | ug/L | 99 |
| 76) p/m Xylene | 9.658 | 106 | 4206207 | 251.867 | ug/L | 97 |
| 77) o Xylene | 10.204 | 106 | 4013004 | 252.000 | ug/L | 96 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N12.D
Acq On : 7 Dec 2024 4:23 am
Operator : VOA101:PID
Sample : I8260STD120PPB
Misc : WG2006865,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 09 07:42:06 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List : 8260-Curve - Megamix plus Diox

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 78) | Styrene | 10.274 | 104 | 6754149 | 256.261 | ug/L | 99 |
| 80) | Bromoform | 10.302 | 173 | 543379 | 134.170 | ug/L | 99 |
| 82) | Isopropylbenzene | 10.592 | 105 | 5419034 | 124.340 | ug/L | 100 |
| 84) | Bromobenzene | 11.033 | 156 | 1169290 | 122.221 | ug/L | 99 |
| 85) | n-Propylbenzene | 11.080 | 91 | 6189123 | 123.515 | ug/L | 98 |
| 86) | 1,4-Dichlorobutane | 11.094 | 55 | 1313659 | 116.561 | ug/L | 98 |
| 87) | 1,1,2,2-Tetrachloroethane | 11.172 | 83 | 819235 | 121.825 | ug/L | 99 |
| 88) | 4-Ethyltoluene | 11.208 | 105 | 5202344 | 124.915 | ug/L | 100 |
| 89) | 2-Chlorotoluene | 11.250 | 91 | 3520472M1 | 122.461 | ug/L | |
| 90) | 1,3,5-Trimethylbenzene | 11.309 | 105 | 4446058 | 125.087 | ug/L | 99 |
| 91) | 1,2,3-Trichloropropane | 11.306 | 75 | 672370M1 | 122.509 | ug/L | |
| 92) | trans-1,4-Dichloro-2-b... | 11.362 | 53 | 276644M1 | 128.145 | ug/L | |
| 93) | 4-Chlorotoluene | 11.434 | 91 | 3623210 | 124.044 | ug/L | 99 |
| 94) | tert-Butylbenzene | 11.649 | 119 | 3744138 | 124.478 | ug/L | 99 |
| 97) | 1,2,4-Trimethylbenzene | 11.730 | 105 | 4277112 | 124.530 | ug/L | 99 |
| 98) | sec-Butylbenzene | 11.841 | 105 | 5454411 | 125.642 | ug/L | 99 |
| 99) | p-Isopropyltoluene | 11.998 | 119 | 4670501 | 126.409 | ug/L | 99 |
| 100) | 1,3-Dichlorobenzene | 12.067 | 146 | 2255540 | 124.368 | ug/L | 99 |
| 101) | 1,4-Dichlorobenzene | 12.156 | 146 | 2243400 | 122.274 | ug/L | 99 |
| 102) | p-Diethylbenzene | 12.371 | 119 | 2689398 | 128.052 | ug/L | 98 |
| 103) | n-Butylbenzene | 12.433 | 91 | 3783344 | 127.392 | ug/L | 99 |
| 104) | 1,2-Dichlorobenzene | 12.580 | 146 | 1970403 | 124.903 | ug/L | 98 |
| 105) | 1,2,4,5-Tetramethylben... | 13.169 | 119 | 3695806 | 127.056 | ug/L | 99 |
| 106) | 1,2-Dibromo-3-chloropr... | 13.361 | 155 | 117446 | 138.669 | ug/L | 98 |
| 107) | 1,3,5-Trichlorobenzene | 13.397 | 180 | 1281144 | 125.949 | ug/L | 98 |
| 108) | Hexachlorobutadiene | 13.972 | 225 | 462468 | 123.169 | ug/L | 99 |
| 109) | 1,2,4-Trichlorobenzene | 13.994 | 180 | 1022208 | 126.218 | ug/L | 98 |
| 110) | Naphthalene | 14.287 | 128 | 2073666 | 125.684 | ug/L | 100 |
| 111) | 1,2,3-Trichlorobenzene | 14.457 | 180 | 776724 | 124.769 | ug/L | 99 |

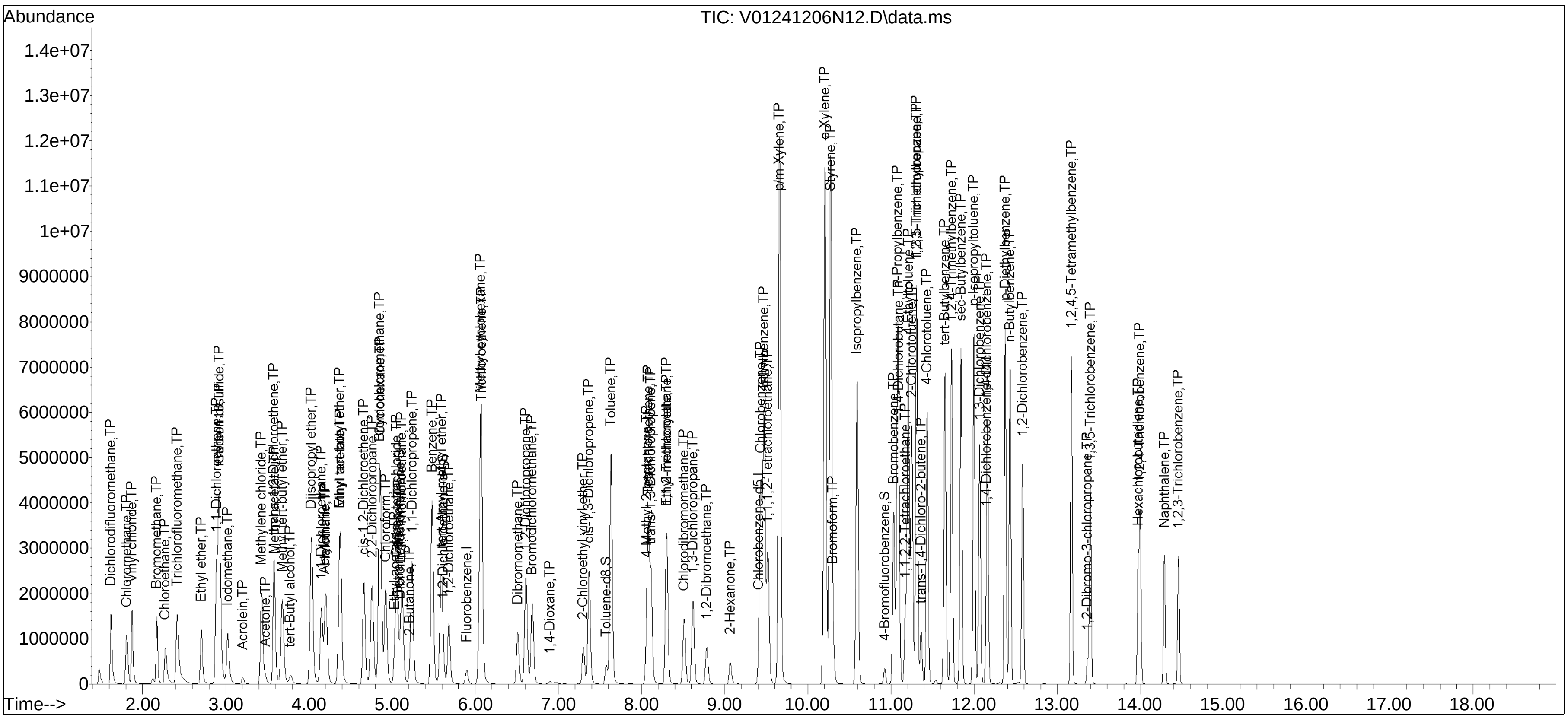
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N12.D
Acq On : 7 Dec 2024 4:23 am
Operator : VOA101:PID
Sample : I8260STD120PPB
Misc : WG2006865,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 09 07:42:06 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

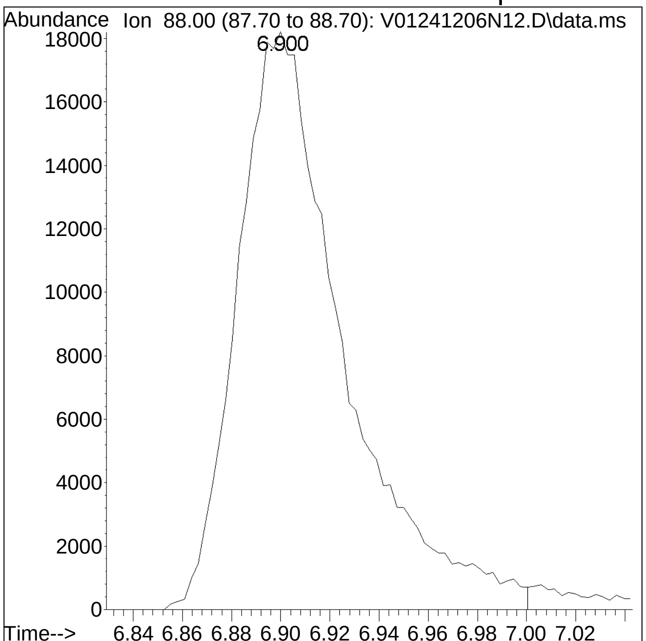
Sub List : 8260-Curve - Megamix plus Diox\V01241206N09.D•

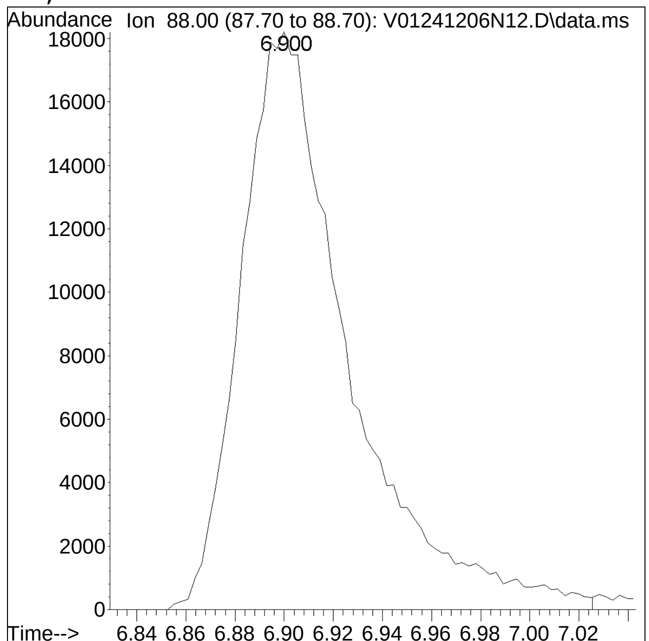


Manual Integration Report

```
Data Path    : K:\VOA101\2024\241206NICALQMethod     : V101_241206N_8260.m
Data File    : V01241206N12.D         Operator    : VOA101:PID
Date Inj'd   : 12/7/2024  4:23 am      Instrument  : VOA 101
Sample       : I8260STD120PPB          Quant Date  : 12/9/2024  7:42 am
```

Compound #57: 1,4-Dioxane



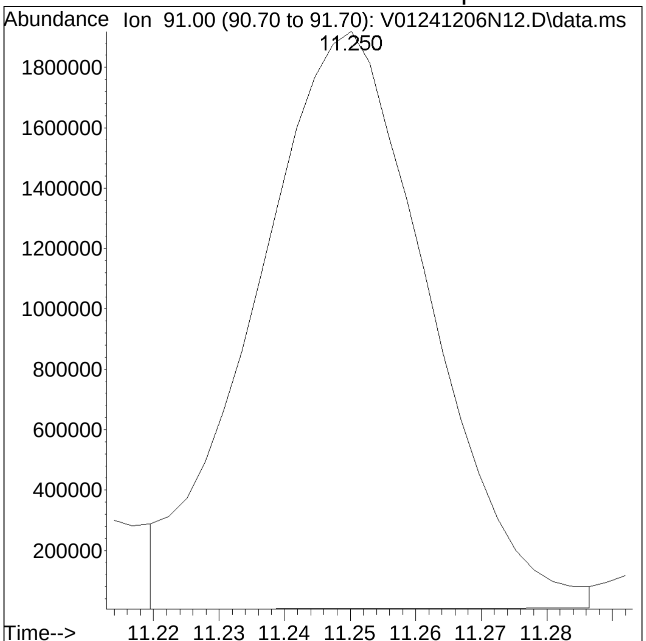

Original Peak Response = 54467        Manual Peak Response = 55318 M1

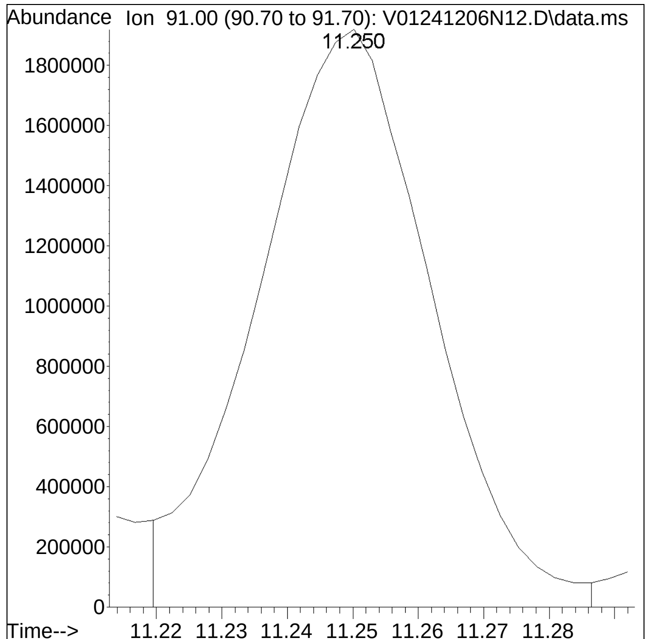
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQMethod : V101_241206N_8260.m
Data File : V01241206N12.D Operator : VOA101:PID
Date Inj'd : 12/7/2024 4:23 am Instrument : VOA 101
Sample : I8260STD120PPB Quant Date : 12/9/2024 7:42 am

Compound #89: 2-Chlorotoluene



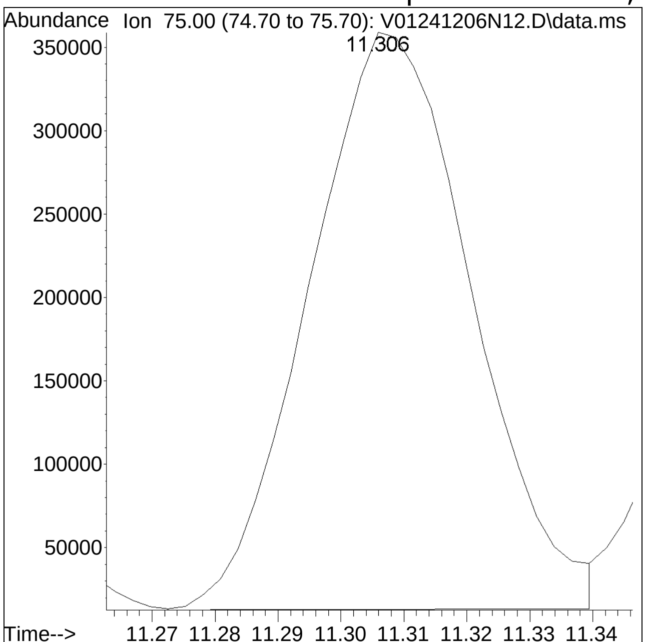



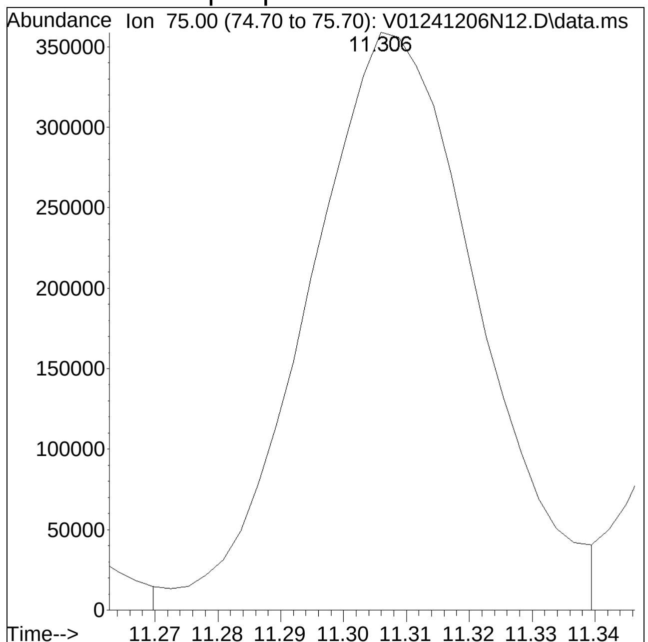

Original Peak Response = 3489997 Manual Peak Response = 3520472 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA101\2024\241206NICALQ | Method | : V101_241206N_8260.m |
| Data File | : V01241206N12.D | Operator | : VOA101:PID |
| Date Inj'd | : 12/7/2024 4:23 am | Instrument | : VOA 101 |
| Sample | : I8260STD120PPB | Quant Date | : 12/9/2024 7:42 am |

Compound #91: 1,2,3-Trichloropropane




Original Peak Response = 617754        Manual Peak Response = 672370 M1

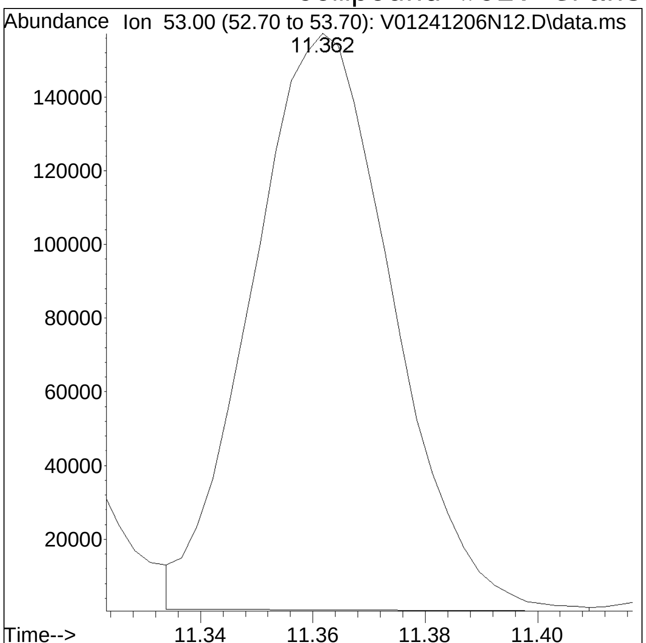
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

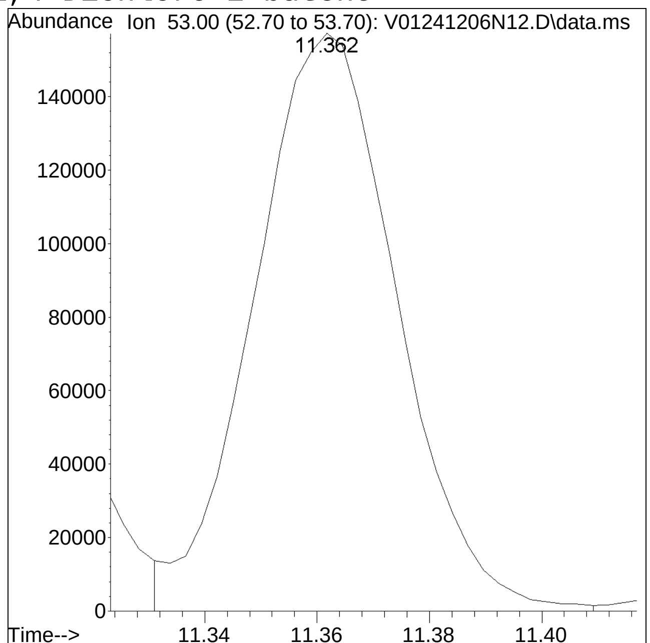
Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Data File : V01241206N12.D
Date Inj'd : 12/7/2024 4:23 am
Sample : I8260STD120PPB

Method : V101_241206N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 12/9/2024 7:42 am

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




Original Peak Response = 270760

Manual Peak Response = 276644 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N13.D
Acq On : 7 Dec 2024 4:49 am
Operator : VOA101:PID
Sample : I8260STD200PPB
Misc : WG2006865,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 09 07:42:11 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List : 8260-Curve - Megamix plus Diox

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) Fluorobenzene | 5.899 | 96 | 333040 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 319719 | | | Recovery | = 104.17% | |
| 59) Chlorobenzene-d5 | 9.413 | 117 | 274091 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 251130 | | | Recovery | = 109.14% | |
| 79) 1,4-Dichlorobenzene-d4 | 12.143 | 152 | 148976 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 133469 | | | Recovery | = 111.62% | |
| System Monitoring Compounds | | | | | |
| 36) Dibromofluoromethane | 5.101 | 113 | 93026 | 10.343 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 103.43% | |
| 43) 1,2-Dichloroethane-d4 | 5.614 | 65 | 103039 | 10.505 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 105.05% | |
| 60) Toluene-d8 | 7.578 | 98 | 336590 | 9.742 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 97.42% | |
| 83) 4-Bromofluorobenzene | 10.924 | 95 | 133769 | 9.671 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 96.71% | |
| Target Compounds | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.618 | 85 | 2105951 | 203.970 ug/L | 99 |
| 3) Chloromethane | 1.808 | 50 | 2145301 | 202.306 ug/L | 100 |
| 4) Vinyl chloride | 1.872 | 62 | 2326223 | 208.792 ug/L | 100 |
| 5) Bromomethane | 2.170 | 94 | 1294036 | 231.327 ug/L | 100 |
| 6) Chloroethane | 2.268 | 64 | 1265793 | 181.272 ug/L | 97 |
| 7) Trichlorofluoromethane | 2.413 | 101 | 2888536 | 199.381 ug/L | 98 |
| 8) Ethyl ether | 2.709 | 74 | 751491 | 194.797 ug/L | 81 |
| 10) 1,1-Dichloroethene | 2.890 | 96 | 1667811 | 199.749 ug/L | 90 |
| 11) Carbon disulfide | 2.918 | 76 | 5242362 | 204.993 ug/L | 100 |
| 12) Freon-113 | 2.923 | 101 | 1777385 | 201.306 ug/L # | 76 |
| 13) Iodomethane | 3.024 | 142 | 2418584 | 225.763 ug/L | 99 |
| 14) Acrolein | 3.202 | 56 | 204511 | 187.905 ug/L | 95 |
| 15) Methylene chloride | 3.431 | 84 | 1603724 | 198.206 ug/L | 89 |
| 17) Acetone | 3.475 | 43 | 300133 | 111.852 ug/L | 90 |
| 18) trans-1,2-Dichloroethene | 3.579 | 96 | 1708066 | 208.911 ug/L | 97 |
| 19) Methyl acetate | 3.587 | 43 | 705085 | 160.351 ug/L | 96 |
| 20) Methyl tert-butyl ether | 3.679 | 73 | 3581306 | 205.055 ug/L | 95 |
| 21) tert-Butyl alcohol | 3.779 | 59 | 449778 | 1068.286 ug/L | 96 |
| 22) Diisopropyl ether | 4.030 | 45 | 5936235 | 203.820 ug/L | 98 |
| 23) 1,1-Dichloroethane | 4.150 | 63 | 3252363 | 207.194 ug/L | 99 |
| 24) Halothane | 4.203 | 117 | 1369208 | 214.062 ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N13.D
Acq On : 7 Dec 2024 4:49 am
Operator : VOA101:PID
Sample : I8260STD200PPB
Misc : WG2006865,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 09 07:42:11 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List : 8260-Curve - Megamix plus Diox

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 25) Acrylonitrile | 4.195 | 53 | 358722 | 216.664 | ug/L | 99 |
| 26) Ethyl tert-butyl ether | 4.371 | 59 | 5093835 | 209.370 | ug/L | 93 |
| 27) Vinyl acetate | 4.379 | 43 | 2994331 | 209.338 | ug/L | 97 |
| 28) cis-1,2-Dichloroethene | 4.663 | 96 | 1850310 | 207.236 | ug/L | 96 |
| 29) 2,2-Dichloropropane | 4.761 | 77 | 2679553 | 207.475 | ug/L | 93 |
| 30) Bromochloromethane | 4.853 | 128 | 845829 | 204.027 | ug/L | 98 |
| 31) Cyclohexane | 4.856 | 56 | 3499719 | 211.237 | ug/L | 93 |
| 32) Chloroform | 4.926 | 83 | 2974950 | 204.619 | ug/L | 97 |
| 33) Ethyl acetate | 5.032 | 43 | 1103142 | 210.670 | ug/L | 96 |
| 34) Carbon tetrachloride | 5.057 | 117 | 2589803 | 217.283 | ug/L | 99 |
| 35) Tetrahydrofuran | 5.073 | 42 | 277620 | 179.919 | ug/L | 96 |
| 37) 1,1,1-Trichloroethane | 5.121 | 97 | 2766083 | 208.038 | ug/L | 98 |
| 39) 2-Butanone | 5.210 | 43 | 451594 | 138.243 | ug/L # | 81 |
| 40) 1,1-Dichloropropene | 5.241 | 75 | 2365678 | 208.514 | ug/L | 98 |
| 41) Benzene | 5.481 | 78 | 6685893 | 209.382 | ug/L | 96 |
| 42) tert-Amyl methyl ether | 5.595 | 73 | 3933192 | 208.496 | ug/L | 95 |
| 44) 1,2-Dichloroethane | 5.684 | 62 | 2124821 | 202.658 | ug/L | 99 |
| 47) Methyl cyclohexane | 6.063 | 83 | 3188131 | 216.352 | ug/L | 91 |
| 48) Trichloroethene | 6.075 | 95 | 1916729 | 215.771 | ug/L | 97 |
| 50) Dibromomethane | 6.512 | 93 | 915817 | 211.154 | ug/L | 96 |
| 51) 1,2-Dichloropropane | 6.610 | 63 | 1761244 | 205.949 | ug/L | 98 |
| 53) 2-Chloroethyl vinyl ether | 7.302 | 63 | 700997 | 215.137 | ug/L | 94 |
| 54) Bromodichloromethane | 6.685 | 83 | 2294461 | 208.003 | ug/L | 100 |
| 57) 1,4-Dioxane | 6.894 | 88 | 91596M1 | 2064.095 | ug/L | |
| 58) cis-1,3-Dichloropropene | 7.371 | 75 | 2680281 | 212.320 | ug/L # | 89 |
| 61) Toluene | 7.633 | 92 | 4529707 | 205.487 | ug/L | 97 |
| 62) 4-Methyl-2-pentanone | 8.060 | 58 | 402232 | 226.736 | ug/L | 99 |
| 63) Tetrachloroethene | 8.082 | 166 | 1924852 | 207.885 | ug/L | 98 |
| 65) trans-1,3-Dichloropropene | 8.116 | 75 | 2331908 | 215.266 | ug/L | 91 |
| 67) Ethyl methacrylate | 8.303 | 69 | 1530555 | 220.539 | ug/L | 100 |
| 68) 1,1,2-Trichloroethane | 8.300 | 83 | 1034094 | 202.442 | ug/L | 96 |
| 69) Chlorodibromomethane | 8.515 | 129 | 1684033 | 214.582 | ug/L | 99 |
| 70) 1,3-Dichloropropane | 8.618 | 76 | 2058824 | 200.689 | ug/L | 99 |
| 71) 1,2-Dibromoethane | 8.785 | 107 | 1226682 | 205.892 | ug/L | 99 |
| 72) 2-Hexanone | 9.067 | 43 | 713949 | 213.307 | ug/L | 99 |
| 73) Chlorobenzene | 9.435 | 112 | 5120874 | 203.097 | ug/L | 97 |
| 74) Ethylbenzene | 9.474 | 91 | 9029461 | 207.699 | ug/L | 98 |
| 75) 1,1,1,2-Tetrachloroethane | 9.521 | 131 | 1837588 | 210.379 | ug/L | 99 |
| 76) p/m Xylene | 9.663 | 106 | 7144028 | 413.092 | ug/L | 98 |
| 77) o Xylene | 10.207 | 106 | 6766710 | 410.329 | ug/L | 98 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N13.D
Acq On : 7 Dec 2024 4:49 am
Operator : VOA101:PID
Sample : I8260STD200PPB
Misc : WG2006865,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 09 07:42:11 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List : 8260-Curve - Megamix plus Diox

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 78) | Styrene | 10.277 | 104 | 11286057 | 413.501 | ug/L | 99 |
| 80) | Bromoform | 10.305 | 173 | 931912 | 221.153 | ug/L | 100 |
| 82) | Isopropylbenzene | 10.595 | 105 | 9185444 | 202.561 | ug/L | 100 |
| 84) | Bromobenzene | 11.033 | 156 | 1994539 | 200.370 | ug/L | 99 |
| 85) | n-Propylbenzene | 11.083 | 91 | 10524424 | 201.862 | ug/L | 98 |
| 86) | 1,4-Dichlorobutane | 11.094 | 55 | 2236646 | 190.736 | ug/L | 98 |
| 87) | 1,1,2,2-Tetrachloroethane | 11.175 | 83 | 1389693 | 198.615 | ug/L | 99 |
| 88) | 4-Ethyltoluene | 11.211 | 105 | 8835702 | 203.902 | ug/L | 100 |
| 89) | 2-Chlorotoluene | 11.250 | 91 | 5999574M1 | 200.578 | ug/L | |
| 90) | 1,3,5-Trimethylbenzene | 11.312 | 105 | 7598528 | 205.463 | ug/L | 98 |
| 91) | 1,2,3-Trichloropropane | 11.309 | 75 | 1142193M1 | 200.016 | ug/L | |
| 92) | trans-1,4-Dichloro-2-b... | 11.362 | 53 | 467513M1 | 208.133 | ug/L | |
| 93) | 4-Chlorotoluene | 11.437 | 91 | 6211360 | 204.379 | ug/L | 100 |
| 94) | tert-Butylbenzene | 11.649 | 119 | 6384224 | 203.993 | ug/L | 99 |
| 97) | 1,2,4-Trimethylbenzene | 11.730 | 105 | 7298565 | 204.233 | ug/L | 99 |
| 98) | sec-Butylbenzene | 11.844 | 105 | 9220506 | 204.130 | ug/L | 99 |
| 99) | p-Isopropyltoluene | 12.000 | 119 | 7901733 | 205.543 | ug/L | 99 |
| 100) | 1,3-Dichlorobenzene | 12.065 | 146 | 3834852 | 203.222 | ug/L | 98 |
| 101) | 1,4-Dichlorobenzene | 12.159 | 146 | 3831160 | 200.689 | ug/L | 98 |
| 102) | p-Diethylbenzene | 12.374 | 119 | 4589053 | 210.001 | ug/L | 97 |
| 103) | n-Butylbenzene | 12.433 | 91 | 6453315 | 208.841 | ug/L | 99 |
| 104) | 1,2-Dichlorobenzene | 12.583 | 146 | 3372401 | 205.457 | ug/L | 98 |
| 105) | 1,2,4,5-Tetramethylben... | 13.172 | 119 | 6323898 | 208.948 | ug/L | 98 |
| 106) | 1,2-Dibromo-3-chloropr... | 13.364 | 155 | 200813 | 227.877 | ug/L | 98 |
| 107) | 1,3,5-Trichlorobenzene | 13.397 | 180 | 2196422 | 207.529 | ug/L | 97 |
| 108) | Hexachlorobutadiene | 13.972 | 225 | 803532 | 205.679 | ug/L | 99 |
| 109) | 1,2,4-Trichlorobenzene | 13.997 | 180 | 1772896 | 210.393 | ug/L | 98 |
| 110) | Naphthalene | 14.287 | 128 | 3523596 | 205.255 | ug/L | 100 |
| 111) | 1,2,3-Trichlorobenzene | 14.457 | 180 | 1344284 | 207.537 | ug/L | 99 |

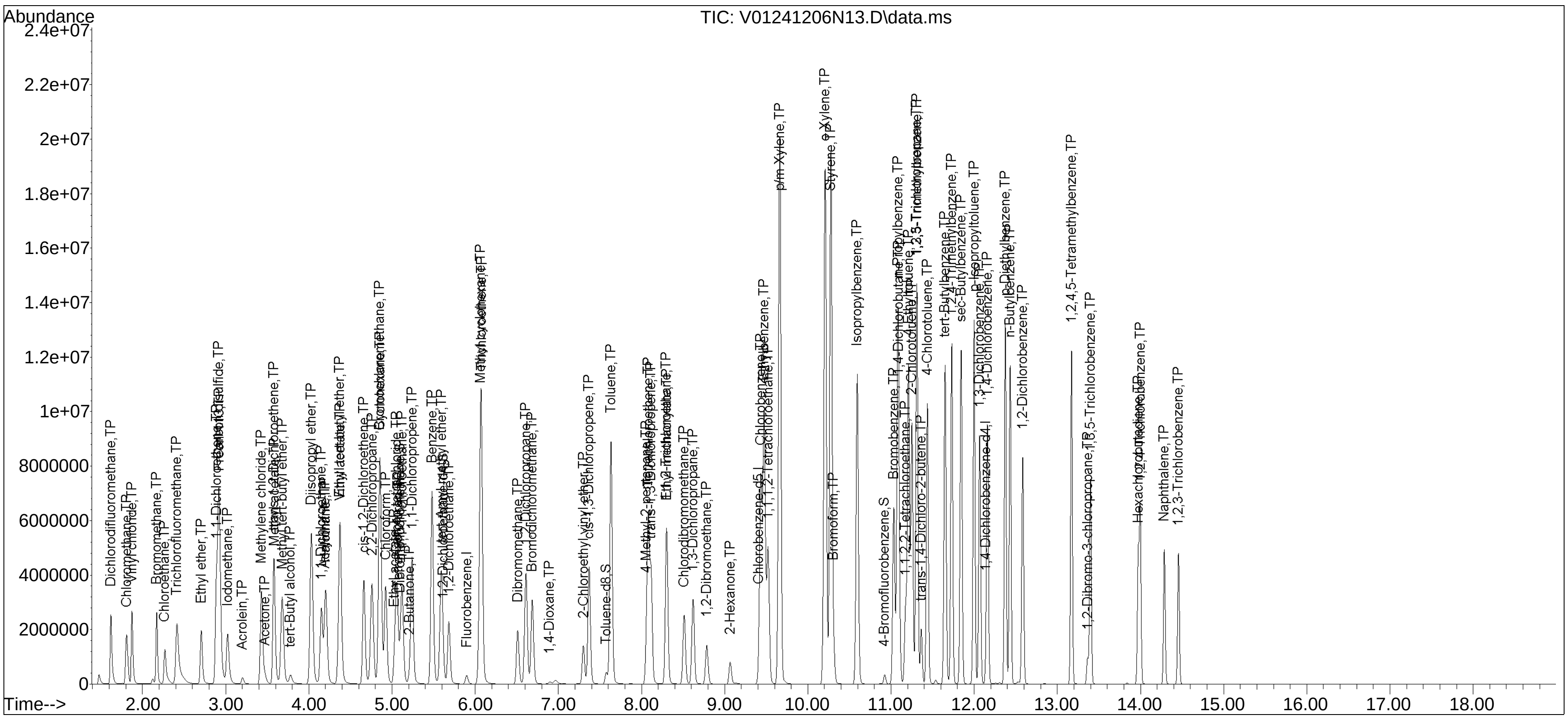
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N13.D
Acq On    :  7 Dec 2024   4:49 am
Operator  : VOA101:PID
Sample    : I8260STD200PPB
Misc      : WG2006865,ICAL
ALS Vial  : 13   Sample Multiplier: 1

Quant Time: Dec 09 07:42:11 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:41:08 2024
Response via : Initial Calibration

Sub List     : 8260-Curve - Megamix plus Diox\V01241206N09.D•

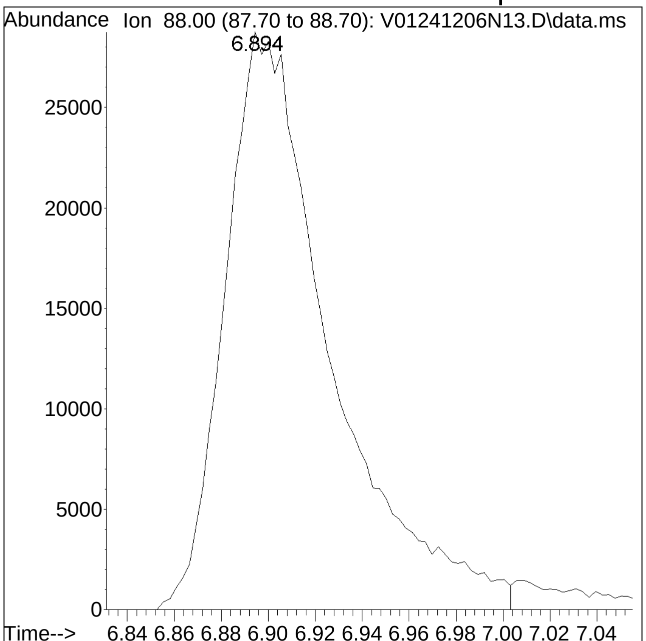


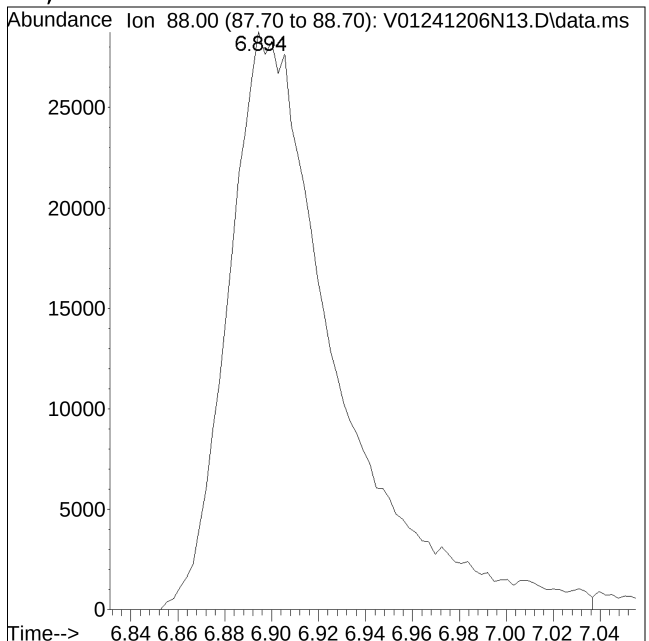
Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Data File : V01241206N13.D
Date Inj'd : 12/7/2024 4:49 am
Sample : I8260STD200PPB

Method : V101_241206N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 12/9/2024 7:42 am

Compound #57: 1,4-Dioxane




Original Peak Response = 89452

Manual Peak Response = 91596 M1

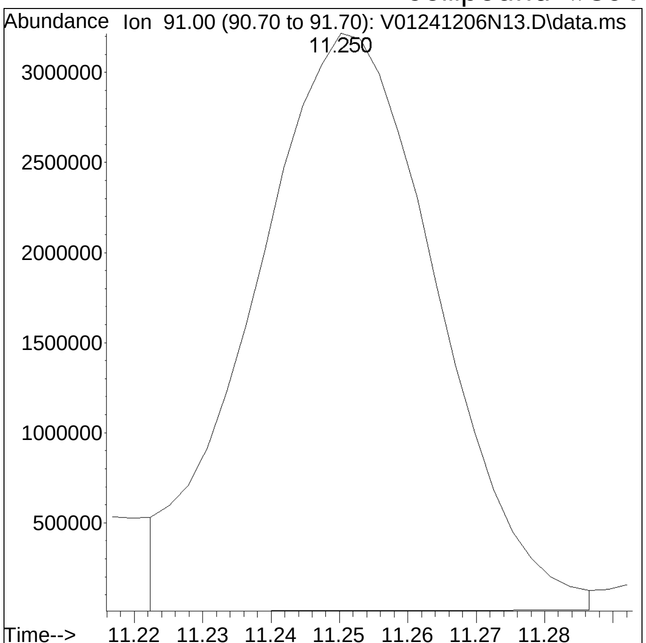
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

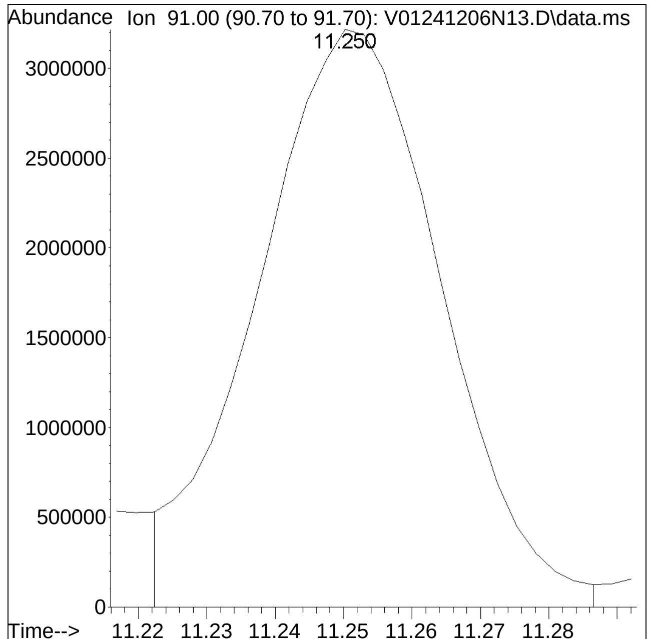
Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Data File : V01241206N13.D
Date Inj'd : 12/7/2024 4:49 am
Sample : I8260STD200PPB

Method : V101_241206N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 12/9/2024 7:42 am

Compound #89: 2-Chlorotoluene



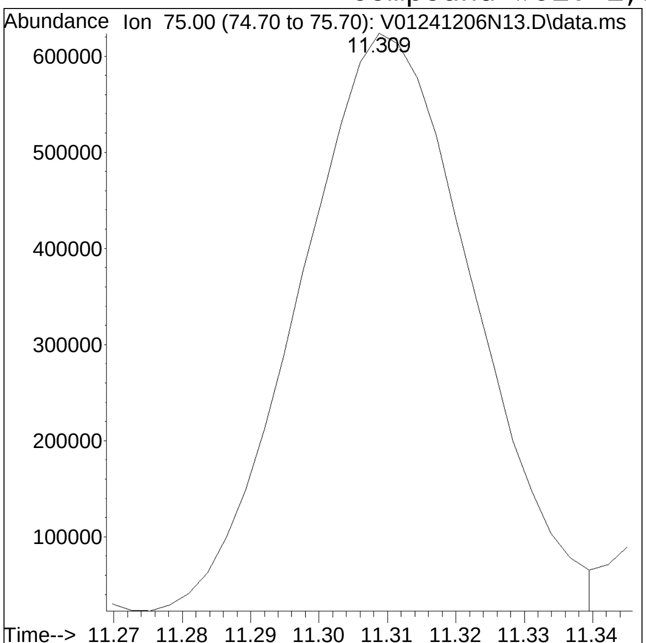



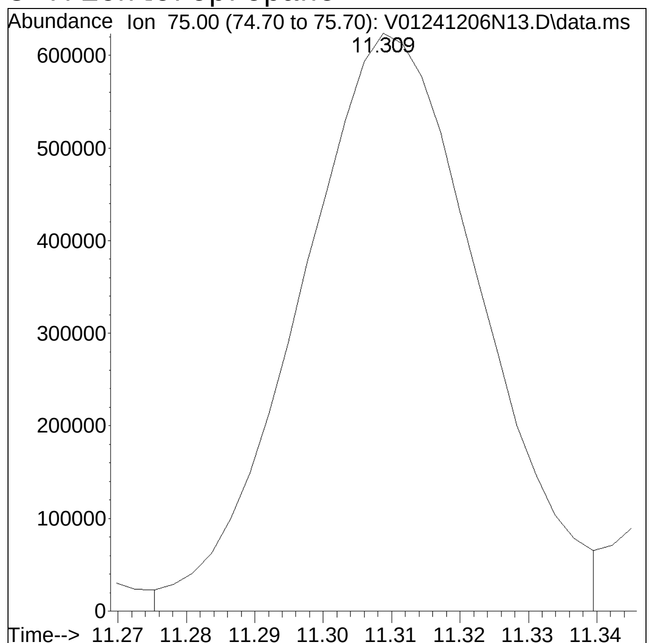

Original Peak Response = 5950362 Manual Peak Response = 5999574 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQMethod : V101_241206N_8260.m
Data File : V01241206N13.D Operator : VOA101:PID
Date Inj'd : 12/7/2024 4:49 am Instrument : VOA 101
Sample : I8260STD200PPB Quant Date : 12/9/2024 7:42 am

Compound #91: 1,2,3-Trichloropropane



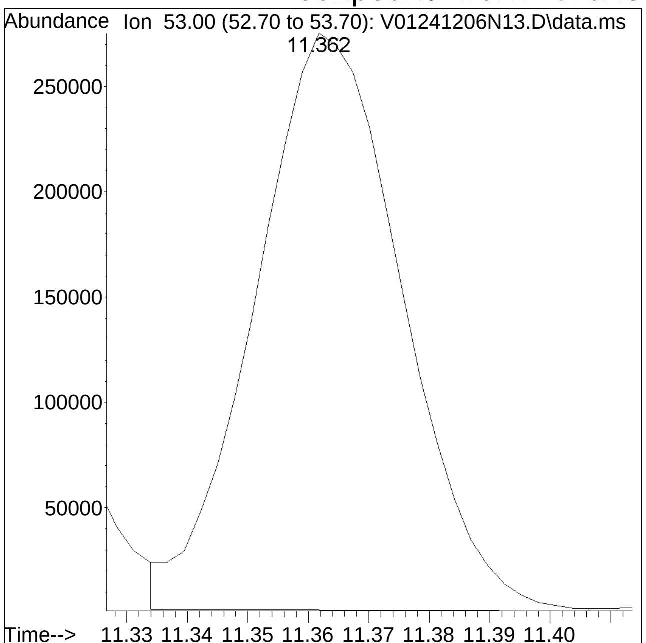



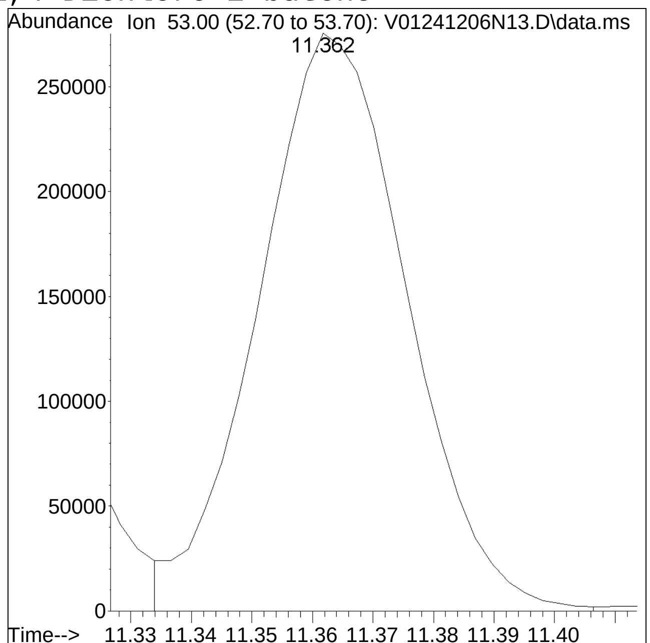

Original Peak Response = 1053943 Manual Peak Response = 1142193 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA101\2024\241206NICALQ | Method | : V101_241206N_8260.m |
| Data File | : V01241206N13.D | Operator | : VOA101:PID |
| Date Inj'd | : 12/7/2024 4:49 am | Instrument | : VOA 101 |
| Sample | : I8260STD200PPB | Quant Date | : 12/9/2024 7:42 am |

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




Original Peak Response = 461360 Manual Peak Response = 467513 M1

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

Evaluate Continuing Calibration Report

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N18.D
Acq On : 7 Dec 2024 6:58 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG2006865,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 09 07:47:35 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

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

| | | Compound | | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|---|
| 1 | I | Fluorobenzene | | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 2 | TP | Dichlorodifluoromethane | | 0.310 | 0.317 | -2.3 | 96 | 0.00 |
| 3 | TP | Chloromethane | | 0.318 | 0.365 | -14.8 | 110 | 0.00 |
| 4 | TP | Vinyl chloride | | 0.335 | 0.362 | -8.1 | 100 | 0.00 |
| 5 | TP | Bromomethane | | 0.168 | 0.235 | -39.9# | 144 | 0.00 |
| 6 | TP | Chloroethane | | 0.210 | 0.232 | -10.5 | 101 | 0.00 |
| 7 | TP | Trichlorofluoromethane | | 0.435 | 0.485 | -11.5 | 103 | 0.00 |
| 8 | TP | Ethyl ether | | 0.116 | 0.132 | -13.8 | 110 | 0.00 |
| 10 | TP | 1,1-Dichloroethene | | 0.251 | 0.243 | 3.2 | 92 | 0.00 |
| 11 | TP | Carbon disulfide | | 0.768 | 0.790 | -2.9 | 102 | 0.00 |
| 12 | TP | Freon-113 | | 0.265 | 0.279 | -5.3 | 98 | 0.00 |
| 13 | TP | Iodomethane | | 0.345 | 0.303 | 12.2 | 91 | 0.00 |
| 14 | TP | Acrolein | | 0.030 | 0.025 | 16.7 | 86 | 0.00 |
| 15 | TP | Methylene chloride | | 0.243 | 0.227 | 6.6 | 93 | 0.00 |
| 17 | TP | Acetone | * | 10.000 | 9.170 | 8.3 | 99 | 0.00 |
| 18 | TP | trans-1,2-Dichloroethene | | 0.245 | 0.240 | 2.0 | 95 | 0.00 |
| 19 | TP | Methyl acetate | | 0.114 | 0.111 | 2.6 | 101 | 0.00 |
| 20 | TP | Methyl tert-butyl ether | | 0.524 | 0.488 | 6.9 | 92 | 0.00 |
| 21 | TP | tert-Butyl alcohol | | 0.013 | 0.013 | 0.0 | 96 | 0.00 |
| 22 | TP | Diisopropyl ether | | 0.875 | 0.817 | 6.6 | 91 | 0.00 |
| 23 | TP | 1,1-Dichloroethane | | 0.471 | 0.466 | 1.1 | 95 | 0.00 |
| 24 | TP | Halothane | | 0.192 | 0.194 | -1.0 | 98 | 0.00 |
| 25 | TP | Acrylonitrile | | 0.050 | 0.051 | -2.0 | 101 | 0.00 |
| 26 | TP | Ethyl tert-butyl ether | | 0.731 | 0.691 | 5.5 | 94 | 0.00 |
| 27 | TP | Vinyl acetate | | 0.429 | 0.423 | 1.4 | 104 | 0.00 |
| 28 | TP | cis-1,2-Dichloroethene | | 0.268 | 0.260 | 3.0 | 93 | 0.00 |
| 29 | TP | 2,2-Dichloropropane | | 0.388 | 0.357 | 8.0 | 93 | 0.00 |
| 30 | TP | Bromochloromethane | | 0.124 | 0.122 | 1.6 | 97 | 0.00 |
| 31 | TP | Cyclohexane | | 0.497 | 0.471 | 5.2 | 91 | 0.00 |
| 32 | TP | Chloroform | | 0.437 | 0.431 | 1.4 | 96 | 0.00 |
| 33 | TP | Ethyl acetate | | 0.157 | 0.157 | 0.0 | 96 | 0.00 |
| 34 | TP | Carbon tetrachloride | | 0.358 | 0.363 | -1.4 | 96 | 0.00 |
| 35 | TP | Tetrahydrofuran | | 0.046 | 0.046 | 0.0 | 98 | 0.00 |
| 36 | S | Dibromofluoromethane | | 0.270 | 0.266 | 1.5 | 98 | 0.00 |
| 37 | TP | 1,1,1-Trichloroethane | | 0.399 | 0.397 | 0.5 | 95 | 0.00 |
| 39 | TP | 2-Butanone | | 0.073 | 0.073 | 0.0 | 101 | 0.00 |
| 40 | TP | 1,1-Dichloropropene | | 0.341 | 0.350 | -2.6 | 98 | 0.00 |
| 41 | TP | Benzene | | 0.959 | 0.940 | 2.0 | 94 | 0.00 |
| 42 | TP | tert-Amyl methyl ether | | 0.566 | 0.524 | 7.4 | 91 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N18.D
Acq On : 7 Dec 2024 6:58 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG2006865,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 09 07:47:35 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 43 | S | 1,2-Dichloroethane-d4 | 0.295 | 0.291 | 1.4 | 98 | 0.00 |
| 44 | TP | 1,2-Dichloroethane | 0.315 | 0.315 | 0.0 | 97 | 0.00 |
| 47 | TP | Methyl cyclohexane | 0.442 | 0.426 | 3.6 | 93 | 0.00 |
| 48 | TP | Trichloroethene | 0.267 | 0.268 | -0.4 | 96 | 0.00 |
| 50 | TP | Dibromomethane | 0.130 | 0.130 | 0.0 | 98 | 0.00 |
| 51 | TP | 1,2-Dichloropropane | 0.257 | 0.256 | 0.4 | 96 | 0.00 |
| 53 | TP | 2-Chloroethyl vinyl ether | 0.098 | 0.103 | -5.1 | 96 | 0.00 |
| 54 | TP | Bromodichloromethane | 0.331 | 0.317 | 4.2 | 94 | 0.00 |
| 57 | TP | 1,4-Dioxane | 0.00133 | 0.00140# | -5.3 | 101 | 0.00 |
| 58 | TP | cis-1,3-Dichloropropene | 0.379 | 0.369 | 2.6 | 95 | 0.00 |
| | | | | | | | |
| 59 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 97 | 0.00 |
| 60 | S | Toluene-d8 | 1.261 | 1.277 | -1.3 | 98 | 0.00 |
| 61 | TP | Toluene | 0.804 | 0.800 | 0.5 | 94 | 0.00 |
| 62 | TP | 4-Methyl-2-pentanone | 0.070 | 0.070 | 0.0 | 97 | 0.00 |
| 63 | TP | Tetrachloroethene | 0.338 | 0.348 | -3.0 | 97 | 0.00 |
| 65 | TP | trans-1,3-Dichloropropene | 0.395 | 0.401 | -1.5 | 99 | 0.00 |
| 67 | TP | Ethyl methacrylate | 0.253 | 0.273 | -7.9 | 105 | 0.00 |
| 68 | TP | 1,1,2-Trichloroethane | 0.186 | 0.187# | -0.5 | 96 | 0.00 |
| 69 | TP | Chlorodibromomethane | 0.286 | 0.284 | 0.7 | 96 | 0.00 |
| 70 | TP | 1,3-Dichloropropane | 0.374 | 0.385 | -2.9 | 97 | 0.00 |
| 71 | TP | 1,2-Dibromoethane | 0.217 | 0.222 | -2.3 | 97 | 0.00 |
| 72 | TP | 2-Hexanone | 0.122 | 0.122 | 0.0 | 95 | 0.00 |
| 73 | TP | Chlorobenzene | 0.920 | 0.926 | -0.7 | 97 | 0.00 |
| 74 | TP | Ethylbenzene | 1.586 | 1.585 | 0.1 | 95 | 0.00 |
| 75 | TP | 1,1,1,2-Tetrachloroethane | 0.319 | 0.321 | -0.6 | 97 | 0.00 |
| 76 | TP | p/m Xylene | 0.631 | 0.628 | 0.5 | 95 | 0.00 |
| 77 | TP | o Xylene | 0.602 | 0.600 | 0.3 | 95 | 0.00 |
| 78 | TP | Styrene | 0.996 | 0.993 | 0.3 | 96 | 0.00 |
| | | | | | | | |
| 79 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 80 | TP | Bromoform | 0.283 | 0.285 | -0.7 | 99 | 0.00 |
| 82 | TP | Isopropylbenzene | 3.044 | 3.029 | 0.5 | 95 | 0.00 |
| 83 | S | 4-Bromofluorobenzene | 0.928 | 0.926 | 0.2 | 97 | 0.00 |
| 84 | TP | Bromobenzene | 0.668 | 0.670 | -0.3 | 96 | 0.00 |
| 85 | TP | n-Propylbenzene | 3.500 | 3.515 | -0.4 | 96 | 0.00 |
| 86 | TP | 1,4-Dichlorobutane | 0.787 | 0.799 | -1.5 | 103 | 0.00 |
| 87 | TP | 1,1,2,2-Tetrachloroethane | 0.470 | 0.448 | 4.7 | 95 | 0.00 |
| 88 | TP | 4-Ethyltoluene | 2.909 | 3.019 | -3.8 | 99 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N18.D
Acq On : 7 Dec 2024 6:58 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG2006865,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 09 07:47:35 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 89 | TP | 2-Chlorotoluene | 2.008 | 2.048 | -2.0 | 97 | 0.00 |
| 90 | TP | 1,3,5-Trimethylbenzene | 2.482 | 2.443 | 1.6 | 95 | 0.00 |
| 91 | TP | 1,2,3-Trichloropropane | 0.383 | 0.384 | -0.3 | 97 | 0.00 |
| 92 | TP | trans-1,4-Dichloro-2-butene | 0.151 | 0.150 | 0.7 | 98 | 0.00 |
| 93 | TP | 4-Chlorotoluene | 2.040 | 2.050 | -0.5 | 96 | 0.00 |
| 94 | TP | tert-Butylbenzene | 2.101 | 2.110 | -0.4 | 95 | 0.00 |
| 97 | TP | 1,2,4-Trimethylbenzene | 2.399 | 2.462 | -2.6 | 98 | 0.00 |
| 98 | TP | sec-Butylbenzene | 3.032 | 3.008 | 0.8 | 94 | 0.00 |
| 99 | TP | p-Isopropyltoluene | 2.580 | 2.586 | -0.2 | 95 | 0.00 |
| 100 | TP | 1,3-Dichlorobenzene | 1.267 | 1.292 | -2.0 | 98 | 0.00 |
| 101 | TP | 1,4-Dichlorobenzene | 1.281 | 1.294 | -1.0 | 97 | 0.00 |
| 102 | TP | p-Diethylbenzene | 1.467 | 1.463 | 0.3 | 95 | 0.00 |
| 103 | TP | n-Butylbenzene | 2.074 | 2.138 | -3.1 | 99 | 0.00 |
| 104 | TP | 1,2-Dichlorobenzene | 1.102 | 1.134 | -2.9 | 98 | 0.00 |
| 105 | TP | 1,2,4,5-Tetramethylbenzene | 2.032 | 2.079 | -2.3 | 99 | 0.00 |
| 106 | TP | 1,2-Dibromo-3-chloropropane | 0.059 | 0.062 | -5.1 | 104 | 0.00 |
| 107 | TP | 1,3,5-Trichlorobenzene | 0.710 | 0.702 | 1.1 | 97 | 0.00 |
| 108 | TP | Hexachlorobutadiene | 0.262 | 0.267 | -1.9 | 104 | 0.00 |
| 109 | TP | 1,2,4-Trichlorobenzene | 0.566 | 0.571 | -0.9 | 98 | 0.00 |
| 110 | TP | Naphthalene | 1.152 | 1.164 | -1.0 | 99 | 0.00 |
| 111 | TP | 1,2,3-Trichlorobenzene | 0.435 | 0.443 | -1.8 | 100 | 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:\VOA101\2024\241206NICAL\
Data File : V01241206N18.D
Acq On : 7 Dec 2024 6:58 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG2006865,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 09 07:47:35 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List : 8260-Curve - Megamix plus Diox

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) Fluorobenzene | 5.896 | 96 | 312586 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 319719 | | | Recovery | = 97.77% | |
| 59) Chlorobenzene-d5 | 9.412 | 117 | 244343 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 251130 | | | Recovery | = 97.30% | |
| 79) 1,4-Dichlorobenzene-d4 | 12.142 | 152 | 130225 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 133469 | | | Recovery | = 97.57% | |
| System Monitoring Compounds | | | | | |
| 36) Dibromofluoromethane | 5.098 | 113 | 83102 | 9.844 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 98.44% | |
| 43) 1,2-Dichloroethane-d4 | 5.620 | 65 | 90874 | 9.871 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 98.71% | |
| 60) Toluene-d8 | 7.577 | 98 | 311954 | 10.128 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 101.28% | |
| 83) 4-Bromofluorobenzene | 10.921 | 95 | 120645 | 9.979 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 99.79% | |
| Target Compounds | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.624 | 85 | 99163 | 10.233 ug/L | 99 |
| 3) Chloromethane | 1.808 | 50 | 114146 | 11.469 ug/L | 99 |
| 4) Vinyl chloride | 1.875 | 62 | 113065 | 10.812 ug/L | 98 |
| 5) Bromomethane | 2.173 | 94 | 73581 | 14.014 ug/L | 99 |
| 6) Chloroethane | 2.279 | 64 | 72466 | 11.057 ug/L | 98 |
| 7) Trichlorofluoromethane | 2.416 | 101 | 151707 | 11.157 ug/L | 97 |
| 8) Ethyl ether | 2.709 | 74 | 41121 | 11.357 ug/L | 83 |
| 10) 1,1-Dichloroethene | 2.893 | 96 | 76050 | 9.704 ug/L | 93 |
| 11) Carbon disulfide | 2.920 | 76 | 247059 | 10.293 ug/L | 100 |
| 12) Freon-113 | 2.923 | 101 | 87253 | 10.529 ug/L | 82 |
| 13) Iodomethane | 3.024 | 142 | 94627 | 8.776 ug/L | 99 |
| 14) Acrolein | 3.205 | 56 | 7822 | 8.392 ug/L | 100 |
| 15) Methylene chloride | 3.434 | 84 | 70844 | 9.329 ug/L | 90 |
| 17) Acetone | 3.481 | 43 | 15102 | 9.170 ug/L | 94 |
| 18) trans-1,2-Dichloroethene | 3.581 | 96 | 74984 | 9.771 ug/L | 96 |
| 19) Methyl acetate | 3.593 | 43 | 34656 | 9.758 ug/L # | 83 |
| 20) Methyl tert-butyl ether | 3.687 | 73 | 152647 | 9.312 ug/L | 94 |
| 21) tert-Butyl alcohol | 3.788 | 59 | 19663 | 49.758 ug/L | 97 |
| 22) Diisopropyl ether | 4.033 | 45 | 255376 | 9.342 ug/L | 98 |
| 23) 1,1-Dichloroethane | 4.156 | 63 | 145695 | 9.889 ug/L | 99 |
| 24) Halothane | 4.206 | 117 | 60681 | 10.108 ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N18.D
Acq On : 7 Dec 2024 6:58 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG2006865,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 09 07:47:35 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List : 8260-Curve - Megamix plus Diox

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 25) Acrylonitrile | 4.203 | 53 | 16054 | 10.331 ug/L | 97 |
| 26) Ethyl tert-butyl ether | 4.376 | 59 | 215877 | 9.454 ug/L | 94 |
| 27) Vinyl acetate | 4.384 | 43 | 132081 | 9.838 ug/L | 96 |
| 28) cis-1,2-Dichloroethene | 4.663 | 96 | 81170 | 9.686 ug/L | 97 |
| 29) 2,2-Dichloropropane | 4.764 | 77 | 111736 | 9.218 ug/L | 90 |
| 30) Bromochloromethane | 4.853 | 128 | 38245 | 9.829 ug/L | 96 |
| 31) Cyclohexane | 4.859 | 56 | 147132 | 9.462 ug/L | 93 |
| 32) Chloroform | 4.925 | 83 | 134584 | 9.862 ug/L | 98 |
| 33) Ethyl acetate | 5.037 | 43 | 49007 | 9.971 ug/L | 97 |
| 34) Carbon tetrachloride | 5.057 | 117 | 113469 | 10.143 ug/L | 98 |
| 35) Tetrahydrofuran | 5.084 | 42 | 14380M1 | 9.929 ug/L | |
| 37) 1,1,1-Trichloroethane | 5.121 | 97 | 124231 | 9.955 ug/L | 98 |
| 39) 2-Butanone | 5.221 | 43 | 22849 | 10.019 ug/L # | 79 |
| 40) 1,1-Dichloropropene | 5.243 | 75 | 109429 | 10.276 ug/L | 98 |
| 41) Benzene | 5.483 | 78 | 293969 | 9.809 ug/L | 96 |
| 42) tert-Amyl methyl ether | 5.598 | 73 | 163750 | 9.248 ug/L | 93 |
| 44) 1,2-Dichloroethane | 5.687 | 62 | 98475 | 10.007 ug/L | 99 |
| 47) Methyl cyclohexane | 6.066 | 83 | 133213 | 9.632 ug/L | 92 |
| 48) Trichloroethene | 6.077 | 95 | 83820 | 10.053 ug/L | 96 |
| 50) Dibromomethane | 6.515 | 93 | 40590 | 9.971 ug/L | 97 |
| 51) 1,2-Dichloropropane | 6.613 | 63 | 80014 | 9.969 ug/L | 98 |
| 53) 2-Chloroethyl vinyl ether | 7.307 | 63 | 32130M1 | 10.506 ug/L | |
| 54) Bromodichloromethane | 6.691 | 83 | 99160 | 9.578 ug/L | 99 |
| 57) 1,4-Dioxane | 6.900 | 88 | 21855M1 | 524.724 ug/L | |
| 58) cis-1,3-Dichloropropene | 7.374 | 75 | 115235 | 9.726 ug/L # | 89 |
| 61) Toluene | 7.630 | 92 | 195491 | 9.948 ug/L | 99 |
| 62) 4-Methyl-2-pentanone | 8.071 | 58 | 17072 | 9.957 ug/L | 91 |
| 63) Tetrachloroethene | 8.082 | 166 | 85144 | 10.315 ug/L | 98 |
| 65) trans-1,3-Dichloropropene | 8.118 | 75 | 97920 | 10.140 ug/L | 89 |
| 67) Ethyl methacrylate | 8.308 | 69 | 66623 | 10.769 ug/L | 99 |
| 68) 1,1,2-Trichloroethane | 8.300 | 83 | 45607 | 10.015 ug/L | 96 |
| 69) Chlorodibromomethane | 8.512 | 129 | 69338 | 9.911 ug/L | 100 |
| 70) 1,3-Dichloropropane | 8.620 | 76 | 93983 | 10.277 ug/L | 99 |
| 71) 1,2-Dibromoethane | 8.791 | 107 | 54271 | 10.218 ug/L | 98 |
| 72) 2-Hexanone | 9.078 | 43 | 29785 | 9.982 ug/L # | 91 |
| 73) Chlorobenzene | 9.435 | 112 | 226151 | 10.061 ug/L | 97 |
| 74) Ethylbenzene | 9.468 | 91 | 387371 | 9.995 ug/L | 98 |
| 75) 1,1,1,2-Tetrachloroethane | 9.513 | 131 | 78507 | 10.082 ug/L | 98 |
| 76) p/m Xylene | 9.658 | 106 | 306826 | 19.902 ug/L | 95 |
| 77) o Xylene | 10.202 | 106 | 293099 | 19.937 ug/L | 95 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N18.D
Acq On : 7 Dec 2024 6:58 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG2006865,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 09 07:47:35 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241206NICAL\V01241206N09.D
Sub List : 8260-Curve - Megamix plus Diox

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 78) | Styrene | 10.271 | 104 | 485453 | 19.952 | ug/L | 97 |
| 80) | Bromoform | 10.302 | 173 | 37177 | 10.093 | ug/L | 99 |
| 82) | Isopropylbenzene | 10.592 | 105 | 394389 | 9.950 | ug/L | 100 |
| 84) | Bromobenzene | 11.033 | 156 | 87265 | 10.029 | ug/L | 99 |
| 85) | n-Propylbenzene | 11.080 | 91 | 457729 | 10.044 | ug/L | 98 |
| 86) | 1,4-Dichlorobutane | 11.094 | 55 | 104055 | 10.151 | ug/L | 96 |
| 87) | 1,1,2,2-Tetrachloroethane | 11.169 | 83 | 58297 | 9.532 | ug/L | 98 |
| 88) | 4-Ethyltoluene | 11.206 | 105 | 393145 | 10.379 | ug/L | 100 |
| 89) | 2-Chlorotoluene | 11.247 | 91 | 266692M1 | 10.200 | ug/L | |
| 90) | 1,3,5-Trimethylbenzene | 11.306 | 105 | 318081 | 9.839 | ug/L | 100 |
| 91) | 1,2,3-Trichloropropane | 11.309 | 75 | 49974M1 | 10.011 | ug/L | |
| 92) | trans-1,4-Dichloro-2-b... | 11.362 | 53 | 19469M1 | 9.915 | ug/L | |
| 93) | 4-Chlorotoluene | 11.431 | 91 | 267013 | 10.051 | ug/L | 99 |
| 94) | tert-Butylbenzene | 11.646 | 119 | 274817 | 10.046 | ug/L | 98 |
| 97) | 1,2,4-Trimethylbenzene | 11.730 | 105 | 320572 | 10.262 | ug/L | 99 |
| 98) | sec-Butylbenzene | 11.839 | 105 | 391763 | 9.922 | ug/L | 99 |
| 99) | p-Isopropyltoluene | 11.997 | 119 | 336822 | 10.023 | ug/L | 99 |
| 100) | 1,3-Dichlorobenzene | 12.064 | 146 | 168192 | 10.196 | ug/L | 99 |
| 101) | 1,4-Dichlorobenzene | 12.156 | 146 | 168480 | 10.096 | ug/L | 99 |
| 102) | p-Diethylbenzene | 12.371 | 119 | 190532 | 9.974 | ug/L | 98 |
| 103) | n-Butylbenzene | 12.430 | 91 | 278424 | 10.308 | ug/L | 99 |
| 104) | 1,2-Dichlorobenzene | 12.583 | 146 | 147657 | 10.291 | ug/L | 99 |
| 105) | 1,2,4,5-Tetramethylben... | 13.169 | 119 | 270787 | 10.235 | ug/L | 98 |
| 106) | 1,2-Dibromo-3-chloropr... | 13.367 | 155 | 8049 | 10.449 | ug/L | 98 |
| 107) | 1,3,5-Trichlorobenzene | 13.397 | 180 | 91398 | 9.879 | ug/L | 97 |
| 108) | Hexachlorobutadiene | 13.975 | 225 | 34835 | 10.201 | ug/L | 99 |
| 109) | 1,2,4-Trichlorobenzene | 14.000 | 180 | 74355 | 10.094 | ug/L | 99 |
| 110) | Naphthalene | 14.290 | 128 | 151591 | 10.102 | ug/L | 100 |
| 111) | 1,2,3-Trichlorobenzene | 14.460 | 180 | 57750 | 10.200 | ug/L | 99 |

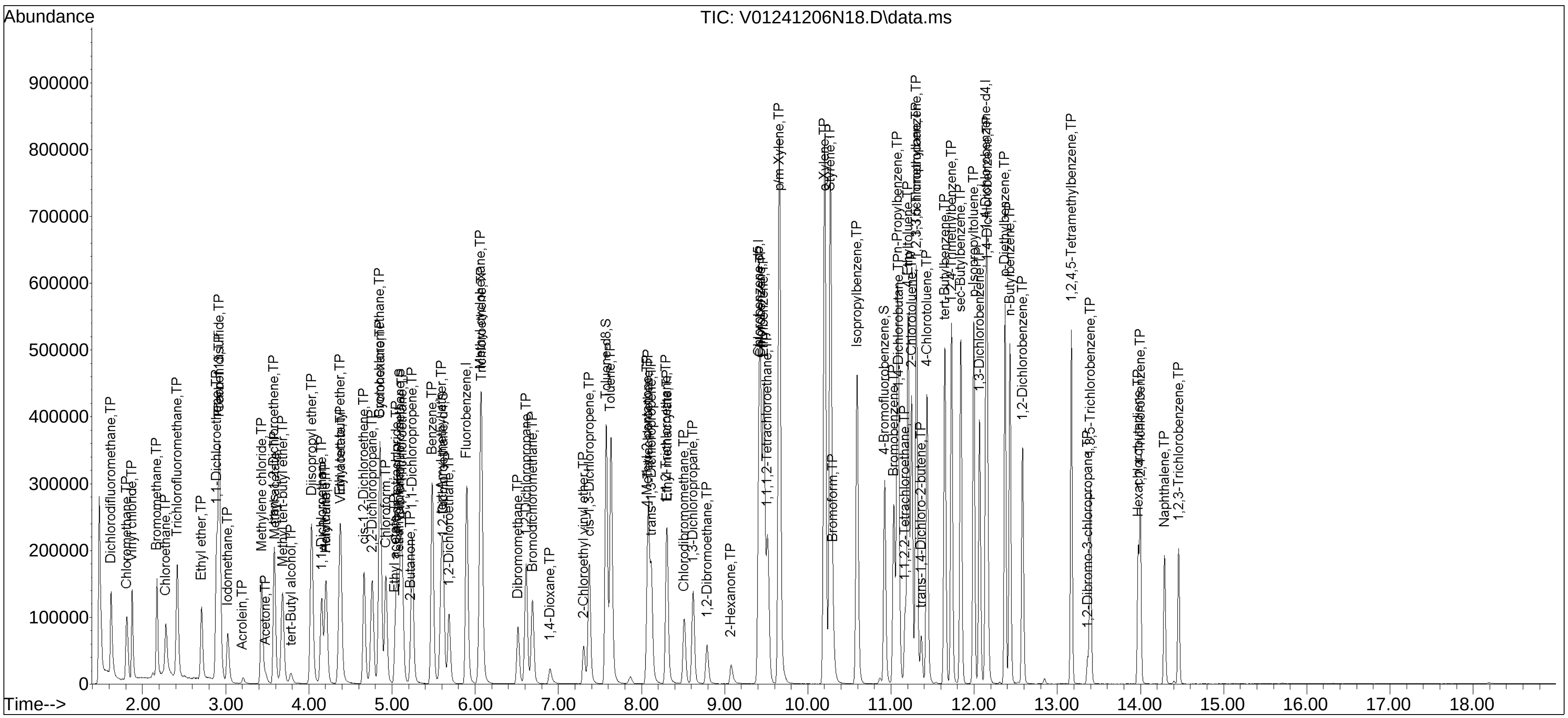
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241206NICAL\
Data File : V01241206N18.D
Acq On : 7 Dec 2024 6:58 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG2006865,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 09 07:47:35 2024
Quant Method : K:\VOA101\2024\241206NICAL\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V01241206N09.D•

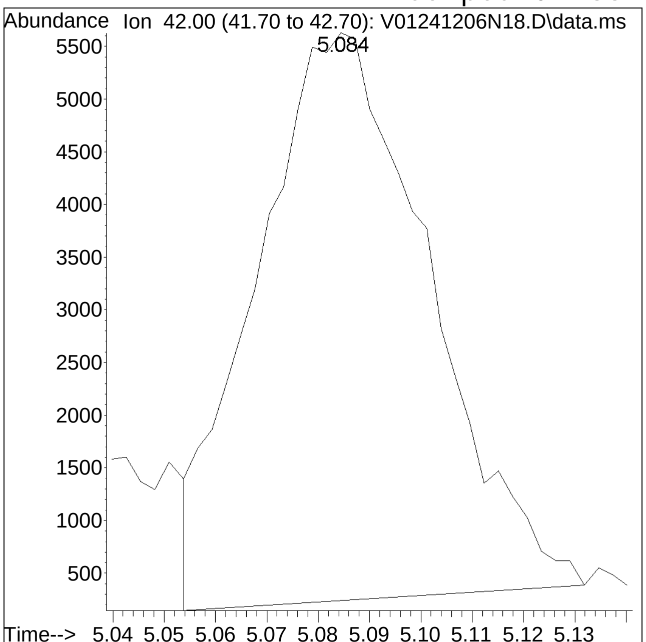


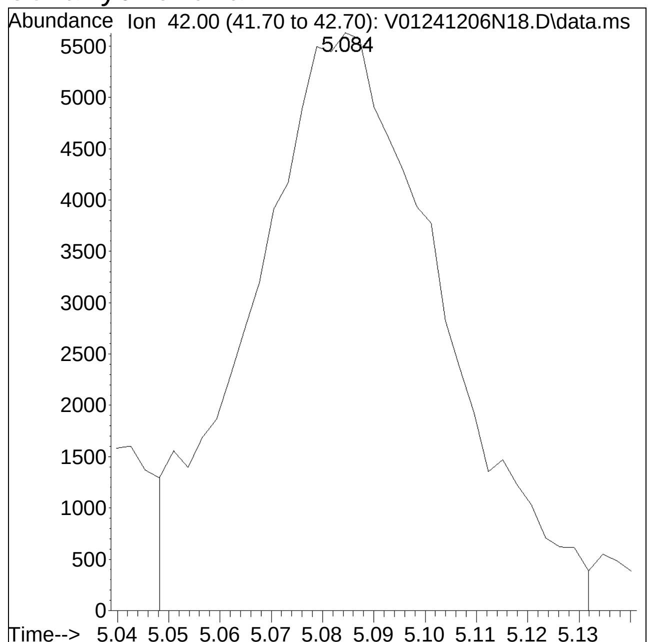
Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Data File : V01241206N18.D
Date Inj'd : 12/7/2024 6:58 am
Sample : C8260STD10PPB

Method : V101_241206N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 12/9/2024 7:46 am

Compound #35: Tetrahydrofuran




Original Peak Response = 12637

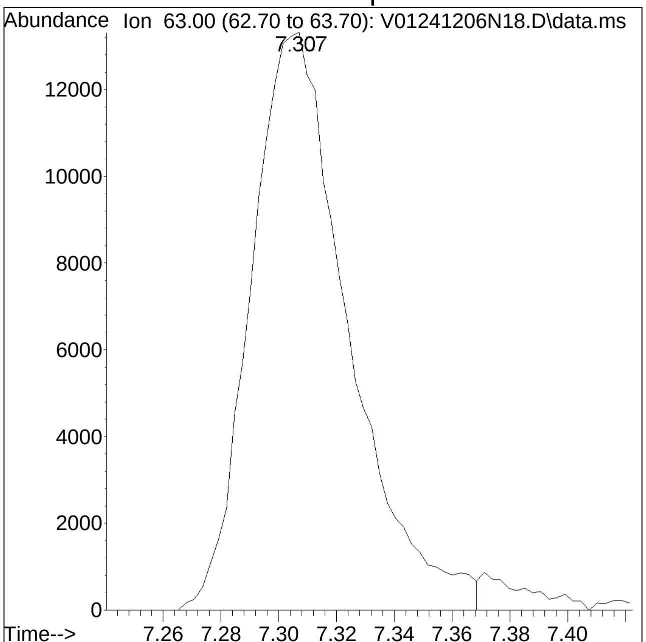
Manual Peak Response = 14380 M1

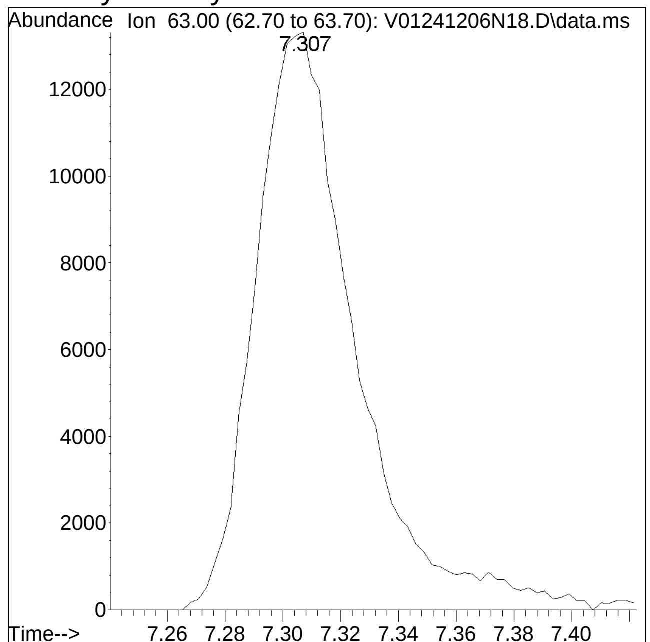
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

```
Data Path    : K:\VOA101\2024\241206NICALQMethod     : V101_241206N_8260.m
Data File    : V01241206N18.D             Operator    : VOA101:PID
Date Inj'd   : 12/7/2024  6:58 am         Instrument  : VOA 101
Sample       : C8260STD10PPB              Quant Date  : 12/9/2024  7:46 am
```

Compound #53: 2-Chloroethyl vinyl ether



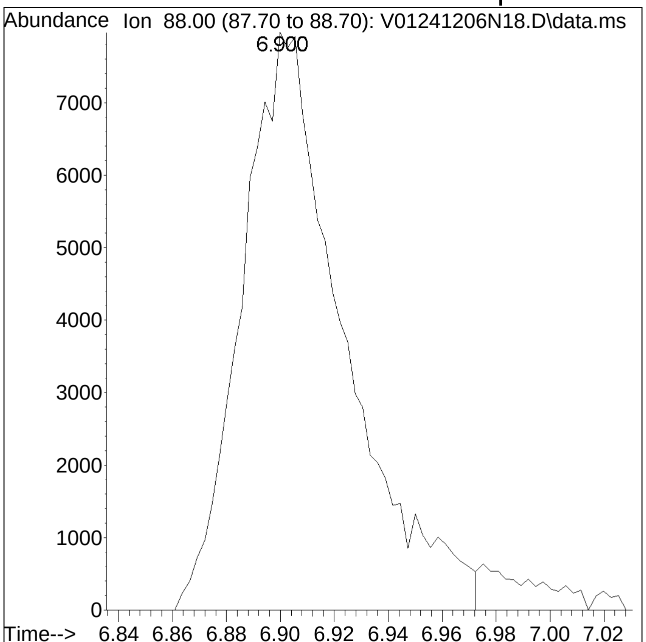

Original Peak Response = 31145        Manual Peak Response = 32130 M1

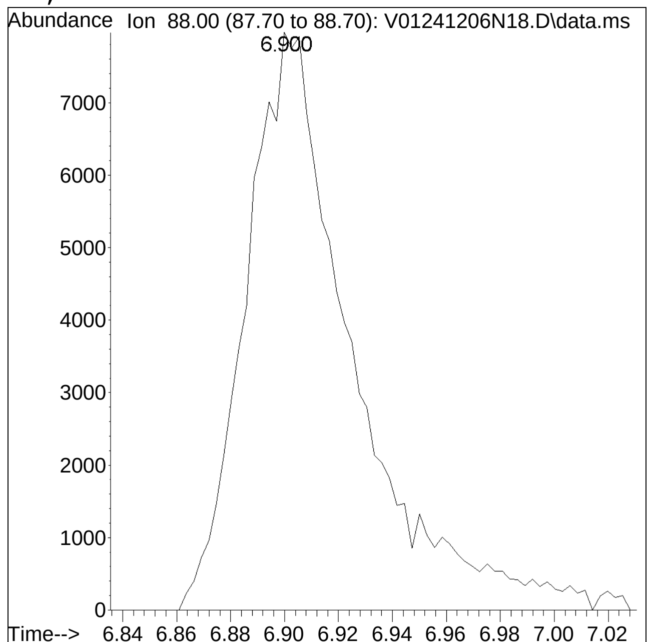
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA101\2024\241206NICALQ | Method | : V101_241206N_8260.m |
| Data File | : V01241206N18.D | Operator | : VOA101:PID |
| Date Inj'd | : 12/7/2024 6:58 am | Instrument | : VOA 101 |
| Sample | : C8260STD10PPB | Quant Date | : 12/9/2024 7:46 am |

Compound #57: 1,4-Dioxane




Original Peak Response = 20946 Manual Peak Response = 21855 M1

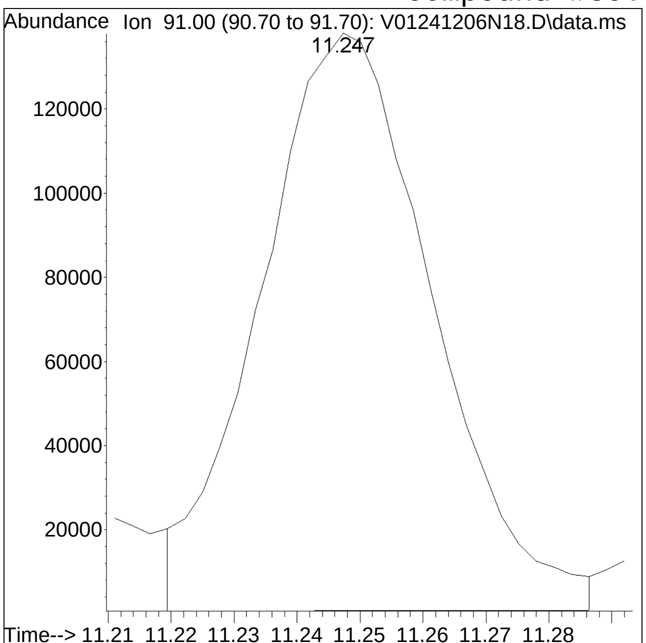
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

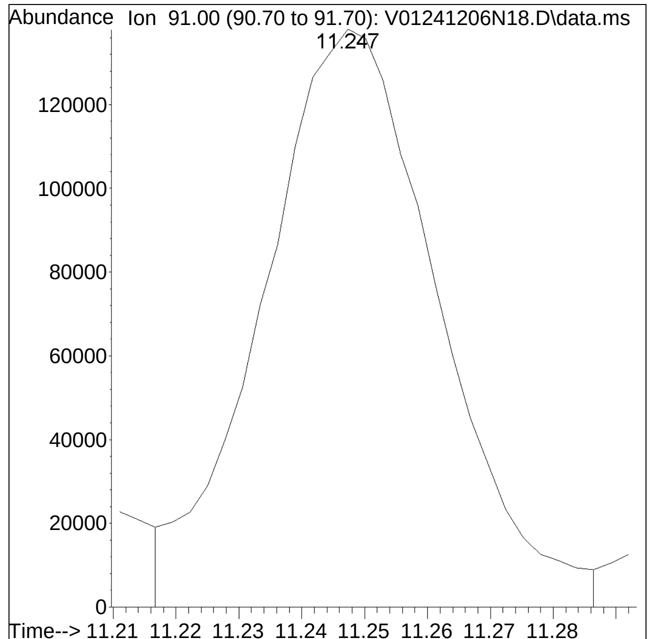
Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Data File : V01241206N18.D
Date Inj'd : 12/7/2024 6:58 am
Sample : C8260STD10PPB

Method : V101_241206N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 12/9/2024 7:46 am

Compound #89: 2-Chlorotoluene




Original Peak Response = 260132

Manual Peak Response = 266692 M1

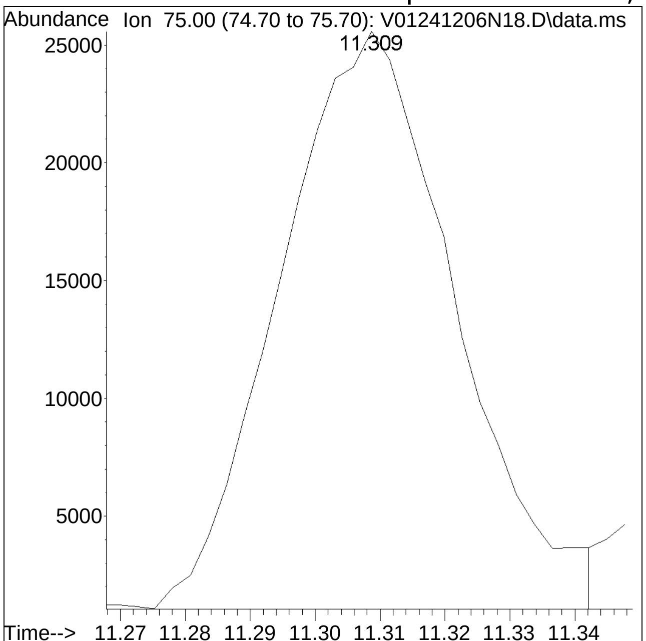
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

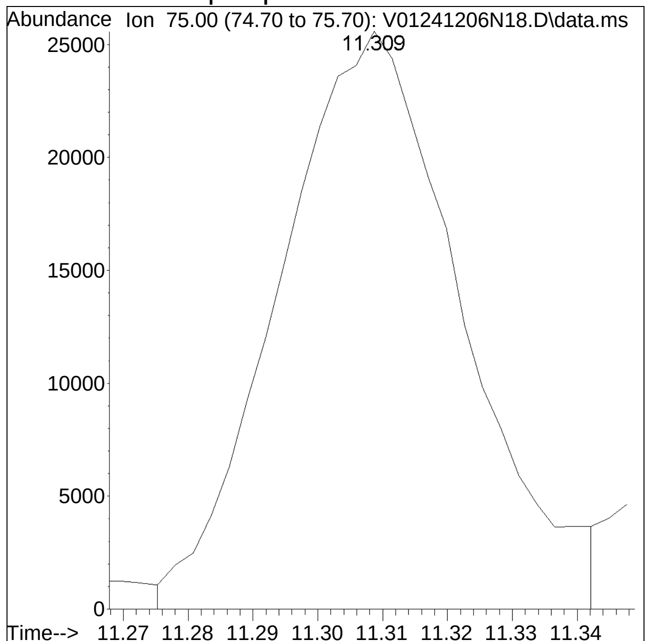
Manual Integration Report

Data Path : K:\VOA101\2024\241206NICALQ
Data File : V01241206N18.D
Date Inj'd : 12/7/2024 6:58 am
Sample : C8260STD10PPB

Method : V101_241206N_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 12/9/2024 7:46 am

Compound #91: 1,2,3-Trichloropropane




Original Peak Response = 45698

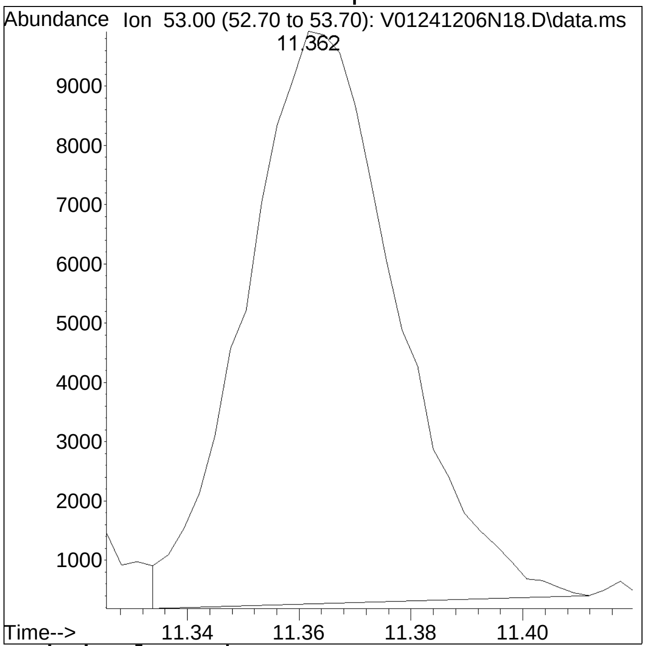
Manual Peak Response = 49974 M1

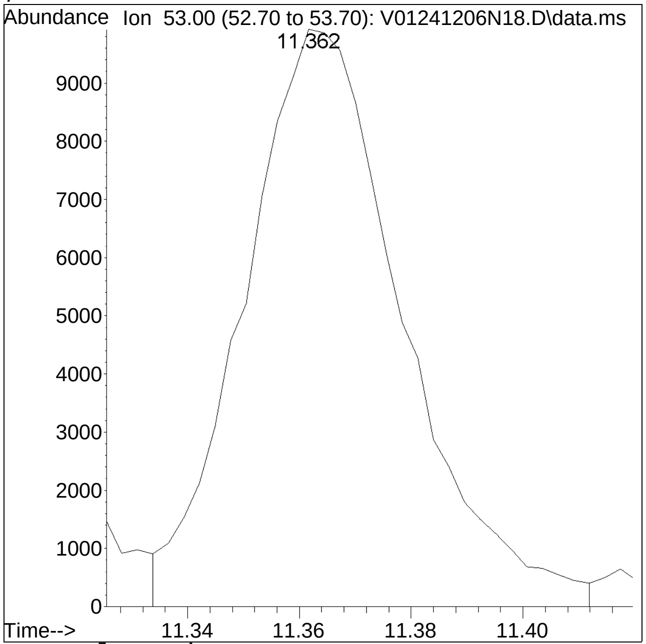
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

```
Data Path    : K:\VOA101\2024\241206NICALQMethod     : V101_241206N_8260.m
Data File    : V01241206N18.D            Operator    : VOA101:PID
Date Inj'd   : 12/7/2024  6:58 am        Instrument  : VOA 101
Sample       : C8260STD10PPB             Quant Date  : 12/9/2024  7:46 am
```

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




Original Peak Response = 18089        Manual Peak Response = 19469 M1

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

Evaluate Relative Error Report VOA 101

Method Path : K:\VOA101\2024\241206NICAL\
Method File : V101_241206N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Dec 09 07:45:49 2024

| | COMPOUND | CalFit | Units | TrueMid | MidConc | %RE | TrueLow | LowConc | %RE |
|---|---|---|---|---|---|---|---|---|---|
| 17 | TP Acetone | L | ug/L | 10.0 | 8.978 | -10.2 | 2.00 | 2.347 | 17.3 |

Calibration Correlation Report

| | COMPOUND | CalFit | CoefOfDet | QuadTerm | LinTerm | Constant |
|---|---|---|---|---|---|---|
| 17 | TP Acetone | Linear | 0.998255 | 0.000000 | 0.0431519 | 0.0087425 |

# Continuing Calibration

# Calibration Verification Summary
# Form 7
# Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 | | |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 | | |
| Instrument ID | : VOA105 | Calibration Date | : 12/20/24 09:54 | | |
| Lab File ID | : V05241220B02 | Init. Calib. Date(s) | : 11/06/24 | 11/06/24 | |
| Sample No | : WG2012422-2 | Init. Calib. Times | : 04:25 | 08:40 | |
| Channel | : | | | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| Fluorobenzene | 1 | 1 | - | 0 | 20 | 80 | 0 |
| Dichlorodifluoromethane | 0.329 | 0.33 | - | -0.3 | 20 | 78 | 0 |
| Chloromethane | 0.456 | 0.27 | - | 40.8* | 20 | 46 | 0 |
| Vinyl chloride | 0.388 | 0.293 | - | 24.5* | 20 | 59 | 0 |
| Bromomethane | 10 | 6.761 | - | 32.4* | 20 | 59 | 0 |
| Chloroethane | 0.189 | 0.164 | - | 13.2 | 20 | 68 | 0 |
| Trichlorofluoromethane | 0.384 | 0.421 | - | -9.6 | 20 | 86 | -.01 |
| 1,1-Dichloroethene | 0.19 | 0.199 | - | -4.7 | 20 | 84 | 0 |
| Carbon disulfide | 0.616 | 0.644 | - | -4.5 | 20 | 85 | 0 |
| Freon-113 | 0.207 | 0.223 | - | -7.7 | 20 | 83 | 0 |
| Methylene chloride | 0.244 | 0.24 | - | 1.6 | 20 | 78 | 0 |
| Acetone | 0.069 | 0.047 | - | 31.9* | 20 | 58 | 0 |
| trans-1,2-Dichloroethene | 0.234 | 0.246 | - | -5.1 | 20 | 80 | 0 |
| Methyl acetate | 0.168 | 0.12 | - | 28.6* | 20 | 57 | 0 |
| Methyl tert-butyl ether | 0.502 | 0.544 | - | -8.4 | 20 | 82 | 0 |
| 1,1-Dichloroethane | 0.595 | 0.516 | - | 13.3 | 20 | 66 | 0 |
| cis-1,2-Dichloroethene | 0.259 | 0.27 | - | -4.2 | 20 | 79 | 0 |
| Bromochloromethane | 0.113 | 0.122 | - | -8 | 20 | 78 | 0 |
| Cyclohexane | 0.786 | 0.573 | - | 27.1* | 20 | 55 | 0 |
| Chloroform | 0.426 | 0.46 | - | -8 | 20 | 82 | 0 |
| Carbon tetrachloride | 0.368 | 0.389 | - | -5.7 | 20 | 80 | 0 |
| Dibromofluoromethane | 0.258 | 0.269 | - | -4.3 | 20 | 83 | 0 |
| 1,1,1-Trichloroethane | 0.401 | 0.429 | - | -7 | 20 | 82 | 0 |
| 2-Butanone | 0.107 | 0.084 | - | 21.5* | 20 | 61 | -.01 |
| Benzene | 0.964 | 0.99 | - | -2.7 | 20 | 78 | 0 |
| 1,2-Dichloroethane-d4 | 0.34 | 0.355 | - | -4.4 | 20 | 80 | 0 |
| 1,2-Dichloroethane | 0.383 | 0.362 | - | 5.5 | 20 | 71 | 0 |
| Methyl cyclohexane | 0.428 | 0.427 | - | 0.2 | 20 | 76 | 0 |
| Trichloroethene | 0.265 | 0.261 | - | 1.5 | 20 | 80 | 0 |
| 1,2-Dichloropropane | 0.33 | 0.276 | - | 16.4 | 20 | 65 | 0 |
| Bromodichloromethane | 0.321 | 0.34 | - | -5.9 | 20 | 81 | 0 |
| 1,4-Dioxane | 0.0012 | 0.0013* | - | -8.3 | 20 | 86 | 0 |
| cis-1,3-Dichloropropene | 0.365 | 0.368 | - | -0.8 | 20 | 77 | 0 |
| Chlorobenzene-d5 | 1 | 1 | - | 0 | 20 | 82 | 0 |
| Toluene-d8 | 1.253 | 1.257 | - | -0.3 | 20 | 82 | 0 |
| Toluene | 0.796 | 0.811 | - | -1.9 | 20 | 80 | 0 |
| 4-Methyl-2-pentanone | 0.104 | 0.073 | - | 29.8* | 20 | 52 | 0 |
| Tetrachloroethene | 0.349 | 0.383 | - | -9.7 | 20 | 86 | 0 |
| trans-1,3-Dichloropropene | 0.388 | 0.403 | - | -3.9 | 20 | 79 | 0 |
| 1,1,2-Trichloroethane | 0.184 | 0.191* | - | -3.8 | 20 | 78 | 0 |
| Chlorodibromomethane | 0.29 | 0.302 | - | -4.1 | 20 | 79 | 0 |
| 1,2-Dibromoethane | 0.228 | 0.232 | - | -1.8 | 20 | 78 | 0 |
| 2-Hexanone | 0.189 | 0.129 | - | 31.7* | 20 | 52 | 0 |

* Value outside of QC limits.

# Calibration Verification Summary
# Form 7
# Volatiles

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Instrument ID** | : VOA105 | **Calibration Date** | : 12/20/24 09:54 |
| **Lab File ID** | : V05241220B02 | **Init. Calib. Date(s)** | : 11/06/24 11/06/24 |
| **Sample No** | : WG2012422-2 | **Init. Calib. Times** | : 04:25 08:40 |
| **Channel** | : | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| Chlorobenzene | 0.862 | 0.879 | - | -2 | 20 | 80 | 0 |
| Ethylbenzene | 1.586 | 1.619 | - | -2.1 | 20 | 79 | 0 |
| p/m Xylene | 0.601 | 0.627 | - | -4.3 | 20 | 80 | 0 |
| o Xylene | 0.575 | 0.595 | - | -3.5 | 20 | 80 | 0 |
| Styrene | 0.929 | 0.969 | - | -4.3 | 20 | 81 | 0 |
| 1,4-Dichlorobenzene-d4 | 1 | 1 | - | 0 | 20 | 90 | 0 |
| Bromoform | 0.296 | 0.303 | - | -2.4 | 20 | 89 | 0 |
| Isopropylbenzene | 3.112 | 2.905 | - | 6.7 | 20 | 81 | 0 |
| 4-Bromofluorobenzene | 0.91 | 0.862 | - | 5.3 | 20 | 85 | 0 |
| n-Propylbenzene | 3.572 | 3.379 | - | 5.4 | 20 | 81 | 0 |
| 1,1,2,2-Tetrachloroethane | 0.489 | 0.449 | - | 8.2 | 20 | 79 | 0 |
| 1,3,5-Trimethylbenzene | 2.562 | 2.423 | - | 5.4 | 20 | 81 | 0 |
| tert-Butylbenzene | 2.253 | 2.091 | - | 7.2 | 20 | 81 | 0 |
| 1,2,4-Trimethylbenzene | 2.465 | 2.301 | - | 6.7 | 20 | 80 | 0 |
| sec-Butylbenzene | 3.217 | 3.008 | - | 6.5 | 20 | 80 | 0 |
| p-Isopropyltoluene | 2.805 | 2.619 | - | 6.6 | 20 | 79 | 0 |
| 1,3-Dichlorobenzene | 1.321 | 1.28 | - | 3.1 | 20 | 83 | 0 |
| 1,4-Dichlorobenzene | 1.32 | 1.304 | - | 1.2 | 20 | 85 | 0 |
| n-Butylbenzene | 2.277 | 2.118 | - | 7 | 20 | 80 | 0 |
| 1,2-Dichlorobenzene | 1.191 | 1.171 | - | 1.7 | 20 | 84 | 0 |
| 1,2-Dibromo-3-chloropropan | 10 | 8.412 | - | 15.9 | 20 | 79 | 0 |
| 1,2,4-Trichlorobenzene | 0.752 | 0.757 | - | -0.7 | 20 | 86 | 0 |
| Naphthalene | 1.668 | 1.37 | - | 17.9 | 20 | 70 | 0 |
| 1,2,3-Trichlorobenzene | 0.635 | 0.615 | - | 3.1 | 20 | 82 | 0 |

* Value outside of QC limits.

# Calibration Verification Summary
# Form 7
# Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 | | |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 | | |
| Instrument ID | : VOA101 | Calibration Date | : 12/21/24 05:08 | | |
| Lab File ID | : V01241221A01 | Init. Calib. Date(s) | : 12/07/24 | 12/07/24 | |
| Sample No | : WG2012561-2 | Init. Calib. Times | : 00:30 | 04:49 | |
| Channel | : | | | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| Fluorobenzene | 1 | 1 | - | 0 | 20 | 66 | 0 |
| Dichlorodifluoromethane | 0.31 | 0.311 | - | -0.3 | 20 | 63 | 0 |
| Chloromethane | 0.318 | 0.332 | - | -4.4 | 20 | 67 | 0 |
| Vinyl chloride | 0.335 | 0.398 | - | -18.8 | 20 | 74 | 0 |
| Bromomethane | 0.168 | 0.124 | - | 26.2* | 20 | 51 | 0 |
| Chloroethane | 0.21 | 0.321 | - | -52.9* | 20 | 94 | 0 |
| Trichlorofluoromethane | 0.435 | 0.542 | - | -24.6* | 20 | 77 | 0 |
| Ethyl ether | 0.116 | 0.144 | - | -24.1* | 20 | 81 | 0 |
| 1,1-Dichloroethene | 0.251 | 0.305 | - | -21.5* | 20 | 77 | 0 |
| Carbon disulfide | 0.768 | 0.939 | - | -22.3* | 20 | 81 | 0 |
| Freon-113 | 0.265 | 0.328 | - | -23.8* | 20 | 77 | 0 |
| Acrolein | 0.03 | 0.031 | - | -3.3 | 20 | 72 | 0 |
| Methylene chloride | 0.243 | 0.241 | - | 0.8 | 20 | 66 | 0 |
| Acetone | 10 | 8.639 | - | 13.6 | 20 | 64 | 0 |
| trans-1,2-Dichloroethene | 0.245 | 0.249 | - | -1.6 | 20 | 66 | 0 |
| Methyl acetate | 0.114 | 0.112 | - | 1.8 | 20 | 69 | 0 |
| Methyl tert-butyl ether | 0.524 | 0.47 | - | 10.3 | 20 | 59 | 0 |
| tert-Butyl alcohol | 0.013 | 0.011 | - | 15.4 | 20 | 55 | 0 |
| Diisopropyl ether | 0.875 | 0.927 | - | -5.9 | 20 | 69 | 0 |
| 1,1-Dichloroethane | 0.471 | 0.501 | - | -6.4 | 20 | 69 | 0 |
| Halothane | 0.192 | 0.19 | - | 1 | 20 | 64 | 0 |
| Acrylonitrile | 0.05 | 0.051 | - | -2 | 20 | 68 | 0 |
| Ethyl tert-butyl ether | 0.731 | 0.686 | - | 6.2 | 20 | 63 | 0 |
| Vinyl acetate | 0.429 | 0.523 | - | -21.9* | 20 | 86 | 0 |
| cis-1,2-Dichloroethene | 0.268 | 0.275 | - | -2.6 | 20 | 66 | 0 |
| 2,2-Dichloropropane | 0.388 | 0.367 | - | 5.4 | 20 | 64 | 0 |
| Bromochloromethane | 0.124 | 0.122 | - | 1.6 | 20 | 65 | 0 |
| Cyclohexane | 0.497 | 0.513 | - | -3.2 | 20 | 67 | 0 |
| Chloroform | 0.437 | 0.448 | - | -2.5 | 20 | 67 | 0 |
| Ethyl acetate | 0.157 | 0.168 | - | -7 | 20 | 69 | 0 |
| Carbon tetrachloride | 0.358 | 0.343 | - | 4.2 | 20 | 61 | 0 |
| Tetrahydrofuran | 0.046 | 0.047 | - | -2.2 | 20 | 67 | 0 |
| Dibromofluoromethane | 0.27 | 0.263 | - | 2.6 | 20 | 65 | 0 |
| 1,1,1-Trichloroethane | 0.399 | 0.399 | - | 0 | 20 | 64 | 0 |
| 2-Butanone | 0.073 | 0.075 | - | -2.7 | 20 | 70 | 0 |
| 1,1-Dichloropropene | 0.341 | 0.347 | - | -1.8 | 20 | 65 | 0 |
| Benzene | 0.959 | 1.013 | - | -5.6 | 20 | 68 | 0 |
| tert-Amyl methyl ether | 0.566 | 0.504 | - | 11 | 20 | 59 | 0 |
| 1,2-Dichloroethane-d4 | 0.295 | 0.294 | - | 0.3 | 20 | 66 | 0 |
| 1,2-Dichloroethane | 0.315 | 0.328 | - | -4.1 | 20 | 67 | 0 |
| Methyl cyclohexane | 0.442 | 0.429 | - | 2.9 | 20 | 63 | 0 |
| Trichloroethene | 0.267 | 0.277 | - | -3.7 | 20 | 67 | 0 |
| Dibromomethane | 0.13 | 0.134 | - | -3.1 | 20 | 67 | 0 |

* Value outside of QC limits.

Pace

# Calibration Verification Summary
# Form 7
# Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 | |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 | |
| Instrument ID | : VOA101 | Calibration Date | : 12/21/24 05:08 | |
| Lab File ID | : V01241221A01 | Init. Calib. Date(s) | : 12/07/24 | 12/07/24 |
| Sample No | : WG2012561-2 | Init. Calib. Times | : 00:30 | 04:49 |
| Channel | : | | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 0.257 | 0.274 | - | -6.6 | 20 | 69 | 0 |
| Bromodichloromethane | 0.331 | 0.328 | - | 0.9 | 20 | 65 | 0 |
| 1,4-Dioxane | 0.00133 | 0.00111* | - | 16.5 | 20 | 53 | 0 |
| cis-1,3-Dichloropropene | 0.379 | 0.358 | - | 5.5 | 20 | 62 | 0 |
| Chlorobenzene-d5 | 1 | 1 | - | 0 | 20 | 65 | 0 |
| Toluene-d8 | 1.261 | 1.265 | - | -0.3 | 20 | 65 | 0 |
| Toluene | 0.804 | 0.845 | - | -5.1 | 20 | 67 | 0 |
| 4-Methyl-2-pentanone | 0.07 | 0.069 | - | 1.4 | 20 | 64 | 0 |
| Tetrachloroethene | 0.338 | 0.335 | - | 0.9 | 20 | 62 | 0 |
| trans-1,3-Dichloropropene | 0.395 | 0.379 | - | 4.1 | 20 | 63 | 0 |
| Ethyl methacrylate | 0.253 | 0.236 | - | 6.7 | 20 | 61 | 0 |
| 1,1,2-Trichloroethane | 0.186 | 0.2* | - | -7.5 | 20 | 69 | 0 |
| Chlorodibromomethane | 0.286 | 0.28 | - | 2.1 | 20 | 64 | 0 |
| 1,3-Dichloropropane | 0.374 | 0.403 | - | -7.8 | 20 | 68 | 0 |
| 1,2-Dibromoethane | 0.217 | 0.227 | - | -4.6 | 20 | 67 | 0 |
| 2-Hexanone | 0.122 | 0.119 | - | 2.5 | 20 | 63 | 0 |
| Chlorobenzene | 0.92 | 0.955 | - | -3.8 | 20 | 67 | 0 |
| Ethylbenzene | 1.586 | 1.688 | - | -6.4 | 20 | 68 | 0 |
| 1,1,1,2-Tetrachloroethane | 0.319 | 0.316 | - | 0.9 | 20 | 64 | 0 |
| p/m Xylene | 0.631 | 0.652 | - | -3.3 | 20 | 66 | 0 |
| o Xylene | 0.602 | 0.625 | - | -3.8 | 20 | 67 | 0 |
| Styrene | 0.996 | 1.061 | - | -6.5 | 20 | 69 | 0 |
| 1,4-Dichlorobenzene-d4 | 1 | 1 | - | 0 | 20 | 66 | 0 |
| Bromoform | 0.283 | 0.257 | - | 9.2 | 20 | 60 | 0 |
| Isopropylbenzene | 3.044 | 3.186 | - | -4.7 | 20 | 67 | 0 |
| 4-Bromofluorobenzene | 0.928 | 0.901 | - | 2.9 | 20 | 64 | 0 |
| Bromobenzene | 0.668 | 0.681 | - | -1.9 | 20 | 66 | 0 |
| n-Propylbenzene | 3.5 | 3.784 | - | -8.1 | 20 | 70 | 0 |
| 1,4-Dichlorobutane | 0.787 | 0.851 | - | -8.1 | 20 | 74 | 0 |
| 1,1,2,2-Tetrachloroethane | 0.47 | 0.545 | - | -16 | 20 | 78 | 0 |
| 4-Ethyltoluene | 2.909 | 3.086 | - | -6.1 | 20 | 69 | 0 |
| 2-Chlorotoluene | 2.008 | 2.184 | - | -8.8 | 20 | 70 | 0 |
| 1,3,5-Trimethylbenzene | 2.482 | 2.607 | - | -5 | 20 | 68 | 0 |
| 1,2,3-Trichloropropane | 0.383 | 0.421 | - | -9.9 | 20 | 72 | 0 |
| trans-1,4-Dichloro-2-buten | 0.151 | 0.163 | - | -7.9 | 20 | 72 | 0 |
| 4-Chlorotoluene | 2.04 | 2.216 | - | -8.6 | 20 | 70 | 0 |
| tert-Butylbenzene | 2.101 | 2.173 | - | -3.4 | 20 | 67 | 0 |
| 1,2,4-Trimethylbenzene | 2.399 | 2.527 | - | -5.3 | 20 | 68 | 0 |
| sec-Butylbenzene | 3.032 | 3.243 | - | -7 | 20 | 69 | 0 |
| p-Isopropyltoluene | 2.58 | 2.681 | - | -3.9 | 20 | 67 | 0 |
| 1,3-Dichlorobenzene | 1.267 | 1.343 | - | -6 | 20 | 69 | 0 |
| 1,4-Dichlorobenzene | 1.281 | 1.348 | - | -5.2 | 20 | 68 | 0 |
| p-Diethylbenzene | 1.467 | 1.523 | - | -3.8 | 20 | 67 | 0 |

* Value outside of QC limits.

# Calibration Verification Summary
# Form 7
# Volatiles

| | | | | |
|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 | |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 | |
| **Instrument ID** | : VOA101 | **Calibration Date** | : 12/21/24 05:08 | |
| **Lab File ID** | : V01241221A01 | **Init. Calib. Date(s)** | : 12/07/24 | 12/07/24 |
| **Sample No** | : WG2012561-2 | **Init. Calib. Times** | : 00:30 | 04:49 |
| **Channel** | : | | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| n-Butylbenzene | 2.074 | 2.296 | - | -10.7 | 20 | 72 | 0 |
| 1,2-Dichlorobenzene | 1.102 | 1.183 | - | -7.4 | 20 | 69 | 0 |
| 1,2,4,5-Tetramethylbenzene | 2.032 | 1.997 | - | 1.7 | 20 | 64 | 0 |
| 1,2-Dibromo-3-chloropropan | 0.059 | 0.056 | - | 5.1 | 20 | 64 | 0 |
| 1,3,5-Trichlorobenzene | 0.71 | 0.689 | - | 3 | 20 | 64 | 0 |
| Hexachlorobutadiene | 0.262 | 0.222 | - | 15.3 | 20 | 58 | 0 |
| 1,2,4-Trichlorobenzene | 0.566 | 0.536 | - | 5.3 | 20 | 62 | 0 |
| Naphthalene | 1.152 | 1.142 | - | 0.9 | 20 | 66 | 0 |
| 1,2,3-Trichlorobenzene | 0.435 | 0.408 | - | 6.2 | 20 | 62 | 0 |

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : K:\VOA105\2024\241220B\
Data File : V05241220B02.D
Acq On : 20 Dec 2024 9:54 am
Operator : VOA105:PID
Sample : WG2012422-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 10:16:35 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Fluorobenzene | 1.000 | 1.000 | 0.0 | 80 | 0.00 |
| 2 | TP | Dichlorodifluoromethane | 0.329 | 0.330 | -0.3 | 78 | 0.00 |
| 3 | TP | Chloromethane | 0.456 | 0.270 | 40.8# | 46# | 0.00 |
| 4 | TP | Vinyl chloride | 0.388 | 0.293 | 24.5# | 59 | 0.00 |
| 5 | TP | Bromomethane | * 10.000 | 6.761 | 32.4# | 59 | 0.00 |
| 6 | TP | Chloroethane | 0.189 | 0.164 | 13.2 | 68 | 0.00 |
| 7 | TP | Trichlorofluoromethane | 0.384 | 0.421 | -9.6 | 86 | -0.01 |
| 10 | TP | 1,1-Dichloroethene | 0.190 | 0.199 | -4.7 | 84 | 0.00 |
| 11 | TP | Carbon disulfide | 0.616 | 0.644 | -4.5 | 85 | 0.00 |
| 12 | TP | Freon-113 | 0.207 | 0.223 | -7.7 | 83 | 0.00 |
| 15 | TP | Methylene chloride | 0.244 | 0.240 | 1.6 | 78 | 0.00 |
| 17 | TP | Acetone | 0.069 | 0.047 | 31.9# | 58 | 0.00 |
| 18 | TP | trans-1,2-Dichloroethene | 0.234 | 0.246 | -5.1 | 80 | 0.00 |
| 19 | TP | Methyl acetate | 0.168 | 0.120 | 28.6# | 57 | 0.00 |
| 20 | TP | Methyl tert-butyl ether | 0.502 | 0.544 | -8.4 | 82 | 0.00 |
| 23 | TP | 1,1-Dichloroethane | 0.595 | 0.516 | 13.3 | 66 | 0.00 |
| 28 | TP | cis-1,2-Dichloroethene | 0.259 | 0.270 | -4.2 | 79 | 0.00 |
| 30 | TP | Bromochloromethane | 0.113 | 0.122 | -8.0 | 78 | 0.00 |
| 31 | TP | Cyclohexane | 0.786 | 0.573 | 27.1# | 55 | 0.00 |
| 32 | TP | Chloroform | 0.426 | 0.460 | -8.0 | 82 | 0.00 |
| 34 | TP | Carbon tetrachloride | 0.368 | 0.389 | -5.7 | 80 | 0.00 |
| 36 | S | Dibromofluoromethane | 0.258 | 0.269 | -4.3 | 83 | 0.00 |
| 37 | TP | 1,1,1-Trichloroethane | 0.401 | 0.429 | -7.0 | 82 | 0.00 |
| 39 | TP | 2-Butanone | 0.107 | 0.084 | 21.5# | 61 | -0.01 |
| 41 | TP | Benzene | 0.964 | 0.990 | -2.7 | 78 | 0.00 |
| 43 | S | 1,2-Dichloroethane-d4 | 0.340 | 0.355 | -4.4 | 80 | 0.00 |
| 44 | TP | 1,2-Dichloroethane | 0.383 | 0.362 | 5.5 | 71 | 0.00 |
| 47 | TP | Methyl cyclohexane | 0.428 | 0.427 | 0.2 | 76 | 0.00 |
| 48 | TP | Trichloroethene | 0.265 | 0.261 | 1.5 | 80 | 0.00 |
| 51 | TP | 1,2-Dichloropropane | 0.330 | 0.276 | 16.4 | 65 | 0.00 |
| 54 | TP | Bromodichloromethane | 0.321 | 0.340 | -5.9 | 81 | 0.00 |
| 57 | TP | 1,4-Dioxane | 0.00120 | 0.00130# | -8.3 | 86 | 0.00 |
| 58 | TP | cis-1,3-Dichloropropene | 0.365 | 0.368 | -0.8 | 77 | 0.00 |
| 59 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 82 | 0.00 |
| 60 | S | Toluene-d8 | 1.253 | 1.257 | -0.3 | 82 | 0.00 |
| 61 | TP | Toluene | 0.796 | 0.811 | -1.9 | 80 | 0.00 |
| 62 | TP | 4-Methyl-2-pentanone | 0.104 | 0.073 | 29.8# | 52 | 0.00 |
| 63 | TP | Tetrachloroethene | 0.349 | 0.383 | -9.7 | 86 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : K:\VOA105\2024\241220B\
Data File : V05241220B02.D
Acq On : 20 Dec 2024 9:54 am
Operator : VOA105:PID
Sample : WG2012422-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 10:16:35 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 65 | TP | trans-1,3-Dichloropropene | 0.388 | 0.403 | -3.9 | 79 | 0.00 |
| 68 | TP | 1,1,2-Trichloroethane | 0.184 | 0.191# | -3.8 | 78 | 0.00 |
| 69 | TP | Chlorodibromomethane | 0.290 | 0.302 | -4.1 | 79 | 0.00 |
| 71 | TP | 1,2-Dibromoethane | 0.228 | 0.232 | -1.8 | 78 | 0.00 |
| 72 | TP | 2-Hexanone | 0.189 | 0.129 | 31.7# | 52 | 0.00 |
| 73 | TP | Chlorobenzene | 0.862 | 0.879 | -2.0 | 80 | 0.00 |
| 74 | TP | Ethylbenzene | 1.586 | 1.619 | -2.1 | 79 | 0.00 |
| 76 | TP | p/m Xylene | 0.601 | 0.627 | -4.3 | 80 | 0.00 |
| 77 | TP | o Xylene | 0.575 | 0.595 | -3.5 | 80 | 0.00 |
| 78 | TP | Styrene | 0.929 | 0.969 | -4.3 | 81 | 0.00 |
| 79 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 80 | TP | Bromoform | 0.296 | 0.303 | -2.4 | 89 | 0.00 |
| 82 | TP | Isopropylbenzene | 3.112 | 2.905 | 6.7 | 81 | 0.00 |
| 83 | S | 4-Bromofluorobenzene | 0.910 | 0.862 | 5.3 | 85 | 0.00 |
| 85 | TP | n-Propylbenzene | 3.572 | 3.379 | 5.4 | 81 | 0.00 |
| 87 | TP | 1,1,2,2-Tetrachloroethane | 0.489 | 0.449 | 8.2 | 79 | 0.00 |
| 90 | TP | 1,3,5-Trimethylbenzene | 2.562 | 2.423 | 5.4 | 81 | 0.00 |
| 94 | TP | tert-Butylbenzene | 2.253 | 2.091 | 7.2 | 81 | 0.00 |
| 97 | TP | 1,2,4-Trimethylbenzene | 2.465 | 2.301 | 6.7 | 80 | 0.00 |
| 98 | TP | sec-Butylbenzene | 3.217 | 3.008 | 6.5 | 80 | 0.00 |
| 99 | TP | p-Isopropyltoluene | 2.805 | 2.619 | 6.6 | 79 | 0.00 |
| 100 | TP | 1,3-Dichlorobenzene | 1.321 | 1.280 | 3.1 | 83 | 0.00 |
| 101 | TP | 1,4-Dichlorobenzene | 1.320 | 1.304 | 1.2 | 85 | 0.00 |
| 103 | TP | n-Butylbenzene | 2.277 | 2.118 | 7.0 | 80 | 0.00 |
| 104 | TP | 1,2-Dichlorobenzene | 1.191 | 1.171 | 1.7 | 84 | 0.00 |
| 106 | TP | 1,2-Dibromo-3-chloropropane * | 10.000 | 8.412 | 15.9 | 79 | 0.00 |
| 109 | TP | 1,2,4-Trichlorobenzene | 0.752 | 0.757 | -0.7 | 86 | 0.00 |
| 110 | TP | Naphthalene | 1.668 | 1.370 | 17.9 | 70 | 0.00 |
| 111 | TP | 1,2,3-Trichlorobenzene | 0.635 | 0.615 | 3.1 | 82 | 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\2024\241220B\
Data File : V05241220B02.D
Acq On    : 20 Dec 2024   9:54 am
Operator  : VOA105:PID
Sample    : WG2012422-2 (Sig #1); 8260 CCAL (Sig #2)
Misc      : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Dec 20 10:16:35 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

Sub List     : 8260-NY_R2 - NYSOM01.2 + NYSTARS

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 --------------------------------------------------------------------------
 Internal Standards
  1) Fluorobenzene               5.655   96    432025    10.000 ug/L     0.00
 59) Chlorobenzene-d5            9.148  117    336874    10.000 ug/L     0.00
 79) 1,4-Dichlorobenzene-d4     11.920  152    194778    10.000 ug/L     0.00

 System Monitoring Compounds
 36) Dibromofluoromethane        4.873  113    116012    10.421 ug/L    0.00
    Spiked Amount    10.000   Range  70 - 130    Recovery   =  104.21%
 43) 1,2-Dichloroethane-d4       5.381   65    153231    10.441 ug/L    0.00
    Spiked Amount    10.000   Range  70 - 130    Recovery   =  104.41%
 60) Toluene-d8                  7.318   98    423409    10.027 ug/L    0.00
    Spiked Amount    10.000   Range  70 - 130    Recovery   =  100.27%
 83) 4-Bromofluorobenzene       10.676   95    167943     9.479 ug/L    0.00
    Spiked Amount    10.000   Range  70 - 130    Recovery   =   94.79%

 Target Compounds                                                 Qvalue
  2) Dichlorodifluoromethane     1.488   85     142481     10.014 ug/L      98
  3) Chloromethane               1.665   50     116746      5.921 ug/L      97
  4) Vinyl chloride              1.723   62     126467      7.549 ug/L      95
  5) Bromomethane                2.007   94      22045      6.761 ug/L     100
  6) Chloroethane                2.105   64      70933      8.695 ug/L      96
  7) Trichlorofluoromethane      2.232  101     181795     10.972 ug/L     100
 10) 1,1-Dichloroethene          2.691   96      85952     10.486 ug/L      81
 11) Carbon disulfide            2.721   76     278215     10.460 ug/L     100
 12) Freon-113                   2.721  101      96320     10.791 ug/L #    77
 15) Methylene chloride          3.229   84     103567      9.810 ug/L #    58
 17) Acetone                     3.288   43      20185      6.755 ug/L      91
 18) trans-1,2-Dichloroethene    3.366   96     106222     10.509 ug/L      85
 19) Methyl acetate              3.396   43      51868      7.143 ug/L #    80
 20) Methyl tert-butyl ether     3.464   73     235120     10.846 ug/L #    85
 23) 1,1-Dichloroethane          3.934   63     222741      8.667 ug/L      97
 28) cis-1,2-Dichloroethene      4.432   96     116781     10.417 ug/L      87
 30) Bromochloromethane          4.628  128      52762     10.802 ug/L #    68
 31) Cyclohexane                 4.609   56     247735      7.295 ug/L #    64
 32) Chloroform                  4.697   83     198662     10.806 ug/L      96
 34) Carbon tetrachloride        4.814  117     167893     10.559 ug/L      99
 37) 1,1,1-Trichloroethane       4.873   97     185266     10.703 ug/L      94
 39) 2-Butanone                  4.990   43      36341      7.851 ug/L #    64
 41) Benzene                     5.234   78     427511     10.263 ug/L #    90
 44) 1,2-Dichloroethane          5.450   62     156194      9.451 ug/L      98
 47) Methyl cyclohexane          5.802   83     184546      9.990 ug/L #    59
```

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241220B\
Data File : V05241220B02.D
Acq On : 20 Dec 2024 9:54 am
Operator : VOA105:PID
Sample : WG2012422-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 10:16:35 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 48) Trichloroethene | 5.821 | 95 | 112569 | 9.844 ug/L | 94 |
| 51) 1,2-Dichloropropane | 6.359 | 63 | 119077 | 8.356 ug/L # | 87 |
| 54) Bromodichloromethane | 6.438 | 83 | 146820 | 10.599 ug/L | 97 |
| 57) 1,4-Dioxane | 6.653 | 88 | 28007 | 538.698 ug/L # | 74 |
| 58) cis-1,3-Dichloropropene | 7.122 | 75 | 159067 | 10.075 ug/L # | 91 |
| 61) Toluene | 7.367 | 92 | 273246 | 10.185 ug/L | 100 |
| 62) 4-Methyl-2-pentanone | 7.817 | 58 | 24598 | 7.055 ug/L # | 84 |
| 63) Tetrachloroethene | 7.807 | 166 | 129048 | 10.977 ug/L | 92 |
| 65) trans-1,3-Dichloropropene | 7.866 | 75 | 135874 | 10.402 ug/L | 89 |
| 68) 1,1,2-Trichloroethane | 8.051 | 83 | 64301 | 10.368 ug/L | 98 |
| 69) Chlorodibromomethane | 8.257 | 129 | 101681 | 10.399 ug/L | 99 |
| 71) 1,2-Dibromoethane | 8.521 | 107 | 78041 | 10.179 ug/L | 99 |
| 72) 2-Hexanone | 8.824 | 43 | 43412 | 6.823 ug/L | 96 |
| 73) Chlorobenzene | 9.167 | 112 | 296202 | 10.195 ug/L | 95 |
| 74) Ethylbenzene | 9.196 | 91 | 545268 | 10.204 ug/L | 95 |
| 76) p/m Xylene | 9.383 | 106 | 422358 | 20.852 ug/L | 89 |
| 77) o Xylene | 9.931 | 106 | 400557 | 20.671 ug/L | 88 |
| 78) Styrene | 10.000 | 104 | 653006 | 20.858 ug/L | 91 |
| 80) Bromoform | 10.029 | 173 | 59016 | 10.230 ug/L | 98 |
| 82) Isopropylbenzene | 10.333 | 105 | 565867 | 9.336 ug/L | 98 |
| 85) n-Propylbenzene | 10.832 | 91 | 658096 | 9.458 ug/L | 96 |
| 87) 1,1,2,2-Tetrachloroethane | 10.940 | 83 | 87400 | 9.185 ug/L | 99 |
| 90) 1,3,5-Trimethylbenzene | 11.068 | 105 | 471946 | 9.457 ug/L | 96 |
| 94) tert-Butylbenzene | 11.410 | 119 | 407187 | 9.277 ug/L | 95 |
| 97) 1,2,4-Trimethylbenzene | 11.499 | 105 | 448209 | 9.336 ug/L | 97 |
| 98) sec-Butylbenzene | 11.606 | 105 | 585953 | 9.352 ug/L | 97 |
| 99) p-Isopropyltoluene | 11.773 | 119 | 510159 | 9.338 ug/L | 96 |
| 100) 1,3-Dichlorobenzene | 11.841 | 146 | 249337 | 9.690 ug/L | 97 |
| 101) 1,4-Dichlorobenzene | 11.939 | 146 | 254033 | 9.882 ug/L | 97 |
| 103) n-Butylbenzene | 12.214 | 91 | 412582 | 9.301 ug/L | 98 |
| 104) 1,2-Dichlorobenzene | 12.361 | 146 | 228022 | 9.829 ug/L | 96 |
| 106) 1,2-Dibromo-3-chloropr... | 13.154 | 155 | 12600 | 8.412 ug/L | 97 |
| 109) 1,2,4-Trichlorobenzene | 13.781 | 180 | 147521 | 10.070 ug/L | 99 |
| 110) Naphthalene | 14.075 | 128 | 266912 | 8.217 ug/L | 100 |
| 111) 1,2,3-Trichlorobenzene | 14.251 | 180 | 119806 | 9.694 ug/L | 99 |

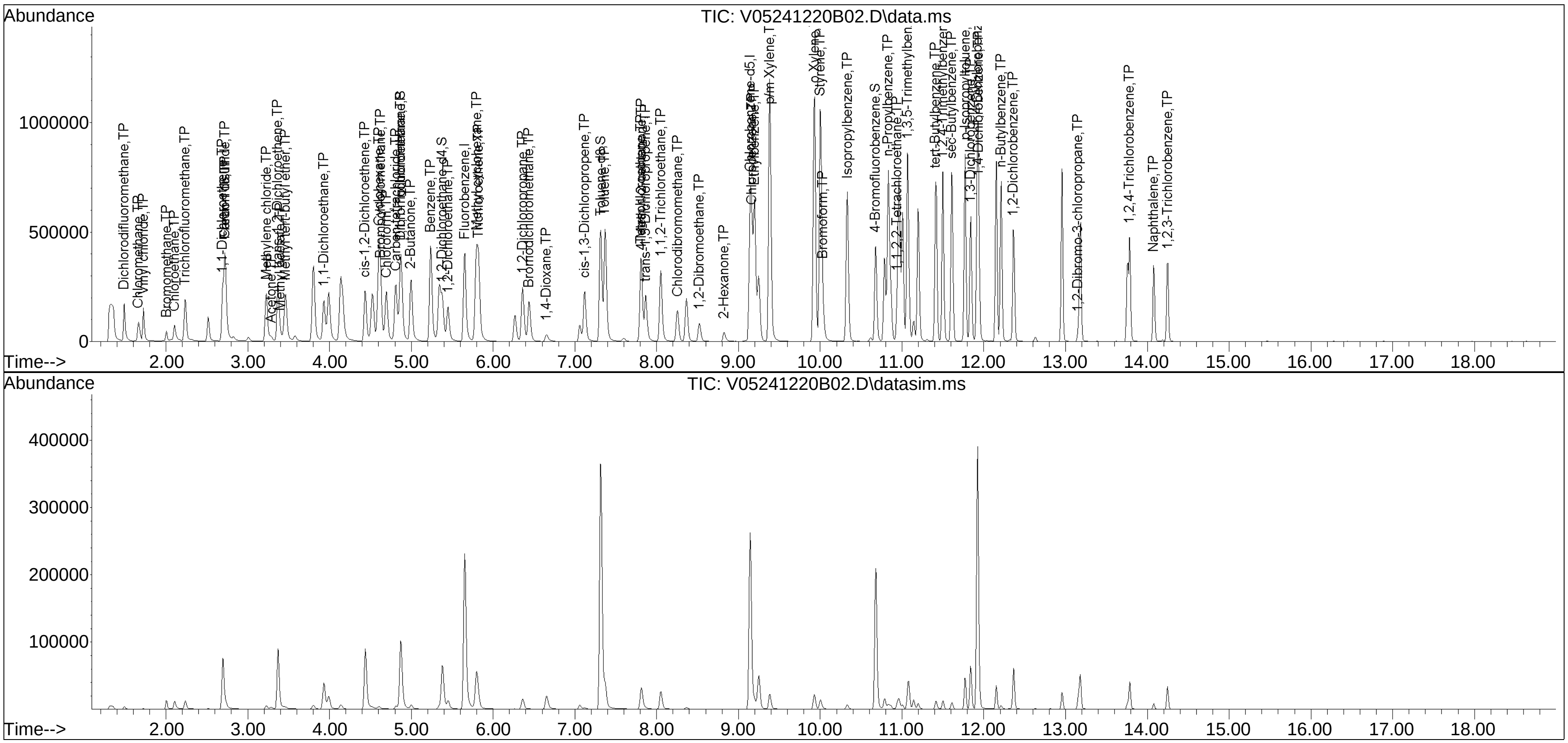
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : K:\VOA105\2024\241220B\
Data File : V05241220B02.D
Acq On    : 20 Dec 2024   9:54 am
Operator  : VOA105:PID
Sample    : WG2012422-2 (Sig #1); 8260 CCAL (Sig #2)
Misc      : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Dec 20 10:16:35 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

Sub List     : 8260-NY_R2 - NYSOM01.2 + NYSTARS



Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA105\2024\241220B\ | QMethod | : V105_241106A_8260.m |
| Data File | : V05241220B02.D | Operator | : VOA105:PID |
| Date Inj'd | : 12/20/2024 9:54 am | Instrument | : VOA105 |
| Sample | : WG2012422-2 | Quant Date | : 12/20/2024 10:15 am |

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

Evaluate Continuing Calibration Report

Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A01.D
Acq On : 21 Dec 2024 5:08 am
Operator : VOA101:PID
Sample : WG2012561-2
Misc : WG2012561,ICAL21767
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 05:38:37 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

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

| | | Compound | | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|---|
| 1 | I | Fluorobenzene | | 1.000 | 1.000 | 0.0 | 66 | 0.00 |
| 2 | TP | Dichlorodifluoromethane | | 0.310 | 0.311 | -0.3 | 63 | 0.00 |
| 3 | TP | Chloromethane | | 0.318 | 0.332 | -4.4 | 67 | 0.00 |
| 4 | TP | Vinyl chloride | | 0.335 | 0.398 | -18.8 | 74 | 0.00 |
| 5 | TP | Bromomethane | | 0.168 | 0.124 | 26.2# | 51 | 0.00 |
| 6 | TP | Chloroethane | | 0.210 | 0.321 | -52.9# | 94 | 0.00 |
| 7 | TP | Trichlorofluoromethane | | 0.435 | 0.542 | -24.6# | 77 | 0.00 |
| 8 | TP | Ethyl ether | | 0.116 | 0.144 | -24.1# | 81 | 0.00 |
| 10 | TP | 1,1-Dichloroethene | | 0.251 | 0.305 | -21.5# | 77 | 0.00 |
| 11 | TP | Carbon disulfide | | 0.768 | 0.939 | -22.3# | 81 | 0.00 |
| 12 | TP | Freon-113 | | 0.265 | 0.328 | -23.8# | 77 | 0.00 |
| 14 | TP | Acrolein | | 0.030 | 0.031 | -3.3 | 72 | 0.00 |
| 15 | TP | Methylene chloride | | 0.243 | 0.241 | 0.8 | 66 | 0.00 |
| 17 | TP | Acetone | * | 10.000 | 8.639 | 13.6 | 64 | 0.00 |
| 18 | TP | trans-1,2-Dichloroethene | | 0.245 | 0.249 | -1.6 | 66 | 0.00 |
| 19 | TP | Methyl acetate | | 0.114 | 0.112 | 1.8 | 69 | 0.00 |
| 20 | TP | Methyl tert-butyl ether | | 0.524 | 0.470 | 10.3 | 59 | 0.00 |
| 21 | TP | tert-Butyl alcohol | | 0.013 | 0.011 | 15.4 | 55 | 0.00 |
| 22 | TP | Diisopropyl ether | | 0.875 | 0.927 | -5.9 | 69 | 0.00 |
| 23 | TP | 1,1-Dichloroethane | | 0.471 | 0.501 | -6.4 | 69 | 0.00 |
| 24 | TP | Halothane | | 0.192 | 0.190 | 1.0 | 64 | 0.00 |
| 25 | TP | Acrylonitrile | | 0.050 | 0.051 | -2.0 | 68 | 0.00 |
| 26 | TP | Ethyl tert-butyl ether | | 0.731 | 0.686 | 6.2 | 63 | 0.00 |
| 27 | TP | Vinyl acetate | | 0.429 | 0.523 | -21.9# | 86 | 0.00 |
| 28 | TP | cis-1,2-Dichloroethene | | 0.268 | 0.275 | -2.6 | 66 | 0.00 |
| 29 | TP | 2,2-Dichloropropane | | 0.388 | 0.367 | 5.4 | 64 | 0.00 |
| 30 | TP | Bromochloromethane | | 0.124 | 0.122 | 1.6 | 65 | 0.00 |
| 31 | TP | Cyclohexane | | 0.497 | 0.513 | -3.2 | 67 | 0.00 |
| 32 | TP | Chloroform | | 0.437 | 0.448 | -2.5 | 67 | 0.00 |
| 33 | TP | Ethyl acetate | | 0.157 | 0.168 | -7.0 | 69 | 0.00 |
| 34 | TP | Carbon tetrachloride | | 0.358 | 0.343 | 4.2 | 61 | 0.00 |
| 35 | TP | Tetrahydrofuran | | 0.046 | 0.047 | -2.2 | 67 | 0.00 |
| 36 | S | Dibromofluoromethane | | 0.270 | 0.263 | 2.6 | 65 | 0.00 |
| 37 | TP | 1,1,1-Trichloroethane | | 0.399 | 0.399 | 0.0 | 64 | 0.00 |
| 39 | TP | 2-Butanone | | 0.073 | 0.075 | -2.7 | 70 | 0.00 |
| 40 | TP | 1,1-Dichloropropene | | 0.341 | 0.347 | -1.8 | 65 | 0.00 |
| 41 | TP | Benzene | | 0.959 | 1.013 | -5.6 | 68 | 0.00 |
| 42 | TP | tert-Amyl methyl ether | | 0.566 | 0.504 | 11.0 | 59 | 0.00 |
| 43 | S | 1,2-Dichloroethane-d4 | | 0.295 | 0.294 | 0.3 | 66 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A01.D
Acq On : 21 Dec 2024 5:08 am
Operator : VOA101:PID
Sample : WG2012561-2
Misc : WG2012561,ICAL21767
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 05:38:37 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 44 | TP | 1,2-Dichloroethane | 0.315 | 0.328 | -4.1 | 67 | 0.00 |
| 47 | TP | Methyl cyclohexane | 0.442 | 0.429 | 2.9 | 63 | 0.00 |
| 48 | TP | Trichloroethene | 0.267 | 0.277 | -3.7 | 67 | 0.00 |
| 50 | TP | Dibromomethane | 0.130 | 0.134 | -3.1 | 67 | 0.00 |
| 51 | TP | 1,2-Dichloropropane | 0.257 | 0.274 | -6.6 | 69 | 0.00 |
| 54 | TP | Bromodichloromethane | 0.331 | 0.328 | 0.9 | 65 | 0.00 |
| 57 | TP | 1,4-Dioxane | 0.00133 | 0.00111# | 16.5 | 53 | 0.00 |
| 58 | TP | cis-1,3-Dichloropropene | 0.379 | 0.358 | 5.5 | 62 | 0.00 |
| 59 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 65 | 0.00 |
| 60 | S | Toluene-d8 | 1.261 | 1.265 | -0.3 | 65 | 0.00 |
| 61 | TP | Toluene | 0.804 | 0.845 | -5.1 | 67 | 0.00 |
| 62 | TP | 4-Methyl-2-pentanone | 0.070 | 0.069 | 1.4 | 64 | 0.00 |
| 63 | TP | Tetrachloroethene | 0.338 | 0.335 | 0.9 | 62 | 0.00 |
| 65 | TP | trans-1,3-Dichloropropene | 0.395 | 0.379 | 4.1 | 63 | 0.00 |
| 67 | TP | Ethyl methacrylate | 0.253 | 0.236 | 6.7 | 61 | 0.00 |
| 68 | TP | 1,1,2-Trichloroethane | 0.186 | 0.200# | -7.5 | 69 | 0.00 |
| 69 | TP | Chlorodibromomethane | 0.286 | 0.280 | 2.1 | 64 | 0.00 |
| 70 | TP | 1,3-Dichloropropane | 0.374 | 0.403 | -7.8 | 68 | 0.00 |
| 71 | TP | 1,2-Dibromoethane | 0.217 | 0.227 | -4.6 | 67 | 0.00 |
| 72 | TP | 2-Hexanone | 0.122 | 0.119 | 2.5 | 63 | 0.00 |
| 73 | TP | Chlorobenzene | 0.920 | 0.955 | -3.8 | 67 | 0.00 |
| 74 | TP | Ethylbenzene | 1.586 | 1.688 | -6.4 | 68 | 0.00 |
| 75 | TP | 1,1,1,2-Tetrachloroethane | 0.319 | 0.316 | 0.9 | 64 | 0.00 |
| 76 | TP | p/m Xylene | 0.631 | 0.652 | -3.3 | 66 | 0.00 |
| 77 | TP | o Xylene | 0.602 | 0.625 | -3.8 | 67 | 0.00 |
| 78 | TP | Styrene | 0.996 | 1.061 | -6.5 | 69 | 0.00 |
| 79 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 66 | 0.00 |
| 80 | TP | Bromoform | 0.283 | 0.257 | 9.2 | 60 | 0.00 |
| 82 | TP | Isopropylbenzene | 3.044 | 3.186 | -4.7 | 67 | 0.00 |
| 83 | S | 4-Bromofluorobenzene | 0.928 | 0.901 | 2.9 | 64 | 0.00 |
| 84 | TP | Bromobenzene | 0.668 | 0.681 | -1.9 | 66 | 0.00 |
| 85 | TP | n-Propylbenzene | 3.500 | 3.784 | -8.1 | 70 | 0.00 |
| 86 | TP | 1,4-Dichlorobutane | 0.787 | 0.851 | -8.1 | 74 | 0.00 |
| 87 | TP | 1,1,2,2-Tetrachloroethane | 0.470 | 0.545 | -16.0 | 78 | 0.00 |
| 88 | TP | 4-Ethyltoluene | 2.909 | 3.086 | -6.1 | 69 | 0.00 |
| 89 | TP | 2-Chlorotoluene | 2.008 | 2.184 | -8.8 | 70 | 0.00 |
| 90 | TP | 1,3,5-Trimethylbenzene | 2.482 | 2.607 | -5.0 | 68 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A01.D
Acq On : 21 Dec 2024 5:08 am
Operator : VOA101:PID
Sample : WG2012561-2
Misc : WG2012561,ICAL21767
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 05:38:37 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 91 | TP | 1,2,3-Trichloropropane | 0.383 | 0.421 | -9.9 | 72 | 0.00 |
| 92 | TP | trans-1,4-Dichloro-2-butene | 0.151 | 0.163 | -7.9 | 72 | 0.00 |
| 93 | TP | 4-Chlorotoluene | 2.040 | 2.216 | -8.6 | 70 | 0.00 |
| 94 | TP | tert-Butylbenzene | 2.101 | 2.173 | -3.4 | 67 | 0.00 |
| 97 | TP | 1,2,4-Trimethylbenzene | 2.399 | 2.527 | -5.3 | 68 | 0.00 |
| 98 | TP | sec-Butylbenzene | 3.032 | 3.243 | -7.0 | 69 | 0.00 |
| 99 | TP | p-Isopropyltoluene | 2.580 | 2.681 | -3.9 | 67 | 0.00 |
| 100 | TP | 1,3-Dichlorobenzene | 1.267 | 1.343 | -6.0 | 69 | 0.00 |
| 101 | TP | 1,4-Dichlorobenzene | 1.281 | 1.348 | -5.2 | 68 | 0.00 |
| 102 | TP | p-Diethylbenzene | 1.467 | 1.523 | -3.8 | 67 | 0.00 |
| 103 | TP | n-Butylbenzene | 2.074 | 2.296 | -10.7 | 72 | 0.00 |
| 104 | TP | 1,2-Dichlorobenzene | 1.102 | 1.183 | -7.4 | 69 | 0.00 |
| 105 | TP | 1,2,4,5-Tetramethylbenzene | 2.032 | 1.997 | 1.7 | 64 | 0.00 |
| 106 | TP | 1,2-Dibromo-3-chloropropane | 0.059 | 0.056 | 5.1 | 64 | 0.00 |
| 107 | TP | 1,3,5-Trichlorobenzene | 0.710 | 0.689 | 3.0 | 64 | 0.00 |
| 108 | TP | Hexachlorobutadiene | 0.262 | 0.222 | 15.3 | 58 | 0.00 |
| 109 | TP | 1,2,4-Trichlorobenzene | 0.566 | 0.536 | 5.3 | 62 | 0.00 |
| 110 | TP | Naphthalene | 1.152 | 1.142 | 0.9 | 66 | 0.00 |
| 111 | TP | 1,2,3-Trichlorobenzene | 0.435 | 0.408 | 6.2 | 62 | 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:\VOA101\2024\241221A\
Data File : V01241221A01.D
Acq On    : 21 Dec 2024   5:08 am
Operator  : VOA101:PID
Sample    : WG2012561-2
Misc      : WG2012561,ICAL21767
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Dec 21 05:38:37 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241221A\V01241221A01.D
Sub List     : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 -------------------------------------------------------------------------
 Internal Standards
 1) Fluorobenzene               5.899   96    209706    10.000 ug/L     0.00
   Standard Area 1 = 209706                 Recovery   =  100.00%
59) Chlorobenzene-d5            9.413  117    164101    10.000 ug/L     0.00
   Standard Area 1 = 164101                 Recovery   =  100.00%
79) 1,4-Dichlorobenzene-d4     12.143  152     88109    10.000 ug/L     0.00
   Standard Area 1 = 88109                 Recovery   =  100.00%

 System Monitoring Compounds
36) Dibromofluoromethane        5.101  113     55077     9.725 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =   97.25%
43) 1,2-Dichloroethane-d4       5.615   65     61623     9.978 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =   99.78%
60) Toluene-d8                  7.575   98    207554    10.034 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =  100.34%
83) 4-Bromofluorobenzene       10.924   95     79355     9.701 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =   97.01%

 Target Compounds                                                    Qvalue
 2) Dichlorodifluoromethane     1.621   85      65166     10.024 ug/L      98
 3) Chloromethane               1.811   50      69538     10.414 ug/L     100
 4) Vinyl chloride              1.872   62      83525     11.906 ug/L      99
 5) Bromomethane                2.171   94      25998      7.381 ug/L      99
 6) Chloroethane                2.285   64      67341     15.316 ug/L      95
 7) Trichlorofluoromethane      2.419  101     113649     12.458 ug/L      98
 8) Ethyl ether                 2.712   74      30142     12.408 ug/L #    68
10) 1,1-Dichloroethene          2.890   96      63977     12.169 ug/L      82
11) Carbon disulfide            2.921   76     196913     12.228 ug/L     100
12) Freon-113                   2.932  101      68751     12.366 ug/L      78
14) Acrolein                    3.208   56       6499     10.393 ug/L      95
15) Methylene chloride          3.431   84      50580      9.928 ug/L      81
17) Acetone                     3.484   43       9651      8.639 ug/L      89
18) trans-1,2-Dichloroethene    3.582   96      52123     10.124 ug/L      96
19) Methyl acetate              3.596   43      23562      9.889 ug/L #    90
20) Methyl tert-butyl ether     3.682   73      98591      8.965 ug/L #    87
21) tert-Butyl alcohol          3.782   59      11317     42.688 ug/L #    61
22) Diisopropyl ether           4.031   45     194358     10.598 ug/L      97
23) 1,1-Dichloroethane          4.153   63     105116     10.635 ug/L      98
24) Halothane                   4.206  117      39751      9.870 ug/L     100
25) Acrylonitrile               4.201   53      10794     10.354 ug/L     100
```

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A01.D
Acq On : 21 Dec 2024 5:08 am
Operator : VOA101:PID
Sample : WG2012561-2
Misc : WG2012561,ICAL21767
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 05:38:37 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241221A\V01241221A01.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 | 4.374 | 59 | 143792 | 9.386 ug/L | 93 |
| 27) Vinyl acetate | 4.385 | 43 | 109690 | 12.179 ug/L # | 95 |
| 28) cis-1,2-Dichloroethene | 4.664 | 96 | 57601 | 10.246 ug/L | 95 |
| 29) 2,2-Dichloropropane | 4.758 | 77 | 76874 | 9.453 ug/L | 83 |
| 30) Bromochloromethane | 4.853 | 128 | 25638 | 9.821 ug/L # | 85 |
| 31) Cyclohexane | 4.856 | 56 | 107624 | 10.316 ug/L | 88 |
| 32) Chloroform | 4.923 | 83 | 94010 | 10.269 ug/L | 94 |
| 33) Ethyl acetate | 5.037 | 43 | 35256 | 10.693 ug/L # | 93 |
| 34) Carbon tetrachloride | 5.057 | 117 | 72017 | 9.596 ug/L | 98 |
| 35) Tetrahydrofuran | 5.079 | 42 | 9907M4 | 10.197 ug/L | |
| 37) 1,1,1-Trichloroethane | 5.121 | 97 | 83643 | 9.991 ug/L | 96 |
| 39) 2-Butanone | 5.219 | 43 | 15777 | 10.312 ug/L # | 47 |
| 40) 1,1-Dichloropropene | 5.238 | 75 | 72827 | 10.194 ug/L | 97 |
| 41) Benzene | 5.481 | 78 | 212411 | 10.564 ug/L | 95 |
| 42) tert-Amyl methyl ether | 5.595 | 73 | 105631 | 8.893 ug/L # | 85 |
| 44) 1,2-Dichloroethane | 5.684 | 62 | 68683 | 10.403 ug/L | 99 |
| 47) Methyl cyclohexane | 6.061 | 83 | 89910 | 9.690 ug/L | 87 |
| 48) Trichloroethene | 6.077 | 95 | 58081 | 10.384 ug/L | 98 |
| 50) Dibromomethane | 6.512 | 93 | 28004 | 10.254 ug/L | 92 |
| 51) 1,2-Dichloropropane | 6.613 | 63 | 57545 | 10.686 ug/L | 96 |
| 54) Bromodichloromethane | 6.688 | 83 | 68757 | 9.899 ug/L | 100 |
| 57) 1,4-Dioxane | 6.900 | 88 | 11600 | 415.142 ug/L | 89 |
| 58) cis-1,3-Dichloropropene | 7.369 | 75 | 75134 | 9.452 ug/L # | 87 |
| 61) Toluene | 7.633 | 92 | 138607 | 10.502 ug/L | 99 |
| 62) 4-Methyl-2-pentanone | 8.063 | 58 | 11361 | 9.866 ug/L # | 91 |
| 63) Tetrachloroethene | 8.082 | 166 | 54904 | 9.904 ug/L | 95 |
| 65) trans-1,3-Dichloropropene | 8.119 | 75 | 62217 | 9.593 ug/L | 88 |
| 67) Ethyl methacrylate | 8.306 | 69 | 38714 | 9.317 ug/L | 88 |
| 68) 1,1,2-Trichloroethane | 8.306 | 83 | 32755 | 10.710 ug/L | 98 |
| 69) Chlorodibromomethane | 8.512 | 129 | 45943 | 9.778 ug/L | 98 |
| 70) 1,3-Dichloropropane | 8.621 | 76 | 66121 | 10.765 ug/L | 100 |
| 71) 1,2-Dibromoethane | 8.788 | 107 | 37301 | 10.457 ug/L | 99 |
| 72) 2-Hexanone | 9.075 | 43 | 19609M1 | 9.785 ug/L | |
| 73) Chlorobenzene | 9.432 | 112 | 156665 | 10.378 ug/L | 98 |
| 74) Ethylbenzene | 9.471 | 91 | 276947 | 10.640 ug/L | 100 |
| 75) 1,1,1,2-Tetrachloroethane | 9.519 | 131 | 51878 | 9.920 ug/L | 99 |
| 76) p/m Xylene | 9.655 | 106 | 214085 | 20.676 ug/L | 98 |
| 77) o Xylene | 10.202 | 106 | 205066 | 20.770 ug/L | 98 |
| 78) Styrene | 10.272 | 104 | 348293 | 21.314 ug/L | 96 |
| 80) Bromoform | 10.299 | 173 | 22670 | 9.096 ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A01.D
Acq On : 21 Dec 2024 5:08 am
Operator : VOA101:PID
Sample : WG2012561-2
Misc : WG2012561,ICAL21767
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 05:38:37 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241221A\V01241221A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 82) Isopropylbenzene | 10.592 | 105 | 280675 | 10.465 ug/L | 98 |
| 84) Bromobenzene | 11.036 | 156 | 59985 | 10.189 ug/L | 99 |
| 85) n-Propylbenzene | 11.077 | 91 | 333417 | 10.813 ug/L | 100 |
| 86) 1,4-Dichlorobutane | 11.097 | 55 | 74971 | 10.810 ug/L | 97 |
| 87) 1,1,2,2-Tetrachloroethane | 11.172 | 83 | 47979 | 11.594 ug/L | 100 |
| 88) 4-Ethyltoluene | 11.206 | 105 | 271928 | 10.610 ug/L | 99 |
| 89) 2-Chlorotoluene | 11.245 | 91 | 192407M1 | 10.876 ug/L | |
| 90) 1,3,5-Trimethylbenzene | 11.306 | 105 | 229707 | 10.502 ug/L | 99 |
| 91) 1,2,3-Trichloropropane | 11.306 | 75 | 37080M1 | 10.979 ug/L | |
| 92) trans-1,4-Dichloro-2-b... | 11.359 | 53 | 14335M4 | 10.790 ug/L | |
| 93) 4-Chlorotoluene | 11.434 | 91 | 195272 | 10.864 ug/L | 100 |
| 94) tert-Butylbenzene | 11.646 | 119 | 191417 | 10.342 ug/L | 99 |
| 97) 1,2,4-Trimethylbenzene | 11.730 | 105 | 222667 | 10.535 ug/L | 99 |
| 98) sec-Butylbenzene | 11.839 | 105 | 285776 | 10.697 ug/L | 97 |
| 99) p-Isopropyltoluene | 11.995 | 119 | 236259 | 10.391 ug/L | 98 |
| 100) 1,3-Dichlorobenzene | 12.065 | 146 | 118346 | 10.604 ug/L | 99 |
| 101) 1,4-Dichlorobenzene | 12.157 | 146 | 118795 | 10.522 ug/L | 99 |
| 102) p-Diethylbenzene | 12.371 | 119 | 134176 | 10.382 ug/L | 97 |
| 103) n-Butylbenzene | 12.427 | 91 | 202342 | 11.072 ug/L | 99 |
| 104) 1,2-Dichlorobenzene | 12.581 | 146 | 104249 | 10.739 ug/L | 99 |
| 105) 1,2,4,5-Tetramethylben... | 13.169 | 119 | 175924 | 9.828 ug/L | 99 |
| 106) 1,2-Dibromo-3-chloropr... | 13.364 | 155 | 4935 | 9.469 ug/L | 98 |
| 107) 1,3,5-Trichlorobenzene | 13.400 | 180 | 60742 | 9.704 ug/L | 97 |
| 108) Hexachlorobutadiene | 13.972 | 225 | 19535 | 8.455 ug/L | 99 |
| 109) 1,2,4-Trichlorobenzene | 14.000 | 180 | 47210 | 9.473 ug/L | 97 |
| 110) Naphthalene | 14.290 | 128 | 100618 | 9.910 ug/L | 100 |
| 111) 1,2,3-Trichlorobenzene | 14.463 | 180 | 35919 | 9.376 ug/L | 98 |

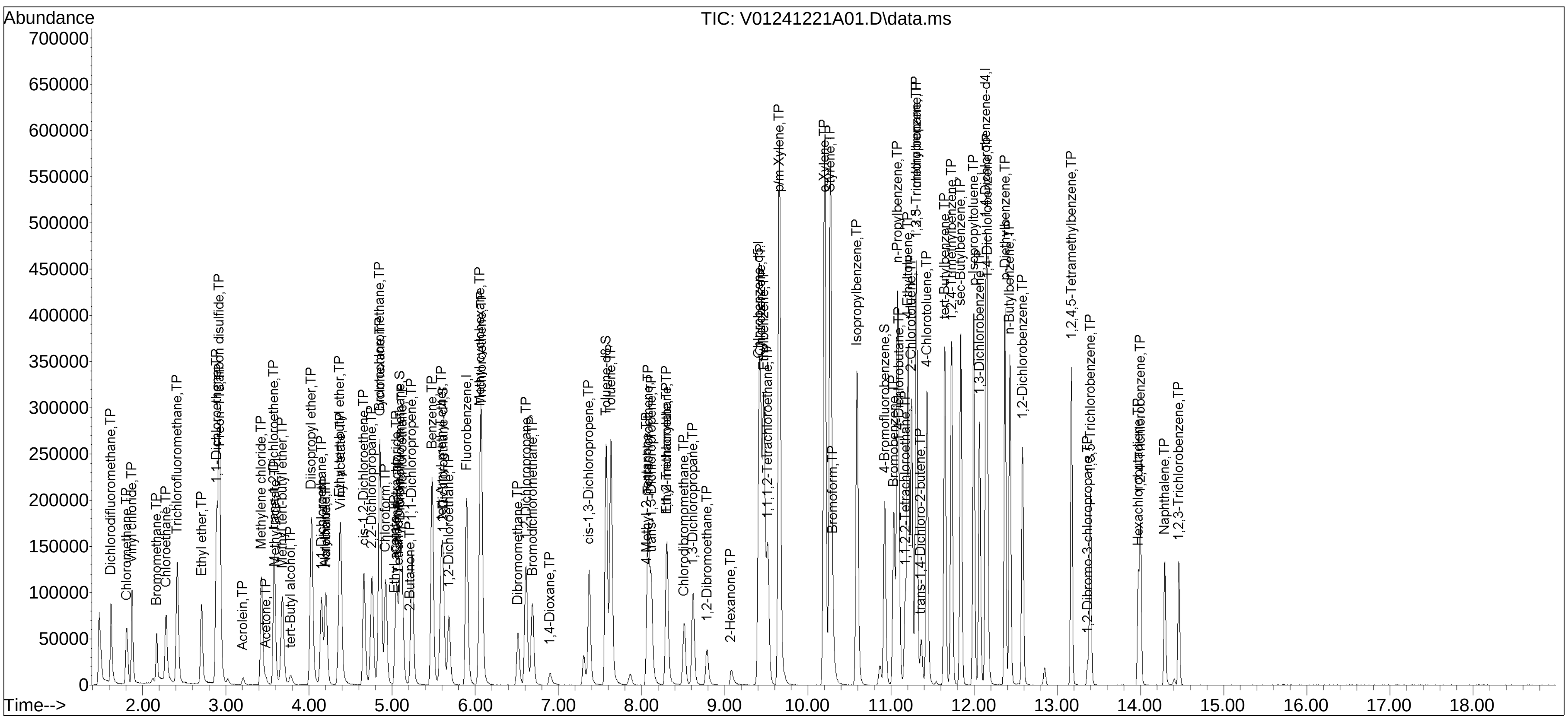
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A01.D
Acq On    : 21 Dec 2024   5:08 am
Operator  : VOA101:PID
Sample    : WG2012561-2
Misc      : WG2012561,ICAL21767
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Dec 21 05:38:37 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

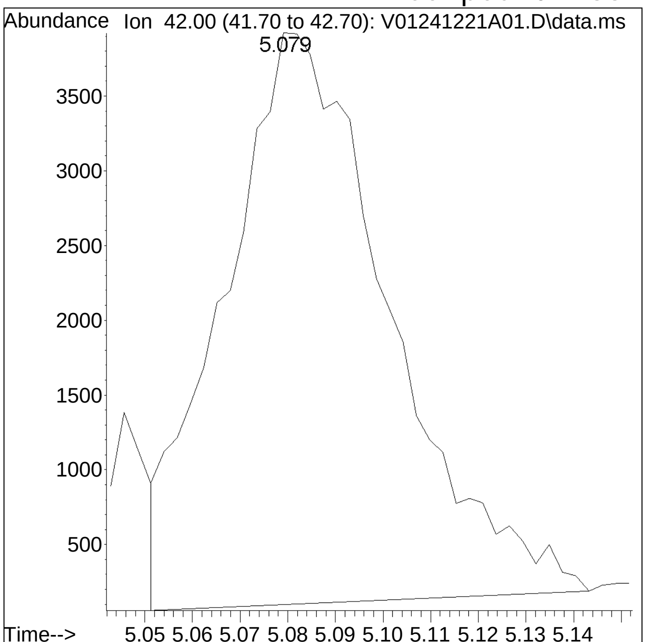
Sub List     : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

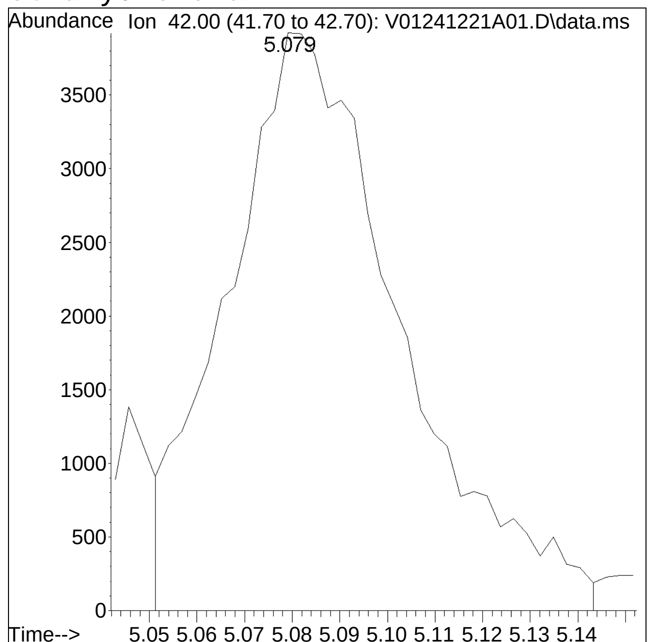


Manual Integration Report

```
Data Path    : K:\VOA101\2024\241221A\    QMethod      : V101_241206N_8260.m
Data File    : V01241221A01.D             Operator     : VOA101:PID
Date Inj'd   : 12/21/2024  5:08 am        Instrument   : VOA 101
Sample       : WG2012561-2                Quant Date   : 12/21/2024  5:38 am
```

Compound #35: Tetrahydrofuran



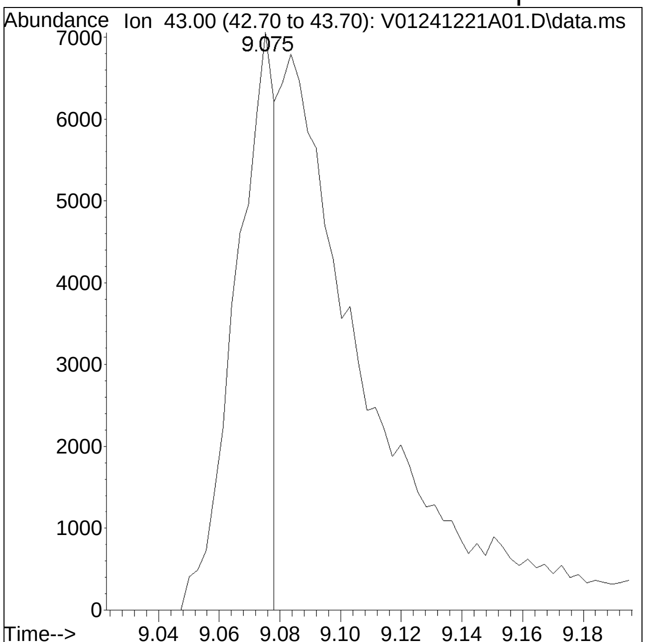

Original Peak Response = 9223        Manual Peak Response = 9907 M4

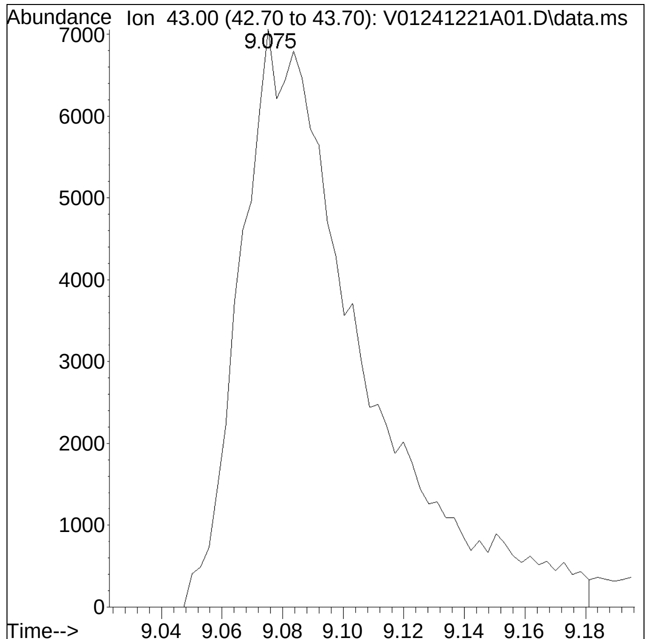
M4 = Poor automated baseline construction.

Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA101\2024\241221A\ | QMethod | : V101_241206N_8260.m |
| Data File | : V01241221A01.D | Operator | : VOA101:PID |
| Date Inj'd | : 12/21/2024 5:08 am | Instrument | : VOA 101 |
| Sample | : WG2012561-2 | Quant Date | : 12/21/2024 5:38 am |

Compound #72: 2-Hexanone



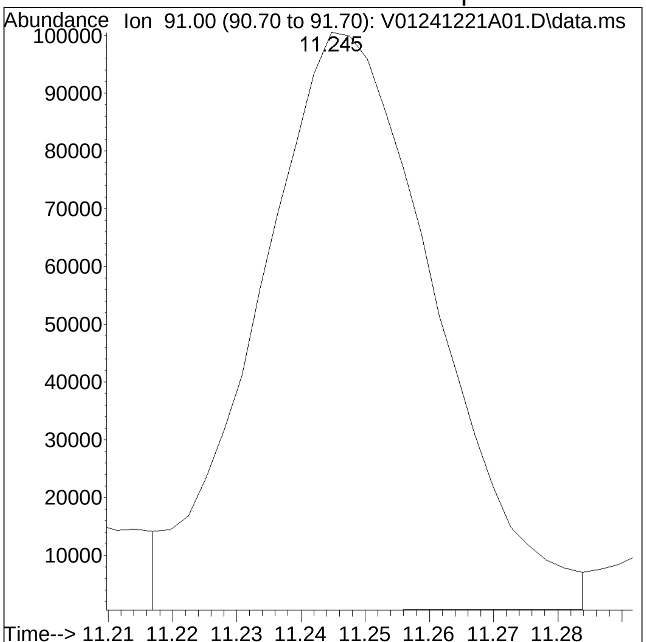

Original Peak Response = 6353 Manual Peak Response = 19609 M1

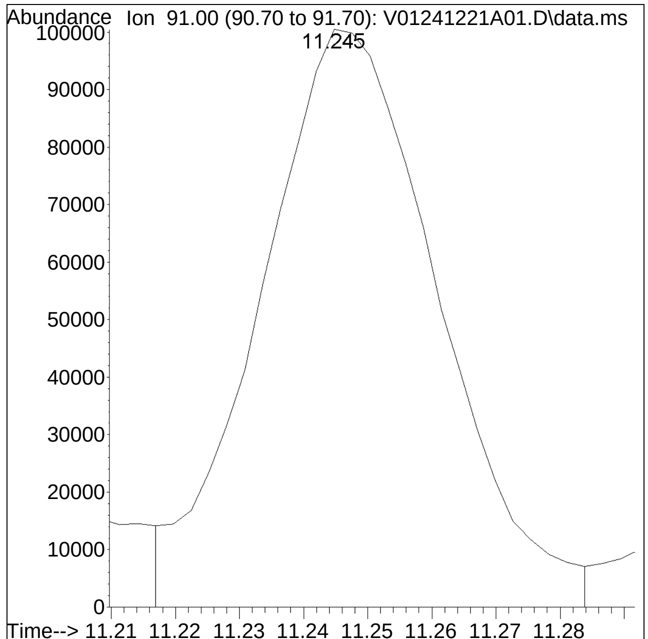
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

```
Data Path   : K:\VOA101\2024\241221A\   QMethod     : V101_241206N_8260.m
Data File   : V01241221A01.D            Operator    : VOA101:PID
Date Inj'd  : 12/21/2024  5:08 am       Instrument  : VOA 101
Sample      : WG2012561-2               Quant Date  : 12/21/2024  5:38 am
```

Compound #89: 2-Chlorotoluene



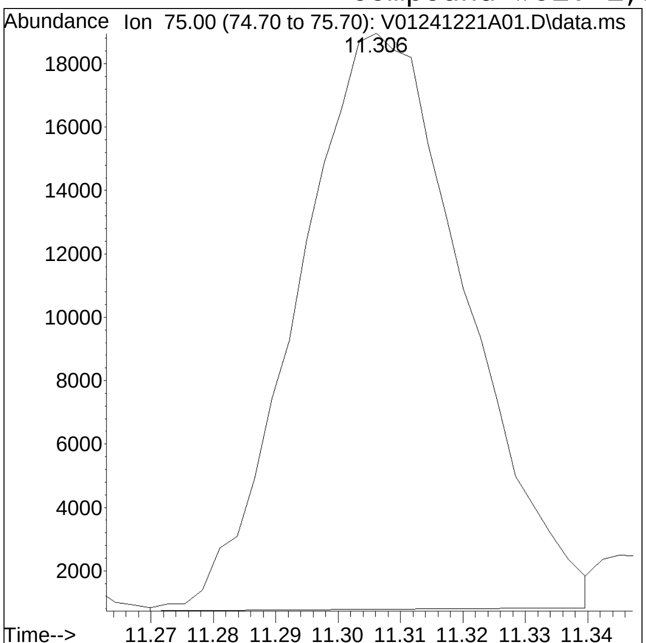

Original Peak Response = 190102     Manual Peak Response = 192407 M1

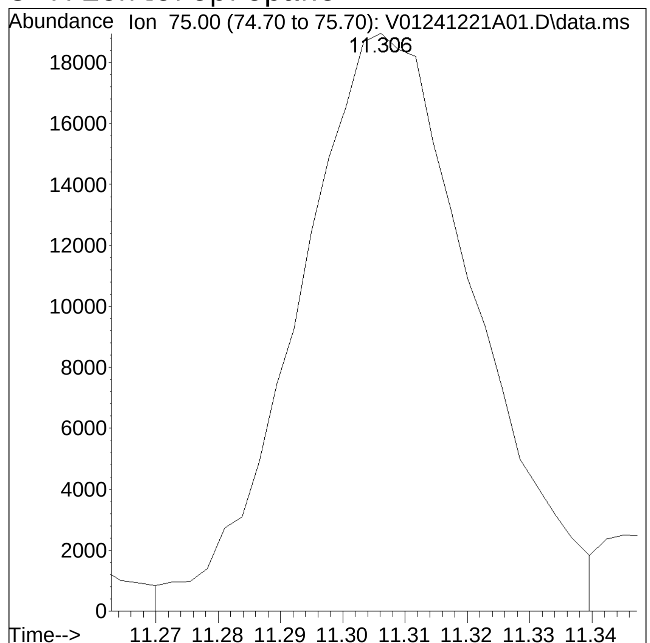
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA101\2024\241221A\ | QMethod | : V101_241206N_8260.m |
| Data File | : V01241221A01.D | Operator | : VOA101:PID |
| Date Inj'd | : 12/21/2024 5:08 am | Instrument | : VOA 101 |
| Sample | : WG2012561-2 | Quant Date | : 12/21/2024 5:38 am |

Compound #91: 1,2,3-Trichloropropane



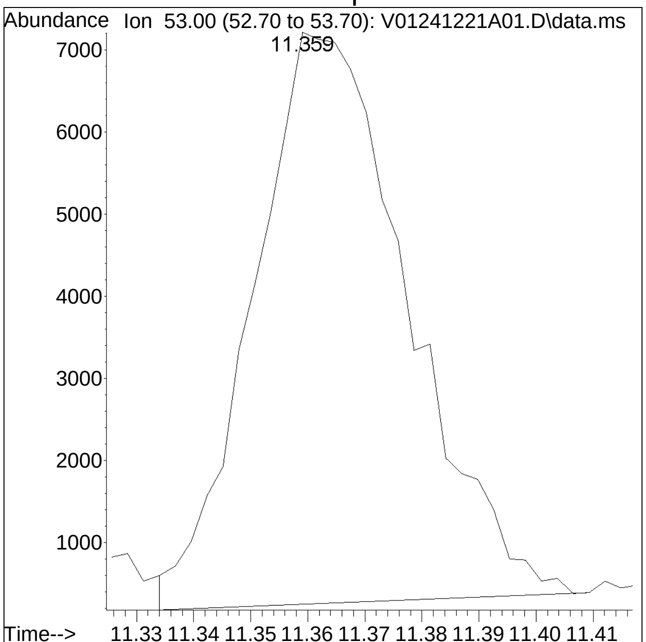

Original Peak Response = 33790    Manual Peak Response = 37080 M1

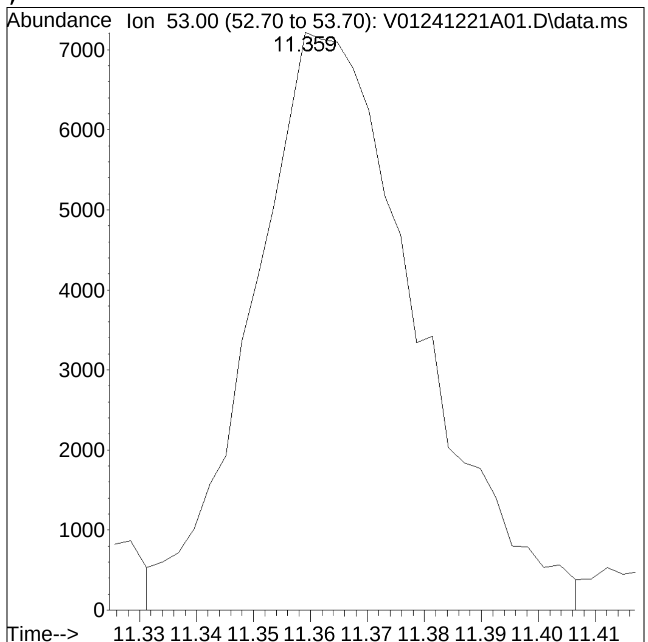
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

| | | | | | |
|---|---|---|---|---|---|
| Data Path | : K:\VOA101\2024\241221A\ | | QMethod | : V101_241206N_8260.m |
| Data File | : V01241221A01.D | | Operator | : VOA101:PID |
| Date Inj'd | : 12/21/2024 5:08 am | | Instrument | : VOA 101 |
| Sample | : WG2012561-2 | | Quant Date | : 12/21/2024 5:38 am |

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




Original Peak Response = 13007 Manual Peak Response = 14335 M4

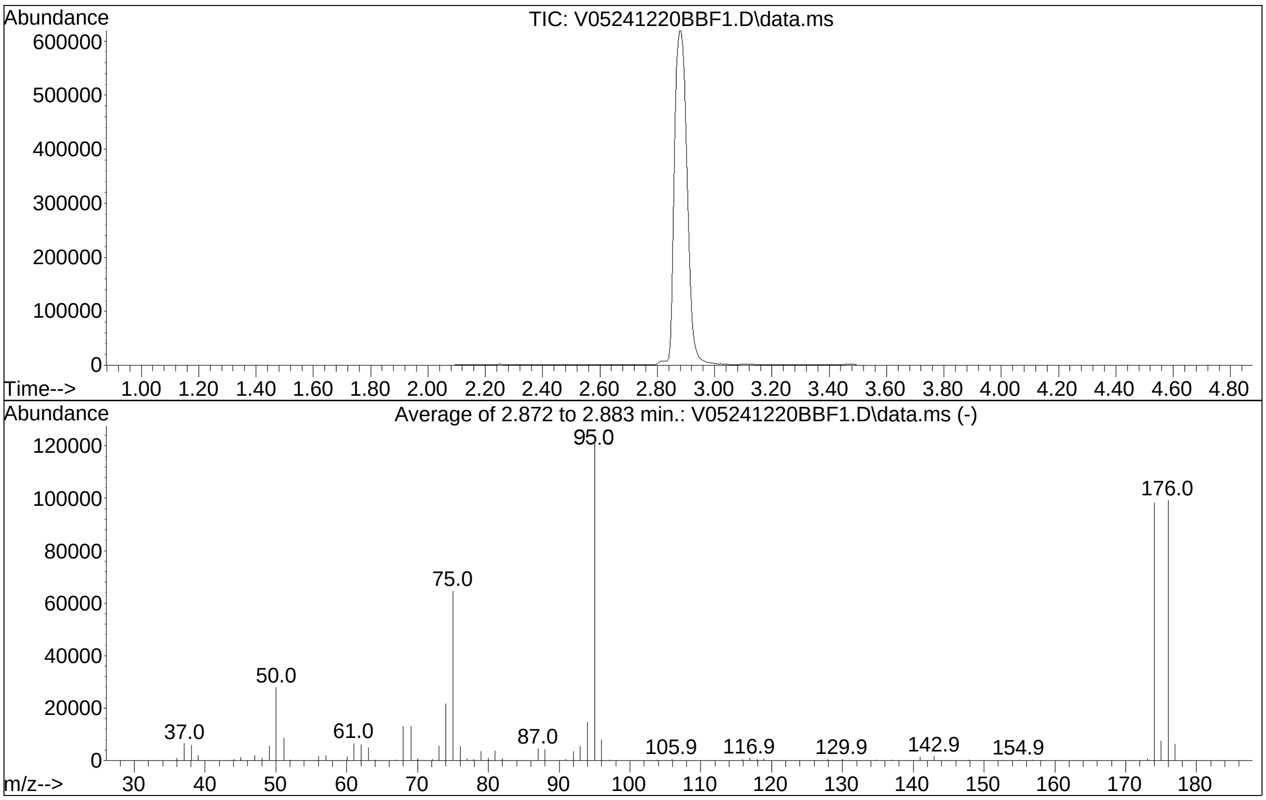
M4 = Poor automated baseline construction.

BFB

Data Path : K:\VOA105\2024\241220B\
Data File : V05241220BBF1.D
Acq On : 20 Dec 2024 9:15 am
Operator : VOA105:PID
Sample : WG2012422-1
Misc : WG2012422
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Nov 06 11:41:24 2024



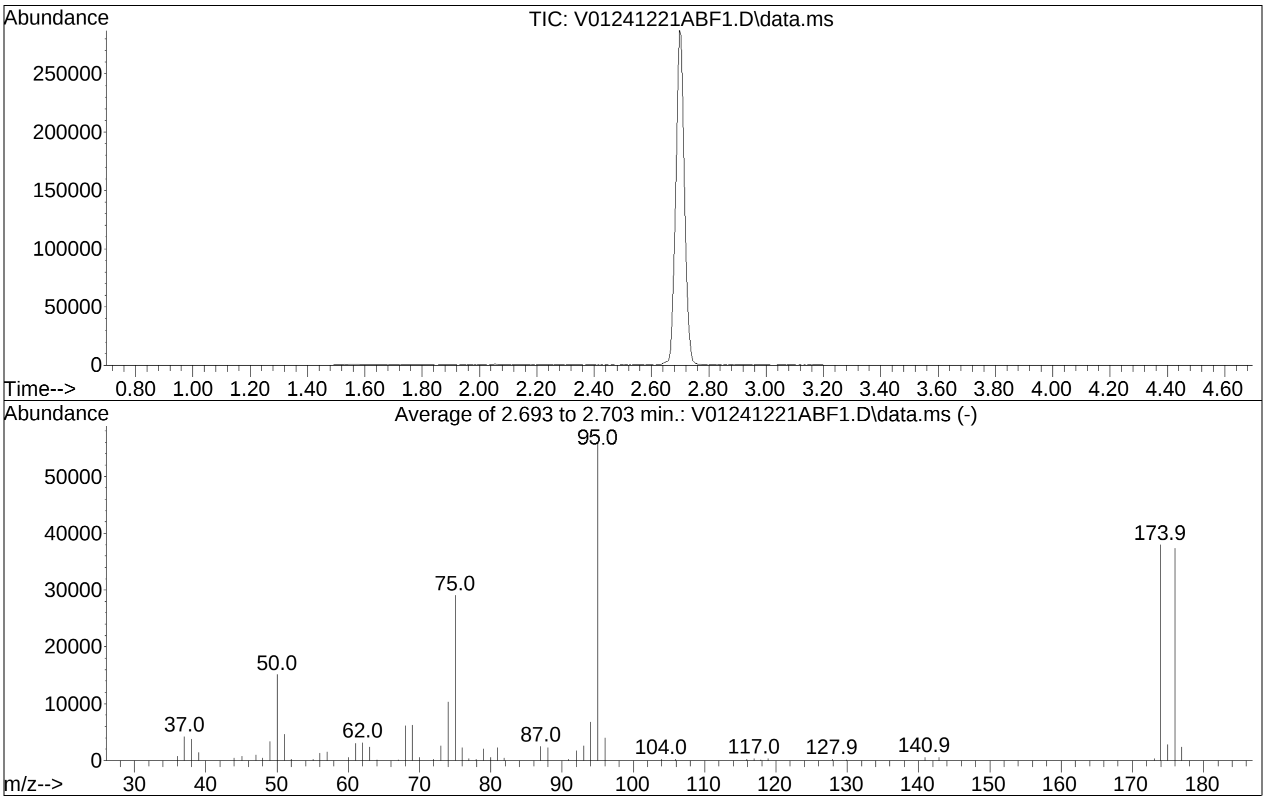

AutoFind: Scans 144, 145, 146; Background Corrected with Scan 135

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 23.0 | 28003 | PASS |
| 75 | 95 | 30 | 60 | 53.2 | 64693 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 121683 | PASS |
| 96 | 95 | 5 | 9 | 6.6 | 8037 | PASS |
| 173 | 174 | 0.00 | 2 | 0.7 | 674 | PASS |
| 174 | 95 | 50 | 100 | 80.9 | 98461 | PASS |
| 175 | 174 | 5 | 9 | 7.7 | 7607 | PASS |
| 176 | 174 | 95 | 101 | 100.8 | 99200 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 6436 | PASS |

Data Path : K:\VOA101\2024\241221A\
Data File : V01241221ABF1.D
Acq On : 21 Dec 2024 4:53 am
Operator : VOA101:PID
Sample : WG2012561-1
Misc : WG2012561,ICAL21767
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Dec 09 07:45:49 2024




Spectrum Information: Average of 2.693 to 2.703 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 26.9 | 15106 | PASS |
| 75 | 95 | 30 | 60 | 51.8 | 29107 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 56160 | PASS |
| 96 | 95 | 5 | 9 | 7.0 | 3955 | PASS |
| 173 | 174 | 0.00 | 2 | 0.8 | 308 | PASS |
| 174 | 95 | 50 | 100 | 67.7 | 38000 | PASS |
| 175 | 174 | 5 | 9 | 7.5 | 2835 | PASS |
| 176 | 174 | 95 | 101 | 98.2 | 37328 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 2430 | PASS |

# Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241220B\
Data File : V05241220B05.D
Acq On : 20 Dec 2024 11:11 am
Operator : VOA105:PID
Sample : WG2012422-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 12:09:58 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241220B\V05241220B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) Fluorobenzene | 5.655 | 96 | 401661 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 432025 | | | Recovery | = 92.97% | |
| 59) Chlorobenzene-d5 | 9.147 | 117 | 321741 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 336874 | | | Recovery | = 95.51% | |
| 79) 1,4-Dichlorobenzene-d4 | 11.920 | 152 | 175683 | 10.000 ug/L | 0.00 |
| Standard Area 1 = 194778 | | | Recovery | = 90.20% | |
| System Monitoring Compounds | | | | | |
| 36) Dibromofluoromethane | 4.872 | 113 | 112851 | 10.904 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 109.04% | |
| 43) 1,2-Dichloroethane-d4 | 5.381 | 65 | 143184 | 10.494 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 104.94% | |
| 60) Toluene-d8 | 7.318 | 98 | 393706 | 9.762 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 97.62% | |
| 83) 4-Bromofluorobenzene | 10.676 | 95 | 149924 | 9.381 ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery | = 93.81% | |
| Target Compounds | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 0.000 | | 0 | N.D. d | |
| 3) Chloromethane | 1.664 | 50 | 406 | N.D. | |
| 4) Vinyl chloride | 0.000 | | 0 | N.D. | |
| 5) Bromomethane | 2.007 | 94 | 312 | 0.358 ug/L | 84 |
| 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 | 2.721 | 76 | 508 | N.D. | |
| 12) Freon-113 | 0.000 | | 0 | N.D. | |
| 15) Methylene chloride | 3.229 | 84 | 97 | N.D. | |
| 17) Acetone | 0.000 | | 0 | N.D. d | |
| 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\2024\241220B\
Data File : V05241220B05.D
Acq On : 20 Dec 2024 11:11 am
Operator : VOA105:PID
Sample : WG2012422-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 12:09:58 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241220B\V05241220B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 37) 1,1,1-Trichloroethane | 0.000 | | 0 | N.D. | |
| 39) 2-Butanone | 5.009 | 43 | 3711 | 0.862 ug/L # | 24 |
| 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 | 5.792 | 95 | 111 | 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 | 9.138 | 91 | 475 | 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 | 11.939 | 146 | 199 | N.D. | |
| 101) 1,4-Dichlorobenzene | 11.939 | 146 | 199 | 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 | 13.820 | 180 | 108 | N.D. | |
| 111) 1,2,3-Trichlorobenzene | 14.261 | 180 | 486 | N.D. | |

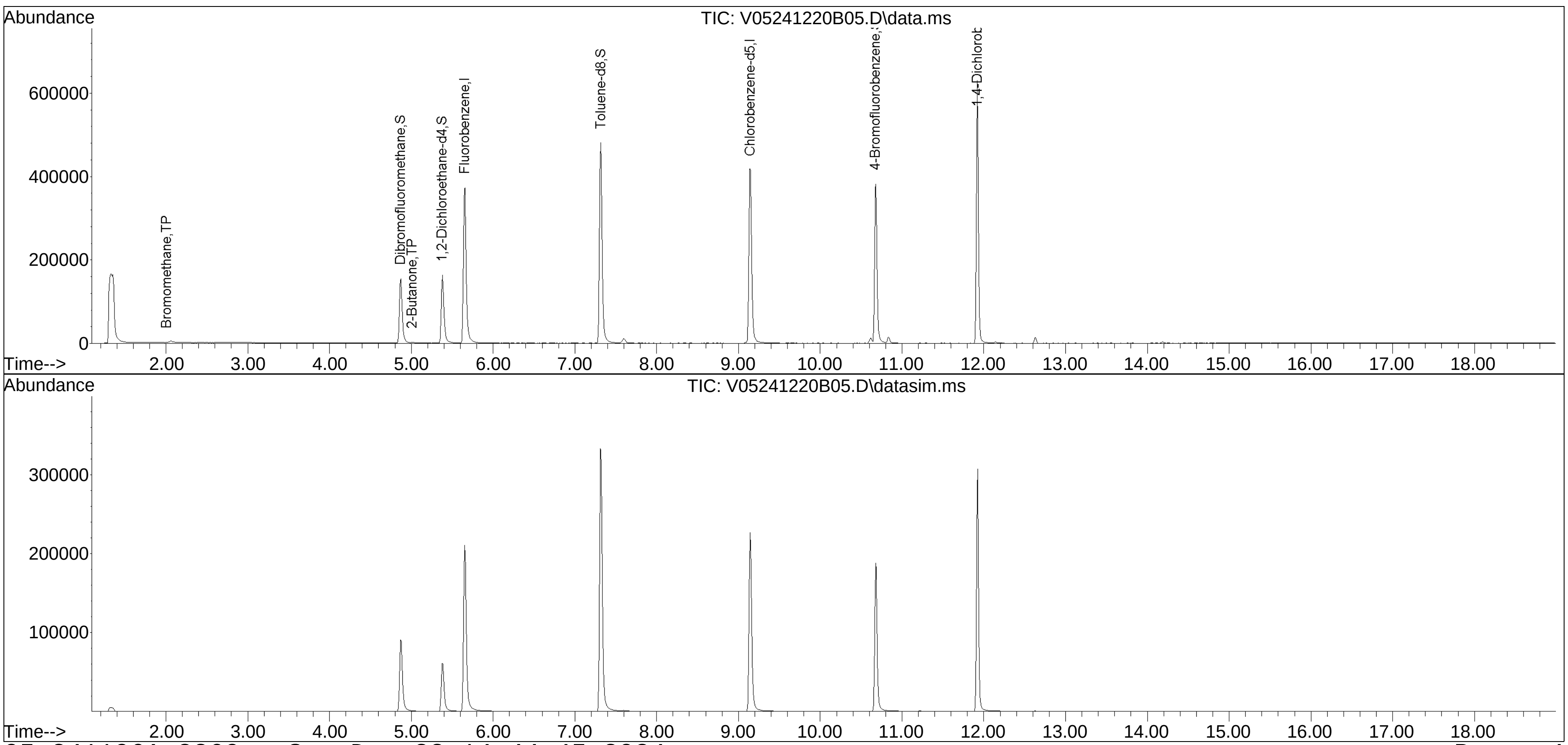
(#) = qualifier out of range (m) = manual integration (+) = signals summed

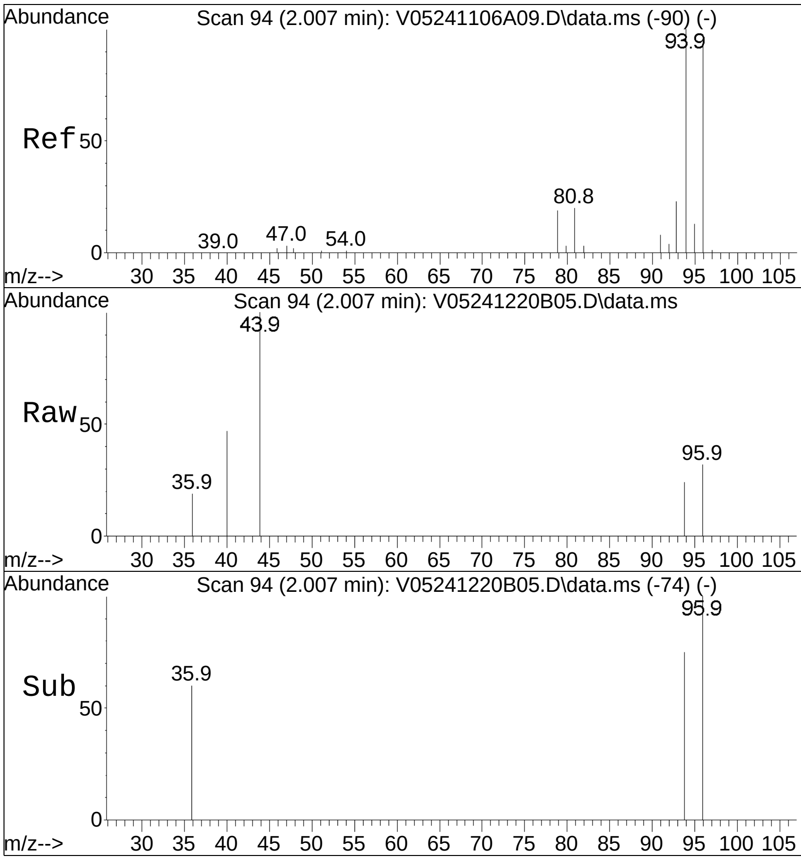
Quantitation Report    (QT Reviewed)

Data Path : K:\VOA105\2024\241220B\
Data File : V05241220B05.D
Acq On    : 20 Dec 2024  11:11 am
Operator  : VOA105:PID
Sample    : WG2012422-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc      : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Dec 20 12:09:58 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

Sub List     : 8260-NY_R2 - NYSOM01.2 + NYSTARS1220B02.D•

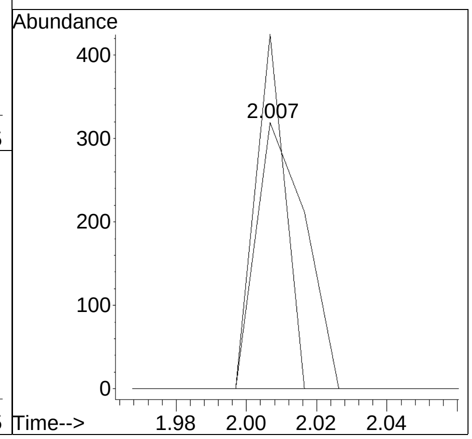


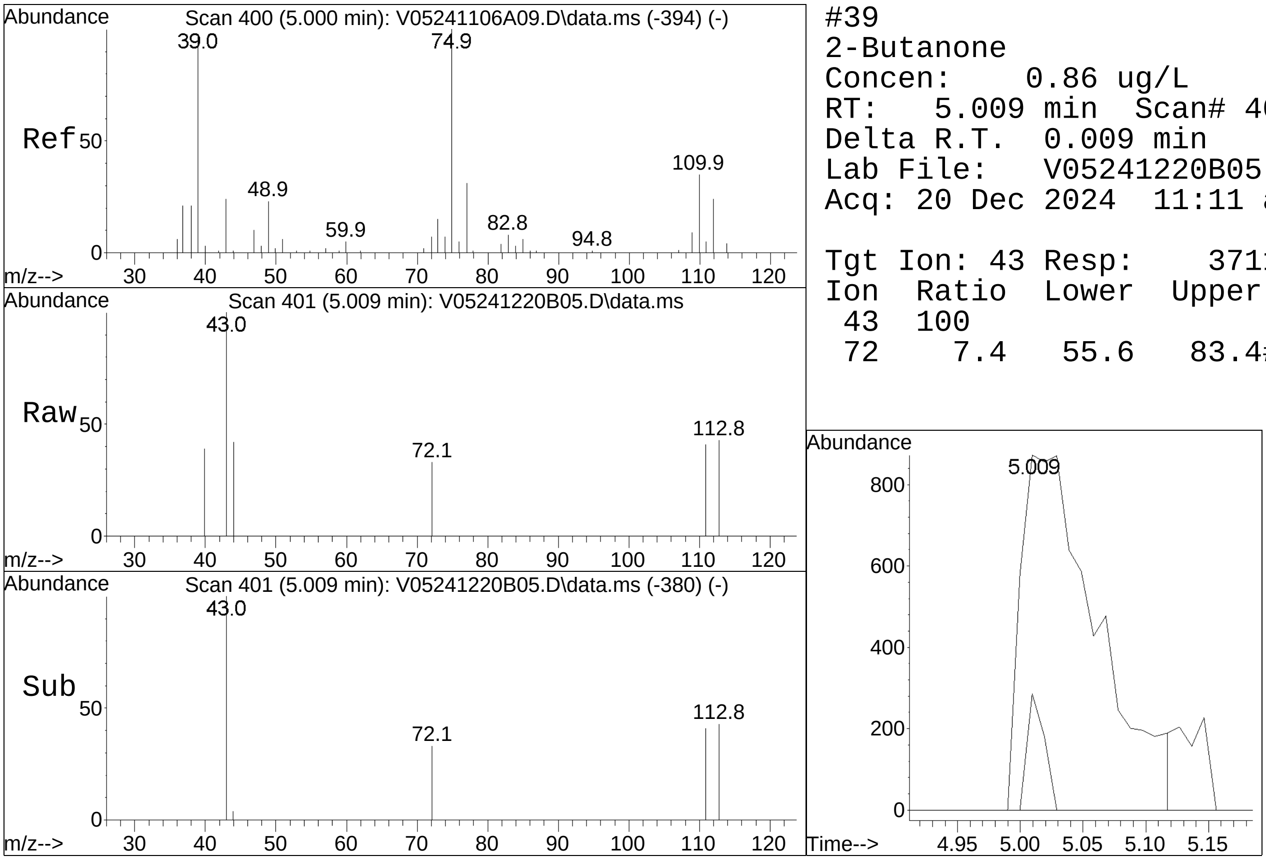



#5
Bromomethane
Concen: 0.36 ug/L
RT: 2.007 min Scan# 94
Delta R.T. -0.000 min
Lab File: V05241220B05.D
Acq: 20 Dec 2024 11:11 am

Tgt Ion: 94 Resp: 312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 79.8 | 75.4 | 115.4 |






#39
2-Butanone
Concen: 0.86 ug/L
RT: 5.009 min Scan# 401
Delta R.T. 0.009 min
Lab File: V05241220B05.D
Acq: 20 Dec 2024 11:11 am

Tgt Ion: 43 Resp: 3711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 7.4 | 55.6 | 83.4# |

Manual Integration Report

```
Data Path   : K:\VOA105\2024\241220B\   QMethod     : V105_241106A_8260.m
Data File   : V05241220B05.D            Operator    : VOA105:PID
Date Inj'd  : 12/20/2024 11:11 am       Instrument  : VOA105
Sample      : WG2012422-5,31,10,10      Quant Date  : 12/20/2024 12:09 pm
```

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

Quantitation Report (QT Reviewed)

```
Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A05.D
Acq On    : 21 Dec 2024   6:51 am
Operator  : VOA101:PID
Sample    : WG2012561-5,31,10,10
Misc      : WG2012561,ICAL21767
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Dec 21 07:12:36 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241221A\V01241221A01.D
Sub List     : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) Fluorobenzene               5.899   96    194153    10.000 ug/L     0.00
   Standard Area 1 = 209706                Recovery   =   92.58%
59) Chlorobenzene-d5            9.412  117    146955    10.000 ug/L     0.00
   Standard Area 1 = 164101                Recovery   =   89.55%
79) 1,4-Dichlorobenzene-d4     12.143  152     69525    10.000 ug/L     0.00
   Standard Area 1 = 88109                Recovery   =   78.91%

 System Monitoring Compounds
36) Dibromofluoromethane        5.098  113     50156     9.566 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   95.66%
43) 1,2-Dichloroethane-d4       5.617   65     57026     9.973 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   99.73%
60) Toluene-d8                  7.575   98    190263    10.271 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =  102.71%
83) 4-Bromofluorobenzene       10.924   95     64492     9.991 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   99.91%

 Target Compounds                                                 Qvalue
 2) Dichlorodifluoromethane     0.000               0       N.D.
 3) Chloromethane               0.000               0       N.D.
 4) Vinyl chloride              0.000               0       N.D.
 5) Bromomethane                2.170   94        355      0.109 ug/L      84
 6) Chloroethane                2.237   64         31       N.D.
 7) Trichlorofluoromethane      0.000               0       N.D.
10) 1,1-Dichloroethene          0.000               0       N.D.
11) Carbon disulfide            2.921   76       1121      0.075 ug/L #    73
12) Freon-113                   0.000               0       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              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:\VOA101\2024\241221A\
Data File : V01241221A05.D
Acq On : 21 Dec 2024 6:51 am
Operator : VOA101:PID
Sample : WG2012561-5,31,10,10
Misc : WG2012561,ICAL21767
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 21 07:12:36 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241221A\V01241221A01.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. 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 | 9.496 | 91 | 32 | 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 | 10.612 | 105 | 31 | N.D. | |
| 87) 1,1,2,2-Tetrachloroethane | 0.000 | | 0 | N.D. | |
| 100) 1,3-Dichlorobenzene | 12.078 | 146 | 159 | N.D. | |
| 101) 1,4-Dichlorobenzene | 12.162 | 146 | 273 | N.D. | |
| 104) 1,2-Dichlorobenzene | 12.625 | 146 | 29 | N.D. | |
| 106) 1,2-Dibromo-3-chloropr... | 0.000 | | 0 | N.D. | |
| 109) 1,2,4-Trichlorobenzene | 14.019 | 180 | 128 | N.D. | |
| 111) 1,2,3-Trichlorobenzene | 14.457 | 180 | 57 | N.D. | |

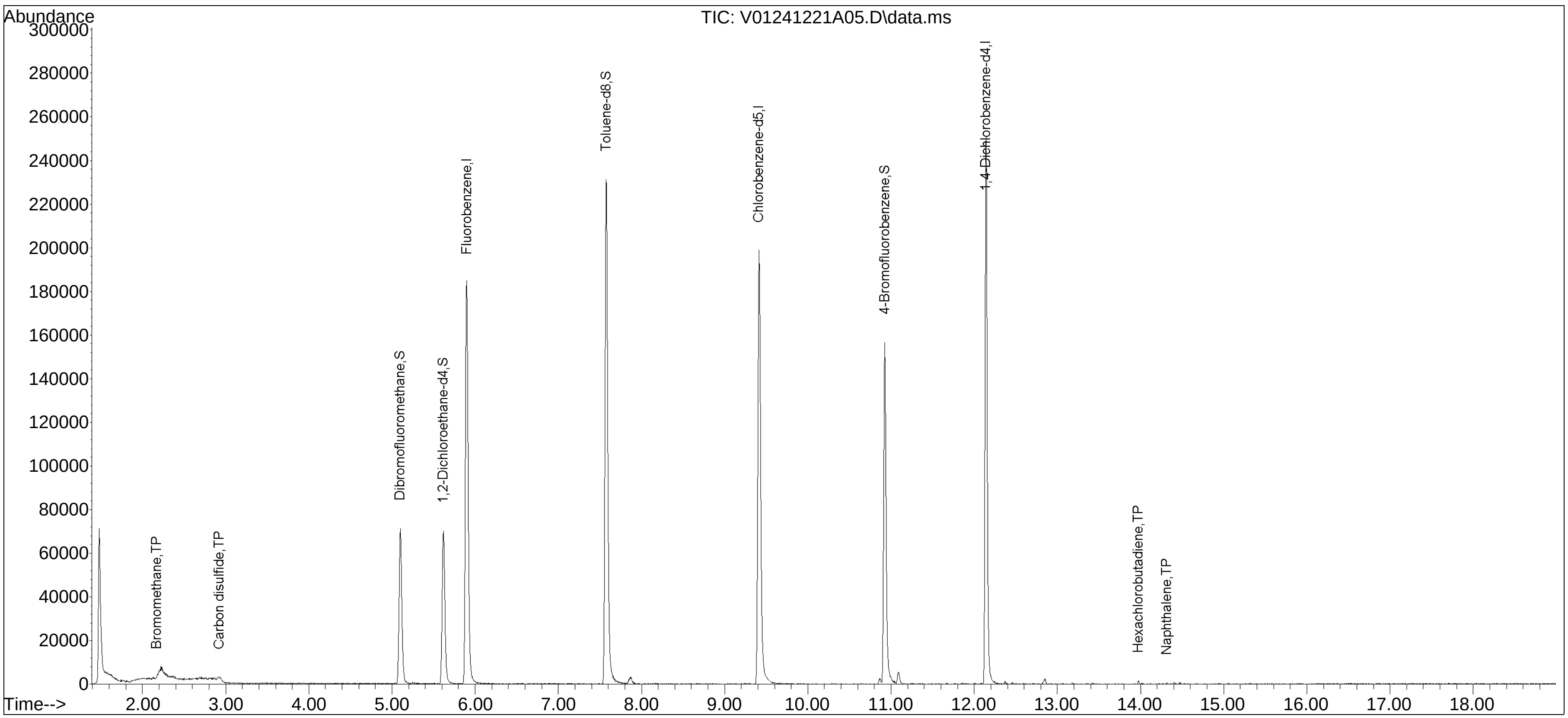
(#) = qualifier out of range (m) = manual integration (+) = signals summed

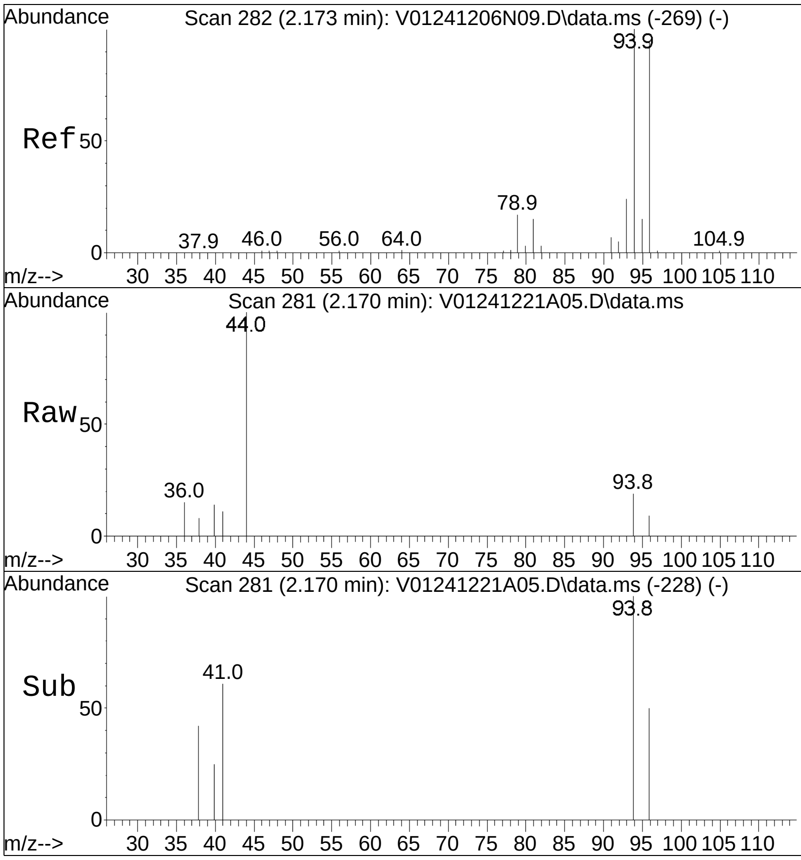
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A05.D
Acq On : 21 Dec 2024 6:51 am
Operator : VOA101:PID
Sample : WG2012561-5,31,10,10
Misc : WG2012561,ICAL21767
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 21 07:12:36 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

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

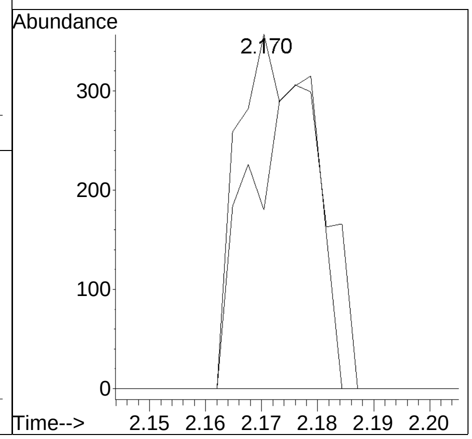


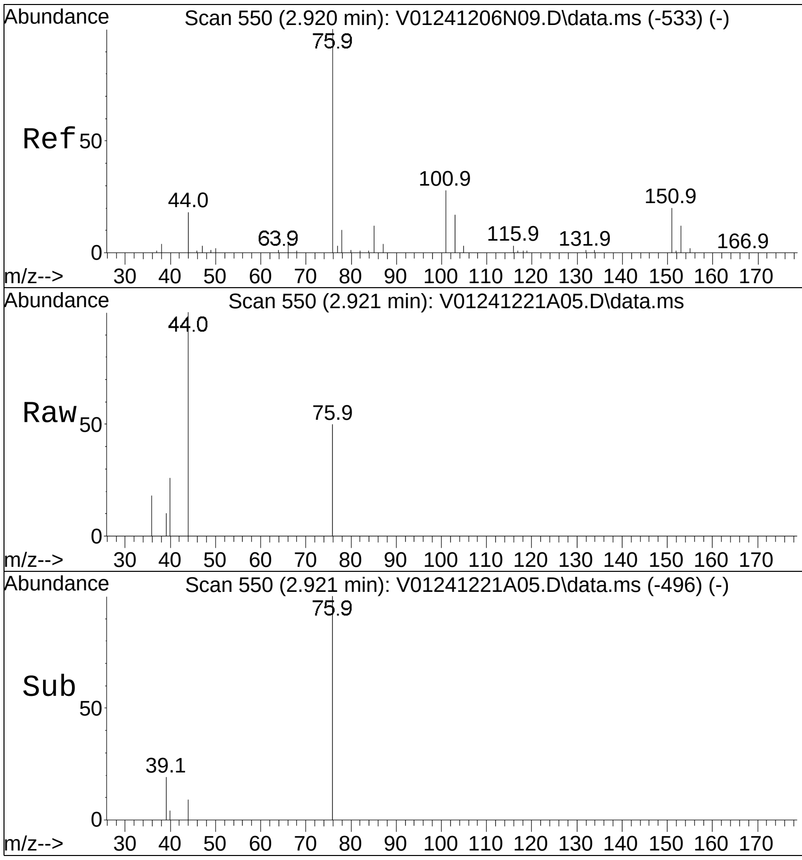



#5
Bromomethane
Concen: 0.11 ug/L
RT: 2.170 min Scan# 281
Delta R.T. -0.003 min
Lab File: V01241221A05.D
Acq: 21 Dec 2024 6:51 am

Tgt Ion: 94 Resp: 355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 78.0 | 73.6 | 113.6 |

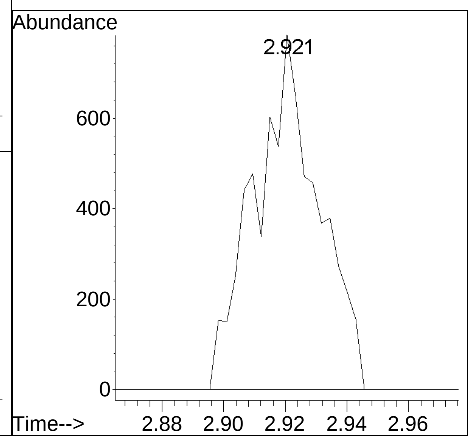





#11
Carbon disulfide
Concen: 0.08 ug/L
RT: 2.921 min Scan# 550
Delta R.T. 0.001 min
Lab File: V01241221A05.D
Acq: 21 Dec 2024 6:51 am

Tgt Ion: 76 Resp: 1121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 0.0 | 6.6 | 13.8# |



Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA101\2024\241221A\ | QMethod | : V101_241206N_8260.m |
| Data File | : V01241221A05.D | Operator | : VOA101:PID |
| Date Inj'd | : 12/21/2024 6:51 am | Instrument | : VOA 101 |
| Sample | : WG2012561-5,31,10,10 | Quant Date | : 12/21/2024 7:13 am |

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241220B\
Data File : V05241220B02.D
Acq On : 20 Dec 2024 9:54 am
Operator : VOA105:PID
Sample : WG2012422-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 10:16:35 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 5.655 | 96 | 432025 | 10.000 | ug/L | 0.00 |
| 59) Chlorobenzene-d5 | 9.148 | 117 | 336874 | 10.000 | ug/L | 0.00 |
| 79) 1,4-Dichlorobenzene-d4 | 11.920 | 152 | 194778 | 10.000 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 36) Dibromofluoromethane | 4.873 | 113 | 116012 | 10.421 | ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 104.21% | | | |
| 43) 1,2-Dichloroethane-d4 | 5.381 | 65 | 153231 | 10.441 | ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 104.41% | | | |
| 60) Toluene-d8 | 7.318 | 98 | 423409 | 10.027 | ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 100.27% | | | |
| 83) 4-Bromofluorobenzene | 10.676 | 95 | 167943 | 9.479 | ug/L | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 94.79% | | | |

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|---|---|---|---|---|---|---|
| 2) Dichlorodifluoromethane | 1.488 | 85 | 142481 | 10.014 | ug/L | 98 |
| 3) Chloromethane | 1.665 | 50 | 116746 | 5.921 | ug/L | 97 |
| 4) Vinyl chloride | 1.723 | 62 | 126467 | 7.549 | ug/L | 95 |
| 5) Bromomethane | 2.007 | 94 | 22045 | 6.761 | ug/L | 100 |
| 6) Chloroethane | 2.105 | 64 | 70933 | 8.695 | ug/L | 96 |
| 7) Trichlorofluoromethane | 2.232 | 101 | 181795 | 10.972 | ug/L | 100 |
| 10) 1,1-Dichloroethene | 2.691 | 96 | 85952 | 10.486 | ug/L | 81 |
| 11) Carbon disulfide | 2.721 | 76 | 278215 | 10.460 | ug/L | 100 |
| 12) Freon-113 | 2.721 | 101 | 96320 | 10.791 | ug/L # | 77 |
| 15) Methylene chloride | 3.229 | 84 | 103567 | 9.810 | ug/L # | 58 |
| 17) Acetone | 3.288 | 43 | 20185 | 6.755 | ug/L | 91 |
| 18) trans-1,2-Dichloroethene | 3.366 | 96 | 106222 | 10.509 | ug/L | 85 |
| 19) Methyl acetate | 3.396 | 43 | 51868 | 7.143 | ug/L # | 80 |
| 20) Methyl tert-butyl ether | 3.464 | 73 | 235120 | 10.846 | ug/L # | 85 |
| 23) 1,1-Dichloroethane | 3.934 | 63 | 222741 | 8.667 | ug/L | 97 |
| 28) cis-1,2-Dichloroethene | 4.432 | 96 | 116781 | 10.417 | ug/L | 87 |
| 30) Bromochloromethane | 4.628 | 128 | 52762 | 10.802 | ug/L # | 68 |
| 31) Cyclohexane | 4.609 | 56 | 247735 | 7.295 | ug/L # | 64 |
| 32) Chloroform | 4.697 | 83 | 198662 | 10.806 | ug/L | 96 |
| 34) Carbon tetrachloride | 4.814 | 117 | 167893 | 10.559 | ug/L | 99 |
| 37) 1,1,1-Trichloroethane | 4.873 | 97 | 185266 | 10.703 | ug/L | 94 |
| 39) 2-Butanone | 4.990 | 43 | 36341 | 7.851 | ug/L # | 64 |
| 41) Benzene | 5.234 | 78 | 427511 | 10.263 | ug/L # | 90 |
| 44) 1,2-Dichloroethane | 5.450 | 62 | 156194 | 9.451 | ug/L | 98 |

Quantitation Report    (QT Reviewed)

Data Path : K:\VOA105\2024\241220B\
Data File : V05241220B02.D
Acq On    : 20 Dec 2024   9:54 am
Operator  : VOA105:PID
Sample    : WG2012422-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc      : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Dec 20 10:16:35 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

Sub List     : 8260-NY_R2 - NYSOM01.2 + NYSTARS

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 47) Methyl cyclohexane | 5.802 | 83 | 184546 | 9.990 | ug/L # | 59 |
| 48) Trichloroethene | 5.821 | 95 | 112569 | 9.844 | ug/L | 94 |
| 51) 1,2-Dichloropropane | 6.359 | 63 | 119077 | 8.356 | ug/L # | 87 |
| 54) Bromodichloromethane | 6.438 | 83 | 146820 | 10.599 | ug/L | 97 |
| 58) cis-1,3-Dichloropropene | 7.122 | 75 | 159067 | 10.075 | ug/L # | 91 |
| 61) Toluene | 7.367 | 92 | 273246 | 10.185 | ug/L | 100 |
| 62) 4-Methyl-2-pentanone | 7.817 | 58 | 24598 | 7.055 | ug/L # | 84 |
| 63) Tetrachloroethene | 7.807 | 166 | 129048 | 10.977 | ug/L | 92 |
| 65) trans-1,3-Dichloropropene | 7.866 | 75 | 135874 | 10.402 | ug/L | 89 |
| 68) 1,1,2-Trichloroethane | 8.051 | 83 | 64301 | 10.368 | ug/L | 98 |
| 69) Chlorodibromomethane | 8.257 | 129 | 101681 | 10.399 | ug/L | 99 |
| 71) 1,2-Dibromoethane | 8.521 | 107 | 78041 | 10.179 | ug/L | 99 |
| 72) 2-Hexanone | 8.824 | 43 | 43412 | 6.823 | ug/L | 96 |
| 73) Chlorobenzene | 9.167 | 112 | 296202 | 10.195 | ug/L | 95 |
| 74) Ethylbenzene | 9.196 | 91 | 545268 | 10.204 | ug/L | 95 |
| 76) p/m Xylene | 9.383 | 106 | 422358 | 20.852 | ug/L | 89 |
| 77) o Xylene | 9.931 | 106 | 400557 | 20.671 | ug/L | 88 |
| 78) Styrene | 10.000 | 104 | 653006 | 20.858 | ug/L | 91 |
| 80) Bromoform | 10.029 | 173 | 59016 | 10.230 | ug/L | 98 |
| 82) Isopropylbenzene | 10.333 | 105 | 565867 | 9.336 | ug/L | 98 |
| 87) 1,1,2,2-Tetrachloroethane | 10.940 | 83 | 87400 | 9.185 | ug/L | 99 |
| 100) 1,3-Dichlorobenzene | 11.841 | 146 | 249337 | 9.690 | ug/L | 97 |
| 101) 1,4-Dichlorobenzene | 11.939 | 146 | 254033 | 9.882 | ug/L | 97 |
| 104) 1,2-Dichlorobenzene | 12.361 | 146 | 228022 | 9.829 | ug/L | 96 |
| 106) 1,2-Dibromo-3-chloropr... | 13.154 | 155 | 12600 | 8.412 | ug/L | 97 |
| 109) 1,2,4-Trichlorobenzene | 13.781 | 180 | 147521 | 10.070 | ug/L | 99 |
| 111) 1,2,3-Trichlorobenzene | 14.251 | 180 | 119806 | 9.694 | ug/L | 99 |

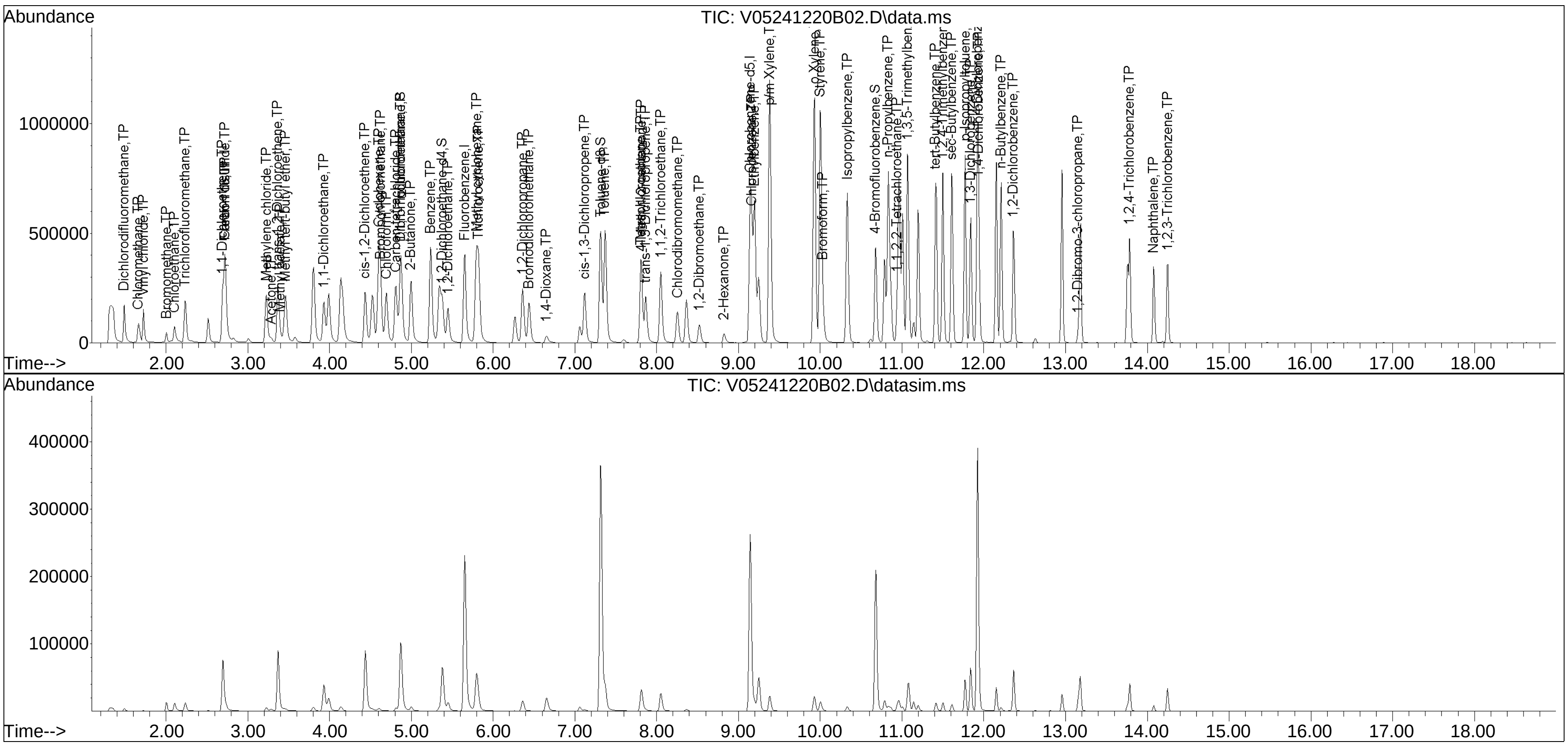
(#) = qualifier out of range (m) = manual integration (+) = signals summed

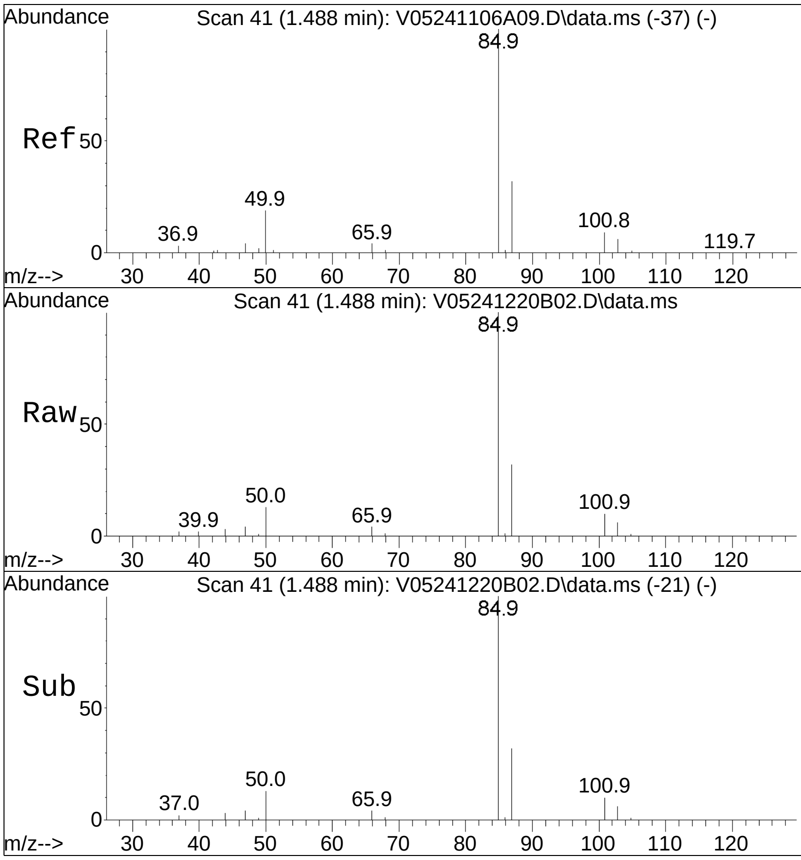
Quantitation Report    (QT Reviewed)

Data Path : K:\VOA105\2024\241220B\
Data File : V05241220B02.D
Acq On    : 20 Dec 2024   9:54 am
Operator  : VOA105:PID
Sample    : WG2012422-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc      : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Dec 20 10:16:35 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

Sub List     : 8260-NY_R2 - NYSOM01.2 + NYSTARS

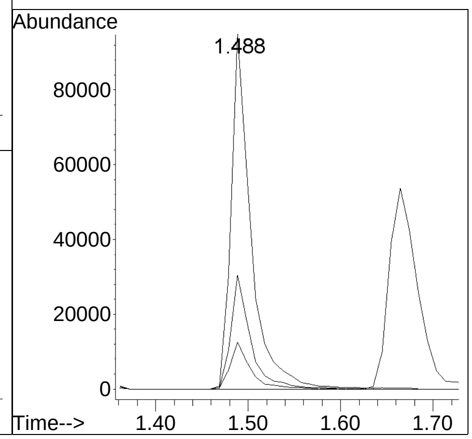


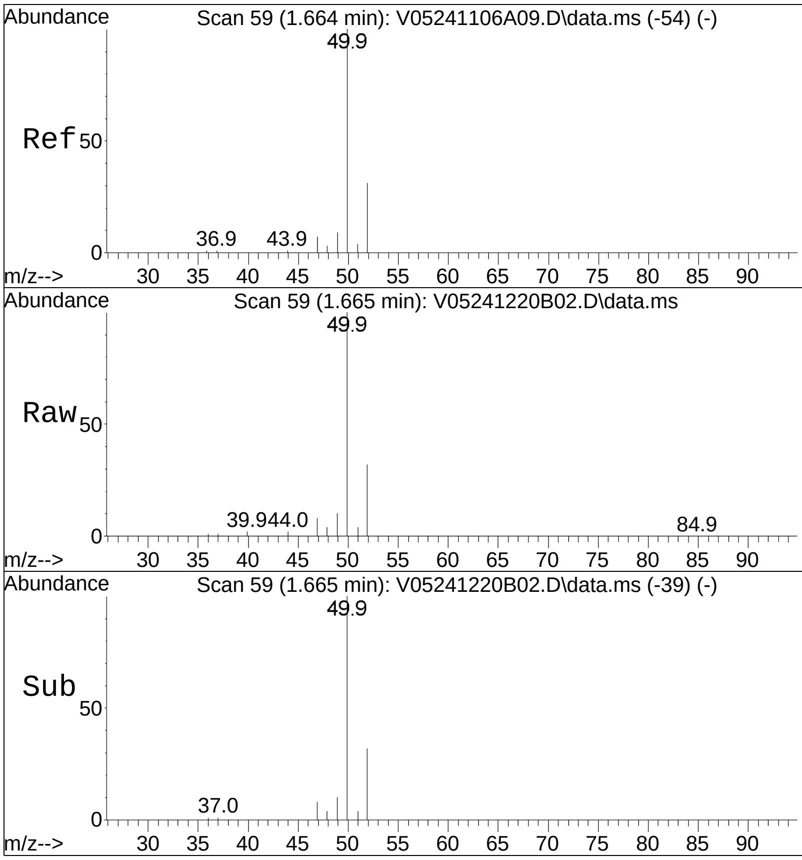



#2
Dichlorodifluoromethane
Concen: 10.01 ug/L
RT: 1.488 min Scan# 41
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 85 Resp: 142481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.8 | 20.9 | 43.5 |
| 50 | 13.4 | 6.8 | 14.0 |

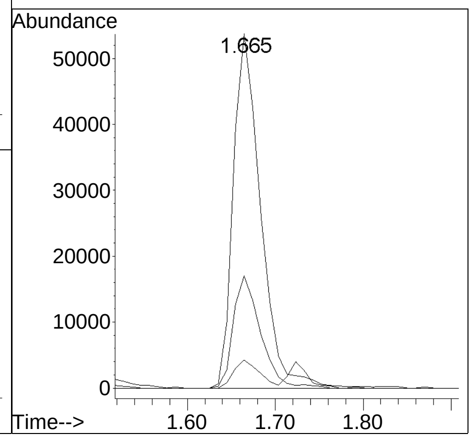


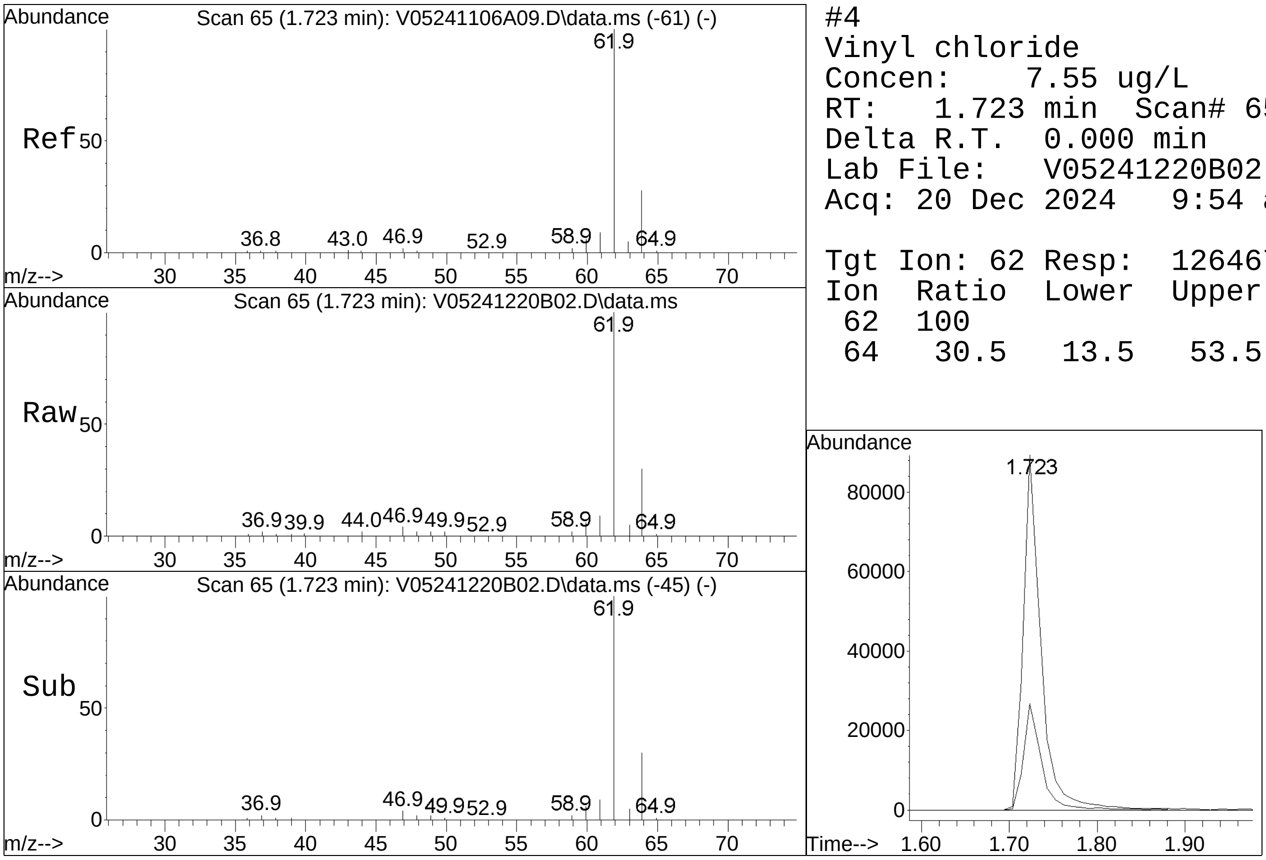



#3
Chloromethane
Concen: 5.92 ug/L
RT: 1.665 min Scan# 59
Delta R.T. 0.001 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 50 Resp: 116746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.3 | 12.6 | 52.6 |
| 47 | 7.5 | 0.0 | 30.1 |

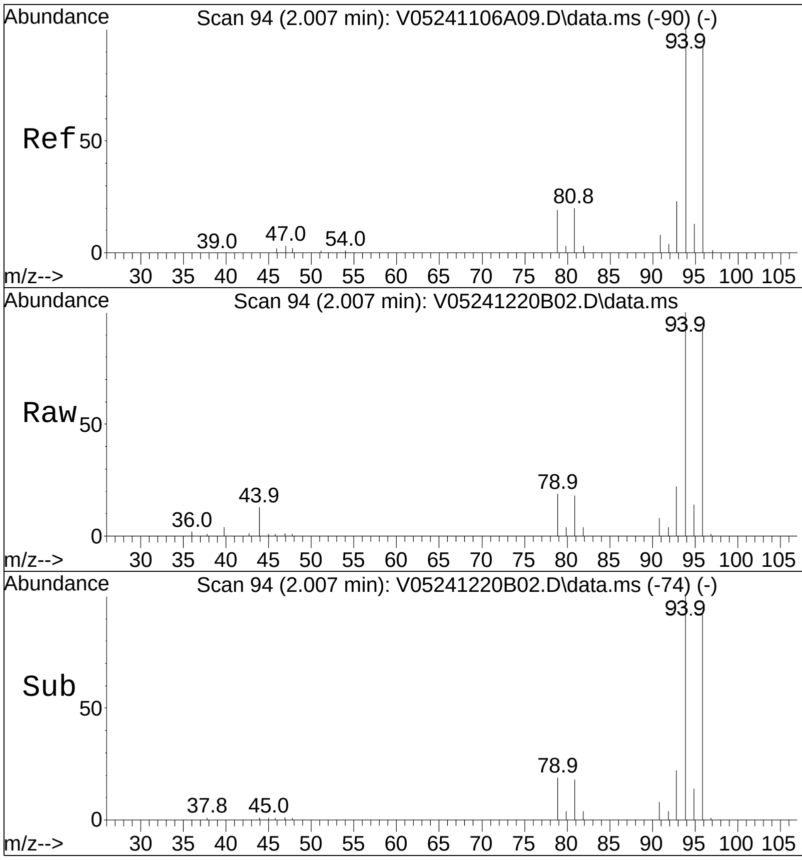





#4
Vinyl chloride
Concen: 7.55 ug/L
RT: 1.723 min Scan# 65
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 62 Resp: 126467

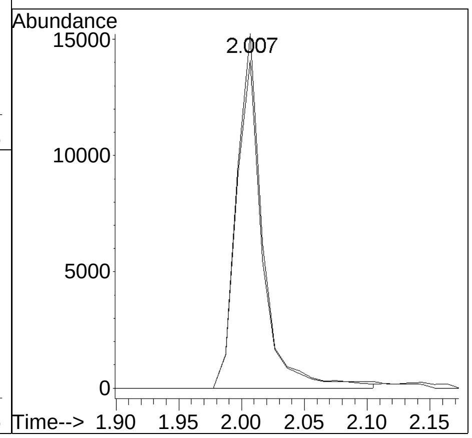
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.5 | 13.5 | 53.5 |

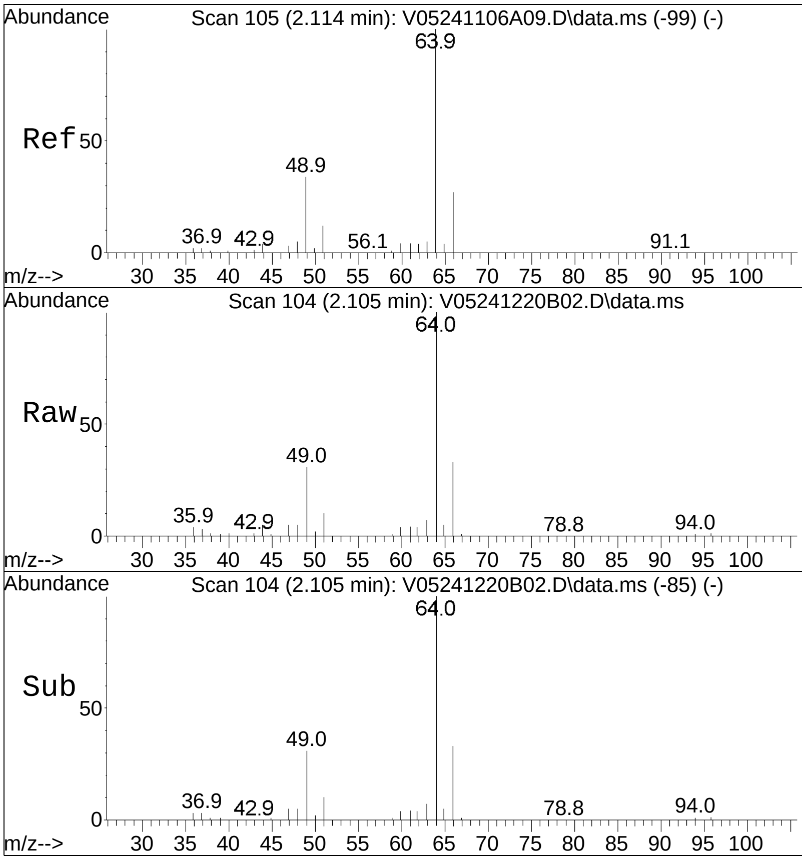



#5
Bromomethane
Concen: 6.76 ug/L
RT: 2.007 min Scan# 94
Delta R.T. -0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 94 Resp: 22045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.2 | 75.4 | 115.4 |

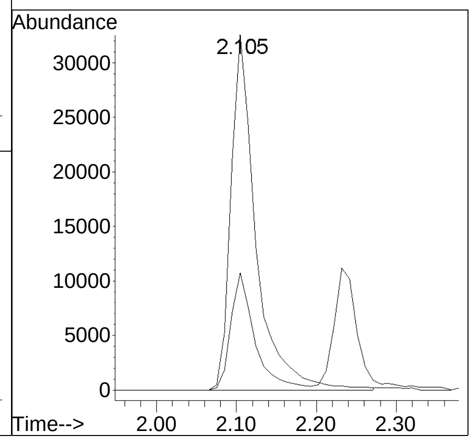


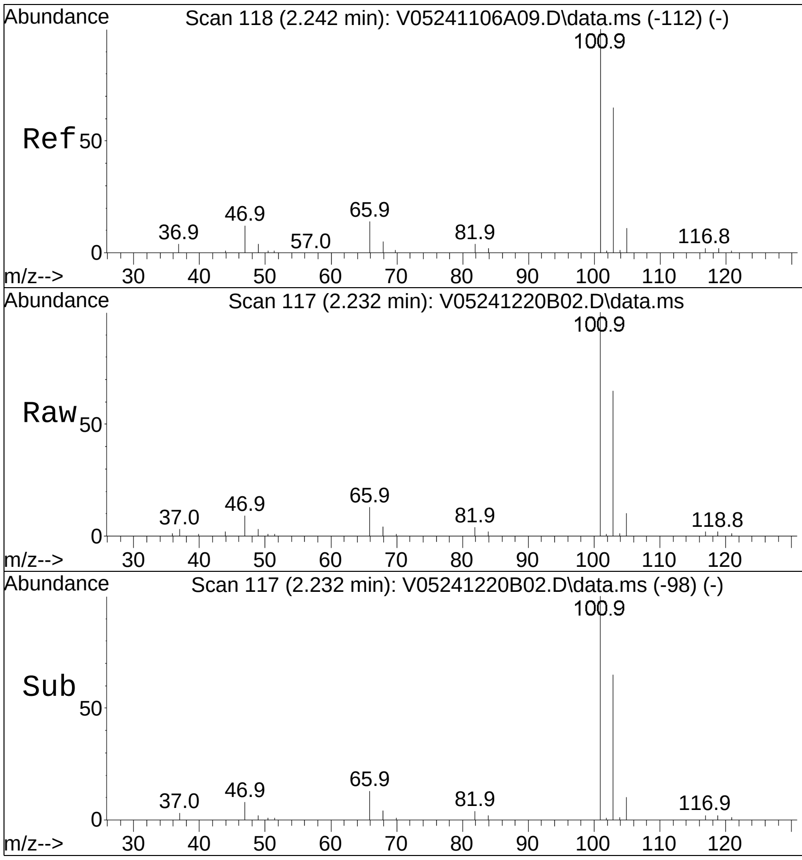



#6
Chloroethane
Concen: 8.70 ug/L
RT: 2.105 min Scan# 104
Delta R.T. -0.009 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 64 Resp: 70933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.7 | 13.8 | 53.8 |

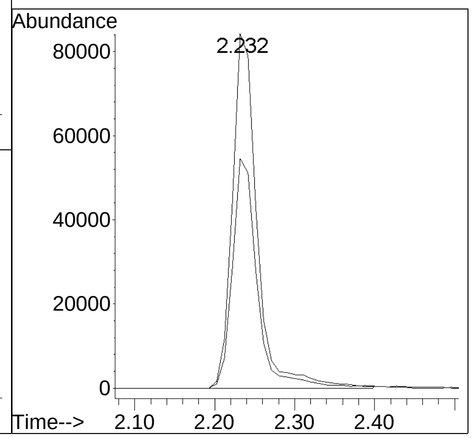


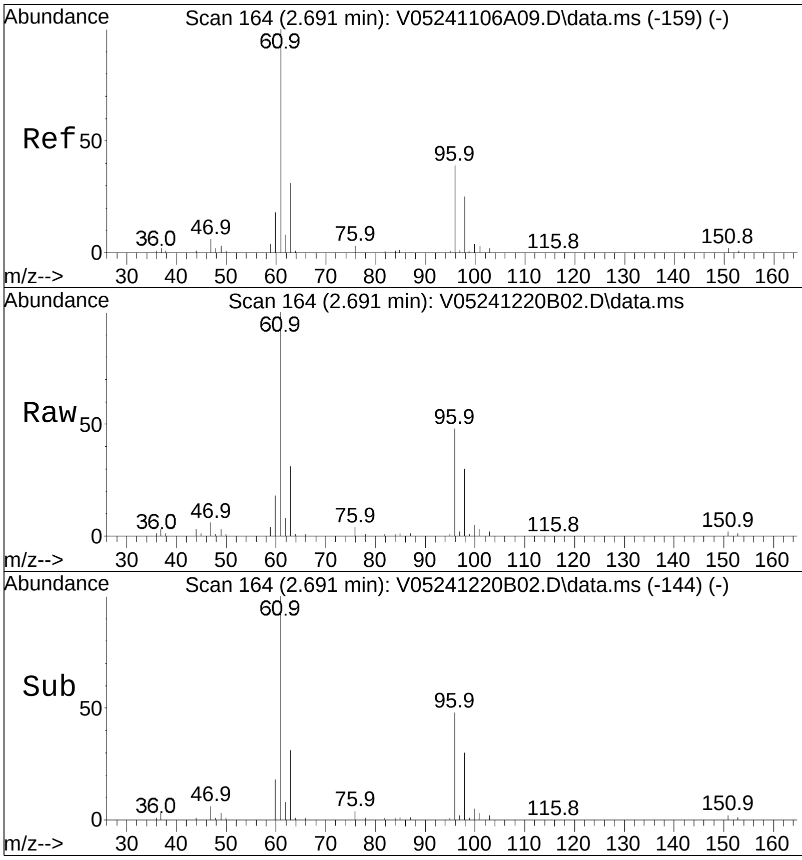



#7
Trichlorofluoromethane
Concen: 10.97 ug/L
RT: 2.232 min Scan# 117
Delta R.T. -0.010 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion:101 Resp: 181795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.9 | 51.8 | 77.6 |

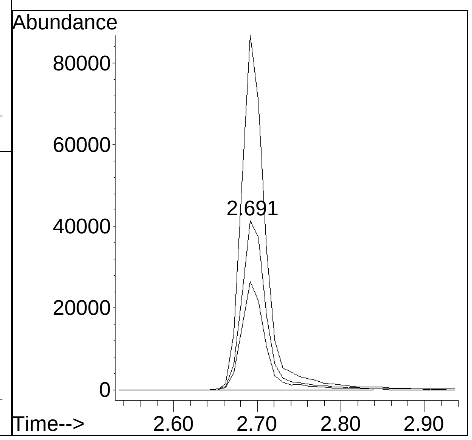


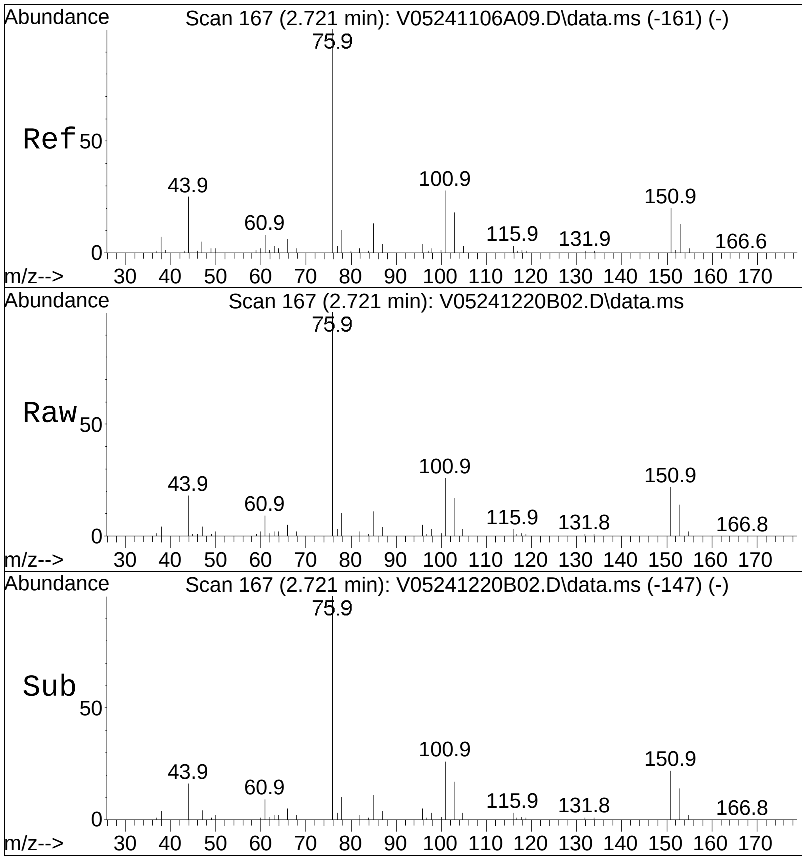



#10
1,1-Dichloroethene
Concen: 10.49 ug/L
RT: 2.691 min Scan# 164
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 96 Resp: 85952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 201.6 | 136.7 | 205.1 |
| 63 | 62.1 | 45.0 | 67.6 |

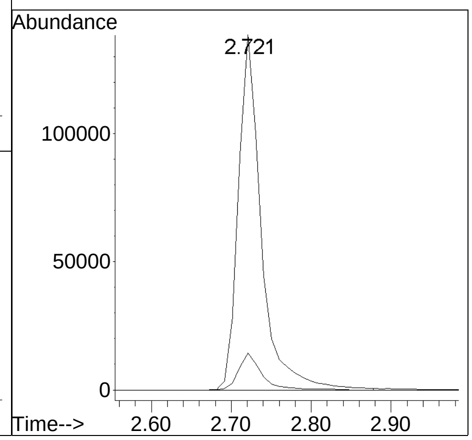


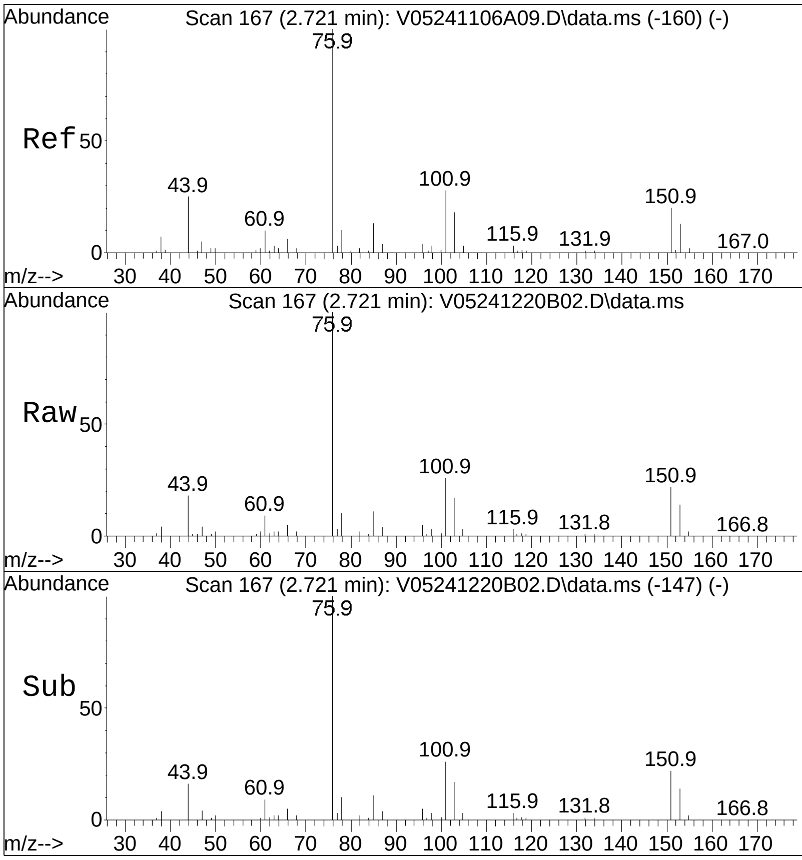



#11
Carbon disulfide
Concen: 10.46 ug/L
RT: 2.721 min Scan# 167
Delta R.T. -0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 76 Resp: 278215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.4 | 6.7 | 13.9 |

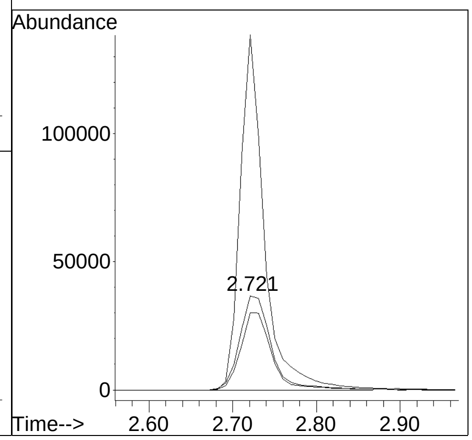


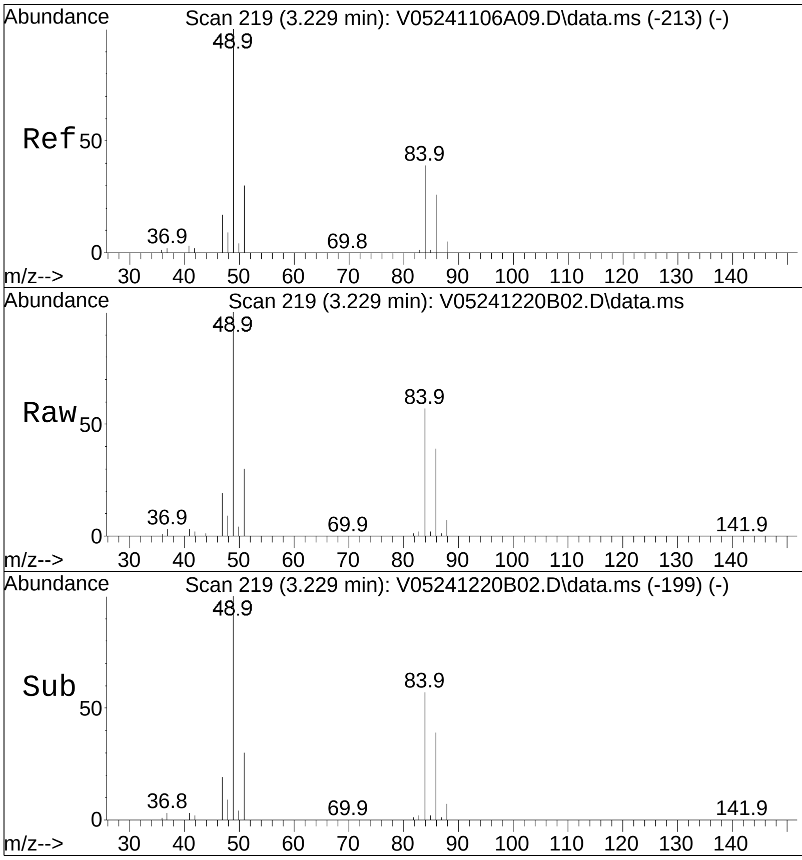



#12
Freon-113
Concen: 10.79 ug/L
RT: 2.721 min Scan# 167
Delta R.T. -0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion:101 Resp: 96320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 80.8 | 65.0 | 97.6 |
| 76 | 288.8 | 190.0 | 285.0# |

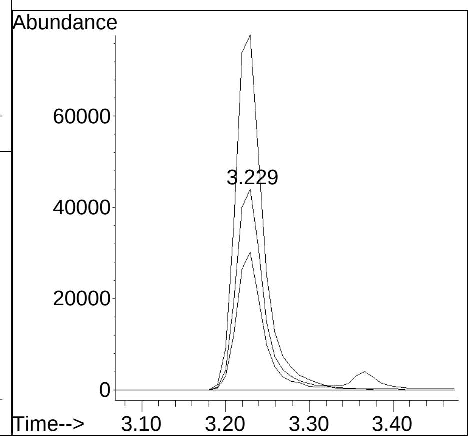


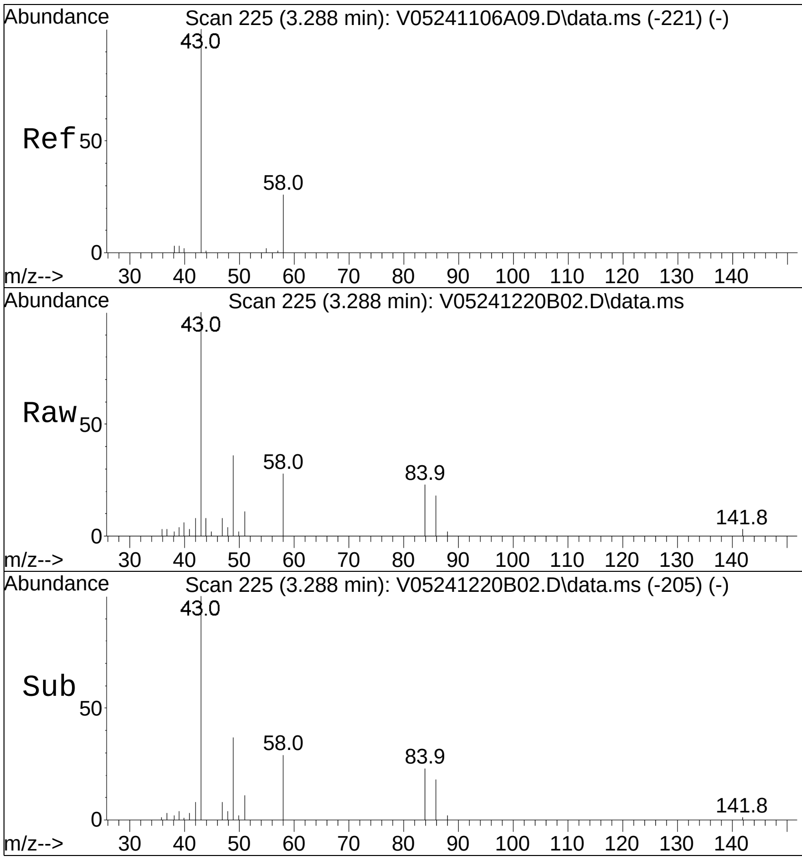



#15
Methylene chloride
Concen: 9.81 ug/L
RT: 3.229 min Scan# 219
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 84 Resp: 103567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 66.2 | 42.1 | 87.5 |
| 49 | 175.8 | 69.3 | 143.9# |

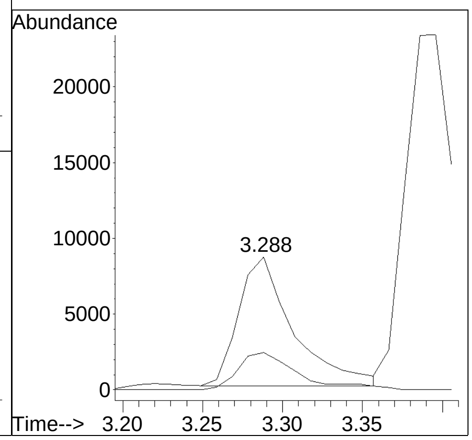


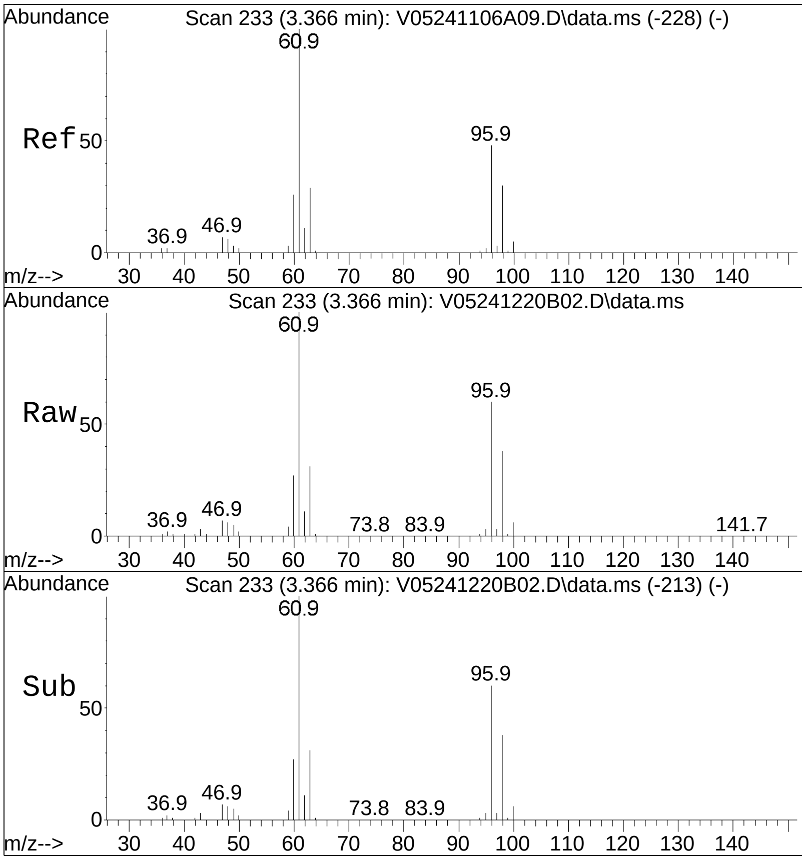



#17
Acetone
Concen: 6.76 ug/L
RT: 3.288 min Scan# 225
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 43 Resp: 20185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.3 | 22.0 | 33.0 |

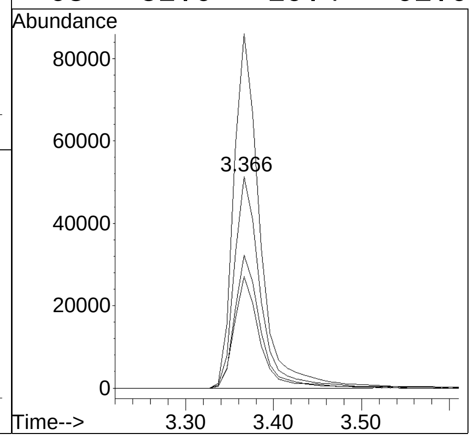


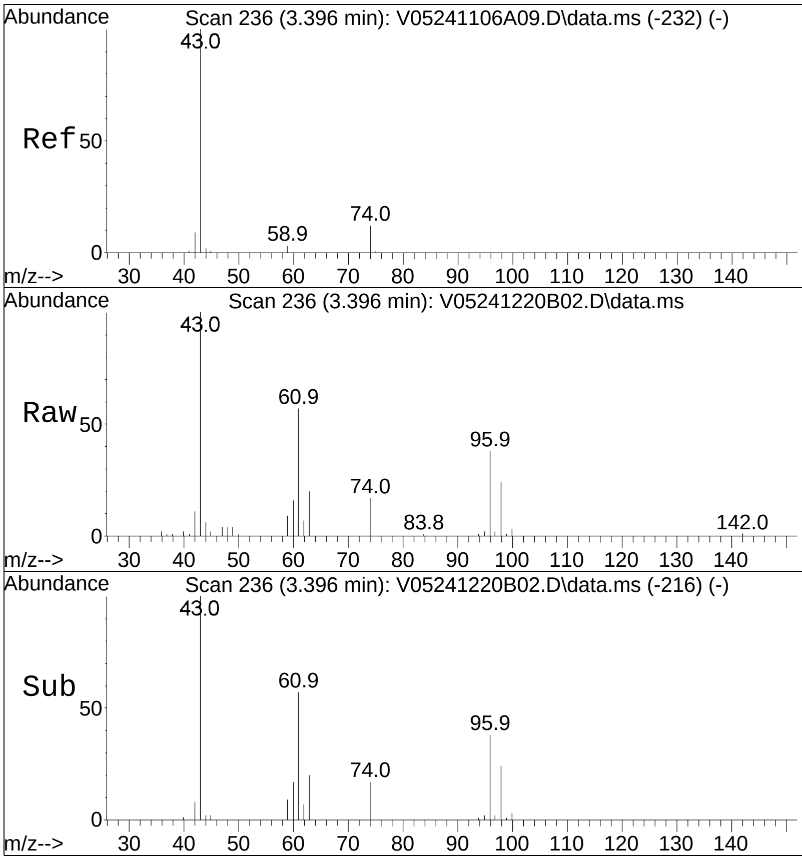



#18
trans-1,2-Dichloroethene
Concen: 10.51 ug/L
RT: 3.366 min Scan# 233
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 96 Resp: 106222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 168.6 | 91.7 | 190.5 |
| 98 | 62.4 | 41.1 | 85.5 |
| 63 | 52.0 | 29.4 | 61.0 |

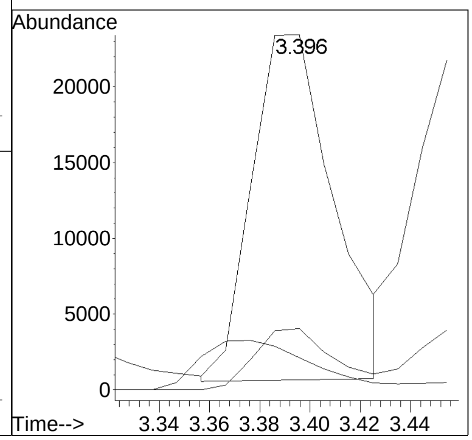


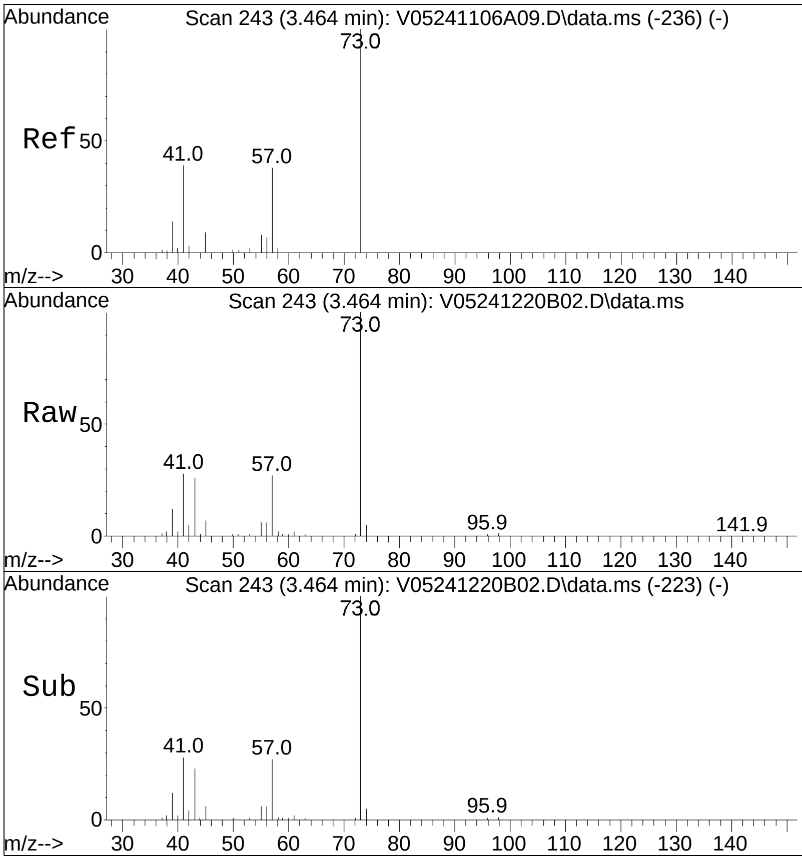



#19
Methyl acetate
Concen: 7.14 ug/L
RT: 3.396 min Scan# 236
Delta R.T. -0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 43 Resp: 51868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 17.3 | 23.1 | 34.7# |
| 59 | 19.6 | 23.9 | 35.9# |

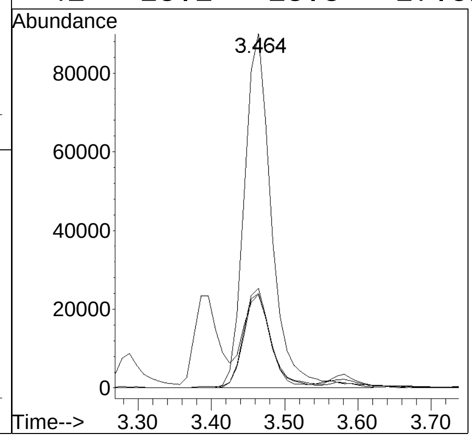


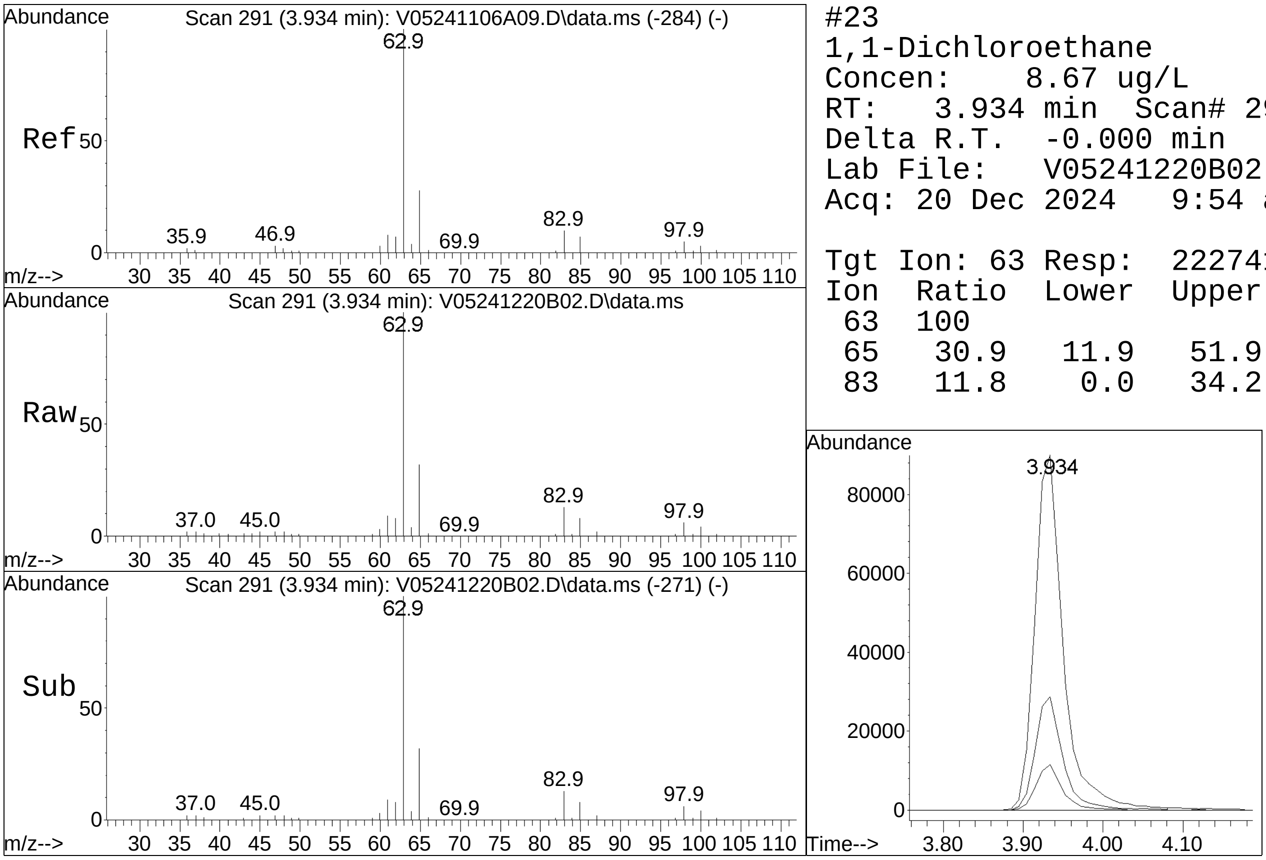



#20
Methyl tert-butyl ether
Concen: 10.85 ug/L
RT: 3.464 min Scan# 243
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 73 Resp: 235120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 26.3 | 11.8 | 24.6# |
| 43 | 25.5 | 13.5 | 27.9 |
| 41 | 28.1 | 13.3 | 27.5# |

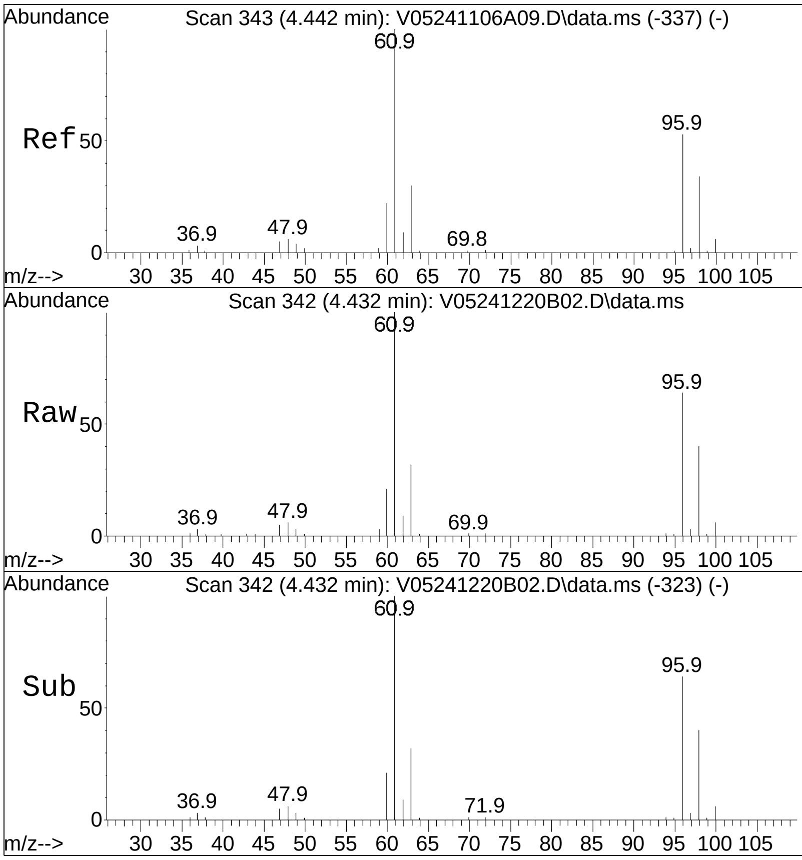





#23
1,1-Dichloroethane
Concen: 8.67 ug/L
RT: 3.934 min Scan# 291
Delta R.T. -0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 63 Resp: 222741

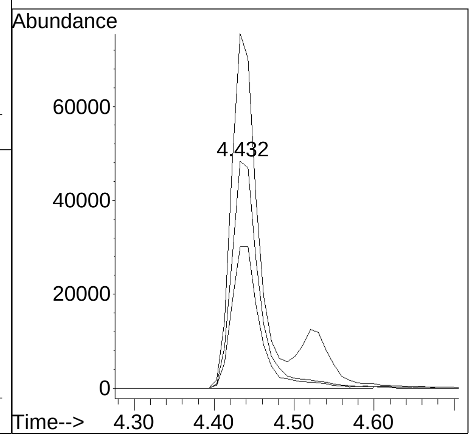
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.9 | 11.9 | 51.9 |
| 83 | 11.8 | 0.0 | 34.2 |

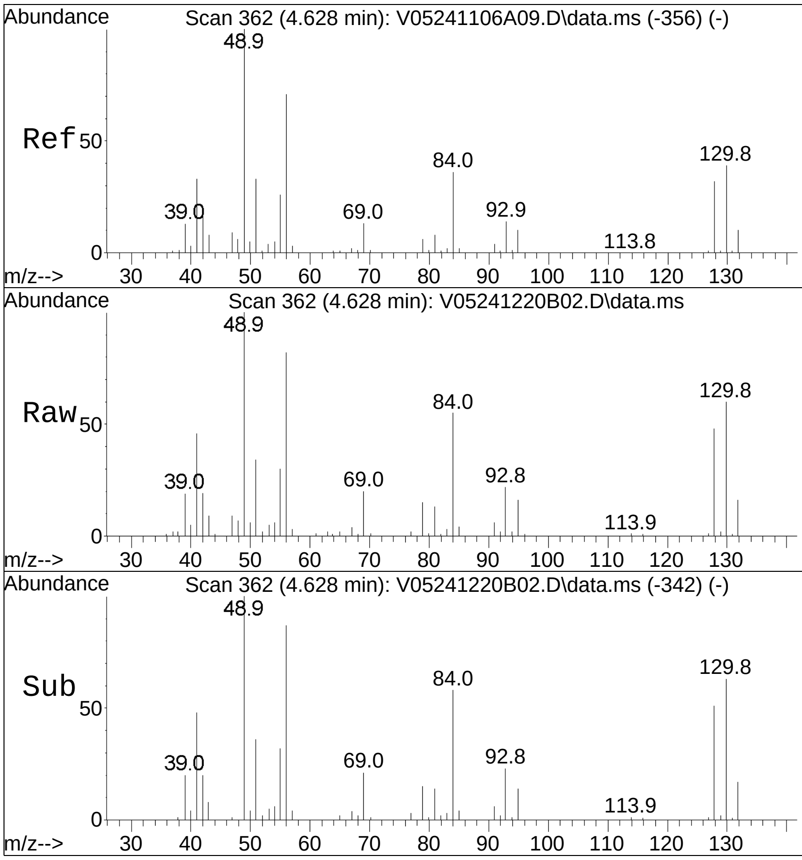



#28
cis-1,2-Dichloroethene
Concen: 10.42 ug/L
RT: 4.432 min Scan# 342
Delta R.T. -0.010 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 96 Resp: 116781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 146.9 | 100.5 | 150.7 |
| 98 | 64.4 | 49.8 | 74.8 |

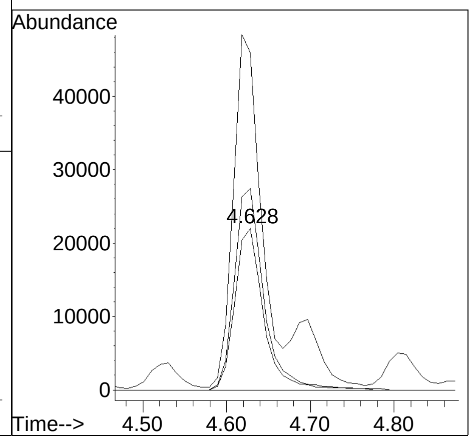


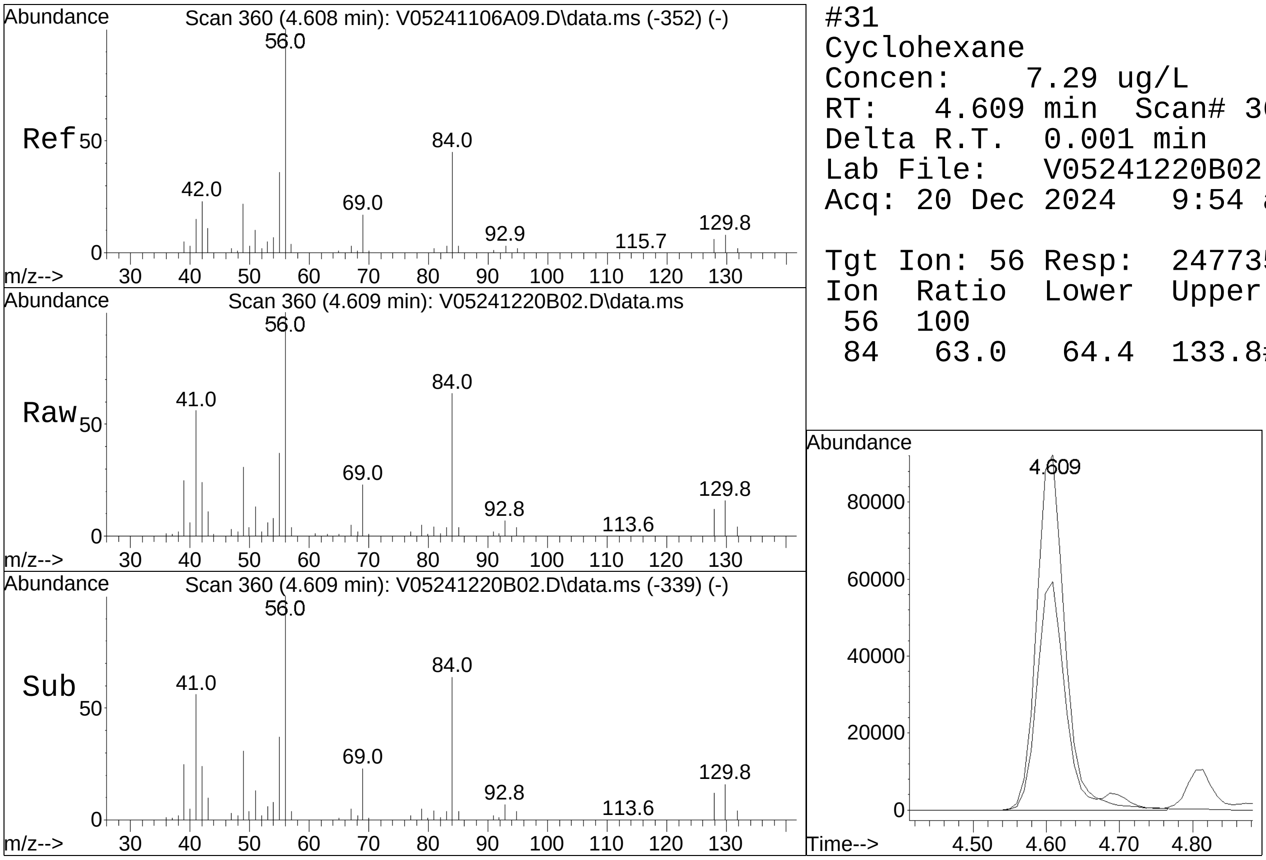


#30
Bromochloromethane
Concen: 10.80 ug/L
RT: 4.628 min Scan# 362
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion:128 Resp: 52762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 49 | 207.0 | 109.0 | 163.4# |
| 130 | 127.9 | 105.6 | 158.4 |

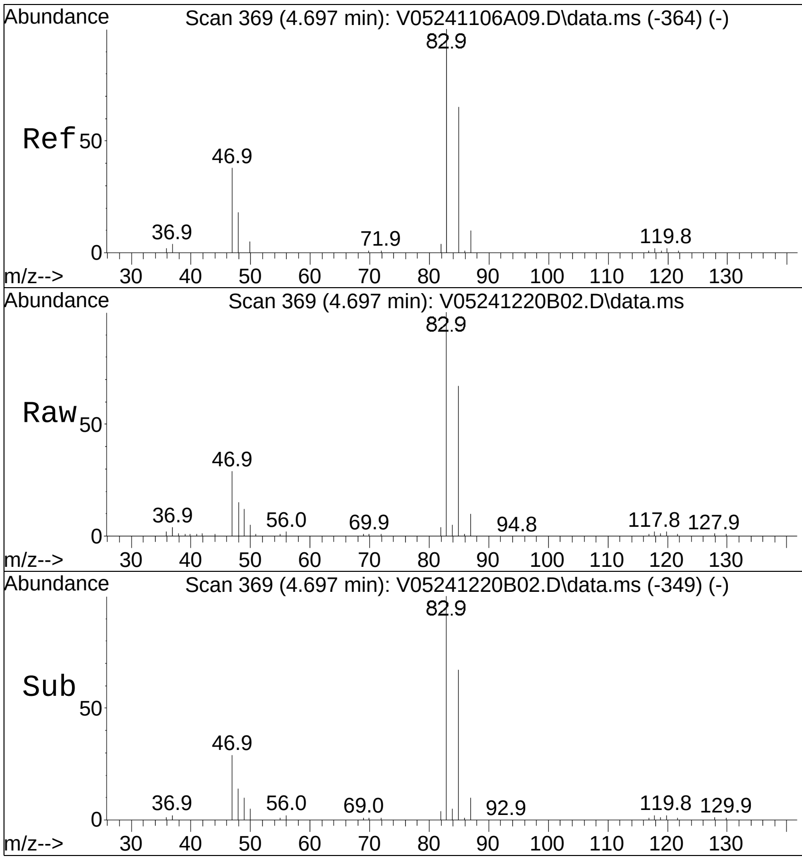





#31
Cyclohexane
Concen: 7.29 ug/L
RT: 4.609 min Scan# 360
Delta R.T. 0.001 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 56 Resp: 247735

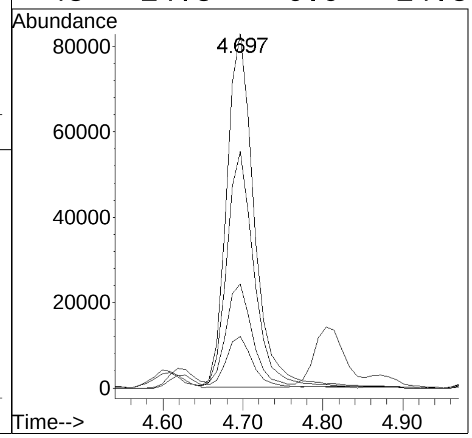
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 84 | 63.0 | 64.4 | 133.8# |

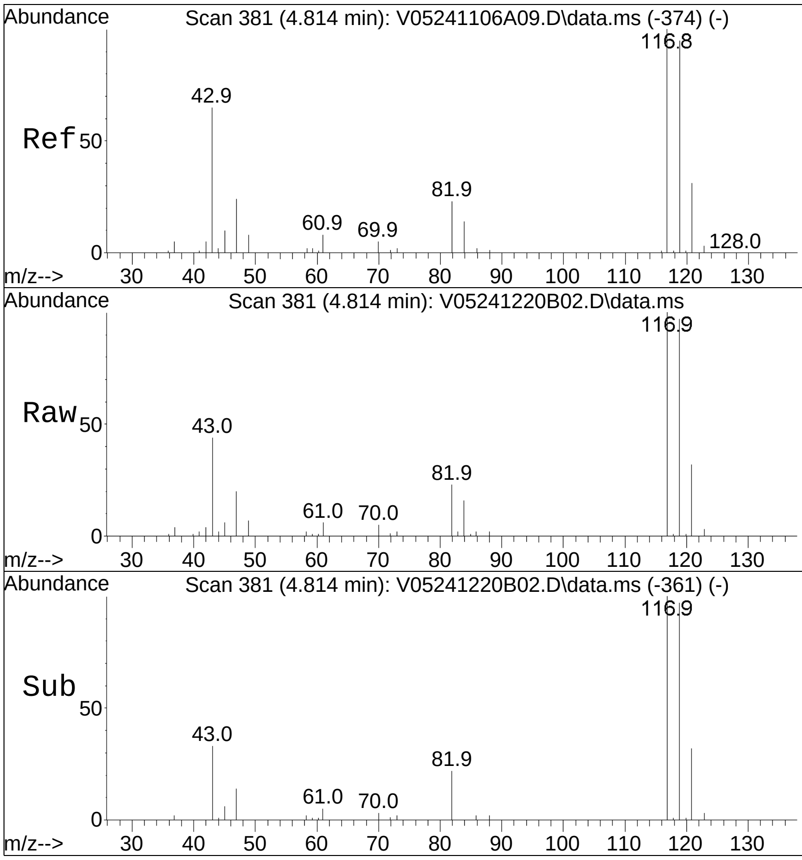



#32
Chloroform
Concen: 10.81 ug/L
RT: 4.697 min Scan# 369
Delta R.T. -0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 83 Resp: 198662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.5 | 42.8 | 89.0 |
| 47 | 26.3 | 13.7 | 28.4 |
| 48 | 14.3 | 6.9 | 14.3 |

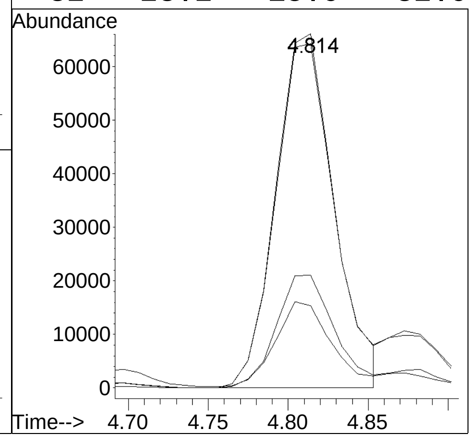


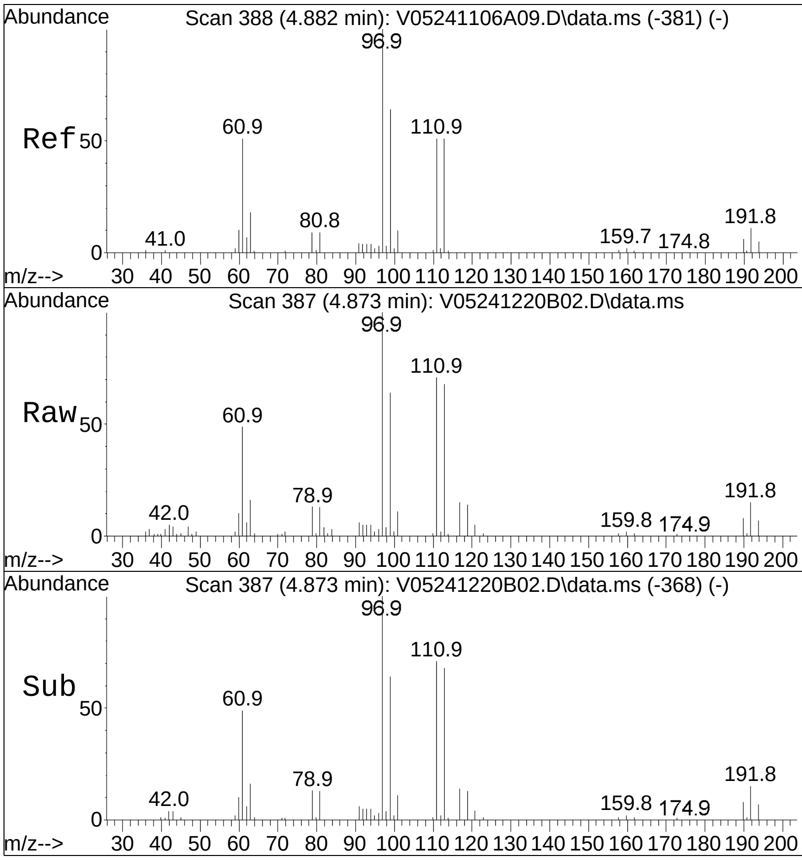



#34
Carbon tetrachloride
Concen: 10.56 ug/L
RT: 4.814 min Scan# 381
Delta R.T. -0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion:117 Resp: 167893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.3 | 63.6 | 132.2 |
| 121 | 31.9 | 19.8 | 41.0 |
| 82 | 23.2 | 15.9 | 32.9 |

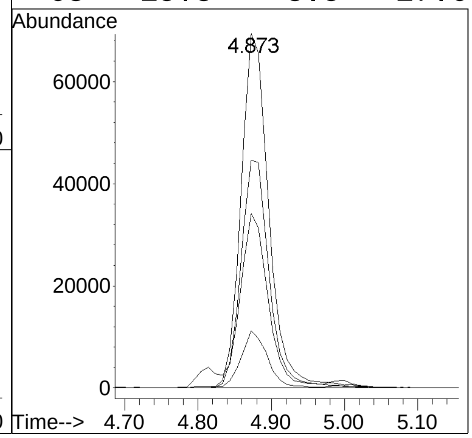


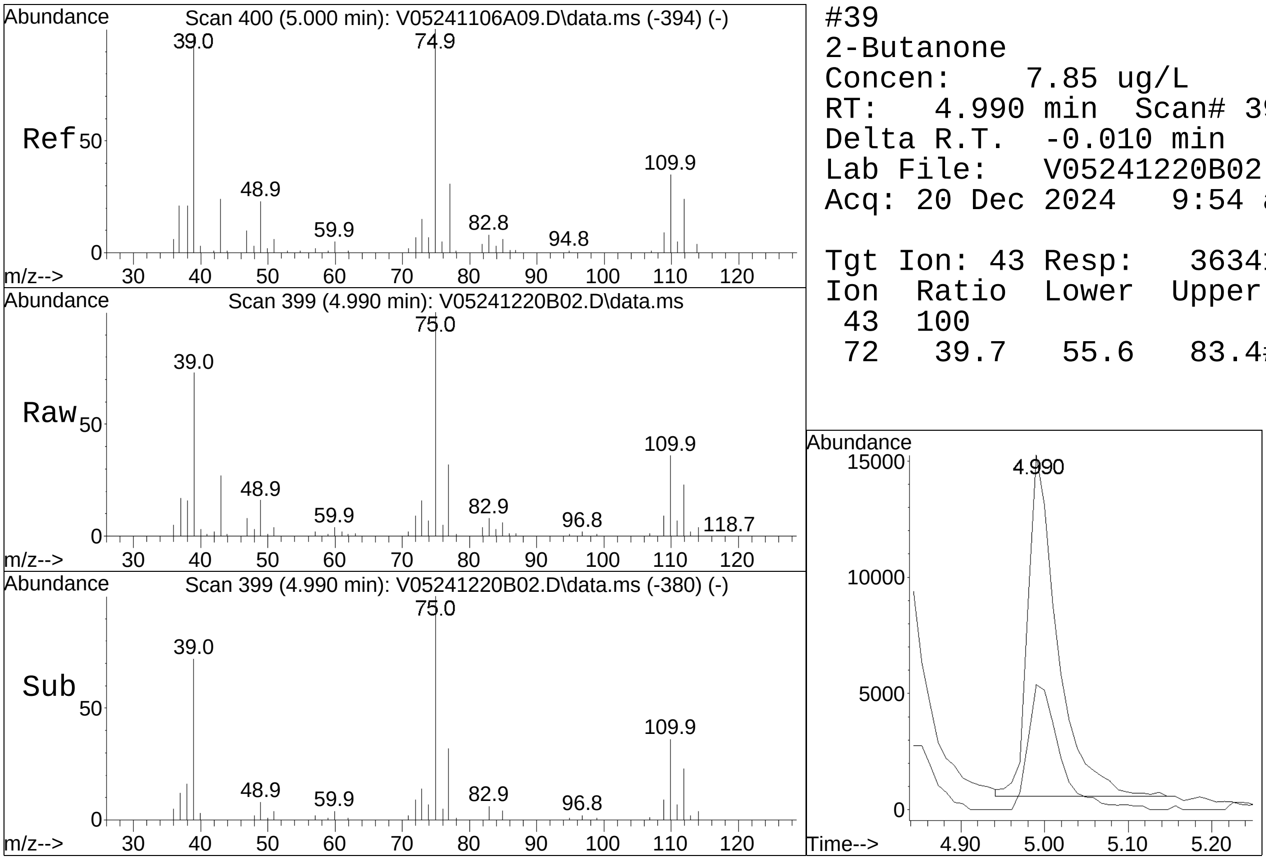



#37
1,1,1-Trichloroethane
Concen: 10.70 ug/L
RT: 4.873 min Scan# 387
Delta R.T. -0.009 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 97 Resp: 185266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.2 | 41.7 | 86.5 |
| 61 | 48.0 | 26.1 | 54.3 |
| 63 | 15.3 | 8.5 | 17.6 |

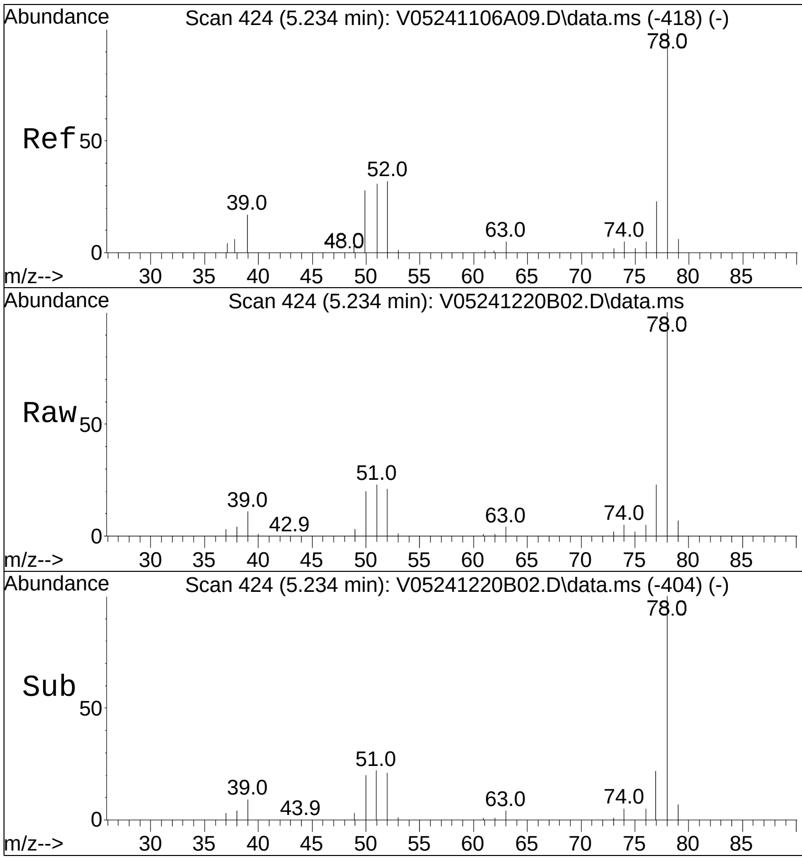





#39
2-Butanone
Concen: 7.85 ug/L
RT: 4.990 min Scan# 399
Delta R.T. -0.010 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 43 Resp: 36341

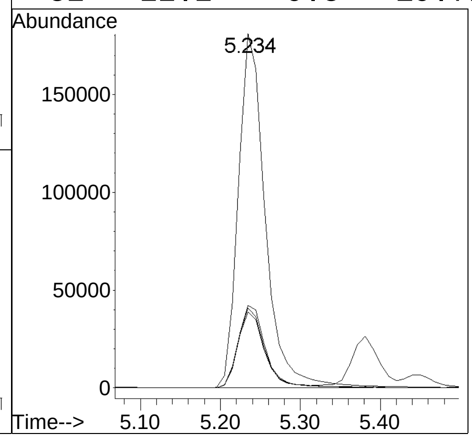
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 39.7 | 55.6 | 83.4# |



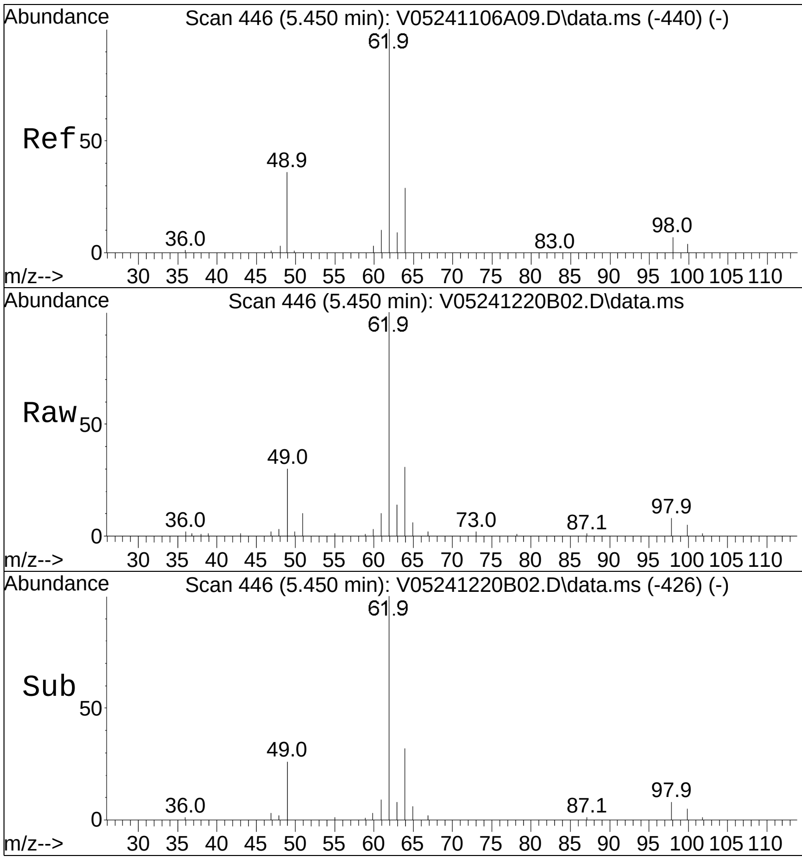

#41
Benzene
Concen: 10.26 ug/L
RT: 5.234 min Scan# 424
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 78 Resp: 427511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.8 | 15.2 | 31.6 |
| 51 | 22.2 | 10.5 | 21.7# |
| 52 | 22.2 | 9.5 | 19.7# |



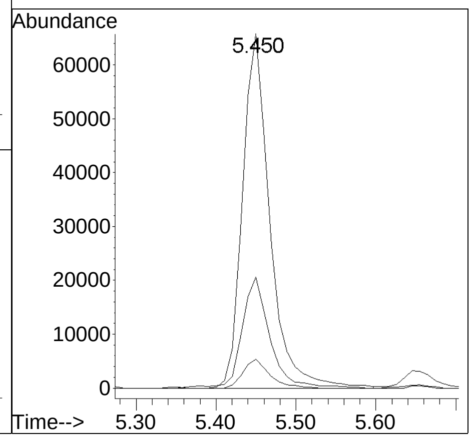

V05241220B02.D V105_241106A_8260.m Sun Dec 22 14:44:23 2024 Page 26

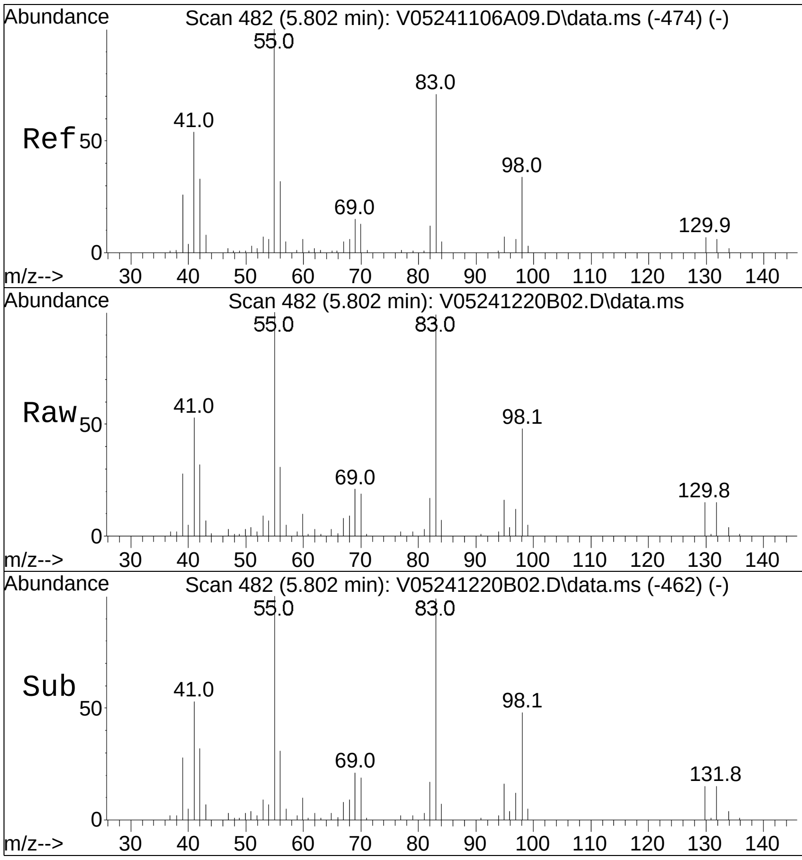



#44
1,2-Dichloroethane
Concen: 9.45 ug/L
RT: 5.450 min Scan# 446
Delta R.T. -0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 62 Resp: 156194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 13.2 | 53.2 |
| 98 | 7.9 | 0.0 | 27.8 |

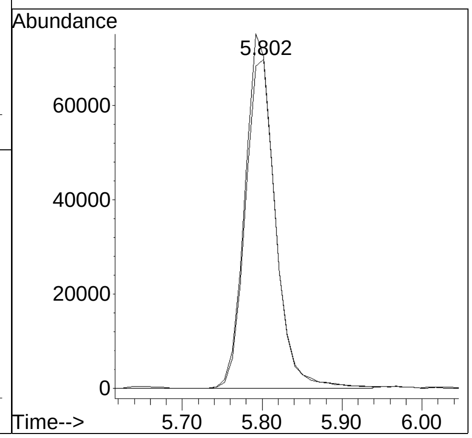


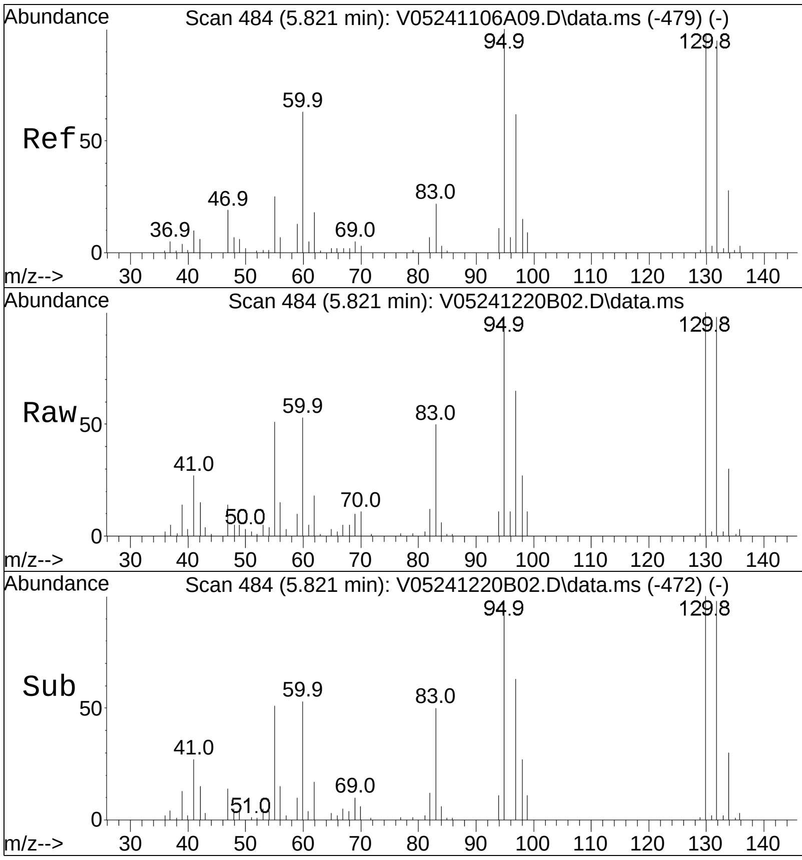



#47
Methyl cyclohexane
Concen: 9.99 ug/L
RT: 5.802 min Scan# 482
Delta R.T. -0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 83 Resp: 184546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 105.9 | 57.3 | 85.9# |

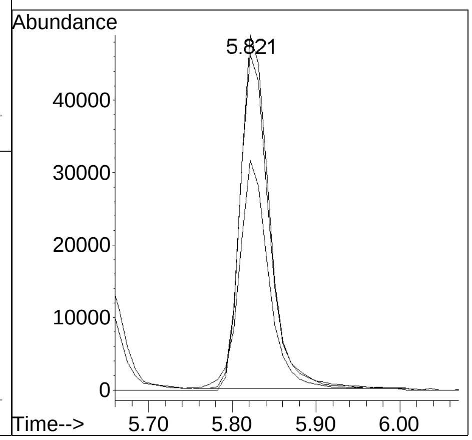


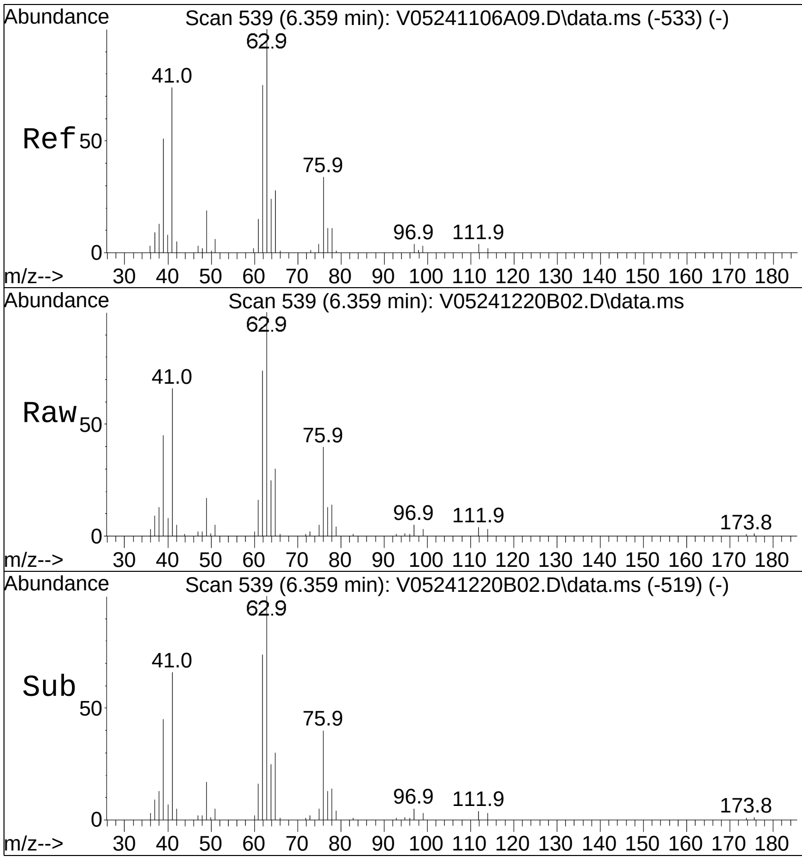



#48
Trichloroethene
Concen: 9.84 ug/L
RT: 5.821 min Scan# 484
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 95 Resp: 112569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 97 | 67.8 | 56.1 | 84.1 |
| 130 | 106.0 | 77.7 | 116.5 |

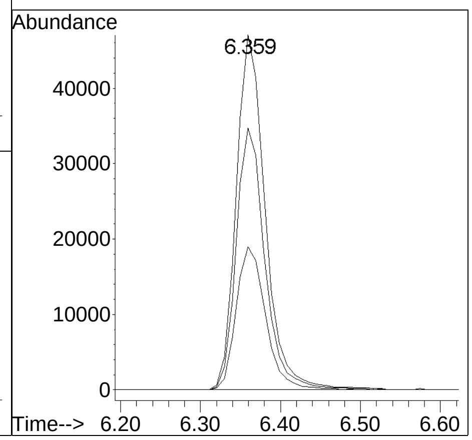


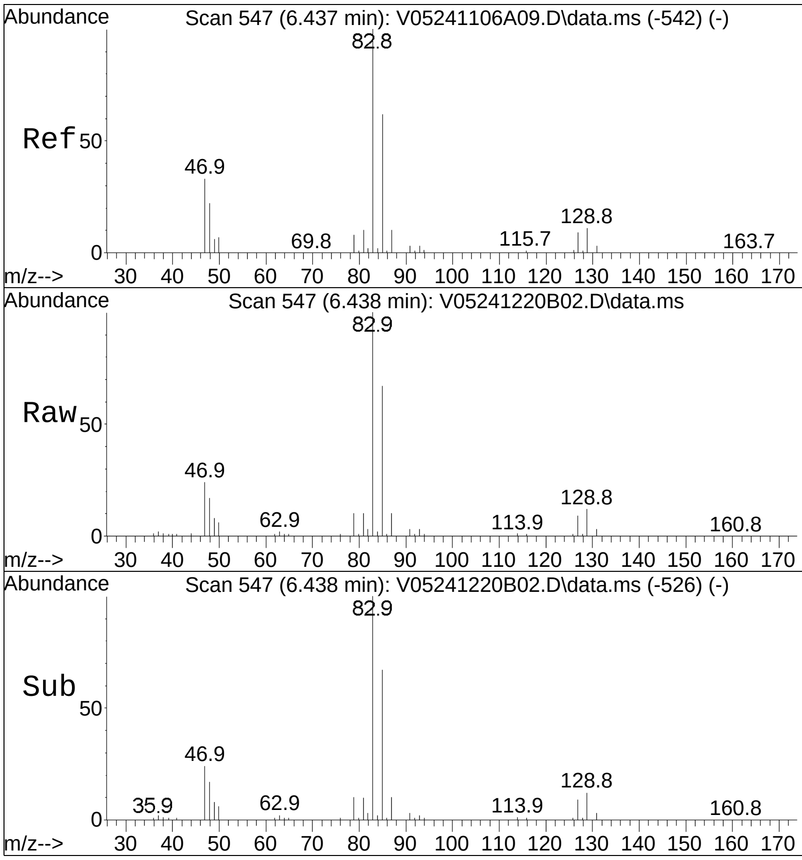



#51
1,2-Dichloropropane
Concen: 8.36 ug/L
RT: 6.359 min Scan# 539
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 63 Resp: 119077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 62 | 73.2 | 57.0 | 85.4 |
| 76 | 41.1 | 48.4 | 72.6# |

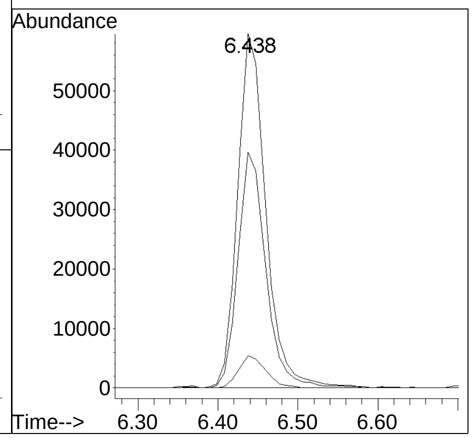


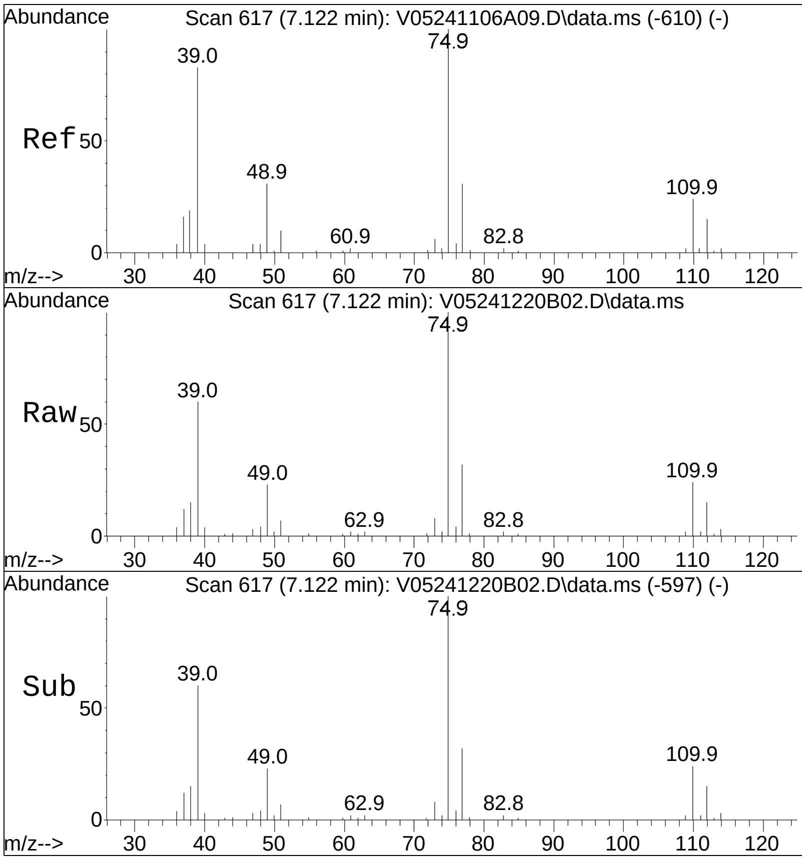



#54
Bromodichloromethane
Concen: 10.60 ug/L
RT: 6.438 min Scan# 547
Delta R.T. 0.001 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 83 Resp: 146820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.9 | 51.0 | 76.6 |
| 127 | 8.9 | 6.7 | 10.1 |

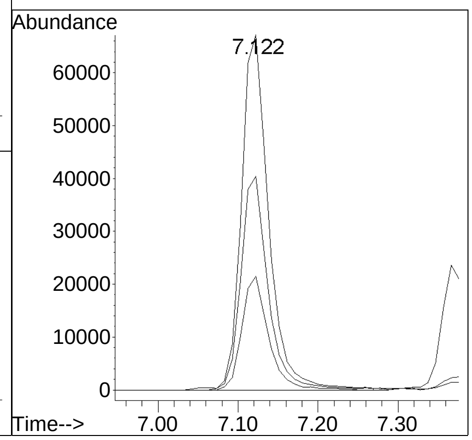


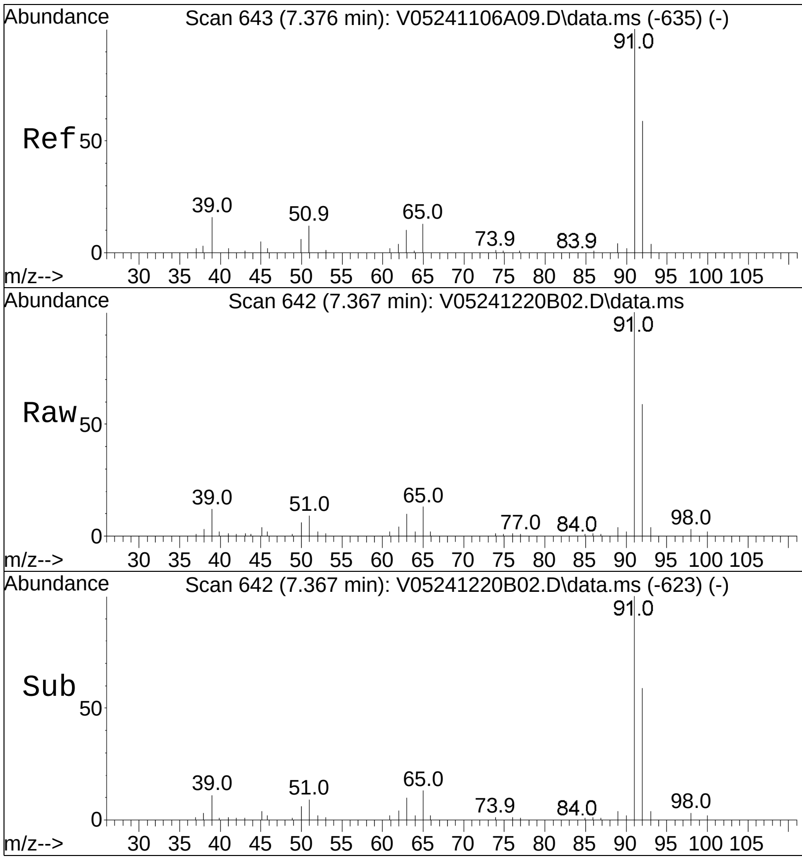



#58
cis-1,3-Dichloropropene
Concen: 10.08 ug/L
RT: 7.122 min Scan# 617
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 75 Resp: 159067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 25.5 | 38.3 |
| 39 | 60.7 | 40.4 | 60.6# |

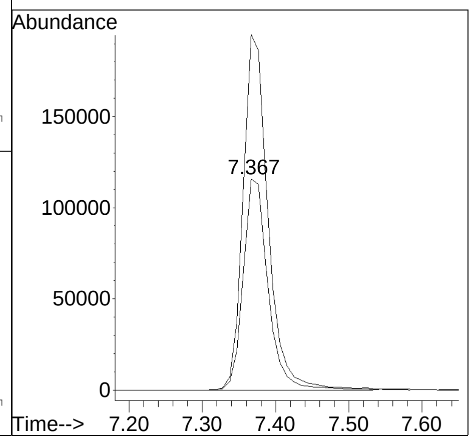


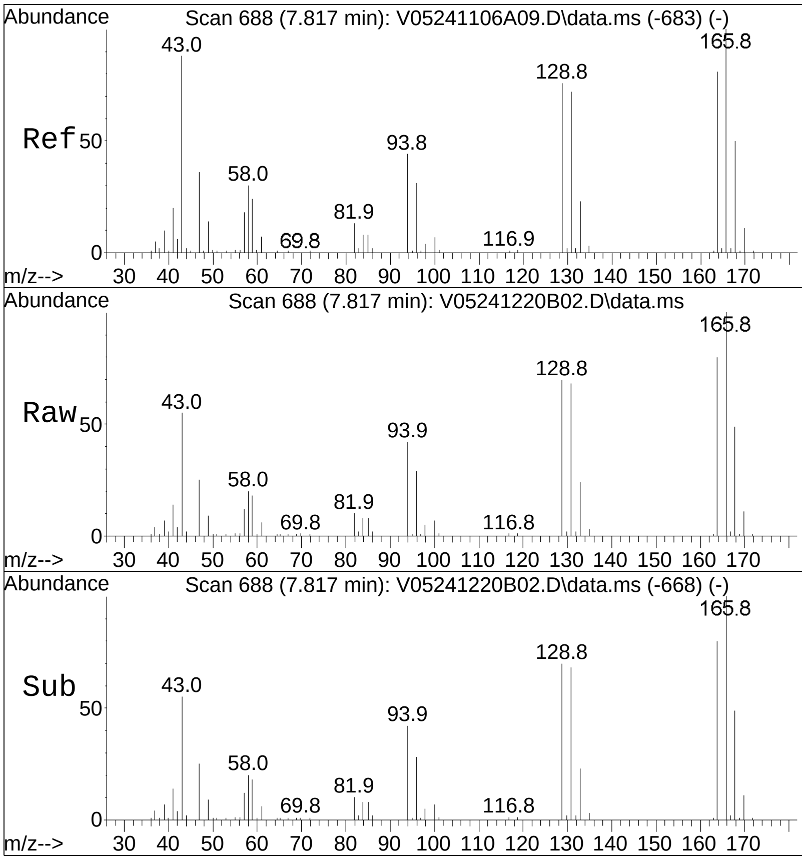



#61
Toluene
Concen:   10.18 ug/L
RT:   7.367 min  Scan# 642
Delta R.T.  -0.009 min
Lab File:   V05241220B02.D
Acq: 20 Dec 2024   9:54 am

Tgt Ion: 92 Resp:  273246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 168.9 | 135.2 | 202.8 |

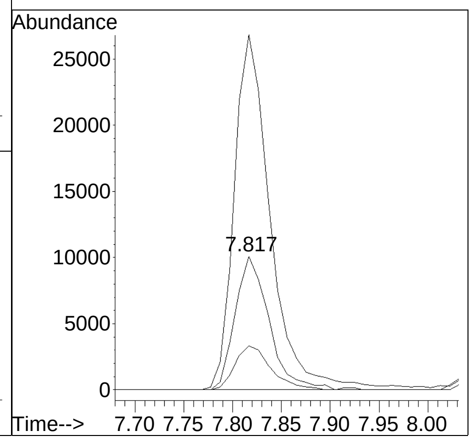


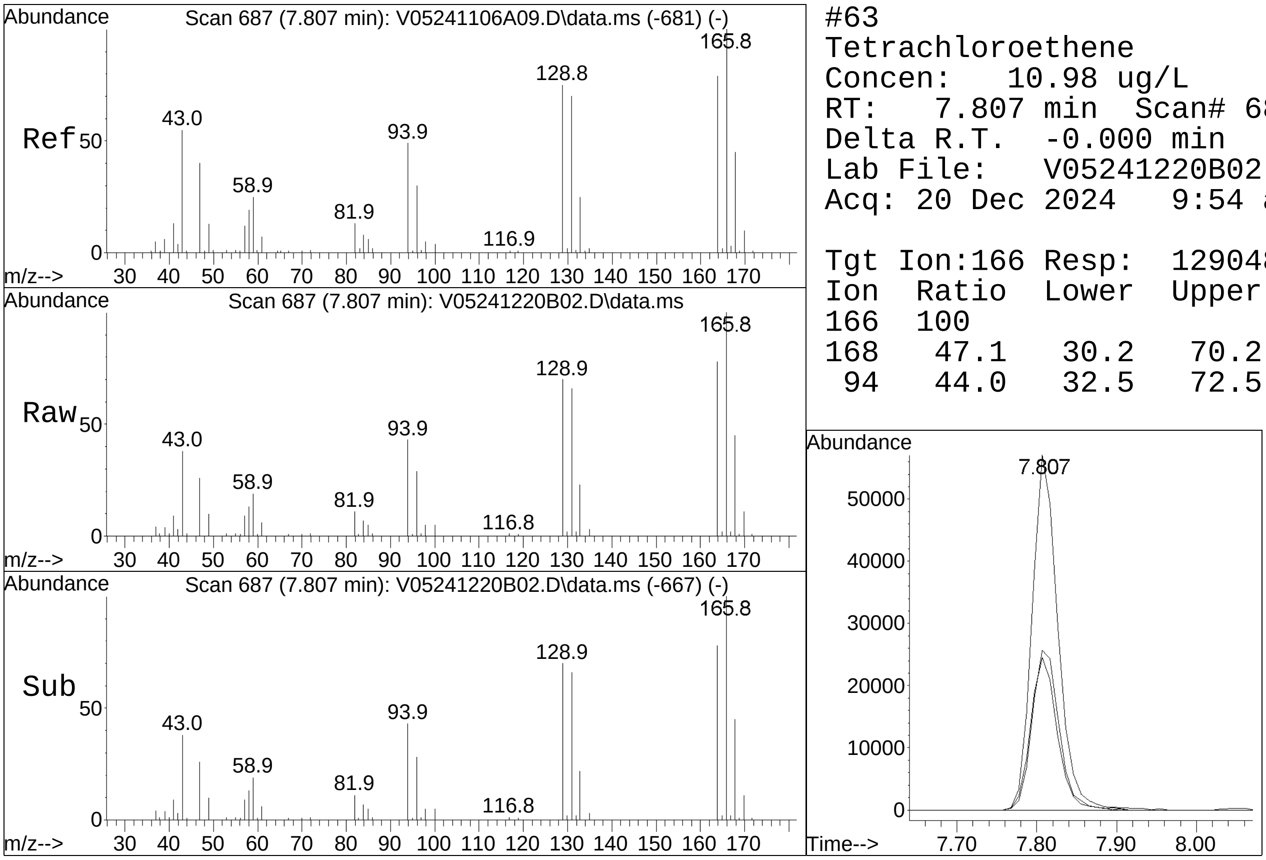



#62
4-Methyl-2-pentanone
Concen: 7.05 ug/L
RT: 7.817 min Scan# 688
Delta R.T. -0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 58 Resp: 24598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 100 | 34.9 | 38.9 | 58.3# |
| 43 | 282.6 | 204.2 | 306.2 |

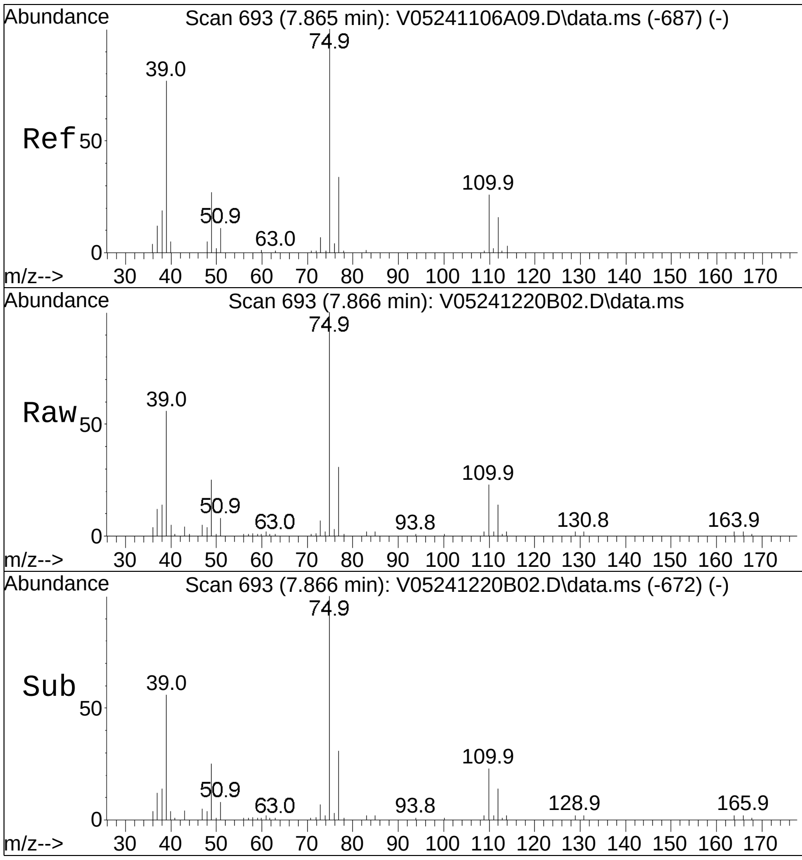




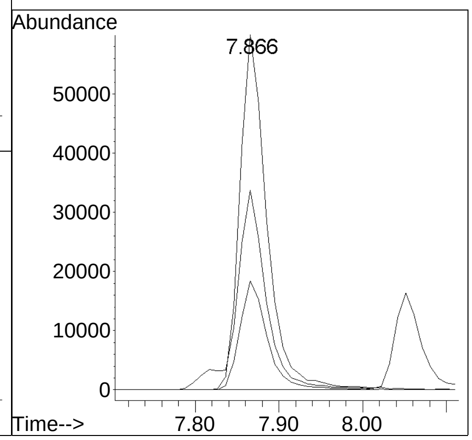

#63
Tetrachloroethene
Concen: 10.98 ug/L
RT: 7.807 min Scan# 687
Delta R.T. -0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

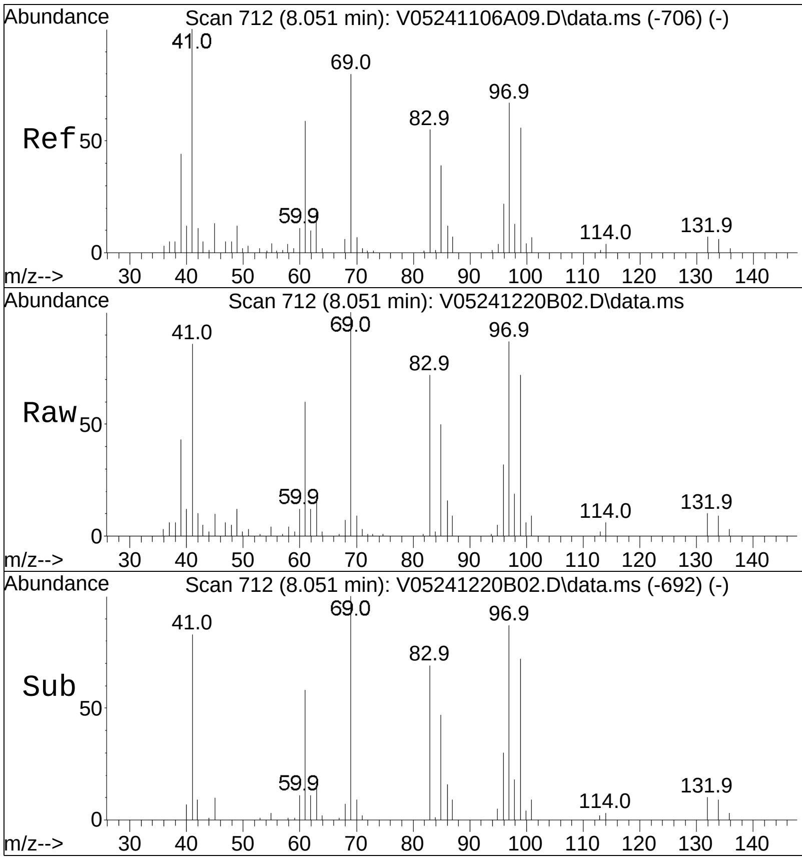
Tgt Ion:166 Resp: 129048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 168 | 47.1 | 30.2 | 70.2 |
| 94 | 44.0 | 32.5 | 72.5 |




```
#65
trans-1,3-Dichloropropene
Concen:   10.40 ug/L
RT:   7.866 min  Scan# 693
Delta R.T.  0.001 min
Lab File:   V05241220B02.D
Acq: 20 Dec 2024   9:54 am

Tgt Ion: 75 Resp:  135874
Ion  Ratio  Lower  Upper
 75  100
 77   31.3   11.5   51.5
 39   61.9   29.3   69.3
```

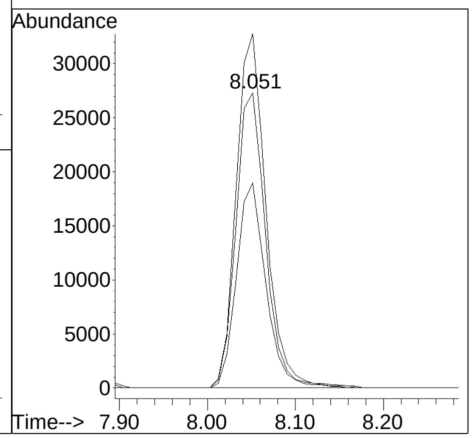


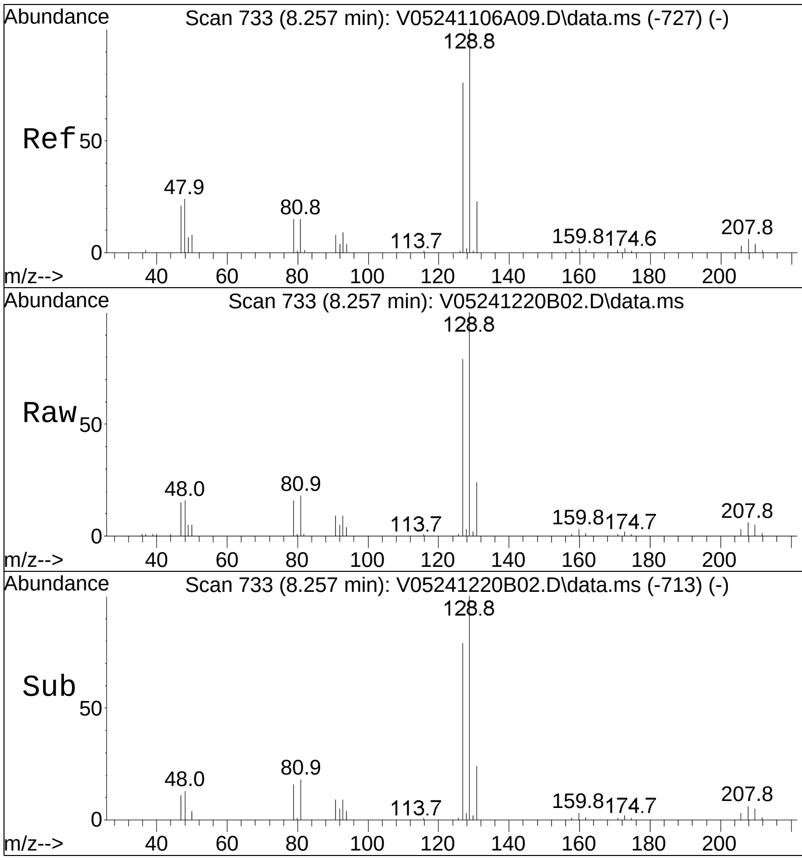



#68
1,1,2-Trichloroethane
Concen: 10.37 ug/L
RT: 8.051 min Scan# 712
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 83 Resp: 64301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 97 | 120.5 | 102.2 | 142.2 |
| 85 | 68.9 | 47.5 | 87.5 |

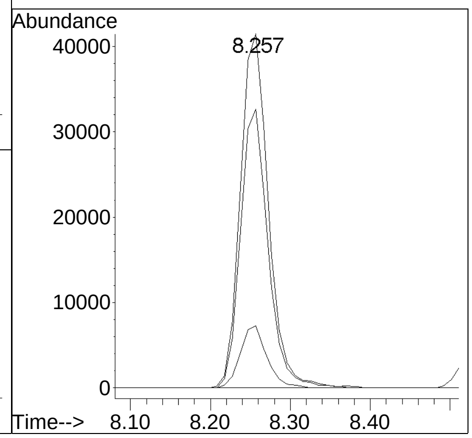


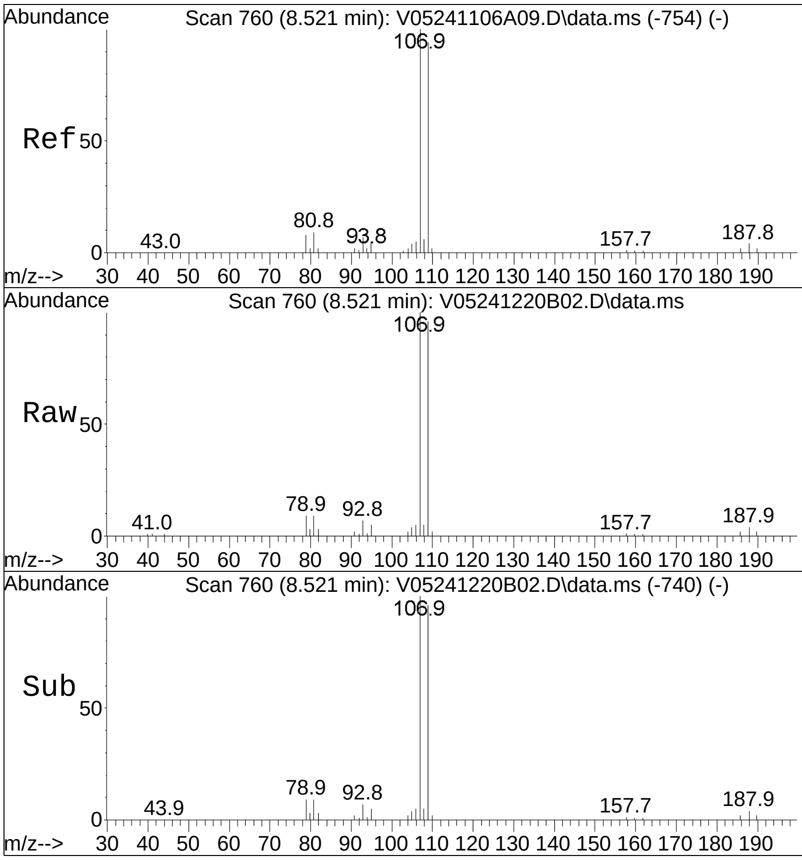



#69
Chlorodibromomethane
Concen: 10.40 ug/L
RT: 8.257 min Scan# 733
Delta R.T. -0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion:129 Resp: 101681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 81 | 16.7 | 0.0 | 37.0 |
| 127 | 77.3 | 58.3 | 98.3 |

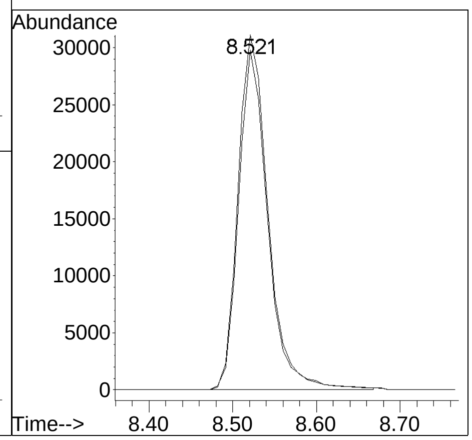


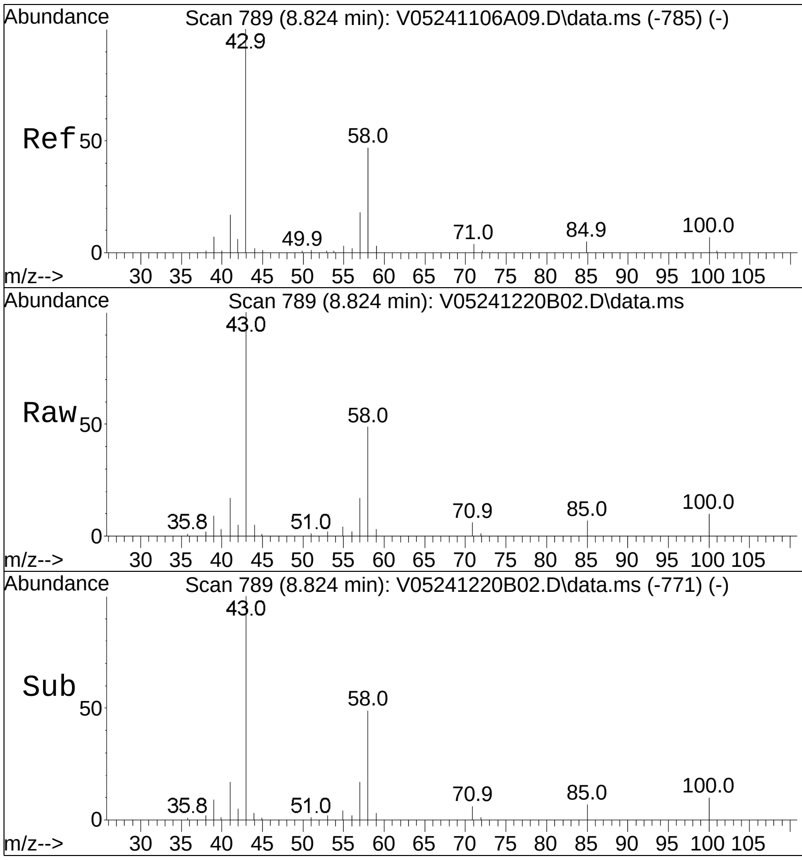



#71
1,2-Dibromoethane
Concen: 10.18 ug/L
RT: 8.521 min Scan# 760
Delta R.T. -0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion:107 Resp: 78041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.5 | 75.0 | 112.6 |

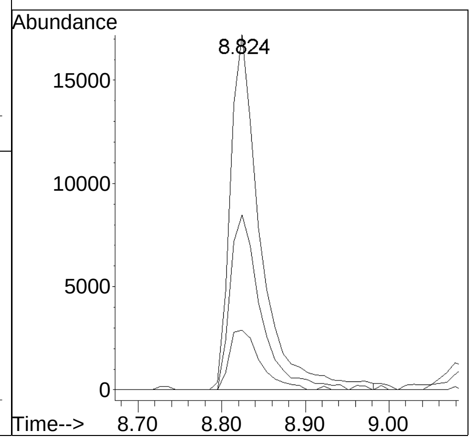


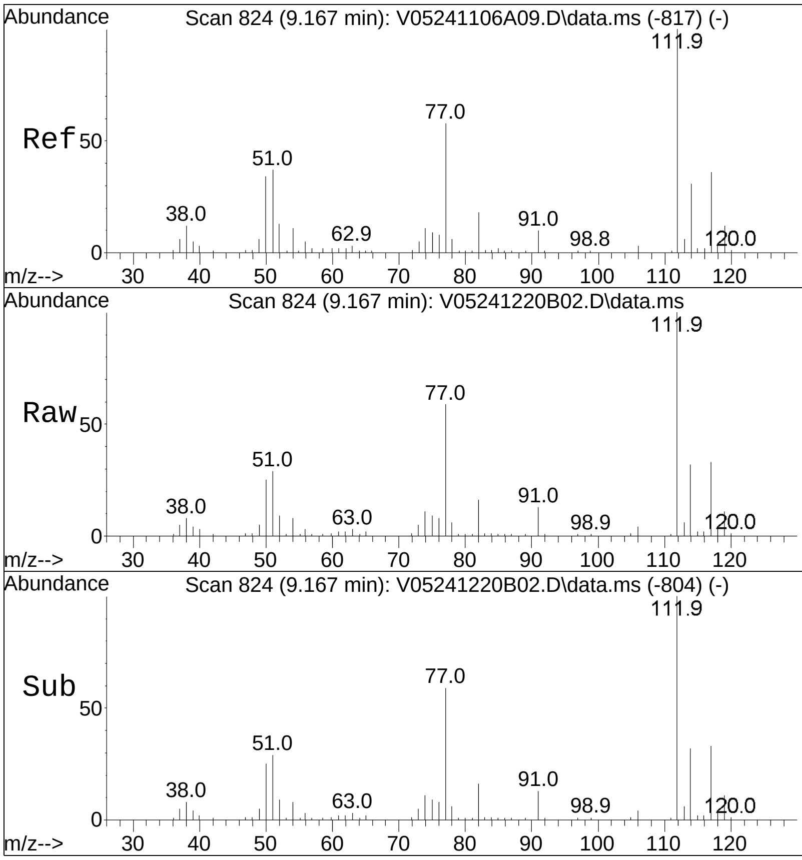



#72
2-Hexanone
Concen: 6.82 ug/L
RT: 8.824 min Scan# 789
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 43 Resp: 43412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 50.2 | 42.3 | 63.5 |
| 57 | 17.3 | 15.6 | 23.4 |

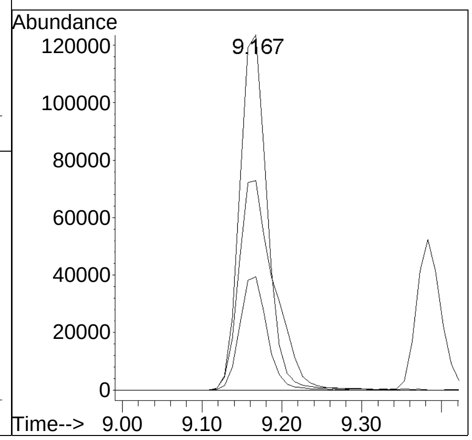


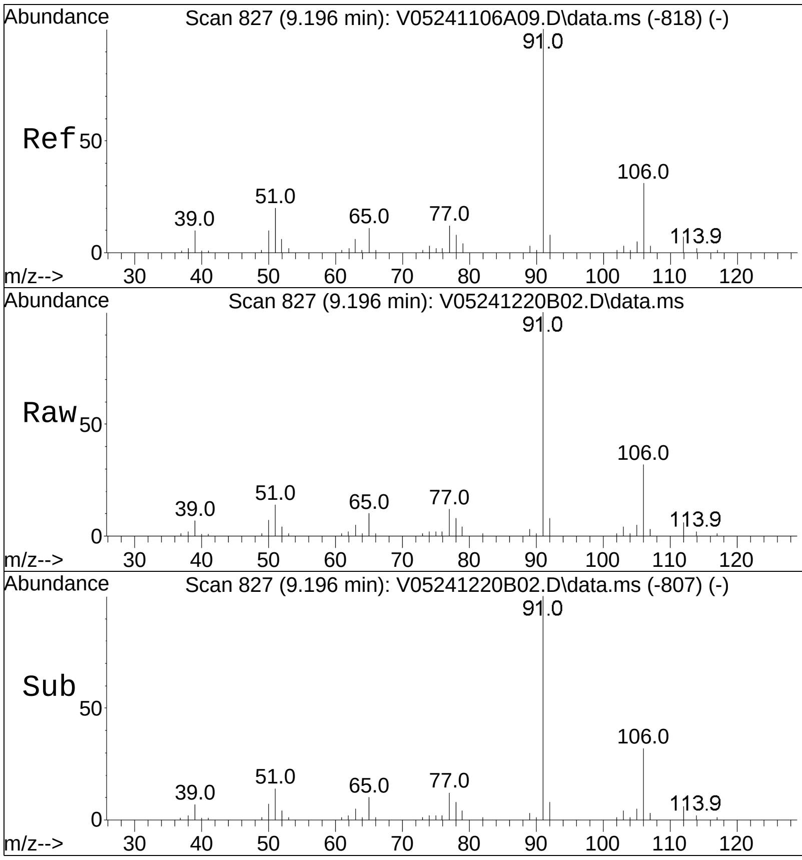



#73
Chlorobenzene
Concen: 10.20 ug/L
RT: 9.167 min Scan# 824
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion:112 Resp: 296202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 76.1 | 66.1 | 99.1 |
| 114 | 31.9 | 25.4 | 38.0 |

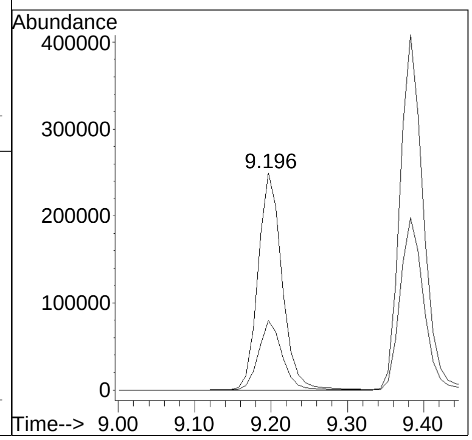


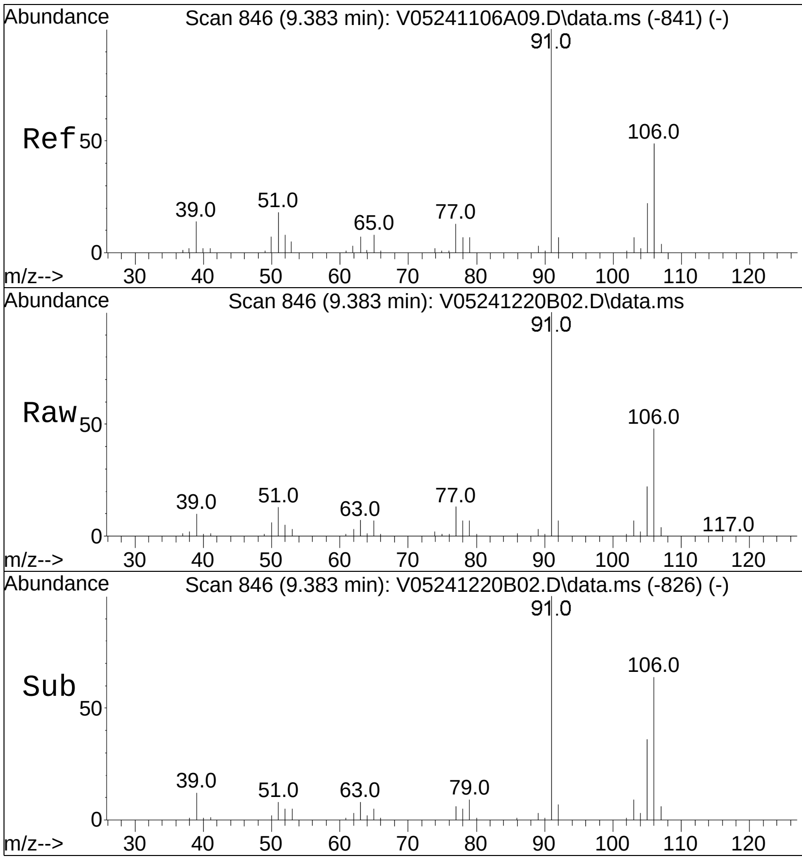



#74
Ethylbenzene
Concen: 10.20 ug/L
RT: 9.196 min Scan# 827
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 91 Resp: 545268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.2 | 22.9 | 34.3 |

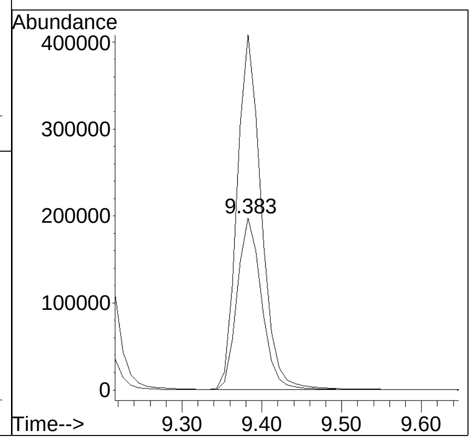


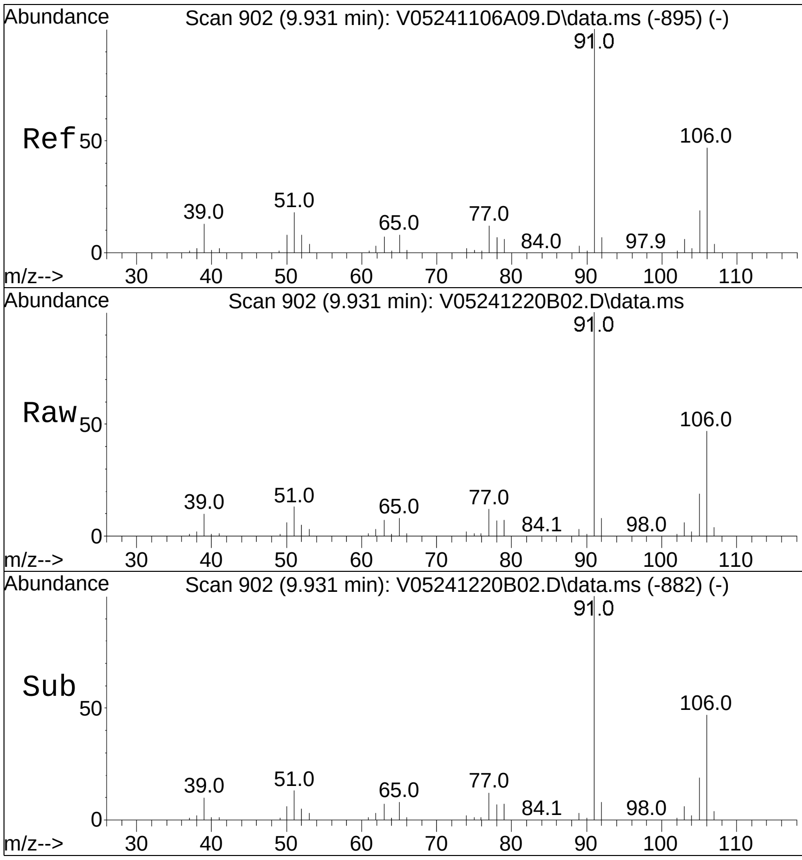



#76
p/m Xylene
Concen: 20.85 ug/L
RT: 9.383 min Scan# 846
Delta R.T. -0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion:106 Resp: 422358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 203.3 | 177.2 | 265.8 |

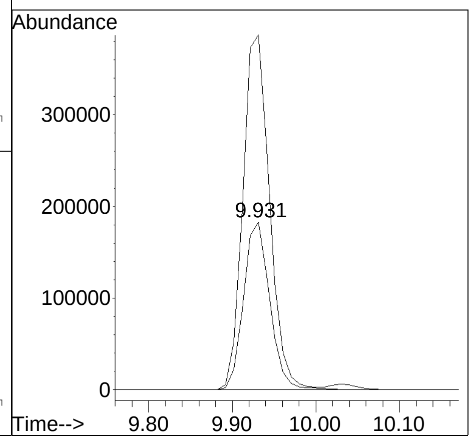


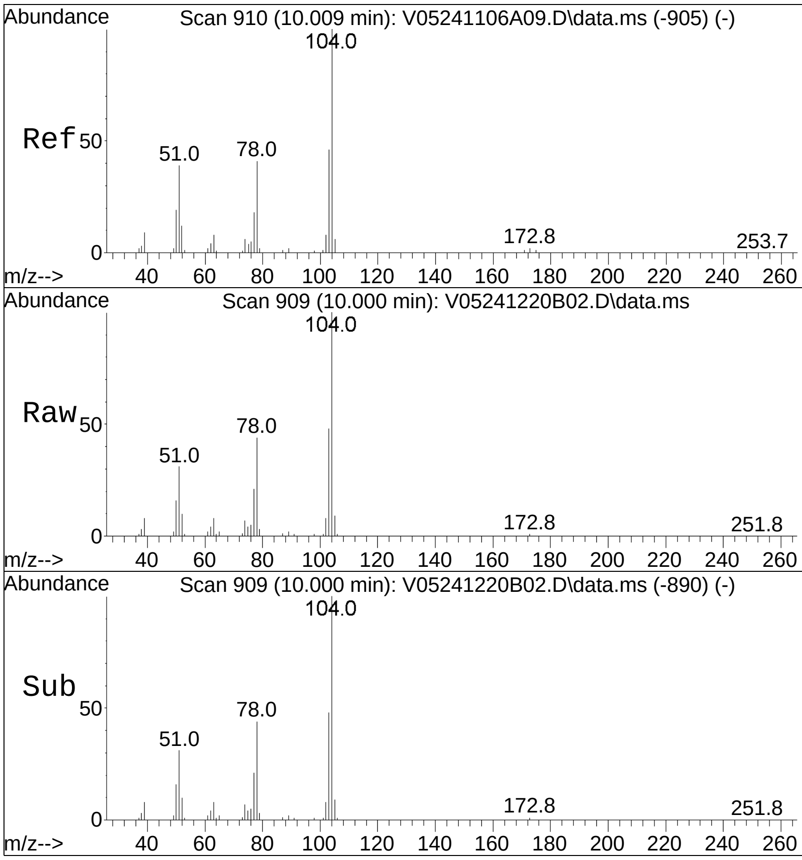



#77
o Xylene
Concen: 20.67 ug/L
RT: 9.931 min Scan# 902
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion:106 Resp: 400557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 214.3 | 187.0 | 280.6 |

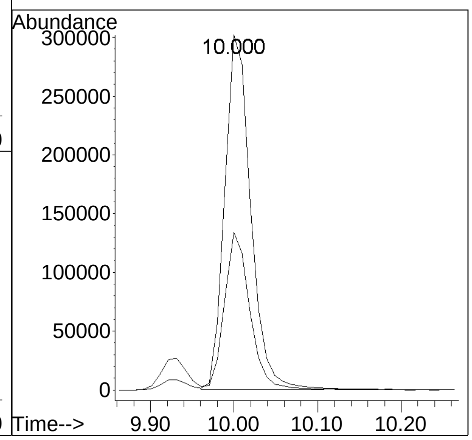


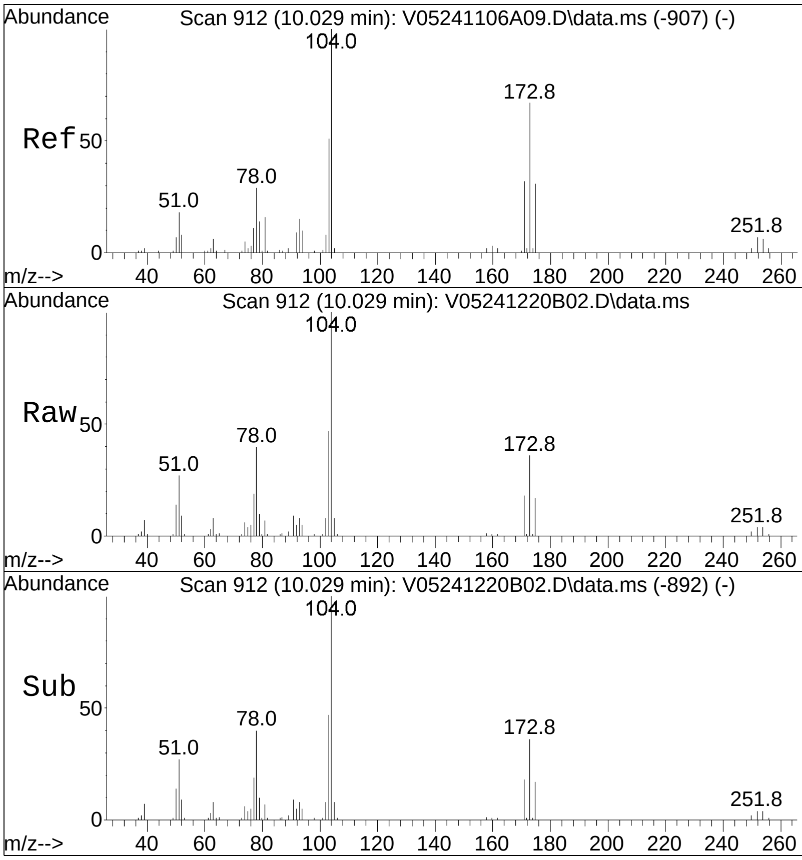



#78
Styrene
Concen: 20.86 ug/L
RT: 10.000 min Scan# 909
Delta R.T. -0.009 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

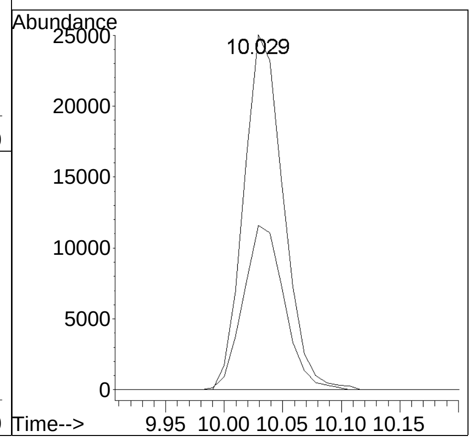
Tgt Ion:104 Resp: 653006

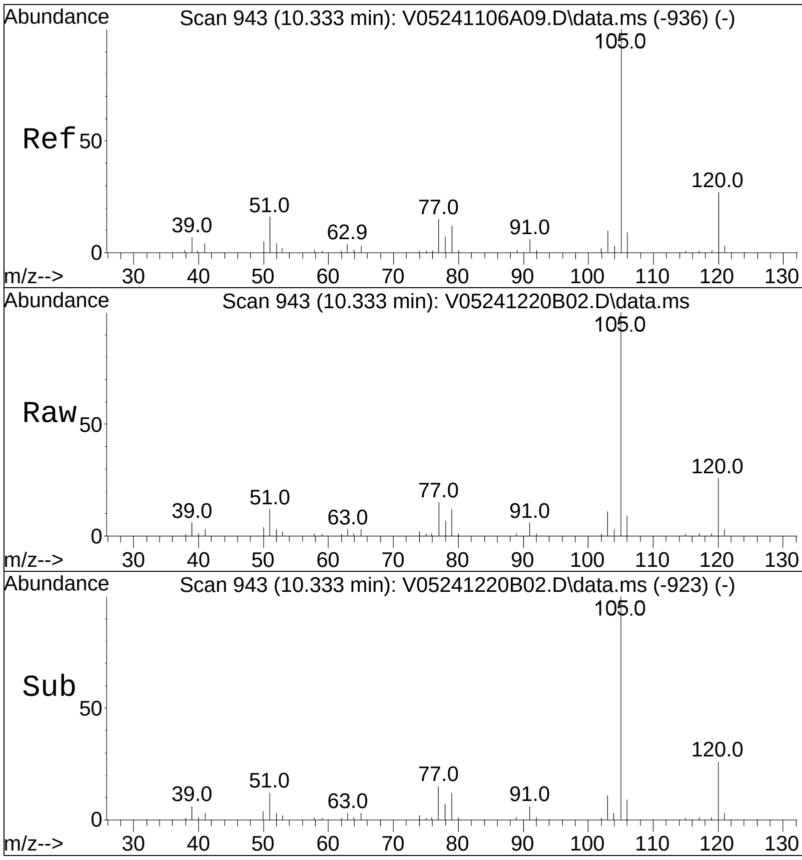
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 43.1 | 39.6 | 59.4 |






```
#80
Bromoform
Concen:   10.23 ug/L
RT:  10.029 min  Scan# 912
Delta R.T.  0.000 min
Lab File:   V05241220B02.D
Acq: 20 Dec 2024   9:54 am

Tgt Ion:173 Resp:   59016
Ion  Ratio  Lower  Upper
173  100
175   48.2   26.6   66.6
```

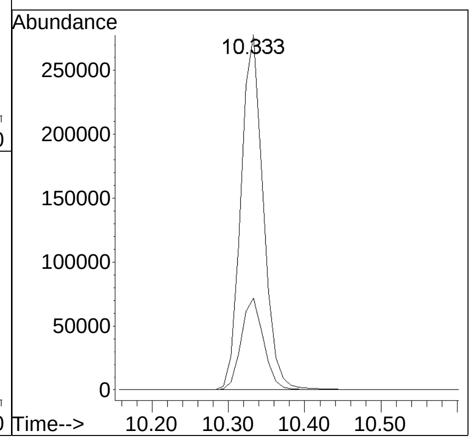


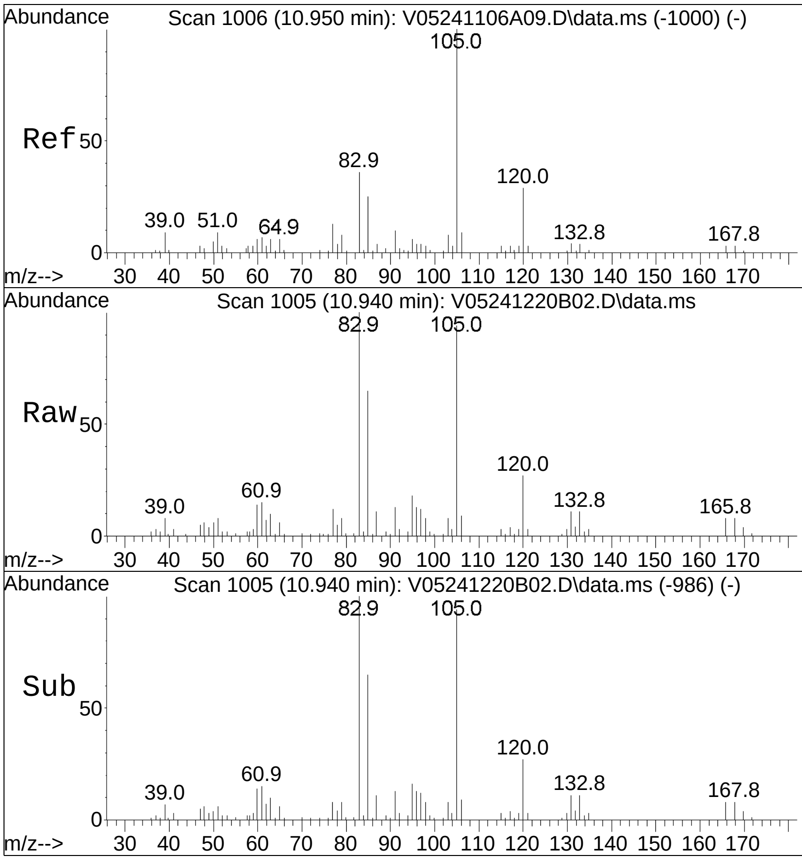



#82
Isopropylbenzene
Concen: 9.34 ug/L
RT: 10.333 min Scan# 943
Delta R.T. -0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion:105 Resp: 565867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.9 | 4.8 | 44.8 |

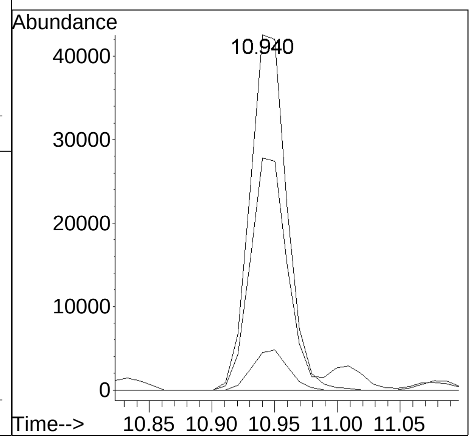


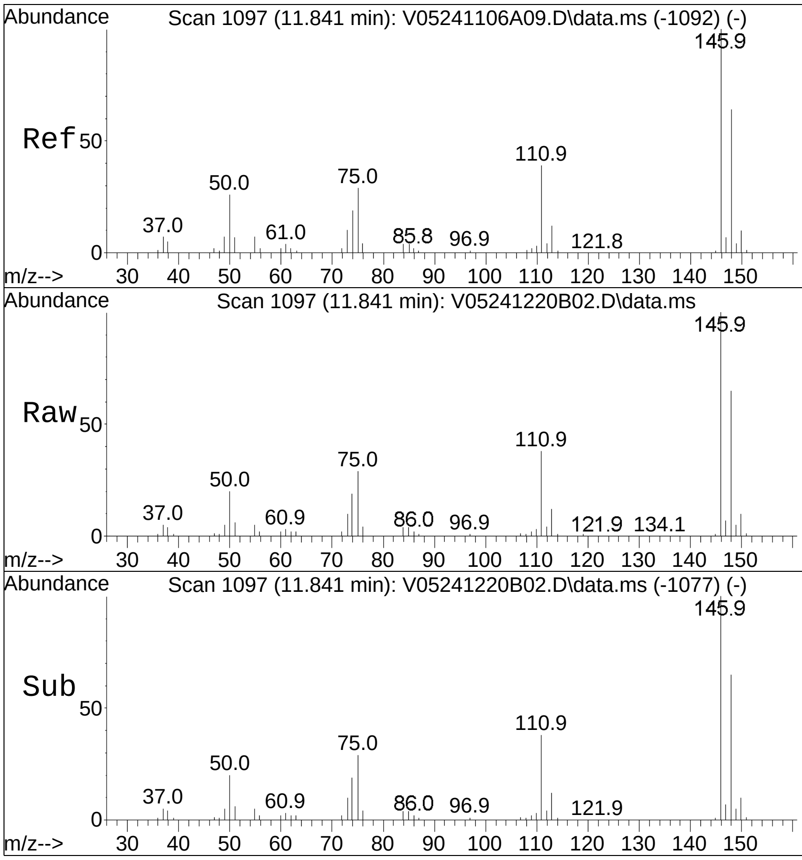



#87
1,1,2,2-Tetrachloroethane
Concen: 9.18 ug/L
RT: 10.940 min Scan# 1005
Delta R.T. -0.010 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion: 83 Resp: 87400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.0 | 0.0 | 30.4 |
| 85 | 66.7 | 46.4 | 86.4 |

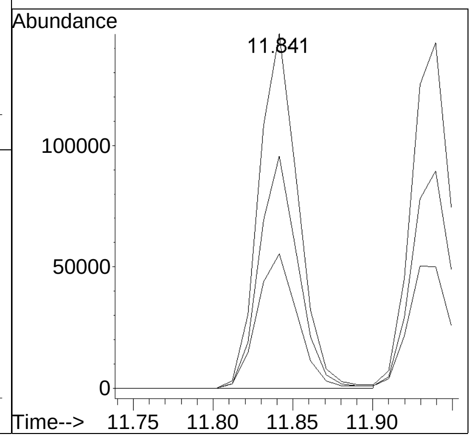


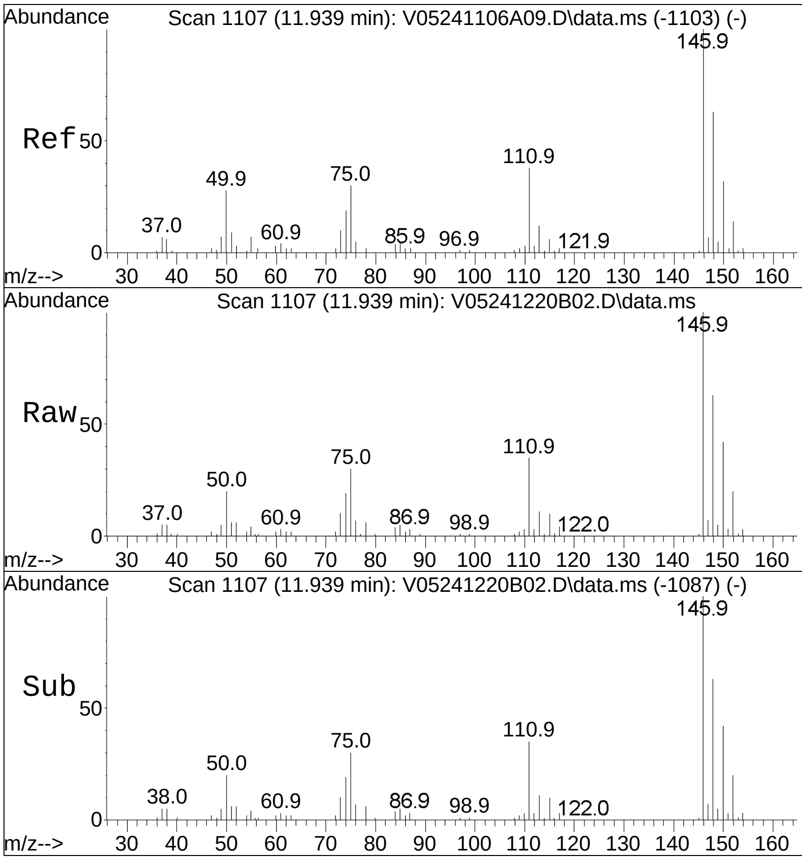



#100
1,3-Dichlorobenzene
Concen:    9.69 ug/L
RT:  11.841 min  Scan# 1097
Delta R.T.  0.000 min
Lab File:   V05241220B02.D
Acq: 20 Dec 2024   9:54 am

Tgt Ion:146 Resp:  249337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.9 | 28.0 | 58.1 |
| 148 | 64.5 | 41.6 | 86.4 |

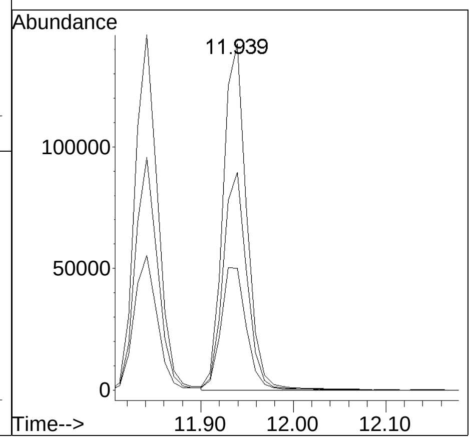


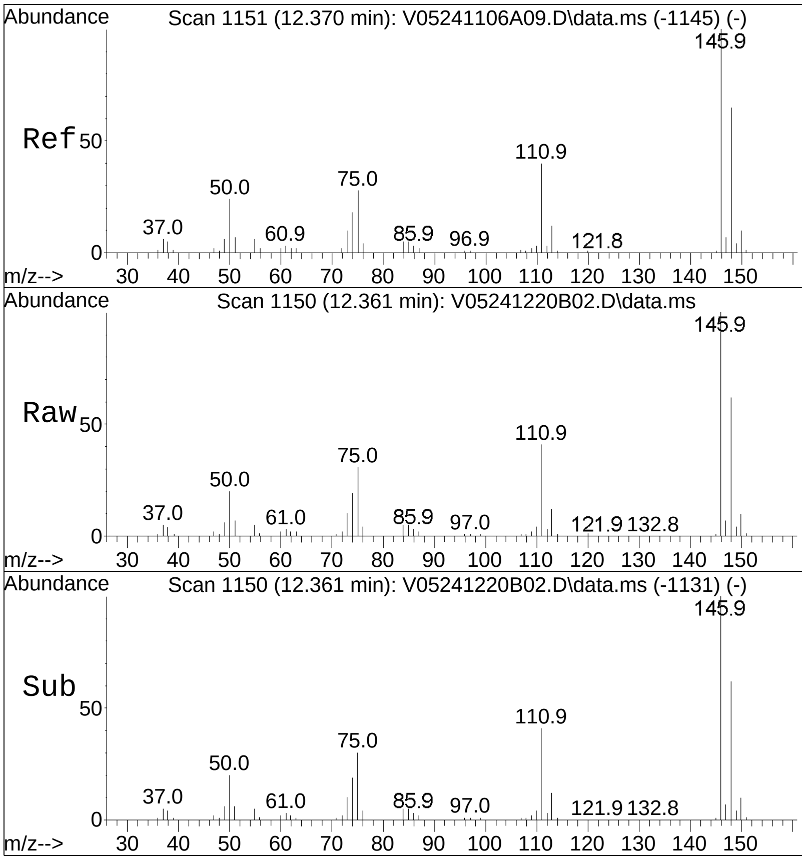



#101
1,4-Dichlorobenzene
Concen: 9.88 ug/L
RT: 11.939 min Scan# 1107
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion:146 Resp: 254033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.2 | 33.8 | 50.6 |
| 148 | 63.7 | 51.0 | 76.6 |

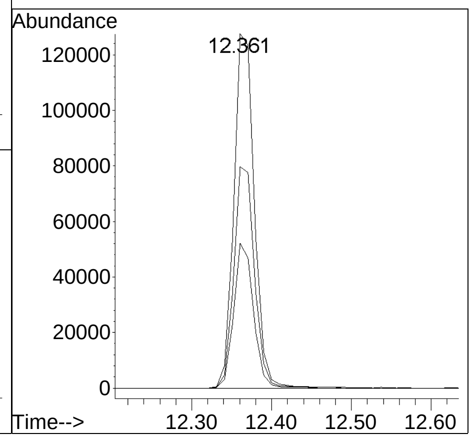


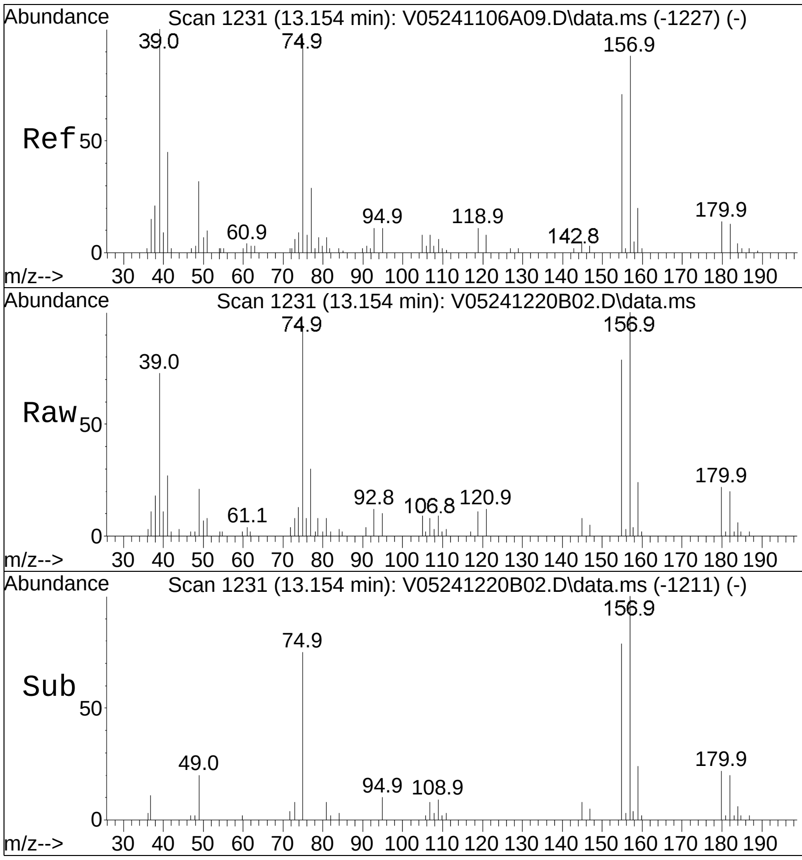



#104
1,2-Dichlorobenzene
Concen:    9.83 ug/L
RT:  12.361 min  Scan# 1150
Delta R.T.  -0.009 min
Lab File:   V05241220B02.D
Acq: 20 Dec 2024   9:54 am

Tgt Ion:146 Resp:  228022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.3 | 29.1 | 60.5 |
| 148 | 63.0 | 41.7 | 86.7 |

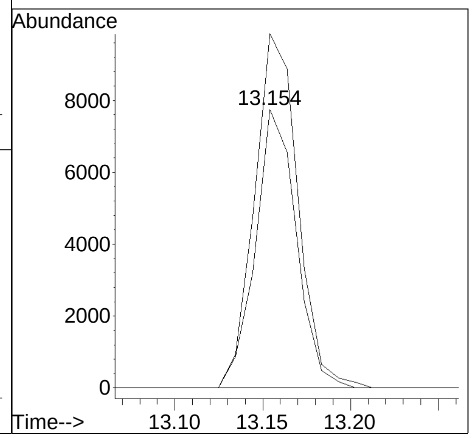


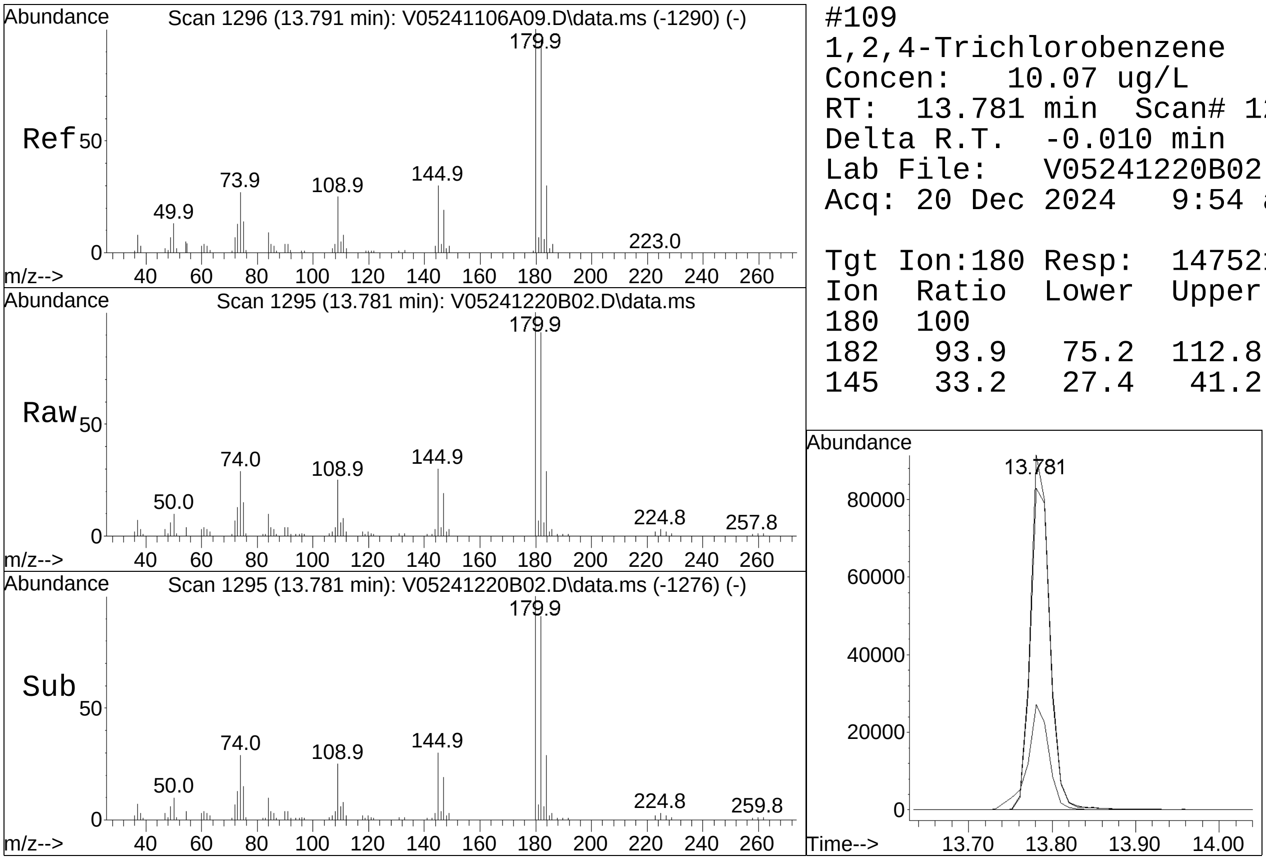



#106
1,2-Dibromo-3-chloropropane
Concen: 8.41 ug/L
RT: 13.154 min Scan# 1231
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion:155 Resp: 12600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 155 | 100 | | |
| 157 | 134.4 | 105.0 | 157.6 |

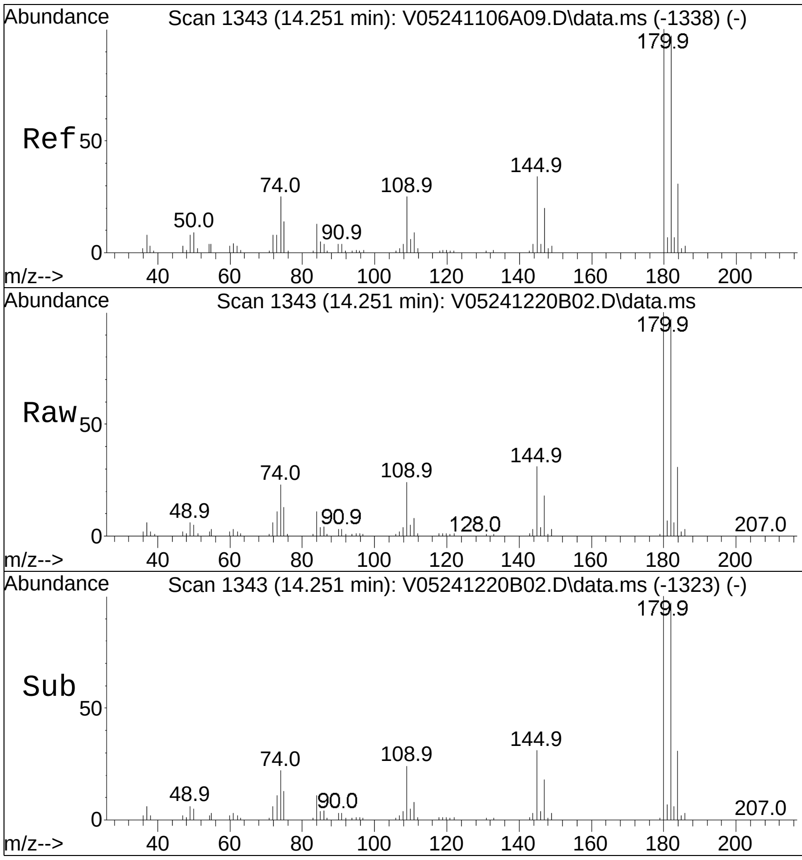





#109
1,2,4-Trichlorobenzene
Concen: 10.07 ug/L
RT: 13.781 min Scan# 1295
Delta R.T. -0.010 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion:180 Resp: 147521

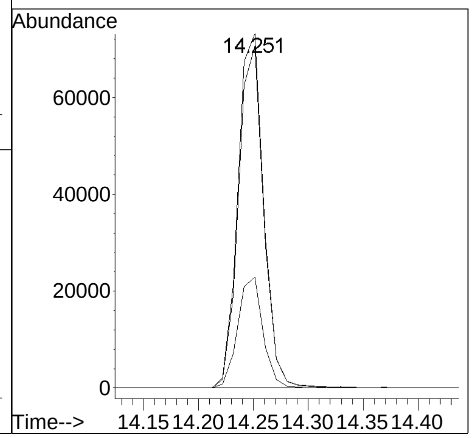
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.9 | 75.2 | 112.8 |
| 145 | 33.2 | 27.4 | 41.2 |




#111
1,2,3-Trichlorobenzene
Concen: 9.69 ug/L
RT: 14.251 min Scan# 1343
Delta R.T. 0.000 min
Lab File: V05241220B02.D
Acq: 20 Dec 2024 9:54 am

Tgt Ion:180 Resp: 119806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.5 | 75.5 | 113.3 |
| 145 | 30.7 | 26.5 | 39.7 |



Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA105\2024\241220B\ | QMethod | : V105_241106A_8260.m |
| Data File | : V05241220B02.D | Operator | : VOA105:PID |
| Date Inj'd | : 12/20/2024 9:54 am | Instrument | : VOA105 |
| Sample | : WG2012422-3,31,10,10 | Quant Date | : 12/20/2024 10:15 am |

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

Quantitation Report    (QT Reviewed)

```
Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A01.D
Acq On    : 21 Dec 2024   5:08 am
Operator  : VOA101:PID
Sample    : WG2012561-3,31,10,10
Misc      : WG2012561,ICAL21767
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Dec 21 05:38:37 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241221A\V01241221A01.D
Sub List     : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

        Compound                    R.T. QIon  Response  Conc Units Dev(Min)
 ------------------------------------------------------------------------------
 Internal Standards
 1) Fluorobenzene                5.899   96    209706    10.000 ug/L     0.00
   Standard Area 1 = 209706                 Recovery   =  100.00%
59) Chlorobenzene-d5             9.413  117    164101    10.000 ug/L     0.00
   Standard Area 1 = 164101                 Recovery   =  100.00%
79) 1,4-Dichlorobenzene-d4      12.143  152     88109    10.000 ug/L     0.00
   Standard Area 1 = 88109                 Recovery   =  100.00%

 System Monitoring Compounds
36) Dibromofluoromethane         5.101  113     55077     9.725 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   97.25%
43) 1,2-Dichloroethane-d4        5.615   65     61623     9.978 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   99.78%
60) Toluene-d8                   7.575   98    207554    10.034 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =  100.34%
83) 4-Bromofluorobenzene        10.924   95     79355     9.701 ug/L    0.00
   Spiked Amount     10.000   Range  70 - 130    Recovery   =   97.01%

 Target Compounds                                                   Qvalue
 2) Dichlorodifluoromethane      1.621   85      65166     10.024 ug/L      98
 3) Chloromethane                1.811   50      69538     10.414 ug/L     100
 4) Vinyl chloride               1.872   62      83525     11.906 ug/L      99
 5) Bromomethane                 2.171   94      25998      7.381 ug/L      99
 6) Chloroethane                 2.285   64      67341     15.316 ug/L      95
 7) Trichlorofluoromethane       2.419  101     113649     12.458 ug/L      98
10) 1,1-Dichloroethene           2.890   96      63977     12.169 ug/L      82
11) Carbon disulfide             2.921   76     196913     12.228 ug/L     100
12) Freon-113                    2.932  101      68751     12.366 ug/L      78
15) Methylene chloride           3.431   84      50580      9.928 ug/L      81
17) Acetone                      3.484   43       9651      8.639 ug/L      89
18) trans-1,2-Dichloroethene     3.582   96      52123     10.124 ug/L      96
19) Methyl acetate               3.596   43      23562      9.889 ug/L #    90
20) Methyl tert-butyl ether      3.682   73      98591      8.965 ug/L #    87
23) 1,1-Dichloroethane           4.153   63     105116     10.635 ug/L      98
28) cis-1,2-Dichloroethene       4.664   96      57601     10.246 ug/L      95
30) Bromochloromethane           4.853  128      25638      9.821 ug/L #    85
31) Cyclohexane                  4.856   56     107624     10.316 ug/L      88
32) Chloroform                   4.923   83      94010     10.269 ug/L      94
34) Carbon tetrachloride         5.057  117      72017      9.596 ug/L      98
```

Quantitation Report    (QT Reviewed)

Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A01.D
Acq On    : 21 Dec 2024   5:08 am
Operator  : VOA101:PID
Sample    : WG2012561-3,31,10,10
Misc      : WG2012561,ICAL21767
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Dec 21 05:38:37 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241221A\V01241221A01.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 | 5.121 | 97 | 83643 | 9.991 ug/L | 96 |
| 39) 2-Butanone | 5.219 | 43 | 15777 | 10.312 ug/L # | 47 |
| 41) Benzene | 5.481 | 78 | 212411 | 10.564 ug/L | 95 |
| 44) 1,2-Dichloroethane | 5.684 | 62 | 68683 | 10.403 ug/L | 99 |
| 47) Methyl cyclohexane | 6.061 | 83 | 89910 | 9.690 ug/L | 87 |
| 48) Trichloroethene | 6.077 | 95 | 58081 | 10.384 ug/L | 98 |
| 51) 1,2-Dichloropropane | 6.613 | 63 | 57545 | 10.686 ug/L | 96 |
| 54) Bromodichloromethane | 6.688 | 83 | 68757 | 9.899 ug/L | 100 |
| 58) cis-1,3-Dichloropropene | 7.369 | 75 | 75134 | 9.452 ug/L # | 87 |
| 61) Toluene | 7.633 | 92 | 138607 | 10.502 ug/L | 99 |
| 62) 4-Methyl-2-pentanone | 8.063 | 58 | 11361 | 9.866 ug/L # | 91 |
| 63) Tetrachloroethene | 8.082 | 166 | 54904 | 9.904 ug/L | 95 |
| 65) trans-1,3-Dichloropropene | 8.119 | 75 | 62217 | 9.593 ug/L | 88 |
| 68) 1,1,2-Trichloroethane | 8.306 | 83 | 32755 | 10.710 ug/L | 98 |
| 69) Chlorodibromomethane | 8.512 | 129 | 45943 | 9.778 ug/L | 98 |
| 71) 1,2-Dibromoethane | 8.788 | 107 | 37301 | 10.457 ug/L | 99 |
| 72) 2-Hexanone | 9.075 | 43 | 19609M1 | 9.785 ug/L | |
| 73) Chlorobenzene | 9.432 | 112 | 156665 | 10.378 ug/L | 98 |
| 74) Ethylbenzene | 9.471 | 91 | 276947 | 10.640 ug/L | 100 |
| 76) p/m Xylene | 9.655 | 106 | 214085 | 20.676 ug/L | 98 |
| 77) o Xylene | 10.202 | 106 | 205066 | 20.770 ug/L | 98 |
| 78) Styrene | 10.272 | 104 | 348293 | 21.314 ug/L | 96 |
| 80) Bromoform | 10.299 | 173 | 22670 | 9.096 ug/L | 99 |
| 82) Isopropylbenzene | 10.592 | 105 | 280675 | 10.465 ug/L | 98 |
| 87) 1,1,2,2-Tetrachloroethane | 11.172 | 83 | 47979 | 11.594 ug/L | 100 |
| 100) 1,3-Dichlorobenzene | 12.065 | 146 | 118346 | 10.604 ug/L | 99 |
| 101) 1,4-Dichlorobenzene | 12.157 | 146 | 118795 | 10.522 ug/L | 99 |
| 104) 1,2-Dichlorobenzene | 12.581 | 146 | 104249 | 10.739 ug/L | 99 |
| 106) 1,2-Dibromo-3-chloropr... | 13.364 | 155 | 4935 | 9.469 ug/L | 98 |
| 109) 1,2,4-Trichlorobenzene | 14.000 | 180 | 47210 | 9.473 ug/L | 97 |
| 111) 1,2,3-Trichlorobenzene | 14.463 | 180 | 35919 | 9.376 ug/L | 98 |

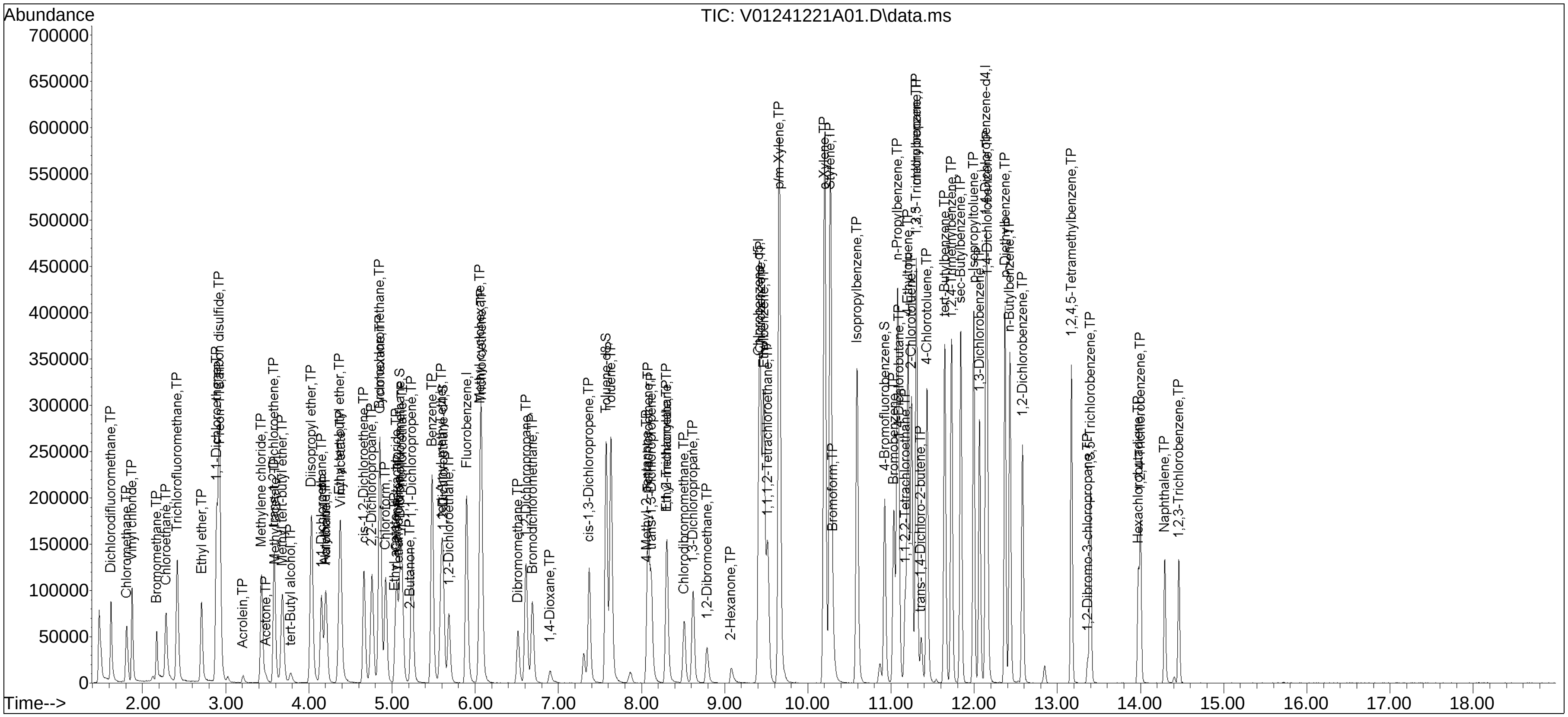
(#) = qualifier out of range (m) = manual integration (+) = signals summed

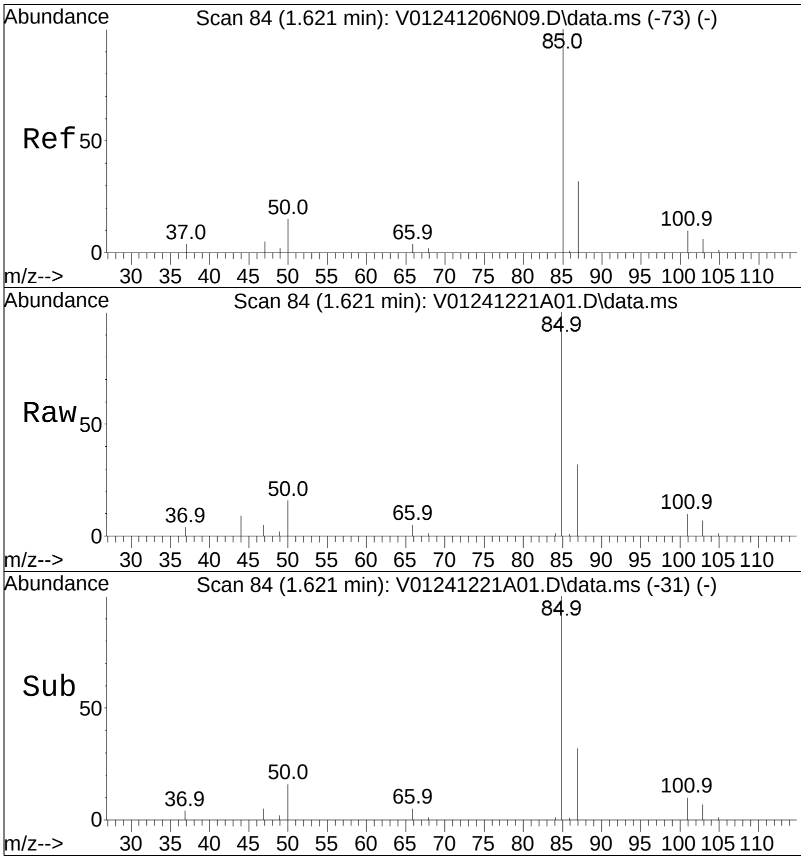
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A01.D
Acq On : 21 Dec 2024 5:08 am
Operator : VOA101:PID
Sample : WG2012561-3,31,10,10
Misc : WG2012561,ICAL21767
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 05:38:37 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

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

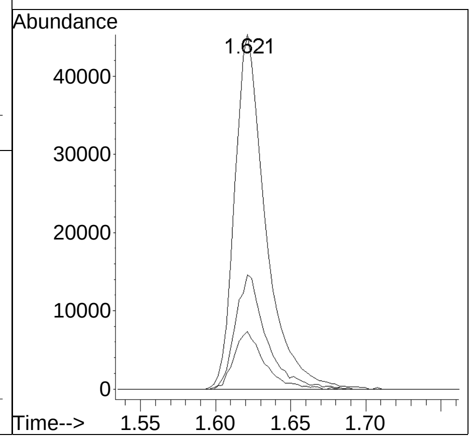


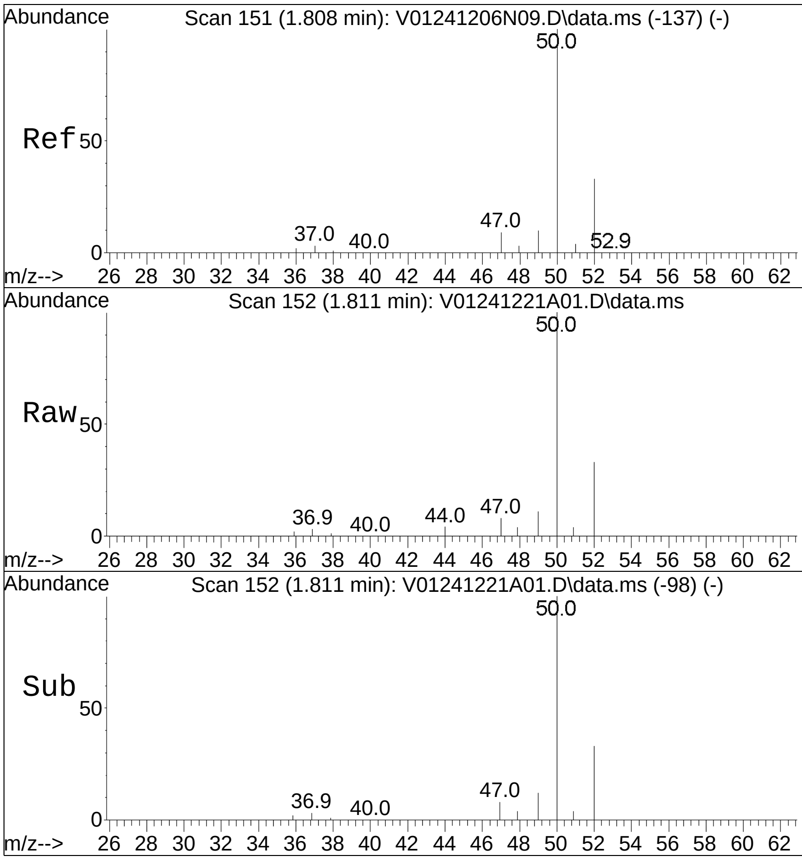



#2
Dichlorodifluoromethane
Concen: 10.02 ug/L
RT: 1.621 min Scan# 84
Delta R.T. 0.000 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 85 Resp: 65166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.3 | 20.9 | 43.5 |
| 50 | 15.9 | 9.1 | 18.9 |

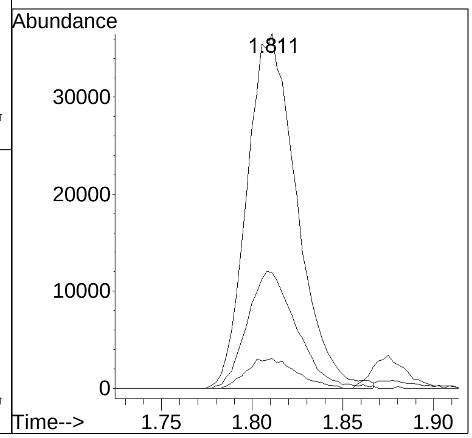


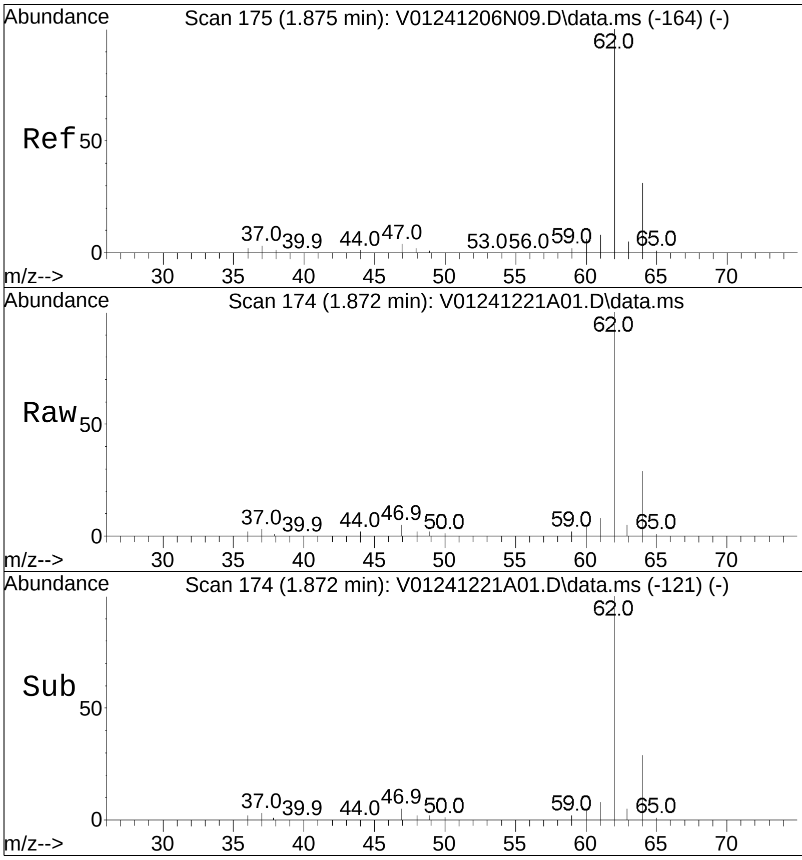



#3
Chloromethane
Concen: 10.41 ug/L
RT: 1.811 min Scan# 152
Delta R.T. 0.003 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 50 Resp: 69538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.5 | 12.8 | 52.8 |
| 47 | 8.3 | 0.0 | 28.3 |

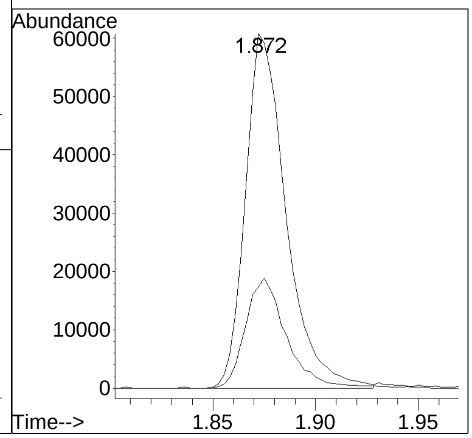


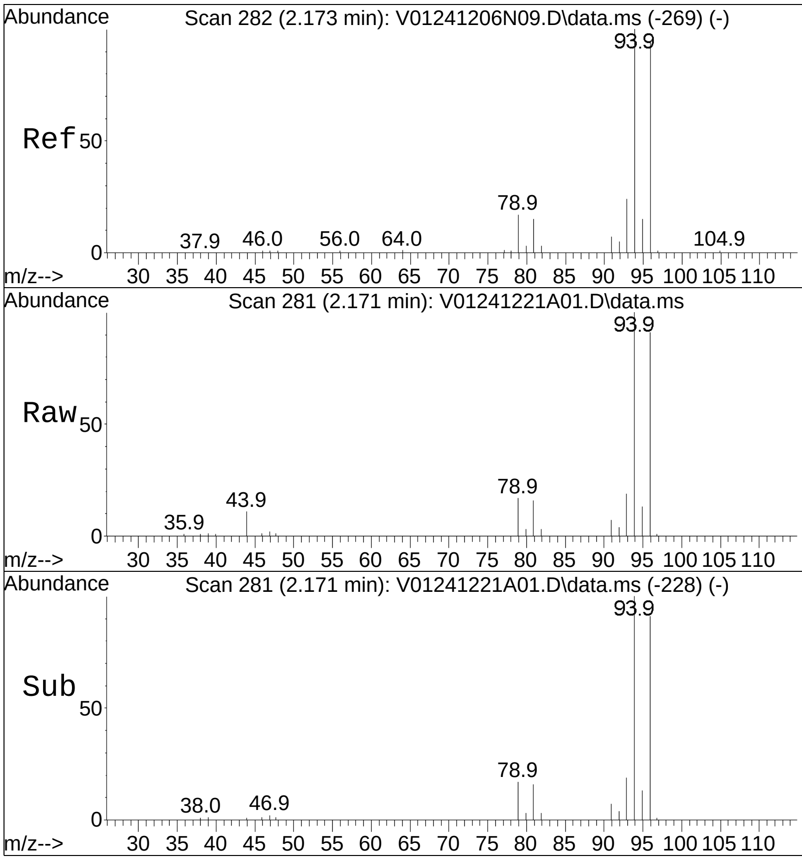



#4
Vinyl chloride
Concen: 11.91 ug/L
RT: 1.872 min Scan# 174
Delta R.T. -0.003 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 62 Resp: 83525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.1 | 10.8 | 50.8 |

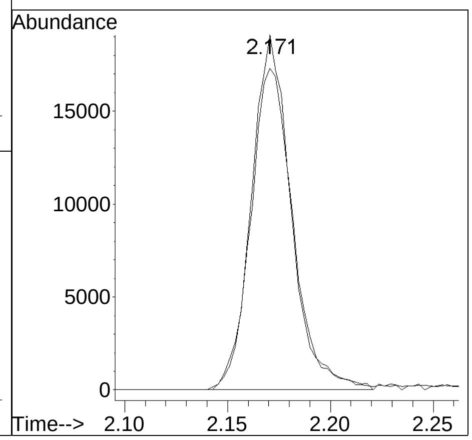


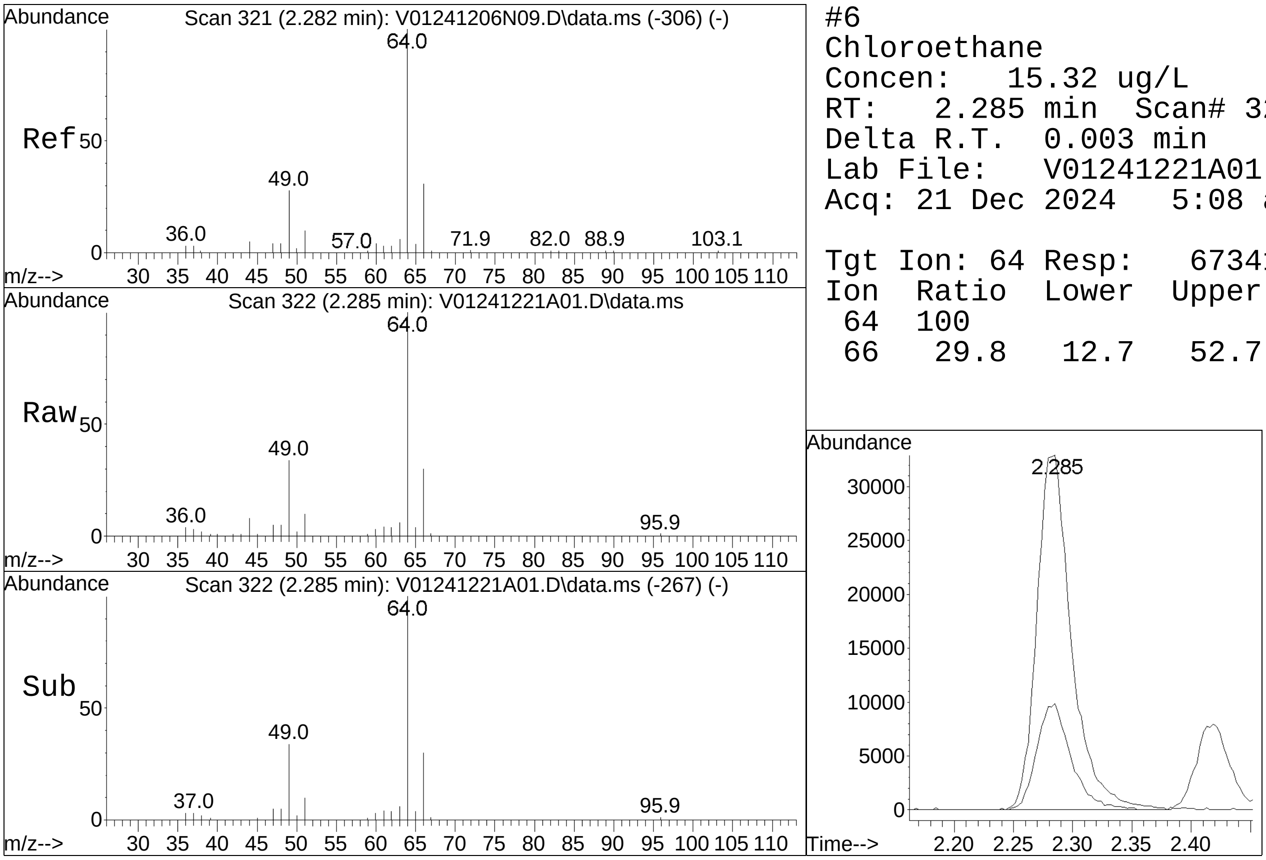



#5
Bromomethane
Concen: 7.38 ug/L
RT: 2.171 min Scan# 281
Delta R.T. -0.002 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 94 Resp: 25998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.4 | 73.6 | 113.6 |

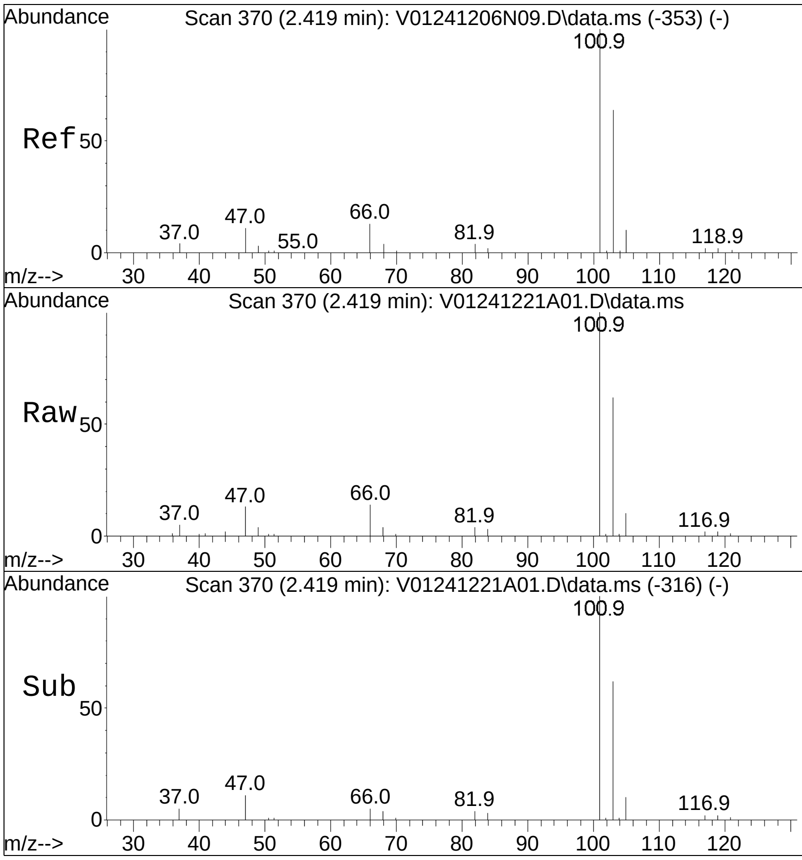





#6
Chloroethane
Concen: 15.32 ug/L
RT: 2.285 min Scan# 322
Delta R.T. 0.003 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 64 Resp: 67341

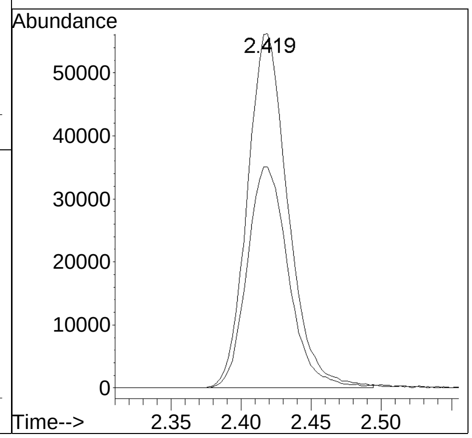
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 29.8 | 12.7 | 52.7 |

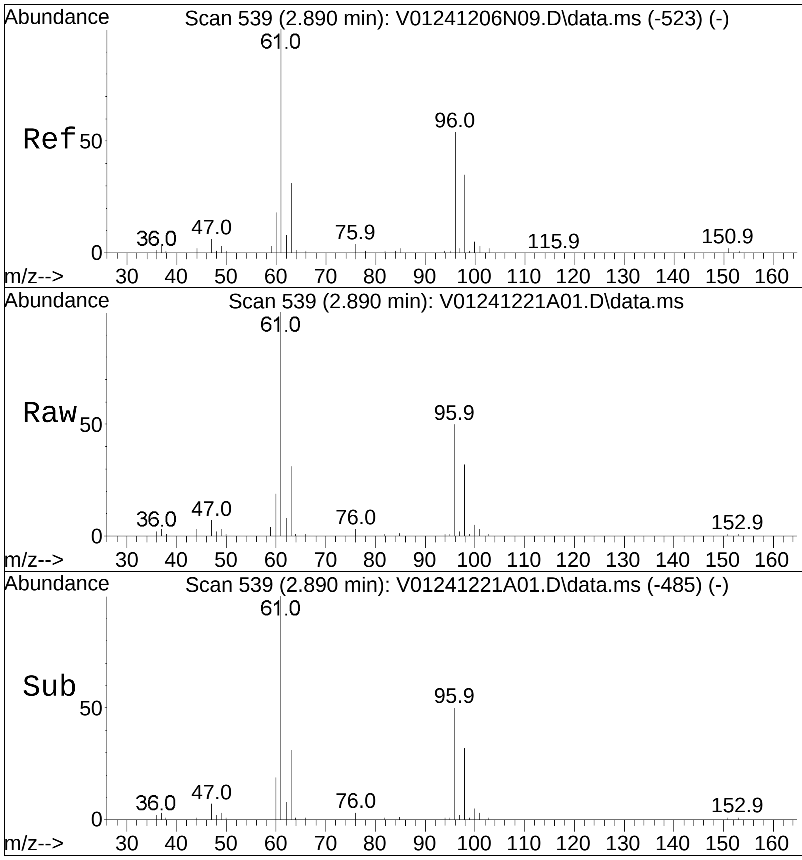



#7
Trichlorofluoromethane
Concen: 12.46 ug/L
RT: 2.419 min Scan# 370
Delta R.T. -0.000 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion:101 Resp: 113649

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.6 | 52.3 | 78.5 |

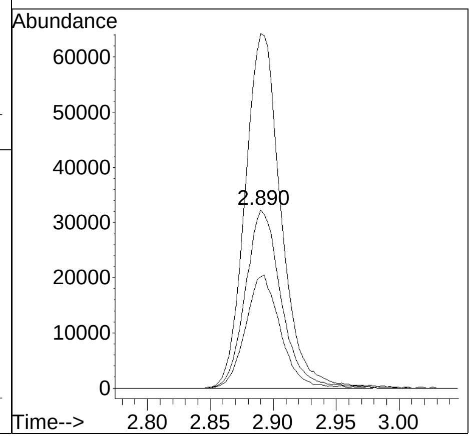


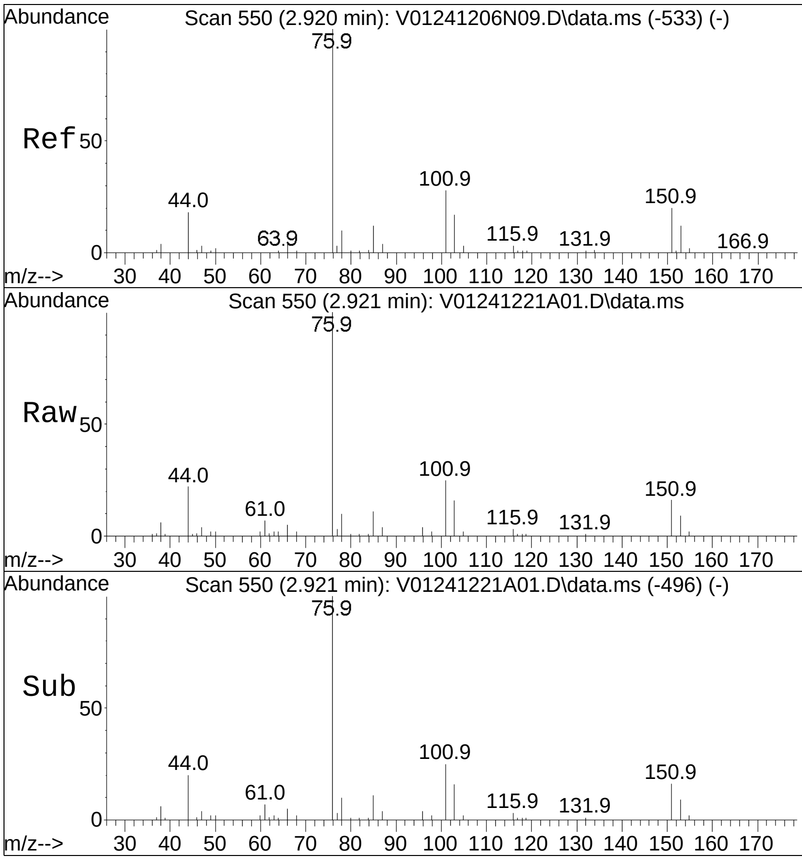



#10
1,1-Dichloroethene
Concen: 12.17 ug/L
RT: 2.890 min Scan# 539
Delta R.T. 0.000 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 96 Resp: 63977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 198.7 | 136.8 | 205.2 |
| 63 | 61.3 | 43.6 | 65.4 |

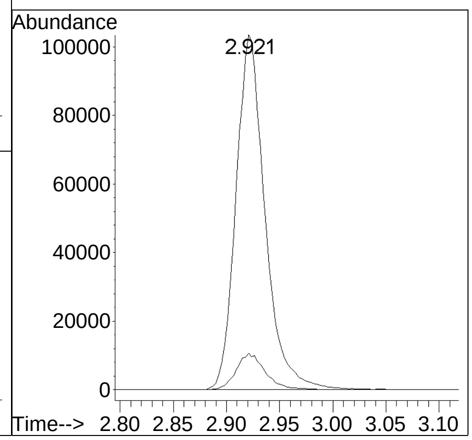


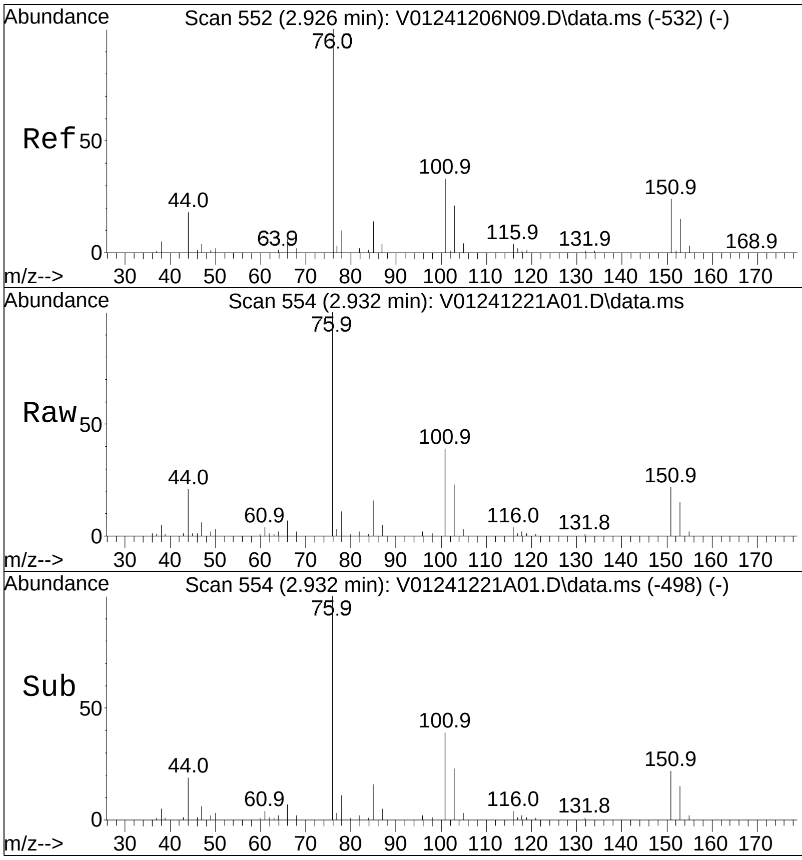



#11
Carbon disulfide
Concen: 12.23 ug/L
RT: 2.921 min Scan# 550
Delta R.T. 0.001 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 76 Resp: 196913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.4 | 6.6 | 13.8 |

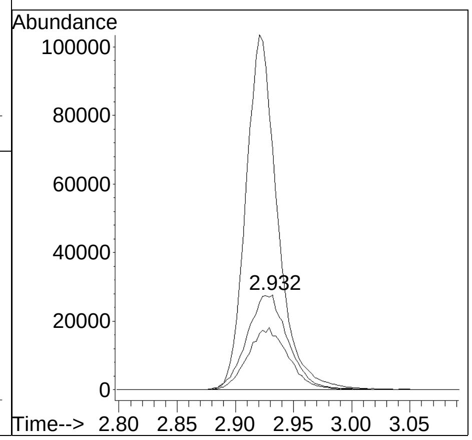


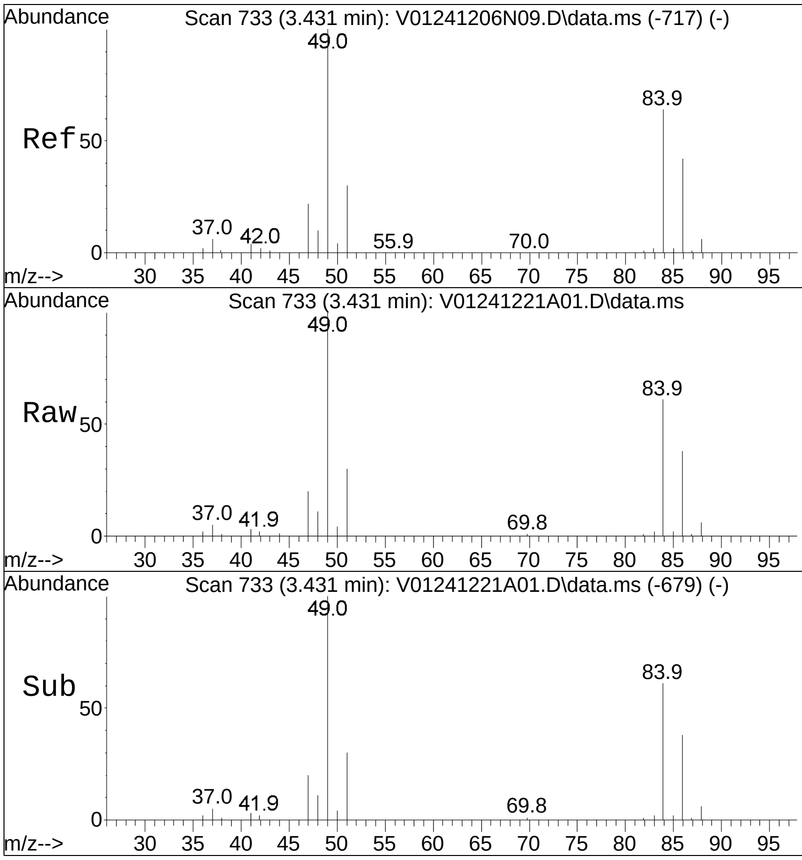



#12
Freon-113
Concen: 12.37 ug/L
RT: 2.932 min Scan# 554
Delta R.T. 0.006 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion:101 Resp: 68751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 64.2 | 61.2 | 91.8 |
| 76 | 286.4 | 194.8 | 292.2 |

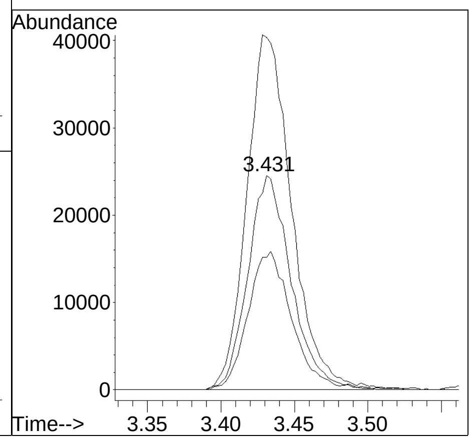


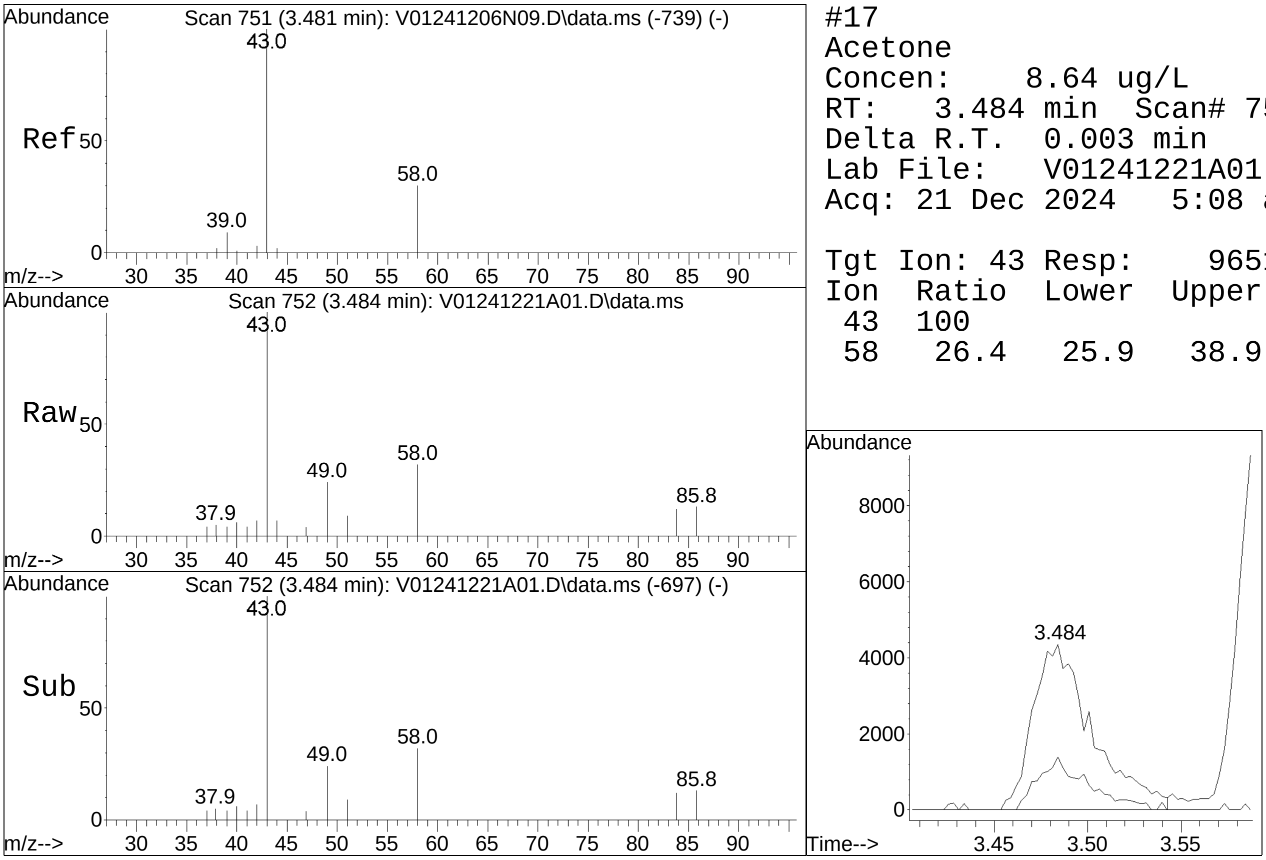



#15
Methylene chloride
Concen: 9.93 ug/L
RT: 3.431 min Scan# 733
Delta R.T. 0.000 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 84 Resp: 50580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 64.6 | 41.7 | 86.7 |
| 49 | 170.0 | 89.1 | 185.1 |

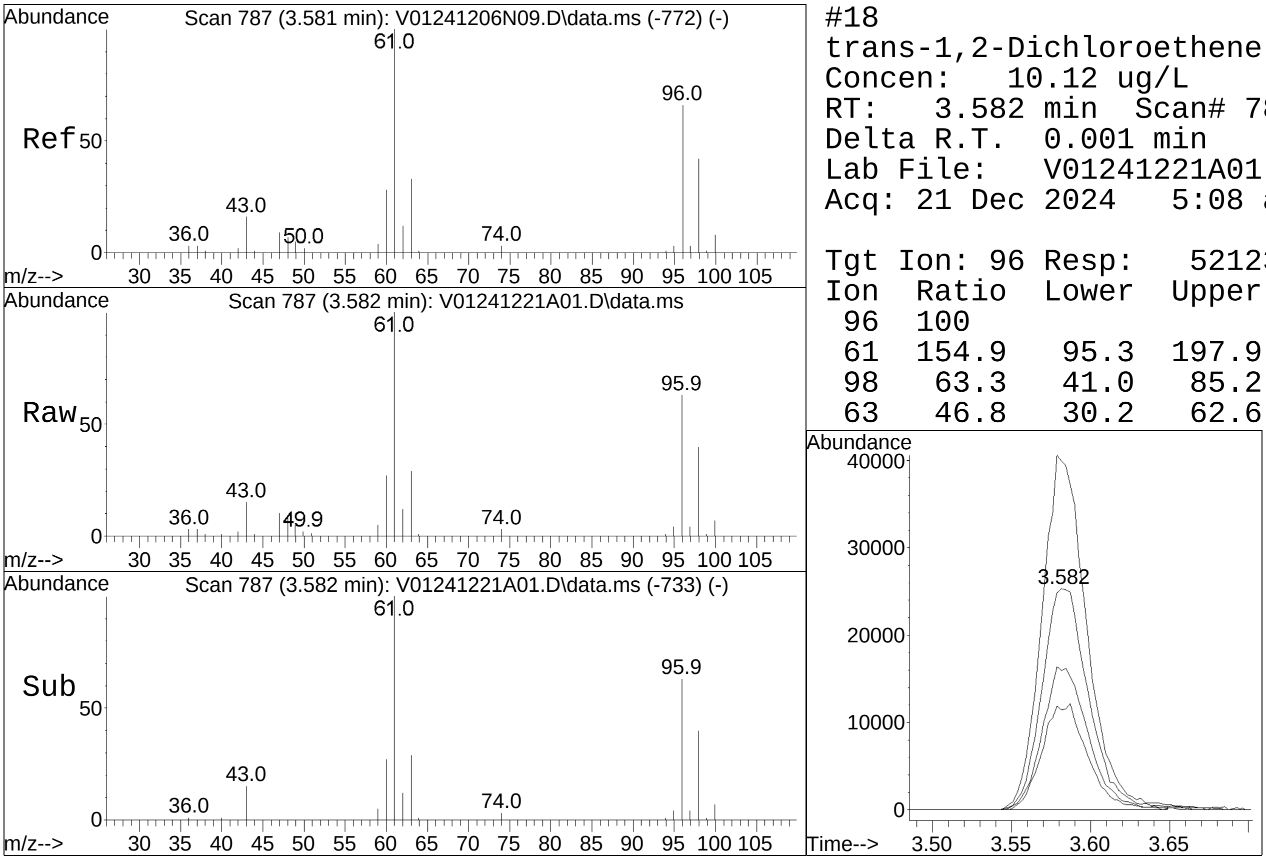





#17
Acetone
Concen: 8.64 ug/L
RT: 3.484 min Scan# 752
Delta R.T. 0.003 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 43 Resp: 9651

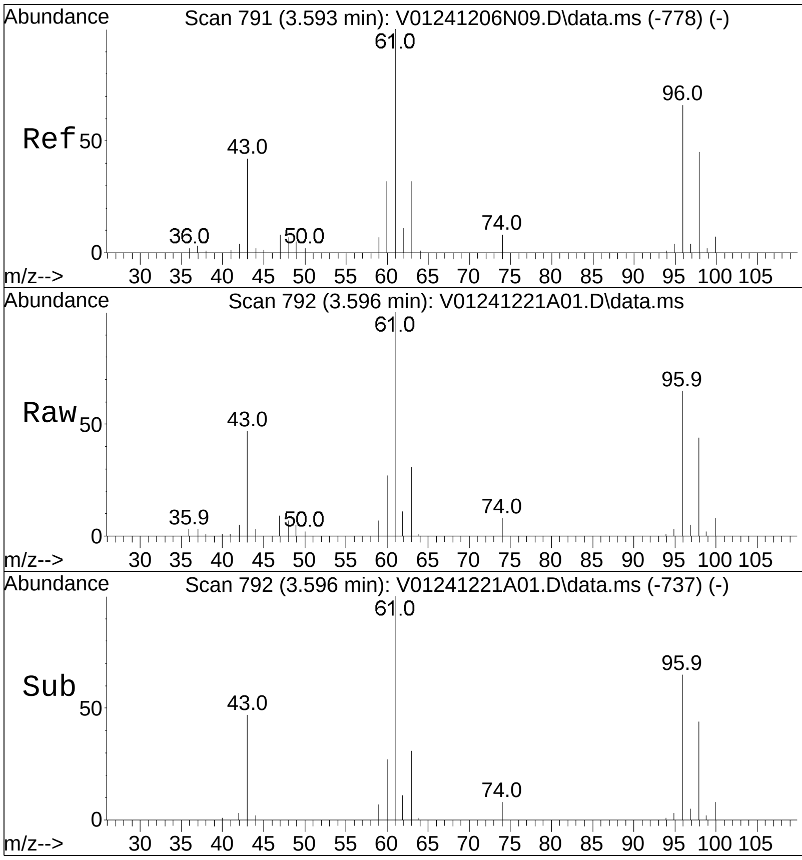
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.4 | 25.9 | 38.9 |




#18
trans-1,2-Dichloroethene
Concen: 10.12 ug/L
RT: 3.582 min Scan# 787
Delta R.T. 0.001 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 96 Resp: 52123

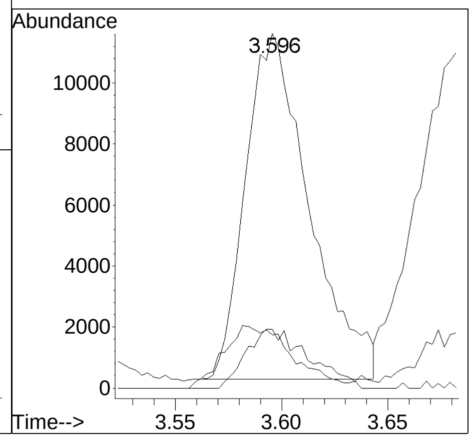
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 154.9 | 95.3 | 197.9 |
| 98 | 63.3 | 41.0 | 85.2 |
| 63 | 46.8 | 30.2 | 62.6 |

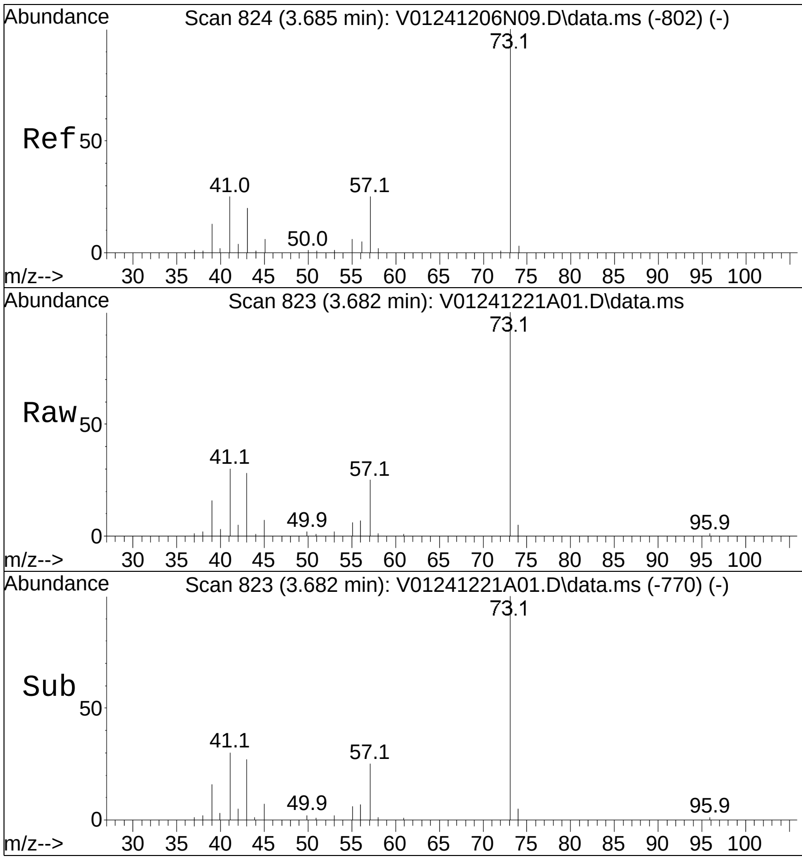



#19
Methyl acetate
Concen: 9.89 ug/L
RT: 3.596 min Scan# 792
Delta R.T. 0.003 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 43 Resp: 23562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 16.6 | 18.2 | 27.2# |
| 59 | 19.6 | 18.2 | 27.2 |

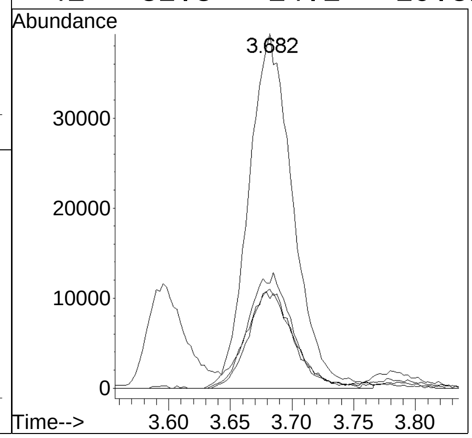


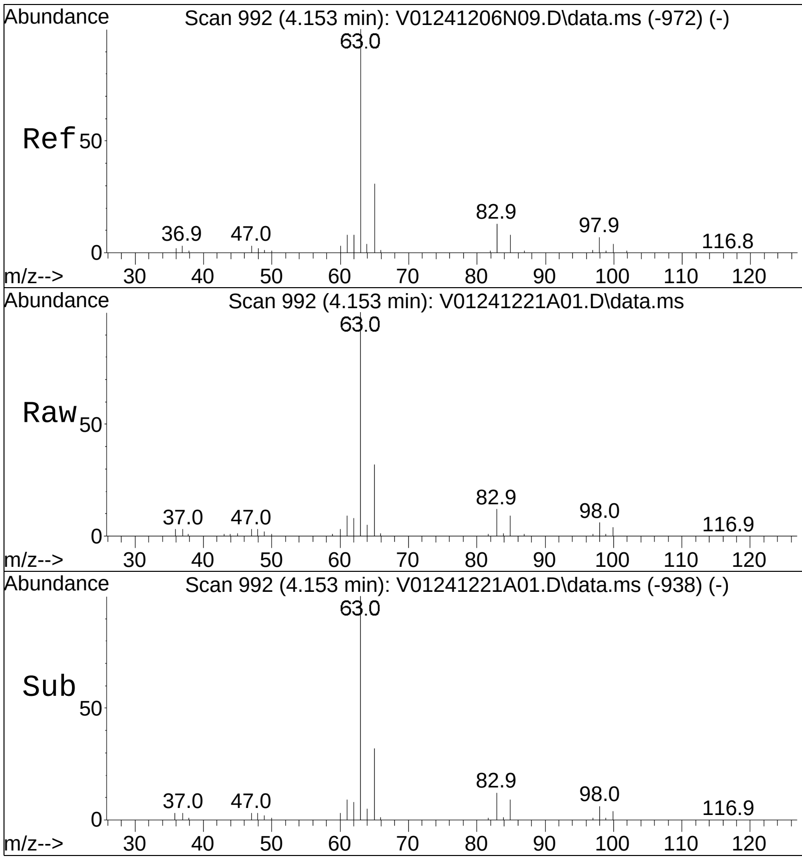



#20
Methyl tert-butyl ether
Concen: 8.97 ug/L
RT: 3.682 min Scan# 823
Delta R.T. -0.003 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 73 Resp: 98591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 27.1 | 14.8 | 30.6 |
| 43 | 27.1 | 15.5 | 32.3 |
| 41 | 32.8 | 14.1 | 29.3# |

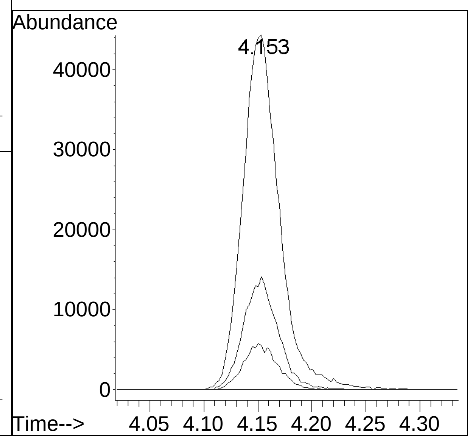




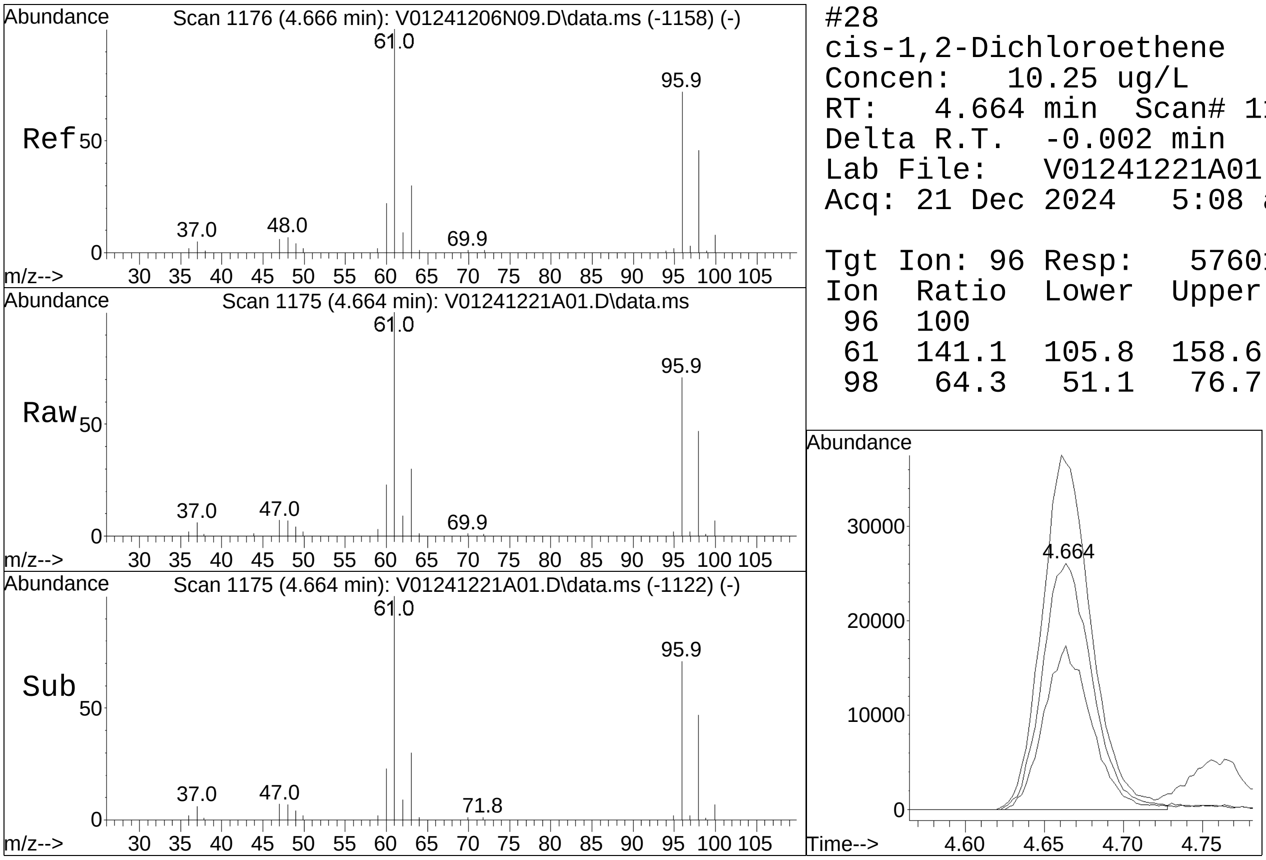

#23
1,1-Dichloroethane
Concen: 10.63 ug/L
RT: 4.153 min Scan# 992
Delta R.T. 0.000 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 63 Resp: 105116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 29.8 | 10.9 | 50.9 |
| 83 | 12.2 | 0.0 | 33.0 |



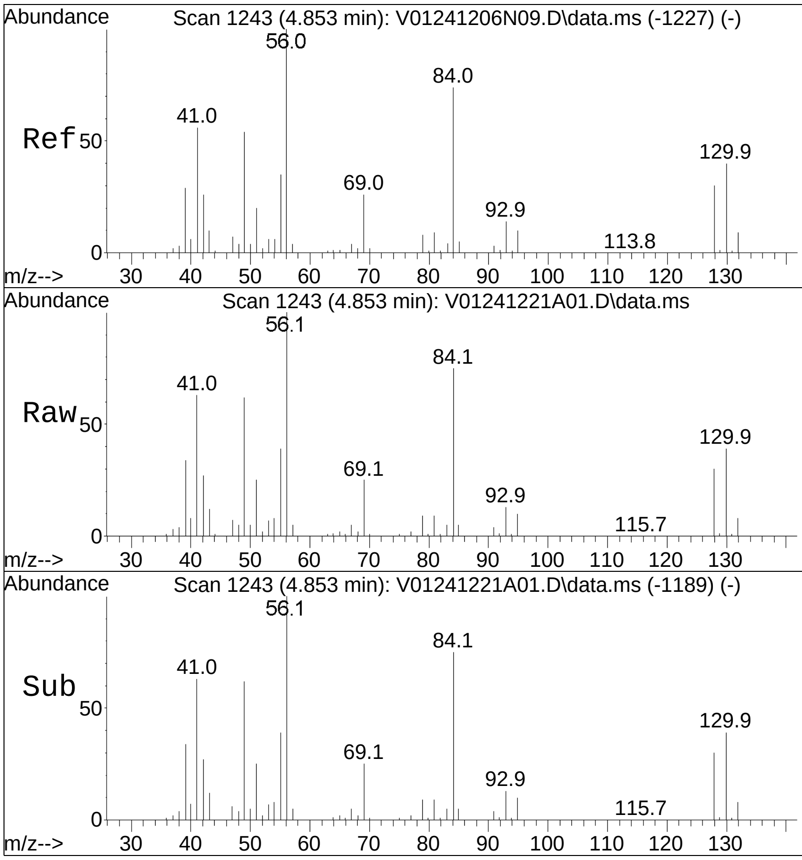

V01241221A01.D V101_241206N_8260.m Mon Dec 23 06:35:04 2024 Page 23




#28
cis-1,2-Dichloroethene
Concen: 10.25 ug/L
RT: 4.664 min Scan# 1175
Delta R.T. -0.002 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 96 Resp: 57601

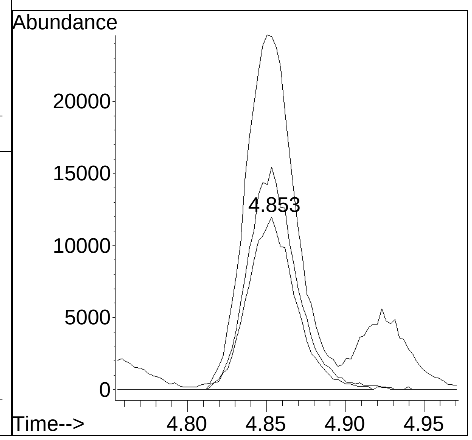
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.1 | 105.8 | 158.6 |
| 98 | 64.3 | 51.1 | 76.7 |

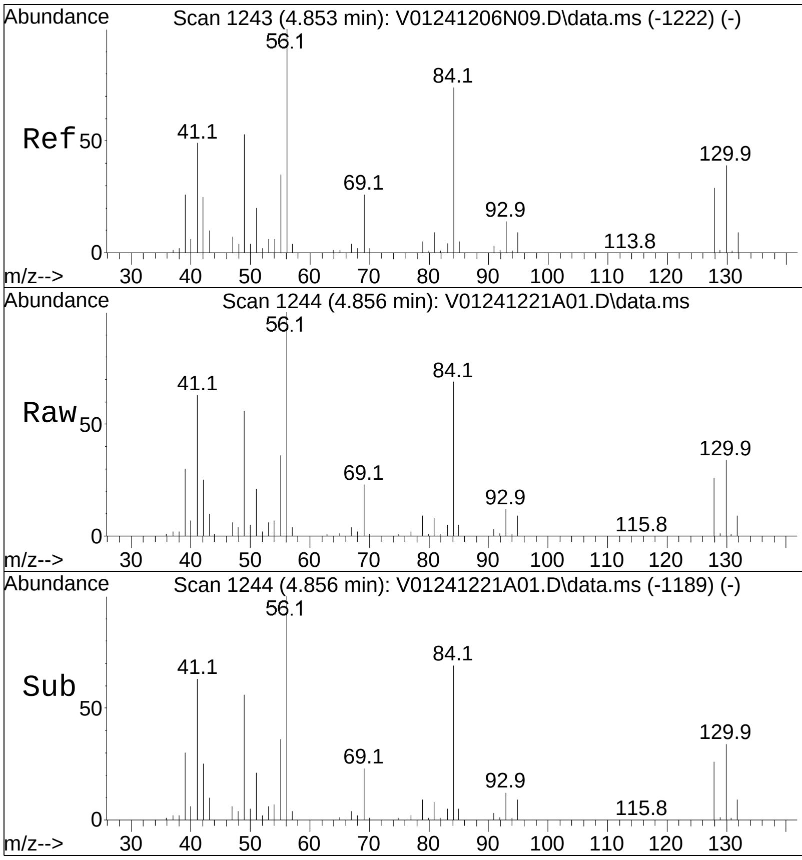



#30
Bromochloromethane
Concen: 9.82 ug/L
RT: 4.853 min Scan# 1243
Delta R.T. 0.000 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion:128 Resp: 25638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 49 | 211.6 | 140.4 | 210.6# |
| 130 | 129.9 | 103.1 | 154.7 |

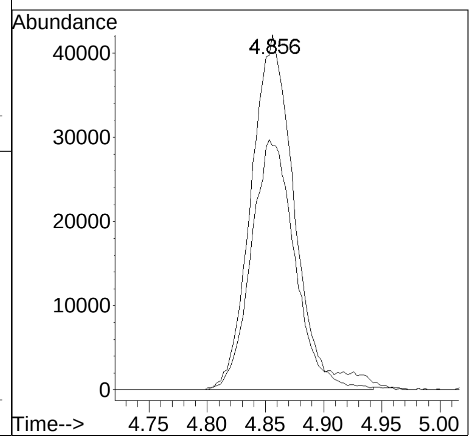


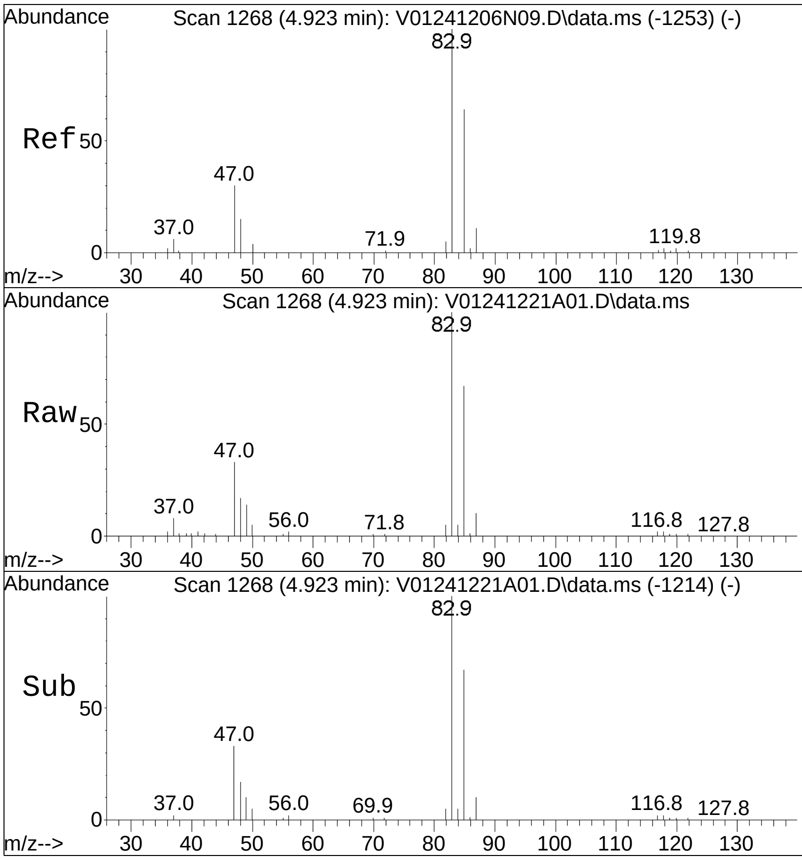



#31
Cyclohexane
Concen: 10.32 ug/L
RT: 4.856 min Scan# 1244
Delta R.T. 0.003 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 56 Resp: 107624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 84 | 71.5 | 53.6 | 111.4 |

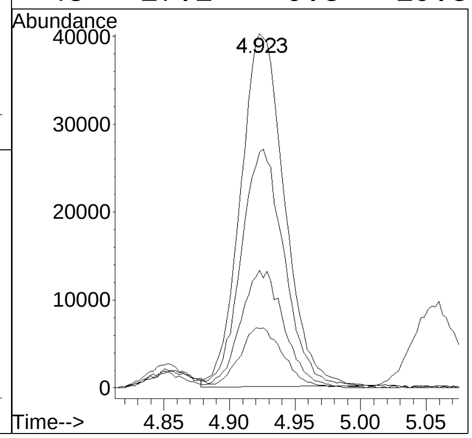


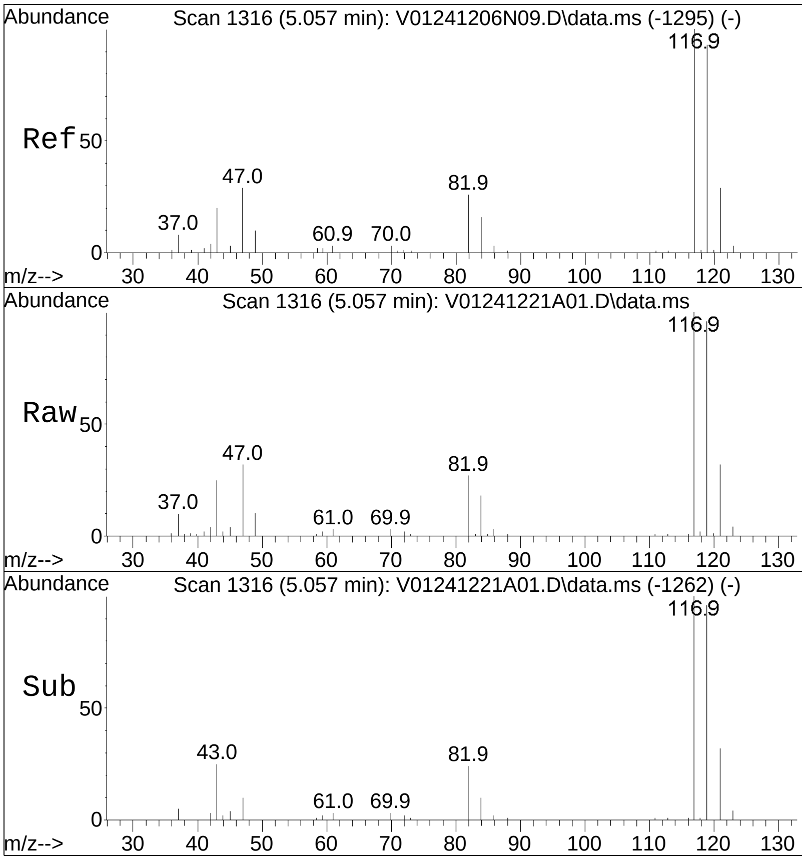



#32
Chloroform
Concen: 10.27 ug/L
RT: 4.923 min Scan# 1268
Delta R.T. -0.000 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 83 Resp: 94010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.6 | 42.3 | 87.8 |
| 47 | 33.4 | 17.8 | 37.0 |
| 48 | 17.1 | 9.3 | 19.3 |

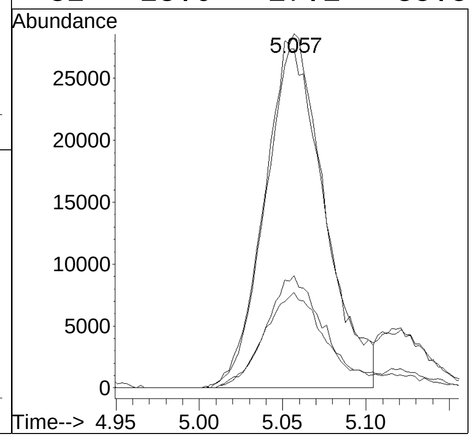


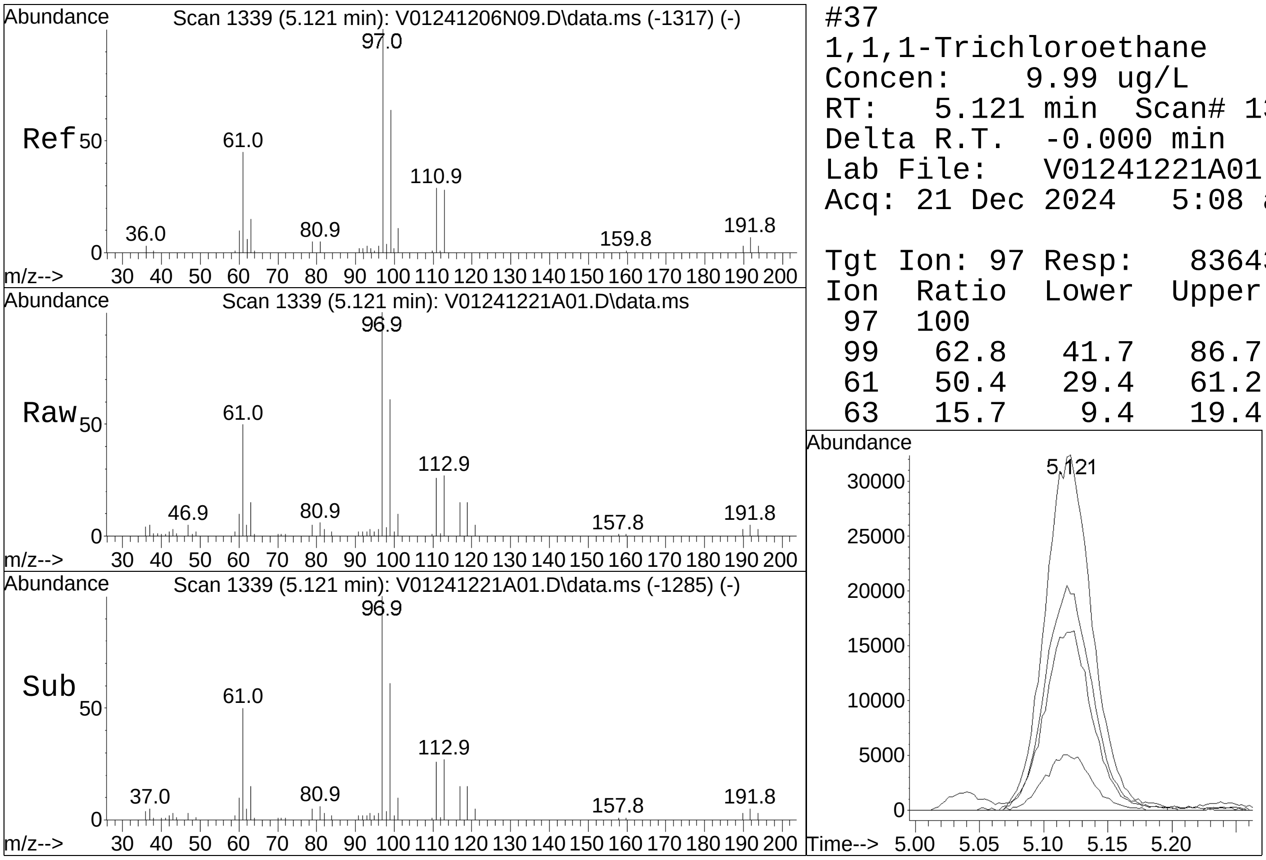



#34
Carbon tetrachloride
Concen: 9.60 ug/L
RT: 5.057 min Scan# 1316
Delta R.T. -0.000 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion:117 Resp: 72017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.6 | 62.1 | 128.9 |
| 121 | 30.8 | 19.8 | 41.0 |
| 82 | 28.0 | 17.1 | 35.5 |

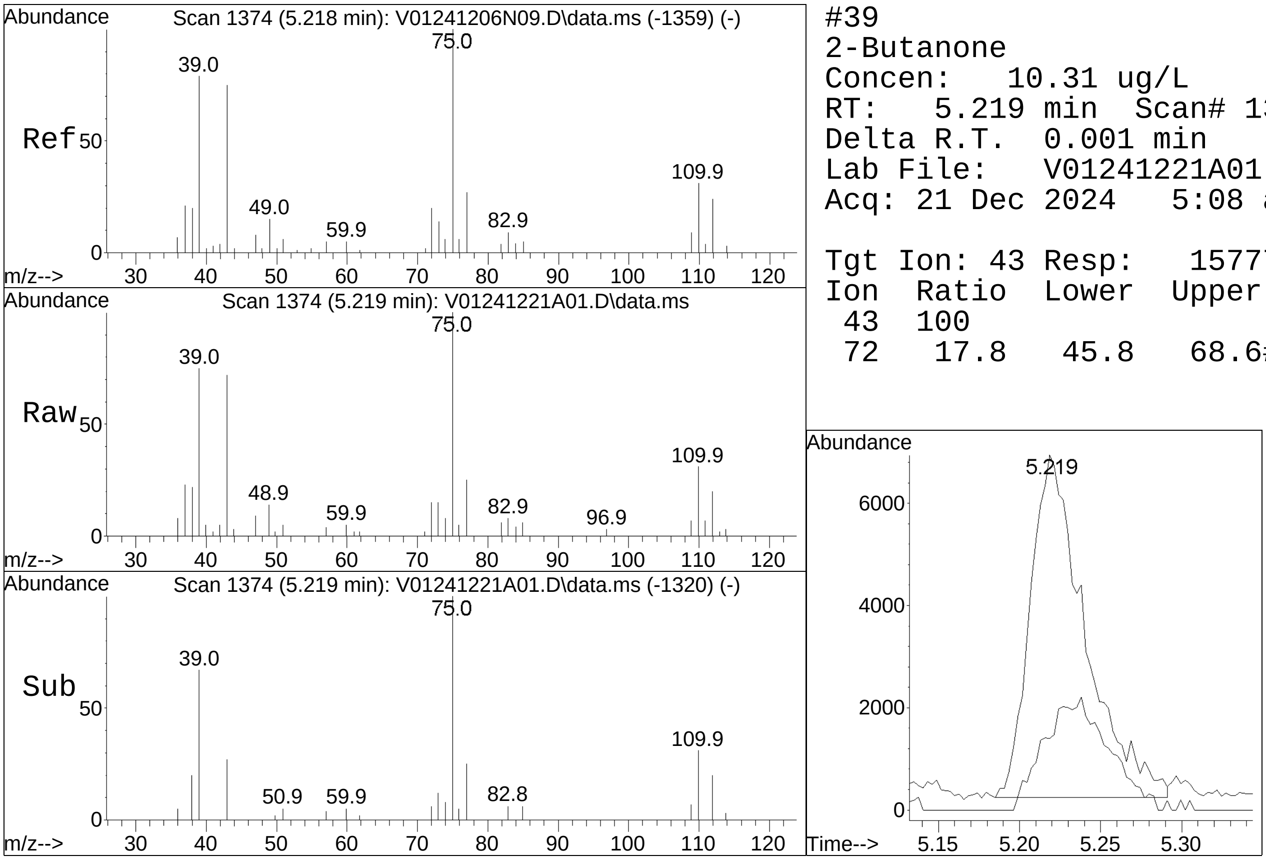





#37
1,1,1-Trichloroethane
Concen: 9.99 ug/L
RT: 5.121 min Scan# 1339
Delta R.T. -0.000 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 97 Resp: 83643

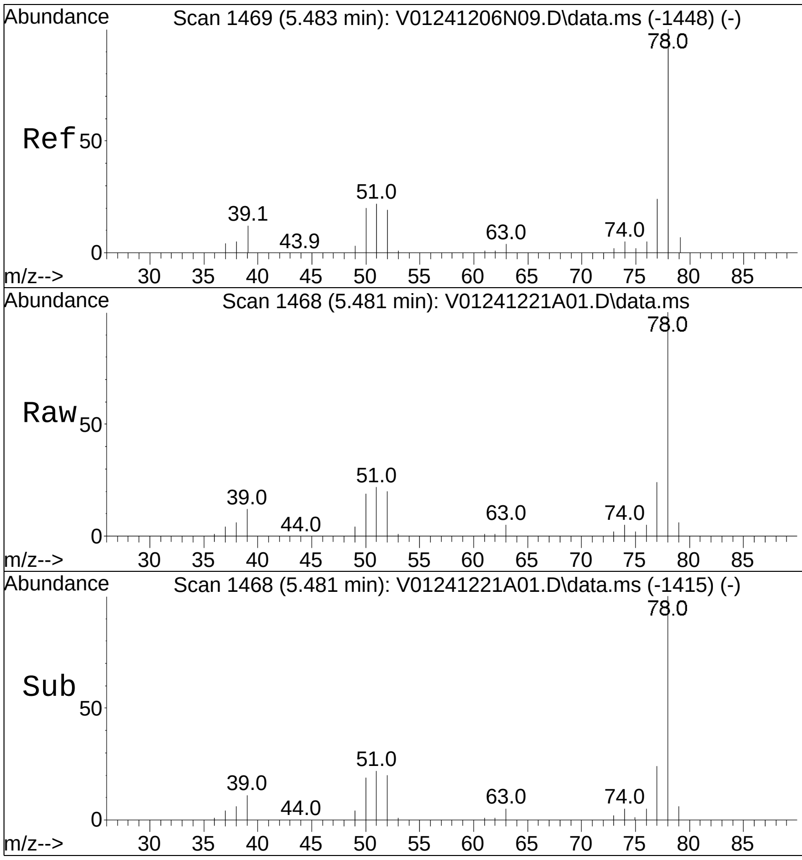
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.8 | 41.7 | 86.7 |
| 61 | 50.4 | 29.4 | 61.2 |
| 63 | 15.7 | 9.4 | 19.4 |




#39
2-Butanone
Concen: 10.31 ug/L
RT: 5.219 min Scan# 1374
Delta R.T. 0.001 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 43 Resp: 15777

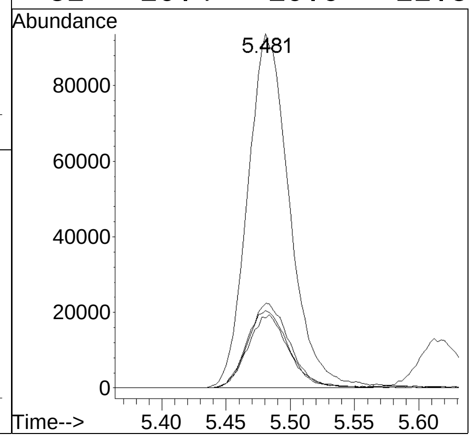
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 17.8 | 45.8 | 68.6# |

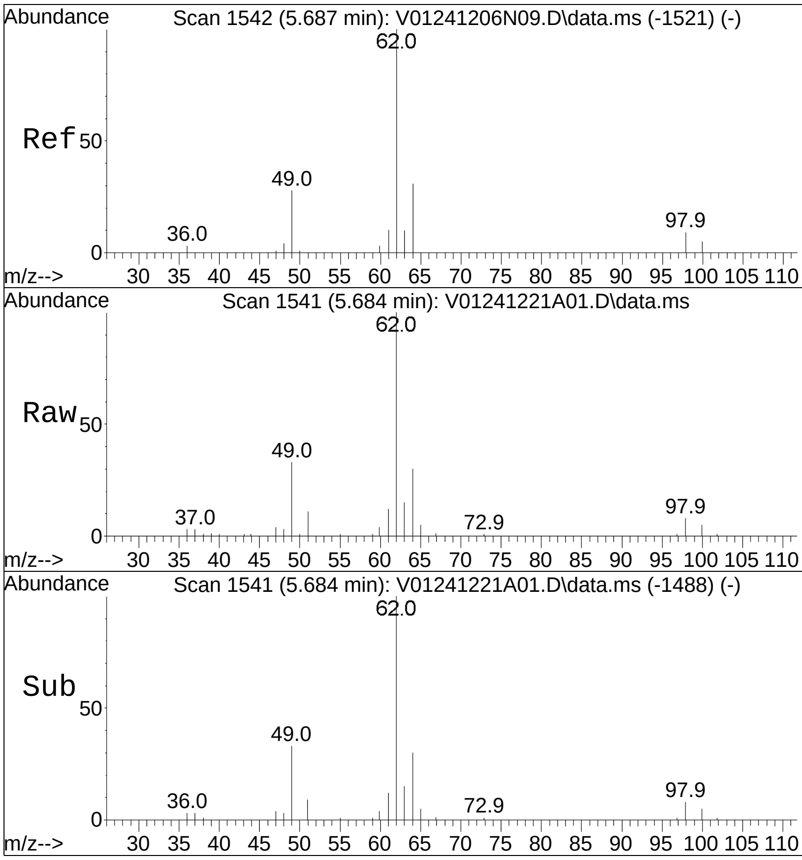



#41
Benzene
Concen: 10.56 ug/L
RT: 5.481 min Scan# 1468
Delta R.T. -0.002 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 78 Resp: 212411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.2 | 15.7 | 32.5 |
| 51 | 22.0 | 11.6 | 24.2 |
| 52 | 20.4 | 10.9 | 22.5 |

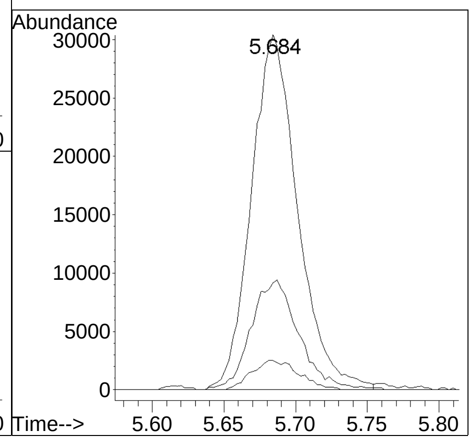


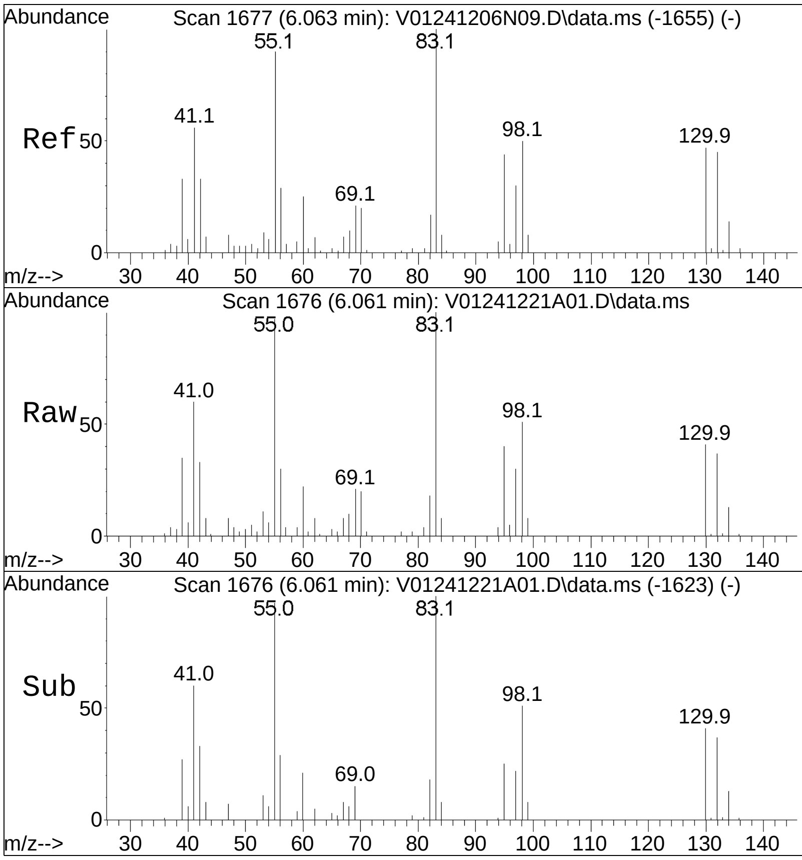



#44
1,2-Dichloroethane
Concen: 10.40 ug/L
RT: 5.684 min Scan# 1541
Delta R.T. -0.003 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 62 Resp: 68683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 12.1 | 52.1 |
| 98 | 8.5 | 0.0 | 28.8 |

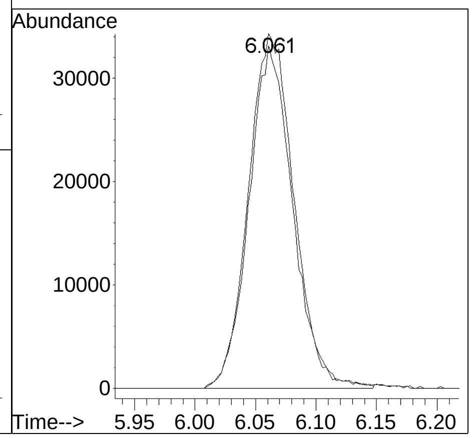


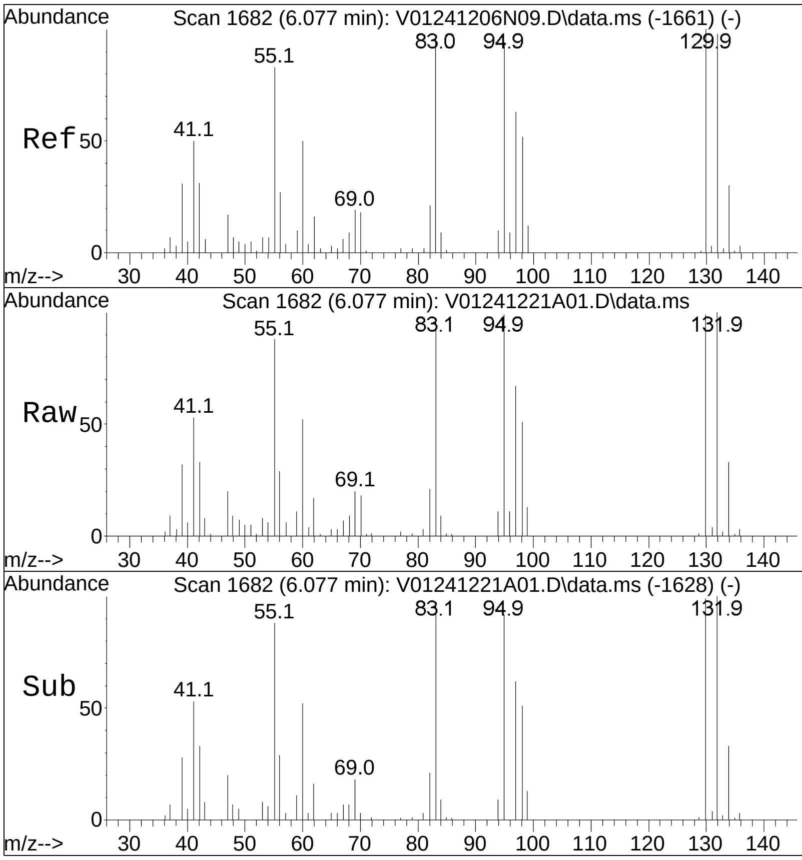



#47
Methyl cyclohexane
Concen: 9.69 ug/L
RT: 6.061 min Scan# 1676
Delta R.T. -0.002 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 83 Resp: 89910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 92.6 | 64.6 | 96.8 |

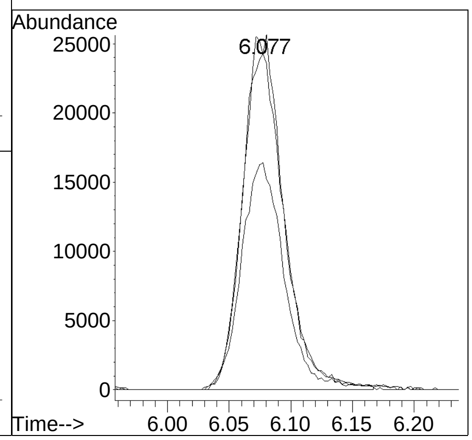


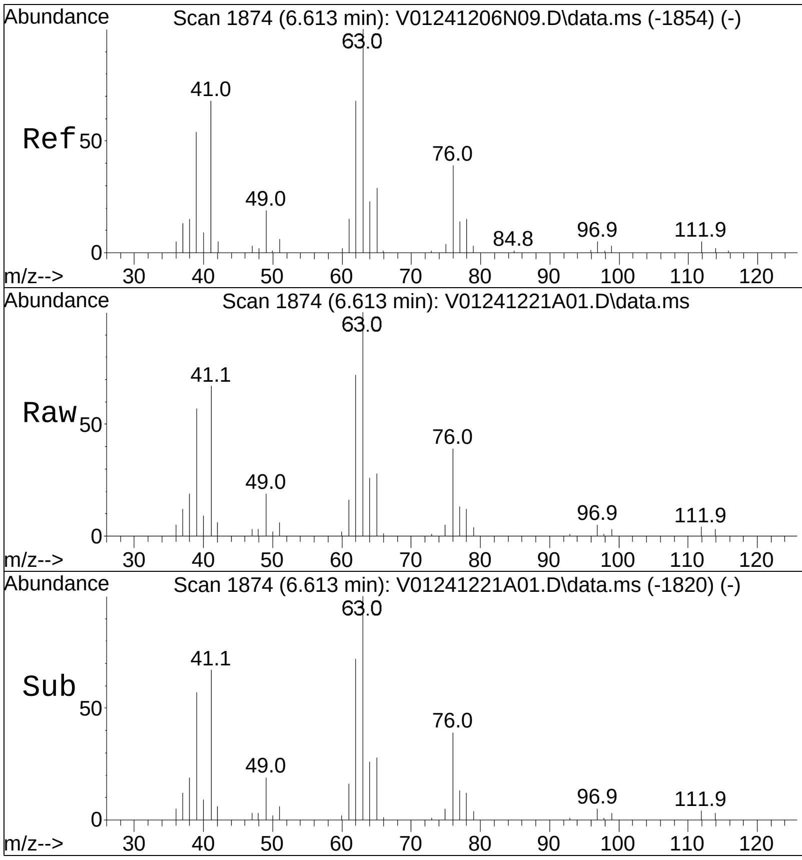



#48
Trichloroethene
Concen:   10.38 ug/L
RT:   6.077 min  Scan# 1682
Delta R.T.  0.000 min
Lab File:   V01241221A01.D
Acq: 21 Dec 2024   5:08 am

Tgt Ion: 95 Resp:   58081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 97 | 67.4 | 54.4 | 81.6 |
| 130 | 103.0 | 80.6 | 120.8 |

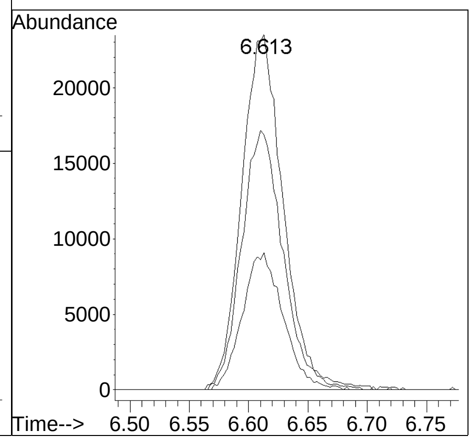


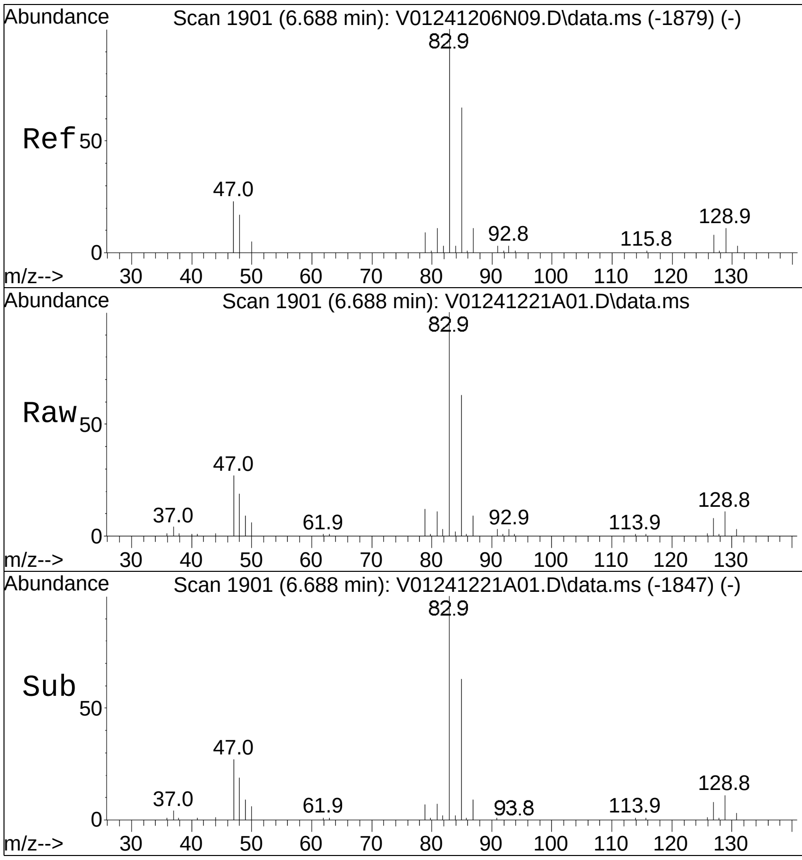



#51
1,2-Dichloropropane
Concen: 10.69 ug/L
RT: 6.613 min Scan# 1874
Delta R.T. -0.000 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 63 Resp: 57545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 62 | 73.1 | 57.2 | 85.8 |
| 76 | 37.8 | 33.6 | 50.4 |

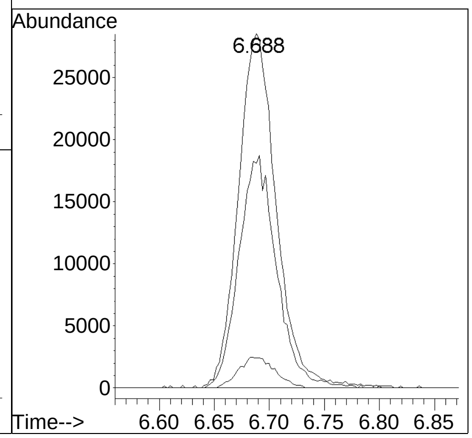


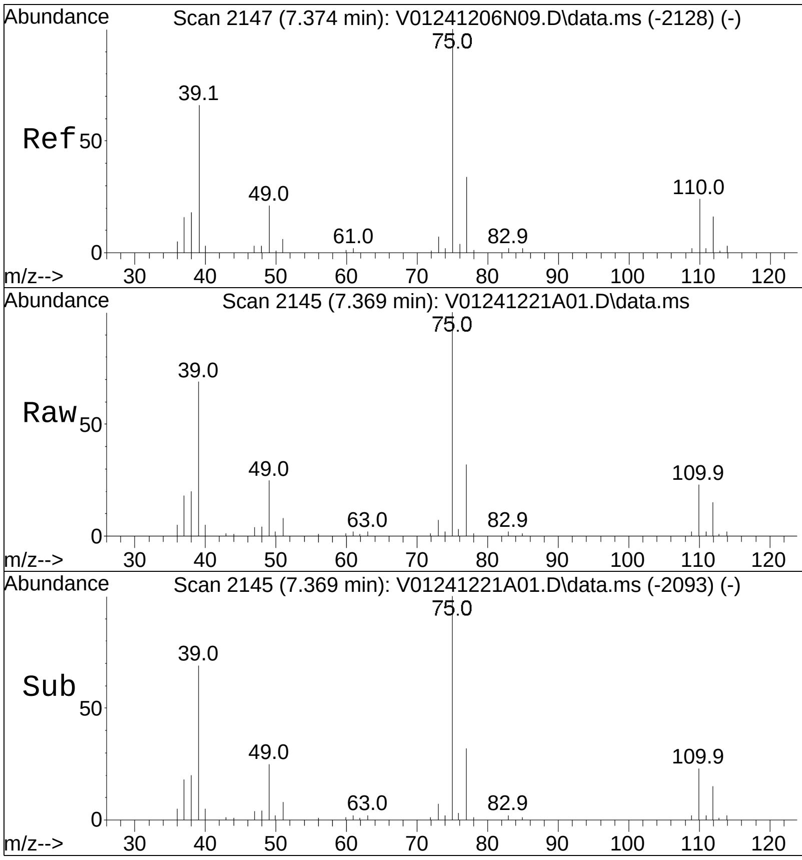



#54
Bromodichloromethane
Concen: 9.90 ug/L
RT: 6.688 min Scan# 1901
Delta R.T. 0.000 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 83 Resp: 68757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.3 | 52.2 | 78.4 |
| 127 | 8.4 | 6.9 | 10.3 |

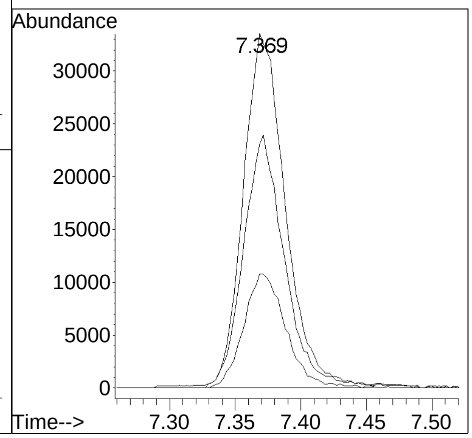


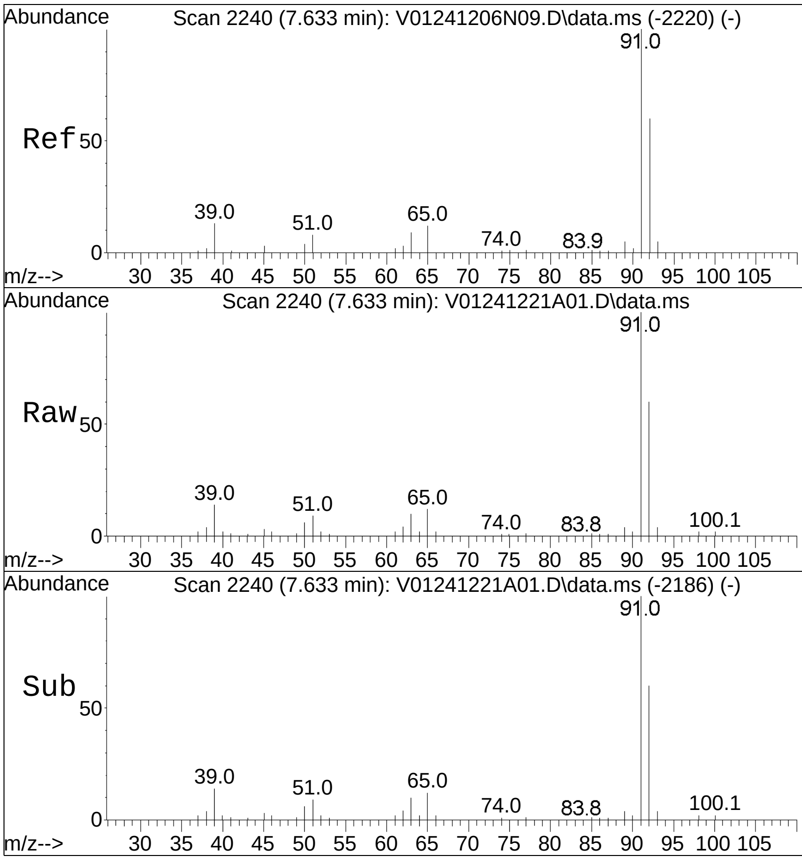



#58
cis-1,3-Dichloropropene
Concen: 9.45 ug/L
RT: 7.369 min Scan# 2145
Delta R.T. -0.005 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 75 Resp: 75134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.2 | 25.1 | 37.7 |
| 39 | 67.6 | 42.6 | 63.8# |

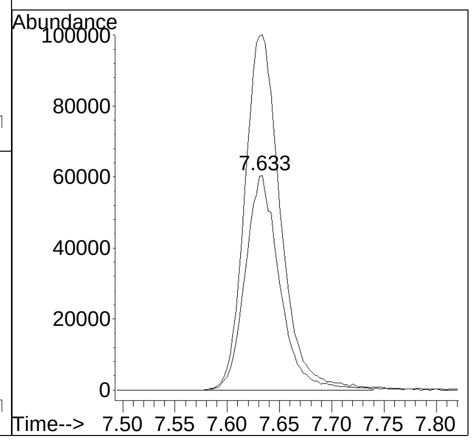


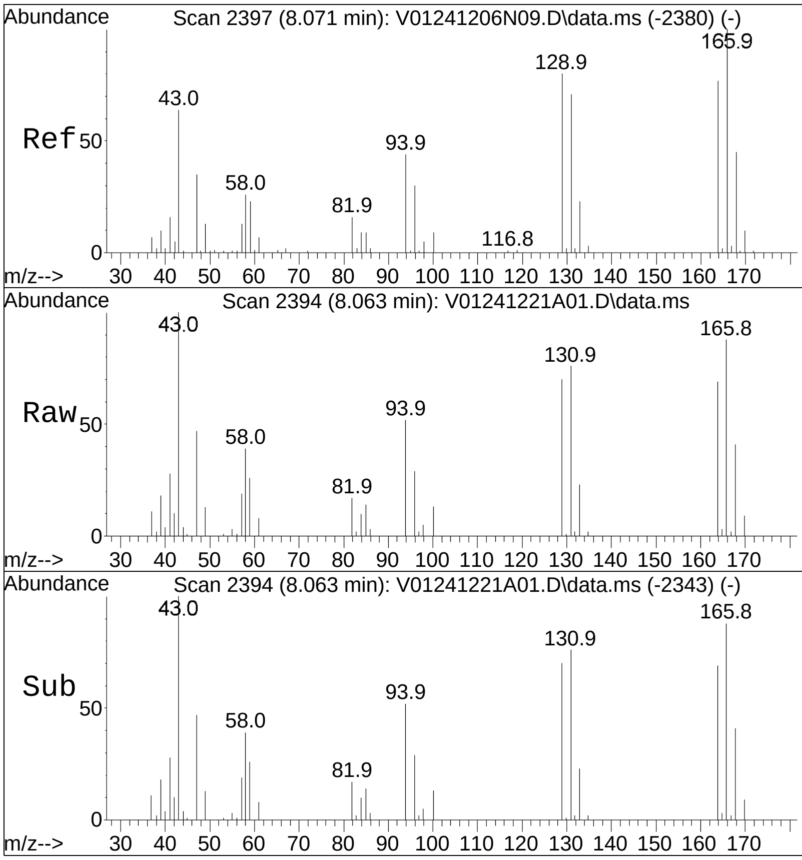



#61
Toluene
Concen: 10.50 ug/L
RT: 7.633 min Scan# 2240
Delta R.T. 0.000 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 92 Resp: 138607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.8 | 137.5 | 206.3 |

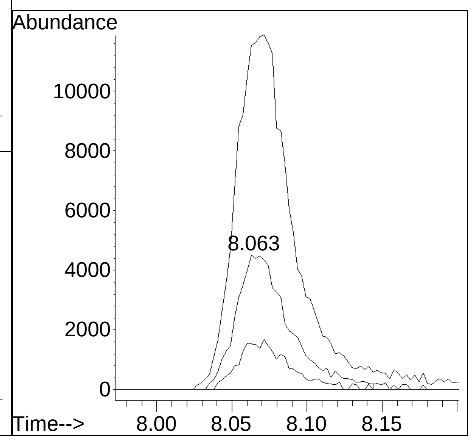





#62
4-Methyl-2-pentanone
Concen: 9.87 ug/L
RT: 8.063 min Scan# 2394
Delta R.T. -0.008 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 58 Resp: 11361

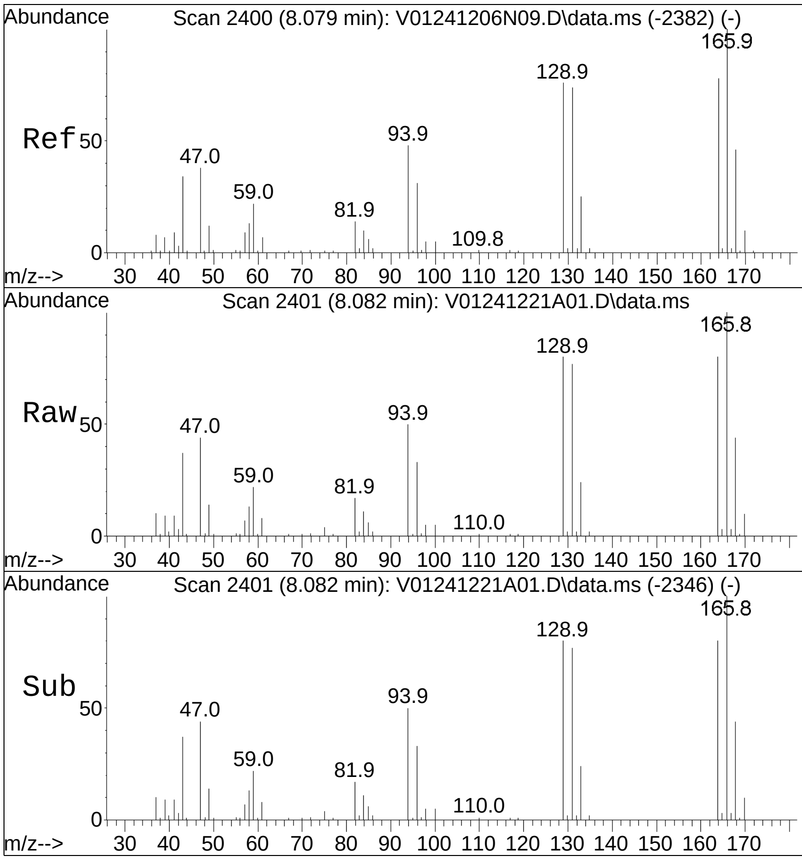
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 100 | 15.5 | 31.8 | 47.6# |
| 43 | 274.6 | 212.5 | 318.7 |

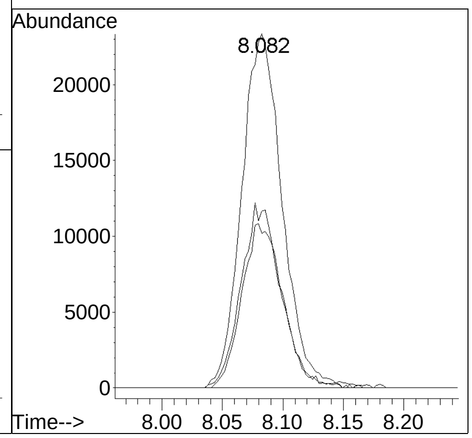


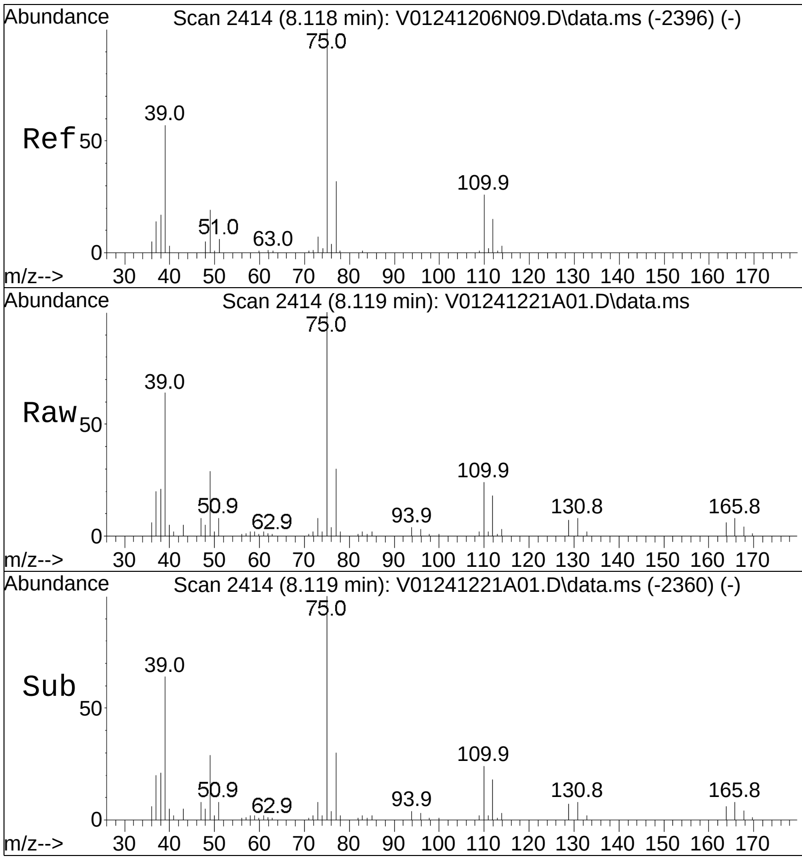
#63
Tetrachloroethene
Concen: 9.90 ug/L
RT: 8.082 min Scan# 2401
Delta R.T. 0.003 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion:166 Resp: 54904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 168 | 46.7 | 27.4 | 67.4 |
| 94 | 50.7 | 24.8 | 64.8 |



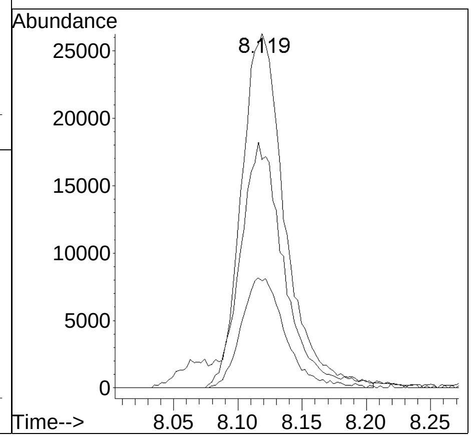



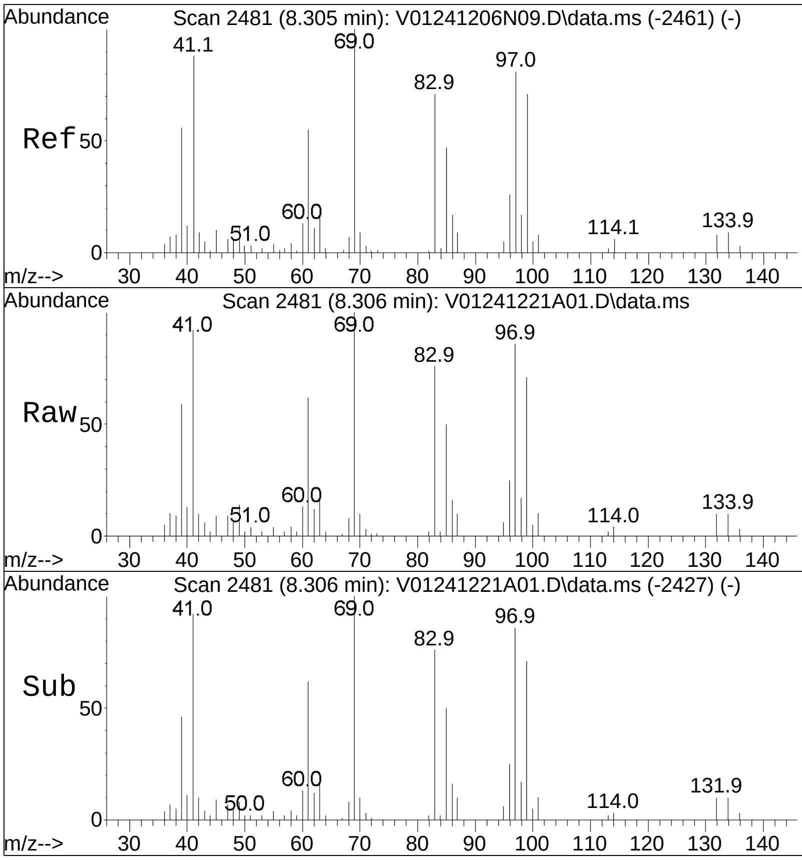



#65
trans-1,3-Dichloropropene
Concen: 9.59 ug/L
RT: 8.119 min Scan# 2414
Delta R.T. 0.001 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 75 Resp: 62217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 11.8 | 51.8 |
| 39 | 63.3 | 30.2 | 70.2 |

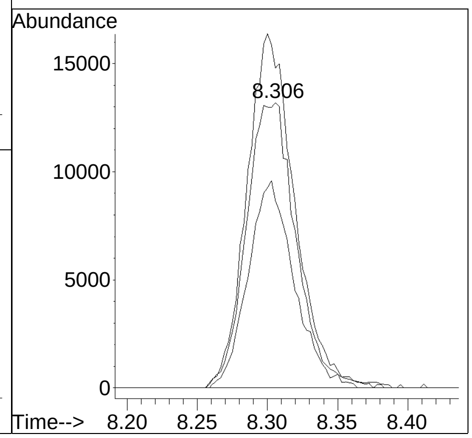


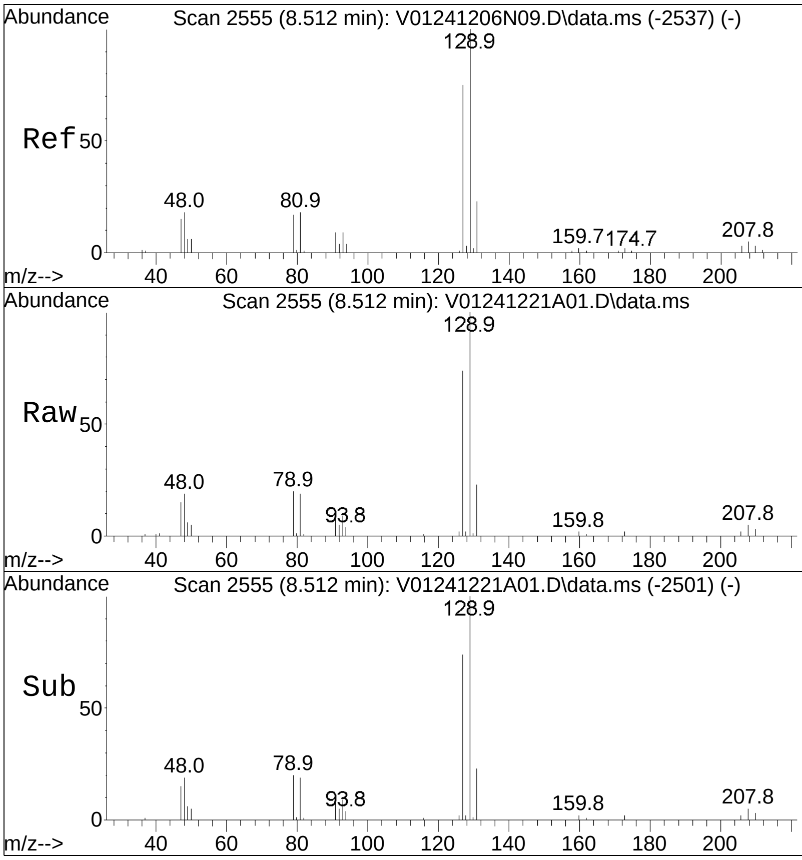



#68
1,1,2-Trichloroethane
Concen: 10.71 ug/L
RT: 8.306 min Scan# 2481
Delta R.T. 0.001 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 83 Resp: 32755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 97 | 119.0 | 96.7 | 136.7 |
| 85 | 67.4 | 45.3 | 85.3 |

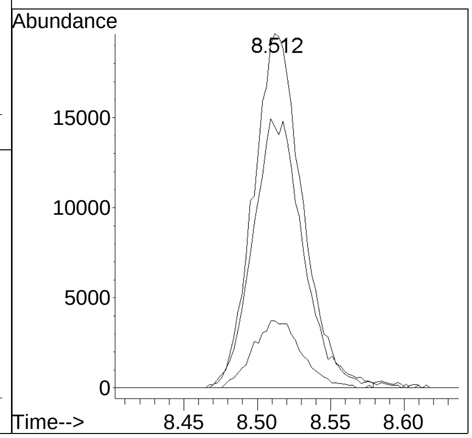


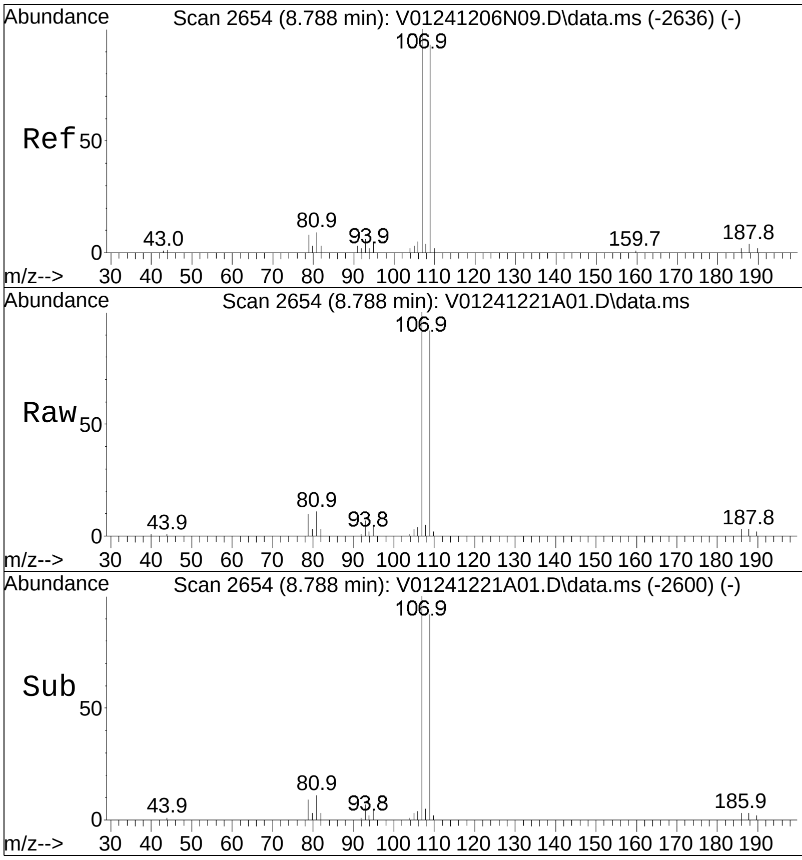



#69
Chlorodibromomethane
Concen: 9.78 ug/L
RT: 8.512 min Scan# 2555
Delta R.T. -0.000 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion:129 Resp: 45943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 81 | 19.0 | 0.0 | 37.9 |
| 127 | 78.0 | 56.6 | 96.6 |

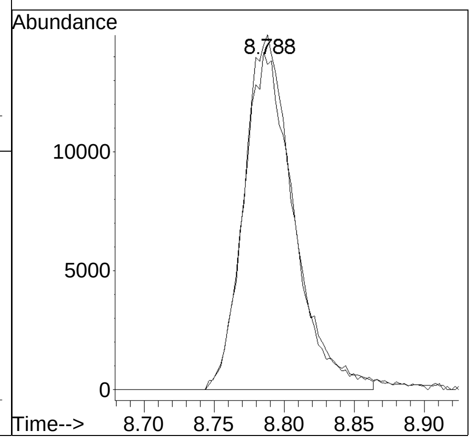


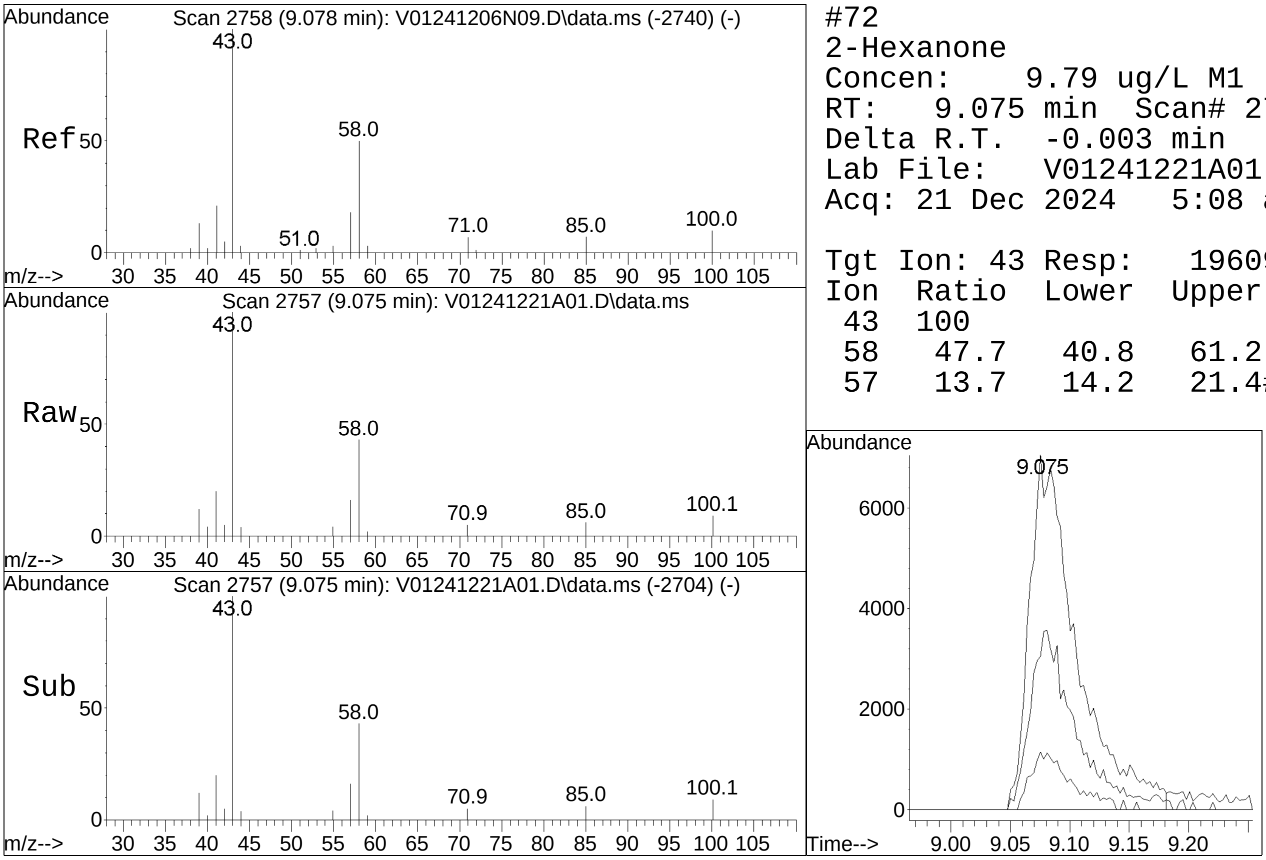



#71
1,2-Dibromoethane
Concen: 10.46 ug/L
RT: 8.788 min Scan# 2654
Delta R.T. -0.000 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion:107 Resp: 37301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.9 | 75.6 | 113.4 |

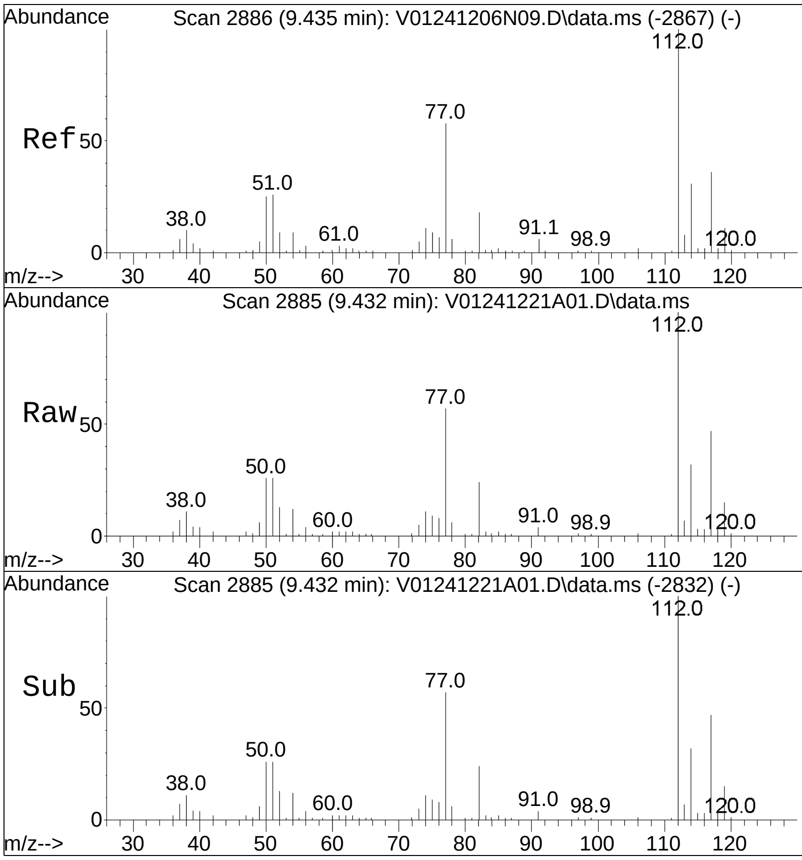





#72
2-Hexanone
Concen: 9.79 ug/L M1
RT: 9.075 min Scan# 2757
Delta R.T. -0.003 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 43 Resp: 19609

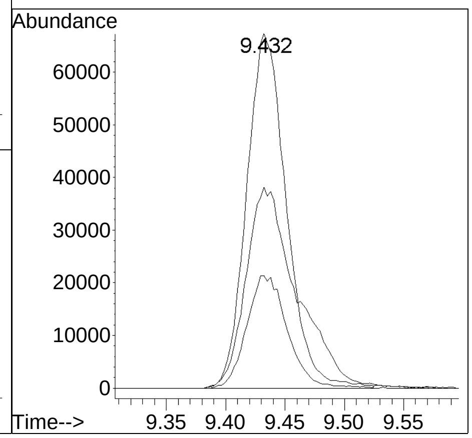
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 47.7 | 40.8 | 61.2 |
| 57 | 13.7 | 14.2 | 21.4# |

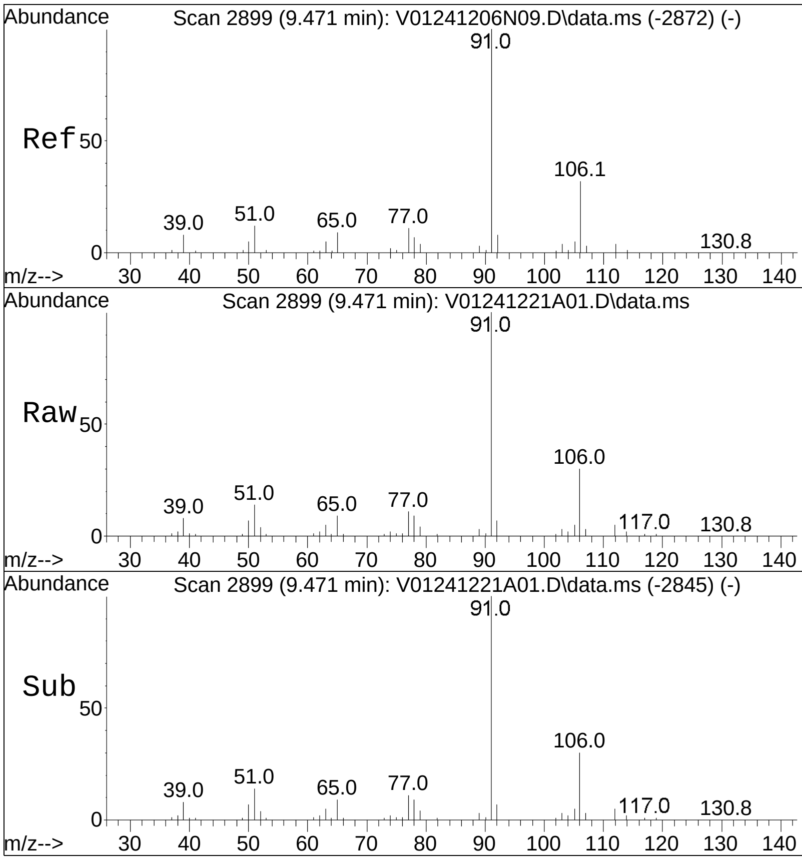



#73
Chlorobenzene
Concen: 10.38 ug/L
RT: 9.432 min Scan# 2885
Delta R.T. -0.003 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion:112 Resp: 156665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 72.8 | 59.8 | 89.6 |
| 114 | 32.4 | 25.4 | 38.2 |

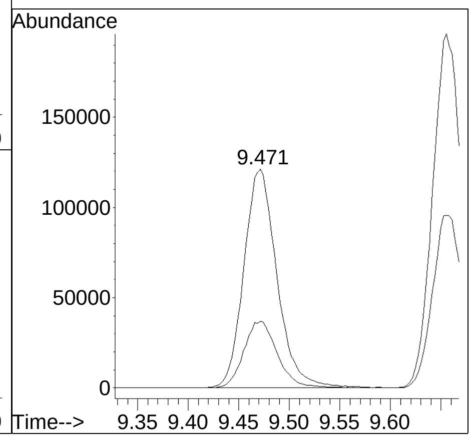





#74
Ethylbenzene
Concen:   10.64 ug/L
RT:   9.471 min  Scan# 2899
Delta R.T.  0.000 min
Lab File:   V01241221A01.D
Acq: 21 Dec 2024   5:08 am

Tgt Ion: 91 Resp:  276947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.9 | 24.7 | 37.1 |

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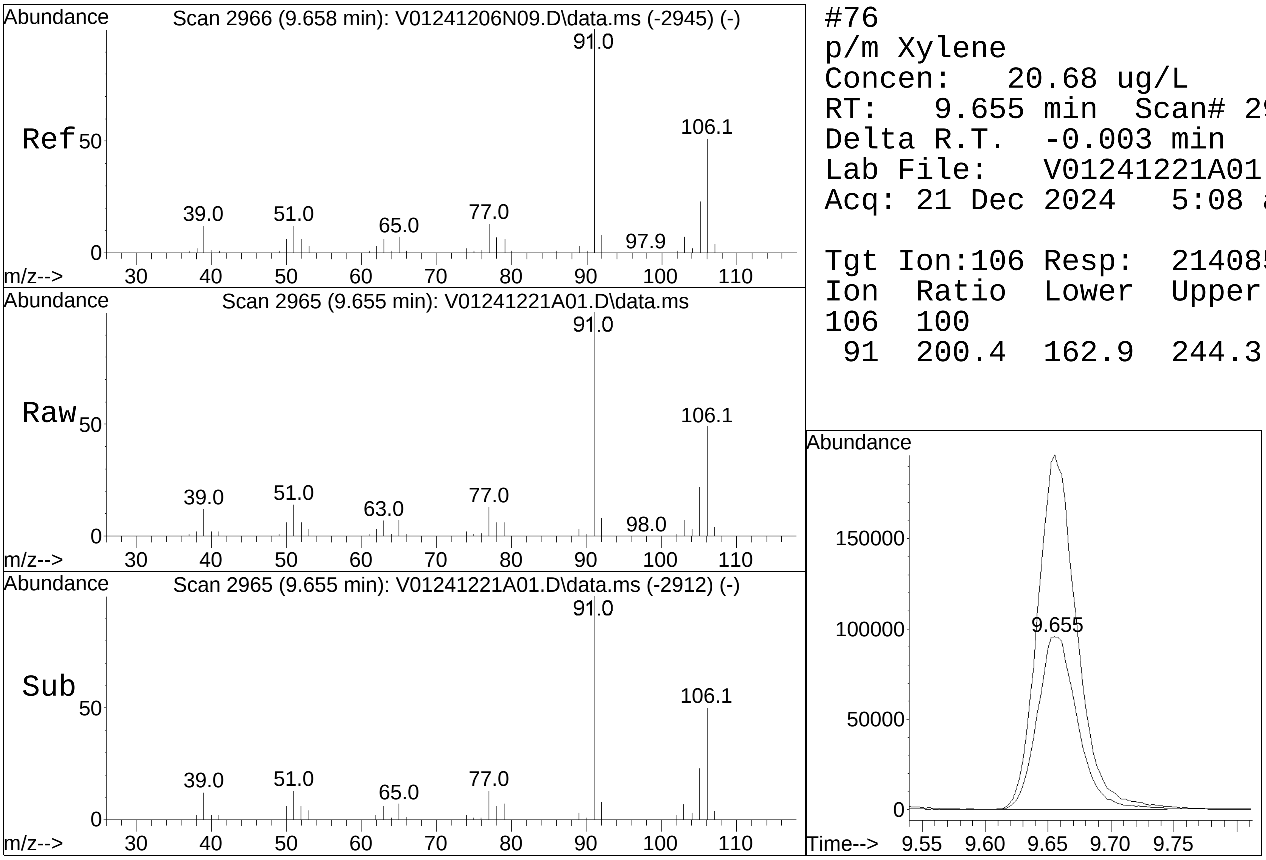
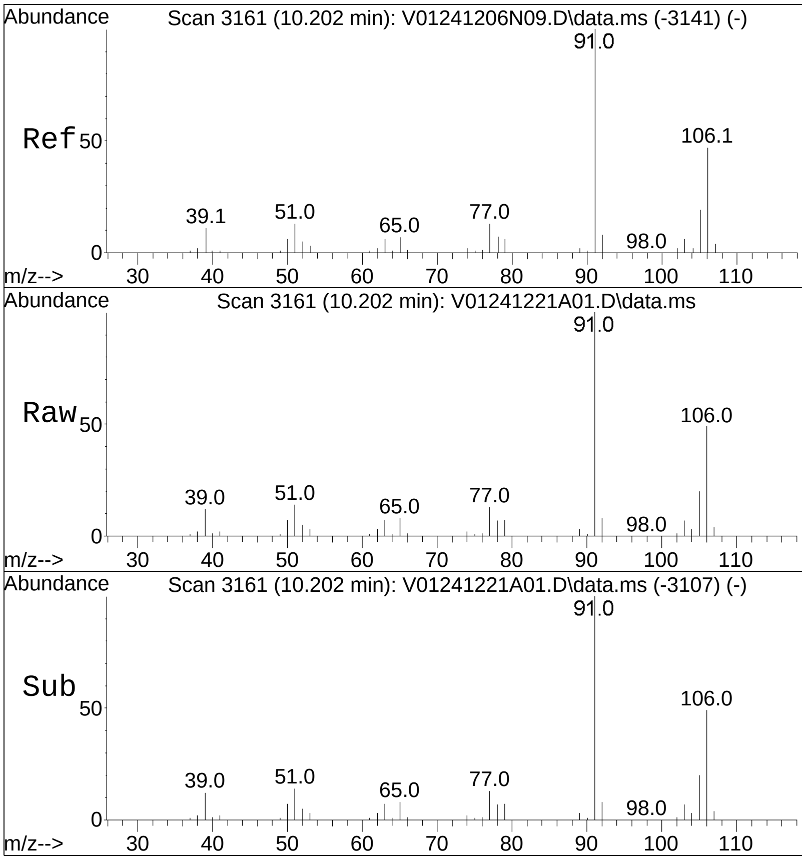



#76
p/m Xylene
Concen: 20.68 ug/L
RT: 9.655 min Scan# 2965
Delta R.T. -0.003 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion:106 Resp: 214085

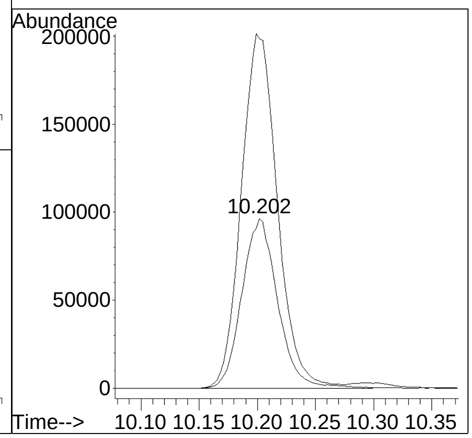
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 200.4 | 162.9 | 244.3 |

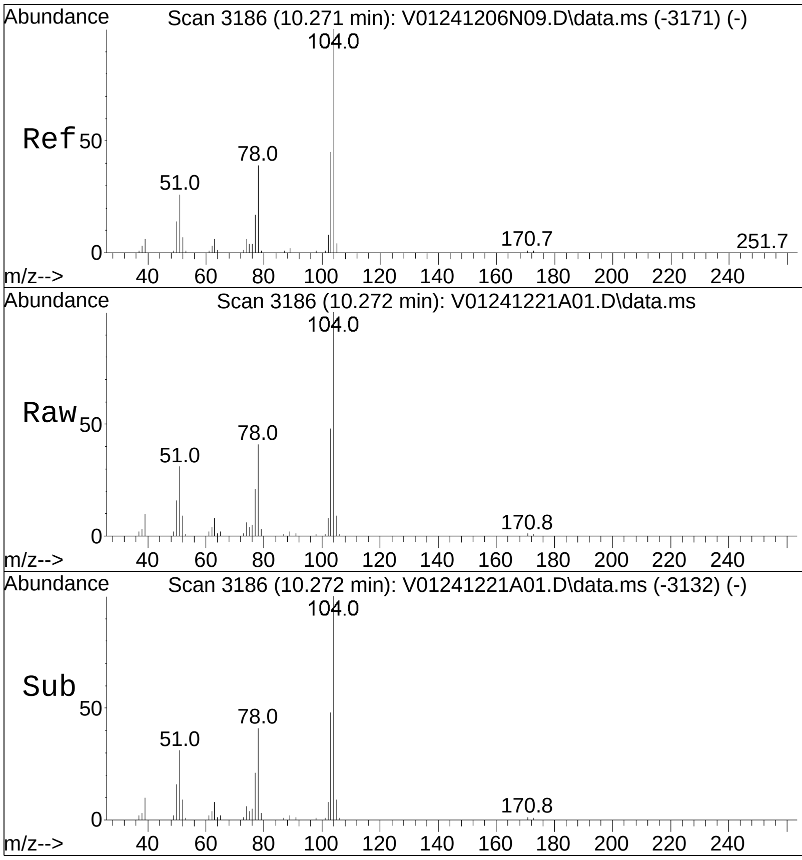



#77
o Xylene
Concen: 20.77 ug/L
RT: 10.202 min Scan# 3161
Delta R.T. -0.000 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion:106 Resp: 205066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 211.2 | 171.2 | 256.8 |

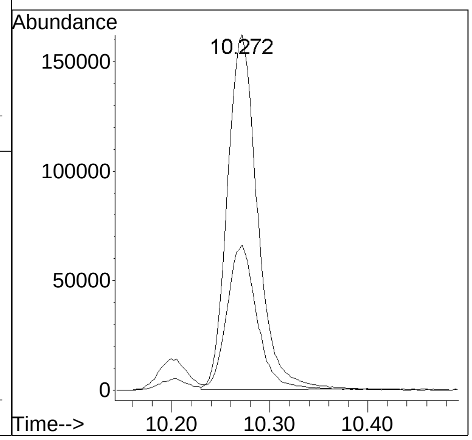


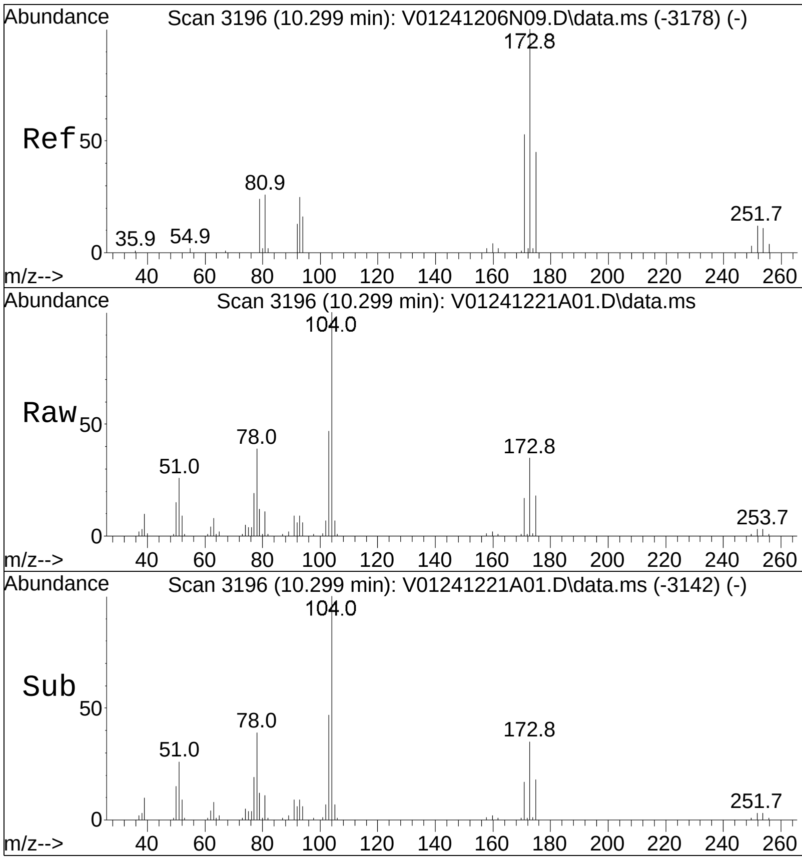



#78
Styrene
Concen: 21.31 ug/L
RT: 10.272 min Scan# 3186
Delta R.T. 0.001 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion:104 Resp: 348293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 40.5 | 34.2 | 51.4 |

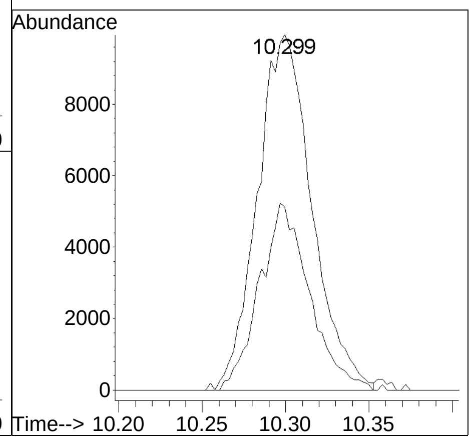


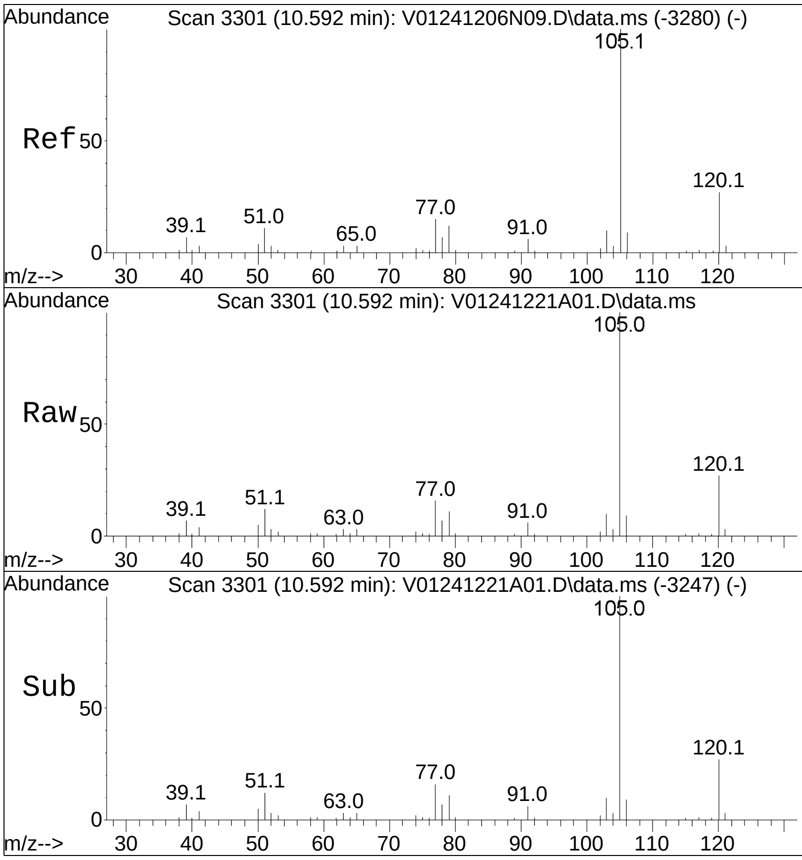



#80
Bromoform
Concen: 9.10 ug/L
RT: 10.299 min Scan# 3196
Delta R.T. 0.000 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion:173 Resp: 22670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.9 | 28.6 | 68.6 |

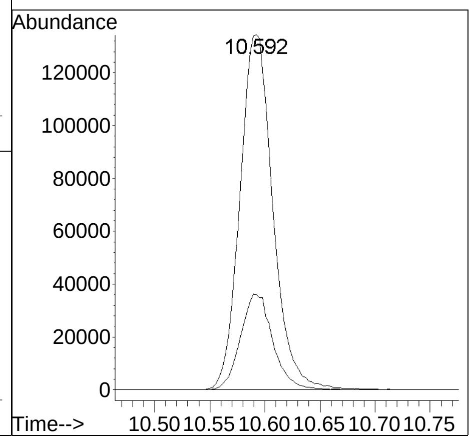


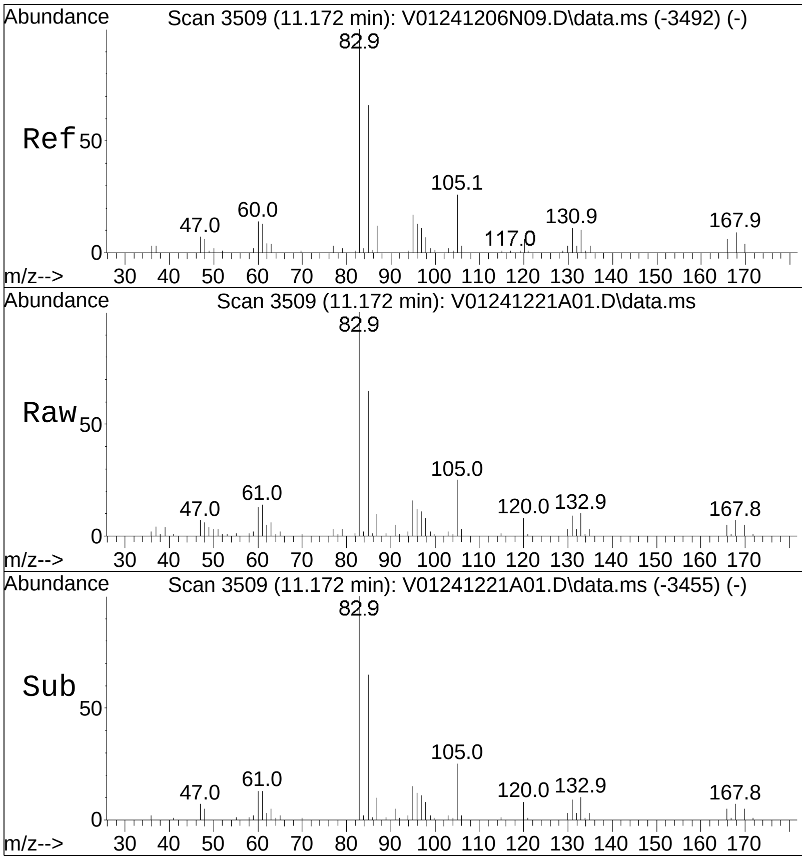



#82
Isopropylbenzene
Concen: 10.47 ug/L
RT: 10.592 min Scan# 3301
Delta R.T. 0.000 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion:105 Resp: 280675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 7.3 | 47.3 |

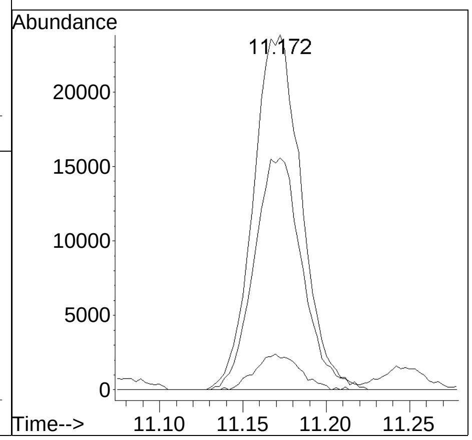





#87
1,1,2,2-Tetrachloroethane
Concen: 11.59 ug/L
RT: 11.172 min Scan# 3509
Delta R.T. 0.000 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion: 83 Resp: 47979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.5 | 0.0 | 30.1 |
| 85 | 65.8 | 45.8 | 85.8 |

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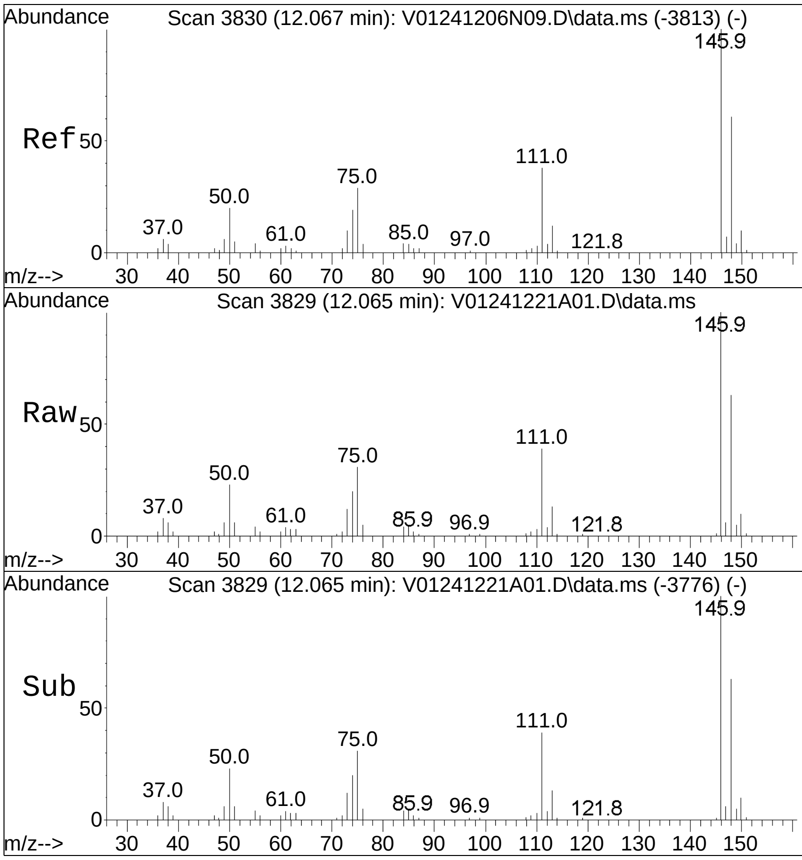
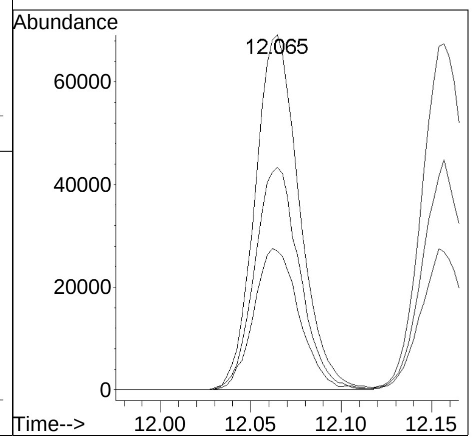
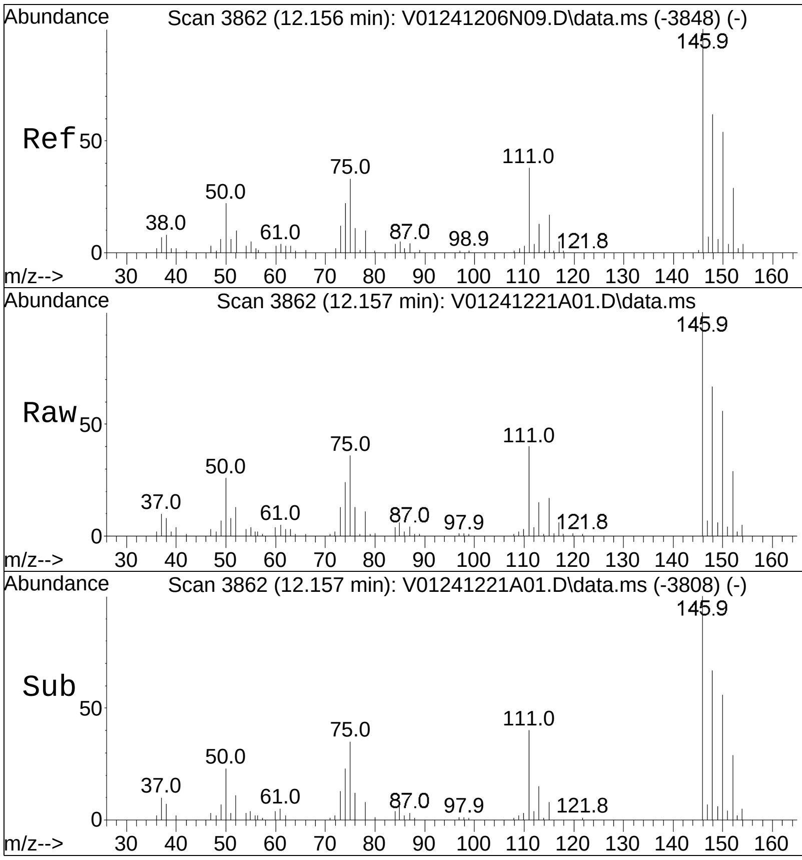



#100
1,3-Dichlorobenzene
Concen: 10.60 ug/L
RT: 12.065 min Scan# 3829
Delta R.T. -0.002 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion:146 Resp: 118346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.8 | 25.9 | 53.9 |
| 148 | 63.3 | 41.5 | 86.3 |

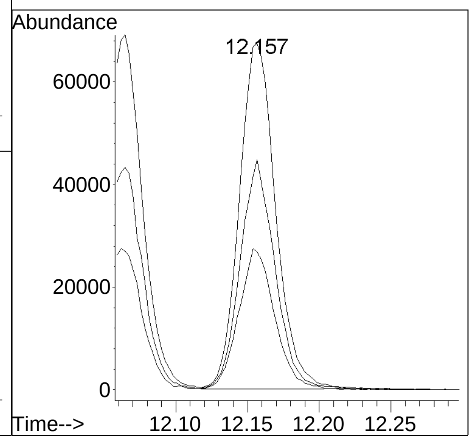


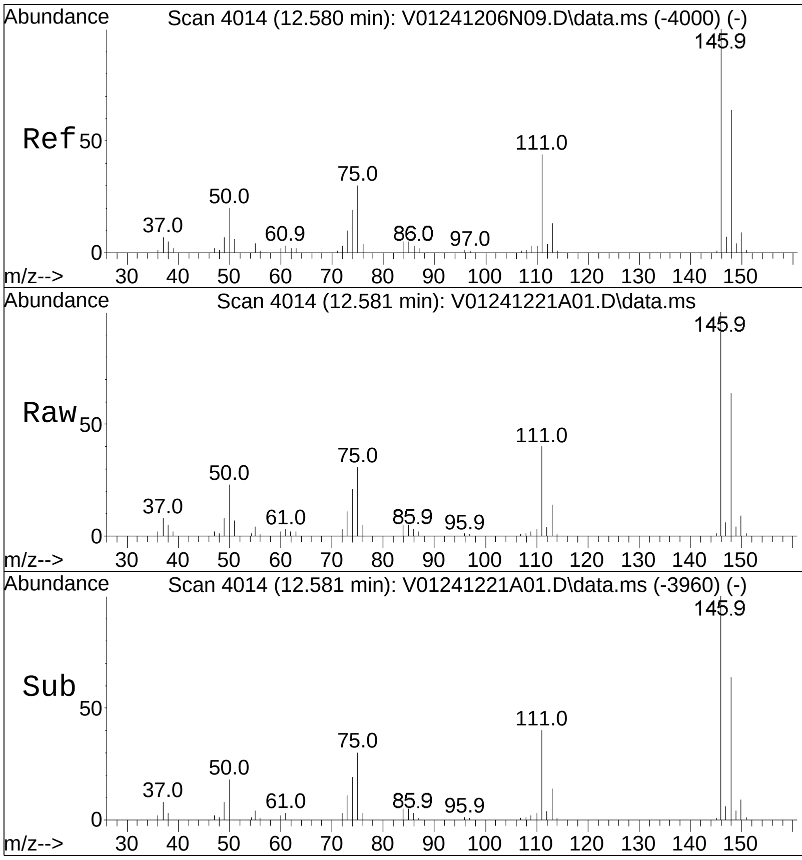



#101
1,4-Dichlorobenzene
Concen: 10.52 ug/L
RT: 12.157 min Scan# 3862
Delta R.T. 0.001 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion:146 Resp: 118795

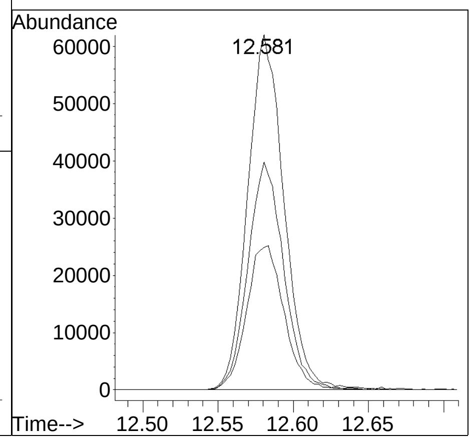
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.7 | 31.7 | 47.5 |
| 148 | 64.4 | 51.5 | 77.3 |

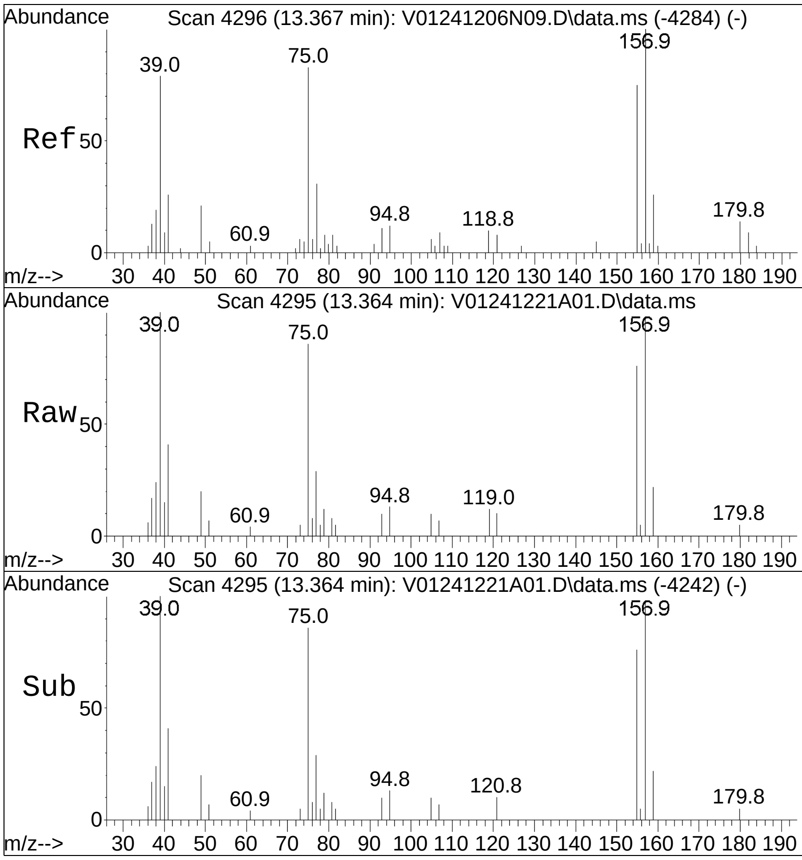





#104
1,2-Dichlorobenzene
Concen: 10.74 ug/L
RT: 12.581 min Scan# 4014
Delta R.T. 0.001 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

| | | | |
|---|---|---|---|
| Tgt Ion:146 | Resp: | 104249 | |
| Ion | Ratio | Lower | Upper |
| 146 | 100 | | |
| 111 | 42.0 | 26.8 | 55.8 |
| 148 | 63.2 | 41.6 | 86.4 |

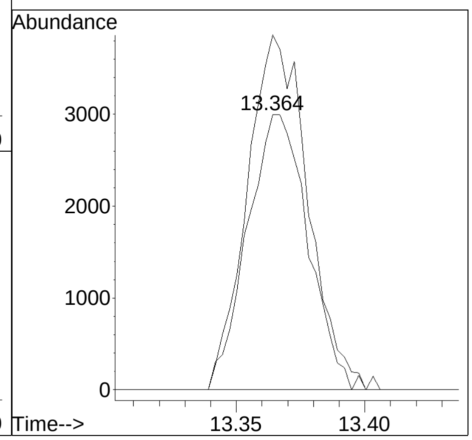


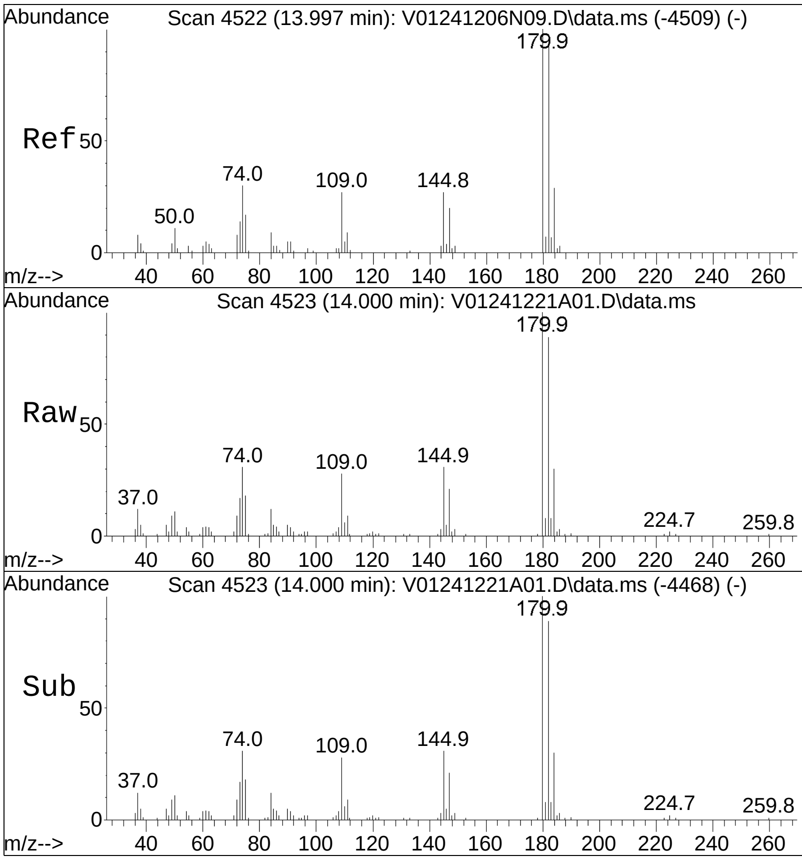



#106
1,2-Dibromo-3-chloropropane
Concen: 9.47 ug/L
RT: 13.364 min Scan# 4295
Delta R.T. -0.003 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion:155 Resp: 4935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 155 | 100 | | |
| 157 | 128.8 | 101.1 | 151.7 |

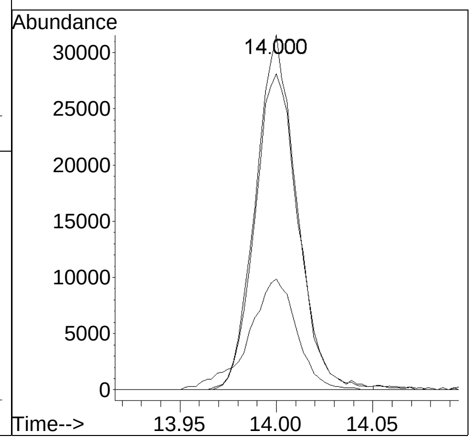


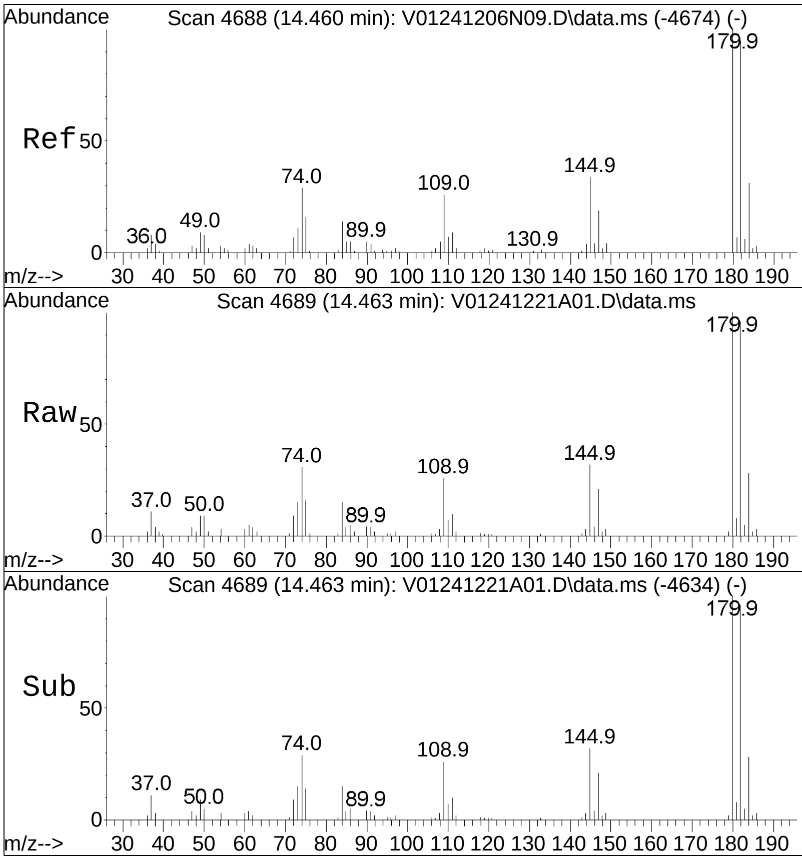



#109
1,2,4-Trichlorobenzene
Concen: 9.47 ug/L
RT: 14.000 min Scan# 4523
Delta R.T. 0.003 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion:180 Resp: 47210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.7 | 75.8 | 113.8 |
| 145 | 36.4 | 26.1 | 39.1 |

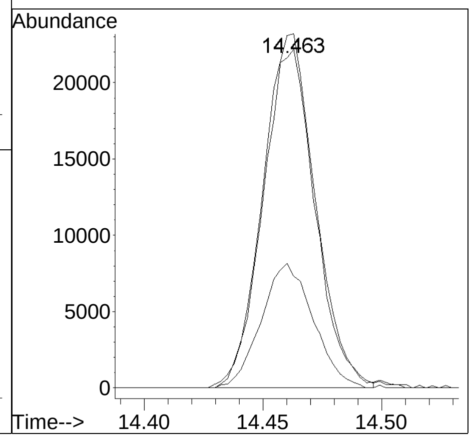





#111
1,2,3-Trichlorobenzene
Concen: 9.38 ug/L
RT: 14.463 min Scan# 4689
Delta R.T. 0.003 min
Lab File: V01241221A01.D
Acq: 21 Dec 2024 5:08 am

Tgt Ion:180 Resp: 35919

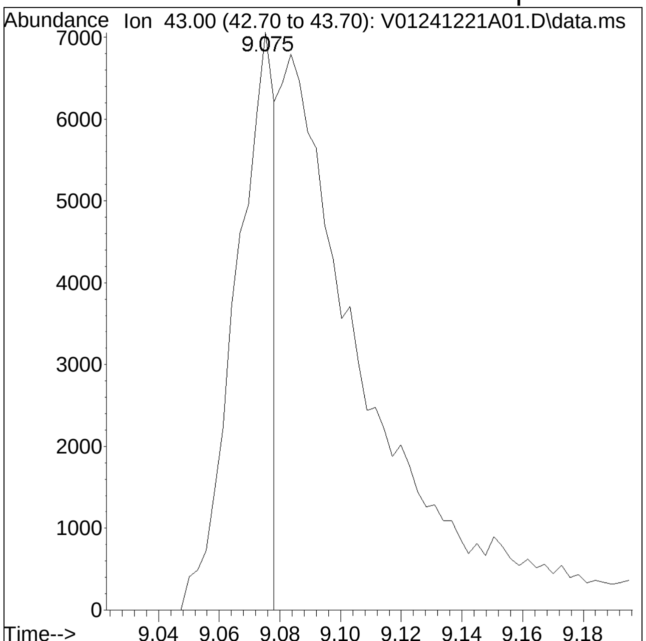
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 75.4 | 113.0 |
| 145 | 34.7 | 25.0 | 37.6 |

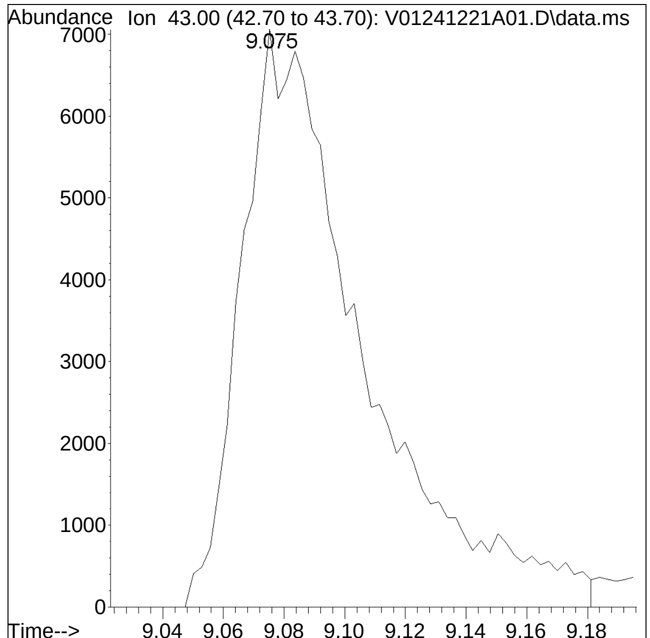


Manual Integration Report

```
Data Path   : K:\VOA101\2024\241221A\    QMethod     : V101_241206N_8260.m
Data File   : V01241221A01.D             Operator    : VOA101:PID
Date Inj'd  : 12/21/2024  5:08 am        Instrument  : VOA 101
Sample      : WG2012561-3,31,10,10       Quant Date  : 12/21/2024  5:38 am
```

Compound #72: 2-Hexanone




Original Peak Response = 6353        Manual Peak Response = 19609 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241220B\
Data File : V05241220B03.D
Acq On : 20 Dec 2024 10:20 am
Operator : VOA105:PID
Sample : WG2012422-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 20 11:13:59 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241220B\V05241220B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

```
        Compound                      R.T. QIon  Response  Conc Units Dev(Min)
  ---------------------------------------------------------------------------
  Internal Standards
   1) Fluorobenzene                  5.655   96    435344    10.000 ug/L     0.00
     Standard Area 1 = 432025                   Recovery   =  100.77%
  59) Chlorobenzene-d5               9.147  117    336696    10.000 ug/L     0.00
     Standard Area 1 = 336874                   Recovery   =   99.95%
  79) 1,4-Dichlorobenzene-d4        11.920  152    194874    10.000 ug/L     0.00
     Standard Area 1 = 194778                   Recovery   =  100.05%

  System Monitoring Compounds
  36) Dibromofluoromethane           4.872  113    117682    10.491 ug/L    0.00
     Spiked Amount    10.000   Range  70 - 130    Recovery   =  104.91%
  43) 1,2-Dichloroethane-d4          5.381   65    156495    10.582 ug/L    0.00
     Spiked Amount    10.000   Range  70 - 130    Recovery   =  105.82%
  60) Toluene-d8                     7.318   98    420993     9.975 ug/L    0.00
     Spiked Amount    10.000   Range  70 - 130    Recovery   =   99.75%
  83) 4-Bromofluorobenzene          10.676   95    168413     9.500 ug/L    0.00
     Spiked Amount    10.000   Range  70 - 130    Recovery   =   95.00%

  Target Compounds                                                     Qvalue
   2) Dichlorodifluoromethane        1.488   85     116062      8.095 ug/L      97
   3) Chloromethane                  1.664   50      97424      4.904 ug/L      98
   4) Vinyl chloride                 1.723   62     105632      6.257 ug/L      95
   5) Bromomethane                   2.007   94      18857      5.797 ug/L     100
   6) Chloroethane                   2.104   64      59960      7.294 ug/L      94
   7) Trichlorofluoromethane         2.232  101     149449      8.951 ug/L      99
  10) 1,1-Dichloroethene             2.691   96      70492      8.534 ug/L      80
  11) Carbon disulfide               2.721   76     233993      8.730 ug/L      99
  12) Freon-113                      2.721  101      77711      8.640 ug/L #    72
  15) Methylene chloride             3.229   84      91360      8.588 ug/L #    58
  17) Acetone                        3.288   43      17708      5.881 ug/L #    84
  18) trans-1,2-Dichloroethene       3.366   96      91884      9.021 ug/L      87
  19) Methyl acetate                 3.386   43      46993      6.422 ug/L #    79
  20) Methyl tert-butyl ether        3.464   73     208533      9.546 ug/L #    84
  23) 1,1-Dichloroethane             3.933   63     194417      7.508 ug/L      96
  28) cis-1,2-Dichloroethene         4.432   96     102389      9.064 ug/L      89
  30) Bromochloromethane             4.628  128      46062      9.358 ug/L #    68
  31) Cyclohexane                    4.608   56     201150      5.878 ug/L #    64
  32) Chloroform                     4.696   83     171737      9.270 ug/L #    95
  34) Carbon tetrachloride           4.814  117     142918      8.920 ug/L      98
```

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2024\241220B\
Data File : V05241220B03.D
Acq On : 20 Dec 2024 10:20 am
Operator : VOA105:PID
Sample : WG2012422-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 20 11:13:59 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2024\241220B\V05241220B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 37) 1,1,1-Trichloroethane | 4.872 | 97 | 157034 | 9.003 ug/L | 94 |
| 39) 2-Butanone | 4.990 | 43 | 34523 | 7.401 ug/L # | 60 |
| 41) Benzene | 5.234 | 78 | 367586 | 8.757 ug/L # | 90 |
| 44) 1,2-Dichloroethane | 5.449 | 62 | 137622 | 8.264 ug/L | 98 |
| 47) Methyl cyclohexane | 5.802 | 83 | 149503 | 8.031 ug/L # | 59 |
| 48) Trichloroethene | 5.821 | 95 | 97245 | 8.439 ug/L | 95 |
| 51) 1,2-Dichloropropane | 6.359 | 63 | 101733 | 7.084 ug/L # | 87 |
| 54) Bromodichloromethane | 6.437 | 83 | 126923 | 9.093 ug/L | 96 |
| 58) cis-1,3-Dichloropropene | 7.122 | 75 | 136217 | 8.562 ug/L # | 89 |
| 61) Toluene | 7.376 | 92 | 234169 | 8.733 ug/L | 100 |
| 62) 4-Methyl-2-pentanone | 7.816 | 58 | 23428 | 6.723 ug/L # | 89 |
| 63) Tetrachloroethene | 7.807 | 166 | 106735 | 9.083 ug/L | 94 |
| 65) trans-1,3-Dichloropropene | 7.865 | 75 | 117912 | 9.031 ug/L | 88 |
| 68) 1,1,2-Trichloroethane | 8.051 | 83 | 56487 | 9.113 ug/L | 98 |
| 69) Chlorodibromomethane | 8.257 | 129 | 88140 | 9.019 ug/L | 100 |
| 71) 1,2-Dibromoethane | 8.521 | 107 | 69387 | 9.055 ug/L | 99 |
| 72) 2-Hexanone | 8.824 | 43 | 40225 | 6.326 ug/L | 96 |
| 73) Chlorobenzene | 9.167 | 112 | 255106 | 8.785 ug/L | 95 |
| 74) Ethylbenzene | 9.196 | 91 | 464838 | 8.703 ug/L | 96 |
| 76) p/m Xylene | 9.382 | 106 | 358640 | 17.715 ug/L | 88 |
| 77) o Xylene | 9.931 | 106 | 341514 | 17.634 ug/L | 88 |
| 78) Styrene | 10.000 | 104 | 558974 | 17.864 ug/L | 92 |
| 80) Bromoform | 10.039 | 173 | 52895 | 9.165 ug/L | 98 |
| 82) Isopropylbenzene | 10.333 | 105 | 480444 | 7.923 ug/L | 97 |
| 87) 1,1,2,2-Tetrachloroethane | 10.940 | 83 | 78889 | 8.286 ug/L | 97 |
| 100) 1,3-Dichlorobenzene | 11.841 | 146 | 217948 | 8.466 ug/L | 97 |
| 101) 1,4-Dichlorobenzene | 11.939 | 146 | 220096 | 8.558 ug/L | 97 |
| 104) 1,2-Dichlorobenzene | 12.370 | 146 | 198599 | 8.556 ug/L | 97 |
| 106) 1,2-Dibromo-3-chloropr... | 13.154 | 155 | 11819 | 7.907 ug/L | 99 |
| 109) 1,2,4-Trichlorobenzene | 13.791 | 180 | 129903 | 8.863 ug/L | 98 |
| 111) 1,2,3-Trichlorobenzene | 14.251 | 180 | 107337 | 8.681 ug/L | 98 |

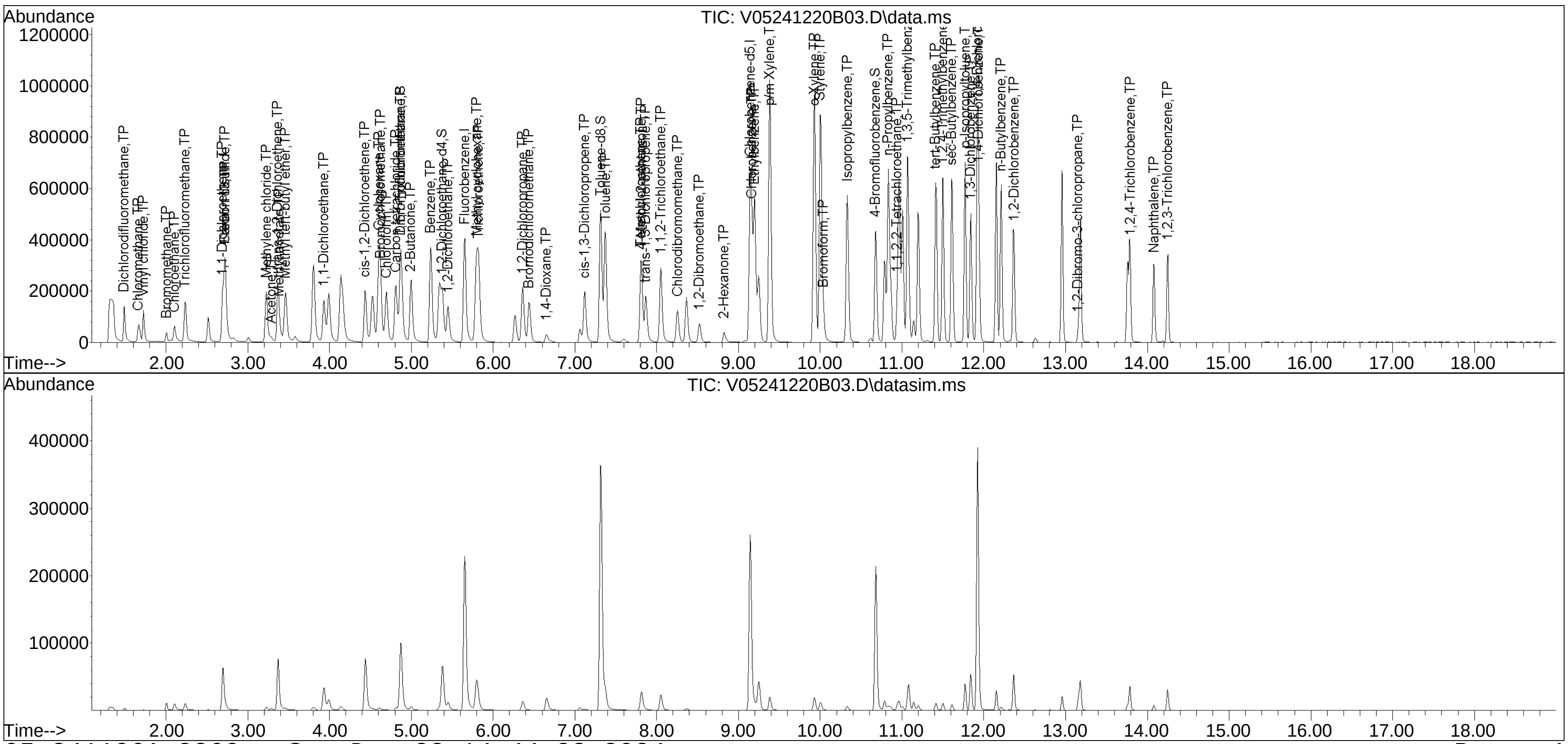
(#) = qualifier out of range (m) = manual integration (+) = signals summed

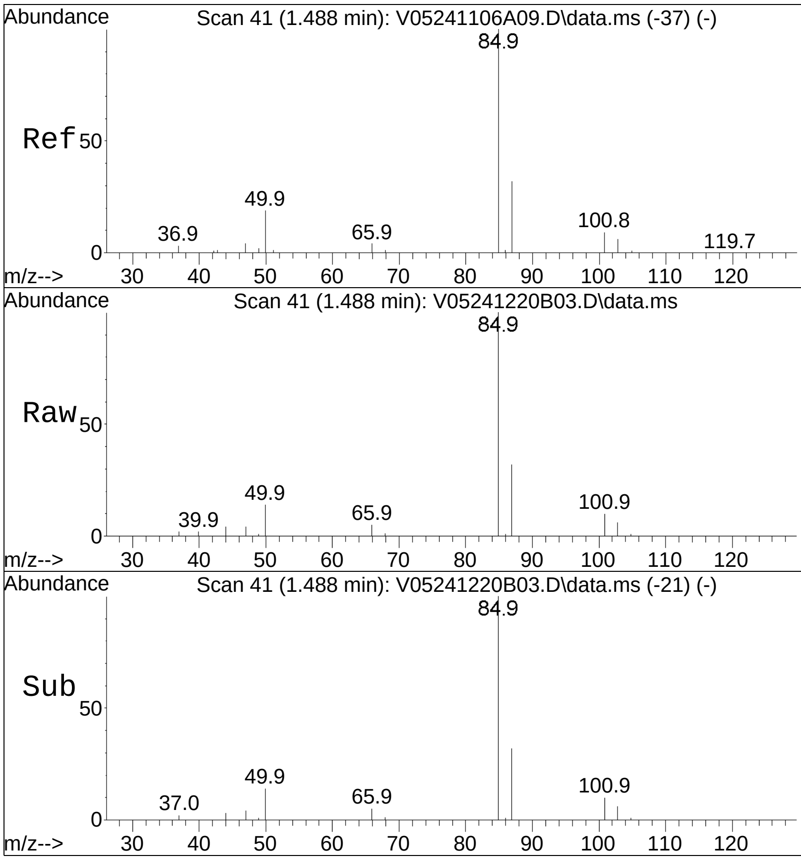
Quantitation Report    (QT Reviewed)

Data Path : K:\VOA105\2024\241220B\
Data File : V05241220B03.D
Acq On    : 20 Dec 2024  10:20 am
Operator  : VOA105:PID
Sample    : WG2012422-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc      : WG2012422,ICAL21671 (Sig #1); WG,ICAL21625 (Sig #2)
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Dec 20 11:13:59 2024
Quant Method : K:\VOA105\2024\241220B\V105_241106A_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Wed Nov 06 11:41:24 2024
Response via : Initial Calibration

Sub List     : 8260-NY_R2 - NYSOM01.2 + NYSTARS1220B02.D•

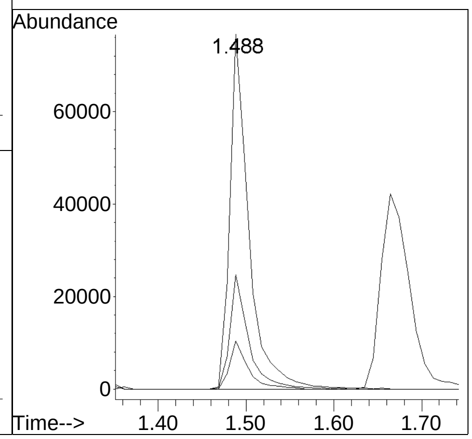


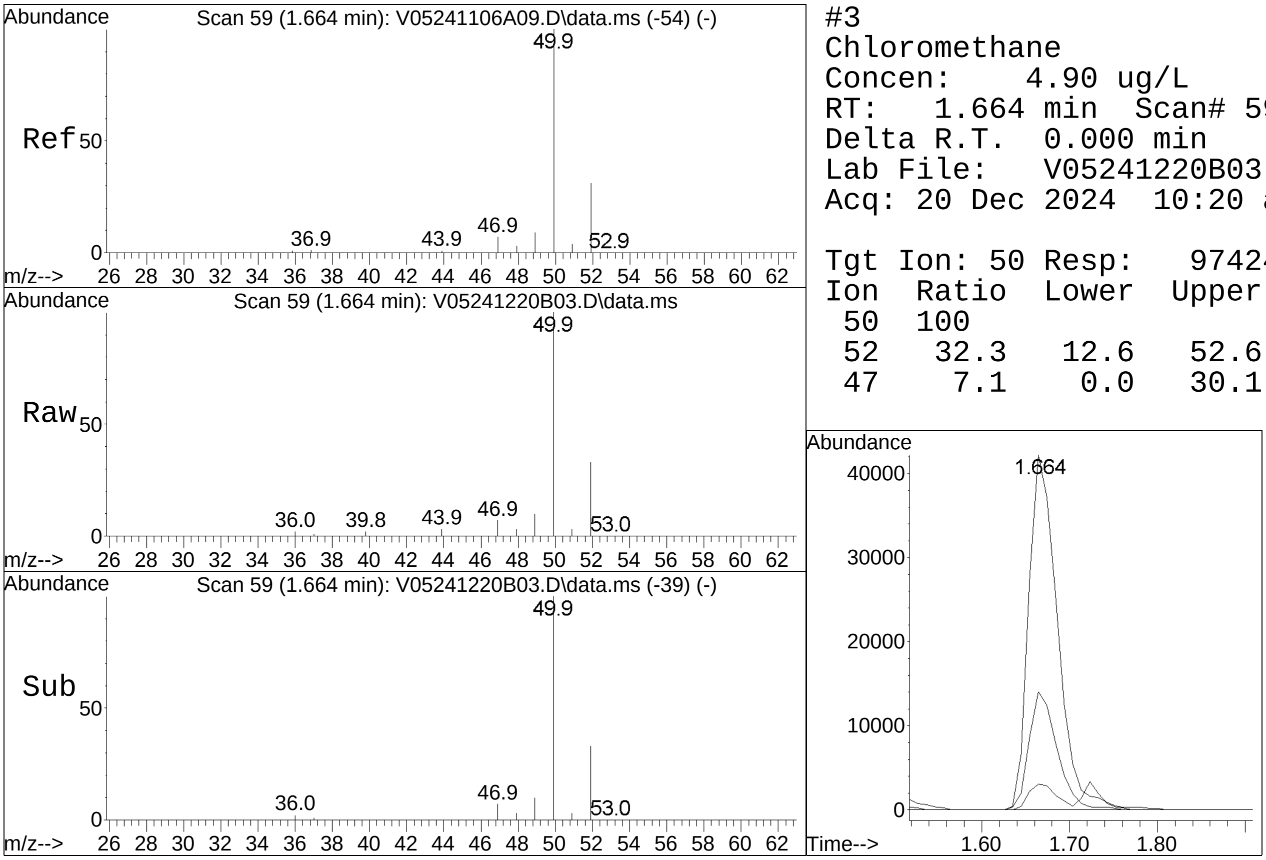



#2
Dichlorodifluoromethane
Concen: 8.09 ug/L
RT: 1.488 min Scan# 41
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 85 Resp: 116062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.5 | 20.9 | 43.5 |
| 50 | 13.1 | 6.8 | 14.0 |

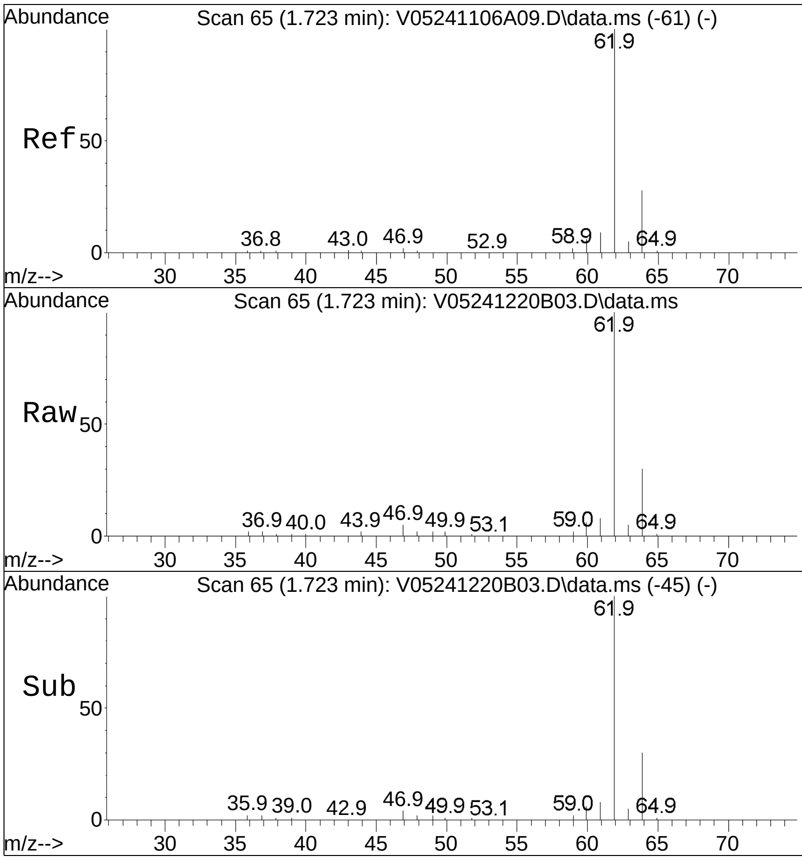





#3
Chloromethane
Concen: 4.90 ug/L
RT: 1.664 min Scan# 59
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 50 Resp: 97424

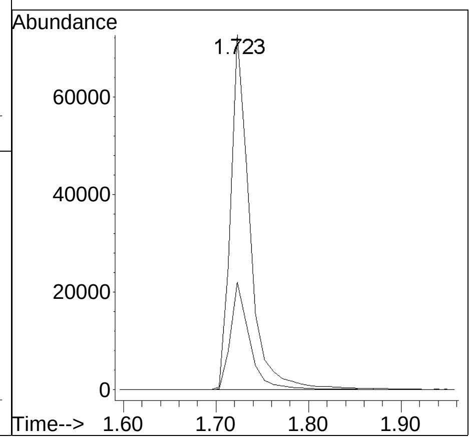
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.3 | 12.6 | 52.6 |
| 47 | 7.1 | 0.0 | 30.1 |

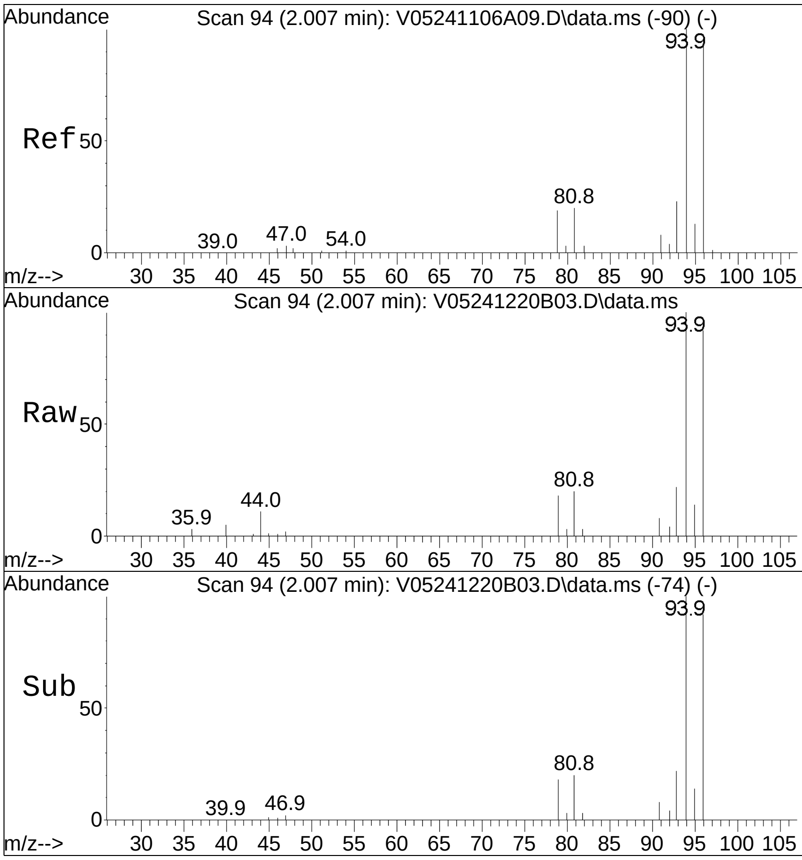



#4
Vinyl chloride
Concen: 6.26 ug/L
RT: 1.723 min Scan# 65
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 62 Resp: 105632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.5 | 13.5 | 53.5 |

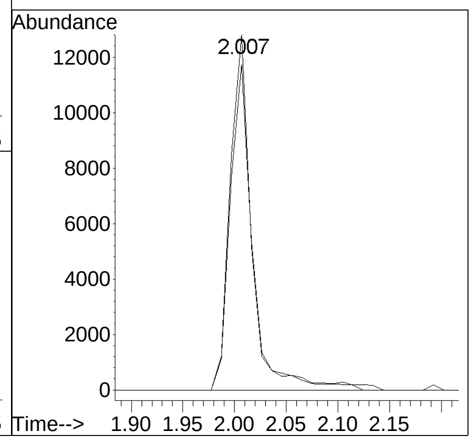


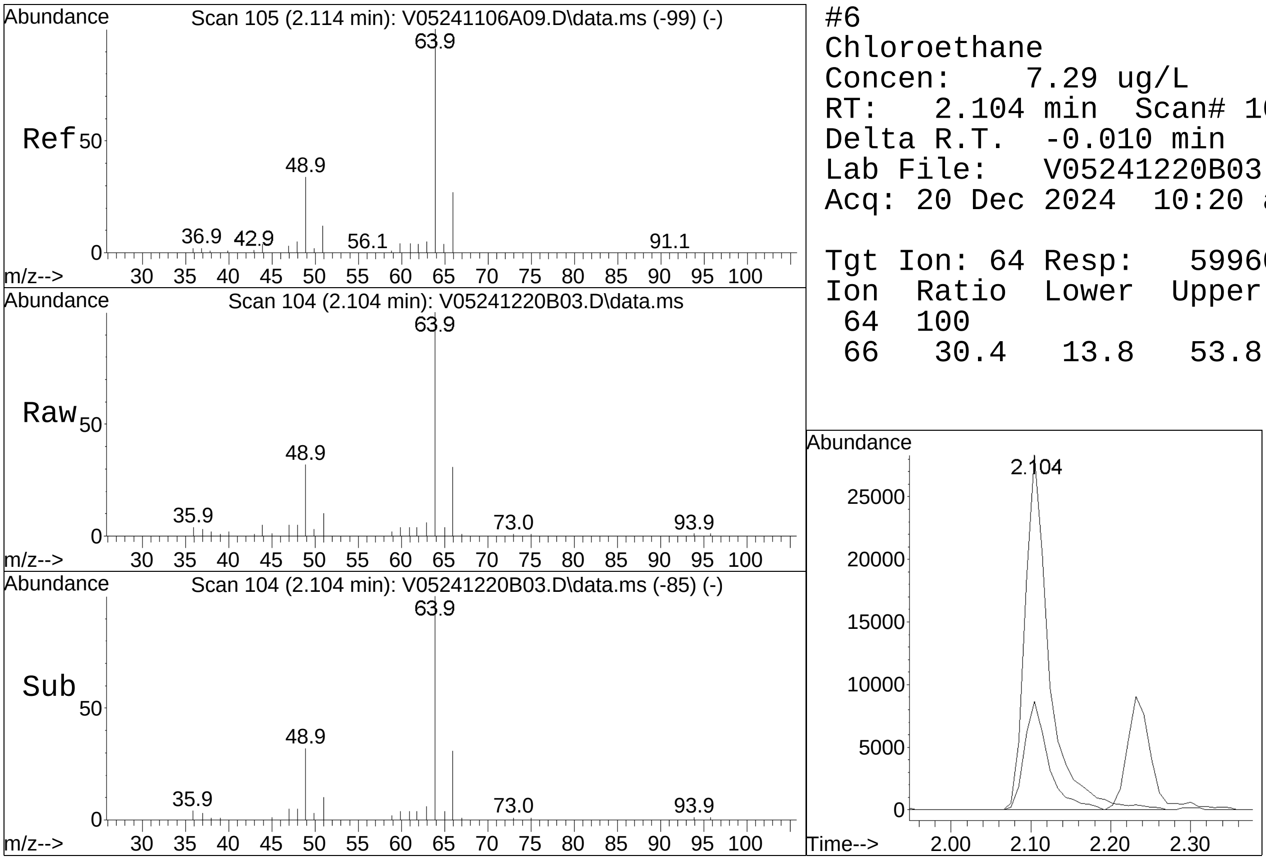



#5
Bromomethane
Concen: 5.80 ug/L
RT: 2.007 min Scan# 94
Delta R.T. -0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

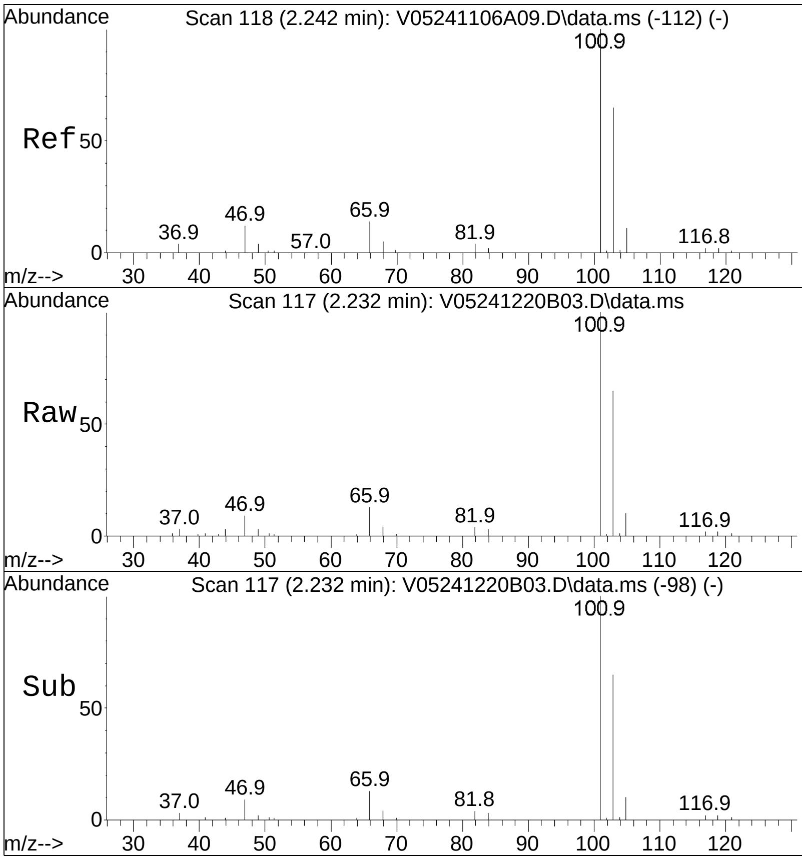
Tgt Ion: 94 Resp: 18857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.5 | 75.4 | 115.4 |





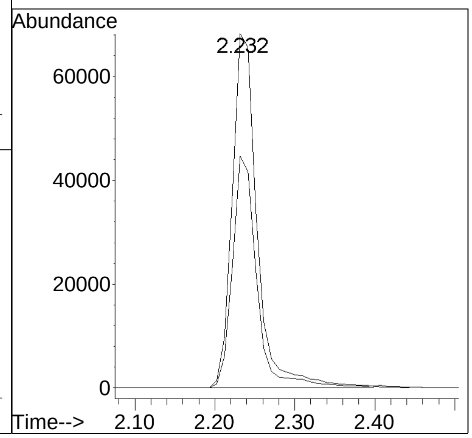

```
#6
Chloroethane
Concen:    7.29 ug/L
RT:   2.104 min  Scan# 104
Delta R.T.  -0.010 min
Lab File:   V05241220B03.D
Acq: 20 Dec 2024  10:20 am

Tgt Ion: 64 Resp:   59960
Ion  Ratio  Lower  Upper
 64  100
 66   30.4   13.8   53.8
```

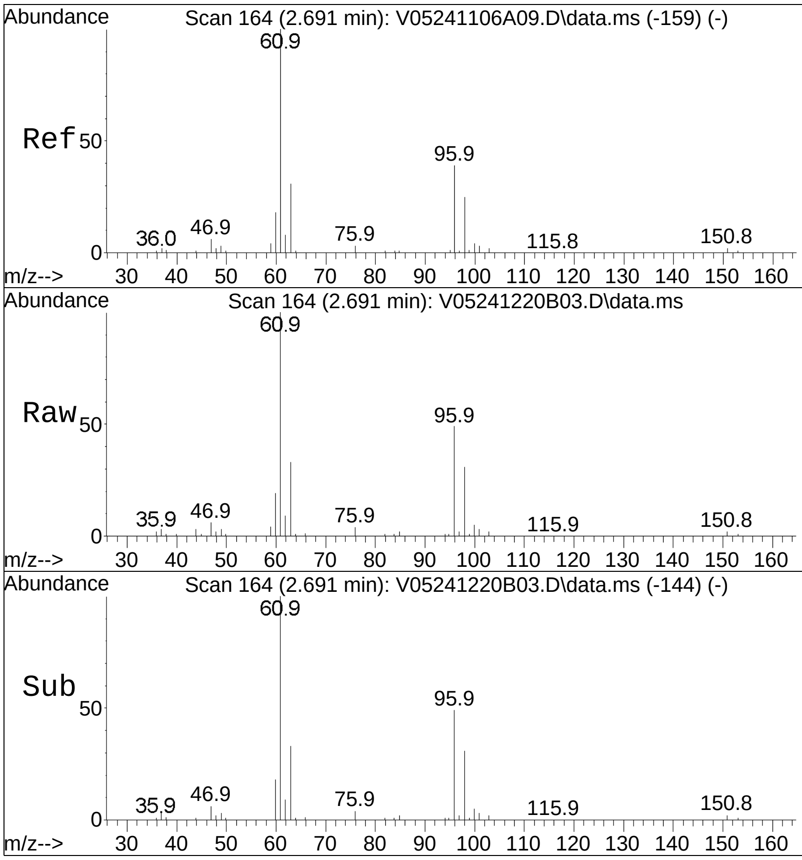



#7
Trichlorofluoromethane
Concen: 8.95 ug/L
RT: 2.232 min Scan# 117
Delta R.T. -0.010 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion:101 Resp: 149449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.1 | 51.8 | 77.6 |

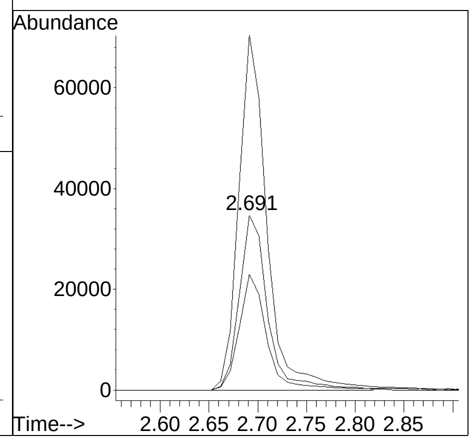


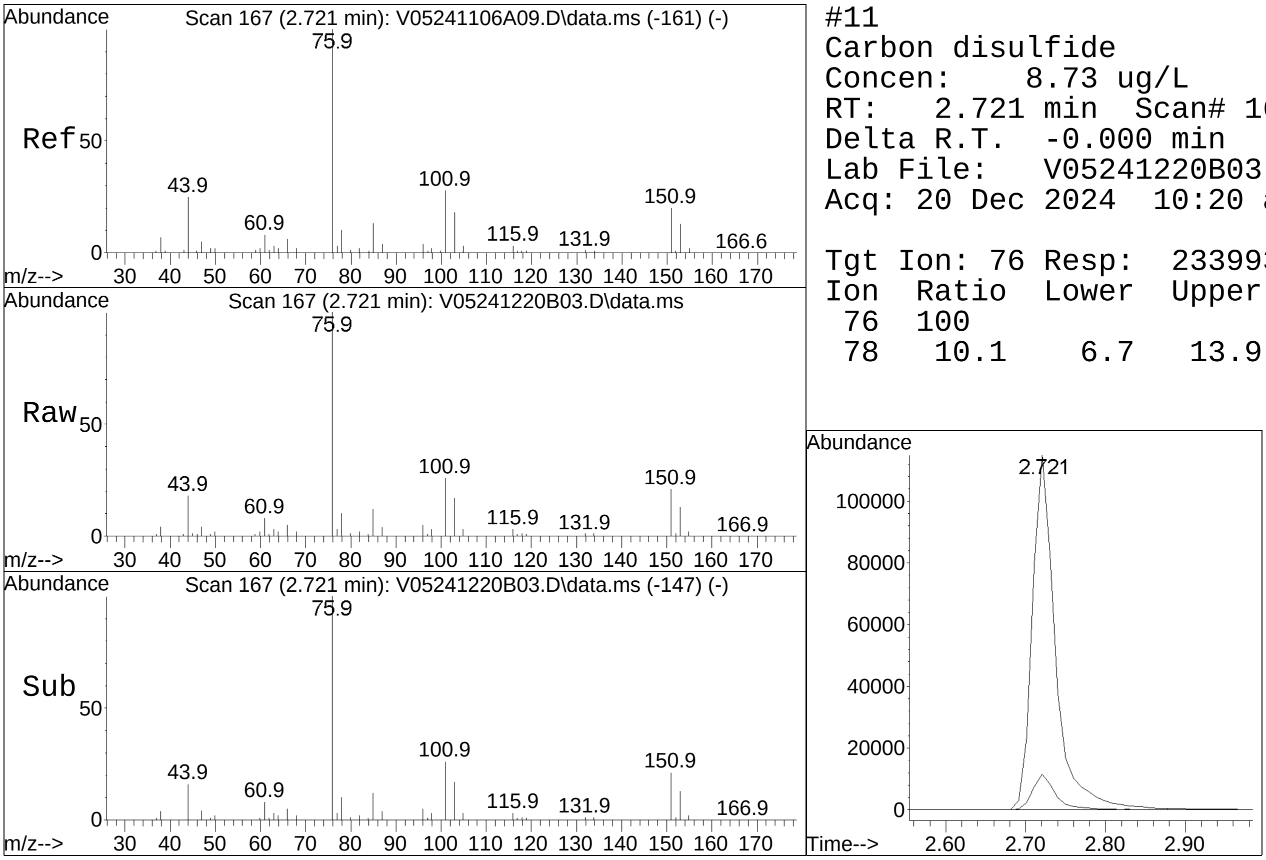



#10
1,1-Dichloroethene
Concen: 8.53 ug/L
RT: 2.691 min Scan# 164
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 96 Resp: 70492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 202.8 | 136.7 | 205.1 |
| 63 | 64.7 | 45.0 | 67.6 |

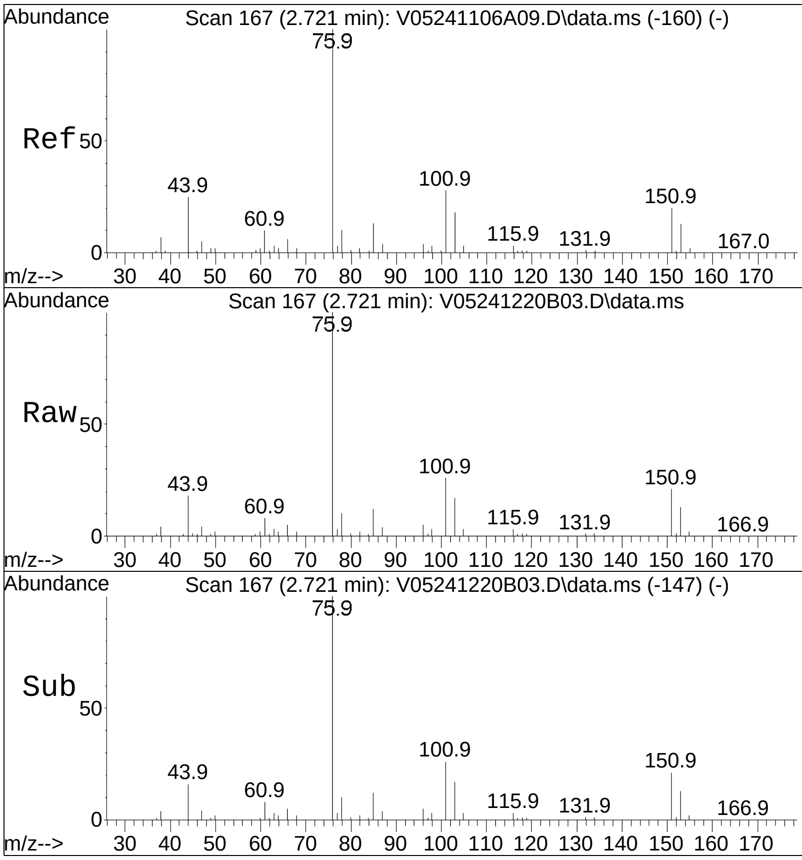





#11
Carbon disulfide
Concen: 8.73 ug/L
RT: 2.721 min Scan# 167
Delta R.T. -0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 76 Resp: 233993

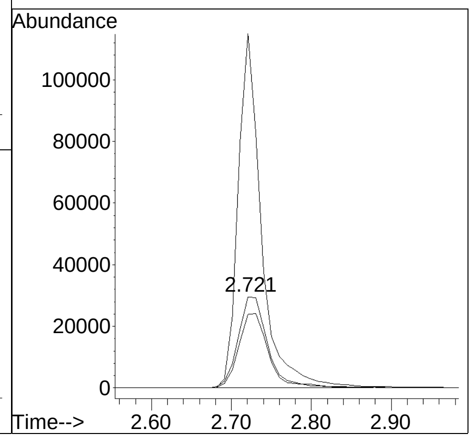
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.1 | 6.7 | 13.9 |

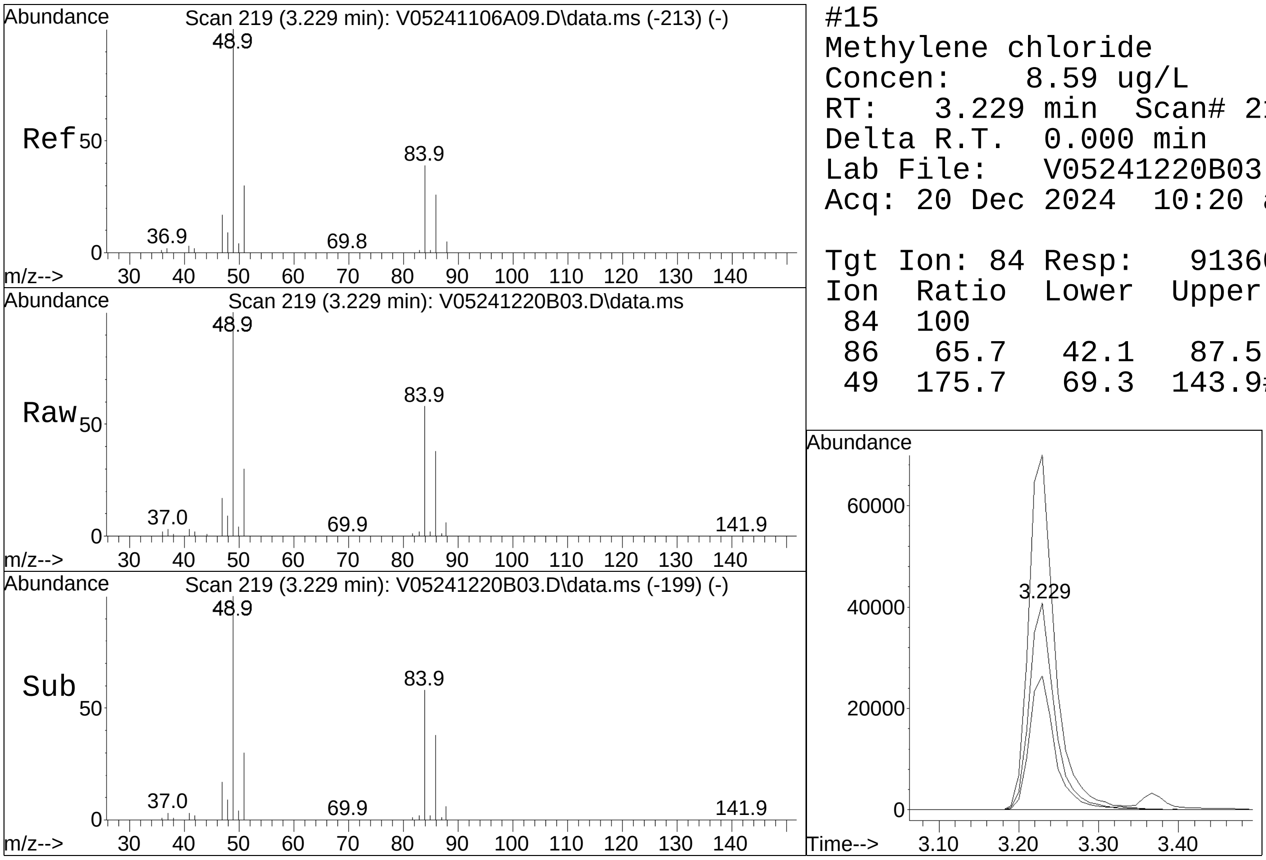



#12
Freon-113
Concen: 8.64 ug/L
RT: 2.721 min Scan# 167
Delta R.T. -0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion:101 Resp: 77711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 81.5 | 65.0 | 97.6 |
| 76 | 301.1 | 190.0 | 285.0# |

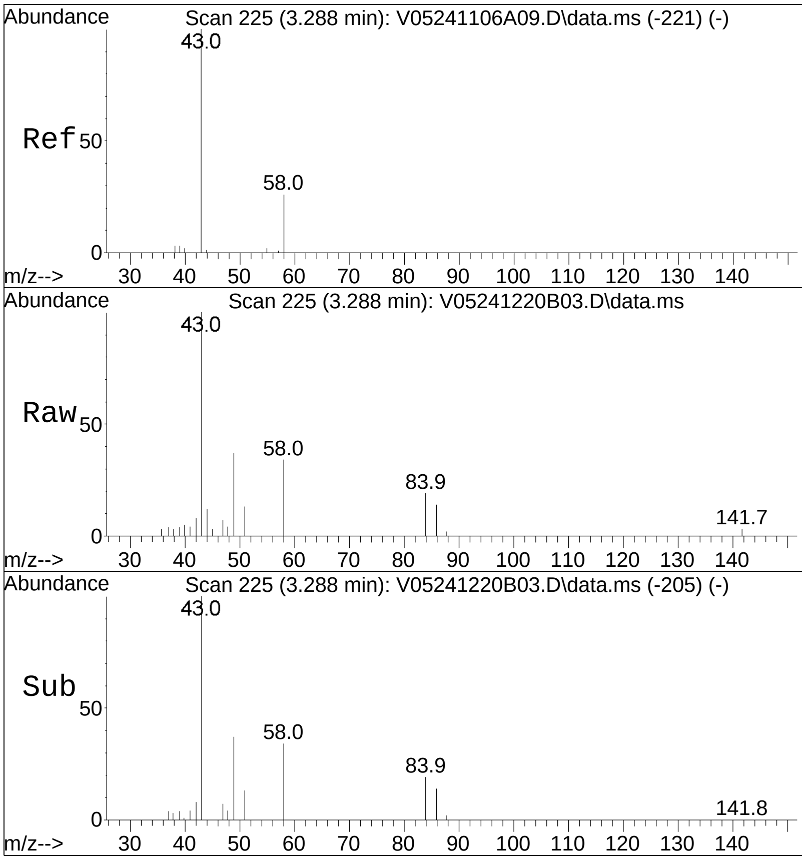





#15
Methylene chloride
Concen: 8.59 ug/L
RT: 3.229 min Scan# 219
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 84 Resp: 91360

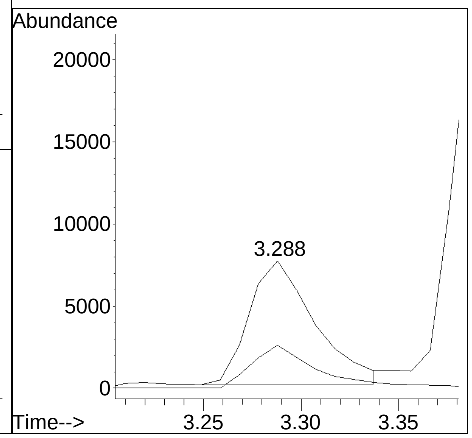
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 65.7 | 42.1 | 87.5 |
| 49 | 175.7 | 69.3 | 143.9# |

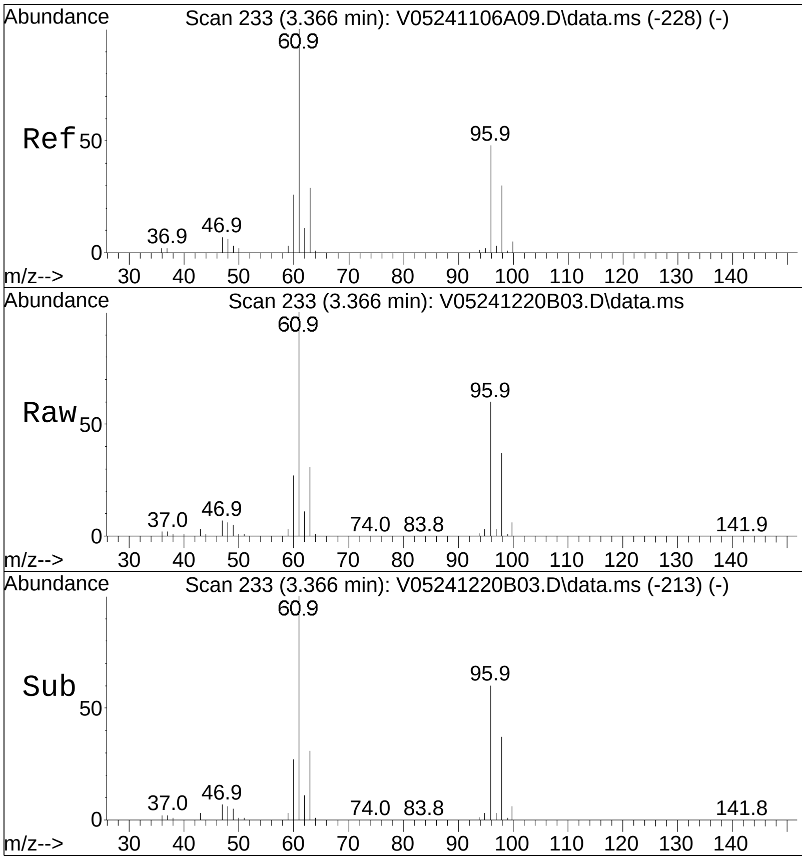



#17
Acetone
Concen: 5.88 ug/L
RT: 3.288 min Scan# 225
Delta R.T. -0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 43 Resp: 17708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.6 | 22.0 | 33.0# |

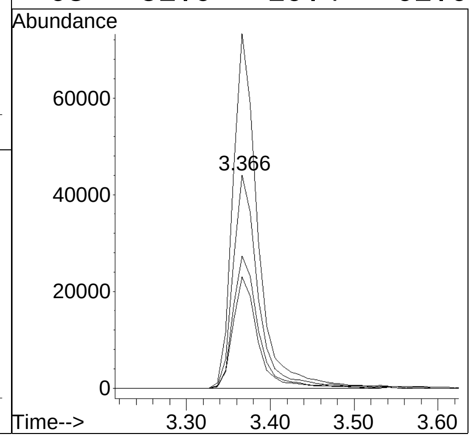


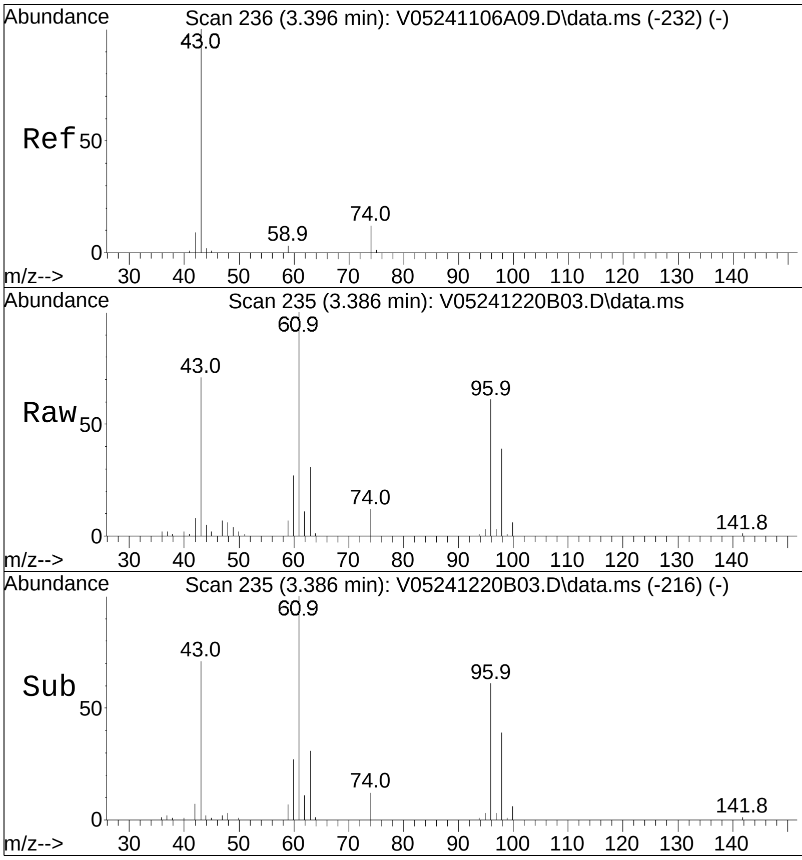



#18
trans-1,2-Dichloroethene
Concen: 9.02 ug/L
RT: 3.366 min Scan# 233
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 96 Resp: 91884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 165.4 | 91.7 | 190.5 |
| 98 | 62.8 | 41.1 | 85.5 |
| 63 | 51.9 | 29.4 | 61.0 |

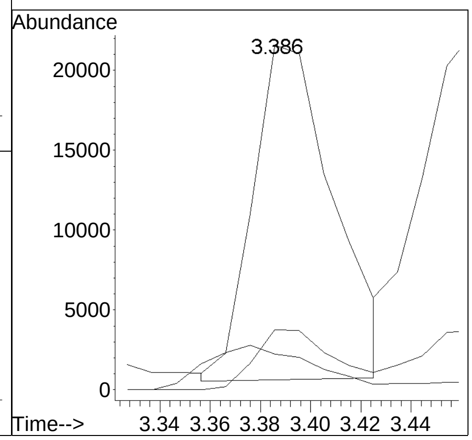


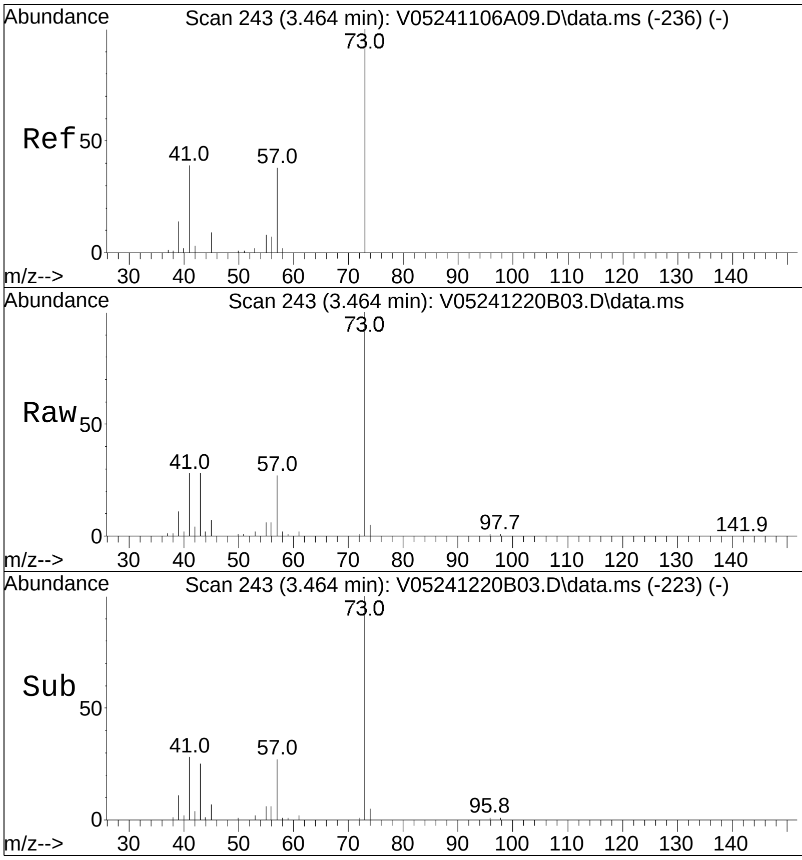



#19
Methyl acetate
Concen: 6.42 ug/L
RT: 3.386 min Scan# 235
Delta R.T. -0.010 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 43 Resp: 46993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 17.9 | 23.1 | 34.7# |
| 59 | 18.4 | 23.9 | 35.9# |

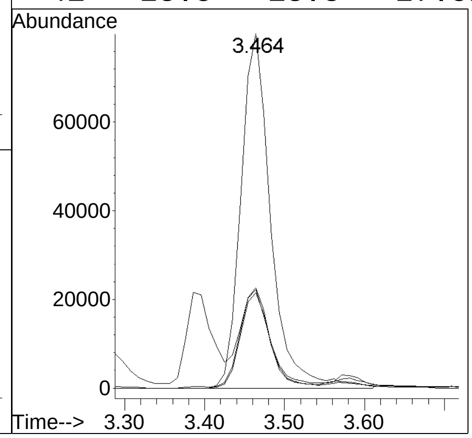


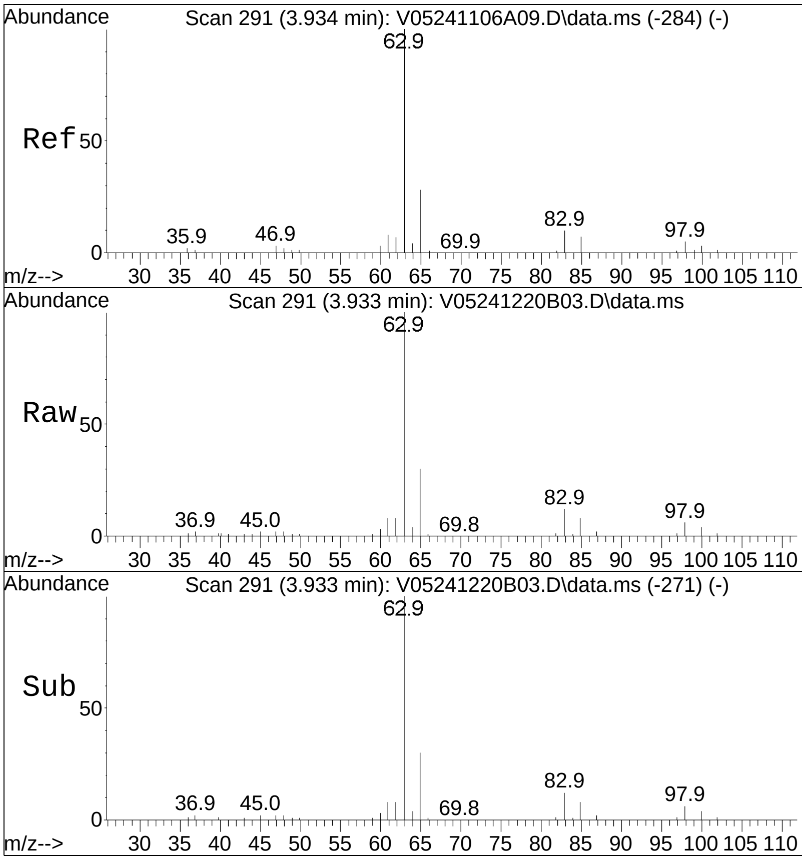



#20
Methyl tert-butyl ether
Concen: 9.55 ug/L
RT: 3.464 min Scan# 243
Delta R.T. -0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 73 Resp: 208533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 26.5 | 11.8 | 24.6# |
| 43 | 26.3 | 13.5 | 27.9 |
| 41 | 28.5 | 13.3 | 27.5# |

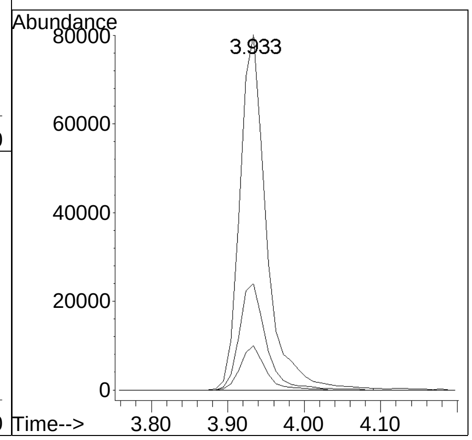


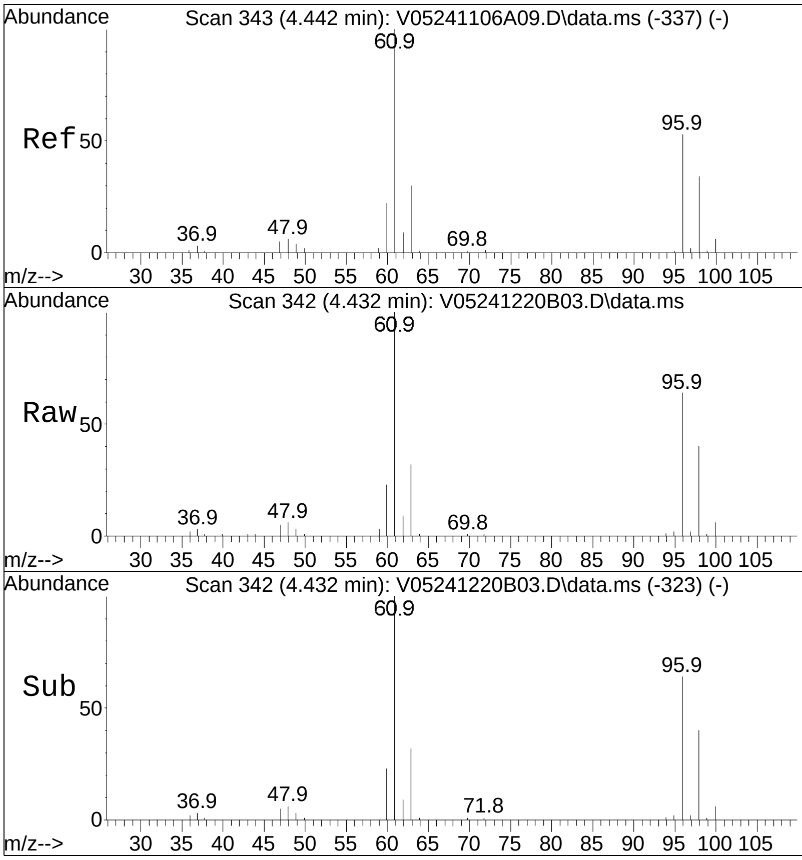



#23
1,1-Dichloroethane
Concen: 7.51 ug/L
RT: 3.933 min Scan# 291
Delta R.T. -0.001 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 63 Resp: 194417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 29.9 | 11.9 | 51.9 |
| 83 | 11.7 | 0.0 | 34.2 |

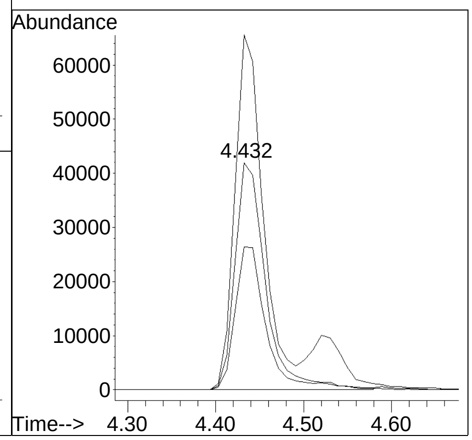


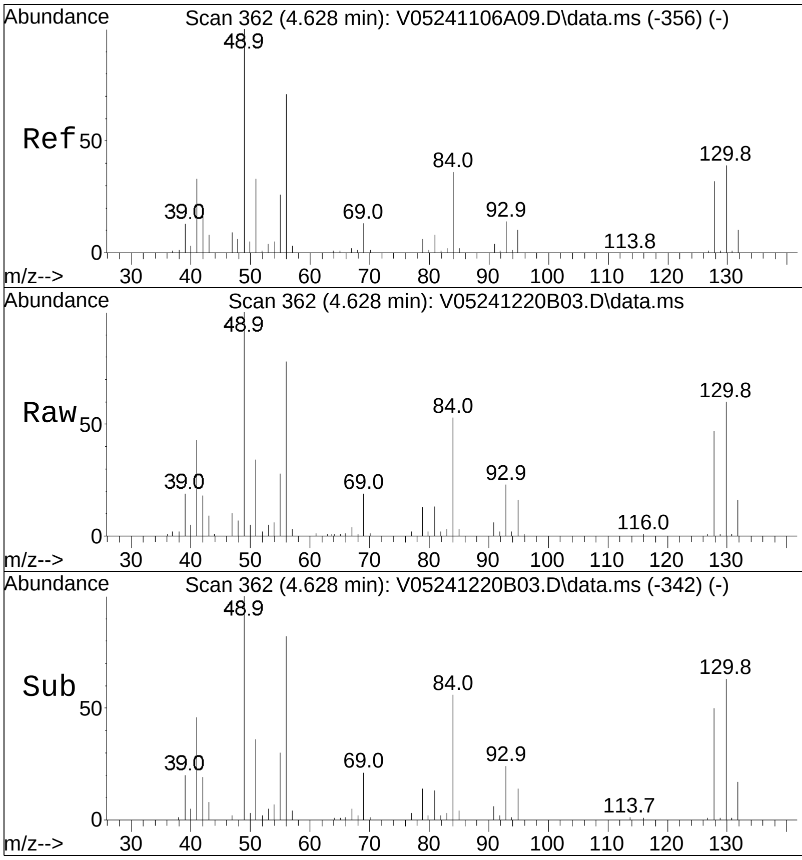



#28
cis-1,2-Dichloroethene
Concen: 9.06 ug/L
RT: 4.432 min Scan# 342
Delta R.T. -0.010 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 96 Resp: 102389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 143.3 | 100.5 | 150.7 |
| 98 | 64.2 | 49.8 | 74.8 |

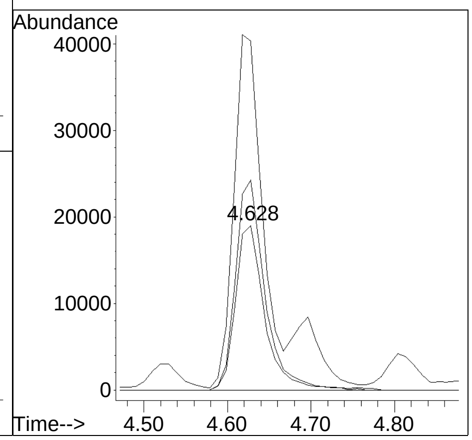


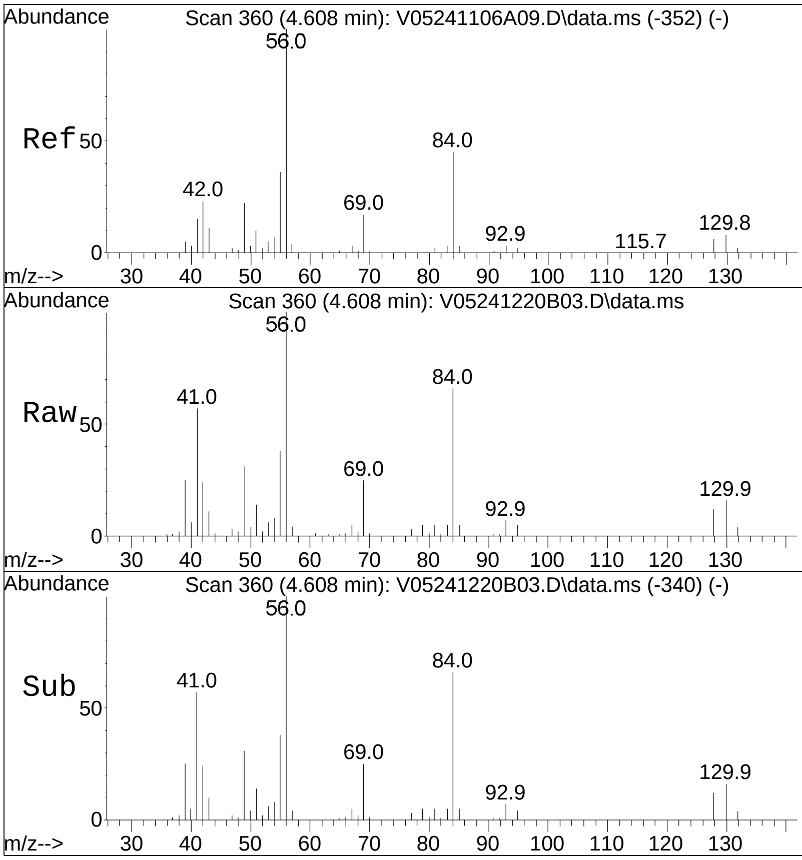



#30
Bromochloromethane
Concen: 9.36 ug/L
RT: 4.628 min Scan# 362
Delta R.T. -0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion:128 Resp: 46062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 49 | 207.2 | 109.0 | 163.4# |
| 130 | 128.6 | 105.6 | 158.4 |

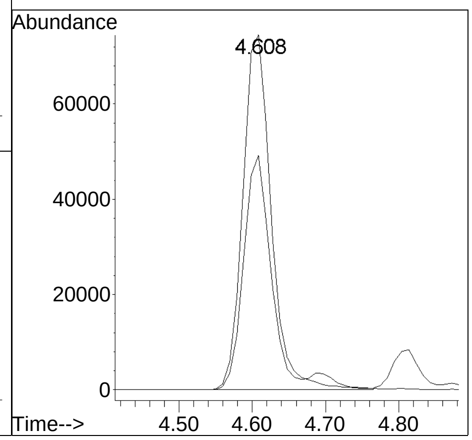


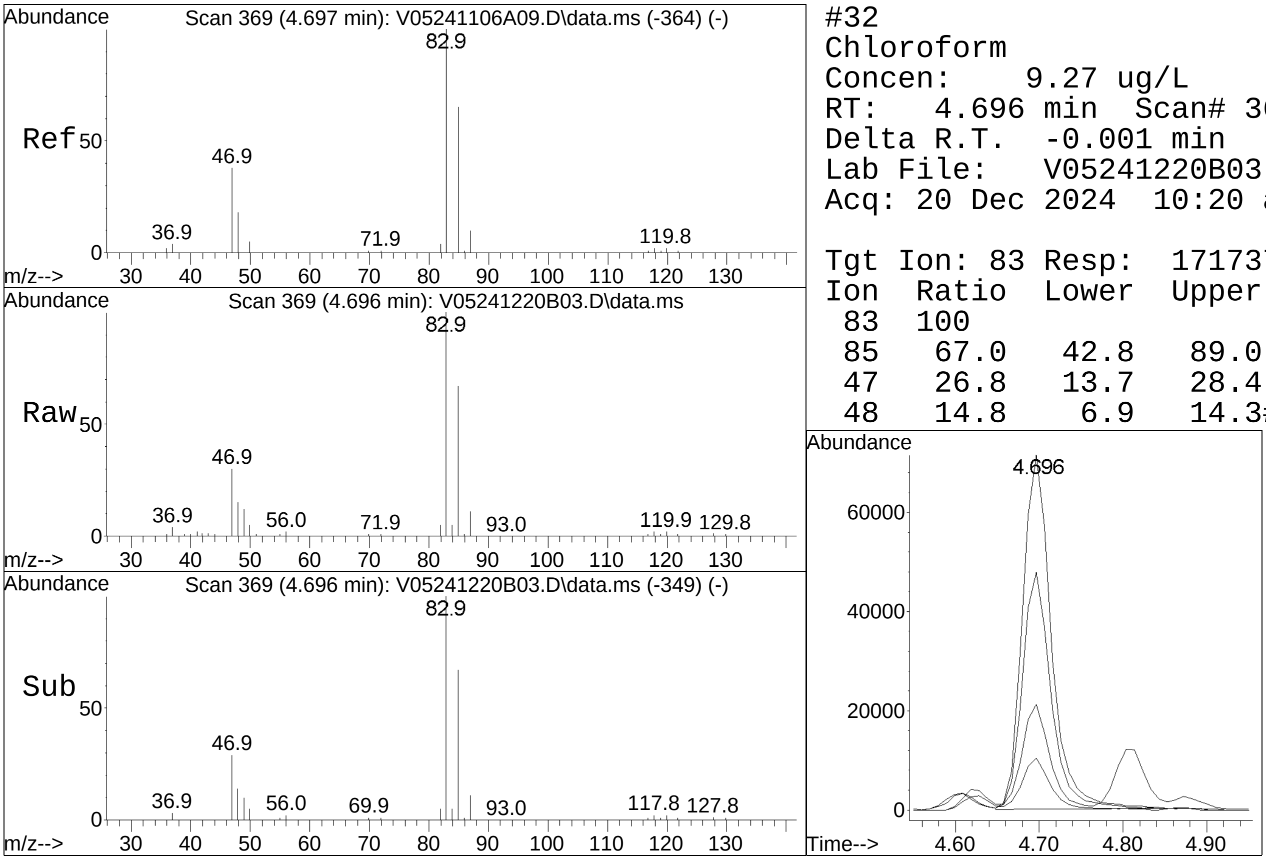



#31
Cyclohexane
Concen: 5.88 ug/L
RT: 4.608 min Scan# 360
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 56 Resp: 201150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 84 | 63.1 | 64.4 | 133.8# |

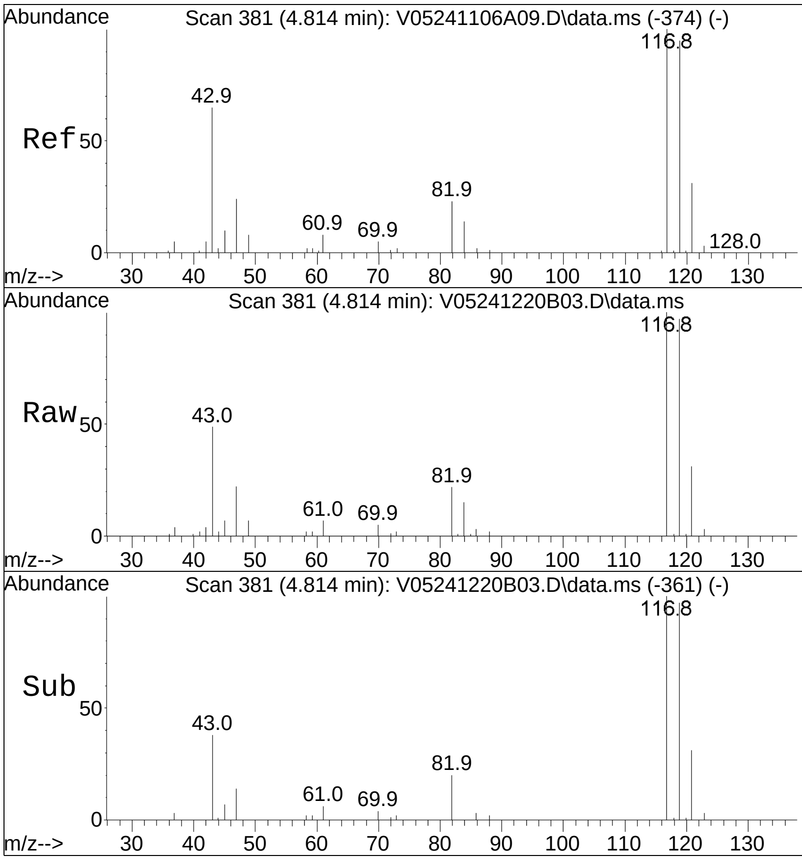





#32
Chloroform
Concen: 9.27 ug/L
RT: 4.696 min Scan# 369
Delta R.T. -0.001 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 83 Resp: 171737

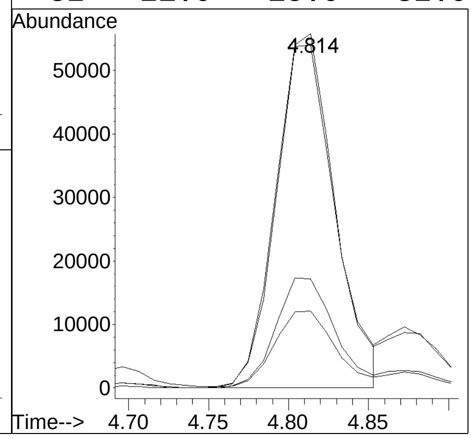
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.0 | 42.8 | 89.0 |
| 47 | 26.8 | 13.7 | 28.4 |
| 48 | 14.8 | 6.9 | 14.3# |

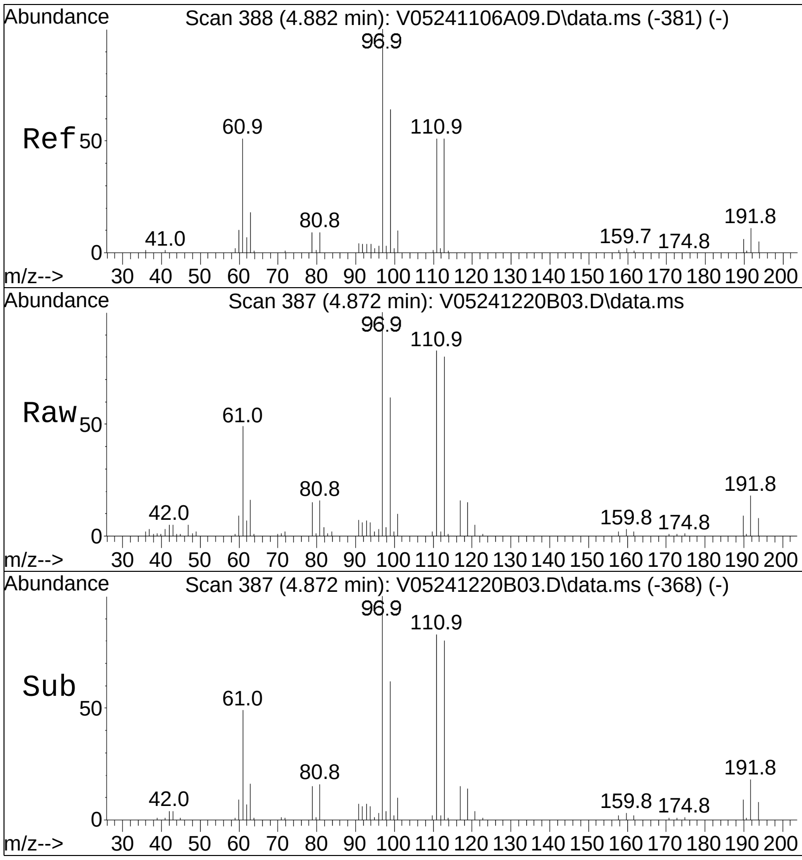



#34
Carbon tetrachloride
Concen: 8.92 ug/L
RT: 4.814 min Scan# 381
Delta R.T. -0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion:117 Resp: 142918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.8 | 63.6 | 132.2 |
| 121 | 31.2 | 19.8 | 41.0 |
| 82 | 21.9 | 15.9 | 32.9 |

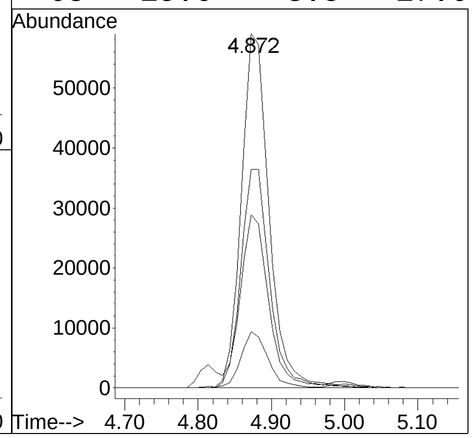


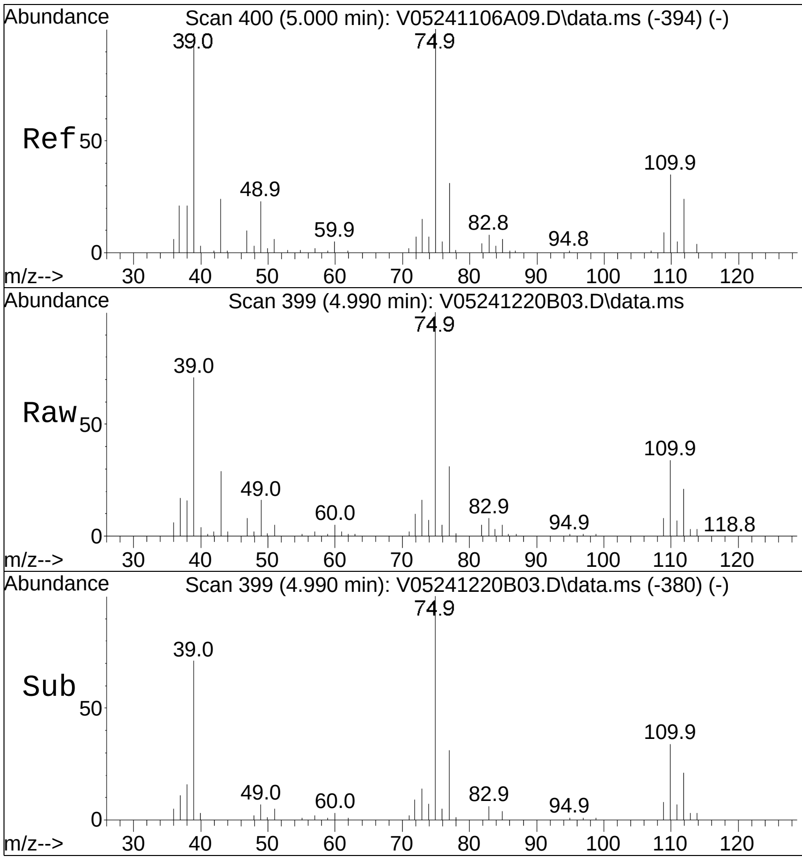



#37
1,1,1-Trichloroethane
Concen: 9.00 ug/L
RT: 4.872 min Scan# 387
Delta R.T. -0.010 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 97 Resp: 157034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.8 | 41.7 | 86.5 |
| 61 | 48.7 | 26.1 | 54.3 |
| 63 | 15.6 | 8.5 | 17.6 |

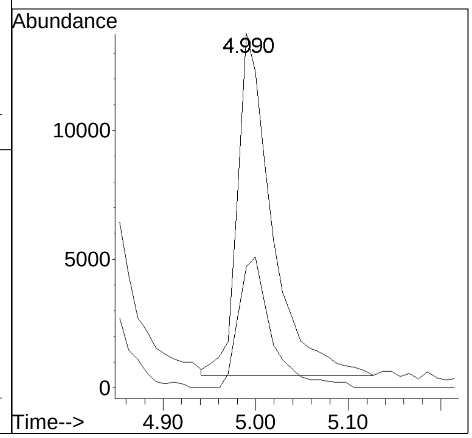


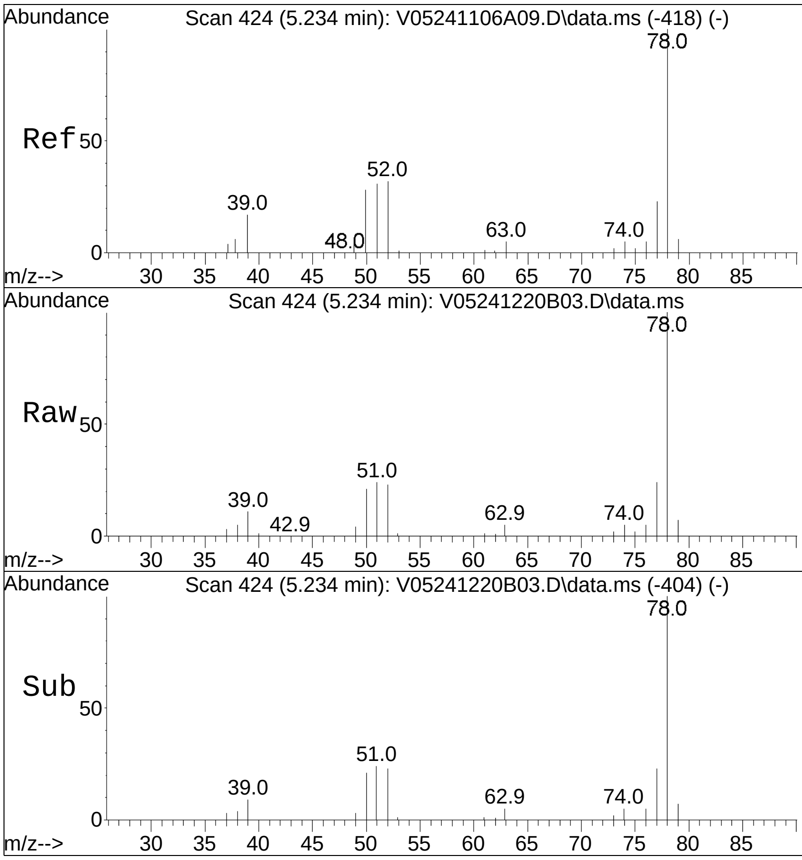



#39
2-Butanone
Concen: 7.40 ug/L
RT: 4.990 min Scan# 399
Delta R.T. -0.010 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 43 Resp: 34523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 36.8 | 55.6 | 83.4# |

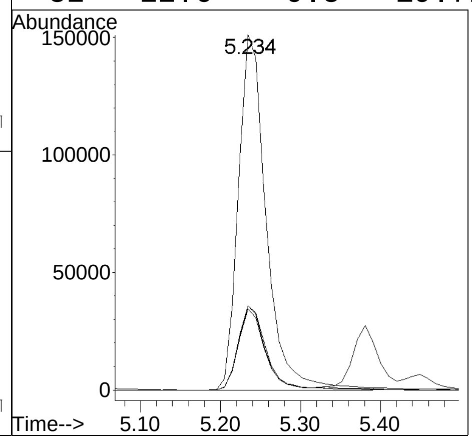


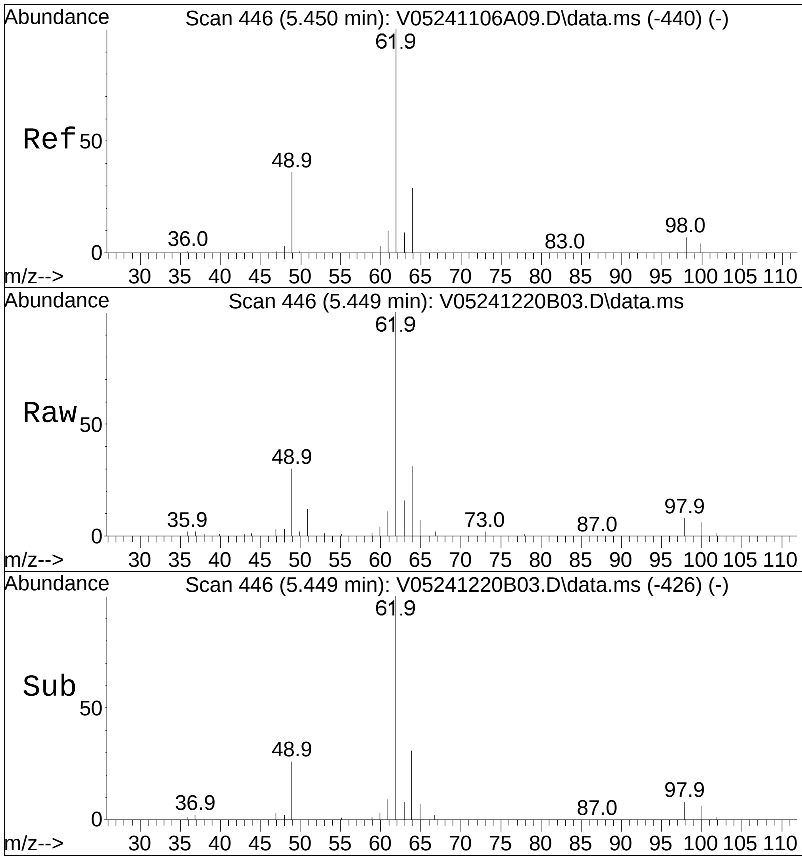



#41
Benzene
Concen: 8.76 ug/L
RT: 5.234 min Scan# 424
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 78 Resp: 367586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 15.2 | 31.6 |
| 51 | 22.5 | 10.5 | 21.7# |
| 52 | 22.6 | 9.5 | 19.7# |

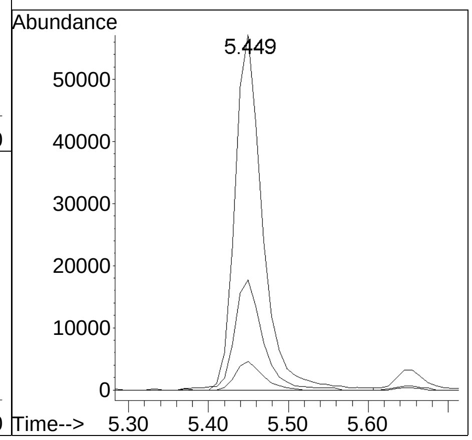


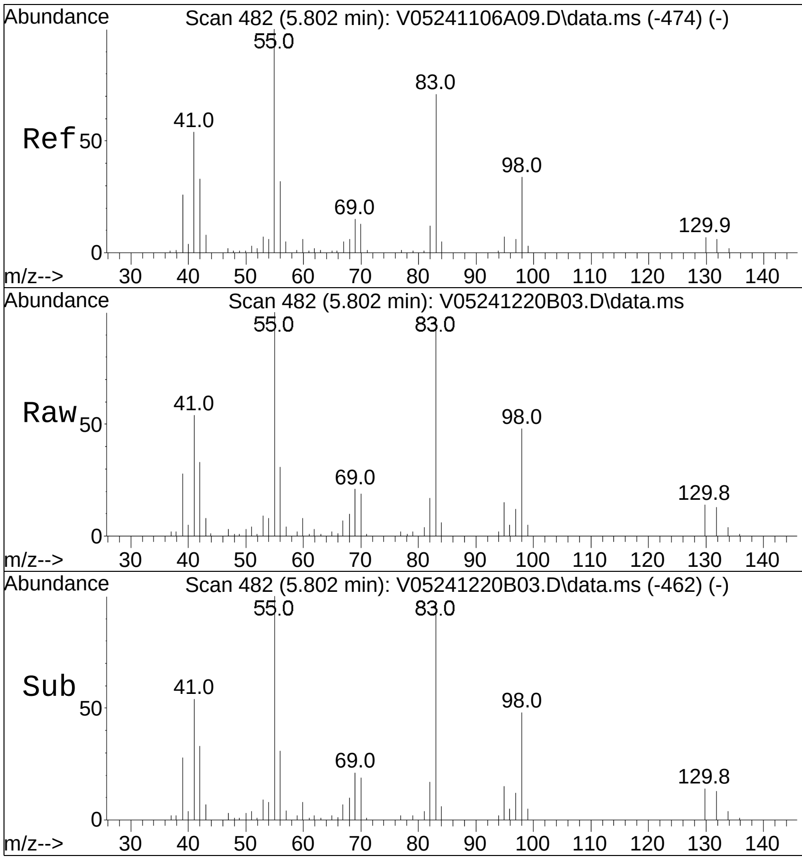



#44
1,2-Dichloroethane
Concen: 8.26 ug/L
RT: 5.449 min Scan# 446
Delta R.T. -0.001 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 62 Resp: 137622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.2 | 13.2 | 53.2 |
| 98 | 7.9 | 0.0 | 27.8 |

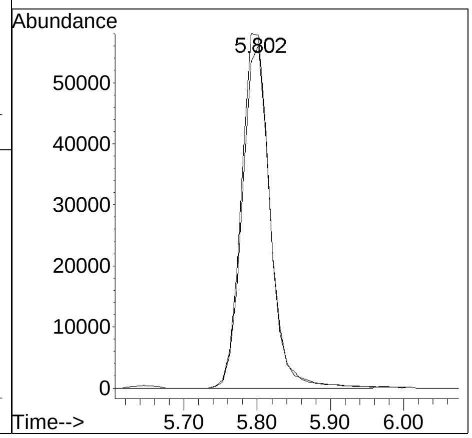


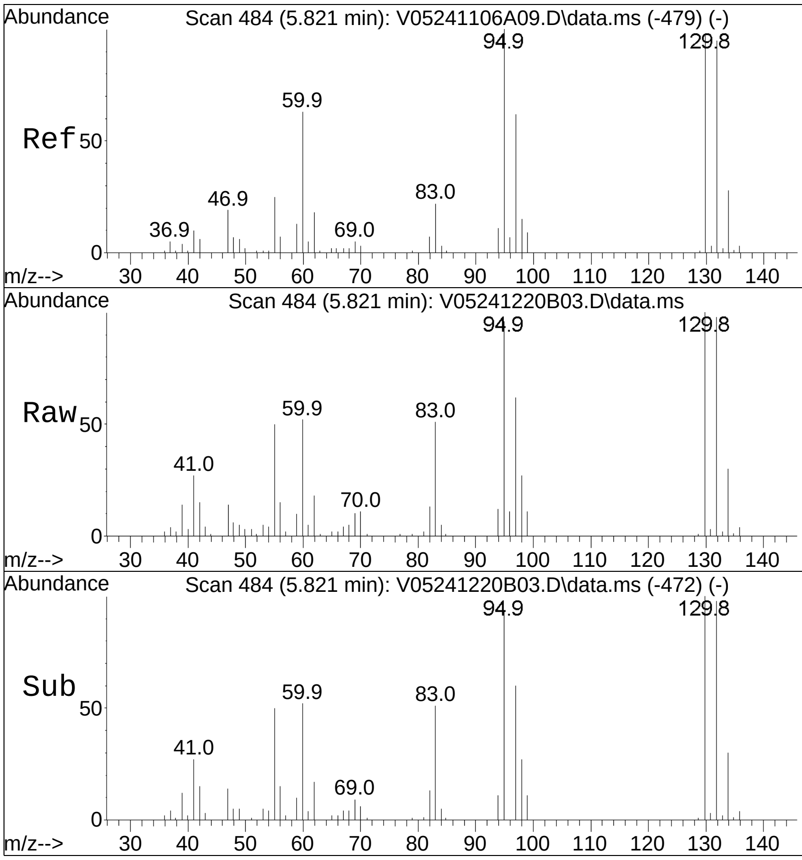



#47
Methyl cyclohexane
Concen: 8.03 ug/L
RT: 5.802 min Scan# 482
Delta R.T. -0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 83 Resp: 149503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 105.7 | 57.3 | 85.9# |

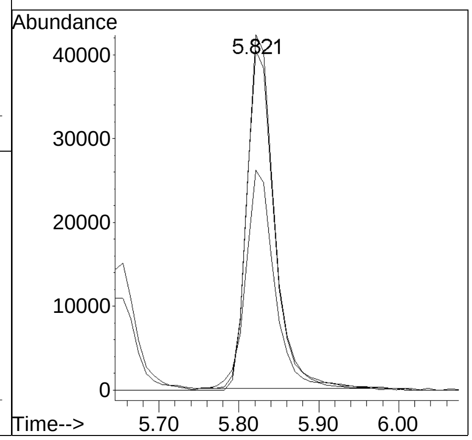


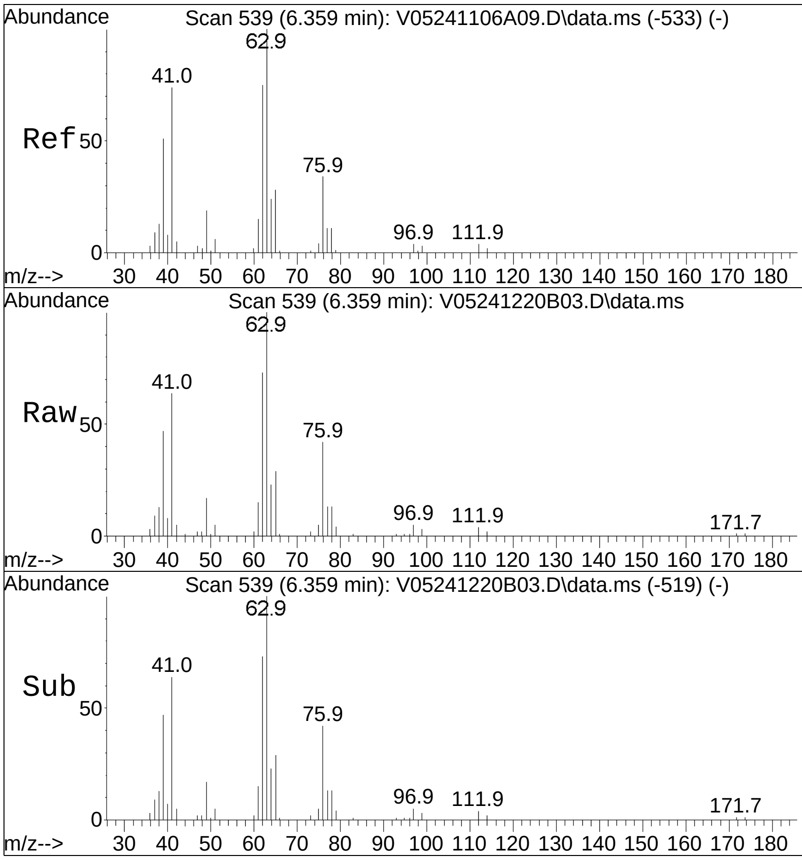



#48
Trichloroethene
Concen: 8.44 ug/L
RT: 5.821 min Scan# 484
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 95 Resp: 97245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 97 | 69.5 | 56.1 | 84.1 |
| 130 | 105.4 | 77.7 | 116.5 |

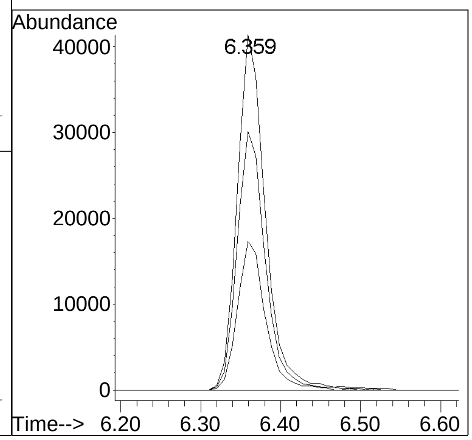


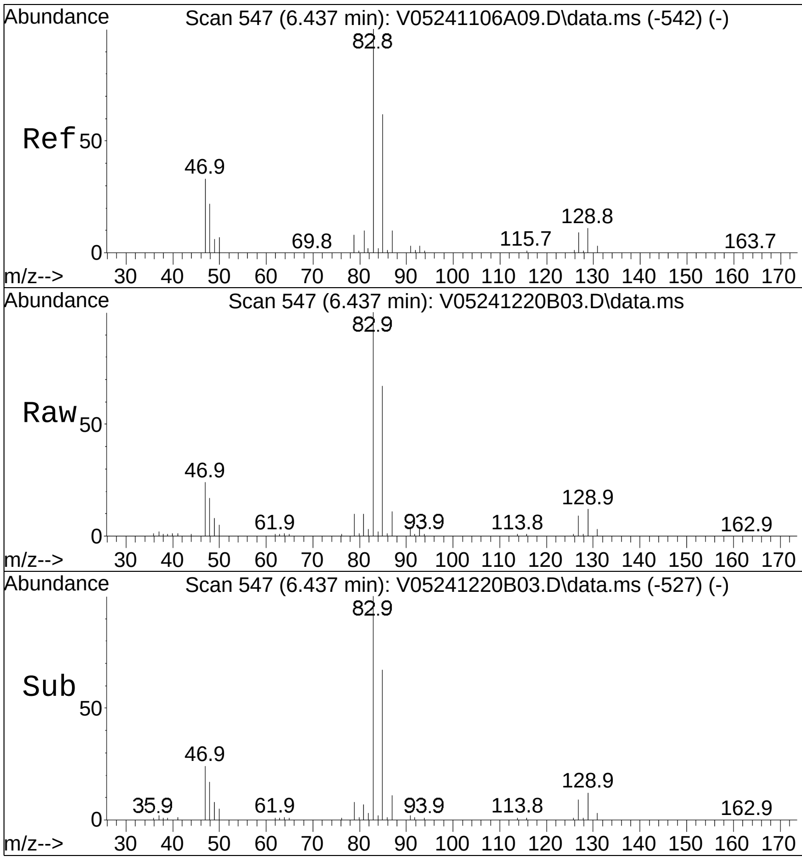



#51
1,2-Dichloropropane
Concen: 7.08 ug/L
RT: 6.359 min Scan# 539
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 63 Resp: 101733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 62 | 73.1 | 57.0 | 85.4 |
| 76 | 41.5 | 48.4 | 72.6# |

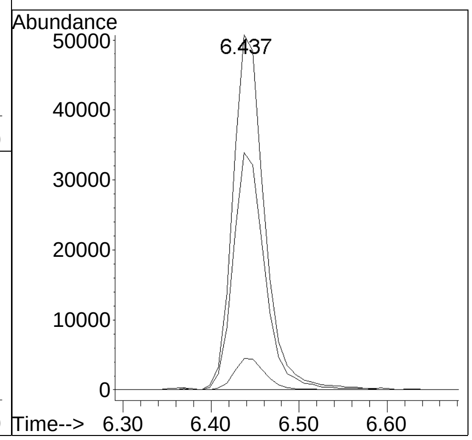


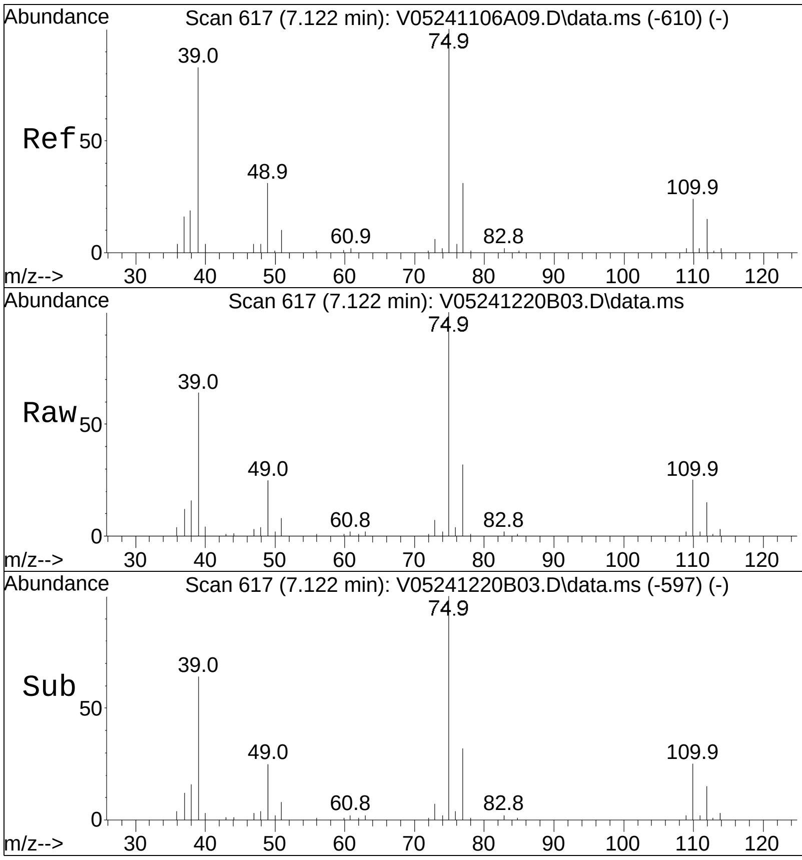



#54
Bromodichloromethane
Concen: 9.09 ug/L
RT: 6.437 min Scan# 547
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 83 Resp: 126923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.3 | 51.0 | 76.6 |
| 127 | 8.9 | 6.7 | 10.1 |

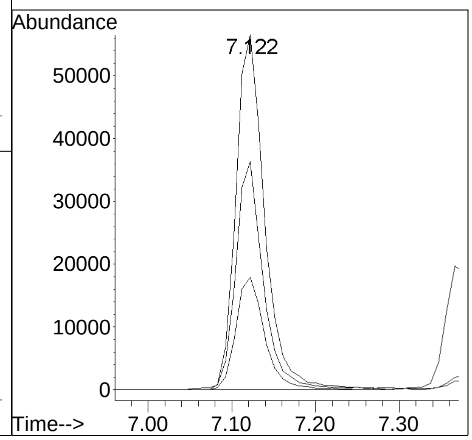


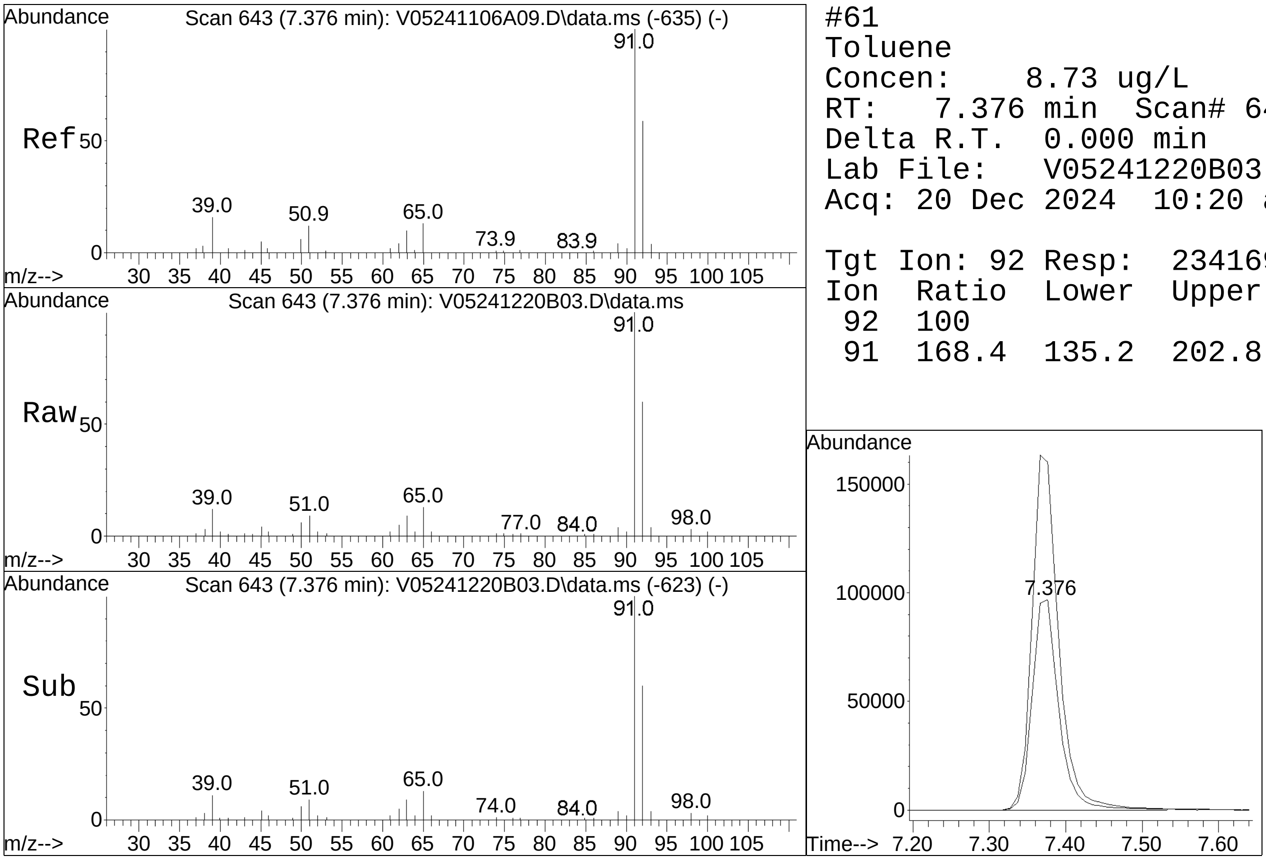



#58
cis-1,3-Dichloropropene
Concen:    8.56 ug/L
RT:   7.122 min  Scan# 617
Delta R.T.  0.000 min
Lab File:   V05241220B03.D
Acq: 20 Dec 2024  10:20 am

Tgt Ion: 75 Resp:  136217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.8 | 25.5 | 38.3 |
| 39 | 62.3 | 40.4 | 60.6# |

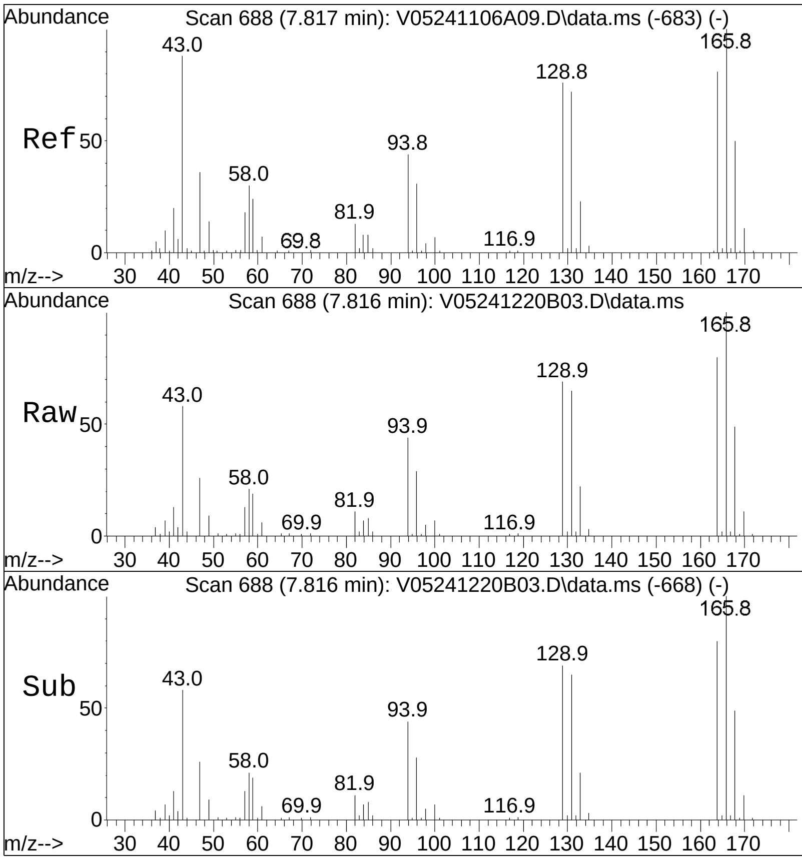





#61
Toluene
Concen: 8.73 ug/L
RT: 7.376 min Scan# 643
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 92 Resp: 234169

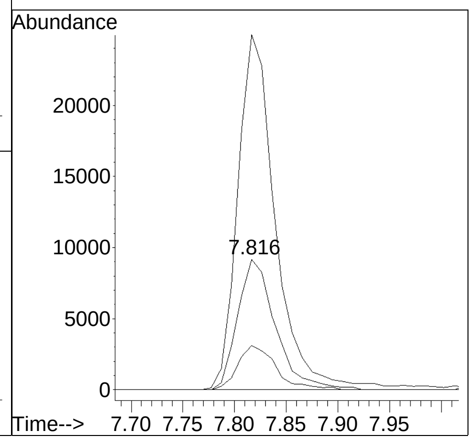
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 168.4 | 135.2 | 202.8 |

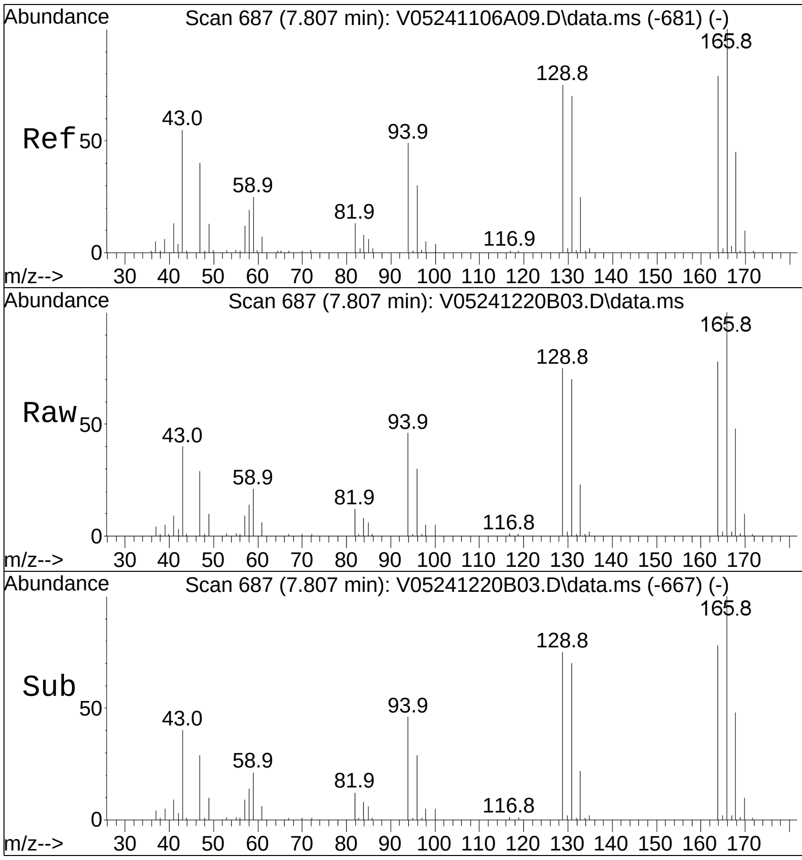



#62
4-Methyl-2-pentanone
Concen: 6.72 ug/L
RT: 7.816 min Scan# 688
Delta R.T. -0.001 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 58 Resp: 23428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 100 | 34.6 | 38.9 | 58.3# |
| 43 | 270.5 | 204.2 | 306.2 |

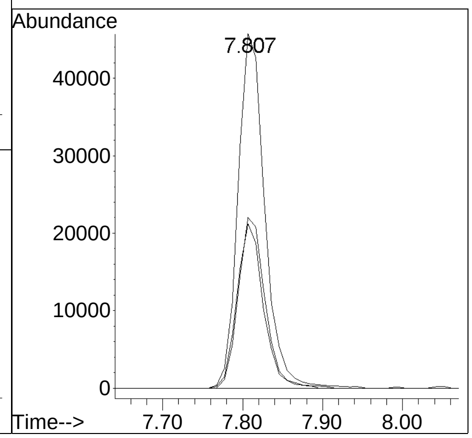


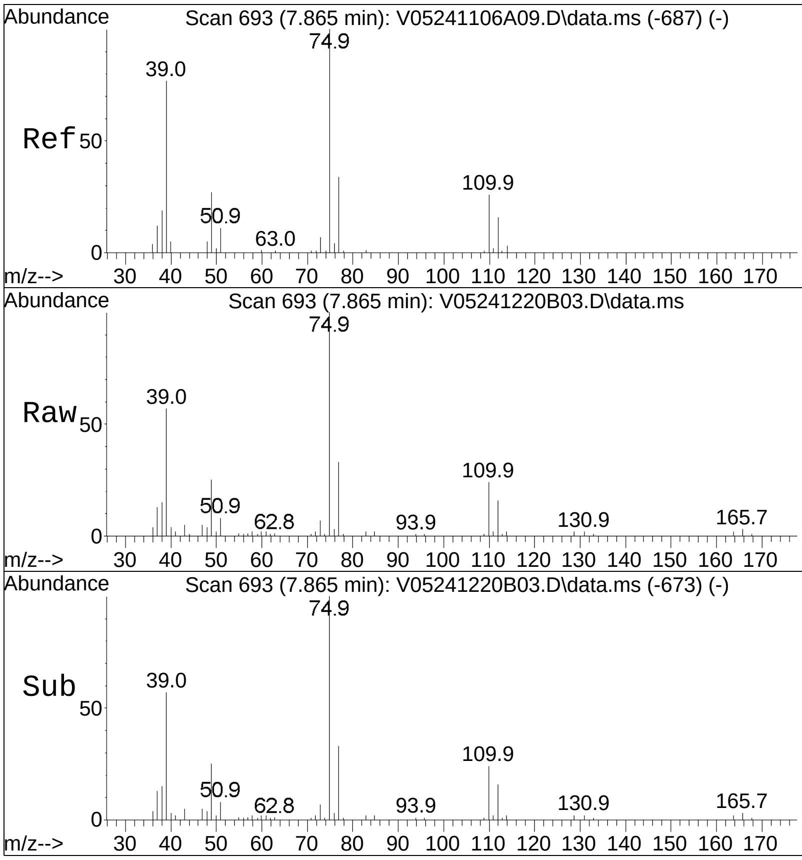



#63
Tetrachloroethene
Concen: 9.08 ug/L
RT: 7.807 min Scan# 687
Delta R.T. -0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion:166 Resp: 106735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 168 | 48.2 | 30.2 | 70.2 |
| 94 | 45.7 | 32.5 | 72.5 |

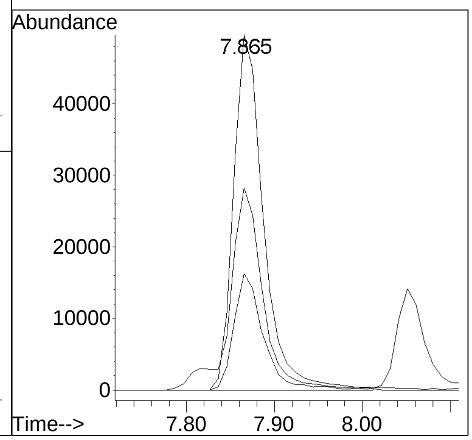


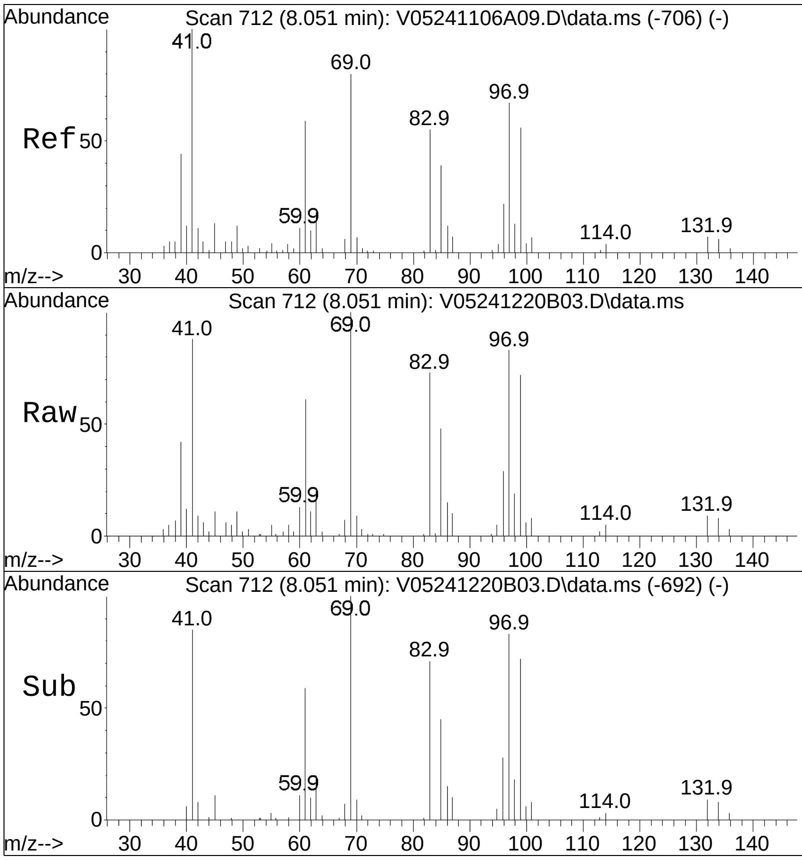



#65
trans-1,3-Dichloropropene
Concen: 9.03 ug/L
RT: 7.865 min Scan# 693
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 75 Resp: 117912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.0 | 11.5 | 51.5 |
| 39 | 62.5 | 29.3 | 69.3 |

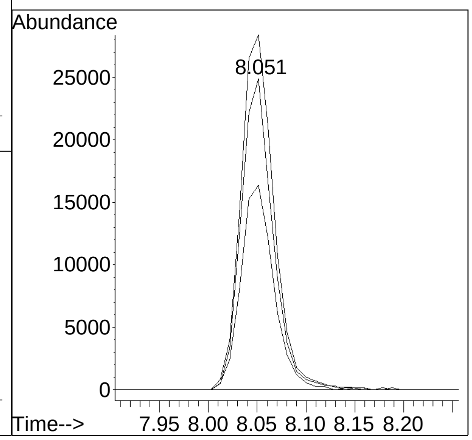


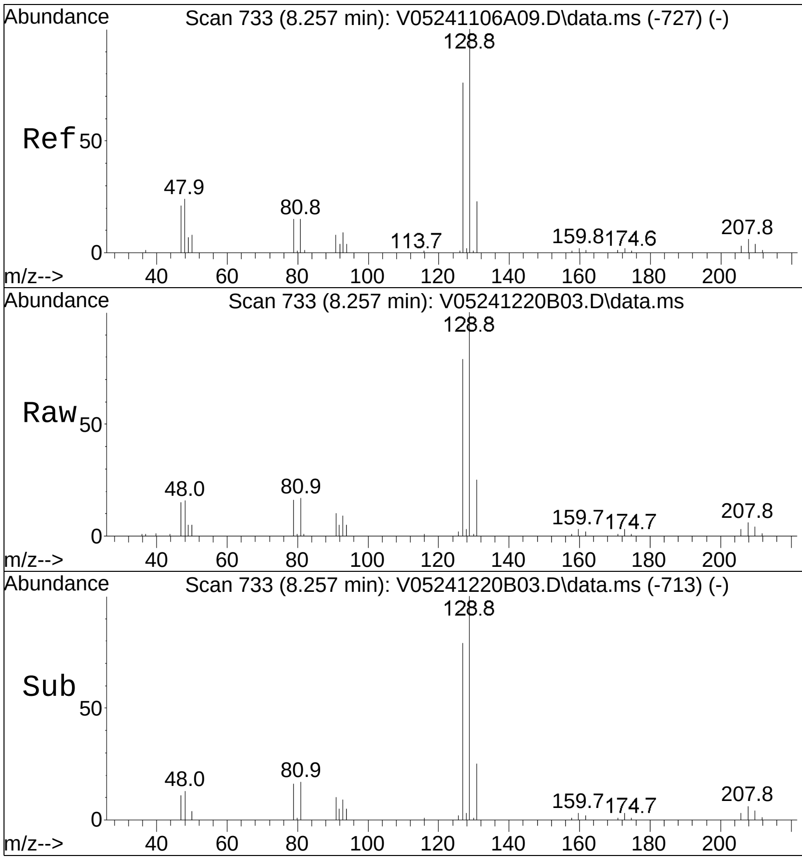



#68
1,1,2-Trichloroethane
Concen: 9.11 ug/L
RT: 8.051 min Scan# 712
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 83 Resp: 56487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 97 | 119.6 | 102.2 | 142.2 |
| 85 | 68.5 | 47.5 | 87.5 |

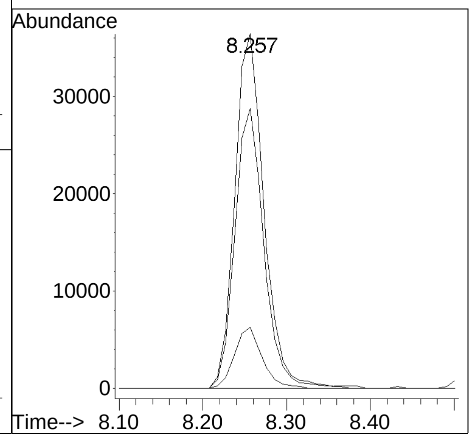


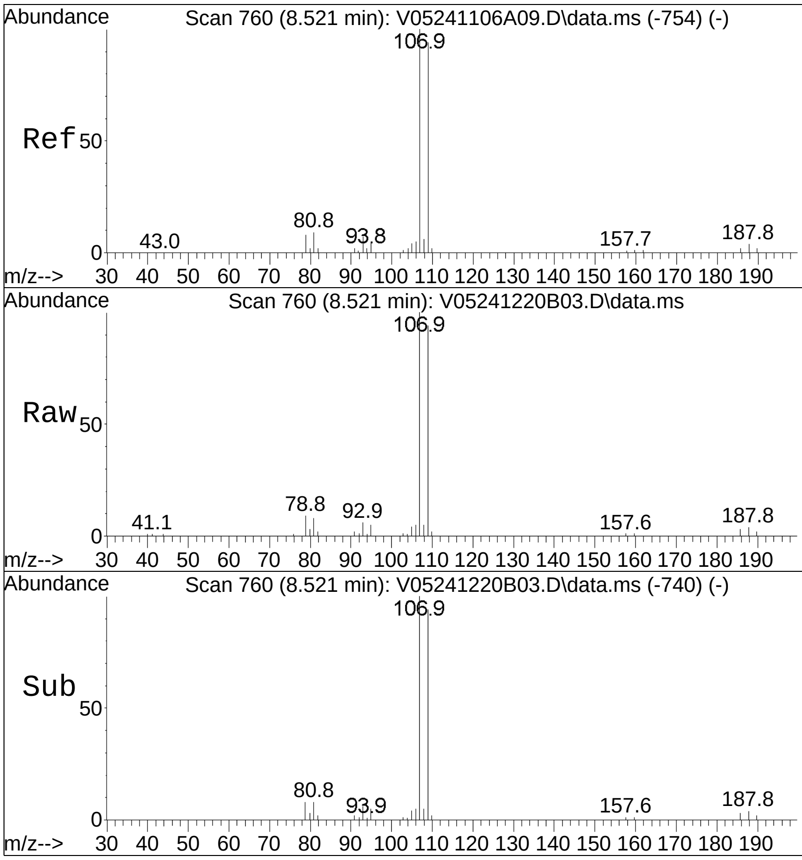



#69
Chlorodibromomethane
Concen: 9.02 ug/L
RT: 8.257 min Scan# 733
Delta R.T. -0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion:129 Resp: 88140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 81 | 16.1 | 0.0 | 37.0 |
| 127 | 78.3 | 58.3 | 98.3 |

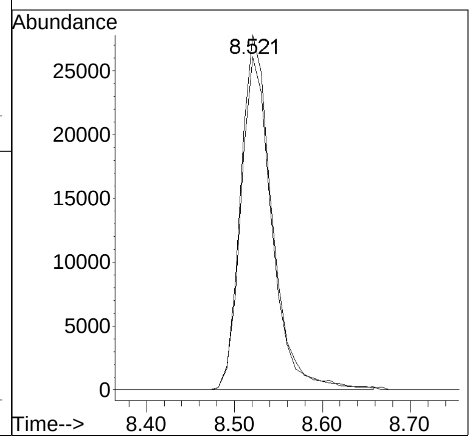


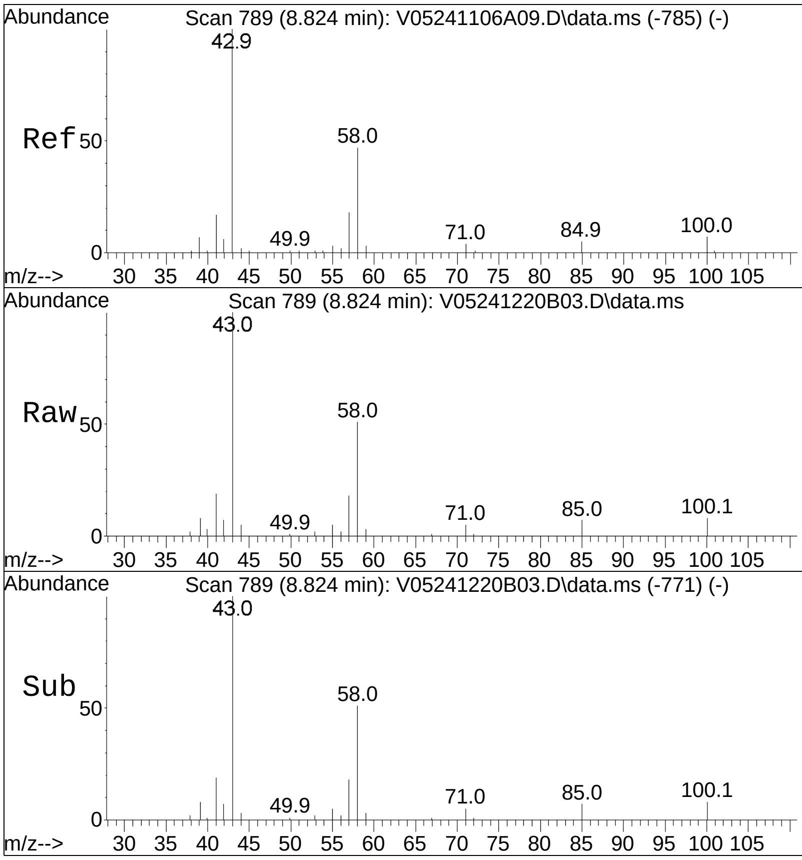



#71
1,2-Dibromoethane
Concen: 9.05 ug/L
RT: 8.521 min Scan# 760
Delta R.T. -0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion:107 Resp: 69387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.8 | 75.0 | 112.6 |

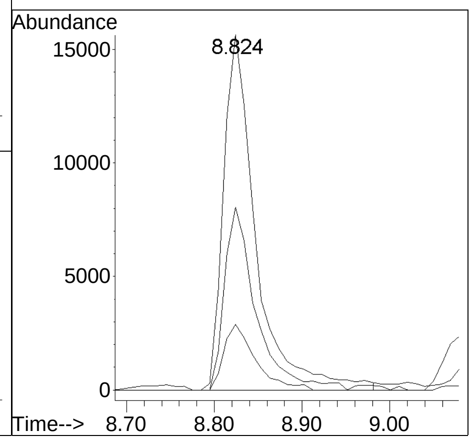


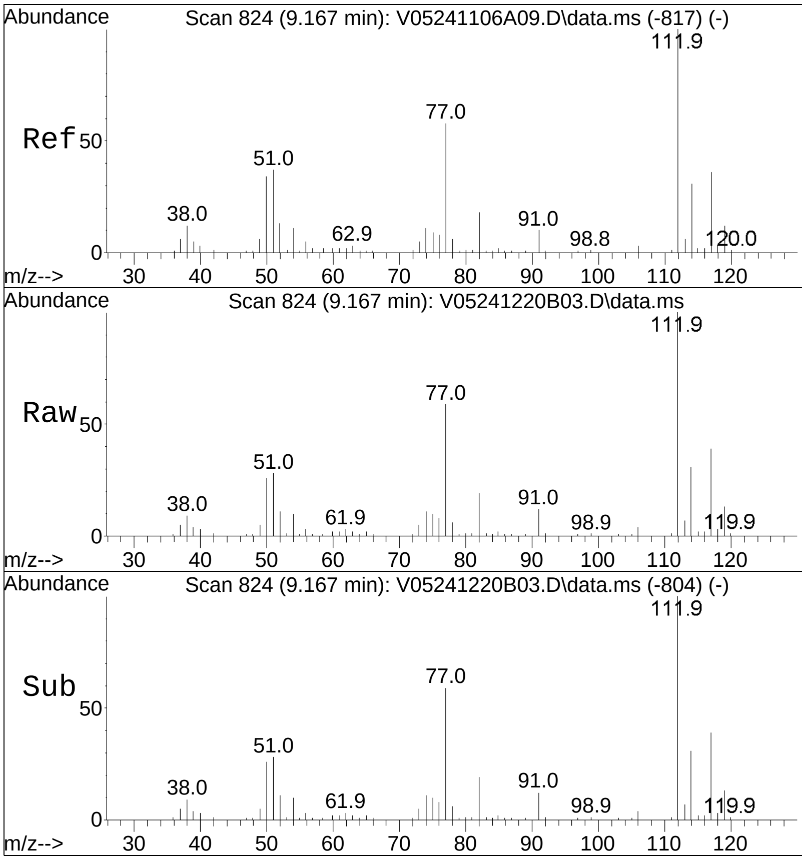



#72
2-Hexanone
Concen: 6.33 ug/L
RT: 8.824 min Scan# 789
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 43 Resp: 40225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 50.1 | 42.3 | 63.5 |
| 57 | 17.9 | 15.6 | 23.4 |

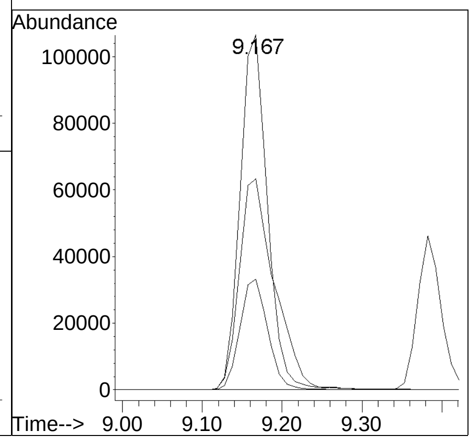


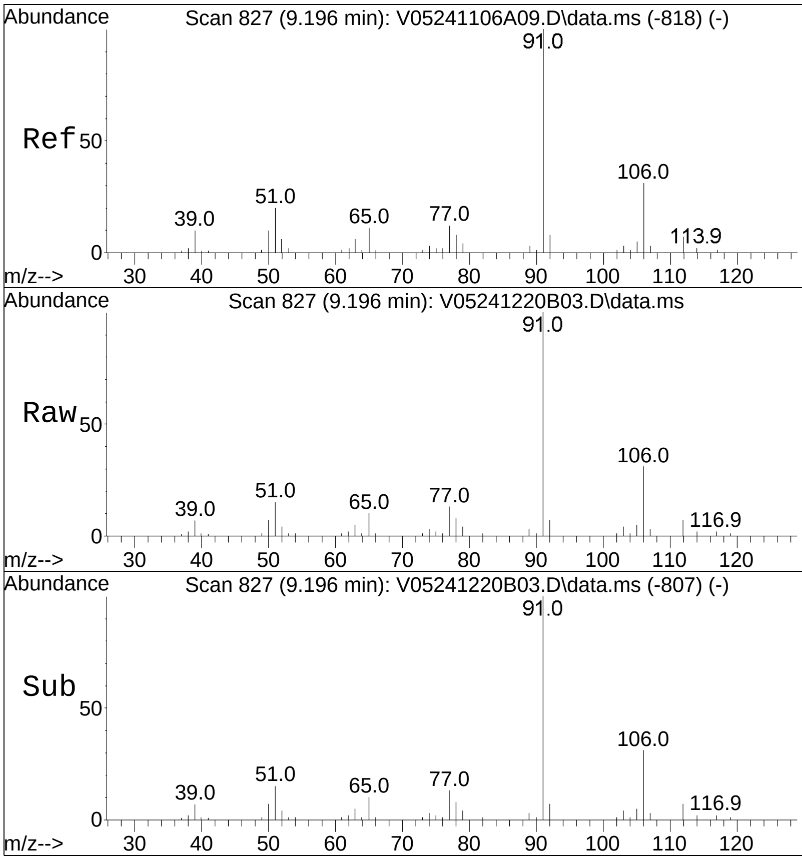



#73
Chlorobenzene
Concen: 8.79 ug/L
RT: 9.167 min Scan# 824
Delta R.T. -0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion:112 Resp: 255106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 76.2 | 66.1 | 99.1 |
| 114 | 31.8 | 25.4 | 38.0 |

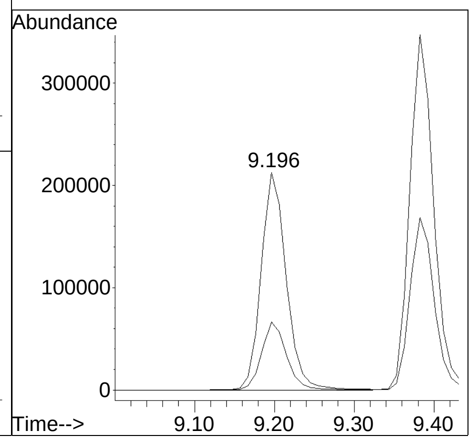


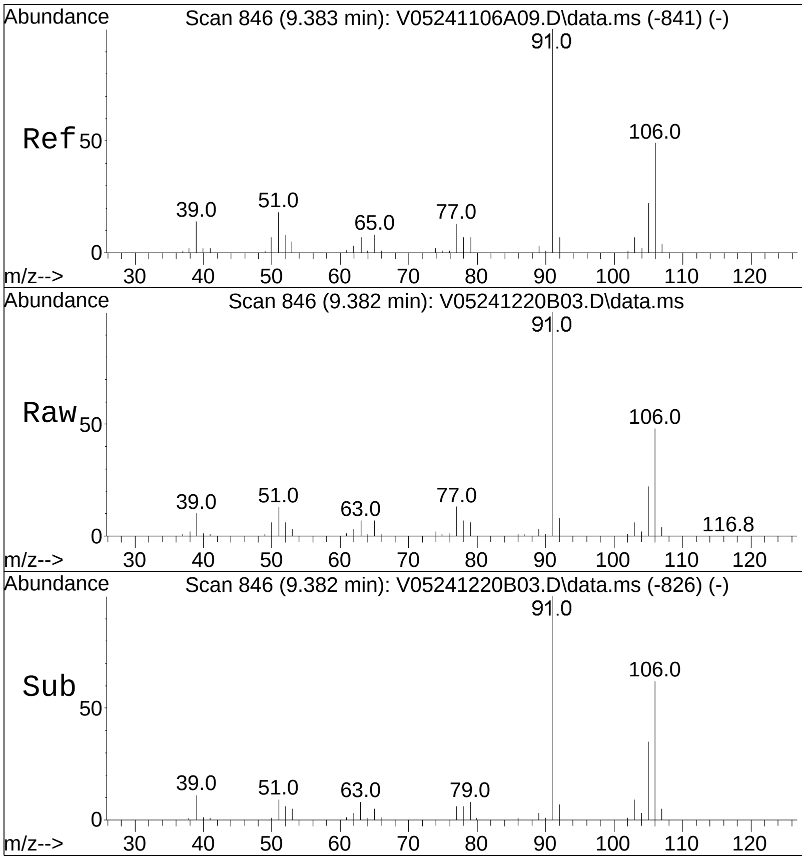



#74
Ethylbenzene
Concen: 8.70 ug/L
RT: 9.196 min Scan# 827
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 91 Resp: 464838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.9 | 22.9 | 34.3 |

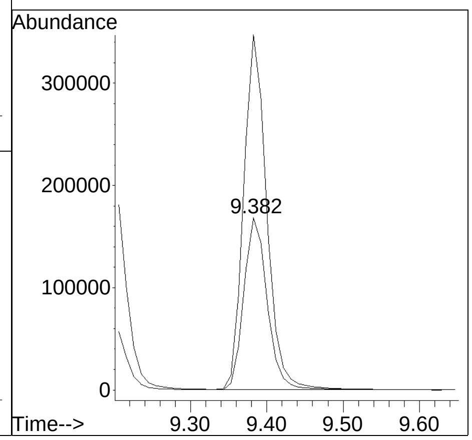


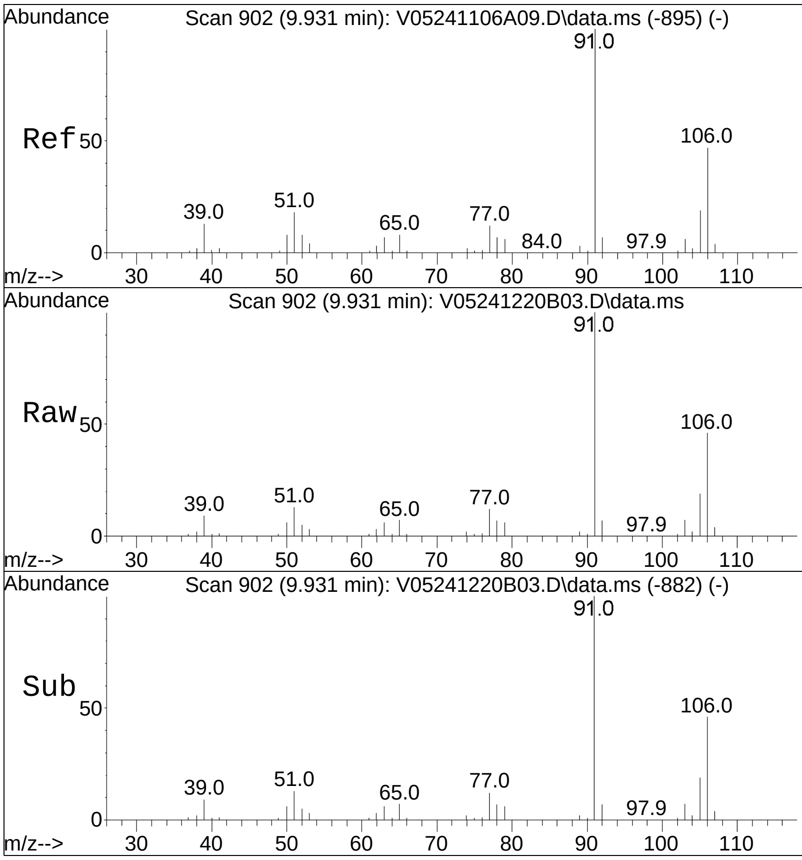



#76
p/m Xylene
Concen: 17.72 ug/L
RT: 9.382 min Scan# 846
Delta R.T. -0.001 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion:106 Resp: 358640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 202.3 | 177.2 | 265.8 |

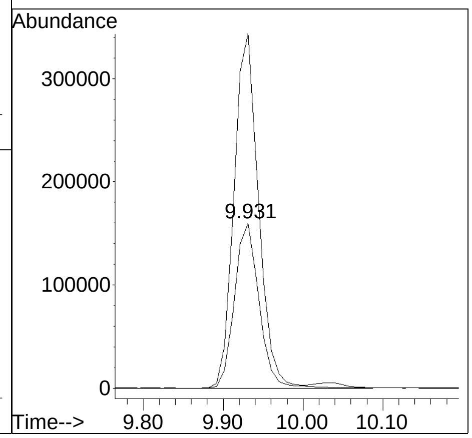


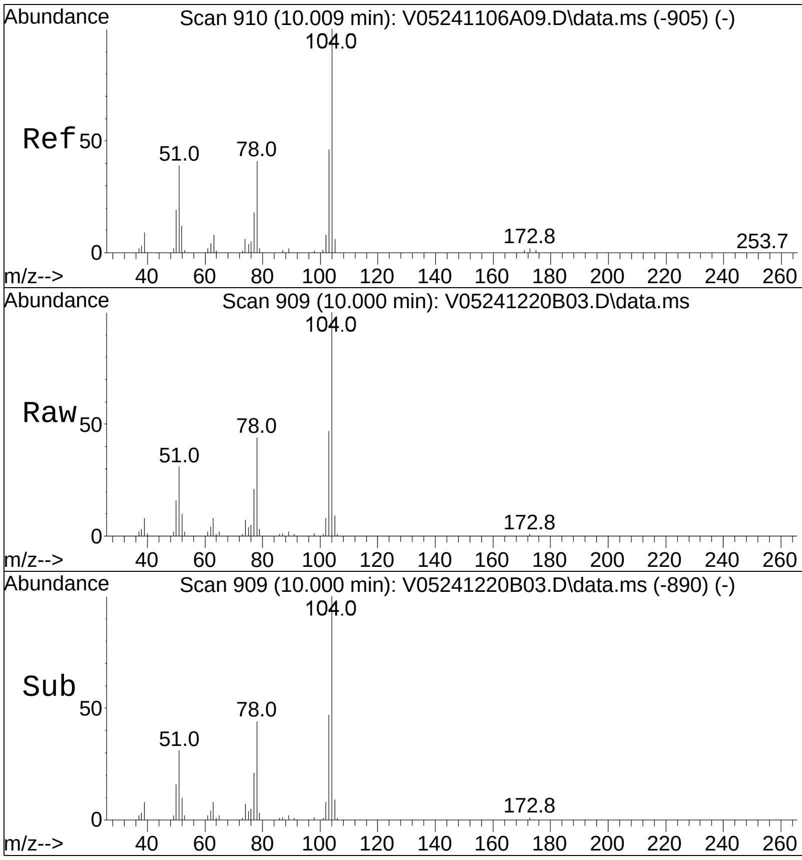



#77
o Xylene
Concen: 17.63 ug/L
RT: 9.931 min Scan# 902
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion:106 Resp: 341514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 213.6 | 187.0 | 280.6 |

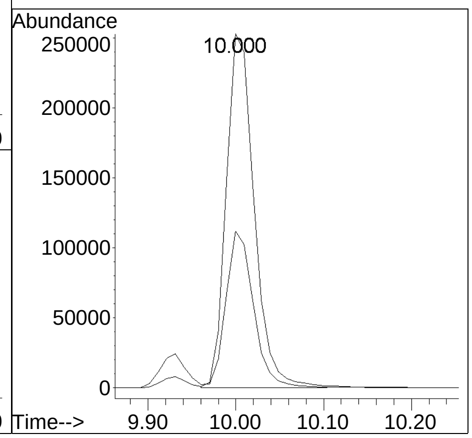


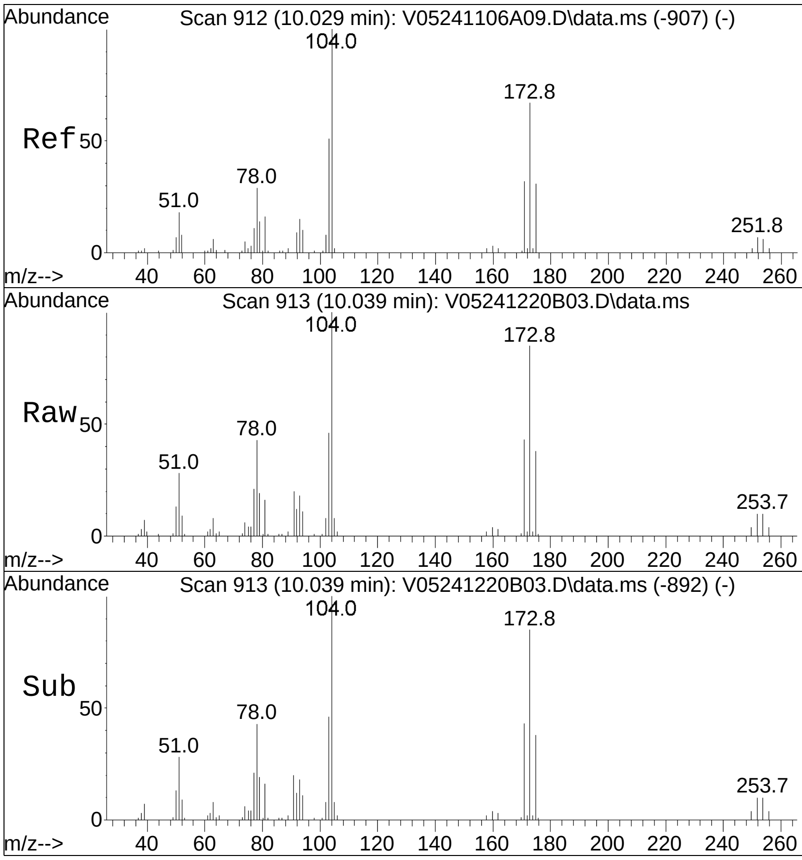



#78
Styrene
Concen: 17.86 ug/L
RT: 10.000 min Scan# 909
Delta R.T. -0.009 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion:104 Resp: 558974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 44.0 | 39.6 | 59.4 |

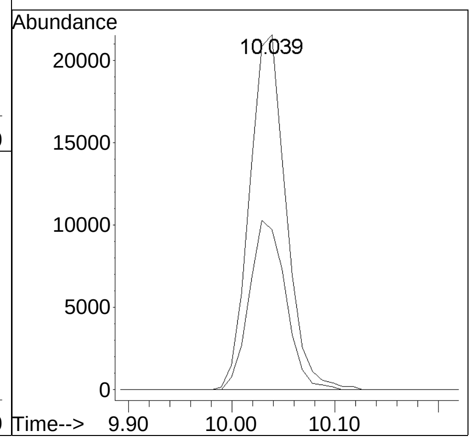


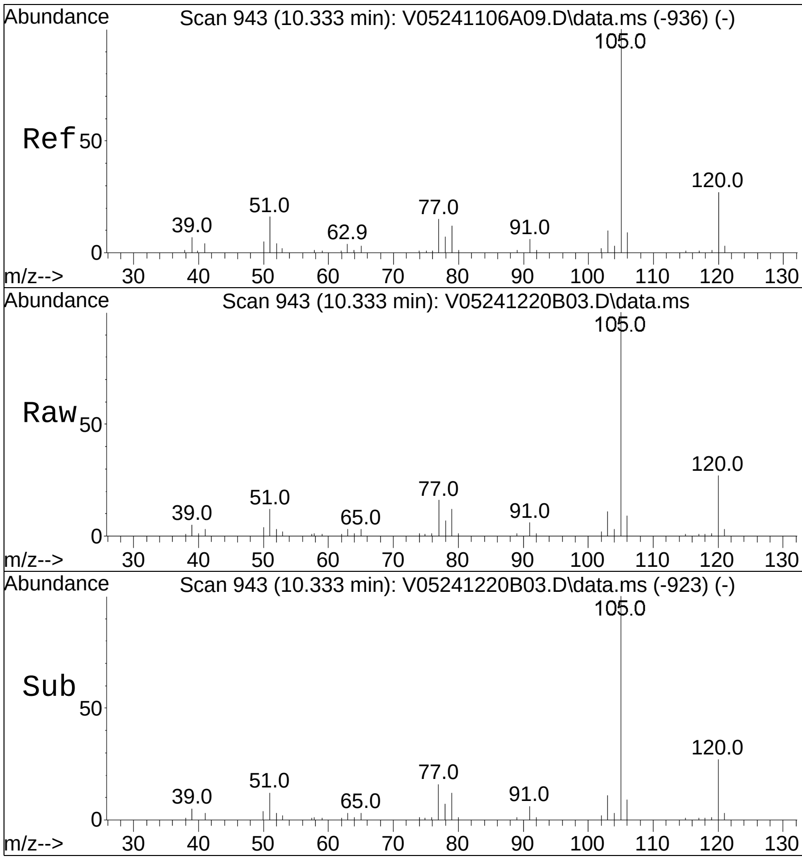



#80
Bromoform
Concen: 9.16 ug/L
RT: 10.039 min Scan# 913
Delta R.T. 0.010 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion:173 Resp: 52895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.9 | 26.6 | 66.6 |

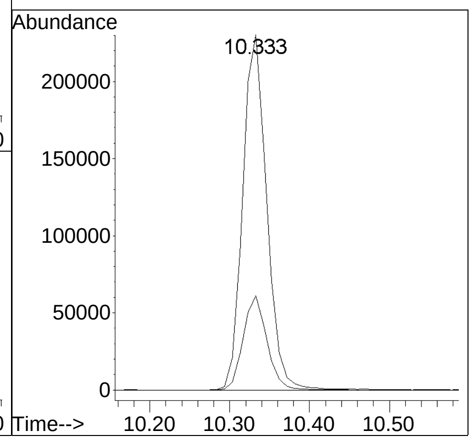


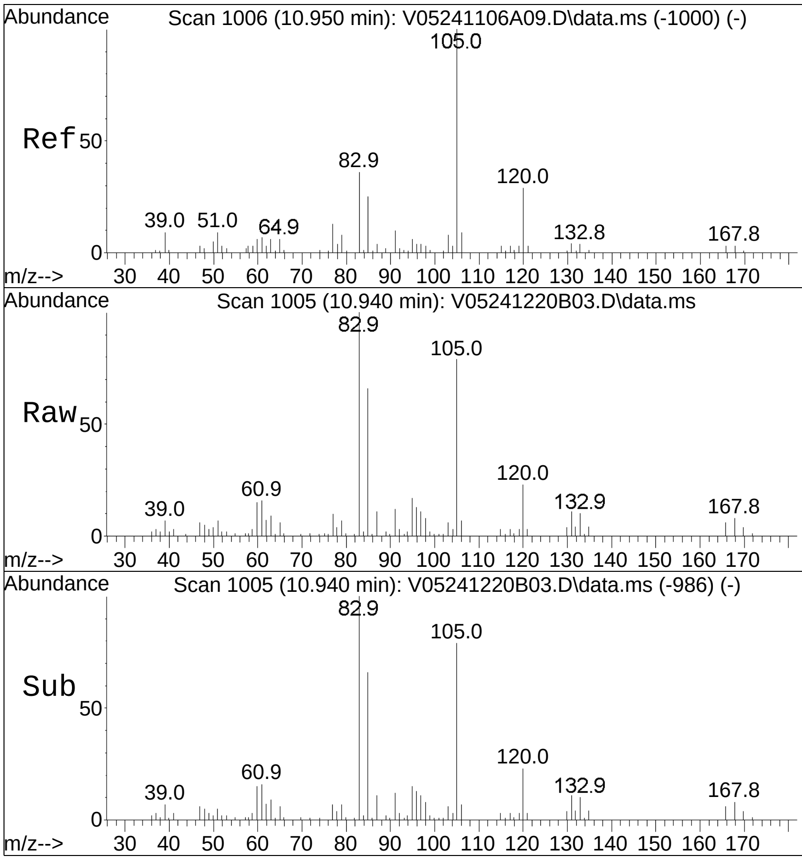



#82
Isopropylbenzene
Concen: 7.92 ug/L
RT: 10.333 min Scan# 943
Delta R.T. -0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion:105 Resp: 480444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.2 | 4.8 | 44.8 |

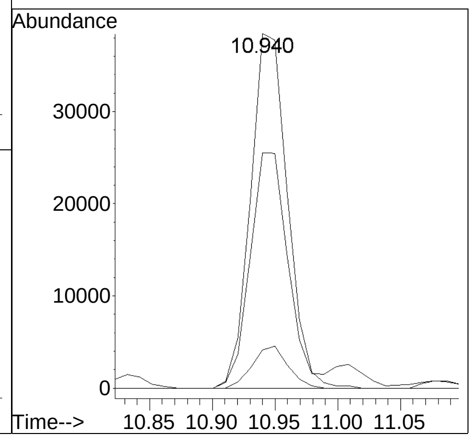


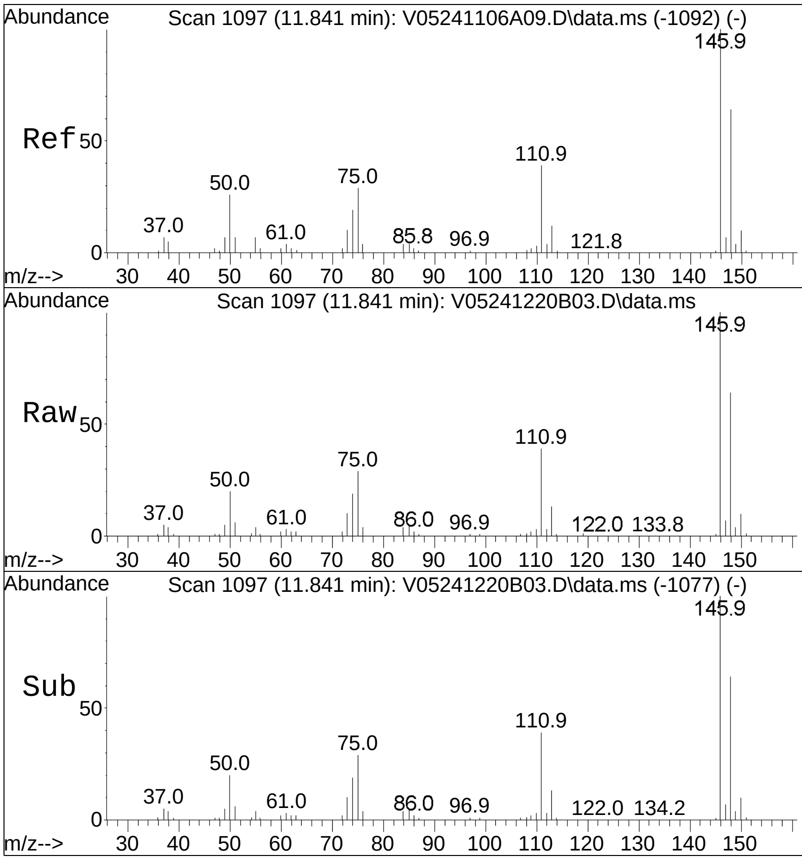



#87
1,1,2,2-Tetrachloroethane
Concen: 8.29 ug/L
RT: 10.940 min Scan# 1005
Delta R.T. -0.010 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion: 83 Resp: 78889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.3 | 0.0 | 30.4 |
| 85 | 68.7 | 46.4 | 86.4 |

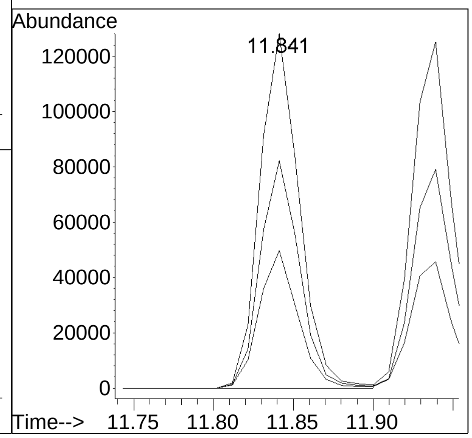


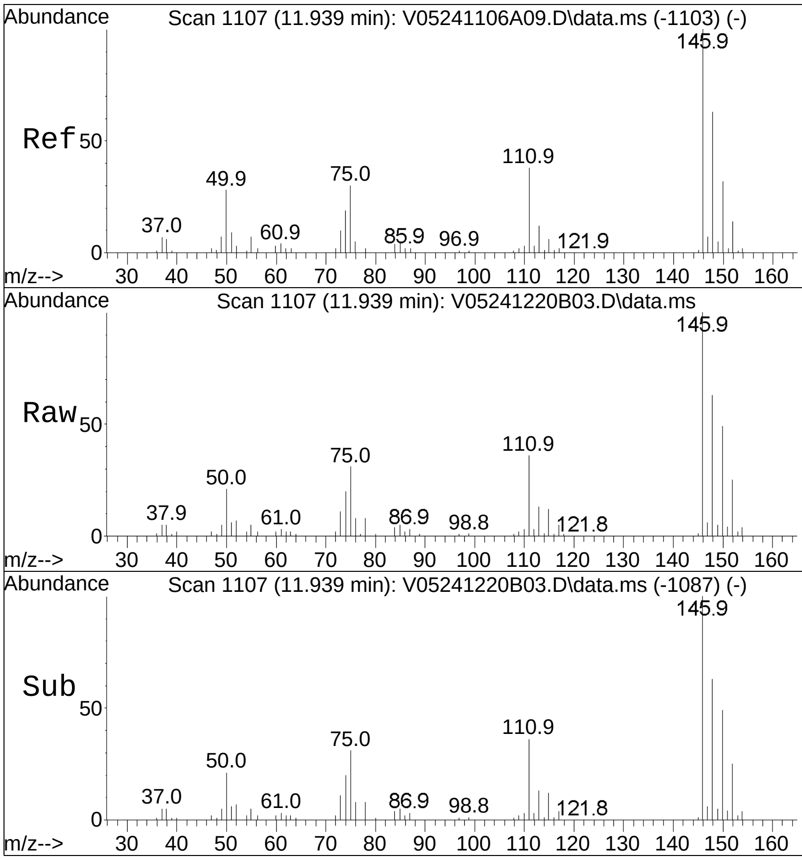



#100
1,3-Dichlorobenzene
Concen: 8.47 ug/L
RT: 11.841 min Scan# 1097
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion:146 Resp: 217948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.6 | 28.0 | 58.1 |
| 148 | 64.2 | 41.6 | 86.4 |

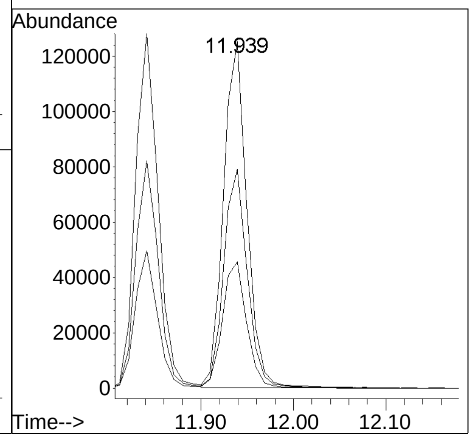


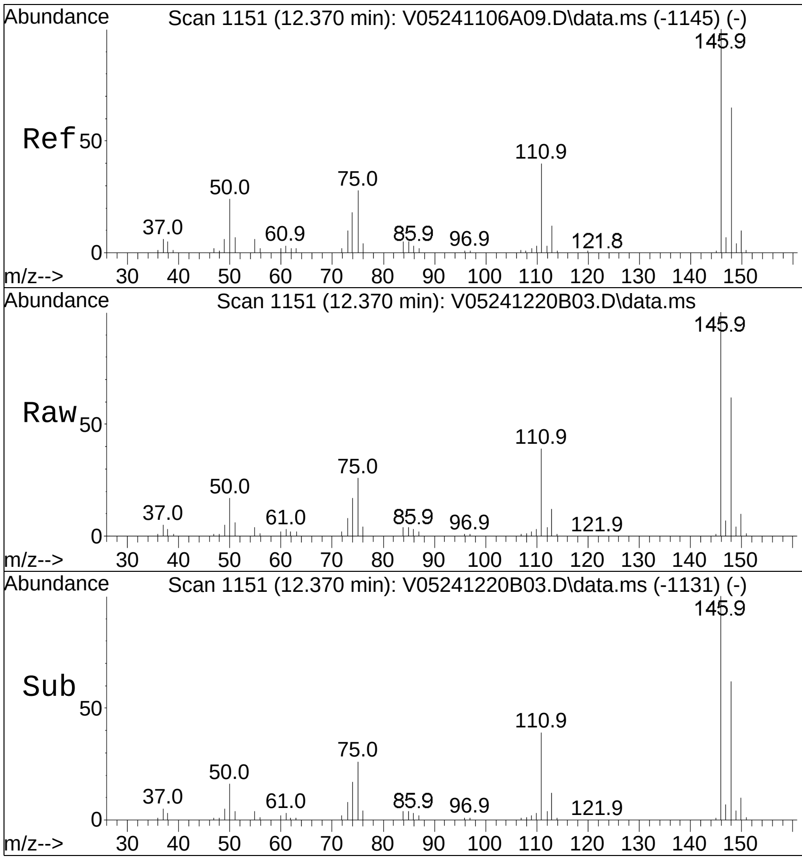



#101
1,4-Dichlorobenzene
Concen: 8.56 ug/L
RT: 11.939 min Scan# 1107
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion:146 Resp: 220096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.9 | 33.8 | 50.6 |
| 148 | 64.2 | 51.0 | 76.6 |

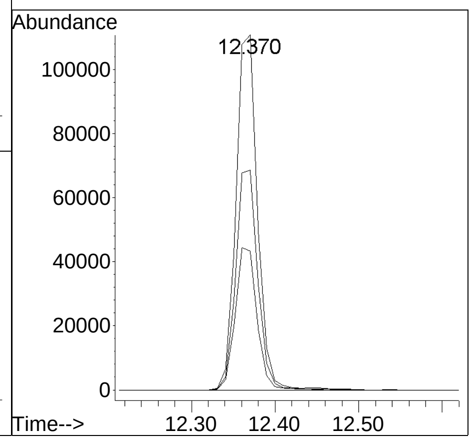


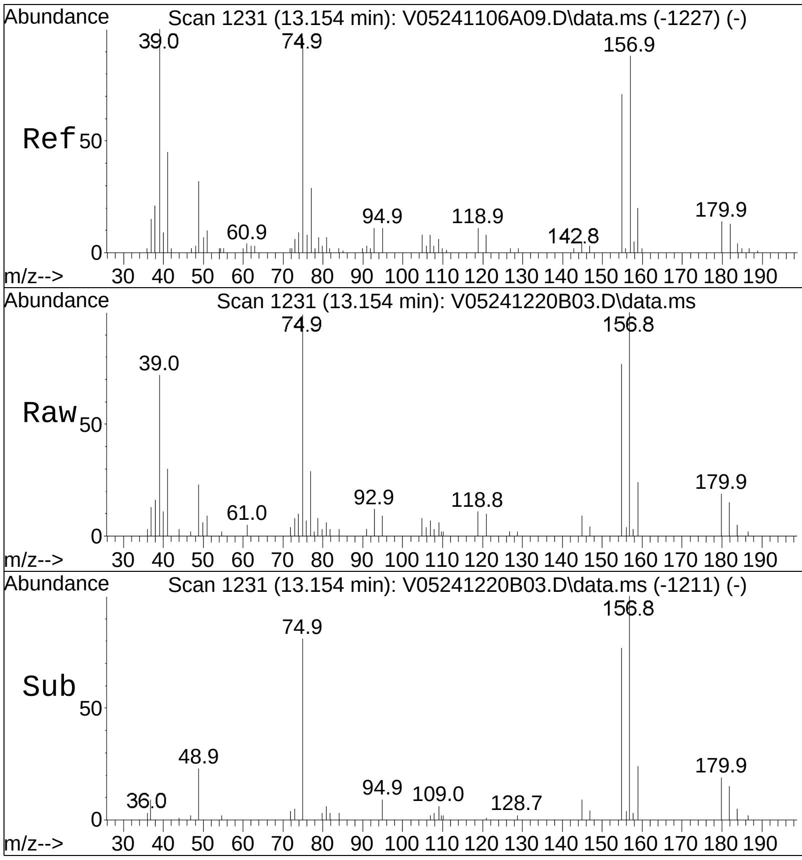



#104
1,2-Dichlorobenzene
Concen: 8.56 ug/L
RT: 12.370 min Scan# 1151
Delta R.T. 0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion:146 Resp: 198599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.5 | 29.1 | 60.5 |
| 148 | 63.5 | 41.7 | 86.7 |

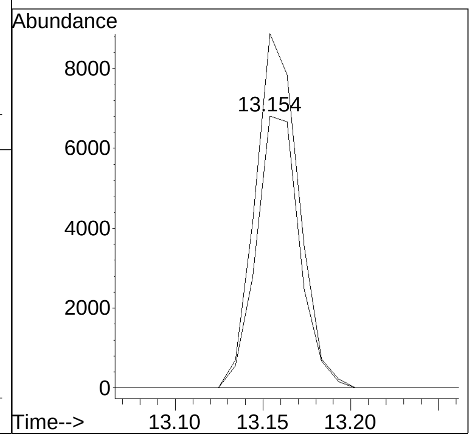


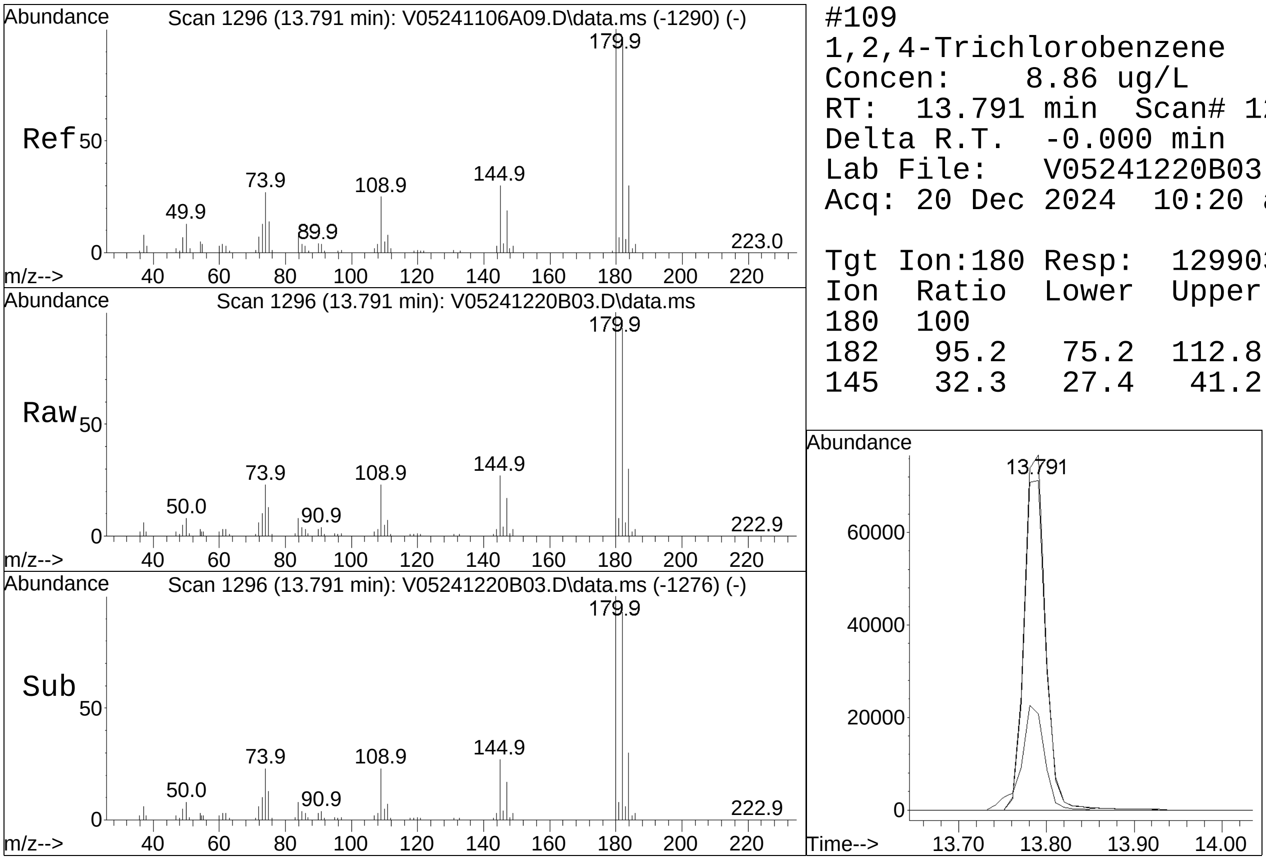



#106
1,2-Dibromo-3-chloropropane
Concen: 7.91 ug/L
RT: 13.154 min Scan# 1231
Delta R.T. -0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion:155 Resp: 11819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 155 | 100 | | |
| 157 | 129.6 | 105.0 | 157.6 |

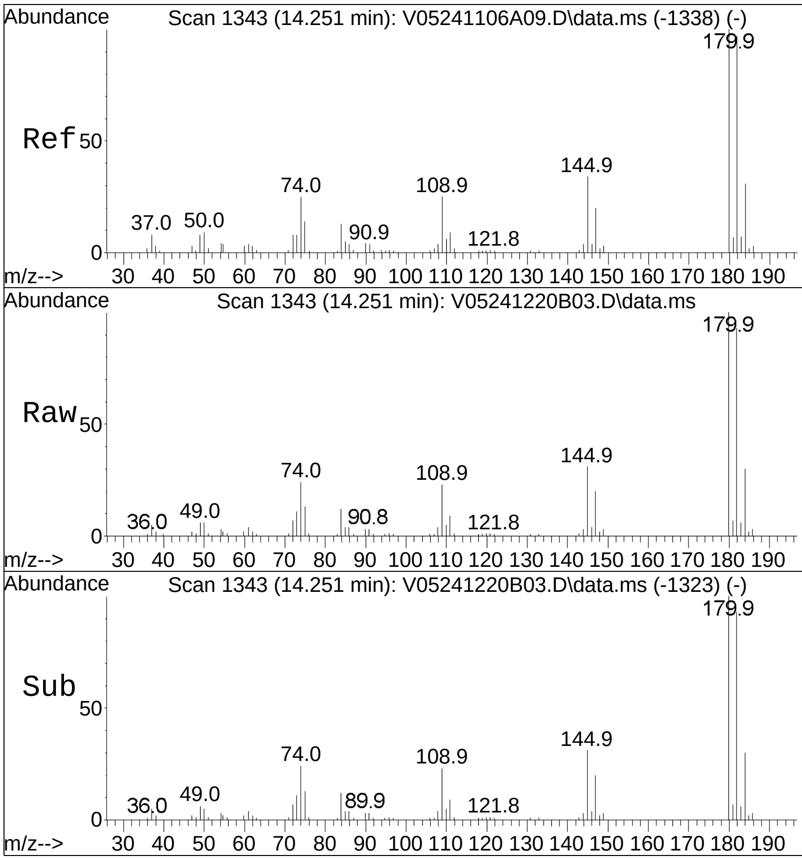





#109
1,2,4-Trichlorobenzene
Concen: 8.86 ug/L
RT: 13.791 min Scan# 1296
Delta R.T. -0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion:180 Resp: 129903

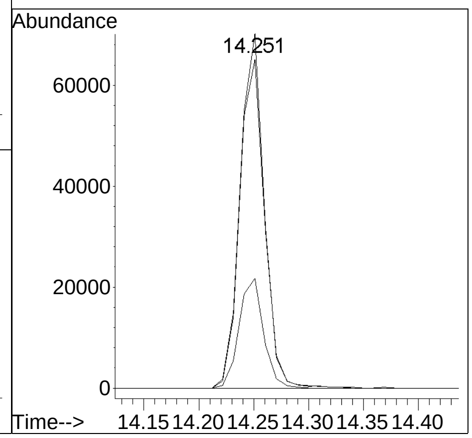
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.2 | 75.2 | 112.8 |
| 145 | 32.3 | 27.4 | 41.2 |




#111
1,2,3-Trichlorobenzene
Concen: 8.68 ug/L
RT: 14.251 min Scan# 1343
Delta R.T. -0.000 min
Lab File: V05241220B03.D
Acq: 20 Dec 2024 10:20 am

Tgt Ion:180 Resp: 107337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.7 | 75.5 | 113.3 |
| 145 | 31.3 | 26.5 | 39.7 |



Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : K:\VOA105\2024\241220B\ | QMethod | : V105_241106A_8260.m |
| Data File | : V05241220B03.D | Operator | : VOA105:PID |
| Date Inj'd | : 12/20/2024 10:20 am | Instrument | : VOA105 |
| Sample | : WG2012422-4,31,10,10 | Quant Date | : 12/20/2024 11:11 am |

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

Quantitation Report (QT Reviewed)

```
Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A02.D
Acq On    : 21 Dec 2024   5:33 am
Operator  : VOA101:PID
Sample    : WG2012561-4,31,10,10
Misc      : WG2012561,ICAL21767
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Dec 21 06:00:06 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241221A\V01241221A01.D
Sub List     : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ------------------------------------------------------------------------------
 Internal Standards
 1) Fluorobenzene               5.899   96    208721    10.000 ug/L     0.00
   Standard Area 1 = 209706                 Recovery   =   99.53%
59) Chlorobenzene-d5            9.412  117    162560    10.000 ug/L     0.00
   Standard Area 1 = 164101                 Recovery   =   99.06%
79) 1,4-Dichlorobenzene-d4     12.140  152     86018    10.000 ug/L     0.00
   Standard Area 1 = 88109                 Recovery   =   97.63%

 System Monitoring Compounds
36) Dibromofluoromethane        5.101  113     54411     9.653 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =   96.53%
43) 1,2-Dichloroethane-d4       5.617   65     60273     9.805 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =   98.05%
60) Toluene-d8                  7.575   98    205470    10.027 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =  100.27%
83) 4-Bromofluorobenzene       10.924   95     77242     9.672 ug/L    0.00
   Spiked Amount    10.000   Range  70 - 130    Recovery   =   96.72%

 Target Compounds                                                    Qvalue
 2) Dichlorodifluoromethane     1.621   85     60537      9.356 ug/L       99
 3) Chloromethane               1.808   50     63080      9.492 ug/L       97
 4) Vinyl chloride              1.875   62     76351     10.935 ug/L       99
 5) Bromomethane                2.173   94     24181      6.897 ug/L       98
 6) Chloroethane                2.282   64     60524     13.830 ug/L       96
 7) Trichlorofluoromethane      2.416  101    102944     11.338 ug/L       98
10) 1,1-Dichloroethene          2.893   96     57720     11.030 ug/L       83
11) Carbon disulfide            2.923   76    176472     11.011 ug/L       99
12) Freon-113                   2.926  101     62667     11.325 ug/L       80
15) Methylene chloride          3.431   84     46716      9.213 ug/L       82
17) Acetone                     3.484   43      8548      7.465 ug/L #     85
18) trans-1,2-Dichloroethene    3.581   96     47377      9.246 ug/L       95
19) Methyl acetate              3.598   43     20544      8.663 ug/L #     91
20) Methyl tert-butyl ether     3.682   73     90391      8.258 ug/L #     86
23) 1,1-Dichloroethane          4.153   63     95566      9.714 ug/L       98
28) cis-1,2-Dichloroethene      4.666   96     52766      9.430 ug/L       95
30) Bromochloromethane          4.848  128     23979      9.229 ug/L       86
31) Cyclohexane                 4.859   56     98507      9.487 ug/L       88
32) Chloroform                  4.926   83     85256      9.357 ug/L       95
34) Carbon tetrachloride        5.057  117     65139      8.720 ug/L       99
```

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A02.D
Acq On : 21 Dec 2024 5:33 am
Operator : VOA101:PID
Sample : WG2012561-4,31,10,10
Misc : WG2012561,ICAL21767
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 21 06:00:06 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\241221A\V01241221A01.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 | 5.121 | 97 | 76530 | 9.184 ug/L | 95 |
| 39) 2-Butanone | 5.218 | 43 | 13802 | 9.064 ug/L # | 79 |
| 41) Benzene | 5.481 | 78 | 196497 | 9.819 ug/L | 94 |
| 44) 1,2-Dichloroethane | 5.687 | 62 | 62994 | 9.587 ug/L | 100 |
| 47) Methyl cyclohexane | 6.063 | 83 | 82574 | 8.941 ug/L | 86 |
| 48) Trichloroethene | 6.074 | 95 | 53201 | 9.556 ug/L | 99 |
| 51) 1,2-Dichloropropane | 6.613 | 63 | 52976 | 9.884 ug/L | 97 |
| 54) Bromodichloromethane | 6.688 | 83 | 63709 | 9.216 ug/L | 99 |
| 58) cis-1,3-Dichloropropene | 7.371 | 75 | 70130 | 8.864 ug/L # | 86 |
| 61) Toluene | 7.633 | 92 | 127257 | 9.734 ug/L | 99 |
| 62) 4-Methyl-2-pentanone | 8.074 | 58 | 9691 | 8.496 ug/L | 84 |
| 63) Tetrachloroethene | 8.085 | 166 | 49629 | 9.037 ug/L | 96 |
| 65) trans-1,3-Dichloropropene | 8.116 | 75 | 56750 | 8.833 ug/L | 88 |
| 68) 1,1,2-Trichloroethane | 8.305 | 83 | 29794 | 9.834 ug/L | 97 |
| 69) Chlorodibromomethane | 8.515 | 129 | 41190 | 8.849 ug/L | 96 |
| 71) 1,2-Dibromoethane | 8.788 | 107 | 33762 | 9.555 ug/L | 99 |
| 72) 2-Hexanone | 9.083 | 43 | 17319M1 | 8.725 ug/L | |
| 73) Chlorobenzene | 9.435 | 112 | 144148 | 9.639 ug/L | 98 |
| 74) Ethylbenzene | 9.468 | 91 | 253944 | 9.849 ug/L | 99 |
| 76) p/m Xylene | 9.655 | 106 | 197732 | 19.278 ug/L | 97 |
| 77) o Xylene | 10.199 | 106 | 187427 | 19.163 ug/L | 99 |
| 78) Styrene | 10.271 | 104 | 318987 | 19.706 ug/L | 97 |
| 80) Bromoform | 10.299 | 173 | 20446 | 8.403 ug/L | 100 |
| 82) Isopropylbenzene | 10.592 | 105 | 256625 | 9.801 ug/L | 99 |
| 87) 1,1,2,2-Tetrachloroethane | 11.169 | 83 | 43009 | 10.646 ug/L | 99 |
| 100) 1,3-Dichlorobenzene | 12.065 | 146 | 109532 | 10.053 ug/L | 100 |
| 101) 1,4-Dichlorobenzene | 12.157 | 146 | 112071 | 10.167 ug/L | 98 |
| 104) 1,2-Dichlorobenzene | 12.580 | 146 | 95956 | 10.125 ug/L | 99 |
| 106) 1,2-Dibromo-3-chloropr... | 13.367 | 155 | 4314 | 8.478 ug/L | 99 |
| 109) 1,2,4-Trichlorobenzene | 14.000 | 180 | 44913 | 9.231 ug/L | 98 |
| 111) 1,2,3-Trichlorobenzene | 14.460 | 180 | 34608 | 9.254 ug/L | 97 |

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

Quantitation Report (QT Reviewed)

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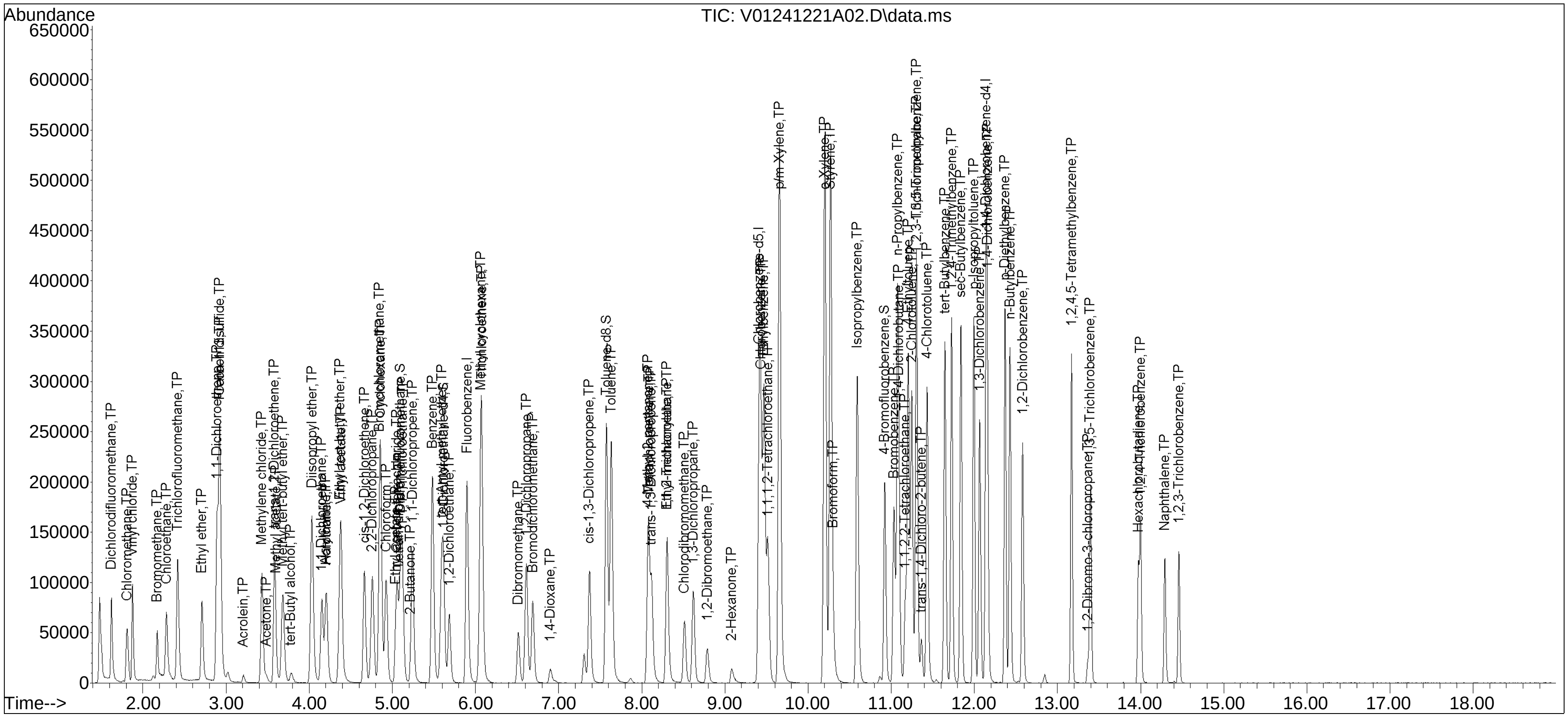
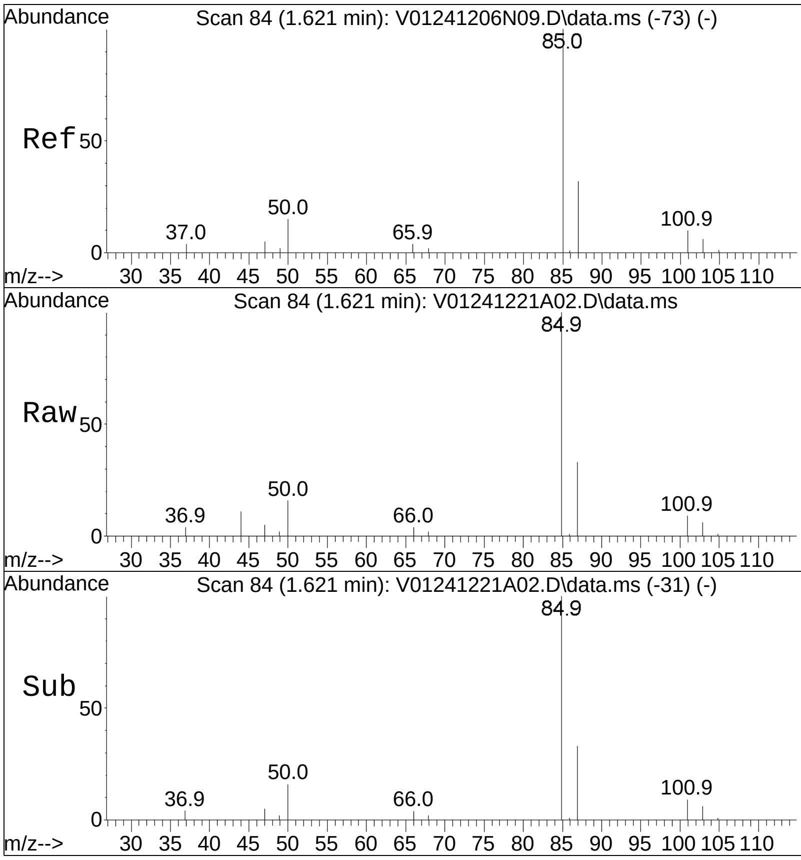
Data Path : K:\VOA101\2024\241221A\
Data File : V01241221A02.D
Acq On    : 21 Dec 2024   5:33 am
Operator  : VOA101:PID
Sample    : WG2012561-4,31,10,10
Misc      : WG2012561,ICAL21767
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Dec 21 06:00:06 2024
Quant Method : K:\VOA101\2024\241221A\V101_241206N_8260.m
Quant Title  : VOLATILES BY GC/MS
QLast Update : Mon Dec 09 07:45:49 2024
Response via : Initial Calibration

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

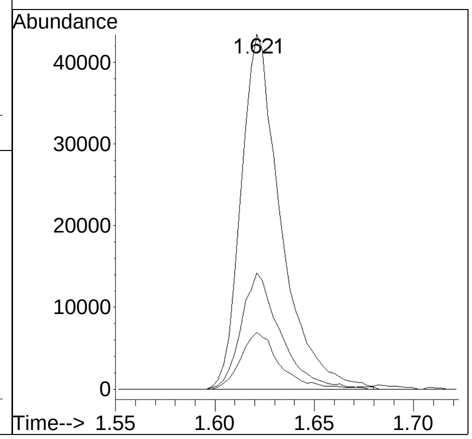


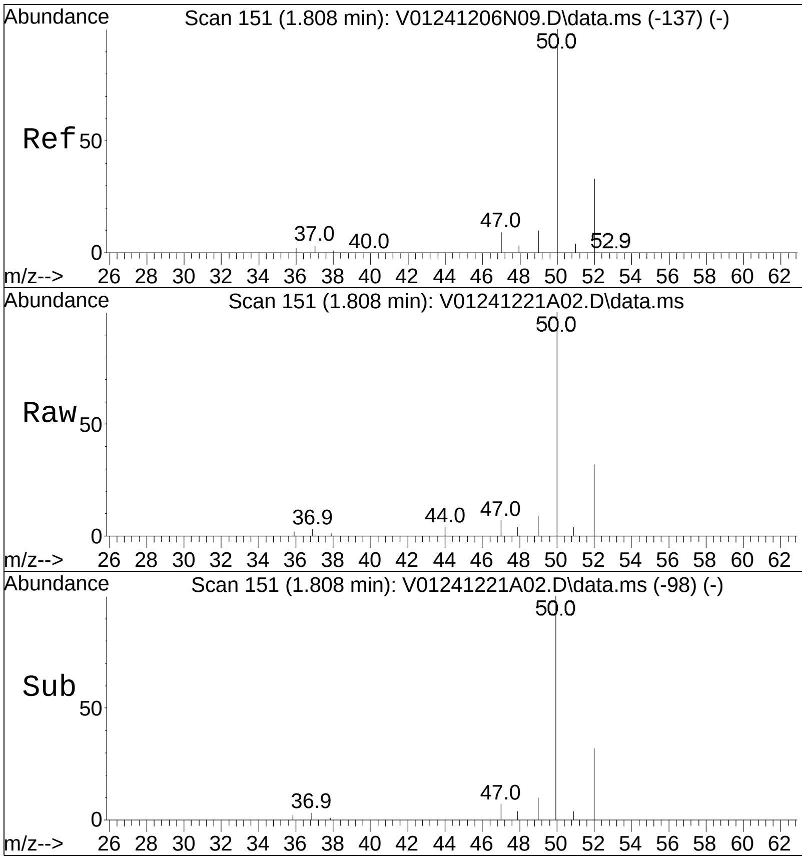



#2
Dichlorodifluoromethane
Concen: 9.36 ug/L
RT: 1.621 min Scan# 84
Delta R.T. 0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 85 Resp: 60537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.2 | 20.9 | 43.5 |
| 50 | 15.7 | 9.1 | 18.9 |

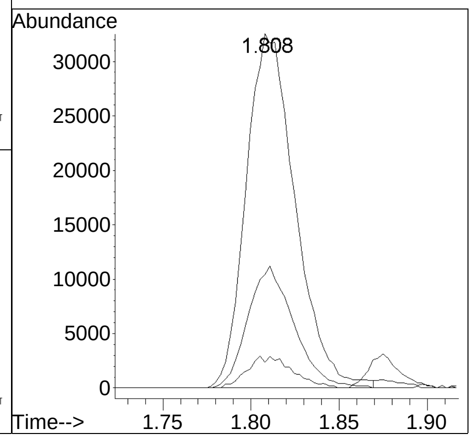


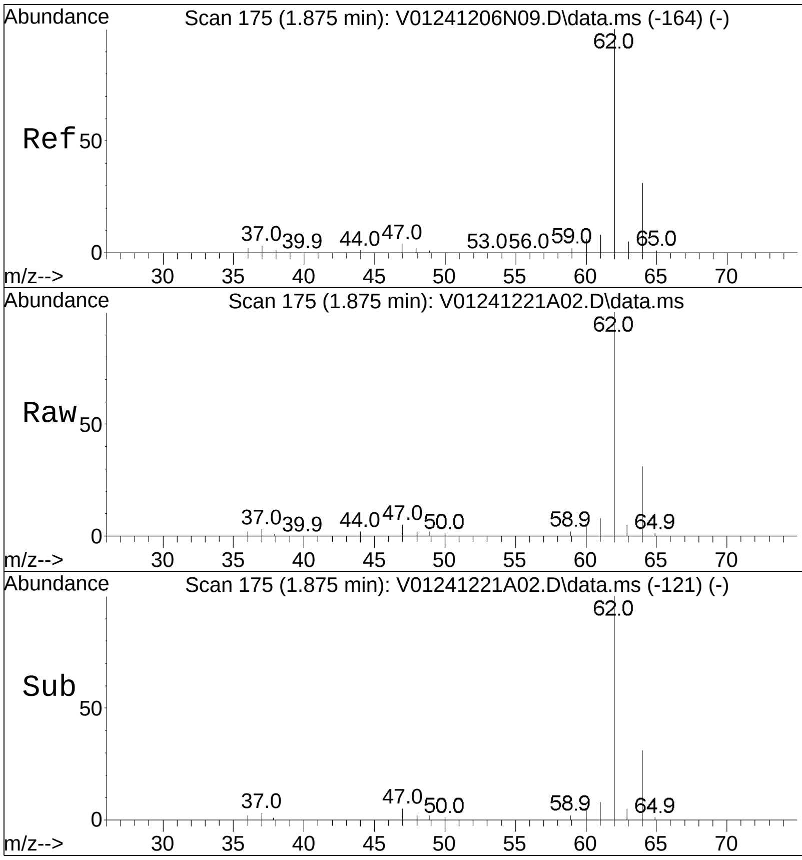



#3
Chloromethane
Concen: 9.49 ug/L
RT: 1.808 min Scan# 151
Delta R.T. -0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 50 Resp: 63080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.3 | 12.8 | 52.8 |
| 47 | 3.6 | 0.0 | 28.3 |

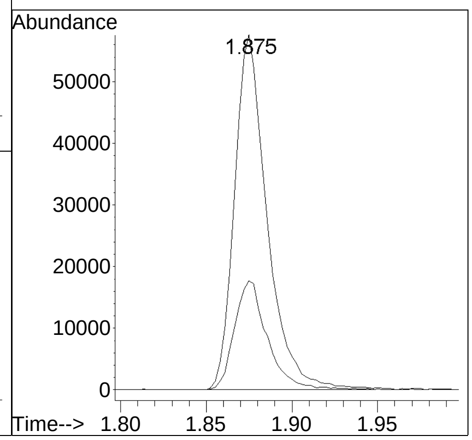


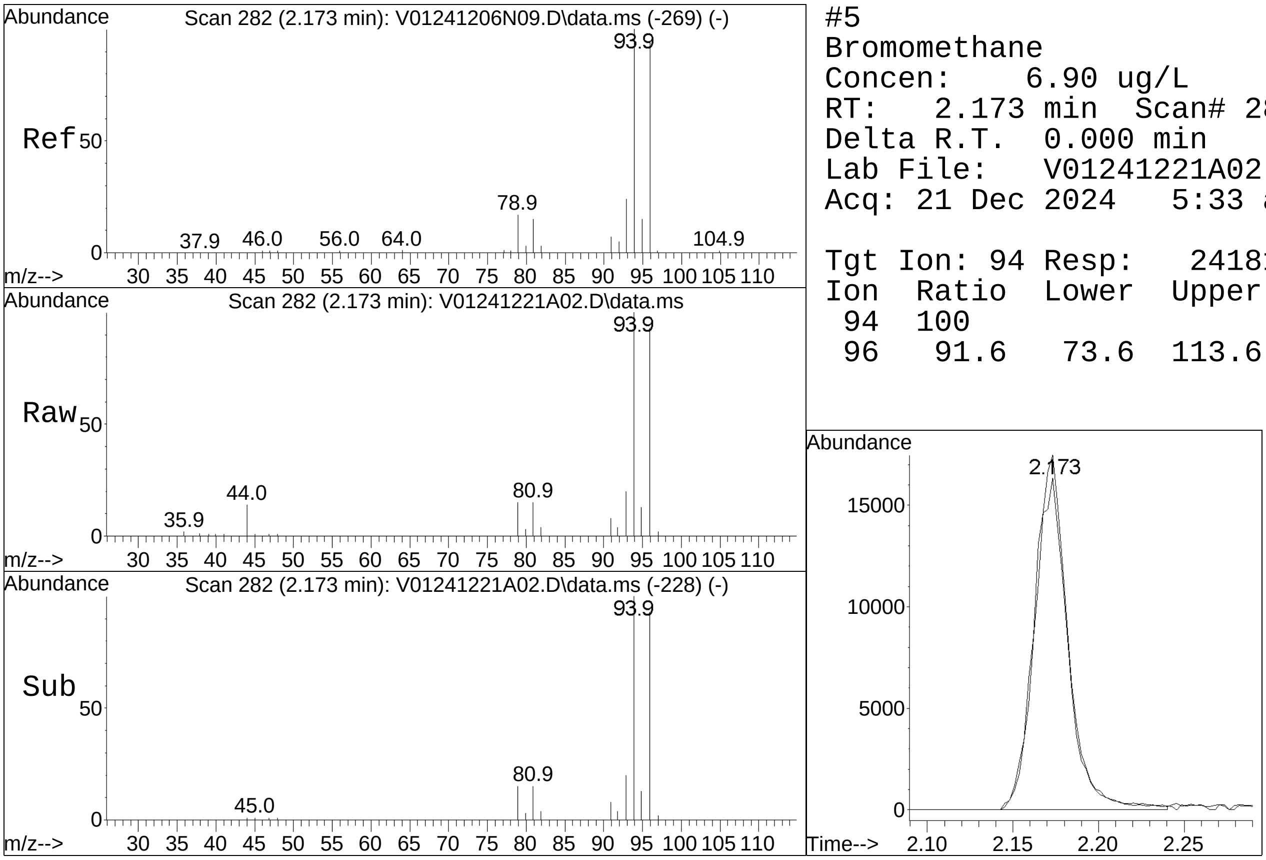



#4
Vinyl chloride
Concen: 10.93 ug/L
RT: 1.875 min Scan# 175
Delta R.T. -0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 62 Resp: 76351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.2 | 10.8 | 50.8 |

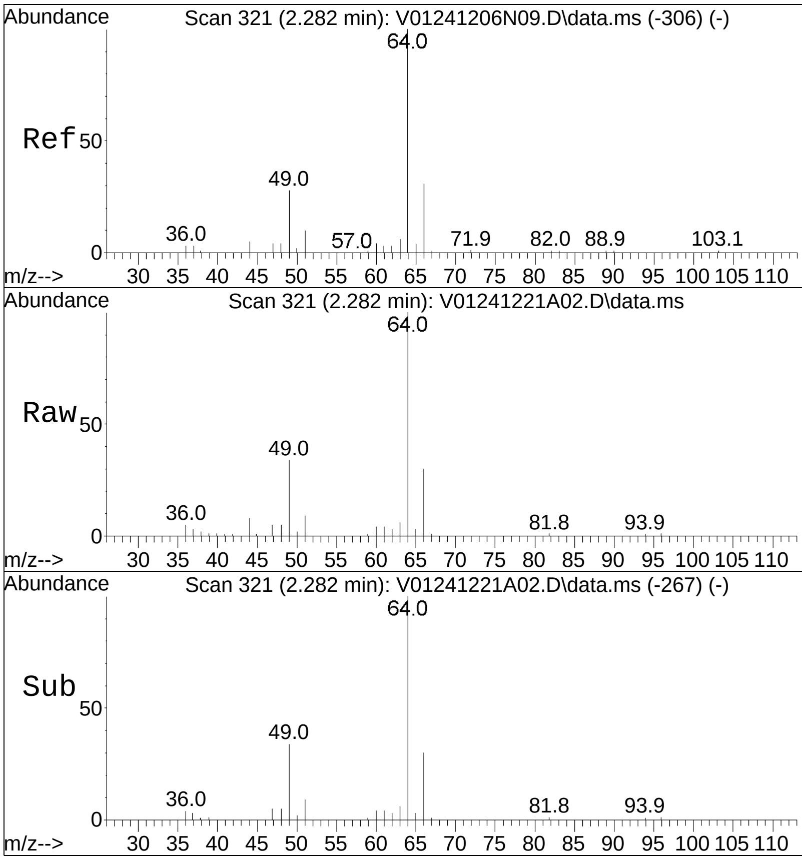





#5
Bromomethane
Concen: 6.90 ug/L
RT: 2.173 min Scan# 282
Delta R.T. 0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 94 Resp: 24181

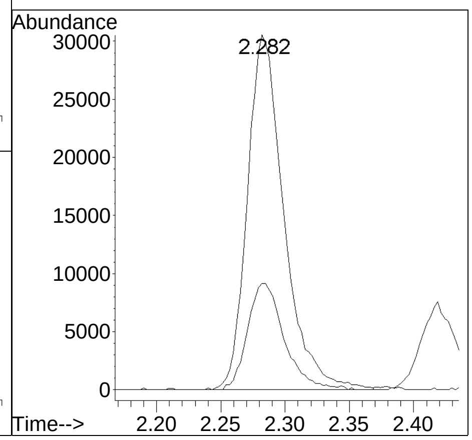
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.6 | 73.6 | 113.6 |




#6
Chloroethane
Concen: 13.83 ug/L
RT: 2.282 min Scan# 321
Delta R.T. -0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 64 Resp: 60524

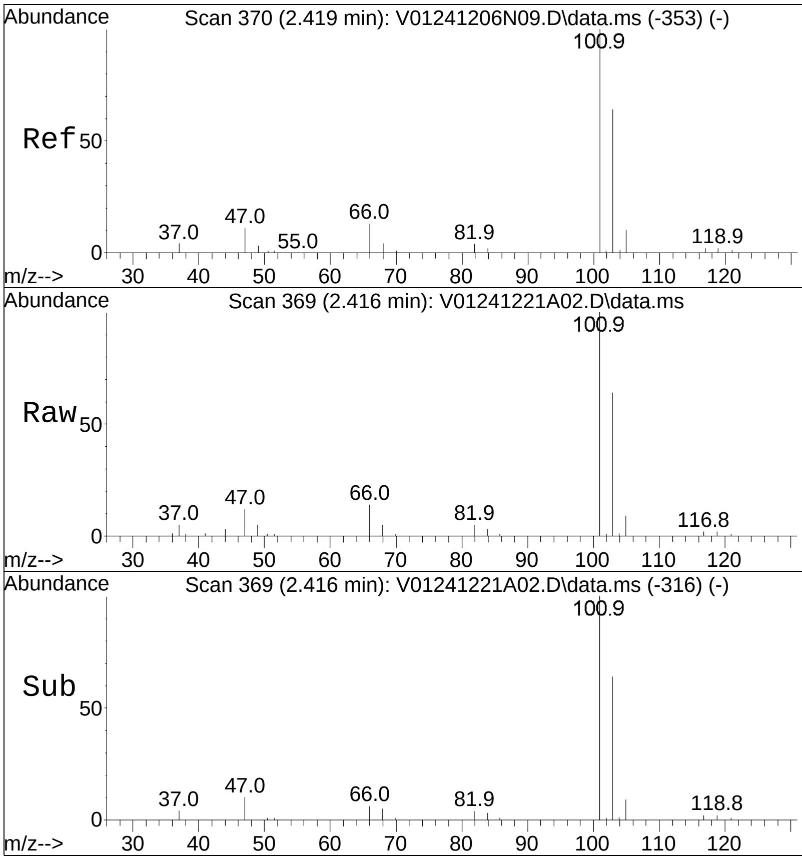
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.2 | 12.7 | 52.7 |

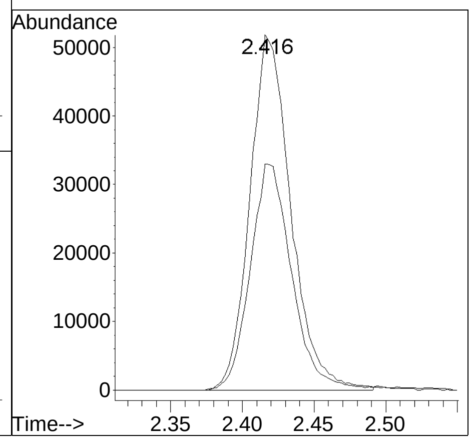


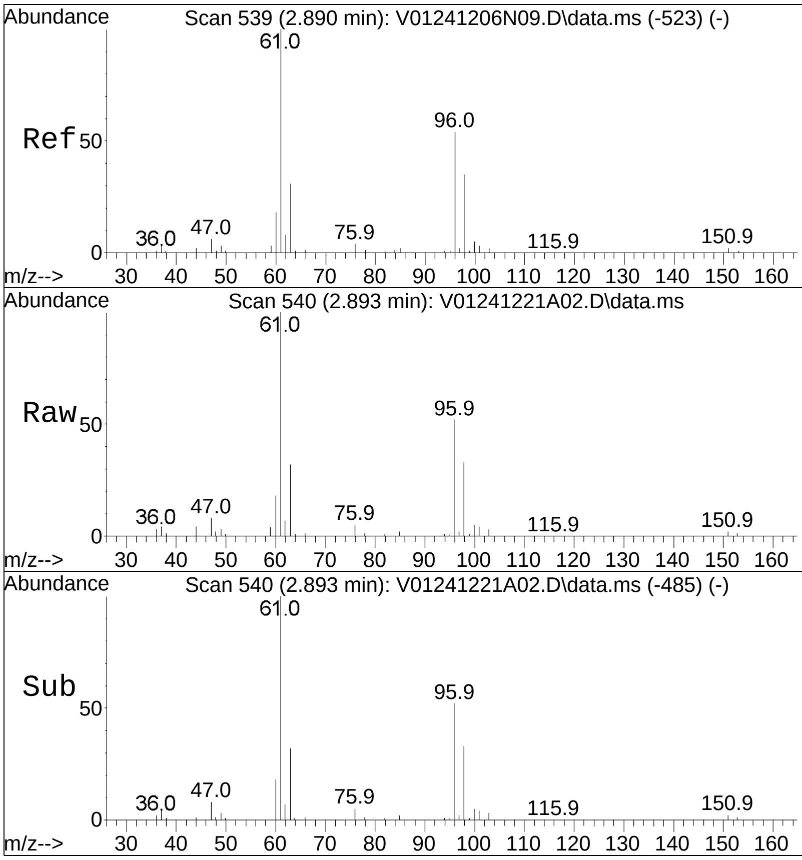
#7
Trichlorofluoromethane
Concen:   11.34 ug/L
RT:   2.416 min  Scan# 369
Delta R.T.  -0.003 min
Lab File:   V01241221A02.D
Acq: 21 Dec 2024   5:33 am

Tgt Ion:101 Resp:  102944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.2 | 52.3 | 78.5 |



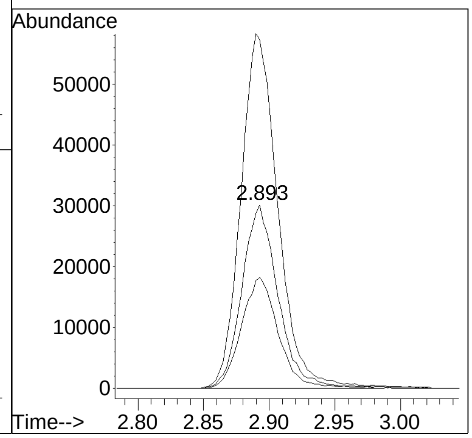



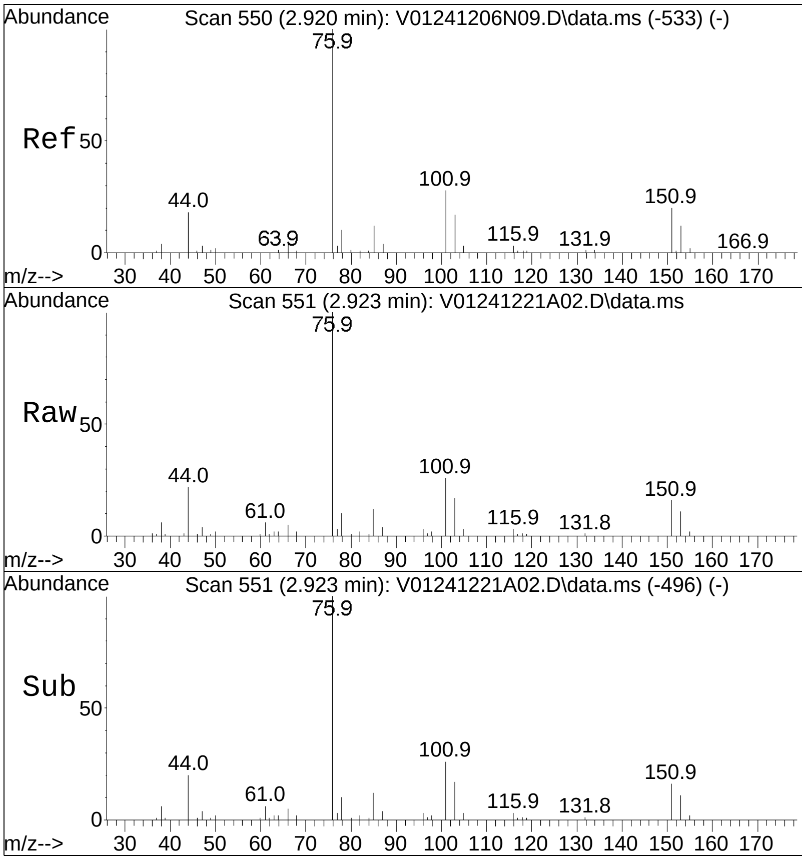



#10
1,1-Dichloroethene
Concen: 11.03 ug/L
RT: 2.893 min Scan# 540
Delta R.T. 0.003 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 96 Resp: 57720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 197.2 | 136.8 | 205.2 |
| 63 | 61.0 | 43.6 | 65.4 |

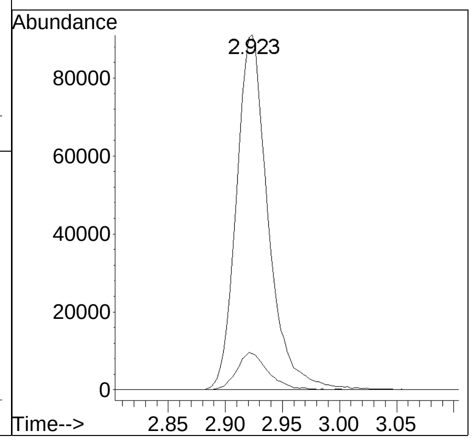


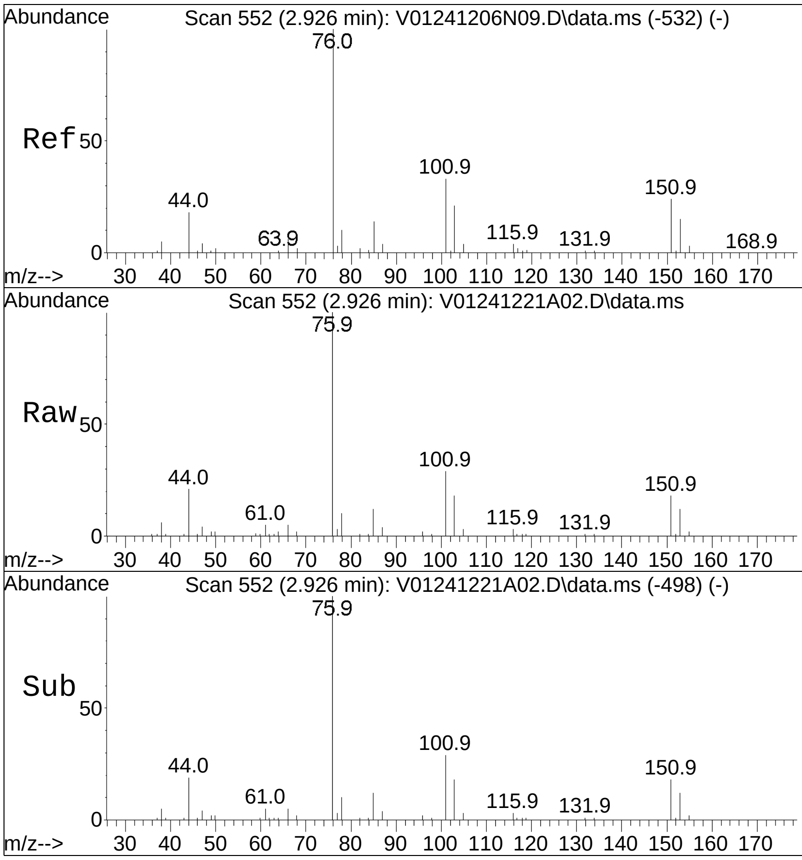



#11
Carbon disulfide
Concen: 11.01 ug/L
RT: 2.923 min Scan# 551
Delta R.T. 0.003 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 76 Resp: 176472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.4 | 6.6 | 13.8 |

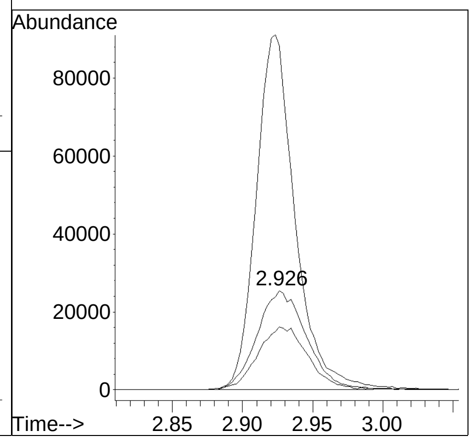


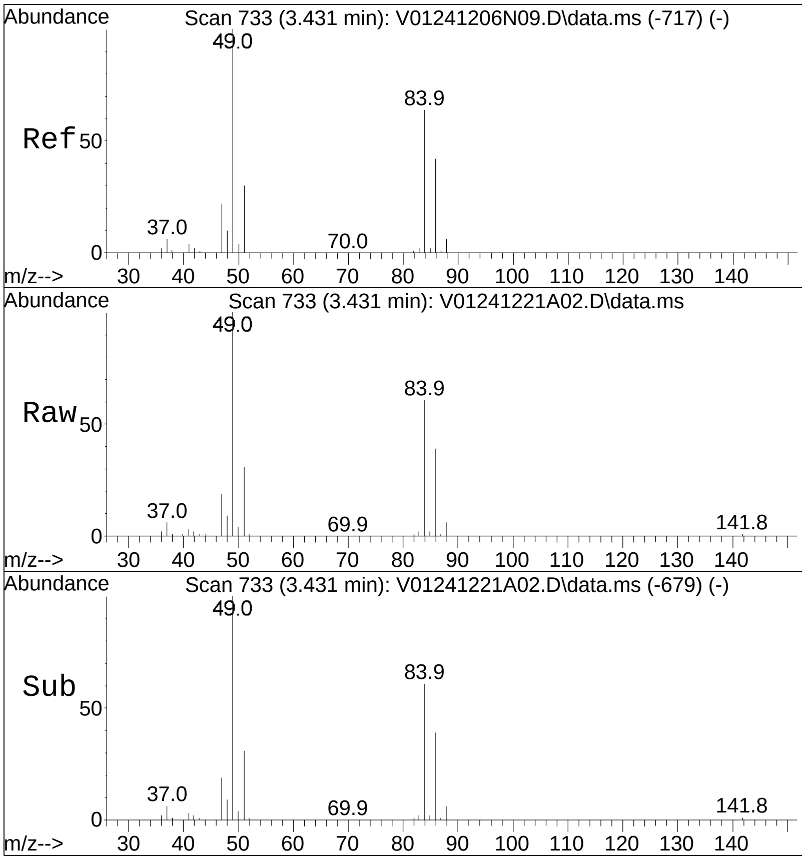



#12
Freon-113
Concen: 11.33 ug/L
RT: 2.926 min Scan# 552
Delta R.T. 0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion:101 Resp: 62667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 63.9 | 61.2 | 91.8 |
| 76 | 281.6 | 194.8 | 292.2 |

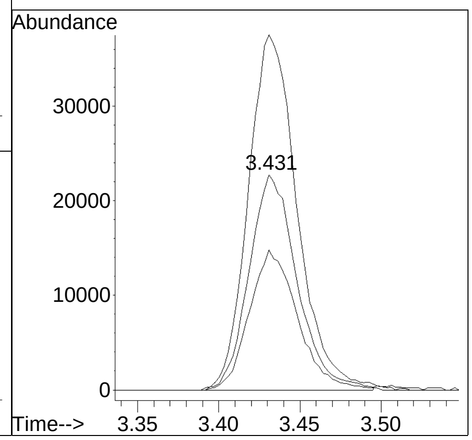


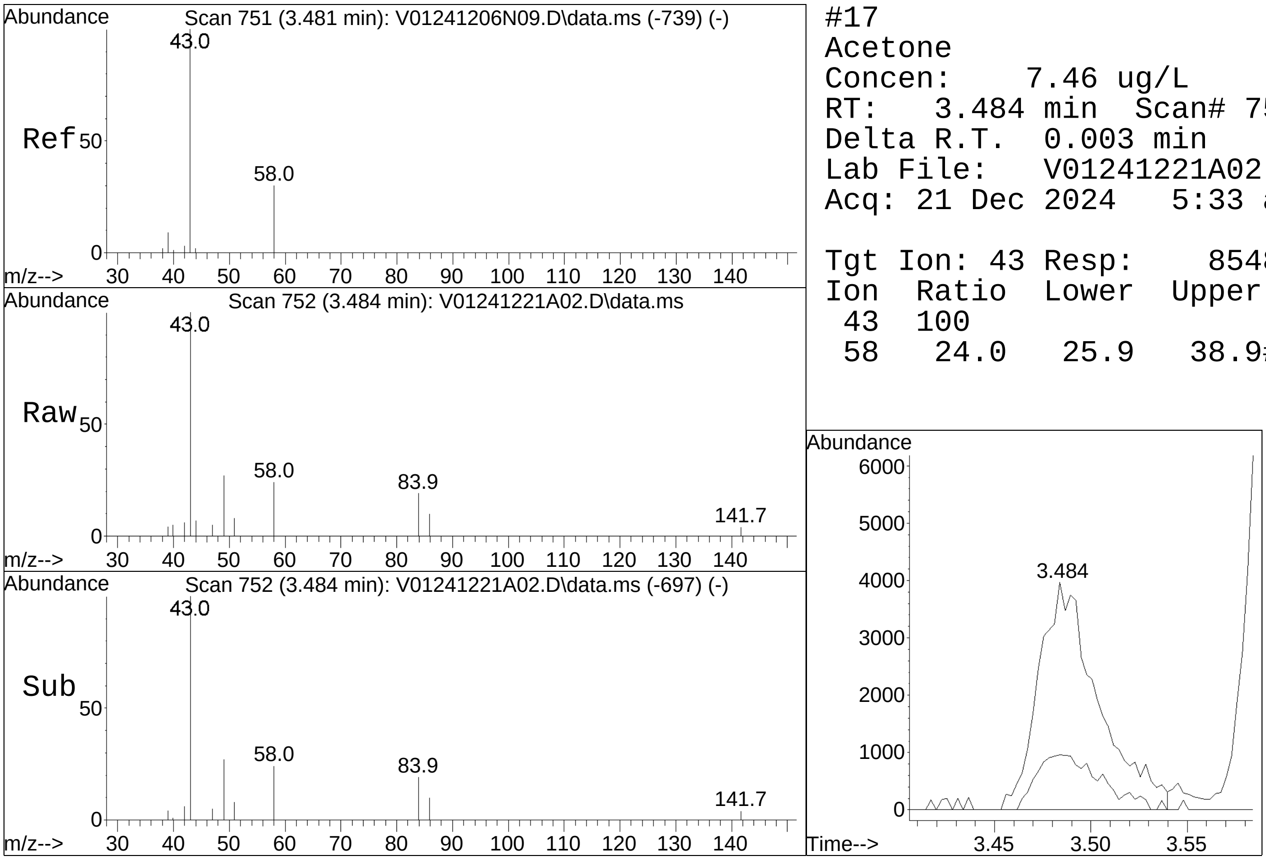



#15
Methylene chloride
Concen: 9.21 ug/L
RT: 3.431 min Scan# 733
Delta R.T. -0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 84 Resp: 46716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 65.3 | 41.7 | 86.7 |
| 49 | 168.8 | 89.1 | 185.1 |

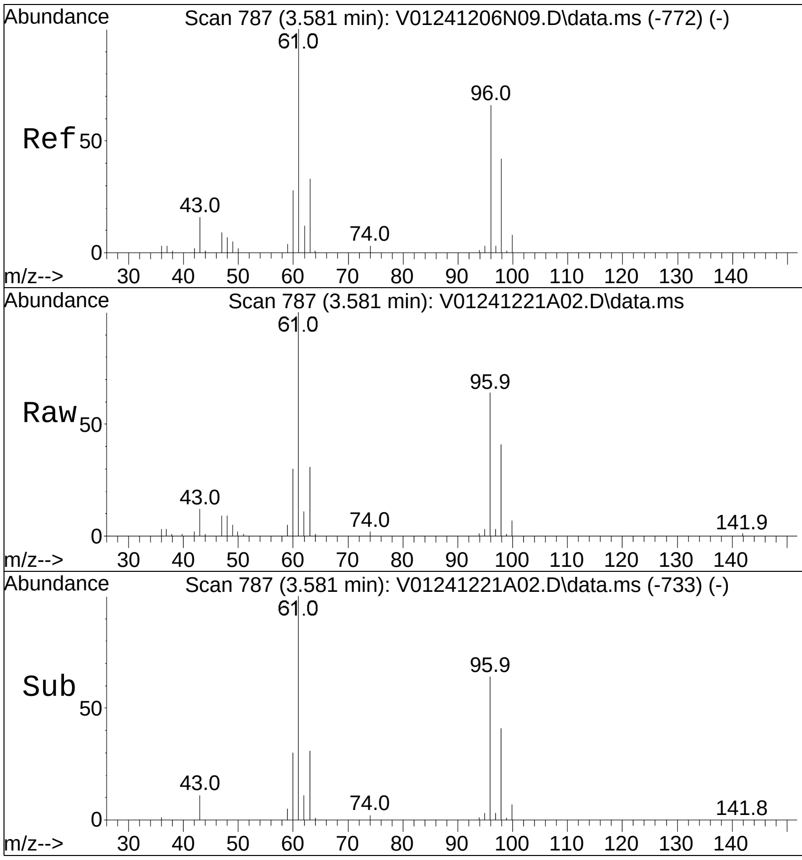





#17
Acetone
Concen: 7.46 ug/L
RT: 3.484 min Scan# 752
Delta R.T. 0.003 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 43 Resp: 8548

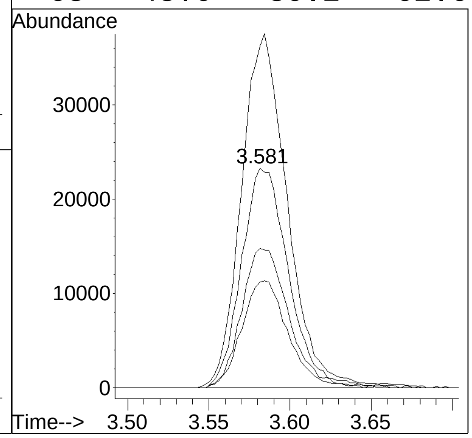
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 24.0 | 25.9 | 38.9# |

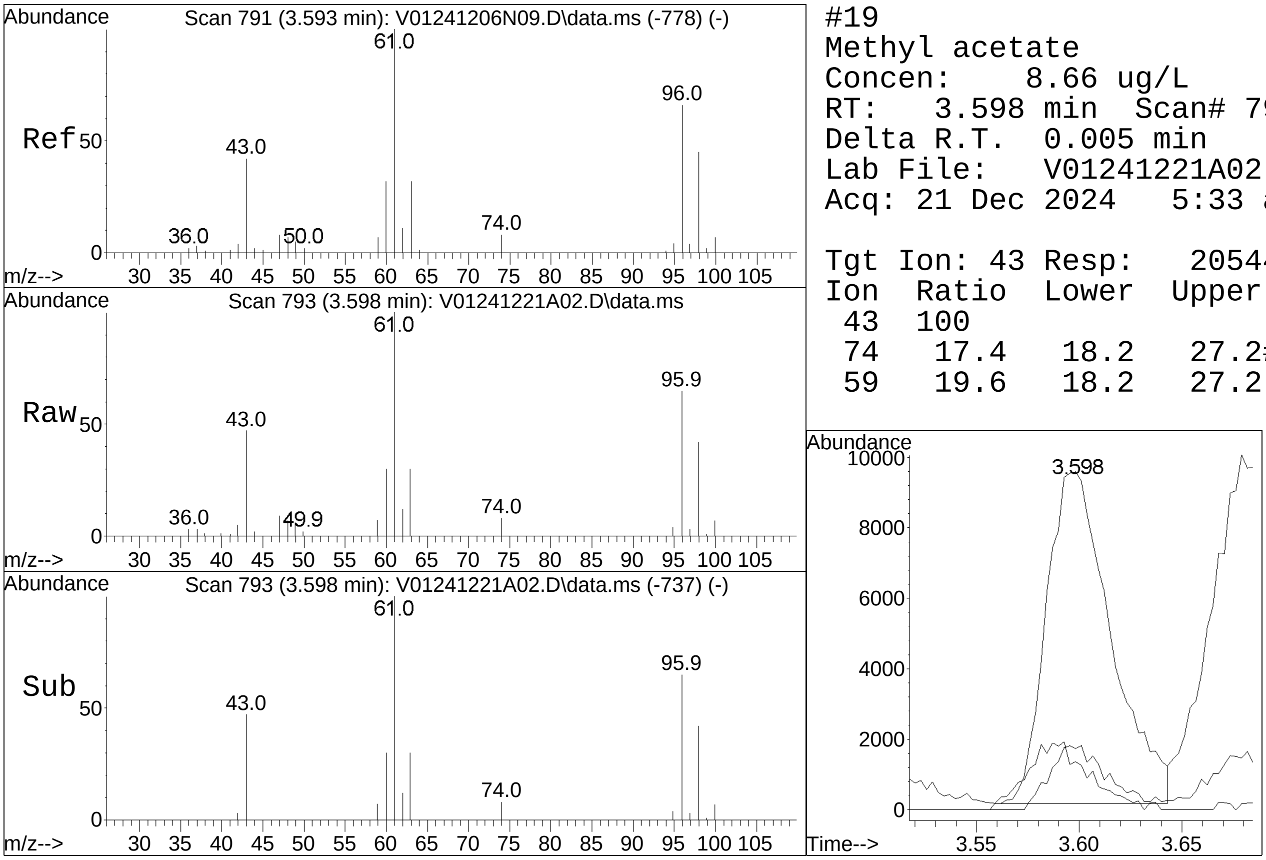



#18
trans-1,2-Dichloroethene
Concen: 9.25 ug/L
RT: 3.581 min Scan# 787
Delta R.T. 0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 96 Resp: 47377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 157.4 | 95.3 | 197.9 |
| 98 | 63.4 | 41.0 | 85.2 |
| 63 | 48.0 | 30.2 | 62.6 |

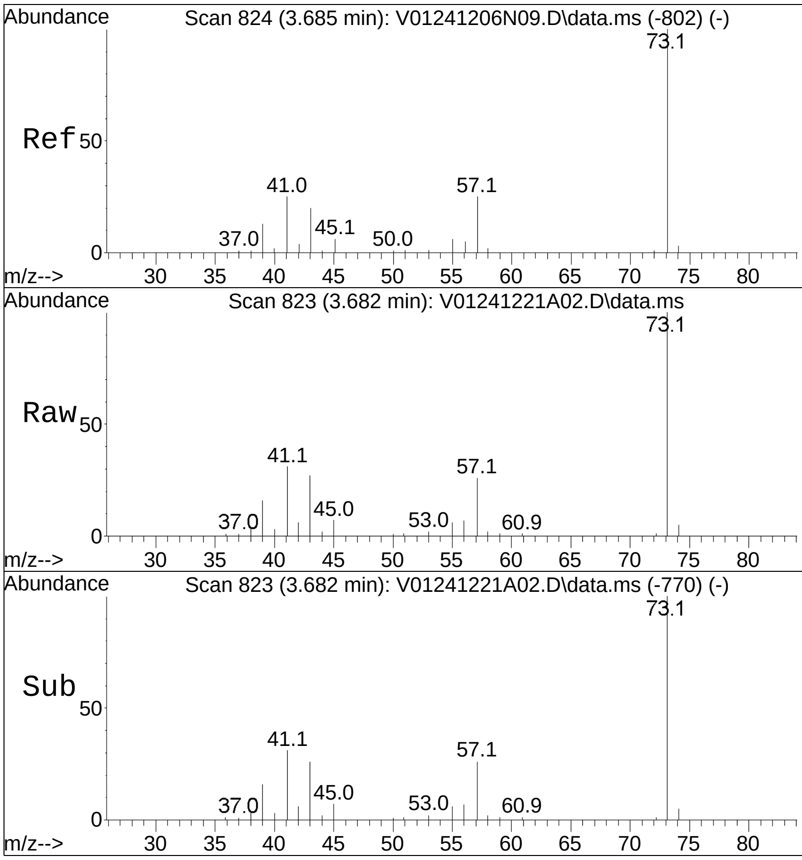





#19
Methyl acetate
Concen: 8.66 ug/L
RT: 3.598 min Scan# 793
Delta R.T. 0.005 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 43 Resp: 20544

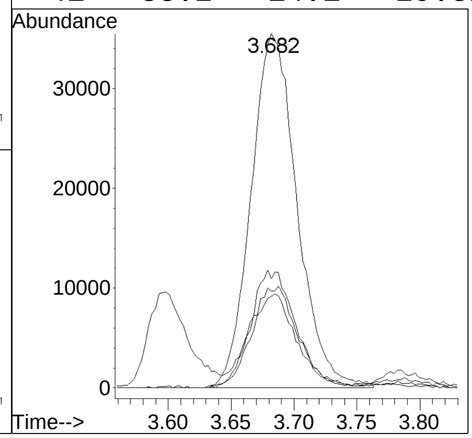
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 17.4 | 18.2 | 27.2# |
| 59 | 19.6 | 18.2 | 27.2 |

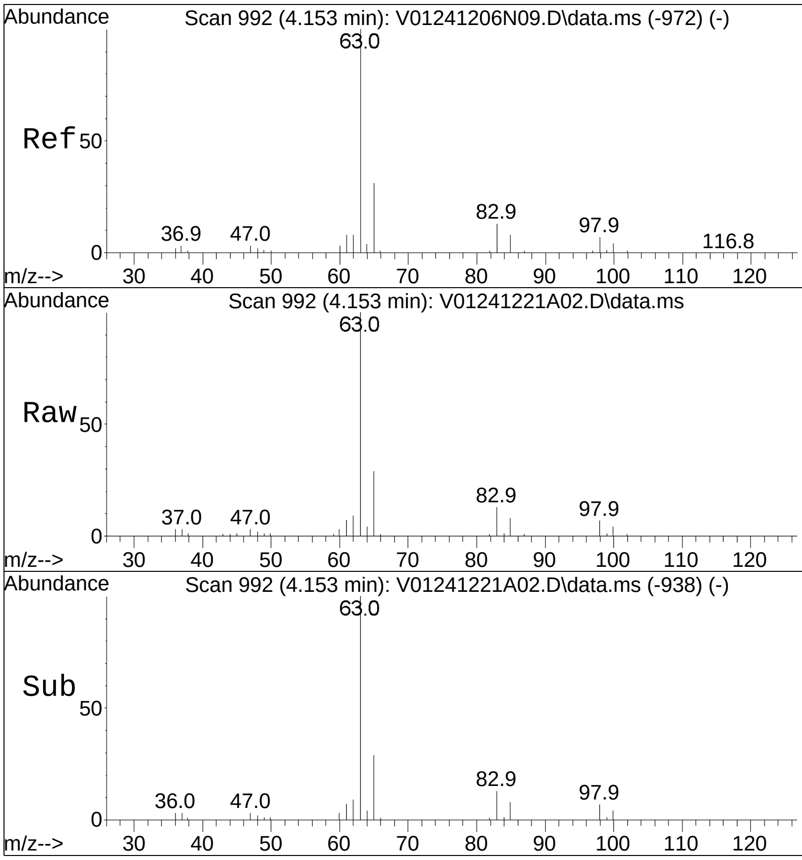



#20
Methyl tert-butyl ether
Concen: 8.26 ug/L
RT: 3.682 min Scan# 823
Delta R.T. -0.003 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 73 Resp: 90391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 26.3 | 14.8 | 30.6 |
| 43 | 28.8 | 15.5 | 32.3 |
| 41 | 33.2 | 14.1 | 29.3# |

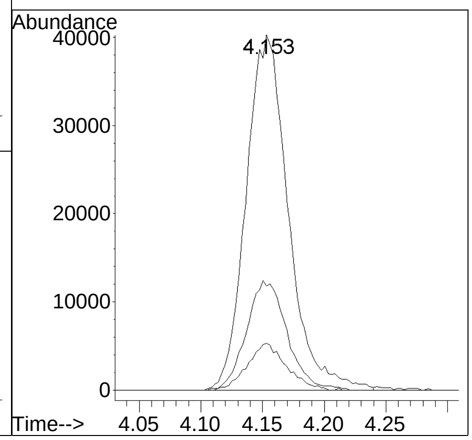


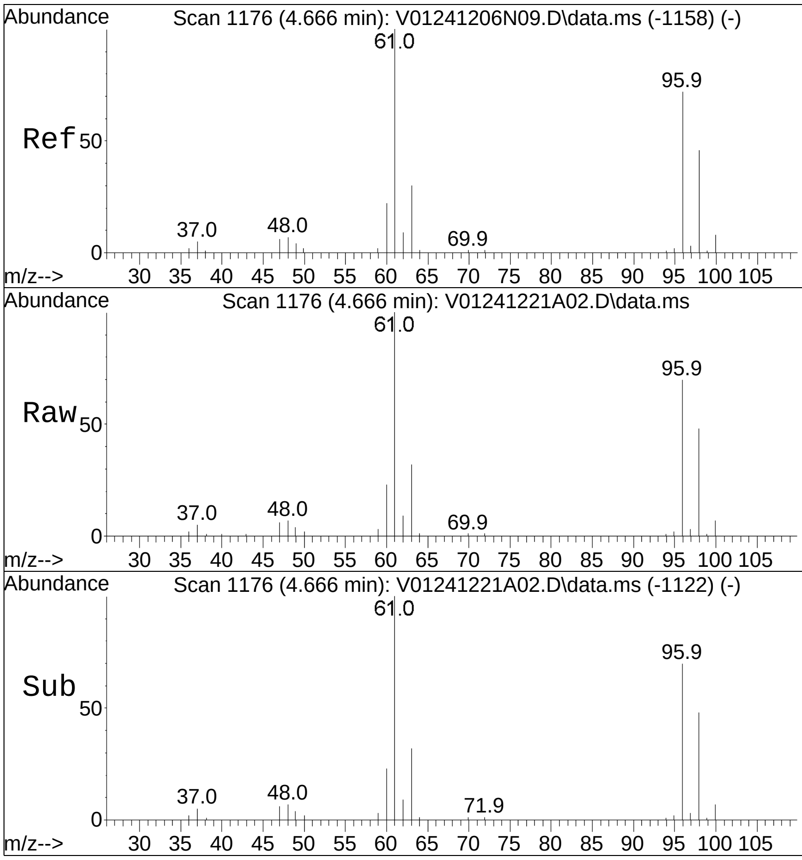



#23
1,1-Dichloroethane
Concen: 9.71 ug/L
RT: 4.153 min Scan# 992
Delta R.T. 0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 63 Resp: 95566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 29.6 | 10.9 | 50.9 |
| 83 | 12.1 | 0.0 | 33.0 |

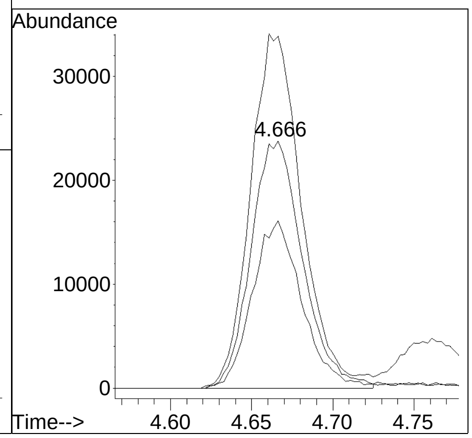




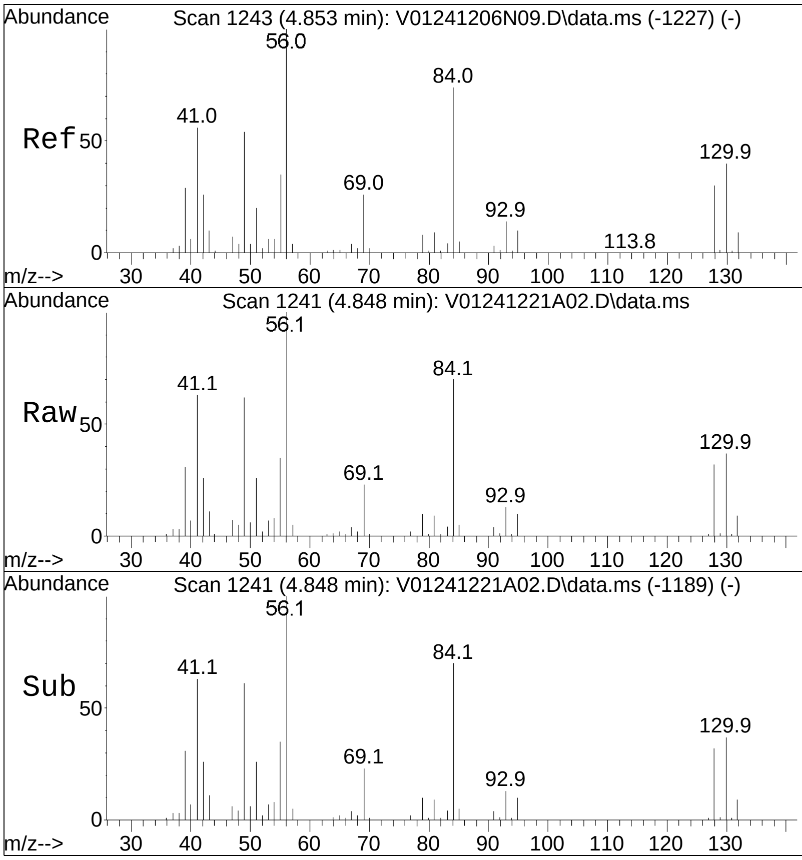

#28
cis-1,2-Dichloroethene
Concen: 9.43 ug/L
RT: 4.666 min Scan# 1176
Delta R.T. 0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 96 Resp: 52766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 140.4 | 105.8 | 158.6 |
| 98 | 65.2 | 51.1 | 76.7 |



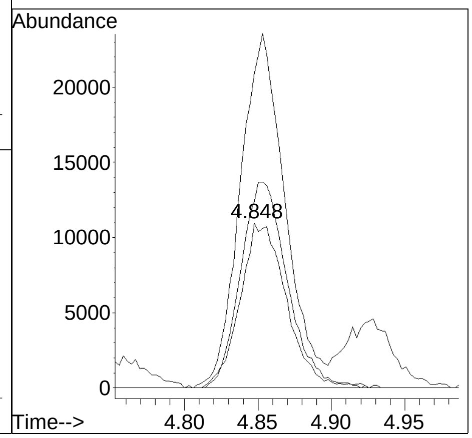

V01241221A02.D V101_241206N_8260.m Mon Dec 23 06:35:19 2024 Page 28

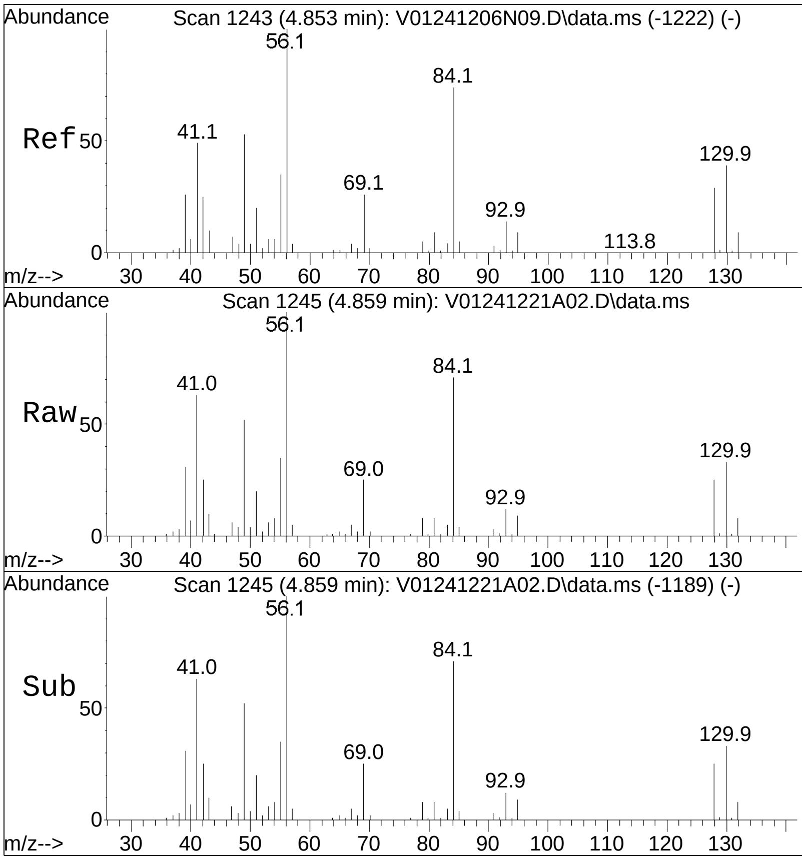



#30
Bromochloromethane
Concen: 9.23 ug/L
RT: 4.848 min Scan# 1241
Delta R.T. -0.005 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion:128 Resp: 23979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 49 | 208.6 | 140.4 | 210.6 |
| 130 | 127.0 | 103.1 | 154.7 |

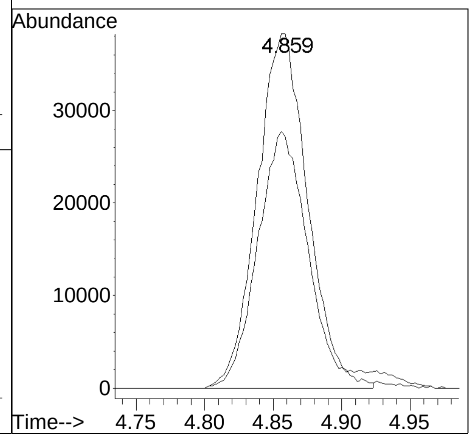


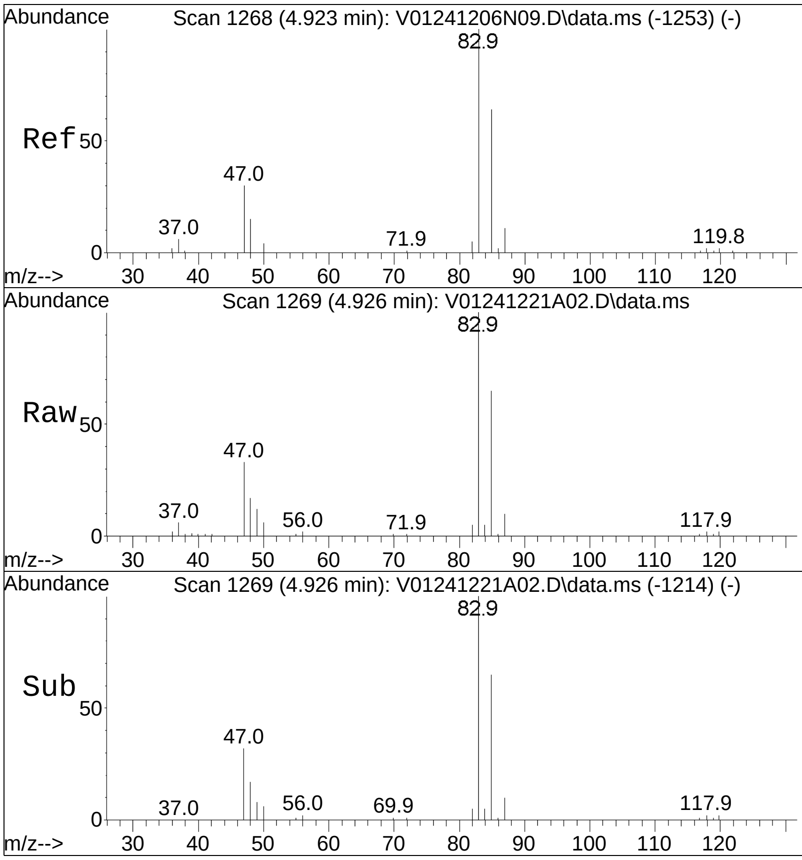



#31
Cyclohexane
Concen: 9.49 ug/L
RT: 4.859 min Scan# 1245
Delta R.T. 0.006 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 56 Resp: 98507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 84 | 71.7 | 53.6 | 111.4 |

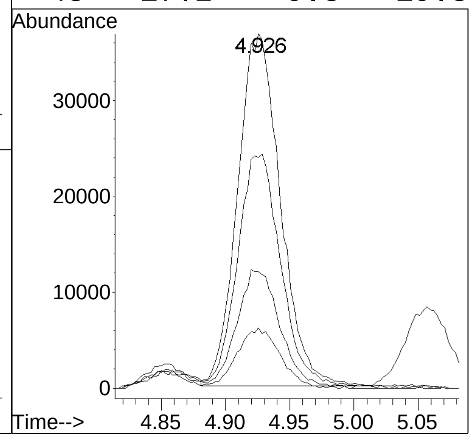


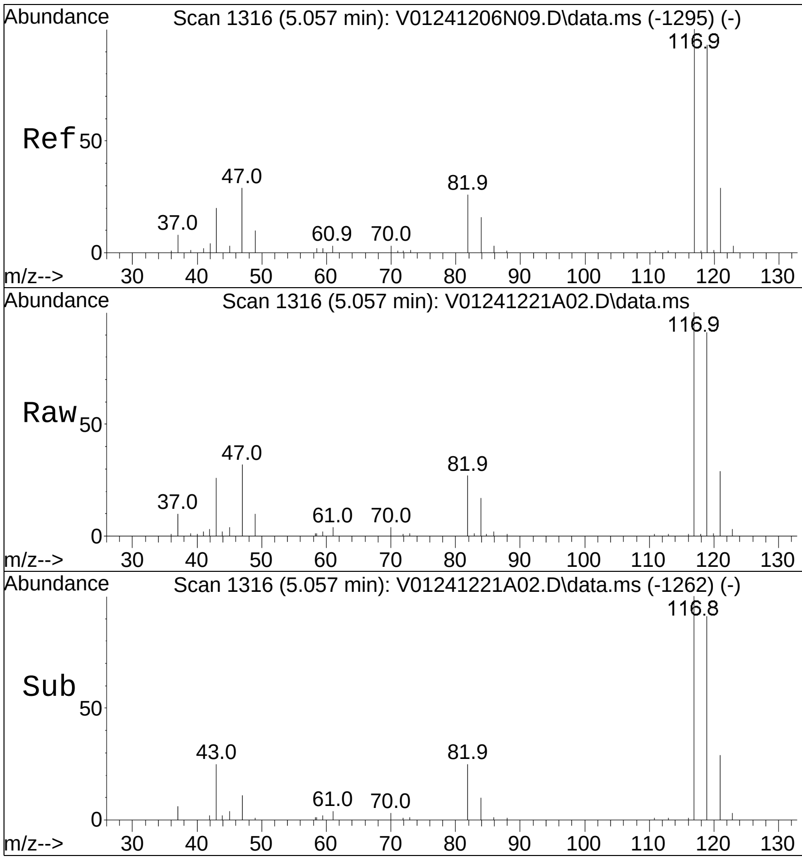



#32
Chloroform
Concen: 9.36 ug/L
RT: 4.926 min Scan# 1269
Delta R.T. 0.003 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 83 Resp: 85256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.9 | 42.3 | 87.8 |
| 47 | 32.9 | 17.8 | 37.0 |
| 48 | 17.2 | 9.3 | 19.3 |

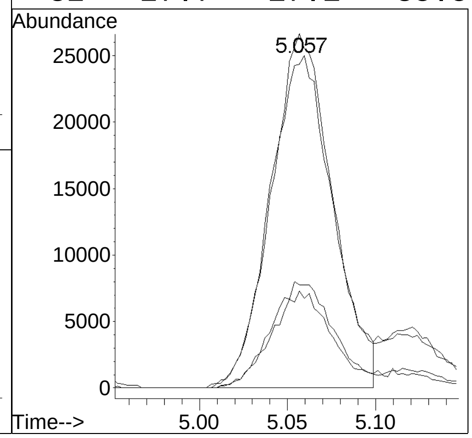


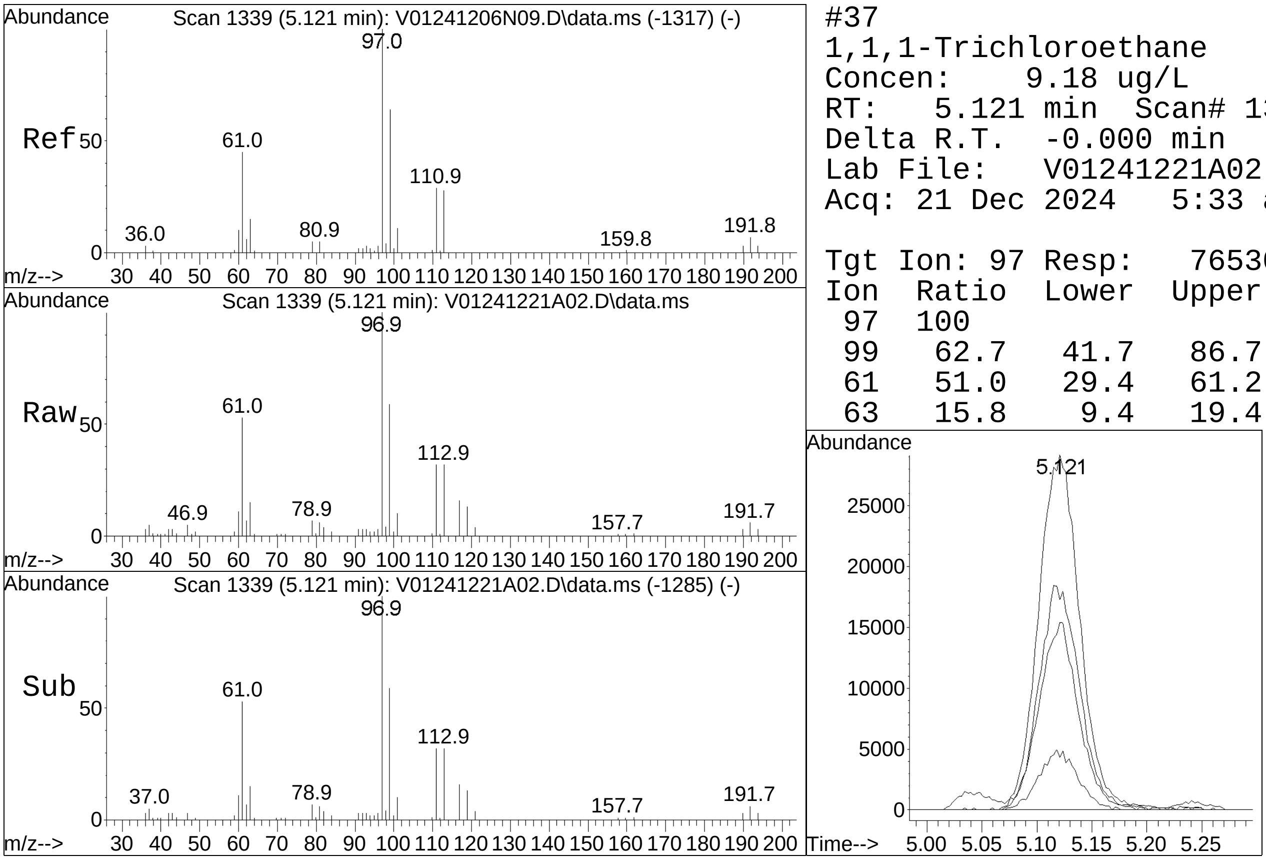



#34
Carbon tetrachloride
Concen: 8.72 ug/L
RT: 5.057 min Scan# 1316
Delta R.T. -0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion:117 Resp: 65139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.4 | 62.1 | 128.9 |
| 121 | 30.8 | 19.8 | 41.0 |
| 82 | 27.7 | 17.1 | 35.5 |

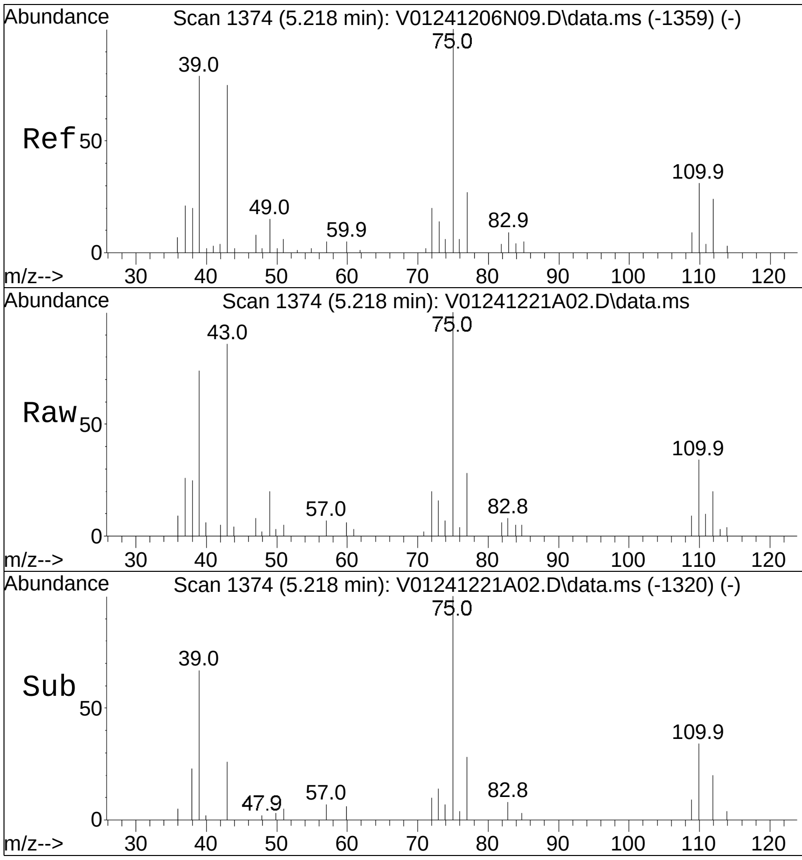





#37
1,1,1-Trichloroethane
Concen: 9.18 ug/L
RT: 5.121 min Scan# 1339
Delta R.T. -0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 97 Resp: 76530

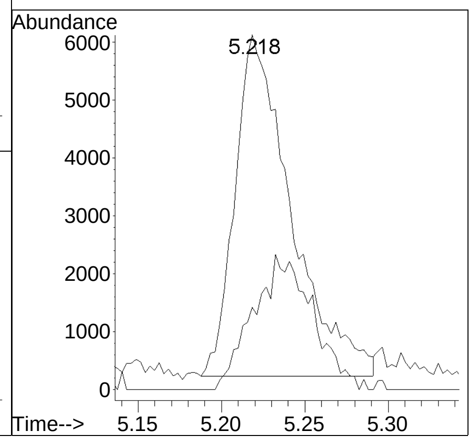
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.7 | 41.7 | 86.7 |
| 61 | 51.0 | 29.4 | 61.2 |
| 63 | 15.8 | 9.4 | 19.4 |

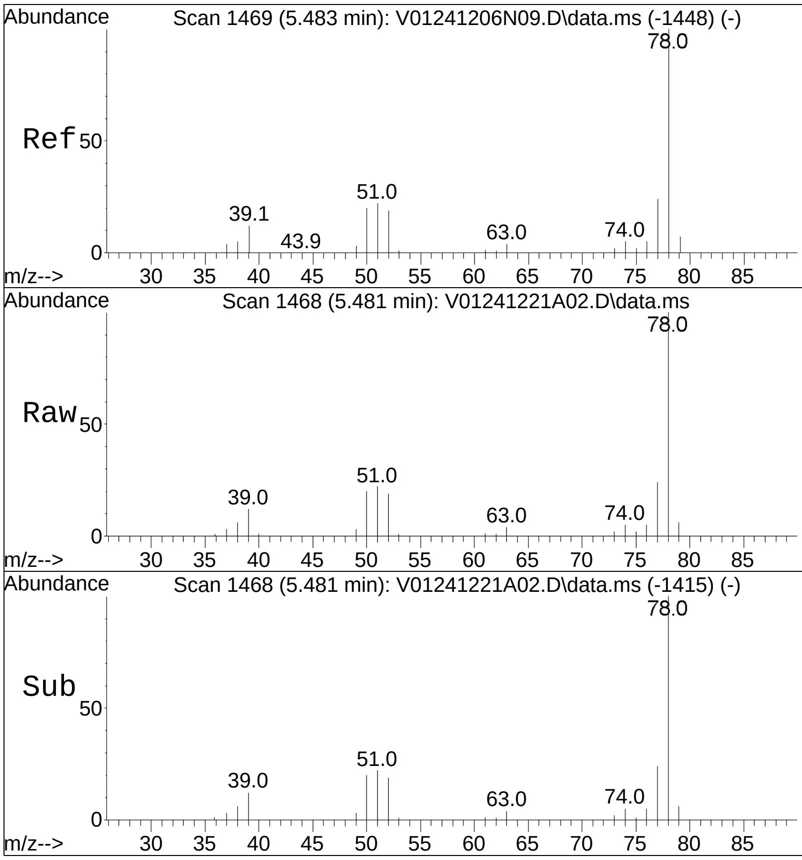



#39
2-Butanone
Concen: 9.06 ug/L
RT: 5.218 min Scan# 1374
Delta R.T. 0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 43 Resp: 13802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 41.9 | 45.8 | 68.6# |

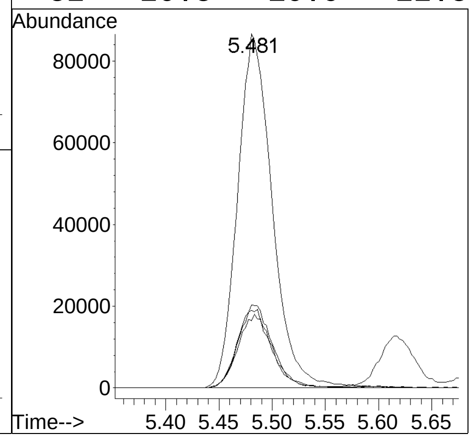


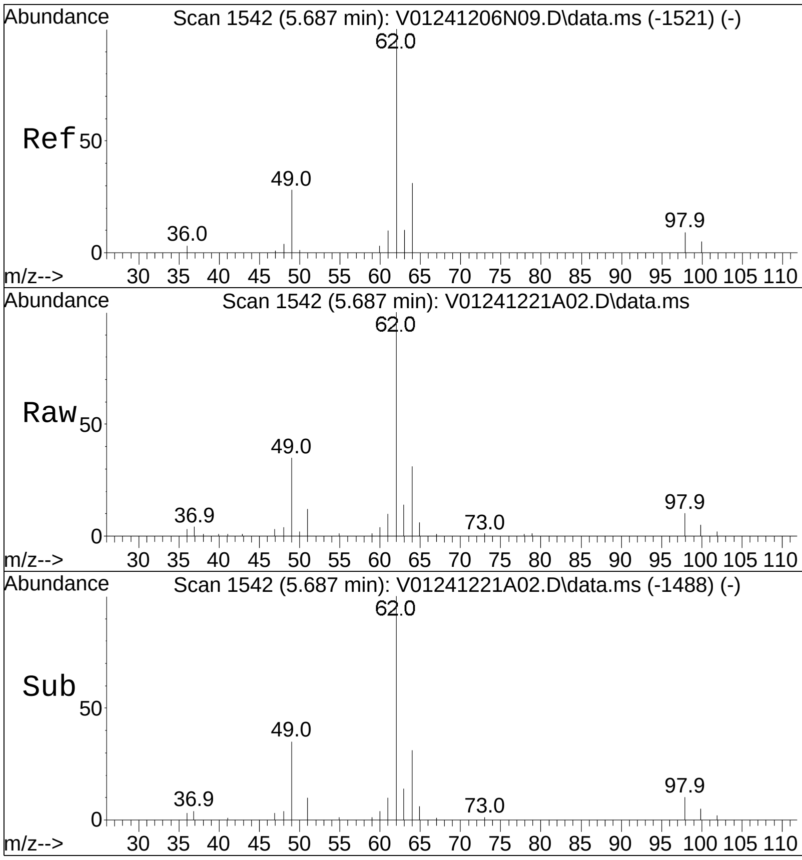



#41
Benzene
Concen: 9.82 ug/L
RT: 5.481 min Scan# 1468
Delta R.T. -0.002 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 78 Resp: 196497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.7 | 15.7 | 32.5 |
| 51 | 21.8 | 11.6 | 24.2 |
| 52 | 20.5 | 10.9 | 22.5 |

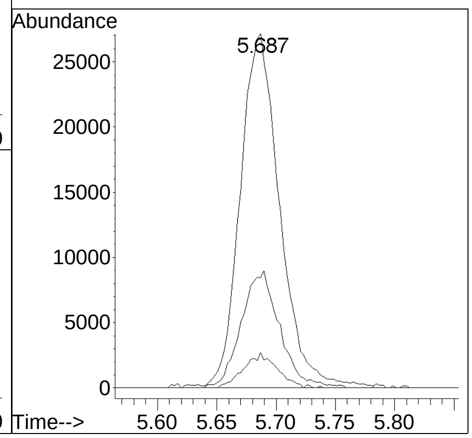


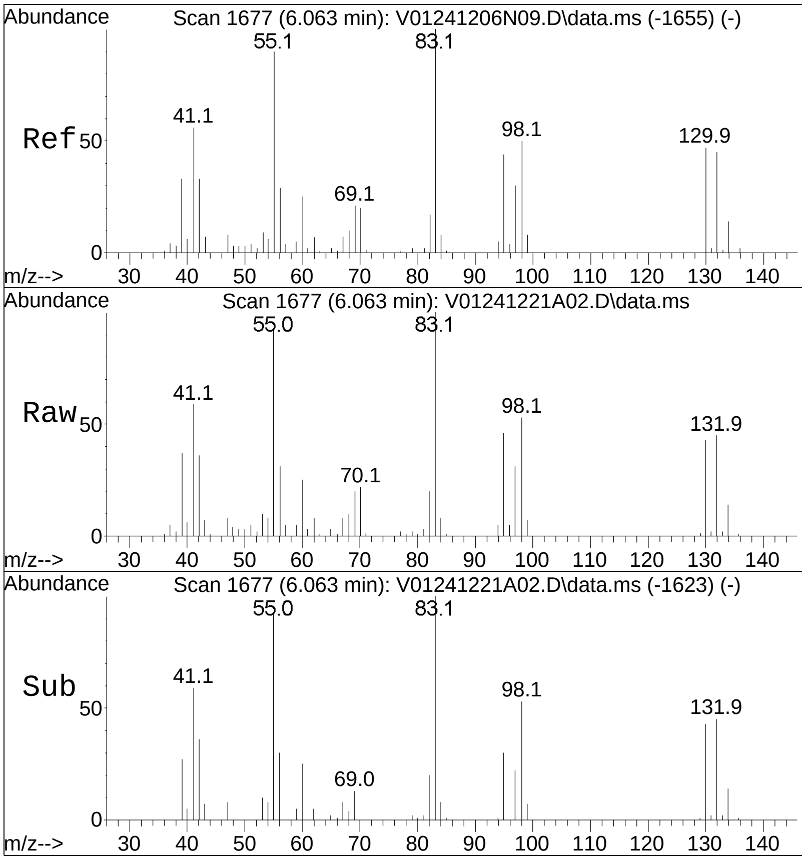



#44
1,2-Dichloroethane
Concen: 9.59 ug/L
RT: 5.687 min Scan# 1542
Delta R.T. -0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 62 Resp: 62994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.2 | 12.1 | 52.1 |
| 98 | 8.4 | 0.0 | 28.8 |

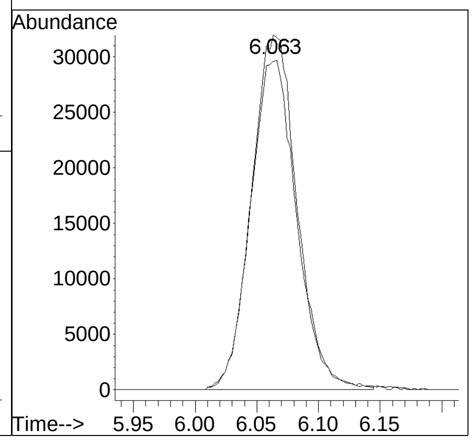


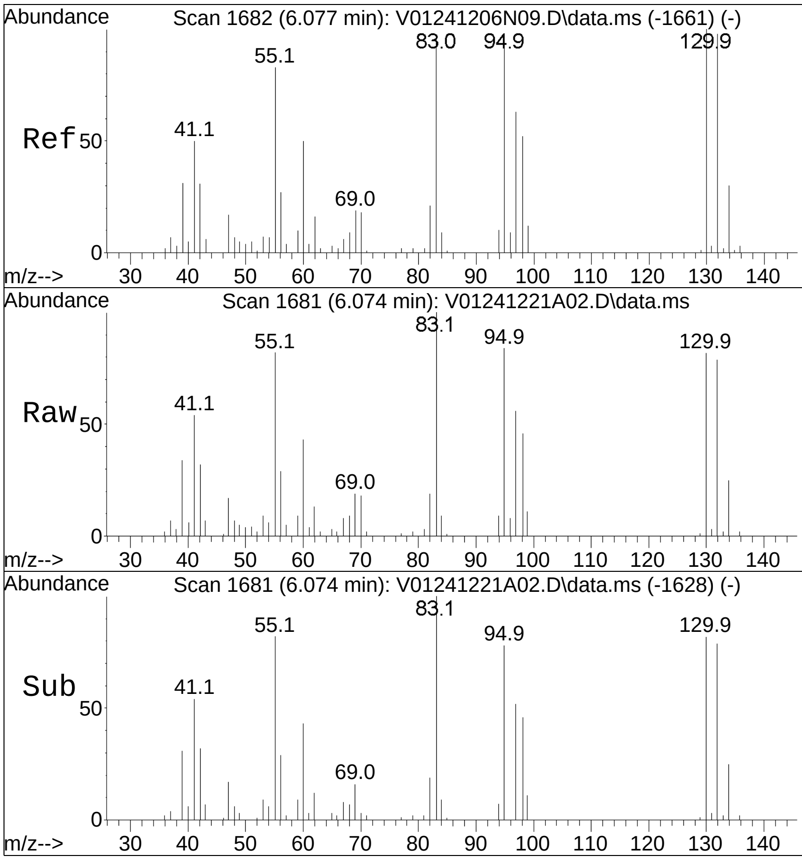



#47
Methyl cyclohexane
Concen: 8.94 ug/L
RT: 6.063 min Scan# 1677
Delta R.T. 0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 83 Resp: 82574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 93.3 | 64.6 | 96.8 |

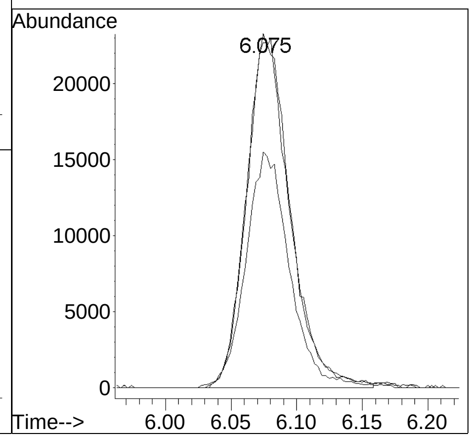


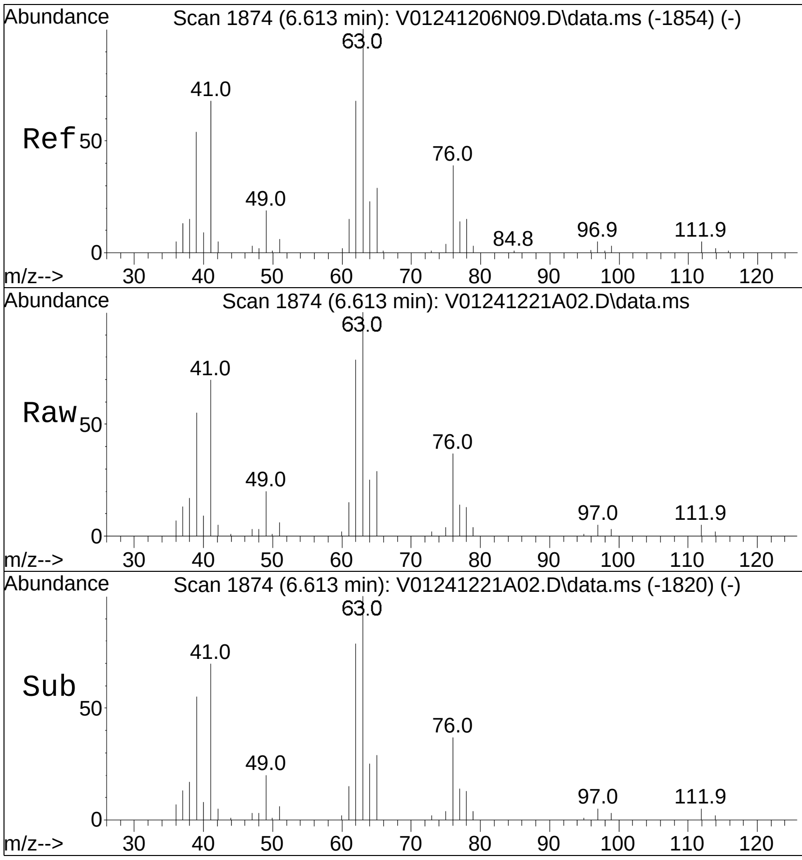



#48
Trichloroethene
Concen: 9.56 ug/L
RT: 6.074 min Scan# 1681
Delta R.T. -0.003 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 95 Resp: 53201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 97 | 68.0 | 54.4 | 81.6 |
| 130 | 101.9 | 80.6 | 120.8 |

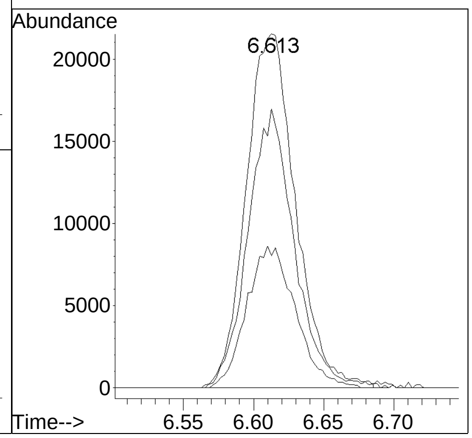


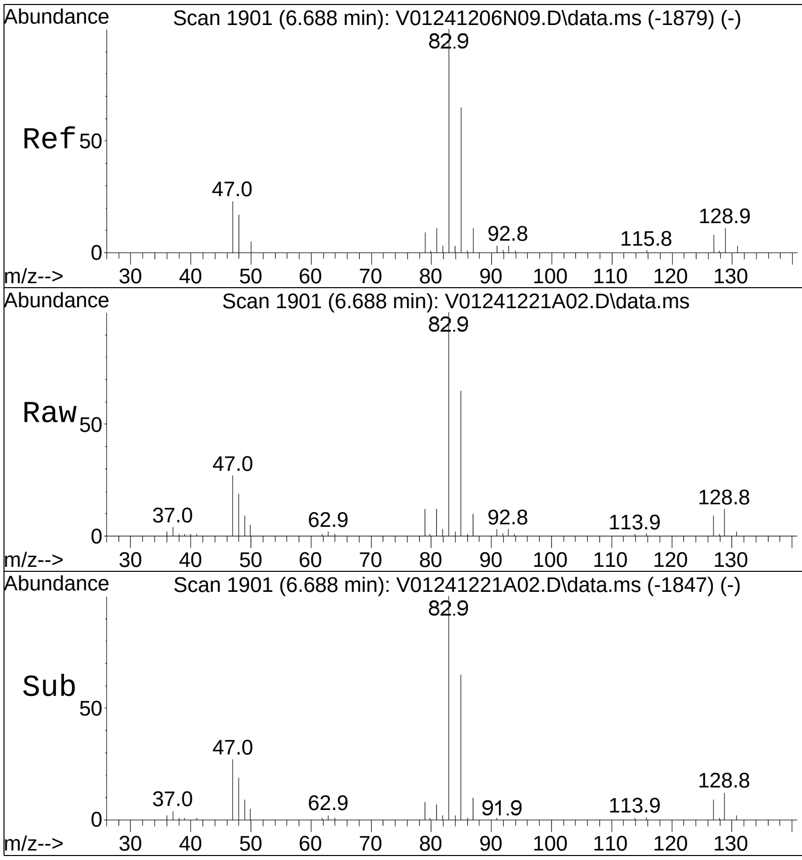



#51
1,2-Dichloropropane
Concen: 9.88 ug/L
RT: 6.613 min Scan# 1874
Delta R.T. -0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 63 Resp: 52976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 62 | 74.0 | 57.2 | 85.8 |
| 76 | 39.6 | 33.6 | 50.4 |

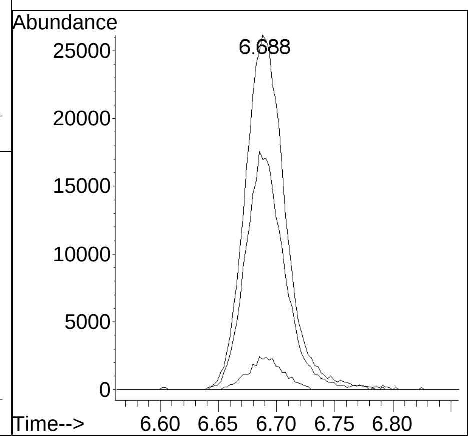


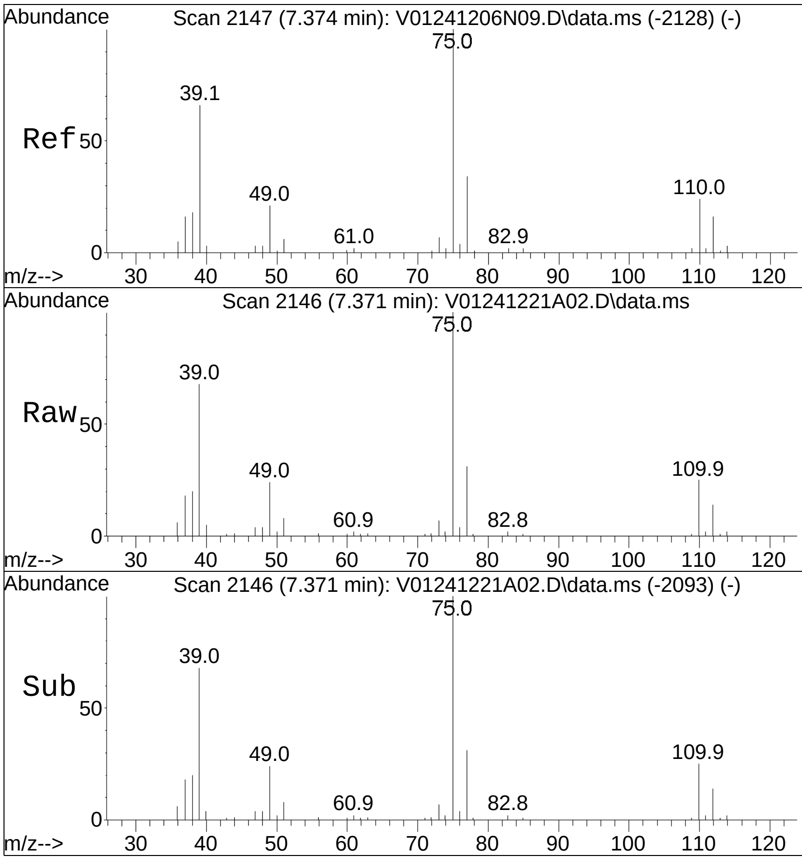



#54
Bromodichloromethane
Concen: 9.22 ug/L
RT: 6.688 min Scan# 1901
Delta R.T. 0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 83 Resp: 63709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.9 | 52.2 | 78.4 |
| 127 | 8.2 | 6.9 | 10.3 |

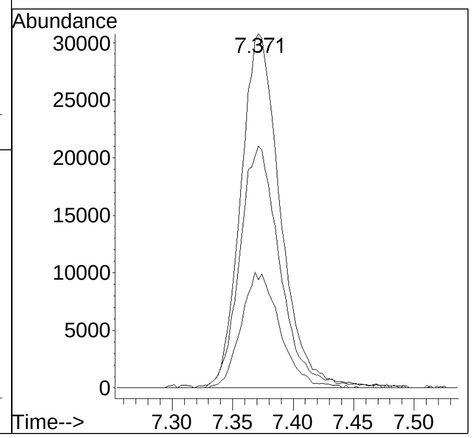


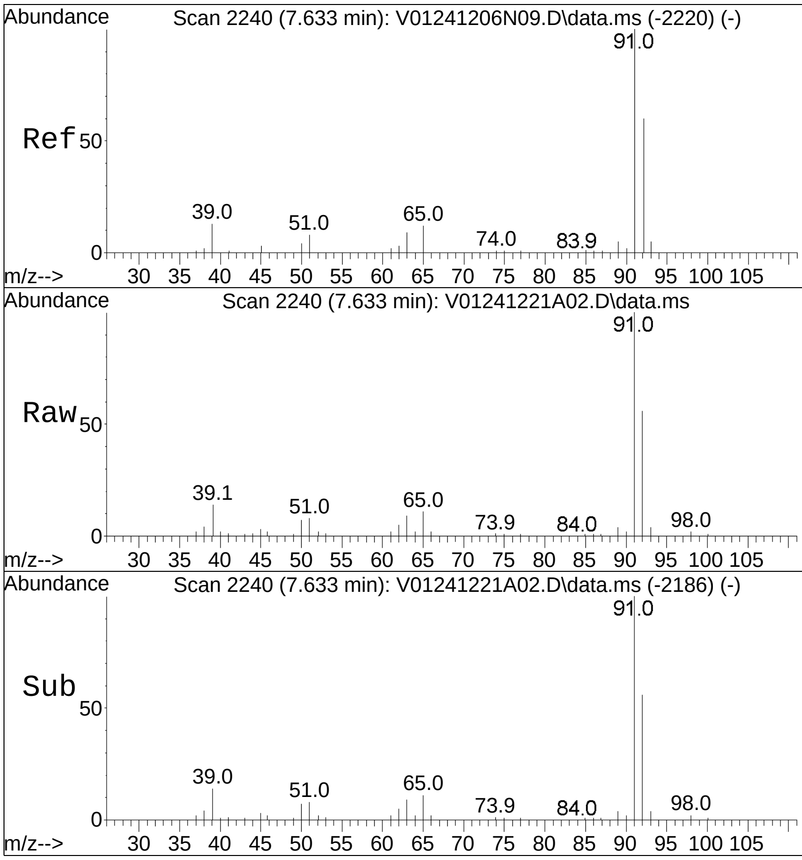



#58
cis-1,3-Dichloropropene
Concen: 8.86 ug/L
RT: 7.371 min Scan# 2146
Delta R.T. -0.003 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 75 Resp: 70130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.0 | 25.1 | 37.7 |
| 39 | 69.0 | 42.6 | 63.8# |

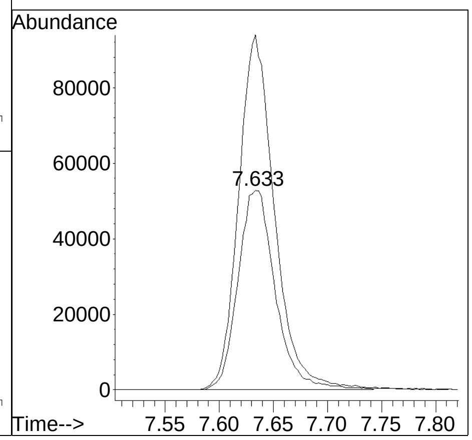


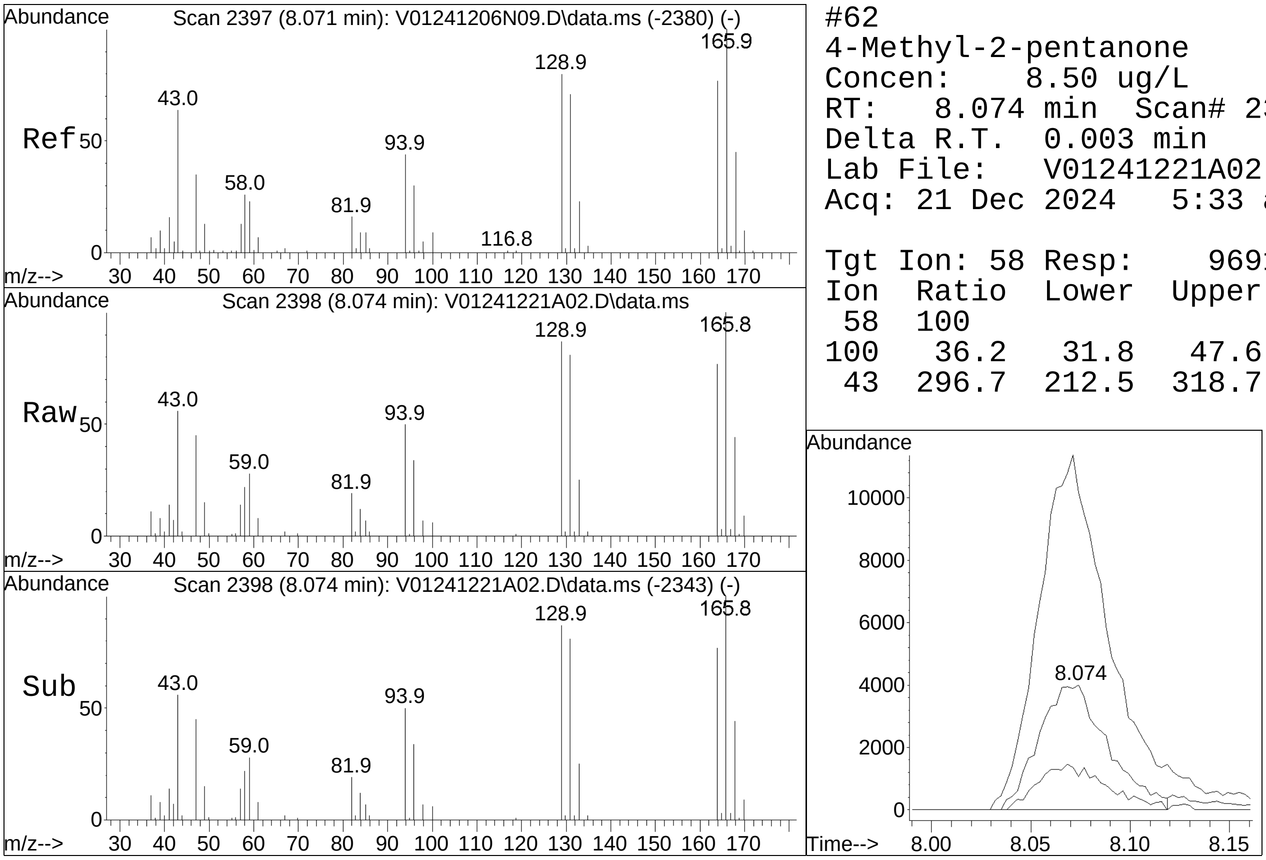



#61
Toluene
Concen: 9.73 ug/L
RT: 7.633 min Scan# 2240
Delta R.T. 0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 92 Resp: 127257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.2 | 137.5 | 206.3 |

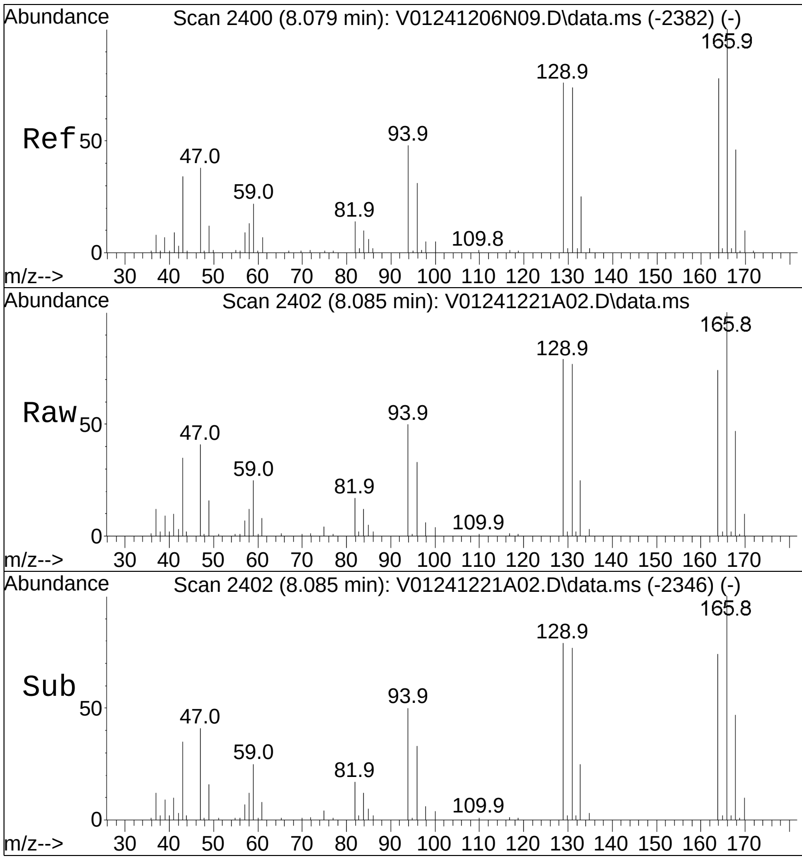





#62
4-Methyl-2-pentanone
Concen: 8.50 ug/L
RT: 8.074 min Scan# 2398
Delta R.T. 0.003 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 58 Resp: 9691

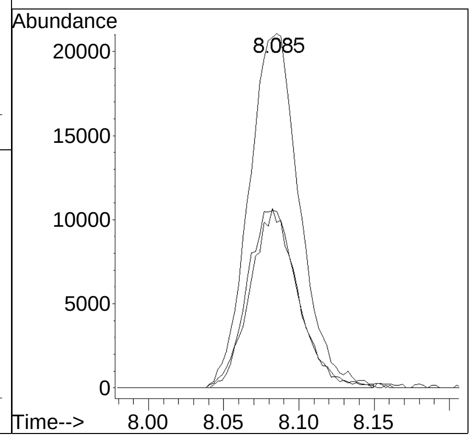
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 100 | 36.2 | 31.8 | 47.6 |
| 43 | 296.7 | 212.5 | 318.7 |

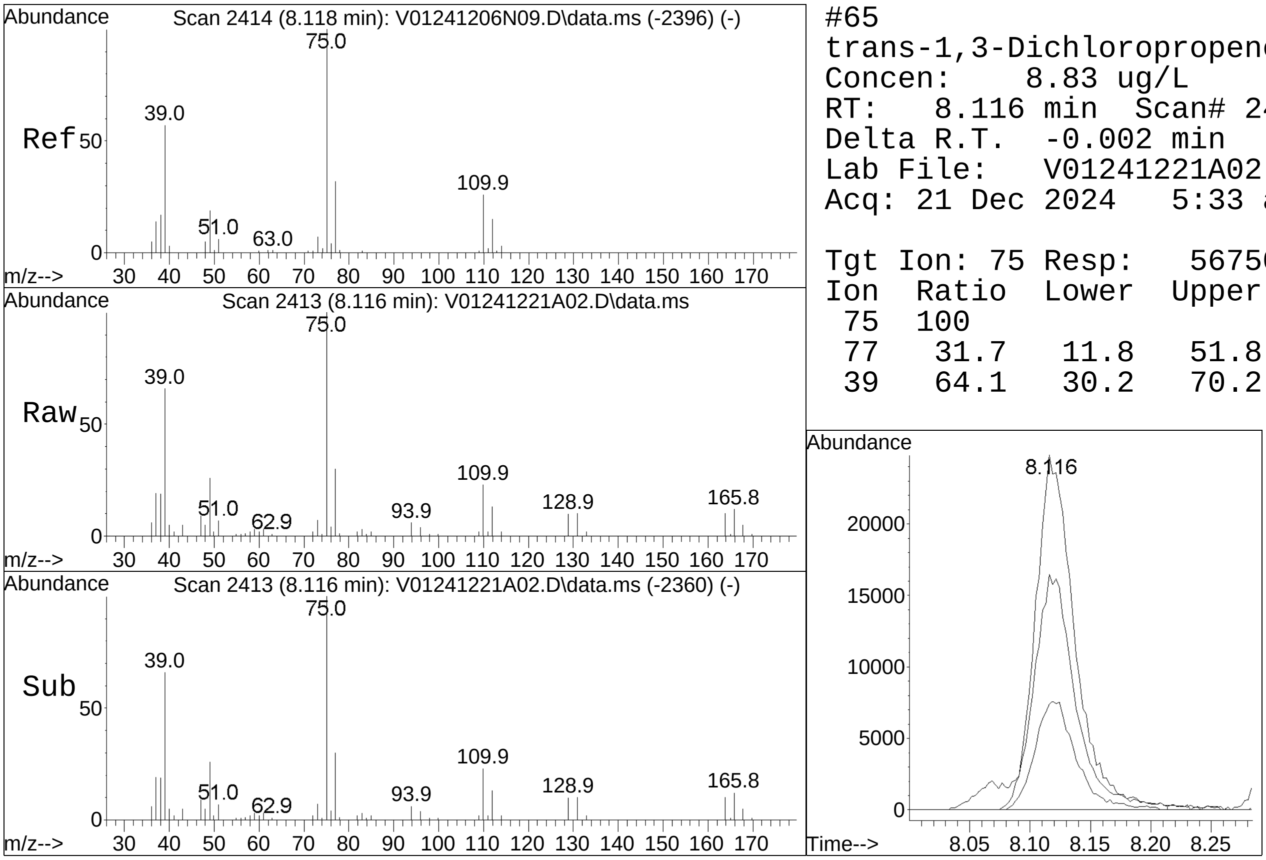



#63
Tetrachloroethene
Concen: 9.04 ug/L
RT: 8.085 min Scan# 2402
Delta R.T. 0.006 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion:166 Resp: 49629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 168 | 47.6 | 27.4 | 67.4 |
| 94 | 50.6 | 24.8 | 64.8 |

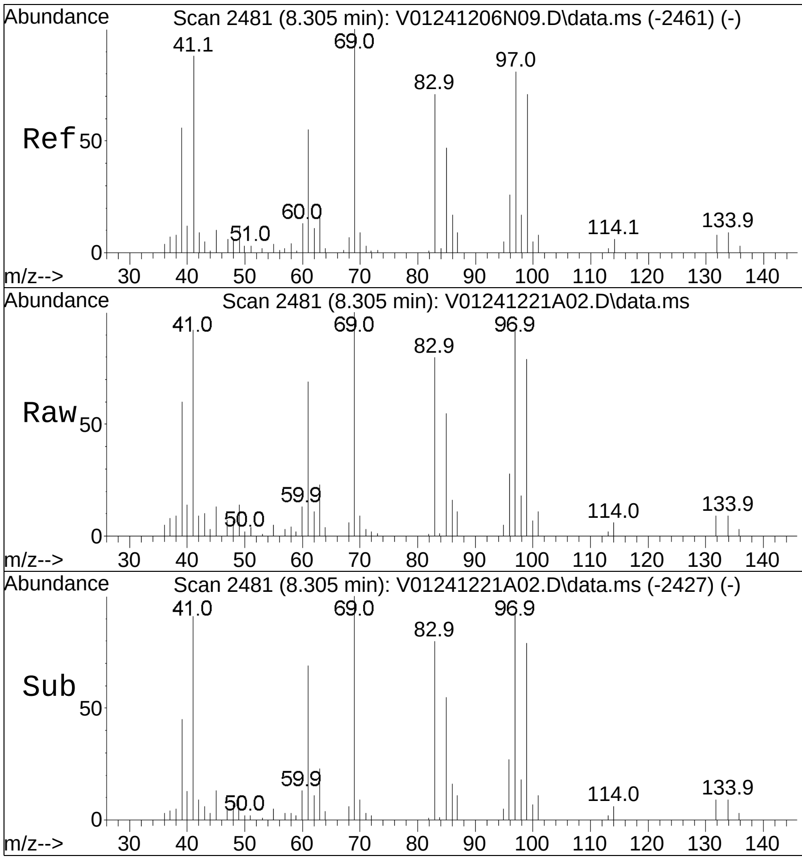





#65
trans-1,3-Dichloropropene
Concen: 8.83 ug/L
RT: 8.116 min Scan# 2413
Delta R.T. -0.002 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 75 Resp: 56750

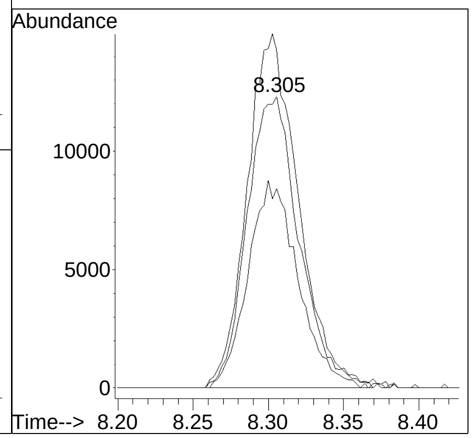
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.7 | 11.8 | 51.8 |
| 39 | 64.1 | 30.2 | 70.2 |

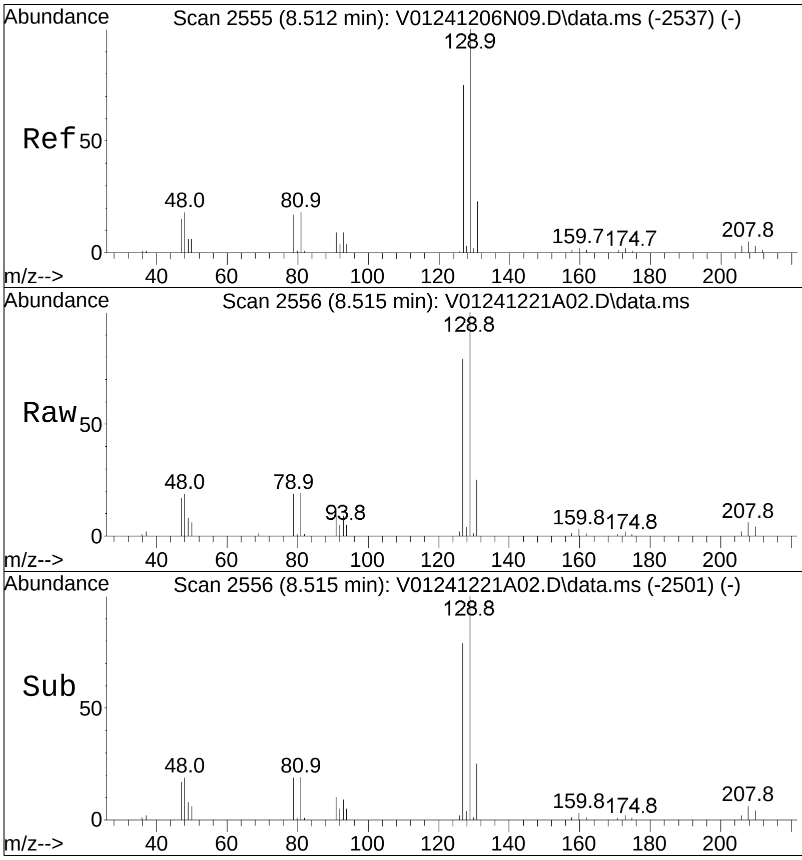



#68
1,1,2-Trichloroethane
Concen: 9.83 ug/L
RT: 8.305 min Scan# 2481
Delta R.T. 0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 83 Resp: 29794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 97 | 119.2 | 96.7 | 136.7 |
| 85 | 68.2 | 45.3 | 85.3 |

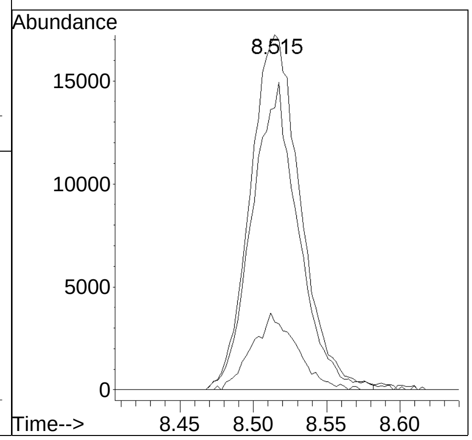


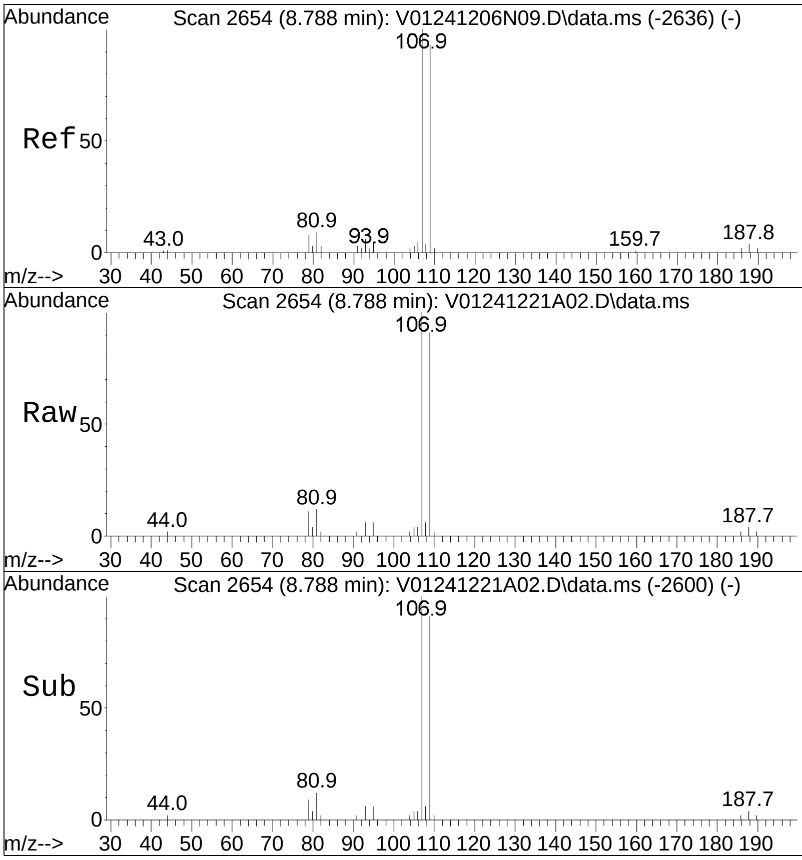



#69
Chlorodibromomethane
Concen: 8.85 ug/L
RT: 8.515 min Scan# 2556
Delta R.T. 0.003 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion:129 Resp: 41190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 81 | 19.3 | 0.0 | 37.9 |
| 127 | 80.5 | 56.6 | 96.6 |

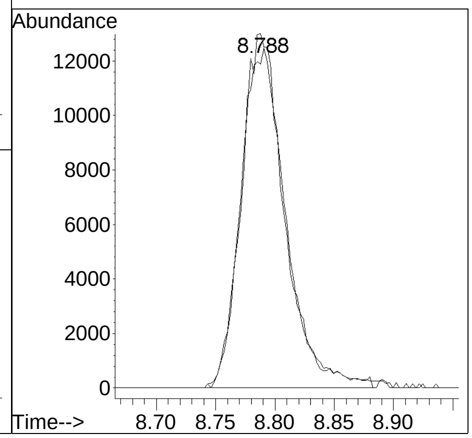


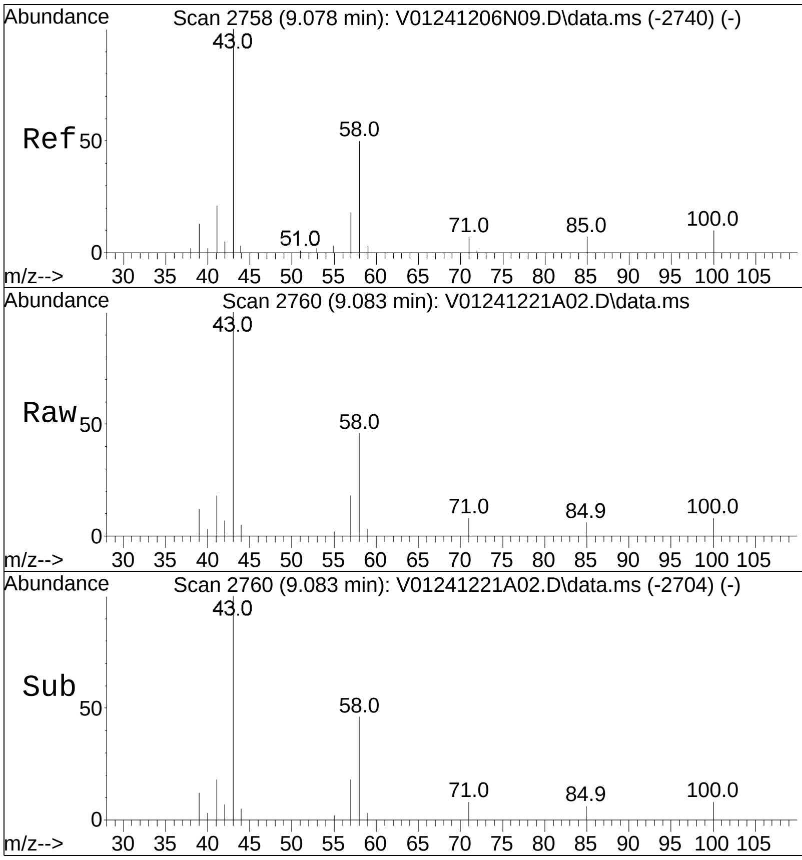



#71
1,2-Dibromoethane
Concen: 9.55 ug/L
RT: 8.788 min Scan# 2654
Delta R.T. -0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion:107 Resp: 33762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.0 | 75.6 | 113.4 |

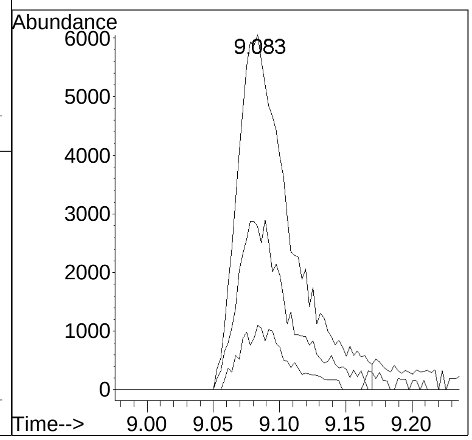


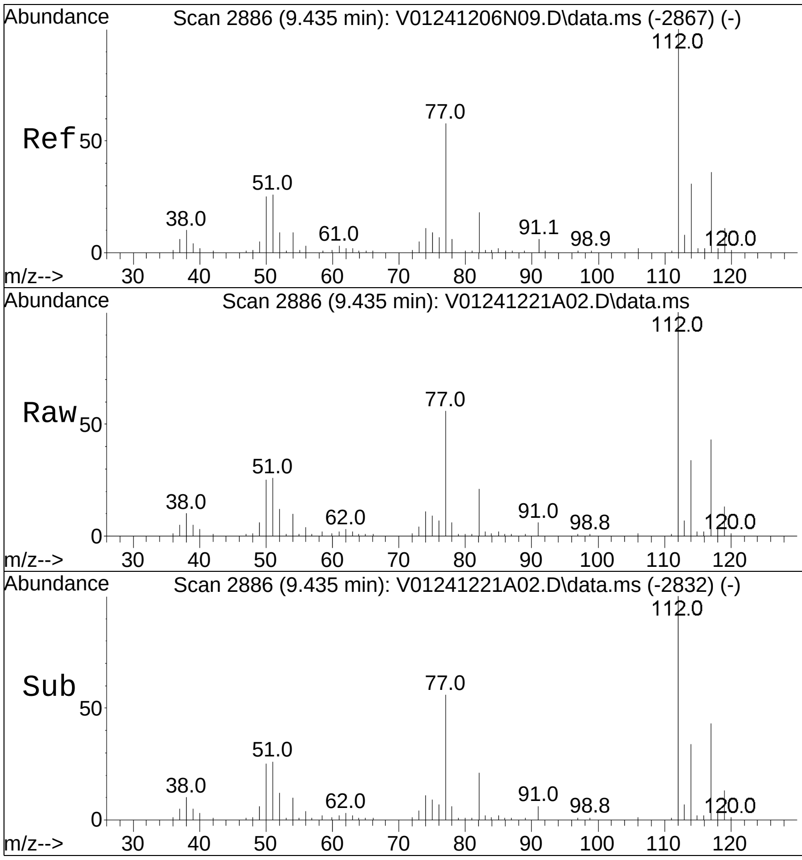



#72
2-Hexanone
Concen: 8.72 ug/L M1
RT: 9.083 min Scan# 2760
Delta R.T. 0.005 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 43 Resp: 17319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.3 | 40.8 | 61.2 |
| 57 | 0.7 | 14.2 | 21.4# |

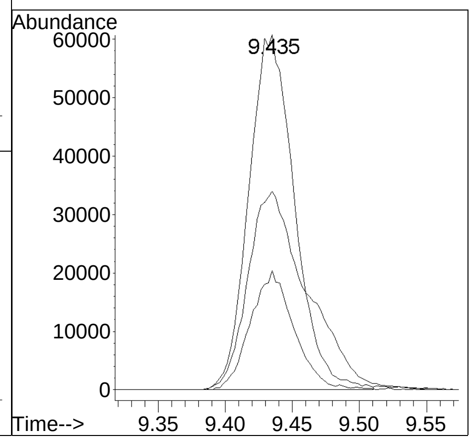


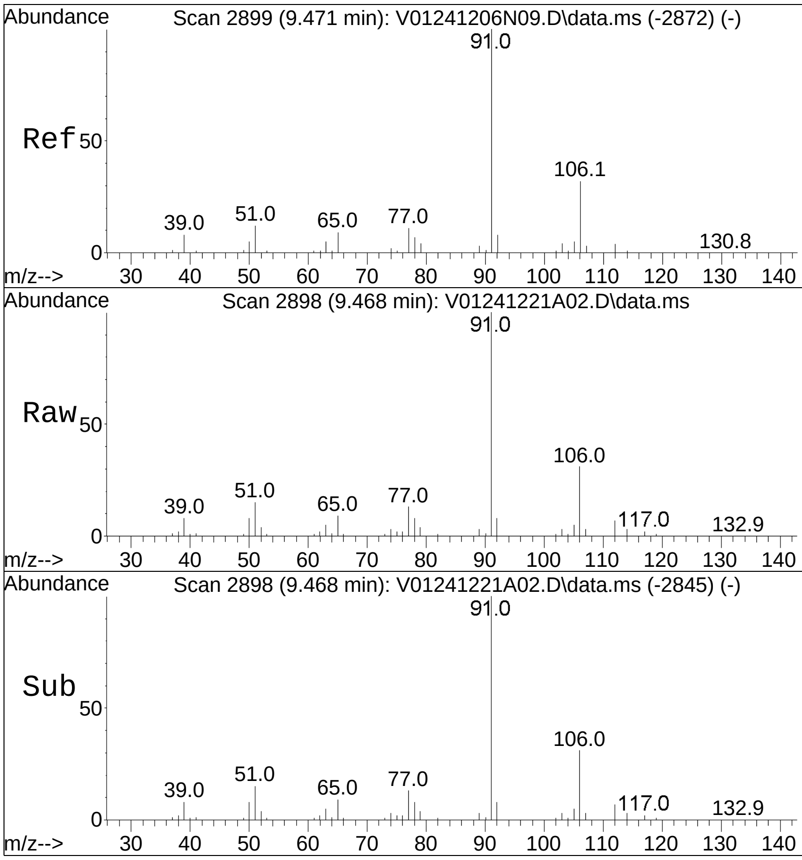



#73
Chlorobenzene
Concen: 9.64 ug/L
RT: 9.435 min Scan# 2886
Delta R.T. -0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion:112 Resp: 144148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 72.7 | 59.8 | 89.6 |
| 114 | 31.8 | 25.4 | 38.2 |

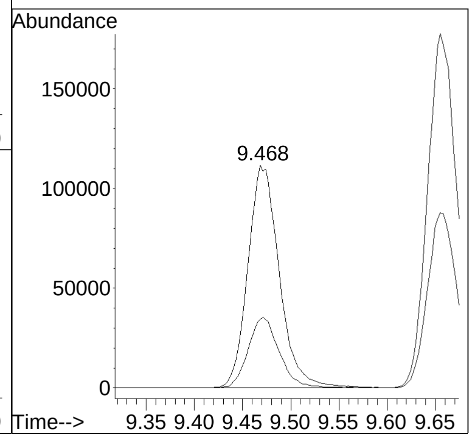


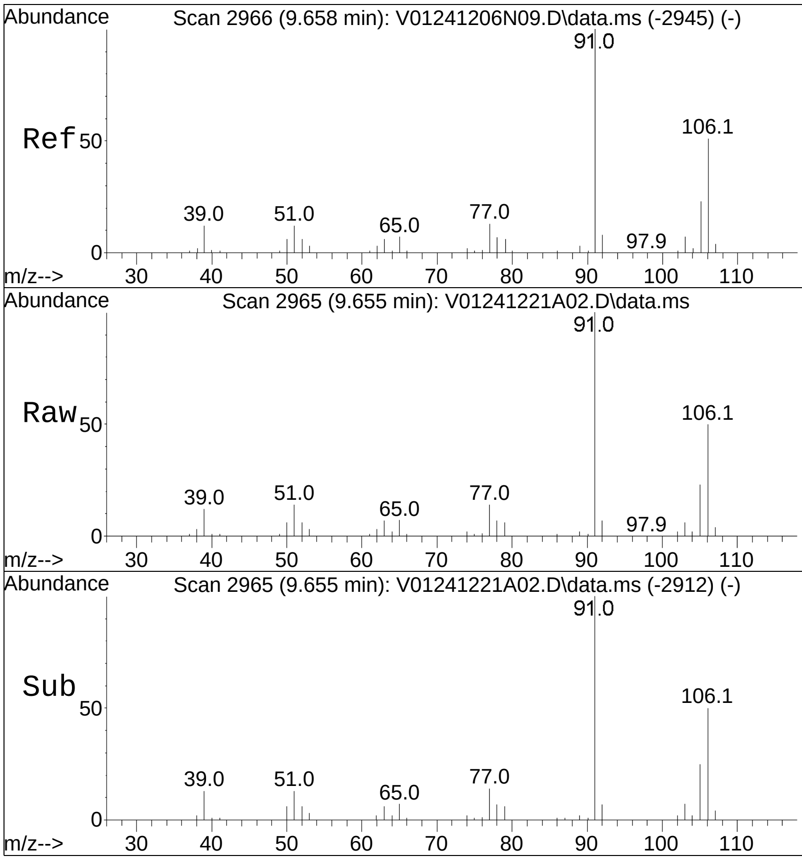



#74
Ethylbenzene
Concen: 9.85 ug/L
RT: 9.468 min Scan# 2898
Delta R.T. -0.003 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 91 Resp: 253944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.3 | 24.7 | 37.1 |

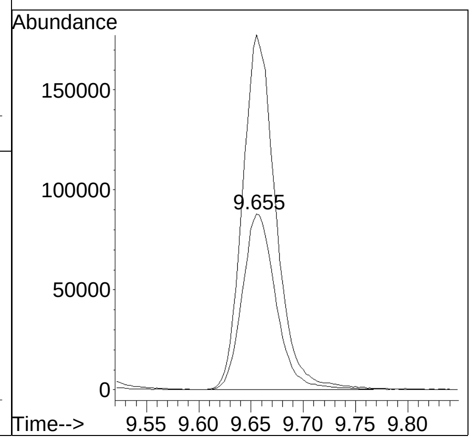


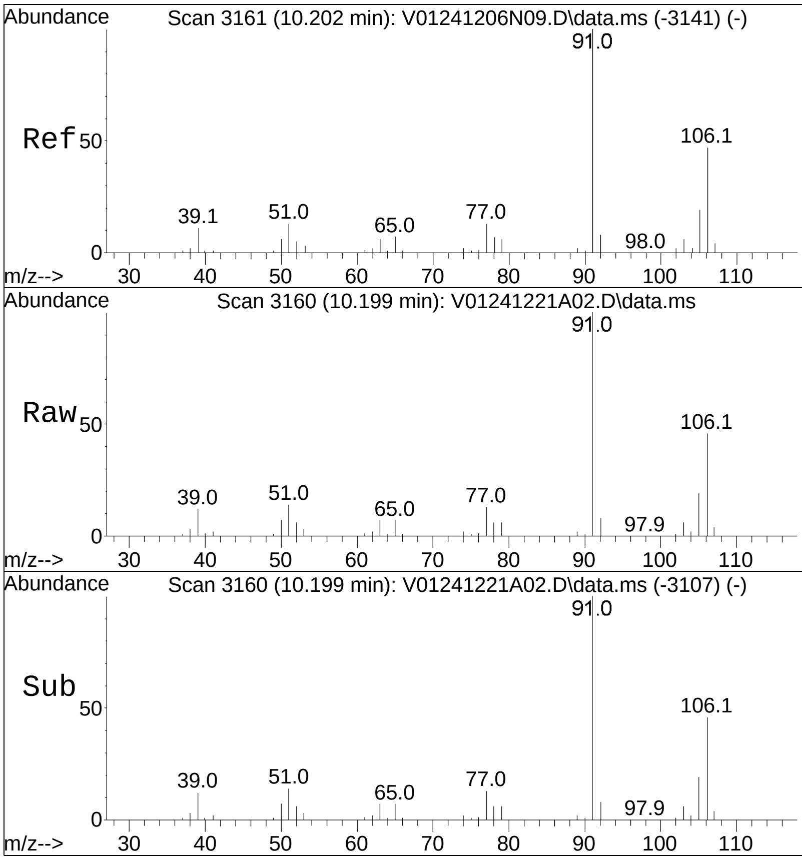



#76
p/m Xylene
Concen: 19.28 ug/L
RT: 9.655 min Scan# 2965
Delta R.T. -0.003 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion:106 Resp: 197732

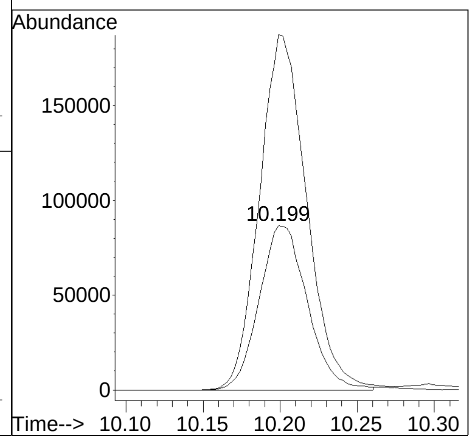
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 198.3 | 162.9 | 244.3 |

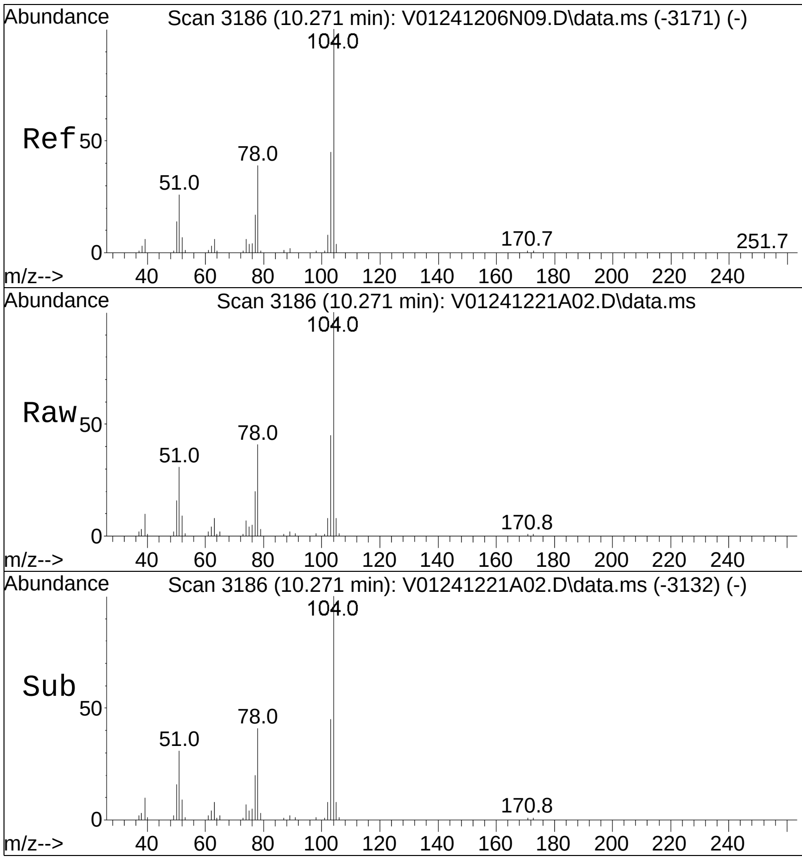





#77
o Xylene
Concen:   19.16 ug/L
RT:  10.199 min  Scan# 3160
Delta R.T.  -0.003 min
Lab File:   V01241221A02.D
Acq: 21 Dec 2024   5:33 am

Tgt Ion:106 Resp:  187427
Ion  Ratio  Lower  Upper
106  100
 91  213.1  171.2  256.8

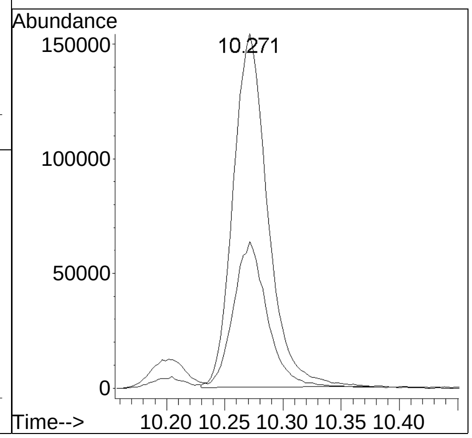


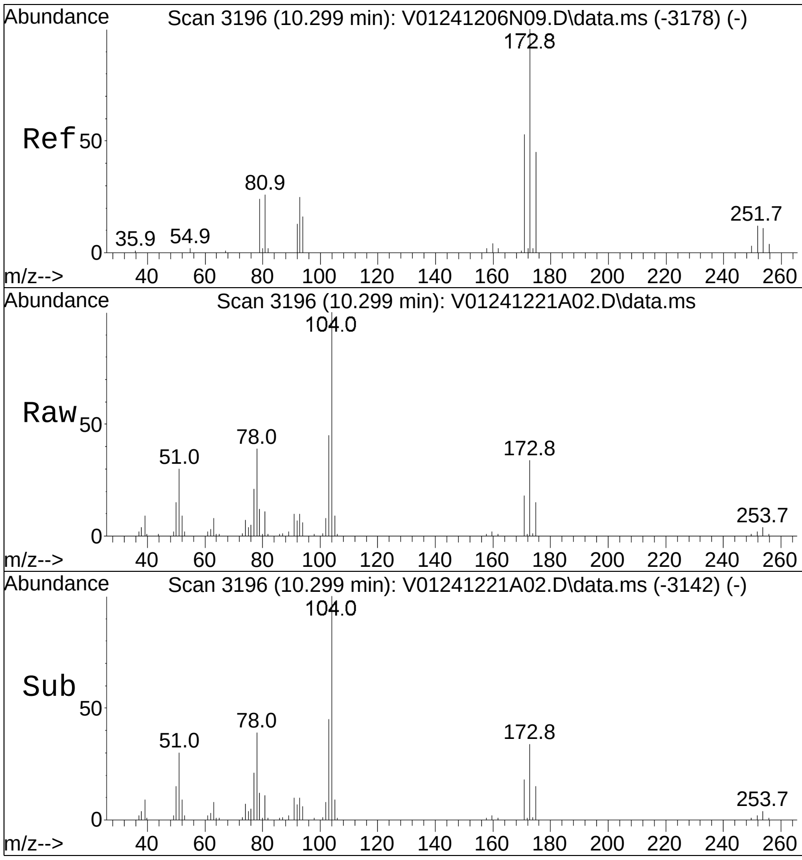



#78
Styrene
Concen:   19.71 ug/L
RT:  10.271 min  Scan# 3186
Delta R.T.  0.000 min
Lab File:   V01241221A02.D
Acq: 21 Dec 2024   5:33 am

Tgt Ion:104 Resp:  318987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 40.6 | 34.2 | 51.4 |

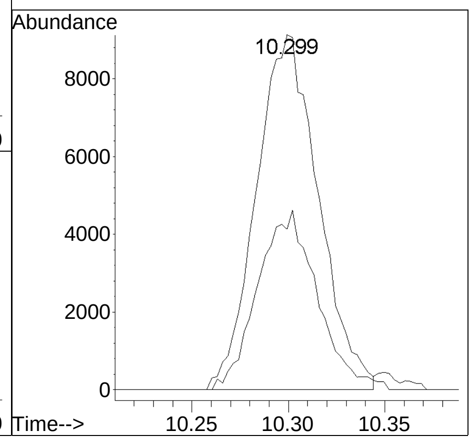


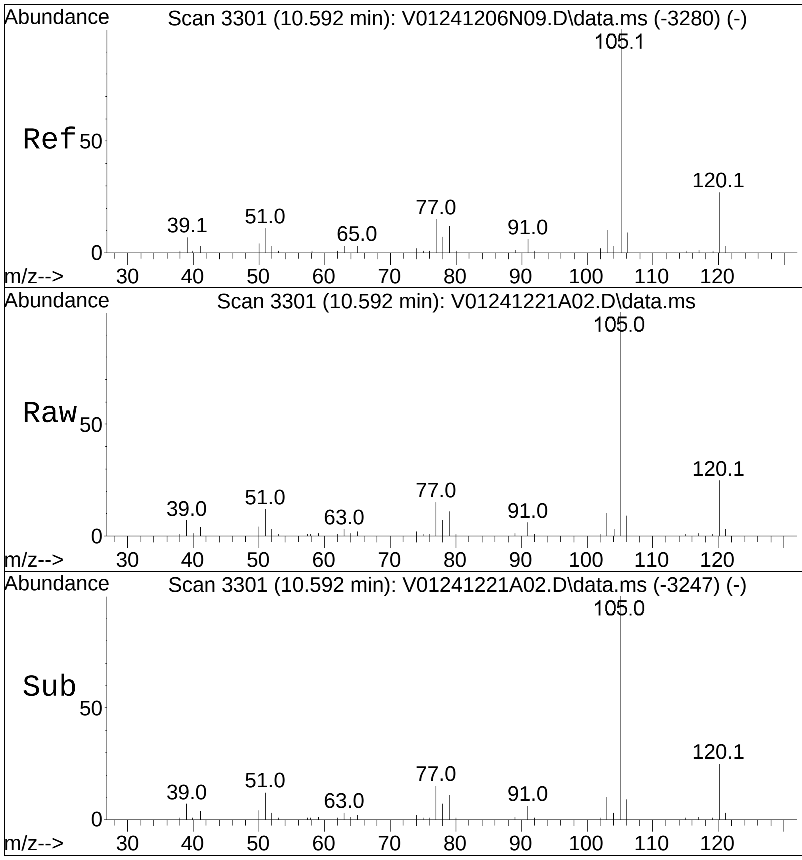



#80
Bromoform
Concen: 8.40 ug/L
RT: 10.299 min Scan# 3196
Delta R.T. 0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion:173 Resp: 20446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.5 | 28.6 | 68.6 |

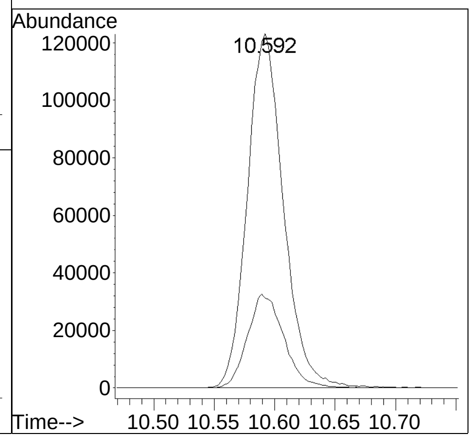


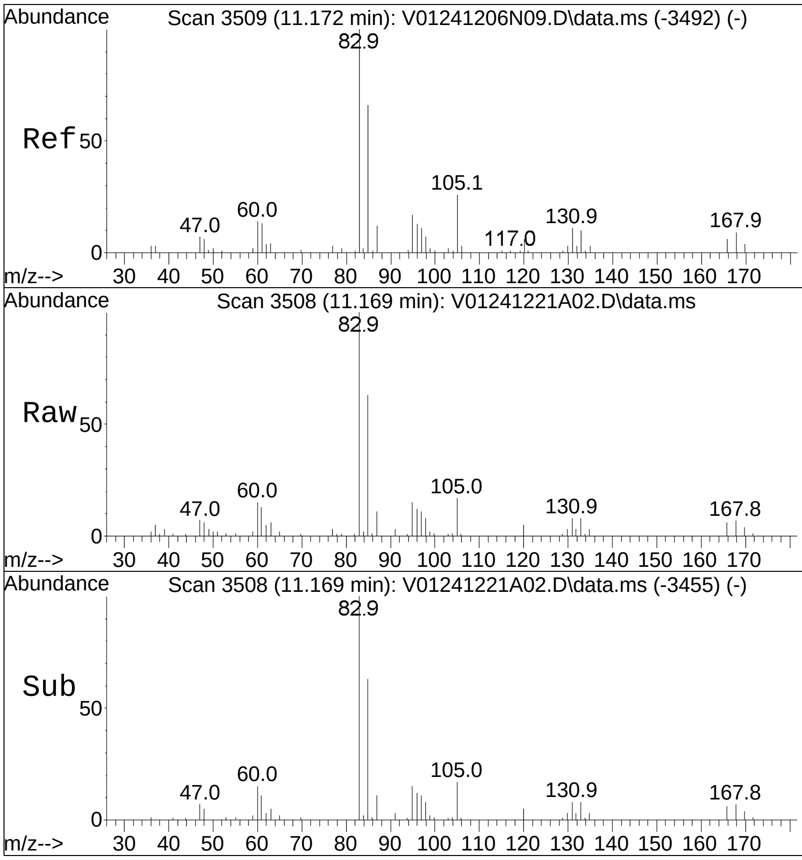



#82
Isopropylbenzene
Concen: 9.80 ug/L
RT: 10.592 min Scan# 3301
Delta R.T. 0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion:105 Resp: 256625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.6 | 7.3 | 47.3 |

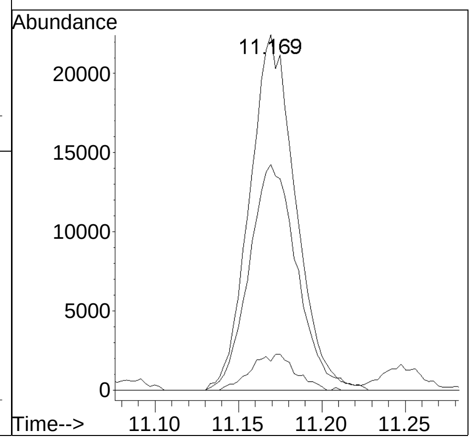


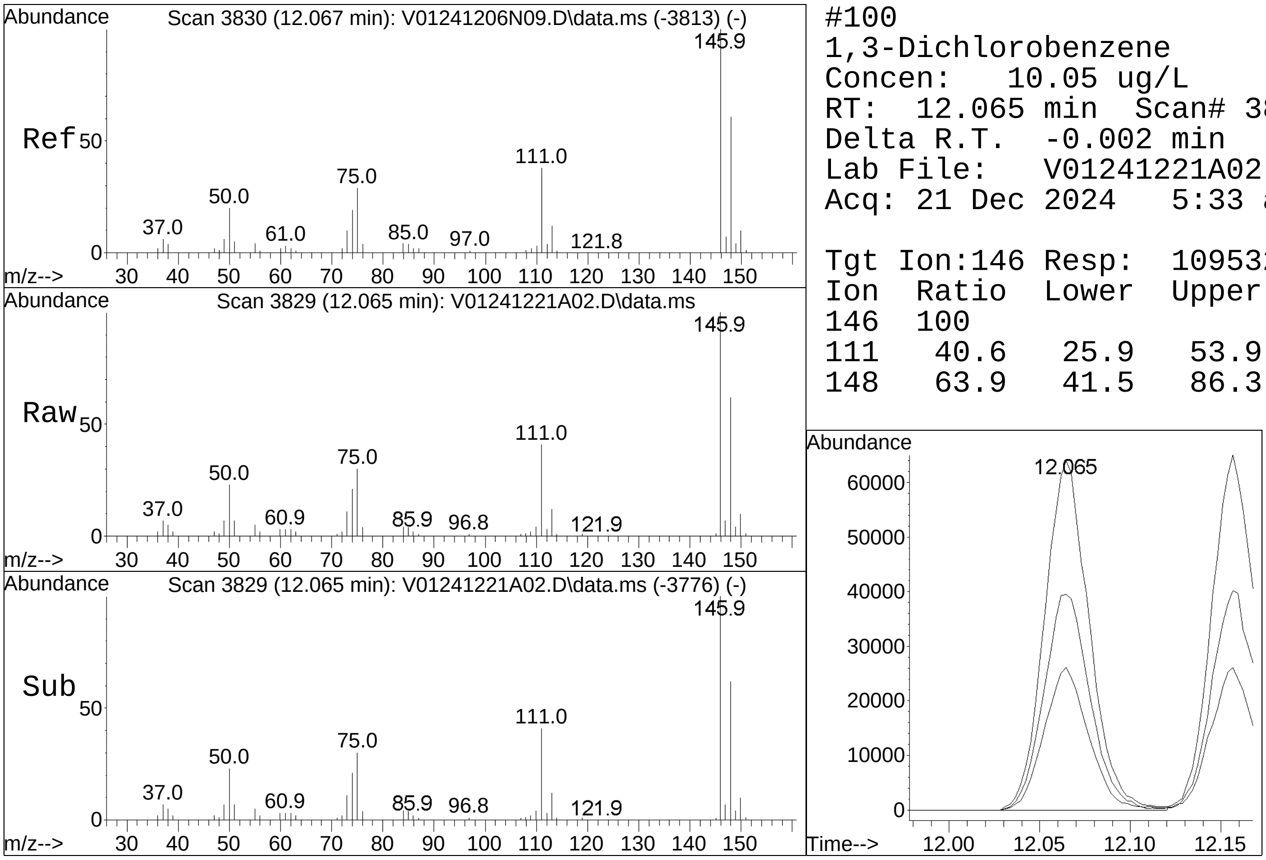



#87
1,1,2,2-Tetrachloroethane
Concen: 10.65 ug/L
RT: 11.169 min Scan# 3508
Delta R.T. -0.003 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion: 83 Resp: 43009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.7 | 0.0 | 30.1 |
| 85 | 66.5 | 45.8 | 85.8 |

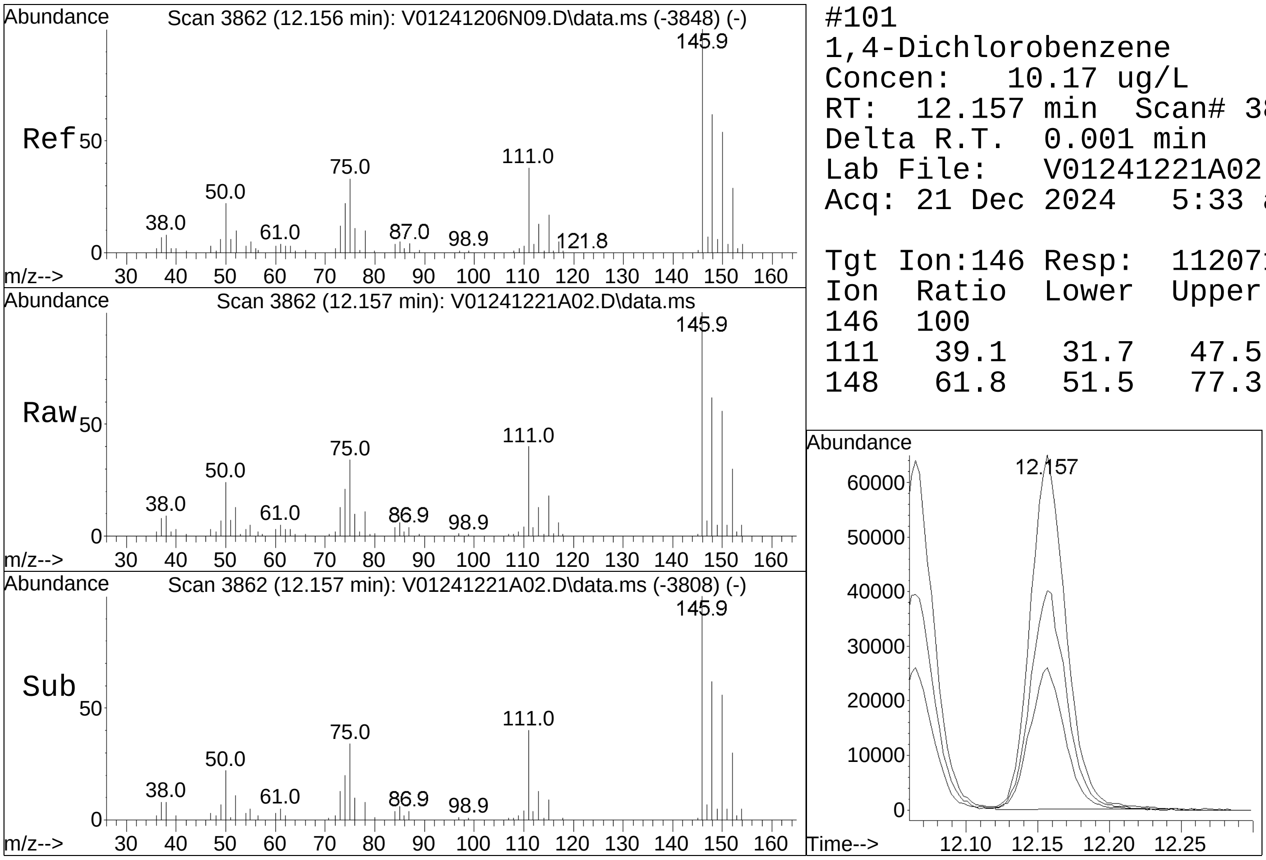





#100
1,3-Dichlorobenzene
Concen: 10.05 ug/L
RT: 12.065 min Scan# 3829
Delta R.T. -0.002 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion:146 Resp: 109532

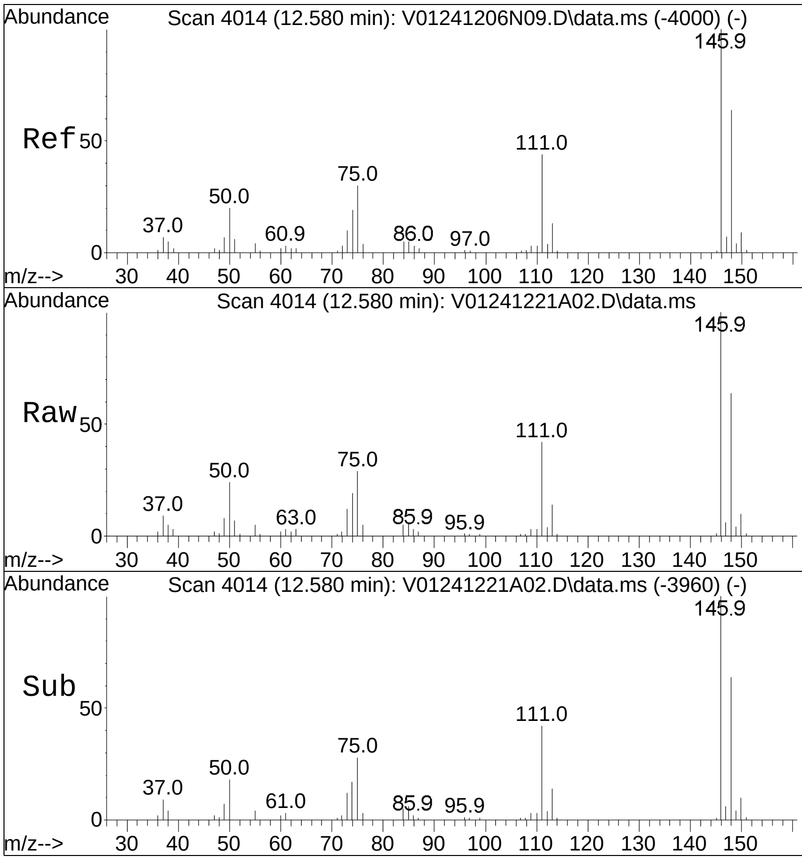
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.6 | 25.9 | 53.9 |
| 148 | 63.9 | 41.5 | 86.3 |




#101
1,4-Dichlorobenzene
Concen: 10.17 ug/L
RT: 12.157 min Scan# 3862
Delta R.T. 0.001 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion:146 Resp: 112071

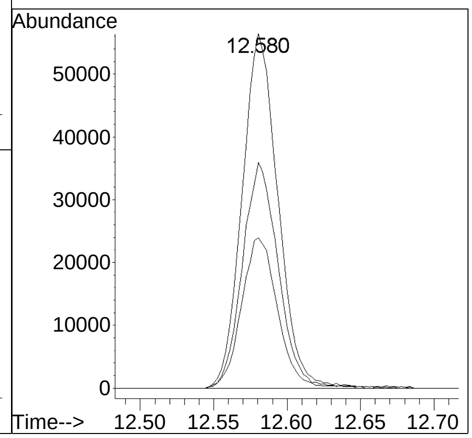
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.1 | 31.7 | 47.5 |
| 148 | 61.8 | 51.5 | 77.3 |

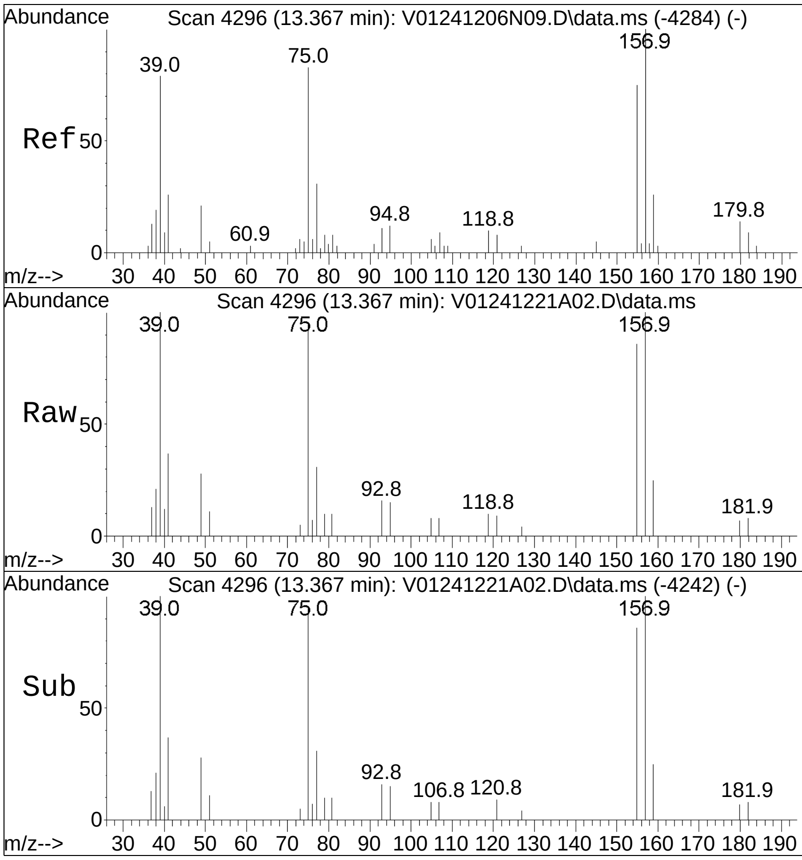



#104
1,2-Dichlorobenzene
Concen: 10.12 ug/L
RT: 12.580 min Scan# 4014
Delta R.T. 0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion:146 Resp: 95956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.3 | 26.8 | 55.8 |
| 148 | 63.2 | 41.6 | 86.4 |

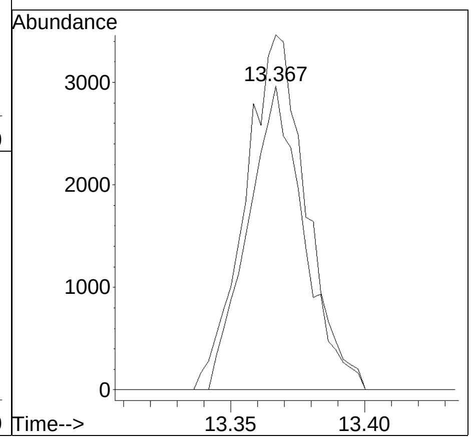


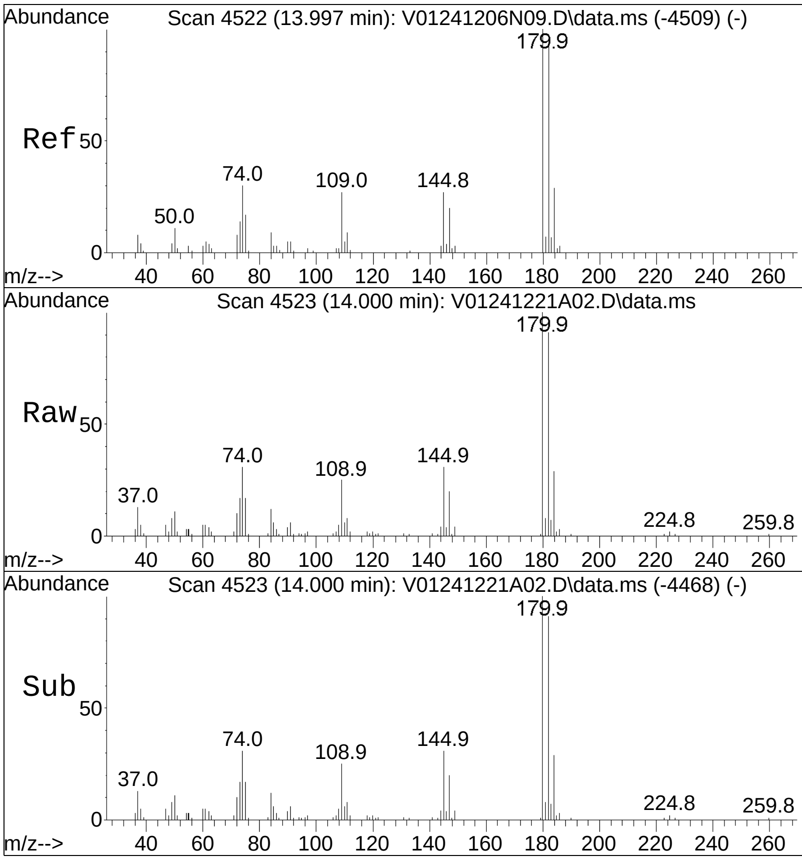



#106
1,2-Dibromo-3-chloropropane
Concen: 8.48 ug/L
RT: 13.367 min Scan# 4296
Delta R.T. -0.000 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion:155 Resp: 4314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 155 | 100 | | |
| 157 | 127.7 | 101.1 | 151.7 |

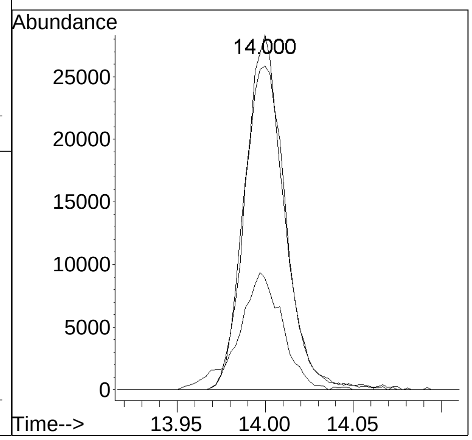


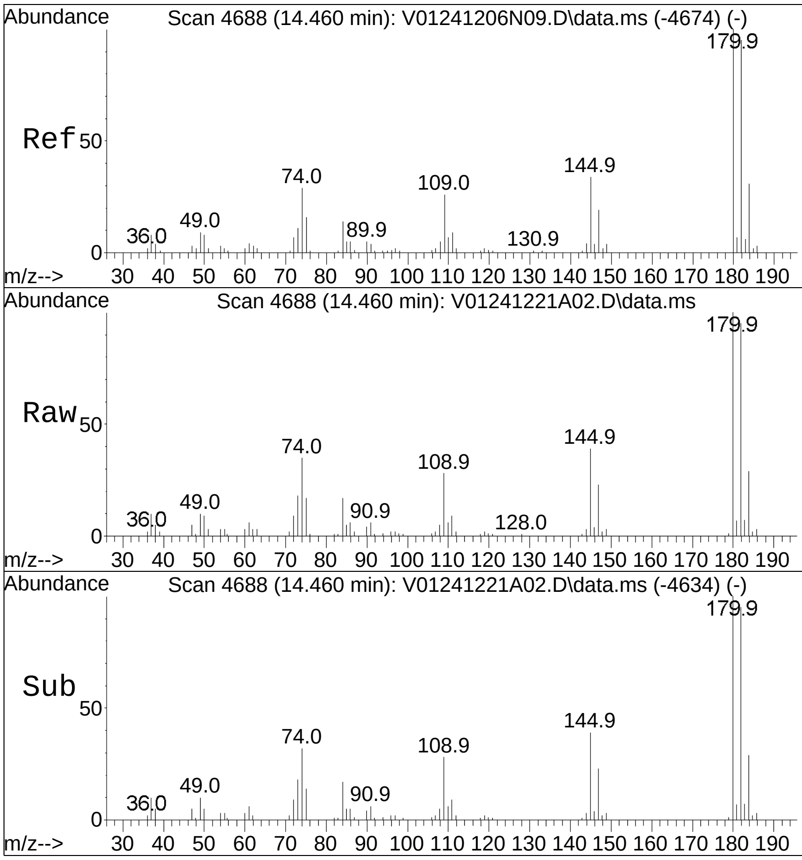



#109
1,2,4-Trichlorobenzene
Concen: 9.23 ug/L
RT: 14.000 min Scan# 4523
Delta R.T. 0.003 min
Lab File: V01241221A02.D
Acq: 21 Dec 2024 5:33 am

Tgt Ion:180 Resp: 44913

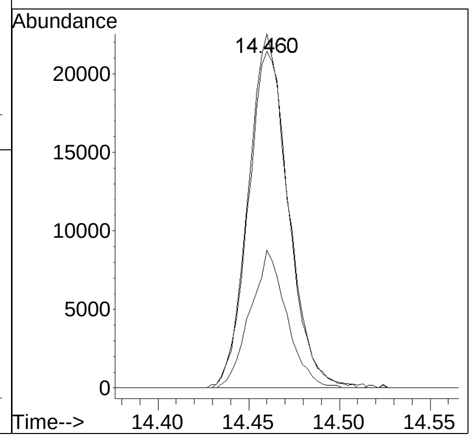
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.4 | 75.8 | 113.8 |
| 145 | 36.3 | 26.1 | 39.1 |






```
#111
1,2,3-Trichlorobenzene
Concen:    9.25 ug/L
RT:  14.460 min  Scan# 4688
Delta R.T.  -0.000 min
Lab File:   V01241221A02.D
Acq: 21 Dec 2024   5:33 am

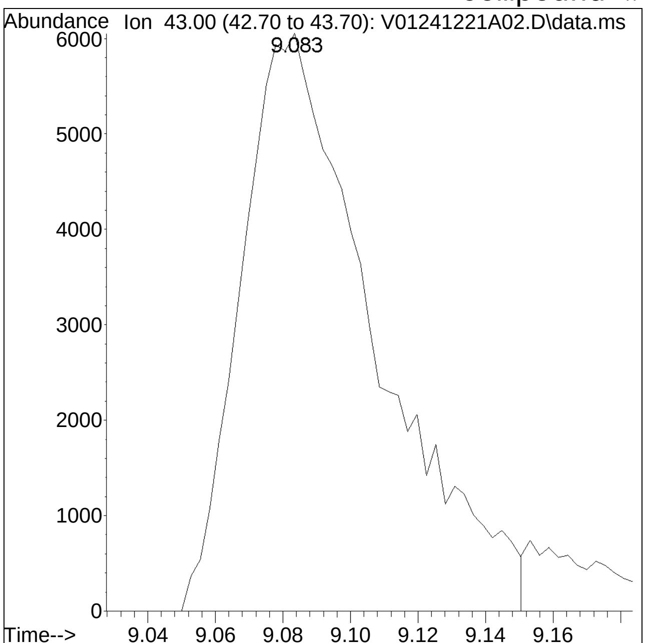
Tgt Ion:180 Resp:   34608
Ion  Ratio  Lower  Upper
180  100
182   96.1   75.4  113.0
145   35.6   25.0   37.6
```

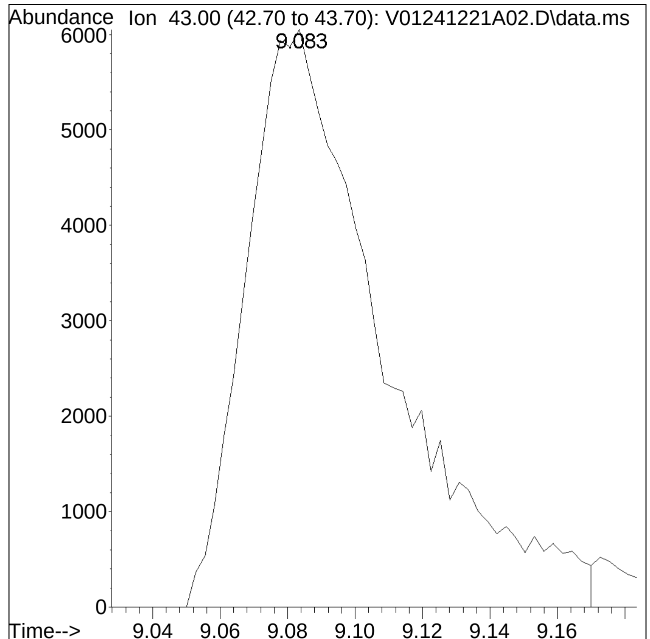


Manual Integration Report

```
Data Path    : K:\VOA101\2024\241221A\   QMethod     : V101_241206N_8260.m
Data File    : V01241221A02.D            Operator    : VOA101:PID
Date Inj'd   : 12/21/2024  5:33 am       Instrument  : VOA 101
Sample       : WG2012561-4,31,10,10      Quant Date  : 12/21/2024  6:00 am
```

Compound #72: 2-Hexanone




Original Peak Response = 16642        Manual Peak Response = 17319 M1

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

# 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)

Dec 24 2024, 10:28 am

Work Group: WG2012422 for Department: 31 GC/MS - Volatiles

Created: 22-DEC-24 Due: Operator: PID

| Sample | Client ID | C | Product | Matrix | Stat | UA | HOLD | DUE | PR | Location |
|---|---|---|---|---|---|---|---|---|---|---|
| L2473569-01 | MW-106 ROUND 1 | S | NYTCL-8260-R2 | WATER | DONE | U | 1227 | 1220 | S0 | Vial-B |
| L2473569-02 | MW-103 ROUND 1 | S | NYTCL-8260-R2 | WATER | DONE | U | 1227 | 1220 | S0 | Vial-B |
| L2473569-03 | MW-107 ROUND 1 | S | NYTCL-8260-R2 | WATER | DONE | U | 1227 | 1220 | S0 | Vial-B |
| L2473569-04 | MW-105 ROUND 1 | S | NYTCL-8260-R2 | WATER | DONE | U | 1227 | 1220 | S0 | Vial-B |
| L2473569-05 | MW-101 ROUND 1 | S | NYTCL-8260-R2 | WATER | DONE | U | 1227 | 1220 | S0 | Vial-B |
| L2473569-06 | DUP ROUND 1 | S | NYTCL-8260-R2 | WATER | DONE | U | 1227 | 1220 | S0 | Vial-B |
| L2473569-07 | TRIP BLANK | S | NYTCL-8260-R2 | WATER | DONE | U | 1227 | 1220 | S0 | Vial-B |
| L2474329-01 | MW-4S | S | NYTCL-8260 | WATER | DONE | U | 1230 | 1224 | S0 | Vial-B |
| L2474329-02 | MW-4D2 | S | NYTCL-8260 | WATER | DONE | U | 1230 | 1224 | S0 | Vial-B |
| L2475450-06 | TPMW1 (BH1) | S | NYTCL-8260-R2 | WATER | SEC | U | 0102 | 1230 | 3E | Vial-B |
| L2475450-07 | TPMW2 (BH3) | S | NYTCL-8260-R2 | WATER | SEC | U | 0102 | 1230 | 3E | Vial-B |
| L2475450-08 | TPMW3 (BH7) | S | NYTCL-8260-R2 | WATER | SEC | U | 0102 | 1230 | 3E | Vial-B |
| WG2012422-1 | MS BFB Tune Standard | S | NYTCL-8260 | WATER | DONE | U | | | | |
| WG2012422-1 | MS BFB Tune Standard | S | NYTCL-8260-R2 | WATER | DONE | U | | | | |
| WG2012422-10 | Laboratory Control S | S | NYTCL-8260-R2 | WATER | DACQ | U | | | | |
| WG2012422-10 | Laboratory Control S | S | NYTCL-8260 | WATER | DONE | U | | | | |
| WG2012422-11 | LCS Duplicate | S | NYTCL-8260-R2 | WATER | DACQ | U | | | | |
| WG2012422-11 | LCS Duplicate | S | NYTCL-8260 | WATER | DONE | U | | | | |
| WG2012422-12 | Laboratory Method Bl | S | NYTCL-8260-R2 | WATER | DACQ | U | | | | |
| WG2012422-12 | Laboratory Method Bl | S | NYTCL-8260 | WATER | DONE | U | | | | |
| WG2012422-2 | Continuing Calibrati | S | NYTCL-8260 | WATER | DONE | U | | | | |
| WG2012422-2 | Continuing Calibrati | S | NYTCL-8260-R2 | WATER | DONE | U | | | | |
| WG2012422-3 | Laboratory Control S | S | NYTCL-8260 | WATER | DONE | U | | | | |
| WG2012422-3 | Laboratory Control S | S | NYTCL-8260-R2 | WATER | DACQ | U | | | | |
| WG2012422-4 | LCS Duplicate | S | NYTCL-8260 | WATER | DONE | U | | | | |
| WG2012422-4 | LCS Duplicate | S | NYTCL-8260-R2 | WATER | DACQ | U | | | | |
| WG2012422-5 | Laboratory Method Bl | S | NYTCL-8260 | WATER | DONE | U | | | | |
| WG2012422-5 | Laboratory Method Bl | S | NYTCL-8260-R2 | WATER | DACQ | U | | | | |
| WG2012422-6 | Matrix Spike | S | NYTCL-8260-R2 | WATER | DACQ | U | | | | |
| WG2012422-6 | Matrix Spike | S | NYTCL-8260 | WATER | DONE | U | | | | |
| WG2012422-7 | Matrix Spike Duplica | S | NYTCL-8260 | WATER | DONE | U | | | | |
| WG2012422-7 | Matrix Spike Duplica | S | NYTCL-8260-R2 | WATER | DACQ | U | | | | |
| WG2012422-8 | MS BFB Tune Standard | S | NYTCL-8260 | WATER | DONE | U | | | | |
| WG2012422-8 | MS BFB Tune Standard | S | NYTCL-8260-R2 | WATER | DONE | U | | | | |
| WG2012422-9 | Continuing Calibrati | S | NYTCL-8260-R2 | WATER | DONE | U | | | | |
| WG2012422-9 | Continuing Calibrati | S | NYTCL-8260 | WATER | DONE | U | | | | |

Comments:

| | |
|---|---|
| WG2012422-11 | WG2012422-10 |
| WG2012422-4 | WG2012422-3 |
| WG2012422-6 | L2473569-01 |
| WG2012422-7 | L2473569-01 |

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Dec 26 2024, 03:50 pm

Work Group: WG2012561 for Department: 31 GC/MS - Volatiles

Created: 23-DEC-24 Due: Operator: mjv

| Sample | Client ID | C | Product | Matrix | Stat | UA | HOLD | DUE | PR | Location |
|---|---|---|---|---|---|---|---|---|---|---|
| L2474156-01 | TW-05 | C | NYTCL-8260 | WATER | DONE | U | 1231 | 1224 | S0 | Vial-B |
| L2474239-01 | TW-2 | S | NYTCL-8260 | WATER | DONE | U | 1230 | 1224 | S0 | Vial-B |
| L2474239-02 | TW-3 | S | NYTCL-8260 | WATER | DONE | U | 1230 | 1224 | S0 | Vial-B |
| L2474239-03 | TW-1 | S | NYTCL-8260 | WATER | DONE | U | 1231 | 1224 | S0 | Vial-B |
| L2474239-04 | TW-4 | S | NYTCL-8260 | WATER | DONE | U | 1231 | 1224 | S0 | Vial-B |
| L2474239-05 | TW-5 | S | NYTCL-8260 | WATER | DONE | U | 1231 | 1224 | S0 | Vial-B |
| L2474285-01 | MW-3S | C | NYTCL-8260 | WATER | DONE | U | 1231 | 1224 | S0 | Vial-B |
| L2474285-02 | MW-3D | C | NYTCL-8260 | WATER | DONE | U | 1231 | 1224 | S0 | Vial-B |
| L2474285-03 | MW-6S | C | NYTCL-8260 | WATER | DONE | U | 1231 | 1224 | S0 | Vial-B |
| L2474285-04 | MW-6D | C | NYTCL-8260 | WATER | DONE | U | 1231 | 1224 | S0 | Vial-B |
| L2474285-05 | MW-8S | C | NYTCL-8260 | WATER | DONE | U | 1231 | 1224 | S0 | Vial-B |
| L2474285-06 | MW-8D | C | NYTCL-8260 | WATER | DONE | U | 1231 | 1224 | S0 | Vial-B |
| L2474285-07 | MW-5S | C | NYTCL-8260 | WATER | DONE | U | 1231 | 1224 | S0 | Vial-B |
| L2474329-03 | MW-12S | S | NYTCL-8260 | WATER | DONE | U | 1230 | 1224 | S0 | Vial-B |
| L2474329-04 | MW-12D | S | NYTCL-8260 | WATER | DONE | U | 1230 | 1224 | S0 | Vial-B |
| L2474329-05 | EB-12162024 | S | NYTCL-8260 | WATER | DONE | U | 1230 | 1224 | S0 | Vial-B |
| L2474329-06 | TB-12162024 | S | NYTCL-8260 | WATER | DONE | U | 1230 | 1224 | S0 | Vial-B |
| L2474666-07 | FB-01_20241218 | S | NYTCL-8260 | WATER | DONE | U | 0101 | 1226 | S0 | Vial-B |
| L2474702-01 | WC-1_241217 | S | NYTCL-8260 | WATER | SEC | U | 1231 | 1227 | S0 | Vial-B |
| WG2012561-1 | MS BFB Tune Standard | S | NYTCL-8260 | WATER | DONE | U | | | | |
| WG2012561-2 | Continuing Calibrati | S | NYTCL-8260 | WATER | DONE | U | | | | |
| WG2012561-3 | Laboratory Control S | S | NYTCL-8260 | WATER | DONE | U | | | | |
| WG2012561-4 | LCS Duplicate | S | NYTCL-8260 | WATER | DONE | U | | | | |
| WG2012561-5 | Laboratory Method Bl | S | NYTCL-8260 | WATER | DONE | U | | | | |

Comments:

WG2012561-4 WG2012561-3

Method

Inst: VOA105 BFB: V10735 GC: 8260

Initials: TMS IS/SS: V10782 Autosampler: 8260wate

Date: **11/06/24** ICAL: V10788A,V10781 Concentrator: 8260

Run: **A** ICV: V10780,V10761,V10771,V10762,V10745,V10756 QC:_____ Seq:_______

| Vial | Data File | Sample | |
|---|---|---|---|
| 1 | V05241106ABF1 | BFB TUNE | |
| 1 | V05241106A01 | BLK | |
| 2 | V05241106A02 | BLK | |
| 3 | V05241106A03 | I8260STD0.19PPB | |
| 4 | V05241106A04 | I8260STD0.19PPB | |
| 5 | V05241106A05 | I8260STD0.5PPB | |
| 6 | V05241106A06 | I8260STD0.5PPB | |
| 7 | V05241106A07 | I8260STD2PPB | |
| 8 | V05241106A08 | I8260STD2PPB | |
| 9 | V05241106A09 | I8260STD10PPB | |
| 10 | V05241106A10 | I8260STD30PPB | |
| 11 | V05241106A11 | I8260STD80PPB | |
| 12 | V05241106A12 | I8260STD120PPB | |
| 13 | V05241106A13 | I8260STD200PPB | |
| 14 | V05241106A14 | BLK | |
| 15 | V05241106A15 | BLK | |
| 16 | V05241106A16 | BLK | |
| 17 | V05241106A17 | BLK | |
| 18 | V05241106A18 | C8260STD10PPB | |
| 19 | V05241106A19 | C8260STD10PPB | |
| 20 | V05241106A20 | BLK | |

Method

Inst: VOA101 BFB: V10797 GC: 8260

Initials: TMS IS/SS: V10826 Autosampler: 8260water

Date: **12/06/24** ICAL: V10829B,V10828 Concentrator: 8260water

Run: **N** ICV: V10834,V10817,V10835,V10818,V10819,V10820 QC: ______ Seq:

| Vial | DATA FILE | SAMPLE | |
|---|---|---|---|
| 1 | V01241206NBF1 | BFB TUNE | |
| 1 | V01241206N01 | BLK | |
| 2 | V01241206N02 | BLK | |
| 3 | V01241206N03 | I8260STD0.19PPB | |
| 4 | V01241206N04 | I8260STD0.19PPB | |
| 5 | V01241206N05 | I8260STD0.5PPB | |
| 6 | V01241206N06 | I8260STD0.5PPB | |
| 7 | V01241206N07 | I8260STD2PPB | |
| 8 | V01241206N08 | I8260STD2PPB | |
| 9 | V01241206N09 | I8260STD10PPB | |
| 10 | V01241206N10 | I8260STD30PPB | |
| 11 | V01241206N11 | I8260STD80PPB | |
| 12 | V01241206N12 | I8260STD120PPB | |
| 13 | V01241206N13 | I8260STD200PPB | |
| 14 | V01241206N14 | BLK | |
| 15 | V01241206N15 | BLK | |
| 16 | V01241206N16 | BLK | |
| 17 | V01241206N17 | BLK | |
| 18 | V01241206N18 | C8260STD10PPB | |
| 19 | V01241206N19 | C8260STD10PPB | |
| 20 | V01241206N20 | BLK | |
| 21 | V01241206N21 | METHOD BLK | |
| 22 | V01241206N22 | MDL 0.19PPB | |
| 23 | V01241206N23 | MDL 0.19PPB | |
| 24 | V01241206N24 | MDL 0.5PPB | |
| 25 | V01241206N25 | MDL 2PPB | |
| 26 | V01241206N26 | MDL 0.5PPB | |
| 27 | V01241206N27 | MDL 2PPB | |
| 28 | V01241206N28 | BLK | |

Method

Inst: VOA105 BFB: V10847 GC: 8260

Initials: PID IS/SS: V10826 Autosampler: 8260wate

Date: **12/20/24** ICAL: V10829C,V10856 Concentrator: 8260

Run: **B** QC:_____ Seq:______

| Vial | Data File | Sample | | | |
|---|---|---|---|---|---|
| 1 | V05241220BBF1 | BFB TUNE 09:15 | | | |
| 1 | V05241220B01 | 8260 CCAL QC FAILS | | | |
| 2 | V05241220B02 | 8260 CCAL LCS | | | |
| 3 | V05241220B03 | 8260 CCAL LCSD | | | |
| 4 | V05241220B04 | BLK | | | |
| 5 | V05241220B05 | METHOD BLK | | | |
| 6 | V05241220B06 | L2473420-02,31,10,10,,C | NYTCL | | pH<2 |
| 7 | V05241220B07 | DSTD | | | |
| 8 | V05241220B08 | L2473569-01,31,10,10,,A | NY/R2/10 | | pH<2 |
| 9 | V05241220B09 | L2473569-02,31,10,10,,A | NY/R2/10 | | pH<2 |
| 10 | V05241220B10 | L2473569-03,31,10,10,,A | NY/R2/10 | | pH<2 |
| 11 | V05241220B11 | L2473569-04,31,10,10,,A | NY/R2/10 | | pH<2 |
| 12 | V05241220B12 | L2473569-05,31,10,10,,A | NY/R2/10 | | pH<2 |
| 13 | V05241220B13 | L2473569-06,31,10,10,,A | NY/R2/10 | | pH<2 |
| 14 | V05241220B14 | L2473569-07,31,10,10,,A | NY/R2/10 | TB | pH<2 |
| 15 | V05241220B15 | L2473569-01MS,31,10,10,,A1 | NY/R2/10 | | pH<2 |
| 16 | V05241220B16 | L2473569-01MSD,31,10,10,,A2 | NY/R2/10 | | pH<2 |
| 17 | V05241220B17 | L2473805-01,31,10,10,,A | 8260NH/PCEBREAK | | pH<2 |
| 18 | V05241220B18 | L2473805-02,31,10,10,,A | 8260NH/PCEBREAK | TB | pH<2 |
| 19 | V05241220B19 | L2473802-03,31,10,10,,A | 8260NH/PCEBREAK | TB | pH<2 |
| 20 | V05241220B20 | L2473802-01D,31,1.0,10,,A | 8260NH/PCEBREAK | | pH<2 |
| 21 | V05241220B21 | L2473802-02D,31,1.0,10,,A | 8260NH/PCEBREAK | | pH<2 |
| 22 | V05241220B22 | L2474329-01,31,10,10,,A | NYCURVE | | pH<2 |
| 23 | V05241220B23 | L2474329-02,31,10,10,,A | NYCURVE | | pH<2 |
| 24 | V05241220B24 | L2473798-01,31,10,10,,A | 8260NH | | pH<2 |
| 25 | V05241220B25 | L2473798-02,31,10,10,,A | 8260NH | | pH<2 |
| 26 | V05241220B26 | L2473798-03,31,10,10,,A | 8260NH | TB | pH<2 |
| 27 | V05241220B27 | L2473940-01D,31,0.01,10,,A | PA/BTEX,NAPH | | pH<2 |
| 28 | V05241220B28 | L2473940-02D,31,0.004,10,,A | PA/BTEX,NAPH | | pH<2 |
| 29 | V05241220B29 | HSTD | | | |
| 30 | V05241220B30 | BLK | | | |
| 31 | V05241220B31 | BLK | | | |

Method

Inst: VOA101 BFB: V10847 GC: 8260

Initials: PID IS/SS: V10849 Autosampler: 8260water

Date: **12/21/24** ICAL: V10829C,V10856 Concentrator: 8260water

Run: **A**

QC: ______ Seq: ______

| Vial | DATA FILE | SAMPLE | | | | |
|---|---|---|---|---|---|---|
| 1 | V01241221ABF1 | BFB TUNE | 04:53 | | | |
| 1 | V01241221A01 | 8260 CCAL | LCS | | | |
| 2 | V01241221A02 | 8260 CCAL | LCSD | | | |
| 3 | V01241221A03 | 8260 CCAL | | | | |
| 4 | V01241221A04 | BLK | | | | |
| 5 | V01241221A05 | METHOD BLK | | | | |
| 6 | V01241221A06 | L2474285-01,31,10,10,,A | | NYTCL | | pH<2 |
| 7 | V01241221A07 | L2474285-02,31,10,10,,A | | NYTCL | | pH<2 |
| 8 | V01241221A08 | L2474285-03,31,10,10,,A | | NYTCL | | pH<2 |
| 9 | V01241221A09 | L2474285-04,31,10,10,,A | | NYTCL | | pH<2 |
| 10 | V01241221A10 | L2474285-05,31,10,10,,A | | NYTCL | | pH<2 |
| 11 | V01241221A11 | L2474285-06,31,10,10,,A | | NYTCL | | pH<2 |
| 12 | V01241221A12 | L2474285-07,31,10,10,,A | | NYTCL | | pH<2 |
| 13 | V01241221A13 | L2474239-01,31,10,10,,A | | NYTCL | | pH<2 |
| 14 | V01241221A14 | L2474239-02,31,10,10,,A | | NYTCL | | pH<2 |
| 15 | V01241221A15 | L2474239-03,31,10,10,,A | | NYTCL | | pH<2 |
| 16 | V01241221A16 | L2474239-04,31,10,10,,A | | NYTCL | | pH<2 |
| 17 | V01241221A17 | L2474239-05,31,10,10,,A | | NYTCL | | pH<2 |
| 18 | V01241221A18 | L2474156-01,31,10,10,,A | | NYTCL | | pH<2 |
| 19 | V01241221A19 | L2474329-03,31,10,10,,A | | NYCURVE | | pH<2 |
| 20 | V01241221A20 | L2474329-04,31,10,10,,A | | NYCURVE | | pH<2 |
| 21 | V01241221A21 | L2474329-05,31,10,10,,A | | NYCURVE | | pH<2 |
| 22 | V01241221A22 | L2474329-06,31,10,10,,A | | NYCURVE | TB | pH<2 |
| 23 | V01241221A23 | L2474666-07,31,10,10,,A | | NYTCL | FB | pH<2 |
| 24 | V01241221A24 | L2474702-01,31,10,10,,A | | NYTCL | | pH<2 |
| 25 | V01241221A25 | L2474392-01,31,10,10,,A | | NYCURVE | | pH<2 |
| 26 | V01241221A26 | DSTD | | | | |

Page 1 of 1

# 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: L2474329**
**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-4S (L2474329-01) | 48 | 34 | 71 | 63 | 82 | 79 | 0 |
| MW-4D2 (L2474329-02) | 44 | 31 | 68 | 64 | 70 | 73 | 0 |
| MW-12S (L2474329-03) | 49 | 34 | 70 | 65 | 82 | 77 | 0 |
| MW-12D (L2474329-04) | 49 | 36 | 75 | 70 | 76 | 75 | 0 |
| EB-12162024 (L2474329-05) | 49 | 35 | 70 | 63 | 72 | 72 | 0 |
| WG2012045-1BLANK | 48 | 33 | 72 | 68 | 79 | 76 | 0 |
| WG2012045-2LCS | 51 | 36 | 79 | 70 | 92 | 73 | 0 |
| WG2012045-3LCSD | 56 | 43 | 81 | 70 | 91 | 77 | 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** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Matrix (Level)** | : WATER (LOW) | | |
| **LCS Sample ID** | : WG2012045-2 Analysis Date : 12/21/24 10:26 | **File ID** | : 012045-2 |
| **LCSD Sample ID** | : WG2012045-3 Analysis Date : 12/21/24 10:48 | **File ID** | : 012045-3 |

| Parameter | Laboratory Control Sample True (ug/l) | Found (ug/l) | %R | | Laboratory Control Duplicate True (ug/l) | Found (ug/l) | %R | RPD | Recovery Limits | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| 3,3'-Dichlorobenzidine | 20 | 16. | 80 | | 20 | 16. | 81 | 1 | 40-140 | 30 |
| 2,4-Dinitrotoluene | 20 | 17. | 85 | | 20 | 17. | 87 | 2 | 48-143 | 30 |
| 2,6-Dinitrotoluene | 20 | 16. | 81 | | 20 | 17. | 84 | 4 | 40-140 | 30 |
| 4-Chlorophenyl phenyl ether | 20 | 15. | 73 | | 20 | 15. | 74 | 1 | 40-140 | 30 |
| 4-Bromophenyl phenyl ether | 20 | 16. | 79 | | 20 | 16. | 83 | 5 | 40-140 | 30 |
| Bis(2-chloroisopropyl)ether | 20 | 14. | 68 | | 20 | 15. | 73 | 7 | 40-140 | 30 |
| Bis(2-chloroethoxy)methane | 20 | 14. | 72 | | 20 | 16. | 80 | 11 | 40-140 | 30 |
| Hexachlorocyclopentadiene | 20 | 7.8 | 39 | Q | 20 | 8.3 | 41 | 5 | 40-140 | 30 |
| Isophorone | 20 | 15. | 74 | | 20 | 16. | 78 | 5 | 40-140 | 30 |
| Nitrobenzene | 20 | 14. | 70 | | 20 | 16. | 79 | 12 | 40-140 | 30 |
| NDPA/DPA | 20 | 15. | 75 | | 20 | 16. | 78 | 4 | 40-140 | 30 |
| n-Nitrosodi-n-propylamine | 20 | 15. | 76 | | 20 | 16. | 80 | 5 | 29-132 | 30 |
| Bis(2-ethylhexyl)phthalate | 20 | 17. | 86 | | 20 | 19. | 97 | 12 | 40-140 | 30 |
| Butyl benzyl phthalate | 20 | 18. | 88 | | 20 | 19. | 96 | 9 | 40-140 | 30 |
| Di-n-butylphthalate | 20 | 17. | 84 | | 20 | 17. | 86 | 2 | 40-140 | 30 |
| Di-n-octylphthalate | 20 | 17. | 85 | | 20 | 19. | 97 | 13 | 40-140 | 30 |
| Diethyl phthalate | 20 | 16. | 80 | | 20 | 16. | 82 | 2 | 40-140 | 30 |
| Dimethyl phthalate | 20 | 16. | 82 | | 20 | 16. | 83 | 1 | 40-140 | 30 |
| Biphenyl | 20 | 17. | 85 | | 20 | 18. | 88 | 3 | 40-140 | 30 |
| 4-Chloroaniline | 20 | 14. | 73 | | 20 | 12. | 58 | 23 | 40-140 | 30 |
| 2-Nitroaniline | 20 | 17. | 86 | | 20 | 18. | 90 | 5 | 52-143 | 30 |
| 3-Nitroaniline | 20 | 16. | 82 | | 20 | 17. | 86 | 5 | 25-145 | 30 |
| 4-Nitroaniline | 20 | 18. | 89 | | 20 | 19. | 96 | 8 | 51-143 | 30 |
| Dibenzofuran | 20 | 14. | 72 | | 20 | 15. | 76 | 5 | 40-140 | 30 |
| 1,2,4,5-Tetrachlorobenzene | 20 | 16. | 79 | | 20 | 16. | 81 | 3 | 2-134 | 30 |
| Acetophenone | 20 | 19. | 96 | | 20 | 20. | 99 | 3 | 39-129 | 30 |

# Laboratory Control Sample Summary
# Form 3
# Semivolatiles

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Matrix (Level) | : WATER (LOW) | | |
| LCS Sample ID | : WG2012045-2 Analysis Date : 12/21/24 10:26 | File ID | : 012045-2 |
| LCSD Sample ID | : WG2012045-3 Analysis Date : 12/21/24 10:48 | File ID | : 012045-3 |

| | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Parameter | True (ug/l) | Found (ug/l) | %R | True (ug/l) | Found (ug/l) | %R | RPD | Recovery Limits | RPD Limit |
| 2,4,6-Trichlorophenol | 20 | 16. | 82 | 20 | 16. | 81 | 1 | 30-130 | 30 |
| p-Chloro-m-cresol | 20 | 16. | 81 | 20 | 16. | 82 | 1 | 23-97 | 30 |
| 2-Chlorophenol | 20 | 14. | 70 | 20 | 15. | 74 | 6 | 27-123 | 30 |
| 2,4-Dichlorophenol | 20 | 16. | 78 | 20 | 16. | 80 | 3 | 30-130 | 30 |
| 2,4-Dimethylphenol | 20 | 10. | 51 | 20 | 11. | 57 | 11 | 30-130 | 30 |
| 2-Nitrophenol | 20 | 15. | 76 | 20 | 16. | 81 | 6 | 30-130 | 30 |
| 4-Nitrophenol | 20 | 13. | 65 | 20 | 14. | 70 | 7 | 10-80 | 30 |
| 2,4-Dinitrophenol | 20 | 7.9 | 39 | 20 | 10. | 50 | 25 | 20-130 | 30 |
| 4,6-Dinitro-o-cresol | 20 | 14. | 70 | 20 | 15. | 76 | 8 | 20-164 | 30 |
| Phenol | 20 | 8.0 | 40 | 20 | 9.2 | 46 | 14 | 12-110 | 30 |
| 2-Methylphenol | 20 | 13. | 63 | 20 | 14. | 68 | 8 | 30-130 | 30 |
| 3-Methylphenol/4-Methylphenol | 20 | 13. | 65 | 20 | 14. | 72 | 10 | 30-130 | 30 |
| 2,4,5-Trichlorophenol | 20 | 17. | 84 | 20 | 18. | 88 | 5 | 30-130 | 30 |
| Carbazole | 20 | 16. | 79 | 20 | 16. | 81 | 3 | 55-144 | 30 |
| Atrazine | 20 | 22. | 111 | 20 | 23. | 116 | 4 | 40-140 | 30 |
| Benzaldehyde | 20 | 19. | 95 | 20 | 21. | 104 | 9 | 40-140 | 30 |
| Caprolactam | 20 | 6.8 | 34 | 20 | 6.8 | 34 | 0 | 10-130 | 30 |

# Method Blank Summary
# Form 4
# Semivolatiles

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab Sample ID | : WG2012045-1 | Lab File ID | : 012045-1 |
| Instrument ID | : DAKOTA | Extraction Date | : 12/20/24 |
| Matrix | : WATER | Analysis Date | : 12/21/24 10:03 |
| Level | : LOW | | |

| Client Sample No. | Lab Sample ID | Analysis Date |
|---|---|---|
| WG2012045-2LCS | WG2012045-2 | 12/21/24 10:26 |
| WG2012045-3LCSD | WG2012045-3 | 12/21/24 10:48 |
| MW-4S | L2474329-01 | 12/21/24 14:11 |
| MW-4D2 | L2474329-02 | 12/21/24 14:33 |
| MW-12S | L2474329-03 | 12/21/24 14:56 |
| MW-12D | L2474329-04 | 12/21/24 15:19 |
| EB-12162024 | L2474329-05 | 12/21/24 15:41 |

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

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Instrument ID** | : DAKOTA | **Analysis Date** | : 11/05/24 16:36 |
| **Tune Standard** | : R1897417-31 | **Tune File ID** | : Tune1_tune |

| m/e | Ion Abundance Criteria | %Relative Abundance |
|---|---|---|
| 51 | 10.0 - 80.0% of Base Peak | 34.4 |
| 68 | Less than 2.0% of mass 69 | 0 (0 )1 |
| 69 | | 100 |
| 70 | Less than 2.0% of mass 69 | 0.2 (.6 )1 |
| 127 | 10.0 - 80.0% of Base Peak | 45.2 |
| 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 | 6.5 |
| 275 | 10.0 - 60.0% of Base Peak | 27.8 |
| 365 | Greater than 1.0% of mass 198 | 3.3 |
| 441 | Present, but less than 24% of mass 442 | 17.4 |
| 442 | Base Peak, or >50% of mass 198 | 80.8 |
| 443 | 15.0 - 24.0% of mass 442 | 15.9 (19.7)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 |
|---|---|---|---|
| ABNL9 | R1897417-9 | ABNL9 | 11/05/24 16:59 |
| ABNL8 | R1897417-8 | ABNL8 | 11/05/24 17:23 |
| ABNL7 | R1897417-7 | ABNL7 | 11/05/24 17:46 |
| ABNL6 | R1897417-6 | ABNL6 | 11/05/24 18:09 |
| ABNL5 | R1897417-5 | ABNL5 | 11/05/24 18:33 |
| ABNL4 | R1897417-4 | ABNL4 | 11/05/24 18:56 |
| ABNL3 | R1897417-3 | ABNL3 | 11/05/24 19:19 |
| ABNL2 | R1897417-2 | ABNL2 | 11/05/24 19:42 |
| ABNL1 | R1897417-1 | ABNL1 | 11/05/24 20:06 |
| AP9L9 | R1897417-27 | AP9L9 | 11/05/24 20:29 |
| AP9L8 | R1897417-26 | AP9L8 | 11/05/24 20:53 |
| AP9L7 | R1897417-25 | AP9L7 | 11/05/24 21:16 |
| AP9L6 | R1897417-24 | AP9L6 | 11/05/24 21:39 |
| AP9L5 | R1897417-23 | AP9L5 | 11/05/24 22:03 |
| AP9L4 | R1897417-22 | AP9L4 | 11/05/24 22:26 |
| AP9L3 | R1897417-21 | AP9L3 | 11/05/24 22:49 |
| AP9L2 | R1897417-20 | AP9L2 | 11/05/24 23:13 |
| AP9L1 | R1897417-19 | AP9L1 | 11/05/24 23:36 |
| ABN ICV Quant Report | R1897417-28 | ABNICV | 11/05/24 23:59 |
| AP9 ICV Quant Report | R1897417-30 | AP9ICV | 11/06/24 00:23 |

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

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : DAKOTA | Analysis Date | : 11/06/24 00:46 |
| Tune Standard | : R1897417-32 | Tune File ID | : Tune2_tune |

| m/e | Ion Abundance Criteria | %Relative Abundance |
|---|---|---|
| 51 | 10.0 - 80.0% of Base Peak | 35.4 |
| 68 | Less than 2.0% of mass 69 | 0 (0 )1 |
| 69 | | 100 |
| 70 | Less than 2.0% of mass 69 | 0.2 (.6 )1 |
| 127 | 10.0 - 80.0% of Base Peak | 45.9 |
| 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 | 6.6 |
| 275 | 10.0 - 60.0% of Base Peak | 27.4 |
| 365 | Greater than 1.0% of mass 198 | 3.3 |
| 441 | Present, but less than 24% of mass 442 | 17.8 |
| 442 | Base Peak, or >50% of mass 198 | 78.8 |
| 443 | 15.0 - 24.0% of mass 442 | 15.6 (19.8)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 |
|---|---|---|---|
| ADPL9 | R1897417-18 | ADPL9 | 11/06/24 01:10 |
| ADPL8 | R1897417-17 | ADPL8 | 11/06/24 01:33 |
| ADPL7 | R1897417-16 | ADPL7 | 11/06/24 01:56 |
| ADPL6 | R1897417-15 | ADPL6 | 11/06/24 02:20 |
| ADPL5 | R1897417-14 | ADPL5 | 11/06/24 02:43 |
| ADPL4 | R1897417-13 | ADPL4 | 11/06/24 03:07 |
| ADPL3 | R1897417-12 | ADPL3 | 11/06/24 03:30 |
| ADPL2 | R1897417-10 | ADPL2 | 11/06/24 03:53 |
| ADPL1 | R1897417-11 | ADPL1 | 11/06/24 04:17 |
| ADP ICV Quant Report | R1897417-29 | ADPICV | 11/06/24 04:40 |

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

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : DAKOTA | Analysis Date | : 12/21/24 06:04 |
| Tune Standard | : WG2012119-1 | Tune File ID | : DEG1221_tune |

| m/e | Ion Abundance Criteria | %Relative Abundance |
|---|---|---|
| 51 | 10.0 - 80.0% of Base Peak | 39.5 |
| 68 | Less than 2.0% of mass 69 | 0 (0 )1 |
| 69 | | 100 |
| 70 | Less than 2.0% of mass 69 | 0.2 (.4 )1 |
| 127 | 10.0 - 80.0% of Base Peak | 48.7 |
| 197 | Less than 2.0% of mass 198 | 0.3 |
| 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 | 26.5 |
| 365 | Greater than 1.0% of mass 198 | 3.5 |
| 441 | Present, but less than 24% of mass 442 | 18.1 |
| 442 | Base Peak, or >50% of mass 198 | 80.4 |
| 443 | 15.0 - 24.0% of mass 442 | 16.4 (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 |
|---|---|---|---|
| WG2012119-6TFACTOR-B | WG2012119-6 | DEG1221 | 12/21/24 06:04 |
| WG2012119-7TFACTOR-P | WG2012119-7 | DEG1221 | 12/21/24 06:04 |
| WG2012119-3CCAL | WG2012119-3 | ABN1221 | 12/21/24 06:27 |
| WG2012119-4CCAL | WG2012119-4 | AP91221 | 12/21/24 06:50 |
| WG2012119-5CCAL | WG2012119-5 | ADP1221 | 12/21/24 07:12 |
| WG2012045-1BLANK | WG2012045-1 | 012045-1 | 12/21/24 10:03 |
| WG2012045-2LCS | WG2012045-2 | 012045-2 | 12/21/24 10:26 |
| WG2012045-3LCSD | WG2012045-3 | 012045-3 | 12/21/24 10:48 |
| MW-4S | L2474329-01 | 74329-01 | 12/21/24 14:11 |
| MW-4D2 | L2474329-02 | 74329-02 | 12/21/24 14:33 |
| MW-12S | L2474329-03 | 74329-03 | 12/21/24 14:56 |
| MW-12D | L2474329-04 | 74329-04 | 12/21/24 15:19 |
| EB-12162024 | L2474329-05 | 74329-05 | 12/21/24 15:41 |

# Internal Standard Area and RT Summary
# Form 8a
# Semivolatiles

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : DAKOTA | Analysis Date | : 12/21/24 06:27:00 |
| Sample No | : WG2012119-3 | Lab File ID | : ABN1221 |

| | 1,4-Dichlorobenzene-d4 | | Naphthalene-d8 | | Acenaphthene-d10 | |
|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT |
| WG2012119-3 | 22385 | 3.63 | 89532 | 4.89 | 62636 | 6.57 |
| Upper Limit | 44770 | 4.13 | 179064 | 5.39 | 125272 | 7.07 |
| Lower Limit | 11193 | 3.13 | 44766 | 4.39 | 31318 | 6.07 |
| Sample ID | | | | | | |
| WG2012119-4 CCAL | 23078 | 3.63 | 89152 | 4.89 | 59962 | 6.57 |
| WG2012119-5 CCAL | 21890 | 3.63 | - | - | 55641 | 6.57 |
| WG2012045-1 BLANK | 23069 | 3.63 | 82861 | 4.89 | 57023 | 6.57 |
| WG2012045-2 LCS | 22754 | 3.63 | 84430 | 4.89 | 57763 | 6.57 |
| WG2012045-3 LCSD | 22550 | 3.63 | 85883 | 4.89 | 57991 | 6.57 |
| MW-4S | 20799 | 3.63 | 80407 | 4.89 | 54761 | 6.57 |
| MW-4D2 | 20980 | 3.63 | 76882 | 4.89 | 52750 | 6.57 |
| MW-12S | 21928 | 3.63 | 83510 | 4.89 | 56968 | 6.57 |
| MW-12D | 20561 | 3.63 | 81217 | 4.89 | 54007 | 6.57 |
| EB-12162024 | 22670 | 3.63 | 84449 | 4.89 | 57092 | 6.57 |

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

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

* Values outside of QC limits

# Internal Standard Area and RT Summary
# Form 8a
# Semivolatiles

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : DAKOTA | Analysis Date | : 12/21/24 06:27:00 |
| Sample No | : WG2012119-3 | Lab File ID | : ABN1221 |

| | Phenanthrene-d10 | | Chrysene-d12 | | Perylene-d12 | |
|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT |
| WG2012119-3 | 138966 | 7.96 | 162401 | 10.47 | 195179 | 11.81 |
| Upper Limit | 277932 | 8.46 | 324802 | 10.97 | 390358 | 12.31 |
| Lower Limit | 69483 | 7.46 | 81201 | 9.97 | 97590 | 11.31 |
| Sample ID | | | | | | |
| WG2012119-4 CCAL | 140332 | 7.96 | - | - | - | - |
| WG2012119-5 CCAL | 132823 | 7.96 | - | - | - | - |
| WG2012045-1 BLANK | 134511 | 7.96 | 155986 | 10.46 | 183803 | 11.81 |
| WG2012045-2 LCS | 132994 | 7.96 | 151896 | 10.47 | 187187 | 11.81 |
| WG2012045-3 LCSD | 135425 | 7.96 | 157212 | 10.47 | 194101 | 11.81 |
| MW-4S | 125313 | 7.96 | 151498 | 10.46 | 184745 | 11.81 |
| MW-4D2 | 123735 | 7.96 | 148336 | 10.46 | 179727 | 11.81 |
| MW-12S | 132743 | 7.96 | 156874 | 10.46 | 193581 | 11.81 |
| MW-12D | 126240 | 7.96 | 151432 | 10.47 | 182882 | 11.81 |
| EB-12162024 | 133367 | 7.96 | 161631 | 10.46 | 191763 | 11.81 |

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

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

* Values outside of QC limits

**Date Created:** 03/07/23
**Created By:** Jason Hebert
**File:** PM14021-1
**Page:** 1

**ABN Extractables - EPA 8270E (WATER)**

**Holding Time:** 7 days
**Container/Sample Preservation:** 2 - Amber 1000ml unpreserved

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Surrogate Criteria | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 83-32-9 | 2 | 1.06 | ug/l | 37-111 | 30 | 37-111 | 30 | 30 | | | |
| Benzidine | 92-87-5 | 20 | 8.14 | ug/l | 10-75 | 30 | 10-75 | 30 | 30 | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 5 | 0.581 | ug/l | 39-98 | 30 | 39-98 | 30 | 30 | | | |
| Hexachlorobenzene | 118-74-1 | 2 | 0.69 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Bis(2-chloroethyl)ether | 111-44-4 | 2 | 0.884 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| 2-Chloronaphthalene | 91-58-7 | 2 | 0.538 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| 1,2-Dichlorobenzene | 95-50-1 | 2 | 0.636 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| 1,3-Dichlorobenzene | 541-73-1 | 2 | 0.642 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| 1,4-Dichlorobenzene | 106-46-7 | 2 | 0.463 | ug/l | 36-97 | 30 | 36-97 | 30 | 30 | | | |
| 3,3'-Dichlorobenzidine | 91-94-1 | 5 | 0.854 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| 2,4-Dinitrotoluene | 121-14-2 | 5 | 0.382 | ug/l | 48-143 | 30 | 48-143 | 30 | 30 | | | |
| 2,6-Dinitrotoluene | 606-20-2 | 5 | 0.368 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Azobenzene | 122-66-7 | 2 | 0.81 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Fluoranthene | 206-44-0 | 2 | 0.653 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | 2 | 0.795 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| 4-Bromophenyl phenyl ether | 101-55-3 | 2 | 0.632 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Bis(2-chloroisopropyl)ether | 108-60-1 | 2 | 1.75 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Bis(2-chloroethoxy)methane | 111-91-1 | 5 | 1.49 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Hexachlorobutadiene | 87-68-3 | 2 | 0.6 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Hexachlorocyclopentadiene | 77-47-4 | 20 | 0.606 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Hexachloroethane | 67-72-1 | 2 | 0.44 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Isophorone | 78-59-1 | 5 | 0.657 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Naphthalene | 91-20-3 | 2 | 0.669 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Nitrobenzene | 98-95-3 | 2 | 0.656 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | 86-30-6 | 2 | 0.65 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| n-Nitrosodi-n-propylamine | 621-64-7 | 5 | 0.771 | ug/l | 29-132 | 30 | 29-132 | 30 | 30 | | | |
| Bis(2-Ethylhexyl)phthalate | 117-81-7 | 3 | 1.51 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Butyl benzyl phthalate | 85-68-7 | 5 | 2.18 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Di-n-butylphthalate | 84-74-2 | 5 | 0.58 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Di-n-octylphthalate | 117-84-0 | 5 | 2.39 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Diethyl phthalate | 84-66-2 | 5 | 4.3 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Dimethyl phthalate | 131-11-3 | 5 | 4.44 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Benzo(a)anthracene | 56-55-3 | 2 | 0.767 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Benzo(a)pyrene | 50-32-8 | 2 | 0.447 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Benzo(b)fluoranthene | 205-99-2 | 2 | 0.814 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Benzo(k)fluoranthene | 207-08-9 | 2 | 0.816 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Chrysene | 218-01-9 | 2 | 0.828 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Acenaphthylene | 208-96-8 | 2 | 0.59 | ug/l | 45-123 | 30 | 45-123 | 30 | 30 | | | |
| Anthracene | 120-12-7 | 2 | 0.79 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Benzo(ghi)perylene | 191-24-2 | 2 | 0.77 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Fluorene | 86-73-7 | 2 | 1.05 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Phenanthrene | 85-01-8 | 2 | 0.992 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |

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

**Date Created:** 03/07/23
**Created By:** Jason Hebert
**File:** PM14021-1
**Page:** 2

**ABN Extractables - EPA 8270E (WATER)**

**Holding Time:** 7 days
**Container/Sample Preservation:** 2 - Amber 1000ml unpreserved

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Surrogate Criteria | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dibenzo(a,h)anthracene | 53-70-3 | 2 | 0.452 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Indeno(1,2,3-cd)Pyrene | 193-39-5 | 2 | 0.943 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Pyrene | 129-00-0 | 2 | 0.704 | ug/l | 26-127 | 30 | 26-127 | 30 | 30 | | | |
| Biphenyl | 92-52-4 | 2 | 0.635 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| Aniline | 62-53-3 | 2 | 0.482 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| 4-Chloroaniline | 106-47-8 | 5 | 0.647 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| 1-Methylnaphthalene | 90-12-0 | 2 | 0.595 | ug/l | 41-103 | 30 | 41-103 | 30 | 30 | | | |
| 2-Nitroaniline | 88-74-4 | 5 | 0.519 | ug/l | 52-143 | 30 | 52-143 | 30 | 30 | | | |
| 3-Nitroaniline | 99-09-2 | 5 | 0.574 | ug/l | 25-145 | 30 | 25-145 | 30 | 30 | | | |
| 4-Nitroaniline | 100-01-6 | 5 | 0.581 | ug/l | 51-143 | 30 | 51-143 | 30 | 30 | | | |
| Dibenzofuran | 132-64-9 | 2 | 0.823 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| 2-Methylnaphthalene | 91-57-6 | 2 | 0.677 | ug/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| n-Nitrosodimethylamine | 62-75-9 | 2 | 0.524 | ug/l | 22-74 | 30 | 22-74 | 30 | 30 | | | |
| 2,4,6-Trichlorophenol | 88-06-2 | 5 | 0.494 | ug/l | 30-130 | 30 | 30-130 | 30 | 30 | | | |
| P-Chloro-M-Cresol | 59-50-7 | 2 | 0.406 | ug/l | 23-97 | 30 | 23-97 | 30 | 30 | | | |
| 2-Chlorophenol | 95-57-8 | 2 | 0.405 | ug/l | 27-123 | 30 | 27-123 | 30 | 30 | | | |
| 2,4-Dichlorophenol | 120-83-2 | 5 | 0.527 | ug/l | 30-130 | 30 | 30-130 | 30 | 30 | | | |
| 2,4-Dimethylphenol | 105-67-9 | 5 | 1.1 | ug/l | 30-130 | 30 | 30-130 | 30 | 30 | | | |
| 2-Nitrophenol | 88-75-5 | 10 | 0.463 | ug/l | 30-130 | 30 | 30-130 | 30 | 30 | | | |
| 4-Nitrophenol | 100-02-7 | 10 | 1.14 | ug/l | 10-80 | 30 | 10-80 | 30 | 30 | | | |
| 2,4-Dinitrophenol | 51-28-5 | 20 | 3.55 | ug/l | 20-130 | 30 | 20-130 | 30 | 30 | | | |
| 4,6-Dinitro-o-cresol | 534-52-1 | 10 | 5.42 | ug/l | 20-164 | 30 | 20-164 | 30 | 30 | | | |
| Pentachlorophenol | 87-86-5 | 10 | 1.95 | ug/l | 9-103 | 30 | 9-103 | 30 | 30 | | | |
| Phenol | 108-95-2 | 5 | 1.3 | ug/l | 12-110 | 30 | 12-110 | 30 | 30 | | | |
| 2-Methylphenol | 95-48-7 | 5 | 1.1 | ug/l | 30-130 | 30 | 30-130 | 30 | 30 | | | |
| 3-Methylphenol/4-Methylphenol | 106-44-5 | 5 | 0.55 | ug/l | 30-130 | 30 | 30-130 | 30 | 30 | | | |
| 2,4,5-Trichlorophenol | 95-95-4 | 5 | 0.381 | ug/l | 30-130 | 30 | 30-130 | 30 | 30 | | | |
| Benzoic Acid | 65-85-0 | 50 | 12.9 | ug/l | 10-164 | 30 | 10-164 | 30 | 30 | | | |
| Benzyl Alcohol | 100-51-6 | 2 | 0.698 | ug/l | 26-116 | 30 | 26-116 | 30 | 30 | | | |
| Carbazole | 86-74-8 | 2 | 0.759 | ug/l | 55-144 | 30 | 55-144 | 30 | 30 | | | |
| Pyridine | 110-86-1 | 3.5 | 0.905 | ug/l | 10-66 | 30 | 10-66 | 30 | 30 | | | |
| *2-Fluorophenol* | *367-12-4* | | | | | | | | | *21-120* | | |
| *Phenol-d6* | *13127-88-3* | | | | | | | | | *10-120* | | |
| *Nitrobenzene-d5* | *4165-60-0* | | | | | | | | | *23-120* | | |
| *2-Fluorobiphenyl* | *321-60-8* | | | | | | | | | *15-120* | | |
| *2,4,6-Tribromophenol* | *118-79-6* | | | | | | | | | *10-120* | | |
| *4-Terphenyl-d14* | *1718-51-0* | | | | | | | | | *41-149* | | |
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***Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)***
***Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory***

**Date Created:** 03/07/23
**Created By:** Jason Hebert
**File:** PM14022-1
**Page:** 1

## ABN Extractables - EPA 8270E (SOIL)

**Holding Time:** 14 days
**Container/Sample Preservation:** 1 - Glass 250ml/8oz unpreserved

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Surrogate Criteria | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 83-32-9 | 133.6 | 17.3012 | ug/kg | 31-137 | 50 | 31-137 | 50 | 50 | | | |
| Benzidine | 92-87-5 | 551.1 | 181.028 | ug/kg | 10-66 | 50 | 10-66 | 50 | 50 | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 167 | 19.1048 | ug/kg | 38-107 | 50 | 38-107 | 50 | 50 | | | |
| Hexachlorobenzene | 118-74-1 | 100.2 | 18.704 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Bis(2-chloroethyl)ether | 111-44-4 | 150.3 | 22.6452 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| 2-Chloronaphthalene | 91-58-7 | 167 | 16.5664 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| 1,2-Dichlorobenzene | 95-50-1 | 167 | 29.9932 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| 1,3-Dichlorobenzene | 541-73-1 | 167 | 28.724 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| 1,4-Dichlorobenzene | 106-46-7 | 167 | 29.1582 | ug/kg | 28-104 | 50 | 28-104 | 50 | 50 | | | |
| 3,3'-Dichlorobenzidine | 91-94-1 | 167 | 44.422 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| 2,4-Dinitrotoluene | 121-14-2 | 167 | 33.4 | ug/kg | 40-132 | 50 | 40-132 | 50 | 50 | | | |
| 2,6-Dinitrotoluene | 606-20-2 | 167 | 28.6572 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Azobenzene | 122-66-7 | 167 | 16.032 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Fluoranthene | 206-44-0 | 100.2 | 19.1716 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | 167 | 17.869 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| 4-Bromophenyl phenyl ether | 101-55-3 | 167 | 25.4842 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Bis(2-chloroisopropyl)ether | 108-60-1 | 200.4 | 28.5236 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Bis(2-chloroethoxy)methane | 111-91-1 | 180.36 | 16.7334 | ug/kg | 40-117 | 50 | 40-117 | 50 | 50 | | | |
| Hexachlorobutadiene | 87-68-3 | 167 | 24.4488 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Hexachlorocyclopentadiene | 77-47-4 | 477.62 | 151.302 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Hexachloroethane | 67-72-1 | 133.6 | 27.0206 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Isophorone | 78-59-1 | 150.3 | 21.6766 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Naphthalene | 91-20-3 | 167 | 20.3406 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Nitrobenzene | 98-95-3 | 150.3 | 24.716 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | 86-30-6 | 133.6 | 19.0046 | ug/kg | 36-157 | 50 | 36-157 | 50 | 50 | | | |
| n-Nitrosodi-n-propylamine | 621-64-7 | 167 | 25.7848 | ug/kg | 32-121 | 50 | 32-121 | 50 | 50 | | | |
| Bis(2-Ethylhexyl)phthalate | 117-81-7 | 167 | 57.782 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Butyl benzyl phthalate | 85-68-7 | 167 | 42.084 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Di-n-butylphthalate | 84-74-2 | 167 | 31.6632 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Di-n-octylphthalate | 117-84-0 | 167 | 56.78 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Diethyl phthalate | 84-66-2 | 167 | 15.4642 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Dimethyl phthalate | 131-11-3 | 167 | 35.07 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Benzo(a)anthracene | 56-55-3 | 100.2 | 18.8042 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Benzo(a)pyrene | 50-32-8 | 133.6 | 40.748 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Benzo(b)fluoranthene | 205-99-2 | 100.2 | 28.1228 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Benzo(k)fluoranthene | 207-08-9 | 100.2 | 26.72 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Chrysene | 218-01-9 | 100.2 | 17.368 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Acenaphthylene | 208-96-8 | 133.6 | 25.7848 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Anthracene | 120-12-7 | 100.2 | 32.565 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Benzo(ghi)perylene | 191-24-2 | 133.6 | 19.6392 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Fluorene | 86-73-7 | 167 | 16.2324 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Phenanthrene | 85-01-8 | 100.2 | 20.3072 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |

*Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)*
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**Date Created:** 03/07/23
**Created By:** Jason Hebert
**File:** PM14022-1
**Page:** 2

**ABN Extractables - EPA 8270E (SOIL)**

**Holding Time:** 14 days
**Container/Sample Preservation:** 1 - Glass 250ml/8oz unpreserved

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Surrogate Criteria | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dibenzo(a,h)anthracene | 53-70-3 | 100.2 | 19.3052 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Indeno(1,2,3-cd)Pyrene | 193-39-5 | 133.6 | 23.2798 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Pyrene | 129-00-0 | 100.2 | 16.5998 | ug/kg | 35-142 | 50 | 35-142 | 50 | 50 | | | |
| Biphenyl | 92-52-4 | 380.76 | 21.71 | ug/kg | 37-127 | 50 | 37-127 | 50 | 50 | | | |
| Aniline | 62-53-3 | 200.4 | 78.824 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| 4-Chloroaniline | 106-47-8 | 167 | 30.394 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| 1-Methylnaphthalene | 90-12-0 | 167 | 19.372 | ug/kg | 26-130 | 50 | 26-130 | 50 | 50 | | | |
| 2-Nitroaniline | 88-74-4 | 167 | 32.1976 | ug/kg | 47-134 | 50 | 47-134 | 50 | 50 | | | |
| 3-Nitroaniline | 99-09-2 | 167 | 31.4962 | ug/kg | 26-129 | 50 | 26-129 | 50 | 50 | | | |
| 4-Nitroaniline | 100-01-6 | 167 | 69.138 | ug/kg | 41-125 | 50 | 41-125 | 50 | 50 | | | |
| Dibenzofuran | 132-64-9 | 167 | 15.7982 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| 2-Methylnaphthalene | 91-57-6 | 200.4 | 20.1736 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| n-Nitrosodimethylamine | 62-75-9 | 334 | 32.064 | ug/kg | 22-100 | 50 | 22-100 | 50 | 50 | | | |
| 2,4,6-Trichlorophenol | 88-06-2 | 100.2 | 31.6632 | ug/kg | 30-130 | 50 | 30-130 | 50 | 50 | | | |
| P-Chloro-M-Cresol | 59-50-7 | 167 | 24.883 | ug/kg | 26-103 | 50 | 26-103 | 50 | 50 | | | |
| 2-Chlorophenol | 95-57-8 | 167 | 19.7394 | ug/kg | 25-102 | 50 | 25-102 | 50 | 50 | | | |
| 2,4-Dichlorophenol | 120-83-2 | 150.3 | 26.8536 | ug/kg | 30-130 | 50 | 30-130 | 50 | 50 | | | |
| 2,4-Dimethylphenol | 105-67-9 | 167 | 55.11 | ug/kg | 30-130 | 50 | 30-130 | 50 | 50 | | | |
| 2-Nitrophenol | 88-75-5 | 360.72 | 62.792 | ug/kg | 30-130 | 50 | 30-130 | 50 | 50 | | | |
| 4-Nitrophenol | 100-02-7 | 233.8 | 68.136 | ug/kg | 11-114 | 50 | 11-114 | 50 | 50 | | | |
| 2,4-Dinitrophenol | 51-28-5 | 801.6 | 77.822 | ug/kg | 4-130 | 50 | 4-130 | 50 | 50 | | | |
| 4,6-Dinitro-o-cresol | 534-52-1 | 434.2 | 80.16 | ug/kg | 10-130 | 50 | 10-130 | 50 | 50 | | | |
| Pentachlorophenol | 87-86-5 | 133.6 | 36.74 | ug/kg | 17-109 | 50 | 17-109 | 50 | 50 | | | |
| Phenol | 108-95-2 | 167 | 25.217 | ug/kg | 26-90 | 50 | 26-90 | 50 | 50 | | | |
| 2-Methylphenol | 95-48-7 | 167 | 25.885 | ug/kg | 30-130. | 50 | 30-130. | 50 | 50 | | | |
| 3-Methylphenol/4-Methylphenol | 106-44-5 | 240.48 | 26.1522 | ug/kg | 30-130 | 50 | 30-130 | 50 | 50 | | | |
| 2,4,5-Trichlorophenol | 95-95-4 | 167 | 31.9972 | ug/kg | 30-130 | 50 | 30-130 | 50 | 50 | | | |
| Benzoic Acid | 65-85-0 | 541.08 | 169.004 | ug/kg | 10-110 | 50 | 10-110 | 50 | 50 | | | |
| Benzyl Alcohol | 100-51-6 | 167 | 51.102 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Carbazole | 86-74-8 | 167 | 16.2324 | ug/kg | 54-128 | 50 | 54-128 | 50 | 50 | | | |
| Pyridine | 110-86-1 | 180.36 | 63.46 | ug/kg | 10-93 | 50 | 10-93 | 50 | 50 | | | |
| *2-Fluorophenol* | *367-12-4* | | | | | | | | | *25-120* | | |
| *Phenol-d6* | *13127-88-3* | | | | | | | | | *10-120* | | |
| *Nitrobenzene-d5* | *4165-60-0* | | | | | | | | | *23-120* | | |
| *2-Fluorobiphenyl* | *321-60-8* | | | | | | | | | *30-120* | | |
| *2,4,6-Tribromophenol* | *118-79-6* | | | | | | | | | *10-136* | | |
| *4-Terphenyl-d14* | *1718-51-0* | | | | | | | | | *18-120* | | |
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***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***

# Semivolatile Sample Data

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-01 | Date Collected | : 12/16/24 11:00 |
| Client ID | : MW-4S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 14:11 |
| Sample Matrix | : WATER | Date Extracted | : 12/20/24 |
| Analytical Method | : 1,8270E | Dilution Factor | : 1 |
| Lab File ID | : 74329-01 | Analyst | : SMZ |
| Sample Amount | : 100 ml | Instrument ID | : DAKOTA |
| Extraction Method | : EPA 3510C | GC Column | : RTX5-MS |
| Extract Volume | : 1000 uL | %Solids | : N/A |
| GPC Cleanup | : N | Injection Volume | : 1 uL |

| | | ug/L | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 5.0 | 1.8 | U |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 5.0 | 0.54 | U |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 5.0 | 0.84 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 2.0 | 0.39 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 2.0 | 0.24 | U |
| 108-60-1 | Bis(2-chloroisopropyl)ether | ND | 2.0 | 0.40 | U |
| 111-91-1 | Bis(2-chloroethoxy)methane | ND | 5.0 | 0.84 | U |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 20 | 1.2 | U |
| 78-59-1 | Isophorone | ND | 5.0 | 0.86 | U |
| 98-95-3 | Nitrobenzene | ND | 2.0 | 0.20 | U |
| 86-30-6 | NDPA/DPA | ND | 2.0 | 0.92 | U |
| 621-64-7 | n-Nitrosodi-n-propylamine | ND | 5.0 | 0.91 | U |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | ND | 3.0 | 1.4 | U |
| 85-68-7 | Butyl benzyl phthalate | ND | 5.0 | 2.6 | U |
| 84-74-2 | Di-n-butylphthalate | ND | 5.0 | 0.96 | U |
| 117-84-0 | Di-n-octylphthalate | ND | 5.0 | 2.3 | U |
| 84-66-2 | Diethyl phthalate | ND | 5.0 | 0.76 | U |
| 131-11-3 | Dimethyl phthalate | ND | 5.0 | 0.92 | U |
| 92-52-4 | Biphenyl | ND | 2.0 | 0.20 | U |
| 106-47-8 | 4-Chloroaniline | ND | 5.0 | 0.47 | U |
| 88-74-4 | 2-Nitroaniline | ND | 5.0 | 1.0 | U |
| 99-09-2 | 3-Nitroaniline | ND | 5.0 | 1.2 | U |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS

| | | | | | |
|---|---|---|---|---|---|
| Client | : | Roux Env. Eng. & Geology, DPC | Lab Number | : | L2474329 |
| Project Name | : | CORAM MATERIALS | Project Number | : | 2232.0006Y005 |
| Lab ID | : | L2474329-01 | Date Collected | : | 12/16/24 11:00 |
| Client ID | : | MW-4S | Date Received | : | 12/17/24 |
| Sample Location | : | 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : | 12/21/24 14:11 |
| Sample Matrix | : | WATER | Date Extracted | : | 12/20/24 |
| Analytical Method | : | 1,8270E | Dilution Factor | : | 1 |
| Lab File ID | : | 74329-01 | Analyst | : | SMZ |
| Sample Amount | : | 100 ml | Instrument ID | : | DAKOTA |
| Extraction Method | : | EPA 3510C | GC Column | : | RTX5-MS |
| Extract Volume | : | 1000 uL | %Solids | : | N/A |
| GPC Cleanup | : | N | Injection Volume | : | 1 uL |

| | | ug/L | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 100-01-6 | 4-Nitroaniline | ND | 5.0 | 1.4 | U |
| 132-64-9 | Dibenzofuran | ND | 2.0 | 0.40 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 10 | 0.24 | U |
| 98-86-2 | Acetophenone | ND | 5.0 | 0.92 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 5.0 | 2.1 | U |
| 59-50-7 | p-Chloro-m-cresol | ND | 2.0 | 0.61 | U |
| 95-57-8 | 2-Chlorophenol | ND | 2.0 | 0.65 | U |
| 120-83-2 | 2,4-Dichlorophenol | ND | 5.0 | 1.7 | U |
| 105-67-9 | 2,4-Dimethylphenol | ND | 5.0 | 2.0 | U |
| 88-75-5 | 2-Nitrophenol | ND | 10 | 2.0 | U |
| 100-02-7 | 4-Nitrophenol | ND | 10 | 1.4 | U |
| 51-28-5 | 2,4-Dinitrophenol | ND | 20 | 5.4 | U |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 10 | 2.3 | U |
| 108-95-2 | Phenol | 5.5 | 5.0 | 0.35 | |
| 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 | 3.0 | 10 | 1.2 | J |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-02 | Date Collected | : 12/16/24 11:50 |
| Client ID | : MW-4D2 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 14:33 |
| Sample Matrix | : WATER | Date Extracted | : 12/20/24 |
| Analytical Method | : 1,8270E | Dilution Factor | : 1 |
| Lab File ID | : 74329-02 | Analyst | : SMZ |
| Sample Amount | : 100 ml | Instrument ID | : DAKOTA |
| Extraction Method | : EPA 3510C | GC Column | : RTX5-MS |
| Extract Volume | : 1000 uL | %Solids | : N/A |
| GPC Cleanup | : N | Injection Volume | : 1 uL |

| | | ug/L | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 5.0 | 1.8 | U |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 5.0 | 0.54 | U |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 5.0 | 0.84 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 2.0 | 0.39 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 2.0 | 0.24 | U |
| 108-60-1 | Bis(2-chloroisopropyl)ether | ND | 2.0 | 0.40 | U |
| 111-91-1 | Bis(2-chloroethoxy)methane | ND | 5.0 | 0.84 | U |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 20 | 1.2 | U |
| 78-59-1 | Isophorone | ND | 5.0 | 0.86 | U |
| 98-95-3 | Nitrobenzene | ND | 2.0 | 0.20 | U |
| 86-30-6 | NDPA/DPA | ND | 2.0 | 0.92 | U |
| 621-64-7 | n-Nitrosodi-n-propylamine | ND | 5.0 | 0.91 | U |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | ND | 3.0 | 1.4 | U |
| 85-68-7 | Butyl benzyl phthalate | ND | 5.0 | 2.6 | U |
| 84-74-2 | Di-n-butylphthalate | ND | 5.0 | 0.96 | U |
| 117-84-0 | Di-n-octylphthalate | ND | 5.0 | 2.3 | U |
| 84-66-2 | Diethyl phthalate | ND | 5.0 | 0.76 | U |
| 131-11-3 | Dimethyl phthalate | ND | 5.0 | 0.92 | U |
| 92-52-4 | Biphenyl | ND | 2.0 | 0.20 | U |
| 106-47-8 | 4-Chloroaniline | ND | 5.0 | 0.47 | U |
| 88-74-4 | 2-Nitroaniline | ND | 5.0 | 1.0 | U |
| 99-09-2 | 3-Nitroaniline | ND | 5.0 | 1.2 | U |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-02 | Date Collected | : 12/16/24 11:50 |
| Client ID | : MW-4D2 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 14:33 |
| Sample Matrix | : WATER | Date Extracted | : 12/20/24 |
| Analytical Method | : 1,8270E | Dilution Factor | : 1 |
| Lab File ID | : 74329-02 | Analyst | : SMZ |
| Sample Amount | : 100 ml | Instrument ID | : DAKOTA |
| Extraction Method | : EPA 3510C | GC Column | : RTX5-MS |
| Extract Volume | : 1000 uL | %Solids | : N/A |
| GPC Cleanup | : N | Injection Volume | : 1 uL |

| | | ug/L | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 100-01-6 | 4-Nitroaniline | ND | 5.0 | 1.4 | U |
| 132-64-9 | Dibenzofuran | ND | 2.0 | 0.40 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 10 | 0.24 | U |
| 98-86-2 | Acetophenone | ND | 5.0 | 0.92 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 5.0 | 2.1 | U |
| 59-50-7 | p-Chloro-m-cresol | ND | 2.0 | 0.61 | U |
| 95-57-8 | 2-Chlorophenol | ND | 2.0 | 0.65 | U |
| 120-83-2 | 2,4-Dichlorophenol | ND | 5.0 | 1.7 | U |
| 105-67-9 | 2,4-Dimethylphenol | ND | 5.0 | 2.0 | U |
| 88-75-5 | 2-Nitrophenol | ND | 10 | 2.0 | U |
| 100-02-7 | 4-Nitrophenol | ND | 10 | 1.4 | U |
| 51-28-5 | 2,4-Dinitrophenol | ND | 20 | 5.4 | U |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 10 | 2.3 | U |
| 108-95-2 | Phenol | 1.4 | 5.0 | 0.35 | J |
| 95-48-7 | 2-Methylphenol | ND | 5.0 | 2.3 | U |
| 108-39-4/106-44-5 | 3-Methylphenol/4-Methylphenol | ND | 5.0 | 1.4 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 5.0 | 2.1 | U |
| 86-74-8 | Carbazole | ND | 2.0 | 0.31 | U |
| 1912-24-9 | Atrazine | ND | 10 | 1.0 | U |
| 100-52-7 | Benzaldehyde | ND | 5.0 | 1.1 | U |
| 105-60-2 | Caprolactam | ND | 10 | 1.2 | U |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-03 | Date Collected | : 12/16/24 08:45 |
| Client ID | : MW-12S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 14:56 |
| Sample Matrix | : WATER | Date Extracted | : 12/20/24 |
| Analytical Method | : 1,8270E | Dilution Factor | : 1 |
| Lab File ID | : 74329-03 | Analyst | : SMZ |
| Sample Amount | : 100 ml | Instrument ID | : DAKOTA |
| Extraction Method | : EPA 3510C | GC Column | : RTX5-MS |
| Extract Volume | : 1000 uL | %Solids | : N/A |
| GPC Cleanup | : N | Injection Volume | : 1 uL |

| | | ug/L | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 5.0 | 1.8 | U |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 5.0 | 0.54 | U |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 5.0 | 0.84 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 2.0 | 0.39 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 2.0 | 0.24 | U |
| 108-60-1 | Bis(2-chloroisopropyl)ether | ND | 2.0 | 0.40 | U |
| 111-91-1 | Bis(2-chloroethoxy)methane | ND | 5.0 | 0.84 | U |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 20 | 1.2 | U |
| 78-59-1 | Isophorone | ND | 5.0 | 0.86 | U |
| 98-95-3 | Nitrobenzene | ND | 2.0 | 0.20 | U |
| 86-30-6 | NDPA/DPA | ND | 2.0 | 0.92 | U |
| 621-64-7 | n-Nitrosodi-n-propylamine | ND | 5.0 | 0.91 | U |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | ND | 3.0 | 1.4 | U |
| 85-68-7 | Butyl benzyl phthalate | ND | 5.0 | 2.6 | U |
| 84-74-2 | Di-n-butylphthalate | ND | 5.0 | 0.96 | U |
| 117-84-0 | Di-n-octylphthalate | ND | 5.0 | 2.3 | U |
| 84-66-2 | Diethyl phthalate | ND | 5.0 | 0.76 | U |
| 131-11-3 | Dimethyl phthalate | ND | 5.0 | 0.92 | U |
| 92-52-4 | Biphenyl | ND | 2.0 | 0.20 | U |
| 106-47-8 | 4-Chloroaniline | ND | 5.0 | 0.47 | U |
| 88-74-4 | 2-Nitroaniline | ND | 5.0 | 1.0 | U |
| 99-09-2 | 3-Nitroaniline | ND | 5.0 | 1.2 | U |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-03 | Date Collected | : 12/16/24 08:45 |
| Client ID | : MW-12S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 14:56 |
| Sample Matrix | : WATER | Date Extracted | : 12/20/24 |
| Analytical Method | : 1,8270E | Dilution Factor | : 1 |
| Lab File ID | : 74329-03 | Analyst | : SMZ |
| Sample Amount | : 100 ml | Instrument ID | : DAKOTA |
| Extraction Method | : EPA 3510C | GC Column | : RTX5-MS |
| Extract Volume | : 1000 uL | %Solids | : N/A |
| GPC Cleanup | : N | Injection Volume | : 1 uL |

| | | ug/L | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 100-01-6 | 4-Nitroaniline | ND | 5.0 | 1.4 | U |
| 132-64-9 | Dibenzofuran | ND | 2.0 | 0.40 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 10 | 0.24 | U |
| 98-86-2 | Acetophenone | ND | 5.0 | 0.92 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 5.0 | 2.1 | U |
| 59-50-7 | p-Chloro-m-cresol | ND | 2.0 | 0.61 | U |
| 95-57-8 | 2-Chlorophenol | ND | 2.0 | 0.65 | U |
| 120-83-2 | 2,4-Dichlorophenol | ND | 5.0 | 1.7 | U |
| 105-67-9 | 2,4-Dimethylphenol | ND | 5.0 | 2.0 | U |
| 88-75-5 | 2-Nitrophenol | ND | 10 | 2.0 | U |
| 100-02-7 | 4-Nitrophenol | ND | 10 | 1.4 | U |
| 51-28-5 | 2,4-Dinitrophenol | ND | 20 | 5.4 | U |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 10 | 2.3 | U |
| 108-95-2 | Phenol | ND | 5.0 | 0.35 | U |
| 95-48-7 | 2-Methylphenol | ND | 5.0 | 2.3 | U |
| 108-39-4/106-44-5 | 3-Methylphenol/4-Methylphenol | ND | 5.0 | 1.4 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 5.0 | 2.1 | U |
| 86-74-8 | Carbazole | ND | 2.0 | 0.31 | U |
| 1912-24-9 | Atrazine | ND | 10 | 1.0 | U |
| 100-52-7 | Benzaldehyde | ND | 5.0 | 1.1 | U |
| 105-60-2 | Caprolactam | ND | 10 | 1.2 | U |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-04 | Date Collected | : 12/16/24 09:33 |
| Client ID | : MW-12D | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 15:19 |
| Sample Matrix | : WATER | Date Extracted | : 12/20/24 |
| Analytical Method | : 1,8270E | Dilution Factor | : 1 |
| Lab File ID | : 74329-04 | Analyst | : SMZ |
| Sample Amount | : 100 ml | Instrument ID | : DAKOTA |
| Extraction Method | : EPA 3510C | GC Column | : RTX5-MS |
| Extract Volume | : 1000 uL | %Solids | : N/A |
| GPC Cleanup | : N | Injection Volume | : 1 uL |

| | | ug/L | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 5.0 | 1.8 | U |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 5.0 | 0.54 | U |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 5.0 | 0.84 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 2.0 | 0.39 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 2.0 | 0.24 | U |
| 108-60-1 | Bis(2-chloroisopropyl)ether | ND | 2.0 | 0.40 | U |
| 111-91-1 | Bis(2-chloroethoxy)methane | ND | 5.0 | 0.84 | U |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 20 | 1.2 | U |
| 78-59-1 | Isophorone | ND | 5.0 | 0.86 | U |
| 98-95-3 | Nitrobenzene | ND | 2.0 | 0.20 | U |
| 86-30-6 | NDPA/DPA | ND | 2.0 | 0.92 | U |
| 621-64-7 | n-Nitrosodi-n-propylamine | ND | 5.0 | 0.91 | U |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | ND | 3.0 | 1.4 | U |
| 85-68-7 | Butyl benzyl phthalate | ND | 5.0 | 2.6 | U |
| 84-74-2 | Di-n-butylphthalate | ND | 5.0 | 0.96 | U |
| 117-84-0 | Di-n-octylphthalate | ND | 5.0 | 2.3 | U |
| 84-66-2 | Diethyl phthalate | ND | 5.0 | 0.76 | U |
| 131-11-3 | Dimethyl phthalate | ND | 5.0 | 0.92 | U |
| 92-52-4 | Biphenyl | ND | 2.0 | 0.20 | U |
| 106-47-8 | 4-Chloroaniline | ND | 5.0 | 0.47 | U |
| 88-74-4 | 2-Nitroaniline | ND | 5.0 | 1.0 | U |
| 99-09-2 | 3-Nitroaniline | ND | 5.0 | 1.2 | U |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-04 | Date Collected | : 12/16/24 09:33 |
| Client ID | : MW-12D | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 15:19 |
| Sample Matrix | : WATER | Date Extracted | : 12/20/24 |
| Analytical Method | : 1,8270E | Dilution Factor | : 1 |
| Lab File ID | : 74329-04 | Analyst | : SMZ |
| Sample Amount | : 100 ml | Instrument ID | : DAKOTA |
| Extraction Method | : EPA 3510C | GC Column | : RTX5-MS |
| Extract Volume | : 1000 uL | %Solids | : N/A |
| GPC Cleanup | : N | Injection Volume | : 1 uL |

| CAS NO. | Parameter | ug/L Results | ug/L RL | ug/L MDL | Qualifier |
|---|---|---|---|---|---|
| 100-01-6 | 4-Nitroaniline | ND | 5.0 | 1.4 | U |
| 132-64-9 | Dibenzofuran | ND | 2.0 | 0.40 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 10 | 0.24 | U |
| 98-86-2 | Acetophenone | ND | 5.0 | 0.92 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 5.0 | 2.1 | U |
| 59-50-7 | p-Chloro-m-cresol | ND | 2.0 | 0.61 | U |
| 95-57-8 | 2-Chlorophenol | ND | 2.0 | 0.65 | U |
| 120-83-2 | 2,4-Dichlorophenol | ND | 5.0 | 1.7 | U |
| 105-67-9 | 2,4-Dimethylphenol | ND | 5.0 | 2.0 | U |
| 88-75-5 | 2-Nitrophenol | ND | 10 | 2.0 | U |
| 100-02-7 | 4-Nitrophenol | ND | 10 | 1.4 | U |
| 51-28-5 | 2,4-Dinitrophenol | ND | 20 | 5.4 | U |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 10 | 2.3 | U |
| 108-95-2 | Phenol | 1.4 | 5.0 | 0.35 | J |
| 95-48-7 | 2-Methylphenol | ND | 5.0 | 2.3 | U |
| 108-39-4/106-44-5 | 3-Methylphenol/4-Methylphenol | ND | 5.0 | 1.4 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 5.0 | 2.1 | U |
| 86-74-8 | Carbazole | ND | 2.0 | 0.31 | U |
| 1912-24-9 | Atrazine | ND | 10 | 1.0 | U |
| 100-52-7 | Benzaldehyde | ND | 5.0 | 1.1 | U |
| 105-60-2 | Caprolactam | ND | 10 | 1.2 | U |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-05 | Date Collected | : 12/16/24 12:00 |
| Client ID | : EB-12162024 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 15:41 |
| Sample Matrix | : Equipment Blank | Date Extracted | : 12/20/24 |
| Analytical Method | : 1,8270E | Dilution Factor | : 1 |
| Lab File ID | : 74329-05 | Analyst | : SMZ |
| Sample Amount | : 100 ml | Instrument ID | : DAKOTA |
| Extraction Method | : EPA 3510C | GC Column | : RTX5-MS |
| Extract Volume | : 1000 uL | %Solids | : N/A |
| GPC Cleanup | : N | Injection Volume | : 1 uL |

| CAS NO. | Parameter | ug/L Results | ug/L RL | ug/L MDL | Qualifier |
|---|---|---|---|---|---|
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 5.0 | 1.8 | U |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 5.0 | 0.54 | U |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 5.0 | 0.84 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 2.0 | 0.39 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 2.0 | 0.24 | U |
| 108-60-1 | Bis(2-chloroisopropyl)ether | ND | 2.0 | 0.40 | U |
| 111-91-1 | Bis(2-chloroethoxy)methane | ND | 5.0 | 0.84 | U |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 20 | 1.2 | U |
| 78-59-1 | Isophorone | ND | 5.0 | 0.86 | U |
| 98-95-3 | Nitrobenzene | ND | 2.0 | 0.20 | U |
| 86-30-6 | NDPA/DPA | ND | 2.0 | 0.92 | U |
| 621-64-7 | n-Nitrosodi-n-propylamine | ND | 5.0 | 0.91 | U |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | ND | 3.0 | 1.4 | U |
| 85-68-7 | Butyl benzyl phthalate | ND | 5.0 | 2.6 | U |
| 84-74-2 | Di-n-butylphthalate | ND | 5.0 | 0.96 | U |
| 117-84-0 | Di-n-octylphthalate | ND | 5.0 | 2.3 | U |
| 84-66-2 | Diethyl phthalate | ND | 5.0 | 0.76 | U |
| 131-11-3 | Dimethyl phthalate | ND | 5.0 | 0.92 | U |
| 92-52-4 | Biphenyl | ND | 2.0 | 0.20 | U |
| 106-47-8 | 4-Chloroaniline | ND | 5.0 | 0.47 | U |
| 88-74-4 | 2-Nitroaniline | ND | 5.0 | 1.0 | U |
| 99-09-2 | 3-Nitroaniline | ND | 5.0 | 1.2 | U |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-05 | Date Collected | : 12/16/24 12:00 |
| Client ID | : EB-12162024 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 15:41 |
| Sample Matrix | : Equipment Blank | Date Extracted | : 12/20/24 |
| Analytical Method | : 1,8270E | Dilution Factor | : 1 |
| Lab File ID | : 74329-05 | Analyst | : SMZ |
| Sample Amount | : 100 ml | Instrument ID | : DAKOTA |
| Extraction Method | : EPA 3510C | GC Column | : RTX5-MS |
| Extract Volume | : 1000 uL | %Solids | : N/A |
| GPC Cleanup | : N | Injection Volume | : 1 uL |

| CAS NO. | Parameter | Results (ug/L) | RL (ug/L) | MDL (ug/L) | Qualifier |
|---|---|---|---|---|---|
| 100-01-6 | 4-Nitroaniline | ND | 5.0 | 1.4 | U |
| 132-64-9 | Dibenzofuran | ND | 2.0 | 0.40 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 10 | 0.24 | U |
| 98-86-2 | Acetophenone | ND | 5.0 | 0.92 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 5.0 | 2.1 | U |
| 59-50-7 | p-Chloro-m-cresol | ND | 2.0 | 0.61 | U |
| 95-57-8 | 2-Chlorophenol | ND | 2.0 | 0.65 | U |
| 120-83-2 | 2,4-Dichlorophenol | ND | 5.0 | 1.7 | U |
| 105-67-9 | 2,4-Dimethylphenol | ND | 5.0 | 2.0 | U |
| 88-75-5 | 2-Nitrophenol | ND | 10 | 2.0 | U |
| 100-02-7 | 4-Nitrophenol | ND | 10 | 1.4 | U |
| 51-28-5 | 2,4-Dinitrophenol | ND | 20 | 5.4 | U |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 10 | 2.3 | U |
| 108-95-2 | Phenol | ND | 5.0 | 0.35 | U |
| 95-48-7 | 2-Methylphenol | ND | 5.0 | 2.3 | U |
| 108-39-4/106-44-5 | 3-Methylphenol/4-Methylphenol | ND | 5.0 | 1.4 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 5.0 | 2.1 | U |
| 86-74-8 | Carbazole | ND | 2.0 | 0.31 | U |
| 1912-24-9 | Atrazine | ND | 10 | 1.0 | U |
| 100-52-7 | Benzaldehyde | ND | 5.0 | 1.1 | U |
| 105-60-2 | Caprolactam | ND | 10 | 1.2 | U |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2012045-1 | Date Collected | : NA |
| Client ID | : WG2012045-1BLANK | Date Received | : NA |
| Sample Location | : | Date Analyzed | : 12/21/24 10:03 |
| Sample Matrix | : WATER | Date Extracted | : 12/20/24 |
| Analytical Method | : 1,8270E | Dilution Factor | : 1 |
| Lab File ID | : 012045-1 | Analyst | : SMZ |
| Sample Amount | : 100 ml | Instrument ID | : DAKOTA |
| Extraction Method | : EPA 3510C | GC Column | : RTX5-MS |
| Extract Volume | : 1000 uL | %Solids | : N/A |
| GPC Cleanup | : N | Injection Volume | : 1 uL |

| | | ug/L | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 5.0 | 1.8 | U |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 5.0 | 0.54 | U |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 5.0 | 0.84 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 2.0 | 0.39 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 2.0 | 0.24 | U |
| 108-60-1 | Bis(2-chloroisopropyl)ether | ND | 2.0 | 0.40 | U |
| 111-91-1 | Bis(2-chloroethoxy)methane | ND | 5.0 | 0.84 | U |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 20 | 1.2 | U |
| 78-59-1 | Isophorone | ND | 5.0 | 0.86 | U |
| 98-95-3 | Nitrobenzene | ND | 2.0 | 0.20 | U |
| 86-30-6 | NDPA/DPA | ND | 2.0 | 0.92 | U |
| 621-64-7 | n-Nitrosodi-n-propylamine | ND | 5.0 | 0.91 | U |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | ND | 3.0 | 1.4 | U |
| 85-68-7 | Butyl benzyl phthalate | ND | 5.0 | 2.6 | U |
| 84-74-2 | Di-n-butylphthalate | ND | 5.0 | 0.96 | U |
| 117-84-0 | Di-n-octylphthalate | ND | 5.0 | 2.3 | U |
| 84-66-2 | Diethyl phthalate | ND | 5.0 | 0.76 | U |
| 131-11-3 | Dimethyl phthalate | ND | 5.0 | 0.92 | U |
| 92-52-4 | Biphenyl | ND | 2.0 | 0.20 | U |
| 106-47-8 | 4-Chloroaniline | ND | 5.0 | 0.47 | U |
| 88-74-4 | 2-Nitroaniline | ND | 5.0 | 1.0 | U |
| 99-09-2 | 3-Nitroaniline | ND | 5.0 | 1.2 | U |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS

| | | | | | |
|---|---|---|---|---|---|
| Client | : | Roux Env. Eng. & Geology, DPC | Lab Number | : | L2474329 |
| Project Name | : | CORAM MATERIALS | Project Number | : | 2232.0006Y005 |
| Lab ID | : | WG2012045-1 | Date Collected | : | NA |
| Client ID | : | WG2012045-1BLANK | Date Received | : | NA |
| Sample Location | : | | Date Analyzed | : | 12/21/24 10:03 |
| Sample Matrix | : | WATER | Date Extracted | : | 12/20/24 |
| Analytical Method | : | 1,8270E | Dilution Factor | : | 1 |
| Lab File ID | : | 012045-1 | Analyst | : | SMZ |
| Sample Amount | : | 100 ml | Instrument ID | : | DAKOTA |
| Extraction Method | : | EPA 3510C | GC Column | : | RTX5-MS |
| Extract Volume | : | 1000 uL | %Solids | : | N/A |
| GPC Cleanup | : | N | Injection Volume | : | 1 uL |

| CAS NO. | Parameter | ug/L Results | RL | MDL | Qualifier |
|---|---|---|---|---|---|
| 100-01-6 | 4-Nitroaniline | ND | 5.0 | 1.4 | U |
| 132-64-9 | Dibenzofuran | ND | 2.0 | 0.40 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 10 | 0.24 | U |
| 98-86-2 | Acetophenone | ND | 5.0 | 0.92 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 5.0 | 2.1 | U |
| 59-50-7 | p-Chloro-m-cresol | ND | 2.0 | 0.61 | U |
| 95-57-8 | 2-Chlorophenol | ND | 2.0 | 0.65 | U |
| 120-83-2 | 2,4-Dichlorophenol | ND | 5.0 | 1.7 | U |
| 105-67-9 | 2,4-Dimethylphenol | ND | 5.0 | 2.0 | U |
| 88-75-5 | 2-Nitrophenol | ND | 10 | 2.0 | U |
| 100-02-7 | 4-Nitrophenol | ND | 10 | 1.4 | U |
| 51-28-5 | 2,4-Dinitrophenol | ND | 20 | 5.4 | U |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 10 | 2.3 | U |
| 108-95-2 | Phenol | ND | 5.0 | 0.35 | U |
| 95-48-7 | 2-Methylphenol | ND | 5.0 | 2.3 | U |
| 108-39-4/106-44-5 | 3-Methylphenol/4-Methylphenol | ND | 5.0 | 1.4 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 5.0 | 2.1 | U |
| 86-74-8 | Carbazole | ND | 2.0 | 0.31 | U |
| 1912-24-9 | Atrazine | ND | 10 | 1.0 | U |
| 100-52-7 | Benzaldehyde | ND | 5.0 | 1.1 | U |
| 105-60-2 | Caprolactam | ND | 10 | 1.2 | U |

Quantitation Report    (QT Reviewed)

```
Data Path : I:\8270\Dakota\241221RVT\
Data File : 74329-01.D
Acq On    : 21 Dec 2024   2:11 pm
Operator  : Dakota:smz
Sample    : L2474329-01,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 18   Sample Multiplier: 1

Quant Time: Dec 23 09:16:42 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
             : 2 - I:\8270\Dakota\241221RVT\ADP1221.D
             : 3 - I:\8270\Dakota\241221RVT\AP91221.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...   3.630  152     20799     4.000 ug/ml    0.00
   Standard Area 1 = 22385                 Recovery   =   92.91%
27) IS2_1,4-Dichlorobenzen...   3.630  152     20799     4.000 ug/ml    0.00
   Standard Area 3 = 23078                 Recovery   =   90.12%
37) IS1_Naphthalene-d8          4.889  136     80407     4.000 ug/ml  # 0.00
   Standard Area 1 = 89532                 Recovery   =   89.81%
57) IS2_Naphthalene-d8          4.889  136     80407     4.000 ug/ml  # 0.00
   Standard Area 3 = 89152                 Recovery   =   90.19%
65) IS1_Acenaphthene-d10        6.571  164     54761     4.000 ug/ml    0.00
   Standard Area 1 = 62636                 Recovery   =   87.43%
85) IS2_Acenaphthene-d10        6.571  164     54761     4.000 ug/ml    0.00
   Standard Area 3 = 59962                 Recovery   =   91.33%
88) IS3_Acenaphthene-d10        6.571  164     54761     4.000 ug/ml    0.00
   Standard Area 2 = 55641                 Recovery   =   98.42%
90) IS1_Phenanthrene-d10        7.960  188    125313     4.000 ug/ml    0.00
   Standard Area 1 = 138966                 Recovery   =   90.18%
102) IS3_Phenanthrene-d10        7.960  188    125313     4.000 ug/ml    0.00
   Standard Area 2 = 132823                 Recovery   =   94.35%
106) IS1_Chrysene-d12           10.462  240    151498     4.000 ug/ml    0.00
   Standard Area 1 = 162401                 Recovery   =   93.29%
115) IS1_Perylene-d12           11.811  264    184745     4.000 ug/ml    0.00
   Standard Area 1 = 195179                 Recovery   =   94.65%

 System Monitoring Compounds
 4) 2-Fluorophenol              2.216  112      5098     0.953 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   47.65%
 7) Phenol-d6                   3.360   99      4709     0.688 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   34.40%
19) Nitrobenzene-d5             4.208   82      4390     0.706 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   70.60%
48) 2-Fluorobiphenyl            5.974  172     12551     0.631 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   63.10%
81) 2,4,6-Tribromophenol        7.323  330      6429     1.642 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   82.10%
98) 4-Terphenyl-d14             9.529  244     28618     0.789 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   78.90%
```

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270\Dakota\241221RVT\
Data File : 74329-01.D
Acq On    : 21 Dec 2024   2:11 pm
Operator  : Dakota:smz
Sample    : L2474329-01,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 18   Sample Multiplier: 1

Quant Time: Dec 23 09:16:42 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
             : 2 - I:\8270\Dakota\241221RVT\ADP1221.D
             : 3 - I:\8270\Dakota\241221RVT\AP91221.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 | 3.369 | 94 | 4041 | 0.547 ug/ml | 96 |
| 14) Bis(2-chloroisopropyl)... | 0.000 | | 0 | N.D. 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 | 5.309 | 55 | 732 | 0.296 ug/ml# | 43 |
| 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\241221RVT\
Data File : 74329-01.D
Acq On    : 21 Dec 2024   2:11 pm
Operator  : Dakota:smz
Sample    : L2474329-01,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 18   Sample Multiplier: 1

Quant Time: Dec 23 09:16:42 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
             : 2 - I:\8270\Dakota\241221RVT\ADP1221.D
             : 3 - I:\8270\Dakota\241221RVT\AP91221.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. | |
| 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 | |

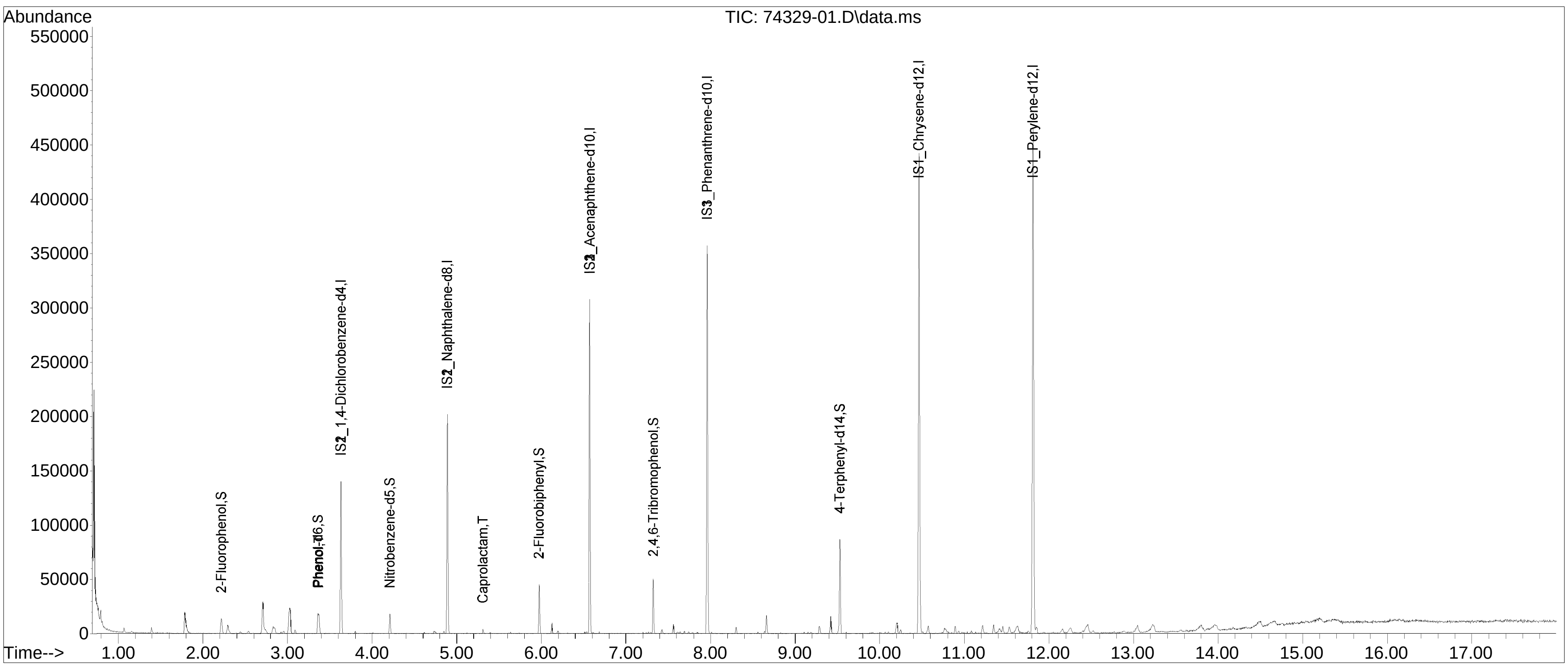
(#) = qualifier out of range (m) = manual integration (+) = signals summed

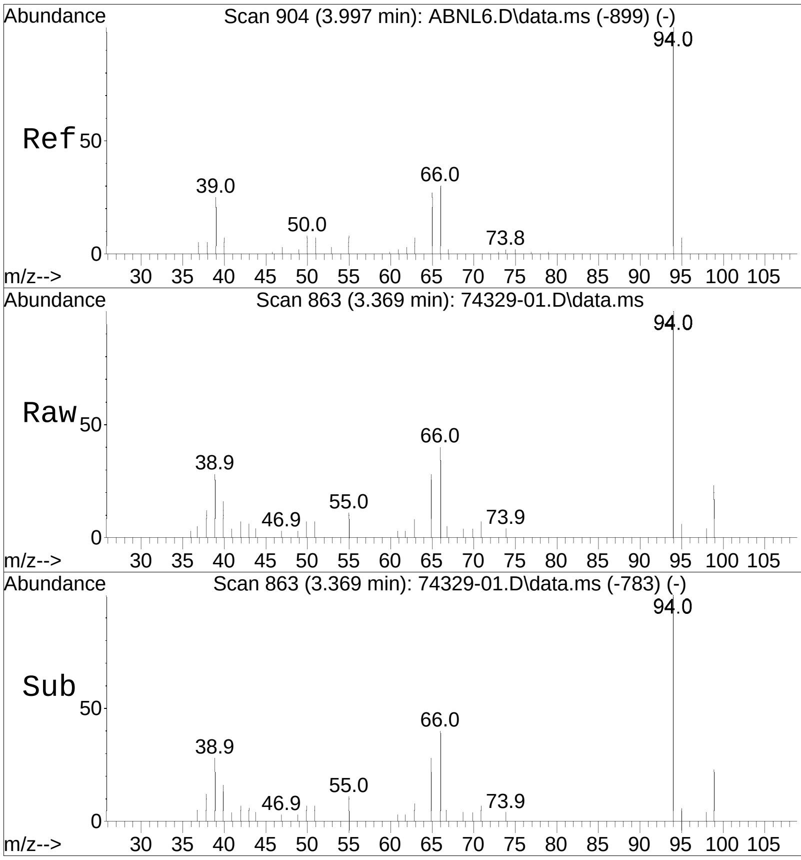
Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241221RVT\
Data File : 74329-01.D
Acq On    : 21 Dec 2024   2:11 pm
Operator  : Dakota:smz
Sample    : L2474329-01,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 18   Sample Multiplier: 1

Quant Time: Dec 23 09:16:42 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

Sub List     : 8270TCL_combo_REV1 - TCL/CT/MAP91221.D•

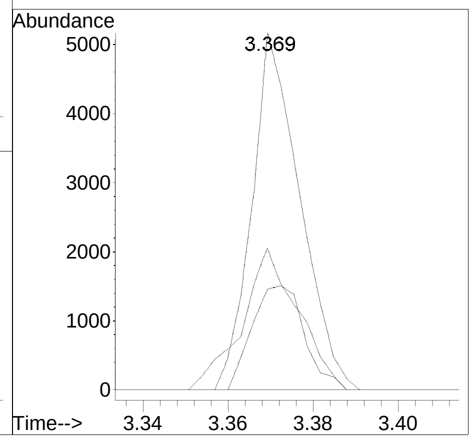


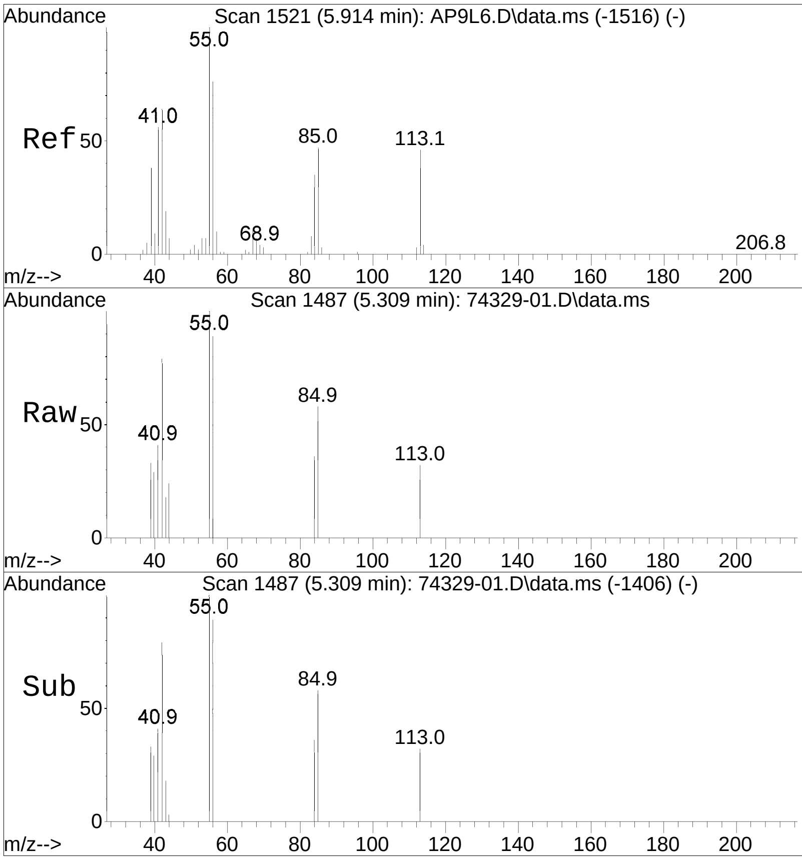



#8
Phenol
Concen: 0.55 ug/ml
RT: 3.369 min Scan# 863
Delta R.T. -0.000 min
Lab File: 74329-01.D
Acq: 21 Dec 2024 2:11 pm

Tgt Ion: 94 Resp: 4041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 31.8 | 26.0 | 39.0 |
| 66 | 46.2 | 33.8 | 50.8 |

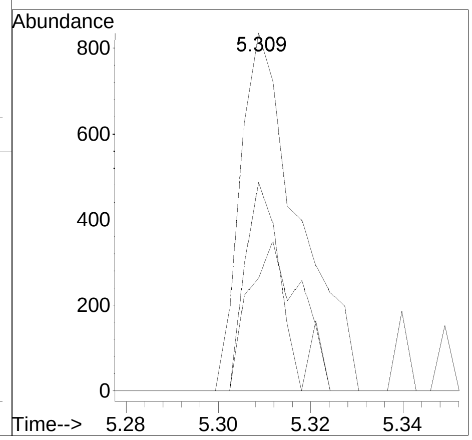





#62
Caprolactam
Concen: 0.30 ug/ml
RT: 5.309 min Scan# 1487
Delta R.T. 0.003 min
Lab File: 74329-01.D
Acq: 21 Dec 2024 2:11 pm

Tgt Ion: 55 Resp: 732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 55 | 100 | | |
| 85 | 0.0 | 19.8 | 29.6# |
| 113 | 0.0 | 29.6 | 44.4# |



Manual Integration Report

```
Data Path   : I:\8270\Dakota\241221RVT\ QMethod     : FS241105RVT_Dakota.m
Data File   : 74329-01.D                Operator    : Dakota:smz
Date Inj'd  : 12/21/2024  2:11 pm       Instrument  : Dakota
Sample      : L2474329-01,32,,gmr       Quant Date  : 12/21/2024  2:29 pm
```

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

Quantitation Report    (QT Reviewed)

```
Data Path : I:\8270\Dakota\241221RVT\
Data File : 74329-02.D
Acq On    : 21 Dec 2024   2:33 pm
Operator  : Dakota:smz
Sample    : L2474329-02,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 19   Sample Multiplier: 1

Quant Time: Dec 23 09:17:03 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
             : 2 - I:\8270\Dakota\241221RVT\ADP1221.D
             : 3 - I:\8270\Dakota\241221RVT\AP91221.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...   3.630  152     20980     4.000 ug/ml    0.00
   Standard Area 1 = 22385                Recovery   =   93.72%
27) IS2_1,4-Dichlorobenzen...   3.630  152     20980     4.000 ug/ml    0.00
   Standard Area 3 = 23078                Recovery   =   90.91%
37) IS1_Naphthalene-d8          4.889  136     76882     4.000 ug/ml    0.00
   Standard Area 1 = 89532                Recovery   =   85.87%
57) IS2_Naphthalene-d8          4.889  136     76882     4.000 ug/ml    0.00
   Standard Area 3 = 89152                Recovery   =   86.24%
65) IS1_Acenaphthene-d10        6.570  164     52750     4.000 ug/ml    0.00
   Standard Area 1 = 62636                Recovery   =   84.22%
85) IS2_Acenaphthene-d10        6.570  164     52750     4.000 ug/ml    0.00
   Standard Area 3 = 59962                Recovery   =   87.97%
88) IS3_Acenaphthene-d10        6.570  164     52750     4.000 ug/ml    0.00
   Standard Area 2 = 55641                Recovery   =   94.80%
90) IS1_Phenanthrene-d10        7.960  188    123735     4.000 ug/ml    0.00
   Standard Area 1 = 138966                Recovery   =   89.04%
102) IS3_Phenanthrene-d10        7.960  188    123735     4.000 ug/ml    0.00
   Standard Area 2 = 132823                Recovery   =   93.16%
106) IS1_Chrysene-d12           10.462  240    148336     4.000 ug/ml    0.00
   Standard Area 1 = 162401                Recovery   =   91.34%
115) IS1_Perylene-d12           11.811  264    179727     4.000 ug/ml    0.00
   Standard Area 1 = 195179                Recovery   =   92.08%

 System Monitoring Compounds
 4) 2-Fluorophenol              2.219  112      4752     0.881 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   44.05%
 7) Phenol-d6                   3.360   99      4228     0.612 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   30.60%
19) Nitrobenzene-d5             4.208   82      4258     0.679 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   67.90%
48) 2-Fluorobiphenyl            5.977  172     12190     0.641 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   64.10%
81) 2,4,6-Tribromophenol        7.323  330      5297     1.405 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   70.25%
98) 4-Terphenyl-d14             9.532  244     26058     0.728 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   72.80%
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241221RVT\
Data File : 74329-02.D
Acq On : 21 Dec 2024 2:33 pm
Operator : Dakota:smz
Sample : L2474329-02,32,,gmr
Misc : WG2012119,WG2012045,ical21680
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 23 09:17:03 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
: 2 - I:\8270\Dakota\241221RVT\ADP1221.D
: 3 - I:\8270\Dakota\241221RVT\AP91221.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 | 3.372 | 94 | 1009 | 0.135 ug/ml# | 37 |
| 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\241221RVT\
Data File : 74329-02.D
Acq On : 21 Dec 2024 2:33 pm
Operator : Dakota:smz
Sample : L2474329-02,32,,gmr
Misc : WG2012119,WG2012045,ical21680
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 23 09:17:03 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
: 2 - I:\8270\Dakota\241221RVT\ADP1221.D
: 3 - I:\8270\Dakota\241221RVT\AP91221.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. | |
| 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 | |

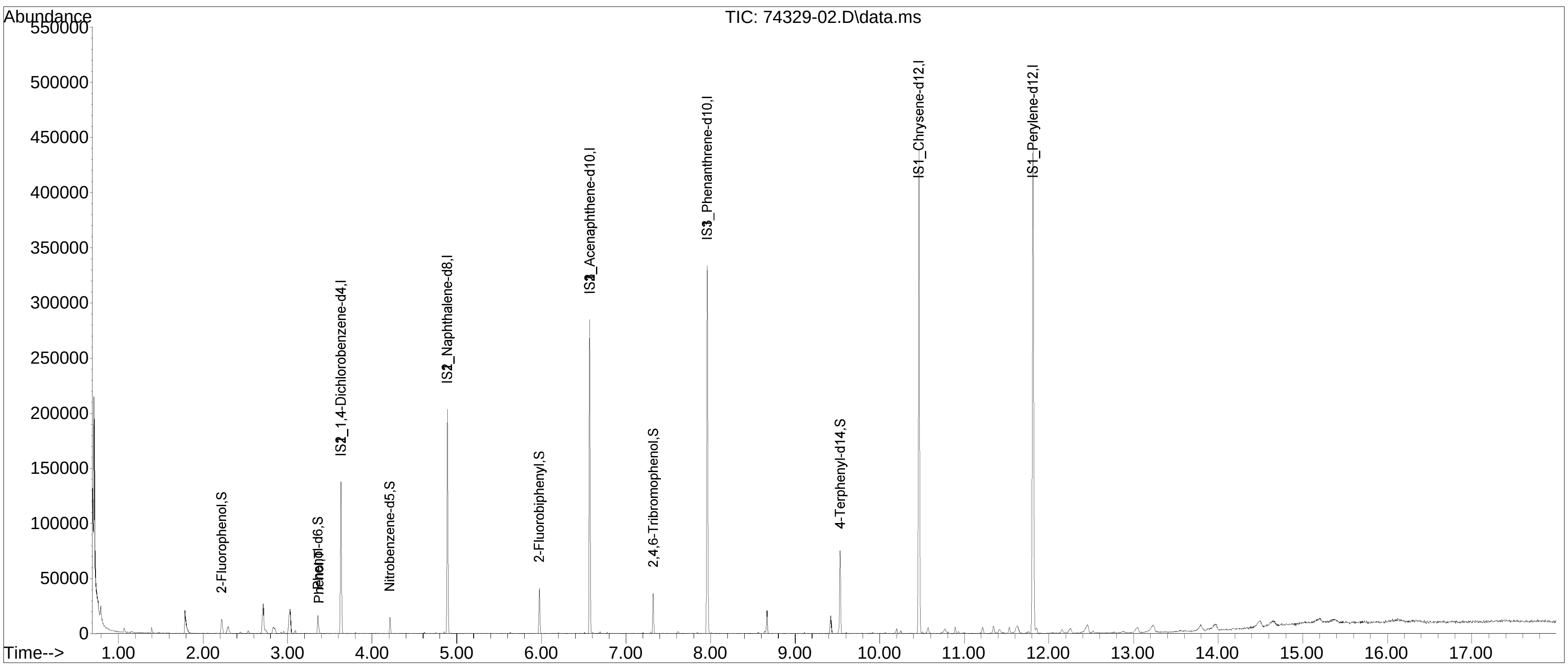
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

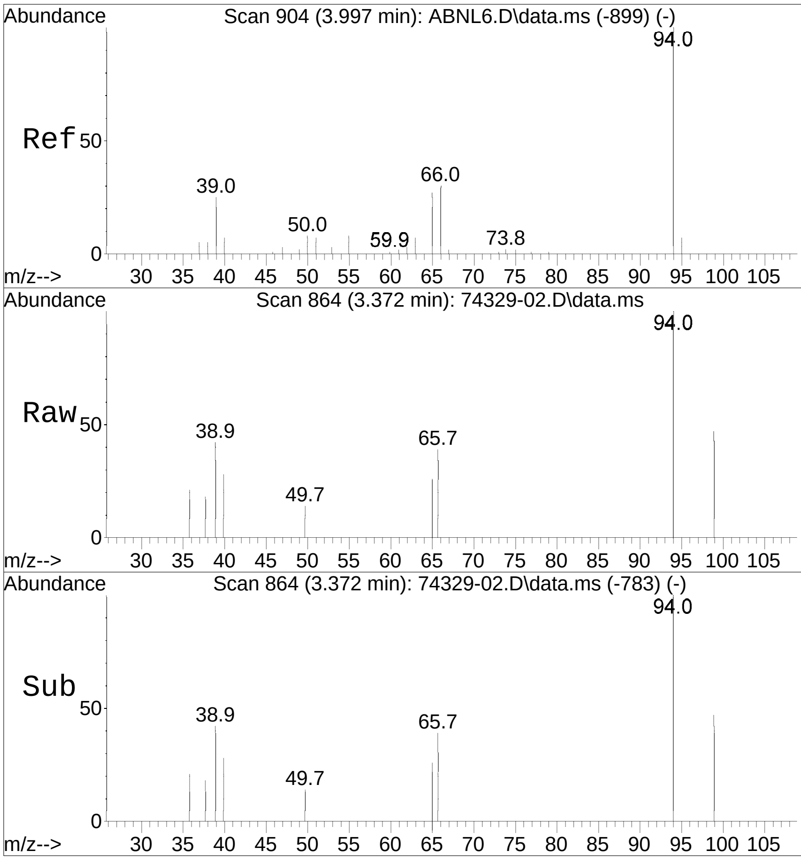
Data Path : I:\8270\Dakota\241221RVT\
Data File : 74329-02.D
Acq On    : 21 Dec 2024   2:33 pm
Operator  : Dakota:smz
Sample    : L2474329-02,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 19   Sample Multiplier: 1

Quant Time: Dec 23 09:17:03 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

Sub List     : 8270TCL_combo_REV1 - TCL/CT/MAP91221.D•



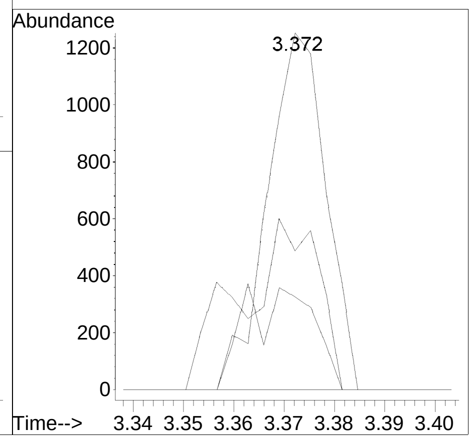

FS241105RVT_Dakota.m Mon Dec 23 09:23:25 2024    Page: 4




#8
Phenol
Concen: 0.14 ug/ml
RT: 3.372 min Scan# 864
Delta R.T. 0.003 min
Lab File: 74329-02.D
Acq: 21 Dec 2024 2:33 pm

Tgt Ion: 94 Resp: 1009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 0.0 | 26.0 | 39.0# |
| 66 | 0.0 | 33.8 | 50.8# |



Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : I:\8270\Dakota\241221RVT\ | QMethod | : FS241105RVT_Dakota.m |
| Data File | : 74329-02.D | Operator | : Dakota:smz |
| Date Inj'd | : 12/21/2024 2:33 pm | Instrument | : Dakota |
| Sample | : L2474329-02,32,,gmr | Quant Date | : 12/21/2024 2:52 pm |

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

Quantitation Report    (QT Reviewed)

```
Data Path : I:\8270\Dakota\241221RVT\
Data File : 74329-03.D
Acq On    : 21 Dec 2024   2:56 pm
Operator  : Dakota:smz
Sample    : L2474329-03,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 20   Sample Multiplier: 1

Quant Time: Dec 23 09:31:06 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
             : 2 - I:\8270\Dakota\241221RVT\ADP1221.D
             : 3 - I:\8270\Dakota\241221RVT\AP91221.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...   3.630  152     21928    4.000 ug/ml    0.00
   Standard Area 1 = 22385                 Recovery   =   97.96%
27) IS2_1,4-Dichlorobenzen...   3.630  152     21928    4.000 ug/ml    0.00
   Standard Area 3 = 23078                 Recovery   =   95.02%
37) IS1_Naphthalene-d8          4.889  136     83510    4.000 ug/ml  # 0.00
   Standard Area 1 = 89532                 Recovery   =   93.27%
57) IS2_Naphthalene-d8          4.889  136     83510    4.000 ug/ml  # 0.00
   Standard Area 3 = 89152                 Recovery   =   93.67%
65) IS1_Acenaphthene-d10        6.571  164     56968    4.000 ug/ml    0.00
   Standard Area 1 = 62636                 Recovery   =   90.95%
85) IS2_Acenaphthene-d10        6.571  164     56968    4.000 ug/ml    0.00
   Standard Area 3 = 59962                 Recovery   =   95.01%
88) IS3_Acenaphthene-d10        6.571  164     56968    4.000 ug/ml    0.00
   Standard Area 2 = 55641                 Recovery   =  102.38%
90) IS1_Phenanthrene-d10        7.960  188    132743    4.000 ug/ml    0.00
   Standard Area 1 = 138966                 Recovery   =   95.52%
102) IS3_Phenanthrene-d10       7.960  188    132743    4.000 ug/ml    0.00
   Standard Area 2 = 132823                 Recovery   =   99.94%
106) IS1_Chrysene-d12          10.462  240    156874    4.000 ug/ml    0.00
   Standard Area 1 = 162401                 Recovery   =   96.60%
115) IS1_Perylene-d12          11.814  264    193581    4.000 ug/ml    0.00
   Standard Area 1 = 195179                 Recovery   =   99.18%

 System Monitoring Compounds
 4) 2-Fluorophenol              2.216  112      5487    0.973 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   48.65%
 7) Phenol-d6                   3.360   99      4866    0.674 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   33.70%
19) Nitrobenzene-d5             4.208   82      4583    0.700 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   70.00%
48) 2-Fluorobiphenyl            5.974  172     13323    0.645 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   64.50%
81) 2,4,6-Tribromophenol        7.323  330      6665    1.637 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   81.85%
98) 4-Terphenyl-d14             9.529  244     29433    0.766 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   76.60%
```

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270\Dakota\241221RVT\
Data File : 74329-03.D
Acq On    : 21 Dec 2024   2:56 pm
Operator  : Dakota:smz
Sample    : L2474329-03,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 20   Sample Multiplier: 1

Quant Time: Dec 23 09:31:06 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
             : 2 - I:\8270\Dakota\241221RVT\ADP1221.D
             : 3 - I:\8270\Dakota\241221RVT\AP91221.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. 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\241221RVT\
Data File : 74329-03.D
Acq On : 21 Dec 2024 2:56 pm
Operator : Dakota:smz
Sample : L2474329-03,32,,gmr
Misc : WG2012119,WG2012045,ical21680
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 23 09:31:06 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
: 2 - I:\8270\Dakota\241221RVT\ADP1221.D
: 3 - I:\8270\Dakota\241221RVT\AP91221.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. | |
| 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 | |

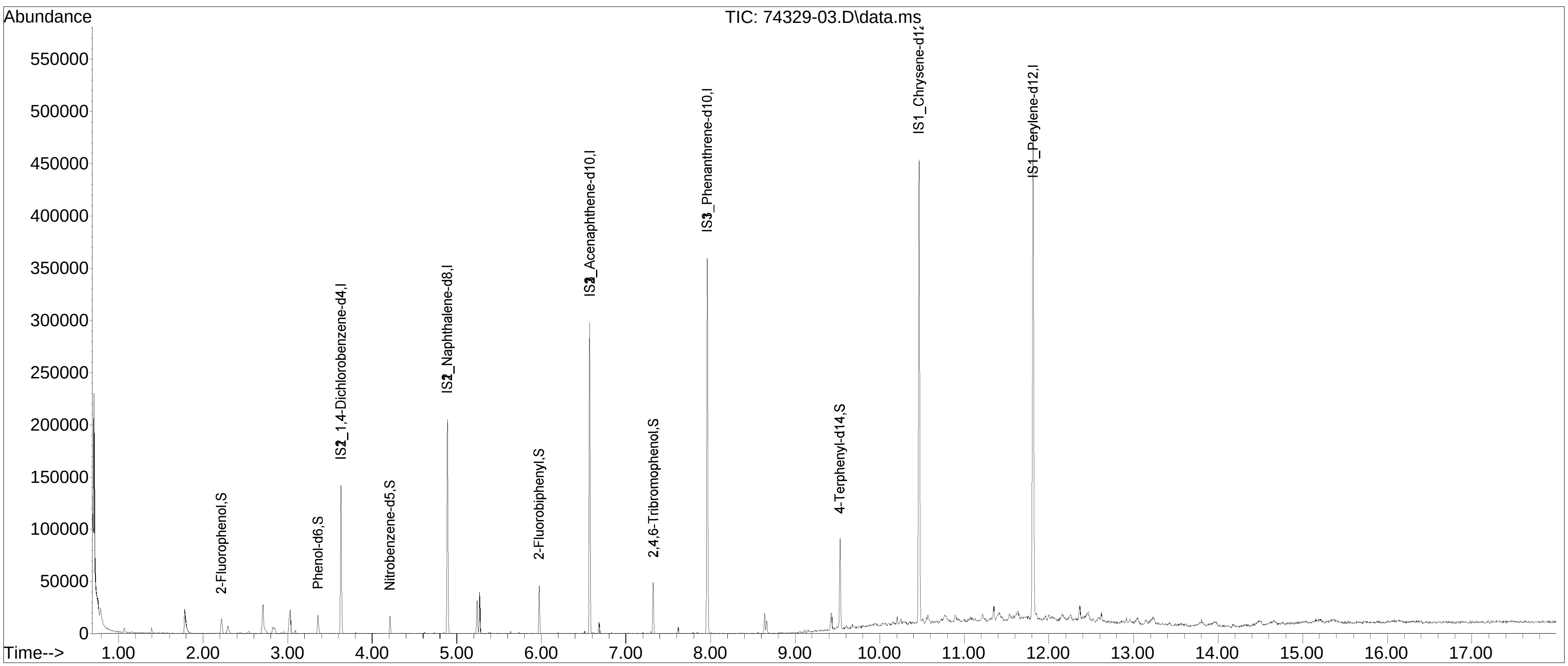
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

```
Data Path : I:\8270\Dakota\241221RVT\
Data File : 74329-03.D
Acq On    : 21 Dec 2024   2:56 pm
Operator  : Dakota:smz
Sample    : L2474329-03,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 20   Sample Multiplier: 1

Quant Time: Dec 23 09:31:06 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

Sub List     : 8270TCL_combo_REV1 - TCL/CT/MAP91221.D•
```



Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : I:\8270\Dakota\241221RVT\ | QMethod | : FS241105RVT_Dakota.m |
| Data File | : 74329-03.D | Operator | : Dakota:smz |
| Date Inj'd | : 12/21/2024 2:56 pm | Instrument | : Dakota |
| Sample | : L2474329-03,32,,gmr | Quant Date | : 12/21/2024 3:14 pm |

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

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270\Dakota\241221RVT\
Data File : 74329-04.D
Acq On    : 21 Dec 2024   3:19 pm
Operator  : Dakota:smz
Sample    : L2474329-04,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 21   Sample Multiplier: 1

Quant Time: Dec 23 09:17:45 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
             : 2 - I:\8270\Dakota\241221RVT\ADP1221.D
             : 3 - I:\8270\Dakota\241221RVT\AP91221.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...   3.630  152     20561     4.000 ug/ml    0.00
   Standard Area 1 = 22385                 Recovery   =   91.85%
27) IS2_1,4-Dichlorobenzen...   3.630  152     20561     4.000 ug/ml    0.00
   Standard Area 3 = 23078                 Recovery   =   89.09%
37) IS1_Naphthalene-d8          4.889  136     81217     4.000 ug/ml  # 0.00
   Standard Area 1 = 89532                 Recovery   =   90.71%
57) IS2_Naphthalene-d8          4.889  136     81217     4.000 ug/ml  # 0.00
   Standard Area 3 = 89152                 Recovery   =   91.10%
65) IS1_Acenaphthene-d10        6.571  164     54007     4.000 ug/ml    0.00
   Standard Area 1 = 62636                 Recovery   =   86.22%
85) IS2_Acenaphthene-d10        6.571  164     54007     4.000 ug/ml    0.00
   Standard Area 3 = 59962                 Recovery   =   90.07%
88) IS3_Acenaphthene-d10        6.571  164     54007     4.000 ug/ml    0.00
   Standard Area 2 = 55641                 Recovery   =   97.06%
90) IS1_Phenanthrene-d10        7.960  188    126240     4.000 ug/ml    0.00
   Standard Area 1 = 138966                 Recovery   =   90.84%
102) IS3_Phenanthrene-d10       7.960  188    126240     4.000 ug/ml    0.00
   Standard Area 2 = 132823                 Recovery   =   95.04%
106) IS1_Chrysene-d12          10.465  240    151432     4.000 ug/ml    0.00
   Standard Area 1 = 162401                 Recovery   =   93.25%
115) IS1_Perylene-d12          11.811  264    182882     4.000 ug/ml    0.00
   Standard Area 1 = 195179                 Recovery   =   93.70%

 System Monitoring Compounds
 4) 2-Fluorophenol              2.216  112      5159     0.976 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   48.80%
 7) Phenol-d6                   3.357   99      4883     0.721 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   36.05%
19) Nitrobenzene-d5             4.208   82      4610     0.750 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   75.00%
48) 2-Fluorobiphenyl            5.974  172     14139     0.703 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   70.30%
81) 2,4,6-Tribromophenol        7.323  330      5886     1.525 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   76.25%
98) 4-Terphenyl-d14             9.533  244     27453     0.752 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   75.20%
```

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270\Dakota\241221RVT\
Data File : 74329-04.D
Acq On    : 21 Dec 2024   3:19 pm
Operator  : Dakota:smz
Sample    : L2474329-04,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 21   Sample Multiplier: 1

Quant Time: Dec 23 09:17:45 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
             : 2 - I:\8270\Dakota\241221RVT\ADP1221.D
             : 3 - I:\8270\Dakota\241221RVT\AP91221.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 | 3.369 | 94 | 994 | 0.136 | ug/ml# | 56 |
| 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\241221RVT\
Data File : 74329-04.D
Acq On : 21 Dec 2024 3:19 pm
Operator : Dakota:smz
Sample : L2474329-04,32,,gmr
Misc : WG2012119,WG2012045,ical21680
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 23 09:17:45 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
: 2 - I:\8270\Dakota\241221RVT\ADP1221.D
: 3 - I:\8270\Dakota\241221RVT\AP91221.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. | |
| 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 | |

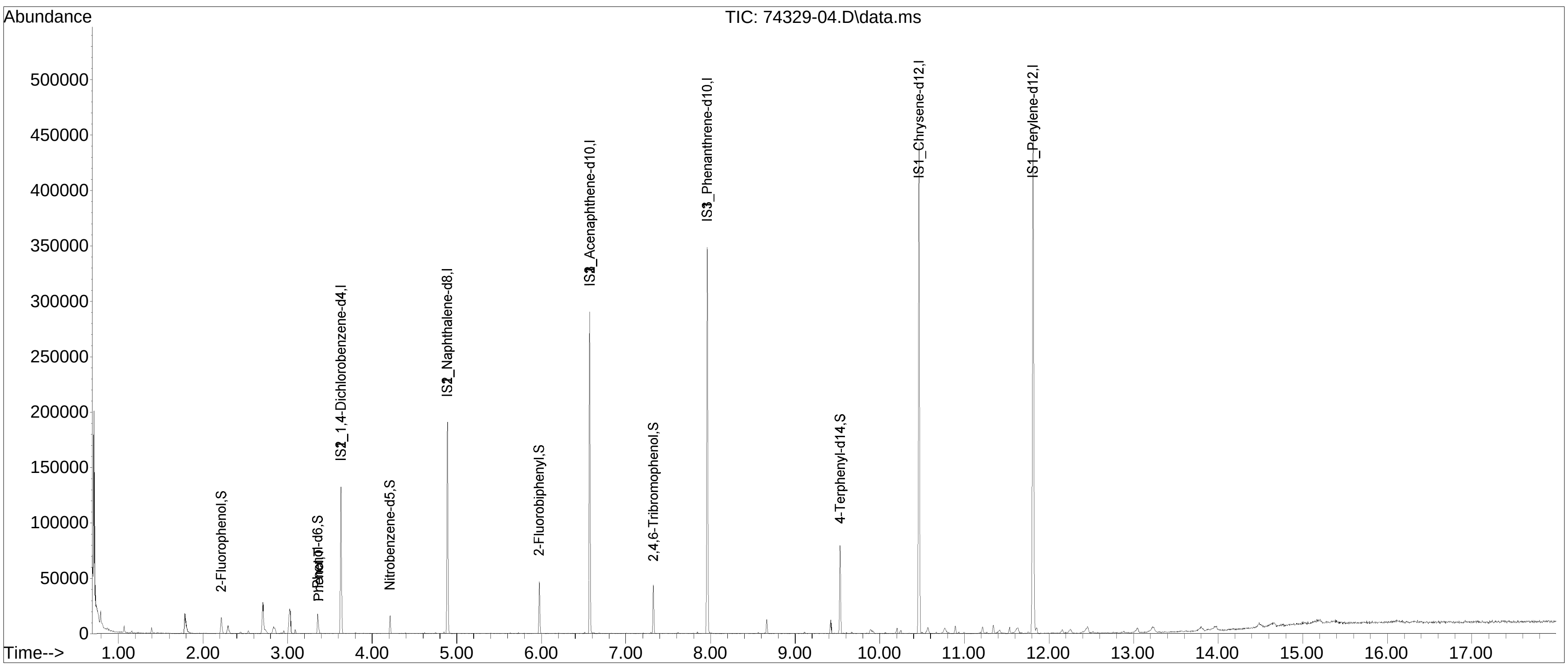
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

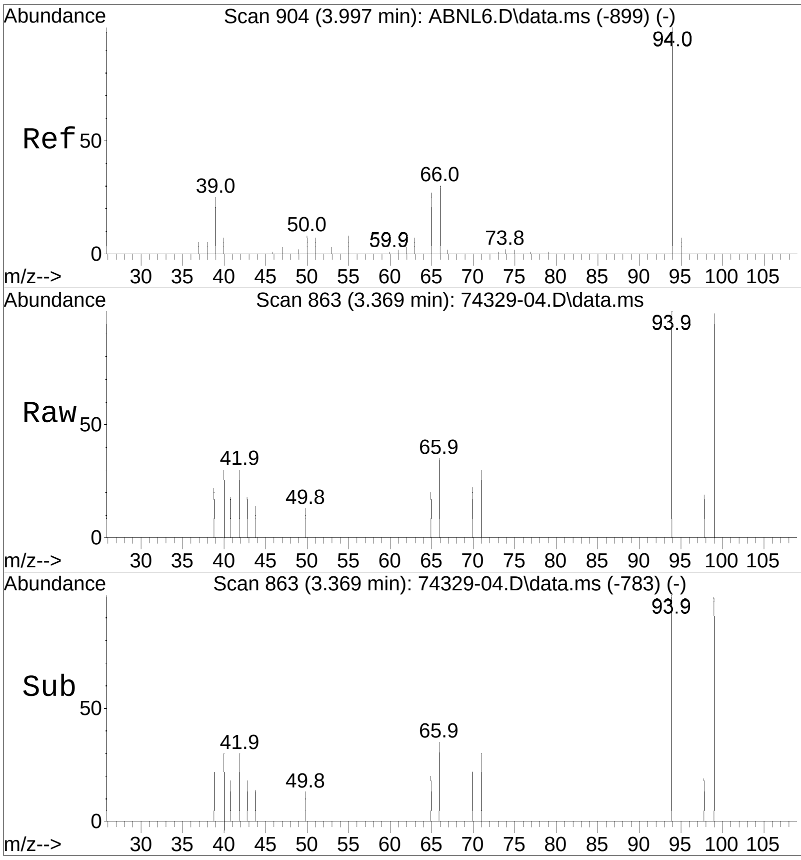
Data Path : I:\8270\Dakota\241221RVT\
Data File : 74329-04.D
Acq On : 21 Dec 2024 3:19 pm
Operator : Dakota:smz
Sample : L2474329-04,32,,gmr
Misc : WG2012119,WG2012045,ical21680
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 23 09:17:45 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP91221.D•



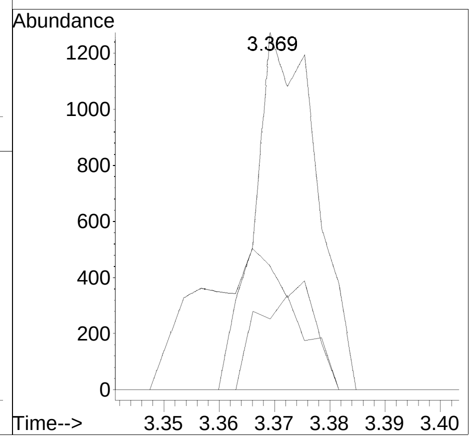

FS241105RVT_Dakota.m Mon Dec 23 09:23:31 2024 Page: 4




#8
Phenol
Concen: 0.14 ug/ml
RT: 3.369 min Scan# 863
Delta R.T. -0.000 min
Lab File: 74329-04.D
Acq: 21 Dec 2024 3:19 pm

Tgt Ion: 94 Resp: 994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 0.0 | 26.0 | 39.0# |
| 66 | 63.4 | 33.8 | 50.8# |



Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : I:\8270\Dakota\241221RVT\ | QMethod | : FS241105RVT_Dakota.m |
| Data File | : 74329-04.D | Operator | : Dakota:smz |
| Date Inj'd | : 12/21/2024 3:19 pm | Instrument | : Dakota |
| Sample | : L2474329-04,32,,gmr | Quant Date | : 12/21/2024 3:37 pm |

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

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270\Dakota\241221RVT\
Data File : 74329-05.D
Acq On    : 21 Dec 2024   3:41 pm
Operator  : Dakota:smz
Sample    : L2474329-05,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 22   Sample Multiplier: 1

Quant Time: Dec 23 09:18:24 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
             : 2 - I:\8270\Dakota\241221RVT\ADP1221.D
             : 3 - I:\8270\Dakota\241221RVT\AP91221.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...   3.630  152     22670     4.000 ug/ml    0.00
   Standard Area 1 = 22385                Recovery   =  101.27%
27) IS2_1,4-Dichlorobenzen...   3.630  152     22670     4.000 ug/ml    0.00
   Standard Area 3 = 23078                Recovery   =   98.23%
37) IS1_Naphthalene-d8          4.889  136     84449     4.000 ug/ml    0.00
   Standard Area 1 = 89532                Recovery   =   94.32%
57) IS2_Naphthalene-d8          4.889  136     84449     4.000 ug/ml    0.00
   Standard Area 3 = 89152                Recovery   =   94.72%
65) IS1_Acenaphthene-d10        6.570  164     57092     4.000 ug/ml    0.00
   Standard Area 1 = 62636                Recovery   =   91.15%
85) IS2_Acenaphthene-d10        6.570  164     57092     4.000 ug/ml    0.00
   Standard Area 3 = 59962                Recovery   =   95.21%
88) IS3_Acenaphthene-d10        6.570  164     57092     4.000 ug/ml    0.00
   Standard Area 2 = 55641                Recovery   =  102.61%
90) IS1_Phenanthrene-d10        7.960  188    133367     4.000 ug/ml    0.00
   Standard Area 1 = 138966                Recovery   =   95.97%
102) IS3_Phenanthrene-d10       7.960  188    133367     4.000 ug/ml    0.00
   Standard Area 2 = 132823                Recovery   =  100.41%
106) IS1_Chrysene-d12          10.462  240    161631     4.000 ug/ml    0.00
   Standard Area 1 = 162401                Recovery   =   99.53%
115) IS1_Perylene-d12          11.811  264    191763     4.000 ug/ml    0.00
   Standard Area 1 = 195179                Recovery   =   98.25%

 System Monitoring Compounds
 4) 2-Fluorophenol              2.219  112      5744     0.986 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   49.30%
 7) Phenol-d6                   3.360   99      5274     0.707 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   35.35%
19) Nitrobenzene-d5             4.208   82      4713     0.696 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   69.60%
48) 2-Fluorobiphenyl            5.974  172     13201     0.632 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   63.20%
81) 2,4,6-Tribromophenol        7.319  330      5876     1.440 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   72.00%
98) 4-Terphenyl-d14             9.529  244     27865     0.722 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   72.20%
```

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270\Dakota\241221RVT\
Data File : 74329-05.D
Acq On    : 21 Dec 2024   3:41 pm
Operator  : Dakota:smz
Sample    : L2474329-05,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 22   Sample Multiplier: 1

Quant Time: Dec 23 09:18:24 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
             : 2 - I:\8270\Dakota\241221RVT\ADP1221.D
             : 3 - I:\8270\Dakota\241221RVT\AP91221.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. | |
| 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\241221RVT\
Data File : 74329-05.D
Acq On : 21 Dec 2024 3:41 pm
Operator : Dakota:smz
Sample : L2474329-05,32,,gmr
Misc : WG2012119,WG2012045,ical21680
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 23 09:18:24 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
: 2 - I:\8270\Dakota\241221RVT\ADP1221.D
: 3 - I:\8270\Dakota\241221RVT\AP91221.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. | |
| 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 | |

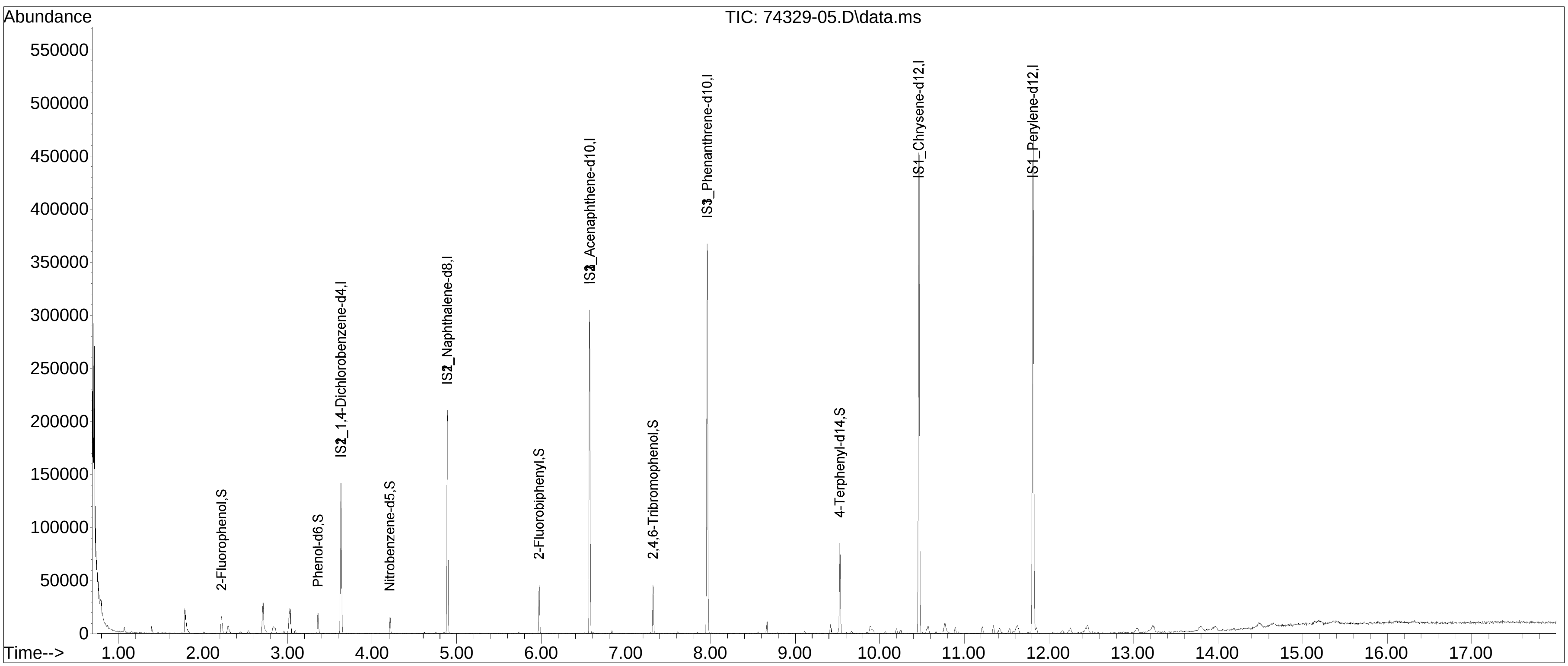
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241221RVT\
Data File : 74329-05.D
Acq On    : 21 Dec 2024   3:41 pm
Operator  : Dakota:smz
Sample    : L2474329-05,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 22   Sample Multiplier: 1

Quant Time: Dec 23 09:18:24 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

Sub List     : 8270TCL_combo_REV1 - TCL/CT/MAP91221.D•




FS241105RVT_Dakota.m Mon Dec 23 09:23:34 2024    Page: 4

Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : I:\8270\Dakota\241221RVT\ | QMethod | : FS241105RVT_Dakota.m |
| Data File | : 74329-05.D | Operator | : Dakota:smz |
| Date Inj'd | : 12/21/2024 3:41 pm | Instrument | : Dakota |
| Sample | : L2474329-05,32,,gmr | Quant Date | : 12/21/2024 3:59 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** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Instrument ID** | **: DAKOTA** | **Ical Ref** | **: ICAL21680** |
| **Calibration dates** | **: 11/05/24 16:59 11/06/24 04:17** | | |

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =ABNL4.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 | 0.688 | 0.547 | 0.631 | 0.657 | 0.592 | 0.619 | 0.625 | 0.637 | 0.677 | 0.630 | 6.87 |
| 3) t | Pyridine | 0.718 | 0.742 | 0.925 | 1.043 | 0.961 | 1.016 | 1.039 | 1.024 | 1.118 | 0.954 | 14.48 |
| 4) S | 2-Fluorophenol | 1.049 | 1.004 | 1.119 | 1.011 | 0.907 | 1.005 | 1.012 | 1.034 | 1.114 | 1.028 | 6.19 |
| 5) T | Aniline | 1.820 | 1.428 | 1.670 | 1.497 | 1.407 | 1.535 | 1.513 | 1.561 | 1.671 | 1.567 | 8.42 |
| 6) t | 2-Chlorophenol | 1.412 | 1.055 | 1.248 | 1.201 | 1.124 | 1.210 | 1.219 | 1.242 | 1.314 | 1.225 | 8.34 |
| 7) S | Phenol-d6 | 1.562 | 1.289 | 1.387 | 1.281 | 1.108 | 1.276 | 1.276 | 1.308 | 1.365 | 1.317 | 9.16 |
| 8) T | Phenol | 1.717 | 1.324 | 1.459 | 1.383 | 1.257 | 1.388 | 1.373 | 1.397 | 1.488 | 1.421 | 9.16 |
| 9) T | bis(2-Chloroethyl)ether | 1.289 | 0.906 | 1.073 | 0.962 | 0.928 | 0.981 | 0.987 | 0.993 | 1.037 | 1.017 | 11.18 |
| 10) T | 1,3-Dichlorobenzene | 1.989 | 1.455 | 1.700 | 1.552 | 1.372 | 1.510 | 1.497 | 1.511 | 1.602 | 1.577 | 11.40 |
| 11) T | 1,4-Dichlorobenzene | 2.118 | 1.551 | 1.603 | 1.571 | 1.432 | 1.536 | 1.512 | 1.529 | 1.633 | 1.610 | 12.35 |
| 12) T | 1,2-Dichlorobenzene | 1.695 | 1.566 | 1.655 | 1.525 | 1.383 | 1.466 | 1.447 | 1.489 | 1.583 | 1.534 | 6.57 |
| 13) t | Benzyl alcohol | 1.016 | 0.858 | 0.891 | 0.896 | 0.818 | 0.912 | 0.930 | 0.995 | 1.055 | 0.930 | 8.32 |
| 14) T | bis(2-chloroisopropyl)ether | 2.239 | 1.745 | 1.843 | 1.773 | 1.610 | 1.706 | 1.707 | 1.728 | 1.793 | 1.794 | 9.98 |
| 15) T | 2-Methylphenol | 1.301 | 1.037 | 1.137 | 1.033 | 0.949 | 1.014 | 1.050 | 1.065 | 1.130 | 1.079 | 9.34 |
| 16) T | Hexachloroethane | 0.791 | 0.505 | 0.620 | 0.596 | 0.507 | 0.543 | 0.558 | 0.571 | 0.615 | 0.589 | 14.63 |
| 17) T | n-Nitrosodi-n-propylamine | 1.121 | 0.834 | 0.856 | 0.811 | 0.724 | 0.813 | 0.829 | 0.866 | 0.909 | 0.863 | 12.65 |
| 18) T | 3-Methylphenol/4-Methylphenol | 1.510 | 1.200 | 1.173 | 1.153 | 0.986 | 1.108 | 1.108 | 1.166 | 1.239 | 1.182 | 12.02 |
| 19) S | Nitrobenzene-d5 | 1.239 | 1.148 | 1.175 | 1.191 | 1.071 | 1.176 | 1.187 | 1.238 | 1.328 | 1.195 | 5.92 |
| 20) T | Nitrobenzene | 1.353 | 1.122 | 1.287 | 1.162 | 1.081 | 1.203 | 1.212 | 1.254 | 1.326 | 1.222 | 7.51 |
| 21) T | Isophorone | 2.724 | 2.161 | 2.268 | 2.038 | 1.932 | 2.172 | 2.181 | 2.313 | 2.433 | 2.247 | 10.29 |
| 22) T | 2-Nitrophenol | 0.655 | 0.587 | 0.609 | 0.564 | 0.538 | 0.598 | 0.623 | 0.674 | 0.721 | 0.619 | 9.18 |
| 23) T | 2,4-Dimethylphenol | 1.368 | 1.006 | 1.085 | 1.051 | 0.963 | 1.062 | 1.074 | 1.108 | 1.188 | 1.101 | 10.75 |
| 24) T | bis(2-Chloroethoxy)methane | 1.605 | 1.319 | 1.550 | 1.332 | 1.236 | 1.352 | 1.353 | 1.401 | 1.451 | 1.400 | 8.36 |
| 25) T | 2,4-Dichlorophenol | 1.548 | 1.174 | 1.340 | 1.190 | 1.118 | 1.246 | 1.245 | 1.307 | 1.399 | 1.285 | 10.22 |
| 26) T | 1,2,4-Trichlorobenzene | 1.977 | 1.522 | 1.585 | 1.488 | 1.349 | 1.476 | 1.475 | 1.515 | 1.611 | 1.555 | 11.25 |
| 27) I | IS2_1,4-Dichlorobenzene-d4 | ----------------ISTD--------------------- | | | | | | | | | | |
| 28) T | Benzaldehyde | 0.535 | 0.565 | 0.698 | 0.703 | 0.698 | 0.762 | 0.770 | 0.814 | 0.786 | 0.703 | 13.73 |
| 29) T | Acetophenone | 1.107 | 1.282 | 1.407 | 1.330 | 1.361 | 1.463 | 1.521 | 1.608 | 1.552 | 1.403 | 11.02 |
| 30) T | m-Toluidine | | | 1.080 | 1.092 | 1.257 | 1.323 | 1.390 | 1.457 | 1.409 | 1.287 | 11.76 |
| 31) T | 2-Chloroaniline | 1.078 | 1.270 | 1.369 | 1.264 | 1.363 | 1.427 | 1.471 | 1.559 | 1.510 | 1.368 | 10.81 |
| 32) I | IS3_1,4-Dichlorobenzene-d4 | ----------------ISTD--------------------- | | | | | | | | | | |
| 33) T | 1,4-Dioxane | | 0.252 | 0.402 | 0.398 | 0.392 | 0.404 | 0.400 | 0.409 | 0.392 | 0.381 | 13.71 |
| 34) t | n-Nitrosodieth | | 0.349 | 0.372 | 0.347 | 0.382 | 0.401 | 0.414 | 0.437 | 0.420 | 0.390 | 8.57 |
| 35) T | n-Decane | 0.828 | 1.074 | 1.101 | 0.967 | 1.017 | 1.097 | 1.087 | 1.158 | 1.107 | 1.048 | 9.45 |
| 36) t | n-Nitrosopyrro | 0.287 | 0.406 | 0.461 | 0.431 | 0.441 | 0.486 | 0.521 | 0.550 | 0.537 | 0.458 | 17.68 |

# Initial Calibration Summary
# Form 6
# Semivolatiles

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Instrument ID** | **: DAKOTA** | **Ical Ref** | **: ICAL21680** |
| **Calibration dates** | **: 11/05/24 16:59 11/06/24 04:17** | | |

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =ABNL4.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 | 1.453 | 1.116 | 1.167 | 1.048 | 0.965 | 1.022 | 1.010 | 1.038 | 1.082 | 1.100 | 13.19 |
| 39) | T | Benzoic Acid | | | | | 0.170 | 0.206 | 0.226 | 0.257 | 0.279 | 0.228 | 18.76 |
| 40) | T | 4-Chloroaniline | 0.150 | 0.114 | 0.123 | 0.117 | 0.108 | 0.118 | 0.114 | 0.119 | 0.125 | 0.121 | 9.98 |
| 41) | T | Hexachlorobutadiene | 0.298 | 0.234 | 0.285 | 0.254 | 0.231 | 0.250 | 0.249 | 0.255 | 0.270 | 0.258 | 8.55 |
| 42) | T | p-Chloro-m-cresol | 0.342 | 0.278 | 0.308 | 0.267 | 0.246 | 0.280 | 0.275 | 0.298 | 0.315 | 0.290 | 9.94 |
| 43) | T | 2-Methylnaphthalene | 1.045 | 0.738 | 0.807 | 0.705 | 0.659 | 0.700 | 0.706 | 0.729 | 0.763 | 0.761 | 15.02 |
| 44) | T | 1-Methylnaphthalene | 0.321 | 0.228 | 0.254 | 0.233 | 0.207 | 0.232 | 0.225 | 0.231 | 0.246 | 0.242 | 13.41 |
| 45) | T | Hexachlorocyclopentadiene | 0.297 | 0.225 | 0.280 | 0.262 | 0.240 | 0.269 | 0.274 | 0.291 | 0.311 | 0.272 | 10.00 |
| 46) | T | 2,4,6-Trichlorophenol | 0.326 | 0.279 | 0.279 | 0.267 | 0.250 | 0.278 | 0.282 | 0.300 | 0.320 | 0.287 | 8.51 |
| 47) | T | 2,4,5-Trichlorophenol | 0.399 | 0.300 | 0.312 | 0.309 | 0.278 | 0.301 | 0.313 | 0.325 | 0.347 | 0.320 | 10.95 |
| 48) | S | 2-Fluorobiphenyl | 1.386 | 0.978 | 1.052 | 0.941 | 0.852 | 0.912 | 0.902 | 0.920 | 0.968 | 0.990 | 16.04 |
| 49) | T | 2-Chloronaphthalene | 1.113 | 0.897 | 0.884 | 0.813 | 0.728 | 0.799 | 0.774 | 0.811 | 0.853 | 0.852 | 13.02 |
| 50) | T | 2-Nitroaniline | 0.220 | 0.198 | 0.212 | 0.207 | 0.184 | 0.216 | 0.223 | 0.243 | 0.260 | 0.218 | 10.43 |
| 51) | T | 1,4-Dinitrobenzene | 0.093 | 0.063 | 0.090 | 0.090 | 0.086 | 0.094 | 0.101 | 0.113 | 0.122 | 0.095 | 17.69 |
| 52) | T | 1,3-Dinitrobenzene | 0.108 | 0.093 | 0.120 | 0.105 | 0.098 | 0.114 | 0.117 | 0.129 | 0.137 | 0.113 | 12.53 |
| 53) | T | Dimethyl phthalate | 1.318 | 0.991 | 1.021 | 0.936 | 0.866 | 0.923 | 0.912 | 0.953 | 0.998 | 0.991 | 13.29 |
| 54) | T | Acenaphthylene | 1.586 | 1.204 | 1.302 | 1.203 | 1.092 | 1.183 | 1.181 | 1.230 | 1.286 | 1.252 | 11.14 |
| 55) | T | 2,6-Dinitrotoluene | 0.192 | 0.157 | 0.185 | 0.174 | 0.167 | 0.186 | 0.187 | 0.201 | 0.215 | 0.185 | 9.50 |
| 56) | T | 1,2-Dinitrobenzene | | 0.043 | 0.065 | 0.067 | 0.062 | 0.070 | 0.069 | 0.073 | 0.080 | 0.066 | 16.02 |
| 57) | I | IS2_Naphthalene-d8 | ----------------ISTD-------------------- | | | | | | | | | | |
| 58) | T | a-Terpineol | 0.162 | 0.210 | 0.212 | 0.213 | 0.210 | 0.235 | 0.239 | 0.261 | 0.251 | 0.221 | 13.16 |
| 59) | T | 3-Chloroaniline | | 0.086 | 0.112 | 0.111 | 0.106 | 0.125 | 0.121 | 0.129 | 0.125 | 0.115 | 12.17 |
| 60) | T | 2,6-Dichlorophenol | 0.250 | 0.246 | 0.297 | 0.277 | 0.286 | 0.319 | 0.317 | 0.339 | 0.329 | 0.296 | 11.35 |
| 61) | T | 1-chloro-2-nitrobenzene | 0.068 | 0.091 | 0.114 | 0.114 | 0.114 | 0.126 | 0.124 | 0.137 | 0.133 | 0.113 | 19.26 |
| 62) | T | Caprolactam | 0.115 | 0.103 | 0.112 | 0.114 | 0.113 | 0.127 | 0.132 | 0.146 | 0.142 | 0.123 | 12.07 |
| 63) | T | 1,2,4,5-Tetrachlorobenzene | 0.355 | 0.419 | 0.415 | 0.393 | 0.401 | 0.437 | 0.417 | 0.450 | 0.429 | 0.413 | 6.76 |
| 64) | T | Biphenyl | 0.719 | 0.789 | 0.880 | 0.804 | 0.823 | 0.897 | 0.870 | 0.918 | 0.876 | 0.842 | 7.51 |
| 65) | I | IS1_Acenaphthene-d10 | ----------------ISTD-------------------- | | | | | | | | | | |
| 66) | T | 3-Nitroaniline | 0.312 | 0.289 | 0.294 | 0.288 | 0.284 | 0.310 | 0.324 | 0.332 | 0.349 | 0.309 | 7.30 |
| 67) | T | Acenaphthene | 1.665 | 1.203 | 1.195 | 1.092 | 1.004 | 1.062 | 1.049 | 1.077 | 1.122 | 1.163 | 17.13 |
| 68) | T | 2,4-Dinitrophenol | | | | 0.130 | 0.149 | 0.172 | 0.185 | 0.208 | 0.226 | *L | 0.9959 |
| 69) | T | Dibenzofuran | 2.796 | 2.124 | 2.085 | 1.944 | 1.749 | 1.824 | 1.814 | 1.833 | 1.885 | 2.006 | 16.04 |
| 70) | T | 2,4-Dinitrotoluene | 0.373 | 0.326 | 0.366 | 0.349 | 0.361 | 0.402 | 0.410 | 0.433 | 0.464 | 0.387 | 11.29 |
| 71) | T | 4-Nitrophenol | 0.229 | 0.206 | 0.209 | 0.221 | 0.208 | 0.233 | 0.237 | 0.255 | 0.273 | 0.230 | 9.86 |
| 72) | T | 2,3,5,6-Tetrachlorophenol | 0.465 | 0.419 | 0.459 | 0.406 | 0.390 | 0.425 | 0.429 | 0.454 | 0.481 | 0.436 | 6.86 |

# Initial Calibration Summary
# Form 6
# Semivolatiles

| | | | |
|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Instrument ID** | : **DAKOTA** | **Ical Ref** | : **ICAL21680** |
| **Calibration dates** | : **11/05/24 16:59 11/06/24 04:17** | | |

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =ABNL4.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 | 0.536 | 0.376 | 0.418 | 0.411 | 0.383 | 0.413 | 0.421 | 0.432 | 0.461 | 0.428 | 11.15 |
| 74) | T | Diethyl phthalate | 2.187 | 1.601 | 1.621 | 1.458 | 1.366 | 1.435 | 1.445 | 1.489 | 1.570 | 1.575 | 15.53 |
| 75) | T | Fluorene | 2.060 | 1.606 | 1.598 | 1.495 | 1.311 | 1.420 | 1.399 | 1.439 | 1.498 | 1.536 | 14.16 |
| 76) | T | 4-Chlorophenyl-phenylether | 1.099 | 0.823 | 0.819 | 0.767 | 0.683 | 0.722 | 0.716 | 0.736 | 0.762 | 0.792 | 15.66 |
| 77) | T | 4-Nitroaniline | 0.236 | 0.258 | 0.299 | 0.296 | 0.275 | 0.312 | 0.317 | 0.337 | 0.357 | 0.299 | 12.76 |
| 78) | T | 4,6-Dinitro-o-cresol | 0.240 | 0.149 | 0.221 | 0.215 | 0.210 | 0.242 | 0.251 | 0.278 | 0.300 | 0.234 | 18.54 |
| 79) | T | NDPA/DPA | 1.902 | 1.355 | 1.398 | 1.272 | 1.134 | 1.220 | 1.202 | 1.245 | 1.300 | 1.337 | 16.94 |
| 80) | T | Azobenzene | 1.550 | 1.299 | 1.365 | 1.219 | 1.116 | 1.216 | 1.210 | 1.254 | 1.298 | 1.281 | 9.61 |
| 81) | S | 2,4,6-Tribromophenol | 0.315 | 0.286 | 0.278 | 0.265 | 0.249 | 0.272 | 0.276 | 0.299 | 0.332 | 0.286 | 8.99 |
| 82) | T | 4-Bromophenyl-phenylether | 0.722 | 0.544 | 0.560 | 0.476 | 0.442 | 0.474 | 0.474 | 0.485 | 0.517 | 0.522 | 16.10 |
| 83) | T | Hexachlorobenzene | 0.895 | 0.718 | 0.682 | 0.616 | 0.571 | 0.586 | 0.579 | 0.605 | 0.656 | 0.656 | 15.60 |
| 84) | T | Pentachlorophenol | 0.372 | 0.280 | 0.312 | 0.320 | 0.315 | 0.357 | 0.379 | 0.412 | 0.455 | 0.356 | 15.51 |
| 85) | I | IS2_Acenaphthene-d10 | ----------------ISTD-------------------- | | | | | | | | | | |
| 86) | T | Dichloran | | 0.151 | 0.132 | 0.142 | 0.146 | 0.165 | 0.185 | 0.214 | 0.217 | 0.169 | 19.47 |
| 87) | T | Pentachloronitrobenzene | | | 0.157 | 0.173 | 0.164 | 0.181 | 0.190 | 0.220 | 0.221 | 0.187 | 13.74 |
| 88) | I | IS3_Acenaphthene-d10 | ----------------ISTD-------------------- | | | | | | | | | | |
| 89) | T | Atrazine | 0.307 | 0.322 | 0.368 | 0.285 | 0.313 | 0.342 | 0.350 | 0.401 | 0.400 | 0.343 | 11.90 |
| 90) | I | IS1_Phenanthrene-d10 | ----------------ISTD-------------------- | | | | | | | | | | |
| 91) | T | Phenanthrene | 1.655 | 1.246 | 1.214 | 1.134 | 1.019 | 1.085 | 1.072 | 1.100 | 1.119 | 1.183 | 16.11 |
| 92) | T | Anthracene | 1.572 | 1.147 | 1.191 | 1.098 | 1.017 | 1.082 | 1.065 | 1.115 | 1.153 | 1.160 | 14.06 |
| 93) | T | Carbazole | 1.327 | 1.038 | 1.109 | 1.013 | 0.956 | 1.020 | 1.001 | 1.037 | 1.079 | 1.064 | 10.14 |
| 94) | T | Di-n-butylphthalate | 1.417 | 1.094 | 1.207 | 1.105 | 1.064 | 1.185 | 1.204 | 1.275 | 1.309 | 1.207 | 9.42 |
| 95) | T | Fluoranthene | 1.943 | 1.443 | 1.460 | 1.351 | 1.250 | 1.321 | 1.315 | 1.344 | 1.374 | 1.422 | 14.44 |
| 96) | T | Benzidine | 0.815 | 0.657 | 0.698 | 0.696 | 0.708 | 0.801 | 0.818 | 0.853 | 0.900 | 0.772 | 10.90 |
| 97) | T | Pyrene | 2.028 | 1.546 | 1.562 | 1.479 | 1.353 | 1.429 | 1.397 | 1.427 | 1.456 | 1.520 | 13.29 |
| 98) | S | 4-Terphenyl-d14 | 1.660 | 1.139 | 1.202 | 1.092 | 1.007 | 1.066 | 1.052 | 1.085 | 1.114 | 1.157 | 16.95 |
| 99) | T | Butyl benzyl phthalate | 0.567 | 0.415 | 0.479 | 0.447 | 0.453 | 0.520 | 0.541 | 0.594 | 0.635 | 0.517 | 14.34 |
| 100) | I | IS2_Phenanthrene-d10 | ----------------ISTD-------------------- | | | | | | | | | | |
| 101) | T | Diphenamid | 0.347 | 0.380 | 0.392 | 0.377 | 0.390 | 0.434 | 0.456 | 0.494 | 0.474 | 0.416 | 12.13 |
| 102) | I | IS3_Phenanthrene-d10 | ----------------ISTD-------------------- | | | | | | | | | | |
| 103) | T | n-Octadecane | 0.279 | 0.354 | 0.355 | 0.289 | 0.309 | 0.332 | 0.347 | 0.369 | 0.369 | 0.334 | 10.10 |
| 104) | T | Parathion | | | 0.076 | 0.062 | 0.069 | 0.074 | 0.086 | 0.106 | 0.115 | *Q | 0.9978 |
| 105) | T | 3,3'-Dimethylbenzidine | | | | 0.425 | 0.542 | 0.649 | 0.734 | 0.845 | 0.870 | *L | 0.9972 |
| 106) | I | IS1_Chrysene-d12 | ----------------ISTD-------------------- | | | | | | | | | | |
| 107) | T | Benzo[a]anthracene | 1.869 | 1.383 | 1.408 | 1.283 | 1.164 | 1.251 | 1.262 | 1.278 | 1.301 | 1.355 | 15.16 |
| 108) | T | 3,3'-Dichlorobenzidine | 0.587 | 0.439 | 0.489 | 0.467 | 0.455 | 0.503 | 0.519 | 0.533 | 0.552 | 0.505 | 9.52 |

# Initial Calibration Summary
# Form 6
# Semivolatiles

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Instrument ID** | **: DAKOTA** | **Ical Ref** | **: ICAL21680** |
| **Calibration dates** | **: 11/05/24 16:59 11/06/24 04:17** | | |

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =ABNL4.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 | 1.959 | 1.373 | 1.454 | 1.290 | 1.162 | 1.224 | 1.199 | 1.230 | 1.250 | 1.349 | 18.23 |
| 110) | T | bis(2-Ethylhexyl)phthalate | 0.831 | 0.597 | 0.665 | 0.632 | 0.630 | 0.732 | 0.775 | 0.822 | 0.855 | 0.726 | 13.56 |
| 111) | T | Di-n-octylphthalate | 1.380 | 1.021 | 1.044 | 1.017 | 1.027 | 1.217 | 1.316 | 1.411 | 1.473 | 1.212 | 15.54 |
| 112) | T | Benzo(b)fluoranthene | 1.822 | 1.402 | 1.469 | 1.372 | 1.282 | 1.313 | 1.333 | 1.348 | 1.437 | 1.420 | 11.43 |
| 113) | T | Benzo(k)fluoranthene | 1.743 | 1.264 | 1.425 | 1.314 | 1.209 | 1.355 | 1.362 | 1.367 | 1.409 | 1.383 | 10.93 |
| 114) | T | Benzo(a)pyrene | 1.495 | 1.196 | 1.246 | 1.206 | 1.127 | 1.232 | 1.262 | 1.289 | 1.349 | 1.267 | 8.34 |
| 115) | I | IS1_Perylene-d12 | ----------------ISTD-------------------- | | | | | | | | | | |
| 116) | T | Indeno(1,2,3-cd)pyrene | 1.598 | 1.131 | 1.193 | 1.086 | 1.057 | 1.169 | 1.203 | 1.283 | 1.387 | 1.234 | 13.71 |
| 117) | T | Dibenzo[a,h]anthracene | 1.503 | 1.130 | 1.213 | 1.140 | 1.076 | 1.169 | 1.186 | 1.217 | 1.281 | 1.213 | 10.21 |
| 118) | T | Benzo(g,h,i)perylene | 1.547 | 1.172 | 1.230 | 1.097 | 1.024 | 1.118 | 1.137 | 1.171 | 1.234 | 1.192 | 12.43 |

Response Factor Report Dakota

Method Path : I:\8270\Dakota\241105RVTICAL\
Method File : FS241105RVT_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Nov 11 15:34:18 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =ABNL4.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 | 0.688 | 0.547 | 0.631 | 0.657 | 0.592 | 0.619 | 0.625 | 0.637 | 0.677 | 0.630 | 6.87 |
| 3) t | Pyridine | 0.718 | 0.742 | 0.925 | 1.043 | 0.961 | 1.016 | 1.039 | 1.024 | 1.118 | 0.954 | 14.48 |
| 4) S | 2-Fluorophenol | 1.049 | 1.004 | 1.119 | 1.011 | 0.907 | 1.005 | 1.012 | 1.034 | 1.114 | 1.028 | 6.19 |
| 5) T | Aniline | 1.820 | 1.428 | 1.670 | 1.497 | 1.407 | 1.535 | 1.513 | 1.561 | 1.671 | 1.567 | 8.42 |
| 6) t | 2-Chlorophenol | 1.412 | 1.055 | 1.248 | 1.201 | 1.124 | 1.210 | 1.219 | 1.242 | 1.314 | 1.225 | 8.34 |
| 7) S | Phenol-d6 | 1.562 | 1.289 | 1.387 | 1.281 | 1.108 | 1.276 | 1.276 | 1.308 | 1.365 | 1.317 | 9.16 |
| 8) T | Phenol | 1.717 | 1.324 | 1.459 | 1.383 | 1.257 | 1.388 | 1.373 | 1.397 | 1.488 | 1.421 | 9.16 |
| 9) T | bis(2-Chloroethyl)ether | 1.289 | 0.906 | 1.073 | 0.962 | 0.928 | 0.981 | 0.987 | 0.993 | 1.037 | 1.017 | 11.18 |
| 10) T | 1,3-Dichlorobenzene | 1.989 | 1.455 | 1.700 | 1.552 | 1.372 | 1.510 | 1.497 | 1.511 | 1.602 | 1.577 | 11.40 |
| 11) T | 1,4-Dichlorobenzene | 2.118 | 1.551 | 1.603 | 1.571 | 1.432 | 1.536 | 1.512 | 1.529 | 1.633 | 1.610 | 12.35 |
| 12) T | 1,2-Dichlorobenzene | 1.695 | 1.566 | 1.655 | 1.525 | 1.383 | 1.466 | 1.447 | 1.489 | 1.583 | 1.534 | 6.57 |
| 13) t | Benzyl alcohol | 1.016 | 0.858 | 0.891 | 0.896 | 0.818 | 0.912 | 0.930 | 0.995 | 1.055 | 0.930 | 8.32 |
| 14) T | bis(2-chloroisopropyl)ether | 2.239 | 1.745 | 1.843 | 1.773 | 1.610 | 1.706 | 1.707 | 1.728 | 1.793 | 1.794 | 9.98 |
| 15) T | 2-Methylphenol | 1.301 | 1.037 | 1.137 | 1.033 | 0.949 | 1.014 | 1.050 | 1.065 | 1.130 | 1.079 | 9.34 |
| 16) T | Hexachloroethane | 0.791 | 0.505 | 0.620 | 0.596 | 0.507 | 0.543 | 0.558 | 0.571 | 0.615 | 0.589 | 14.63 |
| 17) T | n-Nitrosodi-n-propylamine | 1.121 | 0.834 | 0.856 | 0.811 | 0.724 | 0.813 | 0.829 | 0.866 | 0.909 | 0.863 | 12.65 |
| 18) T | 3-Methylphenol/4-Methylphenol | 1.510 | 1.200 | 1.173 | 1.153 | 0.986 | 1.108 | 1.108 | 1.166 | 1.239 | 1.182 | 12.02 |
| 19) S | Nitrobenzene-d5 | 1.239 | 1.148 | 1.175 | 1.191 | 1.071 | 1.176 | 1.187 | 1.238 | 1.328 | 1.195 | 5.92 |
| 20) T | Nitrobenzene | 1.353 | 1.122 | 1.287 | 1.162 | 1.081 | 1.203 | 1.212 | 1.254 | 1.326 | 1.222 | 7.51 |
| 21) T | Isophorone | 2.724 | 2.161 | 2.268 | 2.038 | 1.932 | 2.172 | 2.181 | 2.313 | 2.433 | 2.247 | 10.29 |
| 22) T | 2-Nitrophenol | 0.655 | 0.587 | 0.609 | 0.564 | 0.538 | 0.598 | 0.623 | 0.674 | 0.721 | 0.619 | 9.18 |
| 23) T | 2,4-Dimethylphenol | 1.368 | 1.006 | 1.085 | 1.051 | 0.963 | 1.062 | 1.074 | 1.108 | 1.188 | 1.101 | 10.75 |
| 24) T | bis(2-Chloroethoxy)methane | 1.605 | 1.319 | 1.550 | 1.332 | 1.236 | 1.352 | 1.353 | 1.401 | 1.451 | 1.400 | 8.36 |
| 25) T | 2,4-Dichlorophenol | 1.548 | 1.174 | 1.340 | 1.190 | 1.118 | 1.246 | 1.245 | 1.307 | 1.399 | 1.285 | 10.22 |
| 26) T | 1,2,4-Trichlorobenzene | 1.977 | 1.522 | 1.585 | 1.488 | 1.349 | 1.476 | 1.475 | 1.515 | 1.611 | 1.555 | 11.25 |
| 27) I | IS2_1,4-Dichlorobenzene-d4 | ----------------ISTD--------------------- | | | | | | | | | | |
| 28) T | Benzaldehyde | 0.535 | 0.565 | 0.698 | 0.703 | 0.698 | 0.762 | 0.770 | 0.814 | 0.786 | 0.703 | 13.73 |
| 29) T | Acetophenone | 1.107 | 1.282 | 1.407 | 1.330 | 1.361 | 1.463 | 1.521 | 1.608 | 1.552 | 1.403 | 11.02 |
| 30) T | m-Toluidine | | | 1.080 | 1.092 | 1.257 | 1.323 | 1.390 | 1.457 | 1.409 | 1.287 | 11.76 |
| 31) T | 2-Chloroaniline | 1.078 | 1.270 | 1.369 | 1.264 | 1.363 | 1.427 | 1.471 | 1.559 | 1.510 | 1.368 | 10.81 |
| 32) I | IS3_1,4-Dichlorobenzene-d4 | ----------------ISTD--------------------- | | | | | | | | | | |
| 33) T | 1,4-Dioxane | | 0.252 | 0.402 | 0.398 | 0.392 | 0.404 | 0.400 | 0.409 | 0.392 | 0.381 | 13.71 |
| 34) t | n-Nitrosodieth... | | 0.349 | 0.372 | 0.347 | 0.382 | 0.401 | 0.414 | 0.437 | 0.420 | 0.390 | 8.57 |
| 35) T | n-Decane | 0.828 | 1.074 | 1.101 | 0.967 | 1.017 | 1.097 | 1.087 | 1.158 | 1.107 | 1.048 | 9.45 |
| 36) t | n-Nitrosopyrro... | 0.287 | 0.406 | 0.461 | 0.431 | 0.441 | 0.486 | 0.521 | 0.550 | 0.537 | 0.458 | 17.68 |
| 37) I | IS1_Naphthalene-d8 | ----------------ISTD--------------------- | | | | | | | | | | |
| 38) T | Naphthalene | 1.453 | 1.116 | 1.167 | 1.048 | 0.965 | 1.022 | 1.010 | 1.038 | 1.082 | 1.100 | 13.19 |
| 39) T | Benzoic Acid | | | | | 0.170 | 0.206 | 0.226 | 0.257 | 0.279 | 0.228 | 18.76 |
| 40) T | 4-Chloroaniline | 0.150 | 0.114 | 0.123 | 0.117 | 0.108 | 0.118 | 0.114 | 0.119 | 0.125 | 0.121 | 9.98 |
| 41) T | Hexachlorobutadiene | 0.298 | 0.234 | 0.285 | 0.254 | 0.231 | 0.250 | 0.249 | 0.255 | 0.270 | 0.258 | 8.55 |
| 42) T | p-Chloro-m-cresol | 0.342 | 0.278 | 0.308 | 0.267 | 0.246 | 0.280 | 0.275 | 0.298 | 0.315 | 0.290 | 9.94 |
| 43) T | 2-Methylnaphthalene | 1.045 | 0.738 | 0.807 | 0.705 | 0.659 | 0.700 | 0.706 | 0.729 | 0.763 | 0.761 | 15.02 |
| 44) T | 1-Methylnaphthalene | 0.321 | 0.228 | 0.254 | 0.233 | 0.207 | 0.232 | 0.225 | 0.231 | 0.246 | 0.242 | 13.41 |
| 45) T | Hexachlorocyclopentadiene | 0.297 | 0.225 | 0.280 | 0.262 | 0.240 | 0.269 | 0.274 | 0.291 | 0.311 | 0.272 | 10.00 |

Response Factor Report Dakota

Method Path : I:\8270\Dakota\241105RVTICAL\
Method File : FS241105RVT_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Nov 11 15:34:18 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =ABNL4.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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 46) | T | 2,4,6-Trichlorophenol | 0.326 | 0.279 | 0.279 | 0.267 | 0.250 | 0.278 | 0.282 | 0.300 | 0.320 | 0.287 | 8.51 |
| 47) | T | 2,4,5-Trichlorophenol | 0.399 | 0.300 | 0.312 | 0.309 | 0.278 | 0.301 | 0.313 | 0.325 | 0.347 | 0.320 | 10.95 |
| 48) | S | 2-Fluorobiphenyl | 1.386 | 0.978 | 1.052 | 0.941 | 0.852 | 0.912 | 0.902 | 0.920 | 0.968 | 0.990 | 16.04 |
| 49) | T | 2-Chloronaphthalene | 1.113 | 0.897 | 0.884 | 0.813 | 0.728 | 0.799 | 0.774 | 0.811 | 0.853 | 0.852 | 13.02 |
| 50) | T | 2-Nitroaniline | 0.220 | 0.198 | 0.212 | 0.207 | 0.184 | 0.216 | 0.223 | 0.243 | 0.260 | 0.218 | 10.43 |
| 51) | T | 1,4-Dinitrobenzene | 0.093 | 0.063 | 0.090 | 0.090 | 0.086 | 0.094 | 0.101 | 0.113 | 0.122 | 0.095 | 17.69 |
| 52) | T | 1,3-Dinitrobenzene | 0.108 | 0.093 | 0.120 | 0.105 | 0.098 | 0.114 | 0.117 | 0.129 | 0.137 | 0.113 | 12.53 |
| 53) | T | Dimethyl phthalate | 1.318 | 0.991 | 1.021 | 0.936 | 0.866 | 0.923 | 0.912 | 0.953 | 0.998 | 0.991 | 13.29 |
| 54) | T | Acenaphthylene | 1.586 | 1.204 | 1.302 | 1.203 | 1.092 | 1.183 | 1.181 | 1.230 | 1.286 | 1.252 | 11.14 |
| 55) | T | 2,6-Dinitrotoluene | 0.192 | 0.157 | 0.185 | 0.174 | 0.167 | 0.186 | 0.187 | 0.201 | 0.215 | 0.185 | 9.50 |
| 56) | T | 1,2-Dinitrobenzene | | 0.043 | 0.065 | 0.067 | 0.062 | 0.070 | 0.069 | 0.073 | 0.080 | 0.066 | 16.02 |
| 57) | I | IS2_Naphthalene-d8 | ----------------ISTD--------------------- | | | | | | | | | | |
| 58) | T | a-Terpineol | 0.162 | 0.210 | 0.212 | 0.213 | 0.210 | 0.235 | 0.239 | 0.261 | 0.251 | 0.221 | 13.16 |
| 59) | T | 3-Chloroaniline | | 0.086 | 0.112 | 0.111 | 0.106 | 0.125 | 0.121 | 0.129 | 0.125 | 0.115 | 12.17 |
| 60) | T | 2,6-Dichlorophenol | 0.250 | 0.246 | 0.297 | 0.277 | 0.286 | 0.319 | 0.317 | 0.339 | 0.329 | 0.296 | 11.35 |
| 61) | T | 1-chloro-2-nitrobenzene | 0.068 | 0.091 | 0.114 | 0.114 | 0.114 | 0.126 | 0.124 | 0.137 | 0.133 | 0.113 | 19.26 |
| 62) | T | Caprolactam | 0.115 | 0.103 | 0.112 | 0.114 | 0.113 | 0.127 | 0.132 | 0.146 | 0.142 | 0.123 | 12.07 |
| 63) | T | 1,2,4,5-Tetrachlorobenzene | 0.355 | 0.419 | 0.415 | 0.393 | 0.401 | 0.437 | 0.417 | 0.450 | 0.429 | 0.413 | 6.76 |
| 64) | T | Biphenyl | 0.719 | 0.789 | 0.880 | 0.804 | 0.823 | 0.897 | 0.870 | 0.918 | 0.876 | 0.842 | 7.51 |
| 65) | I | IS1_Acenaphthene-d10 | ----------------ISTD--------------------- | | | | | | | | | | |
| 66) | T | 3-Nitroaniline | 0.312 | 0.289 | 0.294 | 0.288 | 0.284 | 0.310 | 0.324 | 0.332 | 0.349 | 0.309 | 7.30 |
| 67) | T | Acenaphthene | 1.665 | 1.203 | 1.195 | 1.092 | 1.004 | 1.062 | 1.049 | 1.077 | 1.122 | 1.163 | 17.13 |
| 68) | T | 2,4-Dinitrophenol | | | | 0.130 | 0.149 | 0.172 | 0.185 | 0.208 | 0.226 | *L | 0.9959 |
| 69) | T | Dibenzofuran | 2.796 | 2.124 | 2.085 | 1.944 | 1.749 | 1.824 | 1.814 | 1.833 | 1.885 | 2.006 | 16.04 |
| 70) | T | 2,4-Dinitrotoluene | 0.373 | 0.326 | 0.366 | 0.349 | 0.361 | 0.402 | 0.410 | 0.433 | 0.464 | 0.387 | 11.29 |
| 71) | T | 4-Nitrophenol | 0.229 | 0.206 | 0.209 | 0.221 | 0.208 | 0.233 | 0.237 | 0.255 | 0.273 | 0.230 | 9.86 |
| 72) | T | 2,3,5,6-Tetrachlorophenol | 0.465 | 0.419 | 0.459 | 0.406 | 0.390 | 0.425 | 0.429 | 0.454 | 0.481 | 0.436 | 6.86 |
| 73) | T | 2,3,4,6-Tetrachlorophenol | 0.536 | 0.376 | 0.418 | 0.411 | 0.383 | 0.413 | 0.421 | 0.432 | 0.461 | 0.428 | 11.15 |
| 74) | T | Diethyl phthalate | 2.187 | 1.601 | 1.621 | 1.458 | 1.366 | 1.435 | 1.445 | 1.489 | 1.570 | 1.575 | 15.53 |
| 75) | T | Fluorene | 2.060 | 1.606 | 1.598 | 1.495 | 1.311 | 1.420 | 1.399 | 1.439 | 1.498 | 1.536 | 14.16 |
| 76) | T | 4-Chlorophenyl-phenylether | 1.099 | 0.823 | 0.819 | 0.767 | 0.683 | 0.722 | 0.716 | 0.736 | 0.762 | 0.792 | 15.66 |
| 77) | T | 4-Nitroaniline | 0.236 | 0.258 | 0.299 | 0.296 | 0.275 | 0.312 | 0.317 | 0.337 | 0.357 | 0.299 | 12.76 |
| 78) | T | 4,6-Dinitro-o-cresol | 0.240 | 0.149 | 0.221 | 0.215 | 0.210 | 0.242 | 0.251 | 0.278 | 0.300 | 0.234 | 18.54 |
| 79) | T | NDPA/DPA | 1.902 | 1.355 | 1.398 | 1.272 | 1.134 | 1.220 | 1.202 | 1.245 | 1.300 | 1.337 | 16.94 |
| 80) | T | Azobenzene | 1.550 | 1.299 | 1.365 | 1.219 | 1.116 | 1.216 | 1.210 | 1.254 | 1.298 | 1.281 | 9.61 |
| 81) | S | 2,4,6-Tribromophenol | 0.315 | 0.286 | 0.278 | 0.265 | 0.249 | 0.272 | 0.276 | 0.299 | 0.332 | 0.286 | 8.99 |
| 82) | T | 4-Bromophenyl-phenylether | 0.722 | 0.544 | 0.560 | 0.476 | 0.442 | 0.474 | 0.474 | 0.485 | 0.517 | 0.522 | 16.10 |
| 83) | T | Hexachlorobenzene | 0.895 | 0.718 | 0.682 | 0.616 | 0.571 | 0.586 | 0.579 | 0.605 | 0.656 | 0.656 | 15.60 |
| 84) | T | Pentachlorophenol | 0.372 | 0.280 | 0.312 | 0.320 | 0.315 | 0.357 | 0.379 | 0.412 | 0.455 | 0.356 | 15.51 |
| 85) | I | IS2_Acenaphthene-d10 | ----------------ISTD--------------------- | | | | | | | | | | |
| 86) | T | Dichloran | | 0.151 | 0.132 | 0.142 | 0.146 | 0.165 | 0.185 | 0.214 | 0.217 | 0.169 | 19.47 |
| 87) | T | Pentachloronitrobenzene | | | 0.157 | 0.173 | 0.164 | 0.181 | 0.190 | 0.220 | 0.221 | 0.187 | 13.74 |
| 88) | I | IS3_Acenaphthene-d10 | ----------------ISTD--------------------- | | | | | | | | | | |
| 89) | T | Atrazine | 0.307 | 0.322 | 0.368 | 0.285 | 0.313 | 0.342 | 0.350 | 0.401 | 0.400 | 0.343 | 11.90 |
| 90) | I | IS1_Phenanthrene-d10 | ----------------ISTD--------------------- | | | | | | | | | | |

Method Path : I:\8270\Dakota\241105RVTICAL\
Method File : FS241105RVT_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Nov 11 15:34:18 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =ABNL4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

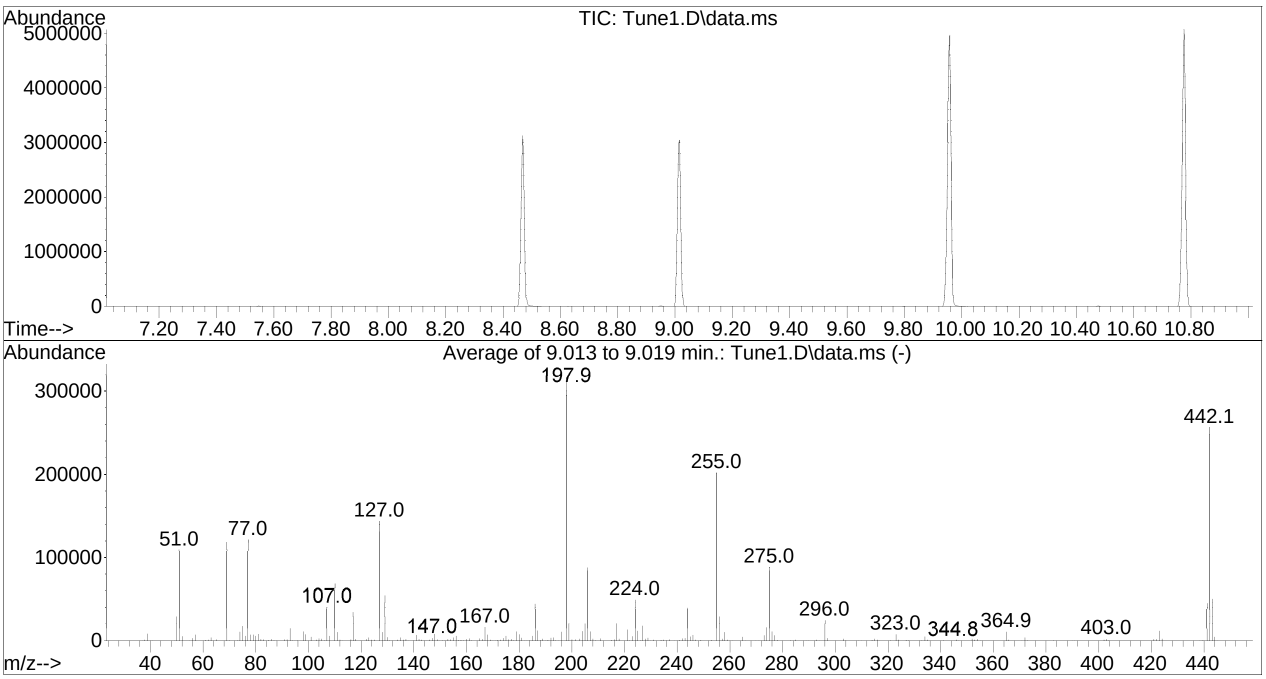
| | | Compound | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 91) | T | Phenanthrene | 1.655 | 1.246 | 1.214 | 1.134 | 1.019 | 1.085 | 1.072 | 1.100 | 1.119 | 1.183 | 16.11 |
| 92) | T | Anthracene | 1.572 | 1.147 | 1.191 | 1.098 | 1.017 | 1.082 | 1.065 | 1.115 | 1.153 | 1.160 | 14.06 |
| 93) | T | Carbazole | 1.327 | 1.038 | 1.109 | 1.013 | 0.956 | 1.020 | 1.001 | 1.037 | 1.079 | 1.064 | 10.14 |
| 94) | T | Di-n-butylphthalate | 1.417 | 1.094 | 1.207 | 1.105 | 1.064 | 1.185 | 1.204 | 1.275 | 1.309 | 1.207 | 9.42 |
| 95) | T | Fluoranthene | 1.943 | 1.443 | 1.460 | 1.351 | 1.250 | 1.321 | 1.315 | 1.344 | 1.374 | 1.422 | 14.44 |
| 96) | T | Benzidine | 0.815 | 0.657 | 0.698 | 0.696 | 0.708 | 0.801 | 0.818 | 0.853 | 0.900 | 0.772 | 10.90 |
| 97) | T | Pyrene | 2.028 | 1.546 | 1.562 | 1.479 | 1.353 | 1.429 | 1.397 | 1.427 | 1.456 | 1.520 | 13.29 |
| 98) | S | 4-Terphenyl-d14 | 1.660 | 1.139 | 1.202 | 1.092 | 1.007 | 1.066 | 1.052 | 1.085 | 1.114 | 1.157 | 16.95 |
| 99) | T | Butyl benzyl phthalate | 0.567 | 0.415 | 0.479 | 0.447 | 0.453 | 0.520 | 0.541 | 0.594 | 0.635 | 0.517 | 14.34 |
| 100) | I | IS2_Phenanthrene-d10 | ----------------ISTD-------------------- | | | | | | | | | | |
| 101) | T | Diphenamid | 0.347 | 0.380 | 0.392 | 0.377 | 0.390 | 0.434 | 0.456 | 0.494 | 0.474 | 0.416 | 12.13 |
| 102) | I | IS3_Phenanthrene-d10 | ----------------ISTD-------------------- | | | | | | | | | | |
| 103) | T | n-Octadecane | 0.279 | 0.354 | 0.355 | 0.289 | 0.309 | 0.332 | 0.347 | 0.369 | 0.369 | 0.334 | 10.10 |
| 104) | T | Parathion | | | 0.076 | 0.062 | 0.069 | 0.074 | 0.086 | 0.106 | 0.115 | *Q | 0.9978 |
| 105) | T | 3,3'-Dimethylbenzidine | | | | 0.425 | 0.542 | 0.649 | 0.734 | 0.845 | 0.870 | *L | 0.9972 |
| 106) | I | IS1_Chrysene-d12 | ----------------ISTD-------------------- | | | | | | | | | | |
| 107) | T | Benzo[a]anthracene | 1.869 | 1.383 | 1.408 | 1.283 | 1.164 | 1.251 | 1.262 | 1.278 | 1.301 | 1.355 | 15.16 |
| 108) | T | 3,3'-Dichlorobenzidine | 0.587 | 0.439 | 0.489 | 0.467 | 0.455 | 0.503 | 0.519 | 0.533 | 0.552 | 0.505 | 9.52 |
| 109) | T | Chrysene | 1.959 | 1.373 | 1.454 | 1.290 | 1.162 | 1.224 | 1.199 | 1.230 | 1.250 | 1.349 | 18.23 |
| 110) | T | bis(2-Ethylhexyl)phthalate | 0.831 | 0.597 | 0.665 | 0.632 | 0.630 | 0.732 | 0.775 | 0.822 | 0.855 | 0.726 | 13.56 |
| 111) | T | Di-n-octylphthalate | 1.380 | 1.021 | 1.044 | 1.017 | 1.027 | 1.217 | 1.316 | 1.411 | 1.473 | 1.212 | 15.54 |
| 112) | T | Benzo(b)fluoranthene | 1.822 | 1.402 | 1.469 | 1.372 | 1.282 | 1.313 | 1.333 | 1.348 | 1.437 | 1.420 | 11.43 |
| 113) | T | Benzo(k)fluoranthene | 1.743 | 1.264 | 1.425 | 1.314 | 1.209 | 1.355 | 1.362 | 1.367 | 1.409 | 1.383 | 10.93 |
| 114) | T | Benzo(a)pyrene | 1.495 | 1.196 | 1.246 | 1.206 | 1.127 | 1.232 | 1.262 | 1.289 | 1.349 | 1.267 | 8.34 |
| 115) | I | IS1_Perylene-d12 | ----------------ISTD-------------------- | | | | | | | | | | |
| 116) | T | Indeno(1,2,3-cd)pyrene | 1.598 | 1.131 | 1.193 | 1.086 | 1.057 | 1.169 | 1.203 | 1.283 | 1.387 | 1.234 | 13.71 |
| 117) | T | Dibenzo[a,h]anthracene | 1.503 | 1.130 | 1.213 | 1.140 | 1.076 | 1.169 | 1.186 | 1.217 | 1.281 | 1.213 | 10.21 |
| 118) | T | Benzo(g,h,i)perylene | 1.547 | 1.172 | 1.230 | 1.097 | 1.024 | 1.118 | 1.137 | 1.171 | 1.234 | 1.192 | 12.43 |

(#) = Out of Range

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : Tune1.D
Acq On : 5 Nov 2024 4:36 pm
Operator : Dakota:HNY
Sample : Tune1 Lot # 11144
Misc : WG1994500
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Nov 11 15:34:18 2024



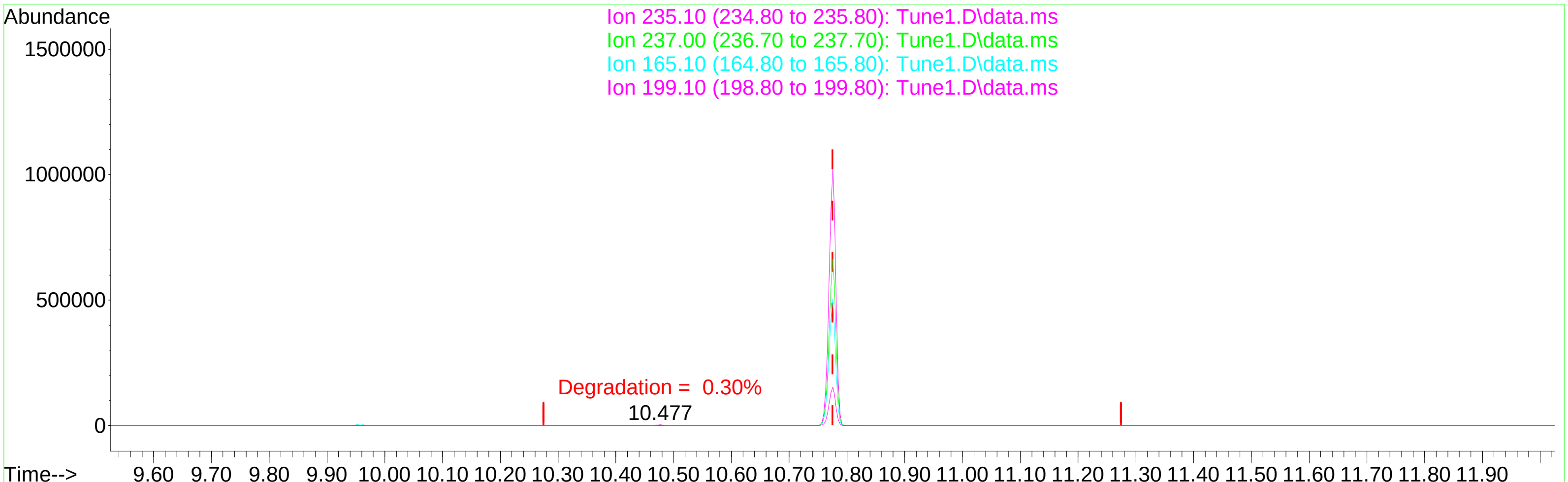

Spectrum Information: Average of 9.013 to 9.019 min.

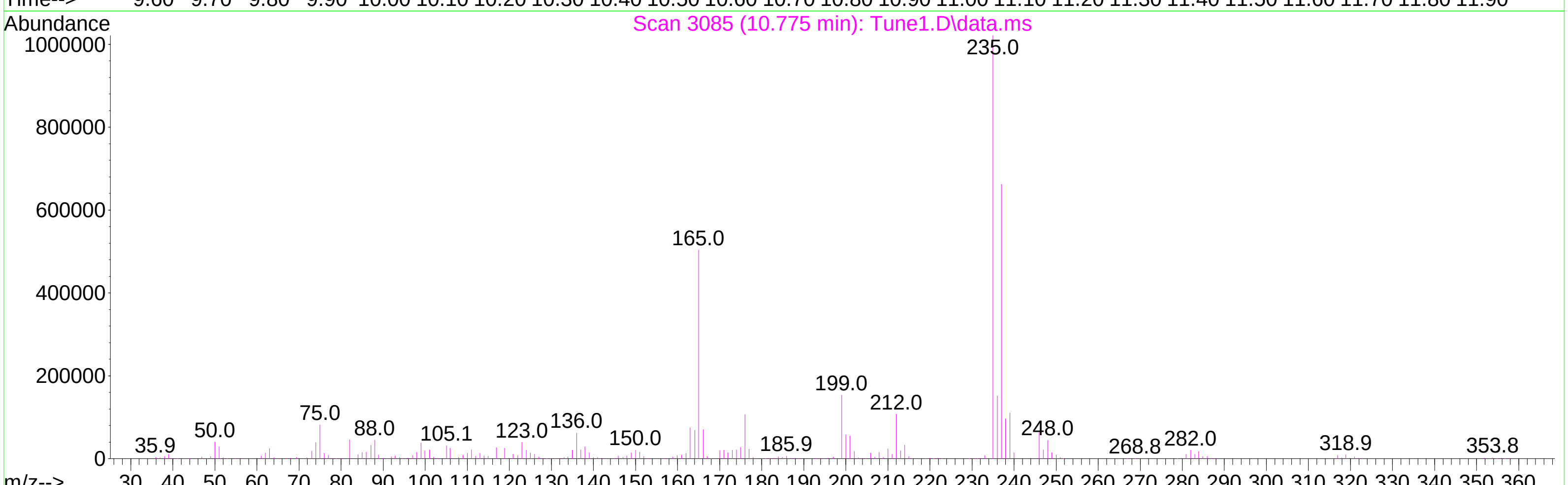
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 34.4 | 108867 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 69 | 69 | 100 | 100 | 100.0 | 118323 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 688 | PASS |
| 127 | 198 | 10 | 80 | 45.2 | 143328 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 316843 | PASS |
| 199 | 198 | 5 | 9 | 6.5 | 20619 | PASS |
| 275 | 198 | 10 | 60 | 27.8 | 88232 | PASS |
| 365 | 198 | 1 | 100 | 3.3 | 10554 | PASS |
| 441 | 442 | 0.01 | 24 | 17.4 | 44621 | PASS |
| 442 | 198 | 50 | 100 | 80.8 | 256128 | PASS |
| 443 | 442 | 15 | 24 | 19.7 | 50387 | PASS |

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : Tune1.D
Acq On : 5 Nov 2024 4:36 pm
Operator : Dakota:HNY
Sample : Tune1 Lot # 11144
Misc : WG1994500
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Nov 05 18:26:55 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 01 13:11:54 2024
Response via : Initial Calibration




CHROMtools™ [Tune1 Lot # 11144]

(6) DDT (T)

10.775min (+ 0.000) 139.61

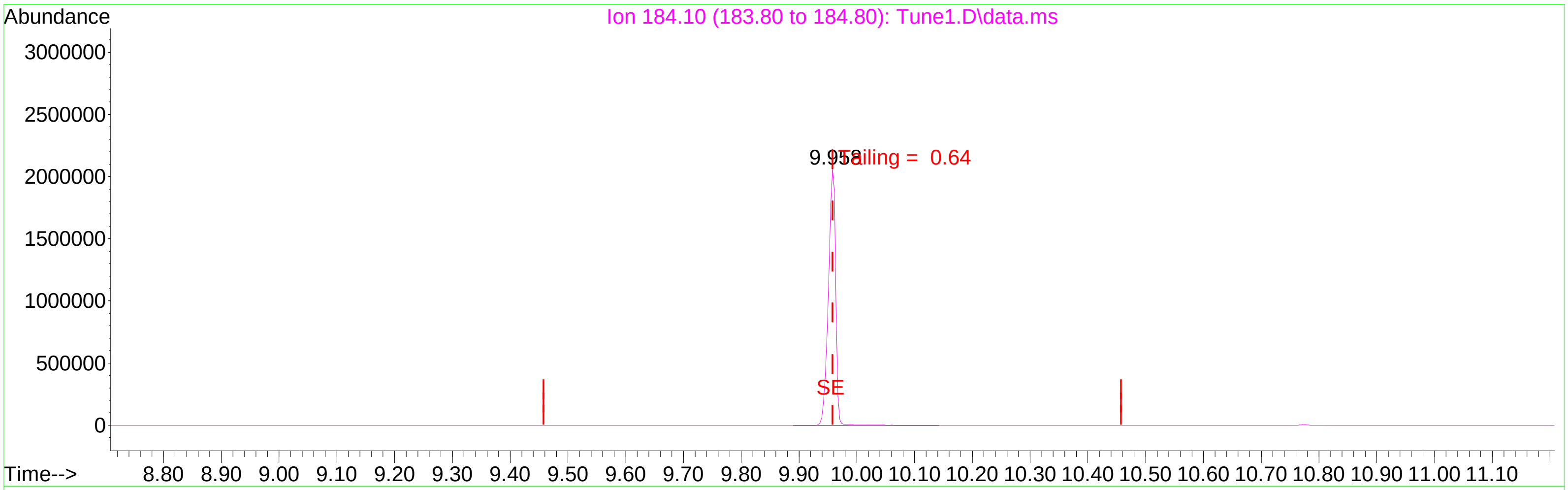
response 851056

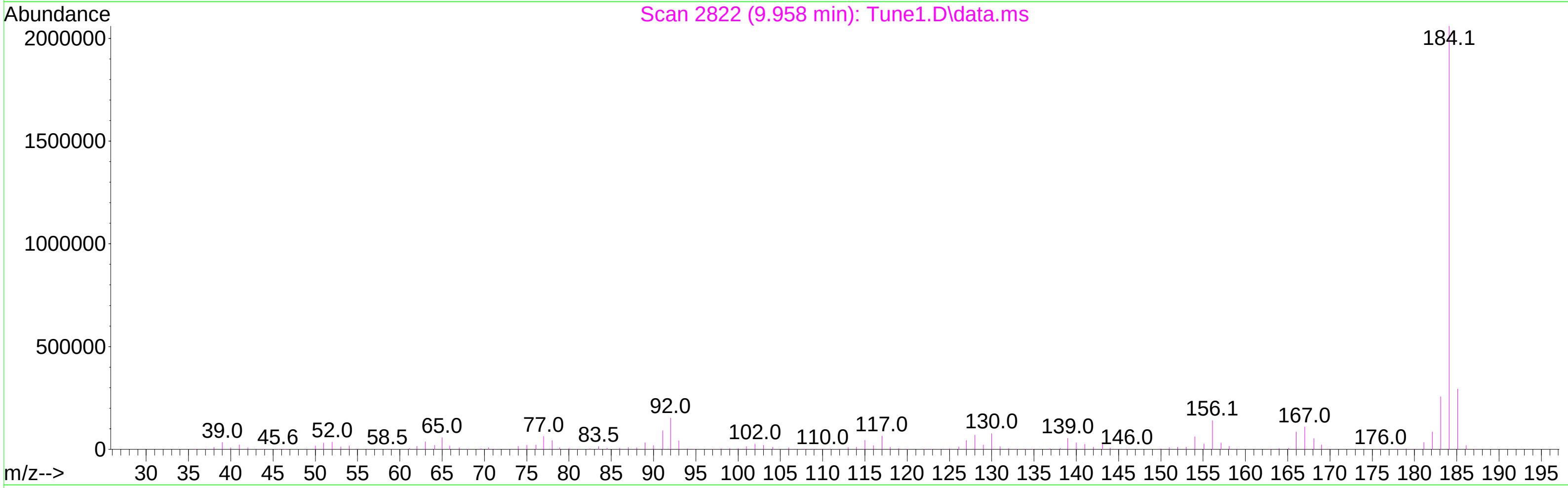
| Ion | Exp% | Act% |
|---|---|---|
| 235.10 | 100.00 | 100.00 |
| 237.00 | 63.90 | 64.29 |
| 165.10 | 48.70 | 47.50 |
| 199.10 | 15.80 | 14.59 |

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : Tune1.D
Acq On : 5 Nov 2024 4:36 pm
Operator : Dakota:HNY
Sample : Tune1 Lot # 11144
Misc : WG1994500
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Nov 05 18:26:55 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 01 13:11:54 2024
Response via : Initial Calibration




CHROMtools™ [Tune1 Lot # 11144]

(3) Benzidine (T)

9.958min (+ 0.000) 176.60

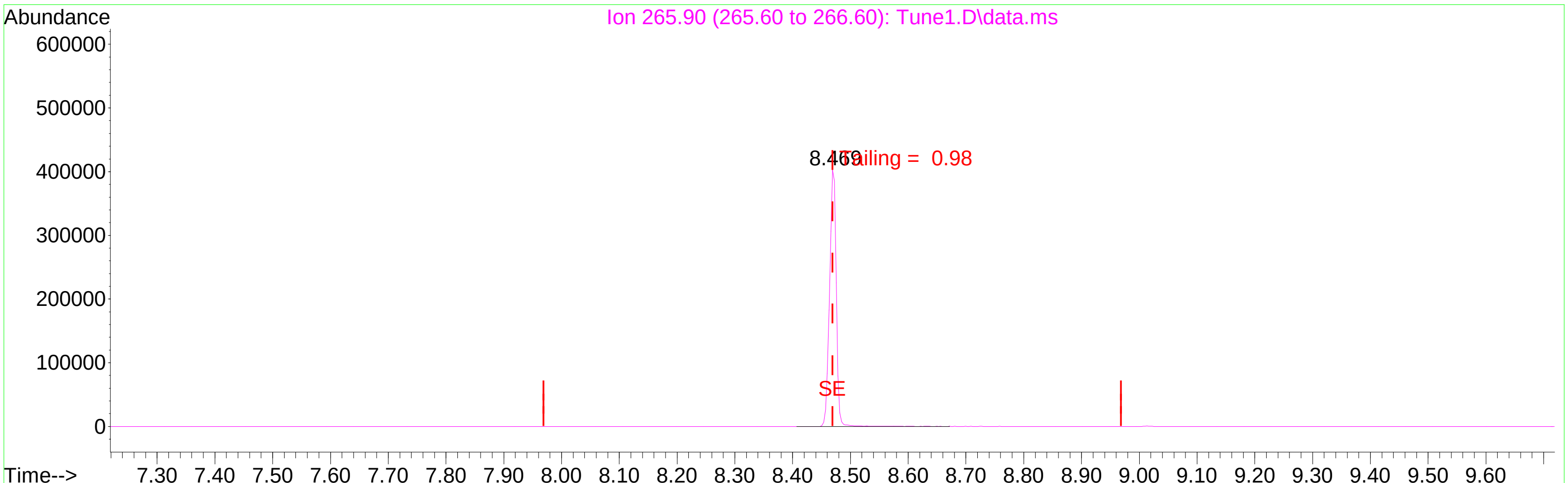
response 1797793

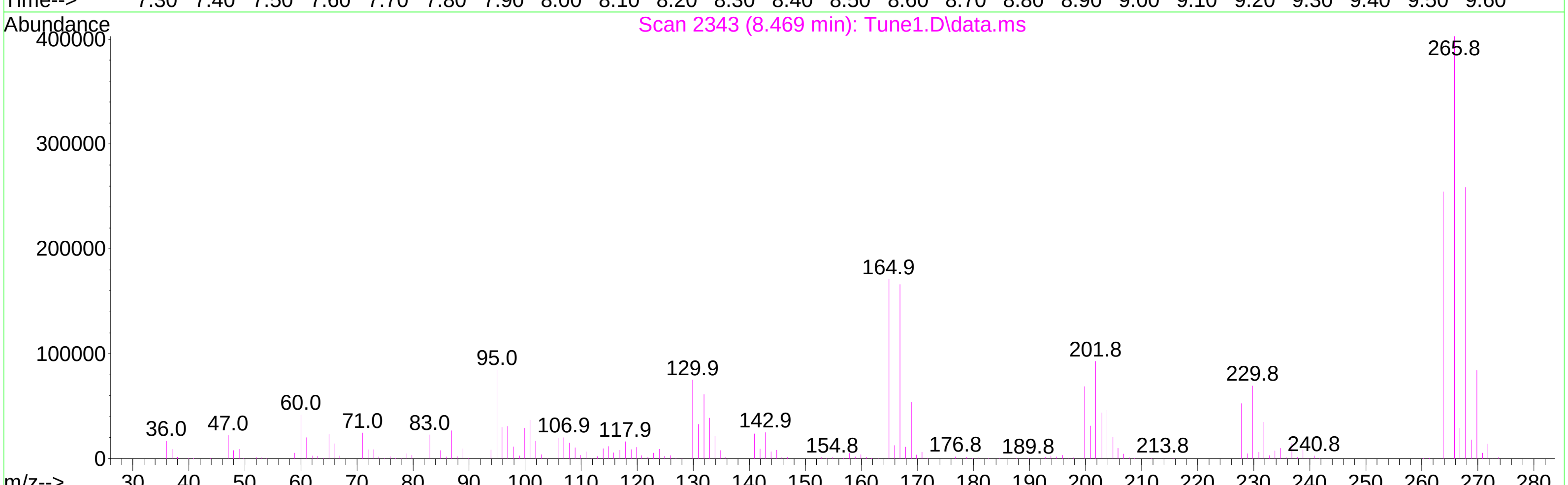
| Ion | Exp% | Act% |
|---|---|---|
| 184.10 | 100.00 | 100.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : Tune1.D
Acq On : 5 Nov 2024 4:36 pm
Operator : Dakota:HNY
Sample : Tune1 Lot # 11144
Misc : WG1994500
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Nov 05 18:26:55 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 01 13:11:54 2024
Response via : Initial Calibration




CHROMtools™ [Tune1 Lot # 11144]

(1) Pentachlorophenol (T)

8.469min (+ 0.000) 155.17

response 325922

| 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\241105RVTICAL\
Data File : ABNL9.D
Acq On    :  5 Nov 2024   4:59 pm
Operator  : Dakota:HNY
Sample    : IL2,32,,ABNL50 Lot# 11111
Misc      : WG1994500
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Nov 06 09:27:38 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List     : ABNical - ABN ical sublist

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) IS1_1,4-Dichlorobenzen...   4.286  152     30652     4.000 ug/ml    0.00
   Standard Area 1 = 28960                Recovery   =  105.84%
37) IS1_Naphthalene-d8          5.523  136    115575     4.000 ug/ml  # 0.00
   Standard Area 1 = 107558                Recovery   =  107.45%
65) IS1_Acenaphthene-d10        7.217  164     76687     4.000 ug/ml    0.00
   Standard Area 1 = 69553                Recovery   =  110.26%
90) IS1_Phenanthrene-d10        8.628  188    166987     4.000 ug/ml    0.00
   Standard Area 1 = 149813                Recovery   =  111.46%
106) IS1_Chrysene-d12          11.204  240    194641     4.000 ug/ml    0.01
   Standard Area 1 = 173036                Recovery   =  112.49%
115) IS1_Perylene-d12          12.615  264    225226     4.000 ug/ml    0.00
   Standard Area 1 = 203359                Recovery   =  110.75%

 System Monitoring Compounds
 4) 2-Fluorophenol              2.999  112    426850    59.194 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   = 2959.70%#
 7) Phenol-d6                   3.997   99    522918    56.419 ug/ml   0.01
   Spiked Amount      2.000   Range  15 - 110    Recovery   = 2820.95%#
19) Nitrobenzene-d5             4.836   82    509012    60.281 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   = 6028.10%#
48) 2-Fluorobiphenyl            6.598  172   1397973    47.353 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   = 4735.30%#
81) 2,4,6-Tribromophenol        7.978  330    318182    63.648 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   = 3182.40%#
98) 4-Terphenyl-d14            10.197  244   2326146    51.642 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   = 5164.20%#

 Target Compounds                                                 Qvalue
 2) n-Nitrosodimethylamine      1.600   74     259400     52.853 ug/ml#    81
 3) Pyridine                    1.628   79     428290M4   55.731 ug/ml
 5) Aniline                     3.972   93     640203     53.323 ug/ml     97
 6) 2-Chlorophenol              4.084  128     503520     57.731 ug/ml#    89
 8) Phenol                      4.009   94     570150     52.586 ug/ml     95
 9) Bis(2-chloroethyl)ether     4.062   93     397399     51.752 ug/ml     97
10) 1,3-Dichlorobenzene         4.227  146     613947     47.830 ug/ml     94
11) 1,4-Dichlorobenzene         4.301  146     625718     49.989 ug/ml     94
12) 1,2-Dichlorobenzene         4.447  146     606587     50.459 ug/ml     94
13) Benzyl alcohol              4.457   79     404093     59.695 ug/ml     99
14) Bis(2-chloroisopropyl)...   4.593   45     686842     43.928 ug/ml#    58
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL9.D
Acq On : 5 Nov 2024 4:59 pm
Operator : Dakota:HNY
Sample : IL2,32,,ABNL50 Lot# 11111
Misc : WG1994500
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 06 09:27:38 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 15) 2-Methylphenol | 4.593 | 108 | 432836 | 56.676 ug/ml | 99 |
| 16) Hexachloroethane | 4.774 | 117 | 235552 | 51.801 ug/ml# | 50 |
| 17) n-Nitrosodi-n-propylamine | 4.730 | 70 | 348350 | 54.578 ug/ml# | 88 |
| 18) 3-Methylphenol/4-Methy... | 4.758 | 108 | 474628 | 58.576 ug/ml | 98 |
| 20) Nitrobenzene | 4.855 | 77 | 508075 | 56.813 ug/ml | 99 |
| 21) Isophorone | 5.103 | 82 | 932214 | 56.512 ug/ml | 95 |
| 22) 2-Nitrophenol | 5.168 | 139 | 276353 | 73.081 ug/ml# | 86 |
| 23) 2,4-Dimethylphenol | 5.265 | 107 | 455183 | 59.441 ug/ml | 98 |
| 24) Bis(2-chloroethoxy)met... | 5.346 | 93 | 555844 | 53.062 ug/ml# | 95 |
| 25) 2,4-Dichlorophenol | 5.414 | 162 | 535919 | 56.225 ug/ml# | 93 |
| 26) 1,2,4-Trichlorobenzene | 5.482 | 180 | 617065 | 49.088 ug/ml | 96 |
| 38) Naphthalene | 5.545 | 128 | 1563409 | 50.438 ug/ml | 99 |
| 39) Benzoic Acid | 5.448 | 105 | 403452 | 57.603 ug/ml | 94 |
| 40) 4-Chloroaniline | 5.625 | 65 | 180490 | 44.567 ug/ml# | 66 |
| 41) Hexachlorobutadiene | 5.697 | 225 | 390074 | 48.367 ug/ml | 99 |
| 42) p-Chloro-m-cresol | 6.132 | 107 | 455050 | 56.560 ug/ml | 90 |
| 43) 2-Methylnaphthalene | 6.222 | 142 | 1101989 | 50.436 ug/ml | 95 |
| 44) 1-Methylnaphthalene | 6.312 | 115 | 355748 | 49.874 ug/ml | 94 |
| 45) Hexachlorocyclopentadiene | 6.390 | 237 | 448866 | 57.912 ug/ml | 98 |
| 46) 2,4,6-Trichlorophenol | 6.514 | 196 | 461815 | 54.022 ug/ml | 99 |
| 47) 2,4,5-Trichlorophenol | 6.542 | 196 | 501540 | 53.375 ug/ml | 99 |
| 49) 2-Chloronaphthalene | 6.682 | 162 | 1232869 | 48.247 ug/ml | 93 |
| 50) 2-Nitroaniline | 6.806 | 138 | 375805 | 64.681 ug/ml# | 76 |
| 51) 1,4-Dinitrobenzene | 6.940 | 168 | 176371 | 60.844 ug/ml | 79 |
| 52) 1,3-Dinitrobenzene | 7.015 | 168 | 197913 | 57.416 ug/ml# | 1 |
| 53) Dimethyl phthalate | 7.021 | 163 | 1441304 | 47.423 ug/ml# | 97 |
| 54) Acenaphthylene | 7.077 | 152 | 1857454 | 49.980 ug/ml | 98 |
| 55) 2,6-Dinitrotoluene | 7.055 | 165 | 311315 | 60.836 ug/ml# | 75 |
| 56) 1,2-Dinitrobenzene | 7.099 | 168 | 114969 | 57.322 ug/ml | 96 |
| 66) 3-Nitroaniline | 7.207 | 138 | 334091 | 65.269 ug/ml# | 84 |
| 67) Acenaphthene | 7.248 | 154 | 1075382 | 50.509 ug/ml | 89 |
| 68) 2,4-Dinitrophenol | 7.307 | 184 | 216833 | 65.280 ug/ml# | 81 |
| 69) Dibenzofuran | 7.419 | 168 | 1807087 | 49.044 ug/ml# | 81 |
| 70) 2,4-Dinitrotoluene | 7.437 | 165 | 444663 | 62.937 ug/ml# | 75 |
| 71) 4-Nitrophenol | 7.413 | 65 | 261902 | 64.521 ug/ml# | 1 |
| 72) 2,3,5,6-Tetrachlorophenol | 7.512 | 232 | 460699 | 61.758 ug/ml | 99 |
| 73) 2,3,4,6-Tetrachlorophenol | 7.552 | 232 | 441598 | 60.168 ug/ml | 98 |
| 74) Diethyl phthalate | 7.702 | 149 | 1504708 | 51.958 ug/ml | 98 |
| 75) Fluorene | 7.745 | 166 | 1436151 | 49.717 ug/ml | 92 |
| 76) 4-Chlorophenyl phenyl ... | 7.767 | 204 | 730405 | 48.977 ug/ml# | 86 |

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL9.D
Acq On : 5 Nov 2024 4:59 pm
Operator : Dakota:HNY
Sample : IL2,32,,ABNL50 Lot# 11111
Misc : WG1994500
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 06 09:27:38 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 77) 4-Nitroaniline | 7.801 | 138 | 342396 | 60.275 ug/ml# | 69 |
| 78) 4,6-Dinitro-o-cresol | 7.829 | 198 | 287986 | 56.625 ug/ml# | 56 |
| 79) NDPA/DPA | 7.891 | 169 | 1246099 | 49.971 ug/ml | 93 |
| 80) Azobenzene | 7.919 | 77 | 1244414 | 53.600 ug/ml | 98 |
| 82) 4-Bromophenyl phenyl e... | 8.233 | 248 | 495260M3 | 52.189 ug/ml | |
| 83) Hexachlorobenzene | 8.277 | 284 | 628621 | 52.365 ug/ml# | 80 |
| 84) Pentachlorophenol | 8.472 | 266 | 435993 | 66.782 ug/ml | 99 |
| 91) Phenanthrene | 8.653 | 178 | 2336584 | 49.387 ug/ml | 99 |
| 92) Anthracene | 8.702 | 178 | 2406283 | 51.441 ug/ml | 98 |
| 93) Carbazole | 8.876 | 167 | 2253274 | 51.023 ug/ml | 97 |
| 94) Di-n-butylphthalate | 9.277 | 149 | 2732871 | 56.111 ug/ml# | 98 |
| 95) Fluoranthene | 9.793 | 202 | 2867925 | 48.973 ug/ml# | 92 |
| 96) Benzidine | 9.955 | 184 | 1878693 | 56.269 ug/ml# | 94 |
| 97) Pyrene | 10.002 | 202 | 3038413 | 48.767 ug/ml | 98 |
| 99) Butyl benzyl phthalate | 10.716 | 149 | 1326004 | 63.789 ug/ml# | 82 |
| 107) Benzo(a)anthracene | 11.195 | 228 | 3166019 | 49.297 ug/ml | 98 |
| 108) 3,3'-Dichlorobenzidine | 11.208 | 252 | 1342833 | 57.018 ug/ml# | 96 |
| 109) Chrysene | 11.236 | 228 | 3040984 | 49.111 ug/ml | 97 |
| 110) Bis(2-ethylhexyl)phtha... | 11.341 | 149 | 2080032 | 61.018 ug/ml# | 89 |
| 111) Di-n-octylphthalate | 12.003 | 149 | 3584357 | 63.929 ug/ml# | 72 |
| 112) Benzo(b)fluoranthene | 12.270 | 252 | 3497162 | 53.103 ug/ml# | 93 |
| 113) Benzo(k)fluoranthene | 12.302 | 252 | 3427673M3 | 52.799 ug/ml | |
| 114) Benzo(a)pyrene | 12.575 | 252 | 3281306M2 | 54.636 ug/ml | |
| 116) Indeno(1,2,3-cd)pyrene | 13.570 | 276 | 3906250 | 56.698 ug/mL# | 89 |
| 117) Dibenzo(a,h)anthracene | 13.595 | 278 | 3606363 | 53.295 ug/ml# | 89 |
| 118) Benzo(ghi)perylene | 13.784 | 276 | 3474271 | 53.027 ug/ml# | 86 |

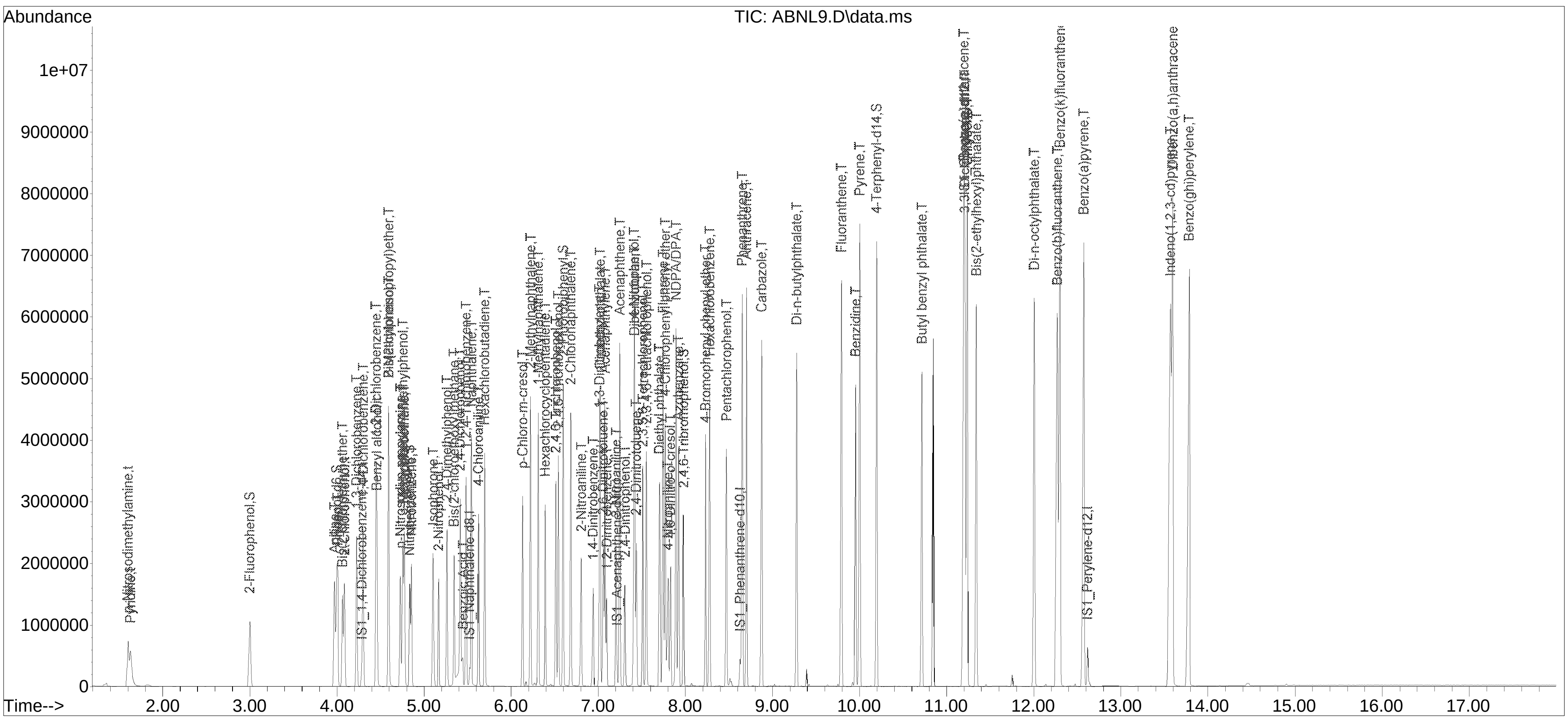
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL9.D
Acq On    :  5 Nov 2024   4:59 pm
Operator  : Dakota:HNY
Sample    : IL2,32,,ABNL50 Lot# 11111
Misc      : WG1994500
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Nov 06 09:27:38 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

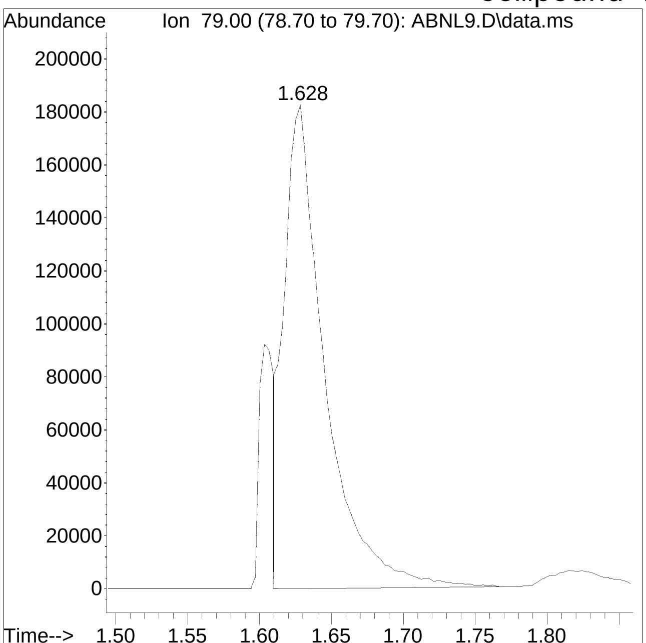
Sub List     : ABNical - ABN ical sublistVTICAL\ABNL6.D•

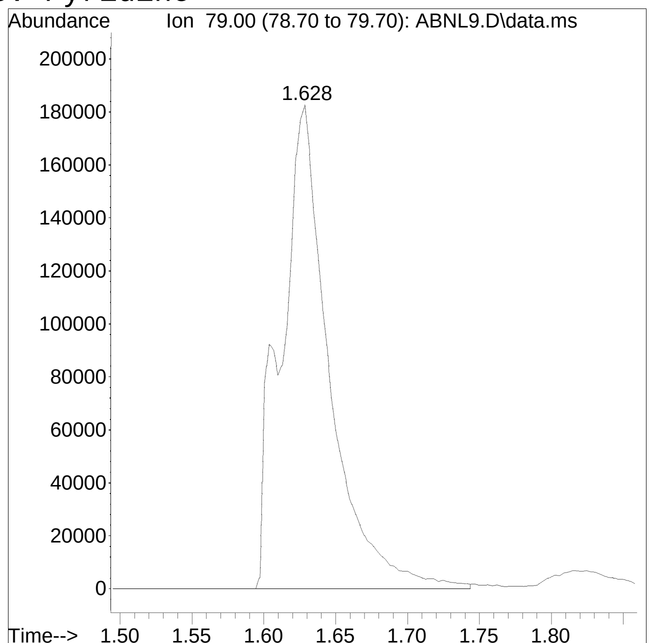


# Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL9.D                      Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  4:59 pm           Instrument  : Dakota
Sample      : IL2,32,,ABNL50 Lot# 11111 Quant Date  : 11/6/2024  8:36 am
```

Compound #3: Pyridine



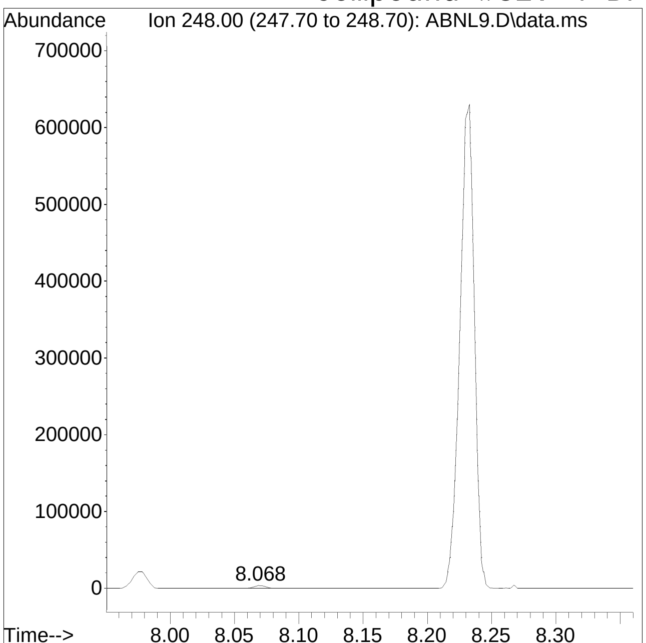

Original Peak Response = 361277    Manual Peak Response = 428290 M4

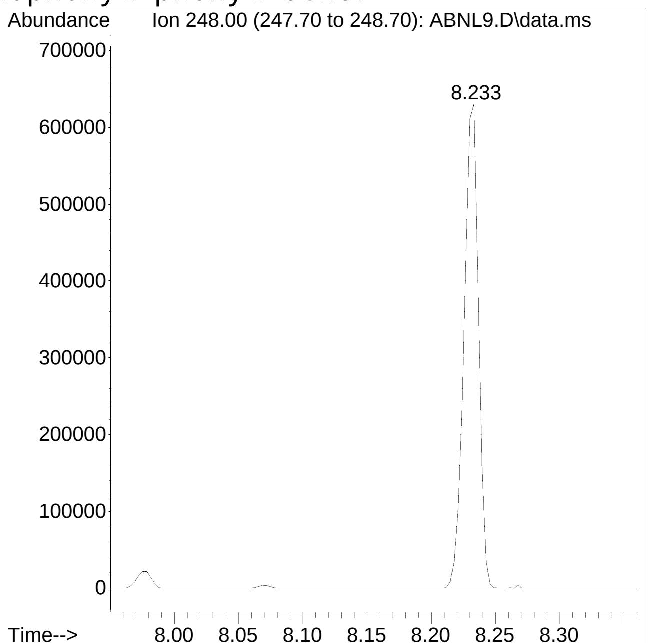
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ABNL9.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 4:59 pm Instrument : Dakota
Sample : IL2,32,,ABNL50 Lot# 11111 Quant Date : 11/6/2024 8:36 am

Compound #82: 4-Bromophenyl phenyl ether



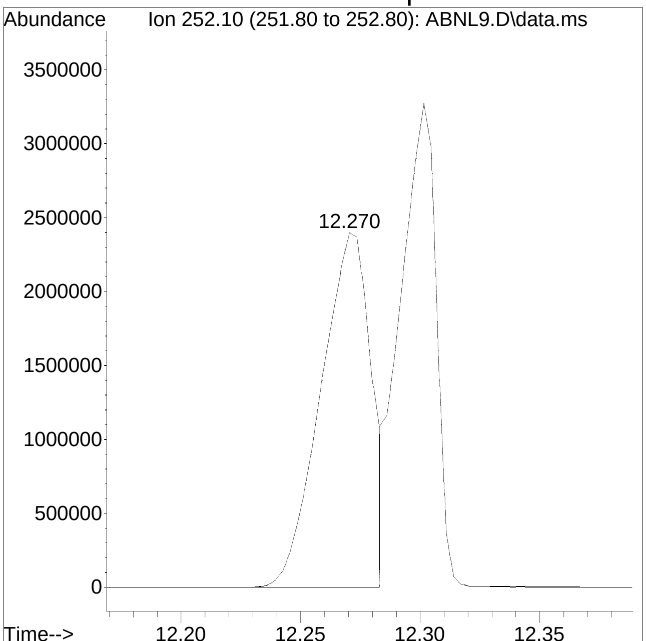



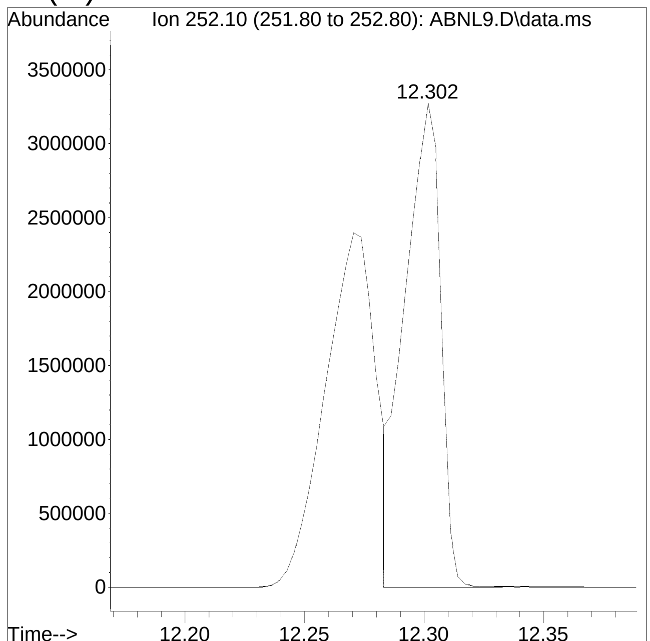

Original Peak Response = 2880 Manual Peak Response = 495260 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ABNL9.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 4:59 pm Instrument : Dakota
Sample : IL2,32,,ABNL50 Lot# 11111 Quant Date : 11/6/2024 8:36 am

Compound #113: Benzo(k)fluoranthene



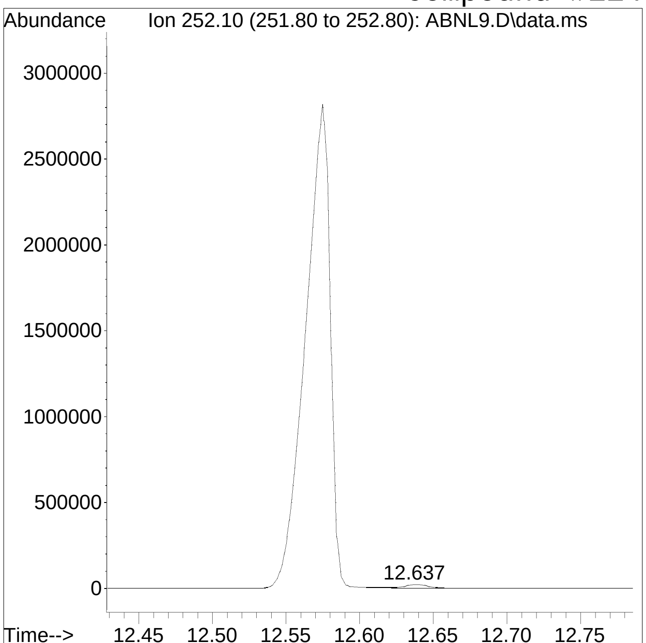



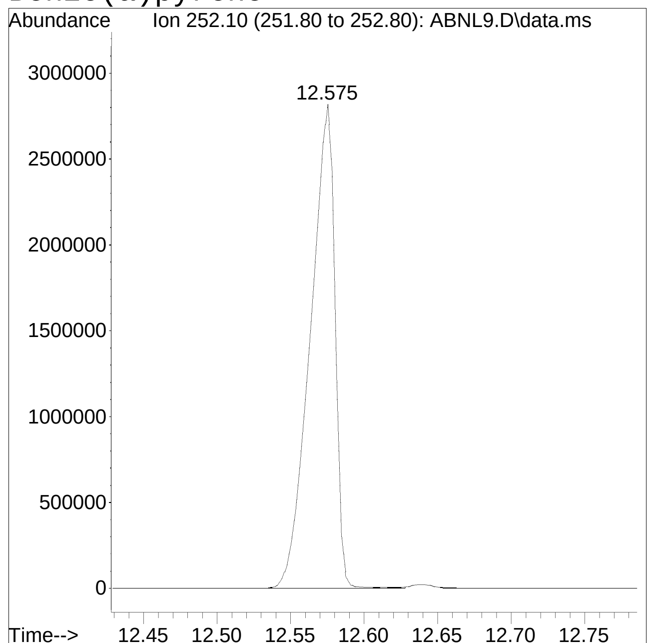

Original Peak Response = 3497162 Manual Peak Response = 3427673 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL9.D                      Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  4:59 pm           Instrument  : Dakota
Sample      : IL2,32,,ABNL50 Lot# 11111 Quant Date  : 11/6/2024  8:36 am
```

Compound #114: Benzo(a)pyrene




Original Peak Response = 25864        Manual Peak Response = 3281306 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL8.D
Acq On : 5 Nov 2024 5:23 pm
Operator : Dakota:HNY
Sample : IL3,32,,ABNL25 Lot# 11112
Misc : WG1994500
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 09:26:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) IS1_1,4-Dichlorobenzen... | 4.286 | 152 | 32882 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 28960 | | | Recovery = | 113.54% | |
| 37) IS1_Naphthalene-d8 | 5.523 | 136 | 122219 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 107558 | | | Recovery = | 113.63% | |
| 65) IS1_Acenaphthene-d10 | 7.213 | 164 | 80019 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 69553 | | | Recovery = | 115.05% | |
| 90) IS1_Phenanthrene-d10 | 8.625 | 188 | 170526 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 149813 | | | Recovery = | 113.83% | |
| 106) IS1_Chrysene-d12 | 11.198 | 240 | 195039 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 173036 | | | Recovery = | 112.72% | |
| 115) IS1_Perylene-d12 | 12.612 | 264 | 222671 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 203359 | | | Recovery = | 109.50% | |

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **System Monitoring Compounds** | | | | | |
| 4) 2-Fluorophenol | 2.999 | 112 | 212455 | 27.464 ug/ml | 0.00 |
| Spiked Amount 2.000 | Range 15 - 110 | | Recovery | = 1373.20%# | |
| 7) Phenol-d6 | 3.990 | 99 | 268911 | 27.046 ug/ml | 0.00 |
| Spiked Amount 2.000 | Range 15 - 110 | | Recovery | = 1352.30%# | |
| 19) Nitrobenzene-d5 | 4.833 | 82 | 254511 | 28.097 ug/ml | 0.00 |
| Spiked Amount 1.000 | Range 30 - 130 | | Recovery | = 2809.70%# | |
| 48) 2-Fluorobiphenyl | 6.595 | 172 | 702587 | 22.505 ug/ml | 0.00 |
| Spiked Amount 1.000 | Range 30 - 130 | | Recovery | = 2250.50%# | |
| 81) 2,4,6-Tribromophenol | 7.972 | 330 | 149763 | 28.710 ug/ml | 0.00 |
| Spiked Amount 2.000 | Range 15 - 110 | | Recovery | = 1435.50%# | |
| 98) 4-Terphenyl-d14 | 10.194 | 244 | 1156113 | 25.134 ug/ml | 0.00 |
| Spiked Amount 1.000 | Range 30 - 130 | | Recovery | = 2513.40%# | |

| Compound | R.T. | QIon | Response | Conc Units | Qvalue |
|---|---|---|---|---|---|
| **Target Compounds** | | | | | |
| 2) n-Nitrosodimethylamine | 1.603 | 74 | 130982 | 24.878 ug/ml# | 80 |
| 3) Pyridine | 1.631 | 79 | 210509 | 25.535 ug/ml# | 60 |
| 5) Aniline | 3.969 | 93 | 320735 | 24.903 ug/ml | 97 |
| 6) 2-Chlorophenol | 4.081 | 128 | 255159 | 27.271 ug/ml# | 88 |
| 8) Phenol | 4.003 | 94 | 287124 | 24.686 ug/ml | 96 |
| 9) Bis(2-chloroethyl)ether | 4.059 | 93 | 204030 | 24.768 ug/ml | 98 |
| 10) 1,3-Dichlorobenzene | 4.227 | 146 | 310564 | 22.554 ug/ml | 94 |
| 11) 1,4-Dichlorobenzene | 4.301 | 146 | 314288 | 23.406 ug/ml | 94 |
| 12) 1,2-Dichlorobenzene | 4.447 | 146 | 305963 | 23.725 ug/ml | 94 |
| 13) Benzyl alcohol | 4.454 | 79 | 204562 | 28.170 ug/ml | 100 |
| 14) Bis(2-chloroisopropyl)... | 4.593 | 45 | 355071 | 21.169 ug/ml# | 60 |

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL8.D
Acq On : 5 Nov 2024 5:23 pm
Operator : Dakota:HNY
Sample : IL3,32,,ABNL25 Lot# 11112
Misc : WG1994500
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 09:26:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 15) 2-Methylphenol | 4.593 | 108 | 218784 | 26.705 | ug/ml | 98 |
| 16) Hexachloroethane | 4.774 | 117 | 117262 | 24.038 | ug/ml# | 50 |
| 17) n-Nitrosodi-n-propylamine | 4.724 | 70 | 178039 | 26.002 | ug/ml# | 88 |
| 18) 3-Methylphenol/4-Methy... | 4.752 | 108 | 239554 | 27.559 | ug/ml | 99 |
| 20) Nitrobenzene | 4.851 | 77 | 257804 | 26.872 | ug/ml | 99 |
| 21) Isophorone | 5.097 | 82 | 475439 | 26.867 | ug/ml | 95 |
| 22) 2-Nitrophenol | 5.168 | 139 | 138413 | 34.121 | ug/ml# | 86 |
| 23) 2,4-Dimethylphenol | 5.259 | 107 | 227762 | 27.726 | ug/ml | 99 |
| 24) Bis(2-chloroethoxy)met... | 5.342 | 93 | 287885 | 25.618 | ug/ml# | 95 |
| 25) 2,4-Dichlorophenol | 5.411 | 162 | 268517 | 26.260 | ug/ml# | 92 |
| 26) 1,2,4-Trichlorobenzene | 5.482 | 180 | 311284 | 23.084 | ug/ml | 96 |
| 38) Naphthalene | 5.541 | 128 | 793205 | 24.199 | ug/ml | 99 |
| 39) Benzoic Acid | 5.408 | 105 | 196632 | 27.424 | ug/ml | 94 |
| 40) 4-Chloroaniline | 5.622 | 65 | 90913 | 21.228 | ug/ml# | 66 |
| 41) Hexachlorobutadiene | 5.697 | 225 | 194721 | 22.832 | ug/ml | 99 |
| 42) p-Chloro-m-cresol | 6.129 | 107 | 227472 | 26.736 | ug/ml | 90 |
| 43) 2-Methylnaphthalene | 6.219 | 142 | 556861 | 24.101 | ug/ml | 96 |
| 44) 1-Methylnaphthalene | 6.309 | 115 | 176736 | 23.431 | ug/ml | 93 |
| 45) Hexachlorocyclopentadiene | 6.390 | 237 | 222494 | 27.145 | ug/ml | 100 |
| 46) 2,4,6-Trichlorophenol | 6.511 | 196 | 228866 | 25.317 | ug/ml | 97 |
| 47) 2,4,5-Trichlorophenol | 6.539 | 196 | 248308 | 24.989 | ug/ml | 99 |
| 49) 2-Chloronaphthalene | 6.682 | 162 | 619402 | 22.922 | ug/ml | 93 |
| 50) 2-Nitroaniline | 6.800 | 138 | 185396 | 30.174 | ug/ml# | 77 |
| 51) 1,4-Dinitrobenzene | 6.934 | 168 | 86479 | 28.212 | ug/ml | 81 |
| 52) 1,3-Dinitrobenzene | 7.008 | 168 | 98273M3 | 26.960 | ug/ml | |
| 53) Dimethyl phthalate | 7.011 | 163 | 727981 | 22.651 | ug/ml# | 97 |
| 54) Acenaphthylene | 7.071 | 152 | 939390 | 23.903 | ug/ml | 99 |
| 55) 2,6-Dinitrotoluene | 7.049 | 165 | 153890 | 28.438 | ug/ml# | 75 |
| 56) 1,2-Dinitrobenzene | 7.089 | 168 | 55846 | 26.330 | ug/ml# | 85 |
| 66) 3-Nitroaniline | 7.201 | 138 | 166040 | 31.088 | ug/ml# | 84 |
| 67) Acenaphthene | 7.245 | 154 | 538516 | 24.240 | ug/ml | 88 |
| 68) 2,4-Dinitrophenol | 7.297 | 184 | 103900 | 29.978 | ug/ml# | 82 |
| 69) Dibenzofuran | 7.412 | 168 | 916582 | 23.840 | ug/ml# | 84 |
| 70) 2,4-Dinitrotoluene | 7.431 | 165 | 216744 | 29.400 | ug/ml# | 77 |
| 71) 4-Nitrophenol | 7.403 | 65 | 127663 | 30.141 | ug/ml# | 1 |
| 72) 2,3,5,6-Tetrachlorophenol | 7.506 | 232 | 227154 | 29.182 | ug/ml | 98 |
| 73) 2,3,4,6-Tetrachlorophenol | 7.549 | 232 | 216190 | 28.230 | ug/ml | 98 |
| 74) Diethyl phthalate | 7.698 | 149 | 744890 | 24.650 | ug/ml | 99 |
| 75) Fluorene | 7.739 | 166 | 719758 | 23.879 | ug/ml | 92 |
| 76) 4-Chlorophenyl phenyl ... | 7.764 | 204 | 367884 | 23.641 | ug/ml# | 86 |

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL8.D
Acq On : 5 Nov 2024 5:23 pm
Operator : Dakota:HNY
Sample : IL3,32,,ABNL25 Lot# 11112
Misc : WG1994500
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 09:26:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

| | Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 77) | 4-Nitroaniline | 7.789 | 138 | 168641 | 28.451 ug/ml# | 77 |
| 78) | 4,6-Dinitro-o-cresol | 7.820 | 198 | 138975 | 26.395 ug/ml# | 56 |
| 79) | NDPA/DPA | 7.885 | 169 | 622751 | 23.934 ug/ml | 92 |
| 80) | Azobenzene | 7.916 | 77 | 627012 | 25.882 ug/ml | 98 |
| 82) | 4-Bromophenyl phenyl e... | 8.227 | 248 | 242429 | 24.482 ug/ml# | 81 |
| 83) | Hexachlorobenzene | 8.273 | 284 | 302652 | 24.162 ug/ml# | 80 |
| 84) | Pentachlorophenol | 8.469 | 266 | 205928 | 30.229 ug/ml | 98 |
| 91) | Phenanthrene | 8.649 | 178 | 1171950 | 24.257 ug/ml | 99 |
| 92) | Anthracene | 8.699 | 178 | 1188072 | 24.871 ug/ml | 98 |
| 93) | Carbazole | 8.873 | 167 | 1104845 | 24.499 ug/ml | 98 |
| 94) | Di-n-butylphthalate | 9.274 | 149 | 1359271 | 27.329 ug/ml# | 98 |
| 95) | Fluoranthene | 9.787 | 202 | 1432553 | 23.955 ug/ml# | 92 |
| 96) | Benzidine | 9.952 | 184 | 909574 | 26.677 ug/ml# | 94 |
| 97) | Pyrene | 9.995 | 202 | 1520824 | 23.903 ug/ml | 99 |
| 99) | Butyl benzyl phthalate | 10.710 | 149 | 633434 | 29.840 ug/ml# | 82 |
| 107) | Benzo(a)anthracene | 11.189 | 228 | 1557344 | 24.199 ug/ml | 98 |
| 108) | 3,3'-Dichlorobenzidine | 11.201 | 252 | 649490 | 27.522 ug/ml# | 96 |
| 109) | Chrysene | 11.226 | 228 | 1498919 | 24.158 ug/ml | 98 |
| 110) | Bis(2-ethylhexyl)phtha... | 11.338 | 149 | 1001664 | 29.324 ug/ml# | 89 |
| 111) | Di-n-octylphthalate | 11.997 | 149 | 1719798 | 30.611 ug/ml# | 72 |
| 112) | Benzo(b)fluoranthene | 12.261 | 252 | 1643646 | 24.907 ug/ml# | 93 |
| 113) | Benzo(k)fluoranthene | 12.289 | 252 | 1666923 | 25.624 ug/ml# | 93 |
| 114) | Benzo(a)pyrene | 12.563 | 252 | 1571883M2 | 26.120 ug/ml | |
| 116) | Indeno(1,2,3-cd)pyrene | 13.557 | 276 | 1785537 | 26.214 ug/mL# | 88 |
| 117) | Dibenzo(a,h)anthracene | 13.582 | 278 | 1693306 | 25.311 ug/ml# | 89 |
| 118) | Benzo(ghi)perylene | 13.769 | 276 | 1629094 | 25.150 ug/ml# | 86 |

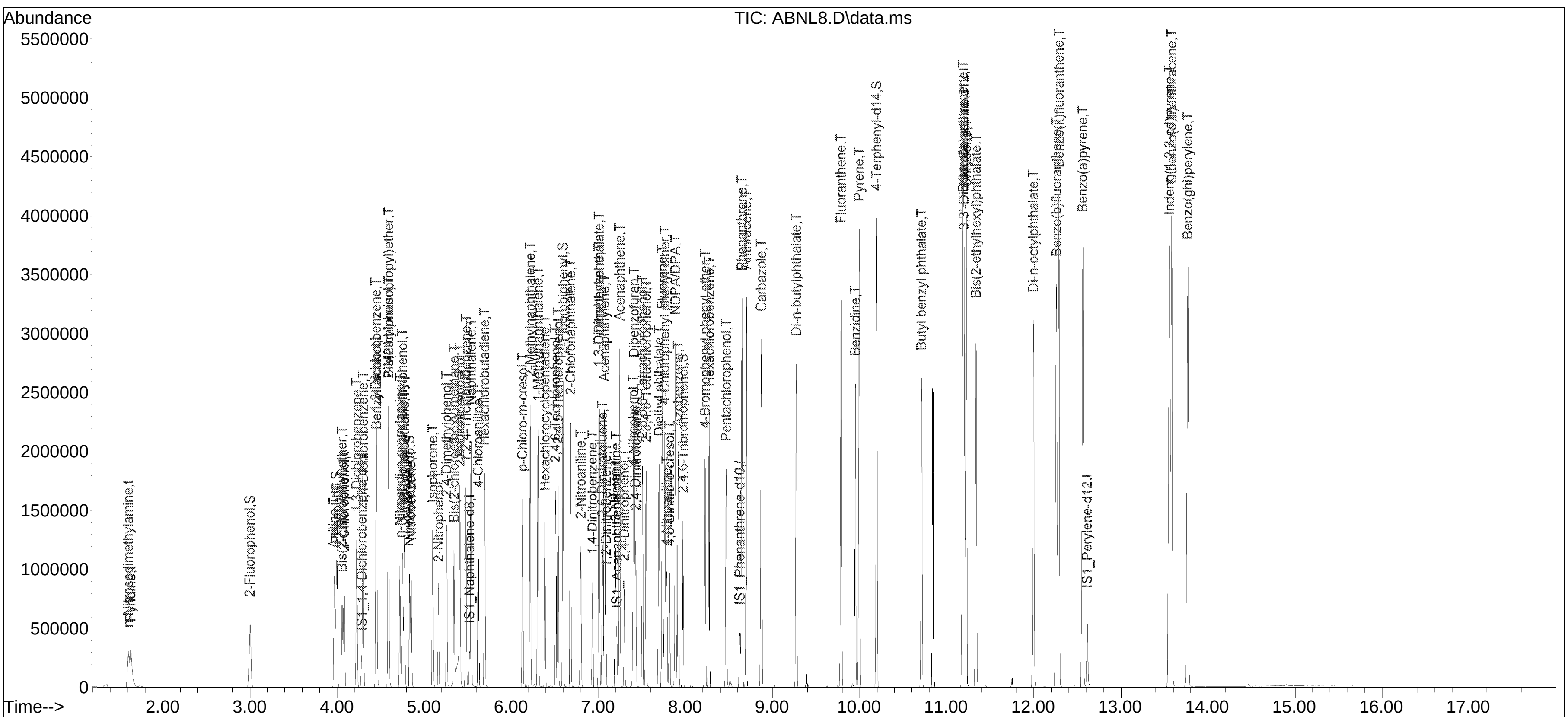
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL8.D
Acq On    :  5 Nov 2024   5:23 pm
Operator  : Dakota:HNY
Sample    : IL3,32,,ABNL25 Lot# 11112
Misc      : WG1994500
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Nov 06 09:26:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

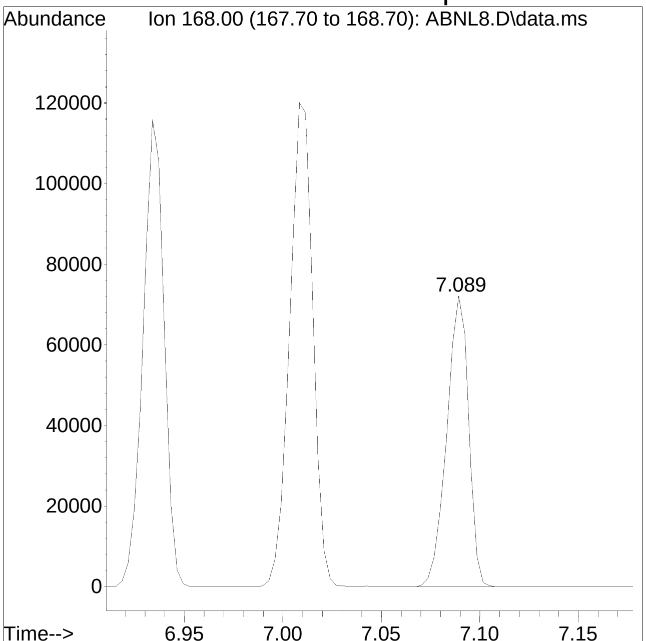
Sub List     : ABNical - ABN ical sublistVTICAL\ABNL6.D•

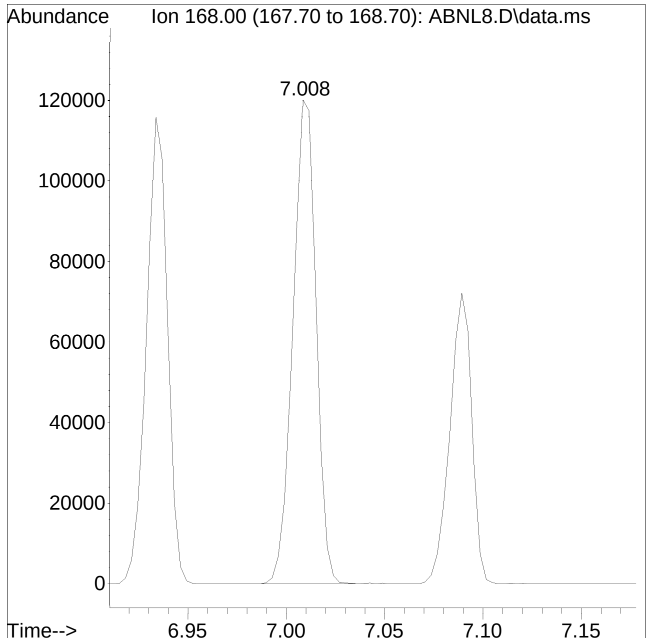


Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Method : FS241105RVT_Dakota.m
Data File : ABNL8.D
Operator : Dakota:HNY
Date Inj'd : 11/5/2024 5:23 pm
Instrument : Dakota
Sample : IL3,32,,ABNL25 Lot# 11112
Quant Date : 11/6/2024 8:36 am

Compound #52: 1,3-Dinitrobenzene




Original Peak Response = 55846

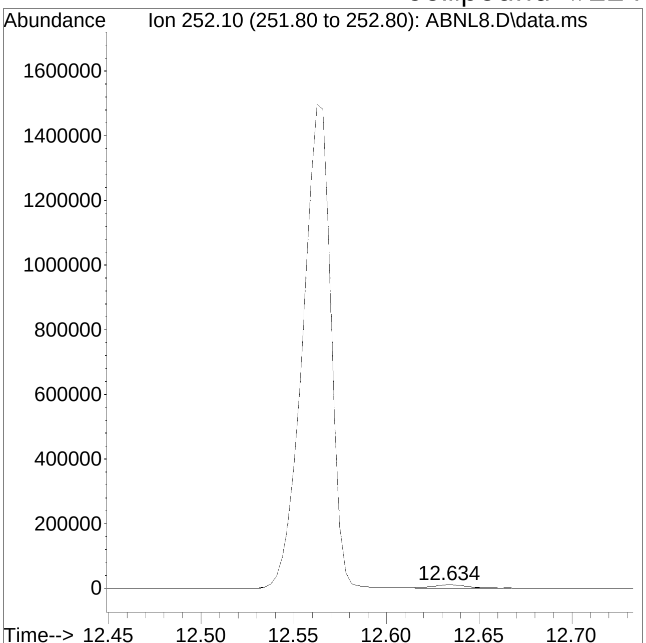
Manual Peak Response = 98273 M3

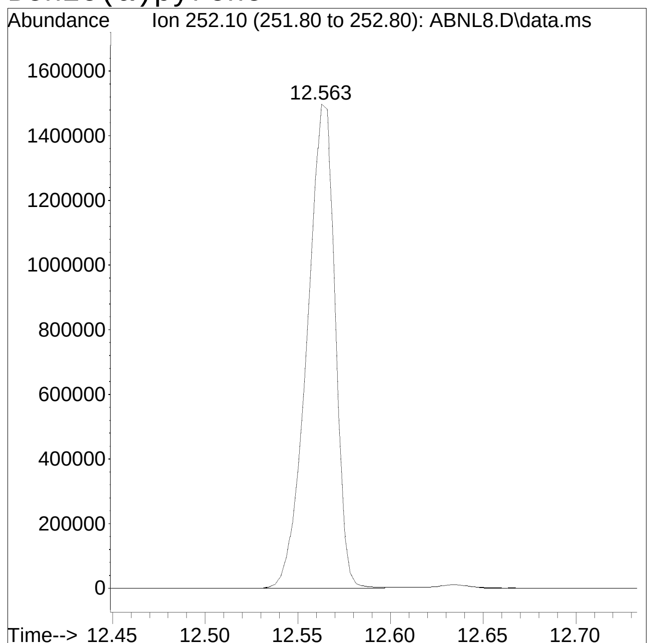
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL8.D                   Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  5:23 pm        Instrument  : Dakota
Sample      : IL3,32,,ABNL25 Lot# 11112 Quant Date  : 11/6/2024  8:36 am
```

Compound #114: Benzo(a)pyrene




Original Peak Response = 11510        Manual Peak Response = 1571883 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report    (QT Reviewed)

```
Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL7.D
Acq On    :  5 Nov 2024   5:46 pm
Operator  : Dakota:HNY
Sample    : IL4,32,,ABNL10 Lot# 11113
Misc      : WG1994500
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Nov 06 09:24:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List     : ABNical - ABN ical sublist

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 -------------------------------------------------------------------------
 Internal Standards
 1) IS1_1,4-Dichlorobenzen...   4.283  152     30017     4.000 ug/ml  # 0.00
   Standard Area 1 = 28960                 Recovery   =  103.65%
37) IS1_Naphthalene-d8          5.520  136    110693     4.000 ug/ml  # 0.00
   Standard Area 1 = 107558                 Recovery   =  102.91%
65) IS1_Acenaphthene-d10        7.210  164     71339     4.000 ug/ml    0.00
   Standard Area 1 = 69553                 Recovery   =  102.57%
90) IS1_Phenanthrene-d10        8.625  188    152962     4.000 ug/ml    0.00
   Standard Area 1 = 149813                 Recovery   =  102.10%
106) IS1_Chrysene-d12          11.192  240    173819     4.000 ug/ml    0.00
   Standard Area 1 = 173036                 Recovery   =  100.45%
115) IS1_Perylene-d12          12.609  264    202944     4.000 ug/ml    0.00
   Standard Area 1 = 203359                 Recovery   =   99.80%

 System Monitoring Compounds
 4) 2-Fluorophenol              2.999  112     75910    10.750 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =  537.50%#
 7) Phenol-d6                   3.987   99     95741    10.548 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =  527.40%#
19) Nitrobenzene-d5             4.833   82     89064    10.771 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   = 1077.10%#
48) 2-Fluorobiphenyl            6.592  172    249603     8.828 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =  882.80%#
81) 2,4,6-Tribromophenol        7.969  330     49268    10.594 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =  529.70%#
98) 4-Terphenyl-d14            10.191  244    402353     9.752 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =  975.20%#

 Target Compounds                                                  Qvalue
 2) n-Nitrosodimethylamine      1.597   74      46870      9.752 ug/ml#    80
 3) Pyridine                    1.628   79      77978     10.362 ug/ml#    59
 5) Aniline                     3.966   93     113575      9.660 ug/ml     96
 6) 2-Chlorophenol              4.077  128      91502     10.713 ug/ml#    88
 8) Phenol                      4.000   94     103024      9.703 ug/ml     95
 9) Bis(2-chloroethyl)ether     4.056   93      74057      9.848 ug/ml     96
10) 1,3-Dichlorobenzene         4.224  146     112322      8.936 ug/ml     94
11) 1,4-Dichlorobenzene         4.298  146     113494      9.259 ug/ml     94
12) 1,2-Dichlorobenzene         4.447  146     108571      9.223 ug/ml     93
13) Benzyl alcohol              4.450   79      69764     10.524 ug/ml    100
14) Bis(2-chloroisopropyl)...   4.593   45     128127      8.368 ug/ml#    60
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL7.D
Acq On : 5 Nov 2024 5:46 pm
Operator : Dakota:HNY
Sample : IL4,32,,ABNL10 Lot# 11113
Misc : WG1994500
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 06 09:24:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 15) 2-Methylphenol | 4.590 | 108 | 78768 | 10.532 ug/ml | 100 |
| 16) Hexachloroethane | 4.771 | 117 | 41863 | 9.401 ug/ml# | 51 |
| 17) n-Nitrosodi-n-propylamine | 4.721 | 70 | 62227 | 9.956 ug/ml# | 88 |
| 18) 3-Methylphenol/4-Methy... | 4.749 | 108 | 83179 | 10.483 ug/ml | 98 |
| 20) Nitrobenzene | 4.848 | 77 | 90914 | 10.381 ug/ml | 97 |
| 21) Isophorone | 5.094 | 82 | 163635 | 10.130 ug/ml | 94 |
| 22) 2-Nitrophenol | 5.165 | 139 | 46777 | 12.632 ug/ml# | 87 |
| 23) 2,4-Dimethylphenol | 5.259 | 107 | 80631 | 10.752 ug/ml | 99 |
| 24) Bis(2-chloroethoxy)met... | 5.339 | 93 | 101509 | 9.895 ug/ml# | 97 |
| 25) 2,4-Dichlorophenol | 5.408 | 162 | 93402 | 10.006 ug/ml# | 92 |
| 26) 1,2,4-Trichlorobenzene | 5.479 | 180 | 110668 | 8.990 ug/ml | 96 |
| 38) Naphthalene | 5.538 | 128 | 279417 | 9.412 ug/ml | 99 |
| 39) Benzoic Acid | 5.367 | 105 | 62503 | 10.680 ug/ml | 91 |
| 40) 4-Chloroaniline | 5.619 | 65 | 31494 | 8.120 ug/ml# | 65 |
| 41) Hexachlorobutadiene | 5.697 | 225 | 68910 | 8.921 ug/ml | 100 |
| 42) p-Chloro-m-cresol | 6.126 | 107 | 76197 | 9.889 ug/ml | 89 |
| 43) 2-Methylnaphthalene | 6.216 | 142 | 195484 | 9.341 ug/ml | 95 |
| 44) 1-Methylnaphthalene | 6.309 | 115 | 62192 | 9.104 ug/ml | 93 |
| 45) Hexachlorocyclopentadiene | 6.390 | 237 | 75925 | 10.228 ug/ml | 99 |
| 46) 2,4,6-Trichlorophenol | 6.508 | 196 | 78117 | 9.541 ug/ml | 99 |
| 47) 2,4,5-Trichlorophenol | 6.539 | 196 | 86553 | 9.617 ug/ml | 97 |
| 49) 2-Chloronaphthalene | 6.679 | 162 | 214208 | 8.752 ug/ml | 93 |
| 50) 2-Nitroaniline | 6.797 | 138 | 61633 | 11.076 ug/ml# | 78 |
| 51) 1,4-Dinitrobenzene | 6.931 | 168 | 28021 | 10.093 ug/ml | 80 |
| 52) 1,3-Dinitrobenzene | 7.005 | 168 | 32467 | 9.834 ug/ml# | 1 |
| 53) Dimethyl phthalate | 7.005 | 163 | 252504 | 8.675 ug/ml# | 98 |
| 54) Acenaphthylene | 7.071 | 152 | 326834 | 9.182 ug/ml | 99 |
| 55) 2,6-Dinitrotoluene | 7.043 | 165 | 51689 | 10.546 ug/ml# | 75 |
| 56) 1,2-Dinitrobenzene | 7.083 | 168 | 19215 | 10.003 ug/ml# | 1 |
| 66) 3-Nitroaniline | 7.195 | 138 | 57722 | 12.122 ug/ml# | 82 |
| 67) Acenaphthene | 7.242 | 154 | 187097 | 9.447 ug/ml | 88 |
| 68) 2,4-Dinitrophenol | 7.294 | 184 | 32967 | 10.669 ug/ml# | 82 |
| 69) Dibenzofuran | 7.409 | 168 | 323476 | 9.437 ug/ml# | 87 |
| 70) 2,4-Dinitrotoluene | 7.425 | 165 | 73085 | 11.120 ug/ml# | 76 |
| 71) 4-Nitrophenol | 7.397 | 65 | 42265 | 11.193 ug/ml# | 27 |
| 72) 2,3,5,6-Tetrachlorophenol | 7.506 | 232 | 76542 | 11.030 ug/ml | 98 |
| 73) 2,3,4,6-Tetrachlorophenol | 7.546 | 232 | 75038 | 10.990 ug/ml | 99 |
| 74) Diethyl phthalate | 7.692 | 149 | 257720 | 9.566 ug/ml | 98 |
| 75) Fluorene | 7.736 | 166 | 249496 | 9.285 ug/ml | 91 |
| 76) 4-Chlorophenyl phenyl ... | 7.764 | 204 | 127708 | 9.205 ug/ml# | 85 |

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL7.D
Acq On : 5 Nov 2024 5:46 pm
Operator : Dakota:HNY
Sample : IL4,32,,ABNL10 Lot# 11113
Misc : WG1994500
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 06 09:24:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 77) 4-Nitroaniline | 7.776 | 138 | 56545 | 10.700 | ug/ml# | 78 |
| 78) 4,6-Dinitro-o-cresol | 7.810 | 198 | 44733 | 9.776 | ug/ml# | 57 |
| 79) NDPA/DPA | 7.882 | 169 | 214404 | 9.243 | ug/ml | 92 |
| 80) Azobenzene | 7.913 | 77 | 215745 | 9.989 | ug/ml | 98 |
| 82) 4-Bromophenyl phenyl e... | 8.227 | 248 | 84538 | 9.576 | ug/ml# | 80 |
| 83) Hexachlorobenzene | 8.270 | 284 | 103252 | 9.246 | ug/ml# | 79 |
| 84) Pentachlorophenol | 8.466 | 266 | 67607 | 11.132 | ug/ml | 99 |
| 91) Phenanthrene | 8.646 | 178 | 409956 | 9.459 | ug/ml | 99 |
| 92) Anthracene | 8.693 | 178 | 407125 | 9.501 | ug/ml | 98 |
| 93) Carbazole | 8.867 | 167 | 382642 | 9.459 | ug/ml | 98 |
| 94) Di-n-butylphthalate | 9.271 | 149 | 460432 | 10.320 | ug/ml# | 98 |
| 95) Fluoranthene | 9.784 | 202 | 502795 | 9.373 | ug/ml# | 92 |
| 96) Benzidine | 9.946 | 184 | 312907 | 10.231 | ug/ml# | 94 |
| 97) Pyrene | 9.992 | 202 | 534393 | 9.364 | ug/ml | 99 |
| 99) Butyl benzyl phthalate | 10.707 | 149 | 207056 | 10.874 | ug/ml# | 82 |
| 107) Benzo(a)anthracene | 11.186 | 228 | 548250 | 9.559 | ug/ml | 99 |
| 108) 3,3'-Dichlorobenzidine | 11.198 | 252 | 225540 | 10.724 | ug/ml# | 97 |
| 109) Chrysene | 11.220 | 228 | 521142 | 9.424 | ug/ml | 98 |
| 110) Bis(2-ethylhexyl)phtha... | 11.338 | 149 | 336797 | 11.063 | ug/ml# | 89 |
| 111) Di-n-octylphthalate | 11.994 | 149 | 571767 | 11.419 | ug/ml# | 72 |
| 112) Benzo(b)fluoranthene | 12.255 | 252 | 579285 | 9.850 | ug/ml# | 93 |
| 113) Benzo(k)fluoranthene | 12.283 | 252 | 591670 | 10.206 | ug/ml# | 93 |
| 114) Benzo(a)pyrene | 12.556 | 252 | 548576 | 10.228 | ug/ml# | 93 |
| 116) Indeno(1,2,3-cd)pyrene | 13.548 | 276 | 610183 | 9.829 | ug/mL# | 89 |
| 117) Dibenzo(a,h)anthracene | 13.573 | 278 | 601923 | 9.872 | ug/ml# | 89 |
| 118) Benzo(ghi)perylene | 13.759 | 276 | 576728 | 9.769 | ug/ml# | 86 |

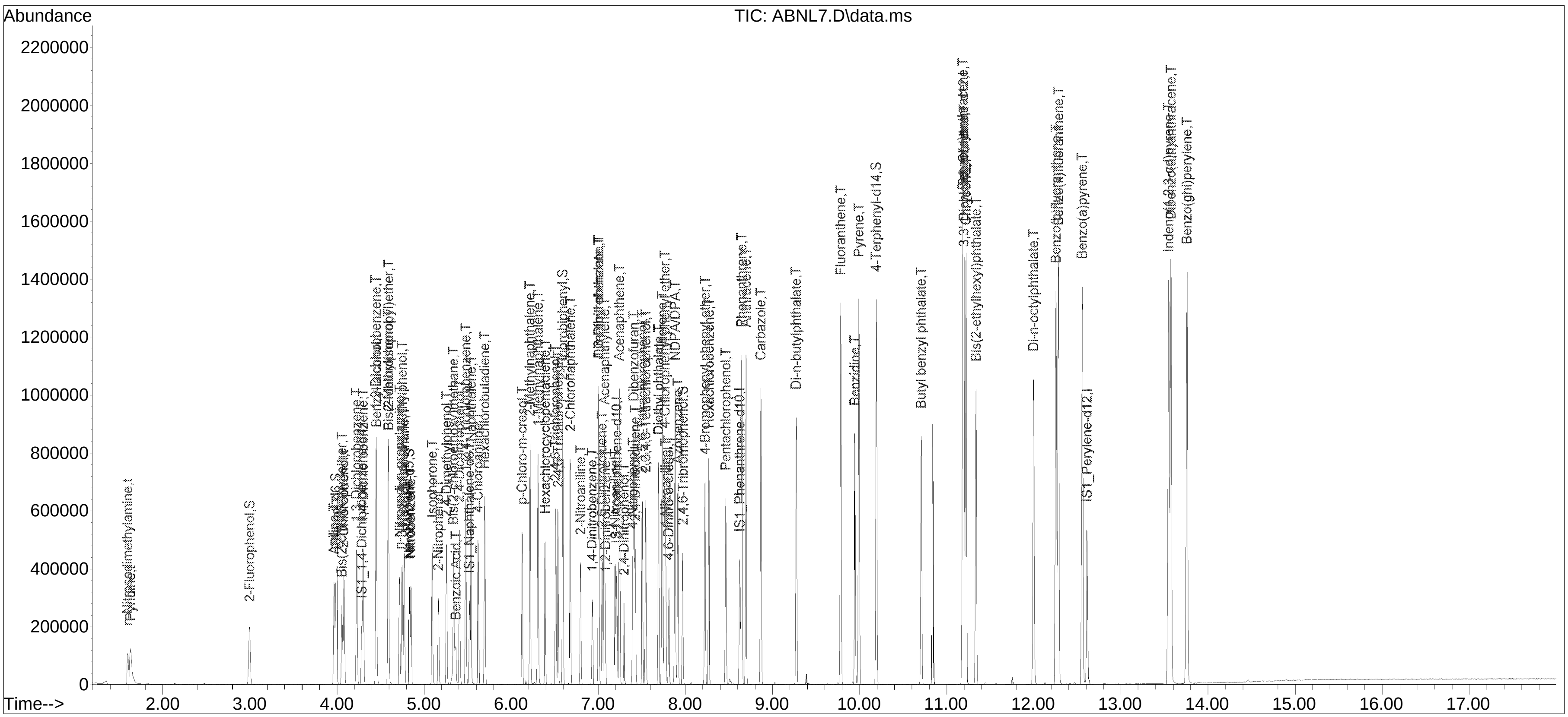
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL7.D
Acq On    :  5 Nov 2024   5:46 pm
Operator  : Dakota:HNY
Sample    : IL4,32,,ABNL10 Lot# 11113
Misc      : WG1994500
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Nov 06 09:24:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List     : ABNical - ABN ical sublistVTICAL\ABNL6.D•



Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL7.D                        Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  5:46 pm             Instrument  : Dakota
Sample      : IL4,32,,ABNL10 Lot# 11113 Quant Date  : 11/6/2024  8:36 am
```

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

Quantitation Report    (QT Reviewed)

```
Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL6.D
Acq On    :  5 Nov 2024   6:09 pm
Operator  : Dakota:HNY
Sample    : IL5,32,,ABNL5 Lot# 11114
Misc      : WG1994500
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Nov 06 09:23:32 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List     : ABNical - ABN ical sublist

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 -------------------------------------------------------------------------
 Internal Standards
 1) IS1_1,4-Dichlorobenzen...   4.283  152     28960     4.000 ug/ml    0.00
   Standard Area 1 = 28960                 Recovery   =  100.00%
37) IS1_Naphthalene-d8          5.520  136    107558     4.000 ug/ml  # 0.00
   Standard Area 1 = 107558                 Recovery   =  100.00%
65) IS1_Acenaphthene-d10        7.210  164     69553     4.000 ug/ml    0.00
   Standard Area 1 = 69553                 Recovery   =  100.00%
90) IS1_Phenanthrene-d10        8.625  188    149813     4.000 ug/ml    0.00
   Standard Area 1 = 149813                 Recovery   =  100.00%
106) IS1_Chrysene-d12          11.192  240    173036     4.000 ug/ml    0.00
   Standard Area 1 = 173036                 Recovery   =  100.00%
115) IS1_Perylene-d12          12.609  264    203359     4.000 ug/ml    0.00
   Standard Area 1 = 203359                 Recovery   =  100.00%

 System Monitoring Compounds
 4) 2-Fluorophenol              2.999  112     36379     5.340 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =  267.00%#
 7) Phenol-d6                   3.984   99     46206     5.277 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =  263.85%#
19) Nitrobenzene-d5             4.833   82     42587     5.338 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =  533.80%#
48) 2-Fluorobiphenyl            6.592  172    122549     4.460 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =  446.00%#
81) 2,4,6-Tribromophenol        7.969  330     23686     5.224 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =  261.20%#
98) 4-Terphenyl-d14            10.191  244    199652     4.941 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =  494.10%#

 Target Compounds                                                Qvalue
 2) n-Nitrosodimethylamine      1.600   74      22399      4.830 ug/ml     82
 3) Pyridine                    1.634   79      36774      5.065 ug/ml#    62
 5) Aniline                     3.969   93      55552      4.897 ug/ml     96
 6) 2-Chlorophenol              4.077  128      43820      5.318 ug/ml#    88
 8) Phenol                      3.997   94      50251      4.906 ug/ml     96
 9) Bis(2-chloroethyl)ether     4.059   93      35511      4.895 ug/ml    100
10) 1,3-Dichlorobenzene         4.223  146      54655      4.507 ug/ml     94
11) 1,4-Dichlorobenzene         4.301  146      55620      4.703 ug/ml     95
12) 1,2-Dichlorobenzene         4.447  146      53065      4.672 ug/ml     93
13) Benzyl alcohol              4.450   79      33022      5.163 ug/ml     98
14) Bis(2-chloroisopropyl)...   4.593   45      61759      4.181 ug/ml#    61
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL6.D
Acq On : 5 Nov 2024 6:09 pm
Operator : Dakota:HNY
Sample : IL5,32,,ABNL5 Lot# 11114
Misc : WG1994500
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 06 09:23:32 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 15) 2-Methylphenol | 4.590 | 108 | 36689 | 5.085 ug/ml | 99 |
| 16) Hexachloroethane | 4.774 | 117 | 19654 | 4.575 ug/ml# | 49 |
| 17) n-Nitrosodi-n-propylamine | 4.721 | 70 | 29429 | 4.880 ug/ml# | 88 |
| 18) 3-Methylphenol/4-Methy... | 4.749 | 108 | 40096 | 5.238 ug/ml | 98 |
| 20) Nitrobenzene | 4.848 | 77 | 43553 | 5.155 ug/ml | 95 |
| 21) Isophorone | 5.094 | 82 | 78642 | 5.046 ug/ml | 95 |
| 22) 2-Nitrophenol | 5.165 | 139 | 21659 | 6.062 ug/ml# | 85 |
| 23) 2,4-Dimethylphenol | 5.255 | 107 | 38443 | 5.313 ug/ml | 99 |
| 24) Bis(2-chloroethoxy)met... | 5.339 | 93 | 48954 | 4.946 ug/ml | 97 |
| 25) 2,4-Dichlorophenol | 5.408 | 162 | 45088 | 5.007 ug/ml# | 91 |
| 26) 1,2,4-Trichlorobenzene | 5.479 | 180 | 53442 | 4.500 ug/ml | 96 |
| 38) Naphthalene | 5.538 | 128 | 137444 | 4.765 ug/ml | 99 |
| 39) Benzoic Acid | 5.346 | 105 | 27655 | 5.748 ug/ml | 91 |
| 40) 4-Chloroaniline | 5.622 | 65 | 15918 | 4.223 ug/ml# | 74 |
| 41) Hexachlorobutadiene | 5.697 | 225 | 33657 | 4.484 ug/ml | 99 |
| 42) p-Chloro-m-cresol | 6.126 | 107 | 37630 | 5.026 ug/ml | 90 |
| 43) 2-Methylnaphthalene | 6.216 | 142 | 94136 | 4.630 ug/ml | 96 |
| 44) 1-Methylnaphthalene | 6.309 | 115 | 31140 | 4.691 ug/ml | 96 |
| 45) Hexachlorocyclopentadiene | 6.390 | 237 | 36194 | 5.018 ug/ml | 99 |
| 46) 2,4,6-Trichlorophenol | 6.508 | 196 | 37386 | 4.699 ug/ml | 96 |
| 47) 2,4,5-Trichlorophenol | 6.539 | 196 | 40448 | 4.625 ug/ml | 99 |
| 49) 2-Chloronaphthalene | 6.679 | 162 | 107403 | 4.516 ug/ml# | 91 |
| 50) 2-Nitroaniline | 6.797 | 138 | 29098 | 5.381 ug/ml# | 76 |
| 51) 1,4-Dinitrobenzene | 6.931 | 168 | 12684 | 4.702 ug/ml | 83 |
| 52) 1,3-Dinitrobenzene | 7.002 | 168 | 15384 | 4.796 ug/ml# | 1 |
| 53) Dimethyl phthalate | 7.002 | 163 | 124096 | 4.387 ug/ml# | 98 |
| 54) Acenaphthylene | 7.067 | 152 | 159055 | 4.599 ug/ml | 99 |
| 55) 2,6-Dinitrotoluene | 7.043 | 165 | 25000 | 5.250 ug/ml# | 75 |
| 56) 1,2-Dinitrobenzene | 7.080 | 168 | 9417 | 5.045 ug/ml# | 1 |
| 66) 3-Nitroaniline | 7.192 | 138 | 26990 | 5.814 ug/ml# | 85 |
| 67) Acenaphthene | 7.241 | 154 | 92335 | 4.782 ug/ml | 89 |
| 68) 2,4-Dinitrophenol | 7.291 | 184 | 14980 | 4.972 ug/ml# | 84 |
| 69) Dibenzofuran | 7.409 | 168 | 158615 | 4.746 ug/ml# | 87 |
| 70) 2,4-Dinitrotoluene | 7.425 | 165 | 34950 | 5.454 ug/ml | 86 |
| 71) 4-Nitrophenol | 7.397 | 65 | 20265 | 5.504 ug/ml# | 1 |
| 72) 2,3,5,6-Tetrachlorophenol | 7.503 | 232 | 36982 | 5.466 ug/ml | 97 |
| 73) 2,3,4,6-Tetrachlorophenol | 7.546 | 232 | 35881 | 5.390 ug/ml | 98 |
| 74) Diethyl phthalate | 7.689 | 149 | 124775 | 4.750 ug/ml | 98 |
| 75) Fluorene | 7.736 | 166 | 123482 | 4.713 ug/ml | 92 |
| 76) 4-Chlorophenyl phenyl ... | 7.764 | 204 | 62734 | 4.638 ug/ml# | 86 |

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL6.D
Acq On : 5 Nov 2024 6:09 pm
Operator : Dakota:HNY
Sample : IL5,32,,ABNL5 Lot# 11114
Misc : WG1994500
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 06 09:23:32 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 77) | 4-Nitroaniline | 7.773 | 138 | 27164 | 5.272 | ug/ml# | 79 |
| 78) | 4,6-Dinitro-o-cresol | 7.807 | 198 | 21012 | 4.910 | ug/ml# | 57 |
| 79) | NDPA/DPA | 7.879 | 169 | 106063 | 4.690 | ug/ml | 93 |
| 80) | Azobenzene | 7.910 | 77 | 105738 | 5.022 | ug/ml | 98 |
| 82) | 4-Bromophenyl phenyl e... | 8.227 | 248 | 41201 | 4.787 | ug/ml# | 80 |
| 83) | Hexachlorobenzene | 8.267 | 284 | 50912 | 4.676 | ug/ml# | 80 |
| 84) | Pentachlorophenol | 8.463 | 266 | 31065 | 5.246 | ug/ml | 97 |
| 91) | Phenanthrene | 8.646 | 178 | 203180 | 4.787 | ug/ml | 100 |
| 92) | Anthracene | 8.693 | 178 | 202631 | 4.828 | ug/ml | 99 |
| 93) | Carbazole | 8.867 | 167 | 191087 | 4.823 | ug/ml | 99 |
| 94) | Di-n-butylphthalate | 9.271 | 149 | 221941 | 5.079 | ug/ml# | 98 |
| 95) | Fluoranthene | 9.784 | 202 | 247376 | 4.709 | ug/ml# | 92 |
| 96) | Benzidine | 9.945 | 184 | 150013 | 5.008 | ug/ml# | 94 |
| 97) | Pyrene | 9.989 | 202 | 267661 | 4.788 | ug/ml | 99 |
| 99) | Butyl benzyl phthalate | 10.707 | 149 | 97439 | 5.225 | ug/ml# | 82 |
| 107) | Benzo(a)anthracene | 11.183 | 228 | 270494 | 4.738 | ug/ml | 99 |
| 108) | 3,3'-Dichlorobenzidine | 11.195 | 252 | 108876 | 5.200 | ug/ml# | 96 |
| 109) | Chrysene | 11.217 | 228 | 264748 | 4.809 | ug/ml | 99 |
| 110) | Bis(2-ethylhexyl)phtha... | 11.335 | 149 | 158349 | 5.225 | ug/ml# | 89 |
| 111) | Di-n-octylphthalate | 11.994 | 149 | 263131 | 5.279 | ug/ml# | 71 |
| 112) | Benzo(b)fluoranthene | 12.252 | 252 | 283903 | 4.849 | ug/ml# | 94 |
| 113) | Benzo(k)fluoranthene | 12.280 | 252 | 293103 | 5.079 | ug/ml# | 92 |
| 114) | Benzo(a)pyrene | 12.553 | 252 | 266408 | 4.990 | ug/ml# | 93 |
| 116) | Indeno(1,2,3-cd)pyrene | 13.545 | 276 | 297219 | 4.778 | ug/mL# | 88 |
| 117) | Dibenzo(a,h)anthracene | 13.570 | 278 | 297184 | 4.864 | ug/ml# | 89 |
| 118) | Benzo(ghi)perylene | 13.753 | 276 | 284158 | 4.803 | ug/ml# | 86 |

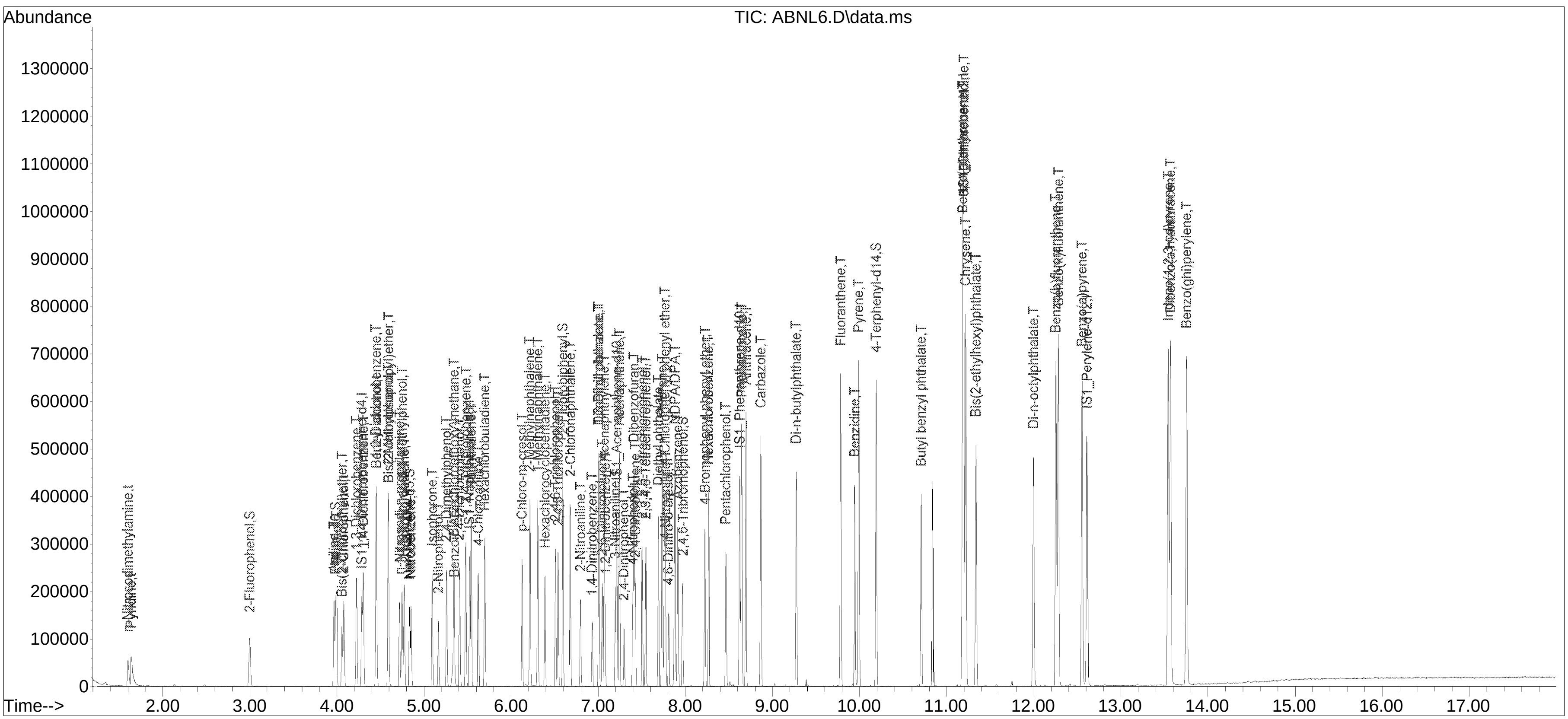
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL6.D
Acq On    :  5 Nov 2024   6:09 pm
Operator  : Dakota:HNY
Sample    : IL5,32,,ABNL5 Lot# 11114
Misc      : WG1994500
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Nov 06 09:23:32 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List     : ABNical - ABN ical sublistVTICAL\ABNL6.D•



Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL6.D                    Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  6:09 pm         Instrument  : Dakota
Sample      : IL5,32,,ABNL5 Lot# 11114  Quant Date  : 11/6/2024  8:36 am
```

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

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL5.D
Acq On    :  5 Nov 2024   6:33 pm
Operator  : Dakota:HNY
Sample    : IL6,32,,ABNL2.5 Lot# 11115
Misc      : WG1994500
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Nov 06 09:23:14 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List     : ABNical - ABN ical sublist

       Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 --------------------------------------------------------------------------
 Internal Standards
 1) IS1_1,4-Dichlorobenzen...   4.283  152     29578     4.000 ug/ml    0.00
   Standard Area 1 = 28960                 Recovery   =  102.13%
37) IS1_Naphthalene-d8          5.520  136    108514     4.000 ug/ml  # 0.00
   Standard Area 1 = 107558                 Recovery   =  100.89%
65) IS1_Acenaphthene-d10        7.210  164     69464     4.000 ug/ml    0.00
   Standard Area 1 = 69553                 Recovery   =   99.87%
90) IS1_Phenanthrene-d10        8.622  188    149902     4.000 ug/ml    0.00
   Standard Area 1 = 149813                 Recovery   =  100.06%
106) IS1_Chrysene-d12          11.192  240    171800     4.000 ug/ml    0.00
   Standard Area 1 = 173036                 Recovery   =   99.29%
115) IS1_Perylene-d12          12.609  264    200787     4.000 ug/ml    0.00
   Standard Area 1 = 203359                 Recovery   =   98.74%

 System Monitoring Compounds
 4) 2-Fluorophenol              2.999  112     16767     2.410 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =  120.50%#
 7) Phenol-d6                   3.984   99     20488     2.291 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =  114.55%#
19) Nitrobenzene-d5             4.833   82     19806     2.431 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =  243.10%#
48) 2-Fluorobiphenyl            6.592  172     57800     2.085 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =  208.50%#
81) 2,4,6-Tribromophenol        7.969  330     10800     2.385 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =  119.25%#
98) 4-Terphenyl-d14            10.191  244     94387     2.334 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =  233.40%#

 Target Compounds                                                  Qvalue
 2) n-Nitrosodimethylamine      1.607   74      10936      2.309 ug/ml#    79
 3) Pyridine                    1.647   79      17761      2.395 ug/ml#    57
 5) Aniline                     3.969   93      26004      2.245 ug/ml     97
 6) 2-Chlorophenol              4.081  128      20780      2.469 ug/ml#    87
 8) Phenol                      3.997   94      23244      2.222 ug/ml     95
 9) Bis(2-chloroethyl)ether     4.059   93      17155      2.315 ug/ml     95
10) 1,3-Dichlorobenzene         4.224  146      25363      2.048 ug/ml     93
11) 1,4-Dichlorobenzene         4.298  146      26480      2.192 ug/ml     94
12) 1,2-Dichlorobenzene         4.447  146      25558      2.203 ug/ml     93
13) Benzyl alcohol              4.450   79      15128      2.316 ug/ml     97
14) Bis(2-chloroisopropyl)...   4.593   45      29769      1.973 ug/ml#    63
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL5.D
Acq On : 5 Nov 2024 6:33 pm
Operator : Dakota:HNY
Sample : IL6,32,,ABNL2.5 Lot# 11115
Misc : WG1994500
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 06 09:23:14 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 15) 2-Methylphenol | 4.590 | 108 | 17543 | 2.380 | ug/ml | 99 |
| 16) Hexachloroethane | 4.771 | 117 | 9381 | 2.138 | ug/ml# | 49 |
| 17) n-Nitrosodi-n-propylamine | 4.721 | 70 | 13382 | 2.173 | ug/ml# | 89 |
| 18) 3-Methylphenol/4-Methy... | 4.749 | 108 | 18226 | 2.331 | ug/ml | 94 |
| 20) Nitrobenzene | 4.851 | 77 | 19986 | 2.316 | ug/ml | 97 |
| 21) Isophorone | 5.097 | 82 | 35708 | 2.243 | ug/ml | 94 |
| 22) 2-Nitrophenol | 5.165 | 139 | 9948 | 2.726 | ug/ml# | 87 |
| 23) 2,4-Dimethylphenol | 5.255 | 107 | 17802 | 2.409 | ug/ml | 98 |
| 24) Bis(2-chloroethoxy)met... | 5.339 | 93 | 22852 | 2.261 | ug/ml# | 96 |
| 25) 2,4-Dichlorophenol | 5.408 | 162 | 20663 | 2.247 | ug/ml# | 92 |
| 26) 1,2,4-Trichlorobenzene | 5.479 | 180 | 24934 | 2.056 | ug/ml | 97 |
| 38) Naphthalene | 5.538 | 128 | 65418 | 2.248 | ug/ml | 99 |
| 39) Benzoic Acid | 5.330 | 105 | 11562 | 3.334 | ug/ml | 92 |
| 40) 4-Chloroaniline | 5.622 | 65 | 7308 | 1.922 | ug/ml# | 69 |
| 41) Hexachlorobutadiene | 5.697 | 225 | 15656 | 2.068 | ug/ml | 98 |
| 42) p-Chloro-m-cresol | 6.126 | 107 | 16669 | 2.207 | ug/ml | 89 |
| 43) 2-Methylnaphthalene | 6.216 | 142 | 44702 | 2.179 | ug/ml | 96 |
| 44) 1-Methylnaphthalene | 6.309 | 115 | 14070 | 2.101 | ug/ml | 91 |
| 45) Hexachlorocyclopentadiene | 6.390 | 237 | 16271 | 2.236 | ug/ml | 98 |
| 46) 2,4,6-Trichlorophenol | 6.508 | 196 | 16943 | 2.111 | ug/ml | 97 |
| 47) 2,4,5-Trichlorophenol | 6.536 | 196 | 18833 | 2.135 | ug/ml | 100 |
| 49) 2-Chloronaphthalene | 6.676 | 162 | 49375 | 2.058 | ug/ml# | 93 |
| 50) 2-Nitroaniline | 6.794 | 138 | 12454 | 2.283 | ug/ml# | 80 |
| 51) 1,4-Dinitrobenzene | 6.931 | 168 | 5829M3 | 2.142 | ug/ml | |
| 52) 1,3-Dinitrobenzene | 7.002 | 168 | 6632 | 2.049 | ug/ml# | 1 |
| 53) Dimethyl phthalate | 7.002 | 163 | 58737 | 2.058 | ug/ml# | 98 |
| 54) Acenaphthylene | 7.067 | 152 | 74072 | 2.123 | ug/ml | 99 |
| 55) 2,6-Dinitrotoluene | 7.040 | 165 | 11316 | 2.355 | ug/ml# | 73 |
| 56) 1,2-Dinitrobenzene | 7.080 | 168 | 4222 | 2.242 | ug/ml# | 1 |
| 66) 3-Nitroaniline | 7.192 | 138 | 12311 | 2.655 | ug/ml | 87 |
| 67) Acenaphthene | 7.238 | 154 | 43594 | 2.260 | ug/ml | 90 |
| 68) 2,4-Dinitrophenol | 7.294 | 184 | 6486 | 2.156 | ug/ml# | 81 |
| 69) Dibenzofuran | 7.409 | 168 | 75940 | 2.275 | ug/ml | 89 |
| 70) 2,4-Dinitrotoluene | 7.422 | 165 | 15676 | 2.449 | ug/ml | 89 |
| 71) 4-Nitrophenol | 7.394 | 65 | 9042 | 2.459 | ug/ml# | 30 |
| 72) 2,3,5,6-Tetrachlorophenol | 7.503 | 232 | 16922 | 2.504 | ug/ml | 97 |
| 73) 2,3,4,6-Tetrachlorophenol | 7.543 | 232 | 16643 | 2.503 | ug/ml | 97 |
| 74) Diethyl phthalate | 7.689 | 149 | 59292 | 2.260 | ug/ml | 97 |
| 75) Fluorene | 7.736 | 166 | 56914 | 2.175 | ug/ml | 91 |
| 76) 4-Chlorophenyl phenyl ... | 7.764 | 204 | 29670 | 2.196 | ug/ml# | 85 |

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL5.D
Acq On : 5 Nov 2024 6:33 pm
Operator : Dakota:HNY
Sample : IL6,32,,ABNL2.5 Lot# 11115
Misc : WG1994500
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 06 09:23:14 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 77) | 4-Nitroaniline | 7.770 | 138 | 11929 | 2.318 | ug/ml# | 80 |
| 78) | 4,6-Dinitro-o-cresol | 7.807 | 198 | 9125 | 2.353 | ug/ml# | 58 |
| 79) | NDPA/DPA | 7.879 | 169 | 49243 | 2.180 | ug/ml | 93 |
| 80) | Azobenzene | 7.910 | 77 | 48438 | 2.303 | ug/ml | 99 |
| 82) | 4-Bromophenyl phenyl e... | 8.224 | 248 | 19203 | 2.234 | ug/ml# | 78 |
| 83) | Hexachlorobenzene | 8.267 | 284 | 24775 | 2.278 | ug/ml# | 79 |
| 84) | Pentachlorophenol | 8.463 | 266 | 13677 | 2.313 | ug/ml | 99 |
| 91) | Phenanthrene | 8.643 | 178 | 95445 | 2.247 | ug/ml | 100 |
| 92) | Anthracene | 8.693 | 178 | 95270 | 2.269 | ug/ml | 99 |
| 93) | Carbazole | 8.867 | 167 | 89548 | 2.259 | ug/ml | 98 |
| 94) | Di-n-butylphthalate | 9.271 | 149 | 99712 | 2.281 | ug/ml# | 98 |
| 95) | Fluoranthene | 9.781 | 202 | 117123 | 2.228 | ug/ml# | 91 |
| 96) | Benzidine | 9.946 | 184 | 66293 | 2.212 | ug/ml# | 94 |
| 97) | Pyrene | 9.989 | 202 | 126787 | 2.267 | ug/ml | 99 |
| 99) | Butyl benzyl phthalate | 10.707 | 149 | 42406 | 2.272 | ug/ml# | 83 |
| 107) | Benzo(a)anthracene | 11.183 | 228 | 124996 | 2.205 | ug/ml | 98 |
| 108) | 3,3'-Dichlorobenzidine | 11.192 | 252 | 48853 | 2.350 | ug/ml# | 97 |
| 109) | Chrysene | 11.217 | 228 | 124749 | 2.283 | ug/ml | 98 |
| 110) | Bis(2-ethylhexyl)phtha... | 11.335 | 149 | 67600 | 2.247 | ug/ml# | 89 |
| 111) | Di-n-octylphthalate | 11.994 | 149 | 110289 | 2.229 | ug/ml# | 71 |
| 112) | Benzo(b)fluoranthene | 12.252 | 252 | 137623 | 2.368 | ug/ml# | 93 |
| 113) | Benzo(k)fluoranthene | 12.277 | 252 | 129836 | 2.266 | ug/ml# | 94 |
| 114) | Benzo(a)pyrene | 12.553 | 252 | 121012 | 2.283 | ug/ml# | 92 |
| 116) | Indeno(1,2,3-cd)pyrene | 13.542 | 276 | 132618 | 2.159 | ug/mL# | 88 |
| 117) | Dibenzo(a,h)anthracene | 13.567 | 278 | 135000 | 2.238 | ug/ml# | 89 |
| 118) | Benzo(ghi)perylene | 13.753 | 276 | 128448 | 2.199 | ug/ml# | 85 |

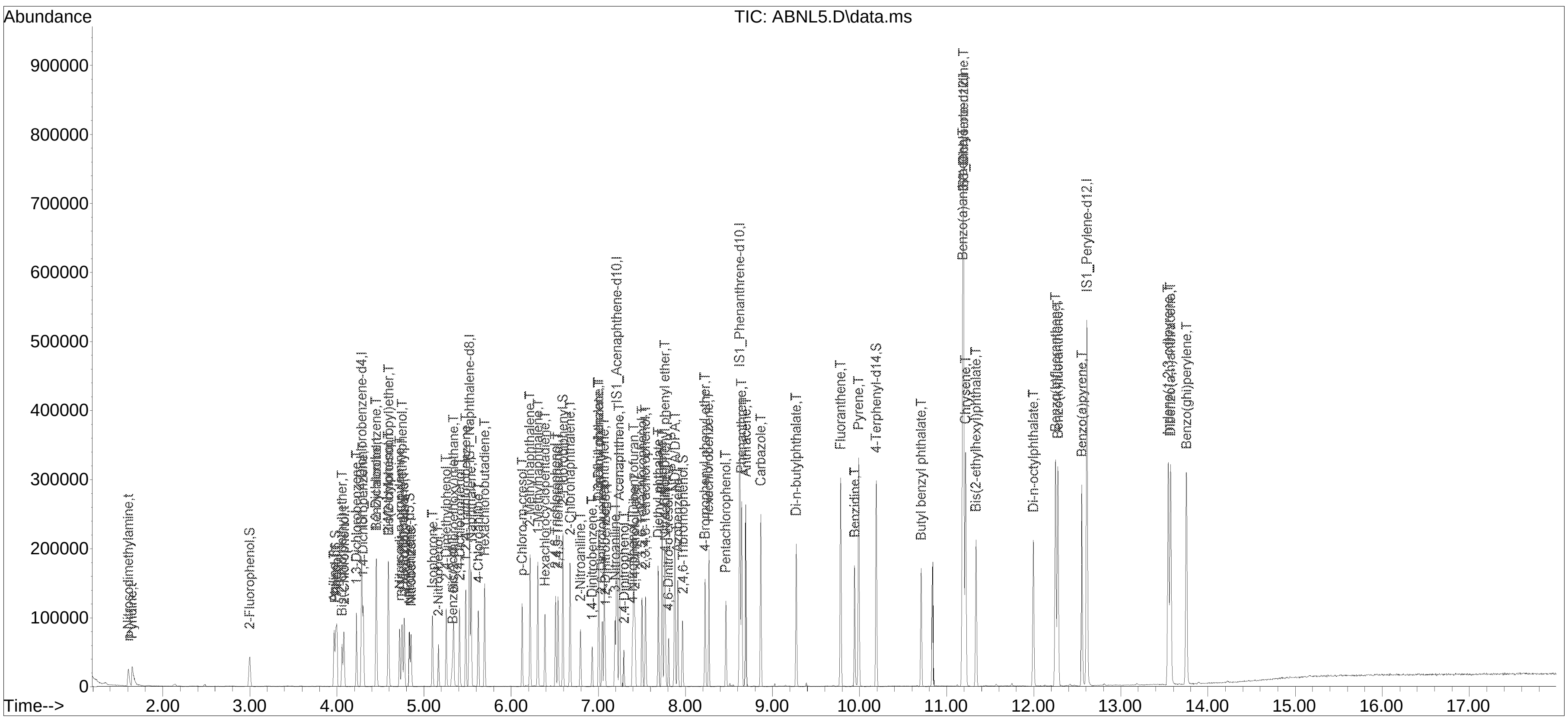
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL5.D
Acq On    :  5 Nov 2024   6:33 pm
Operator  : Dakota:HNY
Sample    : IL6,32,,ABNL2.5 Lot# 11115
Misc      : WG1994500
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Nov 06 09:23:14 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

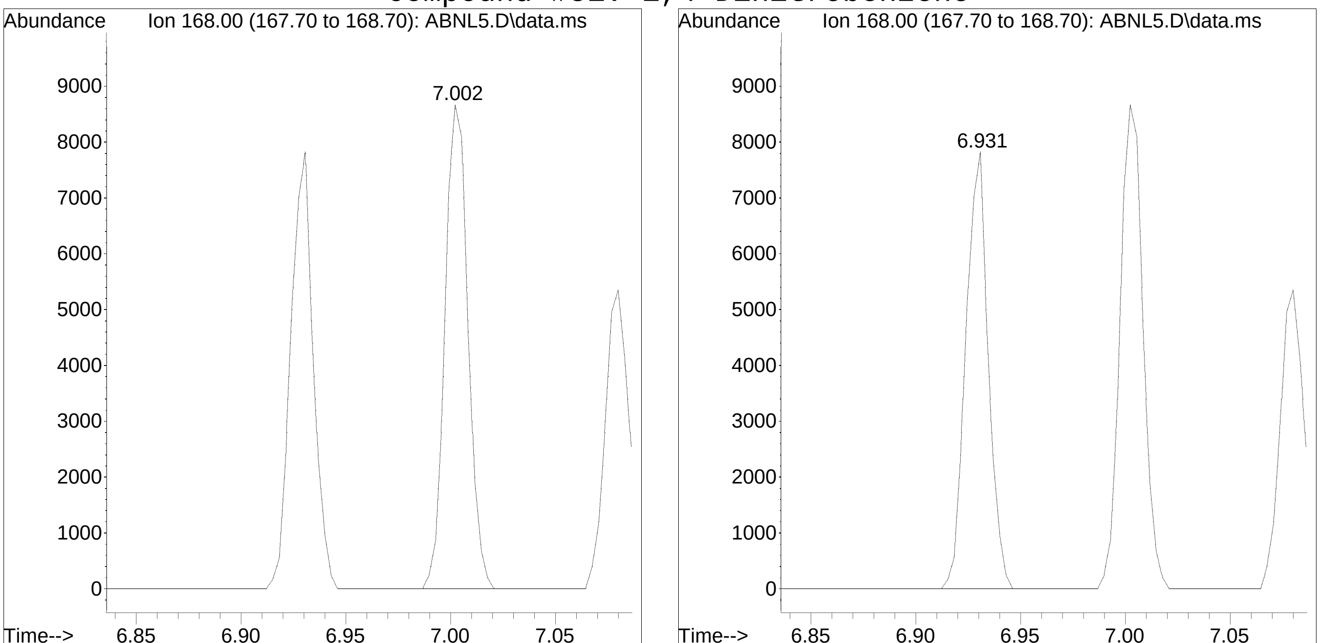
Sub List     : ABNical - ABN ical sublistVTICAL\ABNL6.D•



# Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL5.D                  Operator     : Dakota:HNY
Date Inj'd  : 11/5/2024  6:33 pm       Instrument   : Dakota
Sample      : IL6,32,,ABNL2.5 Lot# 11115Quant Date   : 11/6/2024  8:35 am
```

Compound #51: 1,4-Dinitrobenzene




Original Peak Response = 6632        Manual Peak Response = 5829 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\241105RVTICAL\
Data File : ABNL4.D
Acq On    :  5 Nov 2024   6:56 pm
Operator  : Dakota:HNY
Sample    : IL7,32,,ABNL1 Lot# 11116
Misc      : WG1994500
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Nov 06 09:21:32 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List     : ABNical - ABN ical sublist

       Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) IS1_1,4-Dichlorobenzen...   4.286  152     29645     4.000 ug/ml    0.00
   Standard Area 1 = 28960                Recovery   =  102.37%
37) IS1_Naphthalene-d8          5.520  136    107897     4.000 ug/ml  # 0.00
   Standard Area 1 = 107558                Recovery   =  100.32%
65) IS1_Acenaphthene-d10        7.210  164     70461     4.000 ug/ml    0.00
   Standard Area 1 = 69553                Recovery   =  101.31%
90) IS1_Phenanthrene-d10        8.621  188    156225     4.000 ug/ml    0.00
   Standard Area 1 = 149813                Recovery   =  104.28%
106) IS1_Chrysene-d12          11.189  240    175608     4.000 ug/ml    0.00
   Standard Area 1 = 173036                Recovery   =  101.49%
115) IS1_Perylene-d12          12.609  264    207118     4.000 ug/ml    0.00
   Standard Area 1 = 203359                Recovery   =  101.85%

 System Monitoring Compounds
 4) 2-Fluorophenol              2.999  112      7494     1.075 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   53.75%
 7) Phenol-d6                   3.987   99      9495     1.059 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   52.95%
19) Nitrobenzene-d5             4.833   82      8830     1.081 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =  108.10%
48) 2-Fluorobiphenyl            6.592  172     25387     0.921 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   92.10%
81) 2,4,6-Tribromophenol        7.966  330      4669     1.016 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   50.80%
98) 4-Terphenyl-d14            10.191  244     42632     1.012 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =  101.20%

 Target Compounds                                               Qvalue
 2) n-Nitrosodimethylamine      1.613   74      4871      1.026 ug/ml#    81
 3) Pyridine                    1.662   79      7733M1    1.040 ug/ml
 5) Aniline                     3.969   93     11096      0.956 ug/ml     97
 6) 2-Chlorophenol              4.081  128      8901      1.055 ug/ml#    89
 8) Phenol                      4.000   94     10249      0.977 ug/ml     92
 9) Bis(2-chloroethyl)ether     4.062   93      7130      0.960 ug/ml     94
10) 1,3-Dichlorobenzene         4.227  146     11504      0.927 ug/ml     95
11) 1,4-Dichlorobenzene         4.301  146     11645      0.962 ug/ml     97
12) 1,2-Dichlorobenzene         4.447  146     11305      0.972 ug/ml     93
13) Benzyl alcohol              4.450   79      6639      1.014 ug/ml     98
14) Bis(2-chloroisopropyl)...   4.593   45     13142      0.869 ug/ml#    65
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL4.D
Acq On : 5 Nov 2024 6:56 pm
Operator : Dakota:HNY
Sample : IL7,32,,ABNL1 Lot# 11116
Misc : WG1994500
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 06 09:21:32 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 15) 2-Methylphenol | 4.590 | 108 | 7654 | 1.036 ug/ml | 98 |
| 16) Hexachloroethane | 4.774 | 117 | 4414 | 1.004 ug/ml# | 58 |
| 17) n-Nitrosodi-n-propylamine | 4.721 | 70 | 6013 | 0.974 ug/ml# | 84 |
| 18) 3-Methylphenol/4-Methy... | 4.749 | 108 | 8547 | 1.091 ug/ml | 99 |
| 20) Nitrobenzene | 4.851 | 77 | 8609 | 0.995 ug/ml | 97 |
| 21) Isophorone | 5.097 | 82 | 15106 | 0.947 ug/ml | 98 |
| 22) 2-Nitrophenol | 5.168 | 139 | 4182 | 1.143 ug/ml# | 84 |
| 23) 2,4-Dimethylphenol | 5.255 | 107 | 7792 | 1.052 ug/ml | 96 |
| 24) Bis(2-chloroethoxy)met... | 5.339 | 93 | 9871 | 0.974 ug/ml# | 94 |
| 25) 2,4-Dichlorophenol | 5.408 | 162 | 8821 | 0.957 ug/ml# | 92 |
| 26) 1,2,4-Trichlorobenzene | 5.479 | 180 | 11026 | 0.907 ug/ml | 97 |
| 38) Naphthalene | 5.538 | 128 | 28272 | 0.977 ug/ml | 99 |
| 39) Benzoic Acid | 5.321 | 105 | 4647 | 2.316 ug/ml | 95 |
| 40) 4-Chloroaniline | 5.622 | 65 | 3160 | 0.836 ug/ml# | 69 |
| 41) Hexachlorobutadiene | 5.697 | 225 | 6855 | 0.910 ug/ml | 99 |
| 42) p-Chloro-m-cresol | 6.126 | 107 | 7198 | 0.958 ug/ml | 89 |
| 43) 2-Methylnaphthalene | 6.216 | 142 | 19005 | 0.932 ug/ml | 94 |
| 44) 1-Methylnaphthalene | 6.309 | 115 | 6294 | 0.945 ug/ml | 92 |
| 45) Hexachlorocyclopentadiene | 6.390 | 237 | 7064 | 0.976 ug/ml | 95 |
| 46) 2,4,6-Trichlorophenol | 6.508 | 196 | 7192 | 0.901 ug/ml | 99 |
| 47) 2,4,5-Trichlorophenol | 6.539 | 196 | 8343 | 0.951 ug/ml | 94 |
| 49) 2-Chloronaphthalene | 6.679 | 162 | 21923 | 0.919 ug/ml | 93 |
| 50) 2-Nitroaniline | 6.797 | 138 | 5587 | 1.030 ug/ml# | 74 |
| 51) 1,4-Dinitrobenzene | 6.928 | 168 | 2433 | 0.899 ug/ml | 87 |
| 52) 1,3-Dinitrobenzene | 7.005 | 168 | 2825 | 0.878 ug/ml# | 1 |
| 53) Dimethyl phthalate | 7.002 | 163 | 25243 | 0.890 ug/ml# | 98 |
| 54) Acenaphthylene | 7.067 | 152 | 32446 | 0.935 ug/ml | 100 |
| 55) 2,6-Dinitrotoluene | 7.039 | 165 | 4692 | 0.982 ug/ml# | 77 |
| 56) 1,2-Dinitrobenzene | 7.080 | 168 | 1810 | 0.967 ug/ml# | 1 |
| 66) 3-Nitroaniline | 7.192 | 138 | 5066 | 1.077 ug/ml# | 88 |
| 67) Acenaphthene | 7.238 | 154 | 19239 | 0.983 ug/ml | 85 |
| 68) 2,4-Dinitrophenol | 7.291 | 184 | 2292 | 0.751 ug/ml# | 84 |
| 69) Dibenzofuran | 7.409 | 168 | 34238 | 1.011 ug/ml | 90 |
| 70) 2,4-Dinitrotoluene | 7.422 | 165 | 6155 | 0.948 ug/ml# | 88 |
| 71) 4-Nitrophenol | 7.394 | 65 | 3892 | 1.044 ug/ml# | 1 |
| 72) 2,3,5,6-Tetrachlorophenol | 7.503 | 232 | 7152 | 1.043 ug/ml | 99 |
| 73) 2,3,4,6-Tetrachlorophenol | 7.546 | 232 | 7236 | 1.073 ug/ml | 98 |
| 74) Diethyl phthalate | 7.689 | 149 | 25683 | 0.965 ug/ml | 97 |
| 75) Fluorene | 7.736 | 166 | 26341 | 0.992 ug/ml | 94 |
| 76) 4-Chlorophenyl phenyl ... | 7.764 | 204 | 13510 | 0.986 ug/ml# | 86 |

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL4.D
Acq On : 5 Nov 2024 6:56 pm
Operator : Dakota:HNY
Sample : IL7,32,,ABNL1 Lot# 11116
Misc : WG1994500
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 06 09:21:32 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 77) 4-Nitroaniline | 7.770 | 138 | 5206 | 0.997 ug/ml | 81 |
| 78) 4,6-Dinitro-o-cresol | 7.807 | 198 | 3785 | 1.190 ug/ml# | 56 |
| 79) NDPA/DPA | 7.879 | 169 | 22405 | 0.978 ug/ml | 95 |
| 80) Azobenzene | 7.910 | 77 | 21474 | 1.007 ug/ml | 98 |
| 82) 4-Bromophenyl phenyl e... | 8.227 | 248 | 8392 | 0.962 ug/ml# | 80 |
| 83) Hexachlorobenzene | 8.267 | 284 | 10855 | 0.984 ug/ml# | 81 |
| 84) Pentachlorophenol | 8.463 | 266 | 5643 | 0.941 ug/ml | 96 |
| 91) Phenanthrene | 8.643 | 178 | 44283 | 1.000 ug/ml | 99 |
| 92) Anthracene | 8.693 | 178 | 42879 | 0.980 ug/ml | 99 |
| 93) Carbazole | 8.867 | 167 | 39554 | 0.957 ug/ml | 98 |
| 94) Di-n-butylphthalate | 9.271 | 149 | 43140 | 0.947 ug/ml | 98 |
| 95) Fluoranthene | 9.781 | 202 | 52758 | 0.963 ug/ml# | 92 |
| 96) Benzidine | 9.946 | 184 | 27185 | 0.870 ug/ml# | 94 |
| 97) Pyrene | 9.989 | 202 | 57764 | 0.991 ug/ml | 99 |
| 99) Butyl benzyl phthalate | 10.707 | 149 | 17465 | 0.898 ug/ml# | 80 |
| 107) Benzo(a)anthracene | 11.183 | 228 | 56317 | 0.972 ug/ml | 99 |
| 108) 3,3'-Dichlorobenzidine | 11.192 | 252 | 20507 | 0.965 ug/ml# | 97 |
| 109) Chrysene | 11.217 | 228 | 56651 | 1.014 ug/ml | 98 |
| 110) Bis(2-ethylhexyl)phtha... | 11.335 | 149 | 27758 | 0.903 ug/ml# | 89 |
| 111) Di-n-octylphthalate | 11.994 | 149 | 44645 | 0.883 ug/ml# | 71 |
| 112) Benzo(b)fluoranthene | 12.252 | 252 | 60227 | 1.014 ug/ml# | 93 |
| 113) Benzo(k)fluoranthene | 12.277 | 252 | 57698 | 0.985 ug/ml# | 93 |
| 114) Benzo(a)pyrene | 12.553 | 252 | 52945 | 0.977 ug/ml# | 92 |
| 116) Indeno(1,2,3-cd)pyrene | 13.542 | 276 | 56228 | 0.887 ug/mL# | 89 |
| 117) Dibenzo(a,h)anthracene | 13.566 | 278 | 59013 | 0.948 ug/ml# | 90 |
| 118) Benzo(ghi)perylene | 13.750 | 276 | 56806 | 0.943 ug/ml# | 87 |

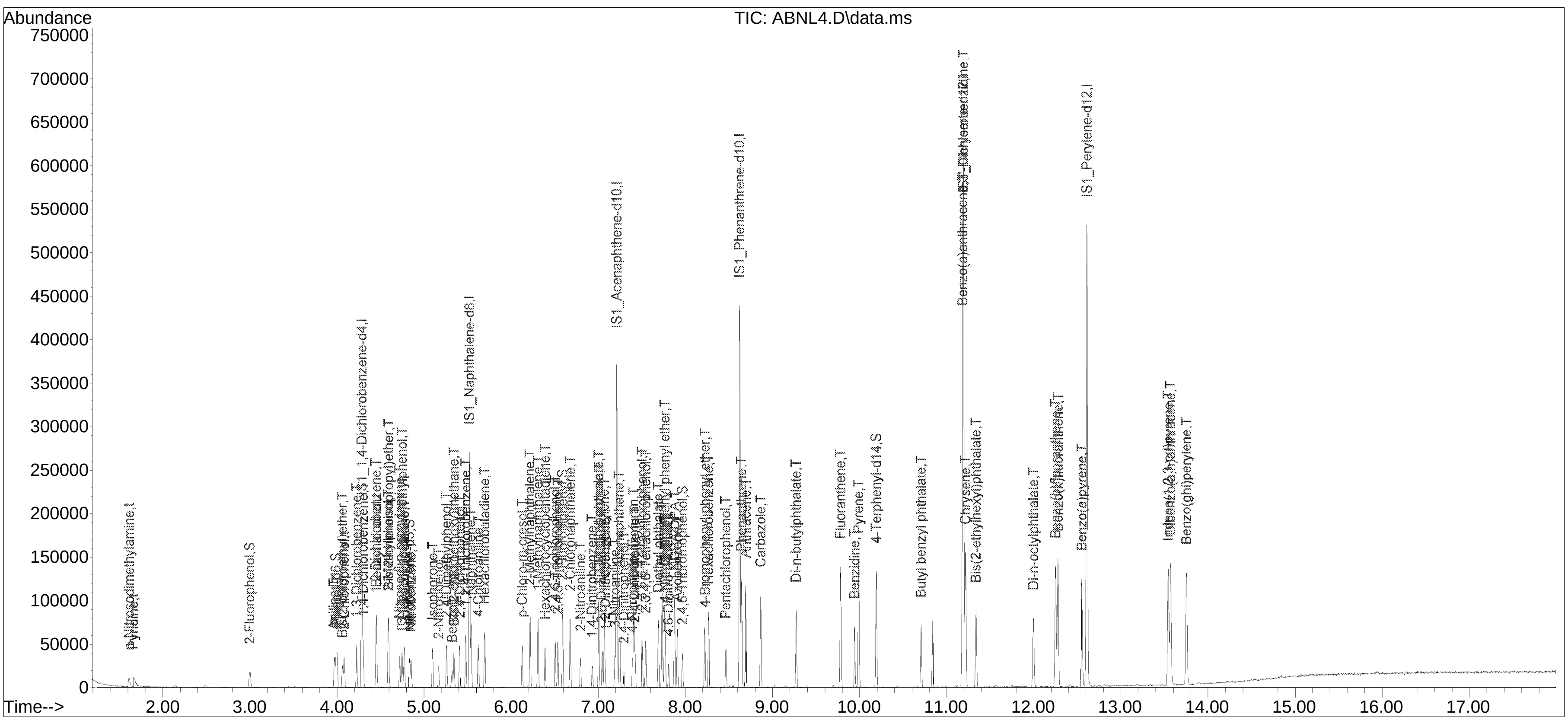
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL4.D
Acq On    :  5 Nov 2024   6:56 pm
Operator  : Dakota:HNY
Sample    : IL7,32,,ABNL1 Lot# 11116
Misc      : WG1994500
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Nov 06 09:21:32 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

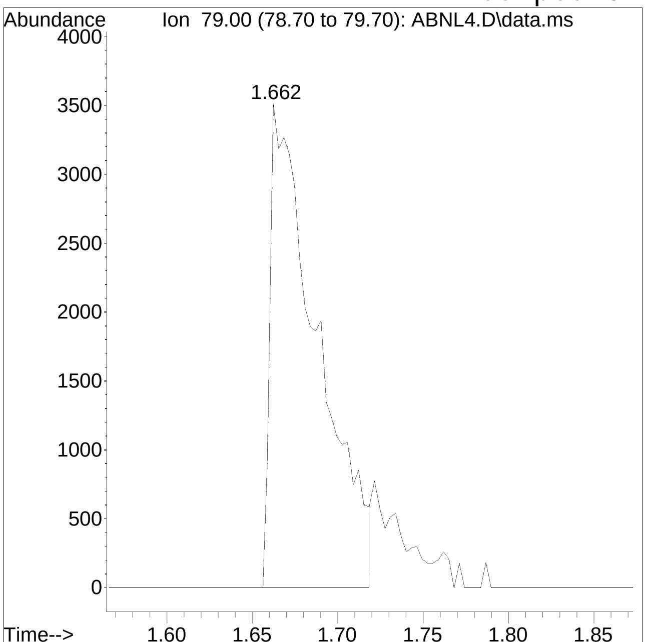
Sub List     : ABNical - ABN ical sublistVTICAL\ABNL6.D•

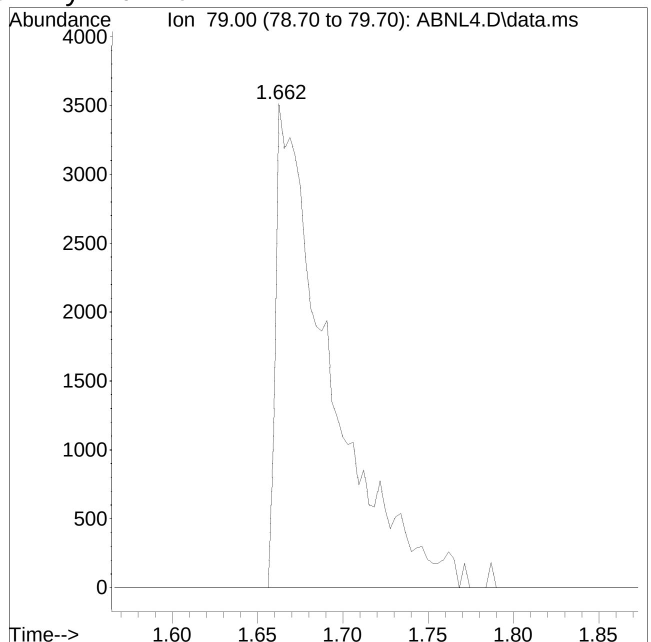


Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ABNL4.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 6:56 pm Instrument : Dakota
Sample : IL7,32,,ABNL1 Lot# 11116 Quant Date : 11/6/2024 8:35 am

Compound #3: Pyridine




Original Peak Response = 6679 Manual Peak Response = 7733 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL3.D
Acq On : 5 Nov 2024 7:19 pm
Operator : Dakota:HNY
Sample : IL8,32,,ABNL0.5 Lot# 11117
Misc : WG1994500
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 06 09:19:46 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

```
        Compound                     R.T. QIon  Response  Conc Units Dev(Min)
 -------------------------------------------------------------------------------
 Internal Standards
  1) IS1_1,4-Dichlorobenzen...   4.283  152     29418     4.000 ug/ml    0.00
    Standard Area 1 = 28960                 Recovery   =  101.58%
 37) IS1_Naphthalene-d8          5.520  136    107040     4.000 ug/ml  # 0.00
    Standard Area 1 = 107558                 Recovery   =   99.52%
 65) IS1_Acenaphthene-d10        7.210  164     69588     4.000 ug/ml    0.00
    Standard Area 1 = 69553                 Recovery   =  100.05%
 90) IS1_Phenanthrene-d10        8.625  188    154469     4.000 ug/ml    0.00
    Standard Area 1 = 149813                 Recovery   =  103.11%
106) IS1_Chrysene-d12           11.189  240    171586     4.000 ug/ml    0.00
    Standard Area 1 = 173036                 Recovery   =   99.16%
115) IS1_Perylene-d12           12.609  264    198191     4.000 ug/ml    0.00
    Standard Area 1 = 203359                 Recovery   =   97.46%

 System Monitoring Compounds
  4) 2-Fluorophenol              2.999  112      4114     0.594 ug/ml   0.00
    Spiked Amount      2.000   Range  15 - 110    Recovery   =   29.70%
  7) Phenol-d6                   3.984   99      5099     0.573 ug/ml   0.00
    Spiked Amount      2.000   Range  15 - 110    Recovery   =   28.65%
 19) Nitrobenzene-d5             4.833   82      4322     0.533 ug/ml   0.00
    Spiked Amount      1.000   Range  30 - 130    Recovery   =   53.30%
 48) 2-Fluorobiphenyl            6.592  172     14074     0.515 ug/ml   0.00
    Spiked Amount      1.000   Range  30 - 130    Recovery   =   51.50%
 81) 2,4,6-Tribromophenol        7.969  330      2419     0.533 ug/ml   0.00
    Spiked Amount      2.000   Range  15 - 110    Recovery   =   26.65%
 98) 4-Terphenyl-d14            10.191  244     23205     0.557 ug/ml   0.00
    Spiked Amount      1.000   Range  30 - 130    Recovery   =   55.70%

 Target Compounds                                                    Qvalue
  2) n-Nitrosodimethylamine      1.616   74       2320      0.493 ug/ml#    84
  3) Pyridine                    1.678   79       3401      0.461 ug/ml#    52
  5) Aniline                     3.969   93       6141      0.533 ug/ml#    95
  6) 2-Chlorophenol              4.081  128       4589      0.548 ug/ml     91
  8) Phenol                      3.997   94       5365      0.516 ug/ml     98
  9) Bis(2-chloroethyl)ether     4.062   93       3944      0.535 ug/ml#    73
 10) 1,3-Dichlorobenzene         4.224  146       6253      0.508 ug/ml     94
 11) 1,4-Dichlorobenzene         4.301  146       5896      0.491 ug/ml     96
 12) 1,2-Dichlorobenzene         4.447  146       6085      0.527 ug/ml     93
 13) Benzyl alcohol              4.450   79       3277      0.504 ug/ml     92
 14) Bis(2-chloroisopropyl)...   4.596   45       6779      0.452 ug/ml#    57
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL3.D
Acq On : 5 Nov 2024 7:19 pm
Operator : Dakota:HNY
Sample : IL8,32,,ABNL0.5 Lot# 11117
Misc : WG1994500
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 06 09:19:46 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 15) 2-Methylphenol | 4.590 | 108 | 4182 | 0.571 | ug/ml | 98 |
| 16) Hexachloroethane | 4.774 | 117 | 2279 | 0.522 | ug/ml# | 55 |
| 17) n-Nitrosodi-n-propylamine | 4.724 | 70 | 3148 | 0.514 | ug/ml# | 83 |
| 18) 3-Methylphenol/4-Methy... | 4.749 | 108 | 4315 | 0.555 | ug/ml# | 96 |
| 20) Nitrobenzene | 4.851 | 77 | 4733 | 0.551 | ug/ml | 92 |
| 21) Isophorone | 5.097 | 82 | 8339 | 0.527 | ug/ml# | 94 |
| 22) 2-Nitrophenol | 5.168 | 139 | 2238 | 0.617 | ug/ml# | 83 |
| 23) 2,4-Dimethylphenol | 5.255 | 107 | 3990 | 0.543 | ug/ml | 97 |
| 24) Bis(2-chloroethoxy)met... | 5.342 | 93 | 5699 | 0.567 | ug/ml# | 88 |
| 25) 2,4-Dichlorophenol | 5.408 | 162 | 4928 | 0.539 | ug/ml# | 90 |
| 26) 1,2,4-Trichlorobenzene | 5.479 | 180 | 5828 | 0.483 | ug/ml# | 93 |
| 38) Naphthalene | 5.538 | 128 | 15620 | 0.544 | ug/ml | 99 |
| 39) Benzoic Acid | 5.314 | 105 | 2055 | 1.933 | ug/ml | 93 |
| 40) 4-Chloroaniline | 5.619 | 65 | 1649 | 0.440 | ug/ml# | 73 |
| 41) Hexachlorobutadiene | 5.697 | 225 | 3809 | 0.510 | ug/ml | 97 |
| 42) p-Chloro-m-cresol | 6.126 | 107 | 4123 | 0.553 | ug/ml | 94 |
| 43) 2-Methylnaphthalene | 6.216 | 142 | 10794 | 0.533 | ug/ml | 96 |
| 44) 1-Methylnaphthalene | 6.309 | 115 | 3402 | 0.515 | ug/ml | 90 |
| 45) Hexachlorocyclopentadiene | 6.390 | 237 | 3753 | 0.523 | ug/ml# | 92 |
| 46) 2,4,6-Trichlorophenol | 6.508 | 196 | 3730 | 0.471 | ug/ml | 96 |
| 47) 2,4,5-Trichlorophenol | 6.536 | 196 | 4171 | 0.479 | ug/ml | 94 |
| 49) 2-Chloronaphthalene | 6.676 | 162 | 11828 | 0.500 | ug/ml# | 92 |
| 50) 2-Nitroaniline | 6.797 | 138 | 2840 | 0.528 | ug/ml# | 79 |
| 51) 1,4-Dinitrobenzene | 6.928 | 168 | 1198 | 0.446 | ug/ml | 98 |
| 52) 1,3-Dinitrobenzene | 7.002 | 168 | 1608 | 0.504 | ug/ml# | 1 |
| 53) Dimethyl phthalate | 7.002 | 163 | 13663 | 0.485 | ug/ml# | 93 |
| 54) Acenaphthylene | 7.067 | 152 | 17423 | 0.506 | ug/ml | 99 |
| 55) 2,6-Dinitrotoluene | 7.043 | 165 | 2472 | 0.522 | ug/ml# | 72 |
| 56) 1,2-Dinitrobenzene | 7.077 | 168 | 869 | 0.468 | ug/ml# | 1 |
| 66) 3-Nitroaniline | 7.192 | 138 | 2555 | 0.550 | ug/ml# | 87 |
| 67) Acenaphthene | 7.238 | 154 | 10391 | 0.538 | ug/ml | 86 |
| 68) 2,4-Dinitrophenol | 7.294 | 184 | 1122 | 0.372 | ug/ml# | 60 |
| 69) Dibenzofuran | 7.409 | 168 | 18140 | 0.543 | ug/ml | 90 |
| 70) 2,4-Dinitrotoluene | 7.422 | 165 | 3188 | 0.497 | ug/ml# | 87 |
| 71) 4-Nitrophenol | 7.397 | 65 | 1815 | 0.493 | ug/ml# | 1 |
| 72) 2,3,5,6-Tetrachlorophenol | 7.503 | 232 | 3995 | 0.590 | ug/ml | 95 |
| 73) 2,3,4,6-Tetrachlorophenol | 7.546 | 232 | 3636 | 0.546 | ug/ml | 95 |
| 74) Diethyl phthalate | 7.686 | 149 | 14100 | 0.537 | ug/ml | 97 |
| 75) Fluorene | 7.736 | 166 | 13902 | 0.530 | ug/ml | 92 |
| 76) 4-Chlorophenyl phenyl ... | 7.764 | 204 | 7123 | 0.526 | ug/ml# | 84 |

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL3.D
Acq On : 5 Nov 2024 7:19 pm
Operator : Dakota:HNY
Sample : IL8,32,,ABNL0.5 Lot# 11117
Misc : WG1994500
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 06 09:19:46 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 77) 4-Nitroaniline | 7.770 | 138 | 2602 | 0.505 ug/ml | 82 |
| 78) 4,6-Dinitro-o-cresol | 7.807 | 198 | 1926 | 0.800 ug/ml# | 53 |
| 79) NDPA/DPA | 7.879 | 169 | 12162 | 0.537 ug/ml | 95 |
| 80) Azobenzene | 7.910 | 77 | 11871 | 0.563 ug/ml | 97 |
| 82) 4-Bromophenyl phenyl e... | 8.227 | 248 | 4868 | 0.565 ug/ml# | 77 |
| 83) Hexachlorobenzene | 8.270 | 284 | 5936 | 0.545 ug/ml# | 81 |
| 84) Pentachlorophenol | 8.463 | 266 | 2717 | 0.459 ug/ml | 95 |
| 91) Phenanthrene | 8.643 | 178 | 23436 | 0.535 ug/ml | 96 |
| 92) Anthracene | 8.693 | 178 | 22990 | 0.531 ug/ml | 98 |
| 93) Carbazole | 8.867 | 167 | 21414 | 0.524 ug/ml | 99 |
| 94) Di-n-butylphthalate | 9.271 | 149 | 23305 | 0.517 ug/ml# | 98 |
| 95) Fluoranthene | 9.781 | 202 | 28196 | 0.521 ug/ml# | 91 |
| 96) Benzidine | 9.946 | 184 | 13470 | 0.436 ug/ml# | 94 |
| 97) Pyrene | 9.989 | 202 | 30155 | 0.523 ug/ml | 98 |
| 99) Butyl benzyl phthalate | 10.707 | 149 | 9250 | 0.481 ug/ml# | 83 |
| 107) Benzo(a)anthracene | 11.183 | 228 | 30189 | 0.533 ug/ml | 99 |
| 108) 3,3'-Dichlorobenzidine | 11.192 | 252 | 10487 | 0.505 ug/ml# | 97 |
| 109) Chrysene | 11.217 | 228 | 31185 | 0.571 ug/ml | 99 |
| 110) Bis(2-ethylhexyl)phtha... | 11.335 | 149 | 14256 | 0.474 ug/ml# | 89 |
| 111) Di-n-octylphthalate | 11.991 | 149 | 22394 | 0.453 ug/ml# | 74 |
| 112) Benzo(b)fluoranthene | 12.252 | 252 | 31504 | 0.543 ug/ml# | 93 |
| 113) Benzo(k)fluoranthene | 12.277 | 252 | 30567 | 0.534 ug/ml# | 93 |
| 114) Benzo(a)pyrene | 12.553 | 252 | 26723 | 0.505 ug/ml# | 92 |
| 116) Indeno(1,2,3-cd)pyrene | 13.542 | 276 | 29560 | 0.488 ug/mL# | 88 |
| 117) Dibenzo(a,h)anthracene | 13.567 | 278 | 30045 | 0.505 ug/ml# | 89 |
| 118) Benzo(ghi)perylene | 13.750 | 276 | 30478 | 0.529 ug/ml# | 84 |

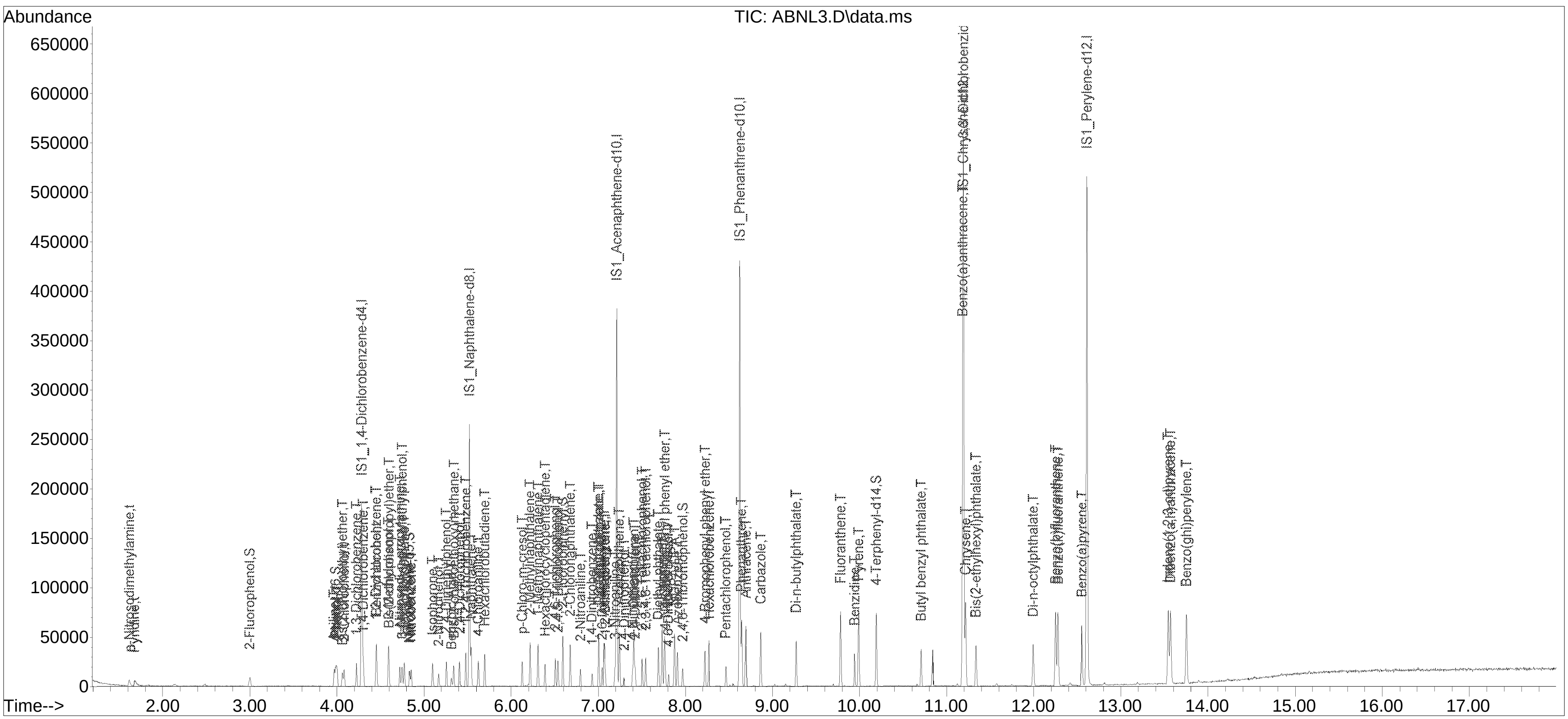
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL3.D
Acq On    :  5 Nov 2024   7:19 pm
Operator  : Dakota:HNY
Sample    : IL8,32,,ABNL0.5 Lot# 11117
Misc      : WG1994500
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Nov 06 09:19:46 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List     : ABNical - ABN ical sublistVTICAL\ABNL6.D•



Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod      : FS241105RVT_Dakota.m
Data File   : ABNL3.D                    Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  7:19 pm         Instrument  : Dakota
Sample      : IL8,32,,ABNL0.5 Lot# 11117Quant Date  : 11/6/2024  8:35 am
```

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL2.D
Acq On : 5 Nov 2024 7:42 pm
Operator : Dakota:HNY
Sample : IL9,32,,ABNL0.2 Lot# 11149
Misc : WG1994500
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 06 09:19:20 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) IS1_1,4-Dichlorobenzen... | 4.283 | 152 | 26744 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 28960 | | | Recovery = | 92.35% | |
| 37) IS1_Naphthalene-d8 | 5.520 | 136 | 97597 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 107558 | | | Recovery = | 90.74% | |
| 65) IS1_Acenaphthene-d10 | 7.210 | 164 | 61798 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 69553 | | | Recovery = | 88.85% | |
| 90) IS1_Phenanthrene-d10 | 8.621 | 188 | 140419 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 149813 | | | Recovery = | 93.73% | |
| 106) IS1_Chrysene-d12 | 11.189 | 240 | 157363 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 173036 | | | Recovery = | 90.94% | |
| 115) IS1_Perylene-d12 | 12.609 | 264 | 178706 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 203359 | | | Recovery = | 87.88% | |

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **System Monitoring Compounds** | | | | | |
| 4) 2-Fluorophenol | 3.002 | 112 | 1343 | 0.213 ug/ml | 0.00 |
| Spiked Amount 2.000 | Range 15 - 110 | | Recovery = | 10.65%# | |
| 7) Phenol-d6 | 3.984 | 99 | 1724 | 0.213 ug/ml | 0.00 |
| Spiked Amount 2.000 | Range 15 - 110 | | Recovery = | 10.65%# | |
| 19) Nitrobenzene-d5 | 4.836 | 82 | 1535 | 0.208 ug/ml | 0.00 |
| Spiked Amount 1.000 | Range 30 - 130 | | Recovery = | 20.80%# | |
| 48) 2-Fluorobiphenyl | 6.592 | 172 | 4771 | 0.191 ug/ml | 0.00 |
| Spiked Amount 1.000 | Range 30 - 130 | | Recovery = | 19.10%# | |
| 81) 2,4,6-Tribromophenol | 7.969 | 330 | 885 | 0.220 ug/ml | 0.00 |
| Spiked Amount 2.000 | Range 15 - 110 | | Recovery = | 11.00%# | |
| 98) 4-Terphenyl-d14 | 10.188 | 244 | 7997 | 0.211 ug/ml | 0.00 |
| Spiked Amount 1.000 | Range 30 - 130 | | Recovery = | 21.10%# | |

| Target Compounds | R.T. | QIon | Response | Conc Units | Qvalue |
|---|---|---|---|---|---|
| 2) n-Nitrosodimethylamine | 1.619 | 74 | 731 | 0.171 ug/ml# | 88 |
| 3) Pyridine | 1.703 | 79 | 992 | 0.148 ug/ml# | 1 |
| 5) Aniline | 3.972 | 93 | 1909 | 0.182 ug/ml# | 77 |
| 6) 2-Chlorophenol | 4.077 | 128 | 1411 | 0.185 ug/ml# | 71 |
| 8) Phenol | 4.000 | 94 | 1770 | 0.187 ug/ml# | 73 |
| 9) Bis(2-chloroethyl)ether | 4.062 | 93 | 1212 | 0.181 ug/ml# | 73 |
| 10) 1,3-Dichlorobenzene | 4.227 | 146 | 1946M3 | 0.174 ug/ml | |
| 11) 1,4-Dichlorobenzene | 4.301 | 146 | 2074 | 0.190 ug/ml | 93 |
| 12) 1,2-Dichlorobenzene | 4.450 | 146 | 2094 | 0.200 ug/ml | 92 |
| 13) Benzyl alcohol | 4.453 | 79 | 1147 | 0.194 ug/ml | 97 |
| 14) Bis(2-chloroisopropyl)... | 4.593 | 45 | 2334 | 0.171 ug/ml# | 51 |

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL2.D
Acq On : 5 Nov 2024 7:42 pm
Operator : Dakota:HNY
Sample : IL9,32,,ABNL0.2 Lot# 11149
Misc : WG1994500
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 06 09:19:20 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 15) 2-Methylphenol | 4.590 | 108 | 1387 | 0.208 ug/ml# | 89 |
| 16) Hexachloroethane | 4.774 | 117 | 675 | 0.170 ug/ml# | 46 |
| 17) n-Nitrosodi-n-propylamine | 4.724 | 70 | 1115 | 0.200 ug/ml# | 59 |
| 18) 3-Methylphenol/4-Methy... | 4.749 | 108 | 1604 | 0.227 ug/ml# | 96 |
| 20) Nitrobenzene | 4.854 | 77 | 1500 | 0.192 ug/ml# | 85 |
| 21) Isophorone | 5.100 | 82 | 2890 | 0.201 ug/ml# | 65 |
| 22) 2-Nitrophenol | 5.165 | 139 | 785 | 0.238 ug/ml# | 31 |
| 23) 2,4-Dimethylphenol | 5.255 | 107 | 1345 | 0.201 ug/ml | 93 |
| 24) Bis(2-chloroethoxy)met... | 5.339 | 93 | 1764 | 0.193 ug/ml# | 89 |
| 25) 2,4-Dichlorophenol | 5.408 | 162 | 1570 | 0.189 ug/ml# | 75 |
| 26) 1,2,4-Trichlorobenzene | 5.479 | 180 | 2035 | 0.186 ug/ml | 88 |
| 38) Naphthalene | 5.538 | 128 | 5444 | 0.208 ug/ml | 99 |
| 39) Benzoic Acid | 5.311 | 105 | 305M2 | 1.675 ug/ml | |
| 40) 4-Chloroaniline | 5.622 | 65 | 556 | 0.163 ug/ml# | 56 |
| 41) Hexachlorobutadiene | 5.697 | 225 | 1142 | 0.168 ug/ml | 96 |
| 42) p-Chloro-m-cresol | 6.126 | 107 | 1357 | 0.200 ug/ml# | 82 |
| 43) 2-Methylnaphthalene | 6.219 | 142 | 3600 | 0.195 ug/ml | 95 |
| 44) 1-Methylnaphthalene | 6.306 | 115 | 1113M3 | 0.185 ug/ml | |
| 45) Hexachlorocyclopentadiene | 6.390 | 237 | 1098 | 0.168 ug/ml# | 87 |
| 46) 2,4,6-Trichlorophenol | 6.508 | 196 | 1360 | 0.188 ug/ml# | 83 |
| 47) 2,4,5-Trichlorophenol | 6.539 | 196 | 1464 | 0.185 ug/ml# | 83 |
| 49) 2-Chloronaphthalene | 6.679 | 162 | 4378 | 0.203 ug/ml# | 91 |
| 50) 2-Nitroaniline | 6.794 | 138 | 967 | 0.197 ug/ml# | 44 |
| 51) 1,4-Dinitrobenzene | 6.928 | 168 | 309M2 | 0.126 ug/ml | |
| 52) 1,3-Dinitrobenzene | 7.005 | 168 | 453M2 | 0.156 ug/ml | |
| 53) Dimethyl phthalate | 7.002 | 163 | 4834 | 0.188 ug/ml# | 77 |
| 54) Acenaphthylene | 7.067 | 152 | 5876 | 0.187 ug/ml | 100 |
| 55) 2,6-Dinitrotoluene | 7.043 | 165 | 768 | 0.178 ug/ml# | 50 |
| 56) 1,2-Dinitrobenzene | 7.083 | 168 | 212M2 | 0.125 ug/ml | |
| 66) 3-Nitroaniline | 7.192 | 138 | 892 | 0.216 ug/ml# | 67 |
| 67) Acenaphthene | 7.238 | 154 | 3717 | 0.217 ug/ml | 91 |
| 68) 2,4-Dinitrophenol | 7.291 | 184 | 291M2 | 0.109 ug/ml | |
| 69) Dibenzofuran | 7.409 | 168 | 6564 | 0.221 ug/ml | 96 |
| 70) 2,4-Dinitrotoluene | 7.422 | 165 | 1006 | 0.177 ug/ml# | 60 |
| 71) 4-Nitrophenol | 7.394 | 65 | 638 | 0.195 ug/ml# | 1 |
| 72) 2,3,5,6-Tetrachlorophenol | 7.506 | 232 | 1294 | 0.215 ug/ml | 87 |
| 73) 2,3,4,6-Tetrachlorophenol | 7.546 | 232 | 1161 | 0.196 ug/ml | 92 |
| 74) Diethyl phthalate | 7.686 | 149 | 4946 | 0.212 ug/ml | 96 |
| 75) Fluorene | 7.736 | 166 | 4961 | 0.213 ug/ml | 87 |
| 76) 4-Chlorophenyl phenyl ... | 7.761 | 204 | 2543 | 0.212 ug/ml# | 79 |

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL2.D
Acq On : 5 Nov 2024 7:42 pm
Operator : Dakota:HNY
Sample : IL9,32,,ABNL0.2 Lot# 11149
Misc : WG1994500
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 06 09:19:20 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 77) 4-Nitroaniline | 7.770 | 138 | 798 | 0.174 ug/ml# | 80 |
| 78) 4,6-Dinitro-o-cresol | 7.810 | 198 | 460M2 | 0.497 ug/ml | |
| 79) NDPA/DPA | 7.879 | 169 | 4188 | 0.208 ug/ml | 88 |
| 80) Azobenzene | 7.910 | 77 | 4014 | 0.215 ug/ml# | 95 |
| 82) 4-Bromophenyl phenyl e... | 8.227 | 248 | 1681 | 0.220 ug/ml# | 82 |
| 83) Hexachlorobenzene | 8.267 | 284 | 2219 | 0.229 ug/ml# | 76 |
| 84) Pentachlorophenol | 8.466 | 266 | 864 | 0.164 ug/ml | 98 |
| 91) Phenanthrene | 8.643 | 178 | 8748 | 0.220 ug/ml | 98 |
| 92) Anthracene | 8.690 | 178 | 8056 | 0.205 ug/ml | 99 |
| 93) Carbazole | 8.864 | 167 | 7288 | 0.196 ug/ml | 99 |
| 94) Di-n-butylphthalate | 9.271 | 149 | 7684 | 0.188 ug/ml# | 93 |
| 95) Fluoranthene | 9.781 | 202 | 10128 | 0.206 ug/ml# | 92 |
| 96) Benzidine | 9.945 | 184 | 4612 | 0.164 ug/ml# | 86 |
| 97) Pyrene | 9.989 | 202 | 10851 | 0.207 ug/ml | 99 |
| 99) Butyl benzyl phthalate | 10.707 | 149 | 2914 | 0.167 ug/ml# | 82 |
| 107) Benzo(a)anthracene | 11.179 | 228 | 10880 | 0.210 ug/ml | 98 |
| 108) 3,3'-Dichlorobenzidine | 11.192 | 252 | 3454 | 0.181 ug/ml | 98 |
| 109) Chrysene | 11.217 | 228 | 10803 | 0.216 ug/ml | 96 |
| 110) Bis(2-ethylhexyl)phtha... | 11.335 | 149 | 4698 | 0.170 ug/ml# | 85 |
| 111) Di-n-octylphthalate | 11.994 | 149 | 8032 | 0.177 ug/ml# | 73 |
| 112) Benzo(b)fluoranthene | 12.252 | 252 | 11034 | 0.207 ug/ml# | 93 |
| 113) Benzo(k)fluoranthene | 12.277 | 252 | 9946 | 0.189 ug/ml# | 94 |
| 114) Benzo(a)pyrene | 12.553 | 252 | 9411 | 0.194 ug/ml# | 91 |
| 116) Indeno(1,2,3-cd)pyrene | 13.538 | 276 | 10109 | 0.185 ug/mL# | 89 |
| 117) Dibenzo(a,h)anthracene | 13.566 | 278 | 10097 | 0.188 ug/ml# | 90 |
| 118) Benzo(ghi)perylene | 13.747 | 276 | 10475 | 0.201 ug/ml# | 84 |

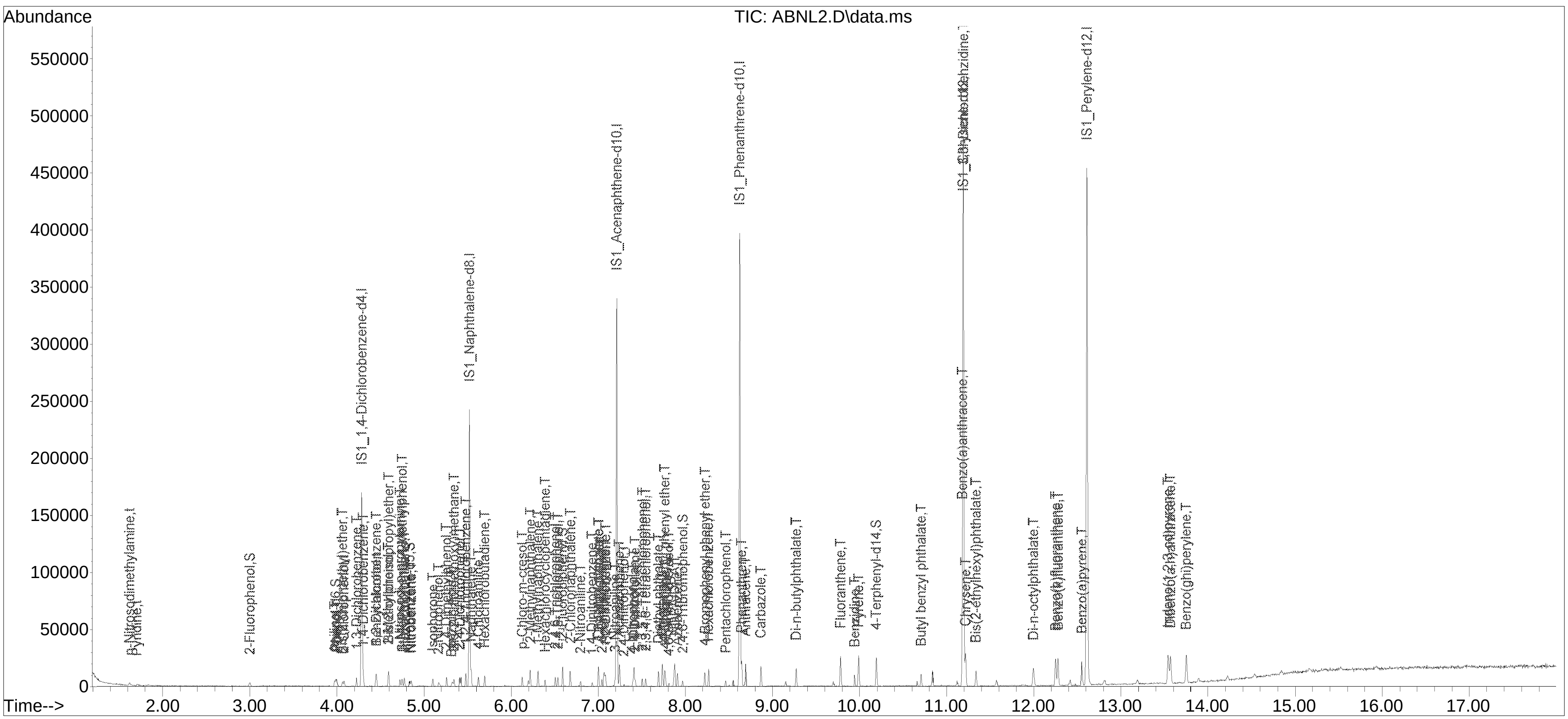
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL2.D
Acq On    :  5 Nov 2024   7:42 pm
Operator  : Dakota:HNY
Sample    : IL9,32,,ABNL0.2 Lot# 11149
Misc      : WG1994500
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Nov 06 09:19:20 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

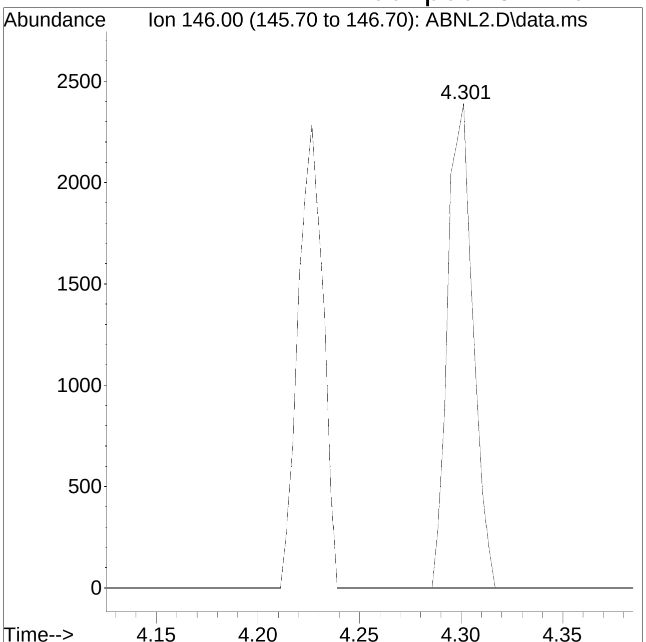
Sub List     : ABNical - ABN ical sublistVTICAL\ABNL6.D•

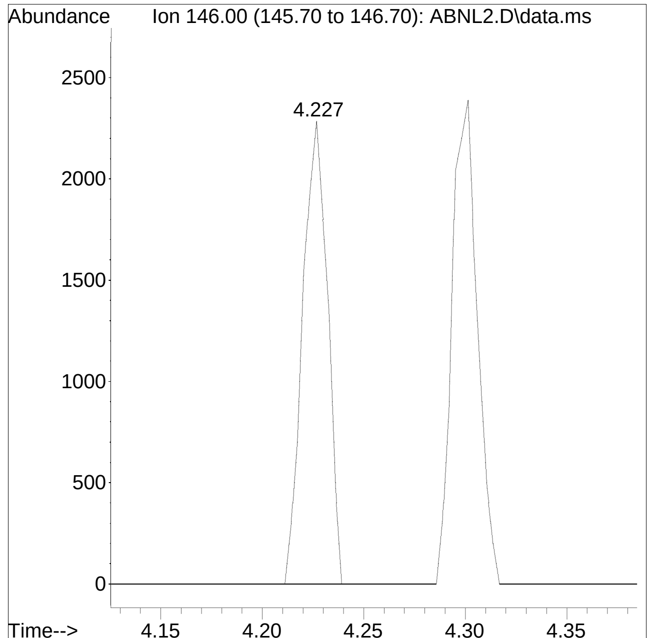


Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL2.D                     Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  7:42 pm          Instrument  : Dakota
Sample      : IL9,32,,ABNL0.2 Lot# 11149Quant Date  : 11/6/2024  8:35 am
```

Compound #10: 1,3-Dichlorobenzene



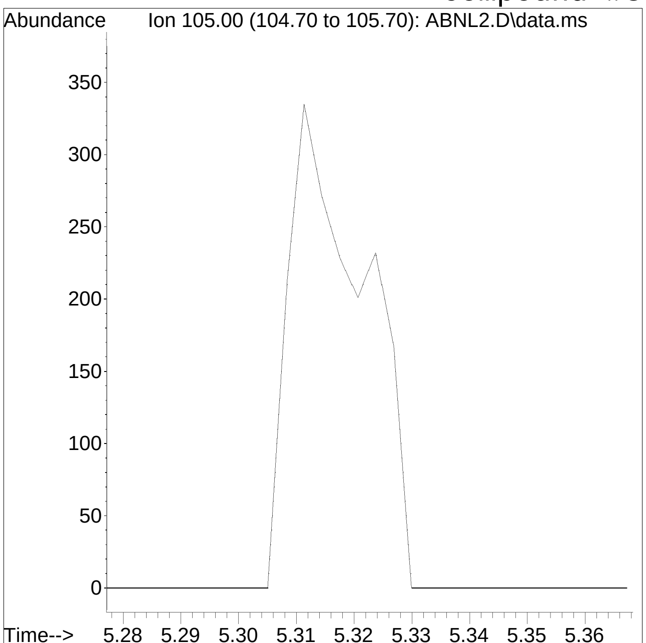

Original Peak Response = 2074          Manual Peak Response = 1946 M3

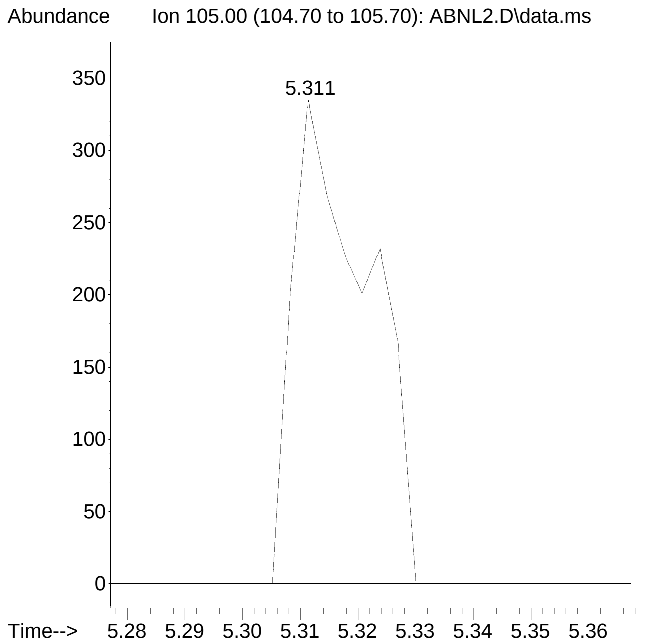
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL2.D                  Operator     : Dakota:HNY
Date Inj'd  : 11/5/2024  7:42 pm       Instrument   : Dakota
Sample      : IL9,32,,ABNL0.2 Lot# 11149Quant Date  : 11/6/2024  8:35 am
```

Compound #39: Benzoic Acid



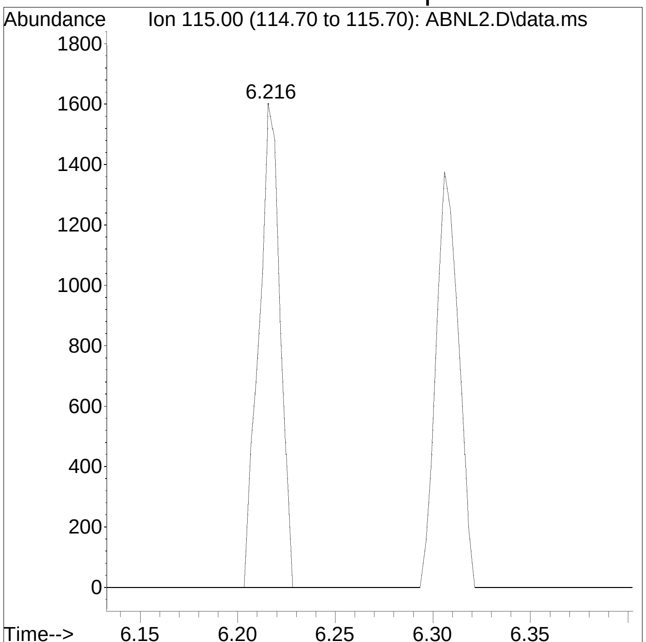

Original Peak Response = 0          Manual Peak Response = 305 M2

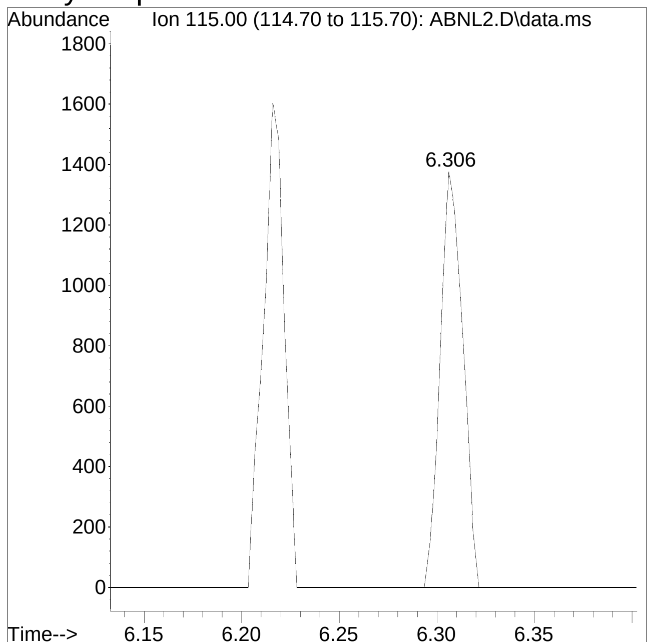
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL2.D                  Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  7:42 pm       Instrument  : Dakota
Sample      : IL9,32,,ABNL0.2 Lot# 11149Quant Date  : 11/6/2024  8:35 am
```

Compound #44: 1-Methylnaphthalene



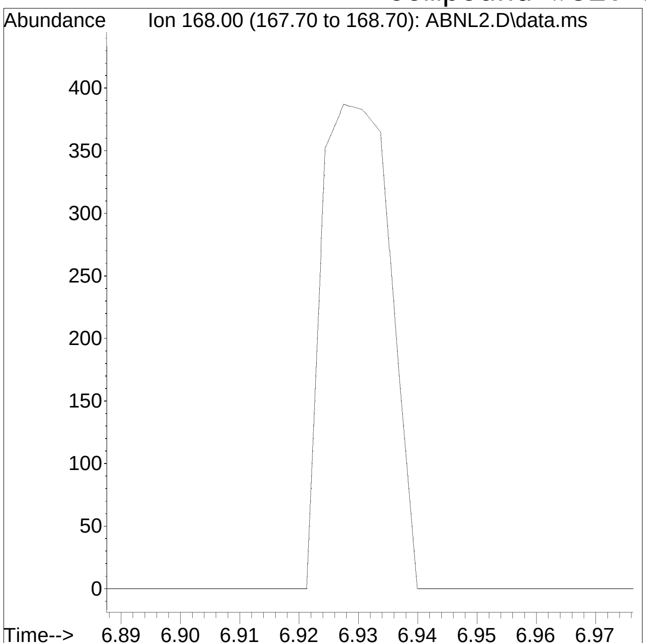

Original Peak Response = 1210          Manual Peak Response = 1113 M3

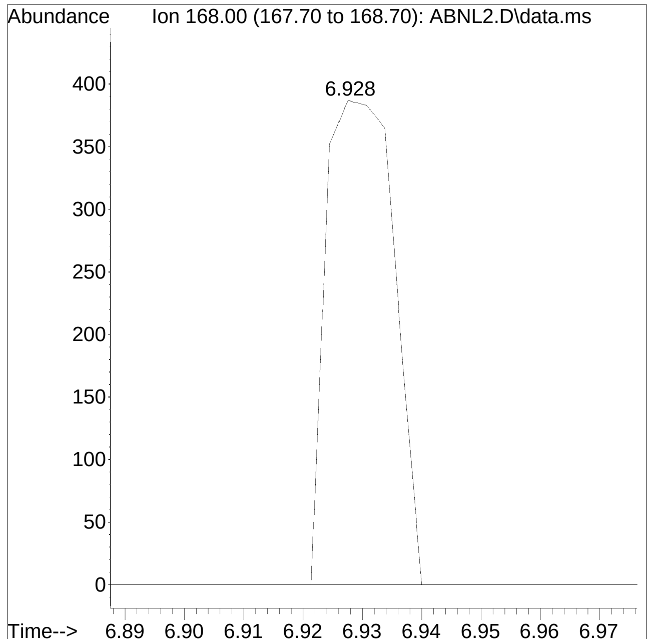
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

# Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL2.D                    Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  7:42 pm         Instrument  : Dakota
Sample      : IL9,32,,ABNL0.2 Lot# 11149Quant Date  : 11/6/2024  8:35 am
```

Compound #51: 1,4-Dinitrobenzene



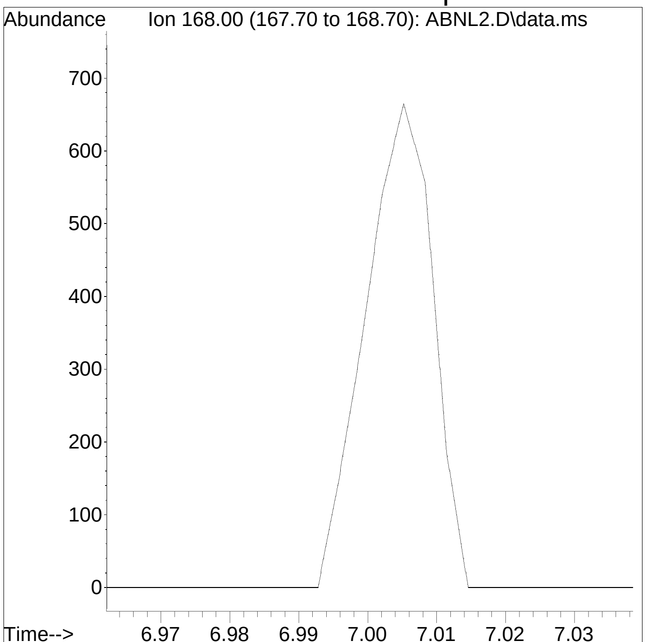

Original Peak Response = 0 Manual Peak Response = 309 M2

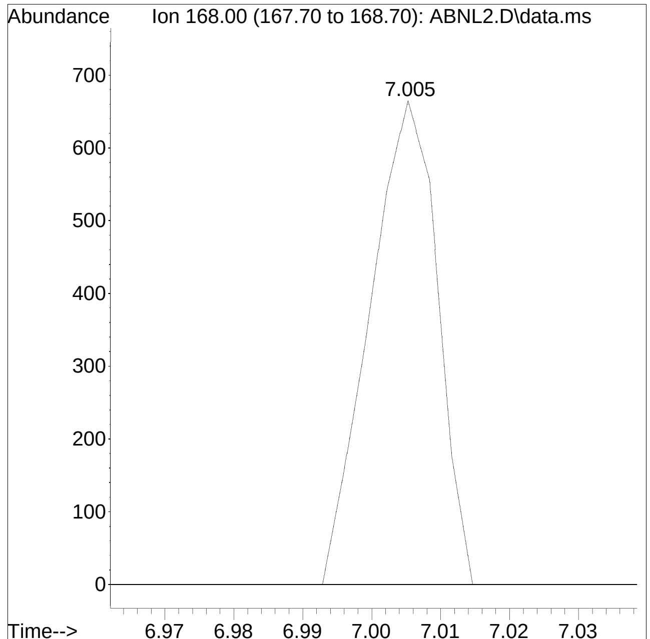
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL2.D                  Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  7:42 pm       Instrument  : Dakota
Sample      : IL9,32,,ABNL0.2 Lot# 11149Quant Date  : 11/6/2024  8:35 am
```

Compound #52: 1,3-Dinitrobenzene



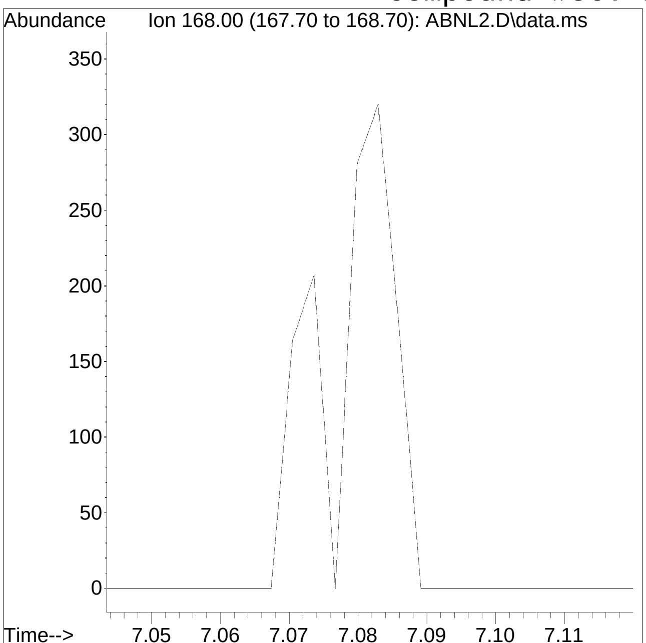

Original Peak Response = 0    Manual Peak Response = 453 M2

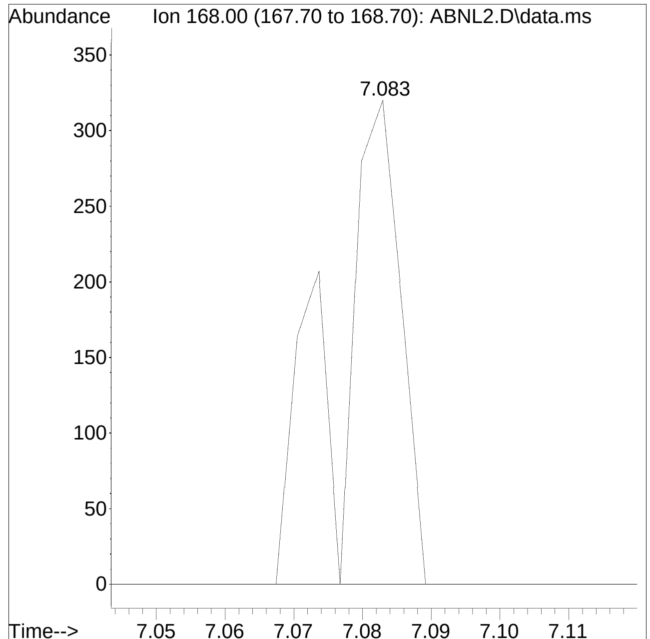
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ABNL2.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 7:42 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 11149Quant Date : 11/6/2024 8:35 am

Compound #56: 1,2-Dinitrobenzene



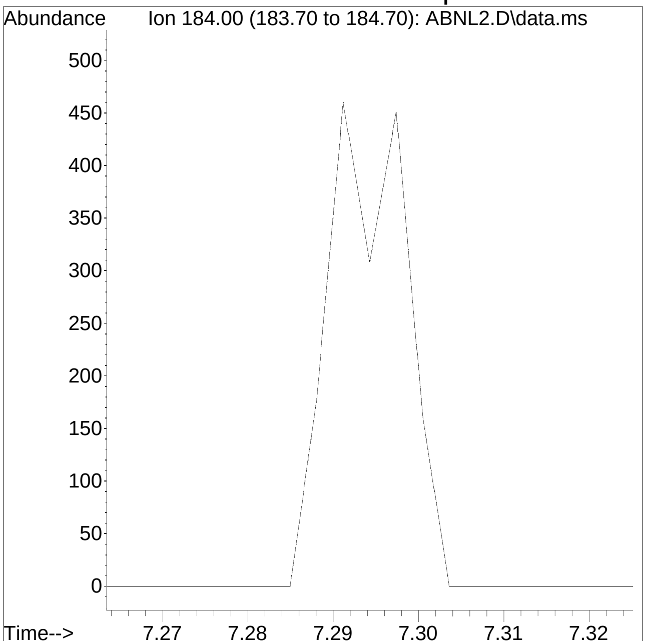



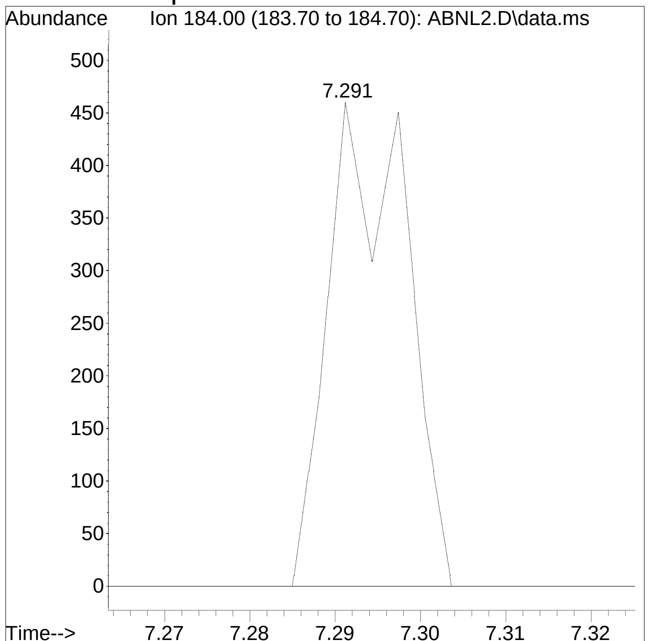

Original Peak Response = 0 Manual Peak Response = 212 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL2.D                  Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  7:42 pm       Instrument  : Dakota
Sample      : IL9,32,,ABNL0.2 Lot# 11149Quant Date  : 11/6/2024  8:35 am
```

Compound #68: 2,4-Dinitrophenol



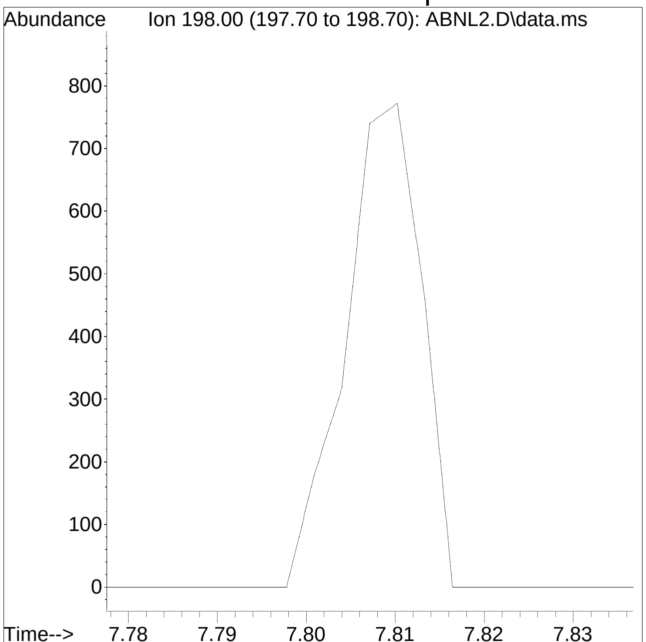

Original Peak Response = 0    Manual Peak Response = 291 M2

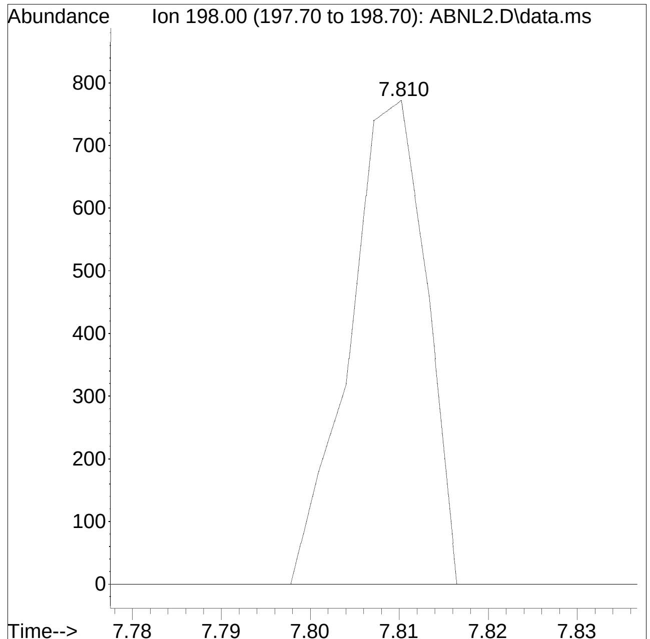
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL2.D                   Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  7:42 pm        Instrument  : Dakota
Sample      : IL9,32,,ABNL0.2 Lot# 11149Quant Date  : 11/6/2024  8:35 am
```

Compound #78: 4,6-Dinitro-o-cresol




Original Peak Response = 0        Manual Peak Response = 460 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report    (QT Reviewed)

```
Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL1.D
Acq On    :  5 Nov 2024   8:06 pm
Operator  : Dakota:HNY
Sample    : IL10,32,,ABNL0.1 Lot# 11150
Misc      : WG1994500
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Nov 06 09:17:45 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List     : ABNical - ABN ical sublist

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) IS1_1,4-Dichlorobenzen...   4.283  152     27369     4.000 ug/ml    0.00
   Standard Area 1 = 28960                 Recovery   =   94.51%
37) IS1_Naphthalene-d8          5.520  136     99976     4.000 ug/ml    0.00
   Standard Area 1 = 107558                 Recovery   =   92.95%
65) IS1_Acenaphthene-d10        7.210  164     64152     4.000 ug/ml    0.00
   Standard Area 1 = 69553                 Recovery   =   92.23%
90) IS1_Phenanthrene-d10        8.621  188    144467     4.000 ug/ml    0.00
   Standard Area 1 = 149813                 Recovery   =   96.43%
106) IS1_Chrysene-d12          11.189  240    161244     4.000 ug/ml    0.00
   Standard Area 1 = 173036                 Recovery   =   93.19%
115) IS1_Perylene-d12          12.609  264    182414     4.000 ug/ml    0.00
   Standard Area 1 = 203359                 Recovery   =   89.70%

 System Monitoring Compounds
 4) 2-Fluorophenol              2.999  112       718     0.112 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =    5.60%#
 7) Phenol-d6                   3.987   99      1069     0.129 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =    6.45%#
19) Nitrobenzene-d5             4.836   82       848     0.112 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   11.20%#
48) 2-Fluorobiphenyl            6.592  172      3465     0.136 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   13.60%#
81) 2,4,6-Tribromophenol        7.966  330       505     0.121 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =    6.05%#
98) 4-Terphenyl-d14            10.191  244      5994     0.154 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   15.40%#

 Target Compounds                                                Qvalue
 2) n-Nitrosodimethylamine      1.619   74       471M2    0.107 ug/ml
 3) Pyridine                    1.721   79       491M2    0.072 ug/ml
 5) Aniline                     3.972   93      1245      0.116 ug/ml#    83
 6) 2-Chlorophenol              4.081  128       966      0.124 ug/ml#    30
 8) Phenol                      4.000   94      1175      0.121 ug/ml#    74
 9) Bis(2-chloroethyl)ether     4.065   93       882      0.129 ug/ml#    65
10) 1,3-Dichlorobenzene         4.227  146      1361M3    0.119 ug/ml
11) 1,4-Dichlorobenzene         4.301  146      1449      0.130 ug/ml     94
12) 1,2-Dichlorobenzene         4.447  146      1160M3    0.108 ug/ml
13) Benzyl alcohol              4.457   79       695      0.115 ug/ml#    87
14) Bis(2-chloroisopropyl)...   4.596   45      1532      0.110 ug/ml#    48
```

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL1.D
Acq On    :  5 Nov 2024   8:06 pm
Operator  : Dakota:HNY
Sample    : IL10,32,,ABNL0.1 Lot# 11150
Misc      : WG1994500
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Nov 06 09:17:45 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List     : ABNical - ABN ical sublist
```

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 15) 2-Methylphenol | 4.593 | 108 | 890 | 0.131 ug/ml# | 87 |
| 16) Hexachloroethane | 4.774 | 117 | 541 | 0.133 ug/ml# | 53 |
| 17) n-Nitrosodi-n-propylamine | 4.727 | 70 | 767 | 0.135 ug/ml# | 59 |
| 18) 3-Methylphenol/4-Methy... | 4.752 | 108 | 1033 | 0.143 ug/ml# | 87 |
| 20) Nitrobenzene | 4.851 | 77 | 926 | 0.116 ug/ml# | 39 |
| 21) Isophorone | 5.100 | 82 | 1864 | 0.127 ug/ml# | 65 |
| 22) 2-Nitrophenol | 0.000 | | 0 | N.D. | |
| 23) 2,4-Dimethylphenol | 5.255 | 107 | 936 | 0.137 ug/ml# | 64 |
| 24) Bis(2-chloroethoxy)met... | 5.342 | 93 | 1098 | 0.117 ug/ml# | 50 |
| 25) 2,4-Dichlorophenol | 5.408 | 162 | 1059 | 0.124 ug/ml# | 73 |
| 26) 1,2,4-Trichlorobenzene | 5.479 | 180 | 1353 | 0.121 ug/ml# | 82 |
| 38) Naphthalene | 5.538 | 128 | 3631 | 0.135 ug/ml# | 52 |
| 39) Benzoic Acid | 5.314 | 105 | 144M2 | 1.648 ug/ml | |
| 40) 4-Chloroaniline | 5.625 | 65 | 375M2 | 0.107 ug/ml | |
| 41) Hexachlorobutadiene | 5.697 | 225 | 744 | 0.107 ug/ml# | 53 |
| 42) p-Chloro-m-cresol | 6.129 | 107 | 854 | 0.123 ug/ml# | 77 |
| 43) 2-Methylnaphthalene | 6.216 | 142 | 2612 | 0.138 ug/ml | 98 |
| 44) 1-Methylnaphthalene | 6.309 | 115 | 803 | 0.130 ug/ml | 84 |
| 45) Hexachlorocyclopentadiene | 6.390 | 237 | 743 | 0.111 ug/ml# | 27 |
| 46) 2,4,6-Trichlorophenol | 6.511 | 196 | 814 | 0.110 ug/ml# | 79 |
| 47) 2,4,5-Trichlorophenol | 6.536 | 196 | 998 | 0.123 ug/ml# | 81 |
| 49) 2-Chloronaphthalene | 6.679 | 162 | 2781 | 0.126 ug/ml# | 89 |
| 50) 2-Nitroaniline | 6.797 | 138 | 550 | 0.109 ug/ml# | 60 |
| 51) 1,4-Dinitrobenzene | 6.928 | 168 | 232M2 | 0.093 ug/ml | |
| 52) 1,3-Dinitrobenzene | 6.999 | 168 | 271M2 | 0.091 ug/ml | |
| 53) Dimethyl phthalate | 7.002 | 163 | 3294 | 0.125 ug/ml# | 77 |
| 54) Acenaphthylene | 7.067 | 152 | 3963 | 0.123 ug/ml# | 84 |
| 55) 2,6-Dinitrotoluene | 7.039 | 165 | 480M3 | 0.108 ug/ml | |
| 56) 1,2-Dinitrobenzene | 7.083 | 168 | 66M2 | 0.038 ug/ml | |
| 66) 3-Nitroaniline | 7.192 | 138 | 500 | 0.117 ug/ml# | 34 |
| 67) Acenaphthene | 7.238 | 154 | 2671 | 0.150 ug/ml | 94 |
| 68) 2,4-Dinitrophenol | 7.294 | 184 | 194M2 | 0.070 ug/ml | |
| 69) Dibenzofuran | 7.409 | 168 | 4484 | 0.145 ug/ml | 95 |
| 70) 2,4-Dinitrotoluene | 7.422 | 165 | 598 | 0.101 ug/ml# | 62 |
| 71) 4-Nitrophenol | 7.397 | 65 | 368M3 | 0.108 ug/ml | |
| 72) 2,3,5,6-Tetrachlorophenol | 7.506 | 232 | 745 | 0.119 ug/ml# | 73 |
| 73) 2,3,4,6-Tetrachlorophenol | 7.543 | 232 | 860 | 0.140 ug/ml# | 68 |
| 74) Diethyl phthalate | 7.689 | 149 | 3507 | 0.145 ug/ml# | 85 |
| 75) Fluorene | 7.736 | 166 | 3304 | 0.137 ug/ml# | 85 |
| 76) 4-Chlorophenyl phenyl ... | 7.764 | 204 | 1762 | 0.141 ug/ml# | 84 |

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL1.D
Acq On : 5 Nov 2024 8:06 pm
Operator : Dakota:HNY
Sample : IL10,32,,ABNL0.1 Lot# 11150
Misc : WG1994500
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 06 09:17:45 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 77) 4-Nitroaniline | 7.773 | 138 | 378M2 | 0.080 ug/ml | |
| 78) 4,6-Dinitro-o-cresol | 7.810 | 198 | 385M2 | 0.476 ug/ml | |
| 79) NDPA/DPA | 7.879 | 169 | 3050 | 0.146 ug/ml | 97 |
| 80) Azobenzene | 7.910 | 77 | 2486 | 0.128 ug/ml# | 80 |
| 82) 4-Bromophenyl phenyl e... | 8.227 | 248 | 1158 | 0.146 ug/ml# | 76 |
| 83) Hexachlorobenzene | 8.267 | 284 | 1435 | 0.143 ug/ml# | 33 |
| 84) Pentachlorophenol | 8.466 | 266 | 597 | 0.109 ug/ml# | 19 |
| 91) Phenanthrene | 8.646 | 178 | 5979 | 0.146 ug/ml | 99 |
| 92) Anthracene | 8.693 | 178 | 5679 | 0.140 ug/ml | 97 |
| 93) Carbazole | 8.864 | 167 | 4793 | 0.125 ug/ml | 96 |
| 94) Di-n-butylphthalate | 9.271 | 149 | 5118 | 0.121 ug/ml# | 79 |
| 95) Fluoranthene | 9.781 | 202 | 7016 | 0.138 ug/ml# | 92 |
| 96) Benzidine | 9.946 | 184 | 2944 | 0.102 ug/ml# | 68 |
| 97) Pyrene | 9.989 | 202 | 7325 | 0.136 ug/ml | 96 |
| 99) Butyl benzyl phthalate | 10.704 | 149 | 2048 | 0.114 ug/ml# | 83 |
| 107) Benzo(a)anthracene | 11.179 | 228 | 7534 | 0.142 ug/ml | 98 |
| 108) 3,3'-Dichlorobenzidine | 11.195 | 252 | 2367 | 0.121 ug/ml# | 86 |
| 109) Chrysene | 11.217 | 228 | 7896 | 0.154 ug/ml | 98 |
| 110) Bis(2-ethylhexyl)phtha... | 11.332 | 149 | 3348 | 0.119 ug/ml# | 88 |
| 111) Di-n-octylphthalate | 11.994 | 149 | 5561 | 0.120 ug/ml# | 55 |
| 112) Benzo(b)fluoranthene | 12.252 | 252 | 7346 | 0.135 ug/ml# | 95 |
| 113) Benzo(k)fluoranthene | 12.277 | 252 | 7028 | 0.131 ug/ml# | 92 |
| 114) Benzo(a)pyrene | 12.553 | 252 | 6027 | 0.121 ug/ml# | 94 |
| 116) Indeno(1,2,3-cd)pyrene | 13.542 | 276 | 7287 | 0.131 ug/mL# | 90 |
| 117) Dibenzo(a,h)anthracene | 13.566 | 278 | 6856 | 0.125 ug/ml# | 92 |
| 118) Benzo(ghi)perylene | 13.747 | 276 | 7053 | 0.133 ug/ml# | 88 |

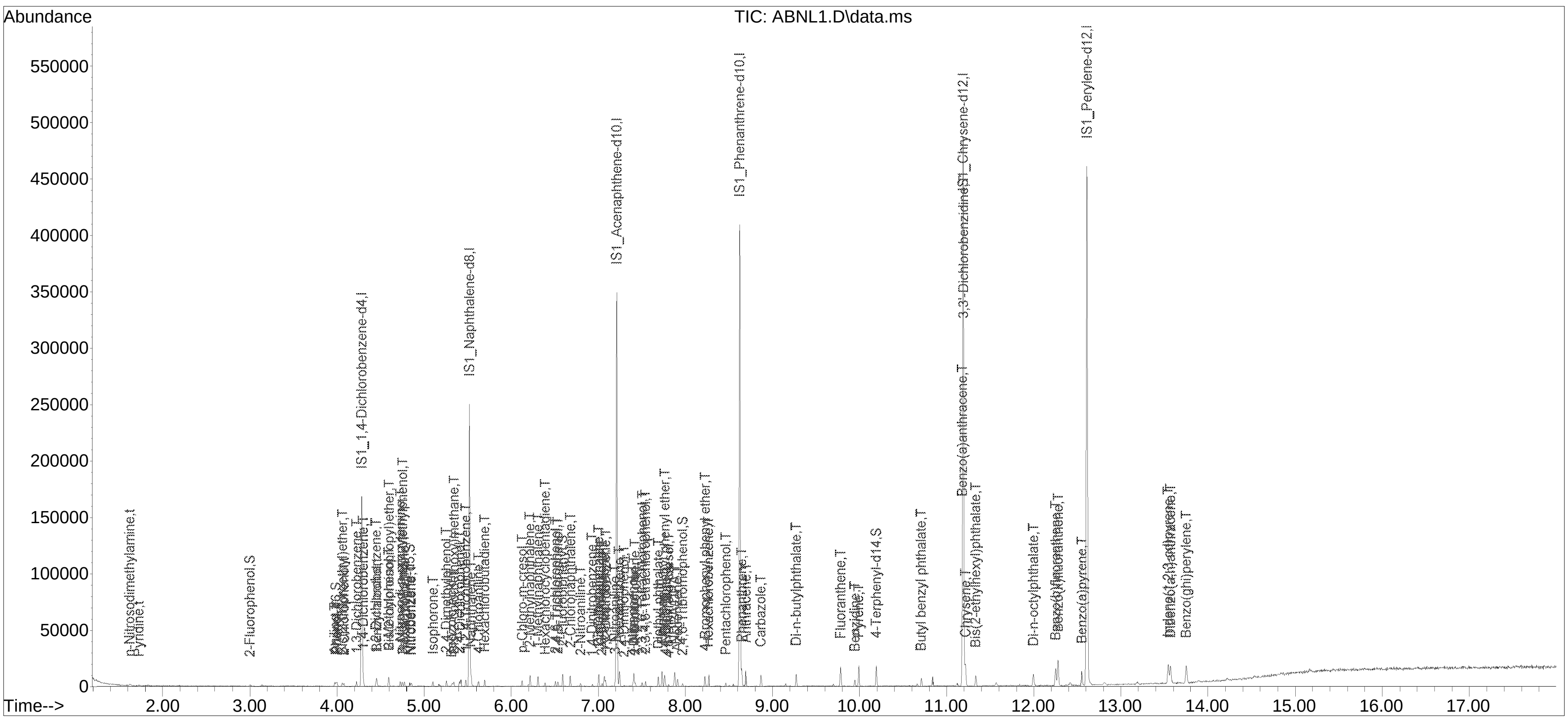
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL1.D
Acq On    :  5 Nov 2024   8:06 pm
Operator  : Dakota:HNY
Sample    : IL10,32,,ABNL0.1 Lot# 11150
Misc      : WG1994500
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Nov 06 09:17:45 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

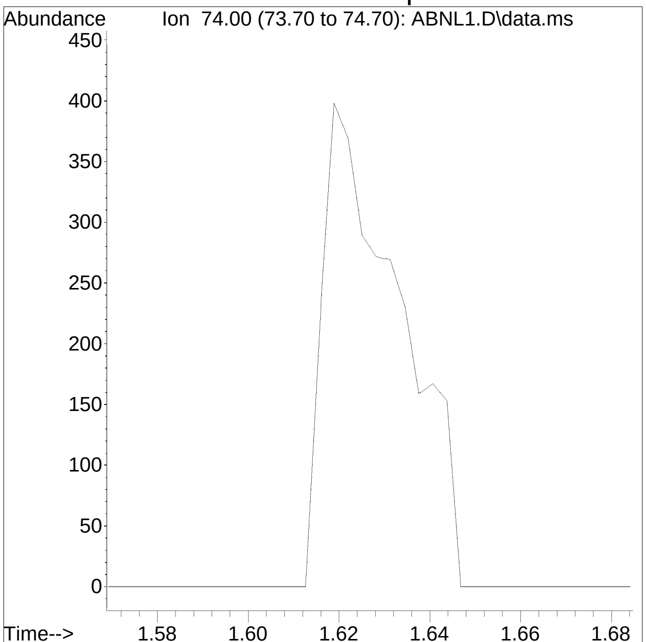
Sub List     : ABNical - ABN ical sublistVTICAL\ABNL6.D•

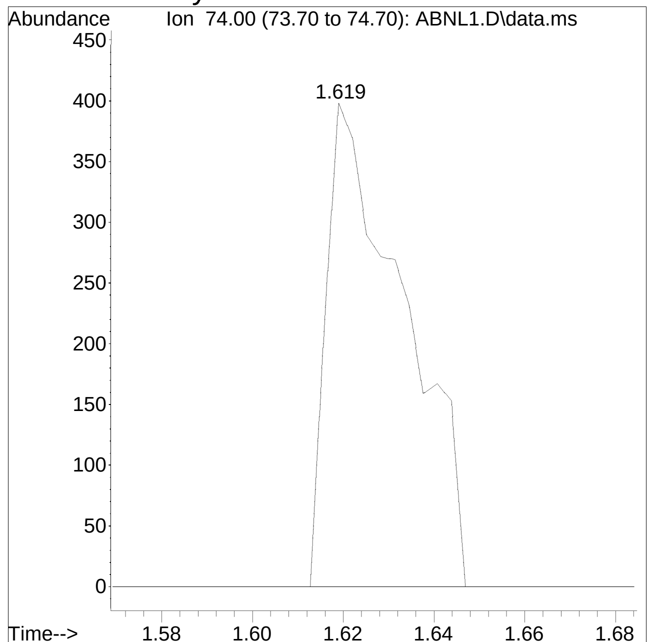


Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL1.D                   Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  8:06 pm        Instrument  : Dakota
Sample      : IL10,32,,ABNL0.1 Lot# 1115Quant Date  : 11/6/2024  8:35 am
```

Compound #2: n-Nitrosodimethylamine



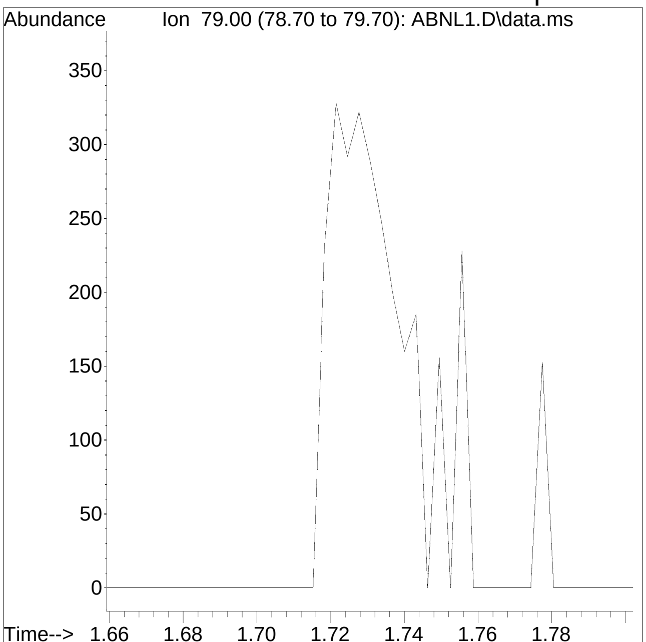

Original Peak Response = 0 Manual Peak Response = 471 M2

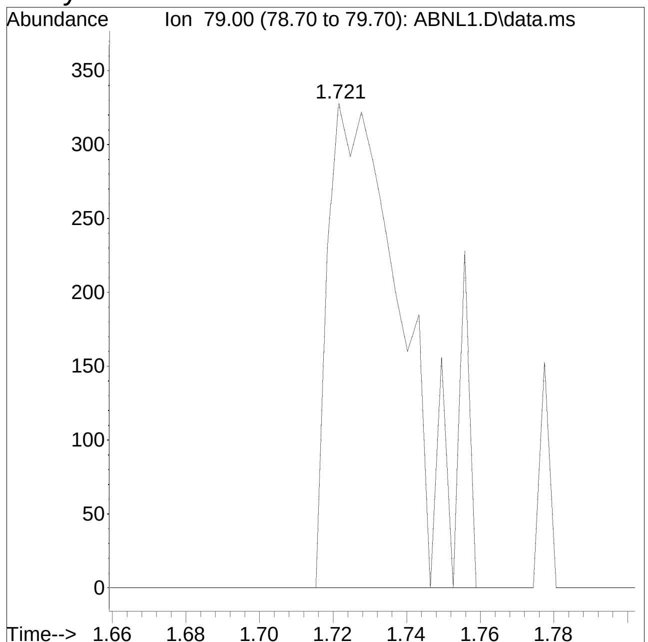
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL1.D                   Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  8:06 pm        Instrument  : Dakota
Sample      : IL10,32,,ABNL0.1 Lot# 1115Quant Date  : 11/6/2024  8:35 am
```

Compound #3: Pyridine



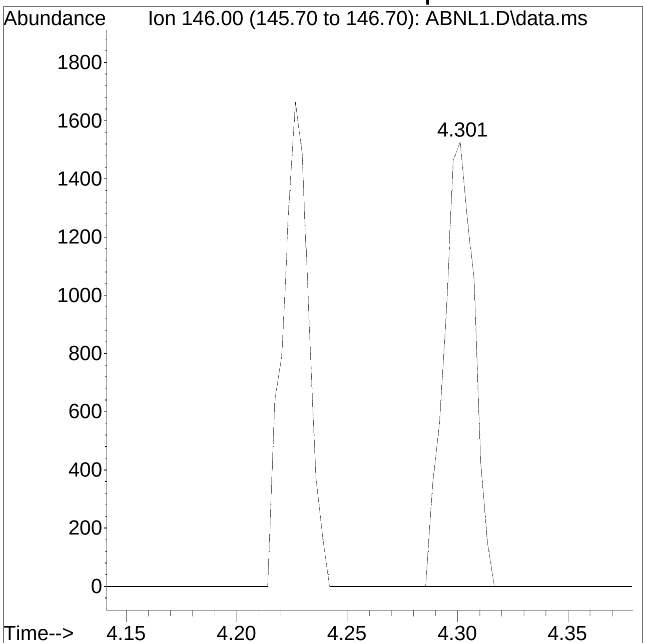

Original Peak Response = 0            Manual Peak Response = 491 M2

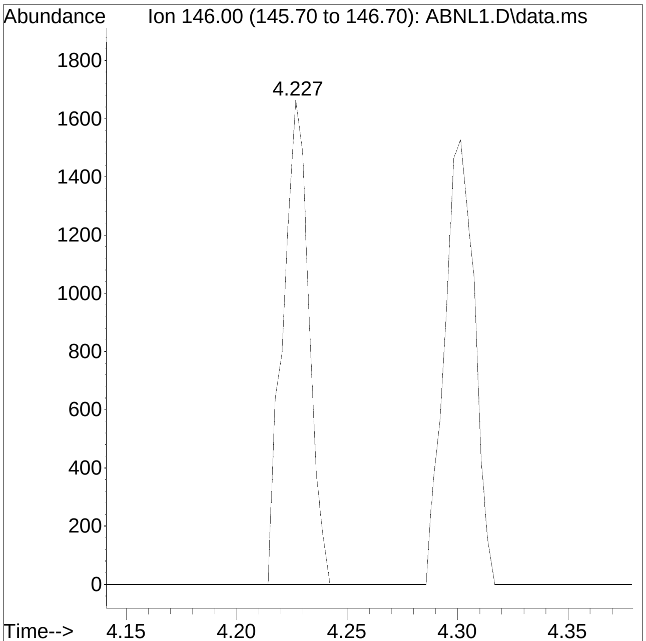
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 8:06 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1115Quant Date : 11/6/2024 8:35 am

Compound #10: 1,3-Dichlorobenzene



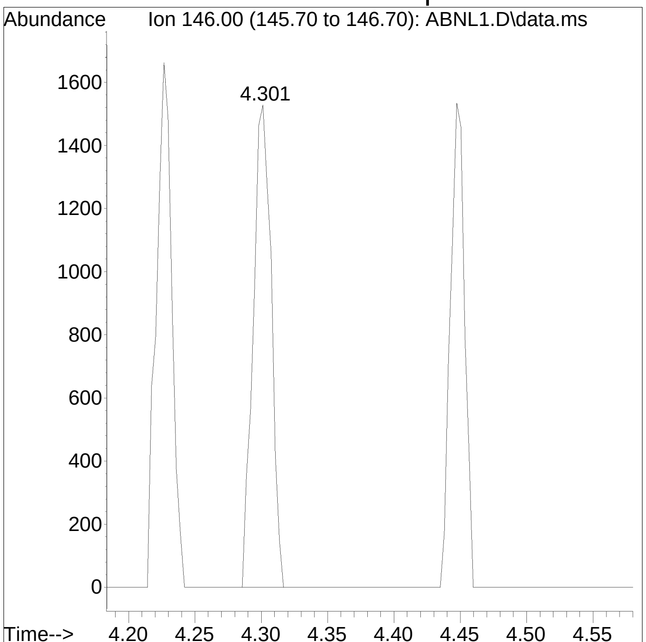



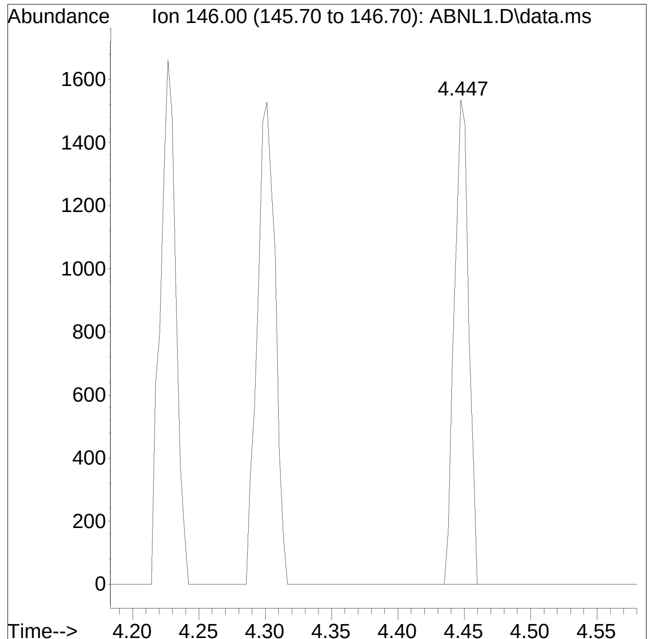

Original Peak Response = 1449 Manual Peak Response = 1361 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL1.D                   Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  8:06 pm        Instrument  : Dakota
Sample      : IL10,32,,ABNL0.1 Lot# 1115Quant Date  : 11/6/2024  8:35 am
```

Compound #12: 1,2-Dichlorobenzene



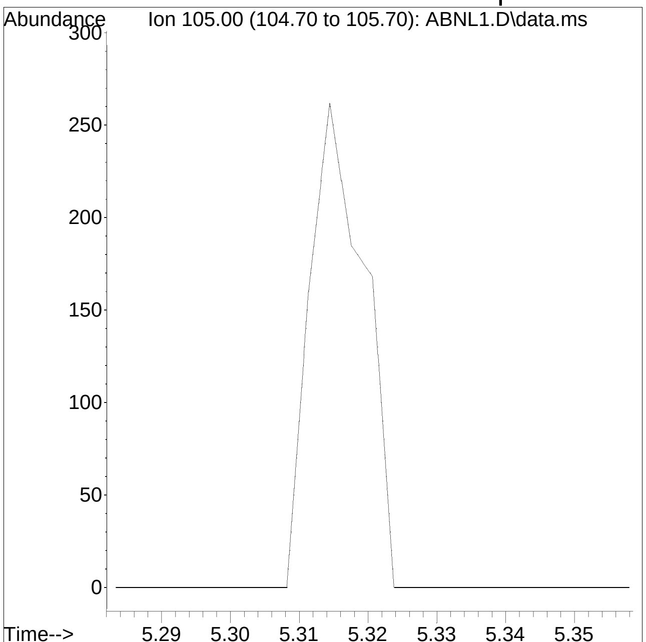

Original Peak Response = 1449        Manual Peak Response = 1160 M3

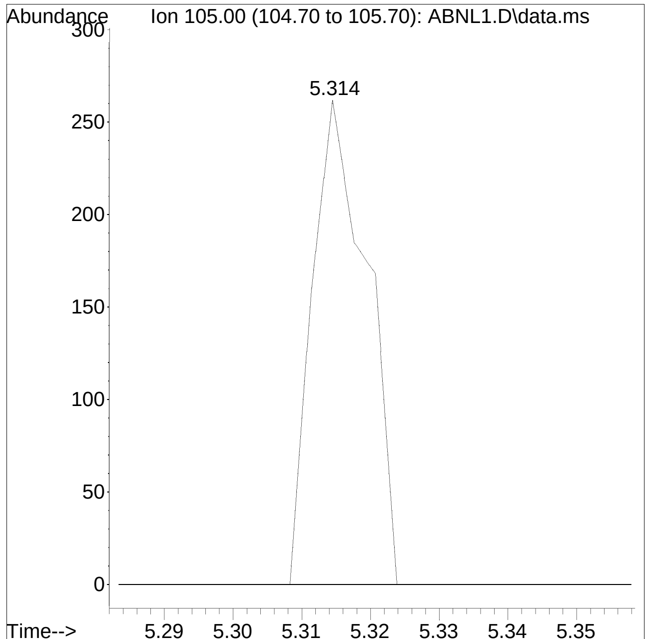
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 8:06 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1115Quant Date : 11/6/2024 8:35 am

Compound #39: Benzoic Acid



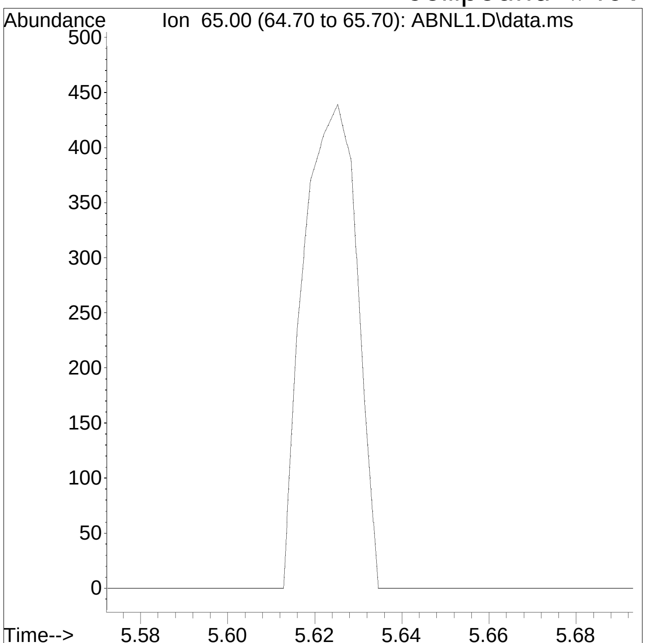



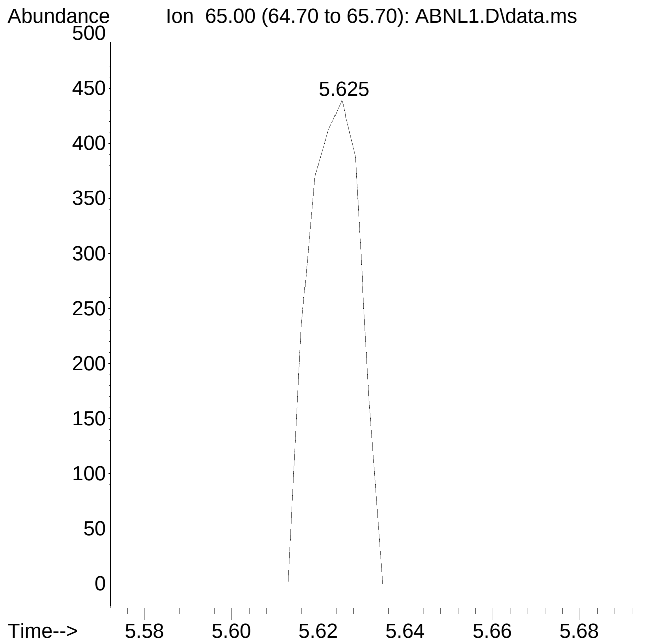

Original Peak Response = 0 Manual Peak Response = 144 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL1.D                   Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  8:06 pm        Instrument  : Dakota
Sample      : IL10,32,,ABNL0.1 Lot# 1115Quant Date  : 11/6/2024  8:35 am
```

Compound #40: 4-Chloroaniline



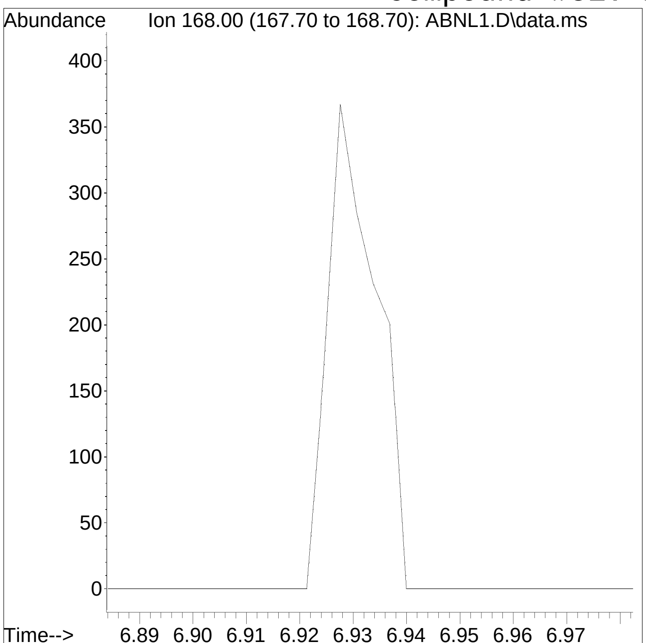

Original Peak Response = 0　　Manual Peak Response = 375 M2

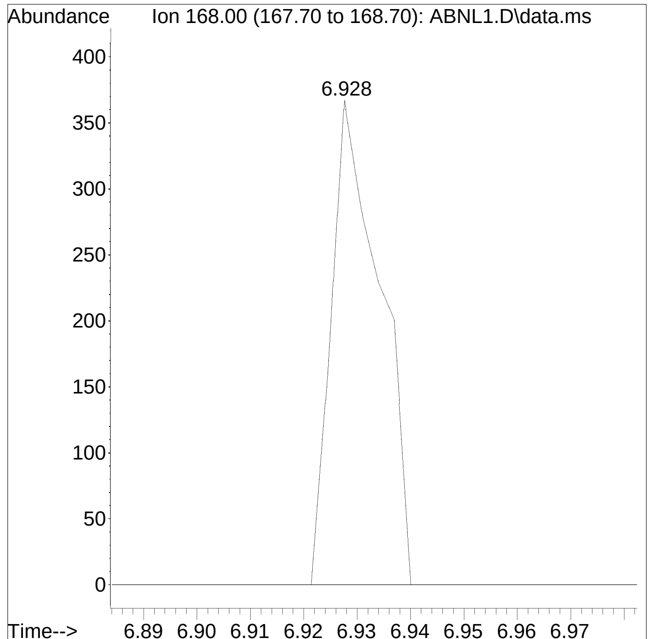
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 8:06 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1115Quant Date : 11/6/2024 8:35 am

Compound #51: 1,4-Dinitrobenzene



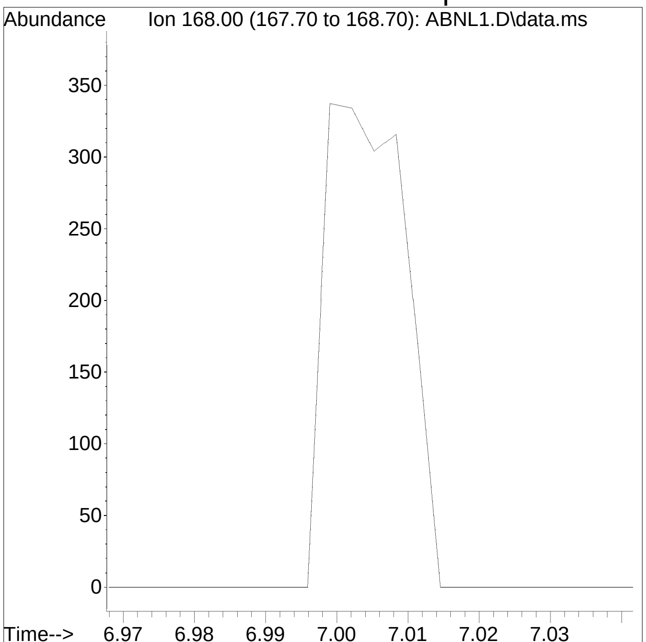



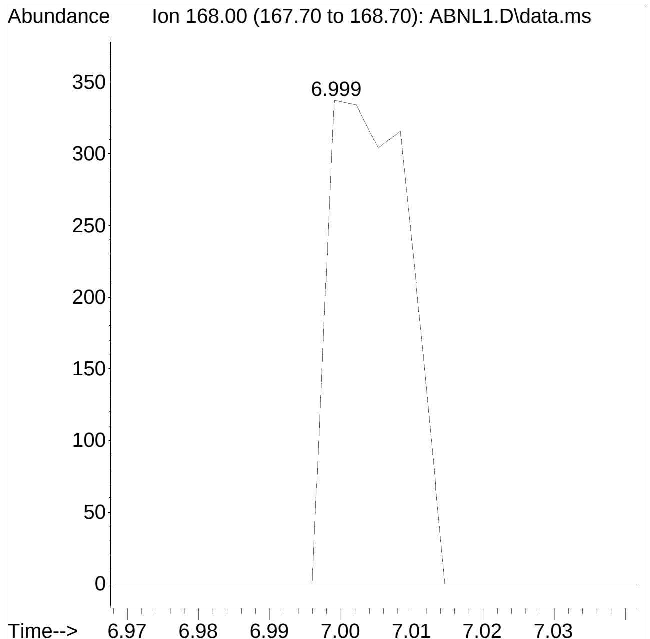

Original Peak Response = 0 Manual Peak Response = 232 M2
M2 = Peak not found by automatic integration algorithm.

# Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 8:06 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1115Quant Date : 11/6/2024 8:35 am

Compound #52: 1,3-Dinitrobenzene



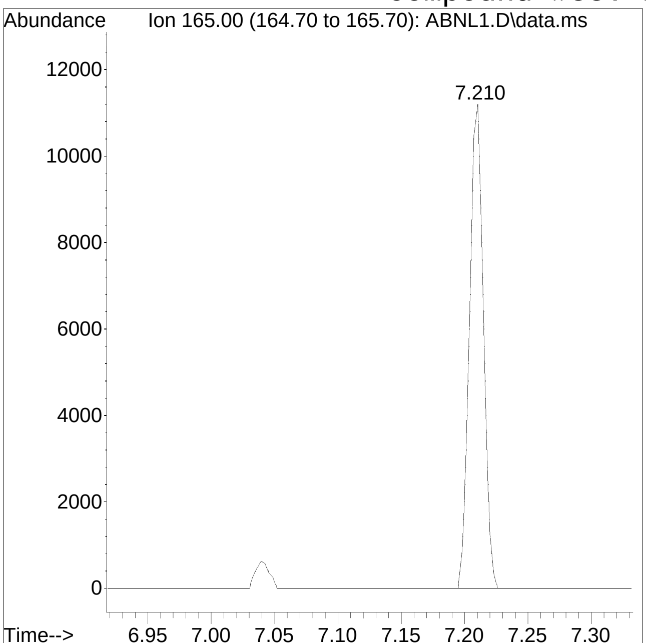



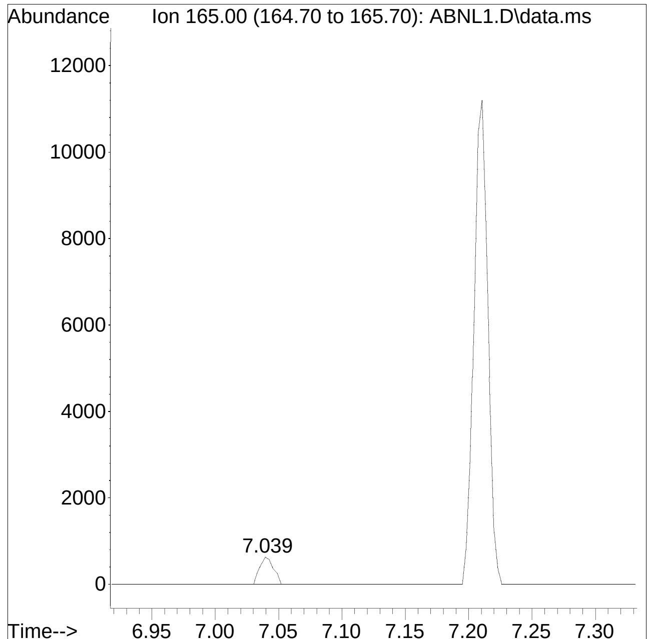

Original Peak Response = 0 Manual Peak Response = 271 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL1.D                    Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  8:06 pm         Instrument  : Dakota
Sample      : IL10,32,,ABNL0.1 Lot# 1115Quant Date  : 11/6/2024  8:35 am
```

Compound #55: 2,6-Dinitrotoluene




Original Peak Response = 8586        Manual Peak Response = 480 M3

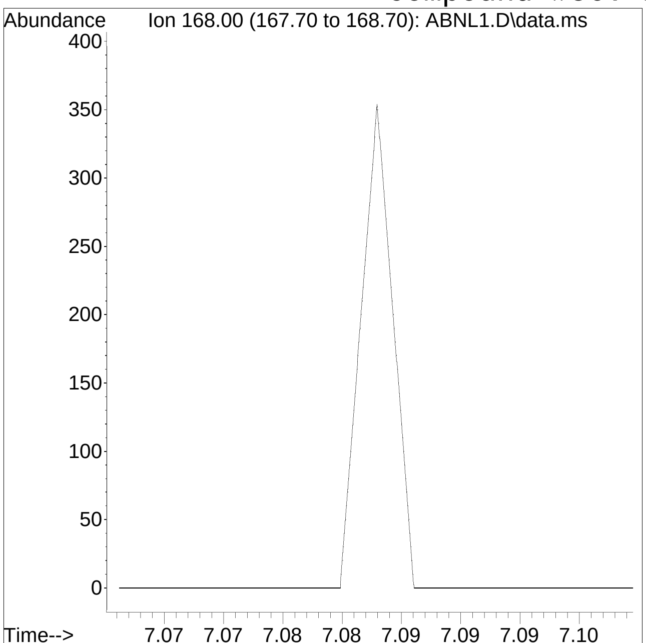
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

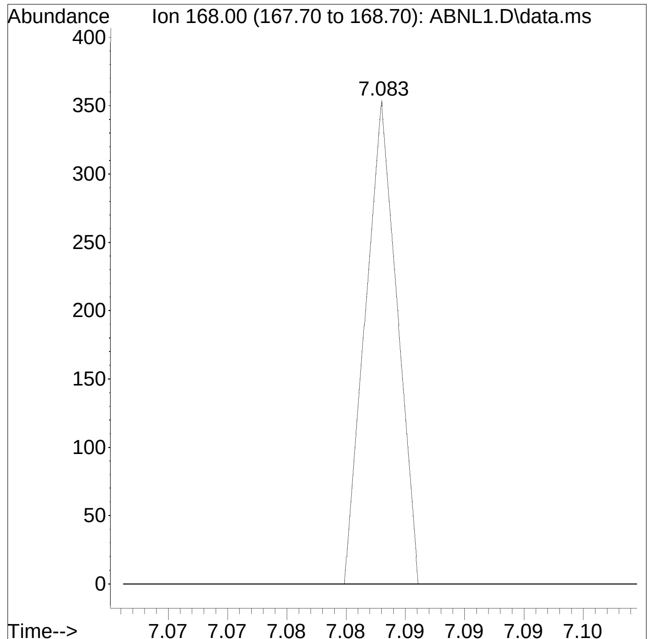
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL1.D
Date Inj'd : 11/5/2024 8:06 pm
Sample : IL10,32,,ABNL0.1 Lot# 1115

Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:35 am

Compound #56: 1,2-Dinitrobenzene




Original Peak Response = 0

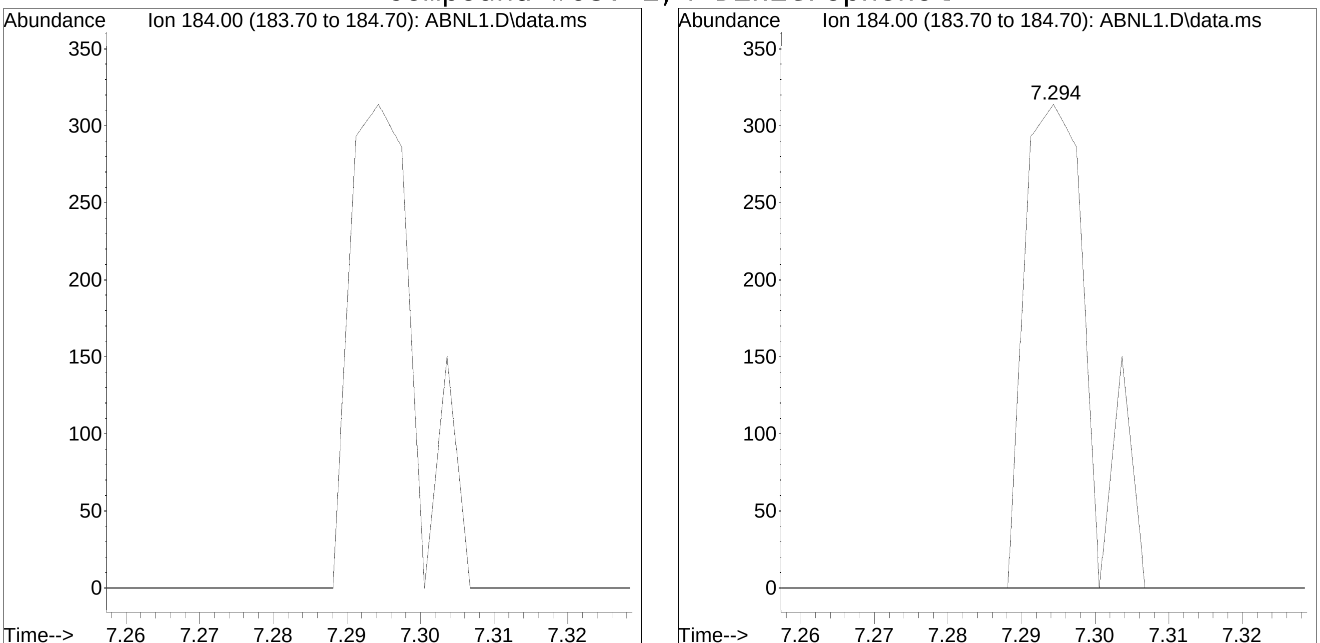
Manual Peak Response = 66 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL1.D                      Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  8:06 pm           Instrument  : Dakota
Sample      : IL10,32,,ABNL0.1 Lot# 1115Quant Date  : 11/6/2024  8:35 am
```

Compound #68: 2,4-Dinitrophenol



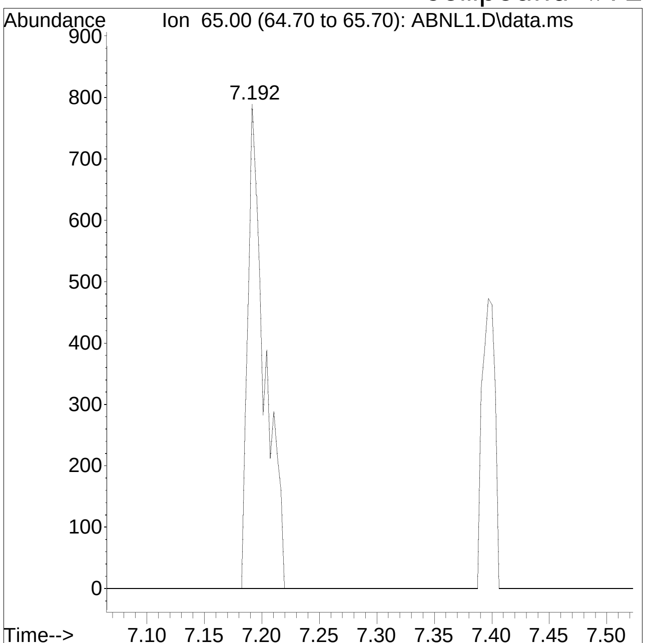

Original Peak Response = 0          Manual Peak Response = 194 M2

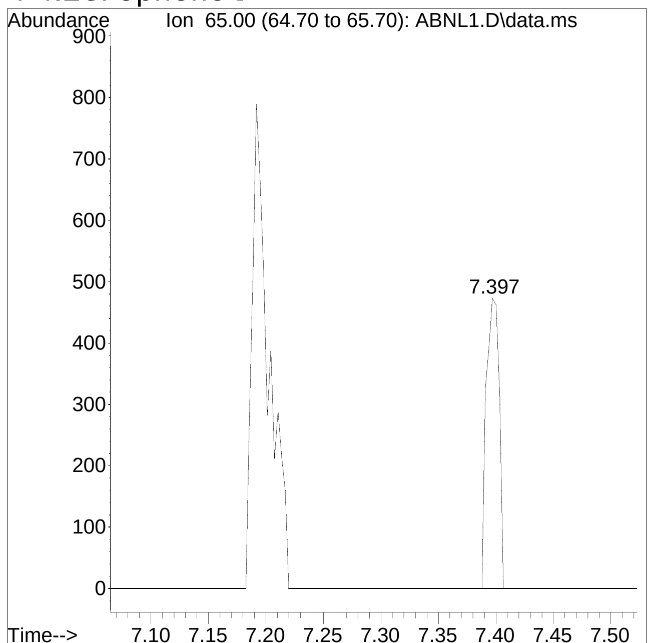
M2 = Peak not found by automatic integration algorithm.

# Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL1.D                   Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  8:06 pm        Instrument  : Dakota
Sample      : IL10,32,,ABNL0.1 Lot# 1115Quant Date  : 11/6/2024  8:35 am
```

Compound #71: 4-Nitrophenol



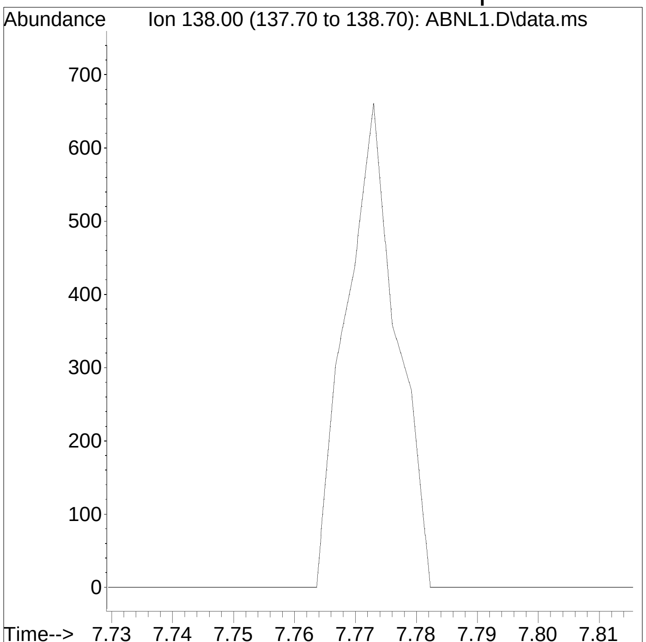

Original Peak Response = 804          Manual Peak Response = 368 M3

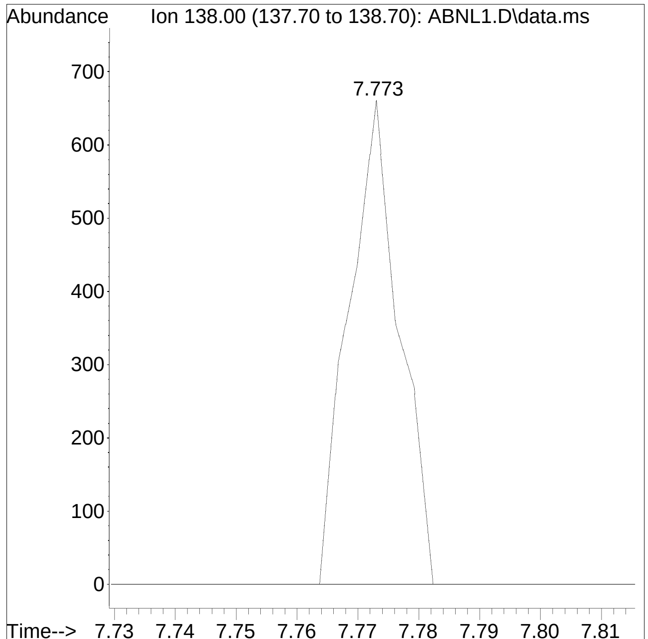
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL1.D                       Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  8:06 pm            Instrument  : Dakota
Sample      : IL10,32,,ABNL0.1 Lot# 1115Quant Date  : 11/6/2024  8:35 am
```

Compound #77: 4-Nitroaniline



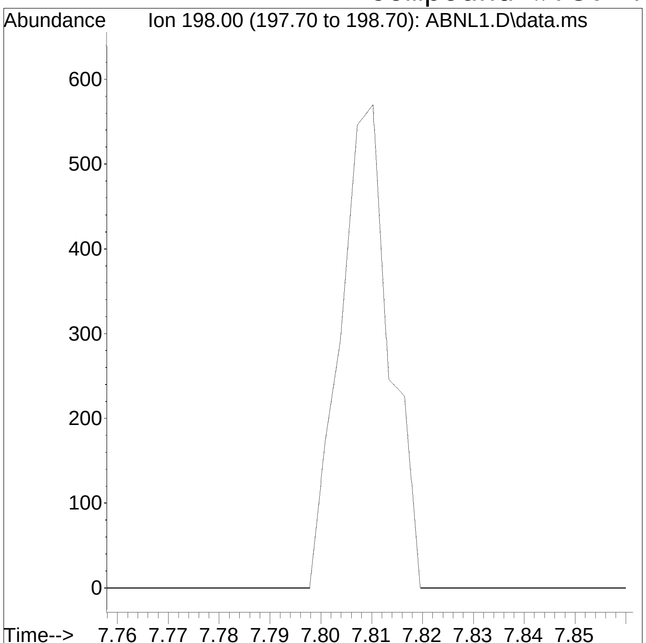

Original Peak Response = 0 Manual Peak Response = 378 M2

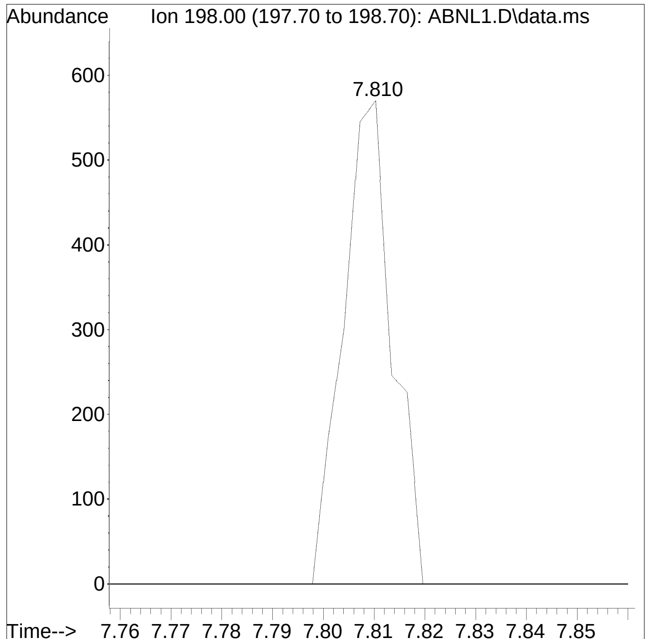
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNL1.D                  Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  8:06 pm       Instrument  : Dakota
Sample      : IL10,32,,ABNL0.1 Lot# 1115Quant Date  : 11/6/2024  8:35 am
```

Compound #78: 4,6-Dinitro-o-cresol




Original Peak Response = 0          Manual Peak Response = 385 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L9.D
Acq On : 5 Nov 2024 8:29 pm
Operator : Dakota:HNY
Sample : IL2,32,,AP9L50 Lot# 11120
Misc : WG1994500
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 06 09:39:08 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 27) IS2_1,4-Dichlorobenzen... | 4.286 | 152 | 30987 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 28342 | | | Recovery = | 109.33% | |
| 57) IS2_Naphthalene-d8 | 5.520 | 136 | 111920 | 4.000 ug/ml | # 0.00 |
| Standard Area 1 = 98544 | | | Recovery = | 113.57% | |
| 85) IS2_Acenaphthene-d10 | 7.210 | 164 | 71063 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 64361 | | | Recovery = | 110.41% | |
| 100) IS2_Phenanthrene-d10 | 8.625 | 188 | 160716 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 142493 | | | Recovery = | 112.79% | |
| System Monitoring Compounds | | | | | |
| Target Compounds | | | | | Qvalue |
| 28) Benzaldehyde | 3.844 | 105 | 304408 | 47.565 ug/ml | 97 |
| 29) Acetophenone | 4.696 | 105 | 601234 | 50.020 ug/ml# | 80 |
| 30) m-Toluidine | 4.780 | 106 | 545570 | 50.658 ug/ml | 95 |
| 31) 2-Chloroaniline | 5.137 | 127 | 584754 | 51.772 ug/ml# | 91 |
| 58) a-Terpineol | 5.594 | 59 | 350560 | 49.690 ug/ml# | 80 |
| 59) 3-Chloroaniline | 5.607 | 65 | 174464 | 46.089 ug/ml | 90 |
| 60) 2,6-Dichlorophenol | 5.632 | 162 | 460446 | 49.506 ug/ml# | 82 |
| 61) 1-chloro-2-nitrobenzene | 5.880 | 111 | 185947 | 55.337 ug/ml# | 1 |
| 62) Caprolactam | 5.945 | 55 | 199011 | 47.711 ug/ml# | 75 |
| 63) 1,2,4,5-Tetrachloroben... | 6.390 | 216 | 599935 | 44.098 ug/ml | 97 |
| 64) Biphenyl | 6.682 | 154 | 1225314 | 44.550 ug/ml | 96 |
| 86) Dichloran | 8.339 | 206 | 192620 | 58.409 ug/ml# | 59 |
| 87) Pentachloronitrobenzene | 8.482 | 237 | 196056 | 47.568 ug/ml# | 76 |
| 101) Diphenamid | 9.545 | 167 | 952562 | 48.801 ug/ml# | 75 |

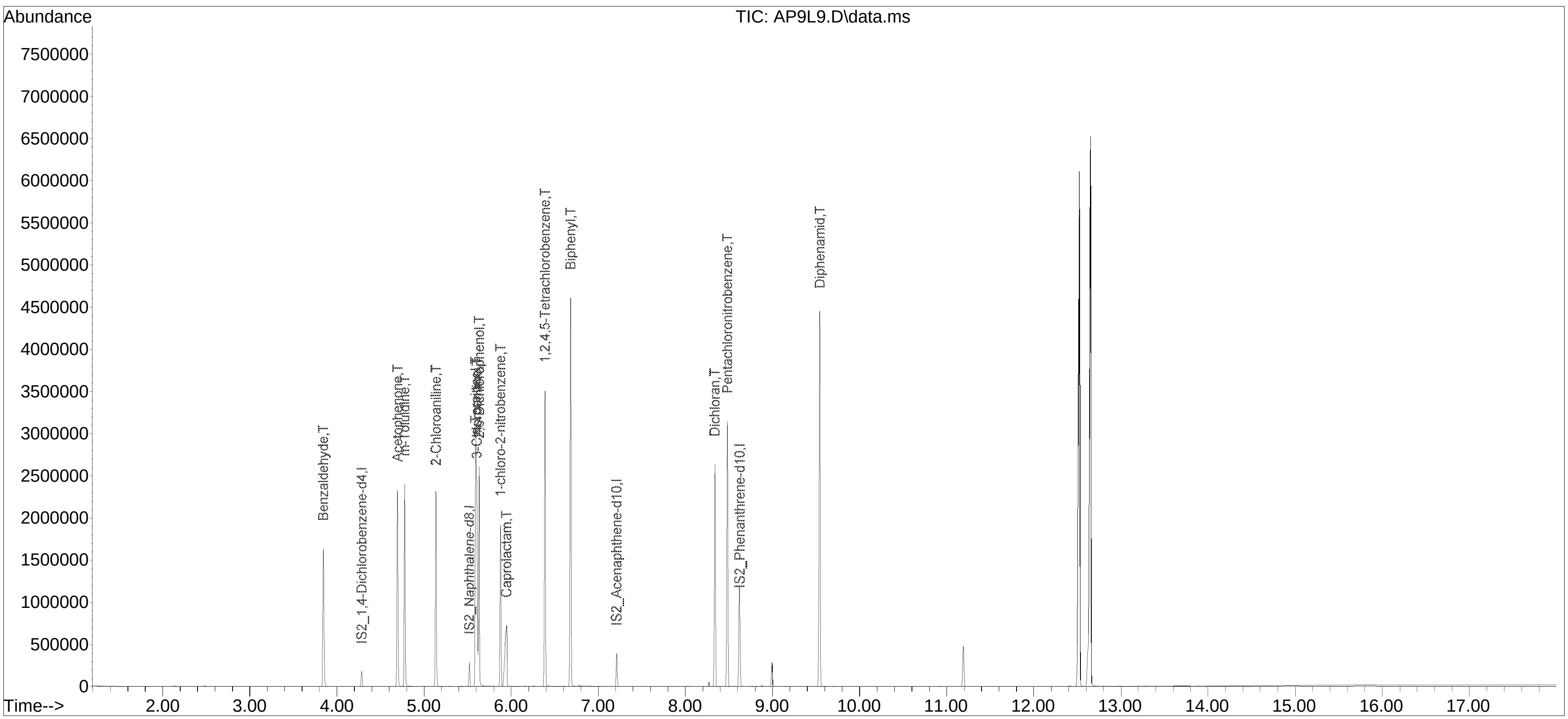
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L9.D
Acq On    :  5 Nov 2024   8:29 pm
Operator  : Dakota:HNY
Sample    : IL2,32,,AP9L50 Lot# 11120
Misc      : WG1994500
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Nov 06 09:39:08 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List     : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : AP9L9.D                        Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  8:29 pm             Instrument  : Dakota
Sample      : IL2,32,,AP9L50 Lot# 11120 Quant Date  : 11/6/2024  8:39 am
```

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L8.D
Acq On : 5 Nov 2024 8:53 pm
Operator : Dakota:HNY
Sample : IL3,32,,AP9L25 Lot# 11121
Misc : WG1994500
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 06 09:38:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 27) IS2_1,4-Dichlorobenzen... | 4.282 | 152 | 29753 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 28342 | | | Recovery = | 104.98% | |
| 57) IS2_Naphthalene-d8 | 5.519 | 136 | 106459 | 4.000 ug/ml | # 0.00 |
| Standard Area 1 = 98544 | | | Recovery = | 108.03% | |
| 85) IS2_Acenaphthene-d10 | 7.210 | 164 | 68191 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 64361 | | | Recovery = | 105.95% | |
| 100) IS2_Phenanthrene-d10 | 8.624 | 188 | 151604 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 142493 | | | Recovery = | 106.39% | |
| System Monitoring Compounds | | | | | |
| Target Compounds | | | | | Qvalue |
| 28) Benzaldehyde | 3.844 | 105 | 151455 | 24.647 ug/ml | 97 |
| 29) Acetophenone | 4.693 | 105 | 299052 | 25.912 ug/ml# | 79 |
| 30) m-Toluidine | 4.777 | 106 | 270898 | 26.197 ug/ml | 95 |
| 31) 2-Chloroaniline | 5.134 | 127 | 289933 | 26.734 ug/ml# | 91 |
| 58) a-Terpineol | 5.591 | 59 | 173589 | 25.867 ug/ml# | 81 |
| 59) 3-Chloroaniline | 5.603 | 65 | 86165 | 23.930 ug/ml | 94 |
| 60) 2,6-Dichlorophenol | 5.628 | 162 | 225556 | 25.495 ug/ml# | 82 |
| 61) 1-chloro-2-nitrobenzene | 5.877 | 111 | 91193 | 28.531 ug/ml# | 1 |
| 62) Caprolactam | 5.933 | 55 | 97330 | 24.531 ug/ml# | 73 |
| 63) 1,2,4,5-Tetrachloroben... | 6.387 | 216 | 299740 | 23.163 ug/ml# | 96 |
| 64) Biphenyl | 6.679 | 154 | 610900 | 23.350 ug/ml | 97 |
| 86) Dichloran | 8.335 | 206 | 91383 | 28.878 ug/ml# | 58 |
| 87) Pentachloronitrobenzene | 8.482 | 237 | 93939 | 24.101 ug/ml# | 75 |
| 101) Diphenamid | 9.538 | 167 | 468543 | 25.447 ug/ml# | 75 |

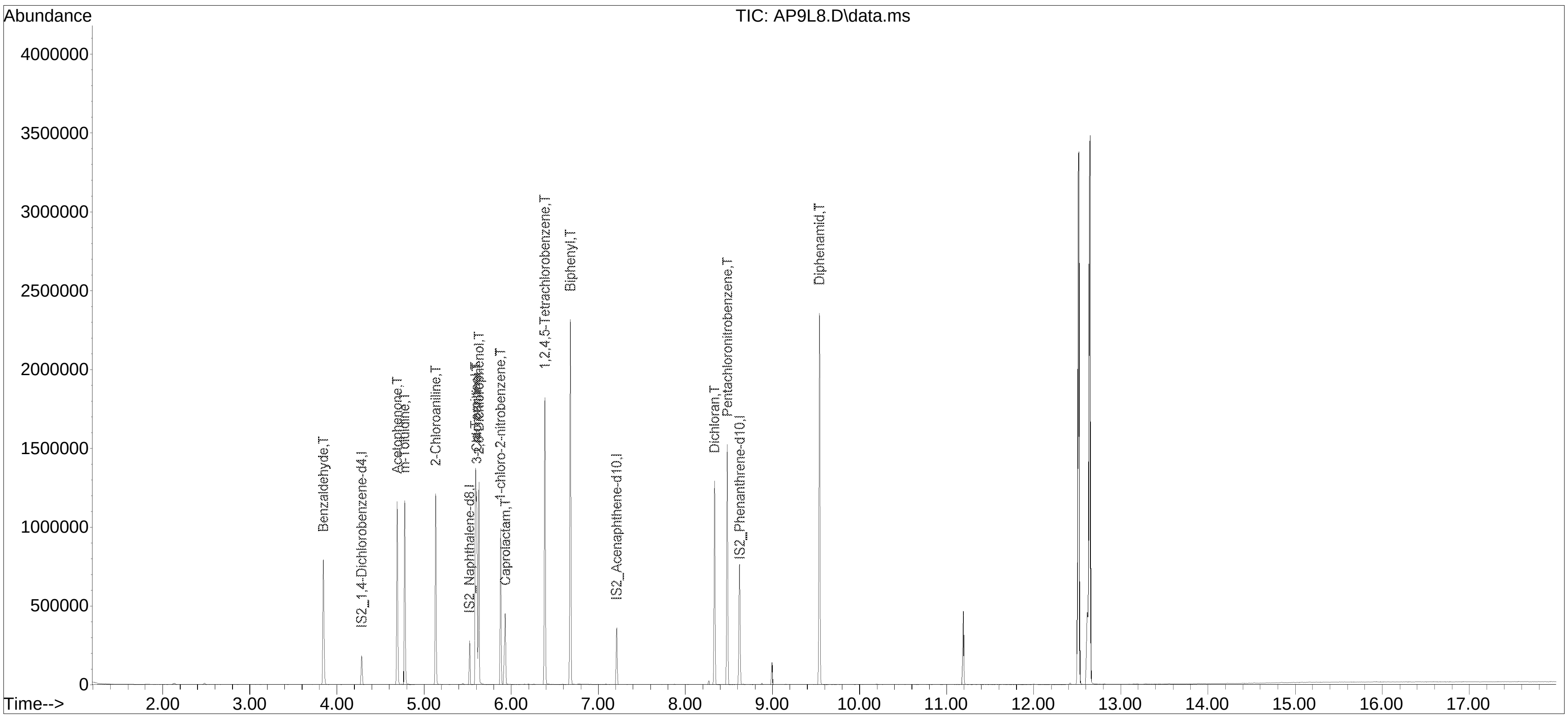
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L8.D
Acq On : 5 Nov 2024 8:53 pm
Operator : Dakota:HNY
Sample : IL3,32,,AP9L25 Lot# 11121
Misc : WG1994500
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 06 09:38:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : AP9L8.D                  Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  8:53 pm       Instrument  : Dakota
Sample      : IL3,32,,AP9L25 Lot# 11121 Quant Date  : 11/6/2024  8:39 am
```

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L7.D
Acq On : 5 Nov 2024 9:16 pm
Operator : Dakota:HNY
Sample : IL4,32,,AP9L10 Lot# 11122
Misc : WG1994500
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 06 09:37:55 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 27) IS2_1,4-Dichlorobenzen... | 4.283 | 152 | 28253 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 28342 | | | Recovery = | 99.69% | |
| 57) IS2_Naphthalene-d8 | 5.520 | 136 | 102348 | 4.000 ug/ml | # 0.00 |
| Standard Area 1 = 98544 | | | Recovery = | 103.86% | |
| 85) IS2_Acenaphthene-d10 | 7.210 | 164 | 64900 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 64361 | | | Recovery = | 100.84% | |
| 100) IS2_Phenanthrene-d10 | 8.622 | 188 | 142251 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 142493 | | | Recovery = | 99.83% | |
| System Monitoring Compounds | | | | | |
| Target Compounds | | | | | Qvalue |
| 28) Benzaldehyde | 3.844 | 105 | 54373 | 9.318 ug/ml | 97 |
| 29) Acetophenone | 4.693 | 105 | 107439 | 9.803 ug/ml# | 80 |
| 30) m-Toluidine | 4.777 | 106 | 98213 | 10.002 ug/ml | 95 |
| 31) 2-Chloroaniline | 5.134 | 127 | 103932 | 10.092 ug/ml# | 90 |
| 58) a-Terpineol | 5.588 | 59 | 61054 | 9.463 ug/ml# | 79 |
| 59) 3-Chloroaniline | 5.600 | 65 | 30940 | 8.938 ug/ml | 89 |
| 60) 2,6-Dichlorophenol | 5.625 | 162 | 81177 | 9.544 ug/ml# | 81 |
| 61) 1-chloro-2-nitrobenzene | 5.877 | 111 | 31835 | 10.360 ug/ml# | 1 |
| 62) Caprolactam | 5.921 | 55 | 33902 | 8.888 ug/ml# | 74 |
| 63) 1,2,4,5-Tetrachloroben... | 6.387 | 216 | 106694 | 8.576 ug/ml# | 97 |
| 64) Biphenyl | 6.679 | 154 | 222491 | 8.846 ug/ml | 97 |
| 86) Dichloran | 8.332 | 206 | 29962 | 9.948 ug/ml# | 58 |
| 87) Pentachloronitrobenzene | 8.479 | 237 | 30894 | 8.784 ug/ml# | 75 |
| 101) Diphenamid | 9.535 | 167 | 162112 | 9.383 ug/ml# | 75 |

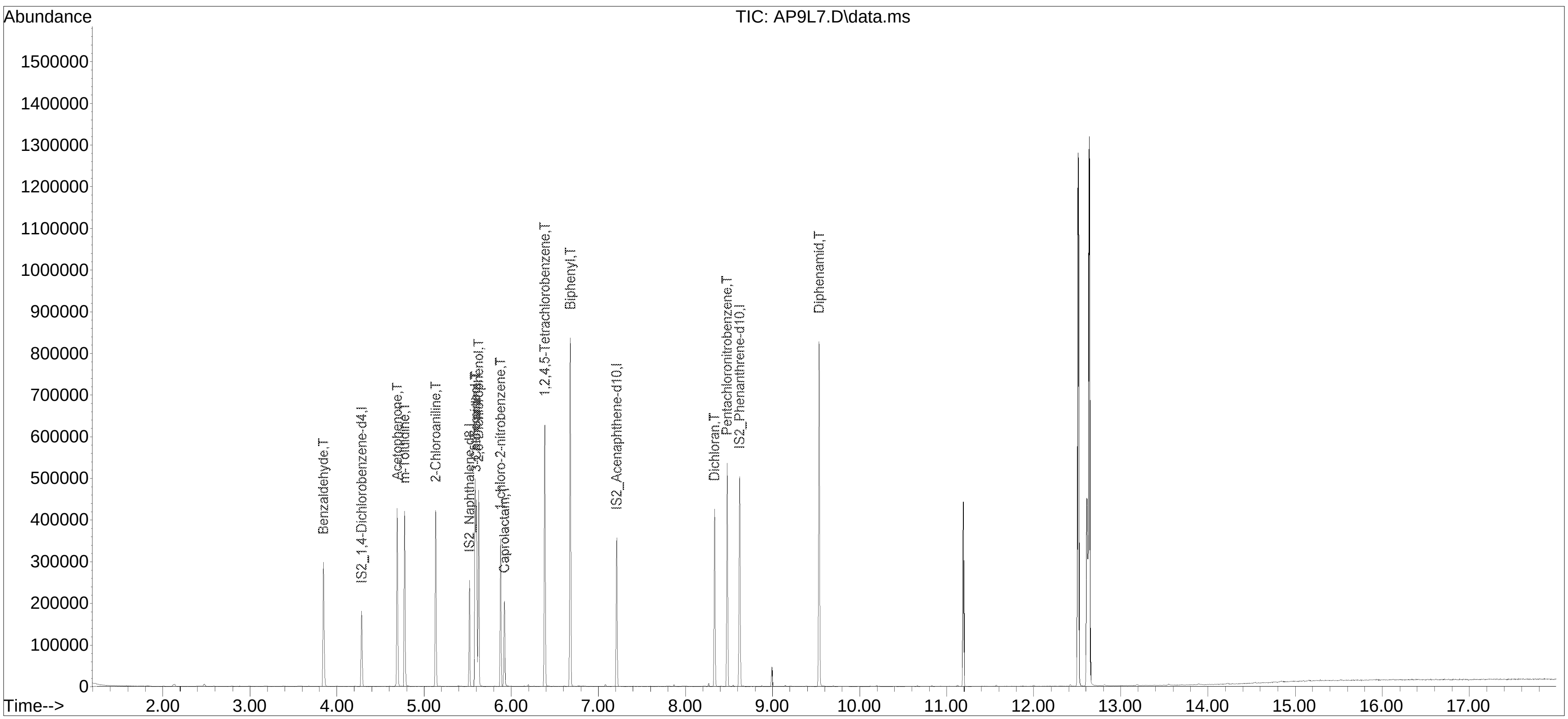
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L7.D
Acq On : 5 Nov 2024 9:16 pm
Operator : Dakota:HNY
Sample : IL4,32,,AP9L10 Lot# 11122
Misc : WG1994500
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 06 09:37:55 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•




FS241105RVT_Dakota.m Tue Nov 12 12:26:00 2024 Page: 2

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : AP9L7.D                    Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024  9:16 pm         Instrument  : Dakota
Sample      : IL4,32,,AP9L10 Lot# 11122 Quant Date  : 11/6/2024  8:38 am
```

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L6.D
Acq On : 5 Nov 2024 9:39 pm
Operator : Dakota:HNY
Sample : IL5,32,,AP9L5 Lot# 11123
Misc : WG1994500
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 06 09:37:30 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 27) IS2_1,4-Dichlorobenzen... | 4.282 | 152 | 28342 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 28342 | | | Recovery | = 100.00% | |
| 57) IS2_Naphthalene-d8 | 5.519 | 136 | 98544 | 4.000 ug/ml | # 0.00 |
| Standard Area 1 = 98544 | | | Recovery | = 100.00% | |
| 85) IS2_Acenaphthene-d10 | 7.210 | 164 | 64361 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 64361 | | | Recovery | = 100.00% | |
| 100) IS2_Phenanthrene-d10 | 8.621 | 188 | 142493 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 142493 | | | Recovery | = 100.00% | |
| System Monitoring Compounds | | | | | |
| Target Compounds | | | | | Qvalue |
| 28) Benzaldehyde | 3.847 | 105 | 26993 | 4.611 ug/ml | 97 |
| 29) Acetophenone | 4.696 | 105 | 51821 | 4.714 ug/ml# | 79 |
| 30) m-Toluidine | 4.776 | 106 | 46870 | 4.758 ug/ml | 94 |
| 31) 2-Chloroaniline | 5.134 | 127 | 50567 | 4.895 ug/ml# | 90 |
| 58) a-Terpineol | 5.588 | 59 | 28933 | 4.658 ug/ml# | 77 |
| 59) 3-Chloroaniline | 5.600 | 65 | 15441 | 4.633 ug/ml | 94 |
| 60) 2,6-Dichlorophenol | 5.625 | 162 | 39296 | 4.798 ug/ml# | 82 |
| 61) 1-chloro-2-nitrobenzene | 5.877 | 111 | 15544 | 5.254 ug/ml# | 1 |
| 62) Caprolactam | 5.914 | 55 | 15648 | 4.261 ug/ml# | 75 |
| 63) 1,2,4,5-Tetrachloroben... | 6.386 | 216 | 53831 | 4.494 ug/ml# | 95 |
| 64) Biphenyl | 6.679 | 154 | 110500 | 4.563 ug/ml | 98 |
| 86) Dichloran | 8.332 | 206 | 13287 | 4.449 ug/ml# | 60 |
| 87) Pentachloronitrobenzene | 8.478 | 237 | 14522 | 4.530 ug/ml# | 79 |
| 101) Diphenamid | 9.535 | 167 | 77258 | 4.464 ug/ml# | 75 |

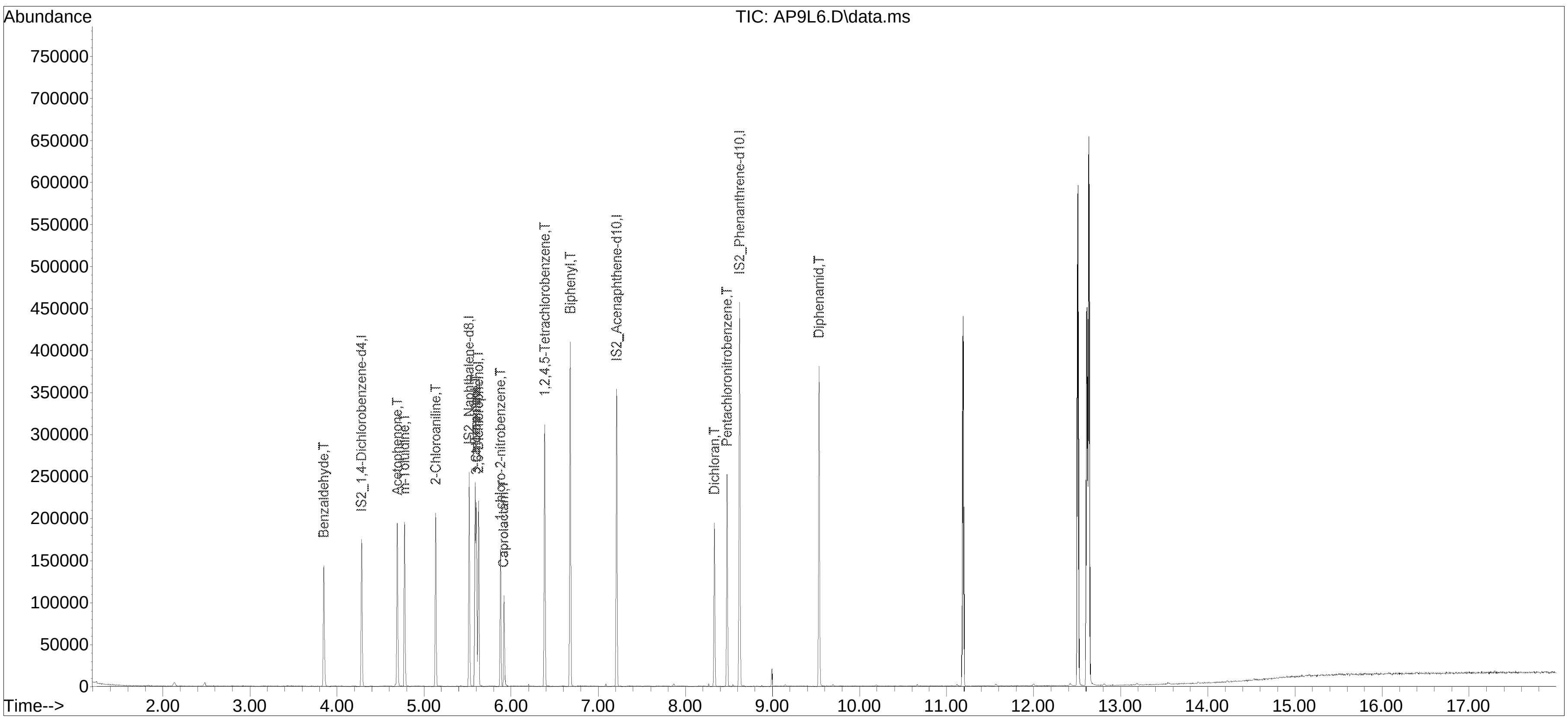
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L6.D
Acq On : 5 Nov 2024 9:39 pm
Operator : Dakota:HNY
Sample : IL5,32,,AP9L5 Lot# 11123
Misc : WG1994500
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 06 09:37:30 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : AP9L6.D                    Operator   : Dakota:HNY
Date Inj'd  : 11/5/2024  9:39 pm         Instrument : Dakota
Sample      : IL5,32,,AP9L5 Lot# 11123  Quant Date : 11/6/2024  8:38 am
```

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L5.D
Acq On : 5 Nov 2024 10:03 pm
Operator : Dakota:HNY
Sample : IL6,32,,AP9L2.5 Lot# 11124
Misc : WG1994500
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 06 09:36:56 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 27) IS2_1,4-Dichlorobenzen... | 4.283 | 152 | 28127 | 4.000 | ug/ml | 0.00 |
| Standard Area 1 = 28342 | | | Recovery = | 99.24% | | |
| 57) IS2_Naphthalene-d8 | 5.520 | 136 | 101422 | 4.000 | ug/ml | 0.00 |
| Standard Area 1 = 98544 | | | Recovery = | 102.92% | | |
| 85) IS2_Acenaphthene-d10 | 7.210 | 164 | 65158 | 4.000 | ug/ml | 0.00 |
| Standard Area 1 = 64361 | | | Recovery = | 101.24% | | |
| 100) IS2_Phenanthrene-d10 | 8.622 | 188 | 143298 | 4.000 | ug/ml | 0.00 |
| Standard Area 1 = 142493 | | | Recovery = | 100.56% | | |
| System Monitoring Compounds | | | | | | |
| Target Compounds | | | | | | Qvalue |
| 28) Benzaldehyde | 3.848 | 105 | 12268 | 2.112 | ug/ml | 99 |
| 29) Acetophenone | 4.696 | 105 | 23923 | 2.193 | ug/ml# | 81 |
| 30) m-Toluidine | 4.780 | 106 | 22093 | 2.260 | ug/ml | 93 |
| 31) 2-Chloroaniline | 5.134 | 127 | 23952 | 2.336 | ug/ml# | 90 |
| 58) a-Terpineol | 5.588 | 59 | 13333 | 2.085 | ug/ml# | 75 |
| 59) 3-Chloroaniline | 5.600 | 65 | 6723 | 1.960 | ug/ml | 84 |
| 60) 2,6-Dichlorophenol | 5.625 | 162 | 18101 | 2.148 | ug/ml# | 79 |
| 61) 1-chloro-2-nitrobenzene | 5.877 | 111 | 7212 | 2.368 | ug/ml# | 1 |
| 62) Caprolactam | 5.914 | 55 | 7181 | 1.900 | ug/ml# | 72 |
| 63) 1,2,4,5-Tetrachloroben... | 6.387 | 216 | 25415 | 2.062 | ug/ml# | 96 |
| 64) Biphenyl | 6.679 | 154 | 52147 | 2.092 | ug/ml | 97 |
| 86) Dichloran | 8.332 | 206 | 5931 | 1.961 | ug/ml# | 62 |
| 87) Pentachloronitrobenzene | 8.479 | 237 | 6694 | 2.442 | ug/ml# | 77 |
| 101) Diphenamid | 9.535 | 167 | 34942 | 2.008 | ug/ml# | 74 |

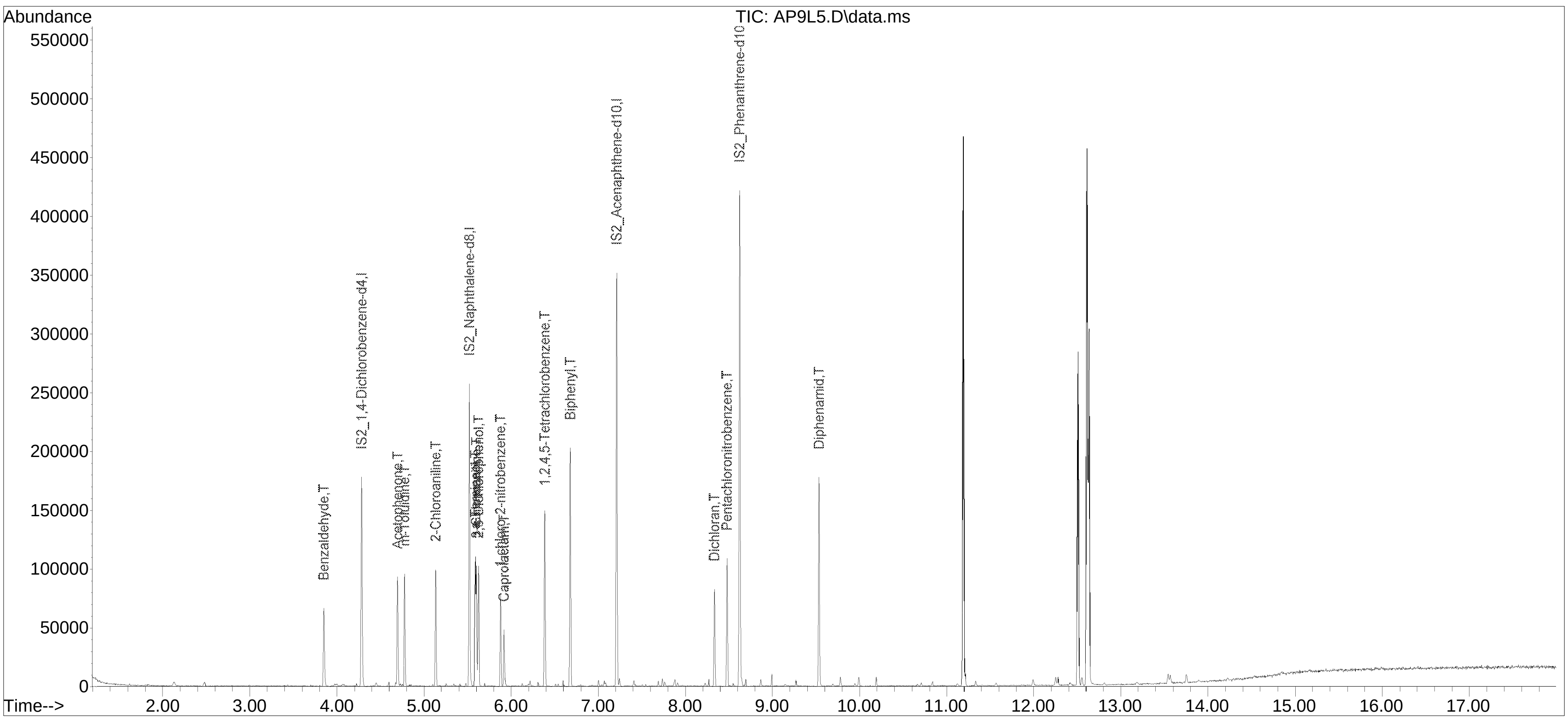
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L5.D
Acq On : 5 Nov 2024 10:03 pm
Operator : Dakota:HNY
Sample : IL6,32,,AP9L2.5 Lot# 11124
Misc : WG1994500
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 06 09:36:56 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



# Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : AP9L5.D                   Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024 10:03 pm        Instrument  : Dakota
Sample      : IL6,32,,AP9L2.5 Lot# 11124Quant Date  : 11/6/2024  8:38 am
```

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L4.D
Acq On : 5 Nov 2024 10:26 pm
Operator : Dakota:HNY
Sample : IL7,32,,AP9L1 Lot# 11125
Misc : WG1994500
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 06 09:36:17 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 27) IS2_1,4-Dichlorobenzen... | 4.282 | 152 | 28739 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 28342 | | | Recovery = | 101.40% | |
| 57) IS2_Naphthalene-d8 | 5.520 | 136 | 102925 | 4.000 ug/ml | # 0.00 |
| Standard Area 1 = 98544 | | | Recovery = | 104.45% | |
| 85) IS2_Acenaphthene-d10 | 7.210 | 164 | 64341 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 64361 | | | Recovery = | 99.97% | |
| 100) IS2_Phenanthrene-d10 | 8.621 | 188 | 144463 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 142493 | | | Recovery = | 101.38% | |
| System Monitoring Compounds | | | | | |
| Target Compounds | | | | | Qvalue |
| 28) Benzaldehyde | 3.850 | 105 | 5052 | 0.851 ug/ml | 94 |
| 29) Acetophenone | 4.699 | 105 | 9554 | 0.857 ug/ml# | 80 |
| 30) m-Toluidine | 4.780 | 106 | 7848 | 0.786 ug/ml | 96 |
| 31) 2-Chloroaniline | 5.134 | 127 | 9085 | 0.867 ug/ml# | 91 |
| 58) a-Terpineol | 5.588 | 59 | 5487 | 0.846 ug/ml# | 84 |
| 59) 3-Chloroaniline | 5.603 | 65 | 2869 | 0.824 ug/ml | 93 |
| 60) 2,6-Dichlorophenol | 5.625 | 162 | 7133 | 0.834 ug/ml# | 81 |
| 61) 1-chloro-2-nitrobenzene | 5.880 | 111 | 2926 | 0.947 ug/ml# | 1 |
| 62) Caprolactam | 5.914 | 55 | 2946 | 0.768 ug/ml# | 87 |
| 63) 1,2,4,5-Tetrachloroben... | 6.387 | 216 | 10121 | 0.809 ug/ml | 98 |
| 64) Biphenyl | 6.679 | 154 | 20682 | 0.818 ug/ml | 95 |
| 86) Dichloran | 8.332 | 206 | 2292 | 0.768 ug/ml# | 57 |
| 87) Pentachloronitrobenzene | 8.475 | 237 | 2782 | 1.432 ug/ml# | 70 |
| 101) Diphenamid | 9.535 | 167 | 13612 | 0.776 ug/ml# | 72 |

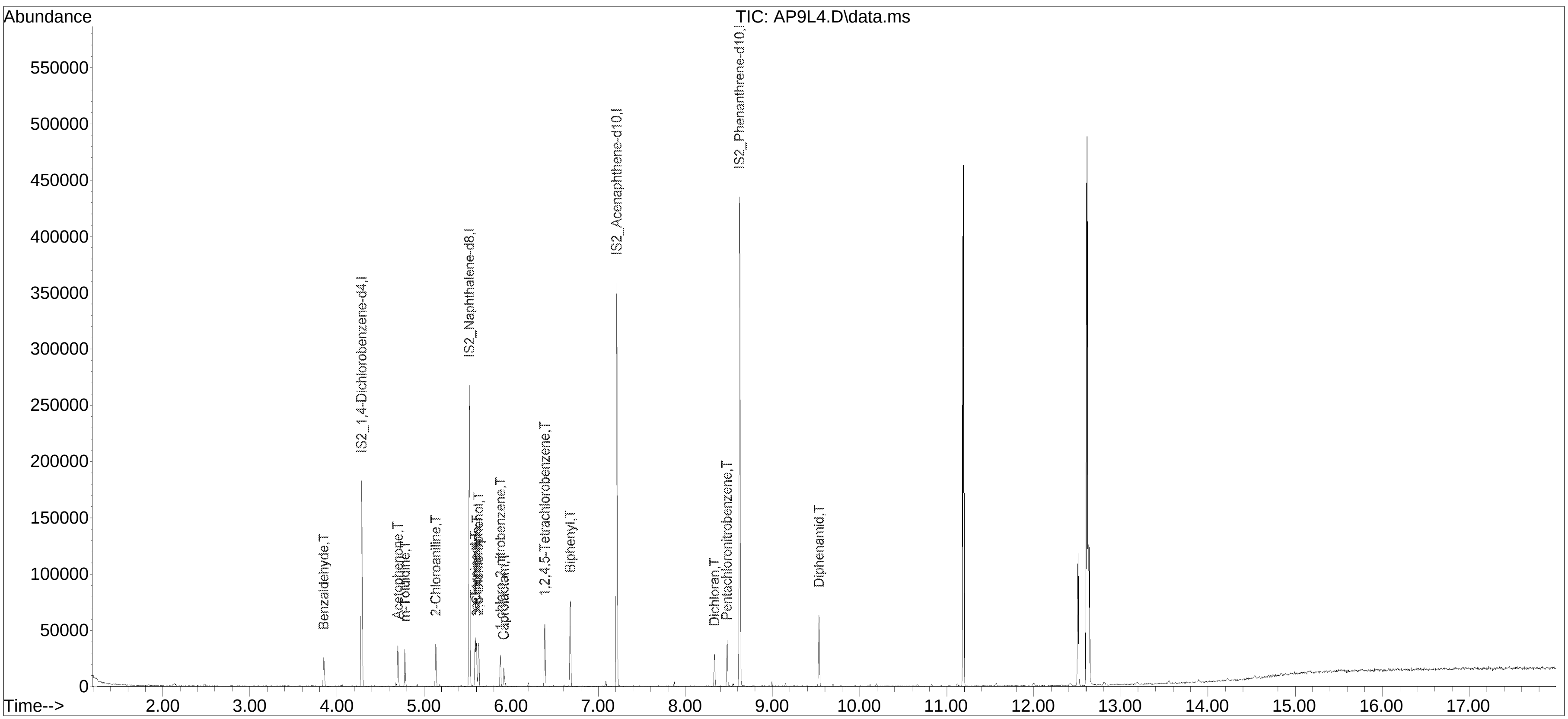
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L4.D
Acq On    :  5 Nov 2024  10:26 pm
Operator  : Dakota:HNY
Sample    : IL7,32,,AP9L1 Lot# 11125
Misc      : WG1994500
ALS Vial  : 15   Sample Multiplier: 1

Quant Time: Nov 06 09:36:17 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List     : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : AP9L4.D                   Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024 10:26 pm        Instrument  : Dakota
Sample      : IL7,32,,AP9L1 Lot# 11125  Quant Date  : 11/6/2024  8:38 am
```

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L3.D
Acq On : 5 Nov 2024 10:49 pm
Operator : Dakota:HNY
Sample : IL8,32,,AP9L0.5 Lot# 11126
Misc : WG1994500
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 06 09:35:55 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 27) IS2_1,4-Dichlorobenzen... | 4.282 | 152 | 27039 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 28342 | | | Recovery = | 95.40% | |
| 57) IS2_Naphthalene-d8 | 5.519 | 136 | 97334 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 98544 | | | Recovery = | 98.77% | |
| 85) IS2_Acenaphthene-d10 | 7.210 | 164 | 61265 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 64361 | | | Recovery = | 95.19% | |
| 100) IS2_Phenanthrene-d10 | 8.621 | 188 | 138508 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 142493 | | | Recovery = | 97.20% | |
| System Monitoring Compounds | | | | | |
| Target Compounds | | | | | Qvalue |
| 28) Benzaldehyde | 3.850 | 105 | 2360 | 0.423 ug/ml | 98 |
| 29) Acetophenone | 4.696 | 105 | 4756 | 0.453 ug/ml# | 77 |
| 30) m-Toluidine | 4.780 | 106 | 3649 | 0.388 ug/ml# | 86 |
| 31) 2-Chloroaniline | 5.134 | 127 | 4626 | 0.469 ug/ml# | 88 |
| 58) a-Terpineol | 5.588 | 59 | 2579 | 0.420 ug/ml# | 74 |
| 59) 3-Chloroaniline | 5.600 | 65 | 1366 | 0.415 ug/ml | 93 |
| 60) 2,6-Dichlorophenol | 5.625 | 162 | 3612 | 0.447 ug/ml# | 77 |
| 61) 1-chloro-2-nitrobenzene | 5.877 | 111 | 1392 | 0.476 ug/ml# | 1 |
| 62) Caprolactam | 5.917 | 55 | 1361 | 0.375 ug/ml# | 82 |
| 63) 1,2,4,5-Tetrachloroben... | 6.387 | 216 | 5052 | 0.427 ug/ml# | 94 |
| 64) Biphenyl | 6.679 | 154 | 10707 | 0.448 ug/ml | 96 |
| 86) Dichloran | 8.332 | 206 | 1010 | 0.355 ug/ml# | 61 |
| 87) Pentachloronitrobenzene | 8.478 | 237 | 1199 | 1.030 ug/ml# | 76 |
| 101) Diphenamid | 9.535 | 167 | 6787 | 0.403 ug/ml# | 75 |

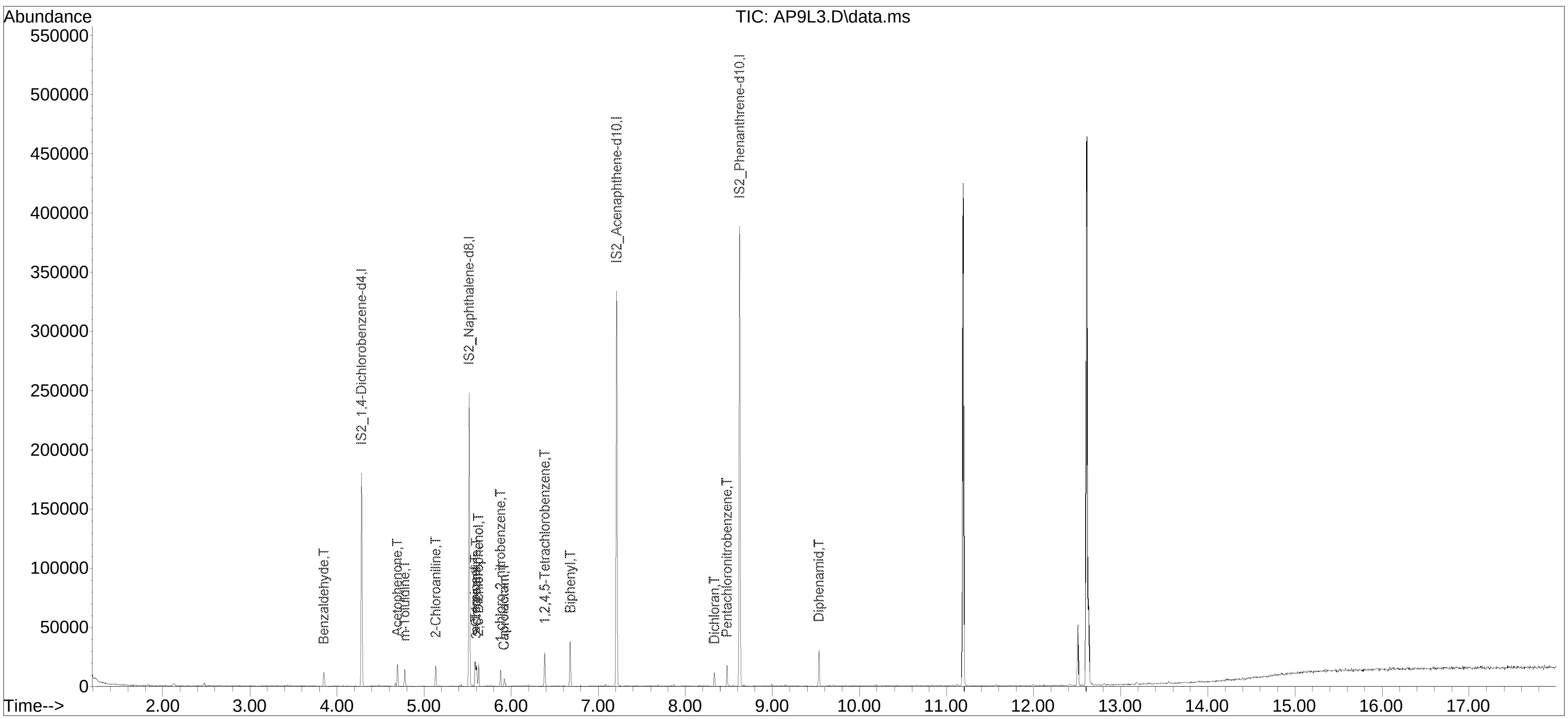
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L3.D
Acq On : 5 Nov 2024 10:49 pm
Operator : Dakota:HNY
Sample : IL8,32,,AP9L0.5 Lot# 11126
Misc : WG1994500
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 06 09:35:55 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•




FS241105RVT_Dakota.m Tue Nov 12 12:25:48 2024 Page: 2

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : AP9L3.D                      Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024 10:49 pm           Instrument  : Dakota
Sample      : IL8,32,,AP9L0.5 Lot# 11126Quant Date  : 11/6/2024  8:37 am
```

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L2.D
Acq On : 5 Nov 2024 11:13 pm
Operator : Dakota:HNY
Sample : IL9,32,,AP9L0.2 Lot# 11127
Misc : WG1994500
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 06 09:35:06 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 27) IS2_1,4-Dichlorobenzen... | 4.282 | 152 | 27477 | 4.000 | ug/ml | 0.00 |
| Standard Area 1 = 28342 | | | Recovery = | 96.95% | | |
| 57) IS2_Naphthalene-d8 | 5.519 | 136 | 98352 | 4.000 | ug/ml | # 0.00 |
| Standard Area 1 = 98544 | | | Recovery = | 99.81% | | |
| 85) IS2_Acenaphthene-d10 | 7.210 | 164 | 62816 | 4.000 | ug/ml | 0.00 |
| Standard Area 1 = 64361 | | | Recovery = | 97.60% | | |
| 100) IS2_Phenanthrene-d10 | 8.621 | 188 | 141690 | 4.000 | ug/ml | 0.00 |
| Standard Area 1 = 142493 | | | Recovery = | 99.44% | | |
| System Monitoring Compounds | | | | | | |
| Target Compounds | | | | | | Qvalue |
| 28) Benzaldehyde | 3.854 | 105 | 776 | 0.137 | ug/ml | 90 |
| 29) Acetophenone | 4.699 | 105 | 1761 | 0.165 | ug/ml# | 39 |
| 30) m-Toluidine | 4.783 | 106 | 852 | 0.089 | ug/ml# | 88 |
| 31) 2-Chloroaniline | 5.134 | 127 | 1745 | 0.174 | ug/ml# | 42 |
| 58) a-Terpineol | 5.591 | 59 | 1032 | 0.166 | ug/ml# | 83 |
| 59) 3-Chloroaniline | 5.600 | 65 | 425M2 | 0.128 | ug/ml | |
| 60) 2,6-Dichlorophenol | 5.628 | 162 | 1208 | 0.148 | ug/ml# | 82 |
| 61) 1-chloro-2-nitrobenzene | 5.877 | 111 | 446M2 | 0.151 | ug/ml | |
| 62) Caprolactam | 5.930 | 55 | 508M2 | 0.139 | ug/ml | |
| 63) 1,2,4,5-Tetrachloroben... | 6.383 | 216 | 2062 | 0.172 | ug/ml# | 81 |
| 64) Biphenyl | 6.679 | 154 | 3880 | 0.161 | ug/ml | 93 |
| 86) Dichloran | 8.332 | 206 | 473M2 | 0.162 | ug/ml | |
| 87) Pentachloronitrobenzene | 8.478 | 237 | 438M2 | 0.816 | ug/ml | |
| 101) Diphenamid | 9.535 | 167 | 2689 | 0.156 | ug/ml# | 71 |

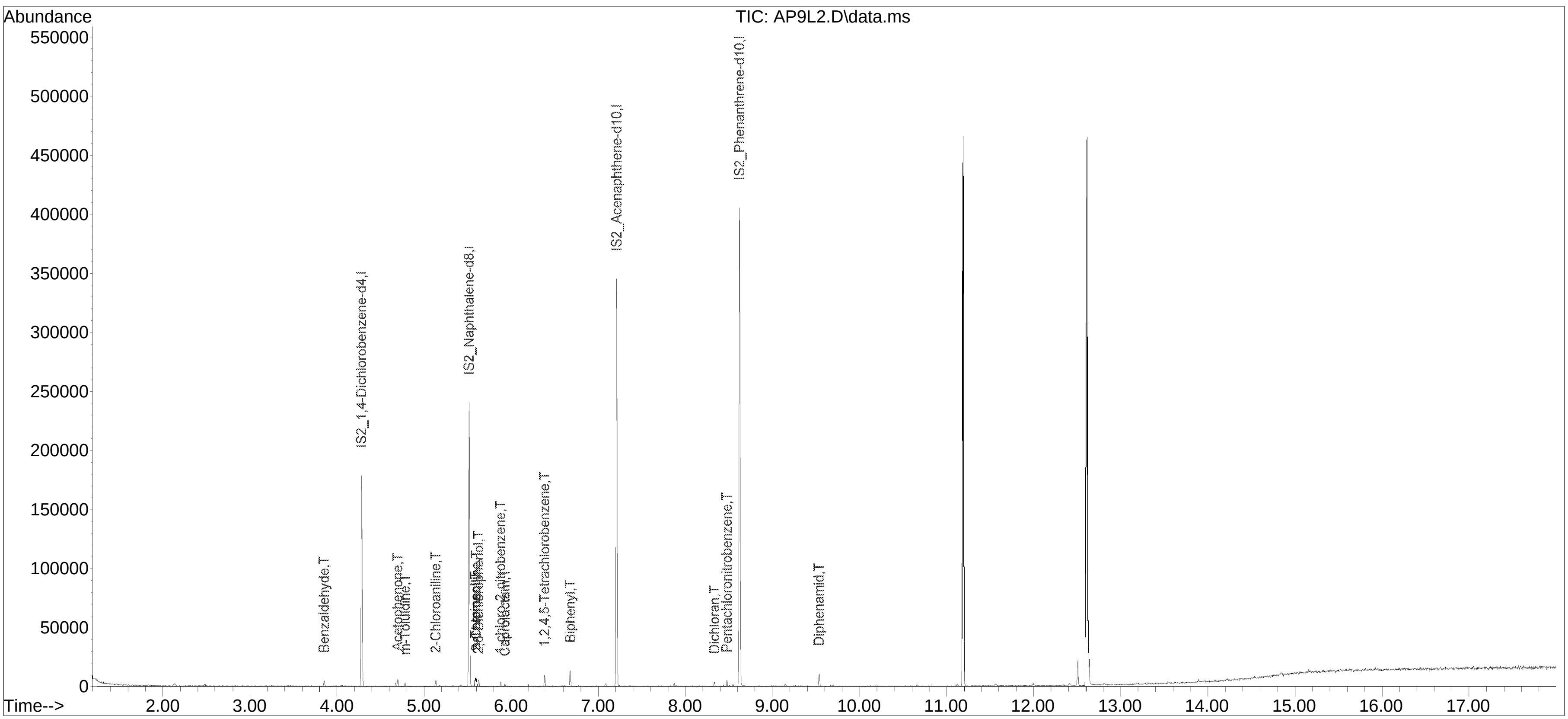
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

```
Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L2.D
Acq On    :  5 Nov 2024  11:13 pm
Operator  : Dakota:HNY
Sample    : IL9,32,,AP9L0.2 Lot# 11127
Misc      : WG1994500
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Nov 06 09:35:06 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List     : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•
```

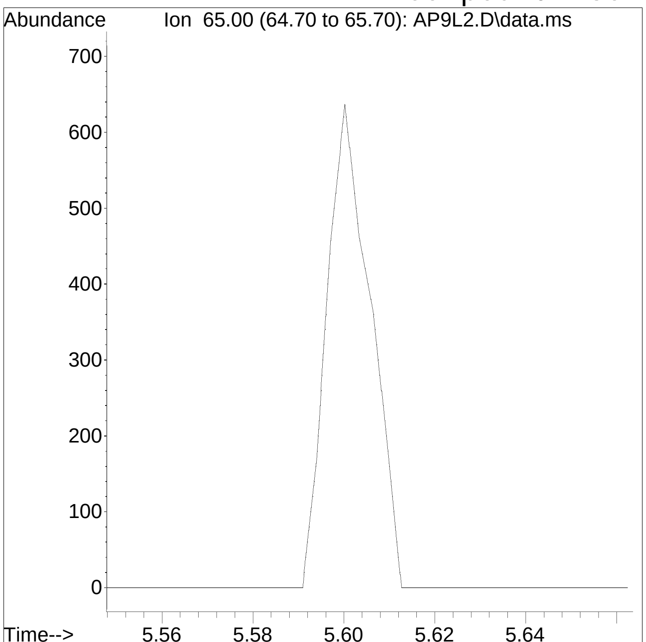


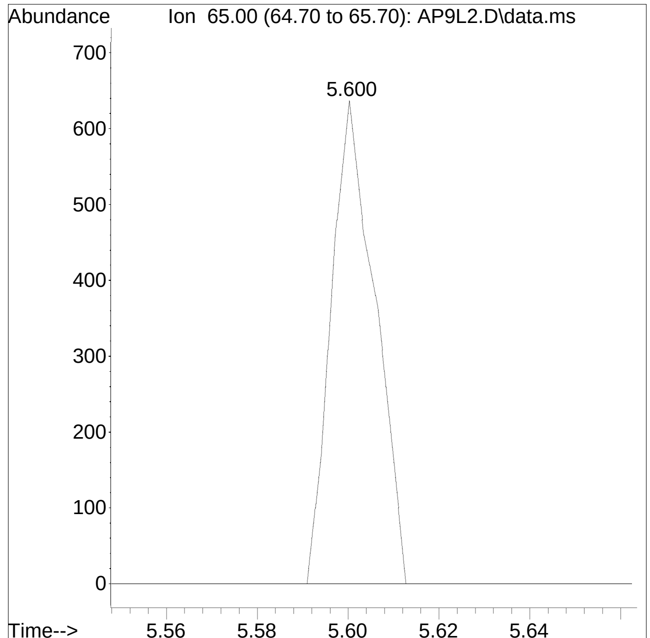

FS241105RVT_Dakota.m Tue Nov 12 12:25:44 2024    Page: 2

Manual Integration Report

```
Data Path    : I:\8270\Dakota\241105RVTICQMethod      : FS241105RVT_Dakota.m
Data File    : AP9L2.D                    Operator     : Dakota:HNY
Date Inj'd   : 11/5/2024 11:13 pm         Instrument   : Dakota
Sample       : IL9,32,,AP9L0.2 Lot# 11127Quant Date   : 11/6/2024  8:37 am
```

Compound #59: 3-Chloroaniline



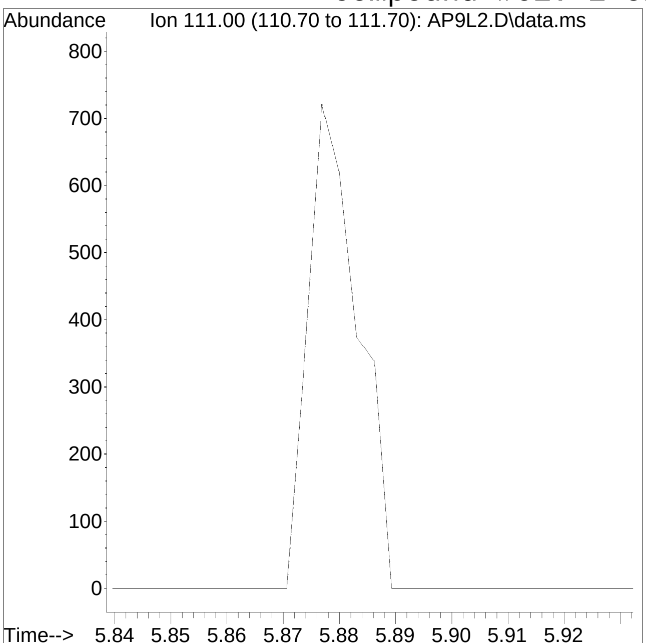

Original Peak Response = 0 Manual Peak Response = 425 M2

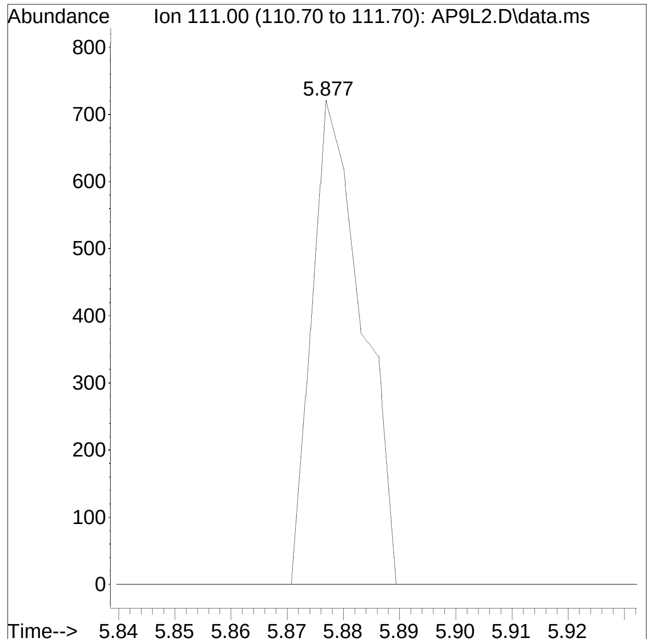
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : AP9L2.D                  Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024 11:13 pm       Instrument  : Dakota
Sample      : IL9,32,,AP9L0.2 Lot# 11127Quant Date  : 11/6/2024  8:37 am
```

Compound #61: 1-chloro-2-nitrobenzene



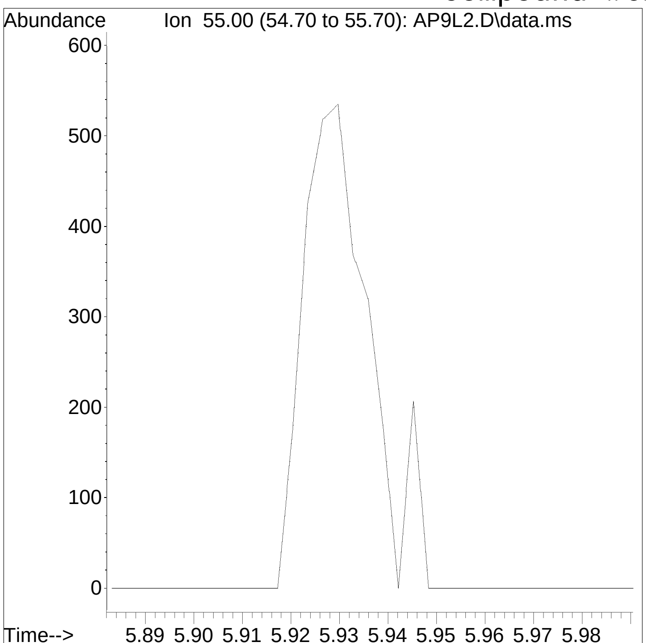

Original Peak Response = 0     Manual Peak Response = 446 M2

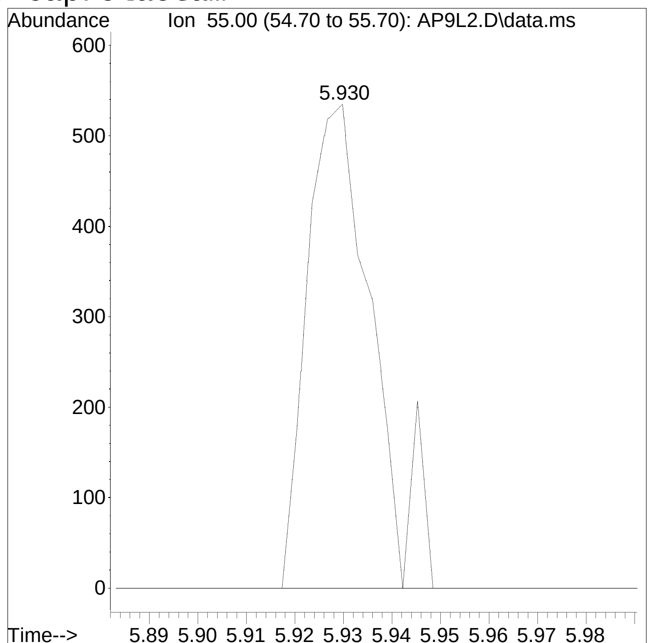
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : AP9L2.D                     Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024 11:13 pm          Instrument  : Dakota
Sample      : IL9,32,,AP9L0.2 Lot# 11127Quant Date  : 11/6/2024  8:37 am
```

Compound #62: Caprolactam



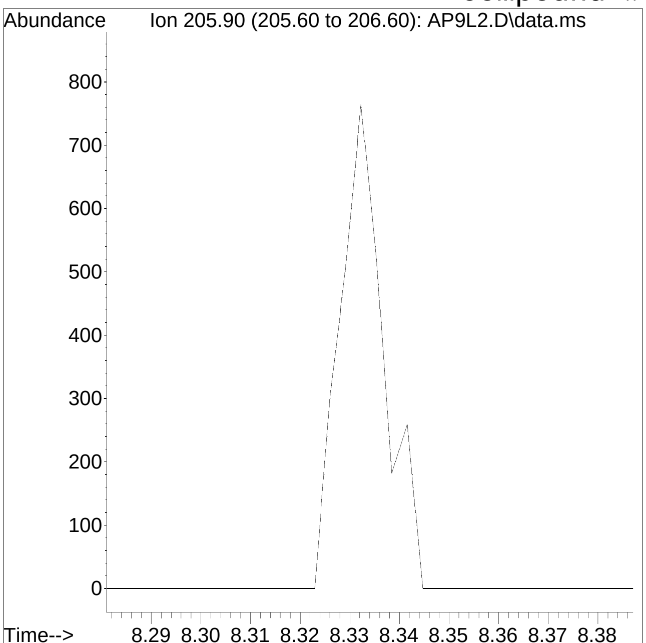

Original Peak Response = 0        Manual Peak Response = 508 M2

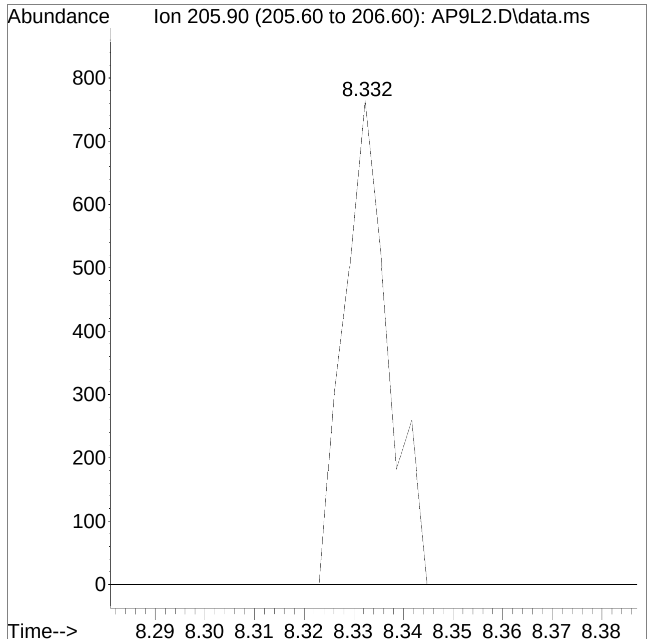
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : AP9L2.D                    Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024 11:13 pm         Instrument  : Dakota
Sample      : IL9,32,,AP9L0.2 Lot# 11127Quant Date  : 11/6/2024  8:37 am
```

Compound #86: Dichloran



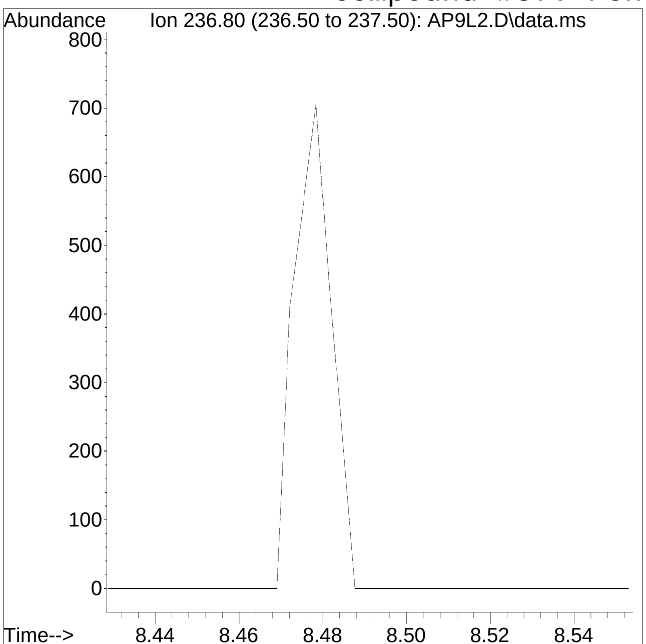

Original Peak Response = 0          Manual Peak Response = 473 M2

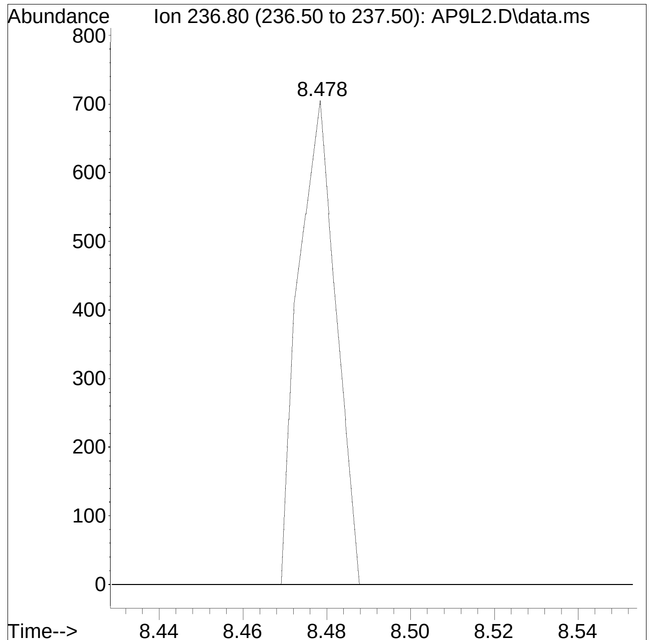
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : AP9L2.D                     Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024 11:13 pm          Instrument  : Dakota
Sample      : IL9,32,,AP9L0.2 Lot# 11127Quant Date  : 11/6/2024  8:37 am
```

Compound #87: Pentachloronitrobenzene




Original Peak Response = 0        Manual Peak Response = 438 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L1.D
Acq On : 5 Nov 2024 11:36 pm
Operator : Dakota:HNY
Sample : IL10,32,,AP9L0.1 Lot# 11128
Misc : WG1994500
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 06 09:34:15 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 27) IS2_1,4-Dichlorobenzen... | 4.286 | 152 | 28042 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 28342 | | | Recovery = | 98.94% | |
| 57) IS2_Naphthalene-d8 | 5.519 | 136 | 99051 | 4.000 ug/ml | # 0.00 |
| Standard Area 1 = 98544 | | | Recovery = | 100.51% | |
| 85) IS2_Acenaphthene-d10 | 7.210 | 164 | 62731 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 64361 | | | Recovery = | 97.47% | |
| 100) IS2_Phenanthrene-d10 | 8.621 | 188 | 139376 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 142493 | | | Recovery = | 97.81% | |
| System Monitoring Compounds | | | | | |
| Target Compounds | | | | | Qvalue |
| 28) Benzaldehyde | 3.850 | 105 | 375M2 | 0.065 ug/ml | |
| 29) Acetophenone | 4.702 | 105 | 776M6 | 0.071 ug/ml | |
| 30) m-Toluidine | 0.000 | | 0 | N.D. | |
| 31) 2-Chloroaniline | 5.134 | 127 | 756 | 0.074 ug/ml# | 42 |
| 58) a-Terpineol | 5.588 | 59 | 402M2 | 0.064 ug/ml | |
| 59) 3-Chloroaniline | 5.603 | 65 | 70M2 | 0.021 ug/ml | |
| 60) 2,6-Dichlorophenol | 5.628 | 162 | 620 | 0.075 ug/ml# | 15 |
| 61) 1-chloro-2-nitrobenzene | 5.880 | 111 | 168M2 | 0.056 ug/ml | |
| 62) Caprolactam | 5.936 | 55 | 285M2 | 0.077 ug/ml | |
| 63) 1,2,4,5-Tetrachloroben... | 6.387 | 216 | 878 | 0.073 ug/ml# | 87 |
| 64) Biphenyl | 6.679 | 154 | 1780 | 0.073 ug/ml# | 92 |
| 86) Dichloran | 8.332 | 206 | 178M2 | 0.061 ug/ml | |
| 87) Pentachloronitrobenzene | 8.478 | 237 | 72M2 | 0.717 ug/ml | |
| 101) Diphenamid | 9.538 | 167 | 1208 | 0.071 ug/ml# | 76 |

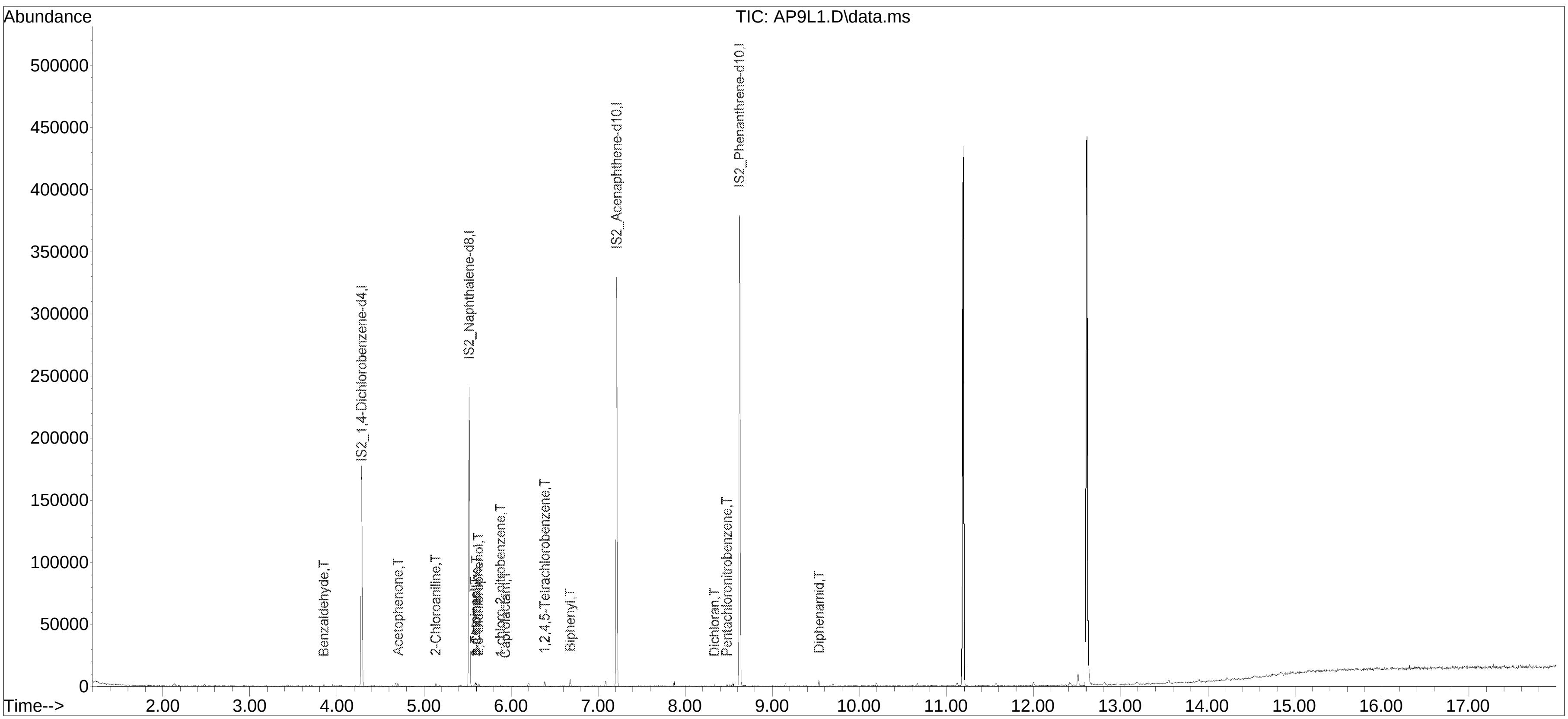
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L1.D
Acq On : 5 Nov 2024 11:36 pm
Operator : Dakota:HNY
Sample : IL10,32,,AP9L0.1 Lot# 11128
Misc : WG1994500
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 06 09:34:15 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

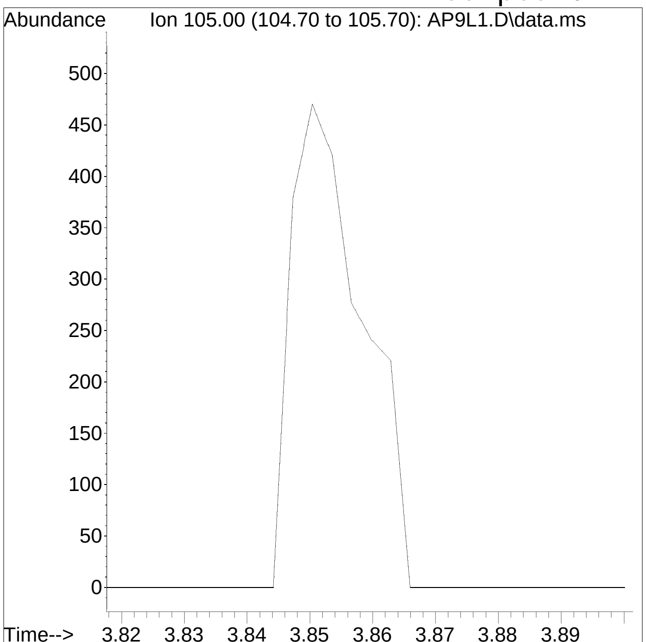
Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•

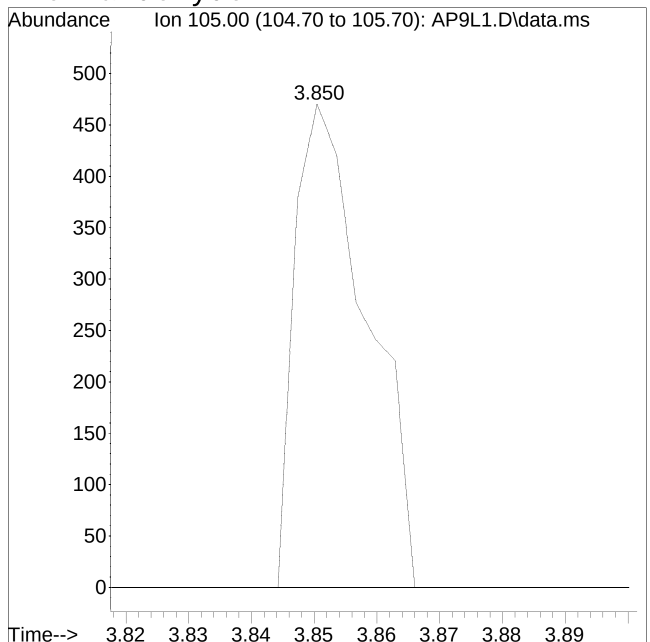


Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : AP9L1.D                     Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024 11:36 pm          Instrument  : Dakota
Sample      : IL10,32,,AP9L0.1 Lot# 1112Quant Date  : 11/6/2024  8:37 am
```

Compound #28: Benzaldehyde



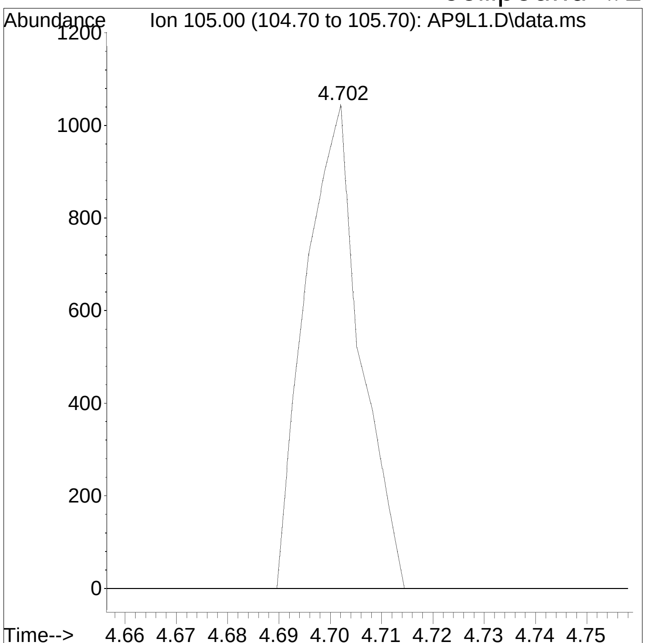

Original Peak Response = 0 Manual Peak Response = 375 M2

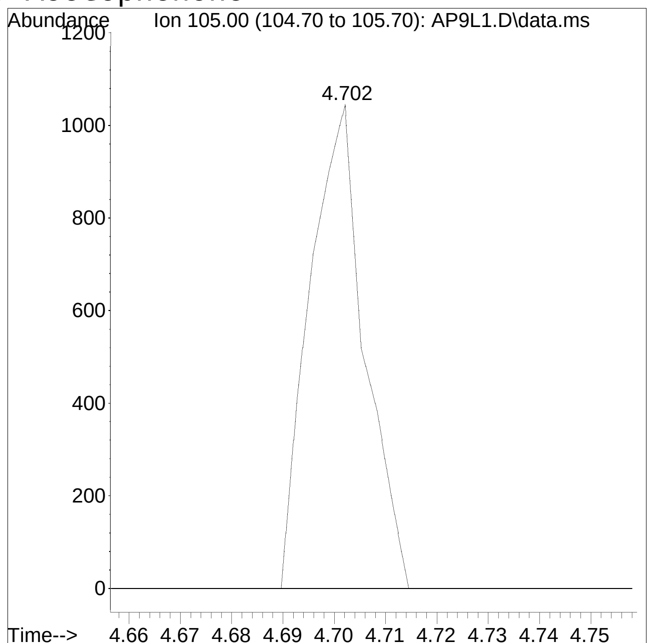
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : AP9L1.D                     Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024 11:36 pm          Instrument  : Dakota
Sample      : IL10,32,,AP9L0.1 Lot# 1112Quant Date  : 11/6/2024  8:37 am
```

Compound #29: Acetophenone



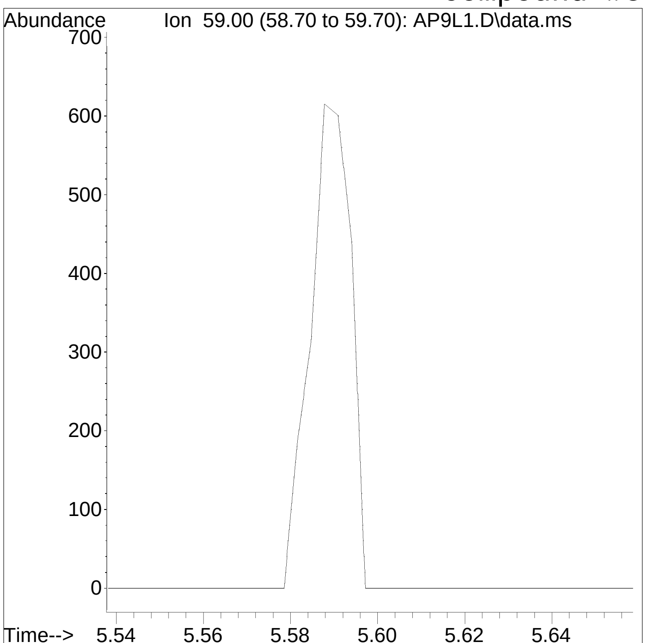



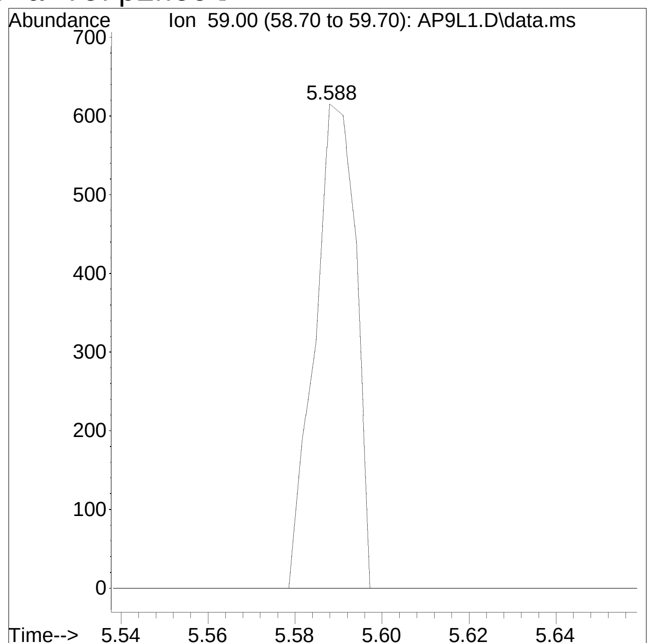

Original Peak Response = 777 Manual Peak Response = 776 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : AP9L1.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 11:36 pm Instrument : Dakota
Sample : IL10,32,,AP9L0.1 Lot# 1112Quant Date : 11/6/2024 8:37 am

Compound #58: a-Terpineol



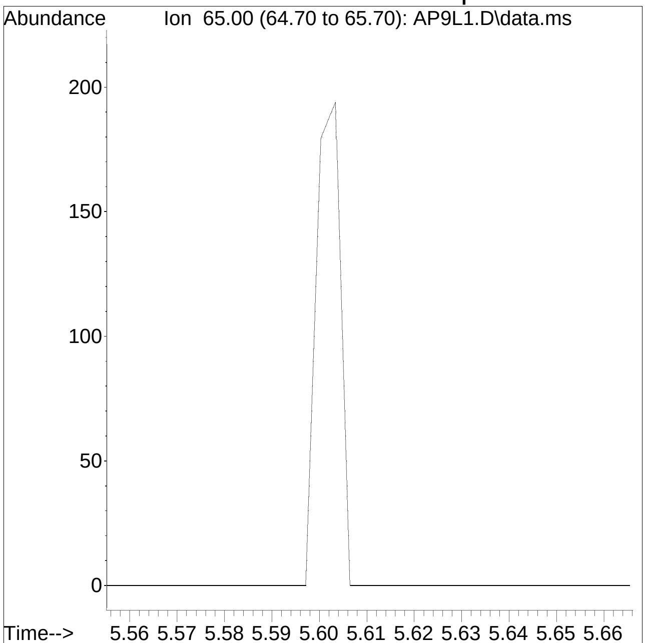



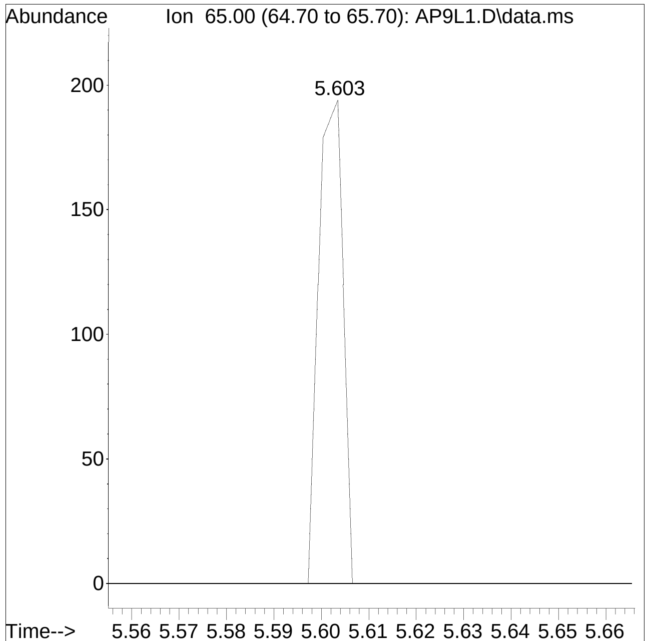

Original Peak Response = 0 Manual Peak Response = 402 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path    : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File    : AP9L1.D                  Operator     : Dakota:HNY
Date Inj'd   : 11/5/2024 11:36 pm       Instrument   : Dakota
Sample       : IL10,32,,AP9L0.1 Lot# 1112Quant Date  : 11/6/2024  8:37 am
```

Compound #59: 3-Chloroaniline



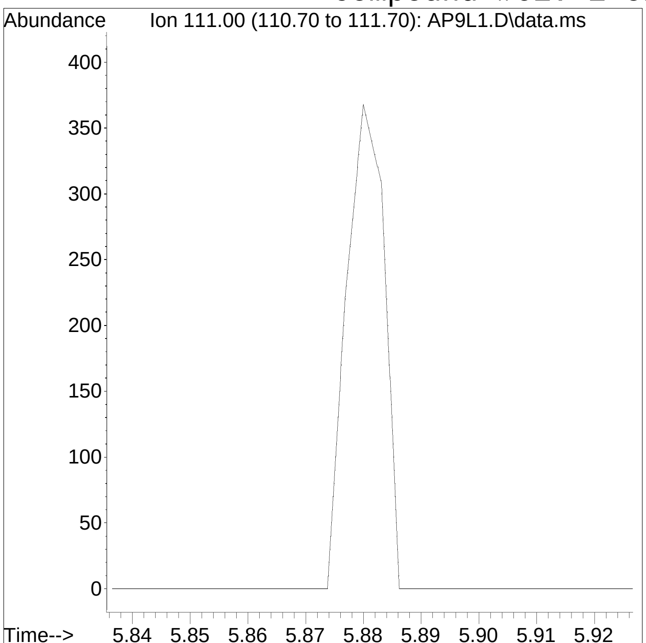

Original Peak Response = 0          Manual Peak Response = 70 M2

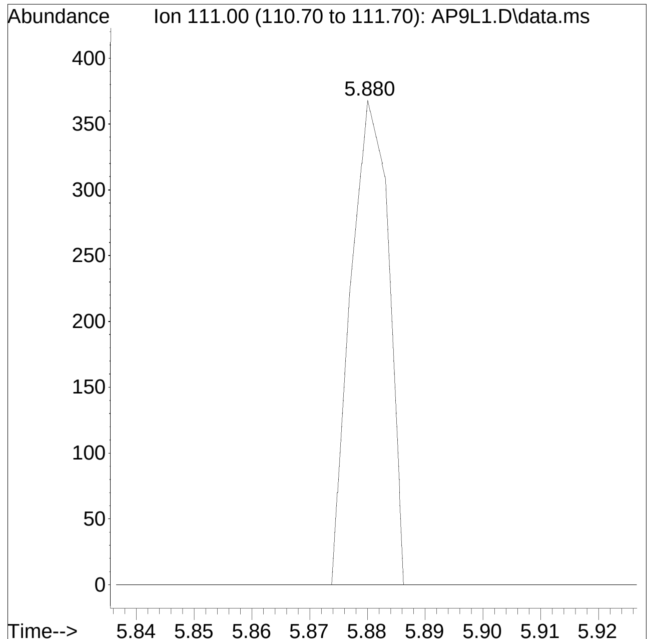
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : AP9L1.D                       Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024 11:36 pm            Instrument  : Dakota
Sample      : IL10,32,,AP9L0.1 Lot# 1112Quant Date  : 11/6/2024  8:37 am
```

Compound #61: 1-chloro-2-nitrobenzene



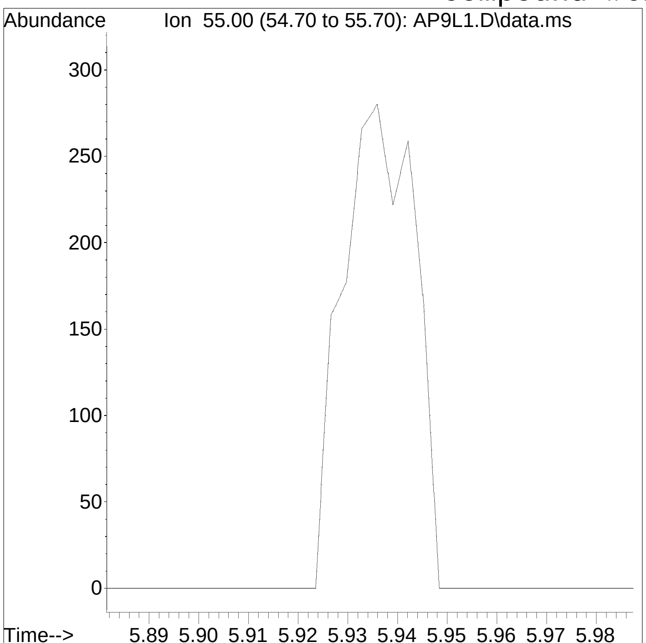

Original Peak Response = 0          Manual Peak Response = 168 M2

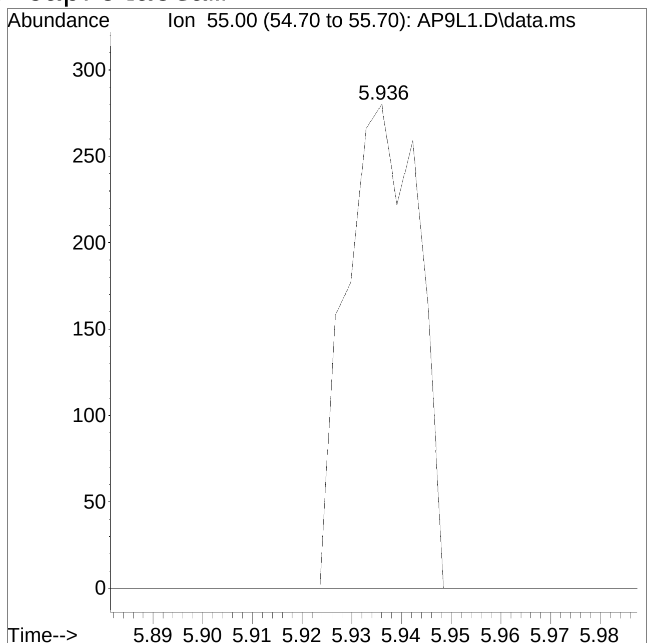
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : AP9L1.D                    Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024 11:36 pm         Instrument  : Dakota
Sample      : IL10,32,,AP9L0.1 Lot# 1112Quant Date  : 11/6/2024  8:37 am
```

Compound #62: Caprolactam



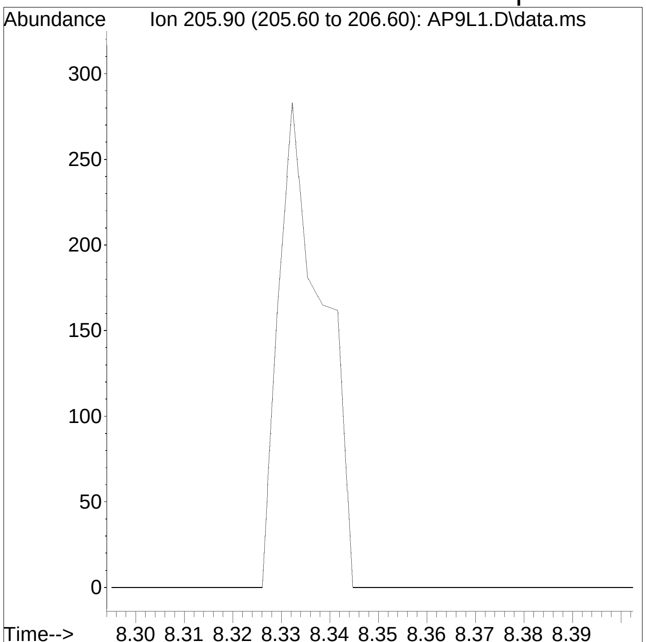

Original Peak Response = 0    Manual Peak Response = 285 M2

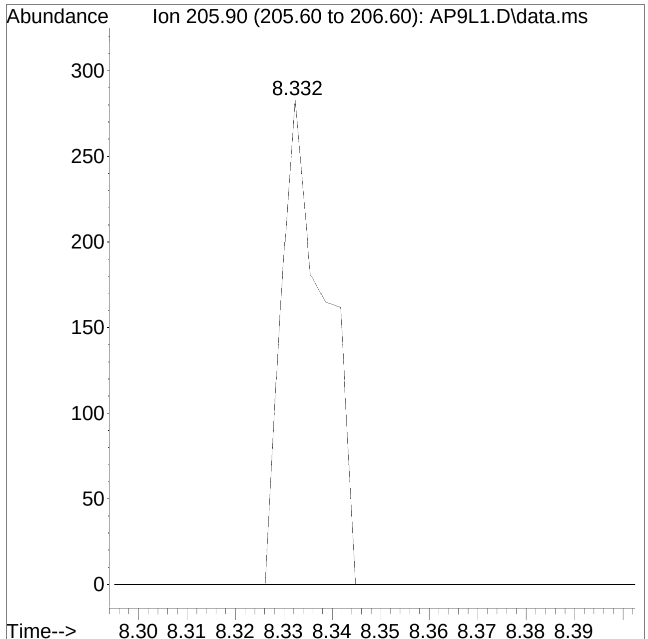
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : AP9L1.D                   Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024 11:36 pm        Instrument  : Dakota
Sample      : IL10,32,,AP9L0.1 Lot# 1112Quant Date  : 11/6/2024  8:37 am
```

Compound #86: Dichloran



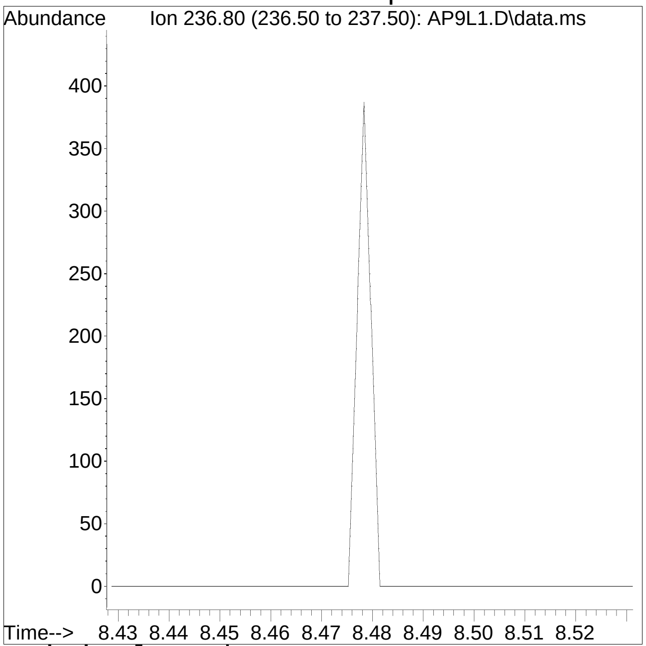

Original Peak Response = 0　　　　　Manual Peak Response = 178 M2

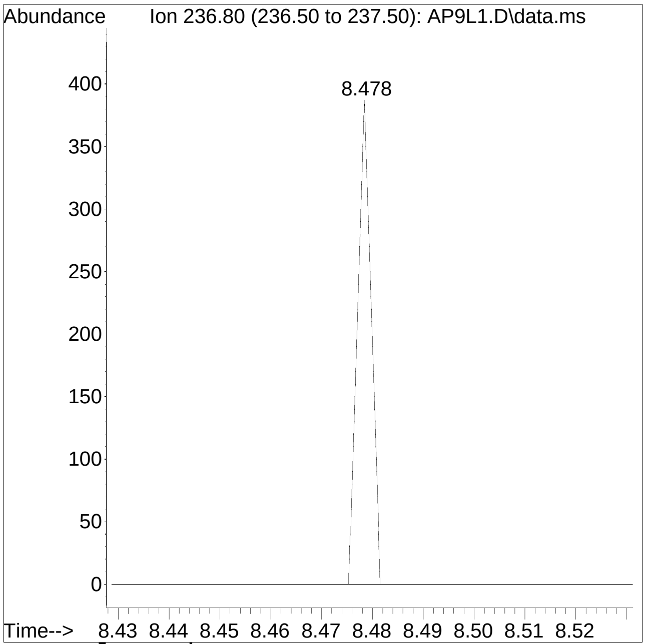
M2 = Peak not found by automatic integration algorithm.

# Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : AP9L1.D                    Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024 11:36 pm         Instrument  : Dakota
Sample      : IL10,32,,AP9L0.1 Lot# 1112Quant Date  : 11/6/2024  8:37 am
```

Compound #87: Pentachloronitrobenzene




Original Peak Response = 0　　　　　Manual Peak Response = 72 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNICV.D
Acq On : 5 Nov 2024 11:59 pm
Operator : Dakota:HNY
Sample : CQICV1,32,,ABNICV Lot# 11138
Misc : WG1994500
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 12 11:52:06 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 12 11:53:08 2024
Response via : Initial Calibration

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | IS1_1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 2 | t | n-Nitrosodimethylamine | 0.630 | 0.605 | 4.0 | 101 | 0.00 |
| 3 | t | Pyridine | 0.954 | 0.757 | 20.6# | 77 | 0.00 |
| 4 | S | 2-Fluorophenol | 1.028 | 0.968 | 5.8 | 100 | 0.00 |
| 5 | T | Aniline | 1.567 | 1.337 | 14.7 | 90 | 0.00 |
| 6 | t | 2-Chlorophenol | 1.225 | 1.160 | 5.3 | 99 | 0.00 |
| 7 | S | Phenol-d6 | 1.317 | 1.189 | 9.7 | 96 | 0.00 |
| 8 | T | Phenol | 1.421 | 1.295 | 8.9 | 96 | 0.00 |
| 9 | T | Bis(2-chloroethyl)ether | 1.017 | 0.962 | 5.4 | 101 | 0.00 |
| 10 | T | 1,3-Dichlorobenzene | 1.577 | 1.429 | 9.4 | 98 | 0.00 |
| 11 | T | 1,4-Dichlorobenzene | 1.610 | 1.474 | 8.4 | 99 | 0.00 |
| 12 | T | 1,2-Dichlorobenzene | 1.534 | 1.411 | 8.0 | 100 | 0.00 |
| 13 | t | Benzyl alcohol | 0.930 | 0.869 | 6.6 | 99 | 0.00 |
| 14 | T | Bis(2-chloroisopropyl)ether | 1.794 | 1.670 | 6.9 | 101 | 0.00 |
| 15 | T | 2-Methylphenol | 1.079 | 0.990 | 8.2 | 101 | 0.00 |
| 16 | T | Hexachloroethane | 0.589 | 0.529 | 10.2 | 101 | 0.00 |
| 17 | T | n-Nitrosodi-n-propylamine | 0.863 | 0.773 | 10.4 | 98 | 0.00 |
| 18 | T | 3-Methylphenol/4-Methylphen | 1.182 | 1.061 | 10.2 | 99 | 0.00 |
| 19 | S | Nitrobenzene-d5 | 1.195 | 1.112 | 6.9 | 98 | 0.00 |
| 20 | T | Nitrobenzene | 1.222 | 1.123 | 8.1 | 97 | 0.00 |
| 21 | T | Isophorone | 2.247 | 2.012 | 10.5 | 96 | 0.00 |
| 22 | T | 2-Nitrophenol | 0.619 | 0.547 | 11.6 | 94 | 0.00 |
| 23 | T | 2,4-Dimethylphenol | 1.101 | 0.834 | 24.3# | 81 | 0.00 |
| 24 | T | Bis(2-chloroethoxy)methane | 1.400 | 1.314 | 6.1 | 100 | 0.00 |
| 25 | T | 2,4-Dichlorophenol | 1.285 | 1.170 | 8.9 | 97 | 0.00 |
| 26 | T | 1,2,4-Trichlorobenzene | 1.555 | 1.418 | 8.8 | 99 | 0.00 |
| 37 | I | IS1_Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 38 | T | Naphthalene | 1.100 | 0.979 | 11.0 | 100 | 0.00 |
| 39 | T | Benzoic Acid | 0.228 | 0.175 | 23.2# | 88 | 0.00 |
| 40 | T | 4-Chloroaniline | 0.121 | 0.104 | 14.0 | 92 | 0.00 |
| 41 | T | Hexachlorobutadiene | 0.258 | 0.240 | 7.0 | 100 | 0.00 |
| 42 | T | p-Chloro-m-cresol | 0.290 | 0.261 | 10.0 | 97 | 0.00 |
| 43 | T | 2-Methylnaphthalene | 0.761 | 0.690 | 9.3 | 102 | 0.00 |
| 44 | T | 1-Methylnaphthalene | 0.242 | 0.219 | 9.5 | 98 | 0.00 |
| 45 | T | Hexachlorocyclopentadiene | 0.272 | 0.211 | 22.4# | 81 | 0.00 |
| 46 | T | 2,4,6-Trichlorophenol | 0.287 | 0.262 | 8.7 | 98 | 0.00 |
| 47 | T | 2,4,5-Trichlorophenol | 0.320 | 0.284 | 11.3 | 98 | 0.00 |
| 48 | S | 2-Fluorobiphenyl | 0.990 | 0.872 | 11.9 | 99 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNICV.D
Acq On : 5 Nov 2024 11:59 pm
Operator : Dakota:HNY
Sample : CQICV1,32,,ABNICV Lot# 11138
Misc : WG1994500
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 12 11:52:06 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 12 11:53:08 2024
Response via : Initial Calibration

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

| | | Compound | | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|---|
| 49 | T | 2-Chloronaphthalene | | 0.852 | 0.739 | 13.3 | 96 | 0.00 |
| 50 | T | 2-Nitroaniline | | 0.218 | 0.194 | 11.0 | 93 | 0.00 |
| 51 | T | 1,4-Dinitrobenzene | | 0.095 | 0.085 | 10.5 | 94 | 0.00 |
| 52 | T | 1,3-Dinitrobenzene | | 0.113 | 0.101 | 10.6 | 91 | 0.00 |
| 53 | T | Dimethyl phthalate | | 0.991 | 0.879 | 11.3 | 99 | 0.00 |
| 54 | T | Acenaphthylene | | 1.252 | 1.111 | 11.3 | 98 | 0.00 |
| 55 | T | 2,6-Dinitrotoluene | | 0.185 | 0.166 | 10.3 | 93 | 0.00 |
| 56 | T | 1,2-Dinitrobenzene | | 0.066 | 0.068 | -3.0 | 101 | 0.00 |
| 65 | I | IS1_Acenaphthene-d10 | | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 66 | T | 3-Nitroaniline | | 0.309 | 0.291 | 5.8 | 97 | 0.00 |
| 67 | T | Acenaphthene | | 1.163 | 0.993 | 14.6 | 97 | 0.00 |
| 68 | T | 2,4-Dinitrophenol | * | 5.000 | 4.126 | 17.5 | 92 | 0.00 |
| 69 | T | Dibenzofuran | | 2.006 | 1.787 | 10.9 | 101 | 0.00 |
| 70 | T | 2,4-Dinitrotoluene | | 0.387 | 0.375 | 3.1 | 96 | 0.00 |
| 71 | T | 4-Nitrophenol | | 0.230 | 0.215 | 6.5 | 95 | 0.00 |
| 72 | T | 2,3,5,6-Tetrachlorophenol | | 0.436 | 0.395 | 9.4 | 96 | 0.00 |
| 73 | T | 2,3,4,6-Tetrachlorophenol | | 0.428 | 0.396 | 7.5 | 99 | 0.00 |
| 74 | T | Diethyl phthalate | | 1.575 | 1.380 | 12.4 | 99 | 0.00 |
| 75 | T | Fluorene | | 1.536 | 1.359 | 11.5 | 99 | 0.00 |
| 76 | T | 4-Chlorophenyl phenyl ether | | 0.792 | 0.702 | 11.4 | 100 | 0.00 |
| 77 | T | 4-Nitroaniline | | 0.299 | 0.300 | -0.3 | 99 | 0.00 |
| 78 | T | 4,6-Dinitro-o-cresol | | 0.234 | 0.216 | 7.7 | 92 | 0.00 |
| 79 | T | NDPA/DPA | | 1.337 | 1.176 | 12.0 | 100 | 0.00 |
| 80 | T | Azobenzene | | 1.281 | 1.179 | 8.0 | 100 | 0.00 |
| 81 | S | 2,4,6-Tribromophenol | | 0.286 | 0.269 | 5.9 | 102 | 0.00 |
| 82 | T | 4-Bromophenyl phenyl ether | | 0.522 | 0.455 | 12.8 | 99 | 0.00 |
| 83 | T | Hexachlorobenzene | | 0.656 | 0.553 | 15.7 | 98 | 0.00 |
| 84 | T | Pentachlorophenol | | 0.356 | 0.324 | 9.0 | 94 | 0.00 |
| 90 | I | IS1_Phenanthrene-d10 | | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 91 | T | Phenanthrene | | 1.183 | 1.044 | 11.7 | 98 | 0.00 |
| 92 | T | Anthracene | | 1.160 | 1.061 | 8.5 | 100 | 0.00 |
| 93 | T | Carbazole | | 1.064 | 0.982 | 7.7 | 98 | 0.00 |
| 94 | T | Di-n-butylphthalate | | 1.207 | 1.119 | 7.3 | 97 | 0.00 |
| 95 | T | Fluoranthene | | 1.422 | 1.289 | 9.4 | 100 | 0.00 |
| 96 | T | Benzidine | | 0.772 | 0.715 | 7.4 | 91 | 0.00 |
| 97 | T | Pyrene | | 1.520 | 1.421 | 6.5 | 102 | 0.00 |
| 98 | S | 4-Terphenyl-d14 | | 1.157 | 1.045 | 9.7 | 100 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNICV.D
Acq On : 5 Nov 2024 11:59 pm
Operator : Dakota:HNY
Sample : CQICV1,32,,ABNICV Lot# 11138
Misc : WG1994500
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 12 11:52:06 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 12 11:53:08 2024
Response via : Initial Calibration

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

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 99 T | Butyl benzyl phthalate | 0.517 | 0.492 | 4.8 | 97 | 0.00 |
| 106 I | IS1_Chrysene-d12 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 107 T | Benzo(a)anthracene | 1.355 | 1.205 | 11.1 | 99 | 0.00 |
| 108 T | 3,3'-Dichlorobenzidine | 0.505 | 0.480 | 5.0 | 98 | 0.00 |
| 109 T | Chrysene | 1.349 | 1.187 | 12.0 | 99 | 0.00 |
| 110 T | Bis(2-ethylhexyl)phthalate | 0.726 | 0.689 | 5.1 | 96 | 0.00 |
| 111 T | Di-n-octylphthalate | 1.212 | 1.150 | 5.1 | 97 | 0.00 |
| 112 T | Benzo(b)fluoranthene | 1.420 | 1.274 | 10.3 | 99 | 0.00 |
| 113 T | Benzo(k)fluoranthene | 1.383 | 1.303 | 5.8 | 99 | 0.00 |
| 114 T | Benzo(a)pyrene | 1.267 | 1.183 | 6.6 | 98 | 0.00 |
| 115 I | IS1_Perylene-d12 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 116 T | Indeno(1,2,3-cd)pyrene | 1.234 | 1.129 | 8.5 | 98 | 0.00 |
| 117 T | Dibenzo(a,h)anthracene | 1.213 | 1.133 | 6.6 | 99 | 0.00 |
| 118 T | Benzo(ghi)perylene | 1.192 | 1.061 | 11.0 | 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\241105RVTICAL\
Data File : ABNICV.D
Acq On    :  5 Nov 2024  11:59 pm
Operator  : Dakota:HNY
Sample    : CQICV1,32,,ABNICV Lot# 11138
Misc      : WG1994500
ALS Vial  : 19   Sample Multiplier: 1

Quant Time: Nov 11 15:34:43 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Nov 11 15:34:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL7.D
             : 2 - I:\8270\Dakota\241105RVTICAL\ADPL7.D
Sub List     : ABNical - ABN ical sublist

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 --------------------------------------------------------------------------
 Internal Standards
 1) IS1_1,4-Dichlorobenzen...   4.283  152     29942     4.000 ug/ml    0.00
   Standard Area 1 = 30017                 Recovery   =   99.75%
37) IS1_Naphthalene-d8          5.520  136    111727     4.000 ug/ml    0.00
   Standard Area 1 = 110693                 Recovery   =  100.93%
65) IS1_Acenaphthene-d10        7.210  164     71834     4.000 ug/ml    0.00
   Standard Area 1 = 71339                 Recovery   =  100.69%
90) IS1_Phenanthrene-d10        8.625  188    153221     4.000 ug/ml    0.00
   Standard Area 1 = 152962                 Recovery   =  100.17%
106) IS1_Chrysene-d12          11.192  240    177321     4.000 ug/ml    0.00
   Standard Area 1 = 173819                 Recovery   =  102.01%
115) IS1_Perylene-d12          12.609  264    206959     4.000 ug/ml    0.00
   Standard Area 1 = 202944                 Recovery   =  101.98%

 System Monitoring Compounds
 4) 2-Fluorophenol              2.996  112     36238     4.708 ug/ml   0.00
   Spiked Amount     2.000   Range  15 - 110    Recovery   =  235.40%#
 7) Phenol-d6                   3.984   99     44501     4.514 ug/ml   0.00
   Spiked Amount     2.000   Range  15 - 110    Recovery   =  225.70%#
19) Nitrobenzene-d5             4.833   82     41614     4.652 ug/ml   0.00
   Spiked Amount     1.000   Range  30 - 130    Recovery   =  465.20%#
48) 2-Fluorobiphenyl            6.592  172    121772     4.404 ug/ml   0.00
   Spiked Amount     1.000   Range  30 - 130    Recovery   =  440.40%#
81) 2,4,6-Tribromophenol        7.969  330     24120     4.697 ug/ml   0.00
   Spiked Amount     2.000   Range  15 - 110    Recovery   =  234.85%#
98) 4-Terphenyl-d14            10.191  244    200195     4.515 ug/ml   0.00
   Spiked Amount     1.000   Range  30 - 130    Recovery   =  451.50%#

 Target Compounds                                                   Qvalue
 2) n-Nitrosodimethylamine      1.600   74      22641      4.799 ug/ml#    79
 3) Pyridine                    1.641   79      28316M1    3.965 ug/ml
 5) Aniline                     3.969   93      50034      4.266 ug/ml     95
 6) 2-Chlorophenol              4.077  128      43409      4.734 ug/ml#    87
 8) Phenol                      3.997   94      48485      4.559 ug/ml     96
 9) Bis(2-chloroethyl)ether     4.056   93      36003      4.728 ug/ml     99
10) 1,3-Dichlorobenzene         4.224  146      53479      4.532 ug/ml     94
11) 1,4-Dichlorobenzene         4.298  146      55162      4.578 ug/ml     94
12) 1,2-Dichlorobenzene         4.447  146      52815      4.599 ug/ml     94
13) Benzyl alcohol              4.450   79      32533      4.673 ug/ml     99
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNICV.D
Acq On : 5 Nov 2024 11:59 pm
Operator : Dakota:HNY
Sample : CQICV1,32,,ABNICV Lot# 11138
Misc : WG1994500
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 11 15:34:43 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Nov 11 15:34:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL7.D
: 2 - I:\8270\Dakota\241105RVTICAL\ADPL7.D
Sub List : ABNical - ABN ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 14) Bis(2-chloroisopropyl)... | 4.593 | 45 | 62522 | 4.656 ug/ml# | 63 |
| 15) 2-Methylphenol | 4.590 | 108 | 37053 | 4.586 ug/ml | 100 |
| 16) Hexachloroethane | 4.771 | 117 | 19810 | 4.490 ug/ml# | 48 |
| 17) n-Nitrosodi-n-propylamine | 4.721 | 70 | 28948 | 4.483 ug/ml# | 87 |
| 18) 3-Methylphenol/4-Methy... | 4.749 | 108 | 39726 | 4.488 ug/ml | 100 |
| 20) Nitrobenzene | 4.848 | 77 | 42031 | 4.594 ug/ml | 97 |
| 21) Isophorone | 5.094 | 82 | 75307 | 4.477 ug/ml | 95 |
| 22) 2-Nitrophenol | 5.165 | 139 | 20467 | 4.419 ug/ml# | 86 |
| 23) 2,4-Dimethylphenol | 5.255 | 107 | 31220 | 3.789 ug/ml | 99 |
| 24) Bis(2-chloroethoxy)met... | 5.339 | 93 | 49166 | 4.692 ug/ml# | 97 |
| 25) 2,4-Dichlorophenol | 5.405 | 162 | 43788 | 4.552 ug/ml# | 92 |
| 26) 1,2,4-Trichlorobenzene | 5.479 | 180 | 53081 | 4.560 ug/ml | 96 |
| 38) Naphthalene | 5.538 | 128 | 136778 | 4.451 ug/ml | 99 |
| 39) Benzoic Acid | 5.346 | 105 | 24373 | 3.831 ug/ml | 92 |
| 40) 4-Chloroaniline | 5.622 | 65 | 14569 | 4.314 ug/ml# | 63 |
| 41) Hexachlorobutadiene | 5.697 | 225 | 33536 | 4.646 ug/ml | 99 |
| 42) p-Chloro-m-cresol | 6.126 | 107 | 36518 | 4.511 ug/ml | 91 |
| 43) 2-Methylnaphthalene | 6.216 | 142 | 96343 | 4.531 ug/ml | 95 |
| 44) 1-Methylnaphthalene | 6.309 | 115 | 30554 | 4.519 ug/ml | 93 |
| 45) Hexachlorocyclopentadiene | 6.390 | 237 | 29425 | 3.870 ug/ml | 99 |
| 46) 2,4,6-Trichlorophenol | 6.508 | 196 | 36634 | 4.577 ug/ml | 98 |
| 47) 2,4,5-Trichlorophenol | 6.536 | 196 | 39640 | 4.429 ug/ml | 99 |
| 49) 2-Chloronaphthalene | 6.676 | 162 | 103138 | 4.332 ug/ml | 93 |
| 50) 2-Nitroaniline | 6.794 | 138 | 27096 | 4.447 ug/ml# | 78 |
| 51) 1,4-Dinitrobenzene | 6.928 | 168 | 11911 | 4.501 ug/ml | 83 |
| 52) 1,3-Dinitrobenzene | 7.002 | 168 | 14057 | 4.435 ug/ml# | 1 |
| 53) Dimethyl phthalate | 7.005 | 163 | 122829 | 4.438 ug/ml# | 98 |
| 54) Acenaphthylene | 7.067 | 152 | 155180 | 4.438 ug/ml | 99 |
| 55) 2,6-Dinitrotoluene | 7.043 | 165 | 23242 | 4.499 ug/ml# | 79 |
| 56) 1,2-Dinitrobenzene | 7.080 | 168 | 9499 | 5.134 ug/ml# | 1 |
| 66) 3-Nitroaniline | 7.192 | 138 | 26098 | 4.705 ug/ml# | 86 |
| 67) Acenaphthene | 7.238 | 154 | 89205 | 4.270 ug/ml | 87 |
| 68) 2,4-Dinitrophenol | 7.291 | 184 | 13757 | 4.126 ug/ml# | 80 |
| 69) Dibenzofuran | 7.409 | 168 | 160445 | 4.454 ug/ml | 90 |
| 70) 2,4-Dinitrotoluene | 7.425 | 165 | 33658 | 4.841 ug/ml# | 80 |
| 71) 4-Nitrophenol | 7.394 | 65 | 19325 | 4.673 ug/ml# | 28 |
| 72) 2,3,5,6-Tetrachlorophenol | 7.506 | 232 | 35437 | 4.522 ug/ml | 98 |
| 73) 2,3,4,6-Tetrachlorophenol | 7.543 | 232 | 35578 | 4.631 ug/ml | 98 |
| 74) Diethyl phthalate | 7.689 | 149 | 123901 | 4.382 ug/ml | 98 |

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNICV.D
Acq On : 5 Nov 2024 11:59 pm
Operator : Dakota:HNY
Sample : CQICV1,32,,ABNICV Lot# 11138
Misc : WG1994500
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 11 15:34:43 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Nov 11 15:34:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL7.D
: 2 - I:\8270\Dakota\241105RVTICAL\ADPL7.D
Sub List : ABNical - ABN ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 75) Fluorene | 7.736 | 166 | 122050 | 4.424 ug/ml | 92 |
| 76) 4-Chlorophenyl phenyl ... | 7.764 | 204 | 63042 | 4.434 ug/ml# | 86 |
| 77) 4-Nitroaniline | 7.773 | 138 | 26907 | 5.018 ug/ml# | 77 |
| 78) 4,6-Dinitro-o-cresol | 7.810 | 198 | 19382 | 4.612 ug/ml# | 59 |
| 79) NDPA/DPA | 7.879 | 169 | 105614 | 4.400 ug/ml | 93 |
| 80) Azobenzene | 7.910 | 77 | 105841 | 4.602 ug/ml | 98 |
| 82) 4-Bromophenyl phenyl e... | 8.227 | 248 | 40811 | 4.357 ug/ml# | 79 |
| 83) Hexachlorobenzene | 8.267 | 284 | 49668 | 4.213 ug/ml# | 80 |
| 84) Pentachlorophenol | 8.463 | 266 | 29051 | 4.546 ug/ml | 99 |
| 91) Phenanthrene | 8.646 | 178 | 199979 | 4.414 ug/ml | 99 |
| 92) Anthracene | 8.693 | 178 | 203231 | 4.574 ug/ml | 99 |
| 93) Carbazole | 8.867 | 167 | 188138 | 4.614 ug/ml | 98 |
| 94) Di-n-butylphthalate | 9.271 | 149 | 214371 | 4.637 ug/ml# | 98 |
| 95) Fluoranthene | 9.781 | 202 | 246949 | 4.533 ug/ml# | 91 |
| 96) Benzidine | 9.946 | 184 | 136878 | 4.630 ug/ml# | 95 |
| 97) Pyrene | 9.989 | 202 | 272087 | 4.674 ug/ml | 99 |
| 99) Butyl benzyl phthalate | 10.707 | 149 | 94148 | 4.755 ug/ml# | 83 |
| 107) Benzo(a)anthracene | 11.183 | 228 | 267033 | 4.445 ug/ml | 99 |
| 108) 3,3'-Dichlorobenzidine | 11.195 | 252 | 106445 | 4.756 ug/ml# | 95 |
| 109) Chrysene | 11.217 | 228 | 263085 | 4.399 ug/ml | 98 |
| 110) Bis(2-ethylhexyl)phtha... | 11.335 | 149 | 152756 | 4.744 ug/ml# | 89 |
| 111) Di-n-octylphthalate | 11.994 | 149 | 254994 | 4.747 ug/ml# | 72 |
| 112) Benzo(b)fluoranthene | 12.252 | 252 | 282392 | 4.487 ug/ml# | 94 |
| 113) Benzo(k)fluoranthene | 12.280 | 252 | 288769 | 4.709 ug/ml# | 93 |
| 114) Benzo(a)pyrene | 12.553 | 252 | 262323 | 4.671 ug/ml# | 93 |
| 116) Indeno(1,2,3-cd)pyrene | 13.545 | 276 | 292191 | 4.576 ug/mL# | 89 |
| 117) Dibenzo(a,h)anthracene | 13.570 | 278 | 293099 | 4.671 ug/ml# | 89 |
| 118) Benzo(ghi)perylene | 13.753 | 276 | 274527 | 4.451 ug/ml# | 86 |

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

Quantitation Report    (QT Reviewed)

```
Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNICV.D
Acq On    :  5 Nov 2024  11:59 pm
Operator  : Dakota:HNY
Sample    : CQICV1,32,,ABNICV Lot# 11138
Misc      : WG1994500
ALS Vial  : 19   Sample Multiplier: 1

Quant Time: Nov 11 15:34:43 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Nov 11 15:34:18 2024
Response via : Initial Calibration

Sub List     : ABNical - ABN ical sublistVTICAL\ADPL7.D•
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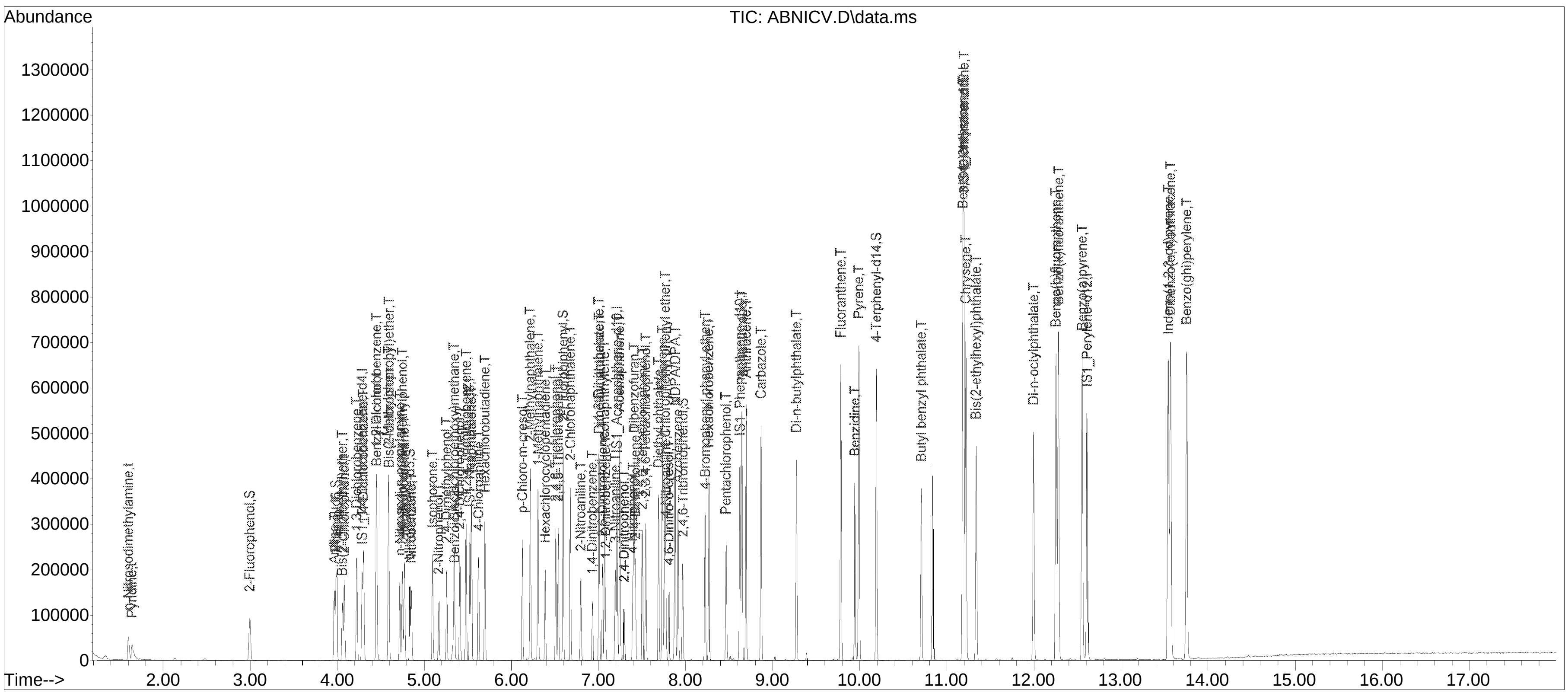
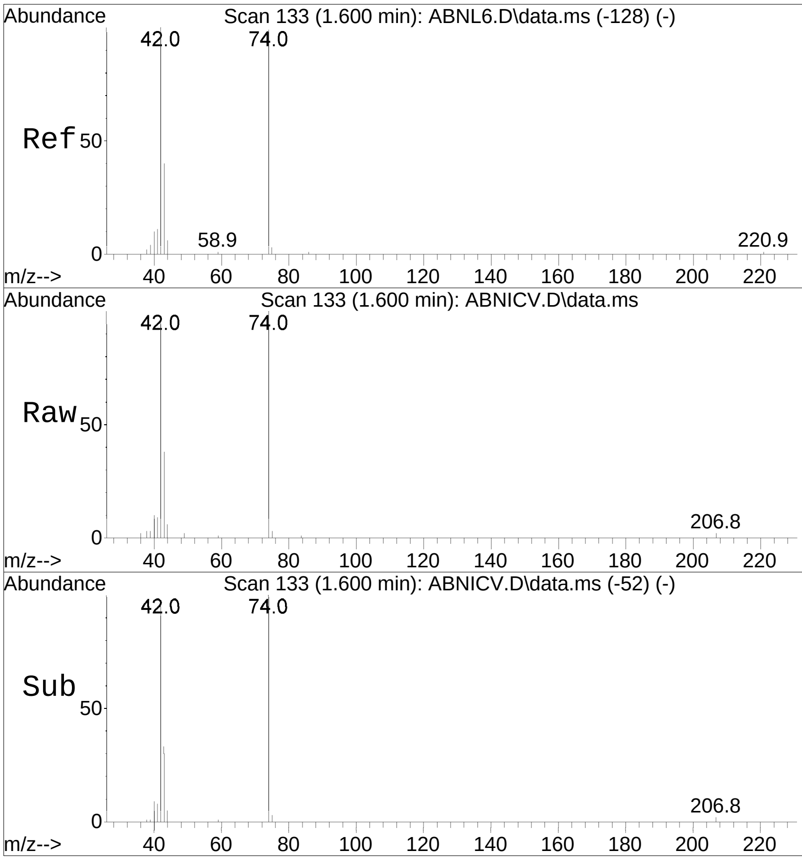
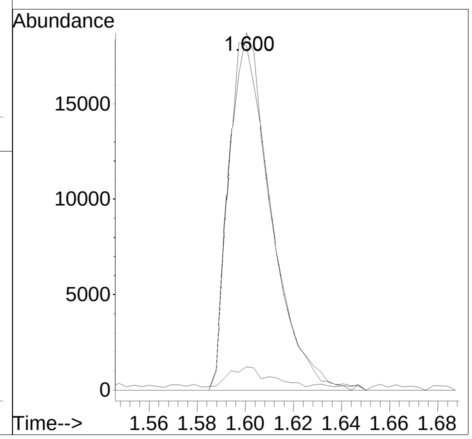


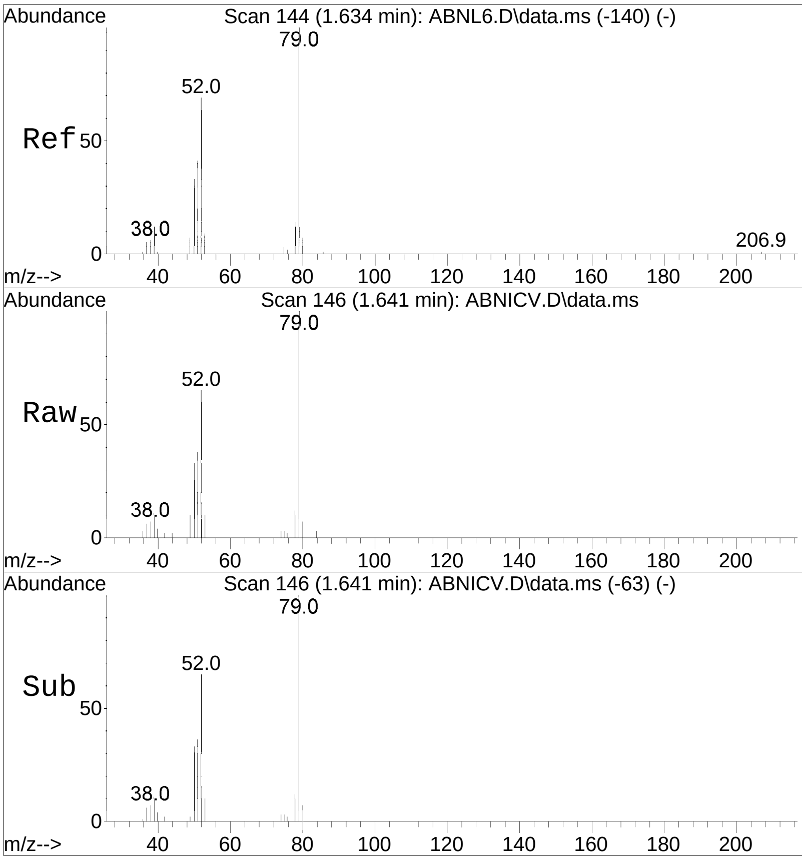



#2
n-Nitrosodimethylamine
Concen: 4.80 ug/ml
RT: 1.600 min Scan# 133
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 74 Resp: 22641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 42 | 99.8 | 100.0 | 150.0# |
| 44 | 5.3 | 6.7 | 10.1# |

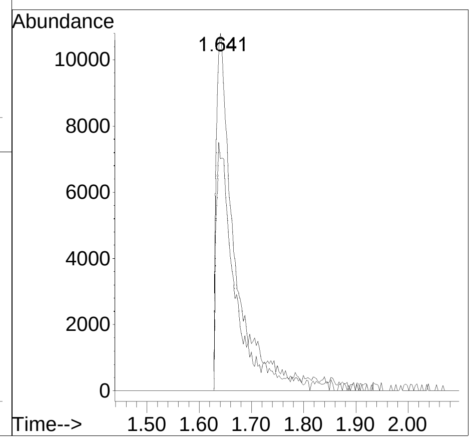


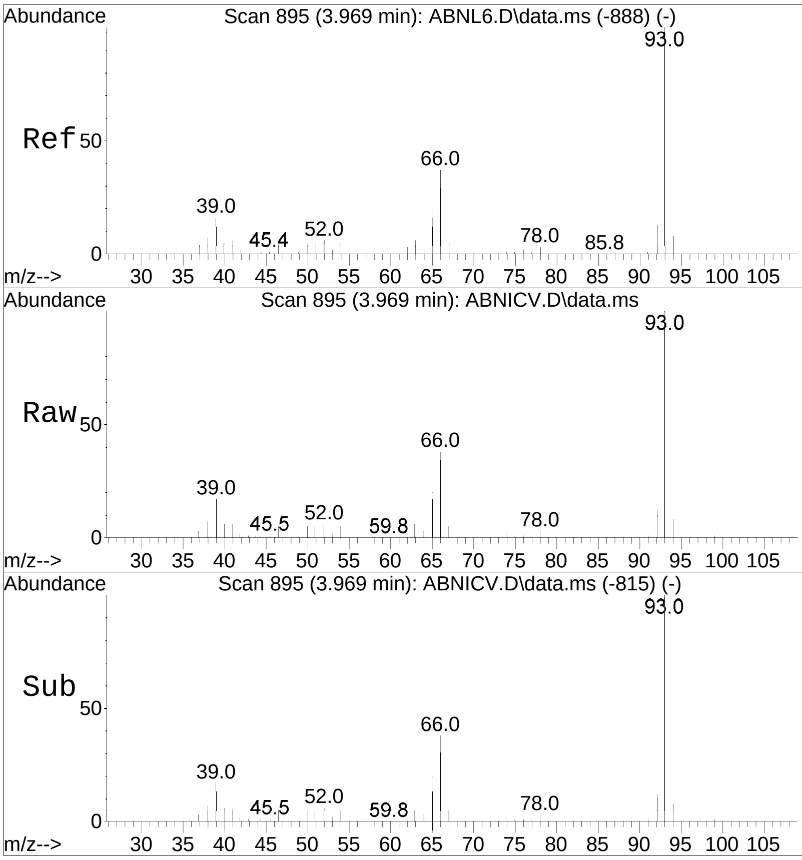



#3
Pyridine
Concen: 3.97 ug/ml M1
RT: 1.641 min Scan# 146
Delta R.T. 0.007 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 79 Resp: 28316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 57.6 | 93.1 | 139.7# |

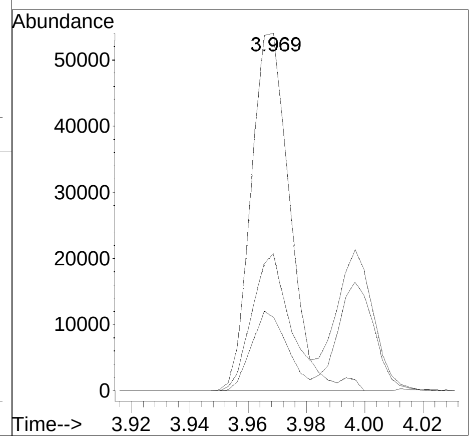


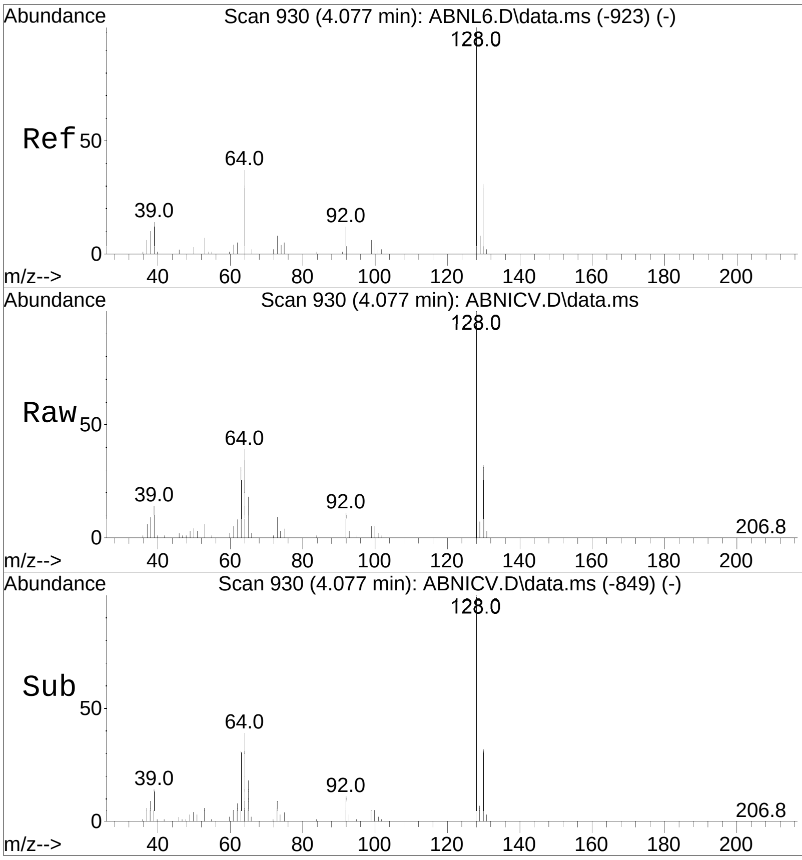



#5
Aniline
Concen: 4.27 ug/ml
RT: 3.969 min Scan# 895
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 93 Resp: 50034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 37.2 | 32.6 | 49.0 |
| 65 | 20.8 | 17.6 | 26.4 |

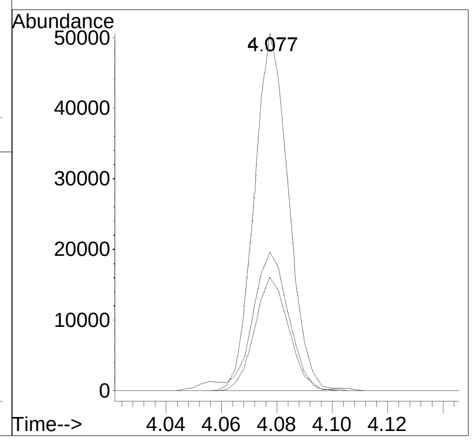


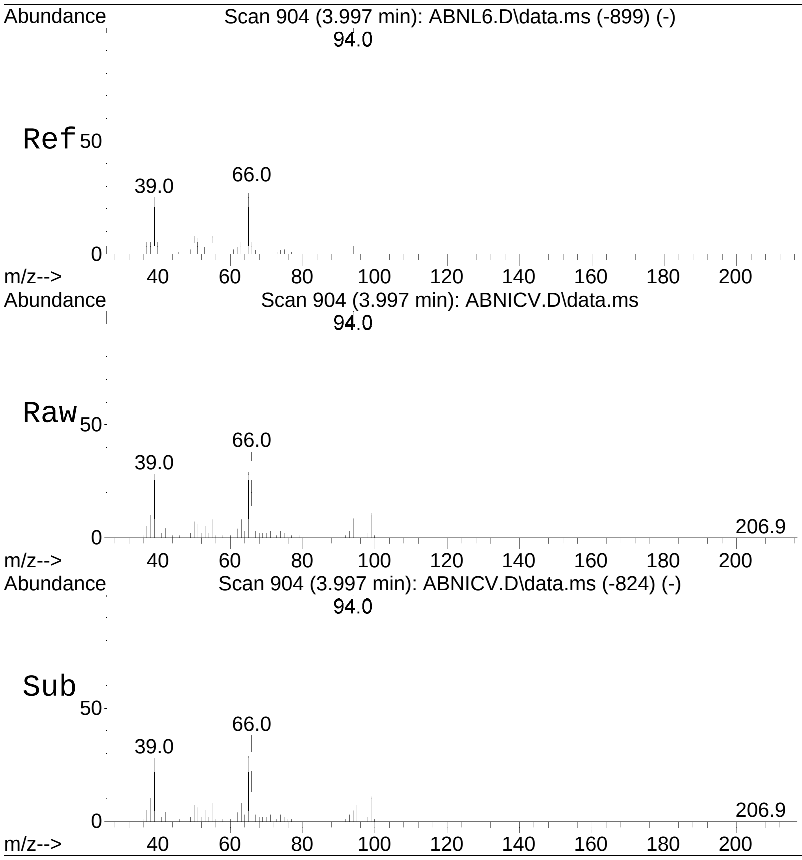



#6
2-Chlorophenol
Concen: 4.73 ug/ml
RT: 4.077 min Scan# 930
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:128 Resp: 43409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 64 | 42.2 | 45.1 | 67.7# |
| 130 | 31.8 | 26.2 | 39.4 |

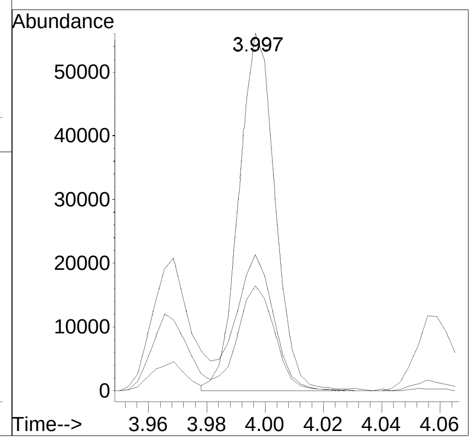


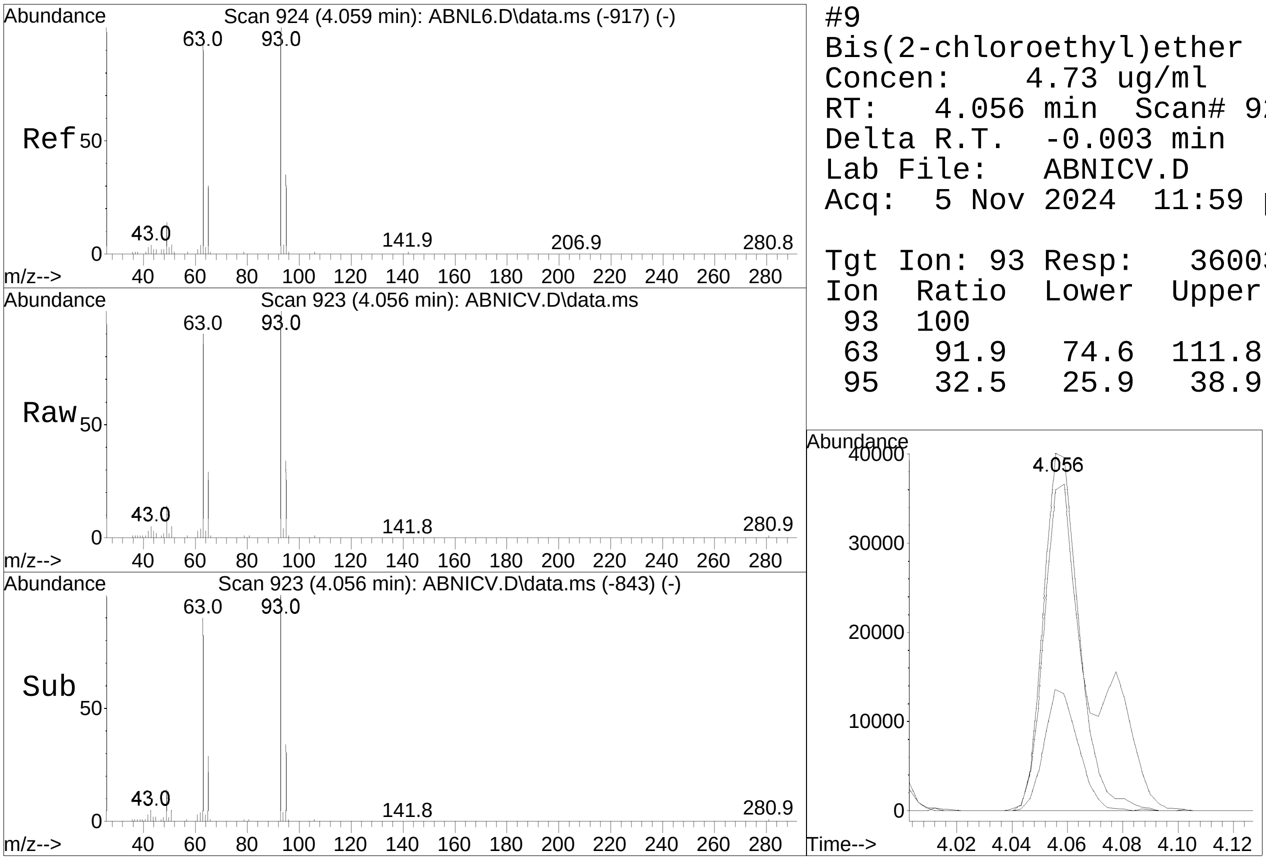



#8
Phenol
Concen: 4.56 ug/ml
RT: 3.997 min Scan# 904
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 94 Resp: 48485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 30.1 | 26.0 | 39.0 |
| 66 | 40.2 | 33.8 | 50.8 |

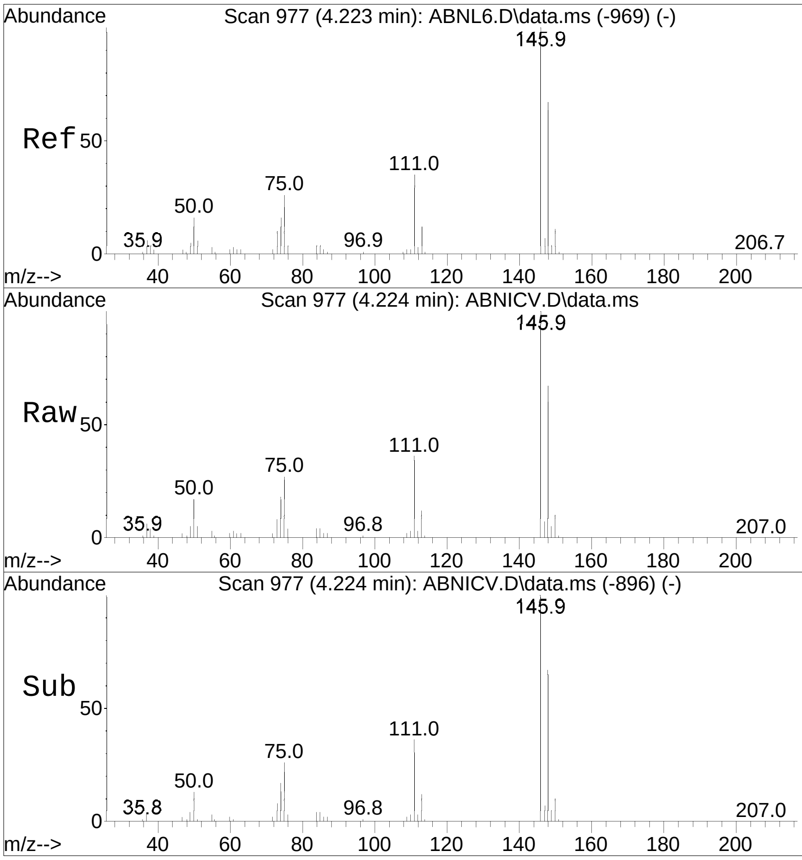





#9
Bis(2-chloroethyl)ether
Concen: 4.73 ug/ml
RT: 4.056 min Scan# 923
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 93 Resp: 36003

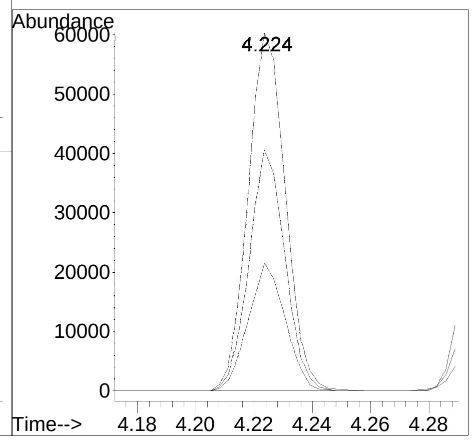
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 91.9 | 74.6 | 111.8 |
| 95 | 32.5 | 25.9 | 38.9 |

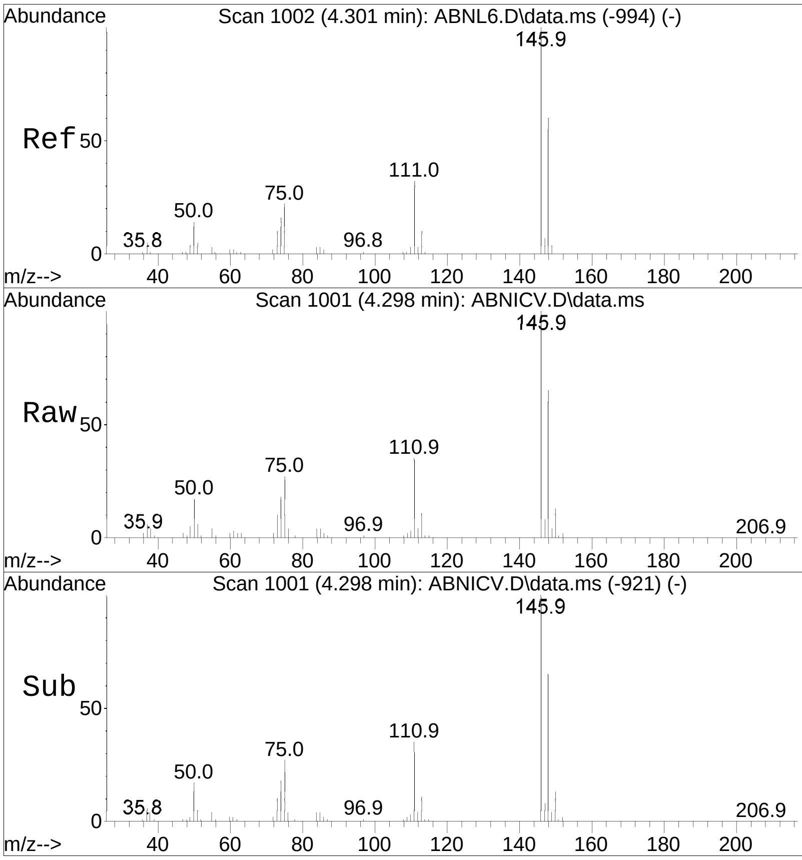



#10
1,3-Dichlorobenzene
Concen: 4.53 ug/ml
RT: 4.224 min Scan# 977
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:146 Resp: 53479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 35.5 | 34.3 | 51.5 |
| 148 | 65.0 | 50.8 | 76.2 |

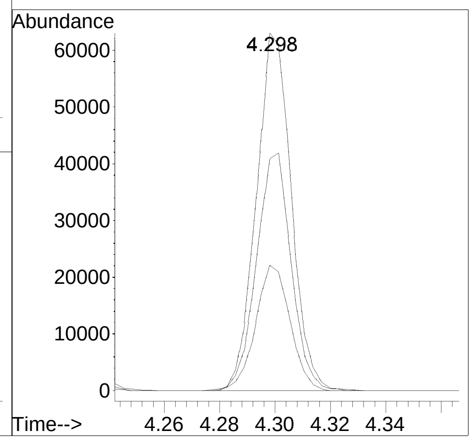


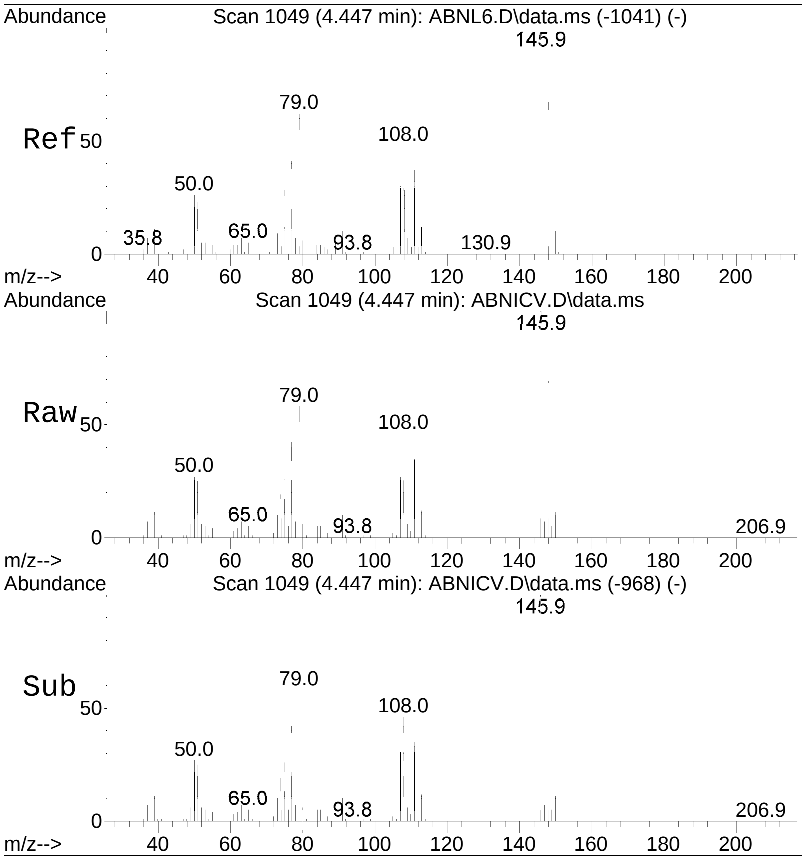



#11
1,4-Dichlorobenzene
Concen: 4.58 ug/ml
RT: 4.298 min Scan# 1001
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:146 Resp: 55162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 66.0 | 50.7 | 76.1 |
| 111 | 34.8 | 33.4 | 50.0 |

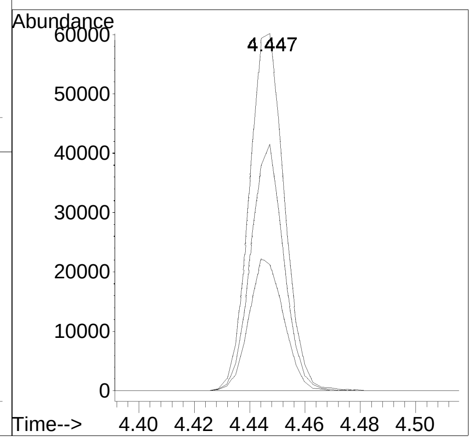


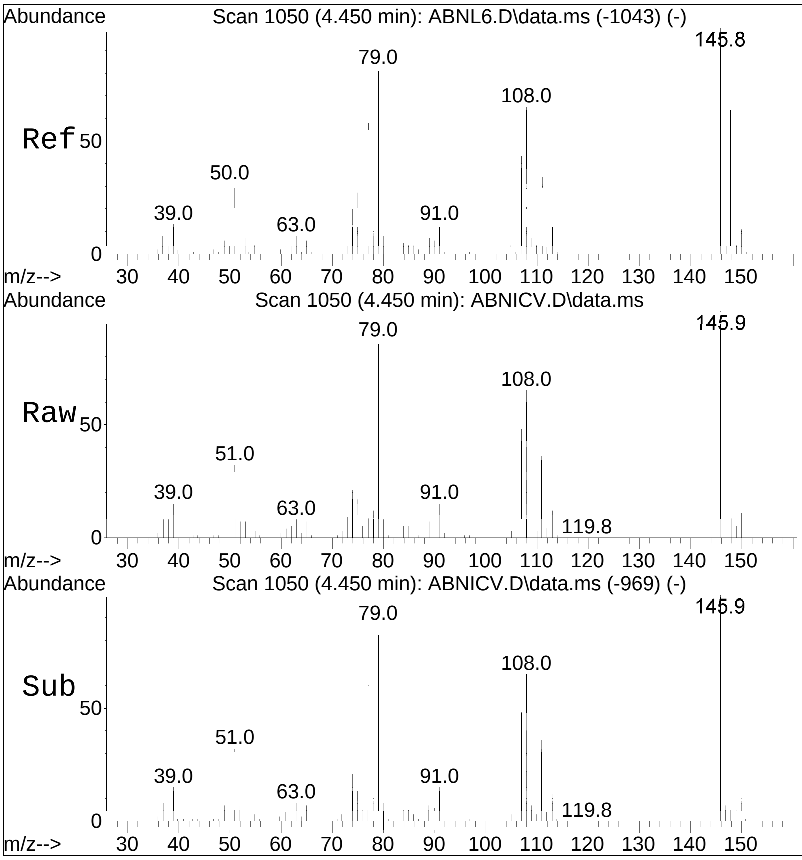



#12
1,2-Dichlorobenzene
Concen: 4.60 ug/ml
RT: 4.447 min Scan# 1049
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:146 Resp: 52815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 36.7 | 34.6 | 52.0 |
| 148 | 65.0 | 50.2 | 75.4 |

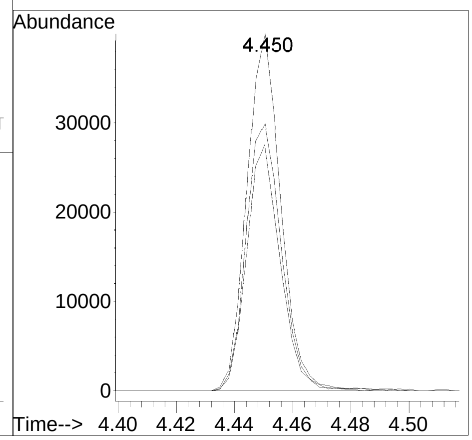


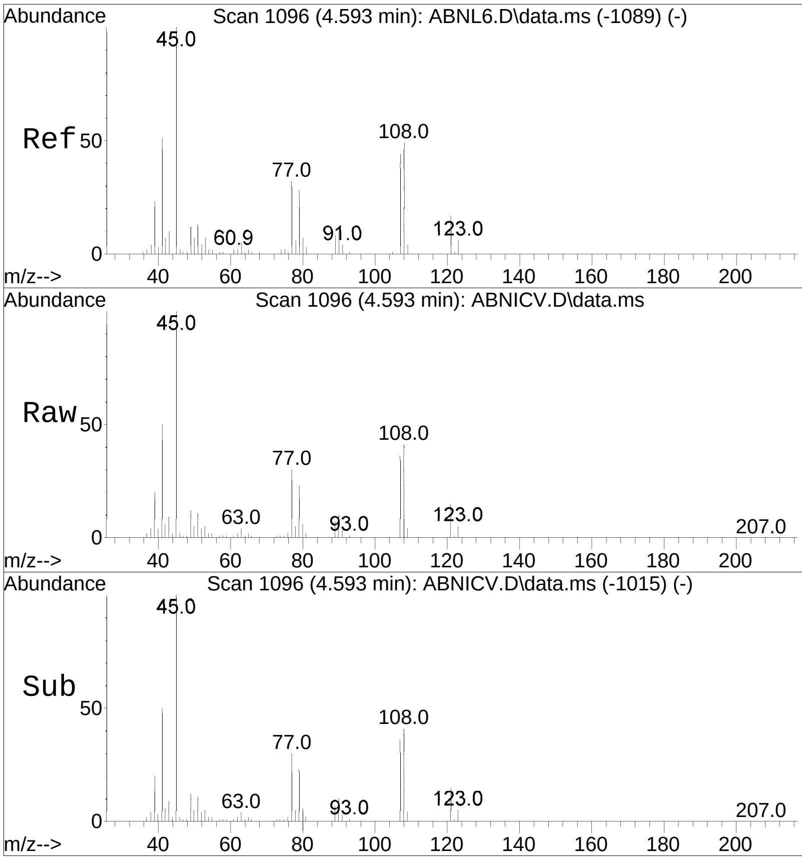



#13
Benzyl alcohol
Concen: 4.67 ug/ml
RT: 4.450 min Scan# 1050
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 79 Resp: 32533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 77 | 69.3 | 54.9 | 82.3 |
| 108 | 77.6 | 63.1 | 94.7 |

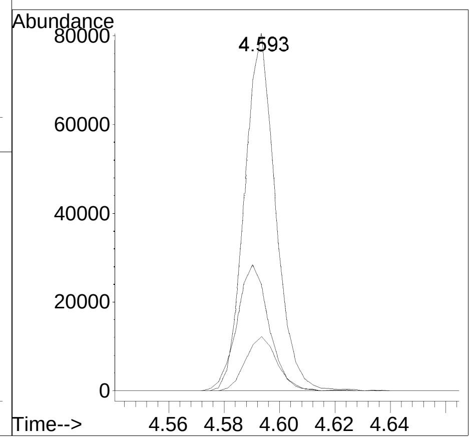


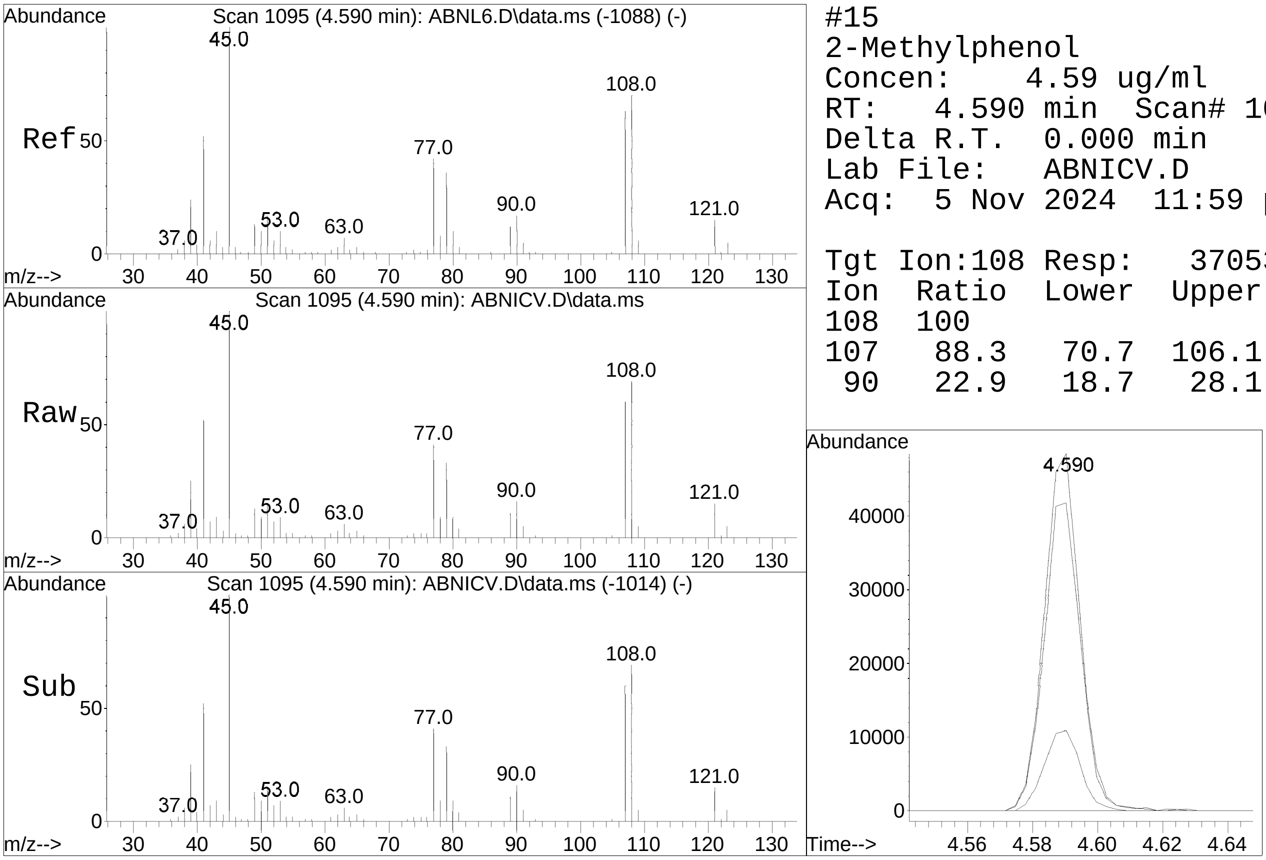



#14
Bis(2-chloroisopropyl)ether
Concen: 4.66 ug/ml
RT: 4.593 min Scan# 1096
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 45 Resp: 62522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 121 | 15.5 | 9.8 | 14.6# |
| 77 | 36.9 | 6.1 | 9.1# |

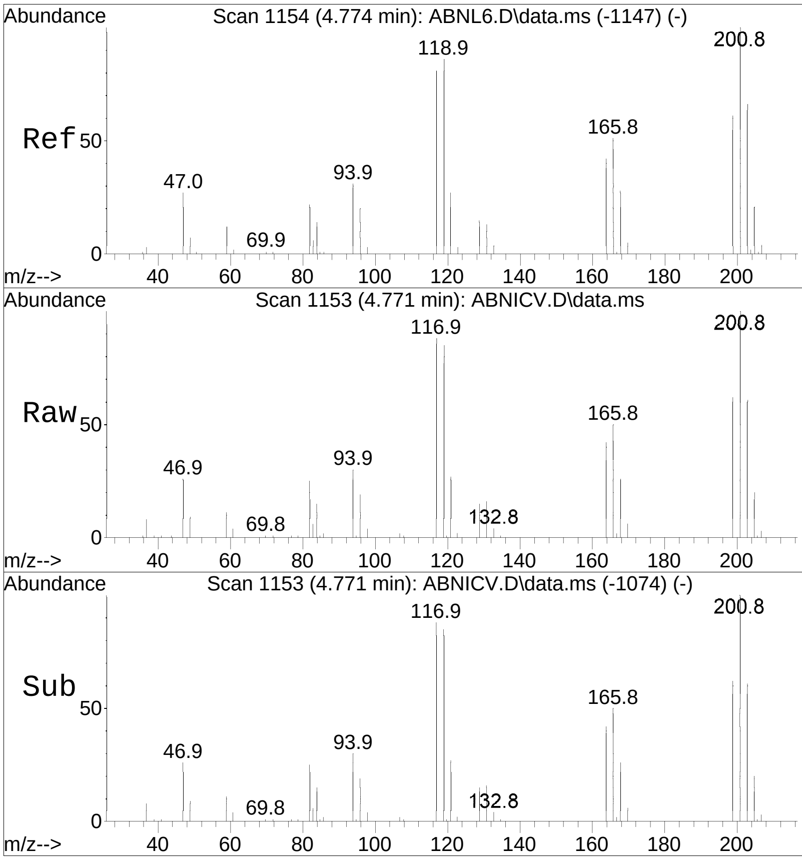





#15
2-Methylphenol
Concen: 4.59 ug/ml
RT: 4.590 min Scan# 1095
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:108 Resp: 37053

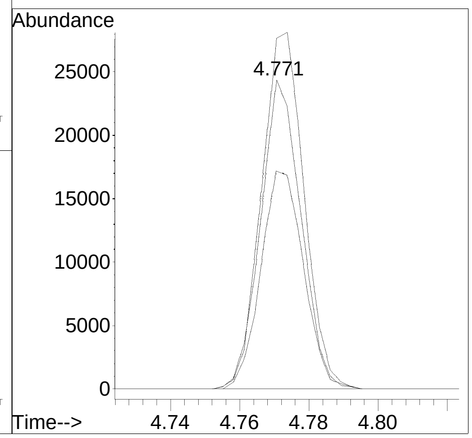
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 107 | 88.3 | 70.7 | 106.1 |
| 90 | 22.9 | 18.7 | 28.1 |

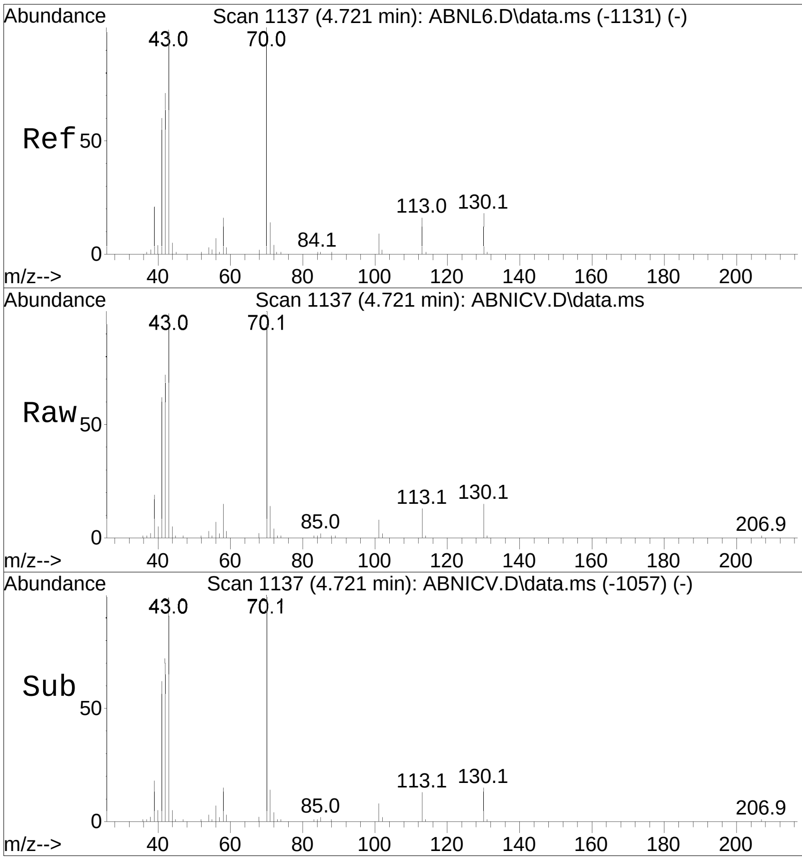



#16
Hexachloroethane
Concen: 4.49 ug/ml
RT: 4.771 min Scan# 1153
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:117 Resp: 19810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 121.1 | 58.6 | 87.8# |
| 199 | 74.6 | 36.9 | 55.3# |

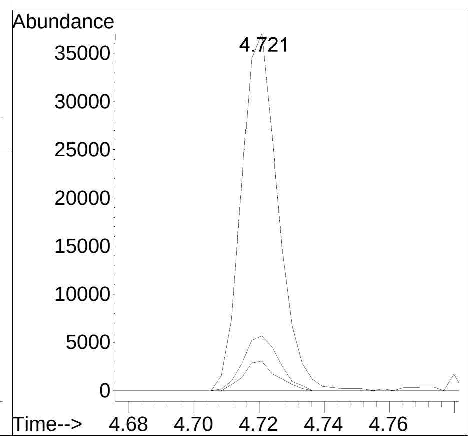


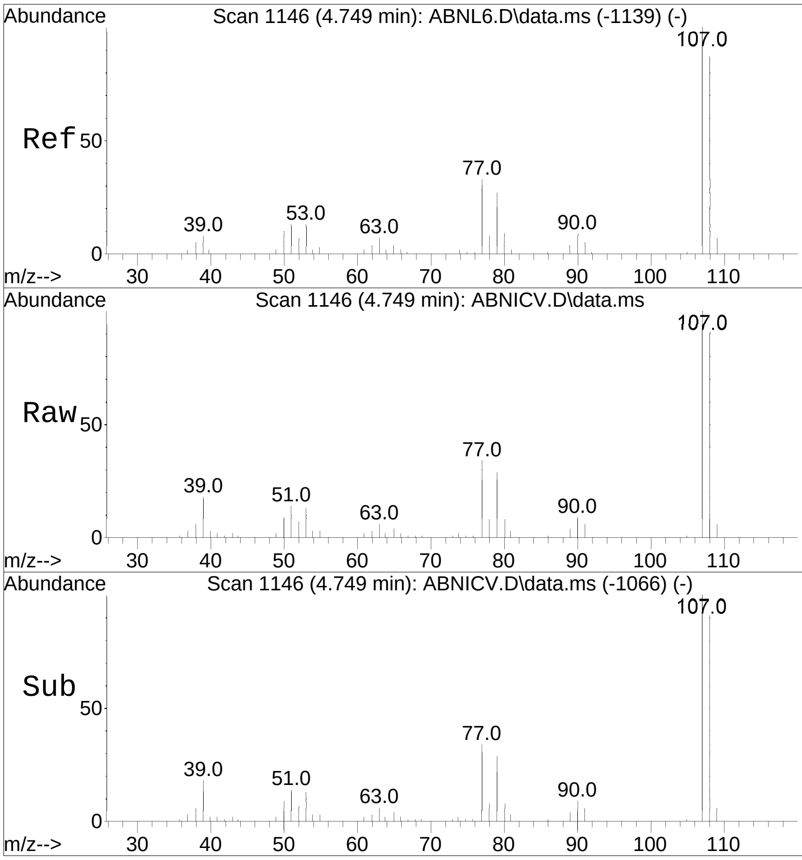



#17
n-Nitrosodi-n-propylamine
Concen: 4.48 ug/ml
RT: 4.721 min Scan# 1137
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 70 Resp: 28948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 130 | 15.1 | 18.2 | 27.4# |
| 101 | 7.5 | 7.8 | 11.8# |

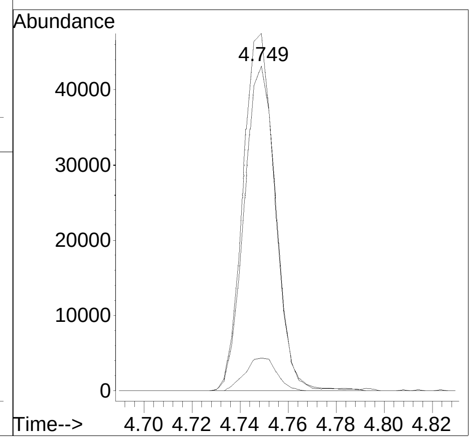


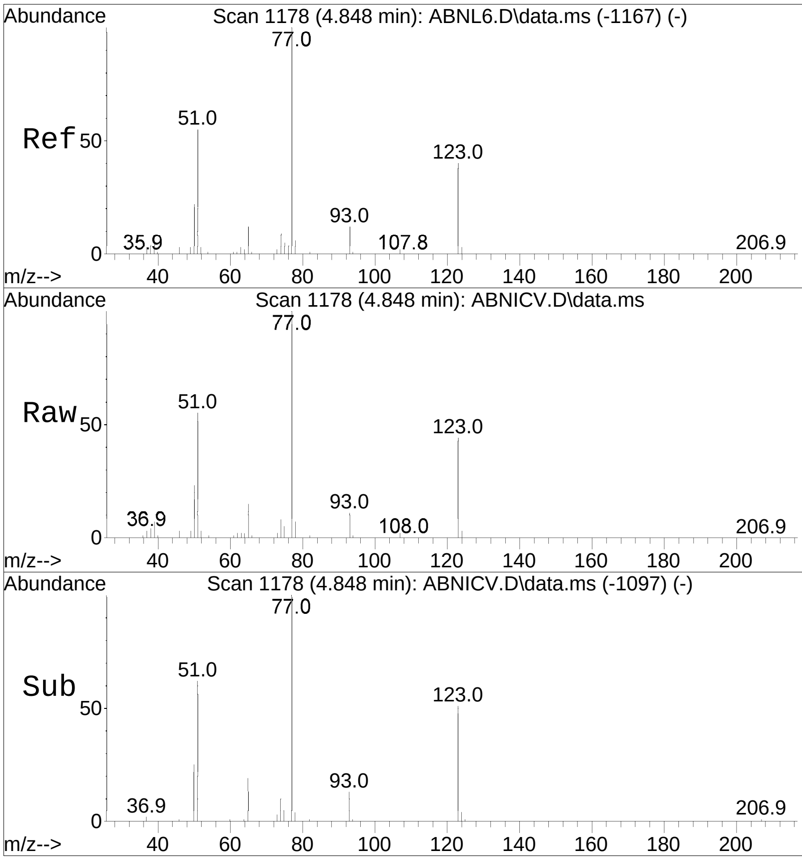



#18
3-Methylphenol/4-Methylphenol
Concen: 4.49 ug/ml
RT: 4.749 min Scan# 1146
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:108 Resp: 39726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 107 | 110.8 | 88.6 | 132.8 |
| 90 | 10.1 | 8.8 | 13.2 |

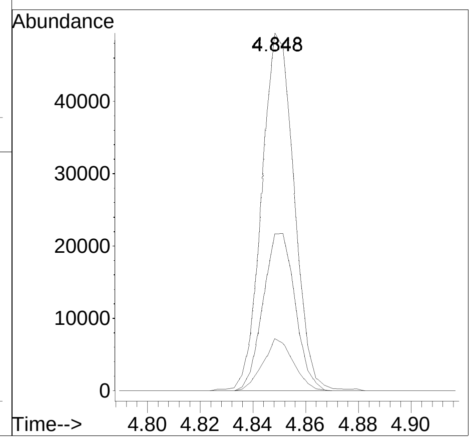


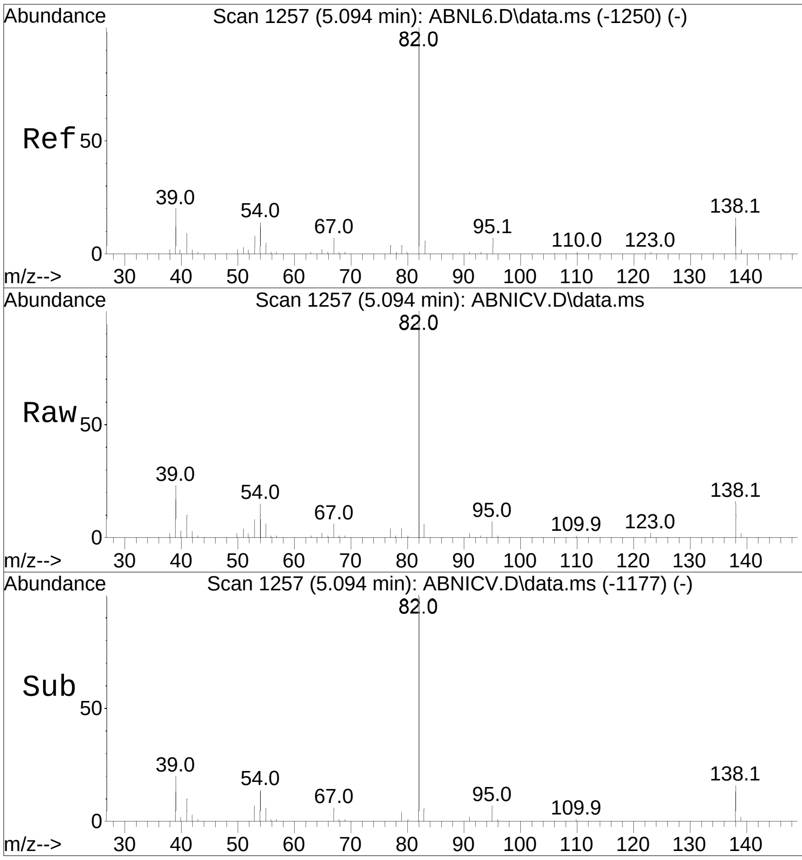



#20
Nitrobenzene
Concen: 4.59 ug/ml
RT: 4.848 min Scan# 1178
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 77 Resp: 42031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 43.6 | 36.3 | 54.5 |
| 65 | 13.7 | 11.6 | 17.4 |

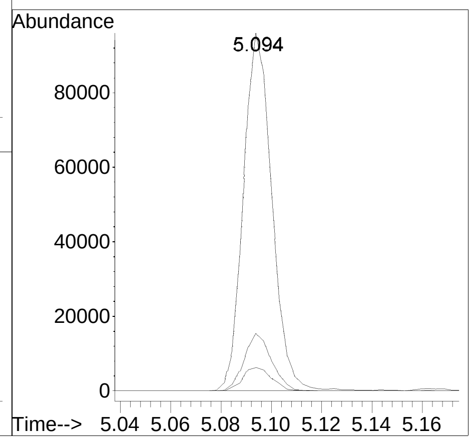


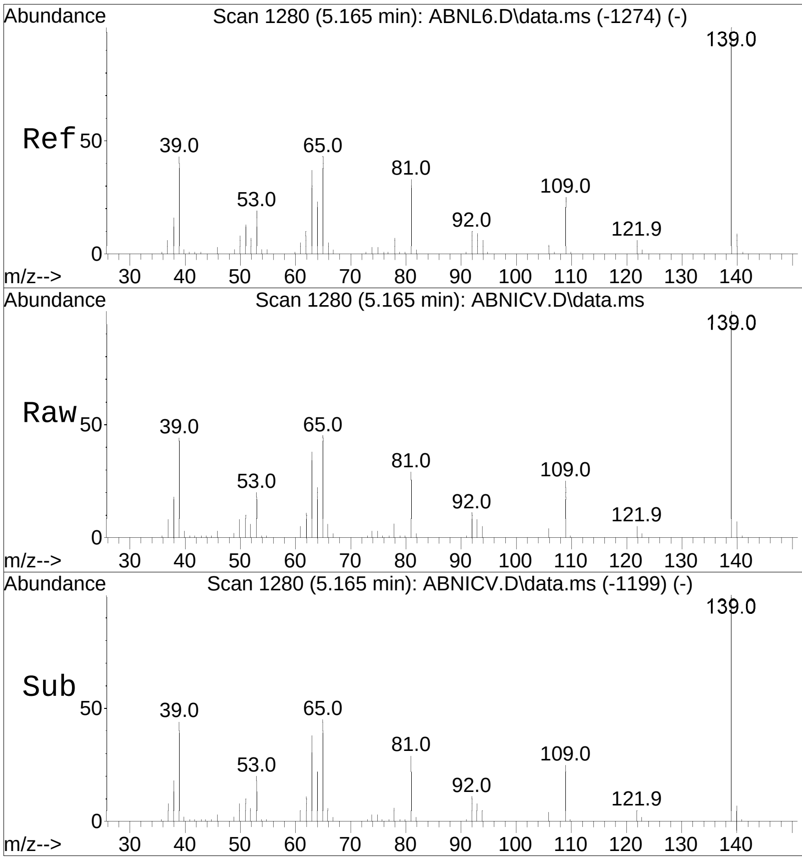



#21
Isophorone
Concen: 4.48 ug/ml
RT: 5.094 min Scan# 1257
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 82 Resp: 75307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 138 | 15.4 | 14.7 | 22.1 |
| 95 | 6.7 | 5.2 | 7.8 |

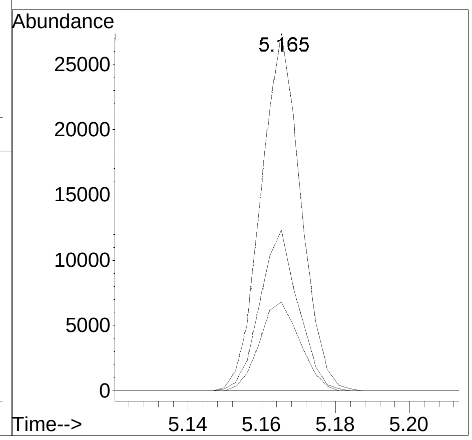


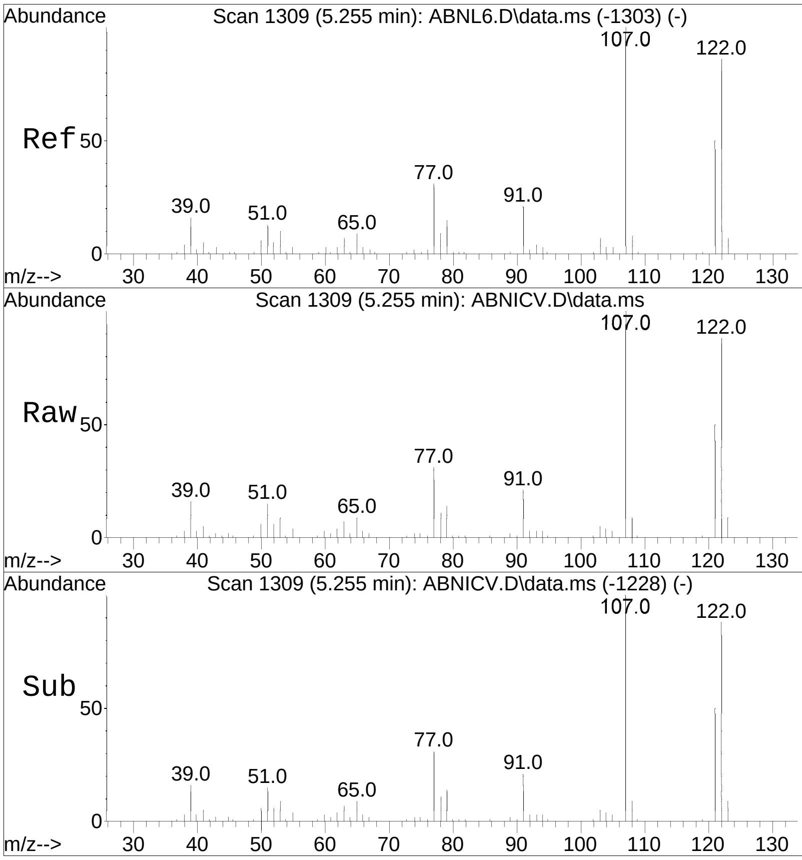



#22
2-Nitrophenol
Concen: 4.42 ug/ml
RT: 5.165 min Scan# 1280
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:139 Resp: 20467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 25.3 | 19.4 | 29.0 |
| 65 | 43.3 | 46.1 | 69.1# |

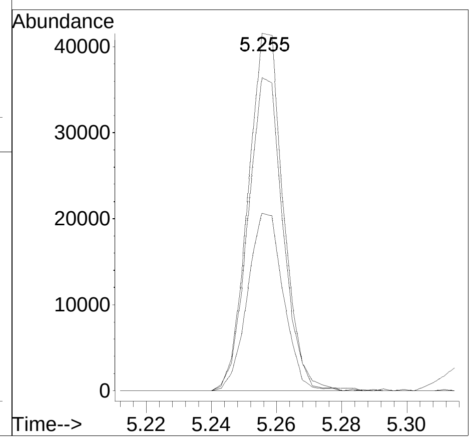


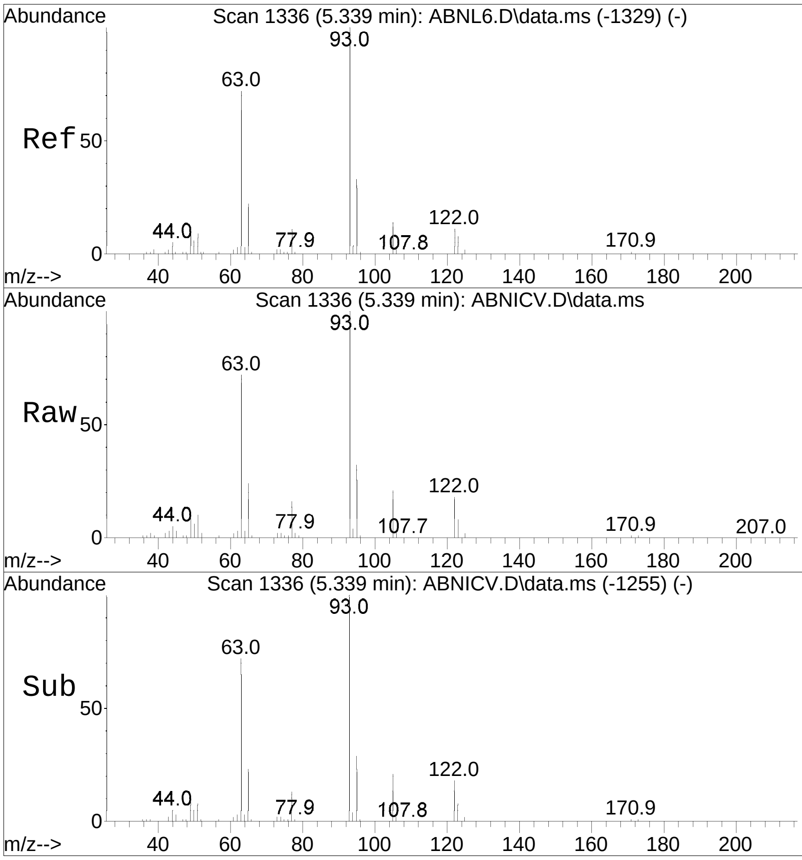



#23
2,4-Dimethylphenol
Concen: 3.79 ug/ml
RT: 5.255 min Scan# 1309
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:107 Resp: 31220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 121 | 50.5 | 40.0 | 60.0 |
| 122 | 87.0 | 70.2 | 105.4 |

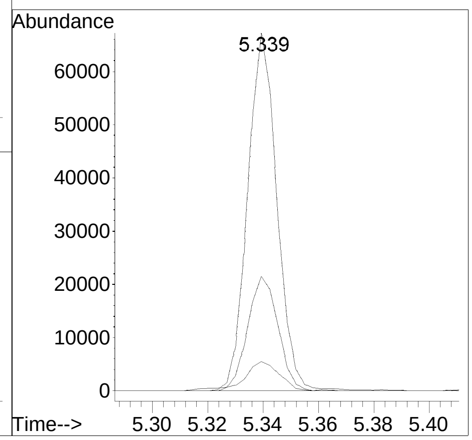


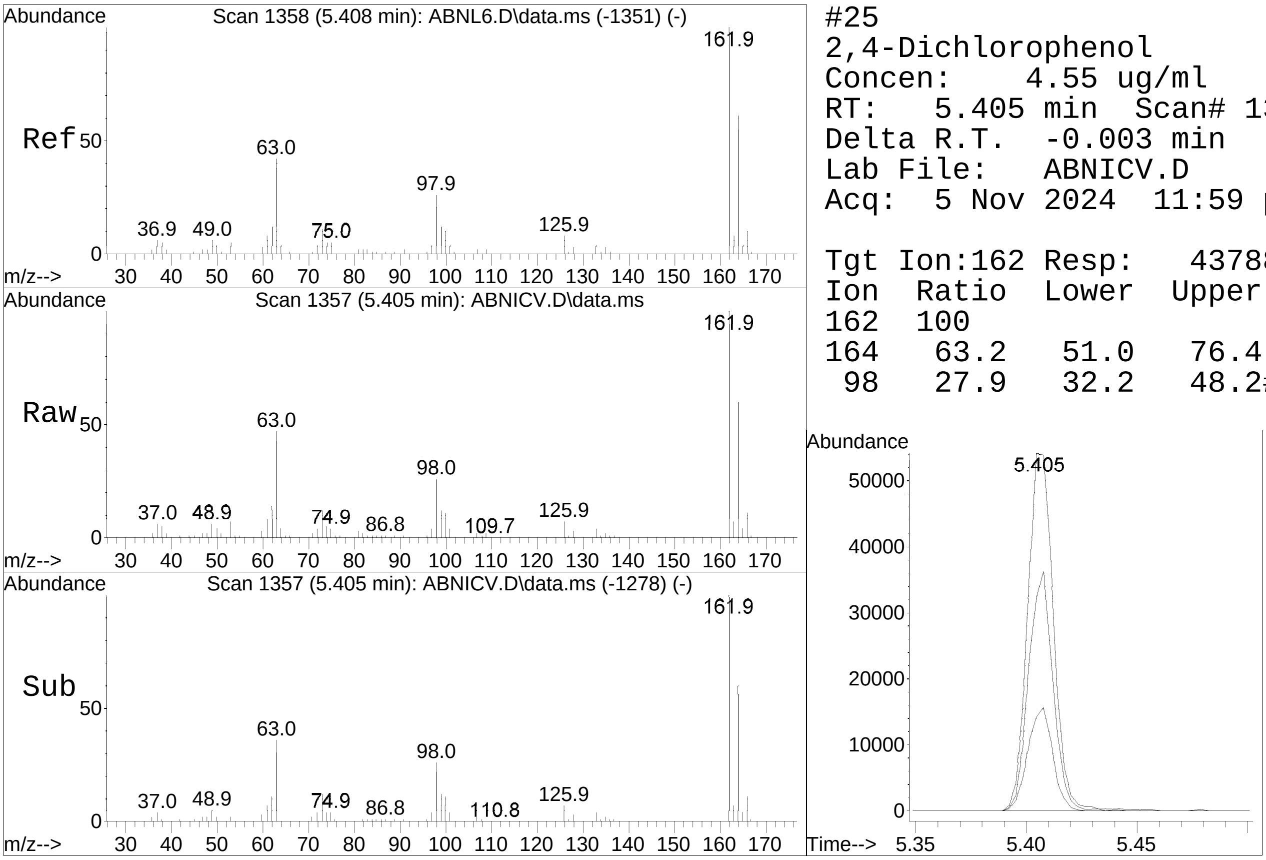



#24
Bis(2-chloroethoxy)methane
Concen: 4.69 ug/ml
RT: 5.339 min Scan# 1336
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 93 Resp: 49166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 33.3 | 25.8 | 38.8 |
| 123 | 9.9 | 10.1 | 15.1# |

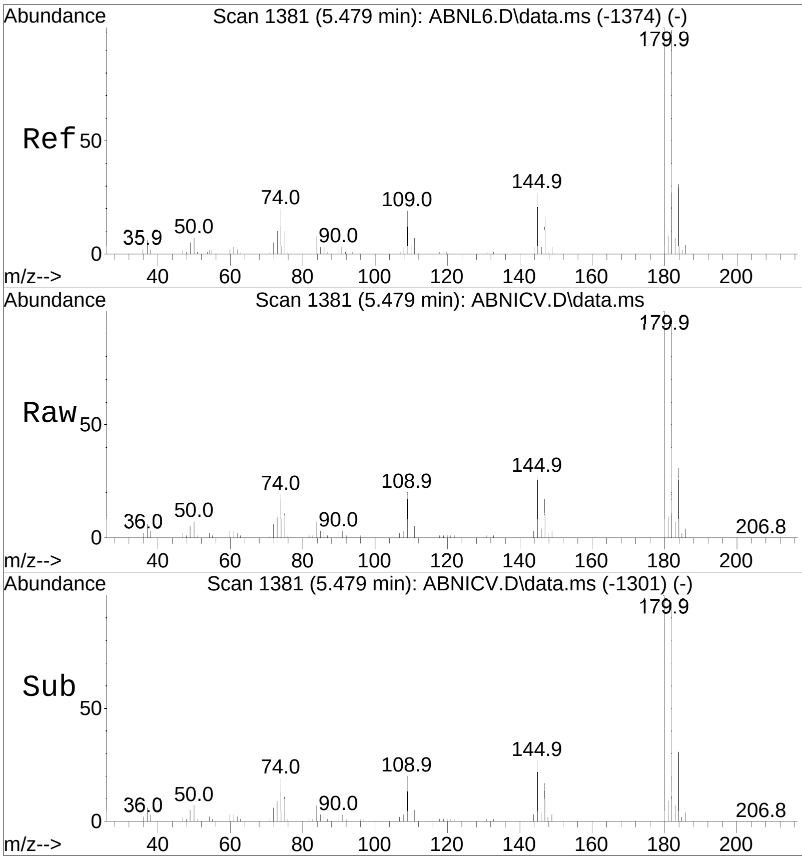





#25
2,4-Dichlorophenol
Concen: 4.55 ug/ml
RT: 5.405 min Scan# 1357
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:162 Resp: 43788

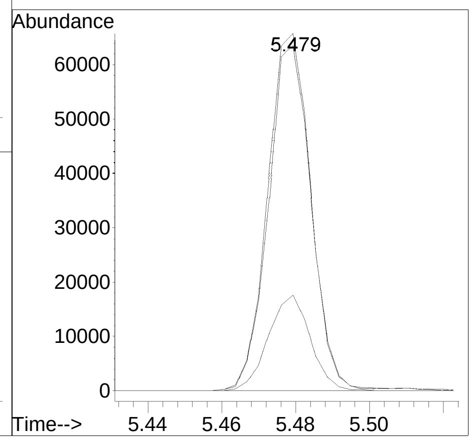
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 63.2 | 51.0 | 76.4 |
| 98 | 27.9 | 32.2 | 48.2# |

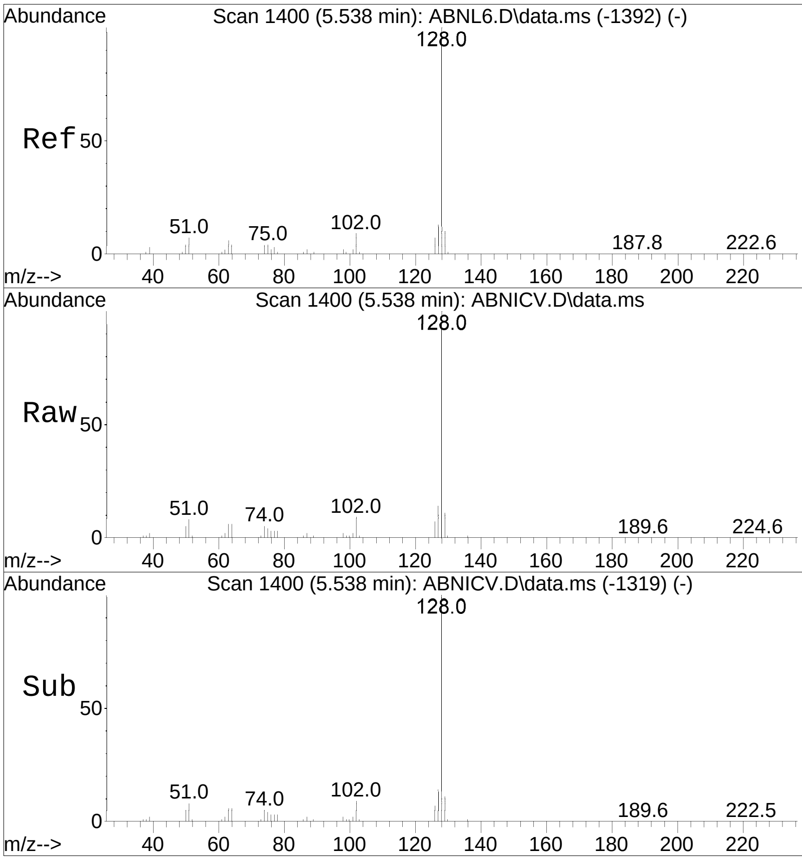



#26
1,2,4-Trichlorobenzene
Concen: 4.56 ug/ml
RT: 5.479 min Scan# 1381
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:180 Resp: 53081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.2 | 76.0 | 114.0 |
| 145 | 26.1 | 25.7 | 38.5 |

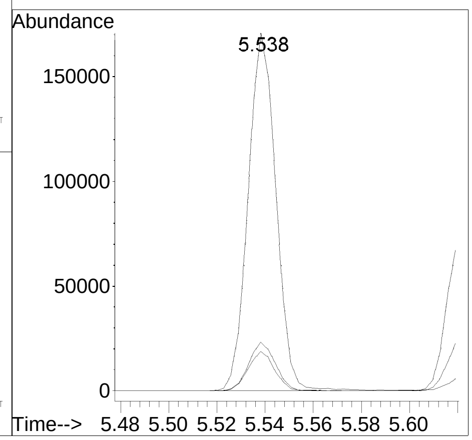


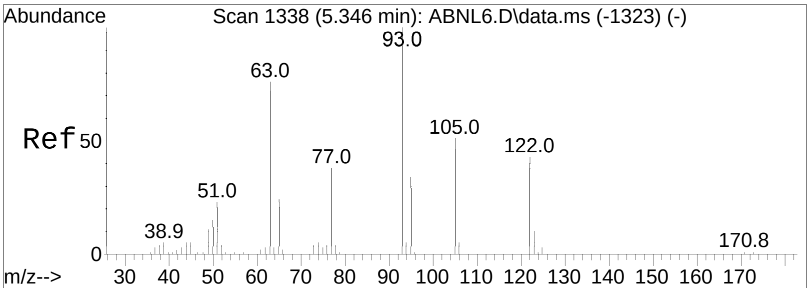


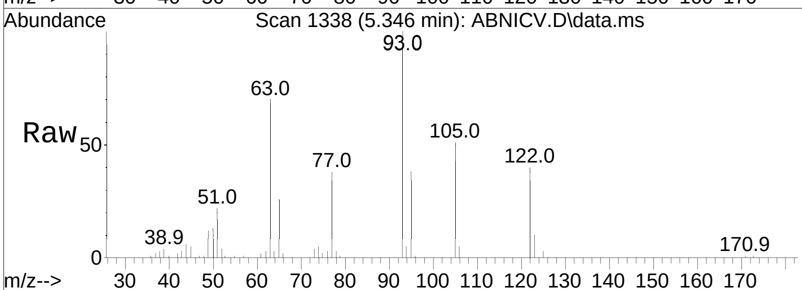

#38
Naphthalene
Concen: 4.45 ug/ml
RT: 5.538 min Scan# 1400
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

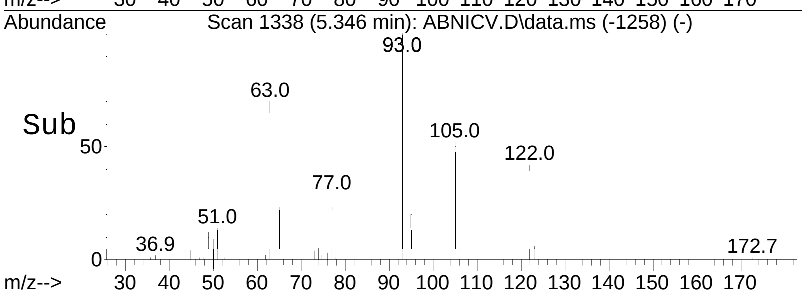
Tgt Ion:128 Resp: 136778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.6 | 8.7 | 13.1 |
| 127 | 13.2 | 10.3 | 15.5 |





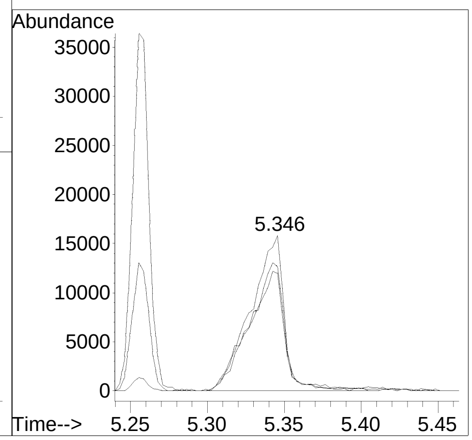



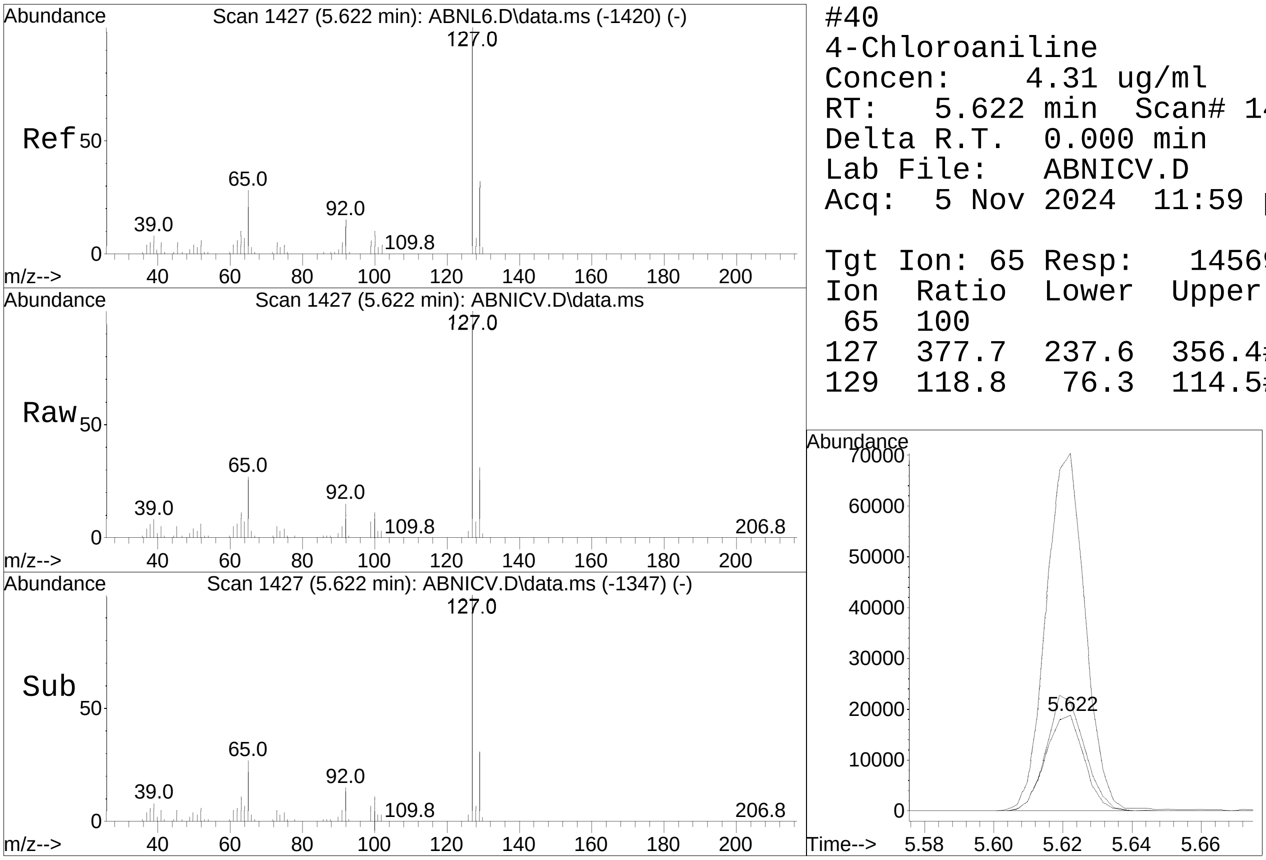




#39
Benzoic Acid
Concen: 3.83 ug/ml
RT: 5.346 min Scan# 1338
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:105 Resp: 24373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 122 | 85.1 | 59.9 | 89.9 |
| 77 | 78.7 | 60.1 | 90.1 |

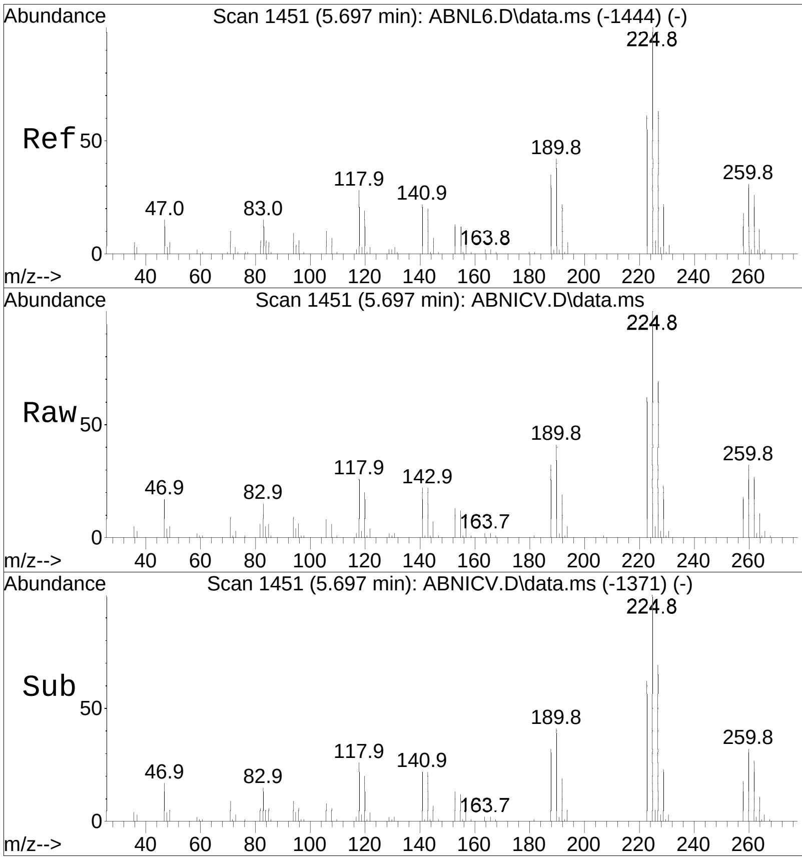





#40
4-Chloroaniline
Concen: 4.31 ug/ml
RT: 5.622 min Scan# 1427
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 65 Resp: 14569

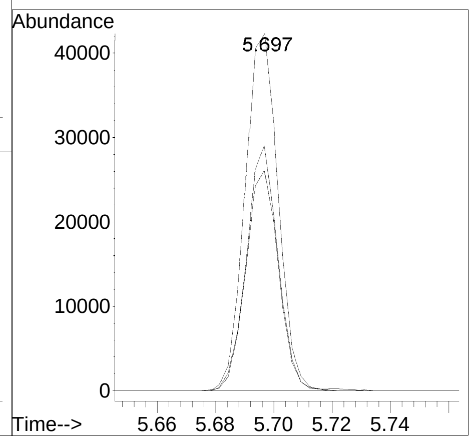
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 127 | 377.7 | 237.6 | 356.4# |
| 129 | 118.8 | 76.3 | 114.5# |

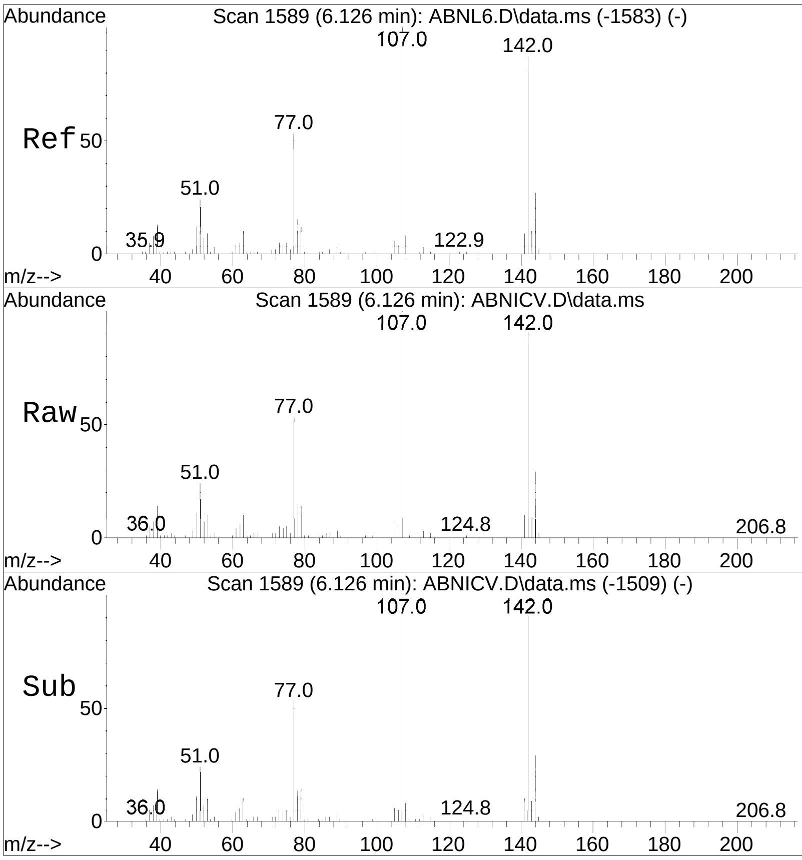



#41
Hexachlorobutadiene
Concen: 4.65 ug/ml
RT: 5.697 min Scan# 1451
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:225 Resp: 33536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 60.9 | 50.3 | 75.5 |
| 227 | 65.3 | 52.2 | 78.2 |

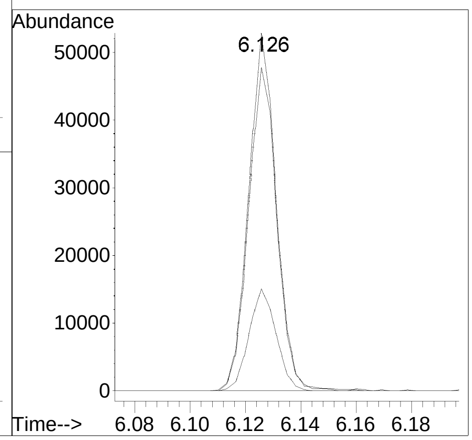


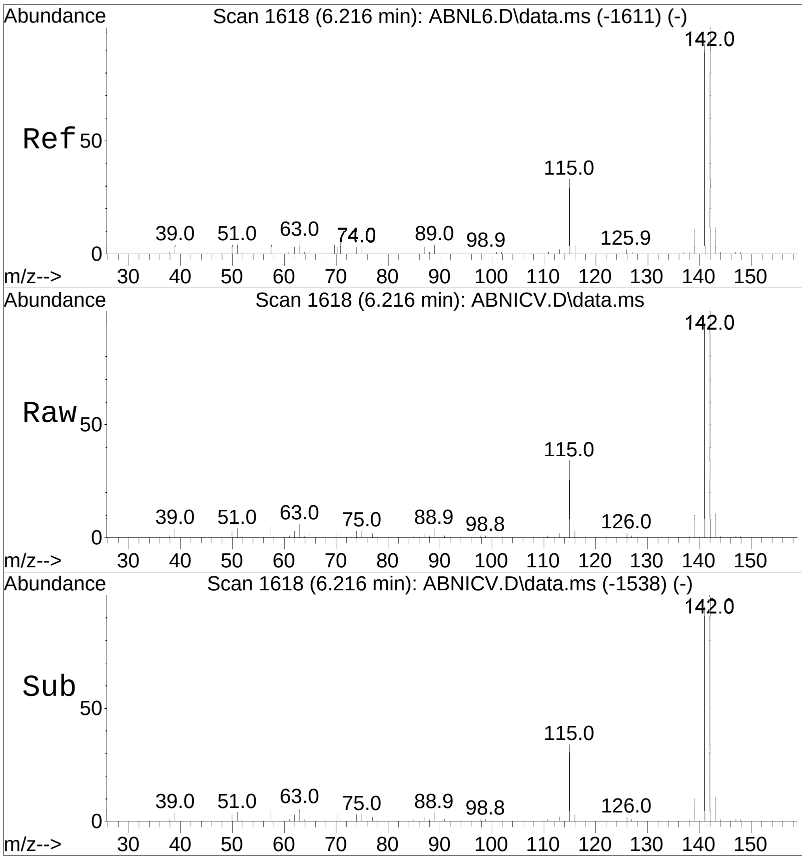



#42
p-Chloro-m-cresol
Concen: 4.51 ug/ml
RT: 6.126 min Scan# 1589
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:107 Resp: 36518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 28.1 | 20.9 | 31.3 |
| 142 | 92.2 | 66.1 | 99.1 |

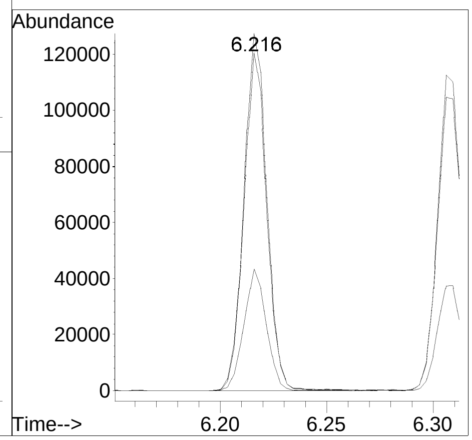


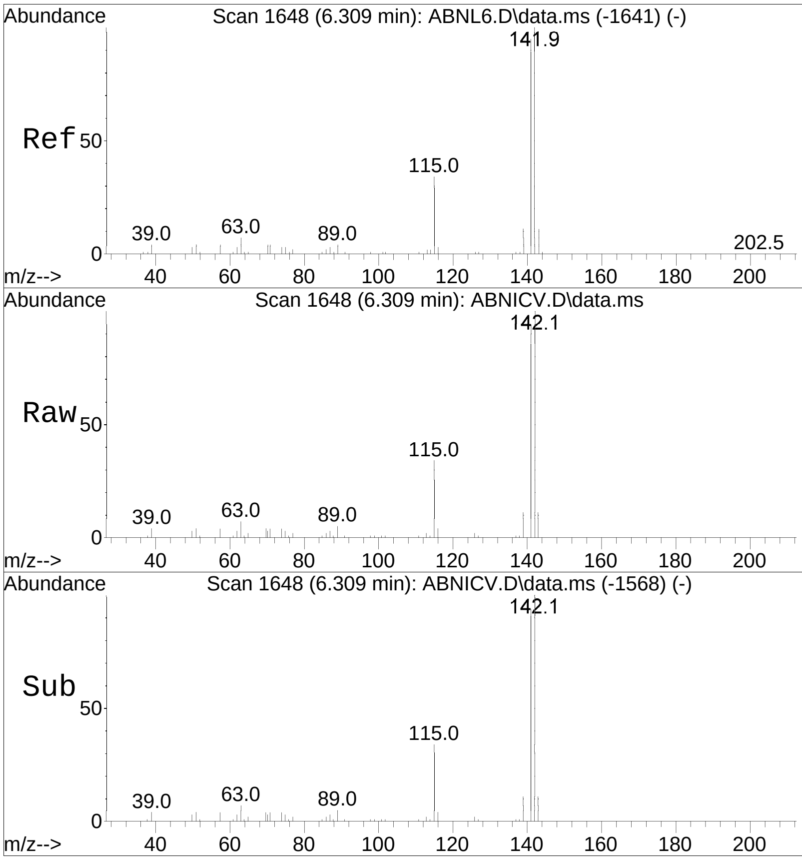



#43
2-Methylnaphthalene
Concen: 4.53 ug/ml
RT: 6.216 min Scan# 1618
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

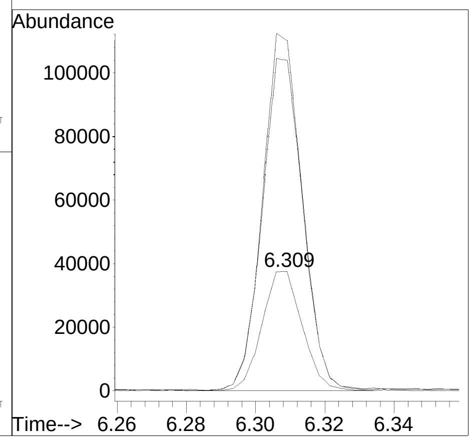
Tgt Ion:142 Resp: 96343

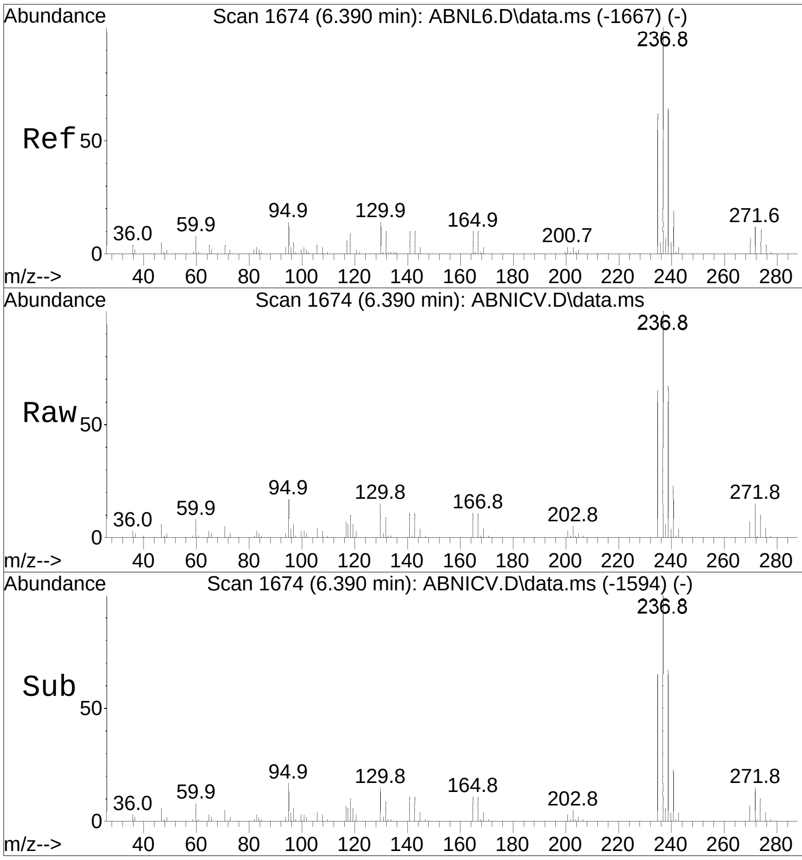
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 93.0 | 69.6 | 104.4 |
| 115 | 33.1 | 26.6 | 40.0 |






```
#44
1-Methylnaphthalene
Concen:    4.52 ug/ml
RT:   6.309 min  Scan# 1648
Delta R.T.  0.000 min
Lab File:   ABNICV.D
Acq:  5 Nov 2024  11:59 pm

Tgt Ion:115 Resp:   30554
Ion  Ratio  Lower  Upper
115  100
141  278.0  207.8  311.6
142  291.9  226.8  340.2
```

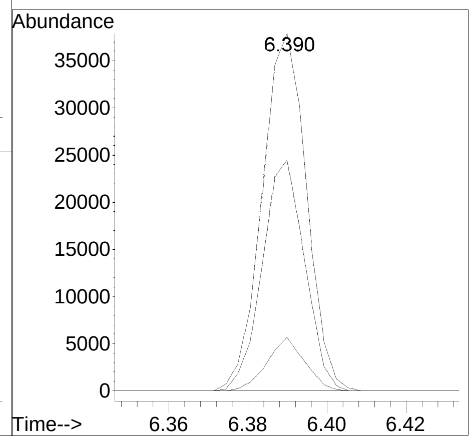


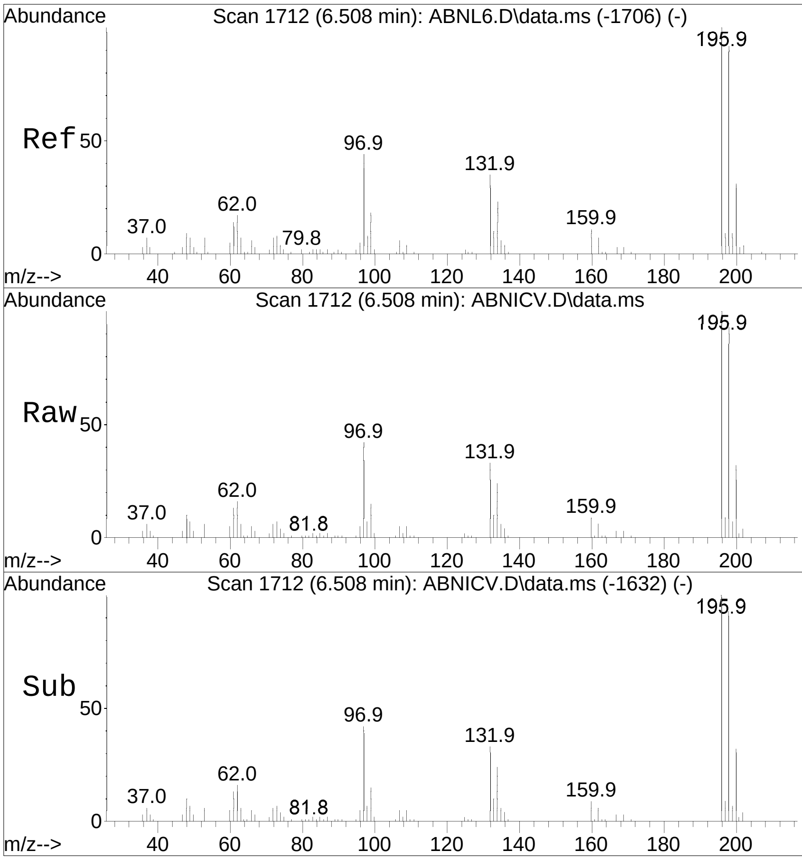



#45
Hexachlorocyclopentadiene
Concen: 3.87 ug/ml
RT: 6.390 min Scan# 1674
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:237 Resp: 29425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 61.8 | 49.7 | 74.5 |
| 272 | 12.8 | 9.8 | 14.6 |

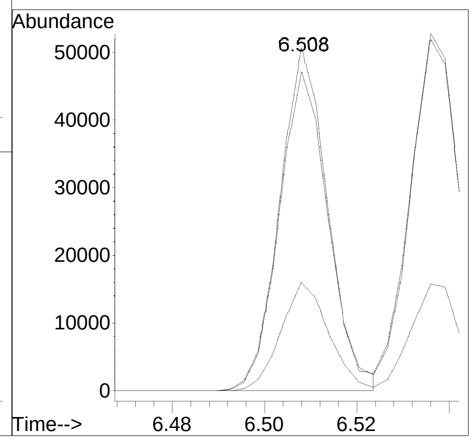


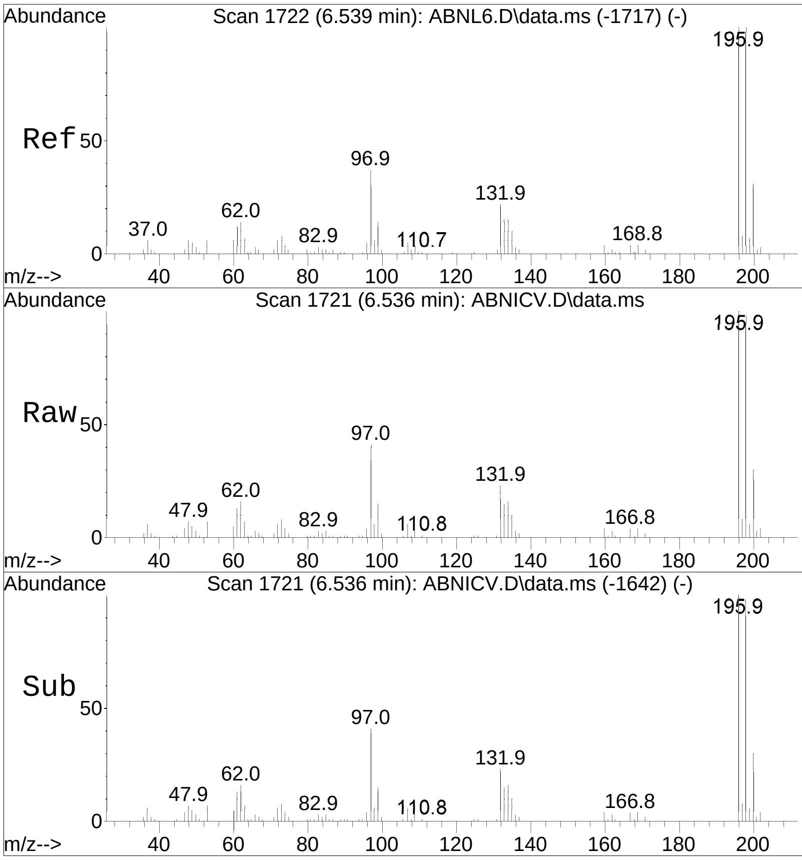



#46
2,4,6-Trichlorophenol
Concen: 4.58 ug/ml
RT: 6.508 min Scan# 1712
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:196 Resp: 36634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 94.9 | 77.5 | 116.3 |
| 200 | 31.6 | 23.8 | 35.6 |

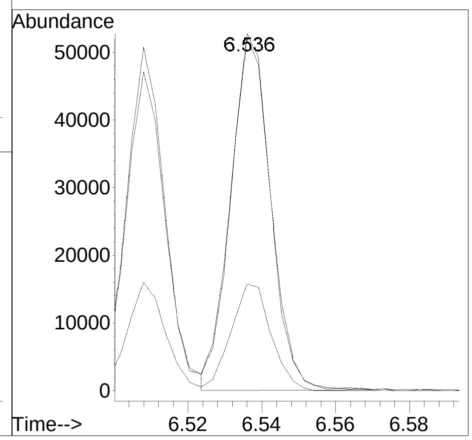


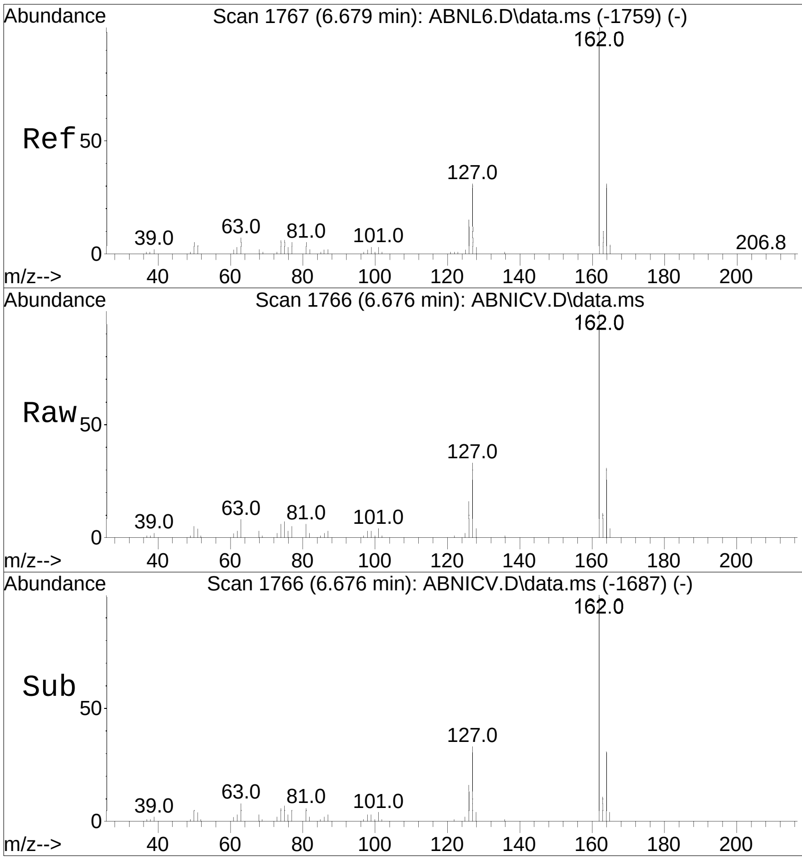



#47
2,4,5-Trichlorophenol
Concen: 4.43 ug/ml
RT: 6.536 min Scan# 1721
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:196 Resp: 39640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 200 | 30.1 | 25.4 | 38.0 |
| 198 | 98.2 | 78.0 | 117.0 |

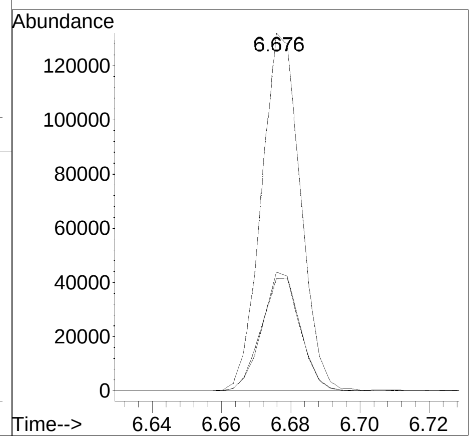


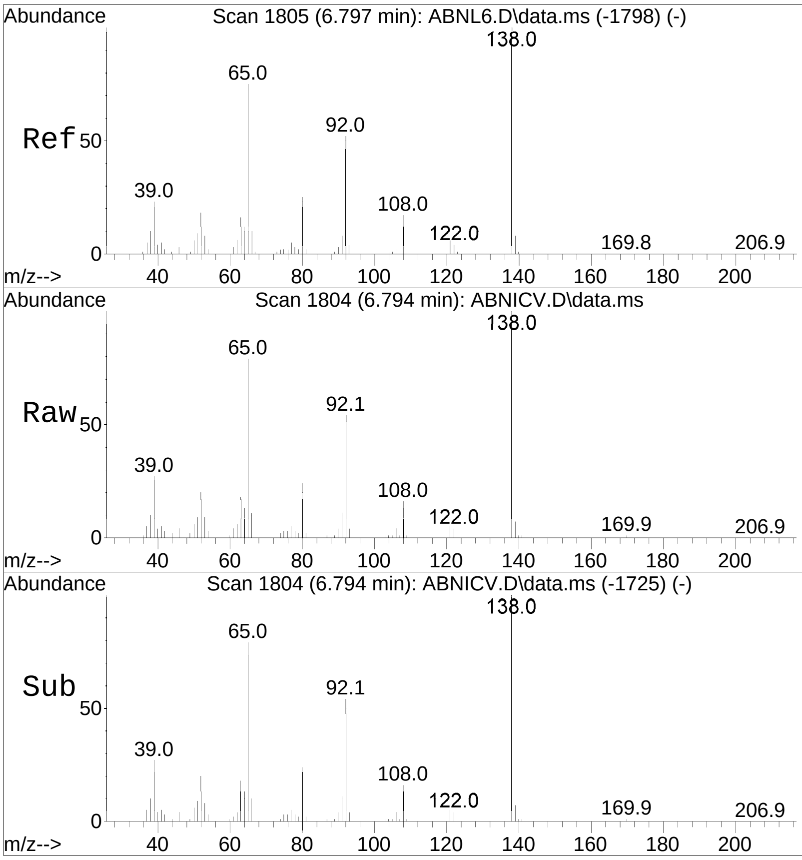



#49
2-Chloronaphthalene
Concen: 4.33 ug/ml
RT: 6.676 min Scan# 1766
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:162 Resp: 103138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 32.6 | 32.2 | 48.4 |
| 164 | 31.6 | 25.7 | 38.5 |

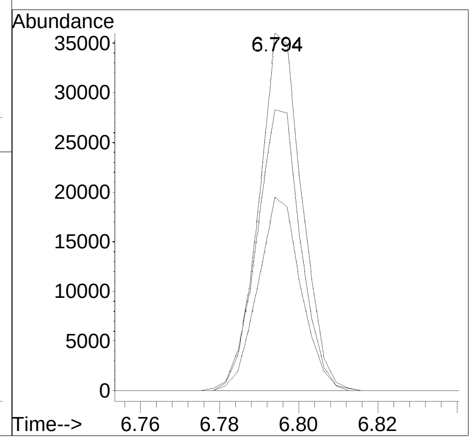


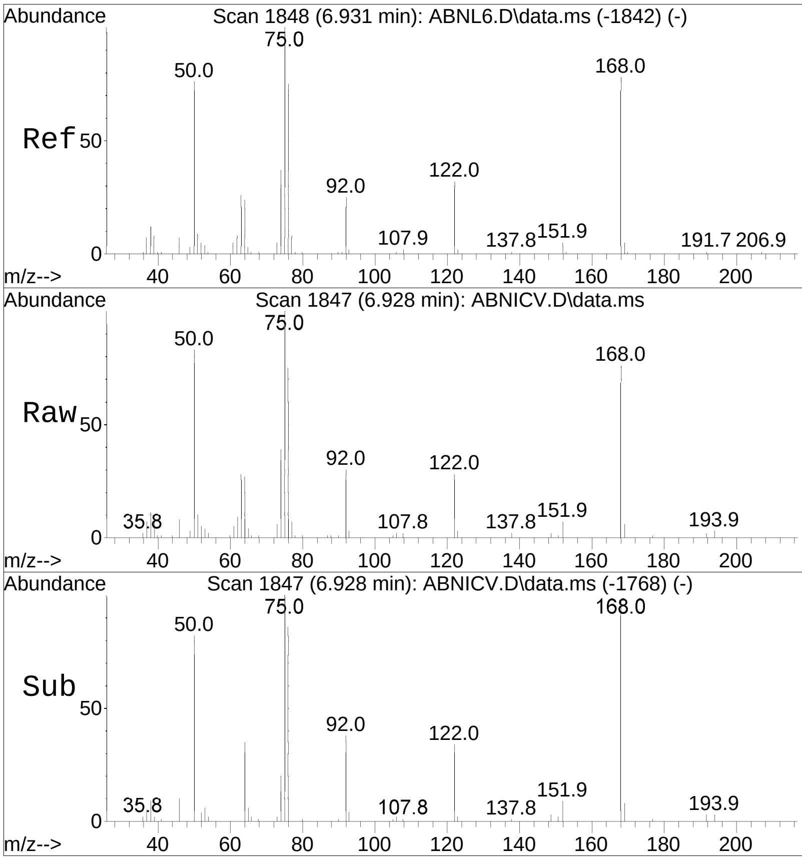



#50
2-Nitroaniline
Concen:    4.45 ug/ml
RT:   6.794 min  Scan# 1804
Delta R.T.  -0.003 min
Lab File:   ABNICV.D
Acq:  5 Nov 2024  11:59 pm

Tgt Ion:138 Resp:   27096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 54.3 | 53.5 | 80.3 |
| 65 | 80.7 | 86.3 | 129.5# |

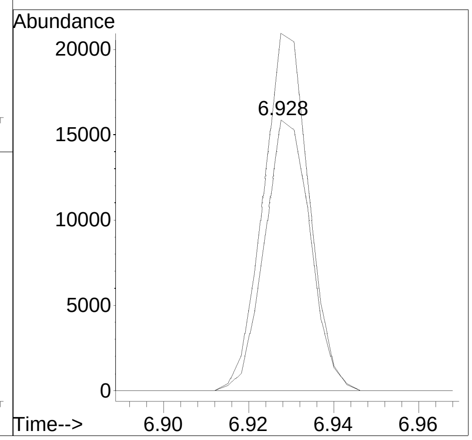


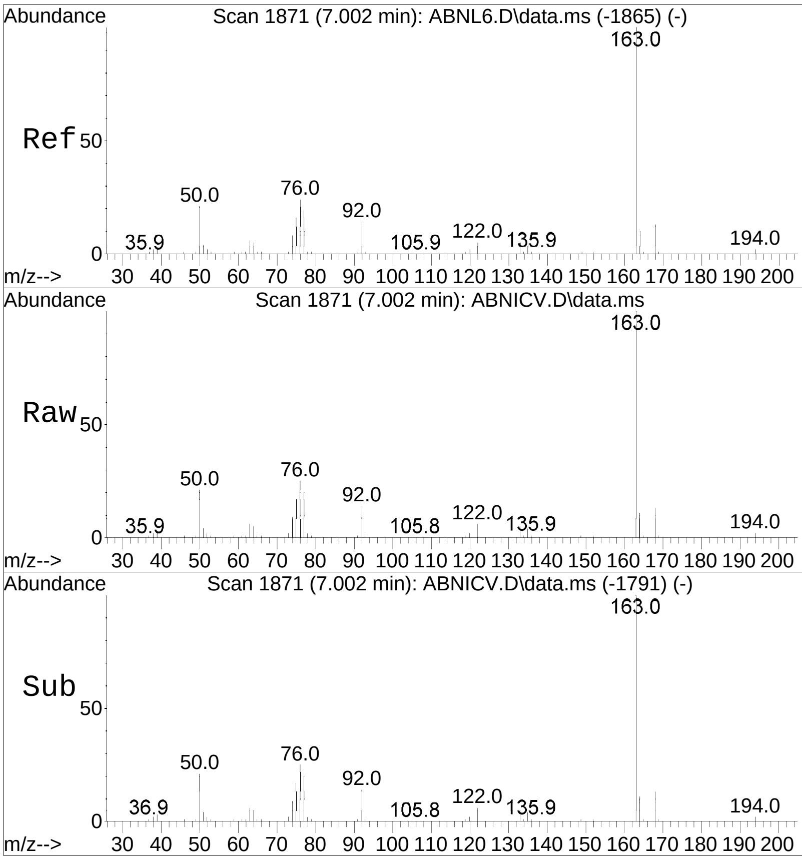



#51
1,4-Dinitrobenzene
Concen: 4.50 ug/ml
RT: 6.928 min Scan# 1847
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:168 Resp: 11911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 75 | 131.0 | 121.8 | 182.8 |

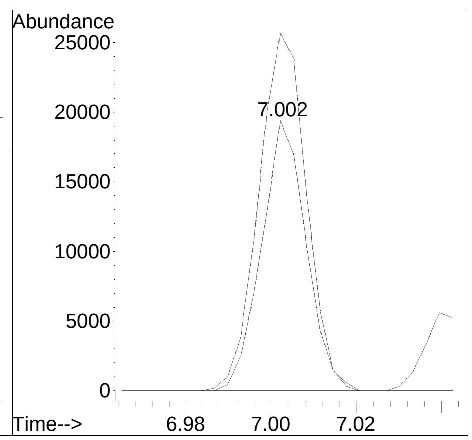


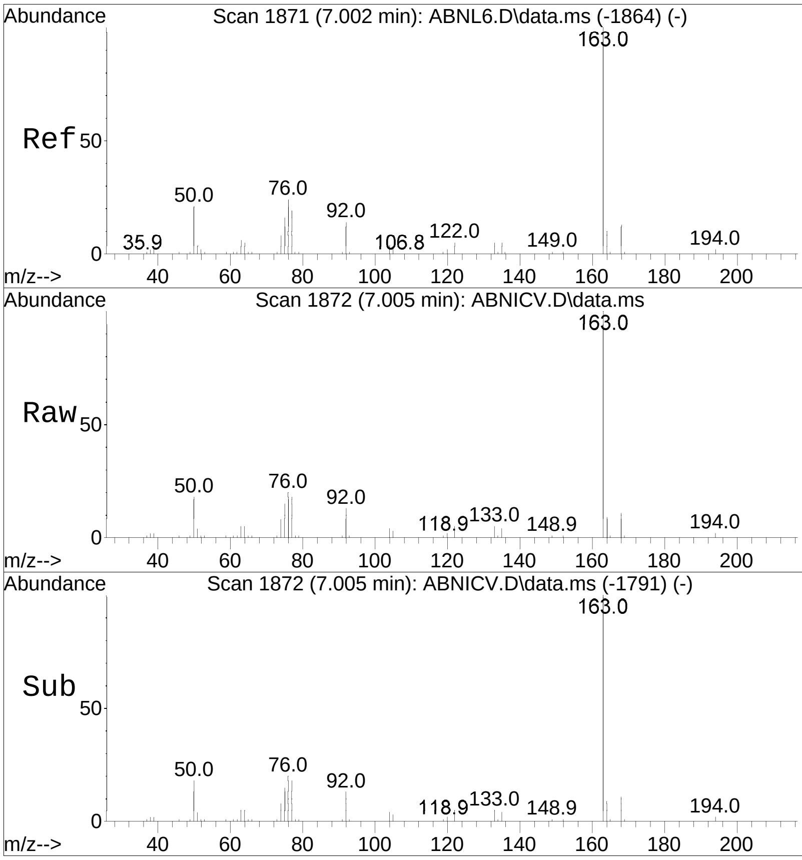



#52
1,3-Dinitrobenzene
Concen: 4.43 ug/ml
RT: 7.002 min Scan# 1871
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:168 Resp: 14057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 75 | 141.5 | 22.7 | 34.1# |

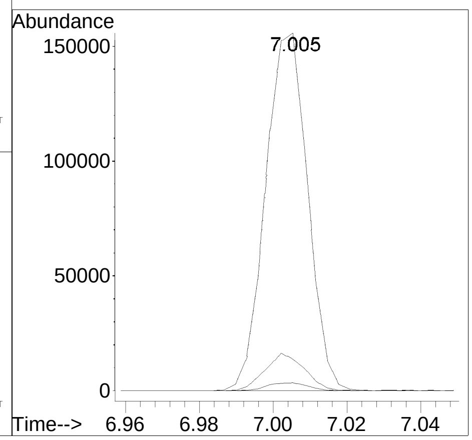


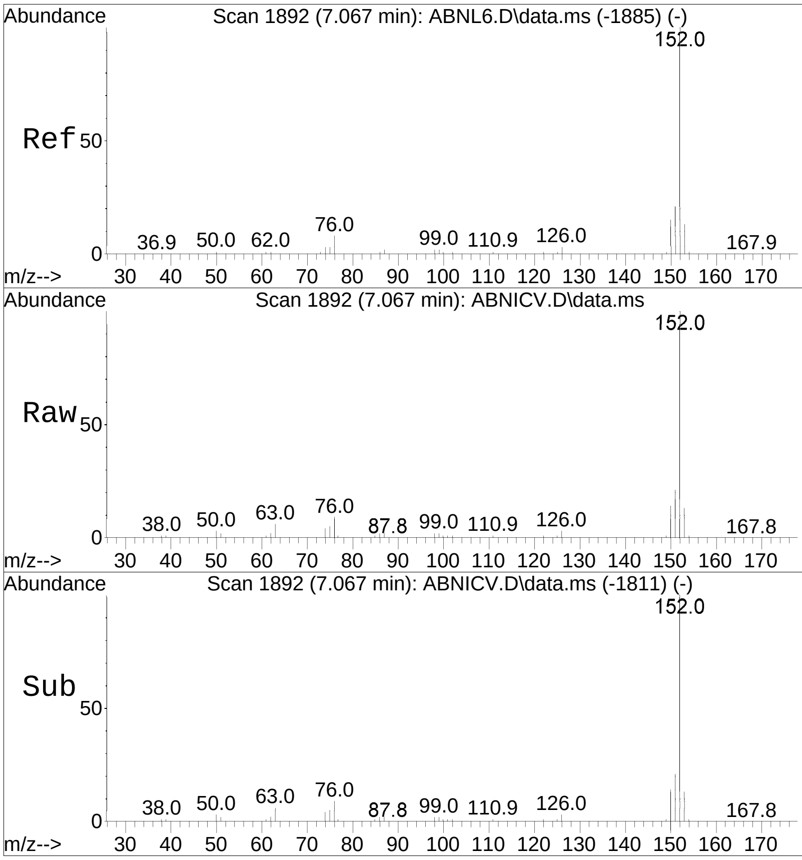



#53
Dimethyl phthalate
Concen: 4.44 ug/ml
RT: 7.005 min Scan# 1872
Delta R.T. 0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:163 Resp: 122829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 2.3 | 3.5 | 5.3# |
| 164 | 9.9 | 7.9 | 11.9 |

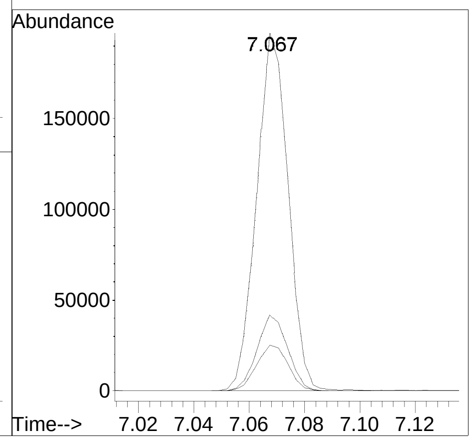


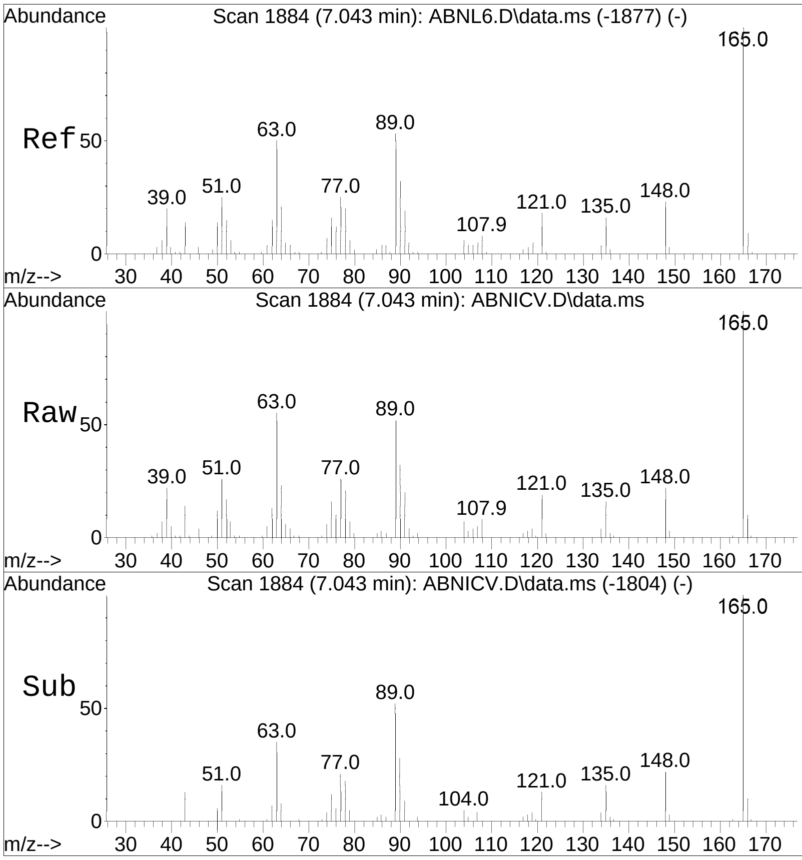



#54
Acenaphthylene
Concen: 4.44 ug/ml
RT: 7.067 min Scan# 1892
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:152 Resp: 155180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.6 | 15.8 | 23.6 |
| 153 | 12.8 | 10.5 | 15.7 |

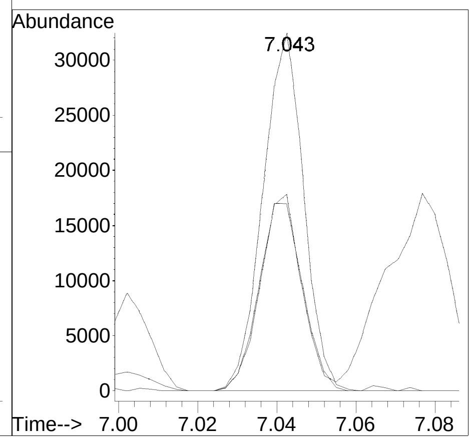


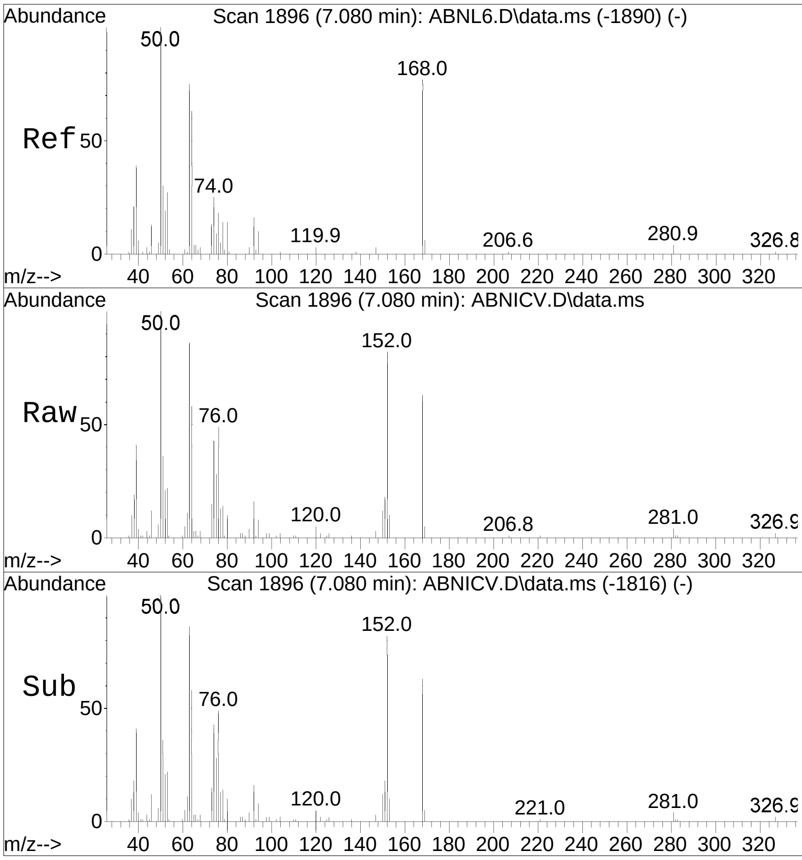



#55
2,6-Dinitrotoluene
Concen: 4.50 ug/ml
RT: 7.043 min Scan# 1884
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:165 Resp: 23242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 55.9 | 54.2 | 81.2 |
| 63 | 56.7 | 64.2 | 96.2# |

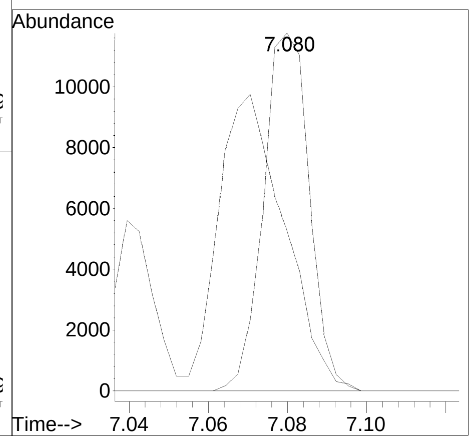


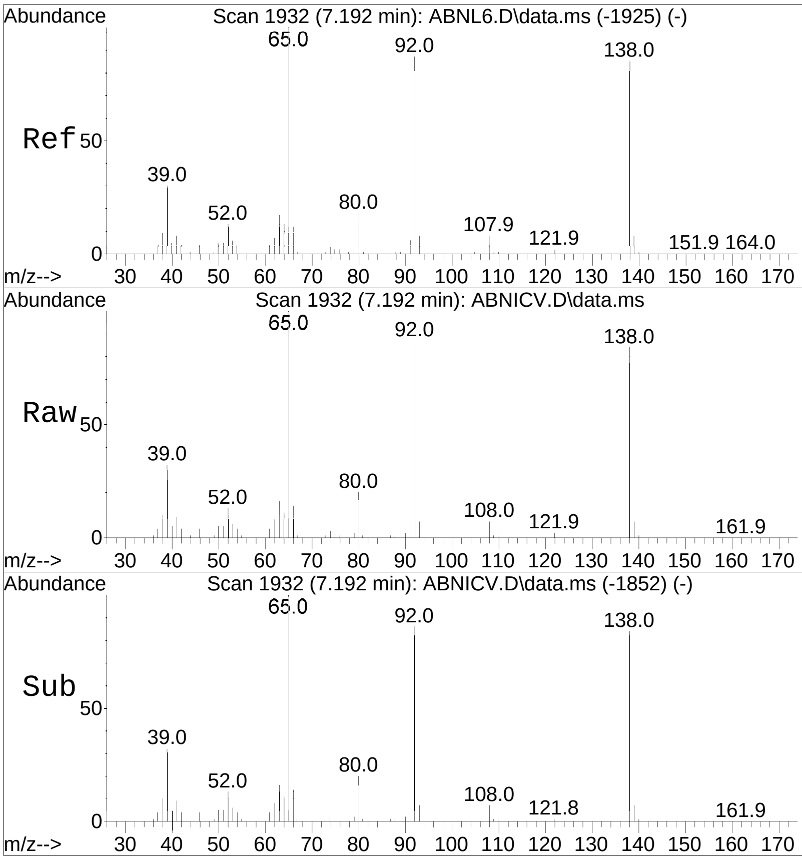



#56
1,2-Dinitrobenzene
Concen: 5.13 ug/ml
RT: 7.080 min Scan# 1896
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:168 Resp: 9499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 75 | 118.0 | 30.9 | 46.3# |

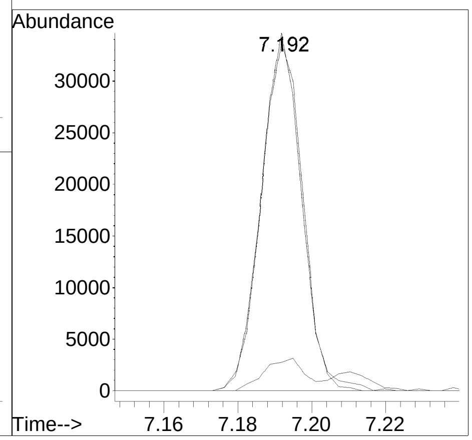


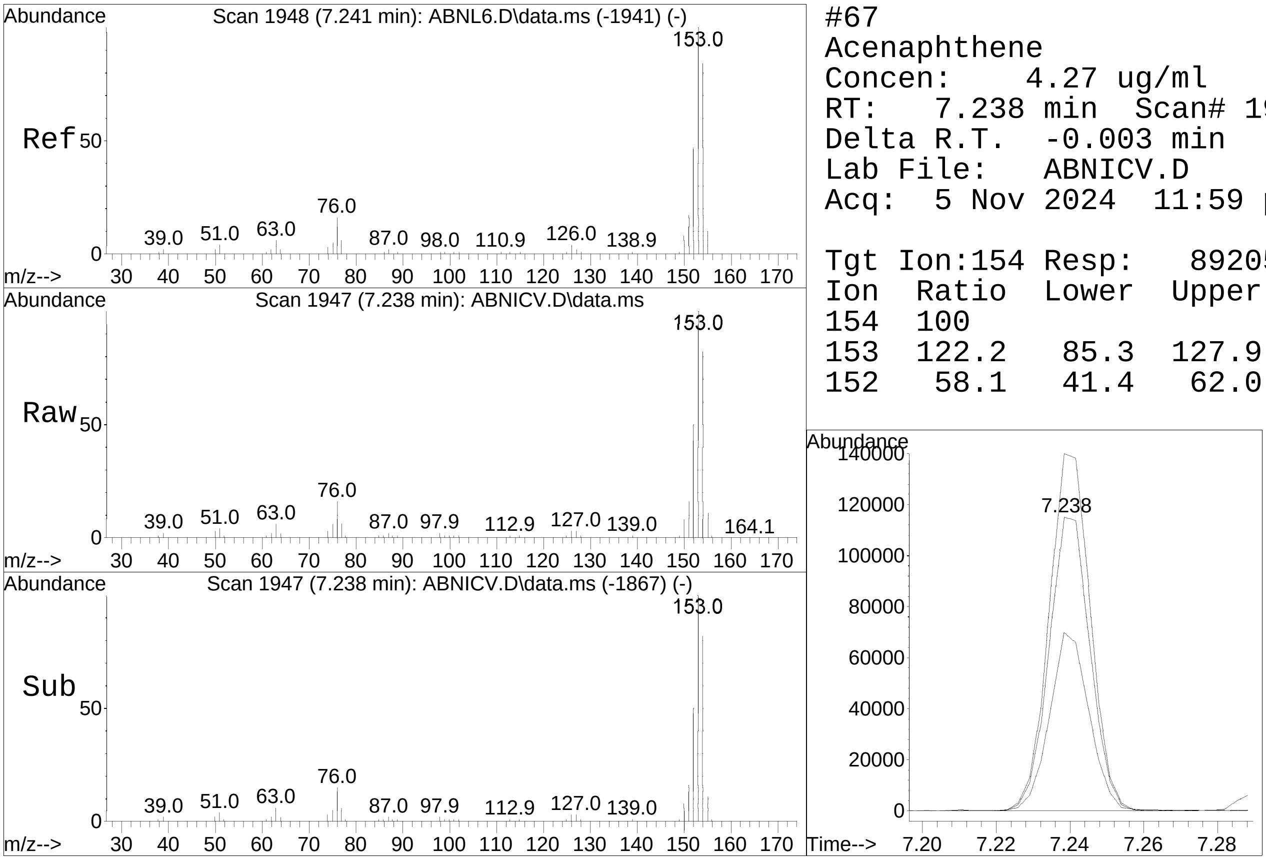



#66
3-Nitroaniline
Concen: 4.70 ug/ml
RT: 7.192 min Scan# 1932
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:138 Resp: 26098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 100.6 | 93.4 | 140.2 |
| 108 | 9.1 | 9.5 | 14.3# |

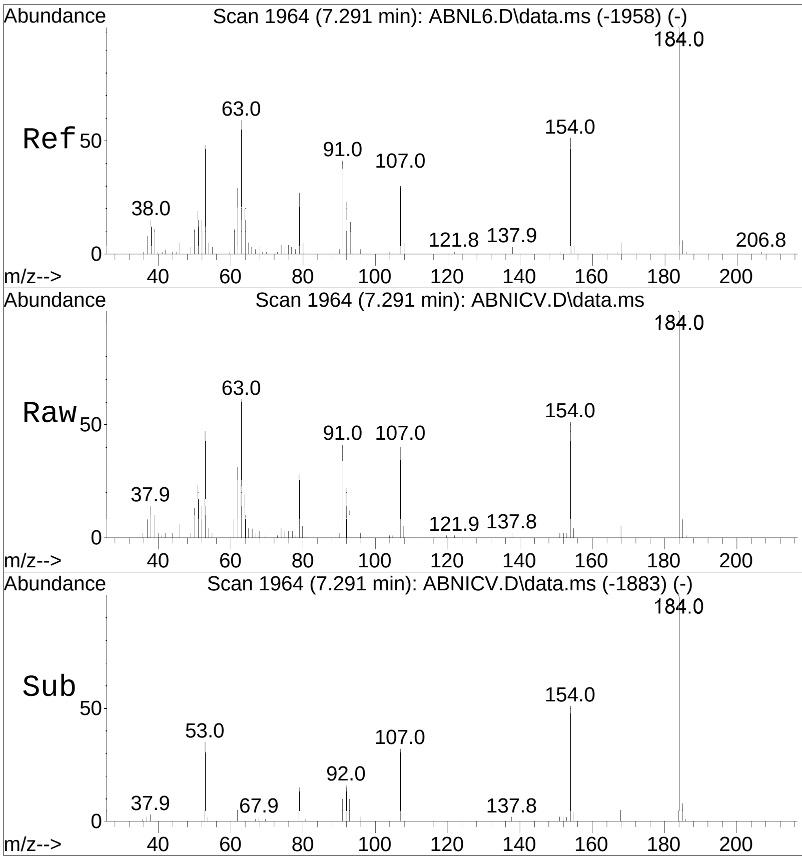





#67
Acenaphthene
Concen: 4.27 ug/ml
RT: 7.238 min Scan# 1947
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:154 Resp: 89205

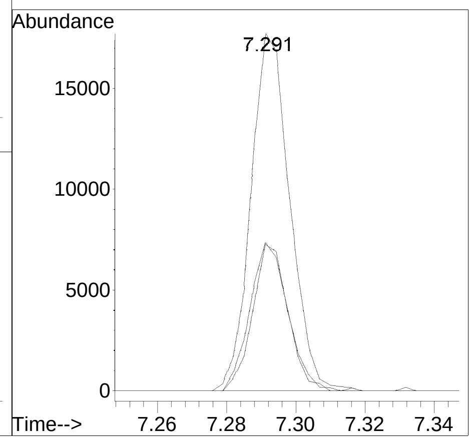
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 122.2 | 85.3 | 127.9 |
| 152 | 58.1 | 41.4 | 62.0 |

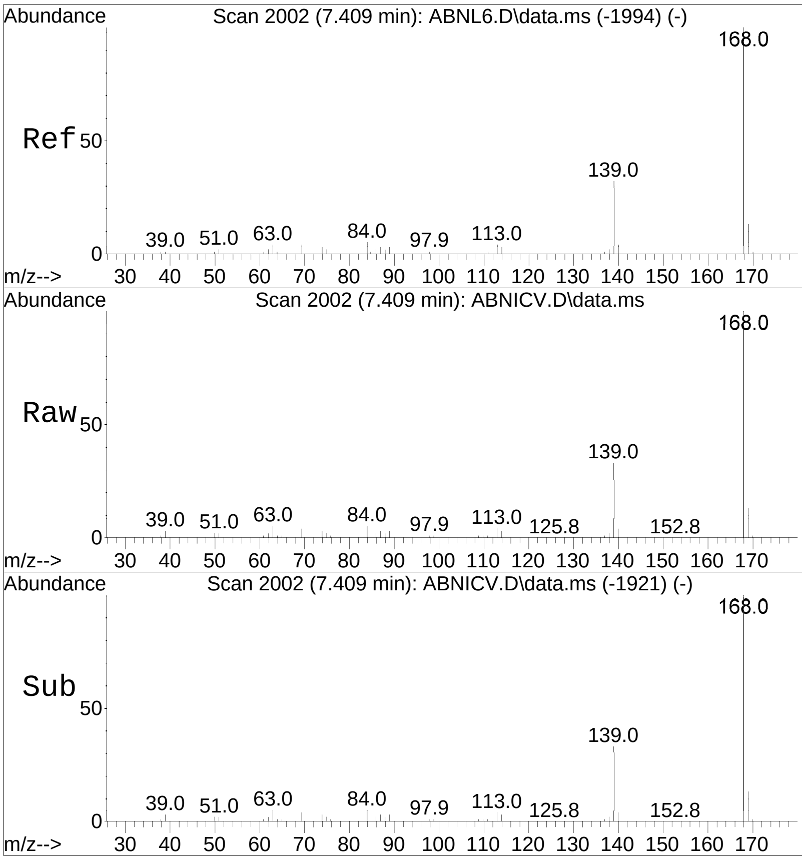



#68
2,4-Dinitrophenol
Concen: 4.13 ug/ml
RT: 7.291 min Scan# 1964
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:184 Resp: 13757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 107 | 38.0 | 37.7 | 56.5 |
| 91 | 39.9 | 46.3 | 69.5# |

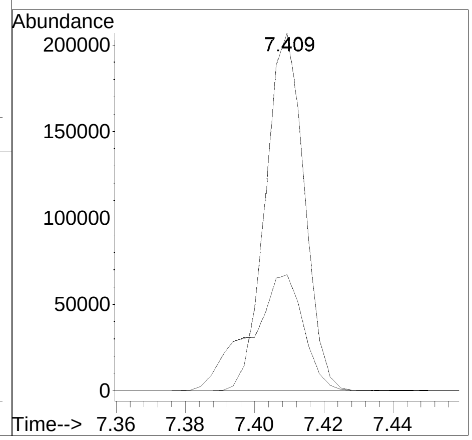


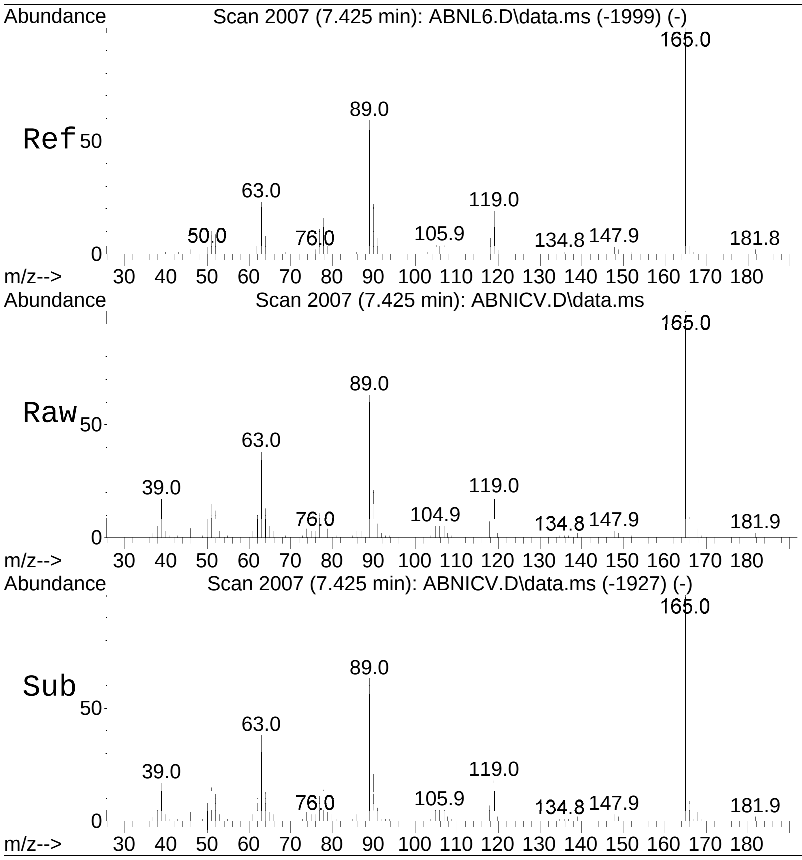



#69
Dibenzofuran
Concen: 4.45 ug/ml
RT: 7.409 min Scan# 2002
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:168 Resp: 160445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 45.7 | 31.4 | 47.2 |

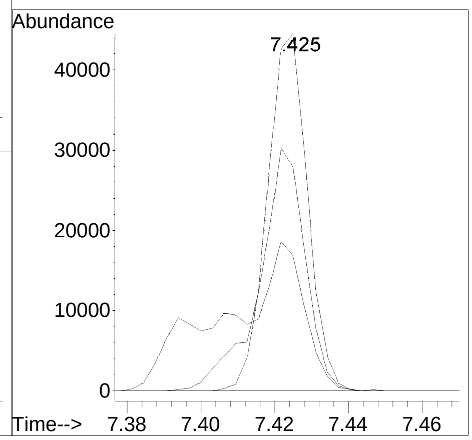


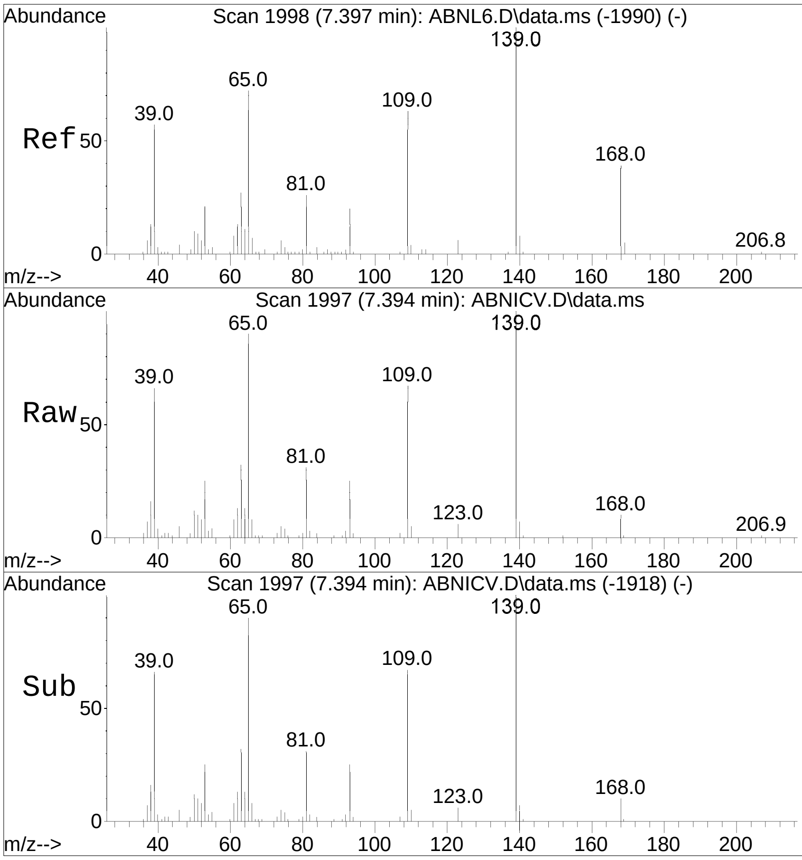



#70
2,4-Dinitrotoluene
Concen: 4.84 ug/ml
RT: 7.425 min Scan# 2007
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:165 Resp: 33658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 77.6 | 72.0 | 108.0 |
| 63 | 41.9 | 52.7 | 79.1# |

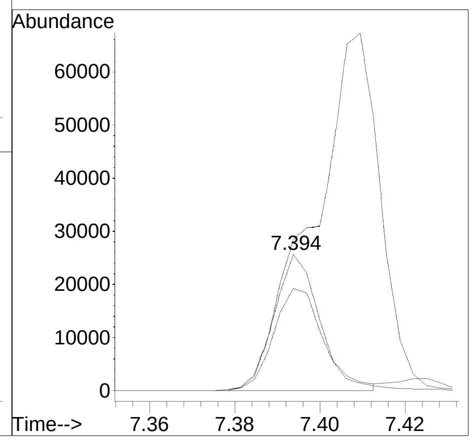


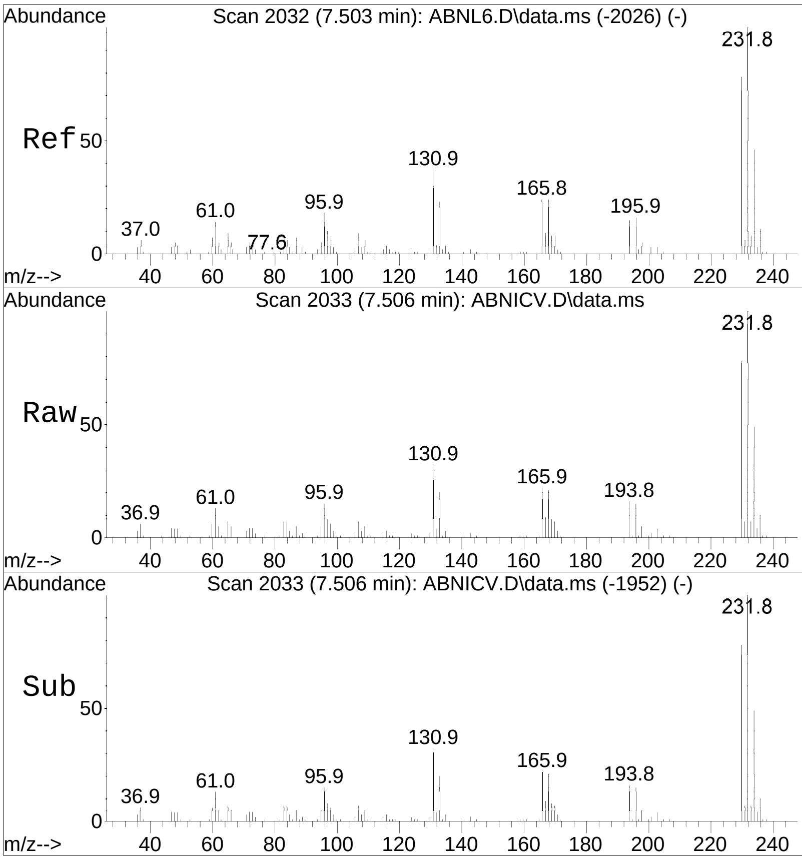



#71
4-Nitrophenol
Concen: 4.67 ug/ml
RT: 7.394 min Scan# 1997
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 65 Resp: 19325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 109 | 81.5 | 47.4 | 71.2# |
| 139 | 0.0 | 76.6 | 115.0# |

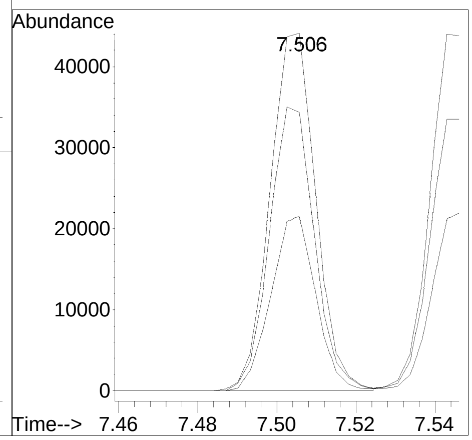


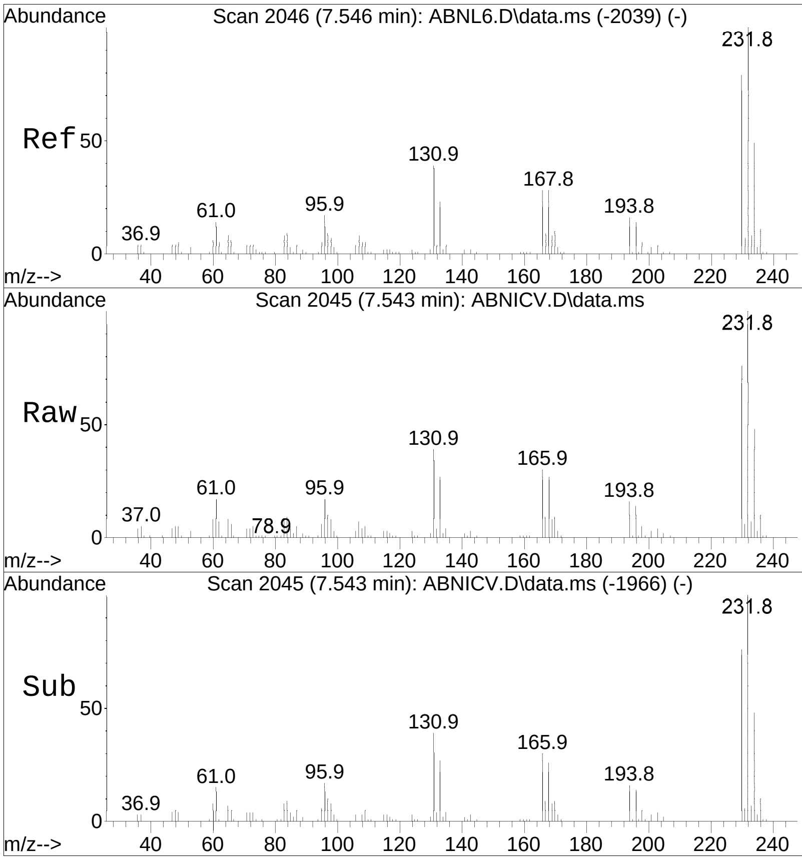



#72
2,3,5,6-Tetrachlorophenol
Concen: 4.52 ug/ml
RT: 7.506 min Scan# 2033
Delta R.T. 0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:232 Resp: 35437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 230 | 78.3 | 64.2 | 96.4 |
| 234 | 48.2 | 38.1 | 57.1 |

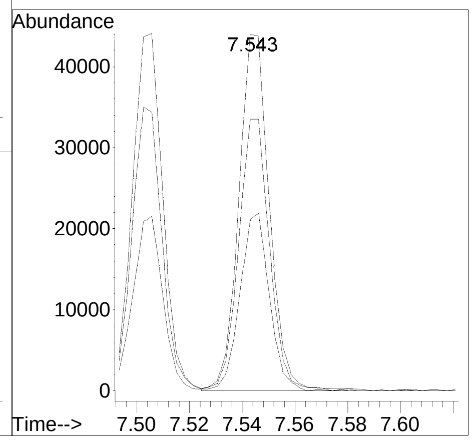


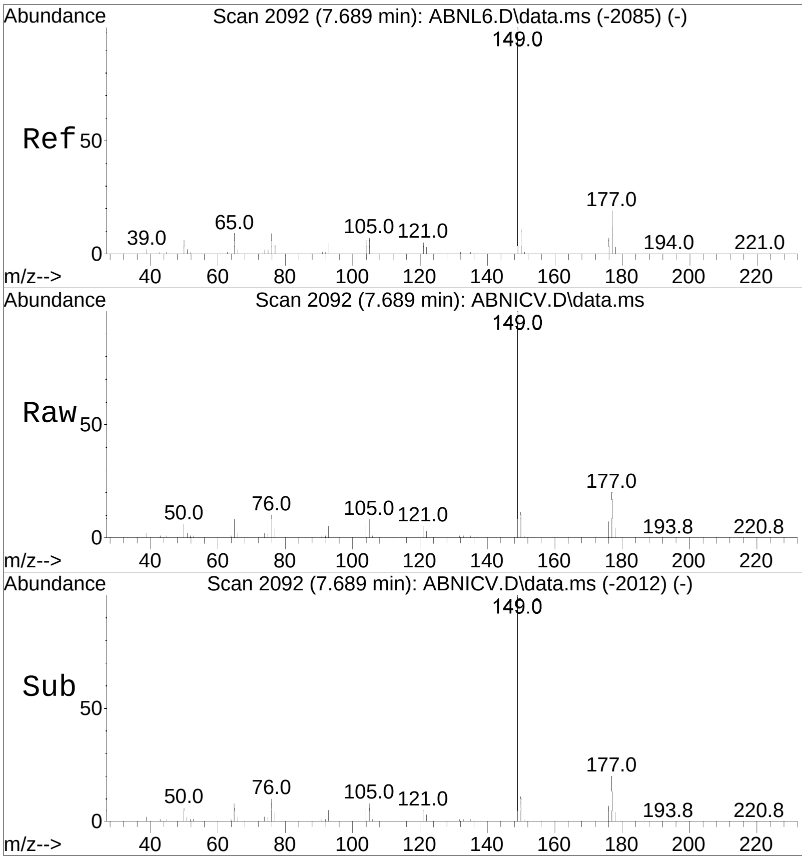



#73
2,3,4,6-Tetrachlorophenol
Concen: 4.63 ug/ml
RT: 7.543 min Scan# 2045
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:232 Resp: 35578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 230 | 76.6 | 61.8 | 92.8 |
| 234 | 47.2 | 36.2 | 54.2 |

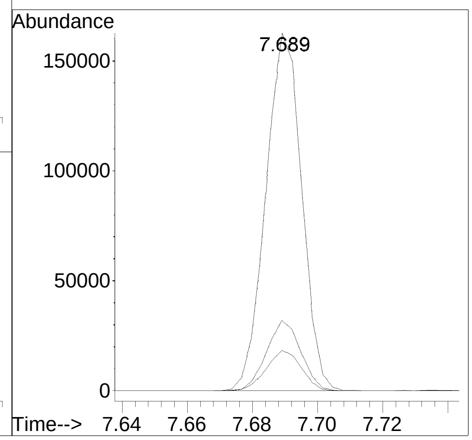


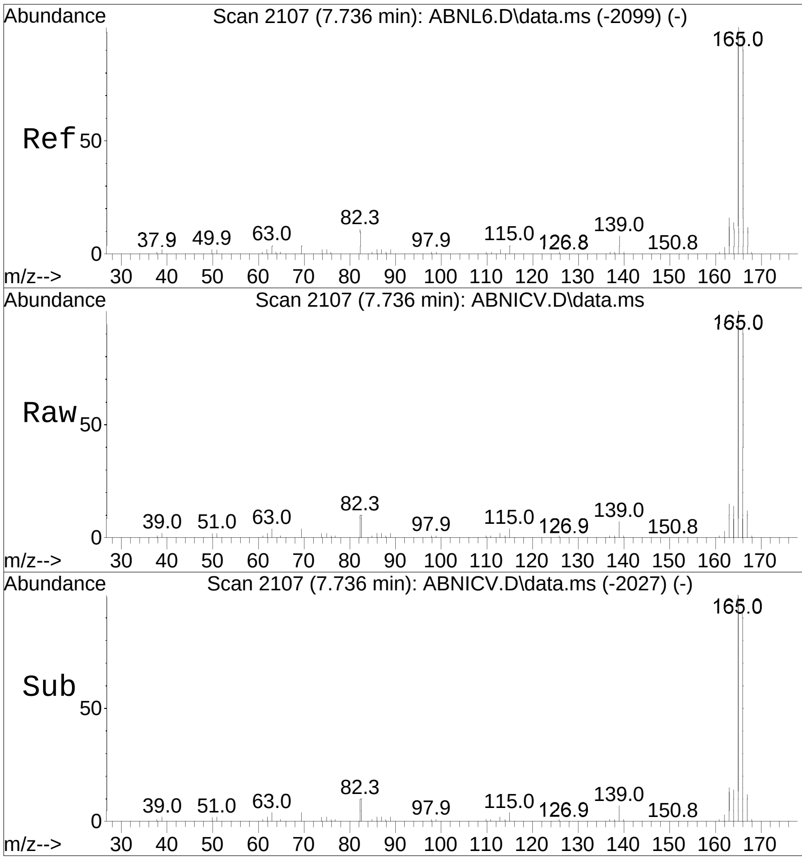



#74
Diethyl phthalate
Concen: 4.38 ug/ml
RT: 7.689 min Scan# 2092
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:149 Resp: 123901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 18.9 | 16.1 | 24.1 |
| 150 | 11.2 | 9.4 | 14.2 |

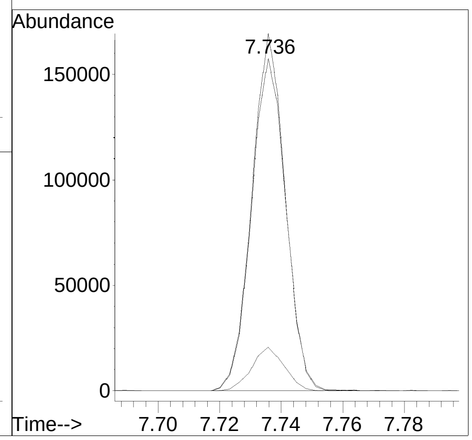


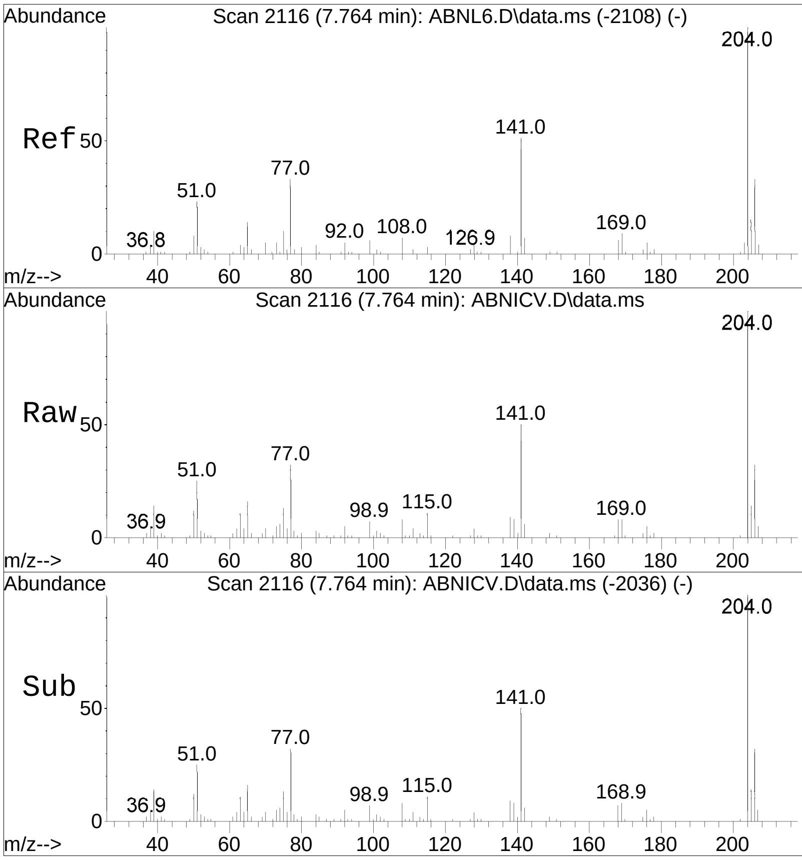



#75
Fluorene
Concen: 4.42 ug/ml
RT: 7.736 min Scan# 2107
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:166 Resp: 122050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 104.2 | 76.2 | 114.2 |
| 167 | 12.5 | 10.6 | 15.8 |

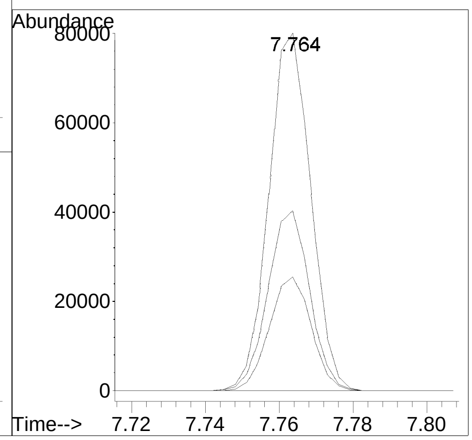


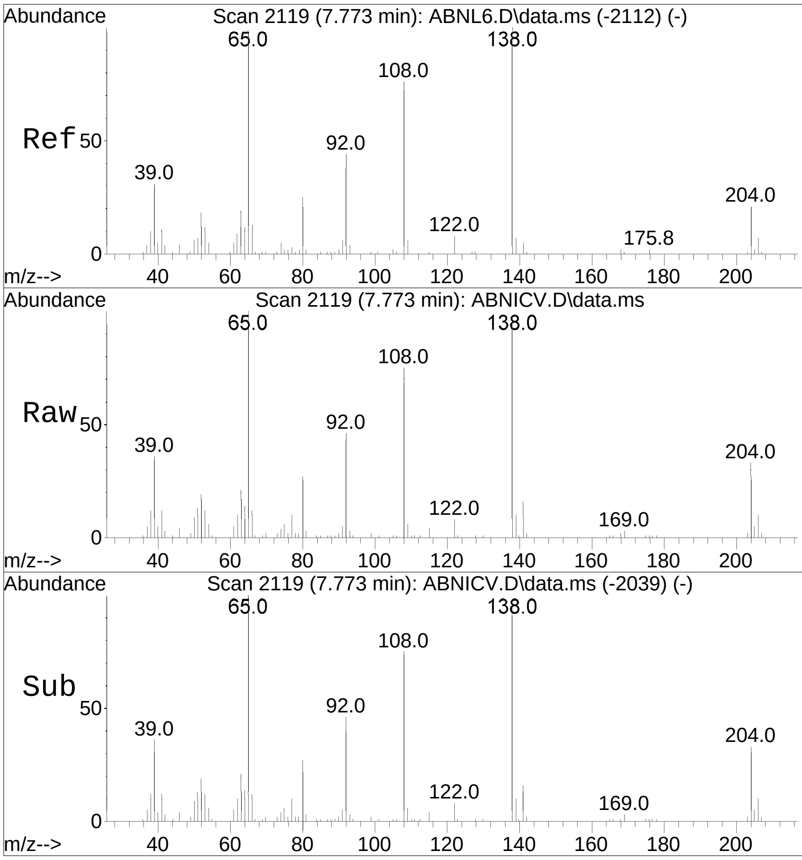



#76
4-Chlorophenyl phenyl ether
Concen: 4.43 ug/ml
RT: 7.764 min Scan# 2116
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:204 Resp: 63042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 31.9 | 25.8 | 38.6 |
| 141 | 50.4 | 53.6 | 80.4# |

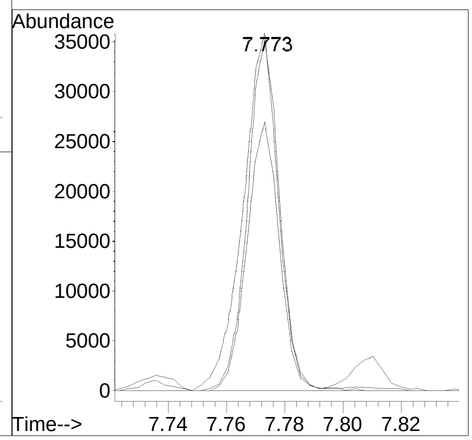


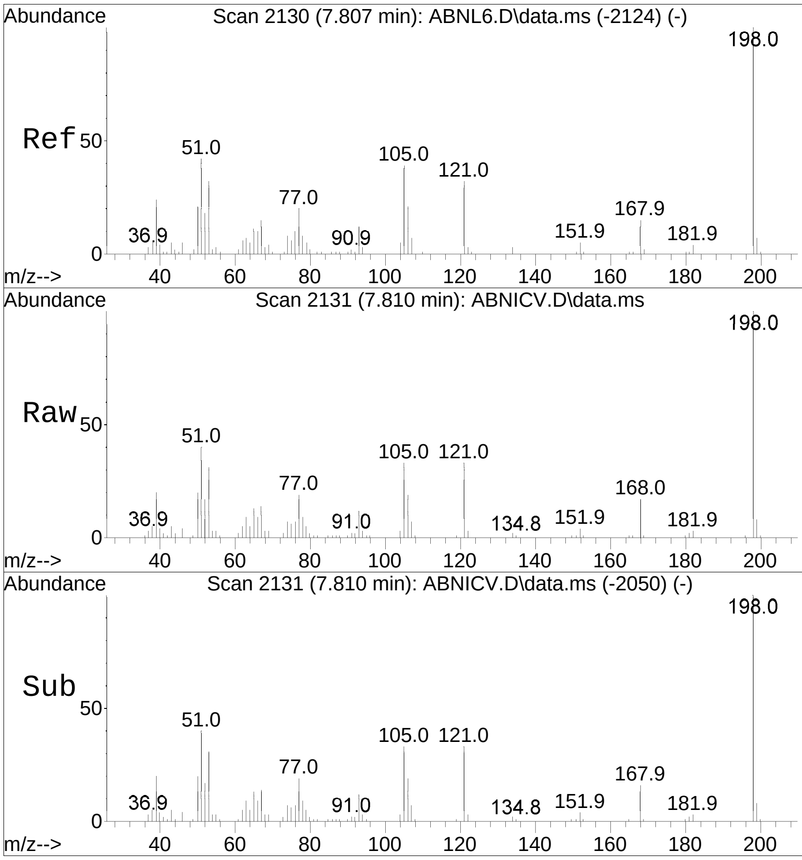



#77
4-Nitroaniline
Concen:    5.02 ug/ml
RT:   7.773 min  Scan# 2119
Delta R.T.  -0.000 min
Lab File:   ABNICV.D
Acq:  5 Nov 2024  11:59 pm

Tgt Ion:138 Resp:   26907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 77.2 | 52.1 | 78.1 |
| 65 | 111.2 | 115.0 | 172.6# |

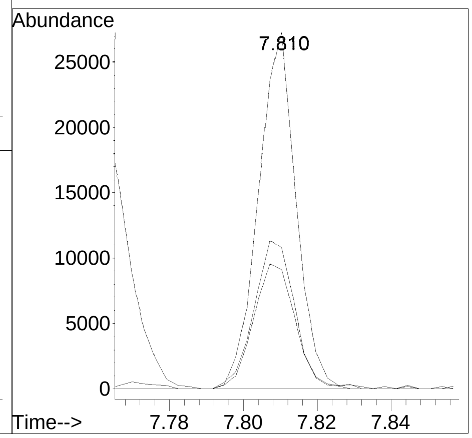


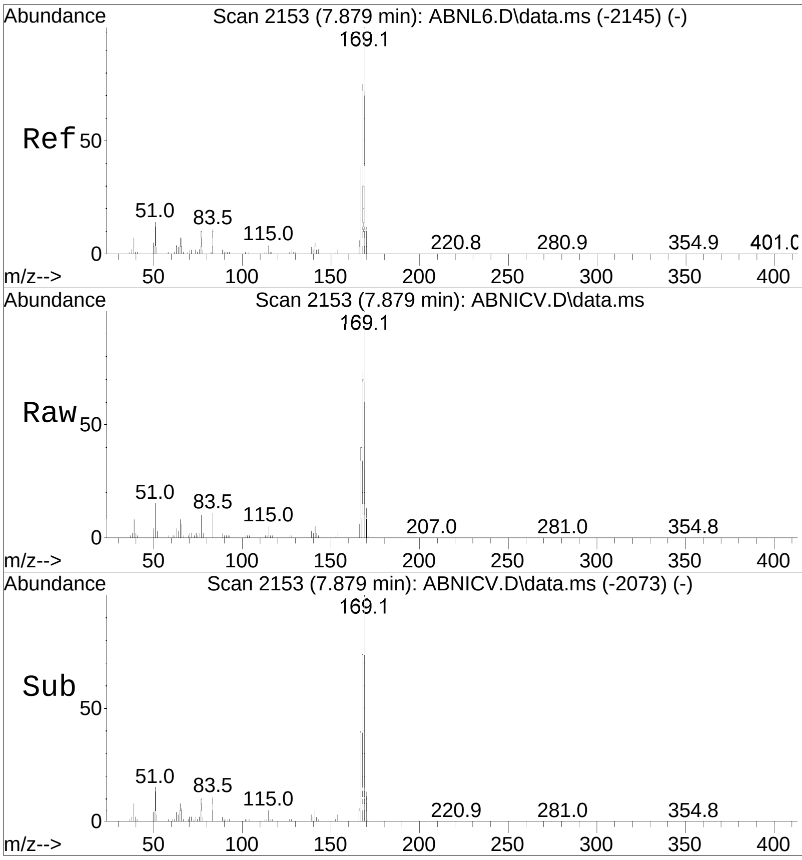



#78
4,6-Dinitro-o-cresol
Concen: 4.61 ug/ml
RT: 7.810 min Scan# 2131
Delta R.T. 0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:198 Resp: 19382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 45.2 | 76.0 | 114.0# |
| 105 | 38.6 | 45.6 | 68.4# |

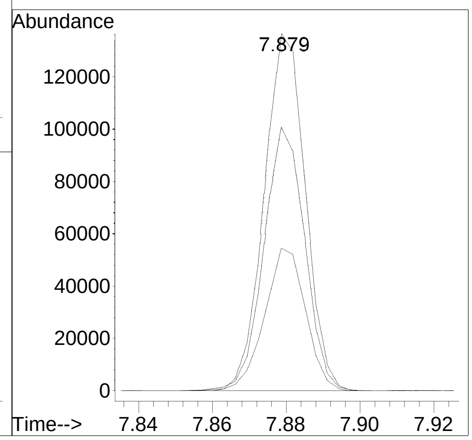


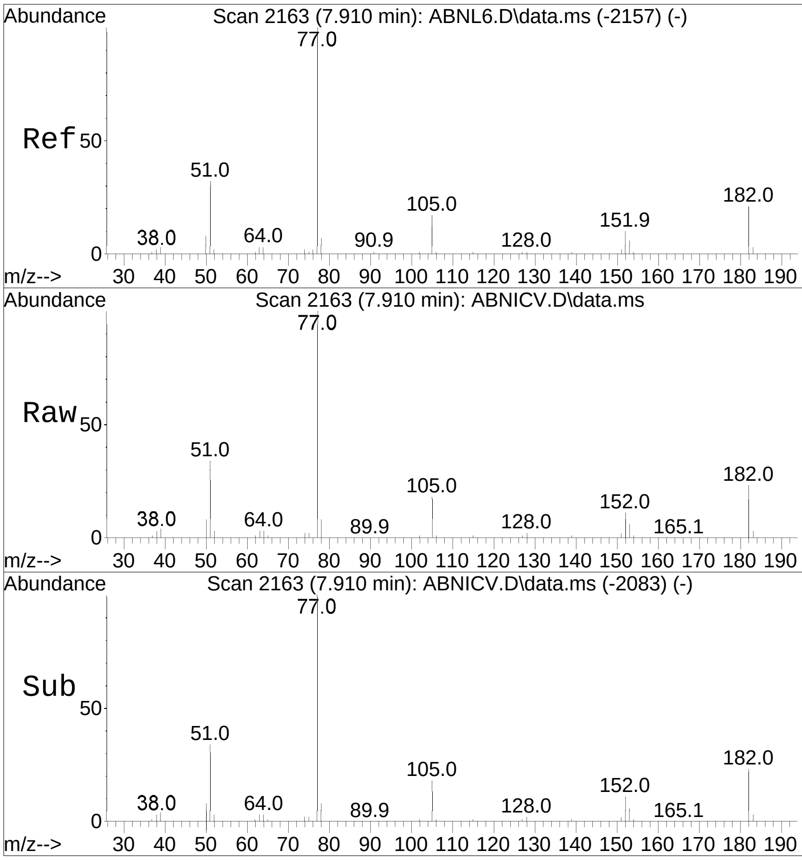



#79
NDPA/DPA
Concen: 4.40 ug/ml
RT: 7.879 min Scan# 2153
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:169 Resp: 105614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 73.5 | 54.0 | 81.0 |
| 167 | 39.9 | 28.6 | 42.8 |

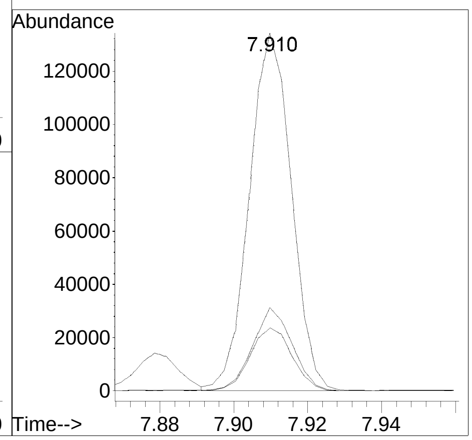


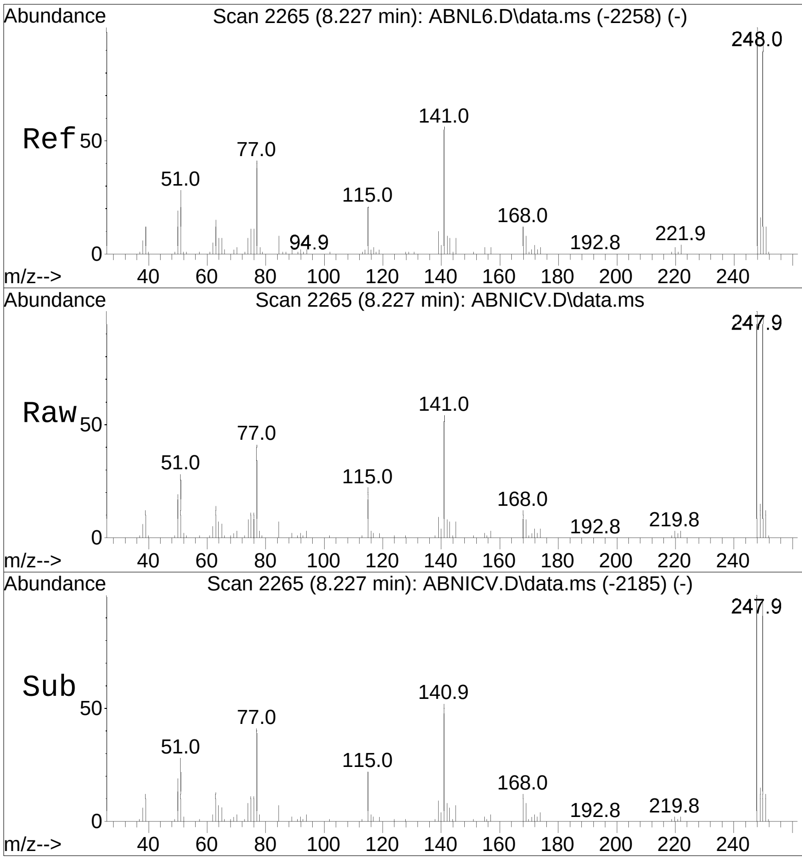



#80
Azobenzene
Concen: 4.60 ug/ml
RT: 7.910 min Scan# 2163
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 77 Resp: 105841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 21.9 | 17.4 | 26.2 |
| 105 | 17.7 | 15.4 | 23.2 |

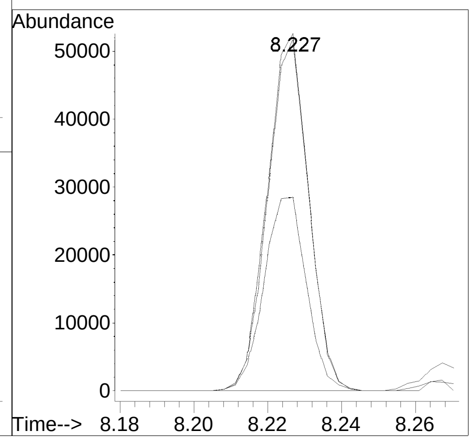


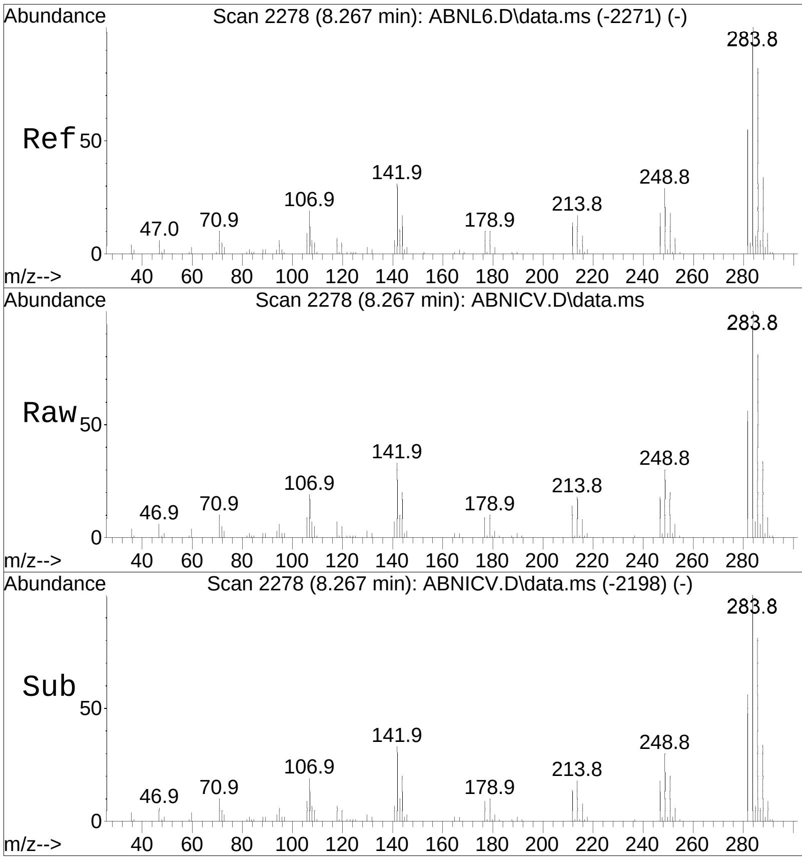



#82
4-Bromophenyl phenyl ether
Concen: 4.36 ug/ml
RT: 8.227 min Scan# 2265
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:248 Resp: 40811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 141 | 55.8 | 76.6 | 114.8# |
| 250 | 97.2 | 77.3 | 115.9 |

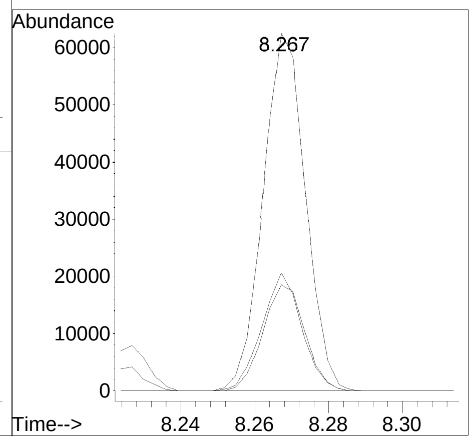


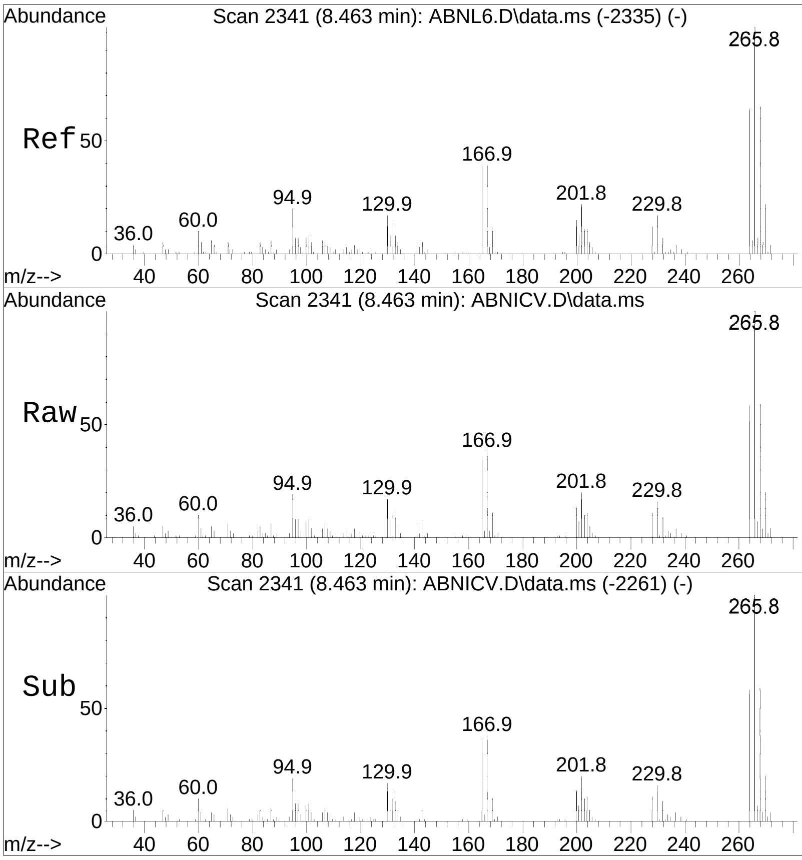



#83
Hexachlorobenzene
Concen: 4.21 ug/ml
RT: 8.267 min Scan# 2278
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:284 Resp: 49668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 31.2 | 41.9 | 62.9# |
| 249 | 29.5 | 24.1 | 36.1 |

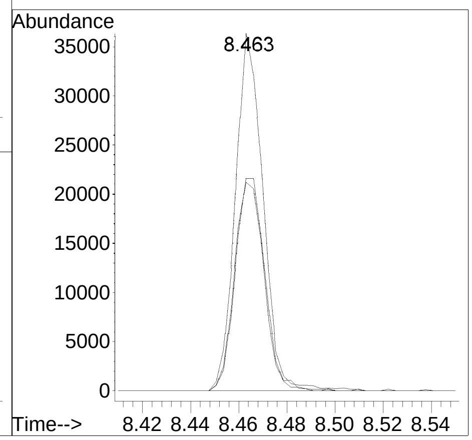


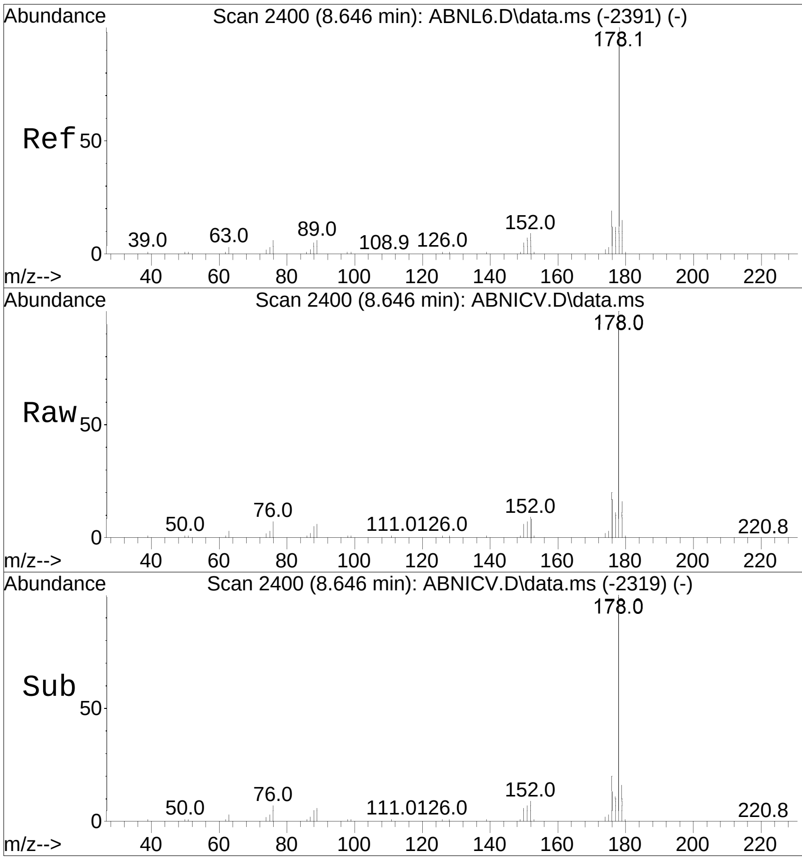



#84
Pentachlorophenol
Concen: 4.55 ug/ml
RT: 8.463 min Scan# 2341
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:266 Resp: 29051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.1 | 49.7 | 74.5 |
| 268 | 63.9 | 50.5 | 75.7 |

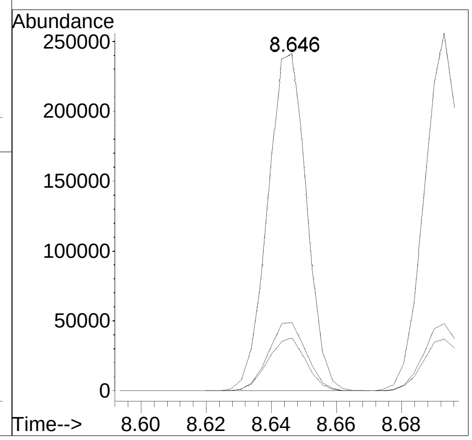


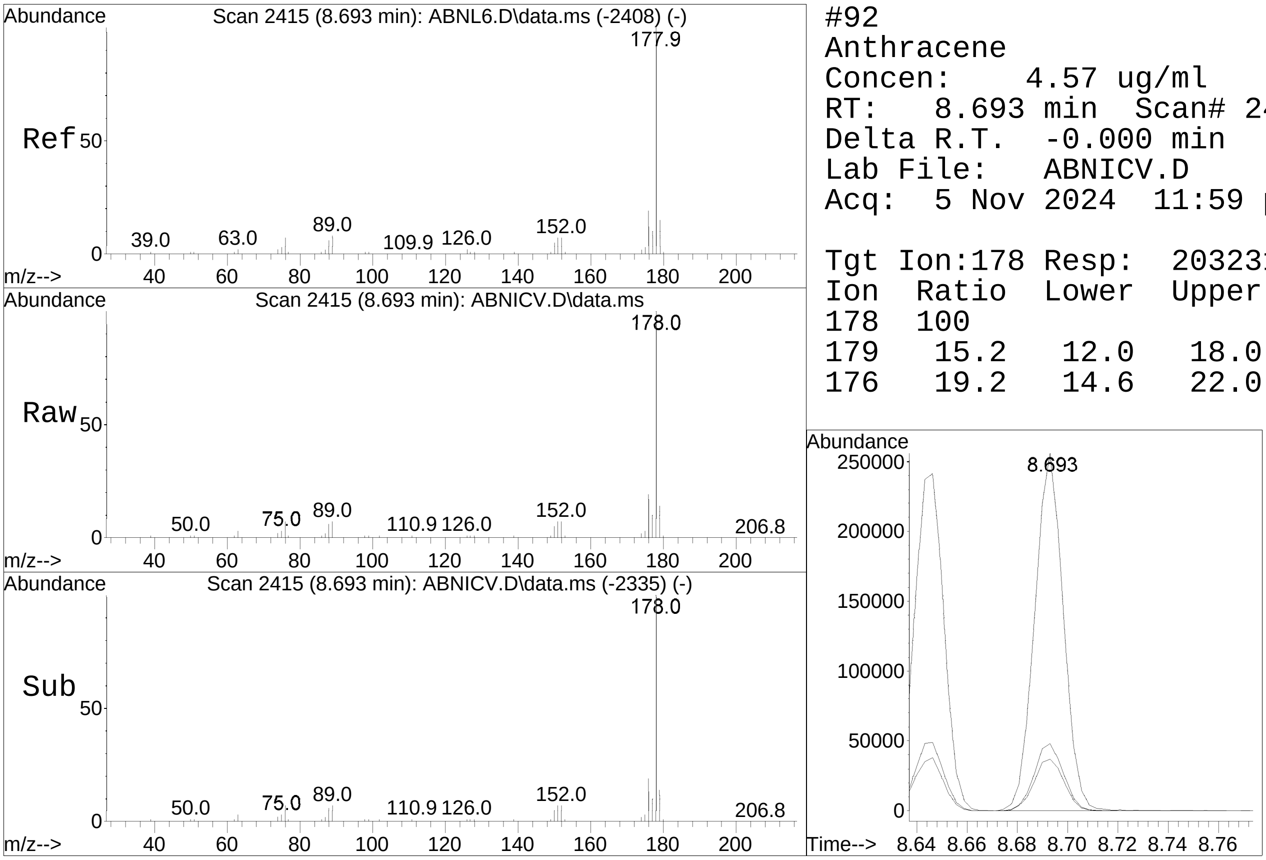



#91
Phenanthrene
Concen: 4.41 ug/ml
RT: 8.646 min Scan# 2400
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:178 Resp: 199979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.4 | 12.2 | 18.2 |
| 176 | 19.8 | 15.4 | 23.2 |

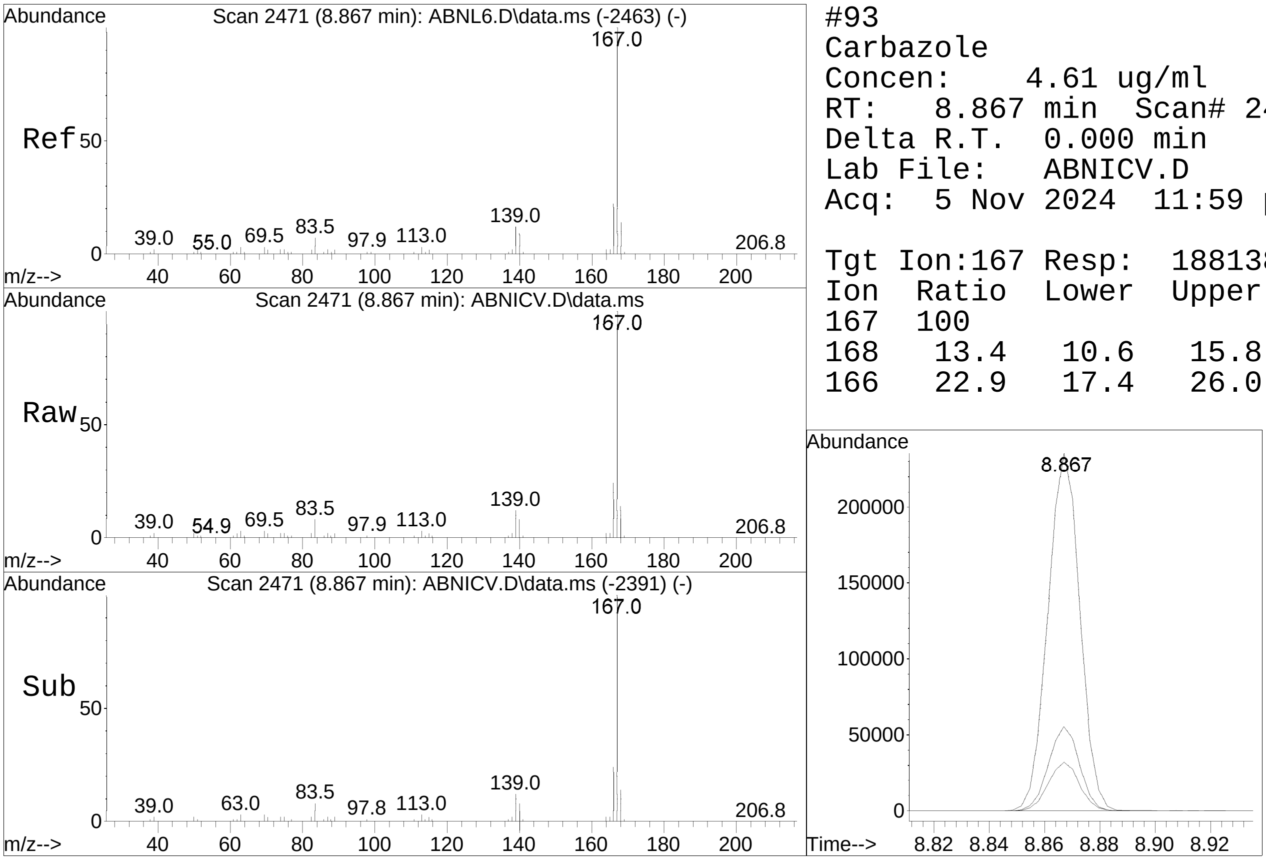





#92
Anthracene
Concen: 4.57 ug/ml
RT: 8.693 min Scan# 2415
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:178 Resp: 203231

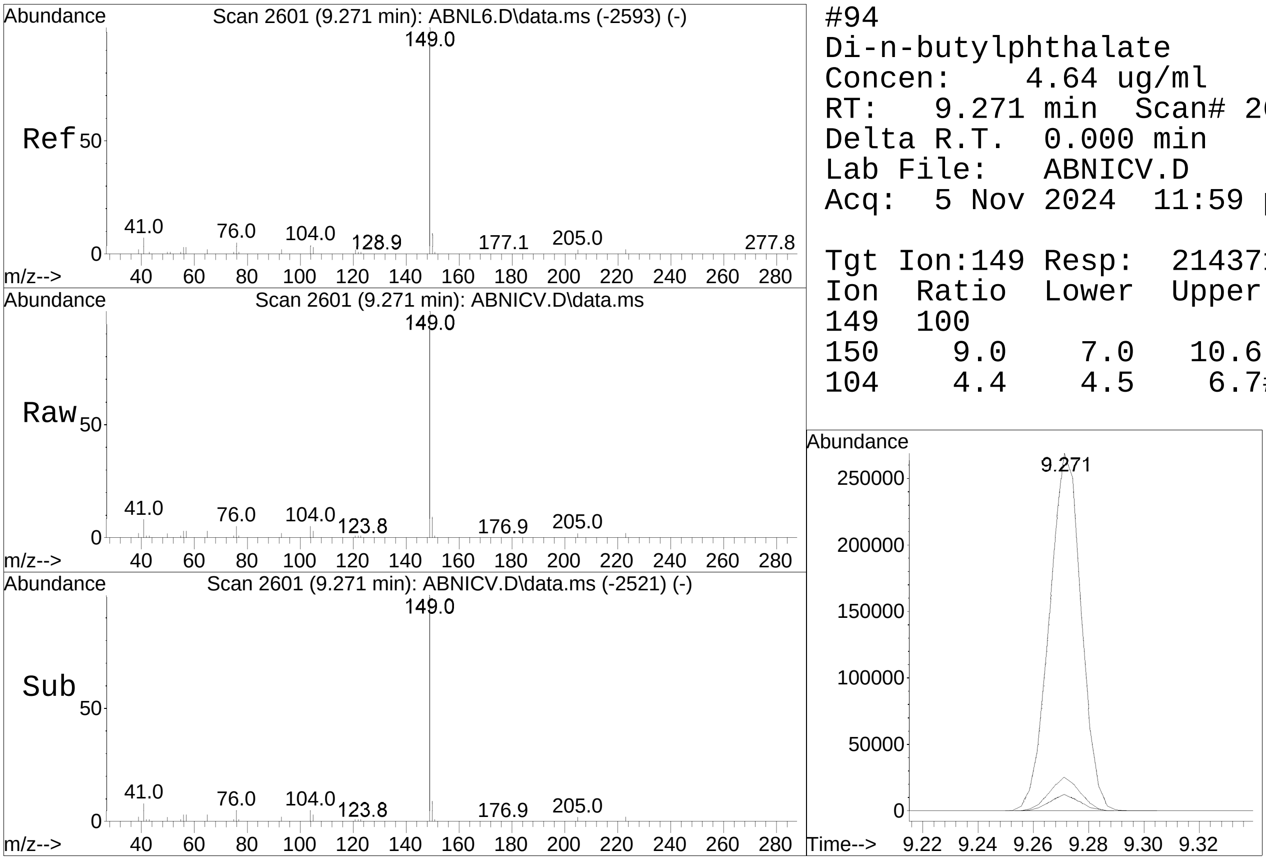
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.2 | 12.0 | 18.0 |
| 176 | 19.2 | 14.6 | 22.0 |




#93
Carbazole
Concen: 4.61 ug/ml
RT: 8.867 min Scan# 2471
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:167 Resp: 188138

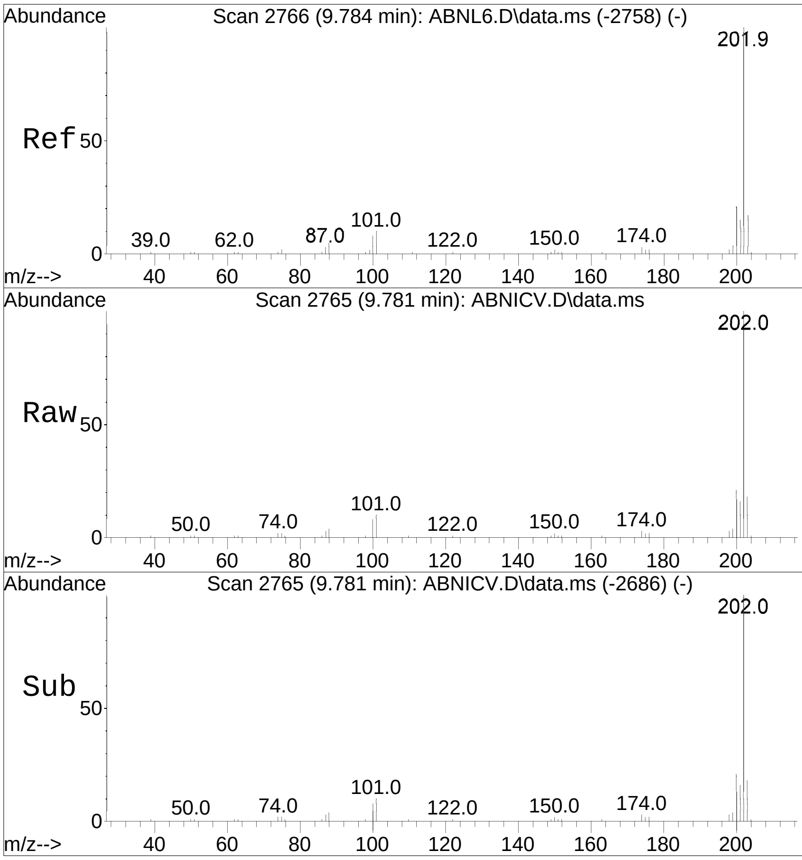
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 168 | 13.4 | 10.6 | 15.8 |
| 166 | 22.9 | 17.4 | 26.0 |




#94
Di-n-butylphthalate
Concen: 4.64 ug/ml
RT: 9.271 min Scan# 2601
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:149 Resp: 214371

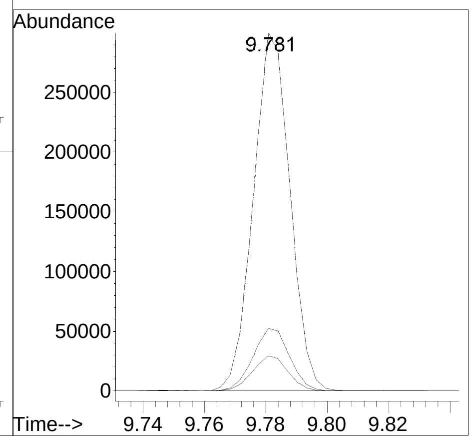
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.0 | 7.0 | 10.6 |
| 104 | 4.4 | 4.5 | 6.7# |

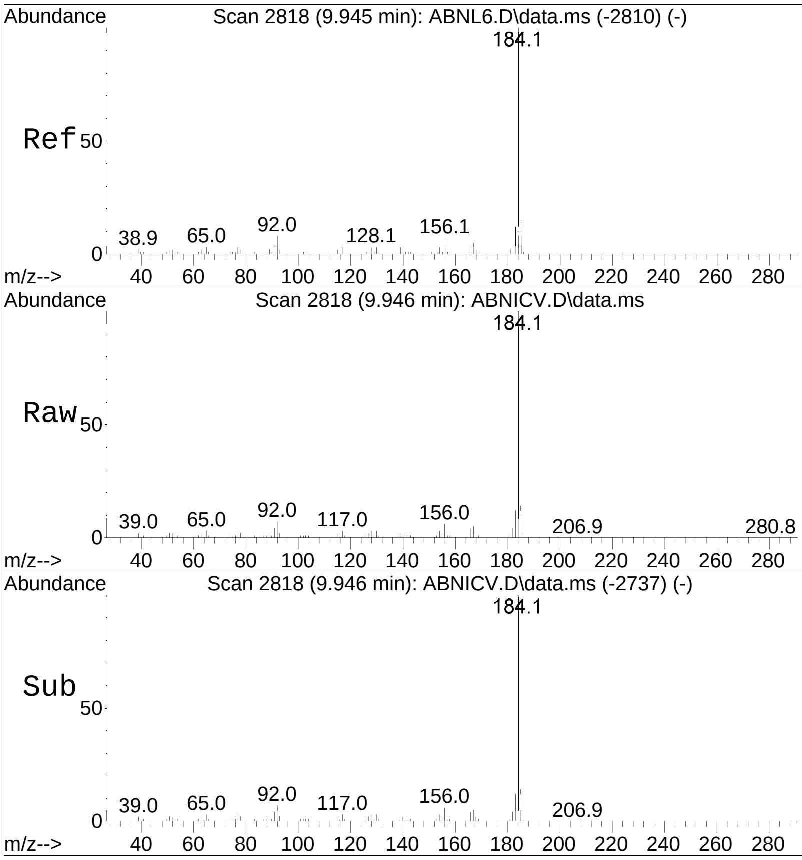



#95
Fluoranthene
Concen: 4.53 ug/ml
RT: 9.781 min Scan# 2765
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:202 Resp: 246949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.5 | 13.5 | 20.3# |
| 203 | 17.5 | 13.6 | 20.4 |

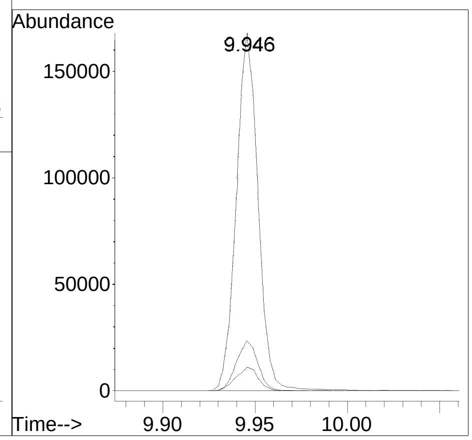


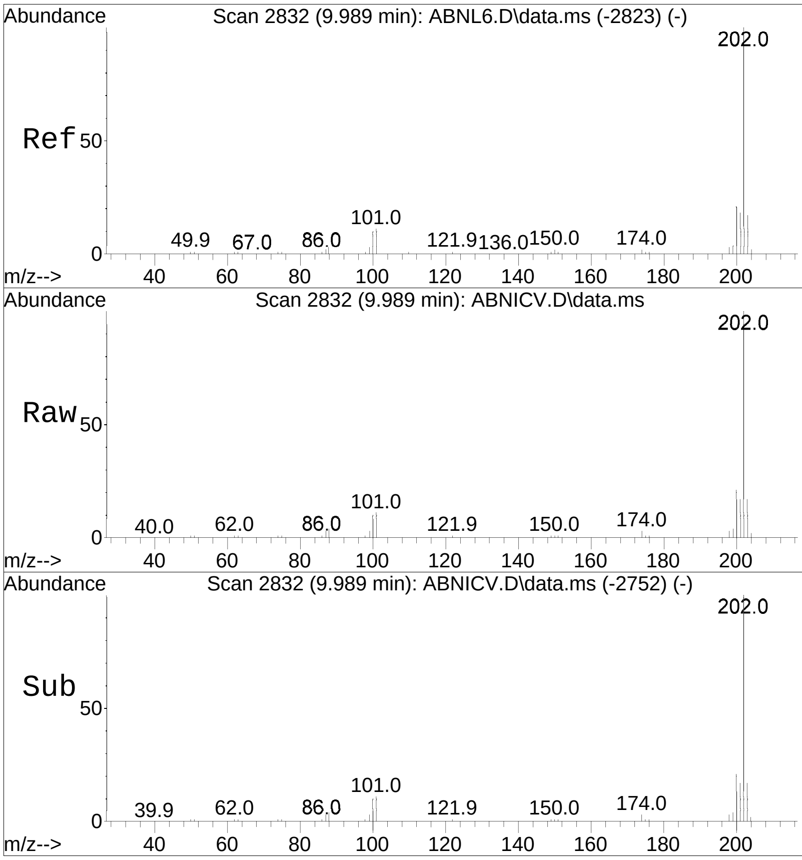



#96
Benzidine
Concen: 4.63 ug/ml
RT: 9.946 min Scan# 2818
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:184 Resp: 136878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 6.9 | 9.1 | 13.7# |
| 185 | 13.9 | 11.1 | 16.7 |

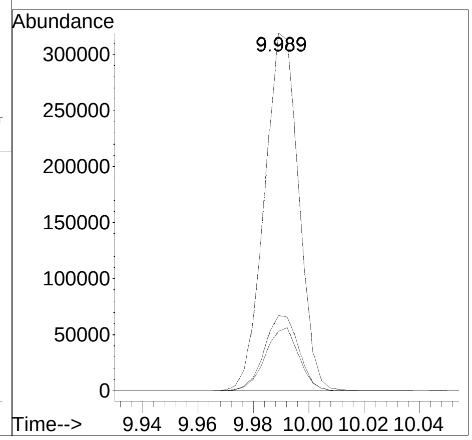


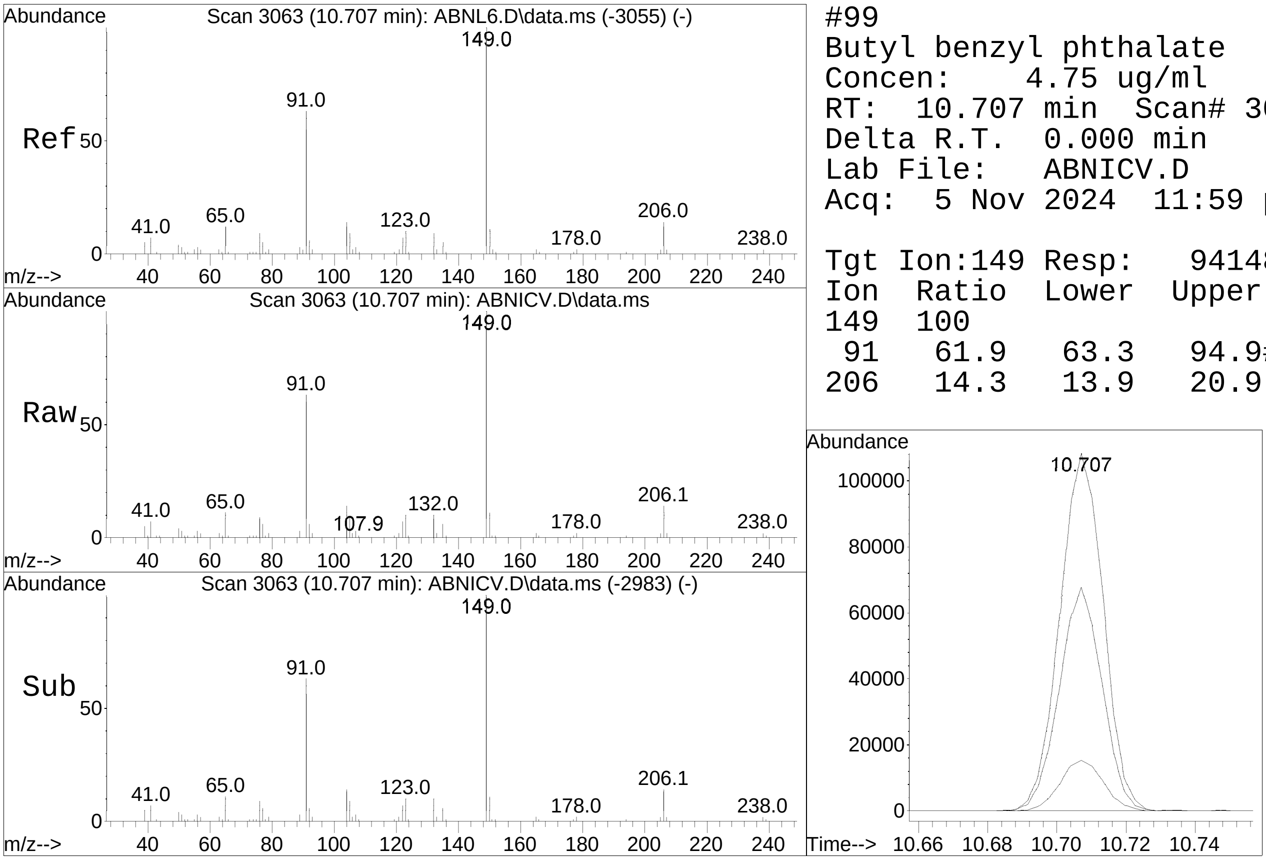



#97
Pyrene
Concen: 4.67 ug/ml
RT: 9.989 min Scan# 2832
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:202 Resp: 272087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 16.7 | 25.1 |
| 203 | 17.4 | 14.2 | 21.4 |

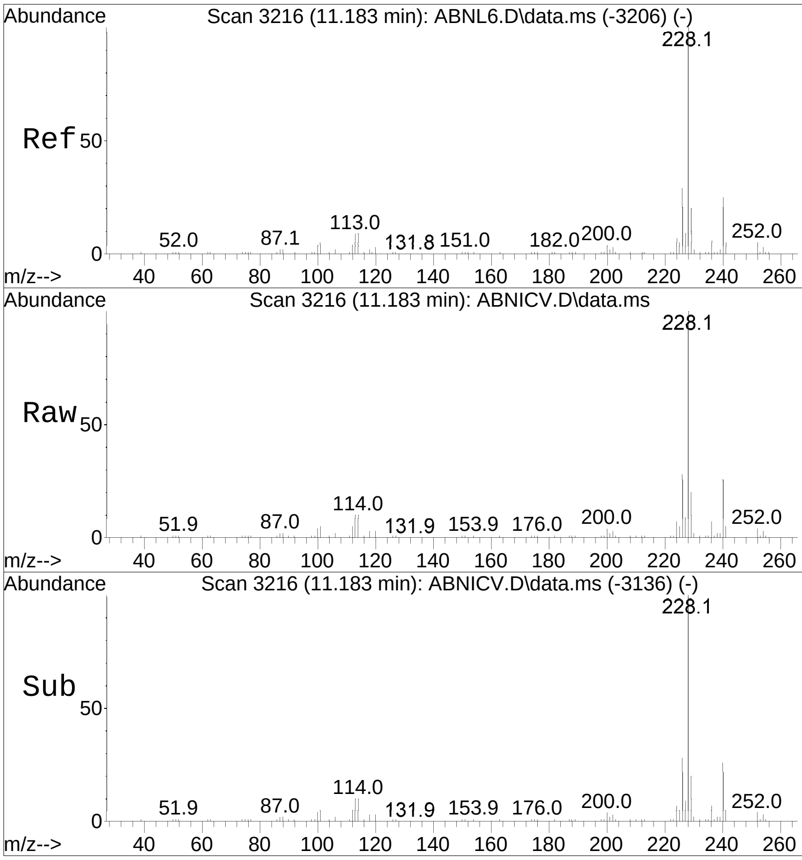





#99
Butyl benzyl phthalate
Concen: 4.75 ug/ml
RT: 10.707 min Scan# 3063
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:149 Resp: 94148

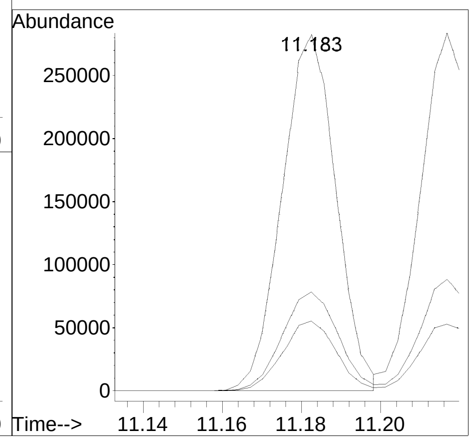
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 61.9 | 63.3 | 94.9# |
| 206 | 14.3 | 13.9 | 20.9 |

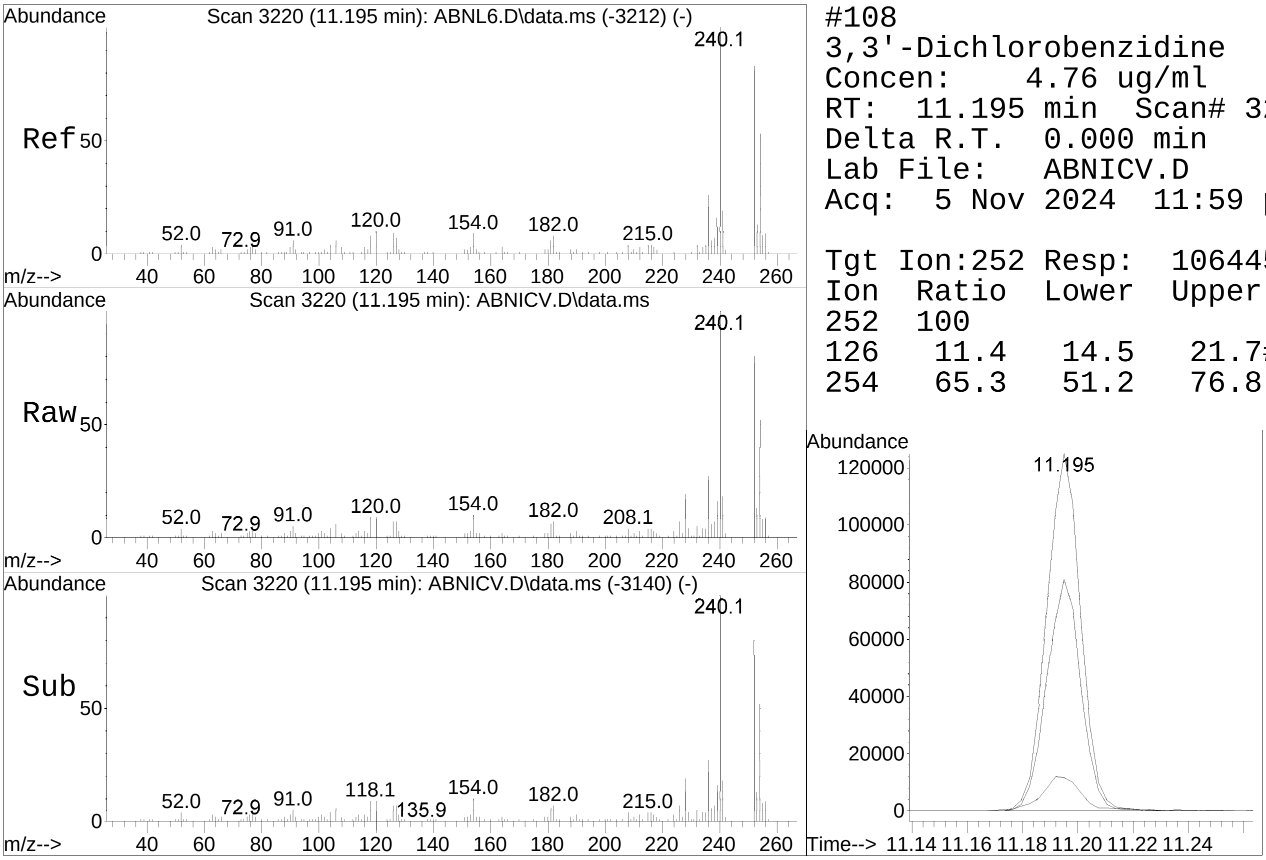



#107
Benzo(a)anthracene
Concen: 4.44 ug/ml
RT: 11.183 min Scan# 3216
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:228 Resp: 267033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.7 | 22.2 | 33.4 |
| 229 | 19.5 | 15.6 | 23.4 |

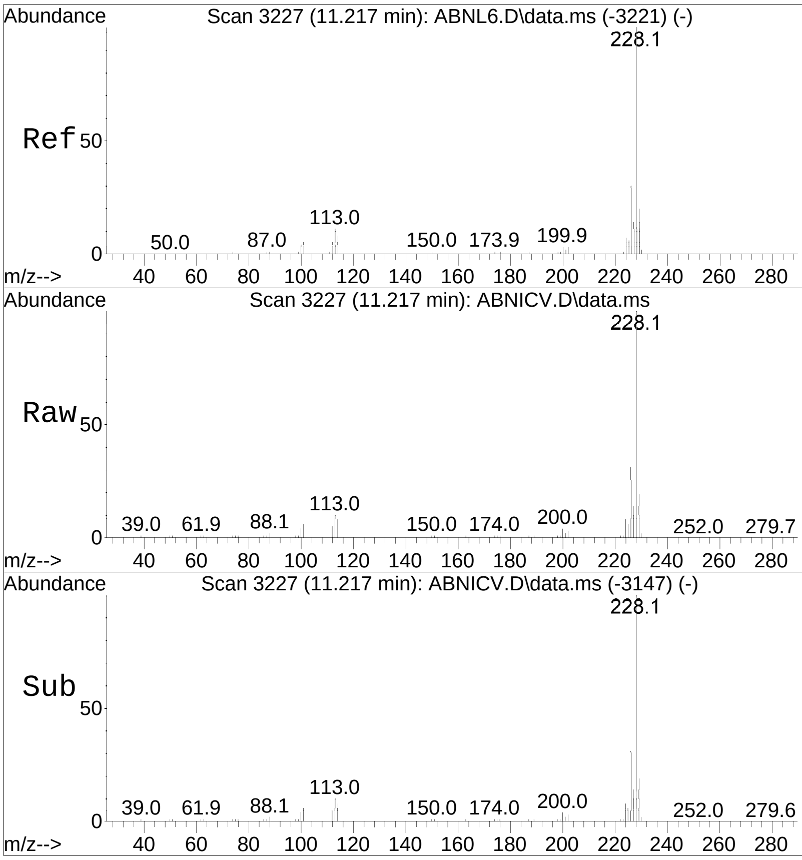





#108
3,3'-Dichlorobenzidine
Concen: 4.76 ug/ml
RT: 11.195 min Scan# 3220
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:252 Resp: 106445

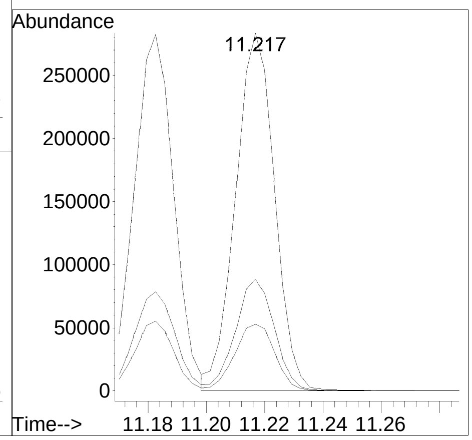
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 126 | 11.4 | 14.5 | 21.7# |
| 254 | 65.3 | 51.2 | 76.8 |

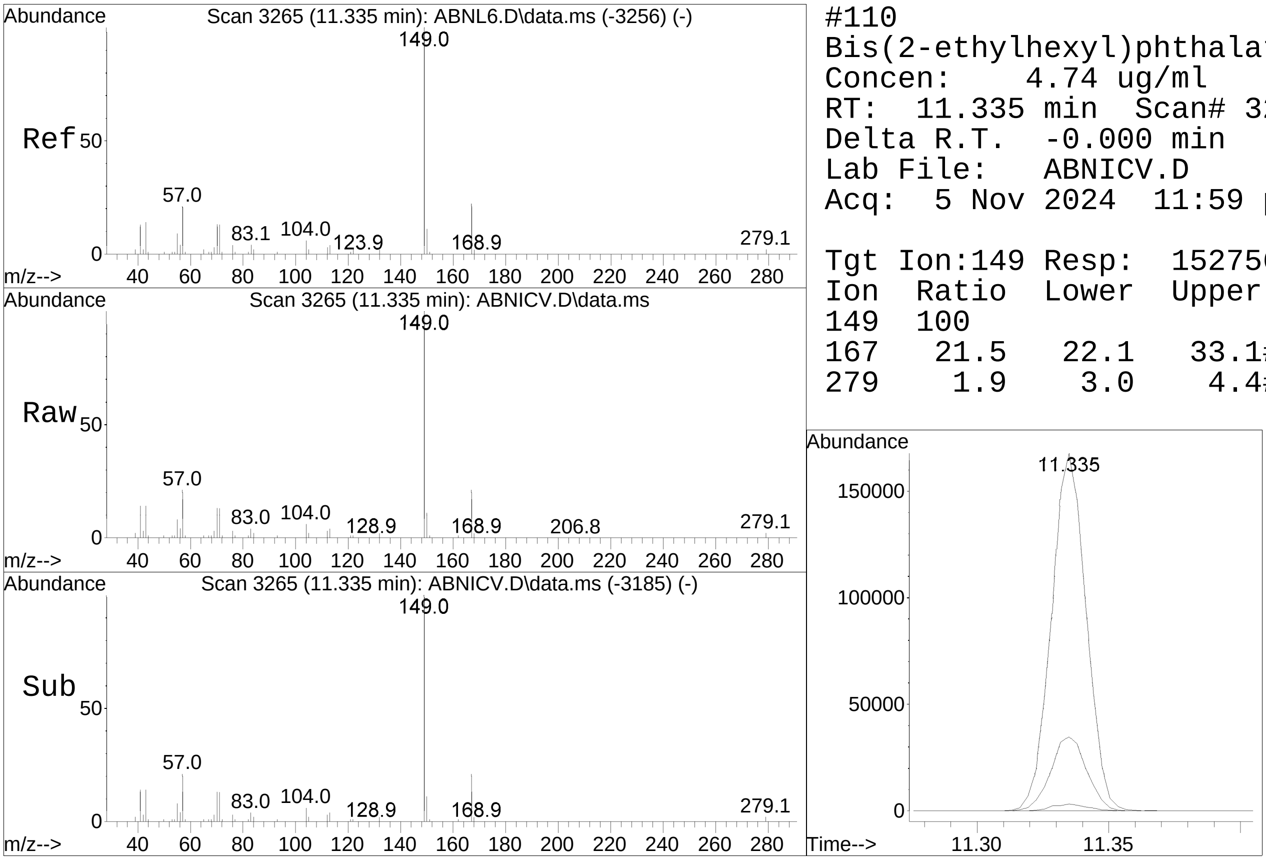



#109
Chrysene
Concen: 4.40 ug/ml
RT: 11.217 min Scan# 3227
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:228 Resp: 263085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.3 | 24.0 | 36.0 |
| 229 | 19.4 | 15.8 | 23.8 |

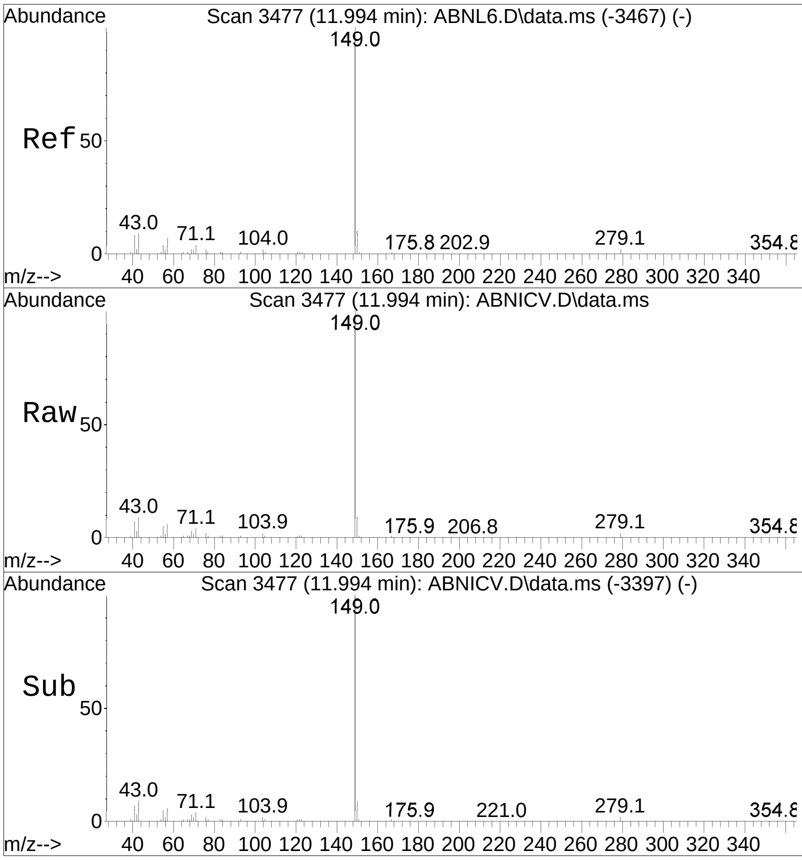





#110
Bis(2-ethylhexyl)phthalate
Concen: 4.74 ug/ml
RT: 11.335 min Scan# 3265
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:149 Resp: 152756

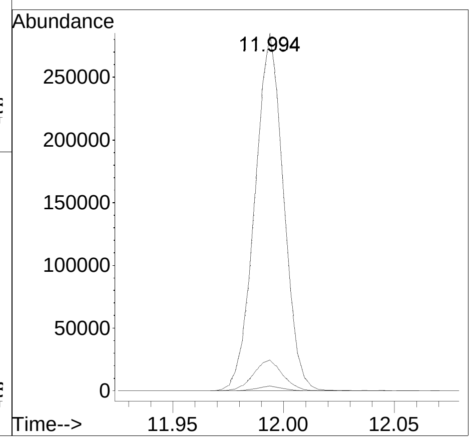
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 21.5 | 22.1 | 33.1# |
| 279 | 1.9 | 3.0 | 4.4# |

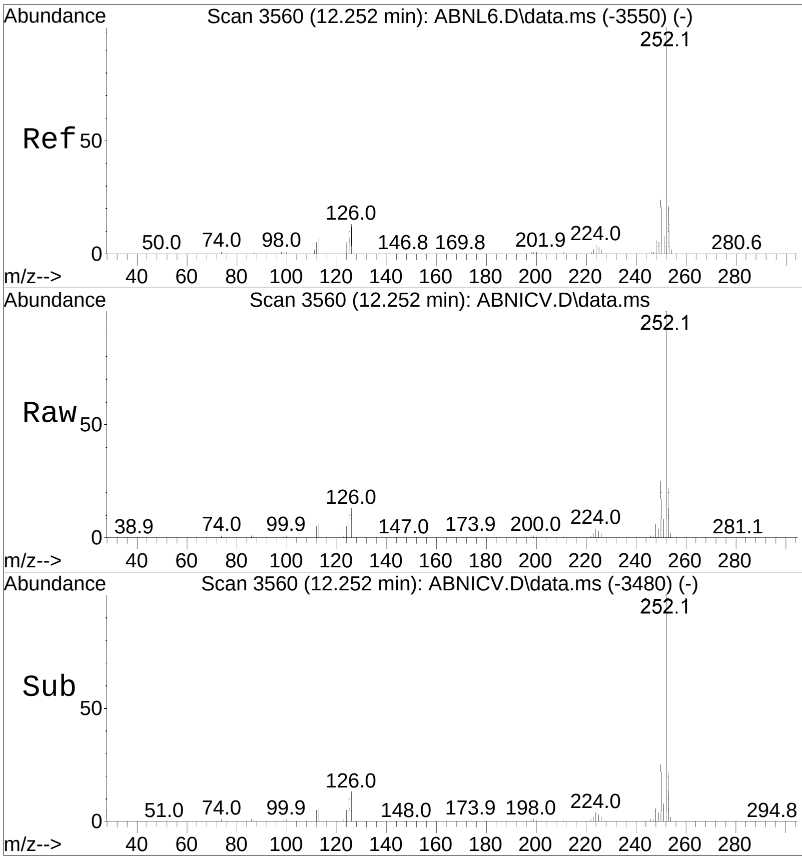



#111
Di-n-octylphthalate
Concen: 4.75 ug/ml
RT: 11.994 min Scan# 3477
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:149 Resp: 254994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 43 | 8.9 | 18.8 | 28.2# |
| 167 | 1.2 | 1.3 | 1.9# |

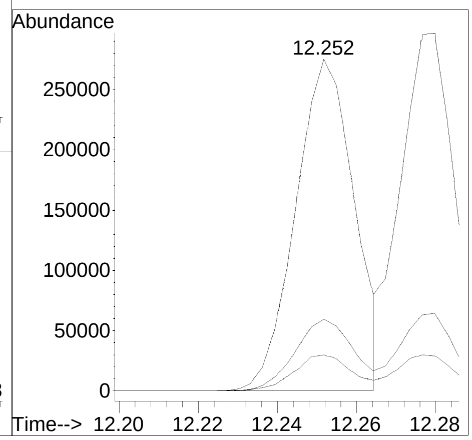


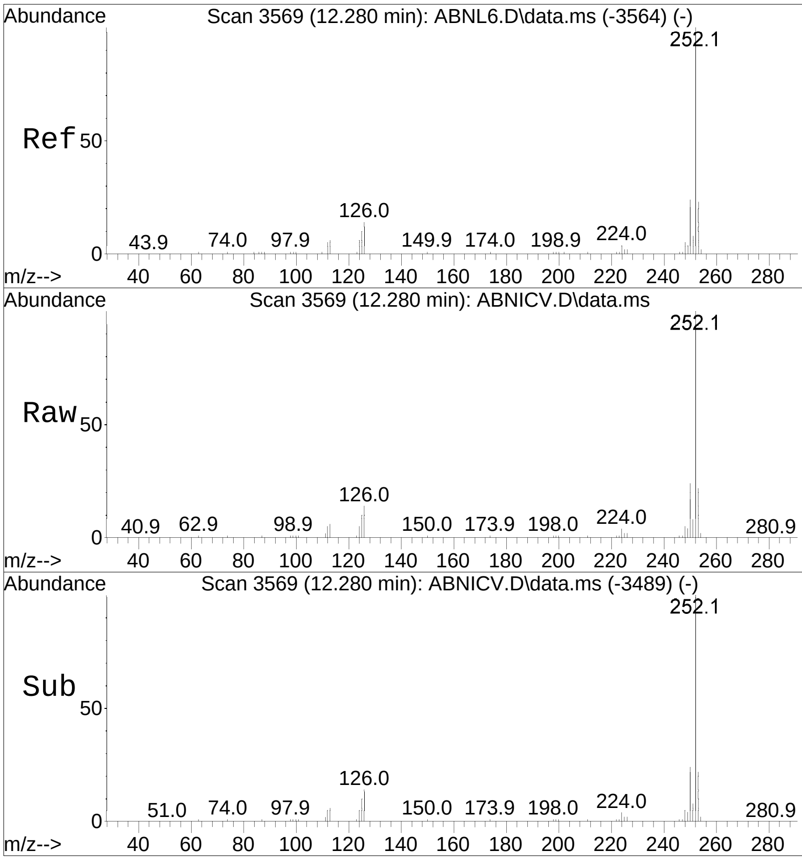



#112
Benzo(b)fluoranthene
Concen: 4.49 ug/ml
RT: 12.252 min Scan# 3560
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:252 Resp: 282392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 125 | 10.8 | 13.3 | 19.9# |
| 253 | 21.6 | 17.1 | 25.7 |

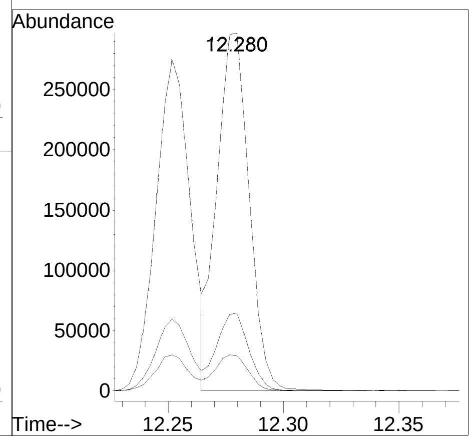


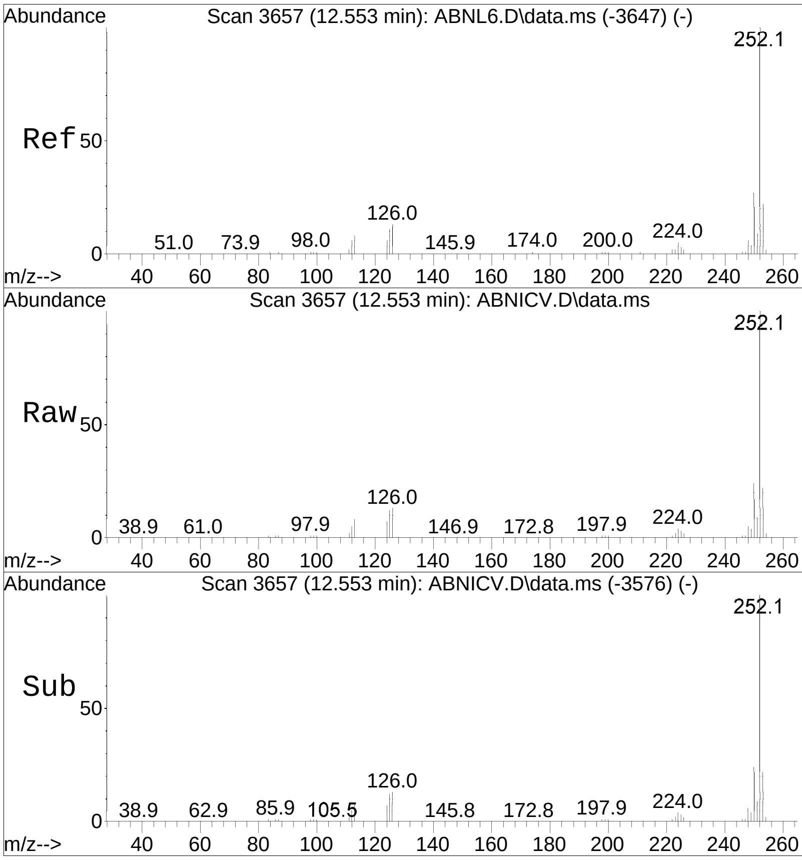



#113
Benzo(k)fluoranthene
Concen: 4.71 ug/ml
RT: 12.280 min Scan# 3569
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:252 Resp: 288769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 125 | 10.3 | 13.0 | 19.6# |
| 253 | 21.4 | 16.8 | 25.2 |

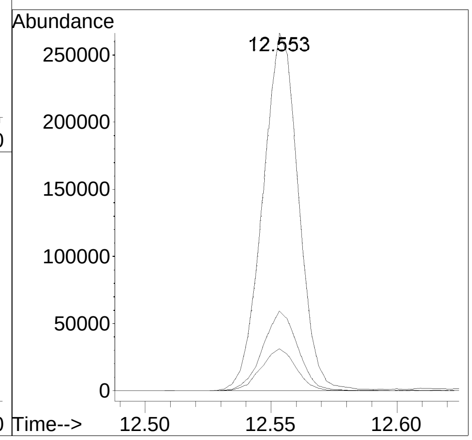


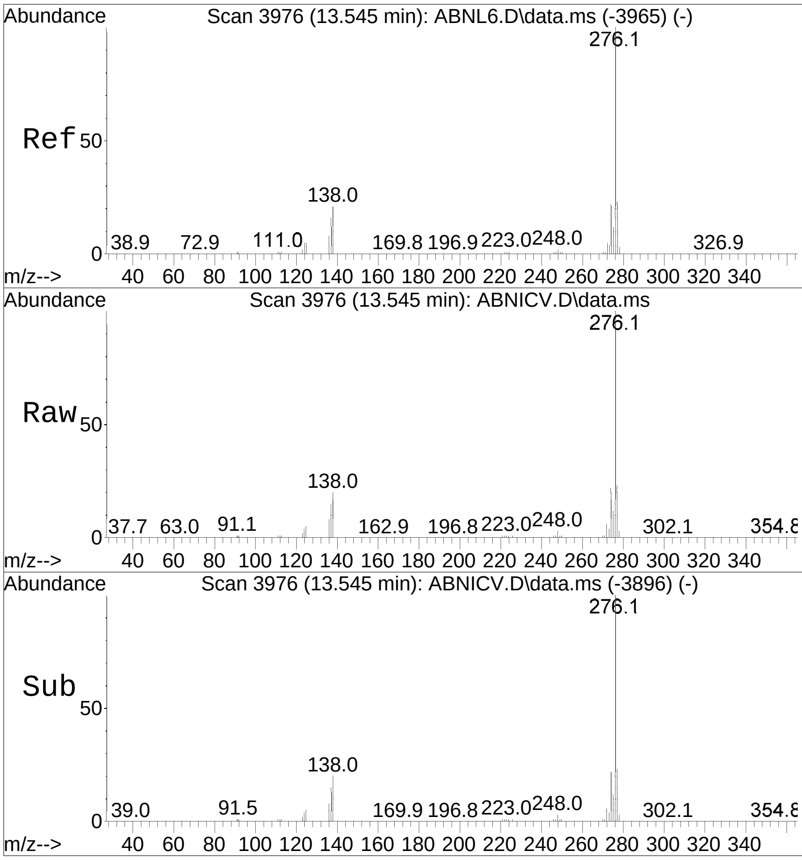



#114
Benzo(a)pyrene
Concen: 4.67 ug/ml
RT: 12.553 min Scan# 3657
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:252 Resp: 262323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 125 | 11.6 | 14.2 | 21.2# |
| 253 | 21.9 | 16.9 | 25.3 |

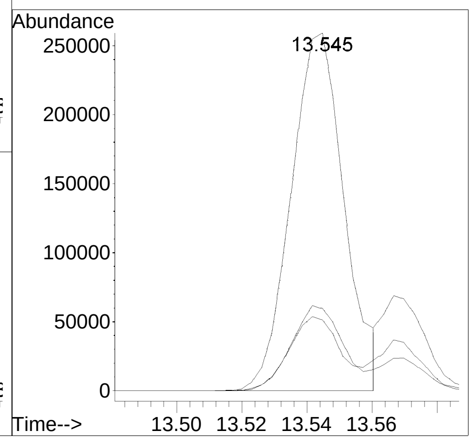


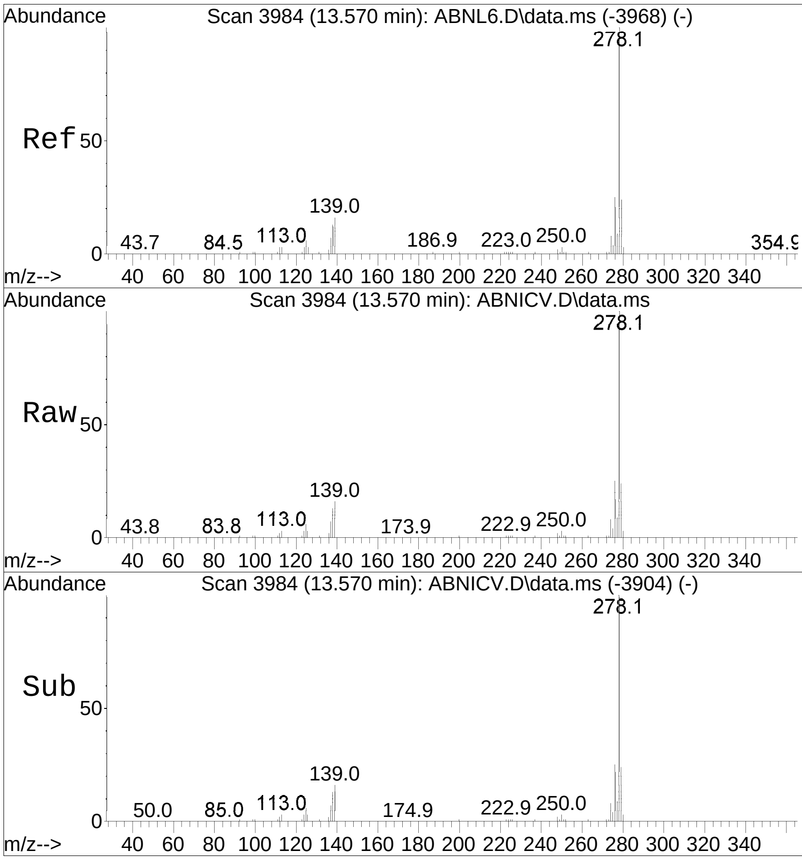



#116
Indeno(1,2,3-cd)pyrene
Concen: 4.58 ug/mL
RT: 13.545 min Scan# 3976
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:276 Resp: 292191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 20.8 | 25.1 | 37.7# |
| 277 | 23.1 | 18.6 | 28.0 |

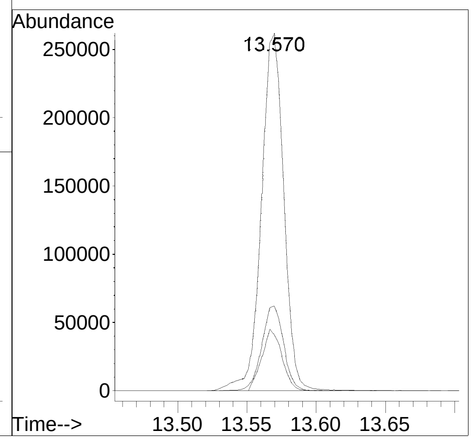


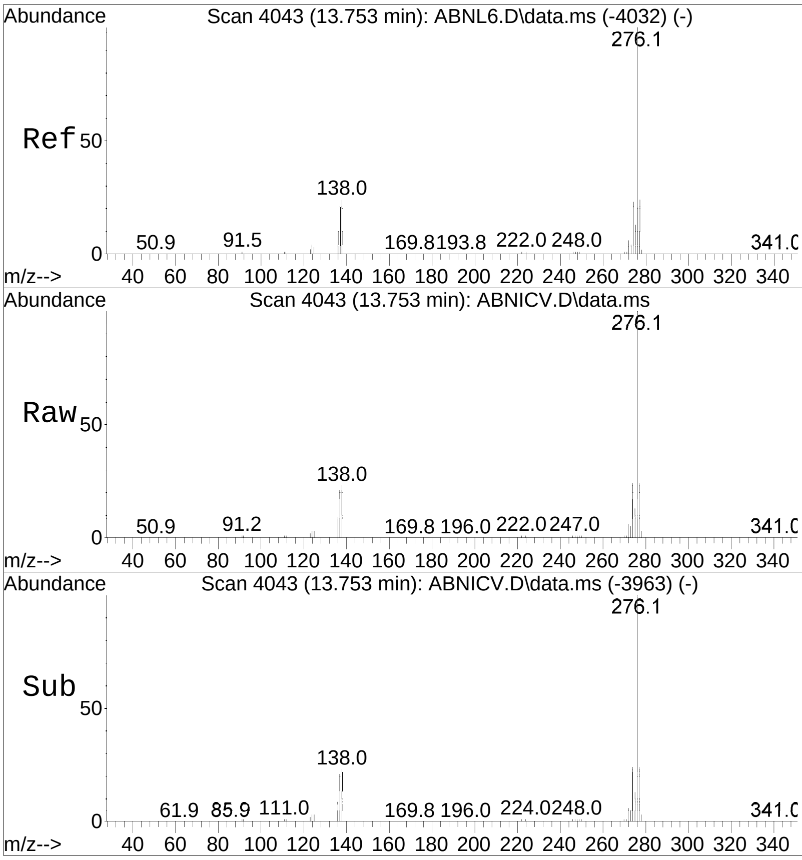



#117
Dibenzo(a,h)anthracene
Concen: 4.67 ug/ml
RT: 13.570 min Scan# 3984
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:278 Resp: 293099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 15.6 | 20.8 | 31.2# |
| 279 | 23.3 | 18.3 | 27.5 |

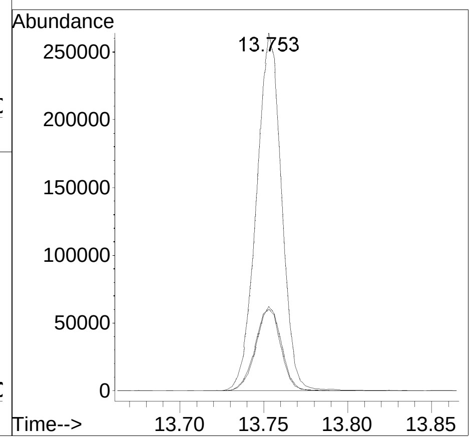





#118
Benzo(ghi)perylene
Concen: 4.45 ug/ml
RT: 13.753 min Scan# 4043
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:276 Resp: 274527

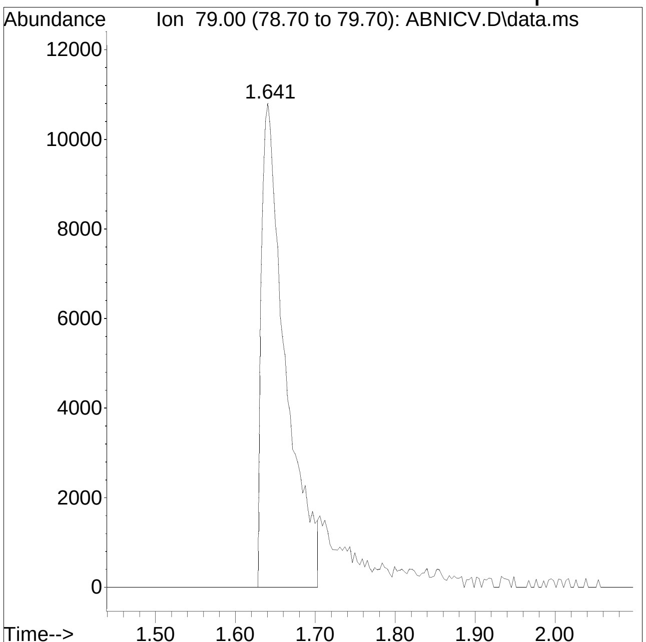
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.4 | 29.2 | 43.8# |
| 277 | 23.6 | 18.8 | 28.2 |

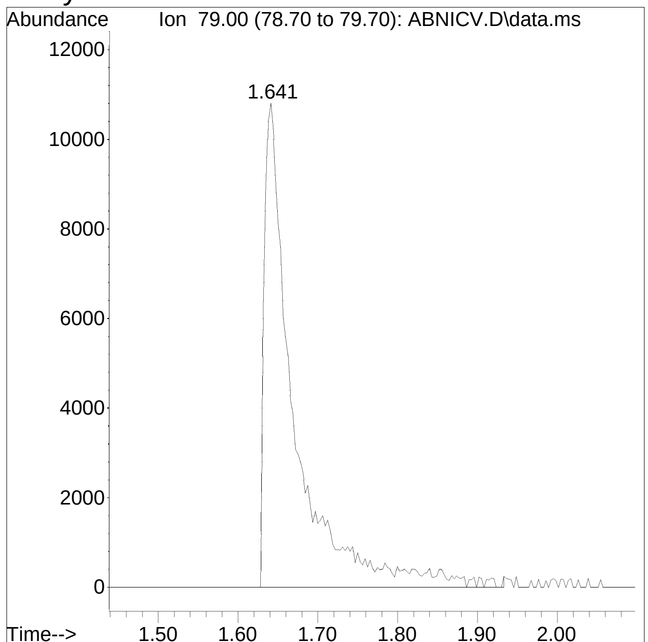


Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ABNICV.D                   Operator    : Dakota:HNY
Date Inj'd  : 11/5/2024 11:59 pm         Instrument  : Dakota
Sample      : CQICV1,32,,ABNICV Lot# 111Quant Date  : 11/11/2024  3:35 pm
```

Compound #3: Pyridine




Original Peak Response = 22333        Manual Peak Response = 28316 M1

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9ICV.D
Acq On : 6 Nov 2024 12:23 am
Operator : Dakota:HNY
Sample : CQICV2,32,,AP9ICV Lot# 11139
Misc : WG1994500
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 06 10:19:36 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 10:13:33 2024
Response via : Initial Calibration

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 27 | I | IS2_1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 101 | 0.00 |
| 28 | T | Benzaldehyde | 0.703 | 0.766 | -9.0 | 102 | 0.00 |
| 29 | T | Acetophenone | 1.403 | 1.539 | -9.7 | 107 | 0.00 |
| 30 | T | m-Toluidine | 1.287 | 1.347 | -4.7 | 103 | 0.00 |
| 31 | T | 2-Chloroaniline | 1.368 | 1.507 | -10.2 | 107 | 0.00 |
| 57 | I | IS2_Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 105 | 0.00 |
| 58 | T | a-Terpineol | 0.221 | 0.239 | -8.1 | 107 | 0.00 |
| 59 | T | 3-Chloroaniline | 0.115 | 0.123 | -7.0 | 103 | 0.00 |
| 60 | T | 2,6-Dichlorophenol | 0.296 | 0.316 | -6.8 | 104 | 0.00 |
| 61 | T | 1-chloro-2-nitrobenzene | 0.113 | 0.122 | -8.0 | 102 | 0.00 |
| 62 | T | Caprolactam | 0.123 | 0.131 | -6.5 | 109 | 0.00 |
| 63 | T | 1,2,4,5-Tetrachlorobenzene | 0.413 | 0.446 | -8.0 | 108 | 0.00 |
| 64 | T | Biphenyl | 0.842 | 0.904 | -7.4 | 106 | 0.00 |
| 85 | I | IS2_Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 86 | T | Dichloran | 0.169 | 0.181 | -7.1 | 112 | 0.00 |
| 87 | T | Pentachloronitrobenzene | 0.187 | 0.195 | -4.3 | 111 | 0.00 |
| 100 | I | IS2_Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 101 | T | Diphenamid | 0.416 | 0.467 | -12.3 | 110 | 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\241105RVTICAL\
Data File : AP9ICV.D
Acq On : 6 Nov 2024 12:23 am
Operator : Dakota:HNY
Sample : CQICV2,32,,AP9ICV Lot# 11139
Misc : WG1994500
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 06 10:19:36 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 10:13:33 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 27) IS2_1,4-Dichlorobenzen... | 4.282 | 152 | 28764 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 28342 | | | Recovery = | 101.49% | |
| 57) IS2_Naphthalene-d8 | 5.519 | 136 | 103898 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 98544 | | | Recovery = | 105.43% | |
| 85) IS2_Acenaphthene-d10 | 7.210 | 164 | 66081 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 64361 | | | Recovery = | 102.67% | |
| 100) IS2_Phenanthrene-d10 | 8.621 | 188 | 145261 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 142493 | | | Recovery = | 101.94% | |
| System Monitoring Compounds | | | | | |
| Target Compounds | | | | | Qvalue |
| 28) Benzaldehyde | 3.847 | 105 | 27551 | 5.446 ug/ml | 95 |
| 29) Acetophenone | 4.693 | 105 | 55323 | 5.482 ug/ml# | 80 |
| 30) m-Toluidine | 4.780 | 106 | 48432 | 5.234 ug/ml | 94 |
| 31) 2-Chloroaniline | 5.134 | 127 | 54178 | 5.507 ug/ml# | 90 |
| 58) a-Terpineol | 5.588 | 59 | 30996 | 5.390 ug/ml# | 78 |
| 59) 3-Chloroaniline | 5.600 | 65 | 15940 | 5.355 ug/ml | 85 |
| 60) 2,6-Dichlorophenol | 5.625 | 162 | 41042 | 5.346 ug/ml# | 83 |
| 61) 1-chloro-2-nitrobenzene | 5.877 | 111 | 15818 | 5.368 ug/ml# | 1 |
| 62) Caprolactam | 5.914 | 55 | 17075 | 5.349 ug/ml# | 71 |
| 63) 1,2,4,5-Tetrachloroben... | 6.387 | 216 | 57983 | 5.406 ug/ml# | 94 |
| 64) Biphenyl | 6.679 | 154 | 117373 | 5.369 ug/ml | 97 |
| 86) Dichloran | 8.332 | 206 | 14931 | 5.349 ug/ml# | 56 |
| 87) Pentachloronitrobenzene | 8.478 | 237 | 16109 | 5.227 ug/ml# | 75 |
| 101) Diphenamid | 9.535 | 167 | 84796 | 5.614 ug/ml# | 75 |

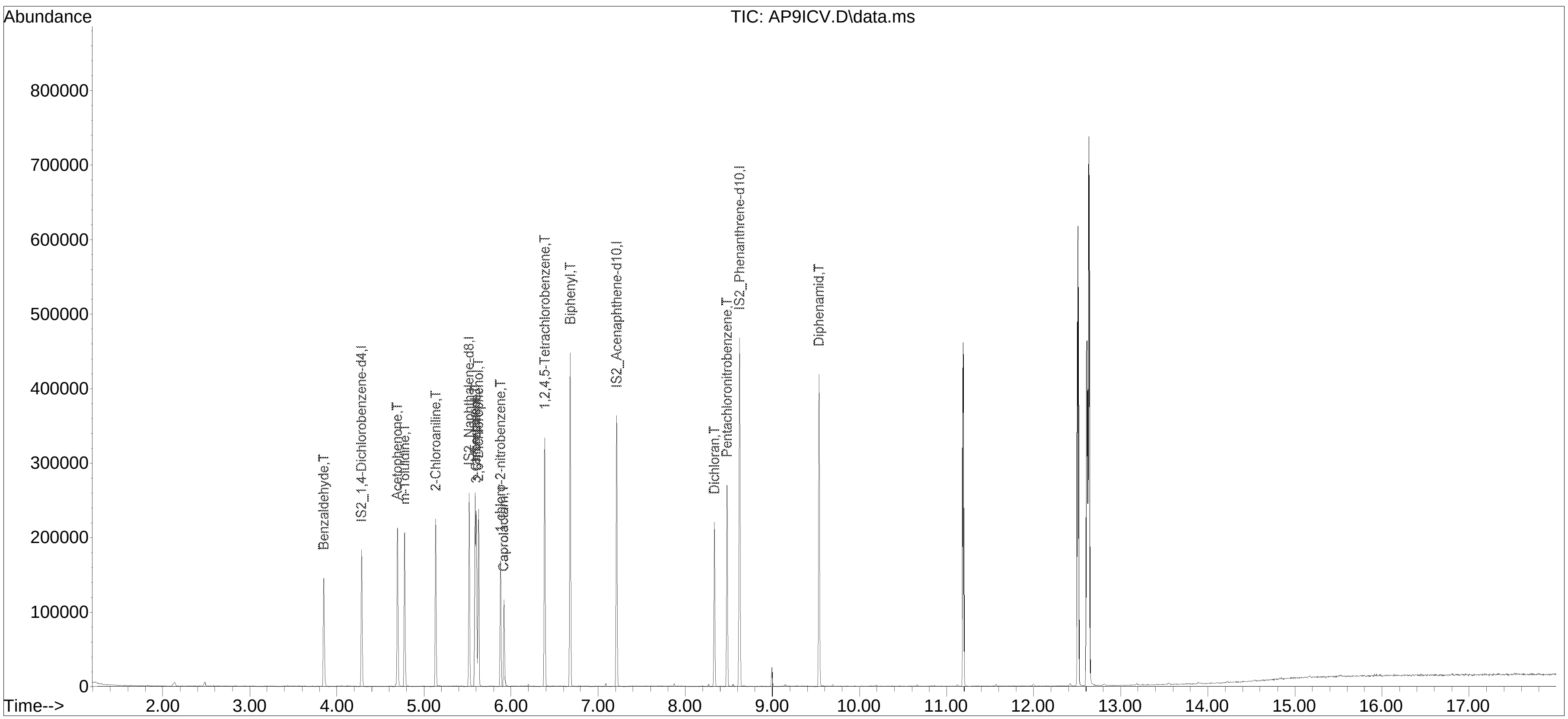
(#) = qualifier out of range (m) = manual integration (+) = signals summed

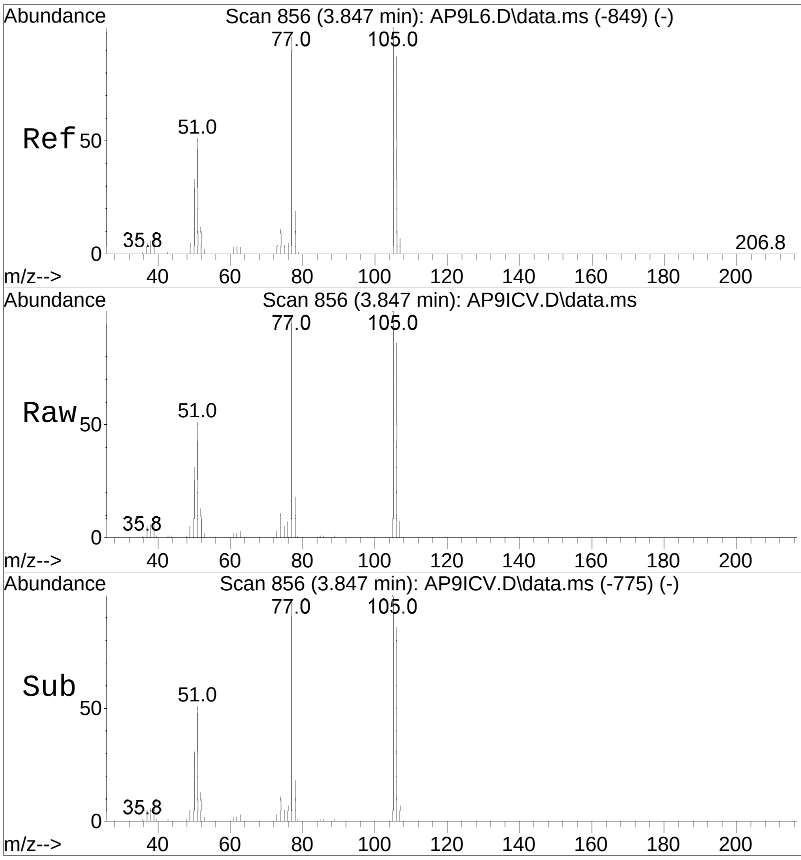
Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9ICV.D
Acq On    :  6 Nov 2024  12:23 am
Operator  : Dakota:HNY
Sample    : CQICV2,32,,AP9ICV Lot# 11139
Misc      : WG1994500
ALS Vial  : 20   Sample Multiplier: 1

Quant Time: Nov 06 10:19:36 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 10:13:33 2024
Response via : Initial Calibration

Sub List     : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•

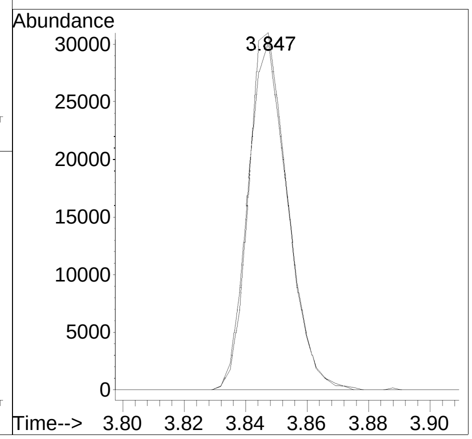


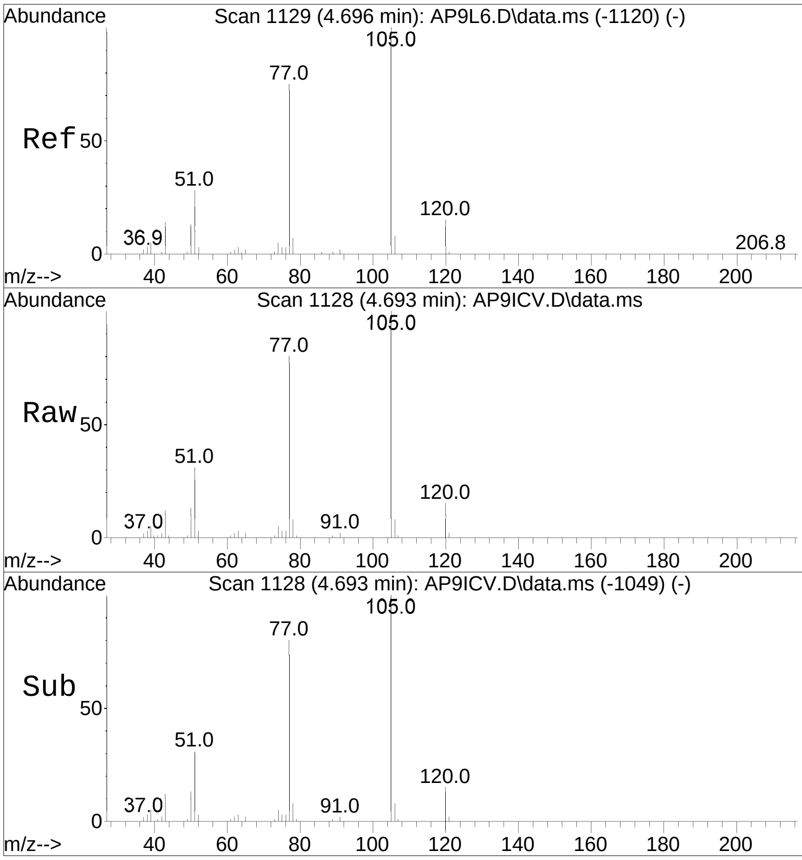



#28
Benzaldehyde
Concen: 5.45 ug/ml
RT: 3.847 min Scan# 856
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:105 Resp: 27551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 77 | 98.2 | 82.2 | 123.4 |

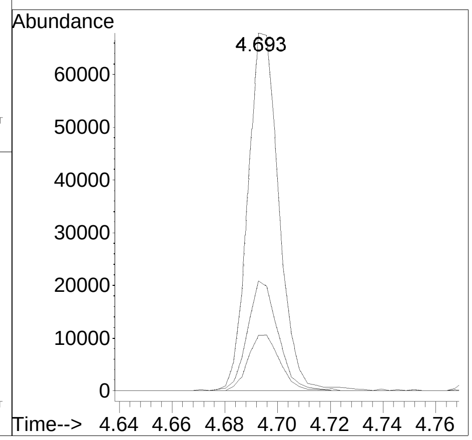


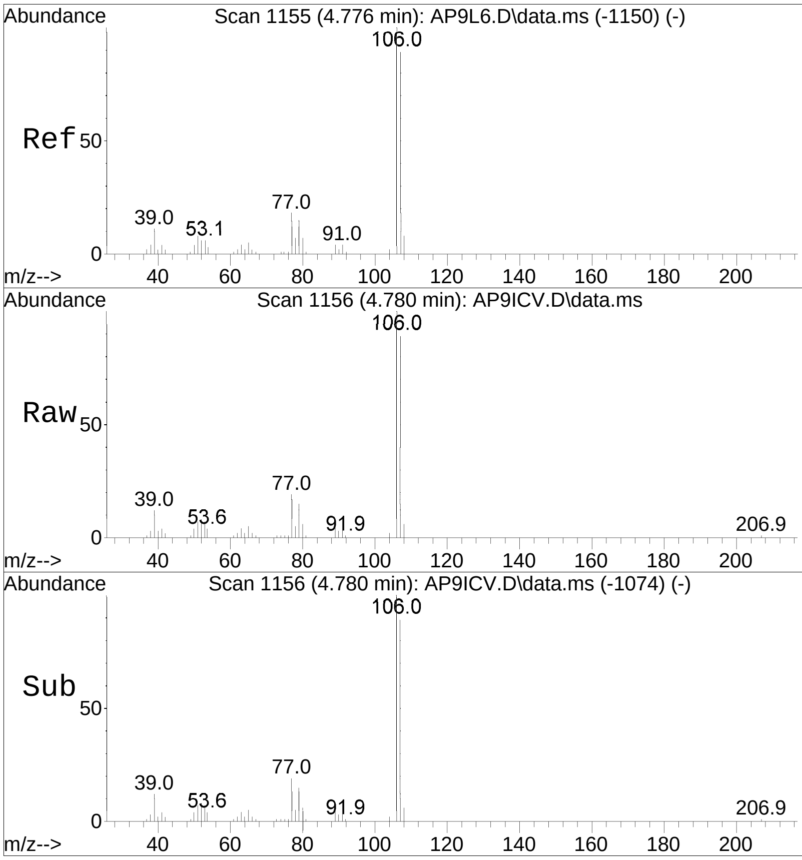



#29
Acetophenone
Concen: 5.48 ug/ml
RT: 4.693 min Scan# 1128
Delta R.T. -0.003 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:105 Resp: 55323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 15.8 | 20.5 | 30.7# |
| 51 | 30.2 | 34.9 | 52.3# |

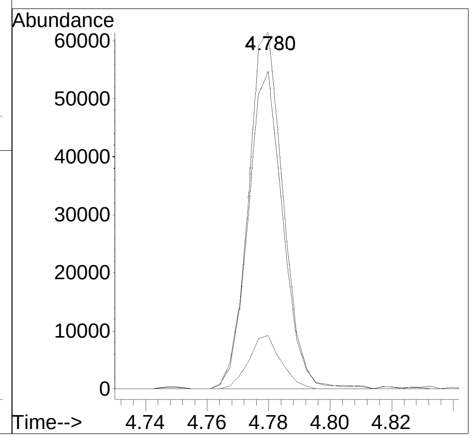


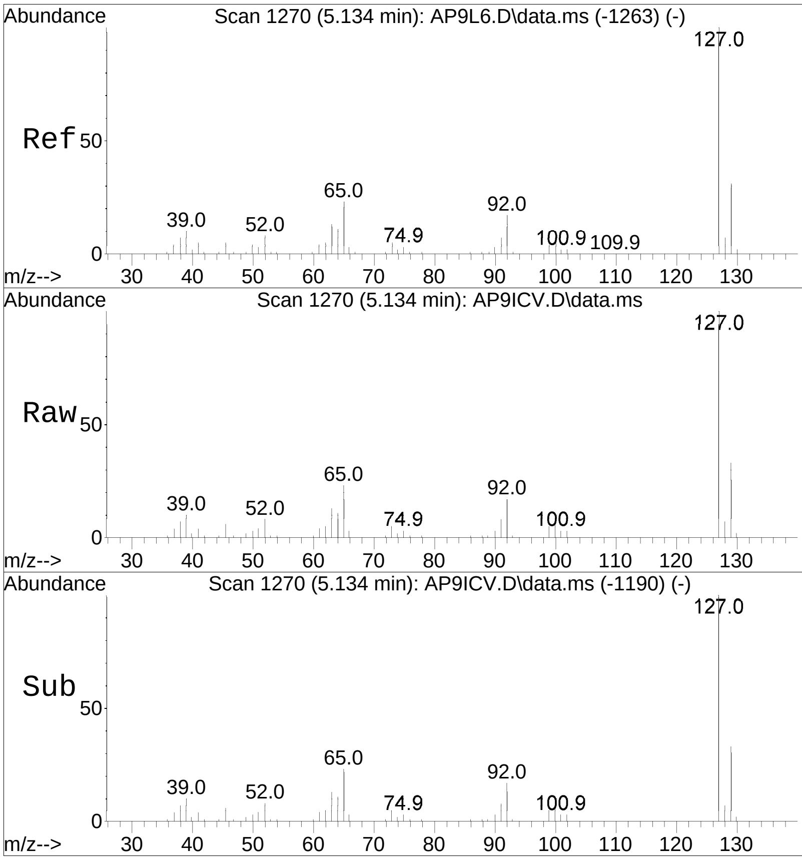



#30
m-Toluidine
Concen: 5.23 ug/ml
RT: 4.780 min Scan# 1156
Delta R.T. 0.004 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:106 Resp: 48432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 107 | 88.6 | 75.7 | 113.5 |
| 79 | 13.8 | 11.8 | 17.8 |

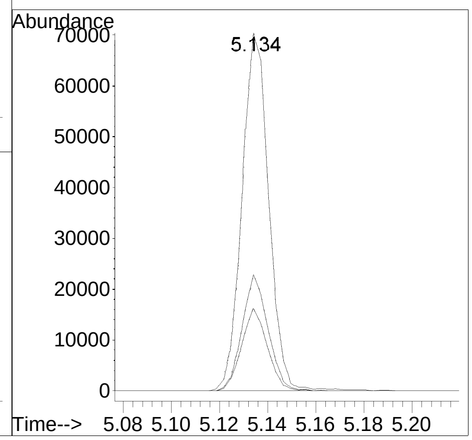


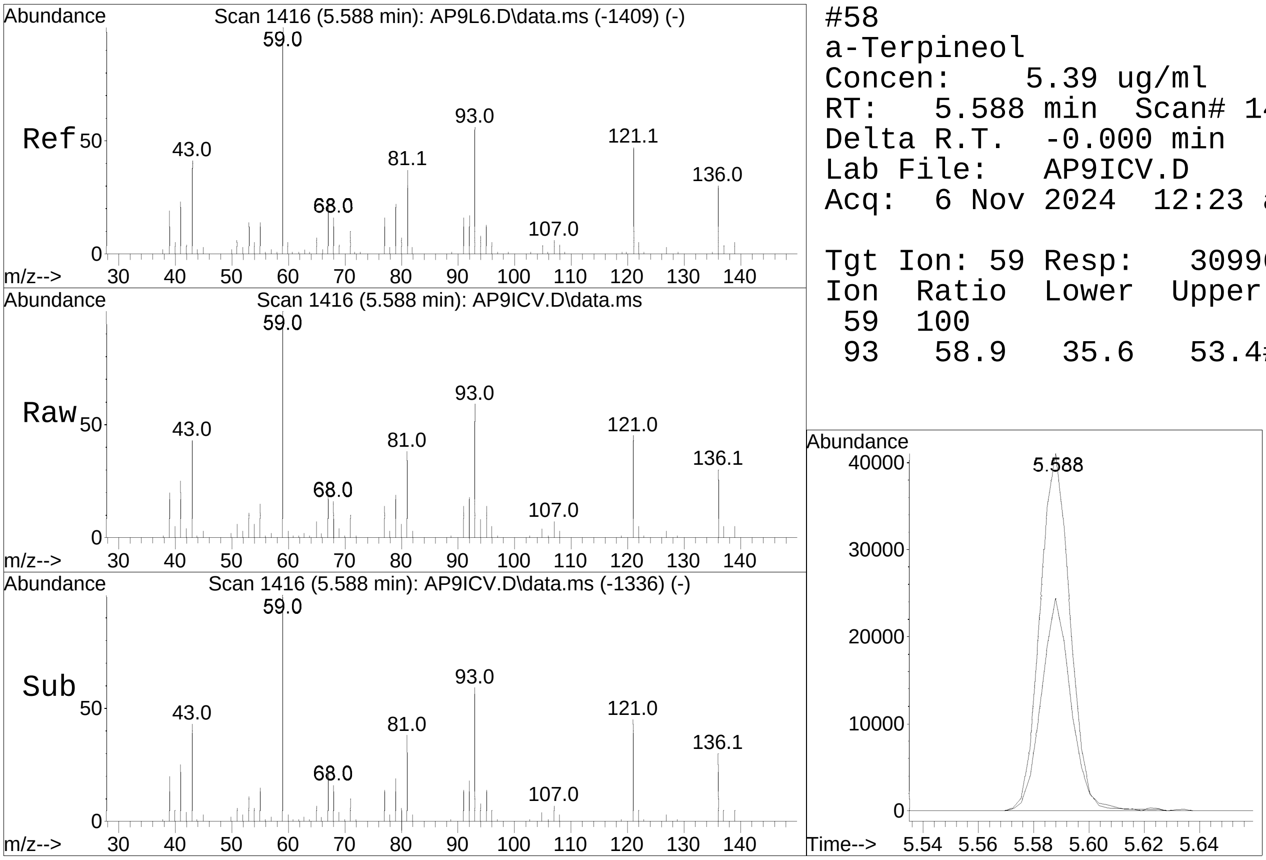



#31
2-Chloroaniline
Concen: 5.51 ug/ml
RT: 5.134 min Scan# 1270
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:127 Resp: 54178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 31.3 | 25.9 | 38.9 |
| 65 | 22.2 | 26.3 | 39.5# |

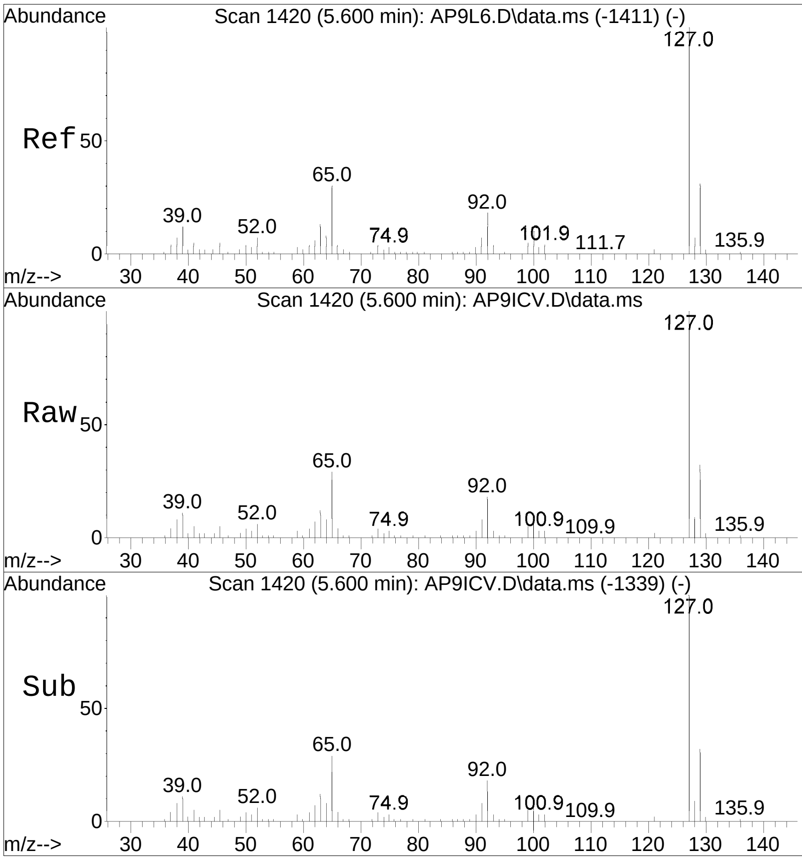





#58
a-Terpineol
Concen: 5.39 ug/ml
RT: 5.588 min Scan# 1416
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion: 59 Resp: 30996

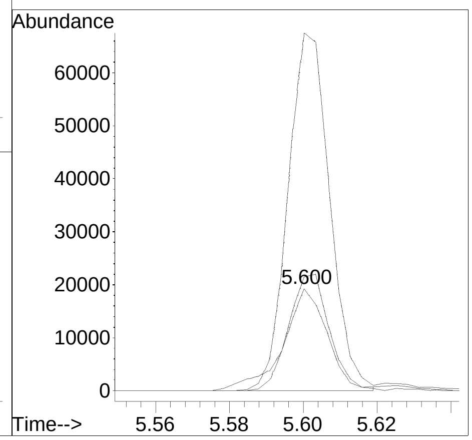
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 93 | 58.9 | 35.6 | 53.4# |

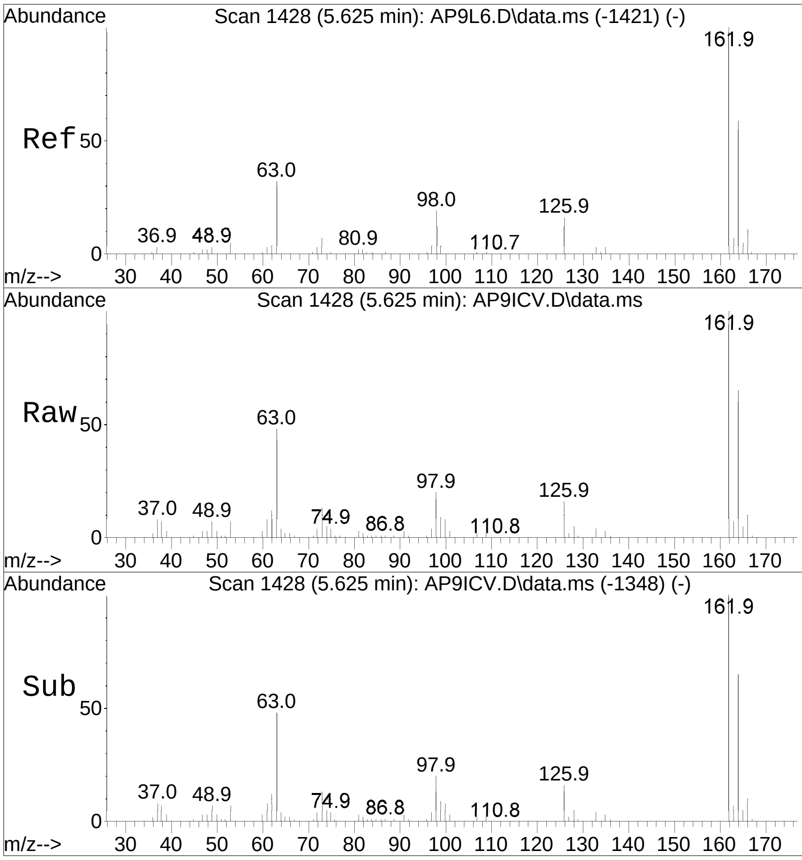



#59
3-Chloroaniline
Concen: 5.36 ug/ml
RT: 5.600 min Scan# 1420
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion: 65 Resp: 15940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 127 | 337.6 | 243.2 | 364.8 |
| 129 | 105.3 | 78.8 | 118.2 |

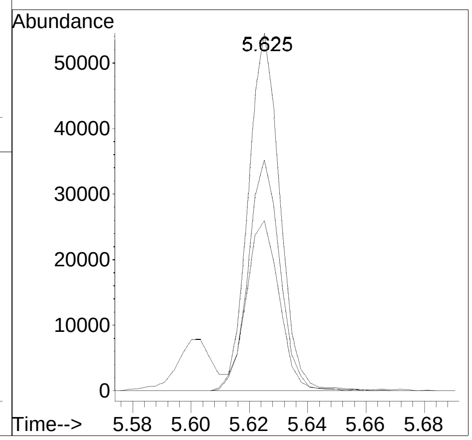


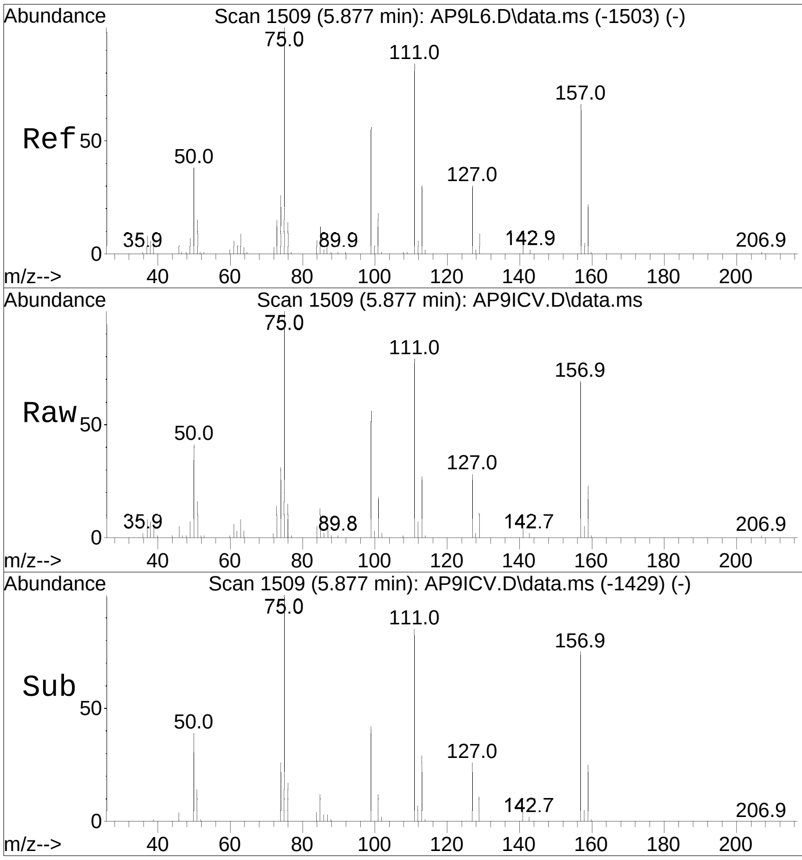



#60
2,6-Dichlorophenol
Concen: 5.35 ug/ml
RT: 5.625 min Scan# 1428
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:162 Resp: 41042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 64.6 | 51.1 | 76.7 |
| 63 | 49.9 | 60.8 | 91.2# |

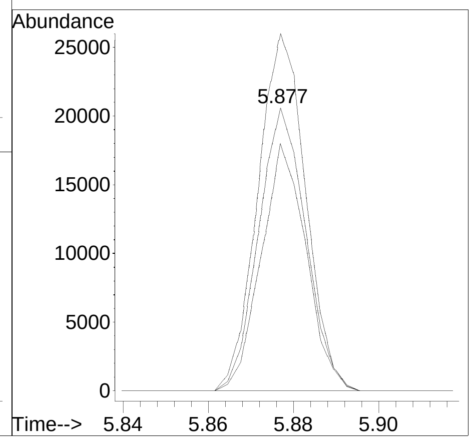


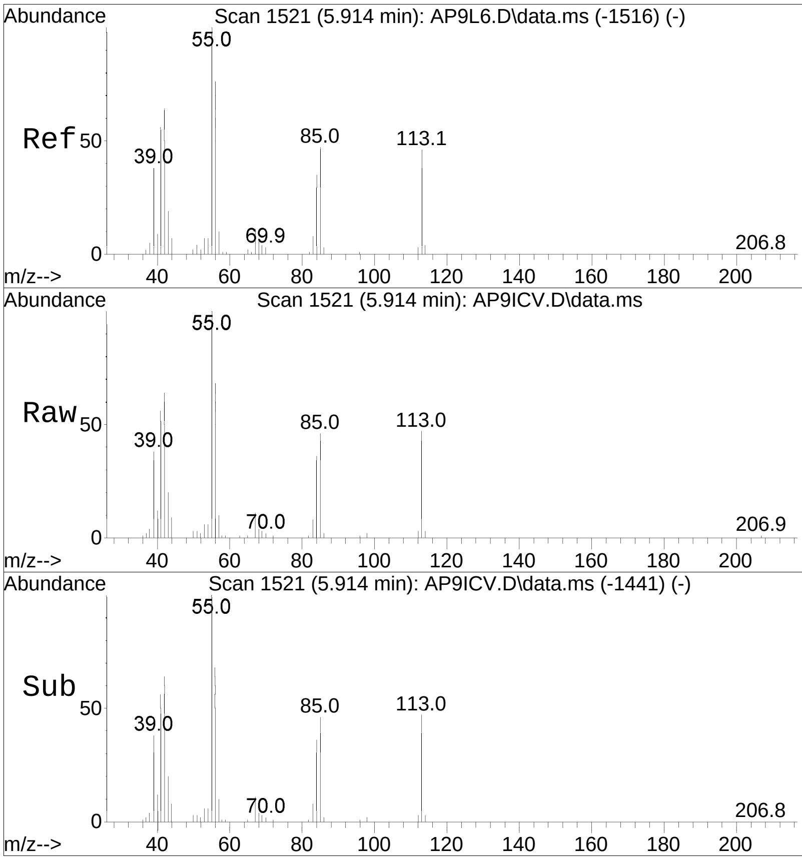



#61
1-chloro-2-nitrobenzene
Concen: 5.37 ug/ml
RT: 5.877 min Scan# 1509
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:111 Resp: 15818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 111 | 100 | | |
| 157 | 83.1 | 0.0 | 0.0# |
| 75 | 127.9 | 28.2 | 42.2# |

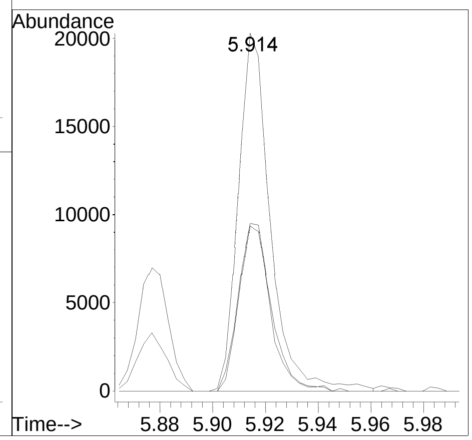


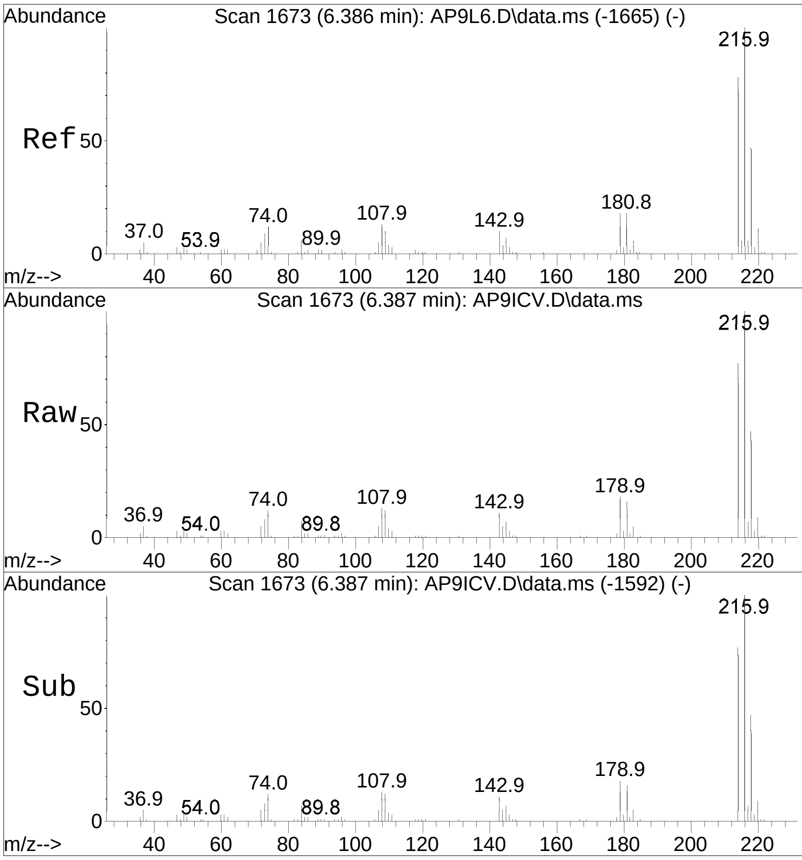



#62
Caprolactam
Concen: 5.35 ug/ml
RT: 5.914 min Scan# 1521
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion: 55 Resp: 17075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 55 | 100 | | |
| 85 | 45.5 | 19.8 | 29.6# |
| 113 | 48.9 | 29.6 | 44.4# |

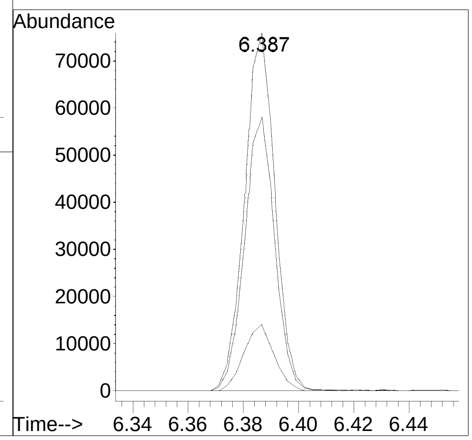


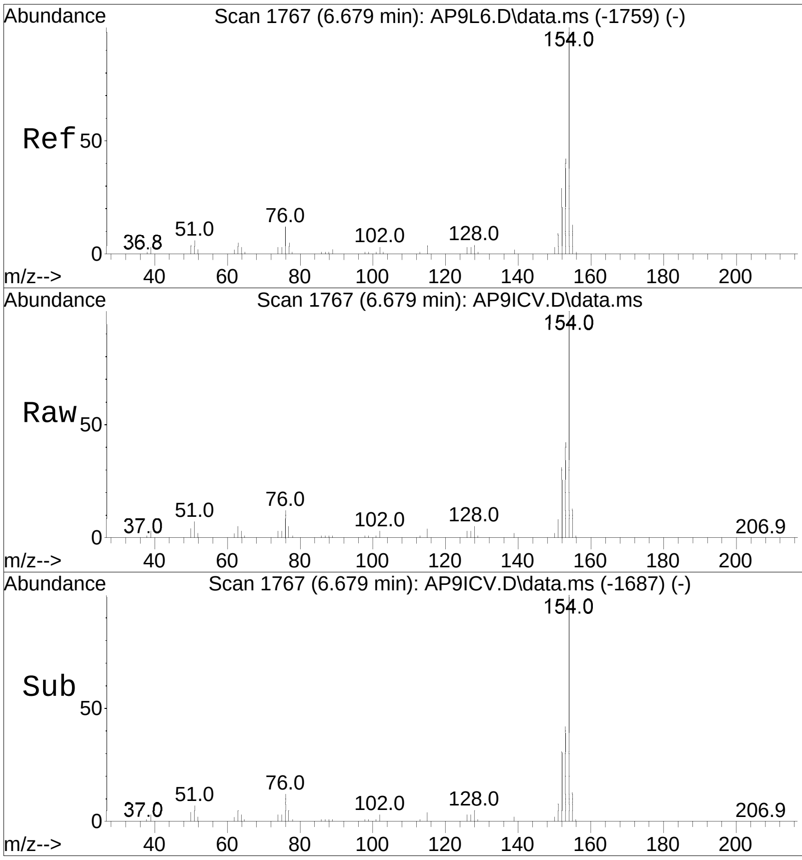



#63
1,2,4,5-Tetrachlorobenzene
Concen: 5.41 ug/ml
RT: 6.387 min Scan# 1673
Delta R.T. 0.001 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:216 Resp: 57983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 75.8 | 63.7 | 95.5 |
| 179 | 18.4 | 19.0 | 28.6# |

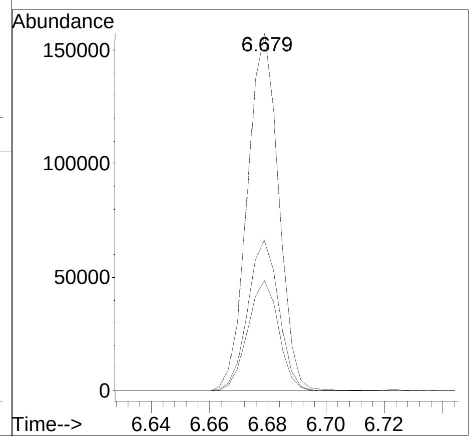


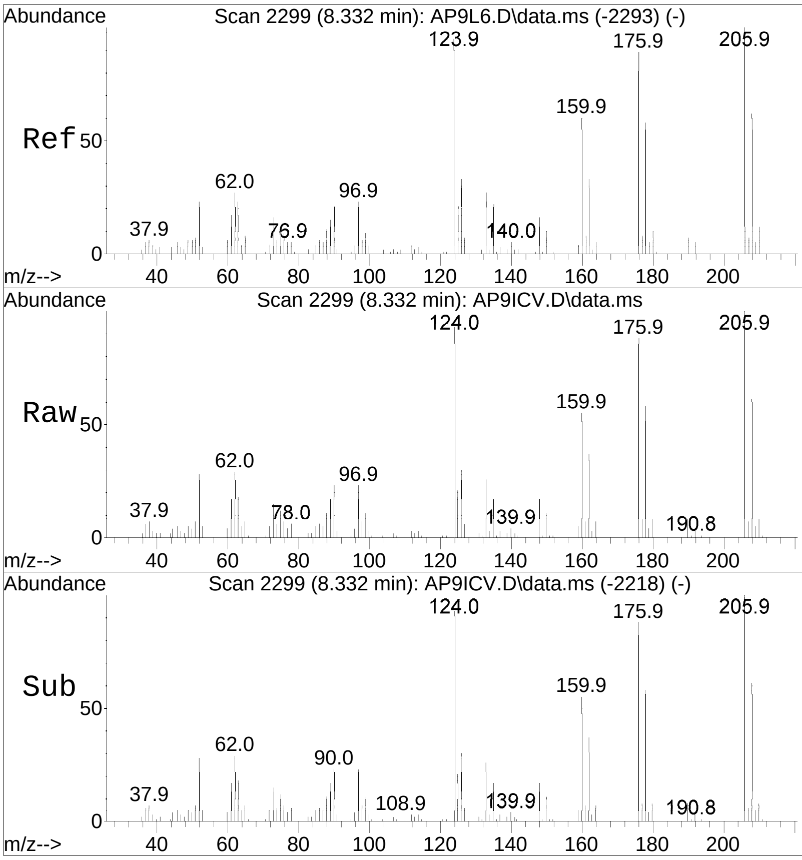



#64
Biphenyl
Concen: 5.37 ug/ml
RT: 6.679 min Scan# 1767
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:154 Resp: 117373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 41.8 | 32.3 | 48.5 |
| 152 | 30.6 | 22.5 | 33.7 |

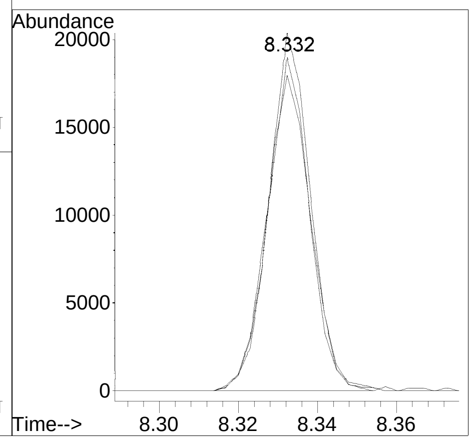


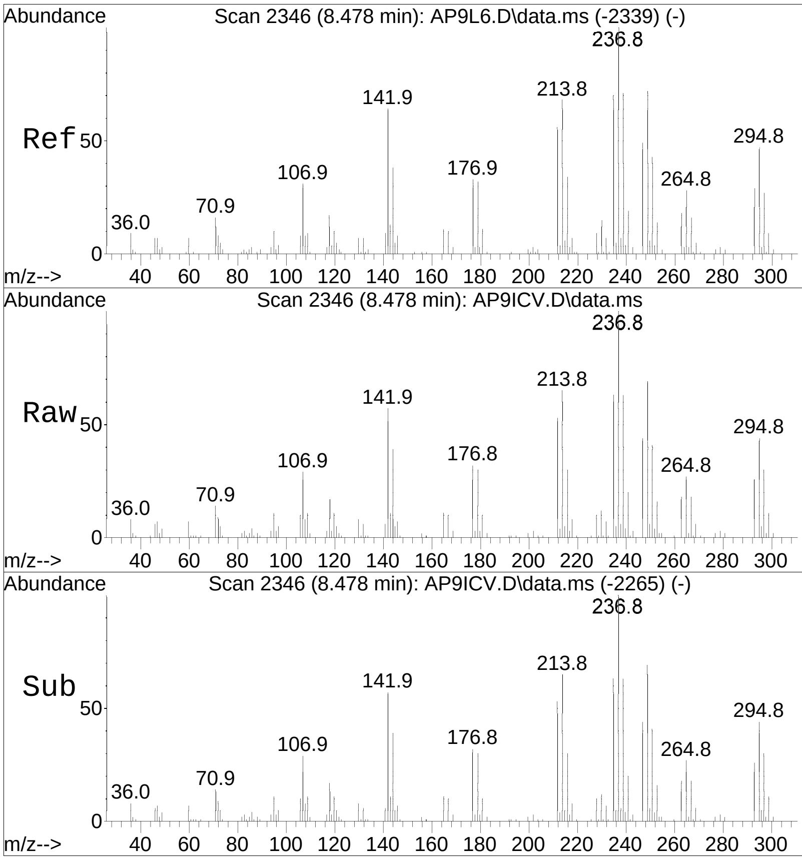



#86
Dichloran
Concen: 5.35 ug/ml
RT: 8.332 min Scan# 2299
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:206 Resp: 14931

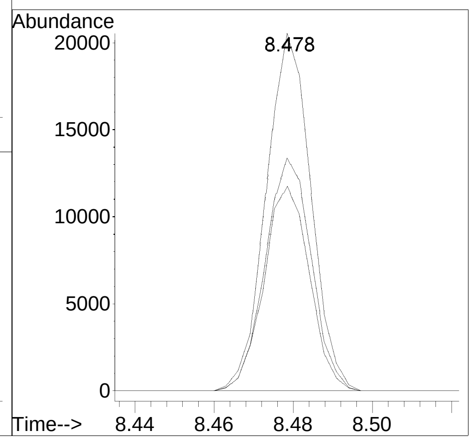
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 206 | 100 | | |
| 176 | 92.1 | 104.6 | 157.0# |
| 124 | 93.6 | 130.5 | 195.7# |

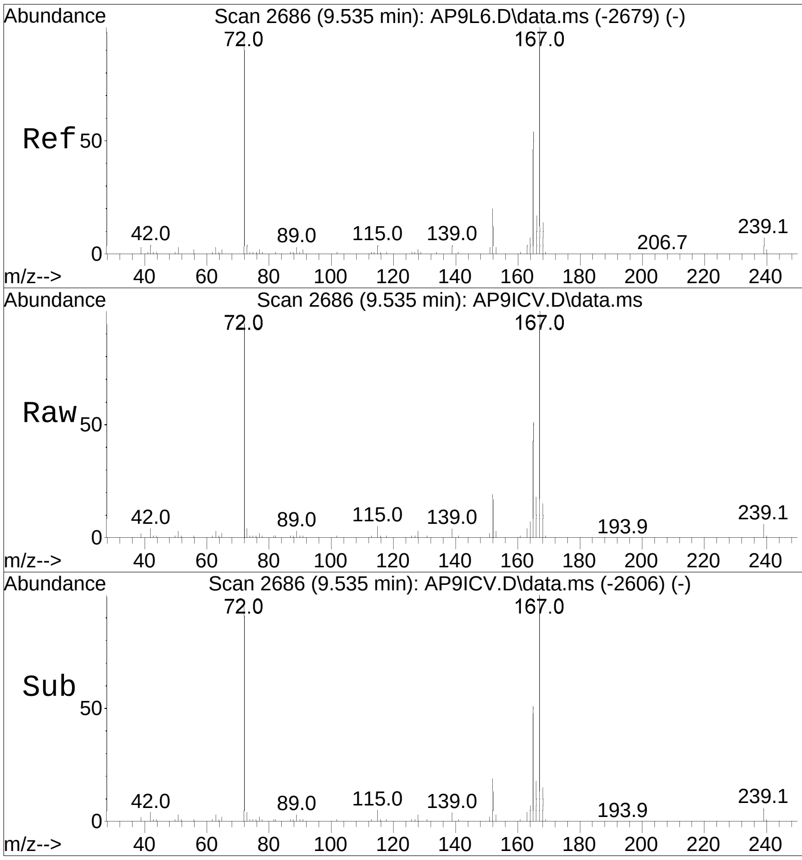





#87
Pentachloronitrobenzene
Concen: 5.23 ug/ml
RT: 8.478 min Scan# 2346
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

| Tgt Ion:237 | Resp: | | 16109 |
|---|---|---|---|
| Ion | Ratio | Lower | Upper |
| 237 | 100 | | |
| 142 | 58.5 | 77.0 | 115.4# |
| 214 | 67.2 | 58.2 | 87.4 |

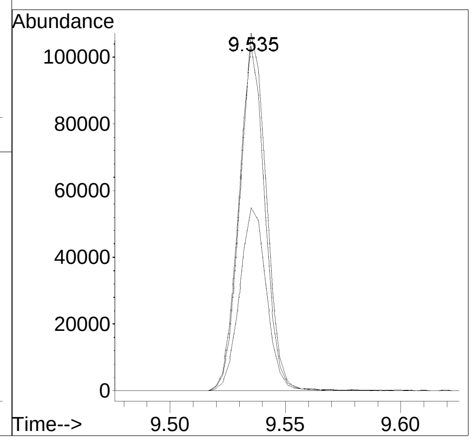





#101
Diphenamid
Concen: 5.61 ug/ml
RT: 9.535 min Scan# 2686
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:167 Resp: 84796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 72 | 95.3 | 109.7 | 164.5# |
| 165 | 52.6 | 41.8 | 62.6 |



# Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : AP9ICV.D                   Operator    : Dakota:HNY
Date Inj'd  : 11/6/2024 12:23 am         Instrument  : Dakota
Sample      : CQICV2,32,,AP9ICV Lot# 111Quant Date  : 11/6/2024 10:19 am
```

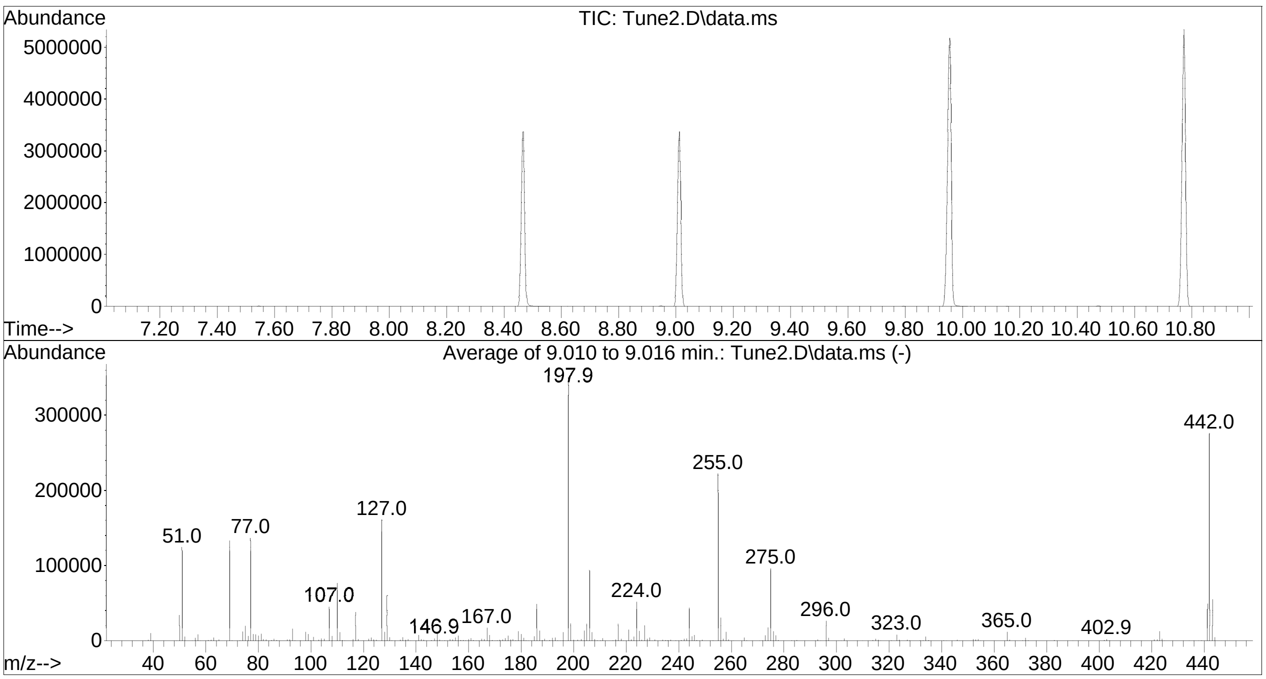
There are no manual integrations or false positives in this file.

DFTPP

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : Tune2.D
Acq On : 6 Nov 2024 12:46 am
Operator : Dakota:HNY
Sample : Tune2 Lot # 11144
Misc : WG1994500
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Nov 11 15:34:18 2024



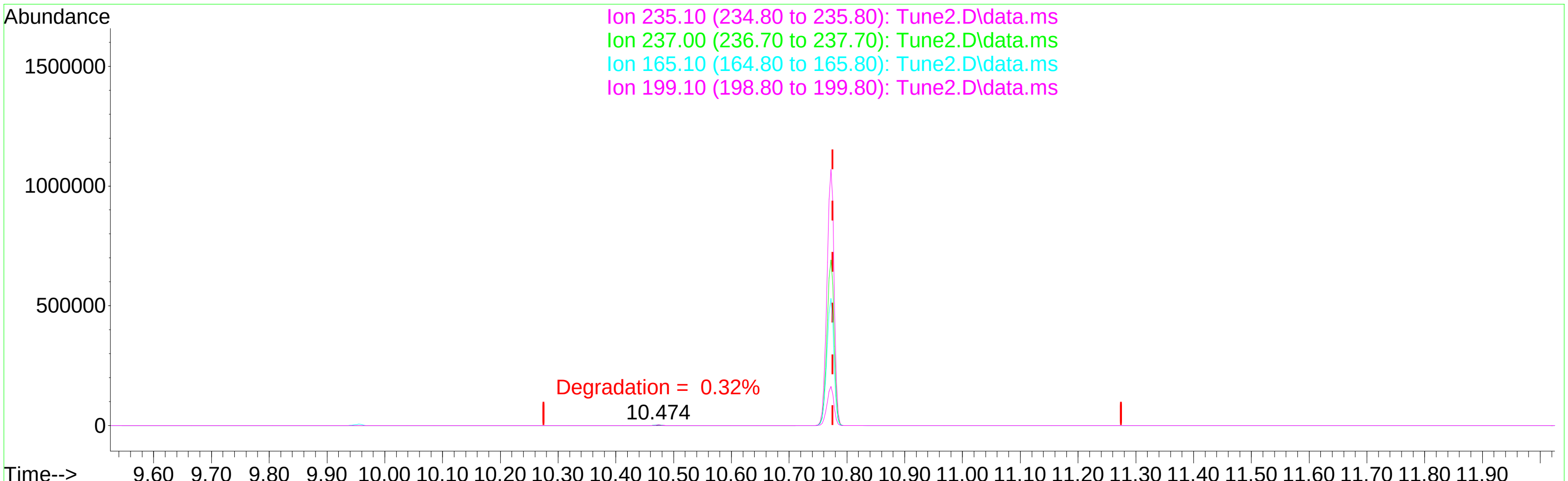

Spectrum Information: Average of 9.010 to 9.016 min.

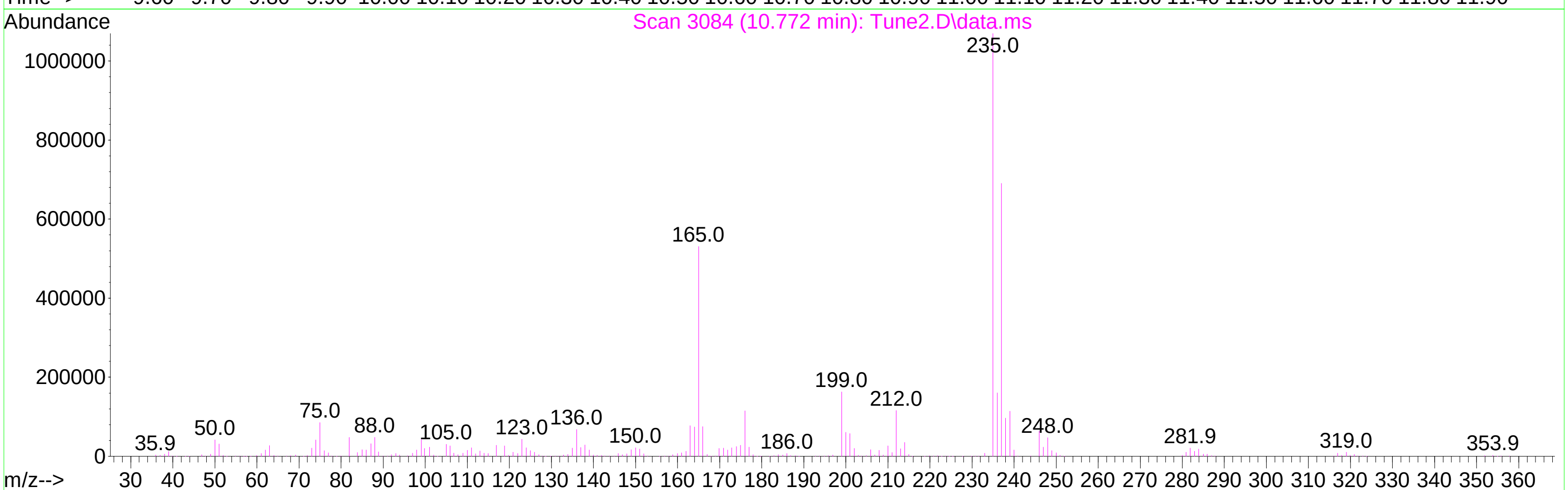
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 35.4 | 124264 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 69 | 69 | 100 | 100 | 100.0 | 132925 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 743 | PASS |
| 127 | 198 | 10 | 80 | 45.9 | 160797 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 350613 | PASS |
| 199 | 198 | 5 | 9 | 6.6 | 23221 | PASS |
| 275 | 198 | 10 | 60 | 27.4 | 95952 | PASS |
| 365 | 198 | 1 | 100 | 3.3 | 11616 | PASS |
| 441 | 442 | 0.01 | 24 | 17.8 | 49075 | PASS |
| 442 | 198 | 50 | 100 | 78.8 | 276117 | PASS |
| 443 | 442 | 15 | 24 | 19.8 | 54664 | PASS |

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : Tune2.D
Acq On : 6 Nov 2024 12:46 am
Operator : Dakota:HNY
Sample : Tune2 Lot # 11144
Misc : WG1994500
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Nov 06 05:42:03 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 01 13:11:54 2024
Response via : Initial Calibration




CHROMtools™ [Tune2 Lot # 11144]

(6) DDT (T)

10.772min (-0.003) 153.25

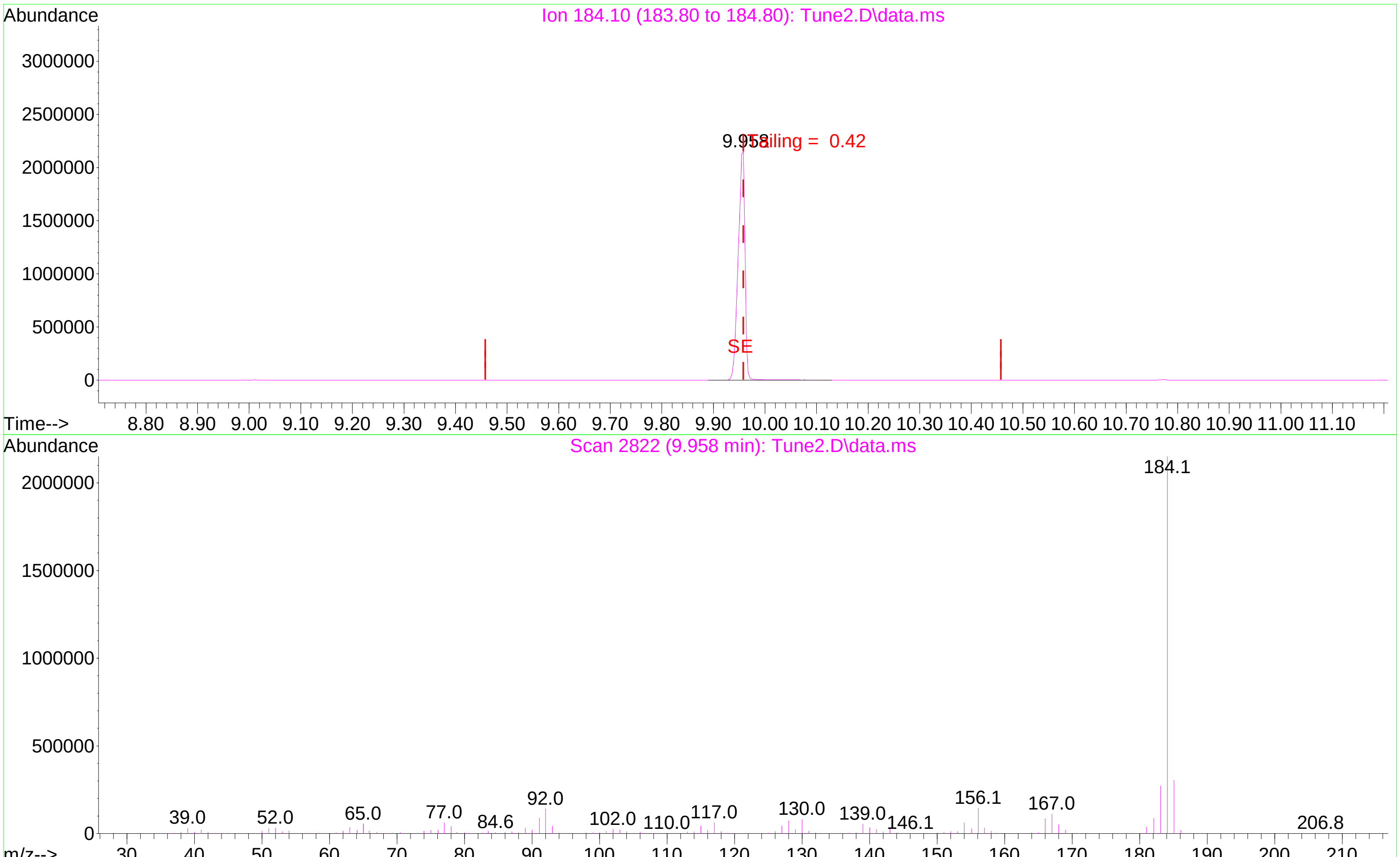
response 934167

| Ion | Exp% | Act% |
|---|---|---|
| 235.10 | 100.00 | 100.00 |
| 237.00 | 63.90 | 64.21 |
| 165.10 | 48.70 | 47.94 |
| 199.10 | 15.80 | 14.64 |

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : Tune2.D
Acq On : 6 Nov 2024 12:46 am
Operator : Dakota:HNY
Sample : Tune2 Lot # 11144
Misc : WG1994500
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Nov 06 05:42:03 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 01 13:11:54 2024
Response via : Initial Calibration




CHROMtools™ [Tune2 Lot # 11144]

(3) Benzidine (T)

9.958min (-0.000) 193.14

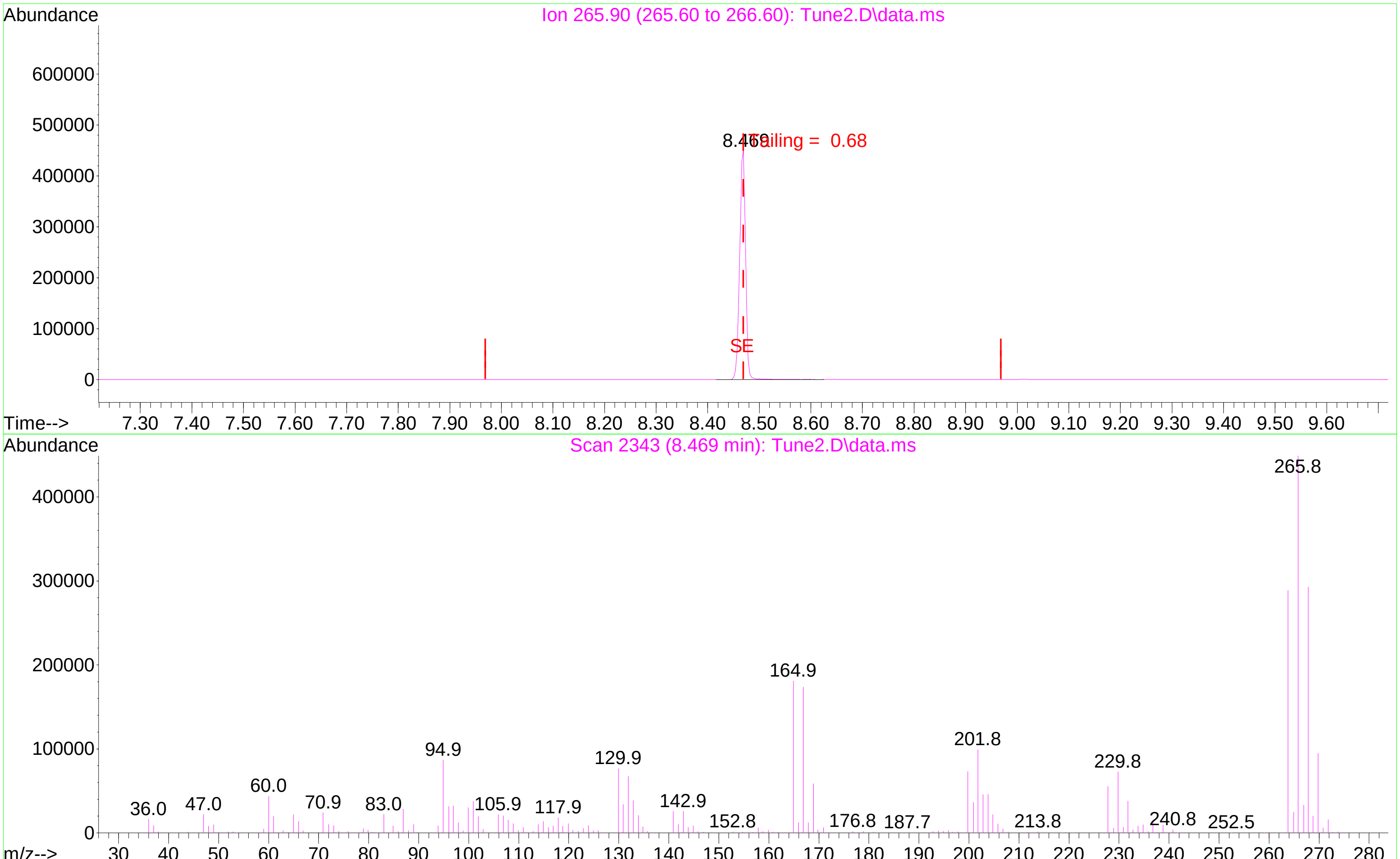
response 1966199

| 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\241105RVTICAL\
Data File : Tune2.D
Acq On : 6 Nov 2024 12:46 am
Operator : Dakota:HNY
Sample : Tune2 Lot # 11144
Misc : WG1994500
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Nov 06 05:42:03 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 01 13:11:54 2024
Response via : Initial Calibration




CHROMtools™ [Tune2 Lot # 11144]

(1) Pentachlorophenol (T)

8.469min (+ 0.000) 171.00

response 359167

| 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\241105RVTICAL\
Data File : ADPL9.D
Acq On    :  6 Nov 2024   1:10 am
Operator  : Dakota:HNY
Sample    : IL2,32,,ADPL50 Lot# 11129
Misc      : WG1994500
ALS Vial  : 21   Sample Multiplier: 1

Quant Time: Nov 06 09:33:16 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List     : ADPical_REV3 - ADP sublist
```

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 32) IS3_1,4-Dichlorobenzen... | 4.283 | 152 | 28999 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 27034 | | | Recovery = | 107.27% | |
| 88) IS3_Acenaphthene-d10 | 7.210 | 164 | 65804 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 60553 | | | Recovery = | 108.67% | |
| 102) IS3_Phenanthrene-d10 | 8.622 | 188 | 145427 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 133879 | | | Recovery = | 108.63% | |
| System Monitoring Compounds | | | | | |
| Target Compounds | | | | | Qvalue |
| 33) 1,4-Dioxane | 1.392 | 88 | 141959 | 49.972 ug/ml# | 86 |
| 34) n-Nitrosodiethylamine | 3.204 | 102 | 152387 | 54.276 ug/ml# | 58 |
| 35) n-Decane | 4.186 | 57 | 401118 | 48.893 ug/ml# | 31 |
| 36) n-Nitrosopyrrolidine | 4.668 | 100 | 194528 | 56.865 ug/ml# | 76 |
| 89) Atrazine | 8.432 | 200 | 329261 | 44.732 ug/ml | 91 |
| 103) n-Octadecane | 8.637 | 57 | 671578 | 53.256 ug/ml# | 1 |
| 104) Parathion | 9.423 | 109 | 209761 | 74.031 ug/ml | 95 |
| 105) 3,3'-Dimethylbenzidine | 10.670 | 212 | 1582279 | 46.887 ug/ml | 99 |

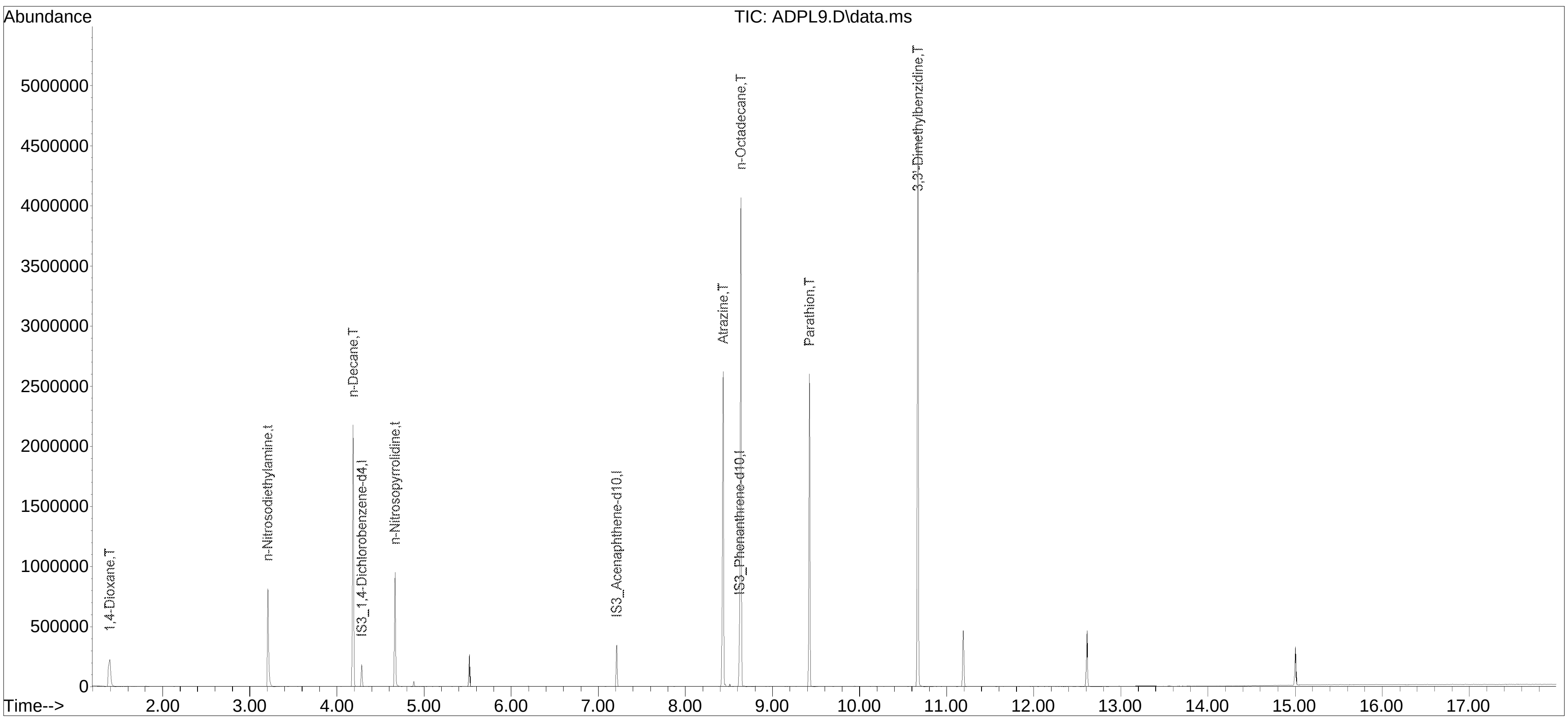
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL9.D
Acq On : 6 Nov 2024 1:10 am
Operator : Dakota:HNY
Sample : IL2,32,,ADPL50 Lot# 11129
Misc : WG1994500
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 06 09:33:16 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•



Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : I:\8270\Dakota\241105RVTICQ | Method | : FS241105RVT_Dakota.m |
| Data File | : ADPL9.D | Operator | : Dakota:HNY |
| Date Inj'd | : 11/6/2024 1:10 am | Instrument | : Dakota |
| Sample | : IL2,32,,ADPL50 Lot# 11129 | Quant Date | : 11/6/2024 8:37 am |

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL8.D
Acq On : 6 Nov 2024 1:33 am
Operator : Dakota:HNY
Sample : IL3,32,,ADPL25 Lot# 11130
Misc : WG1994500
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 06 09:32:37 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List : ADPical_REV3 - ADP sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 32) IS3_1,4-Dichlorobenzen... | 4.282 | 152 | 29582 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 27034 | | | Recovery = | 109.43% | |
| 88) IS3_Acenaphthene-d10 | 7.210 | 164 | 67966 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 60553 | | | Recovery = | 112.24% | |
| 102) IS3_Phenanthrene-d10 | 8.624 | 188 | 154856 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 133879 | | | Recovery = | 115.67% | |
| System Monitoring Compounds | | | | | |
| Target Compounds | | | | | Qvalue |
| 33) 1,4-Dioxane | 1.395 | 88 | 75610 | 26.091 ug/ml# | 85 |
| 34) n-Nitrosodiethylamine | 3.207 | 102 | 80879 | 28.239 ug/ml# | 59 |
| 35) n-Decane | 4.186 | 57 | 214035 | 25.575 ug/ml# | 31 |
| 36) n-Nitrosopyrrolidine | 4.665 | 100 | 101610 | 29.118 ug/ml# | 75 |
| 89) Atrazine | 8.429 | 200 | 170370 | 22.409 ug/ml | 91 |
| 103) n-Octadecane | 8.637 | 57 | 356815 | 26.572 ug/ml# | 1 |
| 104) Parathion | 9.423 | 109 | 102258 | 33.893 ug/ml | 94 |
| 105) 3,3'-Dimethylbenzidine | 10.666 | 212 | 818111 | 22.767 ug/ml | 99 |

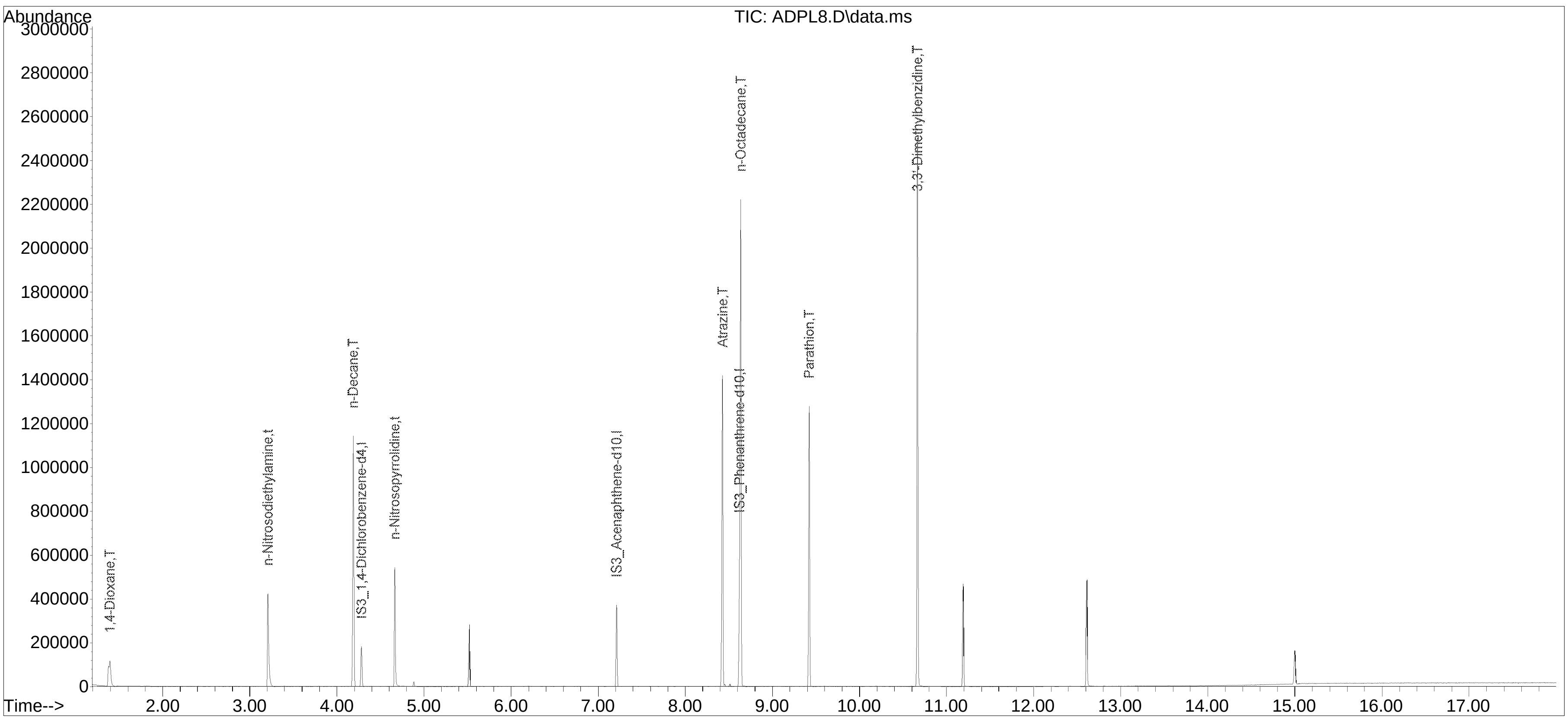
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL8.D
Acq On : 6 Nov 2024 1:33 am
Operator : Dakota:HNY
Sample : IL3,32,,ADPL25 Lot# 11130
Misc : WG1994500
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 06 09:32:37 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•



Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ADPL8.D                    Operator    : Dakota:HNY
Date Inj'd  : 11/6/2024  1:33 am         Instrument  : Dakota
Sample      : IL3,32,,ADPL25 Lot# 11130 Quant Date  : 11/6/2024  8:37 am
```

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

Quantitation Report (QT Reviewed)

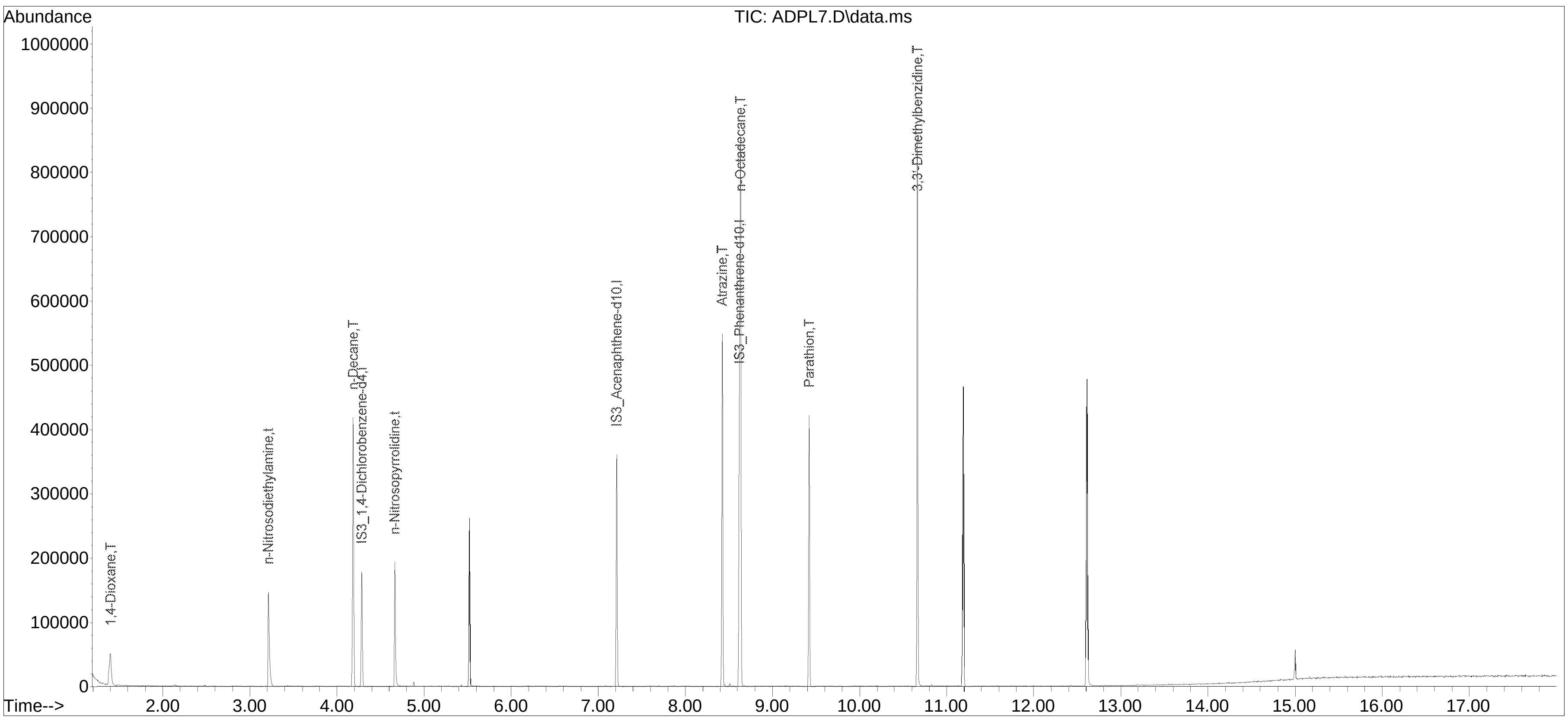
```
Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL7.D
Acq On    :  6 Nov 2024   1:56 am
Operator  : Dakota:HNY
Sample    : IL4,32,,ADPL10 Lot# 11131
Misc      : WG1994500
ALS Vial  : 23   Sample Multiplier: 1

Quant Time: Nov 06 09:32:07 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List     : ADPical_REV3 - ADP sublist

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
  ------------------------------------------------------------------------
  Internal Standards
 32) IS3_1,4-Dichlorobenzen...   4.282  152     28322     4.000 ug/ml    0.00
    Standard Area 1 = 27034                Recovery   =  104.76%
 88) IS3_Acenaphthene-d10        7.210  164     67913     4.000 ug/ml    0.00
    Standard Area 1 = 60553                Recovery   =  112.15%
102) IS3_Phenanthrene-d10        8.621  188    151398     4.000 ug/ml    0.00
    Standard Area 1 = 133879                Recovery   =  113.09%

  System Monitoring Compounds

  Target Compounds                                                 Qvalue
 33) 1,4-Dioxane                 1.401   88      28296    10.199 ug/ml#    85
 34) n-Nitrosodiethylamine       3.213  102      29305    10.687 ug/ml#    59
 35) n-Decane                    4.186   57      76941     9.603 ug/ml#    29
 36) n-Nitrosopyrrolidine        4.665  100      36910    11.048 ug/ml#    74
 89) Atrazine                    8.422  200      59430     7.823 ug/ml     91
103) n-Octadecane                8.634   57     131320    10.003 ug/ml#     1
104) Parathion                   9.420  109      32544    11.033 ug/ml     94
105) 3,3'-Dimethylbenzidine     10.663  212     277721     7.905 ug/ml     99
  ------------------------------------------------------------------------

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL7.D
Acq On : 6 Nov 2024 1:56 am
Operator : Dakota:HNY
Sample : IL4,32,,ADPL10 Lot# 11131
Misc : WG1994500
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 06 09:32:07 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•




FS241105RVT_Dakota.m Tue Nov 12 12:25:31 2024 Page: 2

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ADPL7.D                      Operator    : Dakota:HNY
Date Inj'd  : 11/6/2024  1:56 am           Instrument  : Dakota
Sample      : IL4,32,,ADPL10 Lot# 11131 Quant Date  : 11/6/2024  8:37 am
```

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

Quantitation Report (QT Reviewed)

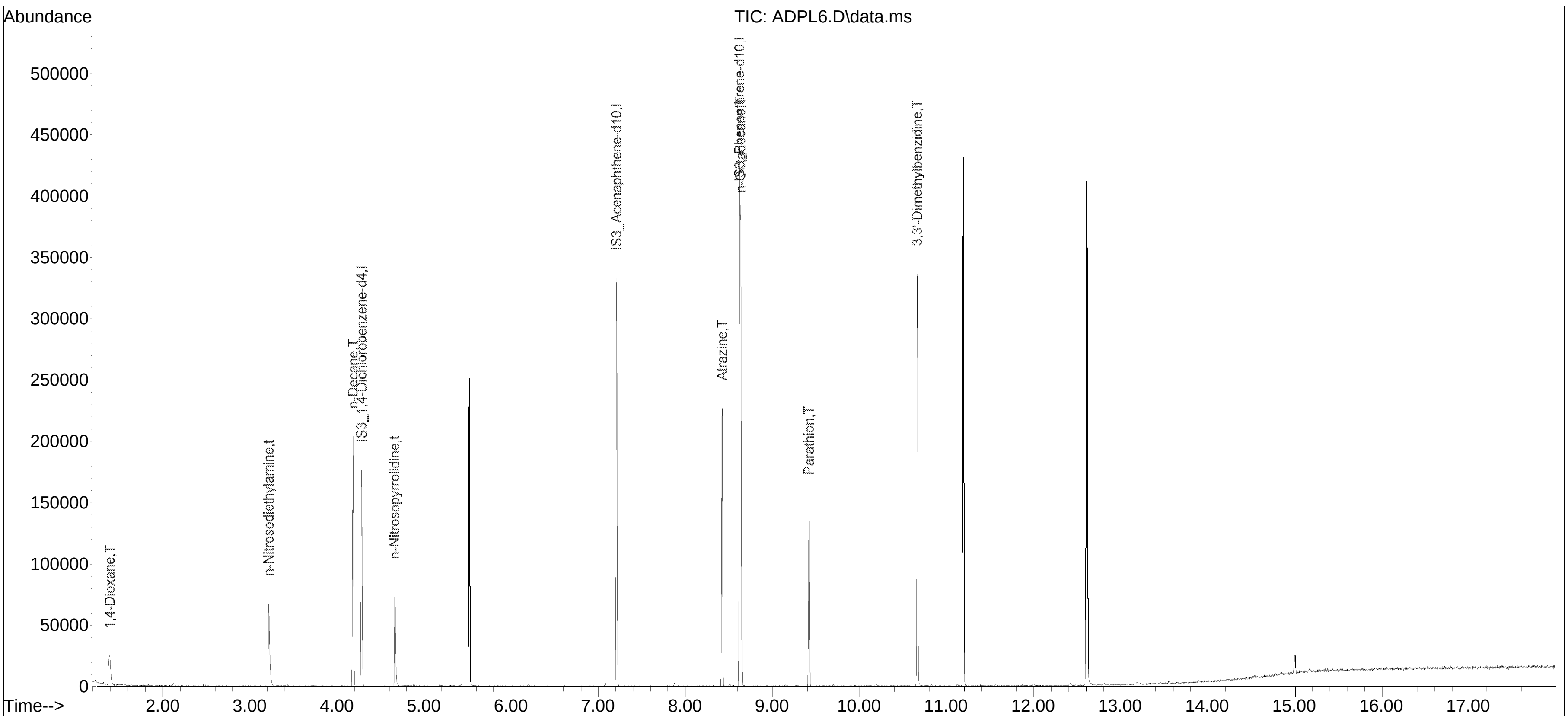
```
Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL6.D
Acq On    :  6 Nov 2024   2:20 am
Operator  : Dakota:HNY
Sample    : IL5,32,,ADPL5 Lot# 11132
Misc      : WG1994500
ALS Vial  : 24   Sample Multiplier: 1

Quant Time: Nov 06 09:31:35 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List     : ADPical_REV3 - ADP sublist

       Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 --------------------------------------------------------------------------
 Internal Standards
 32) IS3_1,4-Dichlorobenzen...   4.282  152     27034     4.000 ug/ml    0.00
    Standard Area 1 = 27034                 Recovery   =  100.00%
 88) IS3_Acenaphthene-d10        7.210  164     60553     4.000 ug/ml    0.00
    Standard Area 1 = 60553                 Recovery   =  100.00%
102) IS3_Phenanthrene-d10        8.621  188    133879     4.000 ug/ml    0.00
    Standard Area 1 = 133879                 Recovery   =  100.00%

 System Monitoring Compounds

 Target Compounds                                                  Qvalue
 33) 1,4-Dioxane                 1.395   88     13637      5.149 ug/ml#    86
 34) n-Nitrosodiethylamine       3.216  102     13557      5.180 ug/ml#    56
 35) n-Decane                    4.186   57     37066      4.846 ug/ml#    31
 36) n-Nitrosopyrrolidine        4.665  100     16431      5.152 ug/ml#    69
 89) Atrazine                    8.422  200     25869      3.819 ug/ml     92
103) n-Octadecane                8.634   57     55610      4.790 ug/ml#     1
104) Parathion                   9.417  109     12413      4.759 ug/ml     88
105) 3,3'-Dimethylbenzidine     10.660  212    108634      3.497 ug/ml     99
 --------------------------------------------------------------------------

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

Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL6.D
Acq On    :  6 Nov 2024   2:20 am
Operator  : Dakota:HNY
Sample    : IL5,32,,ADPL5 Lot# 11132
Misc      : WG1994500
ALS Vial  : 24   Sample Multiplier: 1

Quant Time: Nov 06 09:31:35 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List     : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•



Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ADPL6.D                  Operator     : Dakota:HNY
Date Inj'd  : 11/6/2024  2:20 am       Instrument   : Dakota
Sample      : IL5,32,,ADPL5 Lot# 11132  Quant Date  : 11/6/2024  8:37 am
```

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

Quantitation Report (QT Reviewed)

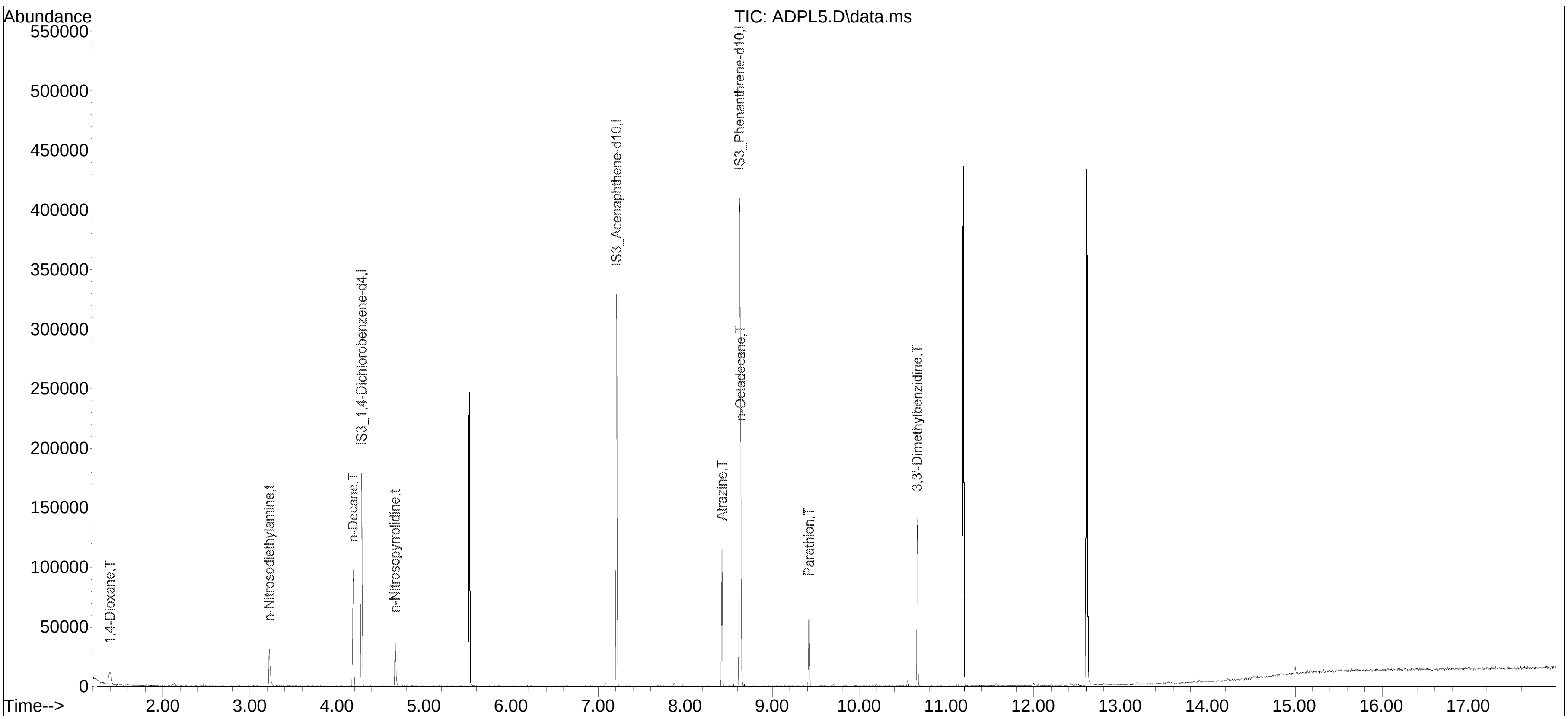
```
Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL5.D
Acq On    :  6 Nov 2024   2:43 am
Operator  : Dakota:HNY
Sample    : IL6,32,,ADPL2.5 Lot# 11133
Misc      : WG1994500
ALS Vial  : 25   Sample Multiplier: 1

Quant Time: Nov 06 09:30:48 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List     : ADPical_REV3 - ADP sublist

        Compound                    R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 32) IS3_1,4-Dichlorobenzen...   4.283  152     27964     4.000 ug/ml    0.00
    Standard Area 1 = 27034                 Recovery   =  103.44%
 88) IS3_Acenaphthene-d10        7.210  164     63394     4.000 ug/ml    0.00
    Standard Area 1 = 60553                 Recovery   =  104.69%
102) IS3_Phenanthrene-d10        8.621  188    139475     4.000 ug/ml    0.00
    Standard Area 1 = 133879                 Recovery   =  104.18%

 System Monitoring Compounds

 Target Compounds                                                  Qvalue
 33) 1,4-Dioxane                 1.395   88      6846      2.499 ug/ml#    87
 34) n-Nitrosodiethylamine       3.223  102      6674      2.465 ug/ml#    60
 35) n-Decane                    4.186   57     17770      2.246 ug/ml#    29
 36) n-Nitrosopyrrolidine        4.668  100      7709      2.337 ug/ml#    70
 89) Atrazine                    8.419  200     12402      1.749 ug/ml     90
103) n-Octadecane                8.634   57     26941      2.228 ug/ml#     1
104) Parathion                   9.417  109      5990      2.204 ug/ml     91
105) 3,3'-Dimethylbenzidine     10.660  212     47257      1.460 ug/ml     99
 ---------------------------------------------------------------------------

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL5.D
Acq On : 6 Nov 2024 2:43 am
Operator : Dakota:HNY
Sample : IL6,32,,ADPL2.5 Lot# 11133
Misc : WG1994500
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 06 09:30:48 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•



# Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ADPL5.D                    Operator    : Dakota:HNY
Date Inj'd  : 11/6/2024  2:43 am         Instrument  : Dakota
Sample      : IL6,32,,ADPL2.5 Lot# 11133Quant Date  : 11/6/2024  8:36 am
```

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

Quantitation Report (QT Reviewed)

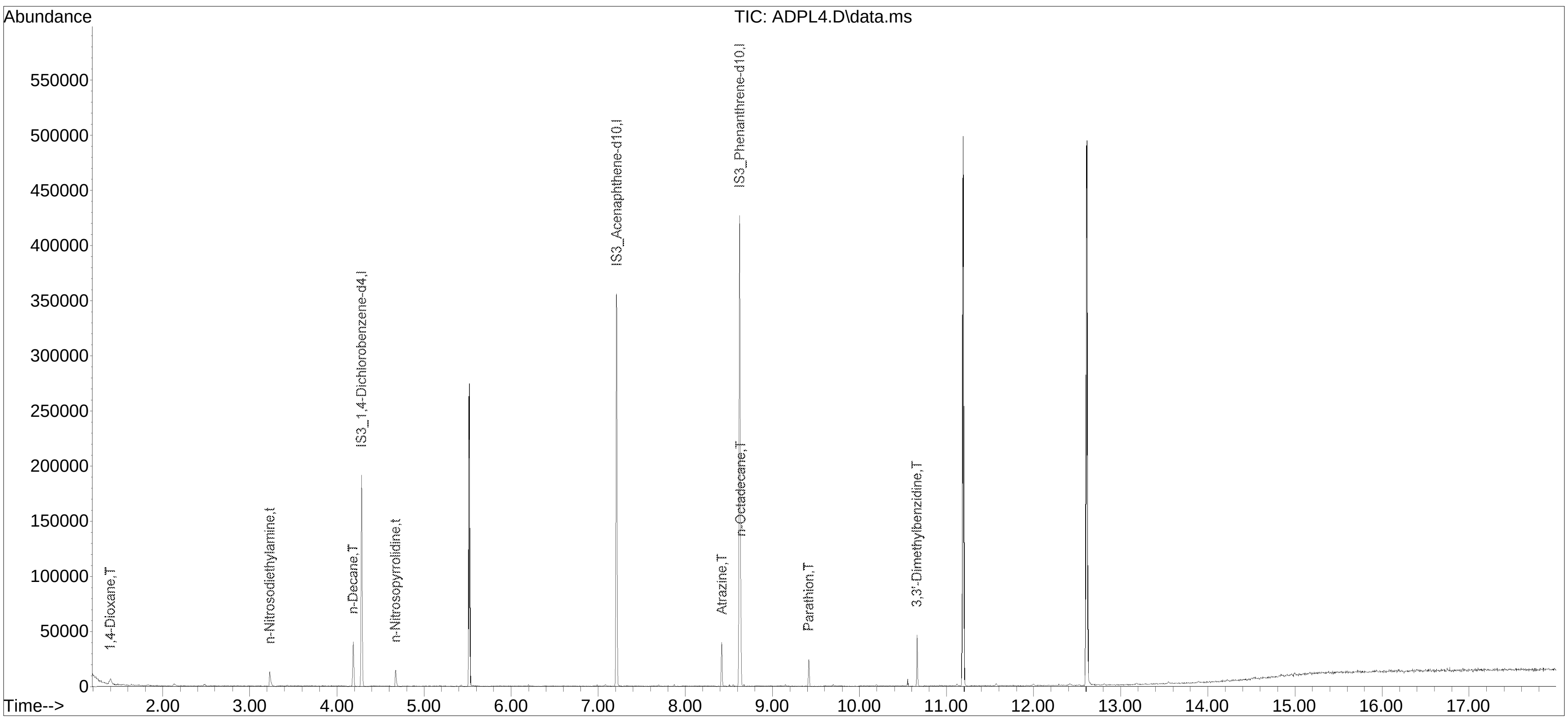
```
Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL4.D
Acq On    :  6 Nov 2024   3:07 am
Operator  : Dakota:HNY
Sample    : IL7,32,,ADPL1 Lot# 11134
Misc      : WG1994500
ALS Vial  : 26   Sample Multiplier: 1

Quant Time: Nov 06 09:30:26 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List     : ADPical_REV3 - ADP sublist

        Compound                    R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 32) IS3_1,4-Dichlorobenzen...   4.282  152     30288     4.000 ug/ml    0.00
    Standard Area 1 = 27034                Recovery   =  112.04%
 88) IS3_Acenaphthene-d10        7.210  164     68614     4.000 ug/ml    0.00
    Standard Area 1 = 60553                Recovery   =  113.31%
102) IS3_Phenanthrene-d10        8.621  188    152054     4.000 ug/ml    0.00
    Standard Area 1 = 133879                Recovery   =  113.58%

 System Monitoring Compounds

 Target Compounds                                                   Qvalue
 33) 1,4-Dioxane                 1.398   88       3010M1    1.014 ug/ml
 34) n-Nitrosodiethylamine       3.229  102       2624      0.895 ug/ml#    47
 35) n-Decane                    4.186   57       7320      0.854 ug/ml#    28
 36) n-Nitrosopyrrolidine        4.671  100       3260      0.912 ug/ml#    72
 89) Atrazine                    8.419  200       4884      0.636 ug/ml     90
103) n-Octadecane                8.634   57      11002      0.834 ug/ml#     1
104) Parathion                   9.417  109       2346      0.792 ug/ml#    80
105) 3,3'-Dimethylbenzidine     10.660  212      16174      0.458 ug/ml     97
 ---------------------------------------------------------------------------

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

Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL4.D
Acq On    :  6 Nov 2024   3:07 am
Operator  : Dakota:HNY
Sample    : IL7,32,,ADPL1 Lot# 11134
Misc      : WG1994500
ALS Vial  : 26   Sample Multiplier: 1

Quant Time: Nov 06 09:30:26 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

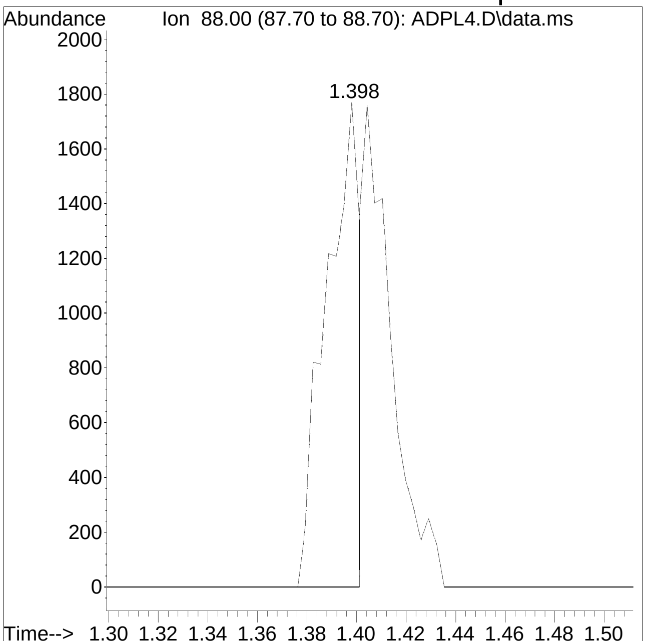
Sub List     : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•

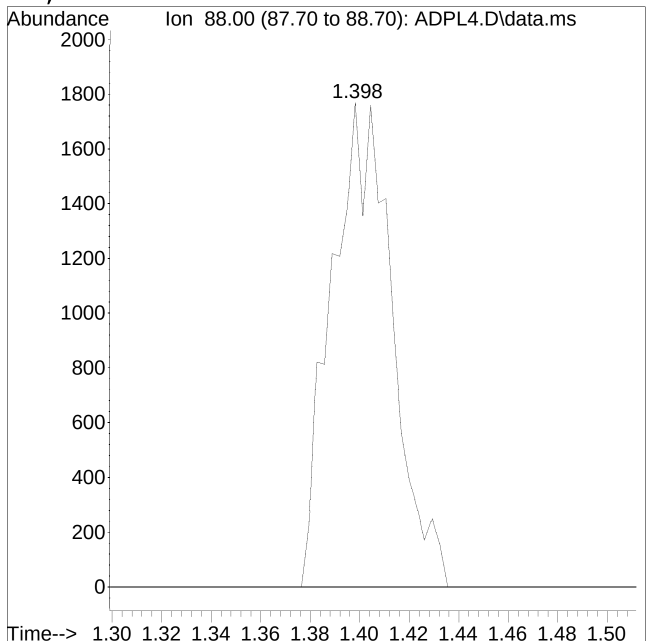


Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : I:\8270\Dakota\241105RVTICQ | Method | : FS241105RVT_Dakota.m |
| Data File | : ADPL4.D | Operator | : Dakota:HNY |
| Date Inj'd | : 11/6/2024 3:07 am | Instrument | : Dakota |
| Sample | : IL7,32,,ADPL1 Lot# 11134 | Quant Date | : 11/6/2024 8:36 am |

Compound #33: 1,4-Dioxane




Original Peak Response = 1639

Manual Peak Response = 3010 M1

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

Quantitation Report    (QT Reviewed)

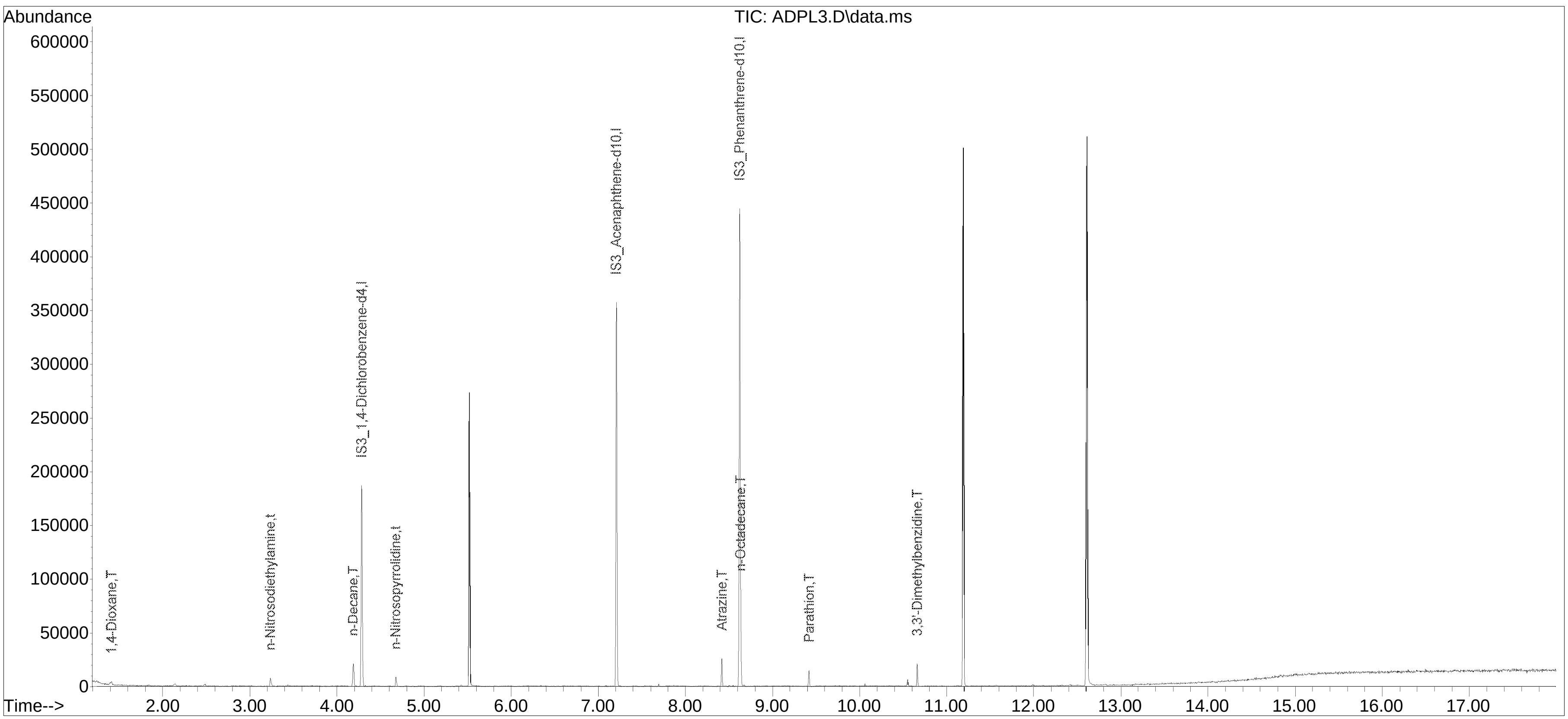
```
Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL3.D
Acq On    :  6 Nov 2024   3:30 am
Operator  : Dakota:HNY
Sample    : IL8,32,,ADPL0.5 Lot# 11135
Misc      : WG1994500
ALS Vial  : 27   Sample Multiplier: 1

Quant Time: Nov 06 09:29:58 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List     : ADPical_REV3 - ADP sublist

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 --------------------------------------------------------------------------
 Internal Standards
 32) IS3_1,4-Dichlorobenzen...   4.283  152     29927     4.000 ug/ml    0.00
    Standard Area 1 = 27034                 Recovery   =  110.70%
 88) IS3_Acenaphthene-d10        7.207  164     68245     4.000 ug/ml    0.00
    Standard Area 1 = 60553                 Recovery   =  112.70%
102) IS3_Phenanthrene-d10        8.621  188    156900     4.000 ug/ml    0.00
    Standard Area 1 = 133879                 Recovery   =  117.20%

 System Monitoring Compounds

 Target Compounds                                                 Qvalue
 33) 1,4-Dioxane                 1.411   88       1504M1    0.513 ug/ml
 34) n-Nitrosodiethylamine       3.235  102       1392      0.480 ug/ml#    26
 35) n-Decane                    4.186   57       4118      0.486 ug/ml#    27
 36) n-Nitrosopyrrolidine        4.674  100       1725      0.489 ug/ml#    56
 89) Atrazine                    8.419  200       3137      0.411 ug/ml     91
103) n-Octadecane                8.634   57       6958      0.511 ug/ml#     1
104) Parathion                   9.420  109       1494      0.489 ug/ml     91
105) 3,3'-Dimethylbenzidine     10.660  212       8441      0.232 ug/ml     96
 --------------------------------------------------------------------------

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

Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL3.D
Acq On    :  6 Nov 2024   3:30 am
Operator  : Dakota:HNY
Sample    : IL8,32,,ADPL0.5 Lot# 11135
Misc      : WG1994500
ALS Vial  : 27   Sample Multiplier: 1

Quant Time: Nov 06 09:29:58 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

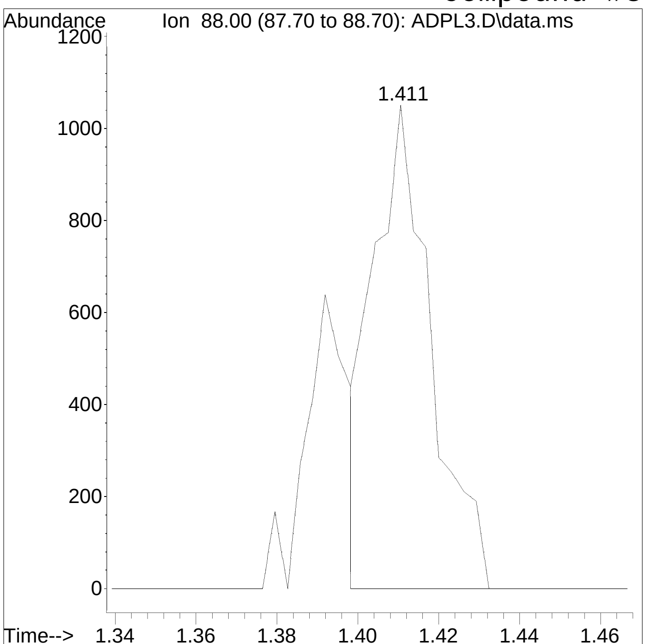
Sub List     : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•

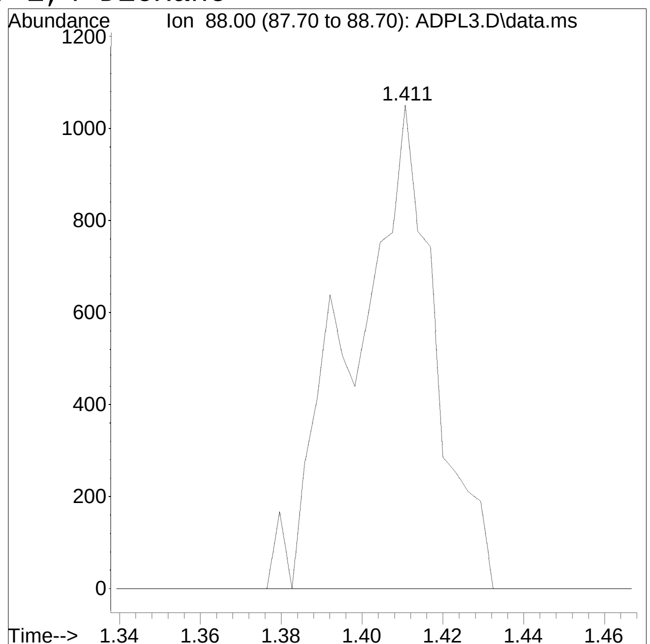


Manual Integration Report

```
Data Path    : I:\8270\Dakota\241105RVTICQMethod      : FS241105RVT_Dakota.m
Data File    : ADPL3.D                     Operator    : Dakota:HNY
Date Inj'd   : 11/6/2024  3:30 am          Instrument  : Dakota
Sample       : IL8,32,,ADPL0.5 Lot# 11135Quant Date  : 11/6/2024  8:36 am
```

Compound #33: 1,4-Dioxane




Original Peak Response = 1050    Manual Peak Response = 1504 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL2.D
Acq On : 6 Nov 2024 3:53 am
Operator : Dakota:HNY
Sample : IL9,32,,ADPL0.2 Lot# 11136
Misc : WG1994500
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 06 09:28:51 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List : ADPical_REV3 - ADP sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 32) IS3_1,4-Dichlorobenzen... | 4.282 | 152 | 29865 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 27034 | | | Recovery = | 110.47% | |
| 88) IS3_Acenaphthene-d10 | 7.210 | 164 | 67326 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 60553 | | | Recovery = | 111.19% | |
| 102) IS3_Phenanthrene-d10 | 8.621 | 188 | 154573 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 133879 | | | Recovery = | 115.46% | |
| System Monitoring Compounds | | | | | |
| Target Compounds | | | | | Qvalue |
| 33) 1,4-Dioxane | 1.411 | 88 | 377M2 | 0.129 ug/ml | |
| 34) n-Nitrosodiethylamine | 3.244 | 102 | 521 | 0.180 ug/ml# | 29 |
| 35) n-Decane | 4.186 | 57 | 1604 | 0.190 ug/ml# | 29 |
| 36) n-Nitrosopyrrolidine | 4.680 | 100 | 607 | 0.172 ug/ml# | 44 |
| 89) Atrazine | 8.416 | 200 | 1084 | 0.144 ug/ml# | 33 |
| 103) n-Octadecane | 8.634 | 57 | 2734 | 0.204 ug/ml# | 1 |
| 104) Parathion | 9.420 | 109 | 542 | 0.180 ug/ml# | 79 |
| 105) 3,3'-Dimethylbenzidine | 10.657 | 212 | 909 | 0.025 ug/ml# | 62 |

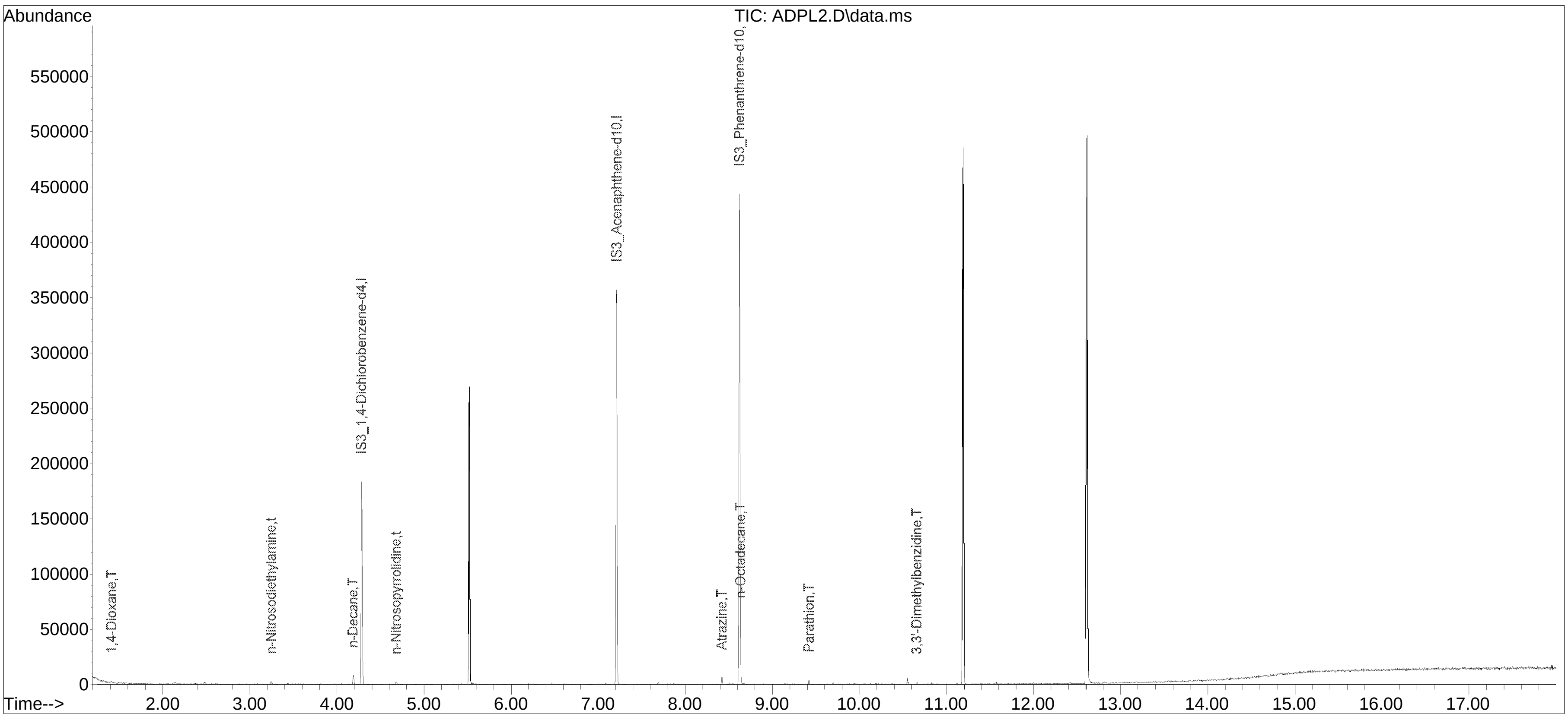
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL2.D
Acq On : 6 Nov 2024 3:53 am
Operator : Dakota:HNY
Sample : IL9,32,,ADPL0.2 Lot# 11136
Misc : WG1994500
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 06 09:28:51 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

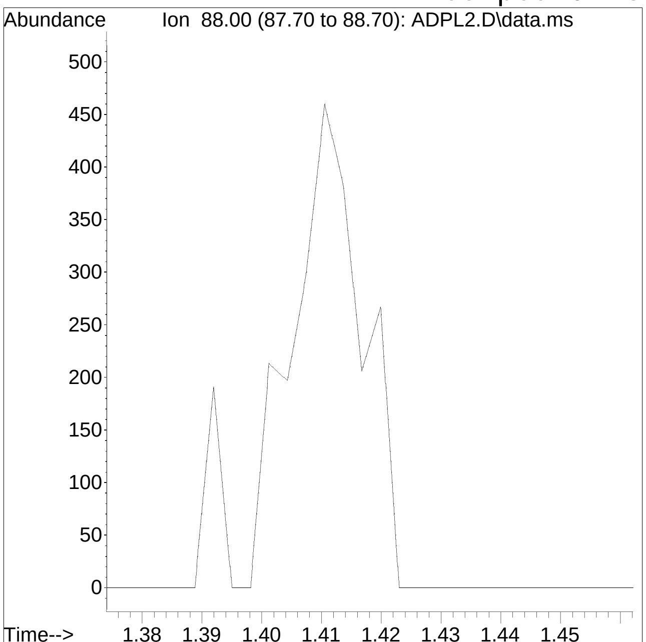
Sub List : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•

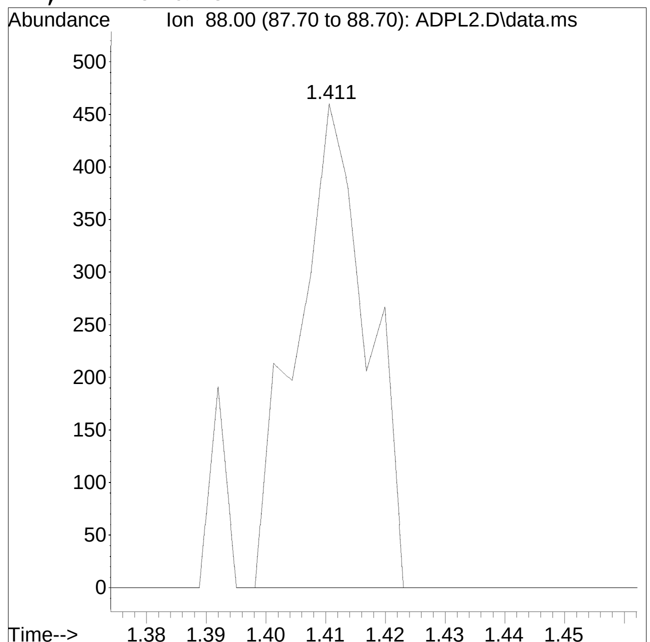


Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod      : FS241105RVT_Dakota.m
Data File   : ADPL2.D                      Operator     : Dakota:HNY
Date Inj'd  : 11/6/2024  3:53 am           Instrument   : Dakota
Sample      : IL9,32,,ADPL0.2 Lot# 11136Quant Date   : 11/6/2024  8:36 am
```

Compound #33: 1,4-Dioxane




Original Peak Response = 0          Manual Peak Response = 377 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL1.D
Acq On : 6 Nov 2024 4:17 am
Operator : Dakota:HNY
Sample : IL10,32,,ADPL0.1 Lot# 11137
Misc : WG1994500
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Nov 06 09:28:15 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List : ADPical_REV3 - ADP sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 32) IS3_1,4-Dichlorobenzen... | 4.283 | 152 | 27472 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 27034 | | | Recovery = | 101.62% | |
| 88) IS3_Acenaphthene-d10 | 7.210 | 164 | 60699 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 60553 | | | Recovery = | 100.24% | |
| 102) IS3_Phenanthrene-d10 | 8.621 | 188 | 137822 | 4.000 ug/ml | 0.00 |
| Standard Area 1 = 133879 | | | Recovery = | 102.95% | |
| System Monitoring Compounds | | | | | |
| Target Compounds | | | | | Qvalue |
| 33) 1,4-Dioxane | 1.401 | 88 | 71M2 | 0.026 ug/ml | |
| 34) n-Nitrosodiethylamine | 3.244 | 102 | 122M2 | 0.046 ug/ml | |
| 35) n-Decane | 4.183 | 57 | 569 | 0.073 ug/ml# | 42 |
| 36) n-Nitrosopyrrolidine | 4.683 | 100 | 197M2 | 0.061 ug/ml | |
| 89) Atrazine | 8.416 | 200 | 466M2 | 0.069 ug/ml | |
| 103) n-Octadecane | 8.634 | 57 | 961 | 0.080 ug/ml# | 1 |
| 104) Parathion | 9.417 | 109 | 181M2 | 0.067 ug/ml | |
| 105) 3,3'-Dimethylbenzidine | 10.663 | 212 | 69M4 | 0.002 ug/ml | |

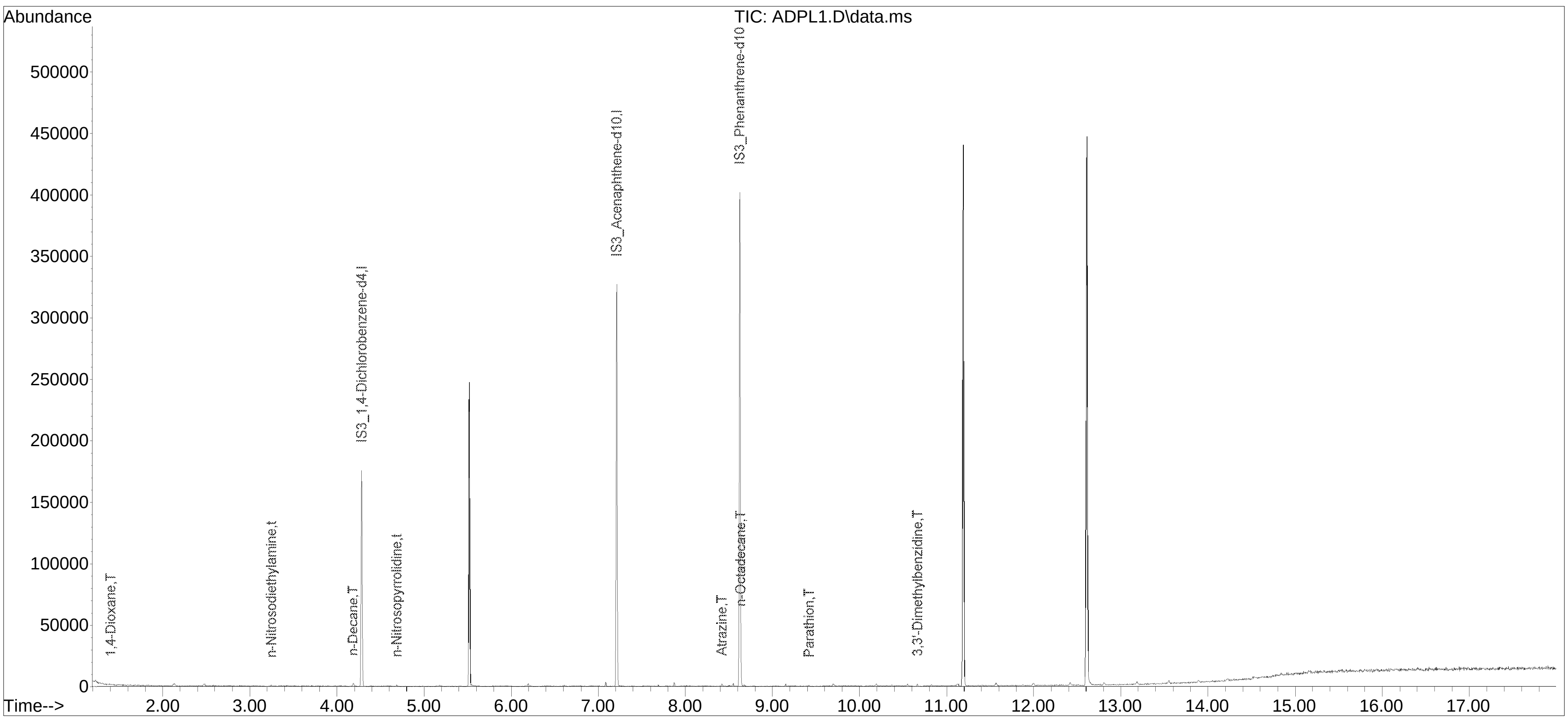
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL1.D
Acq On    :  6 Nov 2024   4:17 am
Operator  : Dakota:HNY
Sample    : IL10,32,,ADPL0.1 Lot# 11137
Misc      : WG1994500
ALS Vial  : 29   Sample Multiplier: 1

Quant Time: Nov 06 09:28:15 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

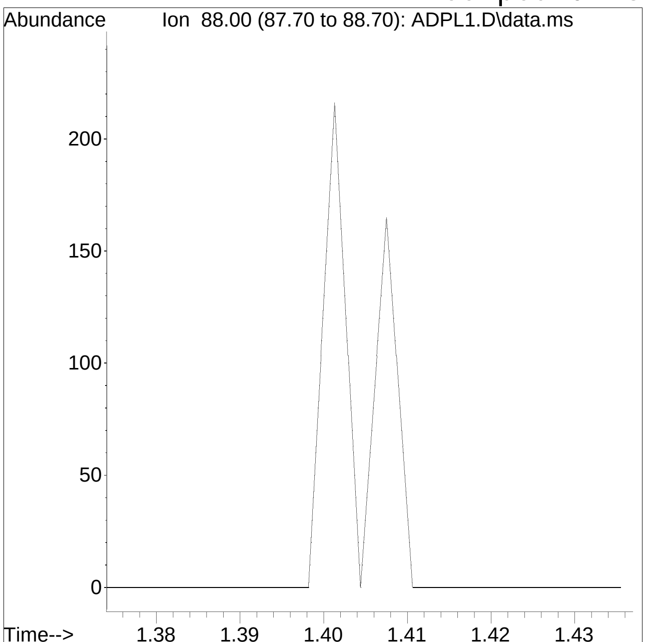
Sub List     : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•

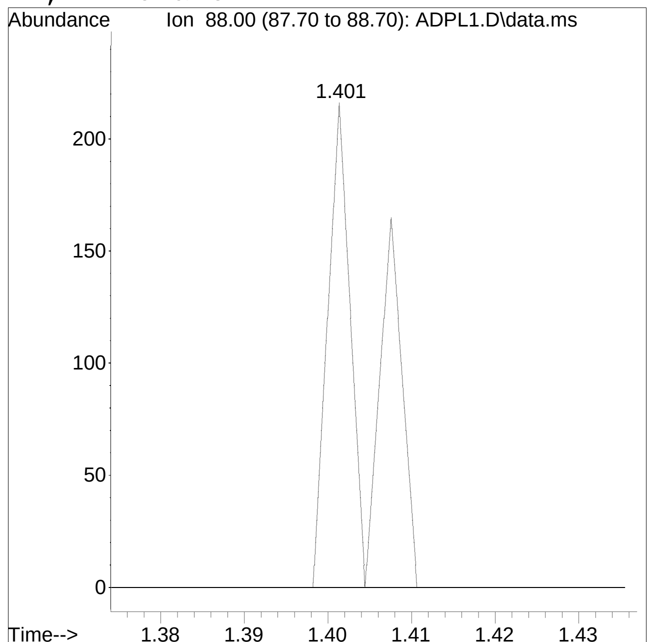


Manual Integration Report

```
Data Path    : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File    : ADPL1.D                     Operator     : Dakota:HNY
Date Inj'd   : 11/6/2024  4:17 am          Instrument   : Dakota
Sample       : IL10,32,,ADPL0.1 Lot# 1113Quant Date  : 11/6/2024  8:36 am
```

Compound #33: 1,4-Dioxane



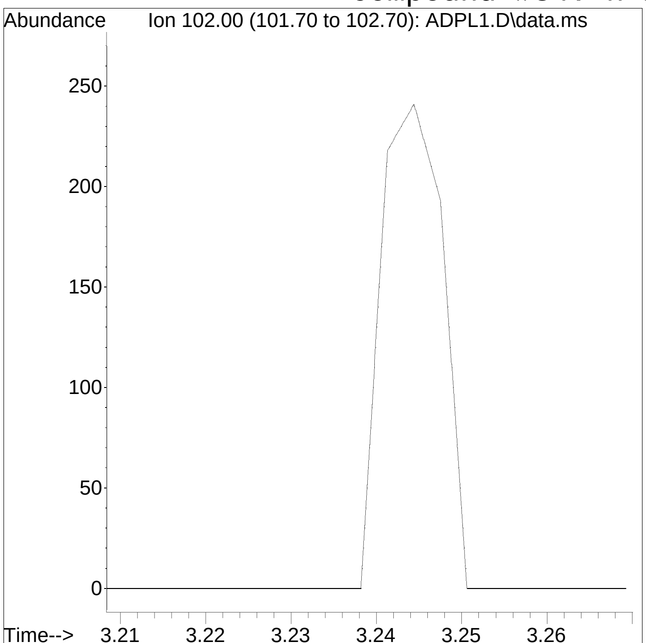

Original Peak Response = 0          Manual Peak Response = 71 M2

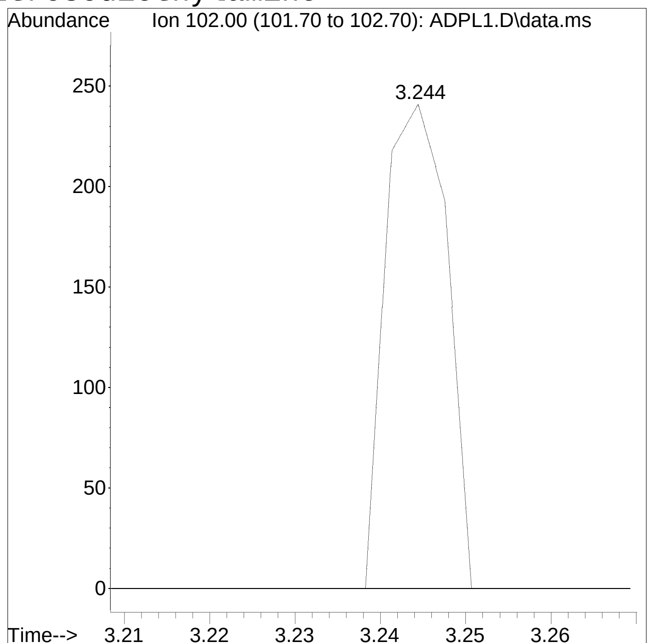
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ADPL1.D                   Operator    : Dakota:HNY
Date Inj'd  : 11/6/2024  4:17 am        Instrument  : Dakota
Sample      : IL10,32,,ADPL0.1 Lot# 1113Quant Date  : 11/6/2024  8:36 am
```

Compound #34: n-Nitrosodiethylamine



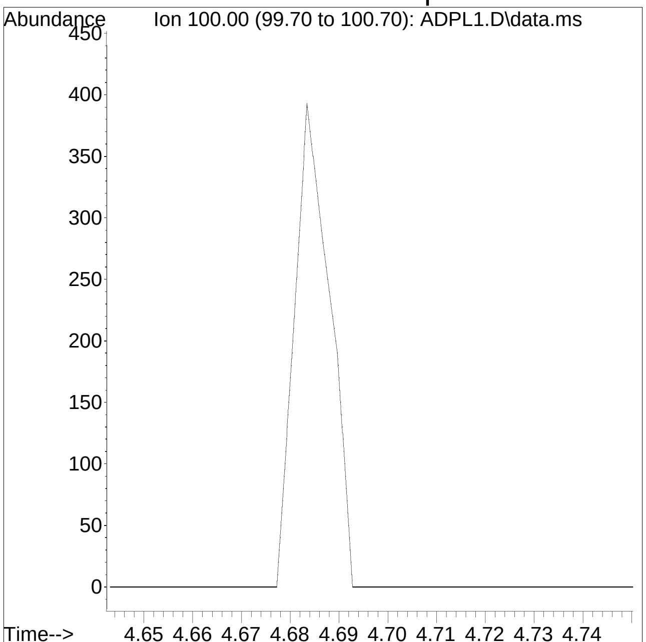

Original Peak Response = 0          Manual Peak Response = 122 M2

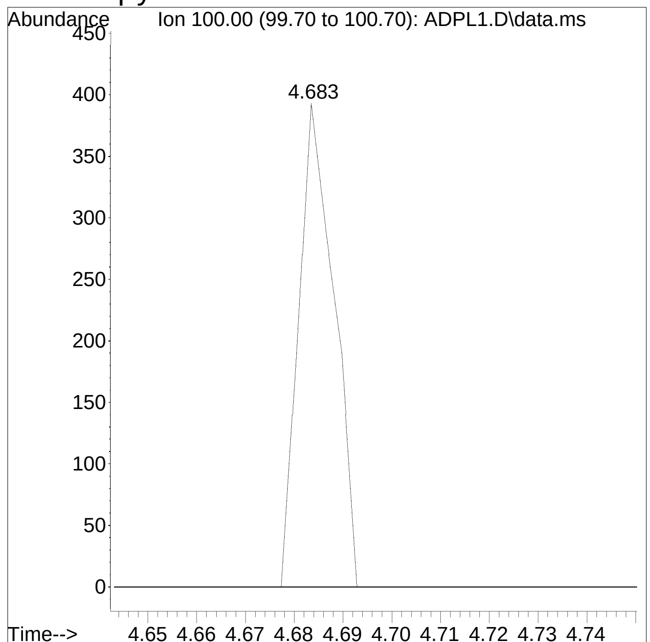
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ADPL1.D Operator : Dakota:HNY
Date Inj'd : 11/6/2024 4:17 am Instrument : Dakota
Sample : IL10,32,,ADPL0.1 Lot# 1113Quant Date : 11/6/2024 8:36 am

Compound #36: n-Nitrosopyrrolidine



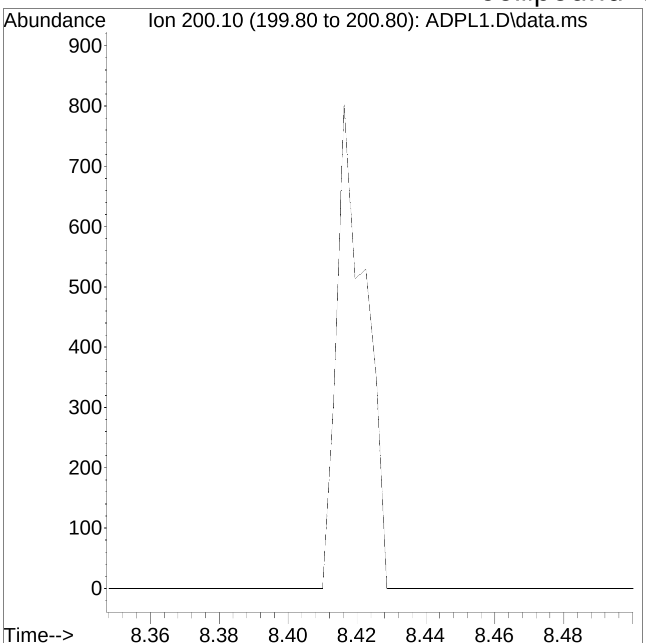



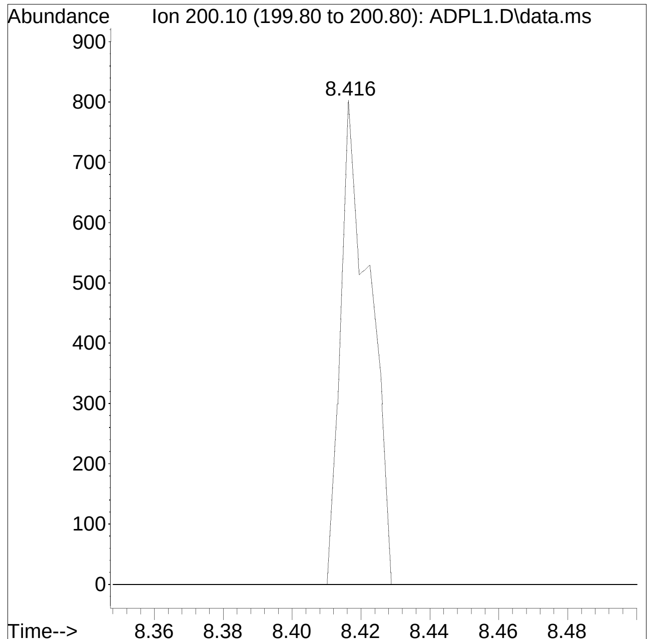

Original Peak Response = 0 Manual Peak Response = 197 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ADPL1.D Operator : Dakota:HNY
Date Inj'd : 11/6/2024 4:17 am Instrument : Dakota
Sample : IL10,32,,ADPL0.1 Lot# 1113Quant Date : 11/6/2024 8:36 am

Compound #89: Atrazine



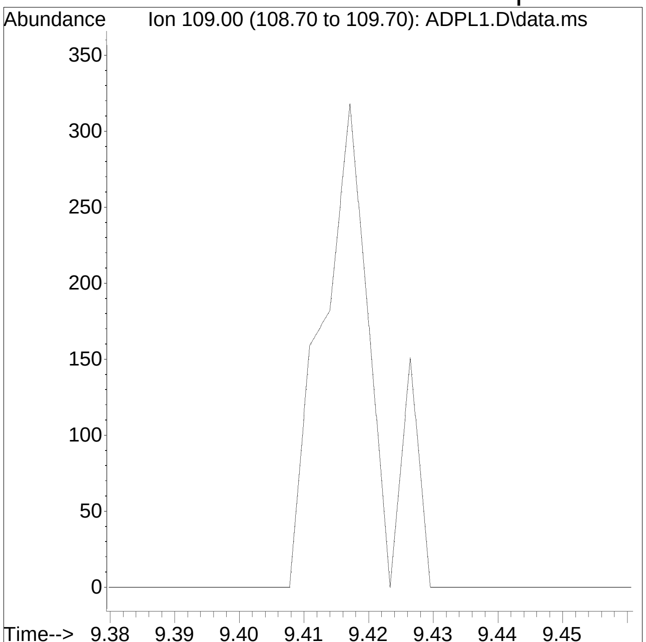



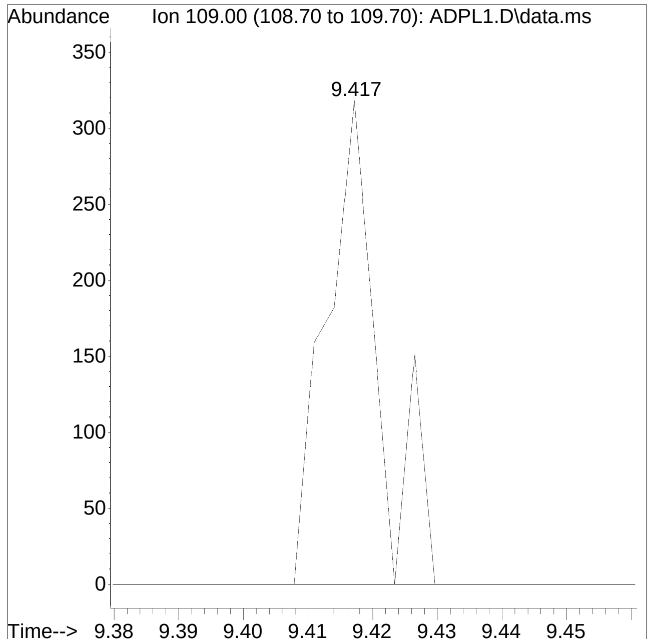

Original Peak Response = 0 Manual Peak Response = 466 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ADPL1.D                   Operator    : Dakota:HNY
Date Inj'd  : 11/6/2024  4:17 am        Instrument  : Dakota
Sample      : IL10,32,,ADPL0.1 Lot# 1113Quant Date  : 11/6/2024  8:36 am
```

Compound #104: Parathion



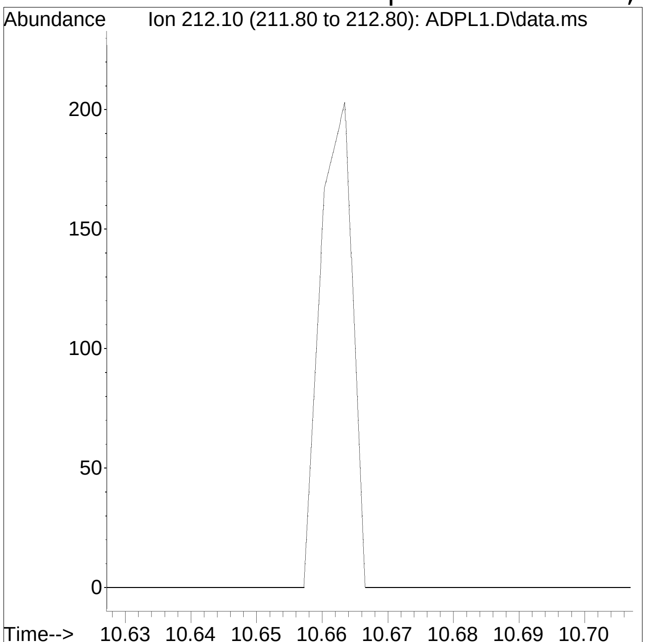

Original Peak Response = 0        Manual Peak Response = 181 M2

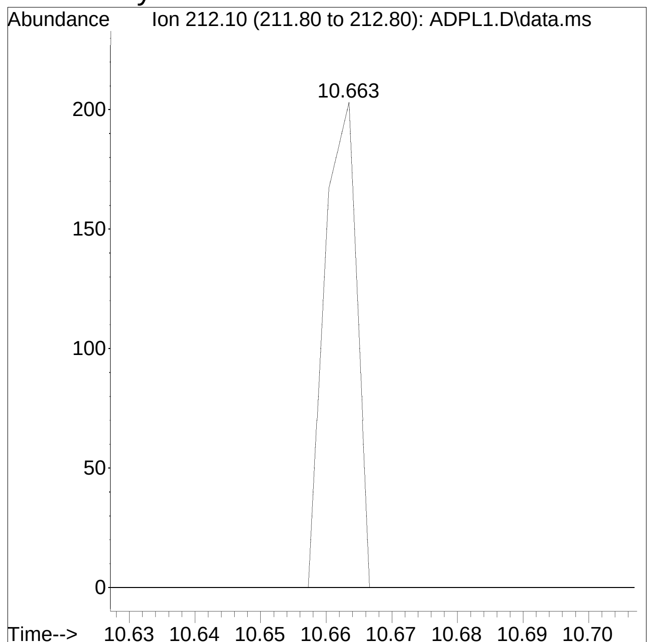
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ADPL1.D                    Operator    : Dakota:HNY
Date Inj'd  : 11/6/2024  4:17 am         Instrument  : Dakota
Sample      : IL10,32,,ADPL0.1 Lot# 1113Quant Date  : 11/6/2024  8:36 am
```

Compound #105: 3,3'-Dimethylbenzidine




Original Peak Response = 0

Manual Peak Response = 69 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPICV.D
Acq On : 6 Nov 2024 4:40 am
Operator : Dakota:HNY
Sample : CQICV,32,,ADPICV Lot# 11140
Misc : WG1994500
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Nov 11 15:34:09 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Nov 11 15:34:18 2024
Response via : Initial Calibration

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

| | | Compound | | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|---|
| 32 | I | IS3_1,4-Dichlorobenzene-d4 | | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 33 | T | 1,4-Dioxane | | 0.381 | 0.408 | -7.1 | 104 | 0.00 |
| 34 | t | n-Nitrosodiethylamine | | 0.390 | 0.412 | -5.6 | 105 | 0.00 |
| 35 | T | n-Decane | | 1.048 | 1.132 | -8.0 | 106 | 0.00 |
| 36 | t | n-Nitrosopyrrolidine | | 0.458 | 0.502 | -9.6 | 106 | 0.00 |
| 88 | I | IS3_Acenaphthene-d10 | | 1.000 | 1.000 | 0.0 | 106 | 0.00 |
| 89 | T | Atrazine | | 0.343 | 0.346 | -0.9 | 107 | 0.00 |
| 102 | I | IS3_Phenanthrene-d10 | | 1.000 | 1.000 | 0.0 | 106 | 0.00 |
| 103 | T | n-Octadecane | | 0.334 | 0.358 | -7.2 | 114 | 0.00 |
| 104 | T | Parathion | * | 5.000 | 4.893 | 2.1 | 116 | 0.00 |
| 105 | T | 3,3'-Dimethylbenzidine | * | 5.000 | 4.511 | 9.8 | 106 | 0.00 |

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

Quantitation Report (QT Reviewed)

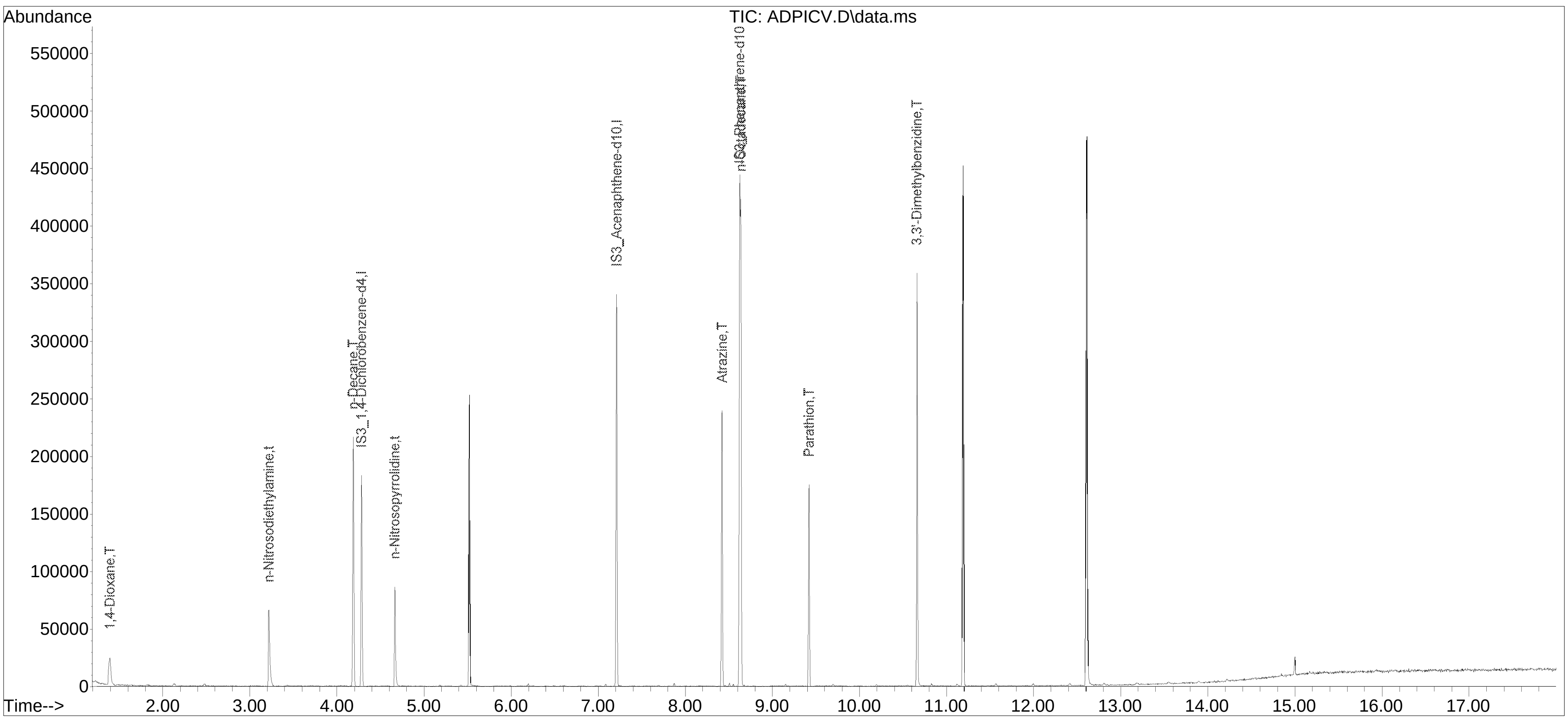
```
Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPICV.D
Acq On    :  6 Nov 2024   4:40 am
Operator  : Dakota:HNY
Sample    : CQICV,32,,ADPICV Lot# 11140
Misc      : WG1994500
ALS Vial  : 30   Sample Multiplier: 1

Quant Time: Nov 11 15:34:09 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Nov 11 15:34:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List     : ADPical_REV3 - ADP sublist

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
  --------------------------------------------------------------------------
  Internal Standards
 32) IS3_1,4-Dichlorobenzen...   4.282  152     27725     4.000 ug/ml    0.00
    Standard Area 1 = 27034                 Recovery   =  102.56%
 88) IS3_Acenaphthene-d10        7.210  164     64160     4.000 ug/ml    0.00
    Standard Area 1 = 60553                 Recovery   =  105.96%
102) IS3_Phenanthrene-d10        8.621  188    141409     4.000 ug/ml    0.00
    Standard Area 1 = 133879                 Recovery   =  105.62%

  System Monitoring Compounds

  Target Compounds                                                 Qvalue
 33) 1,4-Dioxane                 1.395   88      14130      5.352 ug/ml#    86
 34) n-Nitrosodiethylamine       3.216  102      14269      5.275 ug/ml#    56
 35) n-Decane                    4.186   57      39218      5.397 ug/ml#    30
 36) n-Nitrosopyrrolidine        4.665  100      17407      5.486 ug/ml#    70
 89) Atrazine                    8.422  200      27737      5.040 ug/ml     93
103) n-Octadecane                8.634   57      63318      5.367 ug/ml#     1
104) Parathion                   9.420  109      14391      4.893 ug/ml     94
105) 3,3'-Dimethylbenzidine     10.660  212     115367      4.511 ug/ml     99
  --------------------------------------------------------------------------

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

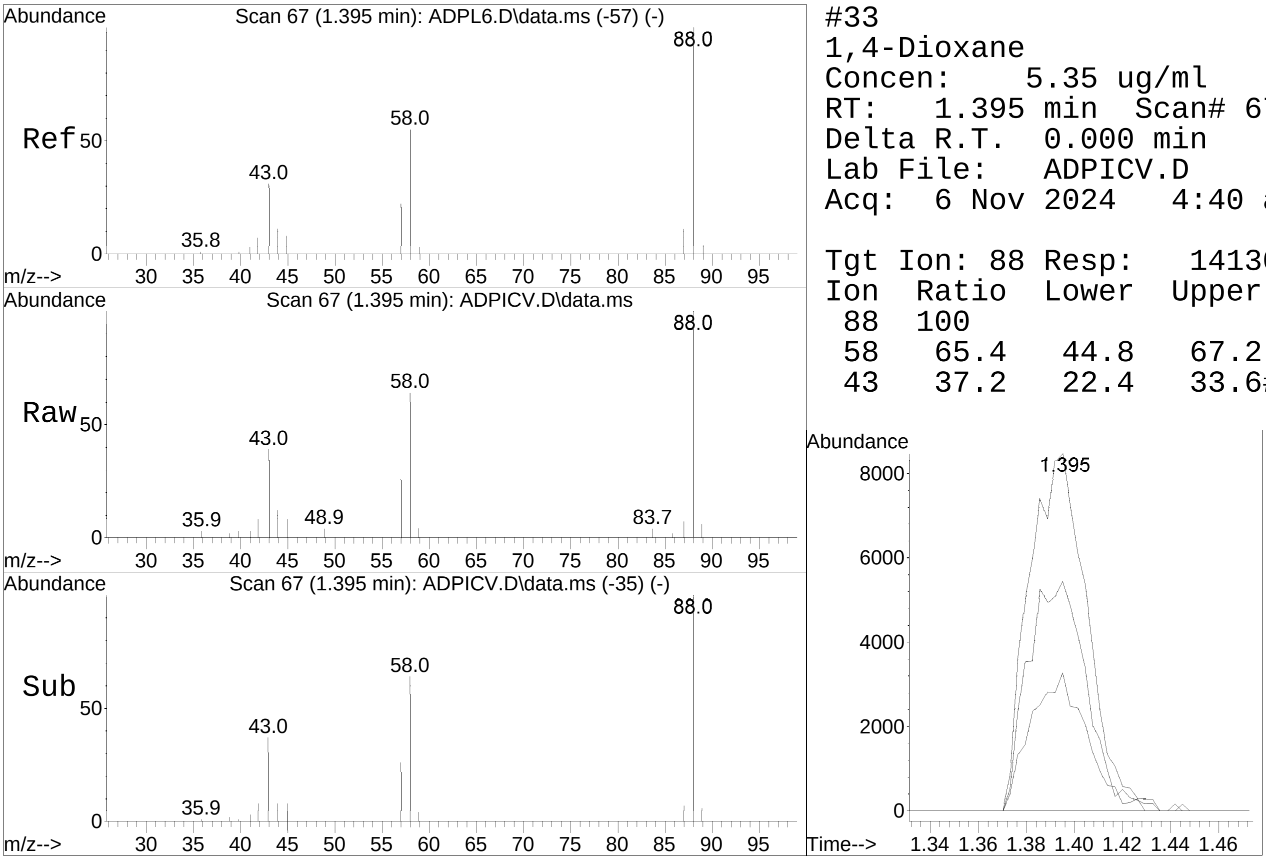
Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPICV.D
Acq On    :  6 Nov 2024   4:40 am
Operator  : Dakota:HNY
Sample    : CQICV,32,,ADPICV Lot# 11140
Misc      : WG1994500
ALS Vial  : 30   Sample Multiplier: 1

Quant Time: Nov 11 15:34:09 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Nov 11 15:34:18 2024
Response via : Initial Calibration

Sub List     : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•

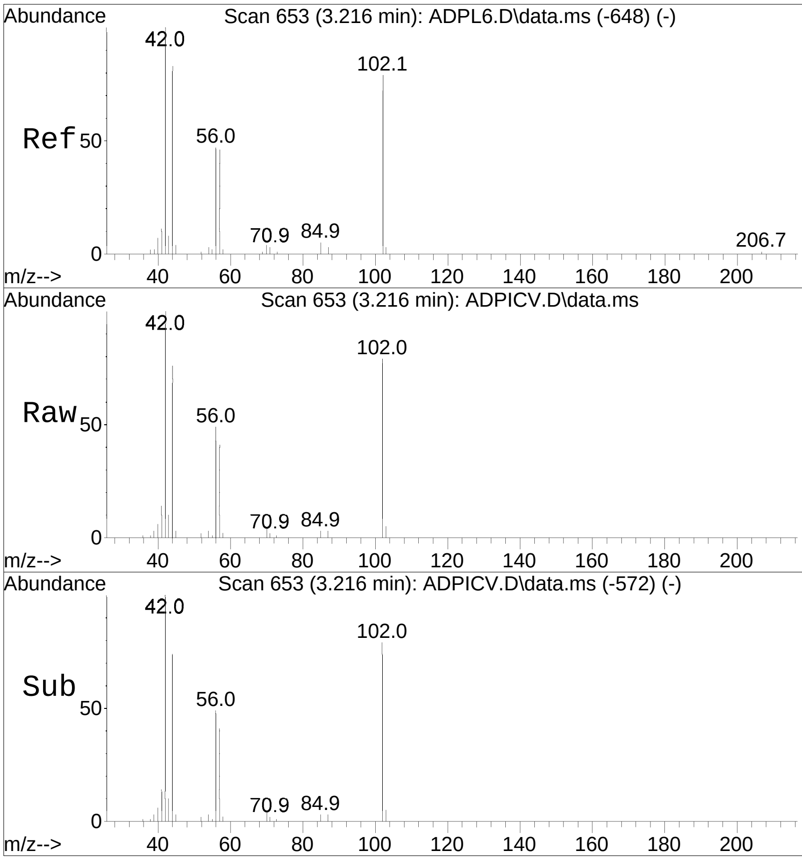





#33
1,4-Dioxane
Concen: 5.35 ug/ml
RT: 1.395 min Scan# 67
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

Tgt Ion: 88 Resp: 14130

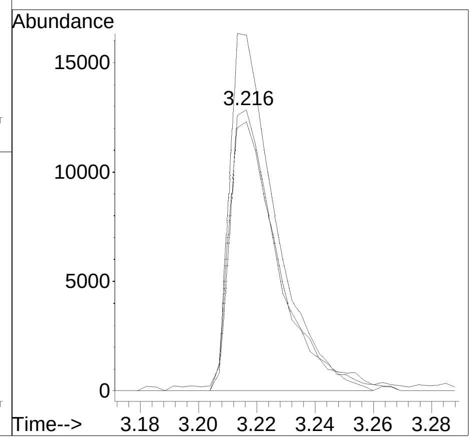
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 65.4 | 44.8 | 67.2 |
| 43 | 37.2 | 22.4 | 33.6# |

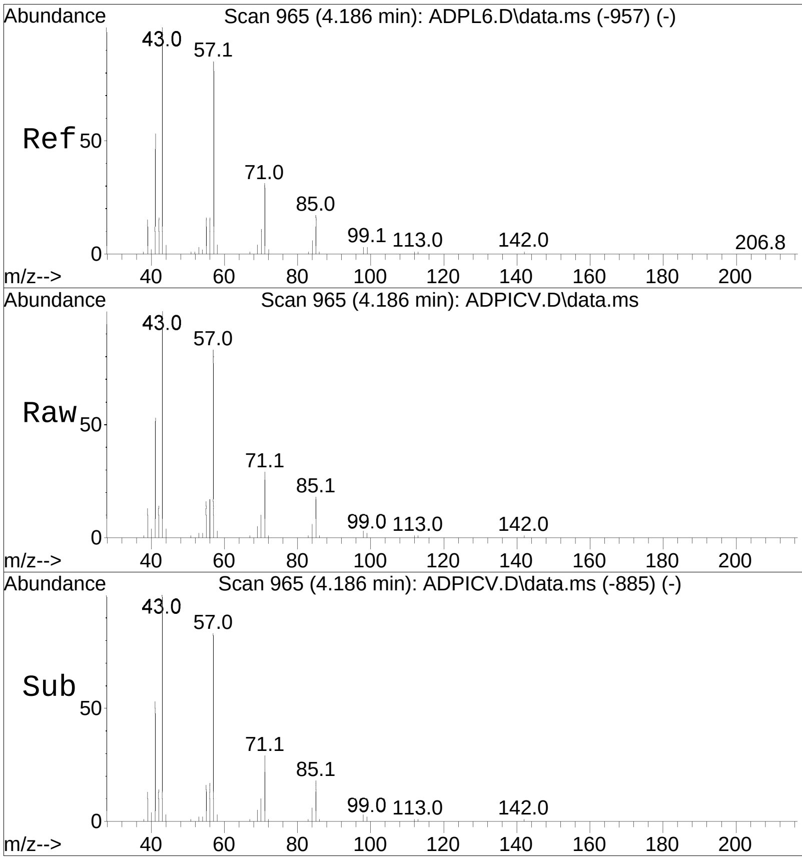



#34
n-Nitrosodiethylamine
Concen: 5.27 ug/ml
RT: 3.216 min Scan# 653
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

Tgt Ion:102 Resp: 14269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 102 | 100 | | |
| 42 | 127.1 | 67.6 | 101.4# |
| 44 | 104.7 | 57.4 | 86.0# |

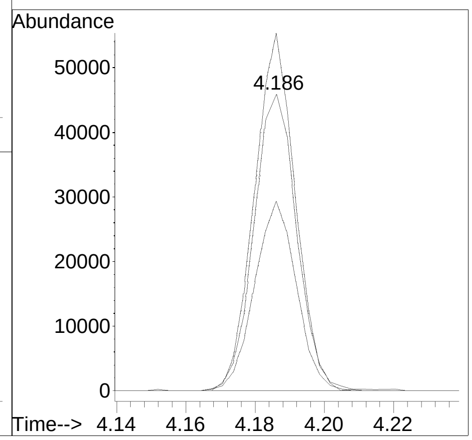


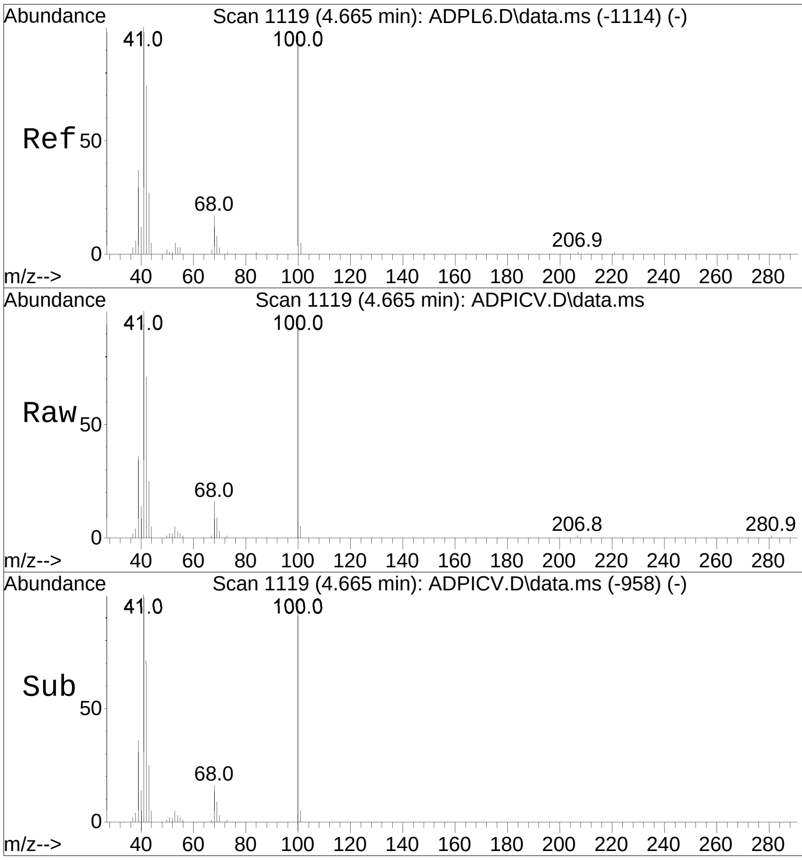



#35
n-Decane
Concen: 5.40 ug/ml
RT: 4.186 min Scan# 965
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

Tgt Ion: 57 Resp: 39218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 43 | 116.0 | 0.2 | 0.2# |
| 41 | 62.8 | 0.2 | 0.2# |

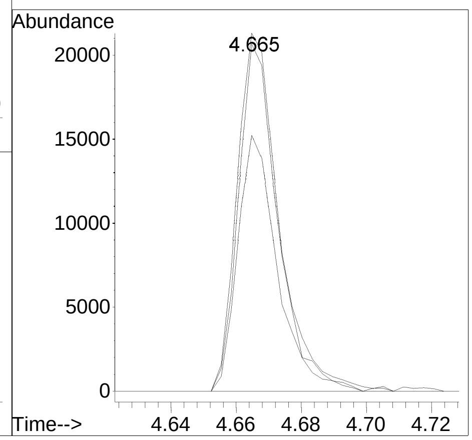


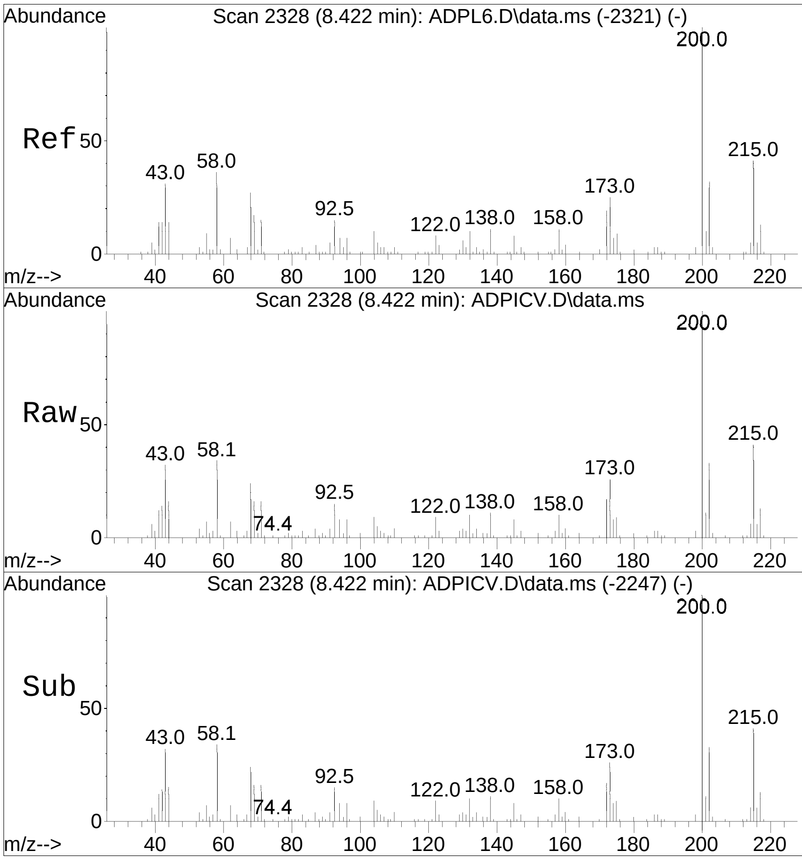



#36
n-Nitrosopyrrolidine
Concen: 5.49 ug/ml
RT: 4.665 min Scan# 1119
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

Tgt Ion:100 Resp: 17407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 100 | 100 | | |
| 41 | 110.0 | 63.0 | 94.4# |
| 42 | 74.0 | 46.6 | 70.0# |

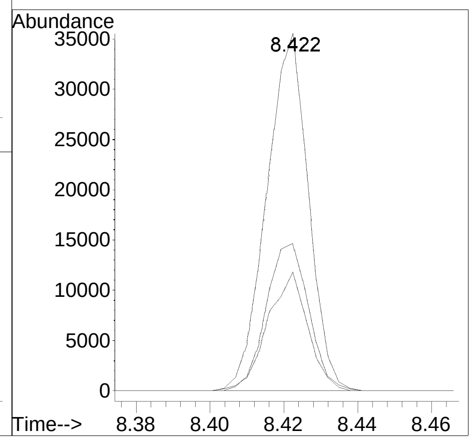


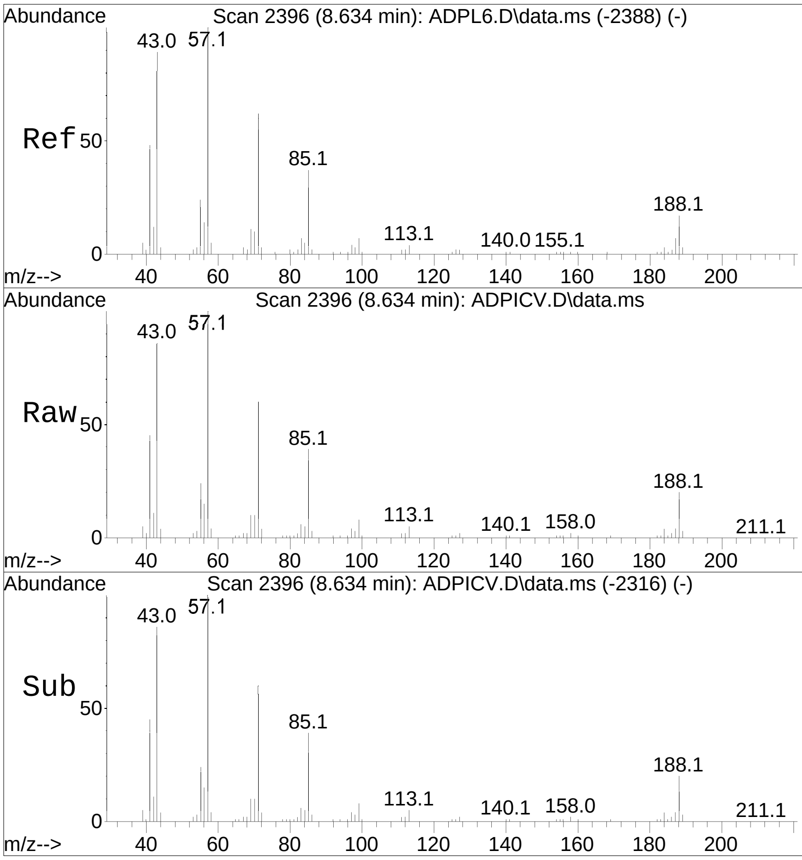



#89
Atrazine
Concen: 5.04 ug/ml
RT: 8.422 min Scan# 2328
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

Tgt Ion:200 Resp: 27737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 202 | 32.0 | 25.8 | 38.6 |
| 215 | 42.1 | 40.2 | 60.4 |

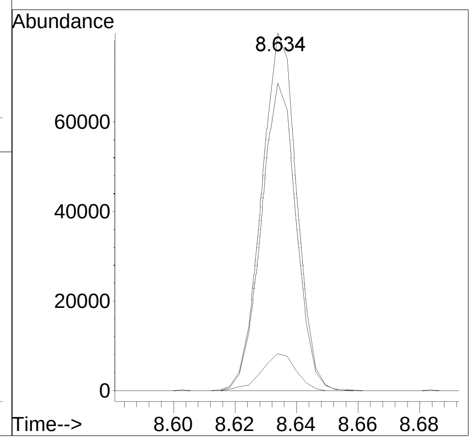


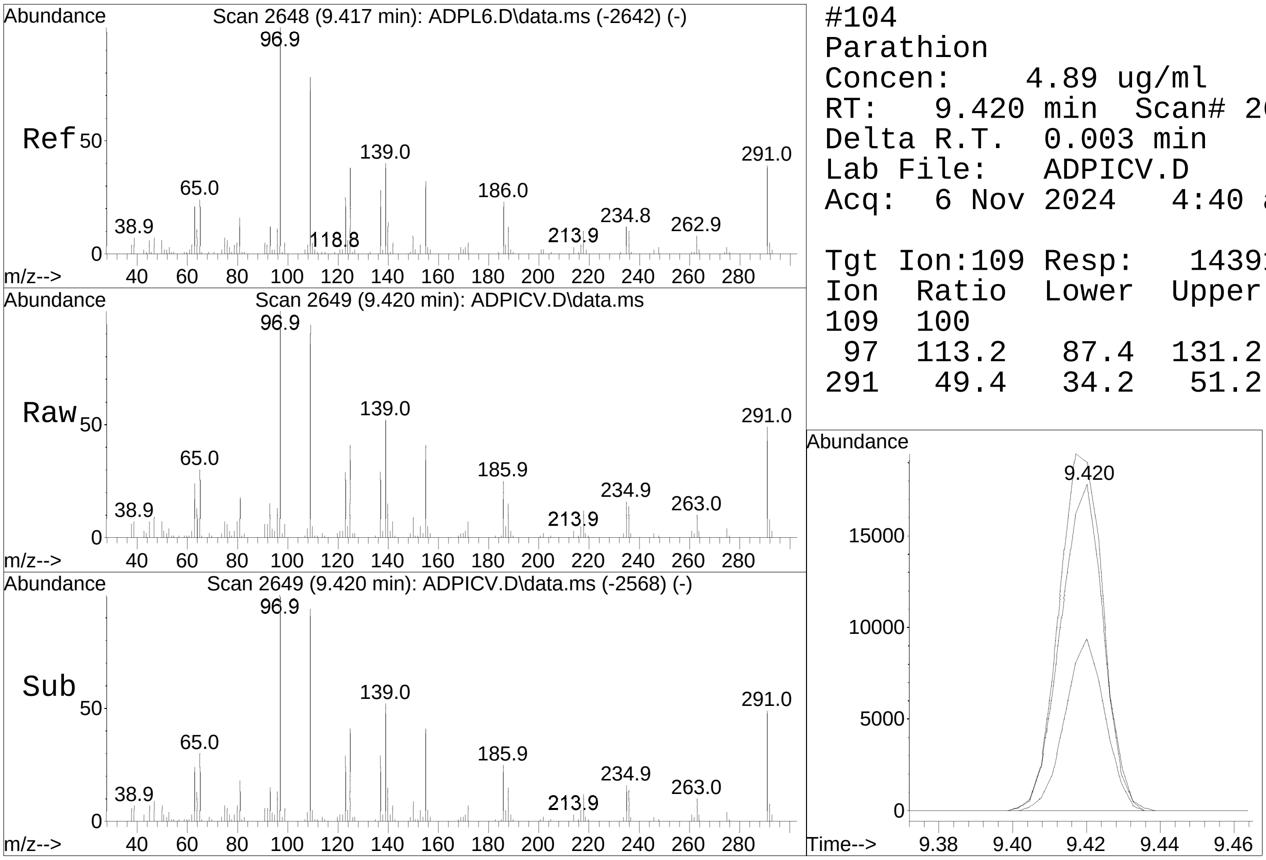



#103
n-Octadecane
Concen: 5.37 ug/ml
RT: 8.634 min Scan# 2396
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

Tgt Ion: 57 Resp: 63318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 43 | 85.6 | 9.0 | 13.6# |
| 70 | 10.2 | 0.2 | 0.2# |

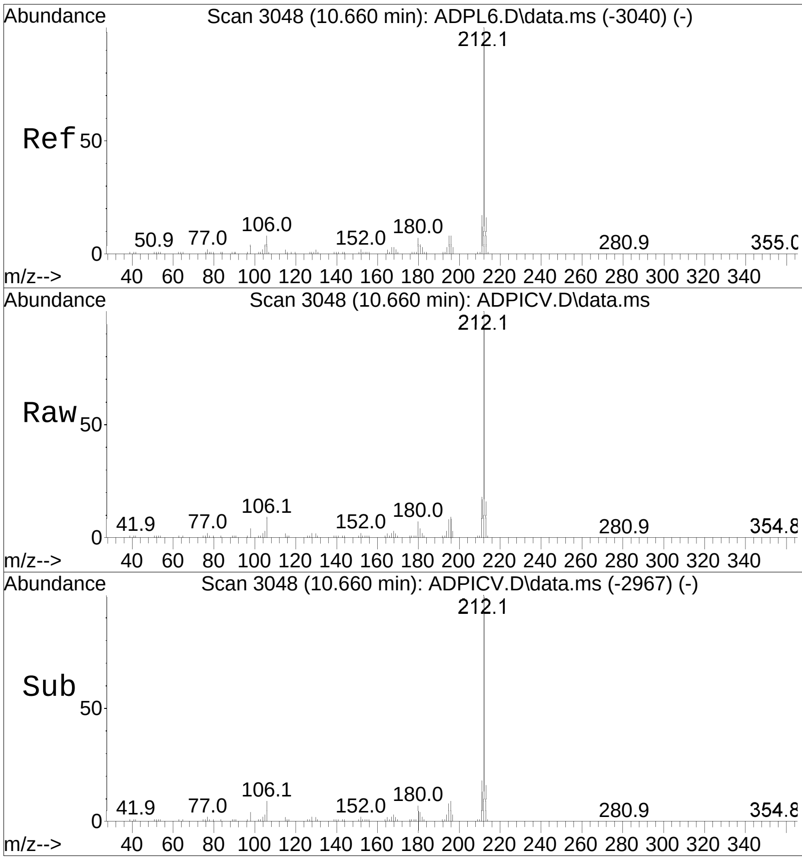





#104
Parathion
Concen: 4.89 ug/ml
RT: 9.420 min Scan# 2649
Delta R.T. 0.003 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

Tgt Ion:109 Resp: 14391

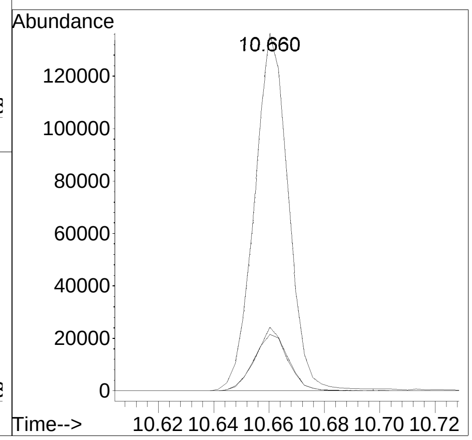
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 109 | 100 | | |
| 97 | 113.2 | 87.4 | 131.2 |
| 291 | 49.4 | 34.2 | 51.2 |




#105
3,3'-Dimethylbenzidine
Concen: 4.51 ug/ml
RT: 10.660 min Scan# 3048
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

Tgt Ion:212 Resp: 115367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 211 | 16.9 | 12.9 | 19.3 |
| 213 | 16.1 | 13.2 | 19.8 |



Manual Integration Report

```
Data Path   : I:\8270\Dakota\241105RVTICQMethod     : FS241105RVT_Dakota.m
Data File   : ADPICV.D                 Operator    : Dakota:HNY
Date Inj'd  : 11/6/2024  4:40 am       Instrument  : Dakota
Sample      : CQICV,32,,ADPICV Lot# 1114Quant Date  : 11/11/2024  3:35 pm
```

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

Evaluate Relative Error Report Dakota

Method Path : I:\8270\Dakota\241105RVTICAL\
Method File : FS241105RVT_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Nov 11 15:34:18 2024

| | | COMPOUND | CalFit | Units | TrueMid | MidConc | %RE | TrueLow | LowConc | %RE |
|---|---|---|---|---|---|---|---|---|---|---|
| 68 | T | 2,4-Dinitrophenol | L | ug/ml | 5.0 | 4.560 | -8.8 | 1.00 | 1.235 | 23.5 |
| 104 | T | Parathion | Q | ug/ml | 5.0 | 4.487 | -10.3 | 0.50 | 0.639 | 27.8 |
| 105 | T | 3,3'-Dimethylbenzidine | L | ug/ml | 5.0 | 4.491 | -10.2 | 1.00 | 1.229 | 22.9 |

Calibration Correlation Report

| | | COMPOUND | CalFit | CoefOfDet | QuadTerm | LinTerm | Constant |
|---|---|---|---|---|---|---|---|
| 68 | T | 2,4-Dinitrophenol | Linear | 0.995883 | 0.000000 | 0.219967 | -0.0353966 |
| 104 | T | Parathion | Quadratic | 0.997840 | 0.002726 | 0.0829685 | -0.00379272 |
| 105 | T | 3,3'-Dimethylbenzidine | Linear | 0.997212 | 0.000000 | 0.864599 | -0.15929 |

# Continuing Calibration

# Calibration Verification Summary
# Form 7
# Semivolatiles

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : DAKOTA | Calibration Date | : 12/21/24 06:27 |
| Lab File ID | : ABN1221 | Init. Calib. Date(s) | : 11/05/24 11/06/24 |
| Sample No | : WG2012119-3 | Init. Calib. Times | : 16:59 04:17 |
| Channel | : | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| IS1_1,4-Dichlorobenzene-d4 | 1 | 1 | - | 0 | 20 | 77 | 0 |
| n-Nitrosodimethylamine | 0.63 | 0.71 | - | -12.7 | 20 | 89 | 0 |
| Pyridine | 0.954 | 1.118 | - | -17.2 | 20 | 85 | 0 |
| 2-Fluorophenol | 1.028 | 1.055 | - | -2.6 | 20 | 81 | 0 |
| Aniline | 1.567 | 1.661 | - | -6 | 20 | 84 | 0 |
| 2-Chlorophenol | 1.225 | 1.292 | - | -5.5 | 20 | 83 | 0 |
| Phenol-d6 | 1.317 | 1.394 | - | -5.8 | 20 | 84 | 0 |
| Phenol | 1.421 | 1.46 | - | -2.7 | 20 | 81 | 0 |
| Bis(2-chloroethyl)ether | 1.017 | 1.019 | - | -0.2 | 20 | 80 | 0 |
| 1,3-Dichlorobenzene | 1.577 | 1.539 | - | 2.4 | 20 | 79 | 0 |
| 1,4-Dichlorobenzene | 1.61 | 1.565 | - | 2.8 | 20 | 79 | 0 |
| 1,2-Dichlorobenzene | 1.534 | 1.57 | - | -2.3 | 20 | 83 | 0 |
| Benzyl alcohol | 0.93 | 1.032 | - | -11 | 20 | 87 | 0 |
| Bis(2-chloroisopropyl)ethe | 1.794 | 1.934 | - | -7.8 | 20 | 88 | 0 |
| 2-Methylphenol | 1.079 | 1.117 | - | -3.5 | 20 | 85 | 0 |
| Hexachloroethane | 0.589 | 0.602 | - | -2.2 | 20 | 86 | 0 |
| n-Nitrosodi-n-propylamine | 0.863 | 0.914 | - | -5.9 | 20 | 87 | 0 |
| 3-Methylphenol/4-Methylphe | 1.182 | 1.225 | - | -3.6 | 20 | 85 | 0 |
| Nitrobenzene-d5 | 1.195 | 1.331 | - | -11.4 | 20 | 87 | 0 |
| Nitrobenzene | 1.222 | 1.368 | - | -11.9 | 20 | 88 | 0 |
| Isophorone | 2.247 | 2.423 | - | -7.8 | 20 | 86 | 0 |
| 2-Nitrophenol | 0.619 | 0.711 | - | -14.9 | 20 | 92 | 0 |
| 2,4-Dimethylphenol | 1.101 | 1.176 | - | -6.8 | 20 | 86 | 0 |
| Bis(2-chloroethoxy)methane | 1.4 | 1.496 | - | -6.9 | 20 | 85 | 0 |
| 2,4-Dichlorophenol | 1.285 | 1.395 | - | -8.6 | 20 | 87 | 0 |
| 1,2,4-Trichlorobenzene | 1.555 | 1.58 | - | -1.6 | 20 | 83 | 0 |
| IS1_Naphthalene-d8 | 1 | 1 | - | 0 | 20 | 83 | 0 |
| Naphthalene | 1.1 | 1.031 | - | 6.3 | 20 | 84 | 0 |
| Benzoic Acid | 0.228 | 0.253 | - | -11 | 20 | 102 | 0 |
| 4-Chloroaniline | 0.121 | 0.121 | - | 0 | 20 | 85 | 0 |
| Hexachlorobutadiene | 0.258 | 0.247 | - | 4.3 | 20 | 82 | 0 |
| p-Chloro-m-cresol | 0.29 | 0.295 | - | -1.7 | 20 | 88 | 0 |
| 2-Methylnaphthalene | 0.761 | 0.74 | - | 2.8 | 20 | 88 | 0 |
| 1-Methylnaphthalene | 0.242 | 0.234 | - | 3.3 | 20 | 84 | 0 |
| Hexachlorocyclopentadiene | 0.272 | 0.284 | - | -4.4 | 20 | 88 | 0 |
| 2,4,6-Trichlorophenol | 0.287 | 0.307 | - | -7 | 20 | 92 | 0 |
| 2,4,5-Trichlorophenol | 0.32 | 0.322 | - | -0.6 | 20 | 89 | 0 |
| 2-Fluorobiphenyl | 0.99 | 0.941 | - | 4.9 | 20 | 86 | 0 |
| 2-Chloronaphthalene | 0.852 | 0.816 | - | 4.2 | 20 | 85 | 0 |
| 2-Nitroaniline | 0.218 | 0.236 | - | -8.3 | 20 | 91 | 0 |
| 1,4-Dinitrobenzene | 0.095 | 0.109 | - | -14.7 | 20 | 96 | 0 |
| 1,3-Dinitrobenzene | 0.113 | 0.123 | - | -8.8 | 20 | 89 | 0 |
| Dimethyl phthalate | 0.991 | 0.988 | - | 0.3 | 20 | 89 | 0 |

* Value outside of QC limits.

# Calibration Verification Summary
# Form 7
# Semivolatiles

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : DAKOTA | Calibration Date | : 12/21/24 06:27 |
| Lab File ID | : ABN1221 | Init. Calib. Date(s) | : 11/05/24 11/06/24 |
| Sample No | : WG2012119-3 | Init. Calib. Times | : 16:59 04:17 |
| Channel | : | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| Acenaphthylene | 1.252 | 1.255 | - | -0.2 | 20 | 88 | 0 |
| 2,6-Dinitrotoluene | 0.185 | 0.202 | - | -9.2 | 20 | 90 | 0 |
| 1,2-Dinitrobenzene | 0.066 | 0.072 | - | -9.1 | 20 | 85 | 0 |
| IS1_Acenaphthene-d10 | 1 | 1 | - | 0 | 20 | 90 | 0 |
| 3-Nitroaniline | 0.309 | 0.328 | - | -6.1 | 20 | 95 | 0 |
| Acenaphthene | 1.163 | 1.032 | - | 11.3 | 20 | 88 | 0 |
| 2,4-Dinitrophenol | 0.188 | 0.158 | - | 16 | 20 | 83 | 0 |
| Dibenzofuran | 2.006 | 1.791 | - | 10.7 | 20 | 88 | 0 |
| 2,4-Dinitrotoluene | 0.387 | 0.407 | - | -5.2 | 20 | 91 | 0 |
| 4-Nitrophenol | 0.23 | 0.262 | - | -13.9 | 20 | 101 | 0 |
| 2,3,5,6-Tetrachlorophenol | 0.436 | 0.455 | - | -4.4 | 20 | 96 | 0 |
| 2,3,4,6-Tetrachlorophenol | 0.428 | 0.431 | - | -0.7 | 20 | 94 | 0 |
| Diethyl phthalate | 1.575 | 1.492 | - | 5.3 | 20 | 94 | 0 |
| Fluorene | 1.536 | 1.404 | - | 8.6 | 20 | 89 | 0 |
| 4-Chlorophenyl phenyl ethe | 0.792 | 0.701 | - | 11.5 | 20 | 87 | 0 |
| 4-Nitroaniline | 0.299 | 0.323 | - | -8 | 20 | 93 | 0 |
| 4,6-Dinitro-o-cresol | 0.234 | 0.241 | - | -3 | 20 | 90 | 0 |
| NDPA/DPA | 1.337 | 1.19 | - | 11 | 20 | 88 | 0 |
| Azobenzene | 1.281 | 1.28 | - | 0.1 | 20 | 95 | 0 |
| 2,4,6-Tribromophenol | 0.286 | 0.32 | - | -11.9 | 20 | 106 | 0 |
| 4-Bromophenyl phenyl ether | 0.522 | 0.468 | - | 10.3 | 20 | 89 | 0 |
| Hexachlorobenzene | 0.656 | 0.617 | - | 5.9 | 20 | 95 | 0 |
| Pentachlorophenol | 0.356 | 0.416 | - | -16.9 | 20 | 105 | 0 |
| IS1_Phenanthrene-d10 | 1 | 1 | - | 0 | 20 | 93 | 0 |
| Phenanthrene | 1.183 | 1.054 | - | 10.9 | 20 | 90 | 0 |
| Anthracene | 1.16 | 1.057 | - | 8.9 | 20 | 91 | 0 |
| Carbazole | 1.064 | 0.987 | - | 7.2 | 20 | 90 | 0 |
| Di-n-butylphthalate | 1.207 | 1.19 | - | 1.4 | 20 | 93 | 0 |
| Fluoranthene | 1.422 | 1.334 | - | 6.2 | 20 | 94 | 0 |
| Benzidine | 0.772 | 0.78 | - | -1 | 20 | 90 | 0 |
| Pyrene | 1.52 | 1.411 | - | 7.2 | 20 | 92 | 0 |
| 4-Terphenyl-d14 | 1.157 | 1.041 | - | 10 | 20 | 91 | 0 |
| Butyl benzyl phthalate | 0.517 | 0.542 | - | -4.8 | 20 | 97 | 0 |
| IS1_Chrysene-d12 | 1 | 1 | - | 0 | 20 | 94 | 0 |
| Benzo(a)anthracene | 1.355 | 1.213 | - | 10.5 | 20 | 91 | 0 |
| 3,3'-Dichlorobenzidine | 0.505 | 0.491 | - | 2.8 | 20 | 92 | 0 |
| Chrysene | 1.349 | 1.166 | - | 13.6 | 20 | 89 | 0 |
| Bis(2-ethylhexyl)phthalate | 0.726 | 0.753 | - | -3.7 | 20 | 97 | 0 |
| Di-n-octylphthalate | 1.212 | 1.264 | - | -4.3 | 20 | 97 | 0 |
| Benzo(b)fluoranthene | 1.42 | 1.363 | - | 4 | 20 | 97 | 0 |
| Benzo(k)fluoranthene | 1.383 | 1.266 | - | 8.5 | 20 | 88 | 0 |
| Benzo(a)pyrene | 1.267 | 1.219 | - | 3.8 | 20 | 93 | 0 |
| IS1_Perylene-d12 | 1 | 1 | - | 0 | 20 | 96 | 0 |

* Value outside of QC limits.

# Calibration Verification Summary
# Form 7
# Semivolatiles

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : DAKOTA | Calibration Date | : 12/21/24 06:27 |
| Lab File ID | : ABN1221 | Init. Calib. Date(s) | : 11/05/24 11/06/24 |
| Sample No | : WG2012119-3 | Init. Calib. Times | : 16:59 04:17 |
| Channel | : | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| Indeno(1,2,3-cd)pyrene | 1.234 | 1.097 | - | 11.1 | 20 | 90 | 0 |
| Dibenzo(a,h)anthracene | 1.213 | 1.063 | - | 12.4 | 20 | 87 | 0 |
| Benzo(ghi)perylene | 1.192 | 1.062 | - | 10.9 | 20 | 91 | 0 |

* Value outside of QC limits.

# Calibration Verification Summary
# Form 7
# Semivolatiles

| | | | | |
|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 | |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 | |
| **Instrument ID** | : DAKOTA | **Calibration Date** | : 12/21/24 06:50 | |
| **Lab File ID** | : AP91221 | **Init. Calib. Date(s)** | : 11/05/24 | 11/06/24 |
| **Sample No** | : WG2012119-4 | **Init. Calib. Times** | : 16:59 | 04:17 |
| **Channel** | : | | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| IS2_1,4-Dichlorobenzene-d4 | 1 | 1 | - | 0 | 20 | 81 | 0 |
| Benzaldehyde | 0.703 | 0.798 | - | -13.5 | 20 | 85 | 0 |
| Acetophenone | 1.403 | 1.658 | - | -18.2 | 20 | 92 | 0 |
| m-Toluidine | 1.287 | 1.438 | - | -11.7 | 20 | 89 | 0 |
| 2-Chloroaniline | 1.368 | 1.59 | - | -16.2 | 20 | 91 | 0 |
| IS2_Naphthalene-d8 | 1 | 1 | - | 0 | 20 | 90 | 0 |
| a-Terpineol | 0.221 | 0.254 | - | -14.9 | 20 | 98 | 0 |
| 3-Chloroaniline | 0.115 | 0.133 | - | -15.7 | 20 | 96 | 0 |
| 2,6-Dichlorophenol | 0.296 | 0.338 | - | -14.2 | 20 | 96 | 0 |
| 1-chloro-2-nitrobenzene | 0.113 | 0.137 | - | -21.2* | 20 | 99 | 0 |
| Caprolactam | 0.123 | 0.139 | - | -13 | 20 | 99 | 0 |
| 1,2,4,5-Tetrachlorobenzene | 0.413 | 0.435 | - | -5.3 | 20 | 90 | 0 |
| Biphenyl | 0.842 | 0.896 | - | -6.4 | 20 | 90 | 0 |
| IS2_Acenaphthene-d10 | 1 | 1 | - | 0 | 20 | 93 | 0 |
| Dichloran | 0.169 | 0.193 | - | -14.2 | 20 | 109 | 0 |
| Pentachloronitrobenzene | 0.187 | 0.221 | - | -18.2 | 20 | 114 | 0 |
| IS2_Phenanthrene-d10 | 1 | 1 | - | 0 | 20 | 98 | 0 |
| Diphenamid | 0.416 | 0.448 | - | -7.7 | 20 | 102 | 0 |

* Value outside of QC limits.

# Calibration Verification Summary
# Form 7
# Semivolatiles

| | | | | | |
|---|---|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 | | |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 | | |
| Instrument ID | : DAKOTA | Calibration Date | : 12/21/24 07:12 | | |
| Lab File ID | : ADP1221 | Init. Calib. Date(s) | : 11/05/24 | 11/06/24 | |
| Sample No | : WG2012119-5 | Init. Calib. Times | : 16:59 | 04:17 | |
| Channel | : | | | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| IS3_1,4-Dichlorobenzene-d4 | 1 | 1 | - | 0 | 20 | 81 | 0 |
| 1,4-Dioxane | 0.381 | 0.437 | - | -14.7 | 20 | 88 | 0 |
| n-Decane | 1.048 | 1.037 | - | 1 | 20 | 77 | 0 |
| IS3_Acenaphthene-d10 | 1 | 1 | - | 0 | 20 | 92 | 0 |
| Atrazine | 0.343 | 0.335 | - | 2.3 | 20 | 90 | 0 |
| IS3_Phenanthrene-d10 | 1 | 1 | - | 0 | 20 | 99 | 0 |
| n-Octadecane | 0.334 | 0.333 | - | 0.3 | 20 | 100 | 0 |
| Parathion | 5 | 5.132 | - | -2.6 | 20 | 115 | 0 |
| 3,3'-Dimethylbenzidine | 0.728 | 0.673 | - | 7.6 | 20 | 103 | 0 |

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241221RVT\
Data File : ABN1221.D
Acq On : 21 Dec 2024 6:27 am
Operator : Dakota:smz
Sample : wg2012119-3,32,,ABN 11043 HNY1205A
Misc : wg2012119,,ical21680
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 21 07:31:33 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:32:15 2024
Response via : Initial Calibration

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | IS1_1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 77 | 0.00 |
| 2 | t | n-Nitrosodimethylamine | 0.630 | 0.710 | -12.7 | 89 | 0.00 |
| 3 | t | Pyridine | 0.954 | 1.118 | -17.2 | 85 | 0.00 |
| 4 | S | 2-Fluorophenol | 1.028 | 1.055 | -2.6 | 81 | 0.00 |
| 5 | T | Aniline | 1.567 | 1.661 | -6.0 | 84 | 0.00 |
| 6 | t | 2-Chlorophenol | 1.225 | 1.292 | -5.5 | 83 | 0.00 |
| 7 | S | Phenol-d6 | 1.317 | 1.394 | -5.8 | 84 | 0.00 |
| 8 | T | Phenol | 1.421 | 1.460 | -2.7 | 81 | 0.00 |
| 9 | T | Bis(2-chloroethyl)ether | 1.017 | 1.019 | -0.2 | 80 | 0.00 |
| 10 | T | 1,3-Dichlorobenzene | 1.577 | 1.539 | 2.4 | 79 | 0.00 |
| 11 | T | 1,4-Dichlorobenzene | 1.610 | 1.565 | 2.8 | 79 | 0.00 |
| 12 | T | 1,2-Dichlorobenzene | 1.534 | 1.570 | -2.3 | 83 | 0.00 |
| 13 | t | Benzyl alcohol | 0.930 | 1.032 | -11.0 | 87 | 0.00 |
| 14 | T | Bis(2-chloroisopropyl)ether | 1.794 | 1.934 | -7.8 | 88 | 0.00 |
| 15 | T | 2-Methylphenol | 1.079 | 1.117 | -3.5 | 85 | 0.00 |
| 16 | T | Hexachloroethane | 0.589 | 0.602 | -2.2 | 86 | 0.00 |
| 17 | T | n-Nitrosodi-n-propylamine | 0.863 | 0.914 | -5.9 | 87 | 0.00 |
| 18 | T | 3-Methylphenol/4-Methylphen | 1.182 | 1.225 | -3.6 | 85 | 0.00 |
| 19 | S | Nitrobenzene-d5 | 1.195 | 1.331 | -11.4 | 87 | 0.00 |
| 20 | T | Nitrobenzene | 1.222 | 1.368 | -11.9 | 88 | 0.00 |
| 21 | T | Isophorone | 2.247 | 2.423 | -7.8 | 86 | 0.00 |
| 22 | T | 2-Nitrophenol | 0.619 | 0.711 | -14.9 | 92 | 0.00 |
| 23 | T | 2,4-Dimethylphenol | 1.101 | 1.176 | -6.8 | 86 | 0.00 |
| 24 | T | Bis(2-chloroethoxy)methane | 1.400 | 1.496 | -6.9 | 85 | 0.00 |
| 25 | T | 2,4-Dichlorophenol | 1.285 | 1.395 | -8.6 | 87 | 0.00 |
| 26 | T | 1,2,4-Trichlorobenzene | 1.555 | 1.580 | -1.6 | 83 | 0.00 |
| 37 | I | IS1_Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 83 | 0.00 |
| 38 | T | Naphthalene | 1.100 | 1.031 | 6.3 | 84 | 0.00 |
| 39 | T | Benzoic Acid | 0.228 | 0.253 | -11.0 | 102 | 0.00 |
| 40 | T | 4-Chloroaniline | 0.121 | 0.121 | 0.0 | 85 | 0.00 |
| 41 | T | Hexachlorobutadiene | 0.258 | 0.247 | 4.3 | 82 | 0.00 |
| 42 | T | p-Chloro-m-cresol | 0.290 | 0.295 | -1.7 | 88 | 0.00 |
| 43 | T | 2-Methylnaphthalene | 0.761 | 0.740 | 2.8 | 88 | 0.00 |
| 44 | T | 1-Methylnaphthalene | 0.242 | 0.234 | 3.3 | 84 | 0.00 |
| 45 | T | Hexachlorocyclopentadiene | 0.272 | 0.284 | -4.4 | 88 | 0.00 |
| 46 | T | 2,4,6-Trichlorophenol | 0.287 | 0.307 | -7.0 | 92 | 0.00 |
| 47 | T | 2,4,5-Trichlorophenol | 0.320 | 0.322 | -0.6 | 89 | 0.00 |
| 48 | S | 2-Fluorobiphenyl | 0.990 | 0.941 | 4.9 | 86 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241221RVT\
Data File : ABN1221.D
Acq On : 21 Dec 2024 6:27 am
Operator : Dakota:smz
Sample : wg2012119-3,32,,ABN 11043 HNY1205A
Misc : wg2012119,,ical21680
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 21 07:31:33 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:32:15 2024
Response via : Initial Calibration

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 2-Chloronaphthalene | 0.852 | 0.816 | 4.2 | 85 | 0.00 |
| 50 | T | 2-Nitroaniline | 0.218 | 0.236 | -8.3 | 91 | 0.00 |
| 51 | T | 1,4-Dinitrobenzene | 0.095 | 0.109 | -14.7 | 96 | 0.00 |
| 52 | T | 1,3-Dinitrobenzene | 0.113 | 0.123 | -8.8 | 89 | 0.00 |
| 53 | T | Dimethyl phthalate | 0.991 | 0.988 | 0.3 | 89 | 0.00 |
| 54 | T | Acenaphthylene | 1.252 | 1.255 | -0.2 | 88 | 0.00 |
| 55 | T | 2,6-Dinitrotoluene | 0.185 | 0.202 | -9.2 | 90 | 0.00 |
| 56 | T | 1,2-Dinitrobenzene | 0.066 | 0.072 | -9.1 | 85 | 0.00 |
| | | | | | | | |
| 65 | I | IS1_Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 66 | T | 3-Nitroaniline | 0.309 | 0.328 | -6.1 | 95 | 0.00 |
| 67 | T | Acenaphthene | 1.163 | 1.032 | 11.3 | 88 | 0.00 |
| 68 | T | 2,4-Dinitrophenol | 0.188 | 0.158 | 16.0 | 83 | 0.00 |
| 69 | T | Dibenzofuran | 2.006 | 1.791 | 10.7 | 88 | 0.00 |
| 70 | T | 2,4-Dinitrotoluene | 0.387 | 0.407 | -5.2 | 91 | 0.00 |
| 71 | T | 4-Nitrophenol | 0.230 | 0.262 | -13.9 | 101 | 0.00 |
| 72 | T | 2,3,5,6-Tetrachlorophenol | 0.436 | 0.455 | -4.4 | 96 | 0.00 |
| 73 | T | 2,3,4,6-Tetrachlorophenol | 0.428 | 0.431 | -0.7 | 94 | 0.00 |
| 74 | T | Diethyl phthalate | 1.575 | 1.492 | 5.3 | 94 | 0.00 |
| 75 | T | Fluorene | 1.536 | 1.404 | 8.6 | 89 | 0.00 |
| 76 | T | 4-Chlorophenyl phenyl ether | 0.792 | 0.701 | 11.5 | 87 | 0.00 |
| 77 | T | 4-Nitroaniline | 0.299 | 0.323 | -8.0 | 93 | 0.00 |
| 78 | T | 4,6-Dinitro-o-cresol | 0.234 | 0.241 | -3.0 | 90 | 0.00 |
| 79 | T | NDPA/DPA | 1.337 | 1.190 | 11.0 | 88 | 0.00 |
| 80 | T | Azobenzene | 1.281 | 1.280 | 0.1 | 95 | 0.00 |
| 81 | S | 2,4,6-Tribromophenol | 0.286 | 0.320 | -11.9 | 106 | 0.00 |
| 82 | T | 4-Bromophenyl phenyl ether | 0.522 | 0.468 | 10.3 | 89 | 0.00 |
| 83 | T | Hexachlorobenzene | 0.656 | 0.617 | 5.9 | 95 | 0.00 |
| 84 | T | Pentachlorophenol | 0.356 | 0.416 | -16.9 | 105 | 0.00 |
| | | | | | | | |
| 90 | I | IS1_Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 91 | T | Phenanthrene | 1.183 | 1.054 | 10.9 | 90 | 0.00 |
| 92 | T | Anthracene | 1.160 | 1.057 | 8.9 | 91 | 0.00 |
| 93 | T | Carbazole | 1.064 | 0.987 | 7.2 | 90 | 0.00 |
| 94 | T | Di-n-butylphthalate | 1.207 | 1.190 | 1.4 | 93 | 0.00 |
| 95 | T | Fluoranthene | 1.422 | 1.334 | 6.2 | 94 | 0.00 |
| 96 | T | Benzidine | 0.772 | 0.780 | -1.0 | 90 | 0.00 |
| 97 | T | Pyrene | 1.520 | 1.411 | 7.2 | 92 | 0.00 |
| 98 | S | 4-Terphenyl-d14 | 1.157 | 1.041 | 10.0 | 91 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241221RVT\
Data File : ABN1221.D
Acq On : 21 Dec 2024 6:27 am
Operator : Dakota:smz
Sample : wg2012119-3,32,,ABN 11043 HNY1205A
Misc : wg2012119,,ical21680
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 21 07:31:33 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:32:15 2024
Response via : Initial Calibration

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 99 | T | Butyl benzyl phthalate | 0.517 | 0.542 | -4.8 | 97 | 0.00 |
| 106 | I | IS1_Chrysene-d12 | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 107 | T | Benzo(a)anthracene | 1.355 | 1.213 | 10.5 | 91 | 0.00 |
| 108 | T | 3,3'-Dichlorobenzidine | 0.505 | 0.491 | 2.8 | 92 | 0.00 |
| 109 | T | Chrysene | 1.349 | 1.166 | 13.6 | 89 | 0.00 |
| 110 | T | Bis(2-ethylhexyl)phthalate | 0.726 | 0.753 | -3.7 | 97 | 0.00 |
| 111 | T | Di-n-octylphthalate | 1.212 | 1.264 | -4.3 | 97 | 0.00 |
| 112 | T | Benzo(b)fluoranthene | 1.420 | 1.363 | 4.0 | 97 | 0.00 |
| 113 | T | Benzo(k)fluoranthene | 1.383 | 1.266 | 8.5 | 88 | 0.00 |
| 114 | T | Benzo(a)pyrene | 1.267 | 1.219 | 3.8 | 93 | 0.00 |
| 115 | I | IS1_Perylene-d12 | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 116 | T | Indeno(1,2,3-cd)pyrene | 1.234 | 1.097 | 11.1 | 90 | 0.00 |
| 117 | T | Dibenzo(a,h)anthracene | 1.213 | 1.063 | 12.4 | 87 | 0.00 |
| 118 | T | Benzo(ghi)perylene | 1.192 | 1.062 | 10.9 | 91 | 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\241221RVT\
Data File : ABN1221.D
Acq On : 21 Dec 2024 6:27 am
Operator : Dakota:smz
Sample : wg2012119-3,32,,ABN 11043 HNY1205A
Misc : wg2012119,,ical21680
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 21 07:31:33 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:32:15 2024
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... | 3.630 | 152 | 22385 | 4.000 | ug/ml | 0.00 |
| 37) IS1_Naphthalene-d8 | 4.889 | 136 | 89532 | 4.000 | ug/ml | # 0.00 |
| 65) IS1_Acenaphthene-d10 | 6.571 | 164 | 62636 | 4.000 | ug/ml | 0.00 |
| 90) IS1_Phenanthrene-d10 | 7.963 | 188 | 138966 | 4.000 | ug/ml | 0.00 |
| 106) IS1_Chrysene-d12 | 10.468 | 240 | 162401 | 4.000 | ug/ml | 0.00 |
| 115) IS1_Perylene-d12 | 11.814 | 264 | 195179 | 4.000 | ug/ml | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 2.213 | 112 | 29514 | 5.129 | ug/ml | 0.00 |
| Spiked Amount 2.000 | Range 15 - 110 | | Recovery = | 256.45%# | | |
| 7) Phenol-d6 | 3.357 | 99 | 39009 | 5.293 | ug/ml | 0.00 |
| Spiked Amount 2.000 | Range 15 - 110 | | Recovery = | 264.65%# | | |
| 19) Nitrobenzene-d5 | 4.205 | 82 | 37244 | 5.569 | ug/ml | 0.00 |
| Spiked Amount 1.000 | Range 30 - 130 | | Recovery = | 556.90%# | | |
| 48) 2-Fluorobiphenyl | 5.977 | 172 | 105339 | 4.754 | ug/ml | 0.00 |
| Spiked Amount 1.000 | Range 30 - 130 | | Recovery = | 475.40%# | | |
| 81) 2,4,6-Tribromophenol | 7.323 | 330 | 25032 | 5.591 | ug/ml | 0.00 |
| Spiked Amount 2.000 | Range 15 - 110 | | Recovery = | 279.55%# | | |
| 98) 4-Terphenyl-d14 | 9.533 | 244 | 180747 | 4.495 | ug/ml | 0.00 |
| Spiked Amount 1.000 | Range 30 - 130 | | Recovery = | 449.50%# | | |

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|---|---|---|---|---|---|---|
| 2) n-Nitrosodimethylamine | 1.016 | 74 | 19874 | 5.635 | ug/ml# | 82 |
| 3) Pyridine | 1.032 | 79 | 31289 | 5.861 | ug/ml# | 61 |
| 5) Aniline | 3.304 | 93 | 46475 | 5.301 | ug/ml | 98 |
| 6) 2-Chlorophenol | 3.416 | 128 | 36164 | 5.275 | ug/ml | 90 |
| 8) Phenol | 3.369 | 94 | 40865 | 5.140 | ug/ml | 99 |
| 9) Bis(2-chloroethyl)ether | 3.416 | 93 | 28501 | 5.006 | ug/ml# | 65 |
| 10) 1,3-Dichlorobenzene | 3.565 | 146 | 43074 | 4.882 | ug/ml | 93 |
| 11) 1,4-Dichlorobenzene | 3.646 | 146 | 43783 | 4.860 | ug/ml | 93 |
| 12) 1,2-Dichlorobenzene | 3.798 | 146 | 43934 | 5.117 | ug/ml | 94 |
| 13) Benzyl alcohol | 3.826 | 79 | 28869 | 5.546 | ug/ml | 98 |
| 14) Bis(2-chloroisopropyl)... | 3.978 | 45 | 54113 | 5.390 | ug/ml# | 65 |
| 15) 2-Methylphenol | 3.988 | 108 | 31243 | 5.172 | ug/ml | 99 |
| 16) Hexachloroethane | 4.128 | 117 | 16845 | 5.107 | ug/ml# | 56 |
| 17) n-Nitrosodi-n-propylamine | 4.109 | 70 | 25565 | 5.296 | ug/ml# | 86 |
| 18) 3-Methylphenol/4-Methy... | 4.156 | 108 | 34270 | 5.179 | ug/ml | 97 |
| 20) Nitrobenzene | 4.224 | 77 | 38271 | 5.595 | ug/ml | 96 |
| 21) Isophorone | 4.479 | 82 | 67805 | 5.392 | ug/ml# | 92 |
| 22) 2-Nitrophenol | 4.544 | 139 | 19905 | 5.748 | ug/ml | 88 |

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241221RVT\
Data File : ABN1221.D
Acq On : 21 Dec 2024 6:27 am
Operator : Dakota:smz
Sample : wg2012119-3,32,,ABN 11043 HNY1205A
Misc : wg2012119,,ical21680
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 21 07:31:33 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:32:15 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 23) 2,4-Dimethylphenol | 4.665 | 107 | 32916 | 5.344 ug/ml | 98 |
| 24) Bis(2-chloroethoxy)met... | 4.746 | 93 | 41853 | 5.343 ug/ml# | 94 |
| 25) 2,4-Dichlorophenol | 4.793 | 162 | 39041 | 5.429 ug/ml# | 92 |
| 26) 1,2,4-Trichlorobenzene | 4.858 | 180 | 44209 | 5.080 ug/ml | 97 |
| 38) Naphthalene | 4.911 | 128 | 115440 | 4.688 ug/ml | 100 |
| 39) Benzoic Acid | 4.783 | 105 | 28332 | 5.558 ug/ml | 92 |
| 40) 4-Chloroaniline | 5.010 | 65 | 13581 | 5.018 ug/ml# | 73 |
| 41) Hexachlorobutadiene | 5.082 | 225 | 27616 | 4.775 ug/ml | 98 |
| 42) p-Chloro-m-cresol | 5.539 | 107 | 33016 | 5.089 ug/ml | 93 |
| 43) 2-Methylnaphthalene | 5.592 | 142 | 82841 | 4.862 ug/ml | 96 |
| 44) 1-Methylnaphthalene | 5.682 | 115 | 26168 | 4.830 ug/ml | 94 |
| 45) Hexachlorocyclopentadiene | 5.769 | 237 | 31752 | 5.211 ug/ml | 100 |
| 46) 2,4,6-Trichlorophenol | 5.893 | 196 | 34385 | 5.360 ug/ml | 98 |
| 47) 2,4,5-Trichlorophenol | 5.921 | 196 | 36018 | 5.022 ug/ml | 99 |
| 49) 2-Chloronaphthalene | 6.045 | 162 | 91293 | 4.785 ug/ml | 93 |
| 50) 2-Nitroaniline | 6.176 | 138 | 26422 | 5.412 ug/ml# | 79 |
| 51) 1,4-Dinitrobenzene | 6.316 | 168 | 12239 | 5.771 ug/ml | 91 |
| 52) 1,3-Dinitrobenzene | 6.390 | 168 | 13725 | 5.403 ug/ml# | 1 |
| 53) Dimethyl phthalate | 6.400 | 163 | 110586 | 4.986 ug/ml# | 97 |
| 54) Acenaphthylene | 6.428 | 152 | 140477 | 5.014 ug/ml | 99 |
| 55) 2,6-Dinitrotoluene | 6.431 | 165 | 22583 | 5.455 ug/ml | 90 |
| 56) 1,2-Dinitrobenzene | 6.462 | 168 | 8031 | 5.417 ug/ml# | 85 |
| 66) 3-Nitroaniline | 6.574 | 138 | 25644 | 5.302 ug/ml | 84 |
| 67) Acenaphthene | 6.602 | 154 | 80810 | 4.436 ug/ml | 87 |
| 68) 2,4-Dinitrophenol | 6.676 | 184 | 12388 | 4.206 ug/ml# | 85 |
| 69) Dibenzofuran | 6.770 | 168 | 140226 | 4.464 ug/ml | 91 |
| 70) 2,4-Dinitrotoluene | 6.807 | 165 | 31880 | 5.258 ug/ml# | 87 |
| 71) 4-Nitrophenol | 6.798 | 65 | 20496 | 5.684 ug/ml# | 86 |
| 72) 2,3,5,6-Tetrachlorophenol | 6.872 | 232 | 35615 | 5.212 ug/ml | 97 |
| 73) 2,3,4,6-Tetrachlorophenol | 6.916 | 232 | 33712 | 5.032 ug/ml | 98 |
| 74) Diethyl phthalate | 7.083 | 149 | 116844 | 4.739 ug/ml | 97 |
| 75) Fluorene | 7.093 | 166 | 109890 | 4.568 ug/ml | 92 |
| 76) 4-Chlorophenyl phenyl ... | 7.133 | 204 | 54892 | 4.427 ug/ml# | 87 |
| 77) 4-Nitroaniline | 7.146 | 138 | 25258 | 5.402 ug/ml# | 78 |
| 78) 4,6-Dinitro-o-cresol | 7.186 | 198 | 18867 | 5.148 ug/ml# | 62 |
| 79) NDPA/DPA | 7.254 | 169 | 93152 | 4.451 ug/ml | 92 |
| 80) Azobenzene | 7.276 | 77 | 100256 | 4.999 ug/ml | 94 |
| 82) 4-Bromophenyl phenyl e... | 7.587 | 248 | 36651 | 4.488 ug/ml# | 80 |
| 83) Hexachlorobenzene | 7.618 | 284 | 48297 | 4.699 ug/ml# | 79 |
| 84) Pentachlorophenol | 7.820 | 266 | 32562 | 5.844 ug/ml | 100 |
| 91) Phenanthrene | 7.982 | 178 | 183092 | 4.456 ug/ml | 99 |

Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241221RVT\
Data File : ABN1221.D
Acq On    : 21 Dec 2024   6:27 am
Operator  : Dakota:smz
Sample    : wg2012119-3,32,,ABN 11043 HNY1205A
Misc      : wg2012119,,ical21680
ALS Vial  : 96   Sample Multiplier: 1

Quant Time: Dec 21 07:31:33 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:32:15 2024
Response via : Initial Calibration

Sub List     : ABNical - ABN ical sublist

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 92) | Anthracene | 8.031 | 178 | 183653 | 4.557 | ug/ml | 99 |
| 93) | Carbazole | 8.215 | 167 | 171397 | 4.635 | ug/ml | 98 |
| 94) | Di-n-butylphthalate | 8.653 | 149 | 206798 | 4.932 | ug/ml | 98 |
| 95) | Fluoranthene | 9.104 | 202 | 231703 | 4.689 | ug/ml# | 92 |
| 96) | Benzidine | 9.287 | 184 | 135466 | 5.052 | ug/ml# | 95 |
| 97) | Pyrene | 9.306 | 202 | 245156 | 4.643 | ug/ml | 99 |
| 99) | Butyl benzyl phthalate | 10.055 | 149 | 94114 | 5.241 | ug/ml# | 83 |
| 107) | Benzo(a)anthracene | 10.459 | 228 | 246146 | 4.473 | ug/ml | 99 |
| 108) | 3,3'-Dichlorobenzidine | 10.490 | 252 | 99754 | 4.866 | ug/ml# | 96 |
| 109) | Chrysene | 10.490 | 228 | 236622 | 4.320 | ug/ml | 97 |
| 110) | Bis(2-ethylhexyl)phtha... | 10.667 | 149 | 152847 | 5.182 | ug/ml# | 86 |
| 111) | Di-n-octylphthalate | 11.298 | 149 | 256542 | 5.215 | ug/ml# | 72 |
| 112) | Benzo(b)fluoranthene | 11.475 | 252 | 276597 | 4.798 | ug/ml# | 93 |
| 113) | Benzo(k)fluoranthene | 11.500 | 252 | 257041 | 4.577 | ug/ml# | 94 |
| 114) | Benzo(a)pyrene | 11.758 | 252 | 247484 | 4.811 | ug/ml# | 93 |
| 116) | Indeno(1,2,3-cd)pyrene | 12.722 | 276 | 267651 | 4.444 | ug/mL# | 89 |
| 117) | Dibenzo(a,h)anthracene | 12.756 | 278 | 259403 | 4.384 | ug/ml# | 89 |
| 118) | Benzo(ghi)perylene | 12.921 | 276 | 259145 | 4.455 | ug/ml# | 86 |

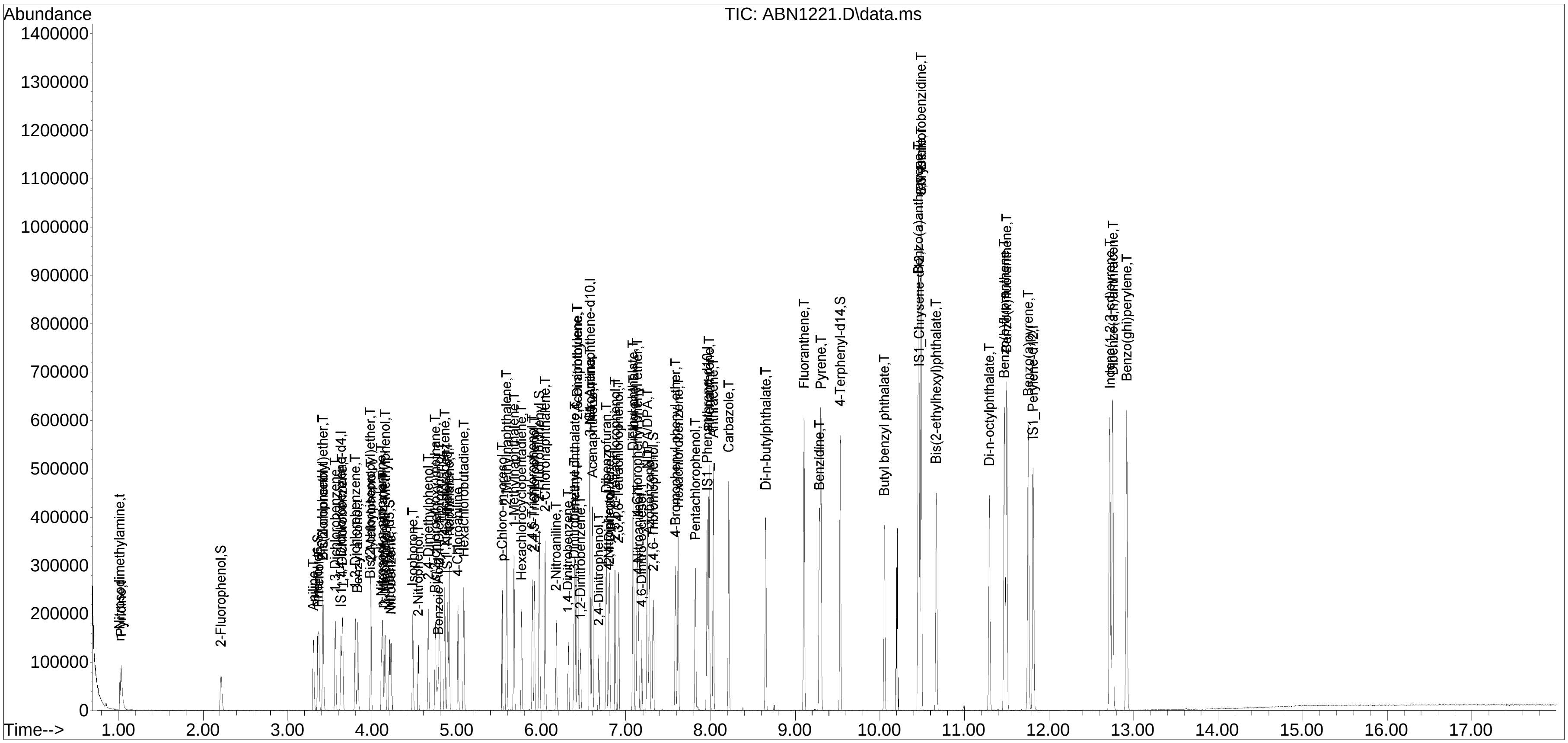
(#) = qualifier out of range (m) = manual integration (+) = signals summed

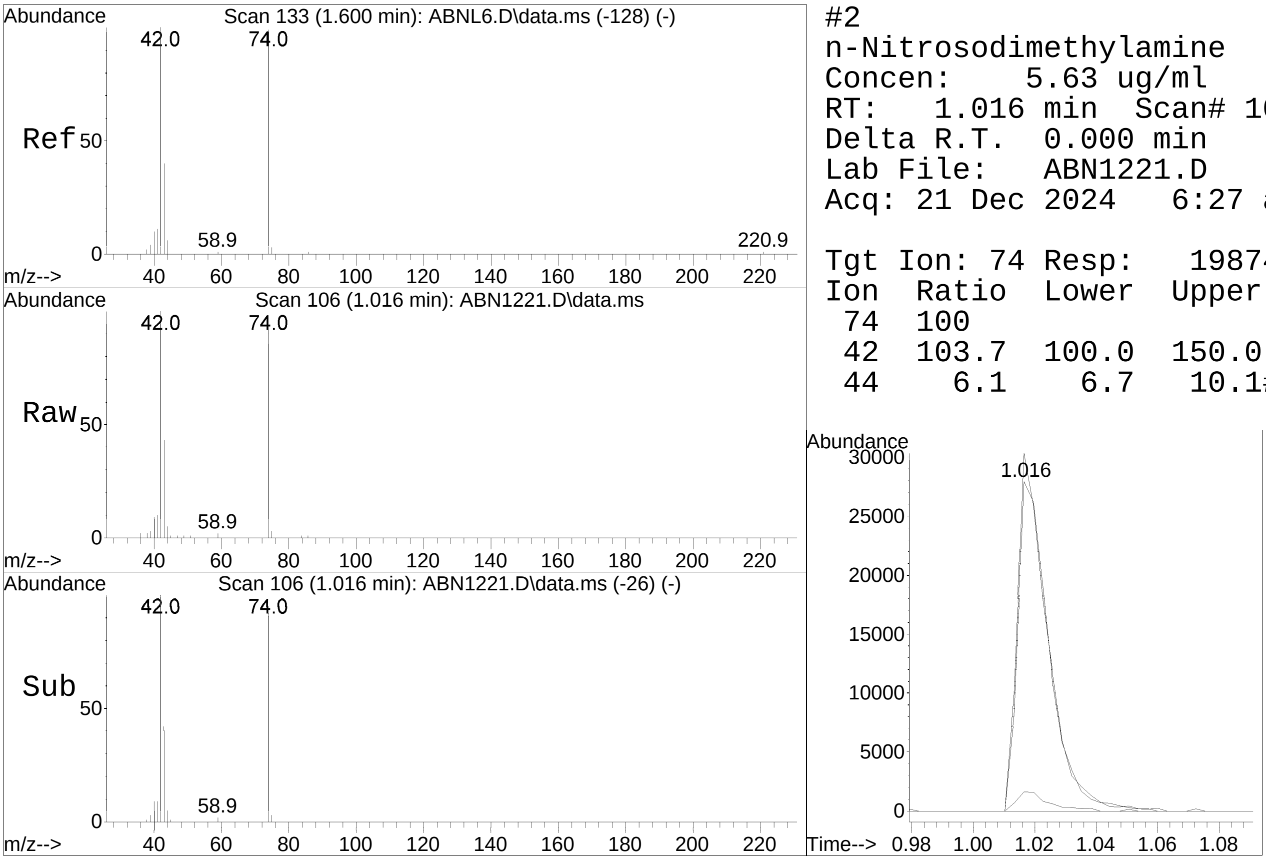
Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241221RVT\
Data File : ABN1221.D
Acq On    : 21 Dec 2024   6:27 am
Operator  : Dakota:smz
Sample    : wg2012119-3,32,,ABN 11043 HNY1205A
Misc      : wg2012119,,ical21680
ALS Vial  : 96   Sample Multiplier: 1

Quant Time: Dec 21 07:31:33 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:32:15 2024
Response via : Initial Calibration

Sub List     : ABNical - ABN ical sublist

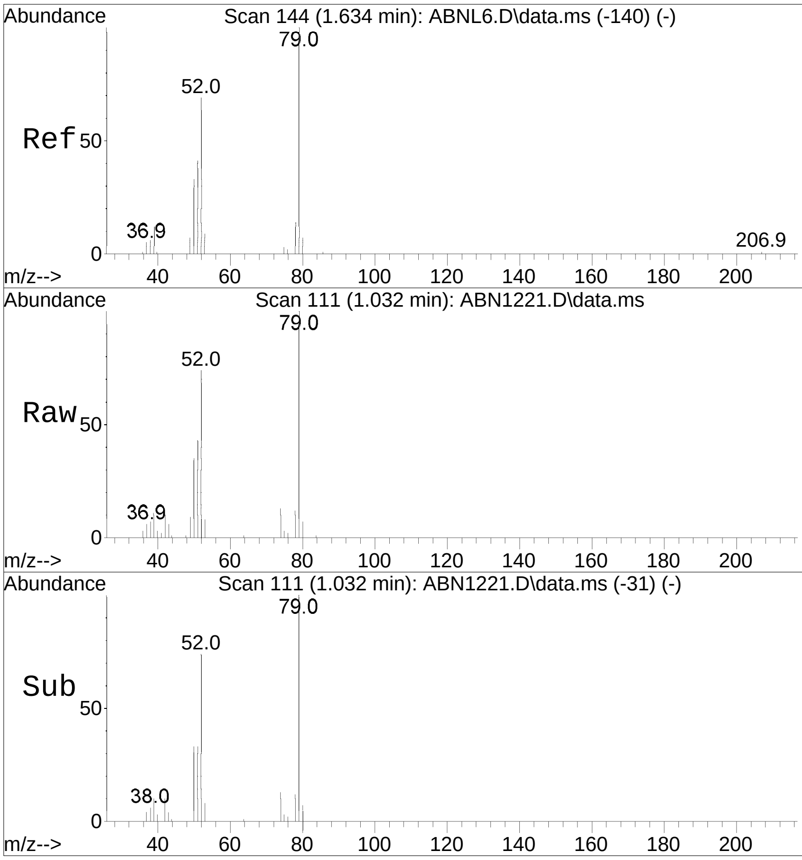





#2
n-Nitrosodimethylamine
Concen: 5.63 ug/ml
RT: 1.016 min Scan# 106
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion: 74 Resp: 19874

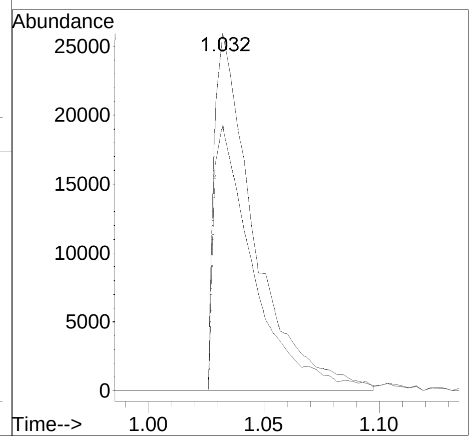
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 42 | 103.7 | 100.0 | 150.0 |
| 44 | 6.1 | 6.7 | 10.1# |

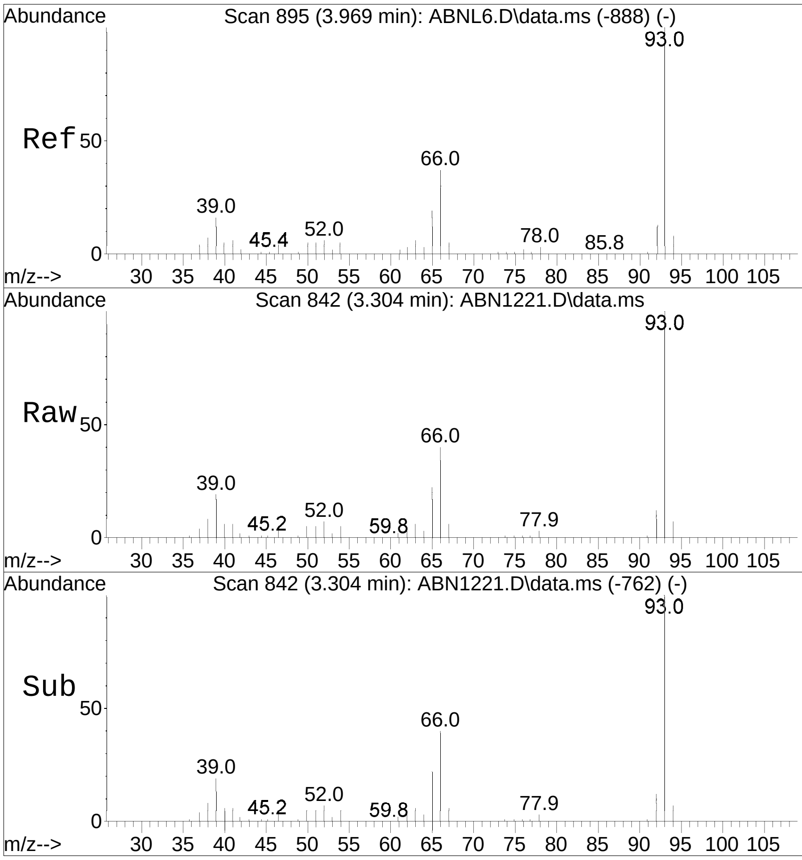



#3
Pyridine
Concen: 5.86 ug/ml
RT: 1.032 min Scan# 111
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion: 79 Resp: 31289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 74.1 | 93.1 | 139.7# |

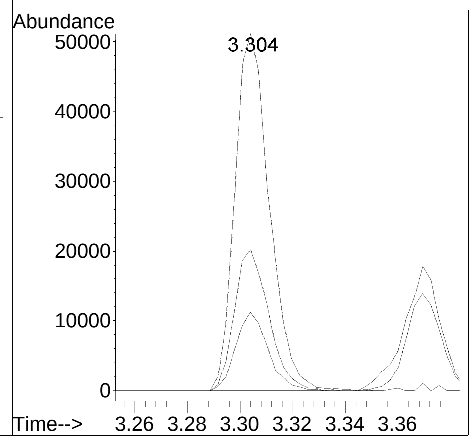


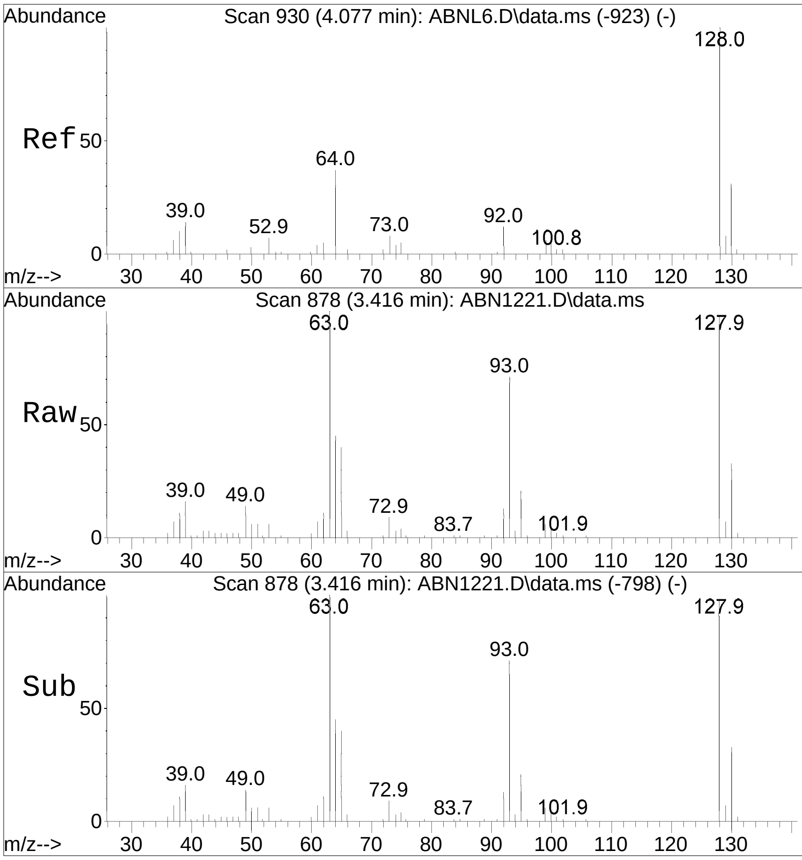



#5
Aniline
Concen: 5.30 ug/ml
RT: 3.304 min Scan# 842
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion: 93 Resp: 46475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 39.4 | 32.6 | 49.0 |
| 65 | 20.6 | 17.6 | 26.4 |

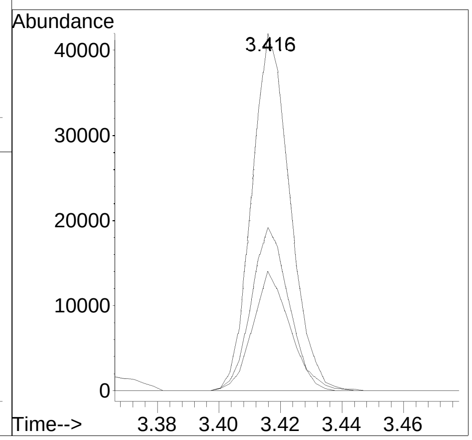


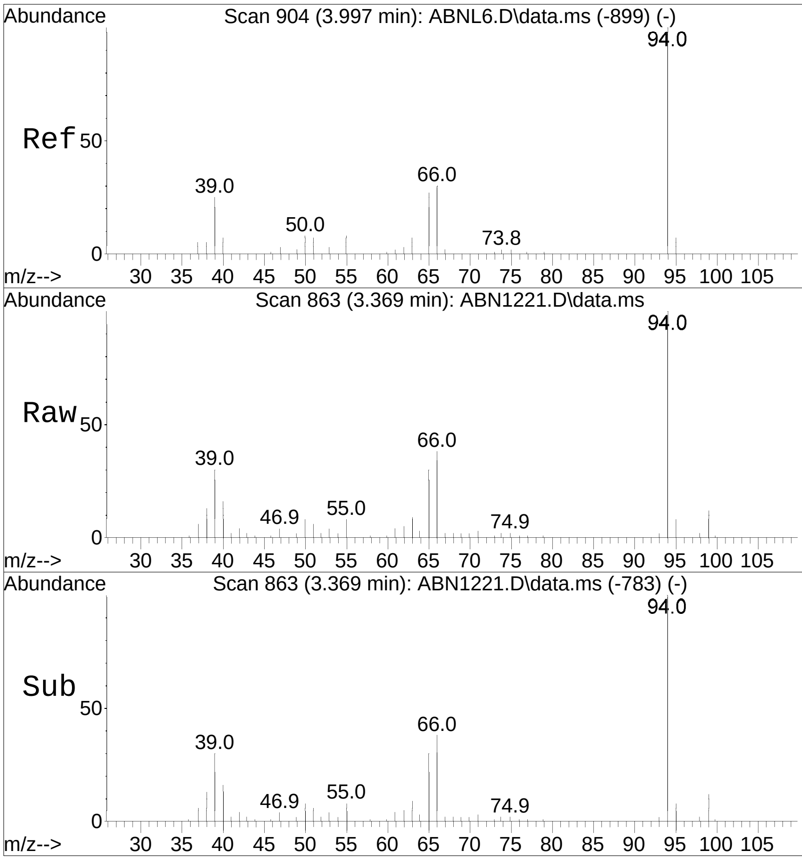



#6
2-Chlorophenol
Concen: 5.27 ug/ml
RT: 3.416 min Scan# 878
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:128 Resp: 36164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 64 | 45.6 | 45.1 | 67.7 |
| 130 | 32.2 | 26.2 | 39.4 |

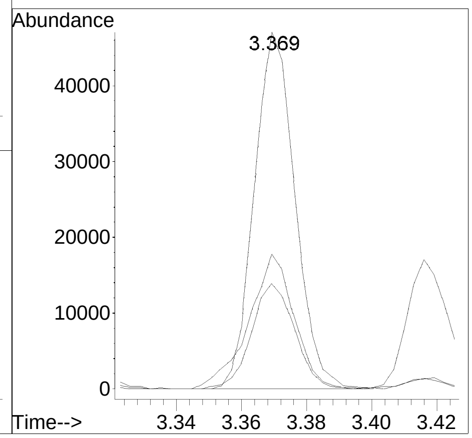


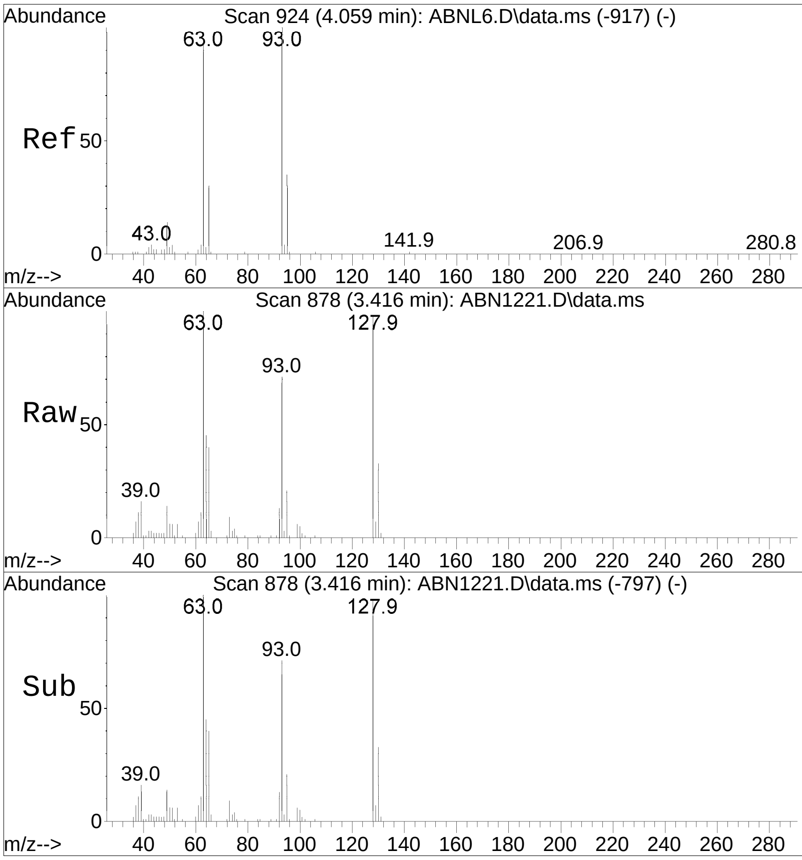



#8
Phenol
Concen: 5.14 ug/ml
RT: 3.369 min Scan# 863
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion: 94 Resp: 40865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 31.4 | 26.0 | 39.0 |
| 66 | 42.0 | 33.8 | 50.8 |

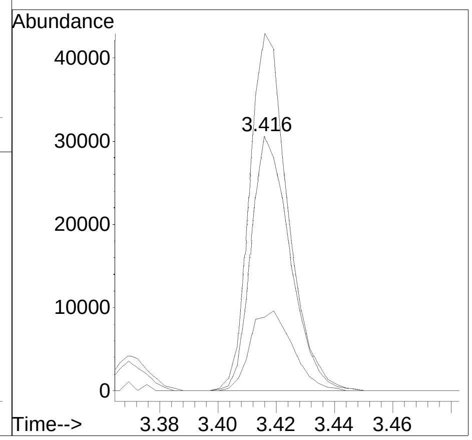


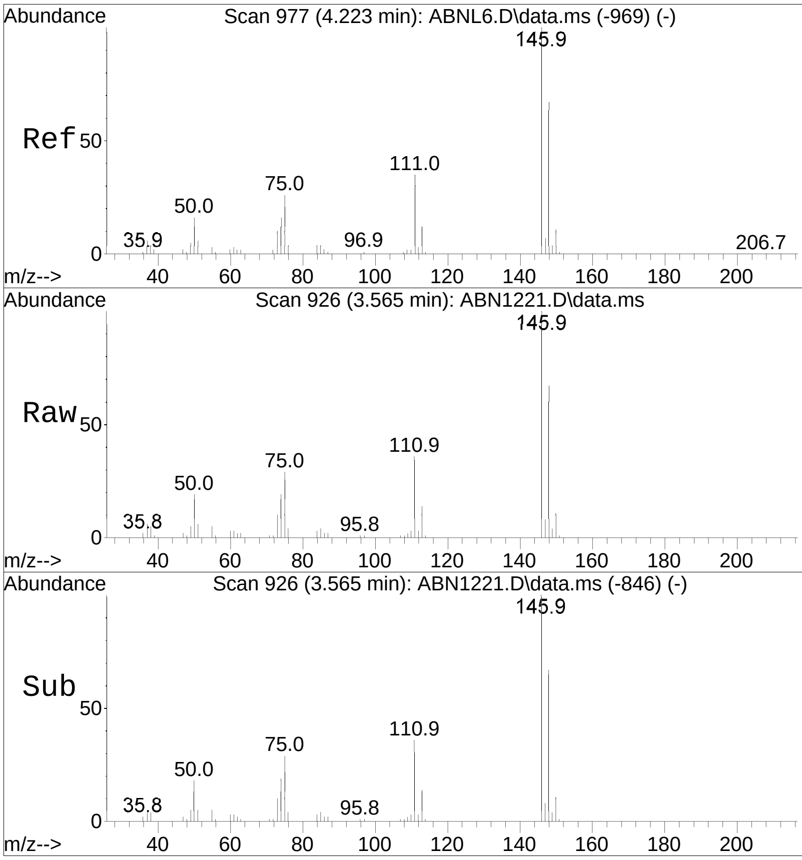



#9
Bis(2-chloroethyl)ether
Concen: 5.01 ug/ml
RT: 3.416 min Scan# 878
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion: 93 Resp: 28501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 137.6 | 74.6 | 111.8# |
| 95 | 34.1 | 25.9 | 38.9 |

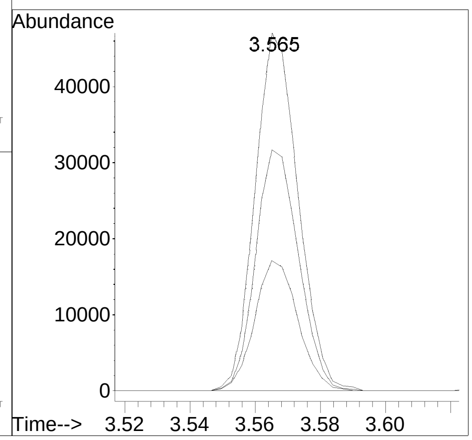


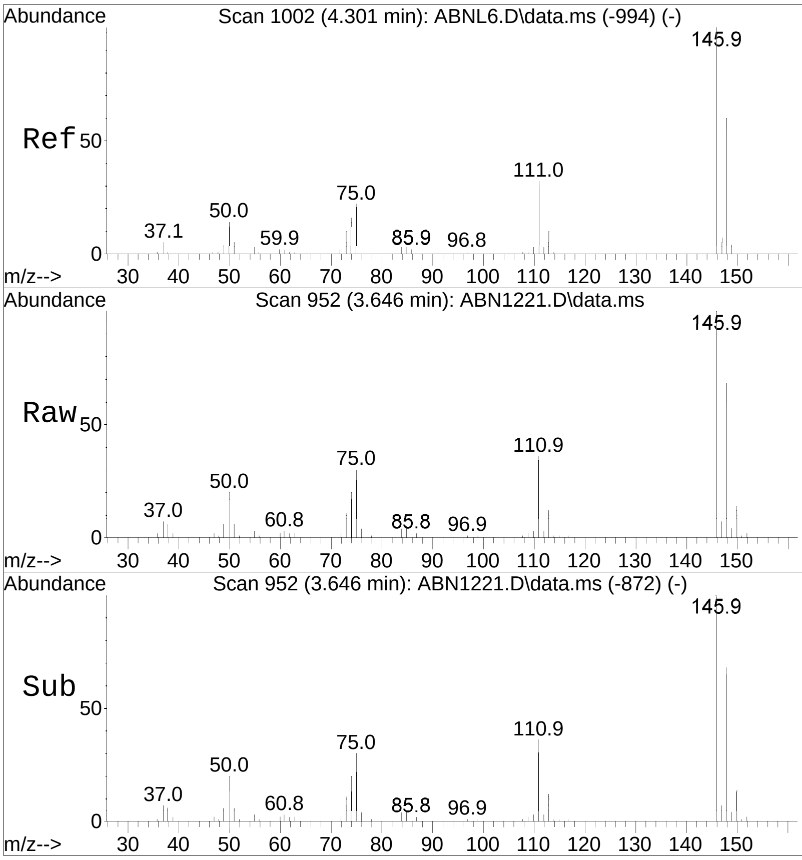



#10
1,3-Dichlorobenzene
Concen: 4.88 ug/ml
RT: 3.565 min Scan# 926
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:146 Resp: 43074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 36.6 | 34.3 | 51.5 |
| 148 | 67.4 | 50.8 | 76.2 |

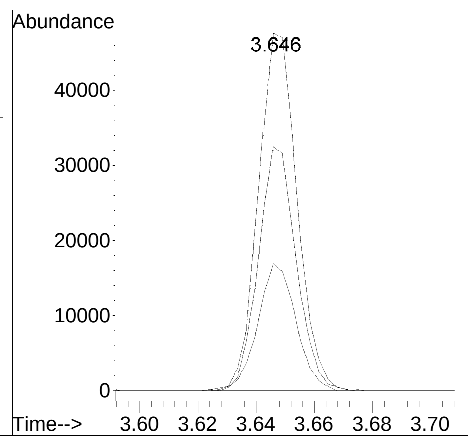


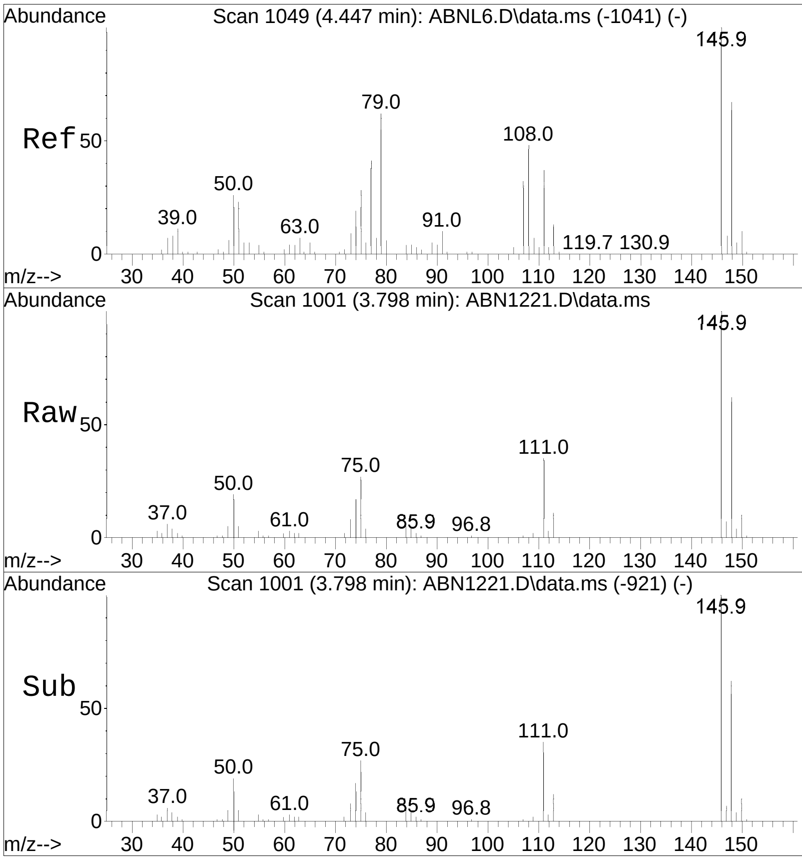



#11
1,4-Dichlorobenzene
Concen: 4.86 ug/ml
RT: 3.646 min Scan# 952
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:146 Resp: 43783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 66.9 | 50.7 | 76.1 |
| 111 | 35.3 | 33.4 | 50.0 |

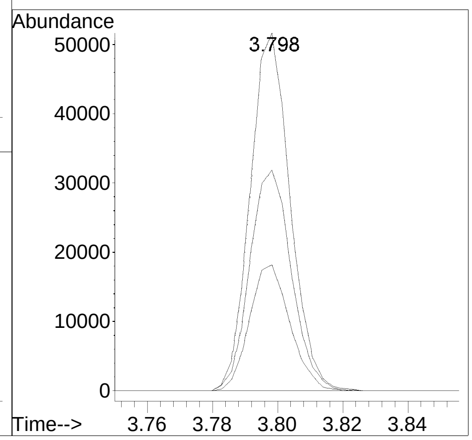


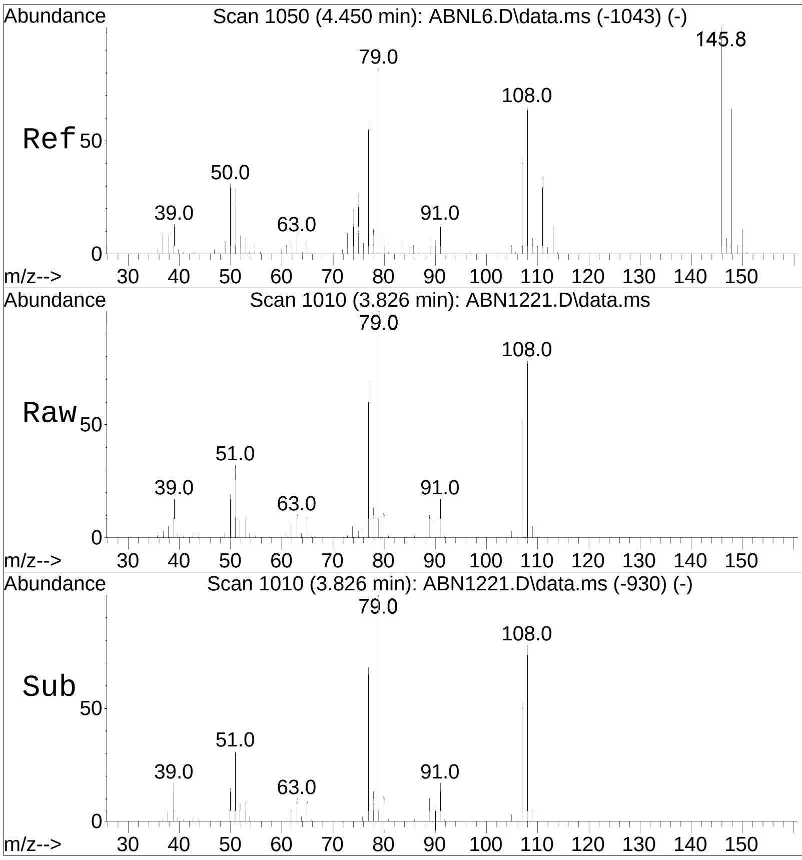



#12
1,2-Dichlorobenzene
Concen: 5.12 ug/ml
RT: 3.798 min Scan# 1001
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:146 Resp: 43934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 35.9 | 34.6 | 52.0 |
| 148 | 64.4 | 50.2 | 75.4 |

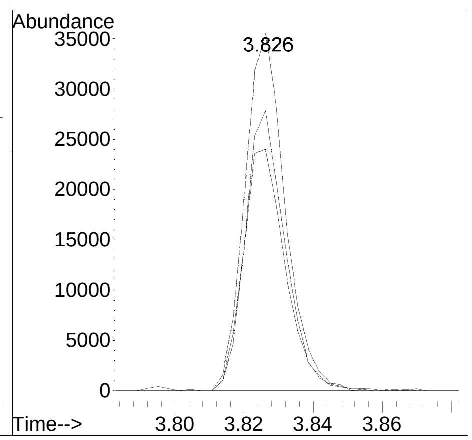


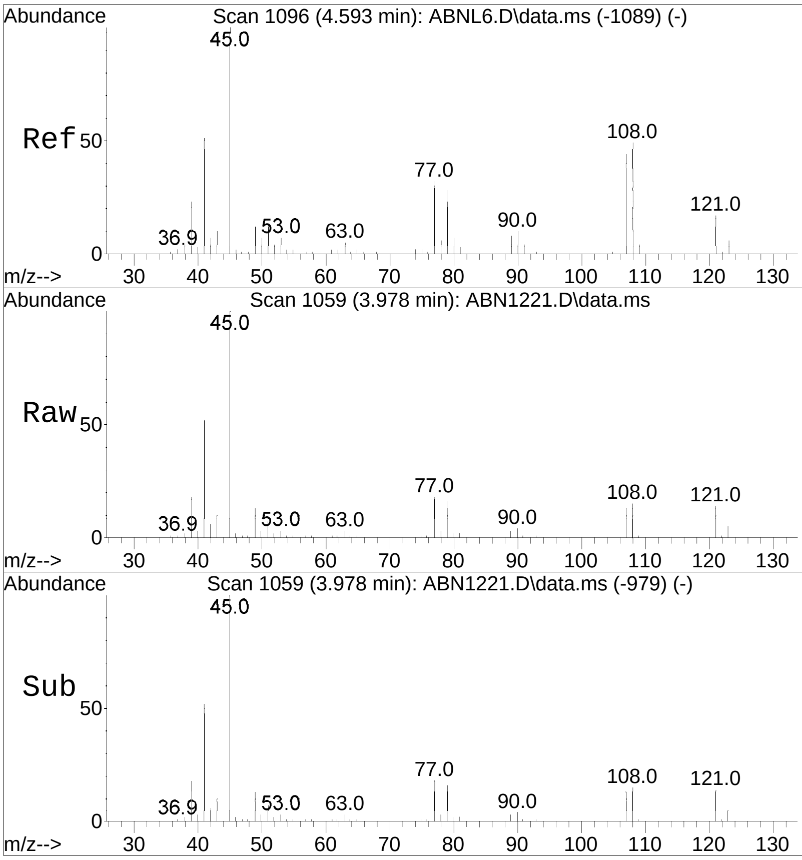



#13
Benzyl alcohol
Concen: 5.55 ug/ml
RT: 3.826 min Scan# 1010
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion: 79 Resp: 28869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 77 | 70.1 | 54.9 | 82.3 |
| 108 | 77.6 | 63.1 | 94.7 |

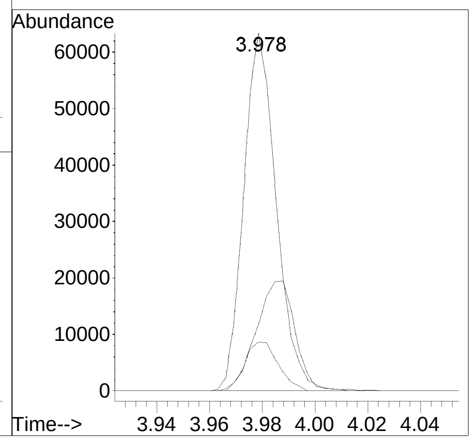


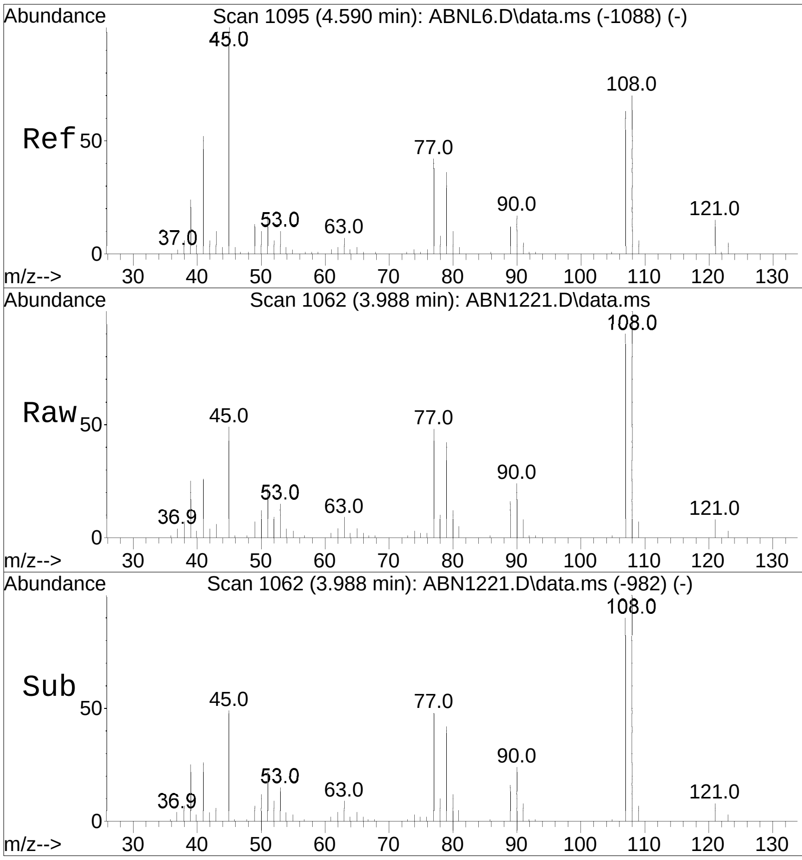



#14
Bis(2-chloroisopropyl)ether
Concen: 5.39 ug/ml
RT: 3.978 min Scan# 1059
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion: 45 Resp: 54113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 121 | 14.2 | 9.8 | 14.6 |
| 77 | 36.4 | 6.1 | 9.1# |

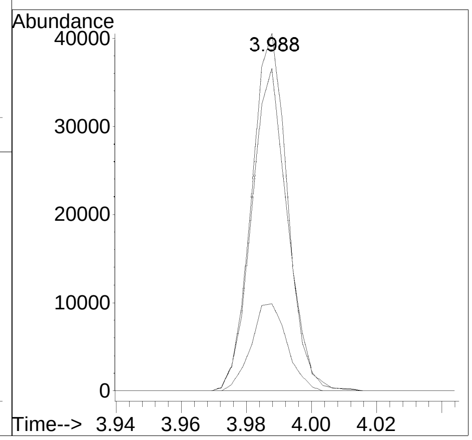


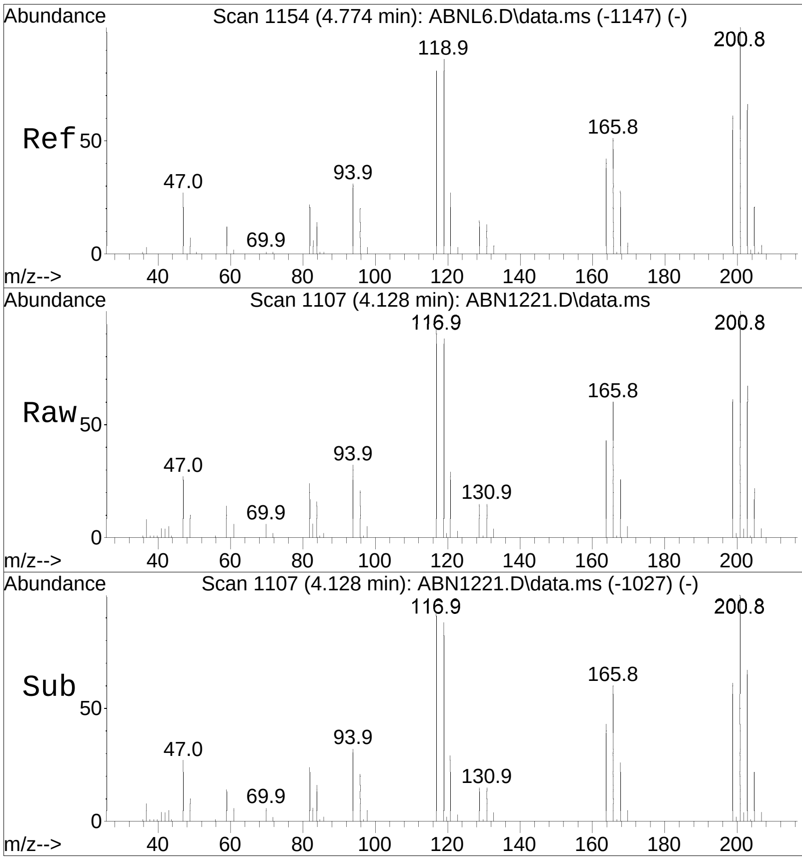



#15
2-Methylphenol
Concen: 5.17 ug/ml
RT: 3.988 min Scan# 1062
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:108 Resp: 31243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 107 | 89.5 | 70.7 | 106.1 |
| 90 | 24.3 | 18.7 | 28.1 |

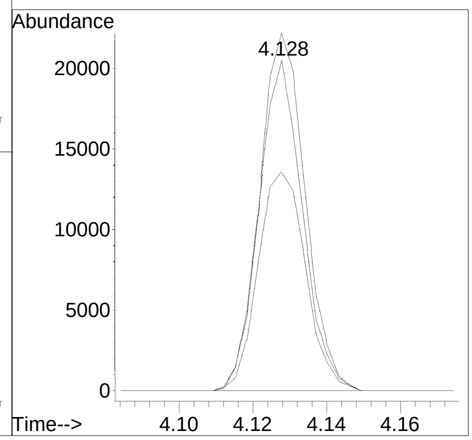


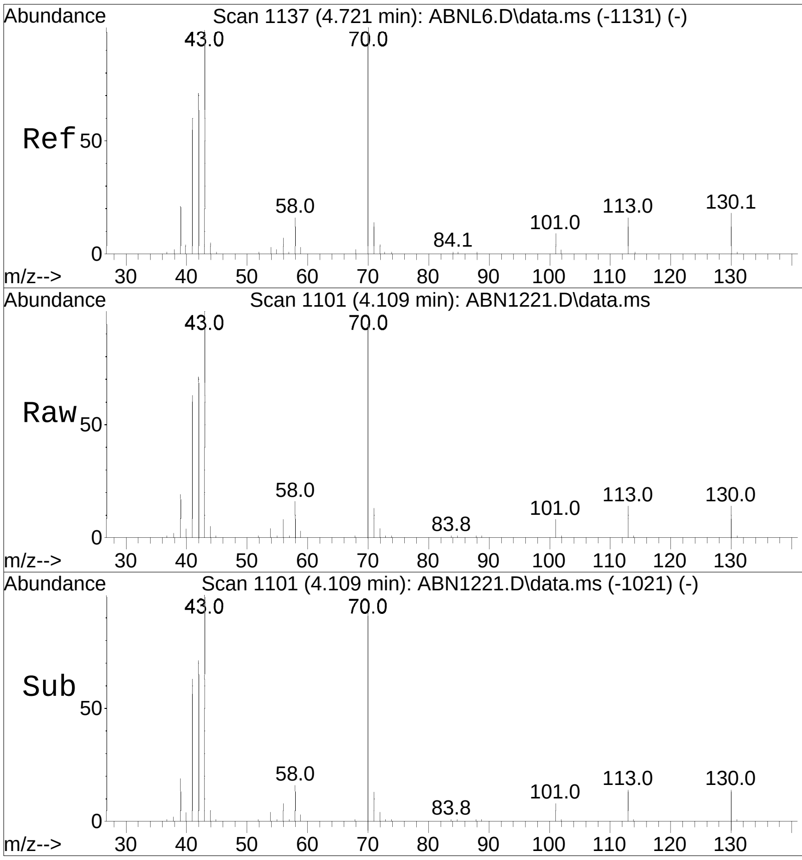



#16
Hexachloroethane
Concen:    5.11 ug/ml
RT:   4.128 min  Scan# 1107
Delta R.T.  0.000 min
Lab File:   ABN1221.D
Acq: 21 Dec 2024   6:27 am

Tgt Ion:117 Resp:   16845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 112.6 | 58.6 | 87.8# |
| 199 | 72.3 | 36.9 | 55.3# |

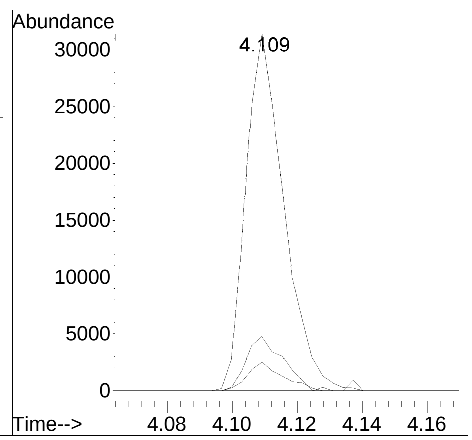


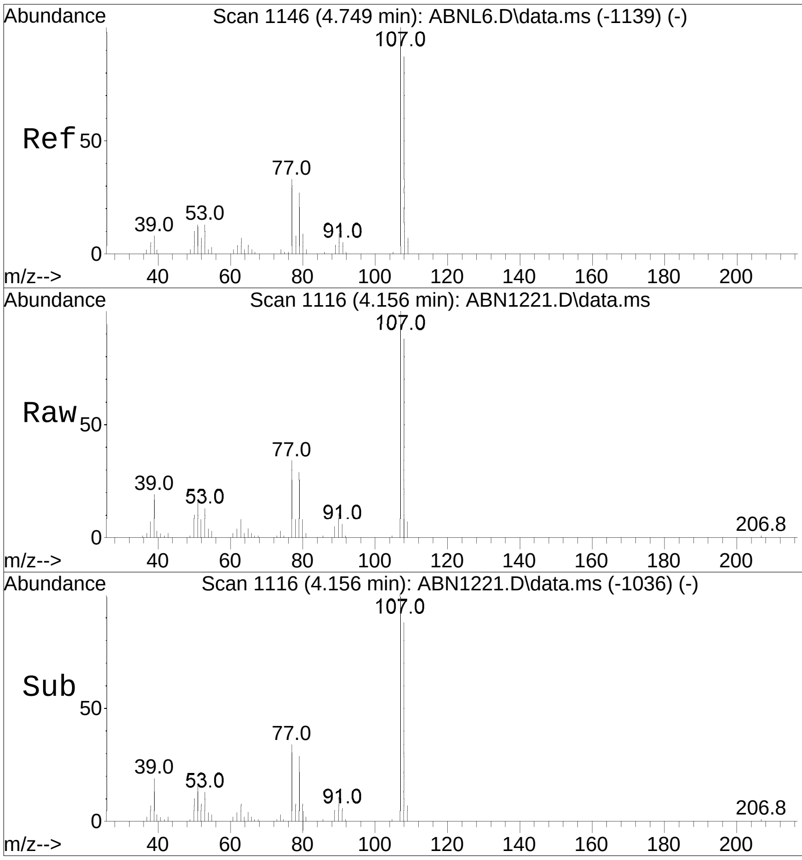



#17
n-Nitrosodi-n-propylamine
Concen: 5.30 ug/ml
RT: 4.109 min Scan# 1101
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion: 70 Resp: 25565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 130 | 14.7 | 18.2 | 27.4# |
| 101 | 7.3 | 7.8 | 11.8# |

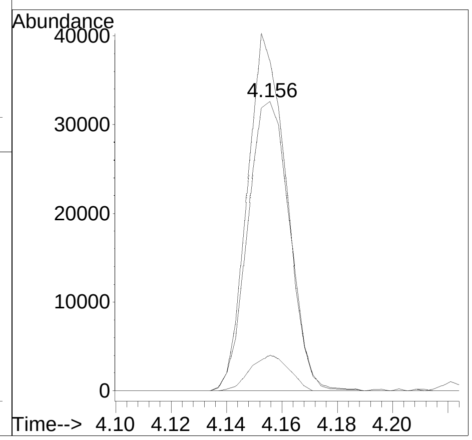


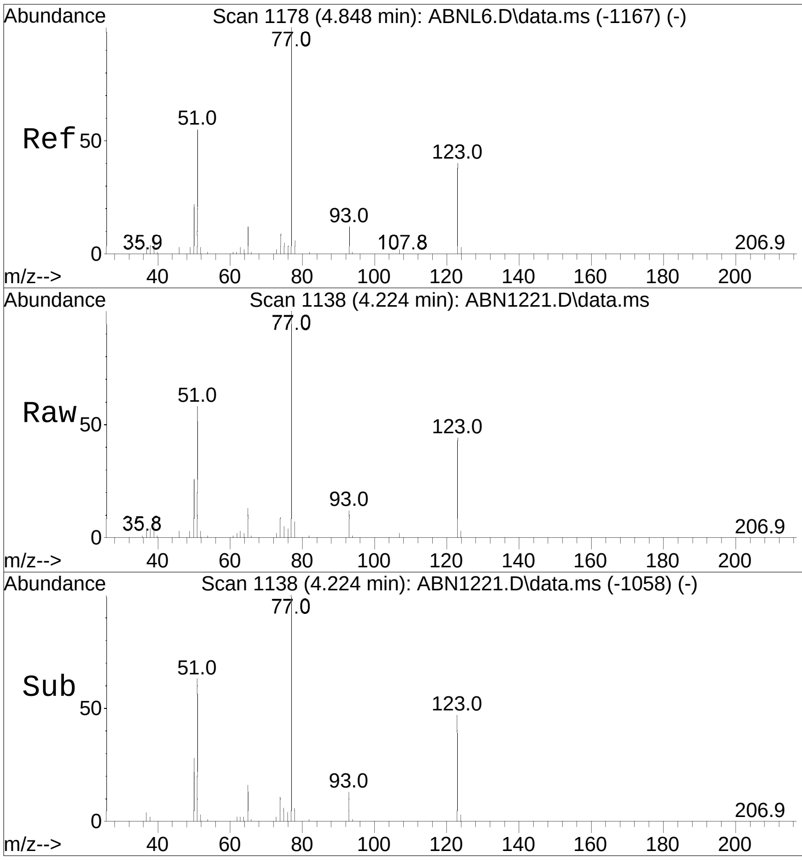



#18
3-Methylphenol/4-Methylphenol
Concen: 5.18 ug/ml
RT: 4.156 min Scan# 1116
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:108 Resp: 34270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 107 | 114.2 | 88.6 | 132.8 |
| 90 | 11.4 | 8.8 | 13.2 |

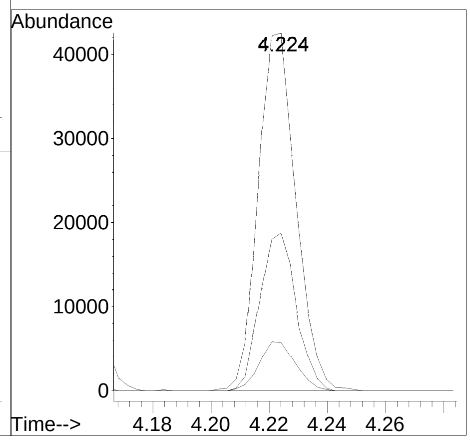


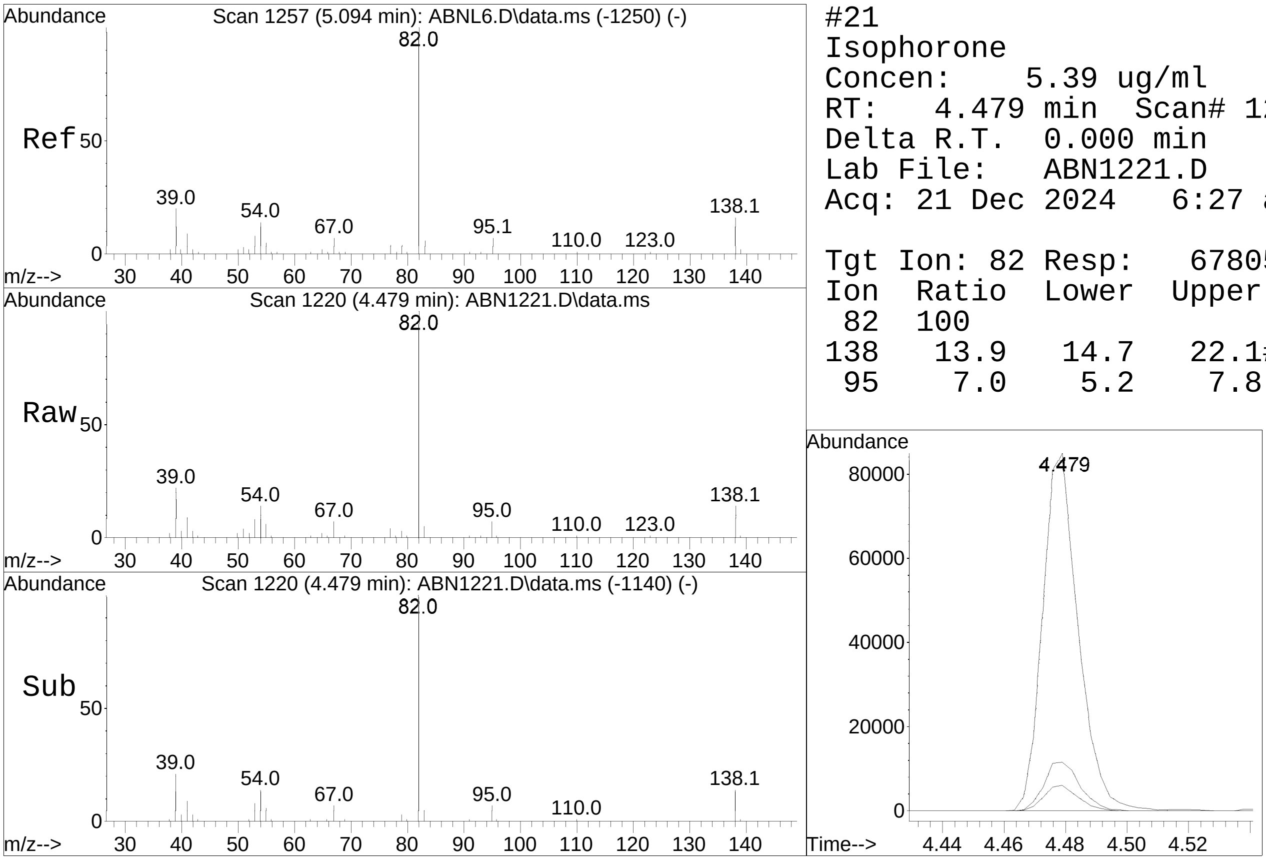



#20
Nitrobenzene
Concen: 5.60 ug/ml
RT: 4.224 min Scan# 1138
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion: 77 Resp: 38271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 42.5 | 36.3 | 54.5 |
| 65 | 13.3 | 11.6 | 17.4 |

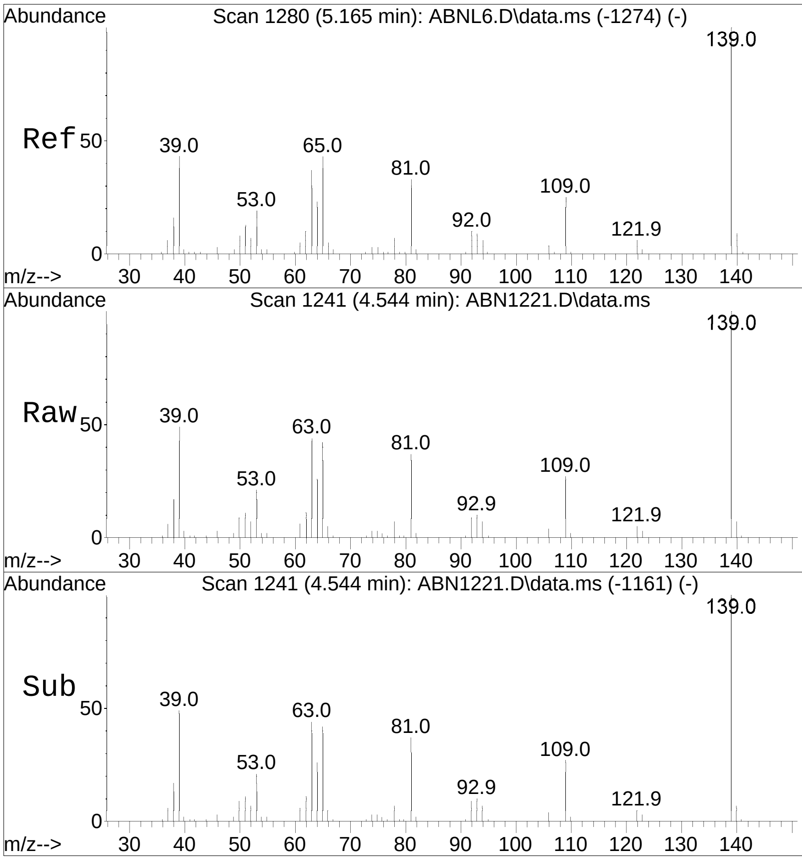





#21
Isophorone
Concen: 5.39 ug/ml
RT: 4.479 min Scan# 1220
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion: 82 Resp: 67805

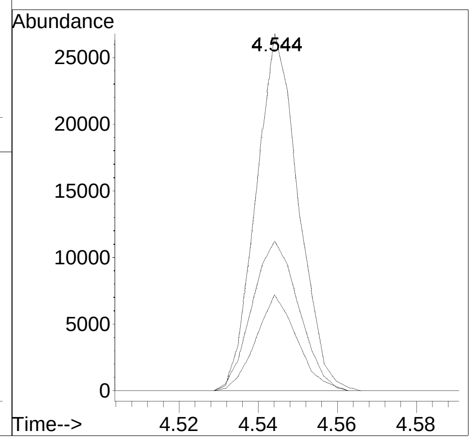
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 138 | 13.9 | 14.7 | 22.1# |
| 95 | 7.0 | 5.2 | 7.8 |

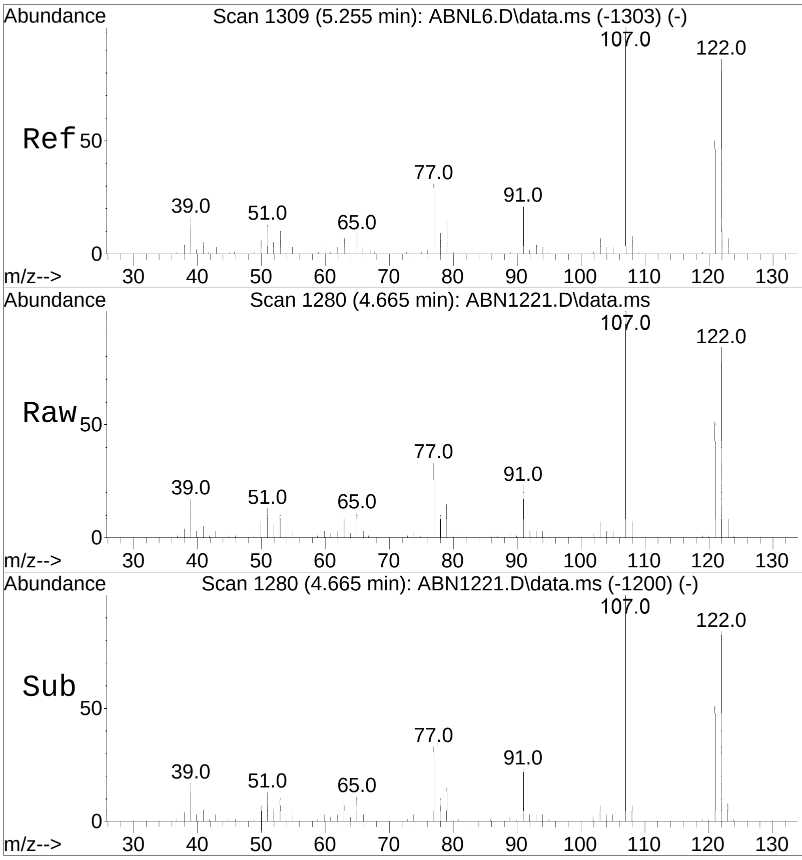



#22
2-Nitrophenol
Concen: 5.75 ug/ml
RT: 4.544 min Scan# 1241
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:139 Resp: 19905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 26.2 | 19.4 | 29.0 |
| 65 | 46.3 | 46.1 | 69.1 |

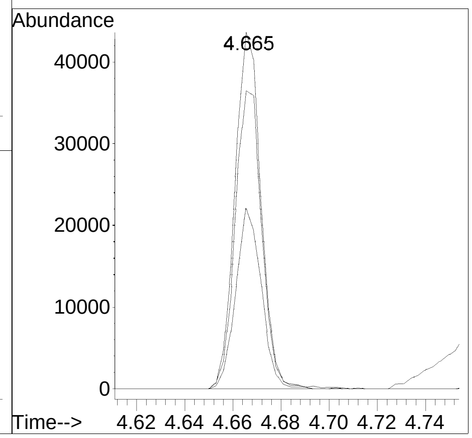


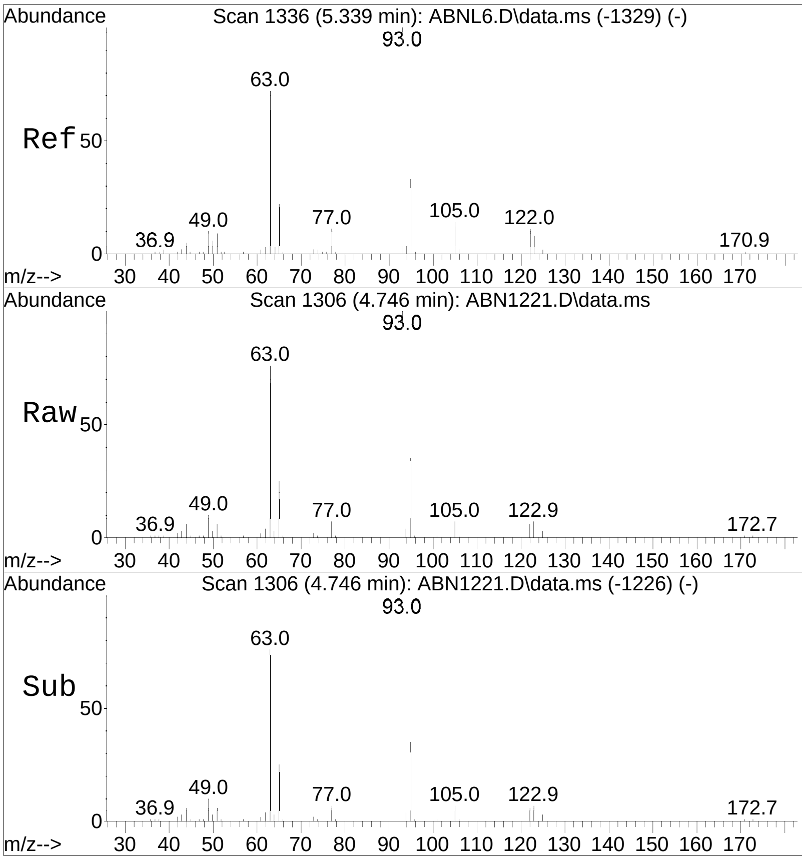



#23
2,4-Dimethylphenol
Concen: 5.34 ug/ml
RT: 4.665 min Scan# 1280
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:107 Resp: 32916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 121 | 49.7 | 40.0 | 60.0 |
| 122 | 85.0 | 70.2 | 105.4 |

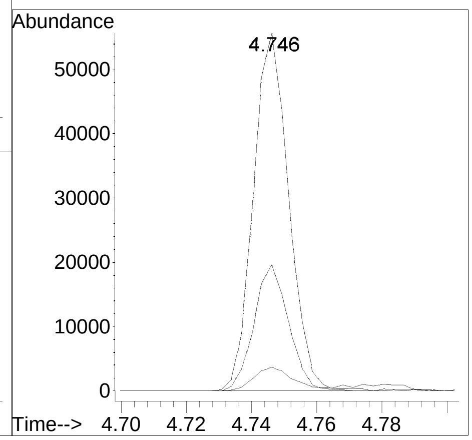


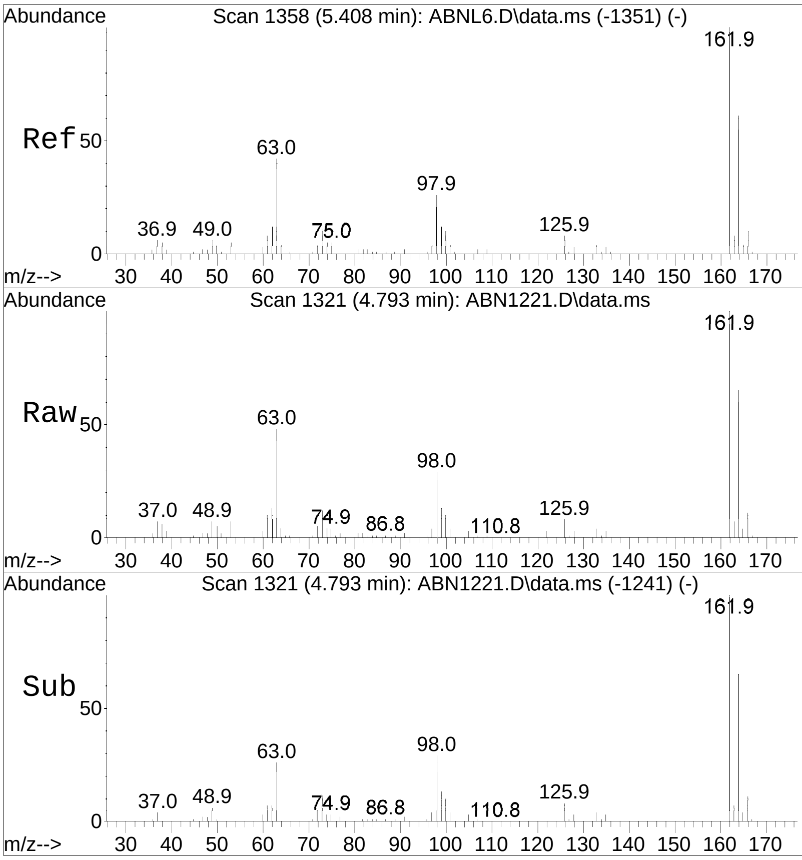



#24
Bis(2-chloroethoxy)methane
Concen: 5.34 ug/ml
RT: 4.746 min Scan# 1306
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion: 93 Resp: 41853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 34.5 | 25.8 | 38.8 |
| 123 | 7.7 | 10.1 | 15.1# |

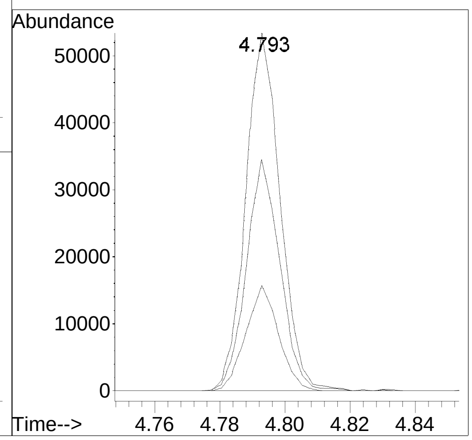


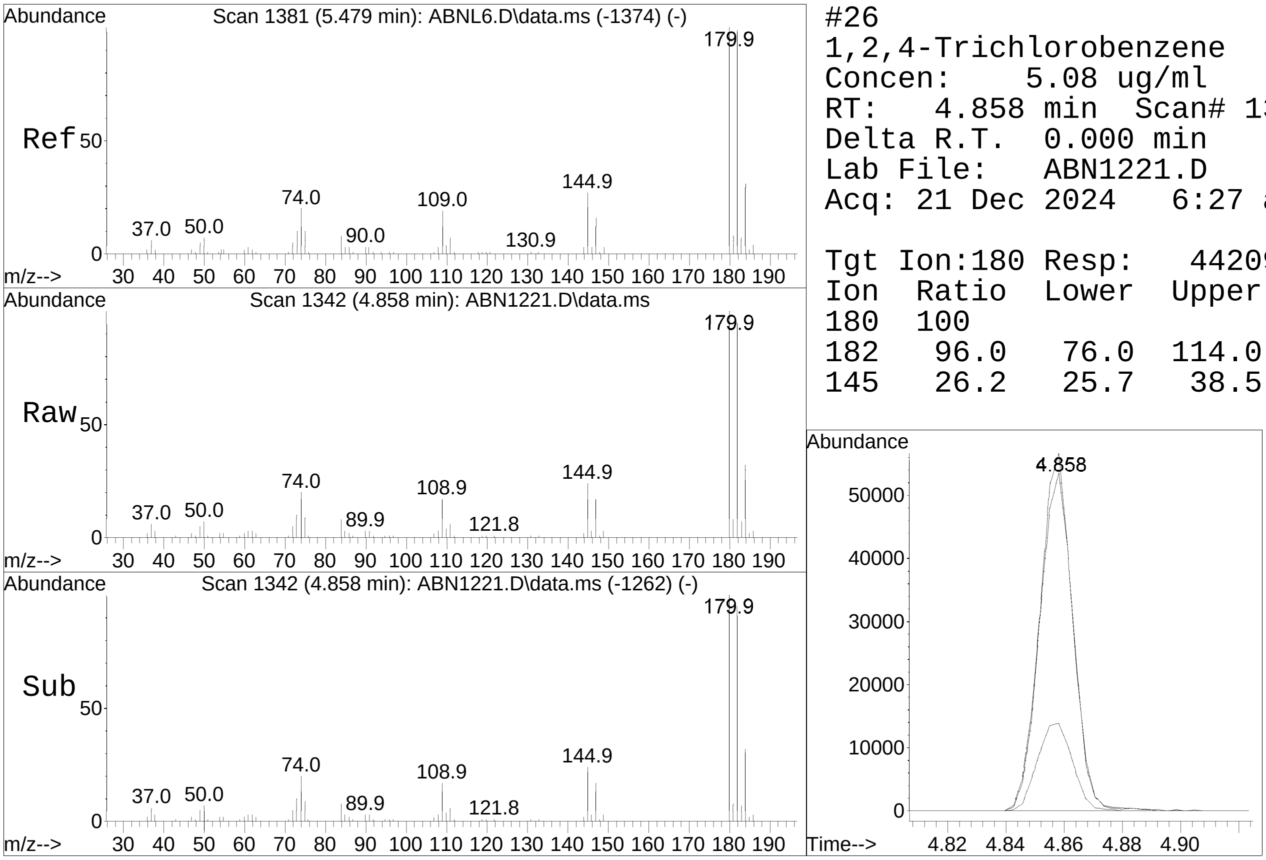



#25
2,4-Dichlorophenol
Concen: 5.43 ug/ml
RT: 4.793 min Scan# 1321
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:162 Resp: 39041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 63.2 | 51.0 | 76.4 |
| 98 | 28.1 | 32.2 | 48.2# |

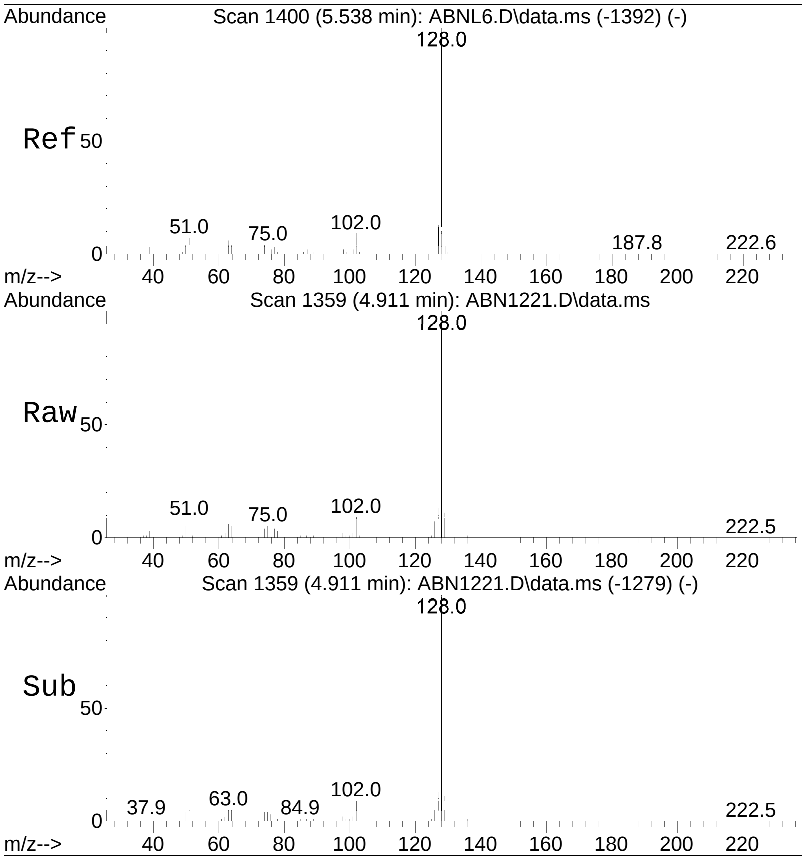





#26
1,2,4-Trichlorobenzene
Concen: 5.08 ug/ml
RT: 4.858 min Scan# 1342
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:180 Resp: 44209

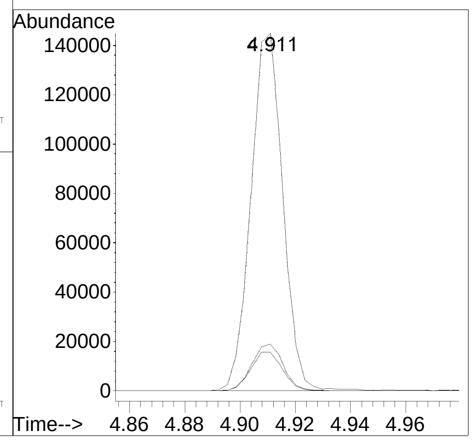
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.0 | 76.0 | 114.0 |
| 145 | 26.2 | 25.7 | 38.5 |

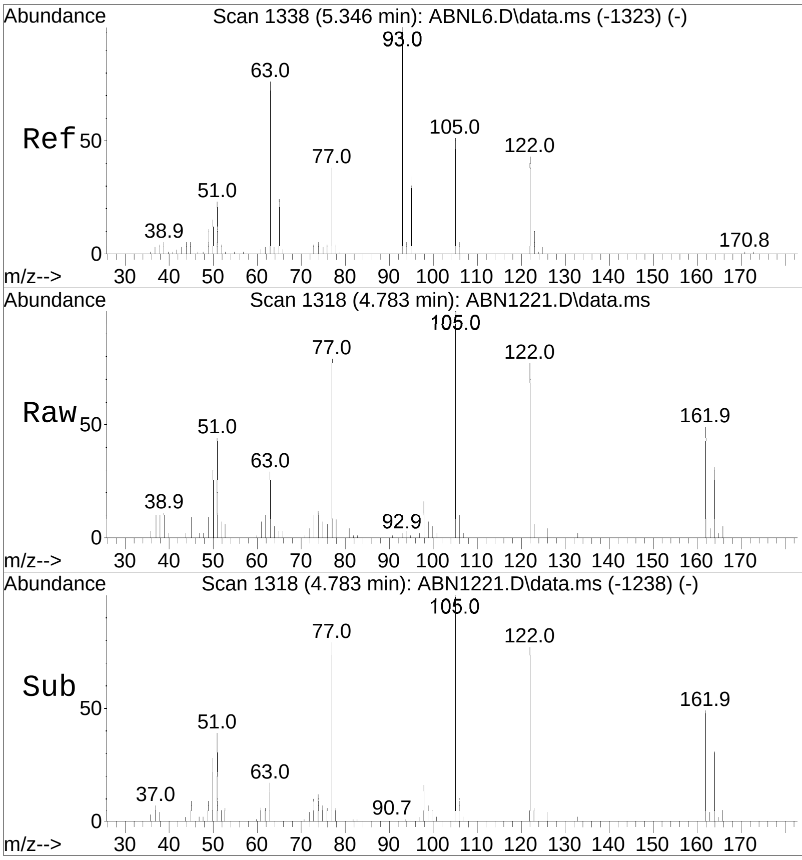



#38
Naphthalene
Concen: 4.69 ug/ml
RT: 4.911 min Scan# 1359
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:128 Resp: 115440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.0 | 8.7 | 13.1 |
| 127 | 13.0 | 10.3 | 15.5 |

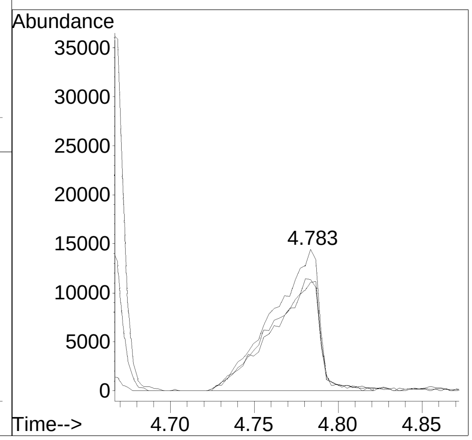


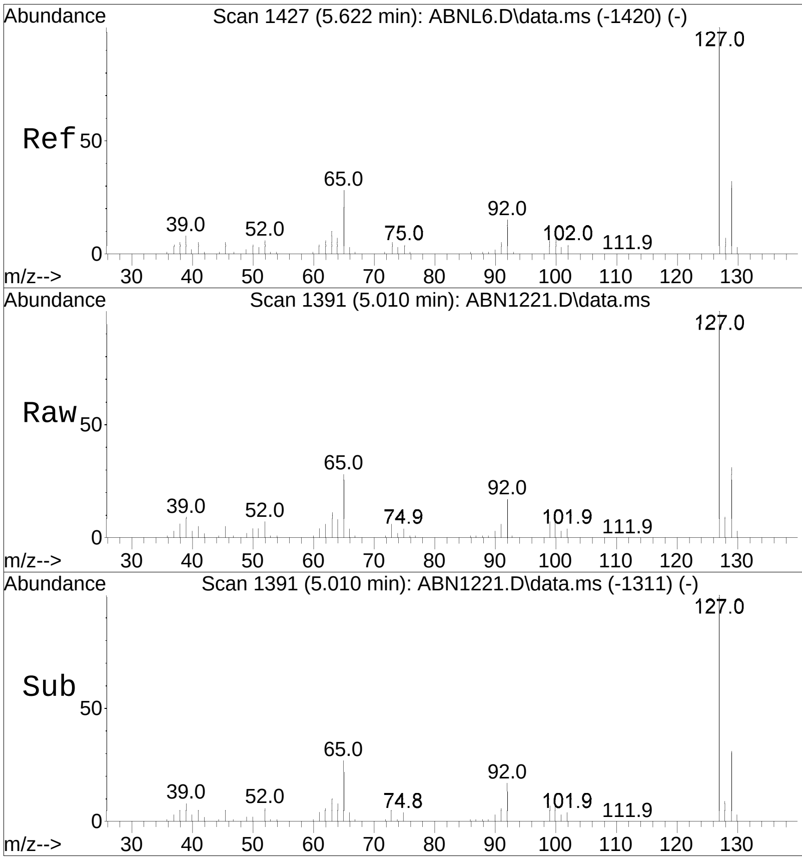



#39
Benzoic Acid
Concen: 5.56 ug/ml
RT: 4.783 min Scan# 1318
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:105 Resp: 28332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 122 | 82.7 | 59.9 | 89.9 |
| 77 | 80.5 | 60.1 | 90.1 |

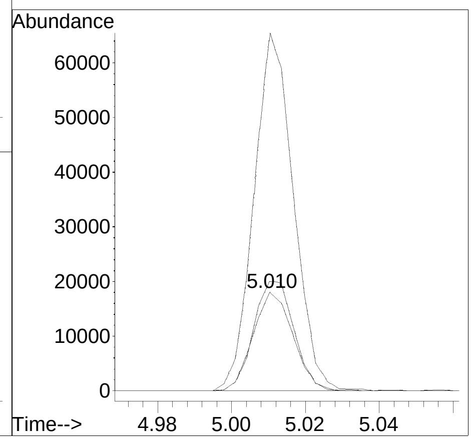


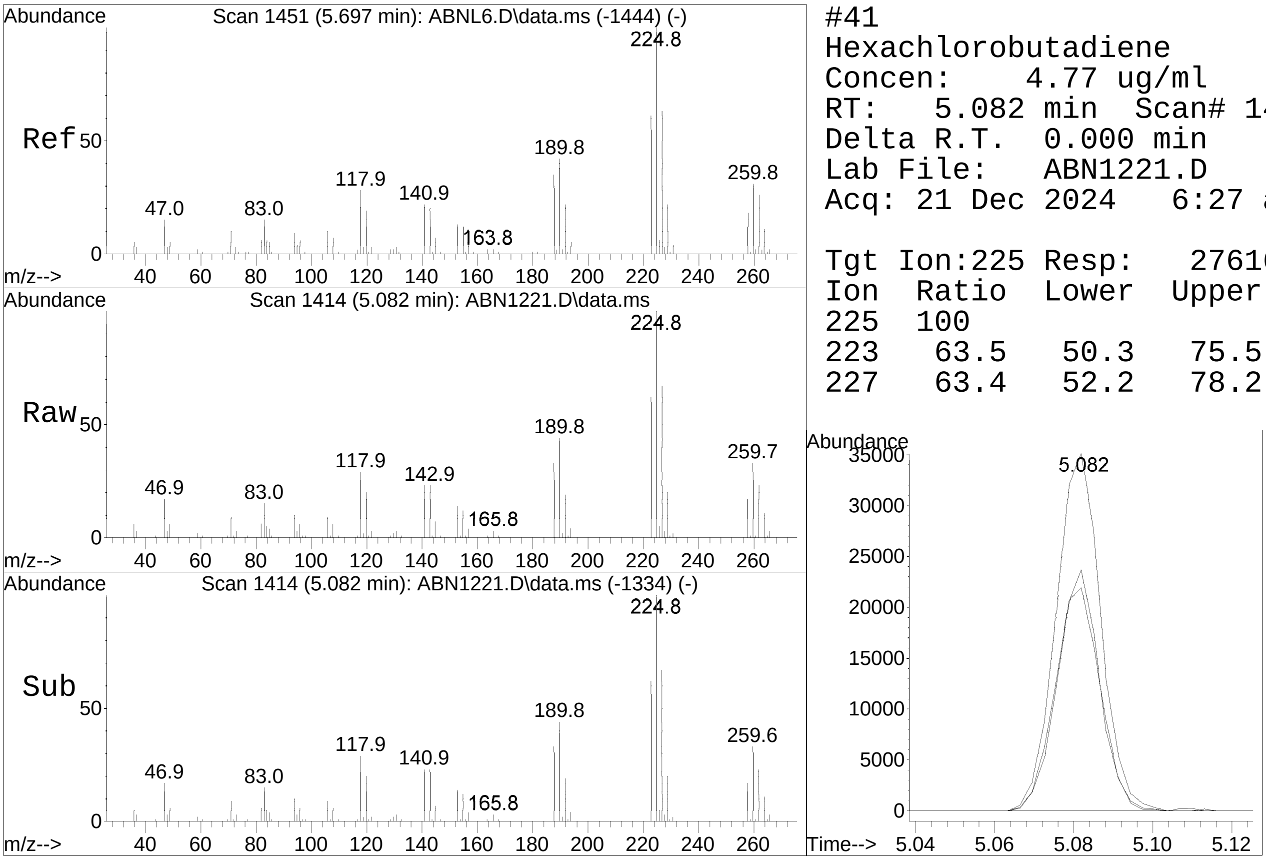



#40
4-Chloroaniline
Concen: 5.02 ug/ml
RT: 5.010 min Scan# 1391
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion: 65 Resp: 13581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 127 | 356.8 | 237.6 | 356.4# |
| 129 | 112.1 | 76.3 | 114.5 |

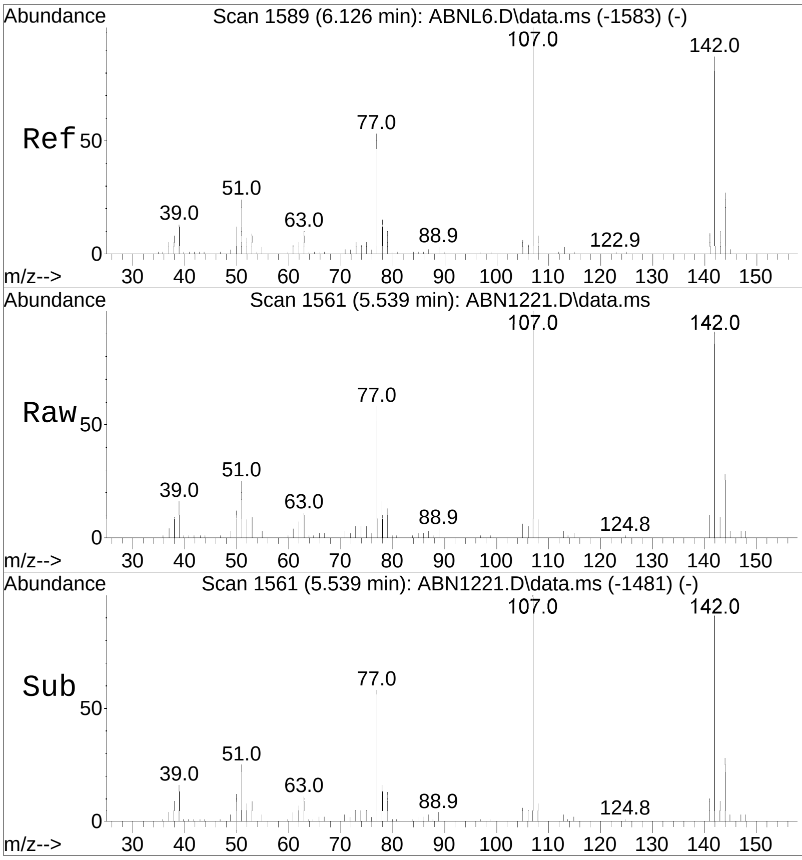





#41
Hexachlorobutadiene
Concen: 4.77 ug/ml
RT: 5.082 min Scan# 1414
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:225 Resp: 27616

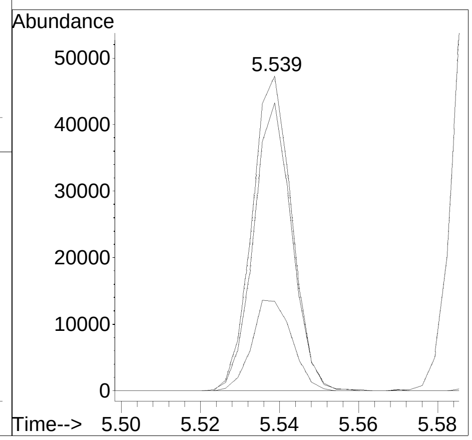
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.5 | 50.3 | 75.5 |
| 227 | 63.4 | 52.2 | 78.2 |

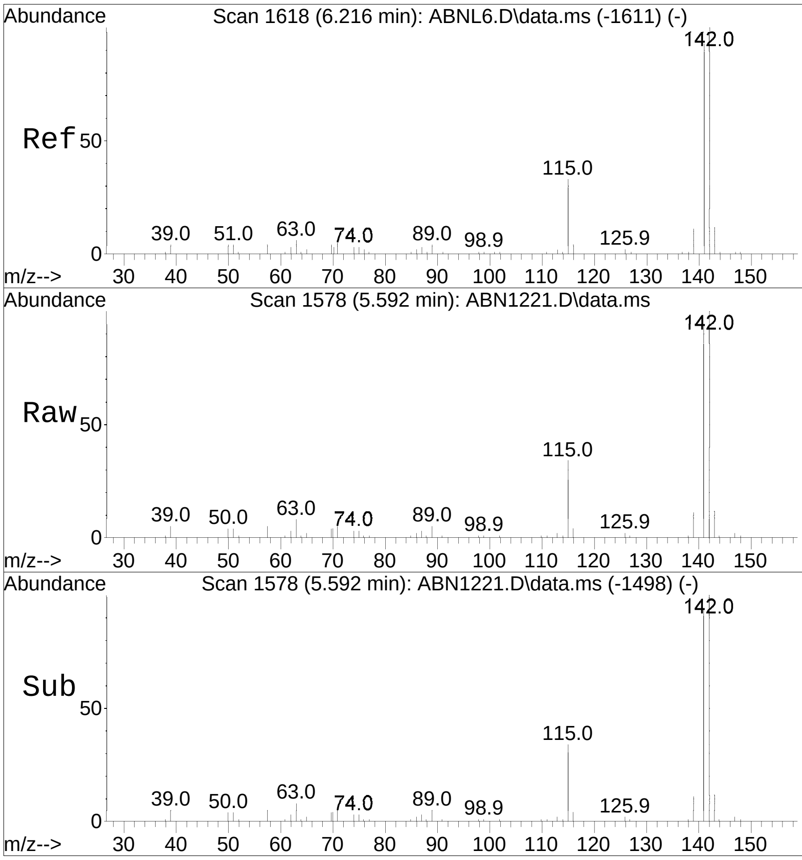



#42
p-Chloro-m-cresol
Concen: 5.09 ug/ml
RT: 5.539 min Scan# 1561
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:107 Resp: 33016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 29.3 | 20.9 | 31.3 |
| 142 | 88.6 | 66.1 | 99.1 |

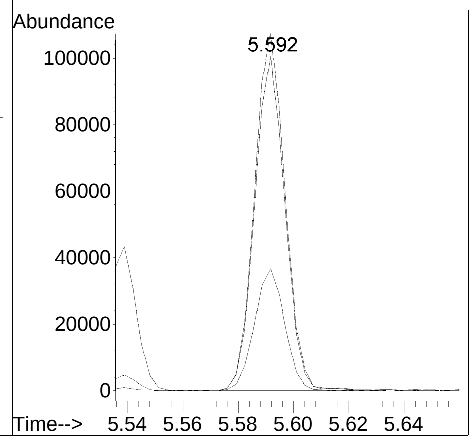


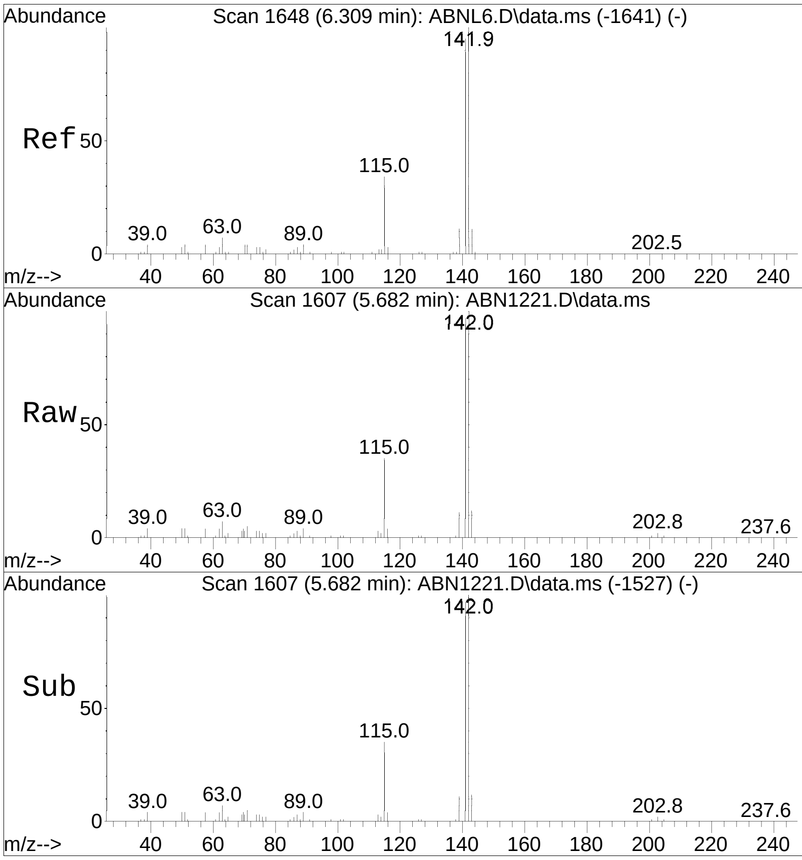



#43
2-Methylnaphthalene
Concen: 4.86 ug/ml
RT: 5.592 min Scan# 1578
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:142 Resp: 82841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.4 | 69.6 | 104.4 |
| 115 | 33.7 | 26.6 | 40.0 |

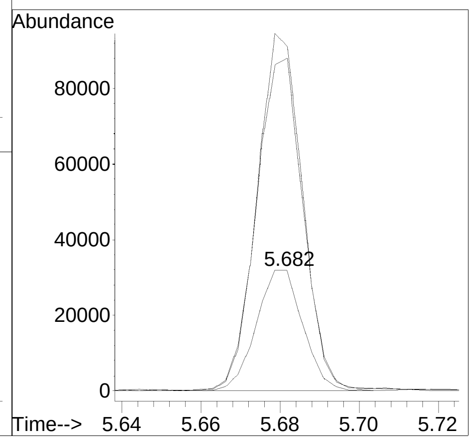


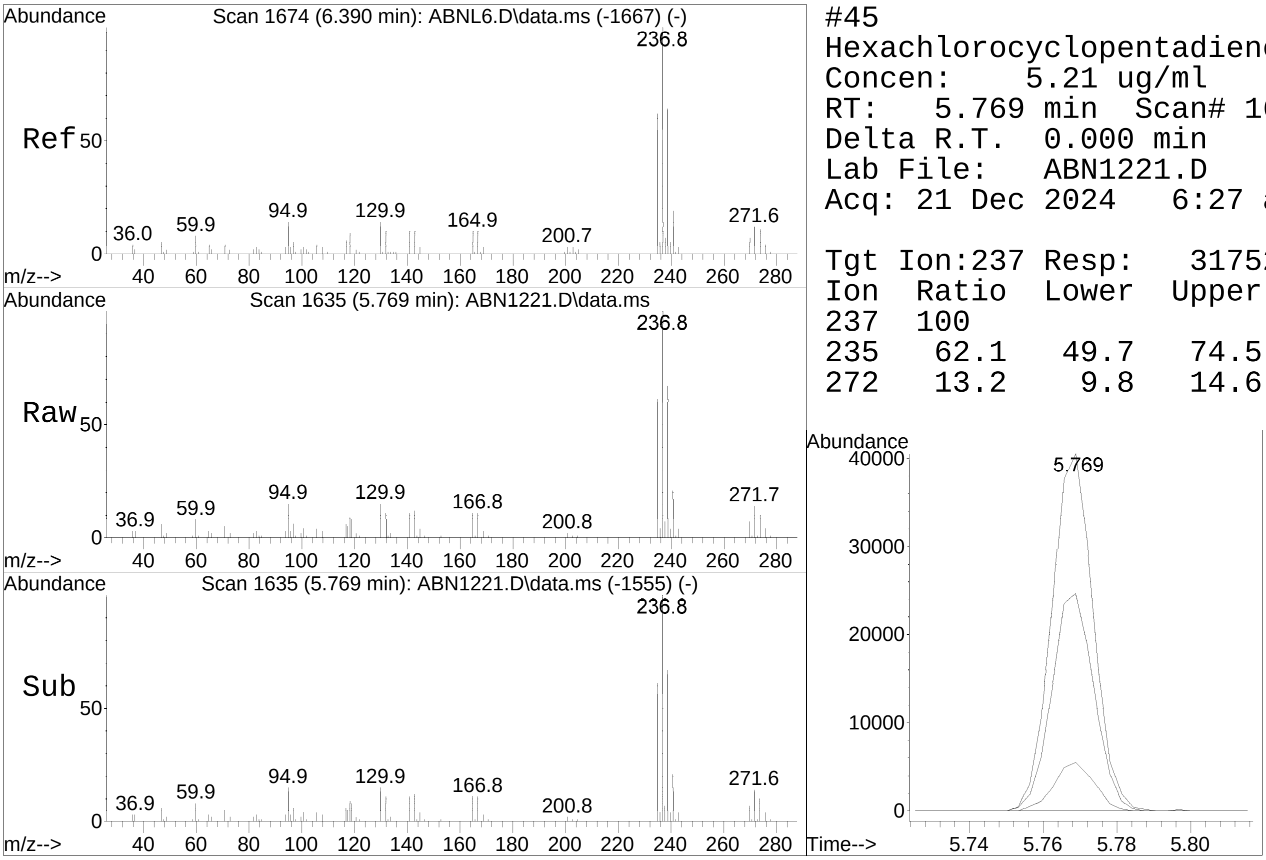



#44
1-Methylnaphthalene
Concen: 4.83 ug/ml
RT: 5.682 min Scan# 1607
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:115 Resp: 26168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 115 | 100 | | |
| 141 | 277.9 | 207.8 | 311.6 |
| 142 | 288.2 | 226.8 | 340.2 |

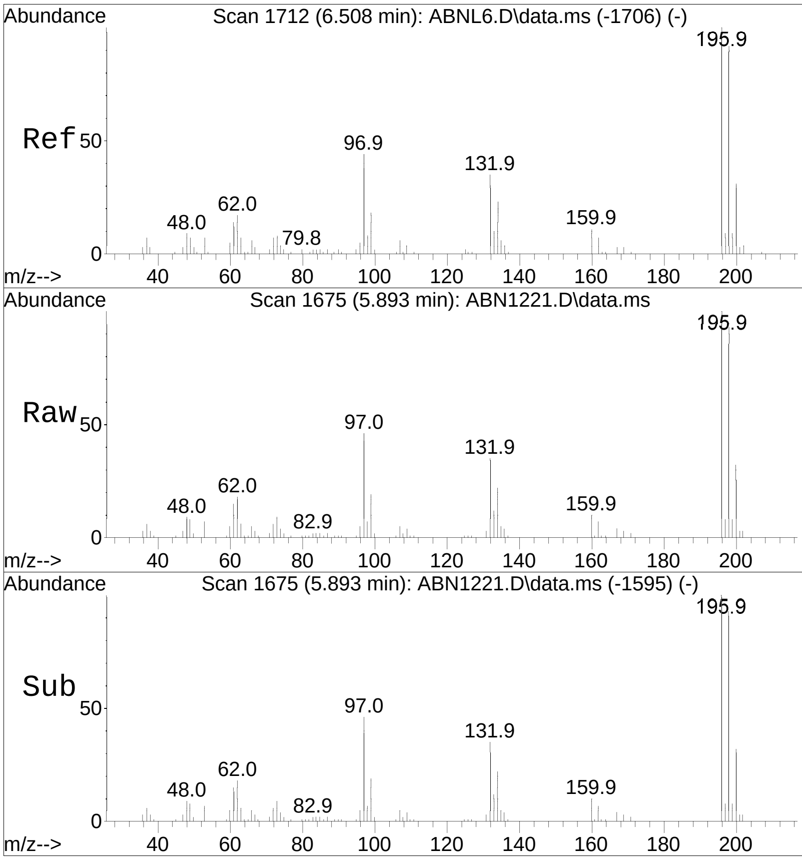





#45
Hexachlorocyclopentadiene
Concen: 5.21 ug/ml
RT: 5.769 min Scan# 1635
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:237 Resp: 31752

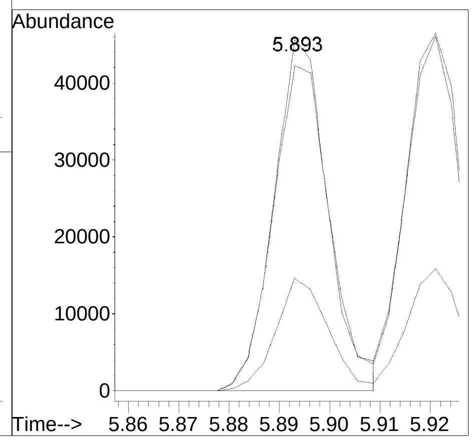
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 62.1 | 49.7 | 74.5 |
| 272 | 13.2 | 9.8 | 14.6 |

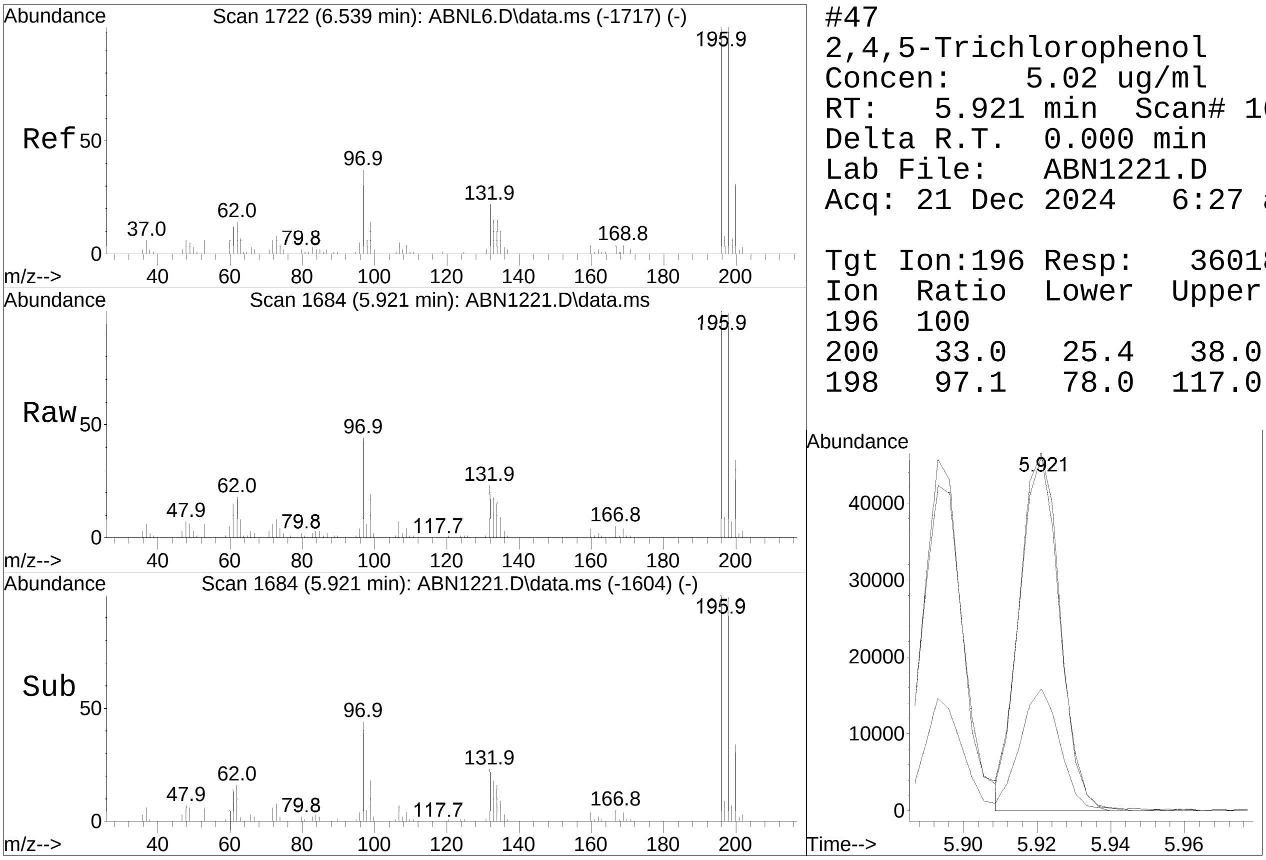



#46
2,4,6-Trichlorophenol
Concen: 5.36 ug/ml
RT: 5.893 min Scan# 1675
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:196 Resp: 34385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 95.6 | 77.5 | 116.3 |
| 200 | 31.1 | 23.8 | 35.6 |

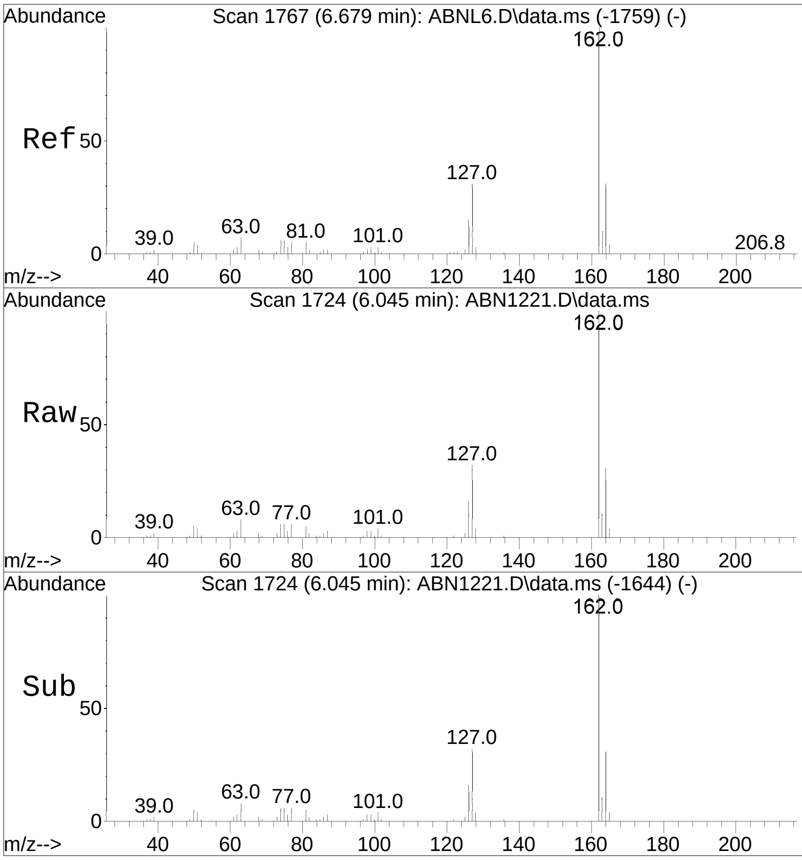





#47
2,4,5-Trichlorophenol
Concen: 5.02 ug/ml
RT: 5.921 min Scan# 1684
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:196 Resp: 36018

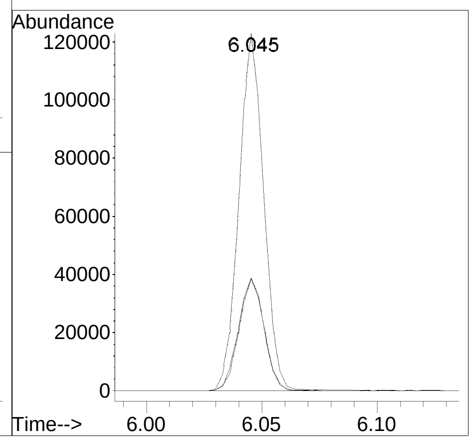
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 200 | 33.0 | 25.4 | 38.0 |
| 198 | 97.1 | 78.0 | 117.0 |

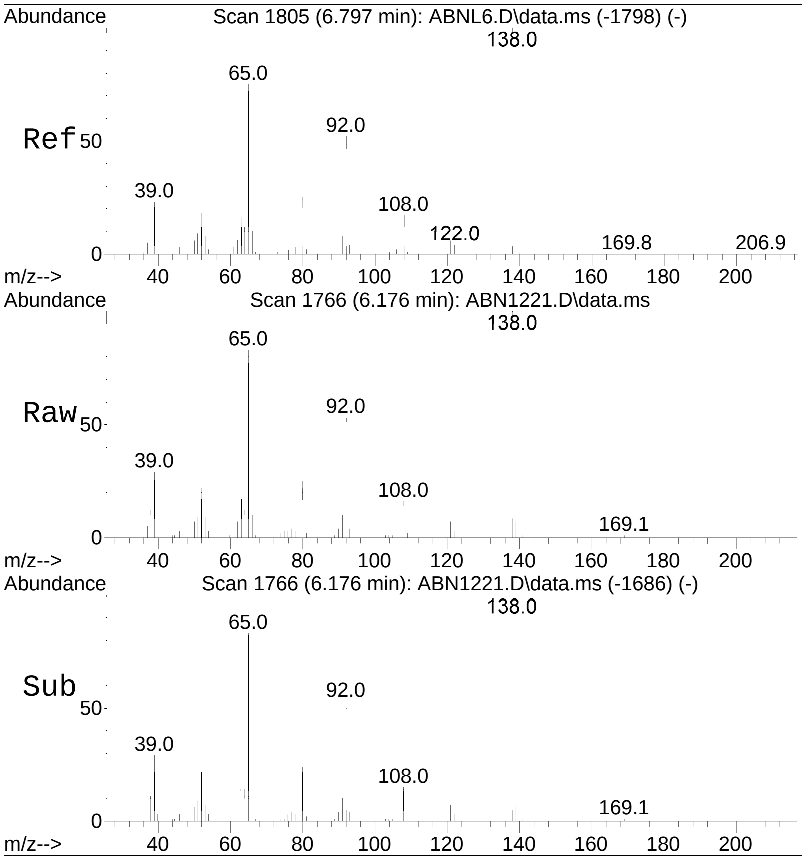



#49
2-Chloronaphthalene
Concen: 4.78 ug/ml
RT: 6.045 min Scan# 1724
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:162 Resp: 91293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 32.6 | 32.2 | 48.4 |
| 164 | 31.8 | 25.7 | 38.5 |

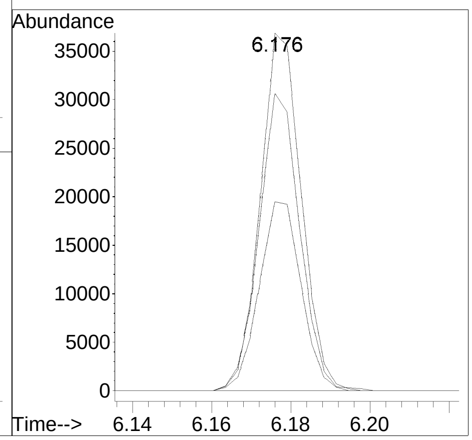


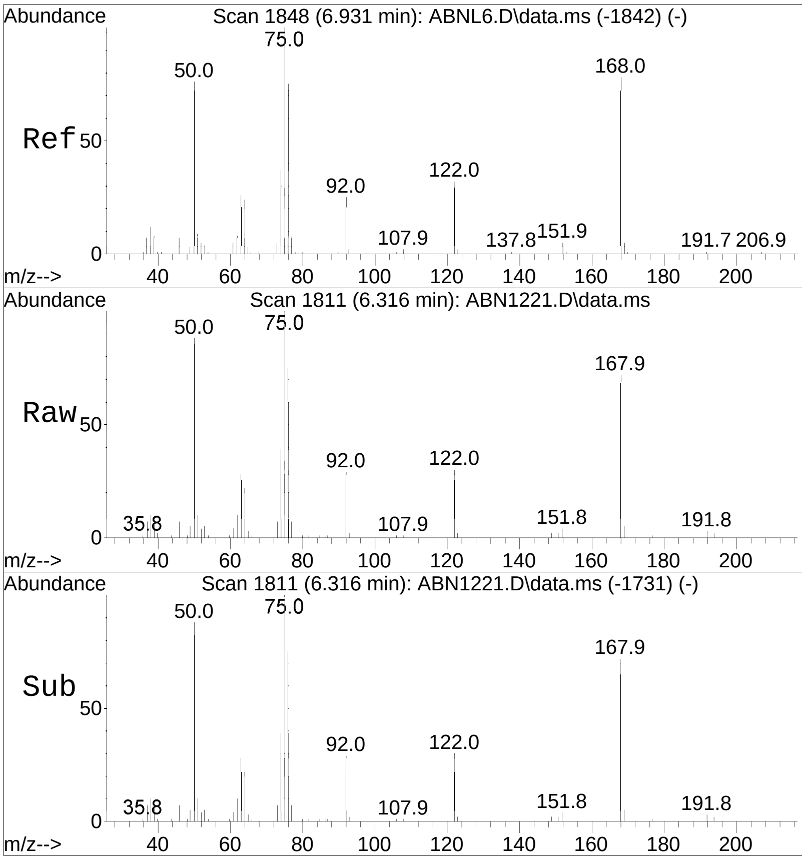



#50
2-Nitroaniline
Concen: 5.41 ug/ml
RT: 6.176 min Scan# 1766
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:138 Resp: 26422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 54.4 | 53.5 | 80.3 |
| 65 | 83.0 | 86.3 | 129.5# |

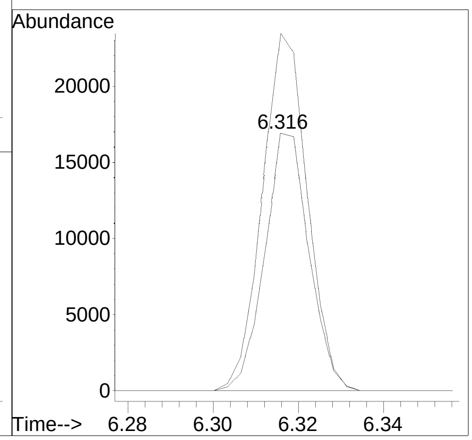


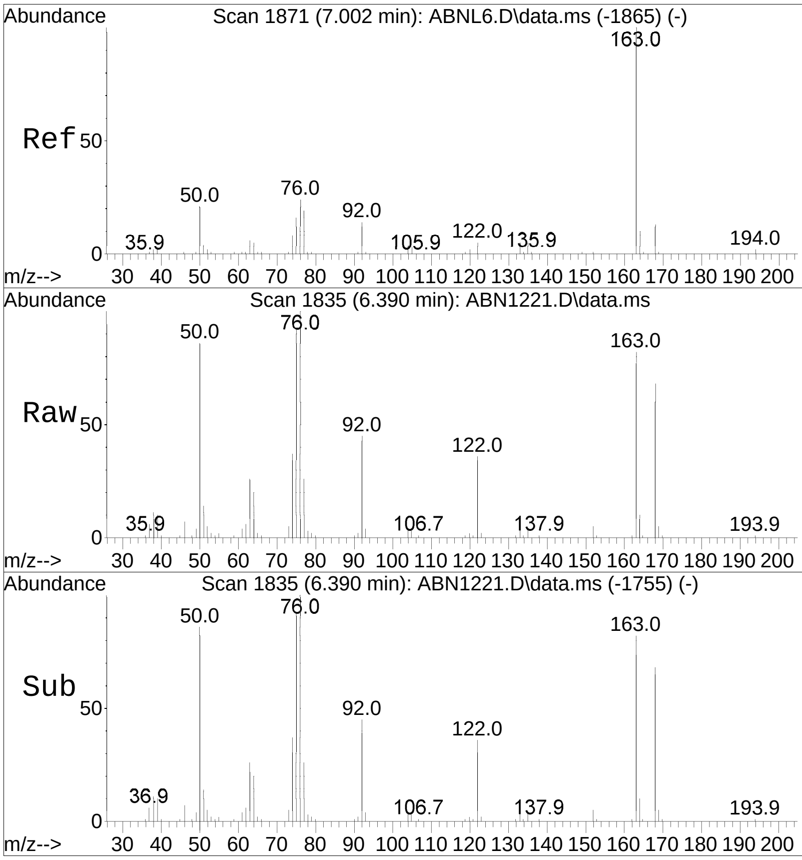



#51
1,4-Dinitrobenzene
Concen: 5.77 ug/ml
RT: 6.316 min Scan# 1811
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:168 Resp: 12239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 75 | 140.8 | 121.8 | 182.8 |

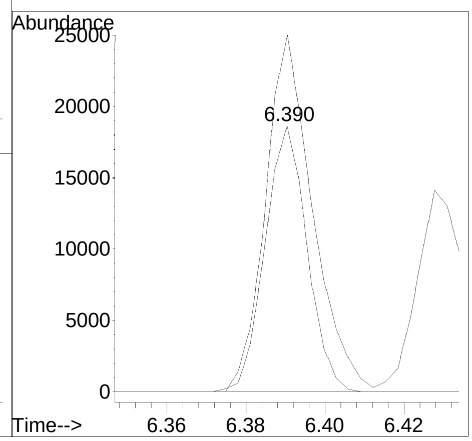


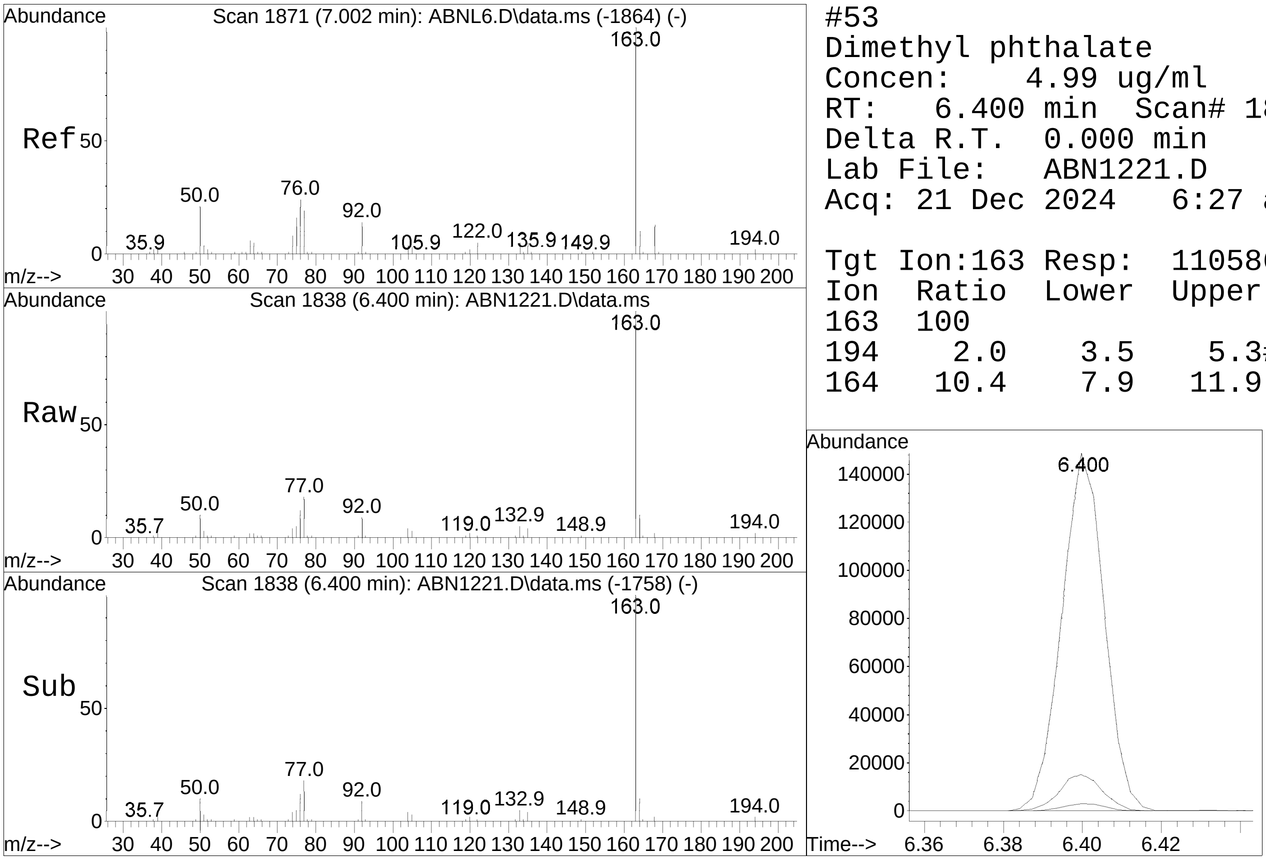



#52
1,3-Dinitrobenzene
Concen: 5.40 ug/ml
RT: 6.390 min Scan# 1835
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:168 Resp: 13725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 75 | 150.5 | 22.7 | 34.1# |

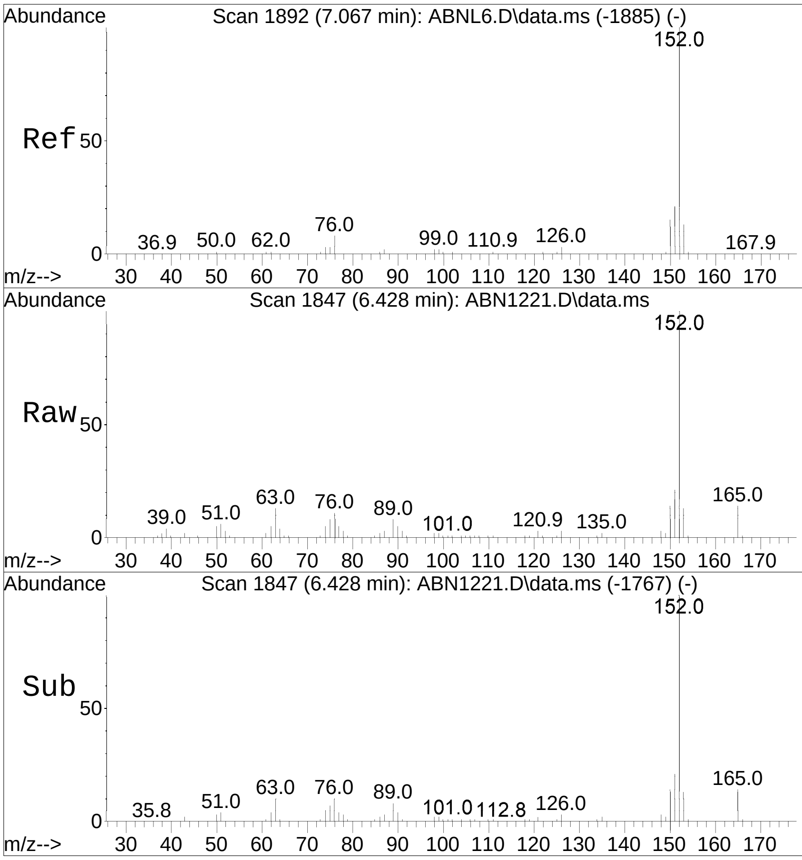





#53
Dimethyl phthalate
Concen: 4.99 ug/ml
RT: 6.400 min Scan# 1838
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:163 Resp: 110586

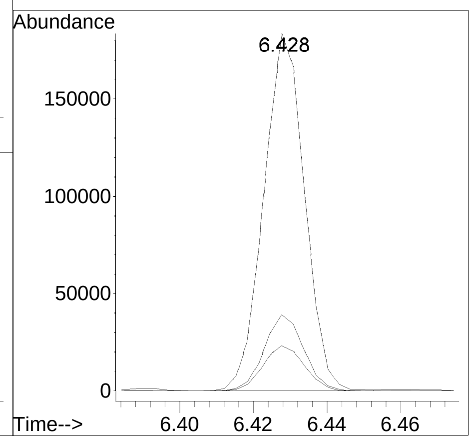
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 2.0 | 3.5 | 5.3# |
| 164 | 10.4 | 7.9 | 11.9 |

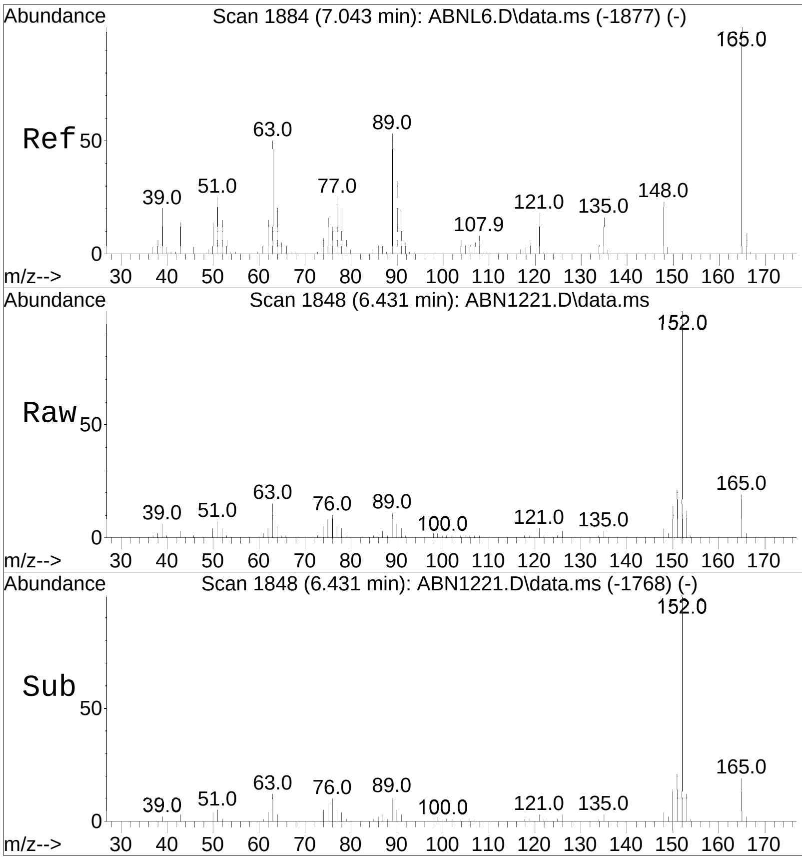



#54
Acenaphthylene
Concen: 5.01 ug/ml
RT: 6.428 min Scan# 1847
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:152 Resp: 140477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.6 | 15.8 | 23.6 |
| 153 | 13.0 | 10.5 | 15.7 |

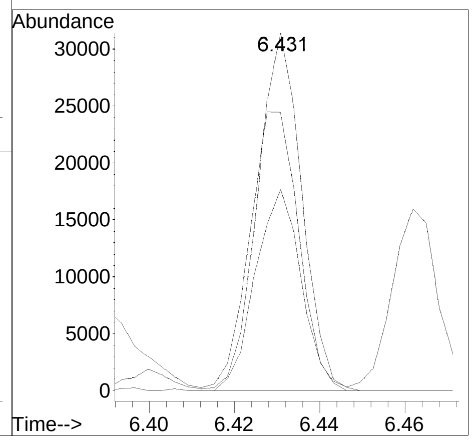


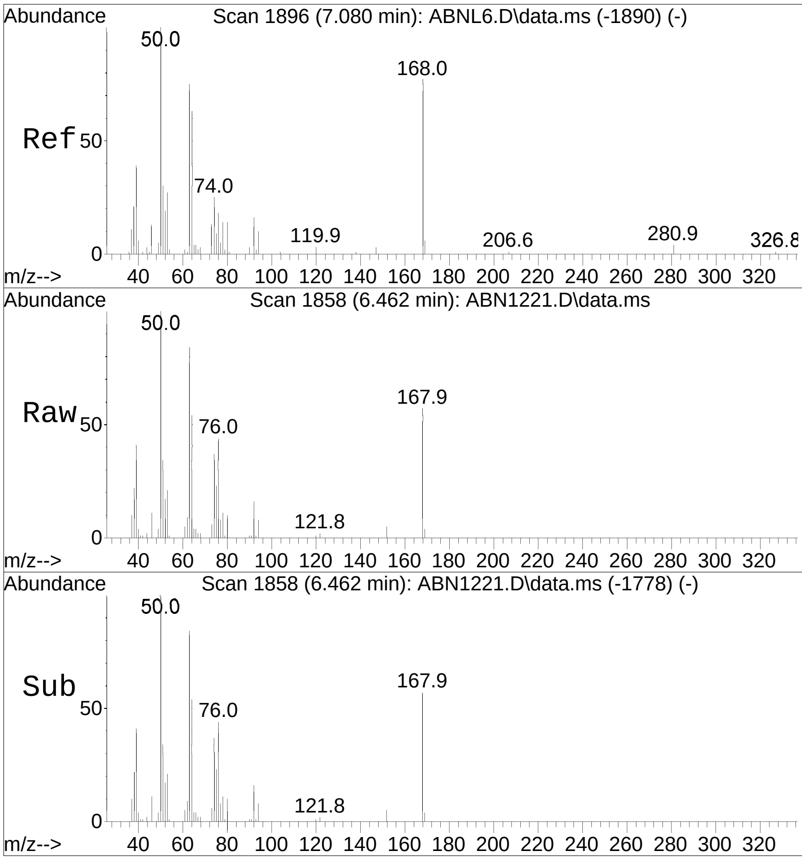



#55
2,6-Dinitrotoluene
Concen: 5.45 ug/ml
RT: 6.431 min Scan# 1848
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:165 Resp: 22583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 58.4 | 54.2 | 81.2 |
| 63 | 87.1 | 64.2 | 96.2 |

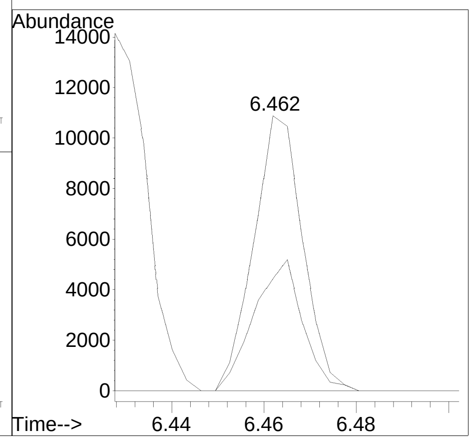


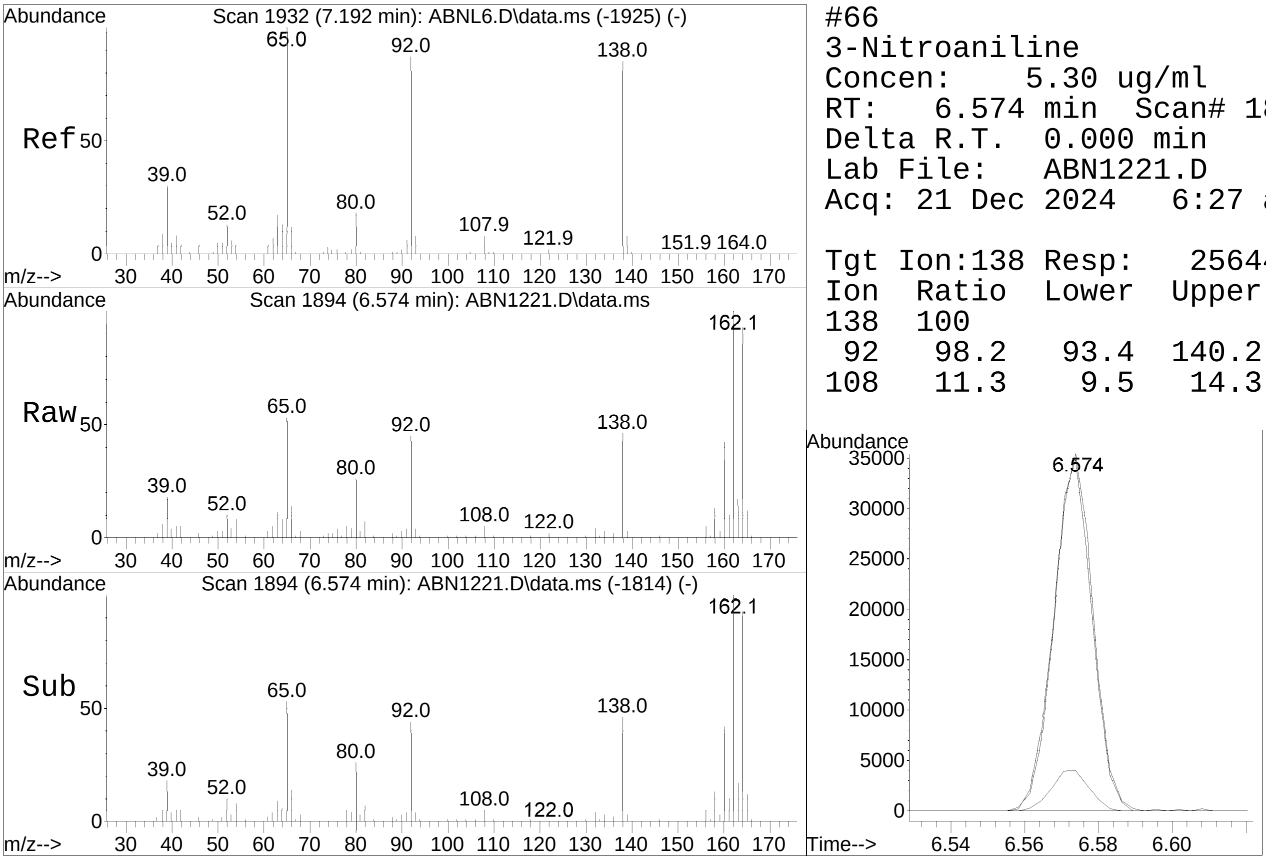



#56
1,2-Dinitrobenzene
Concen: 5.42 ug/ml
RT: 6.462 min Scan# 1858
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:168 Resp: 8031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 75 | 47.5 | 30.9 | 46.3# |

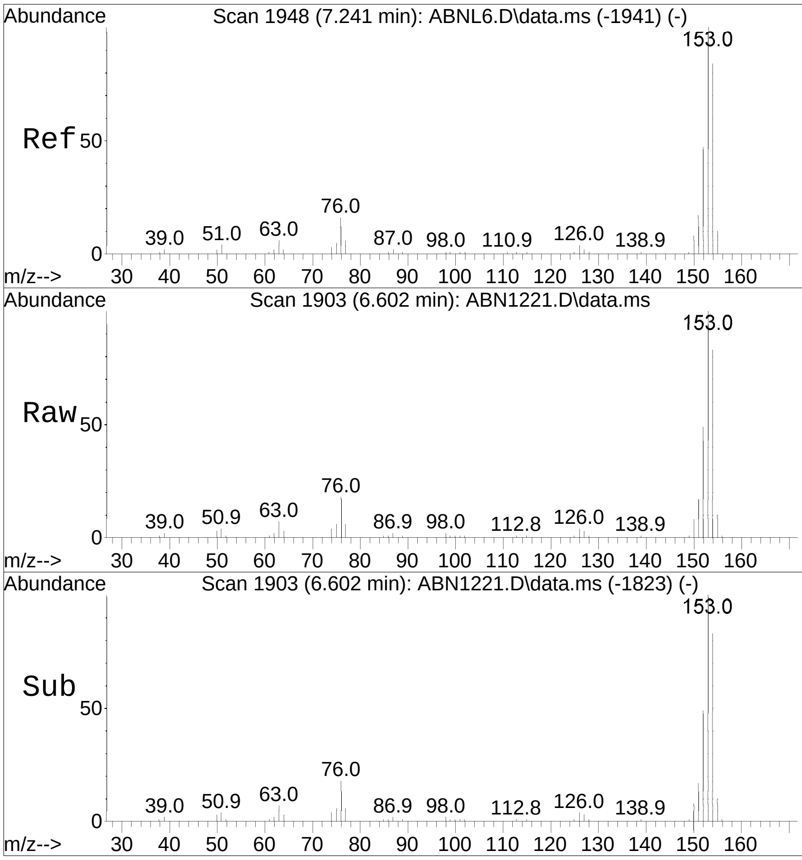





#66
3-Nitroaniline
Concen: 5.30 ug/ml
RT: 6.574 min Scan# 1894
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:138 Resp: 25644

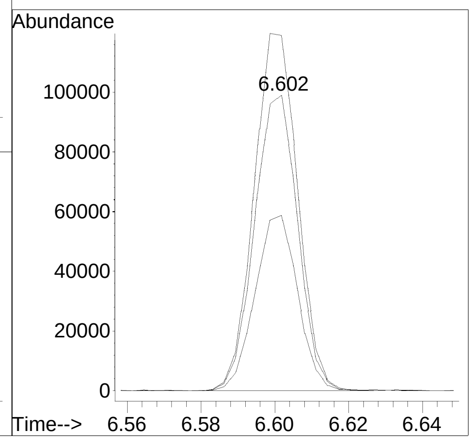
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 98.2 | 93.4 | 140.2 |
| 108 | 11.3 | 9.5 | 14.3 |

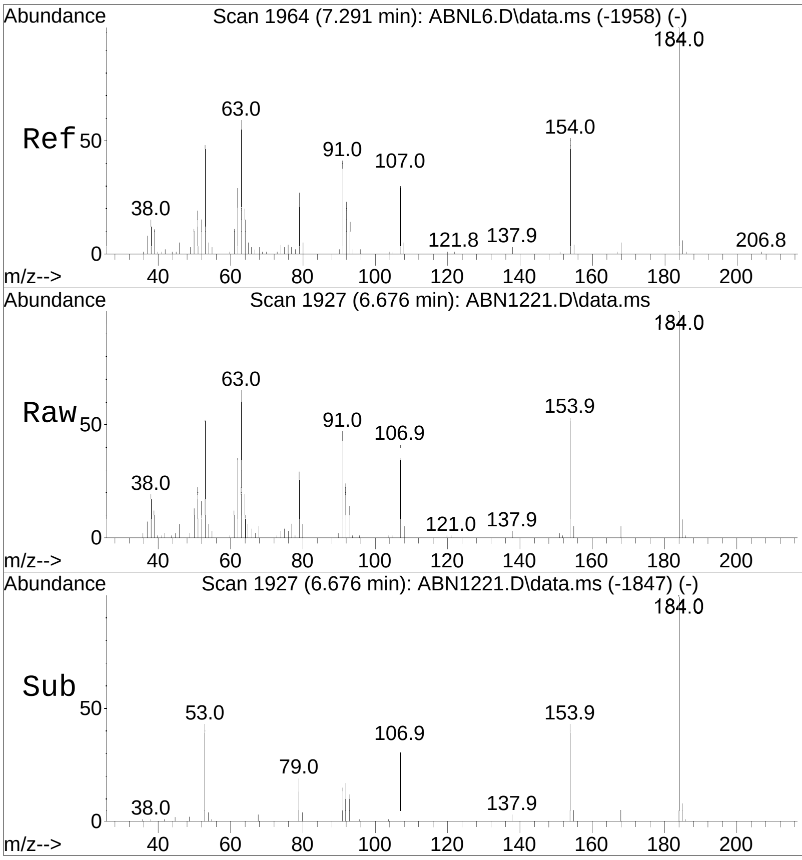



#67
Acenaphthene
Concen: 4.44 ug/ml
RT: 6.602 min Scan# 1903
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:154 Resp: 80810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 121.9 | 85.3 | 127.9 |
| 152 | 59.1 | 41.4 | 62.0 |

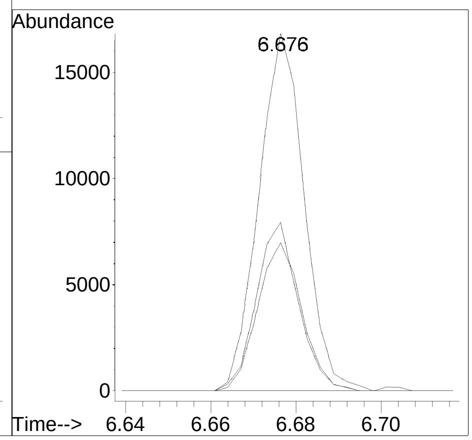


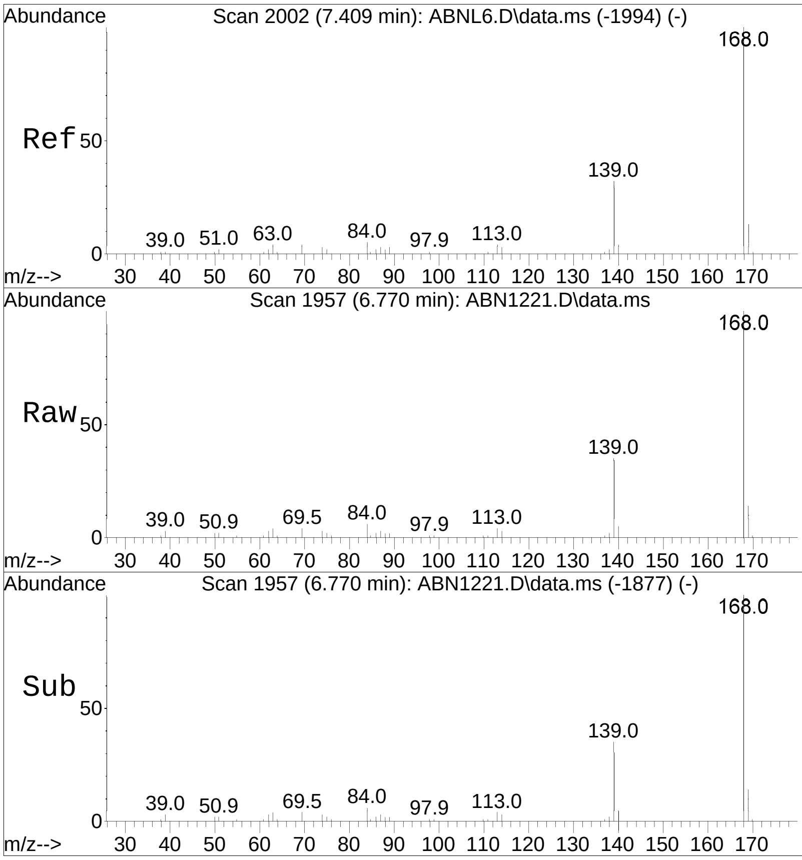



#68
2,4-Dinitrophenol
Concen: 4.21 ug/ml
RT: 6.676 min Scan# 1927
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:184 Resp: 12388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 107 | 40.6 | 37.7 | 56.5 |
| 91 | 43.9 | 46.3 | 69.5# |

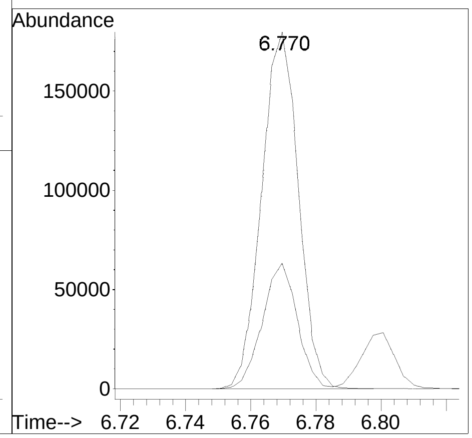


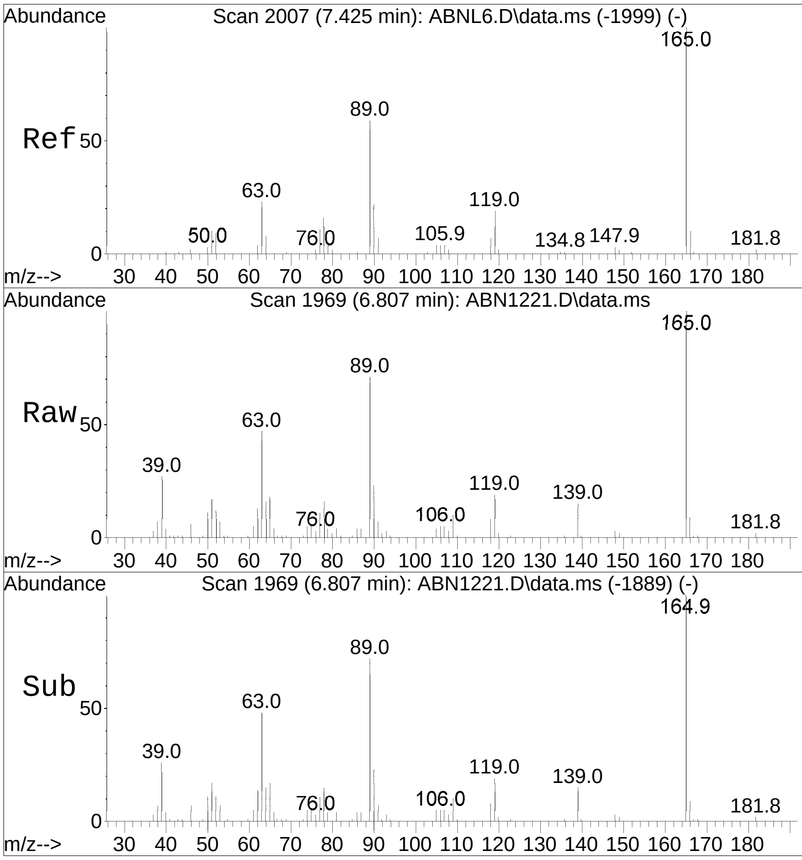



#69
Dibenzofuran
Concen: 4.46 ug/ml
RT: 6.770 min Scan# 1957
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:168 Resp: 140226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 33.6 | 31.4 | 47.2 |

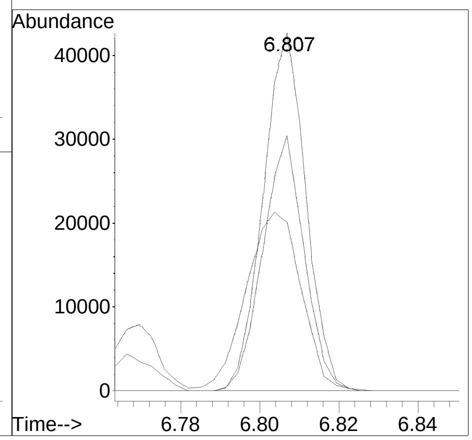


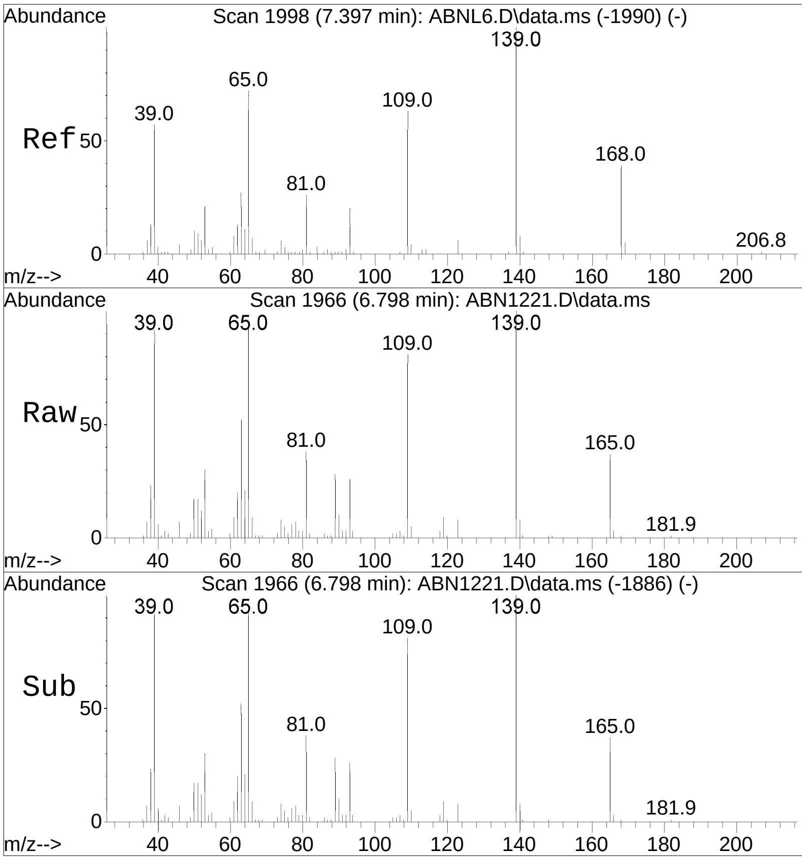



#70
2,4-Dinitrotoluene
Concen: 5.26 ug/ml
RT: 6.807 min Scan# 1969
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:165 Resp: 31880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 69.4 | 72.0 | 108.0# |
| 63 | 64.8 | 52.7 | 79.1 |

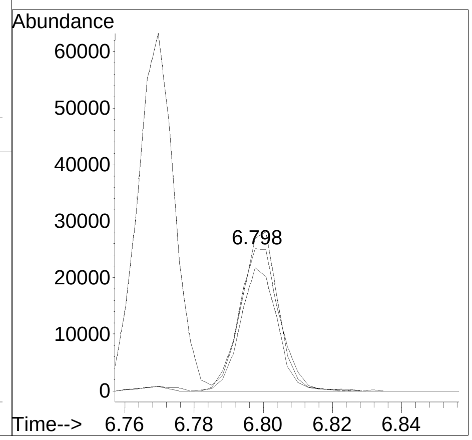


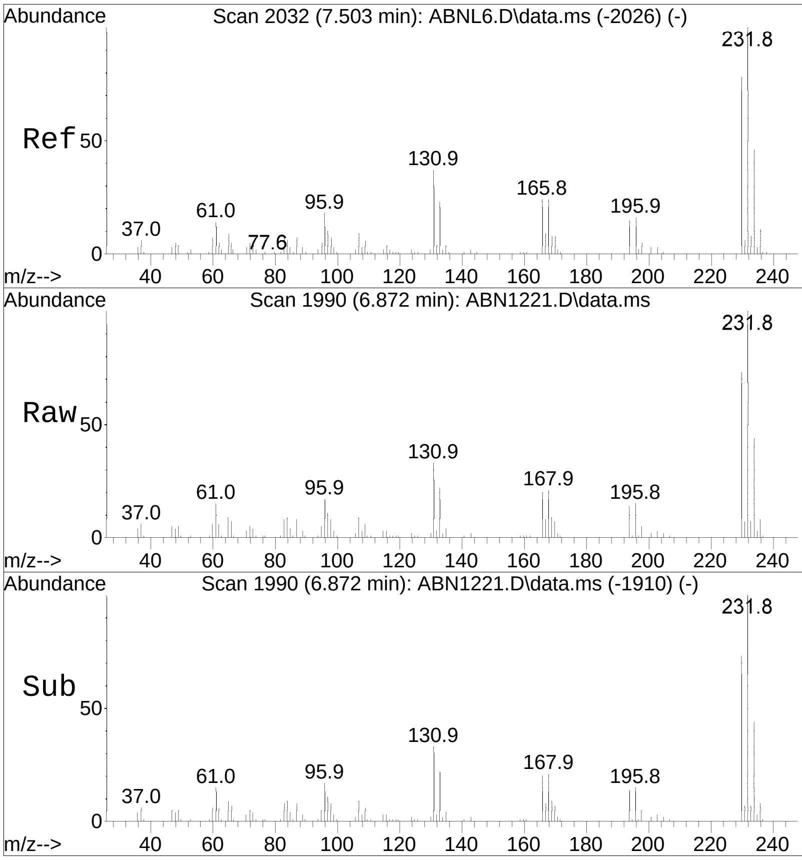



#71
4-Nitrophenol
Concen: 5.68 ug/ml
RT: 6.798 min Scan# 1966
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion: 65 Resp: 20496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 109 | 79.2 | 47.4 | 71.2# |
| 139 | 101.9 | 76.6 | 115.0 |

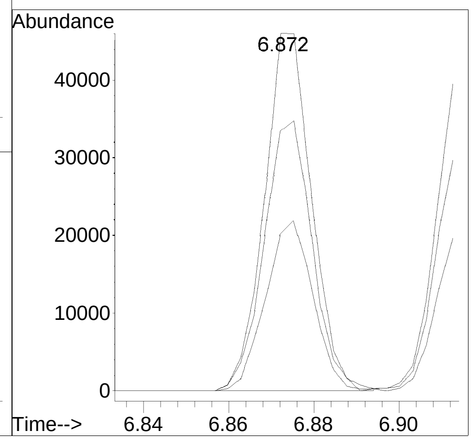


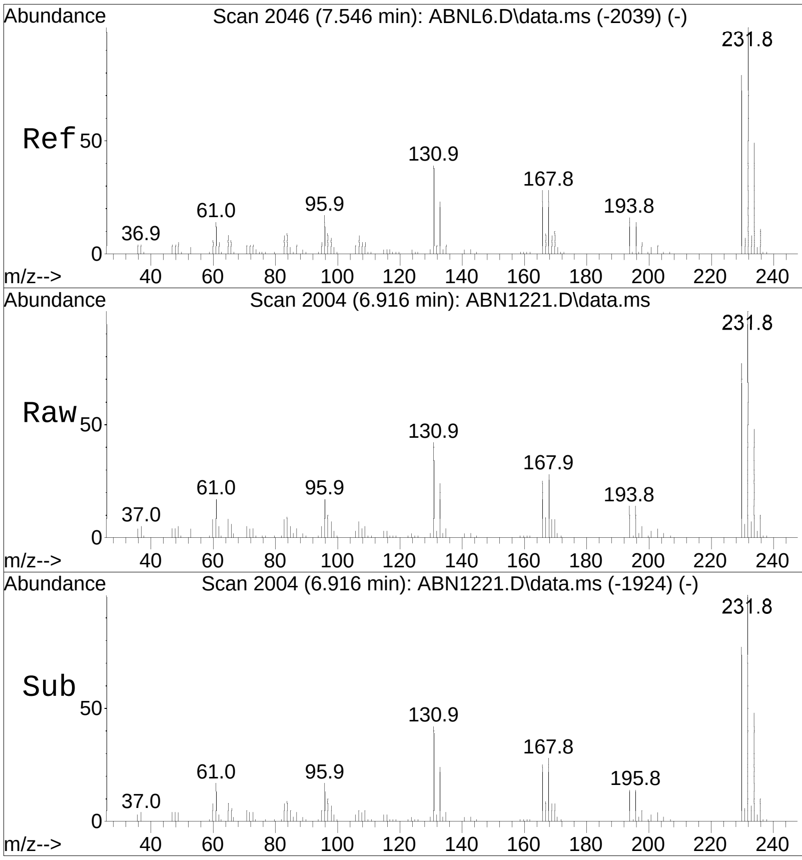



#72
2,3,5,6-Tetrachlorophenol
Concen: 5.21 ug/ml
RT: 6.872 min Scan# 1990
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:232 Resp: 35615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 230 | 76.5 | 64.2 | 96.4 |
| 234 | 47.6 | 38.1 | 57.1 |

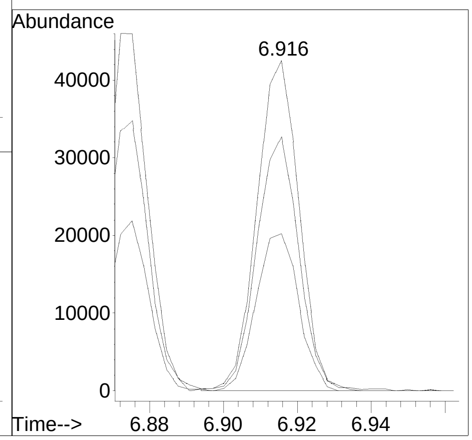


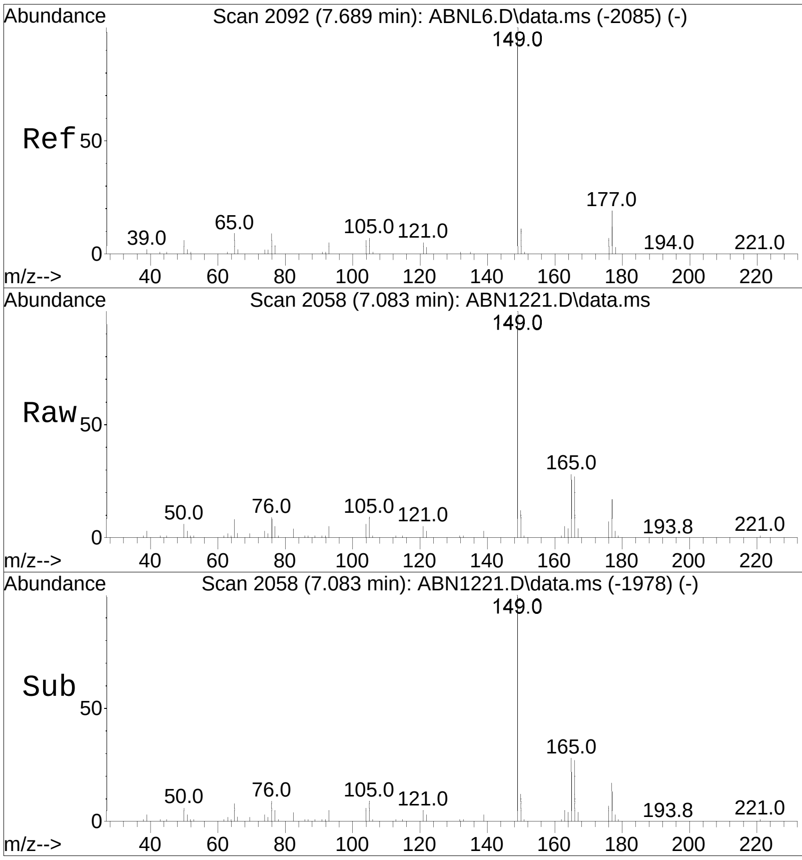



#73
2,3,4,6-Tetrachlorophenol
Concen: 5.03 ug/ml
RT: 6.916 min Scan# 2004
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:232 Resp: 33712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 230 | 77.3 | 61.8 | 92.8 |
| 234 | 48.6 | 36.2 | 54.2 |

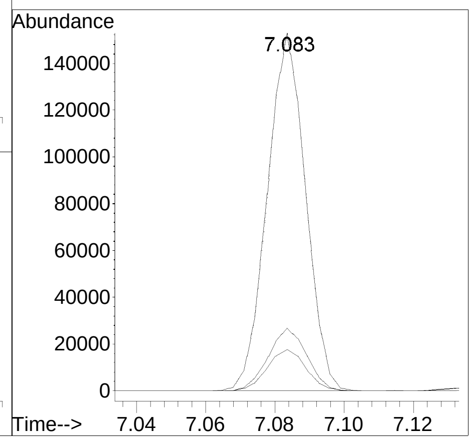


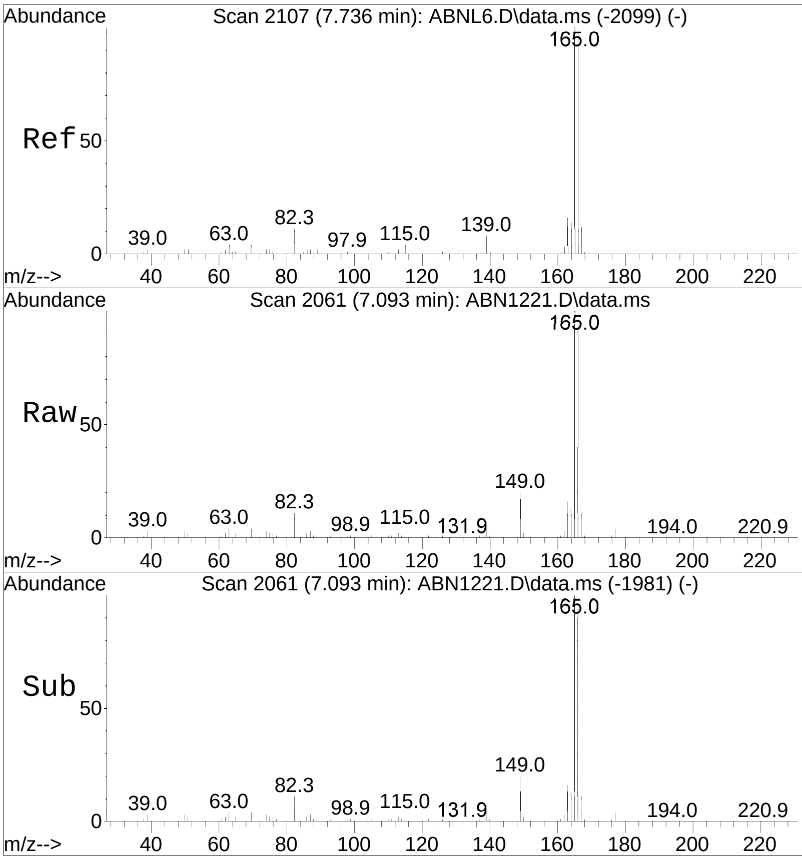



#74
Diethyl phthalate
Concen: 4.74 ug/ml
RT: 7.083 min Scan# 2058
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:149 Resp: 116844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 17.7 | 16.1 | 24.1 |
| 150 | 11.8 | 9.4 | 14.2 |

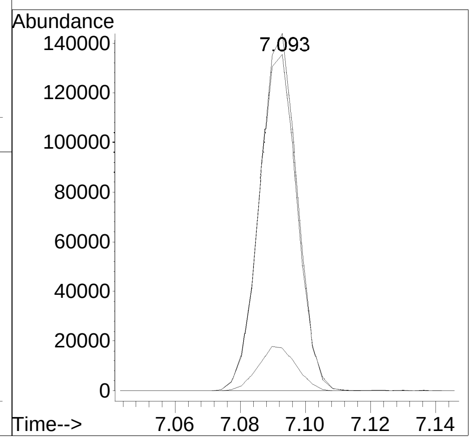


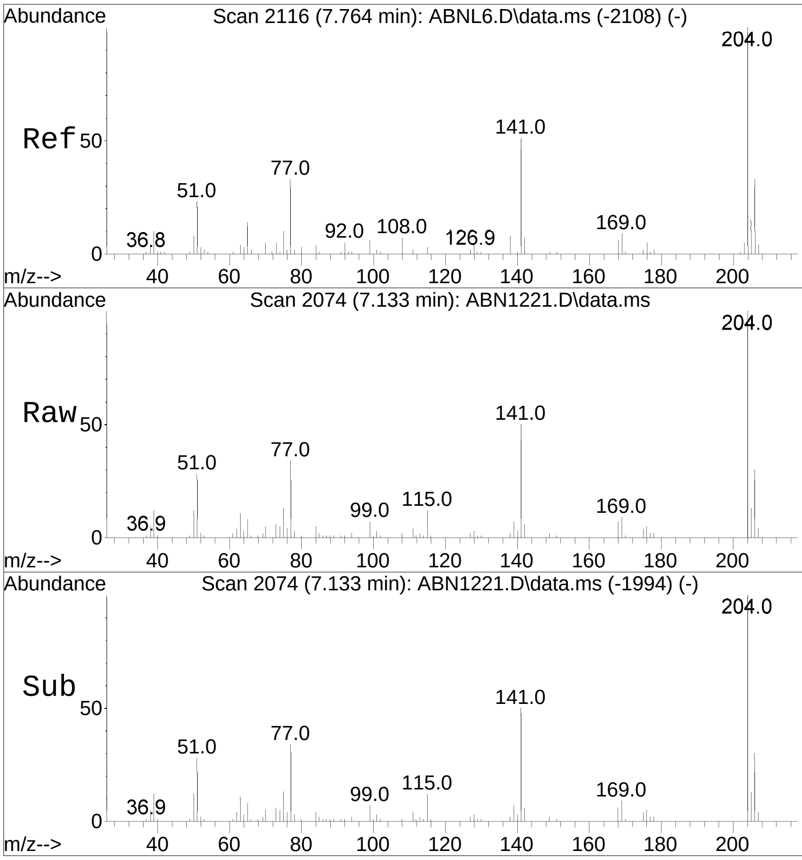



#75
Fluorene
Concen: 4.57 ug/ml
RT: 7.093 min Scan# 2061
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:166 Resp: 109890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 104.5 | 76.2 | 114.2 |
| 167 | 13.3 | 10.6 | 15.8 |

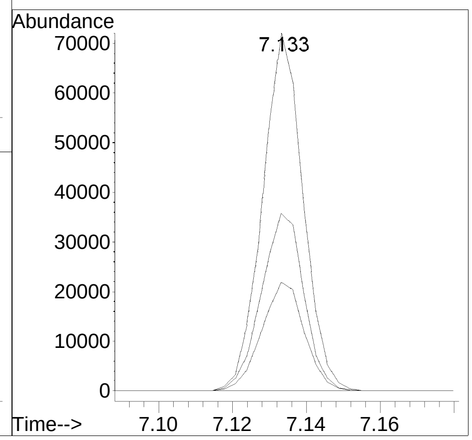


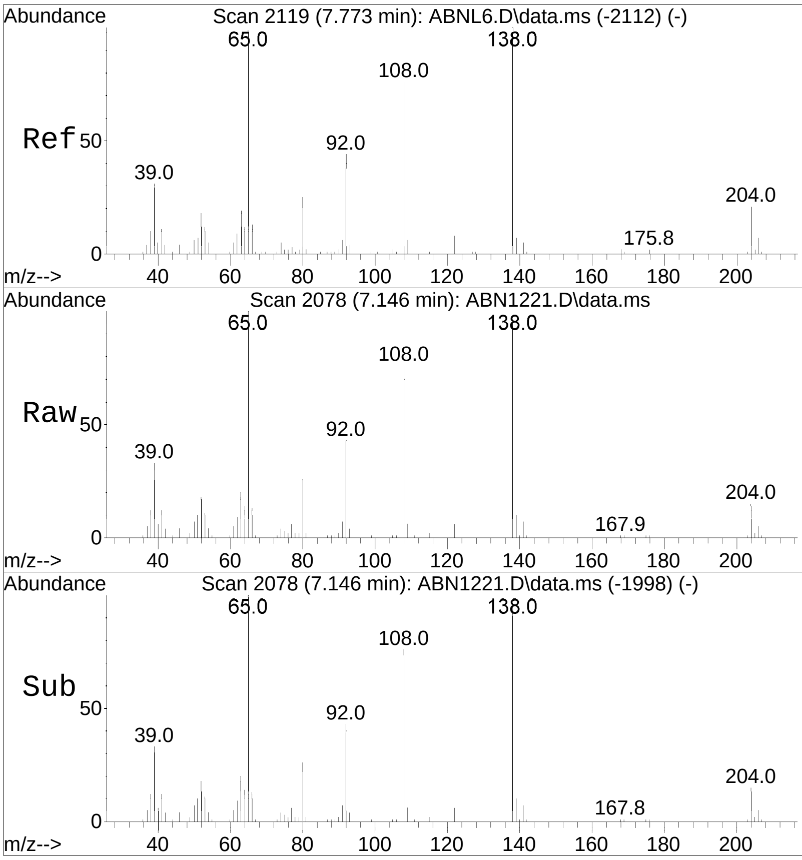



#76
4-Chlorophenyl phenyl ether
Concen: 4.43 ug/ml
RT: 7.133 min Scan# 2074
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:204 Resp: 54892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 32.0 | 25.8 | 38.6 |
| 141 | 52.1 | 53.6 | 80.4# |

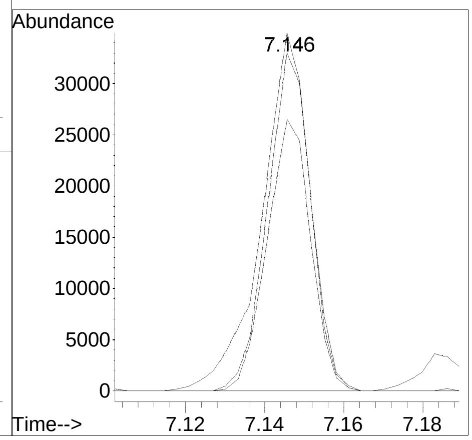


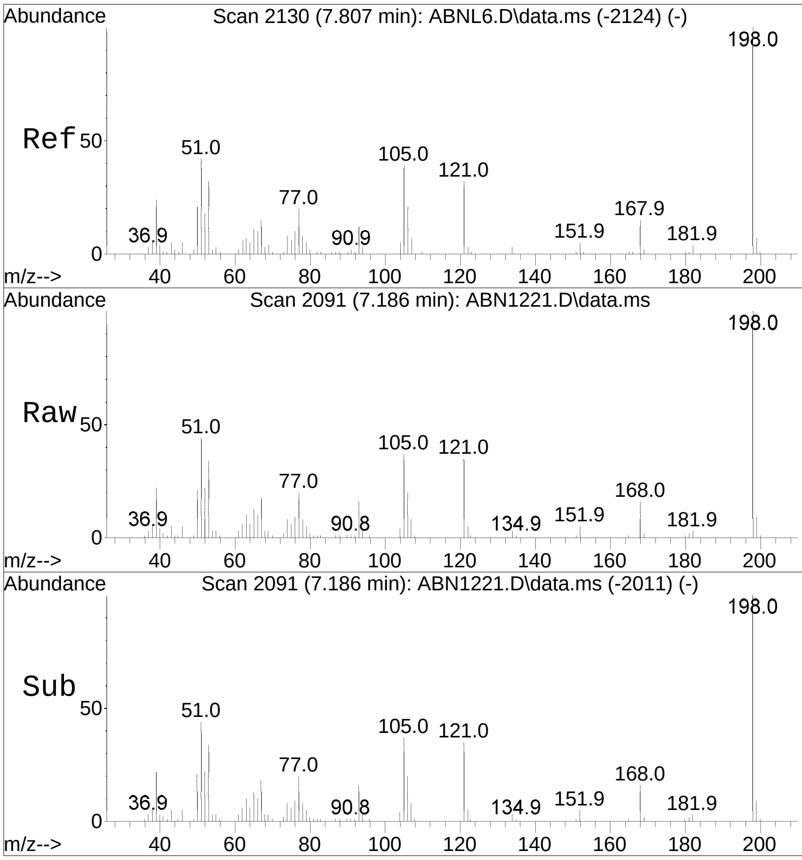



#77
4-Nitroaniline
Concen: 5.40 ug/ml
RT: 7.146 min Scan# 2078
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:138 Resp: 25258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 80.4 | 52.1 | 78.1# |
| 65 | 116.0 | 115.0 | 172.6 |

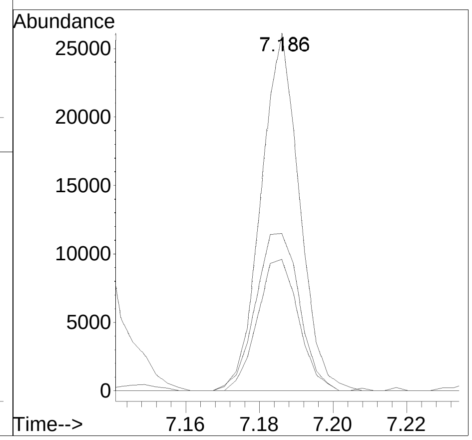


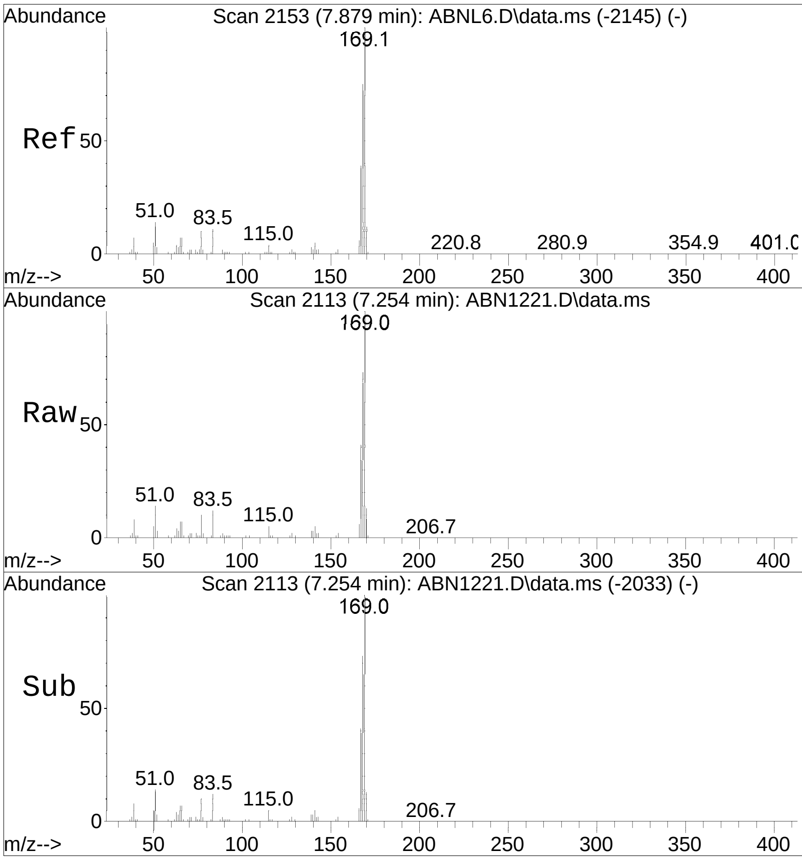



#78
4,6-Dinitro-o-cresol
Concen: 5.15 ug/ml
RT: 7.186 min Scan# 2091
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:198 Resp: 18867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 50.5 | 76.0 | 114.0# |
| 105 | 39.5 | 45.6 | 68.4# |

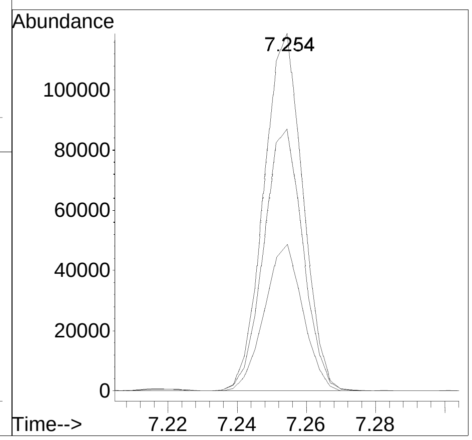


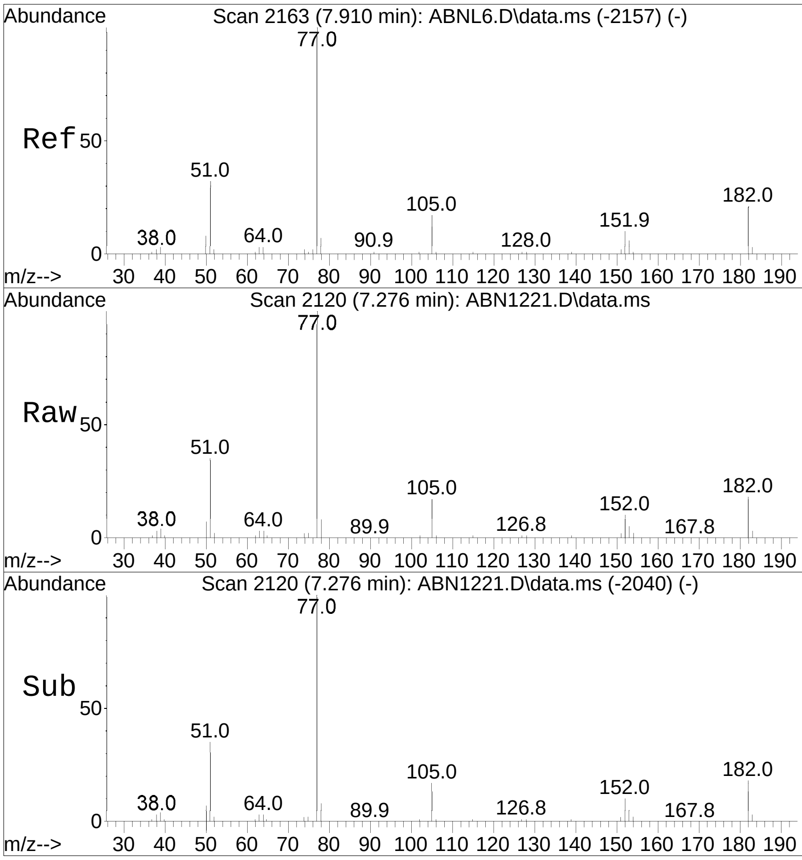



#79
NDPA/DPA
Concen: 4.45 ug/ml
RT: 7.254 min Scan# 2113
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:169 Resp: 93152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 73.7 | 54.0 | 81.0 |
| 167 | 40.3 | 28.6 | 42.8 |

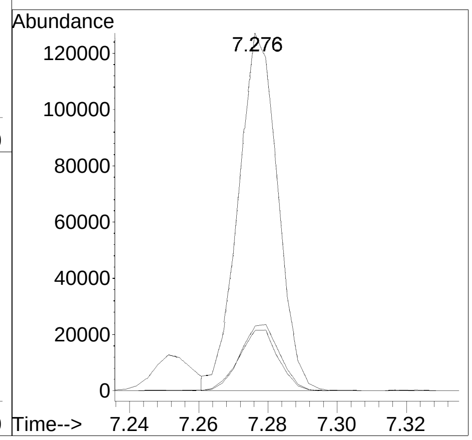


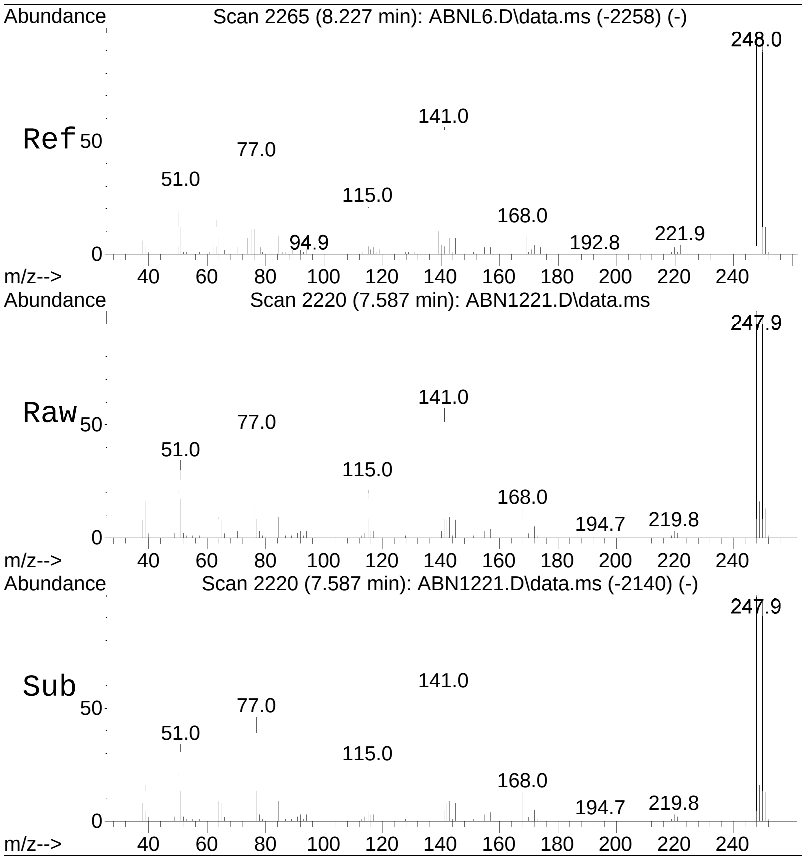



#80
Azobenzene
Concen: 5.00 ug/ml
RT: 7.276 min Scan# 2120
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion: 77 Resp: 100256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 18.7 | 17.4 | 26.2 |
| 105 | 17.2 | 15.4 | 23.2 |

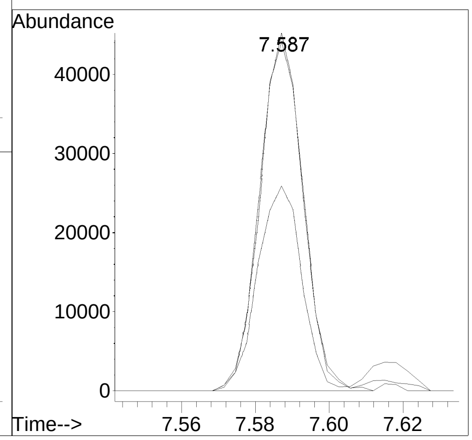


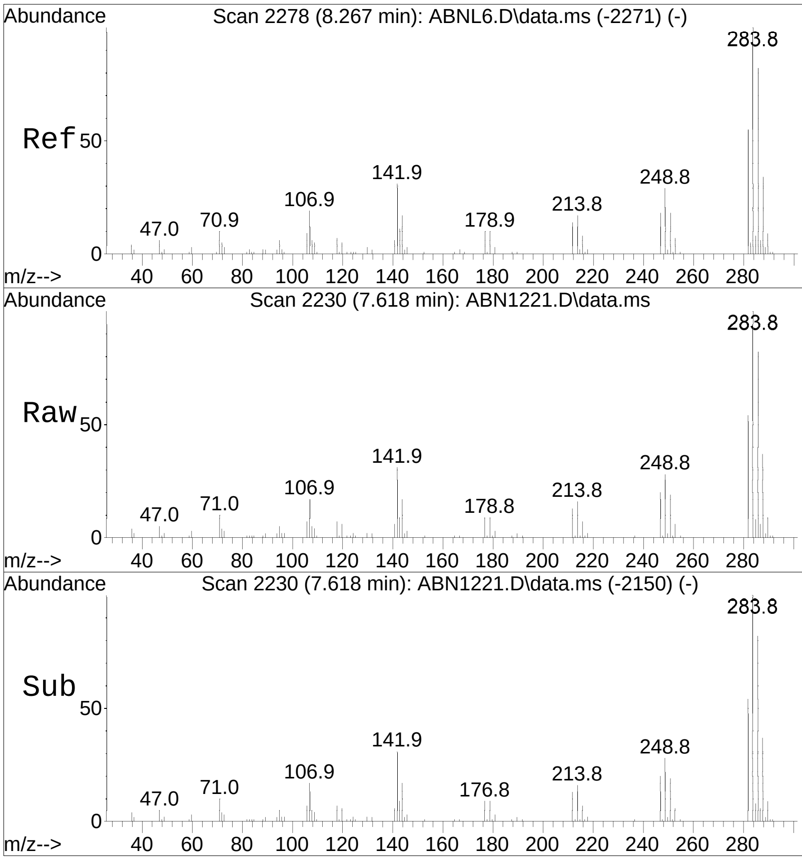



#82
4-Bromophenyl phenyl ether
Concen: 4.49 ug/ml
RT: 7.587 min Scan# 2220
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:248 Resp: 36651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 141 | 58.6 | 76.6 | 114.8# |
| 250 | 98.1 | 77.3 | 115.9 |

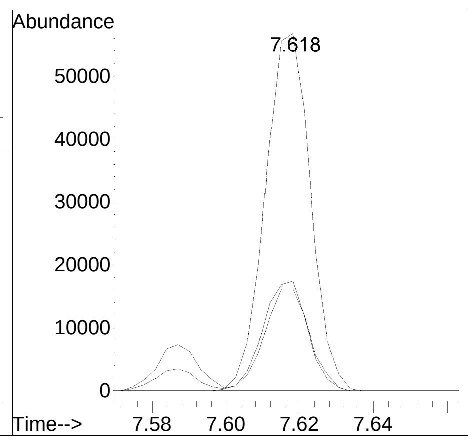


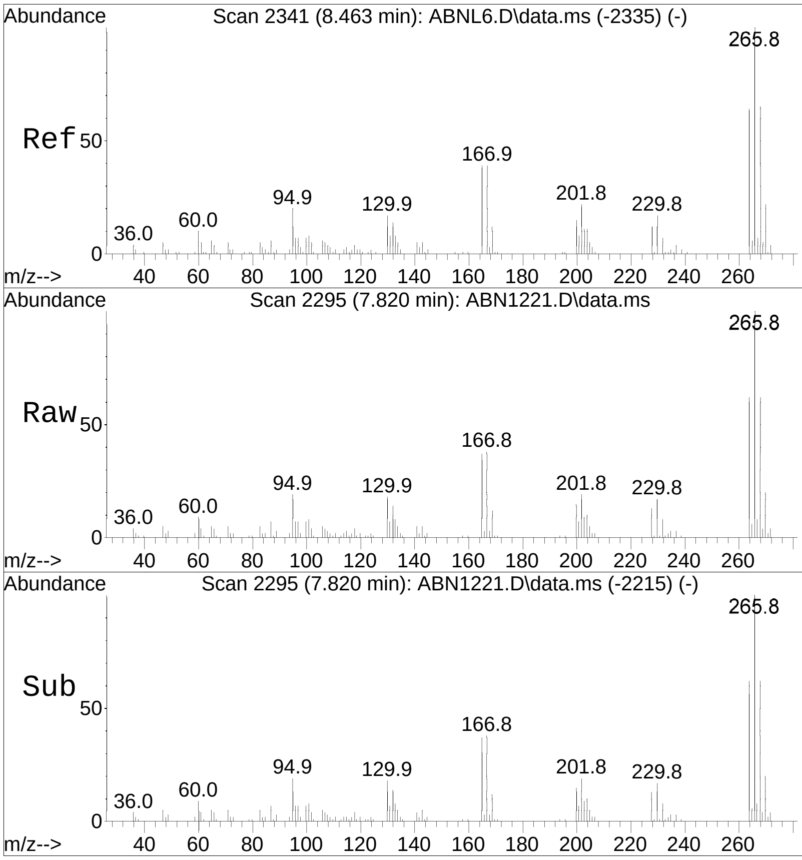



#83
Hexachlorobenzene
Concen: 4.70 ug/ml
RT: 7.618 min Scan# 2230
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:284 Resp: 48297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 30.4 | 41.9 | 62.9# |
| 249 | 28.6 | 24.1 | 36.1 |

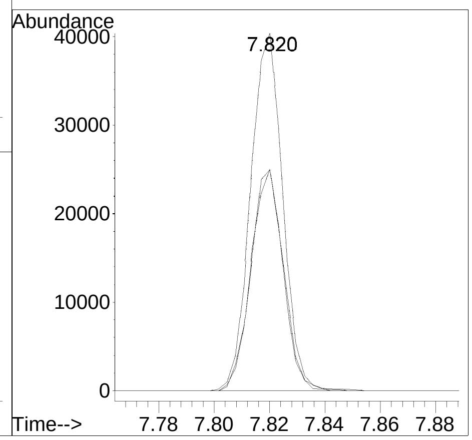


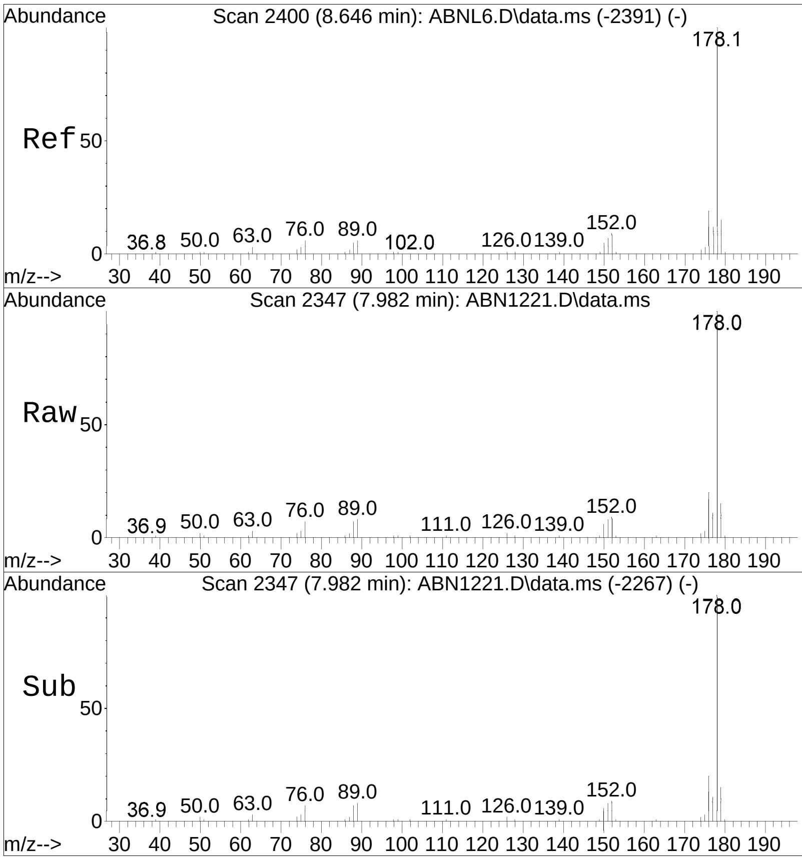



#84
Pentachlorophenol
Concen:    5.84 ug/ml
RT:   7.820 min  Scan# 2295
Delta R.T.  0.000 min
Lab File:   ABN1221.D
Acq: 21 Dec 2024   6:27 am

Tgt Ion:266 Resp:   32562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.7 | 49.7 | 74.5 |
| 268 | 63.1 | 50.5 | 75.7 |

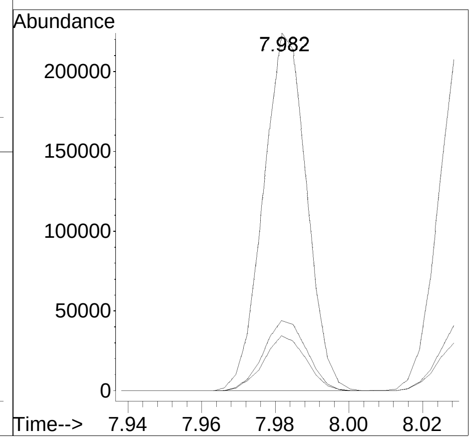


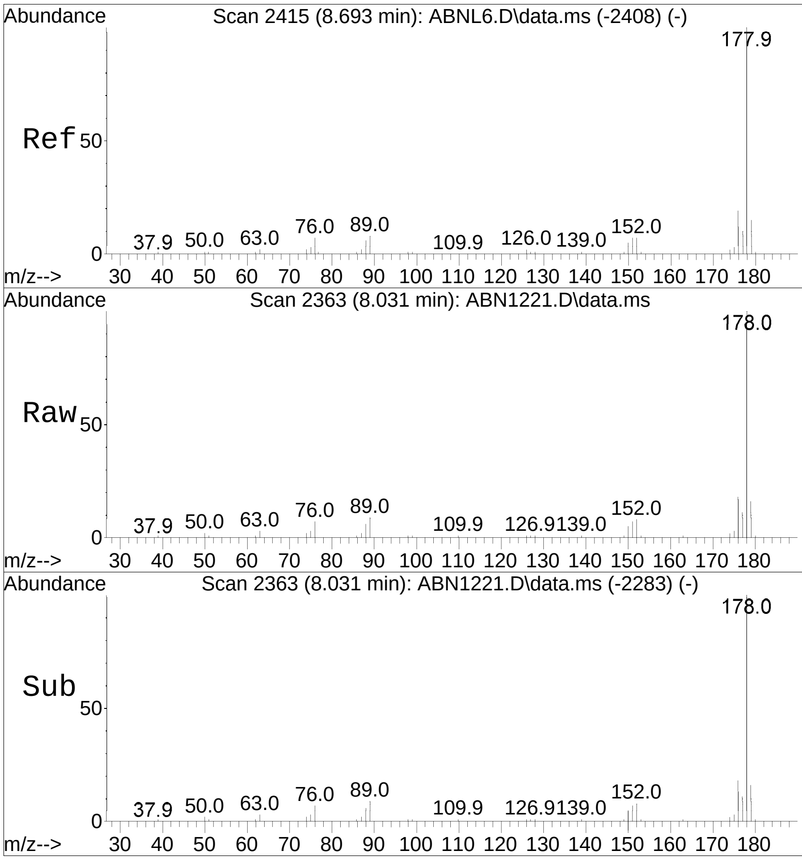



#91
Phenanthrene
Concen: 4.46 ug/ml
RT: 7.982 min Scan# 2347
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:178 Resp: 183092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.1 | 12.2 | 18.2 |
| 176 | 19.7 | 15.4 | 23.2 |

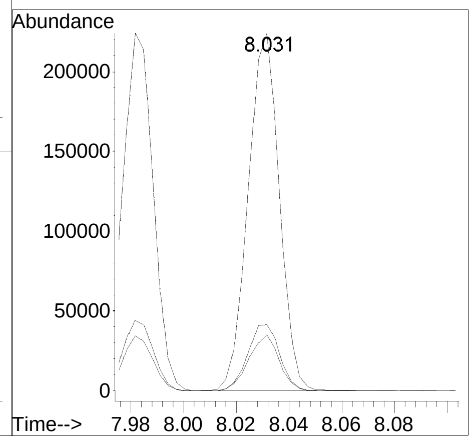


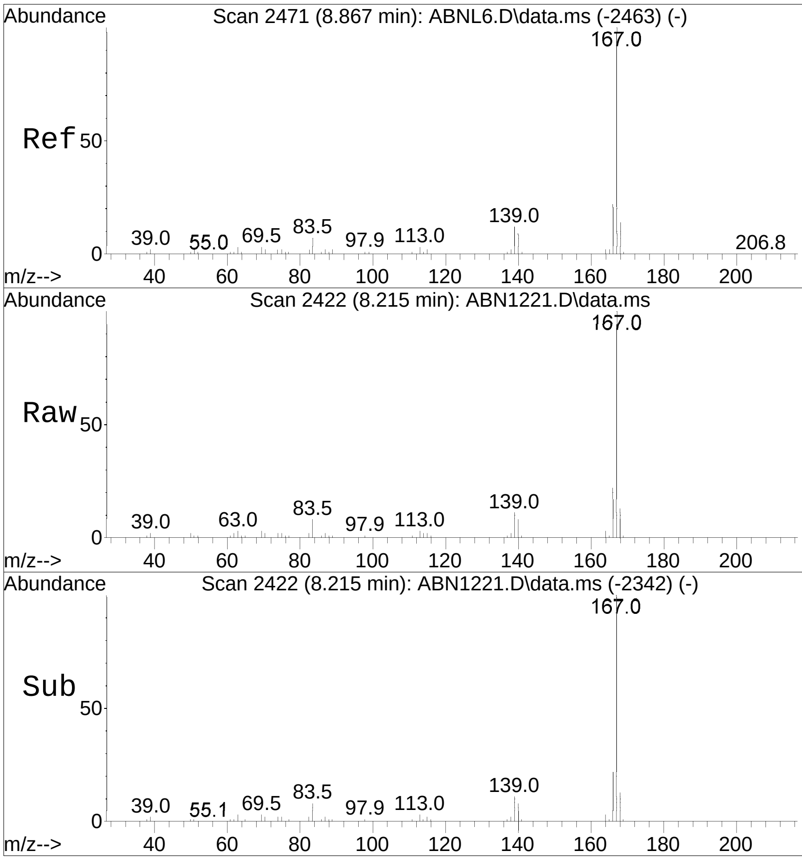



#92
Anthracene
Concen: 4.56 ug/ml
RT: 8.031 min Scan# 2363
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:178 Resp: 183653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.3 | 12.0 | 18.0 |
| 176 | 19.0 | 14.6 | 22.0 |

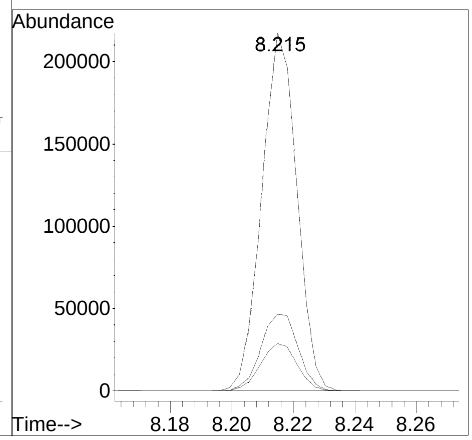


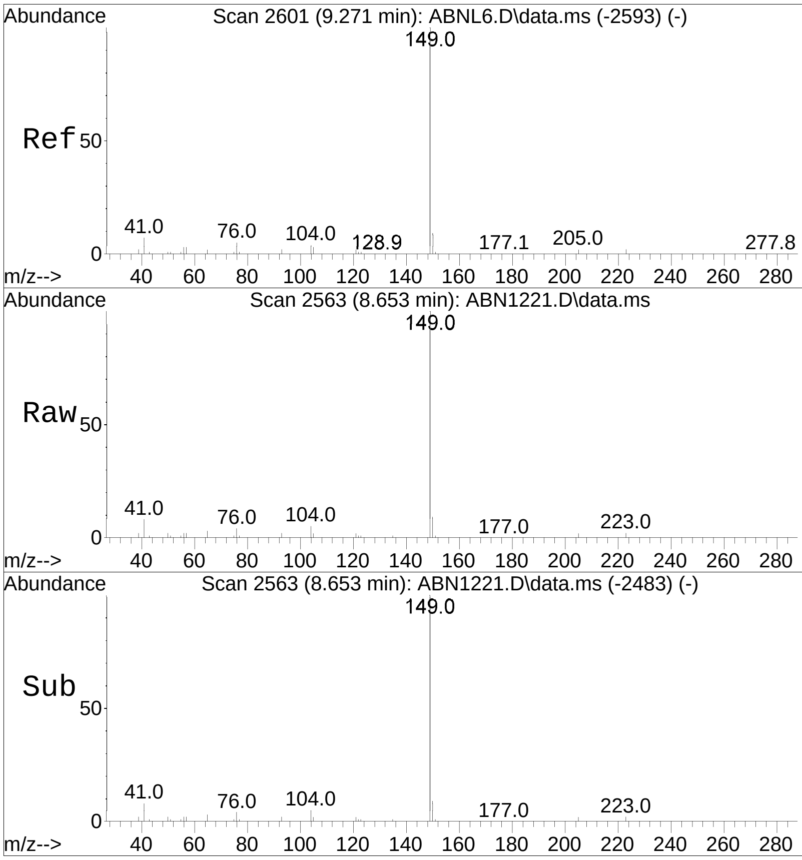



#93
Carbazole
Concen: 4.63 ug/ml
RT: 8.215 min Scan# 2422
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:167 Resp: 171397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 168 | 13.8 | 10.6 | 15.8 |
| 166 | 22.9 | 17.4 | 26.0 |

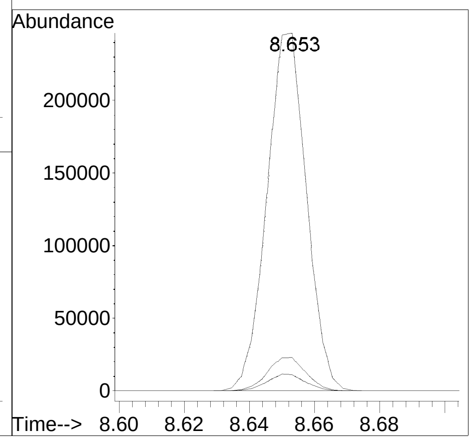


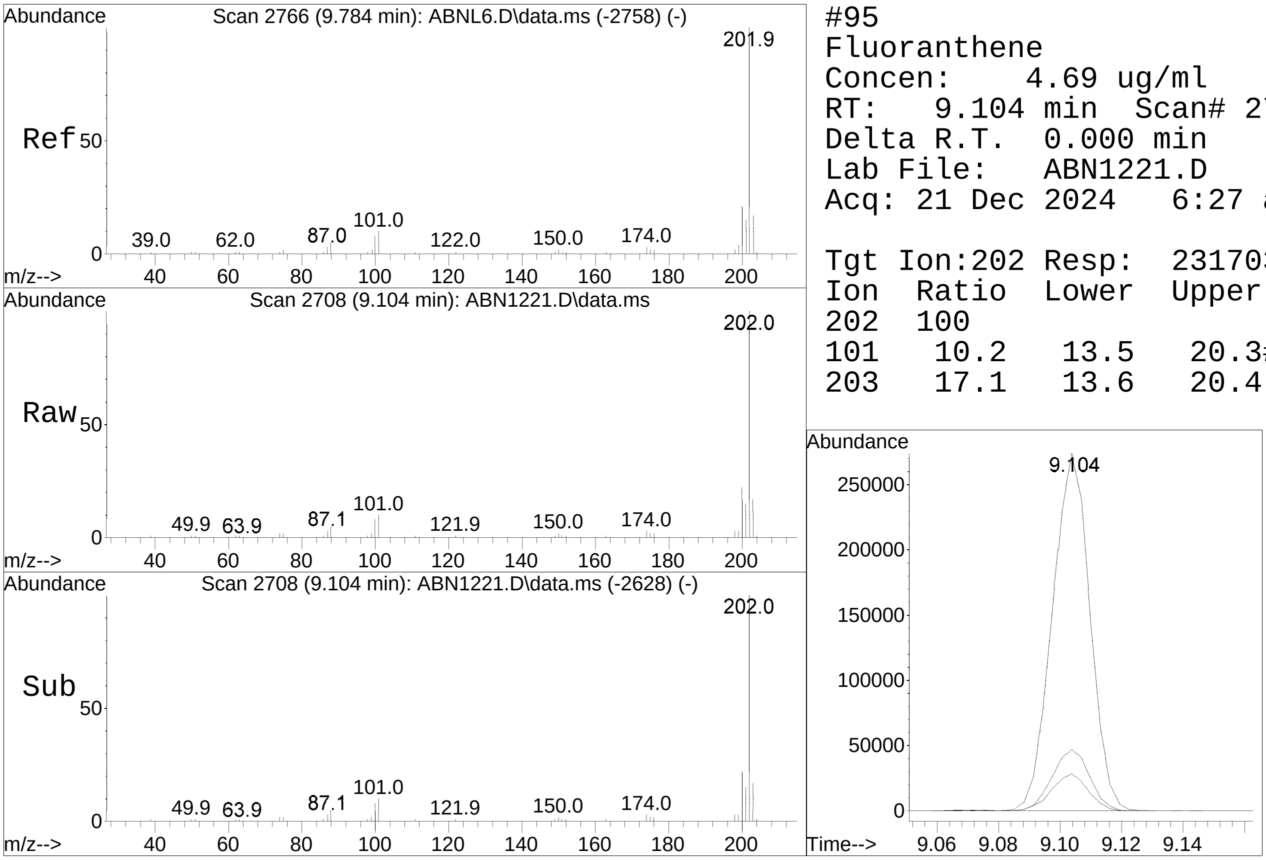



#94
Di-n-butylphthalate
Concen: 4.93 ug/ml
RT: 8.653 min Scan# 2563
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:149 Resp: 206798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.2 | 7.0 | 10.6 |
| 104 | 4.6 | 4.5 | 6.7 |

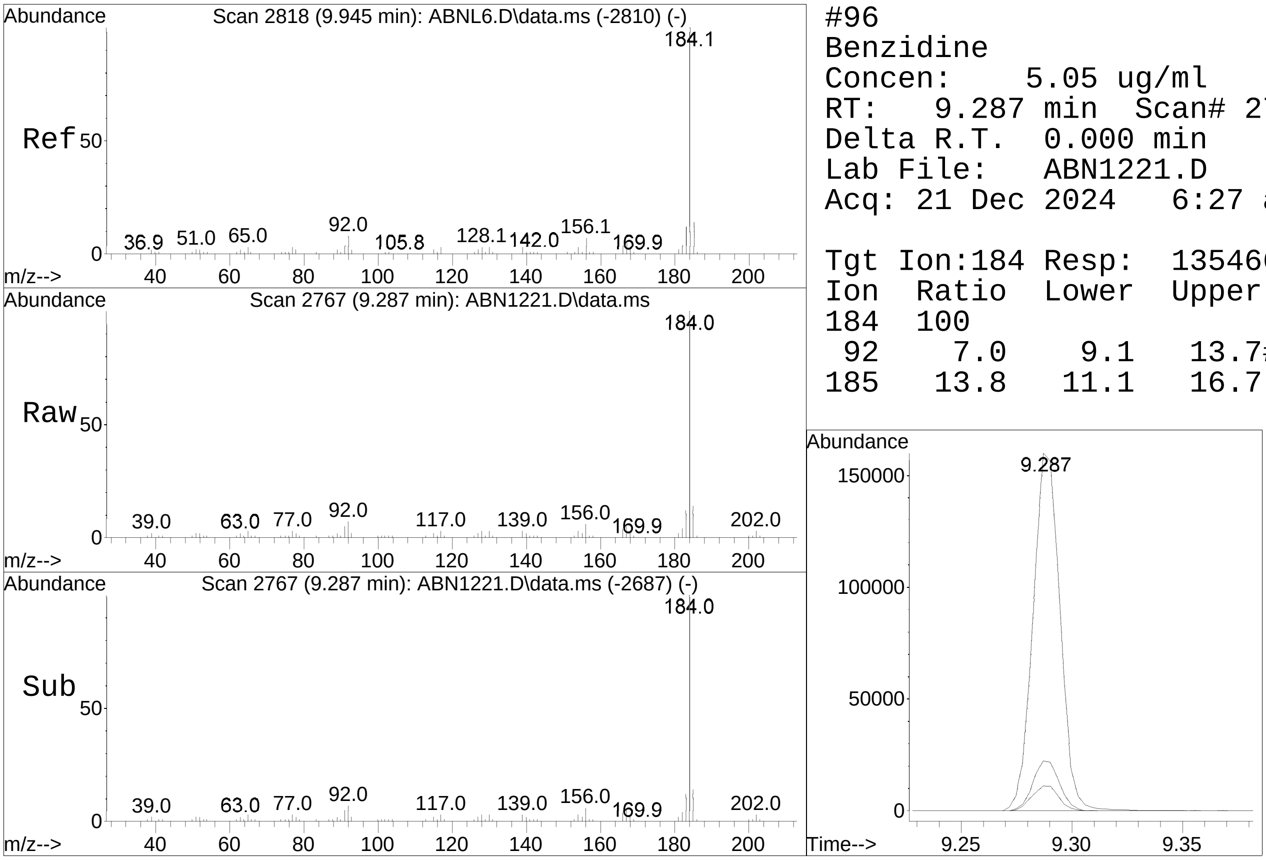





#95
Fluoranthene
Concen: 4.69 ug/ml
RT: 9.104 min Scan# 2708
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:202 Resp: 231703

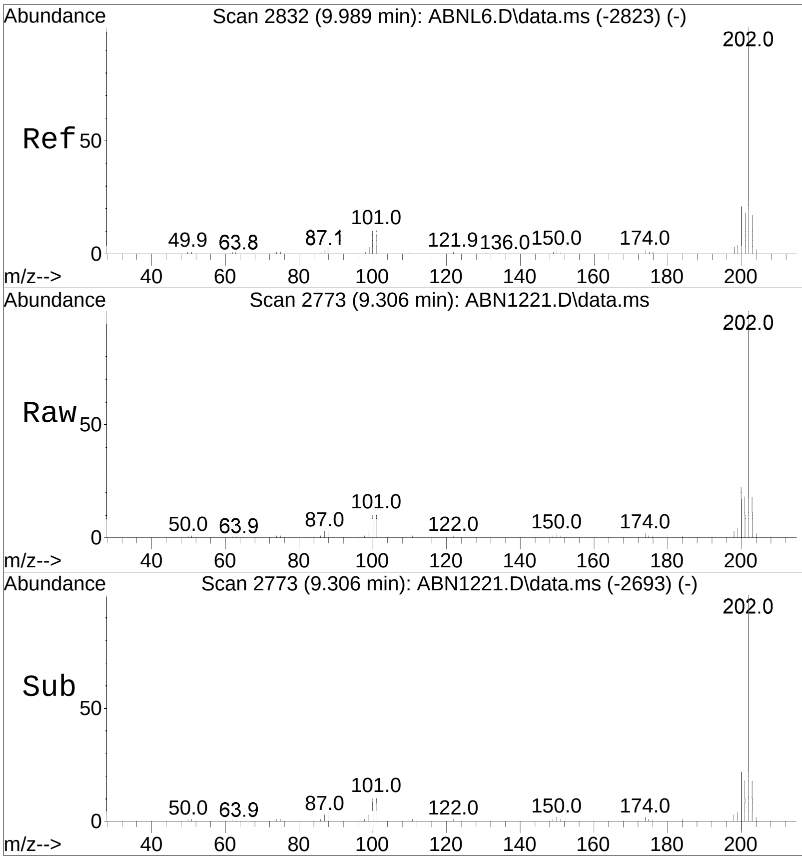
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.2 | 13.5 | 20.3# |
| 203 | 17.1 | 13.6 | 20.4 |




#96
Benzidine
Concen: 5.05 ug/ml
RT: 9.287 min Scan# 2767
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:184 Resp: 135466

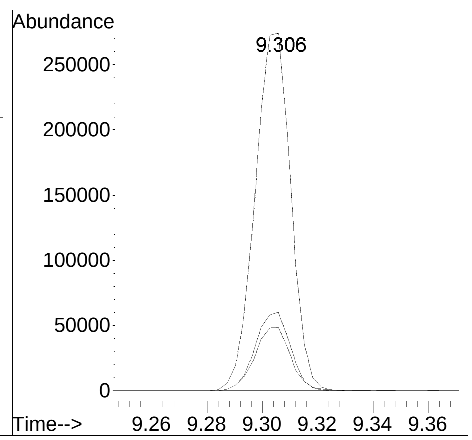
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 7.0 | 9.1 | 13.7# |
| 185 | 13.8 | 11.1 | 16.7 |

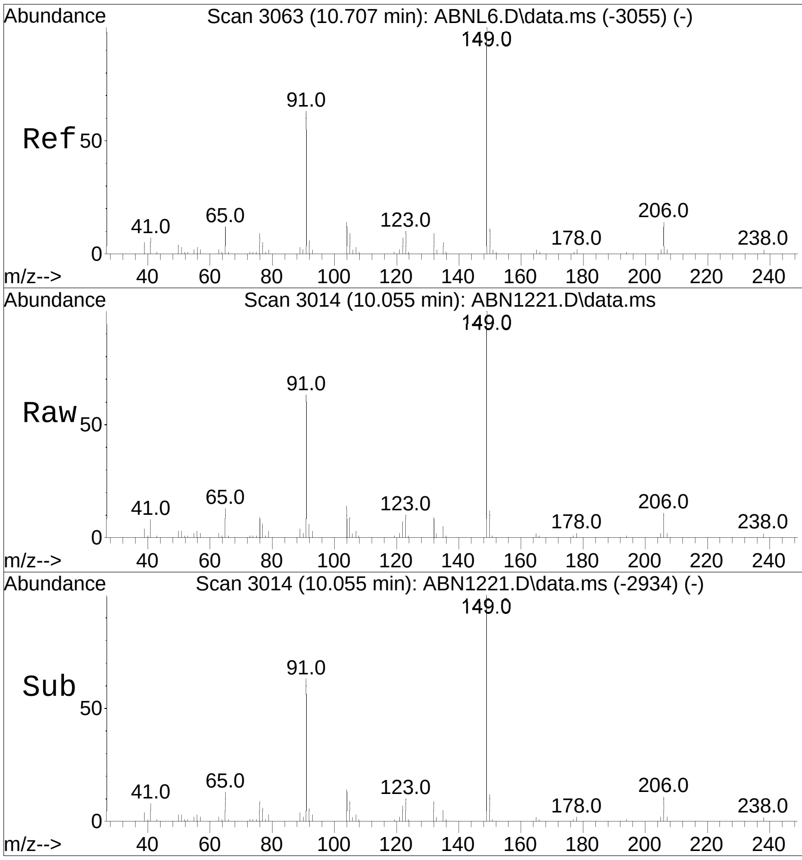



#97
Pyrene
Concen: 4.64 ug/ml
RT: 9.306 min Scan# 2773
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:202 Resp: 245156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.7 | 16.7 | 25.1 |
| 203 | 17.9 | 14.2 | 21.4 |

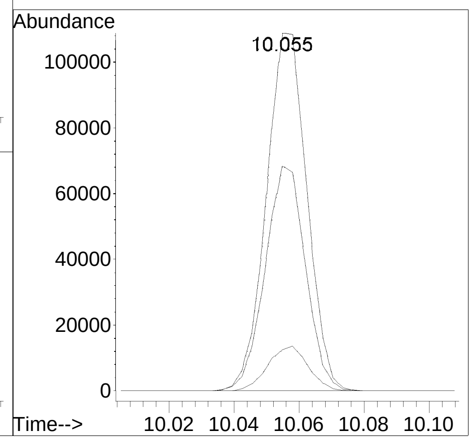


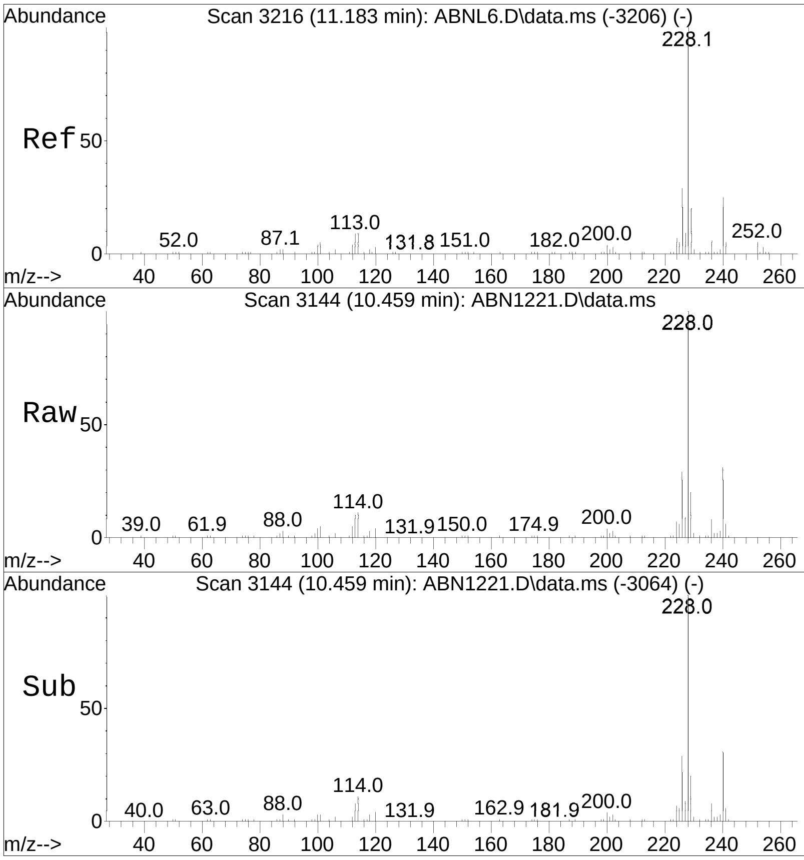



#99
Butyl benzyl phthalate
Concen: 5.24 ug/ml
RT: 10.055 min Scan# 3014
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:149 Resp: 94114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 62.7 | 63.3 | 94.9# |
| 206 | 12.4 | 13.9 | 20.9# |

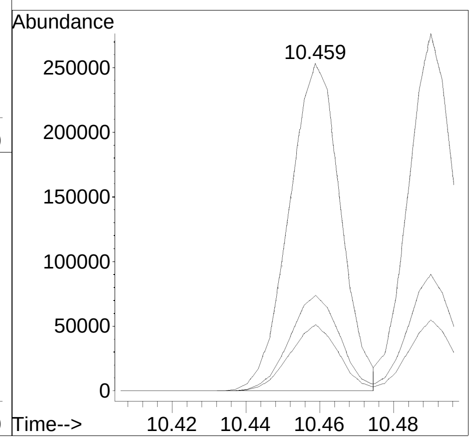


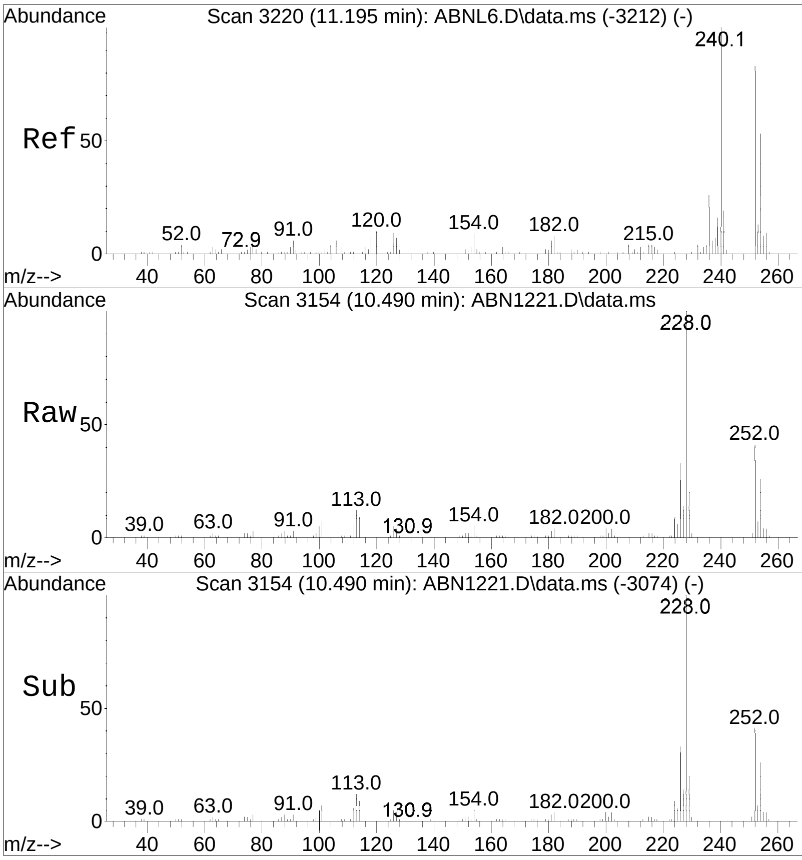



#107
Benzo(a)anthracene
Concen: 4.47 ug/ml
RT: 10.459 min Scan# 3144
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:228 Resp: 246146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.6 | 22.2 | 33.4 |
| 229 | 19.3 | 15.6 | 23.4 |

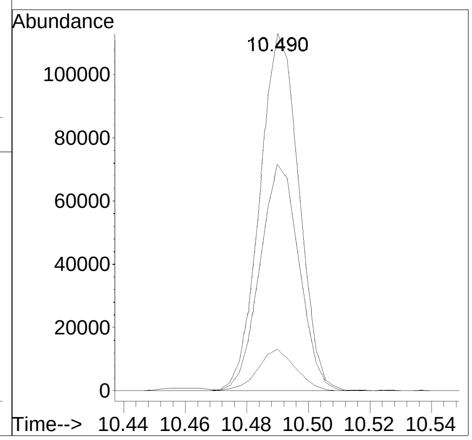


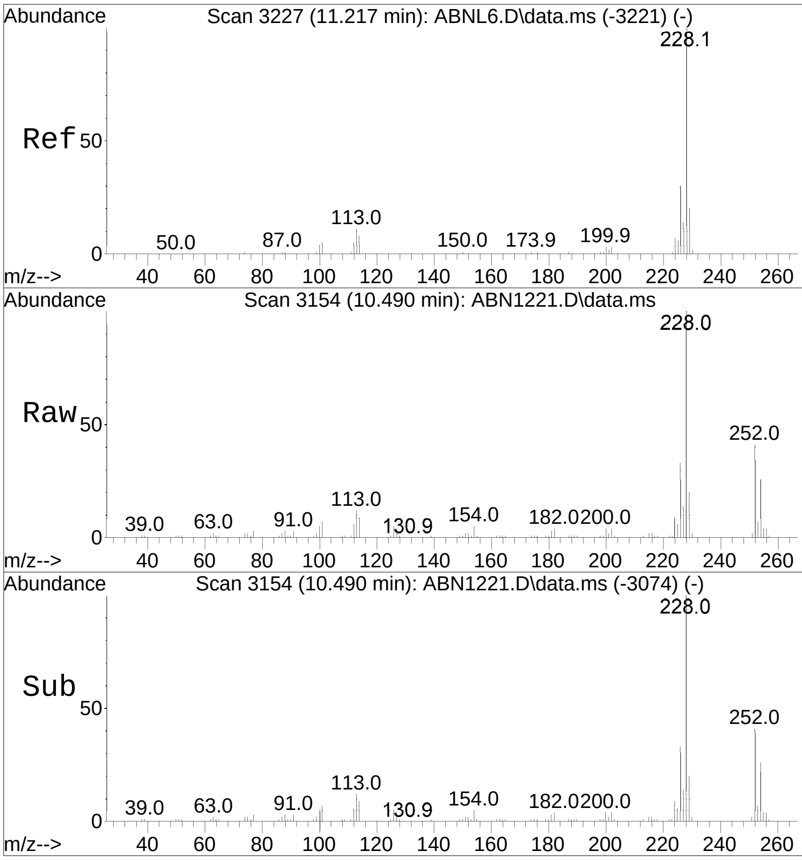



#108
3,3'-Dichlorobenzidine
Concen: 4.87 ug/ml
RT: 10.490 min Scan# 3154
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:252 Resp: 99754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 126 | 11.2 | 14.5 | 21.7# |
| 254 | 63.6 | 51.2 | 76.8 |

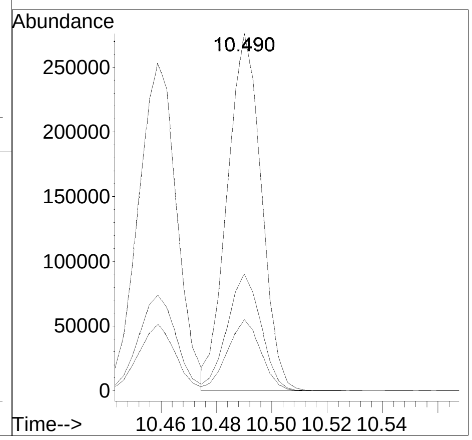


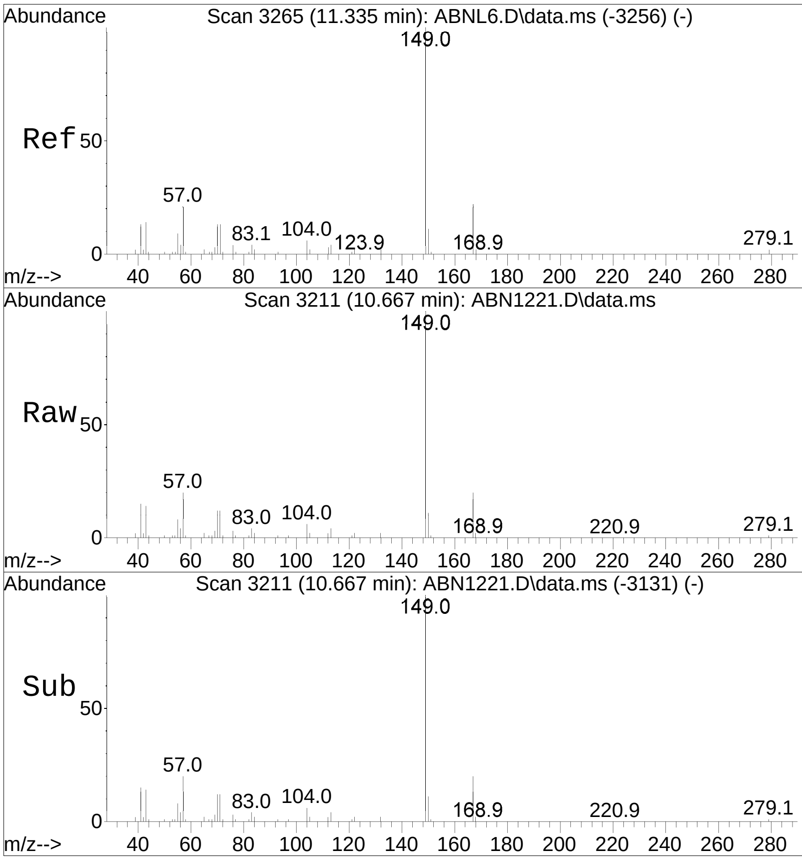



#109
Chrysene
Concen: 4.32 ug/ml
RT: 10.490 min Scan# 3154
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:228 Resp: 236622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.3 | 24.0 | 36.0 |
| 229 | 19.4 | 15.8 | 23.8 |

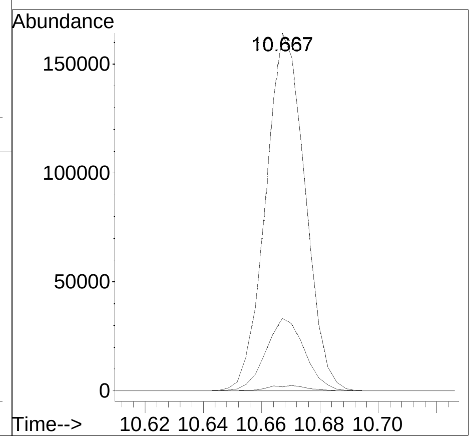


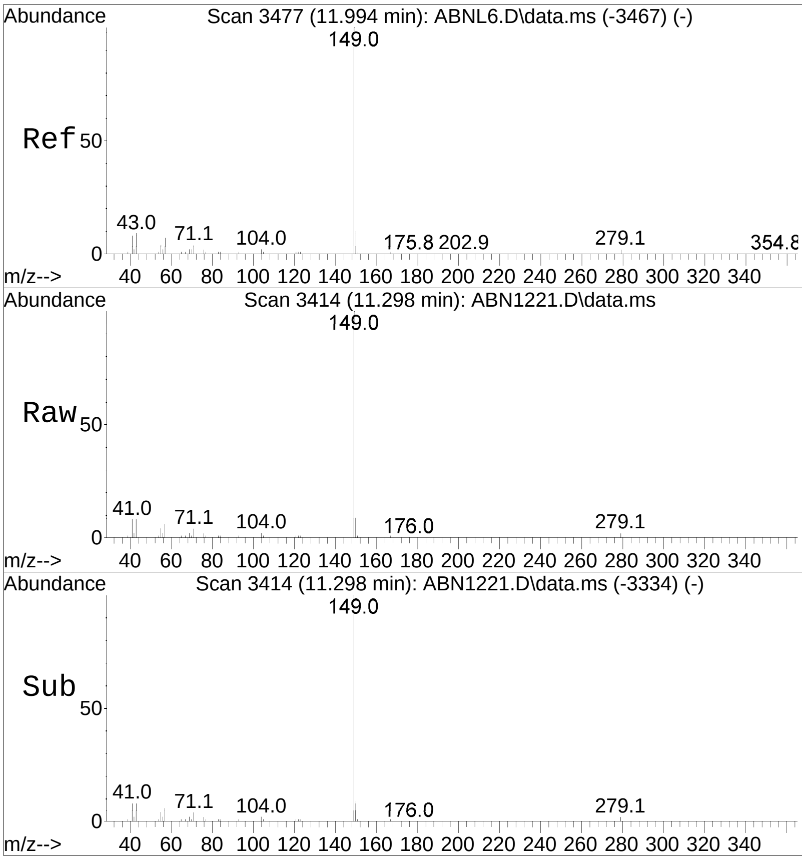



#110
Bis(2-ethylhexyl)phthalate
Concen: 5.18 ug/ml
RT: 10.667 min Scan# 3211
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:149 Resp: 152847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 20.0 | 22.1 | 33.1# |
| 279 | 1.4 | 3.0 | 4.4# |

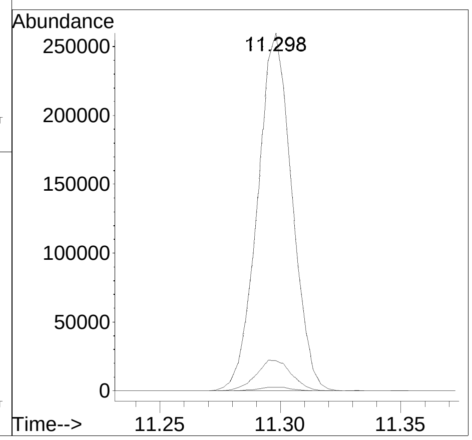


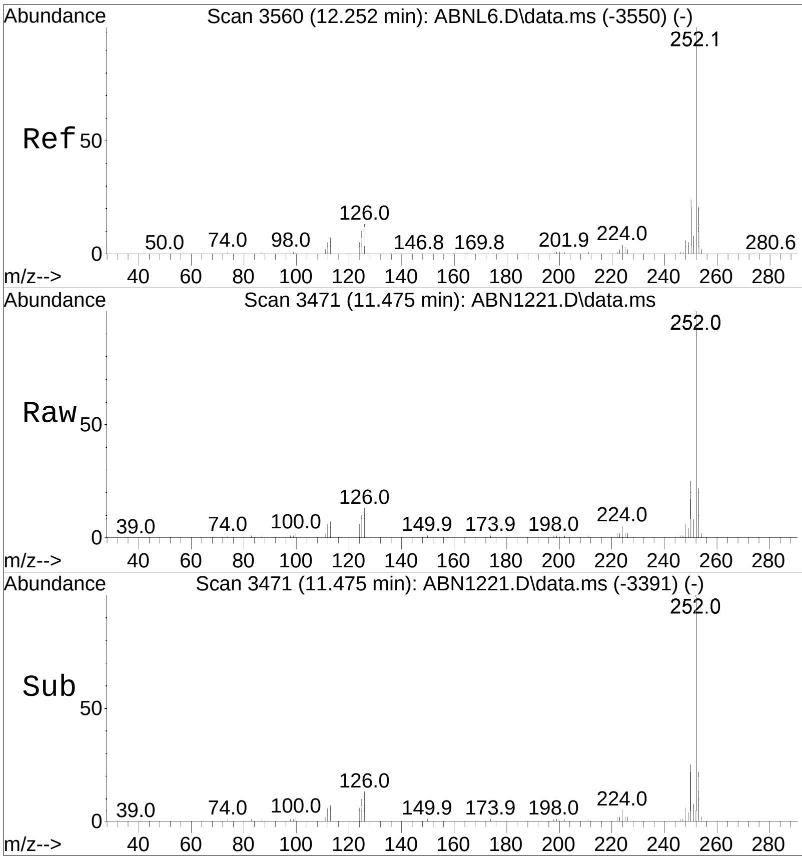



#111
Di-n-octylphthalate
Concen: 5.21 ug/ml
RT: 11.298 min Scan# 3414
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:149 Resp: 256542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 43 | 8.9 | 18.8 | 28.2# |
| 167 | 1.0 | 1.3 | 1.9# |

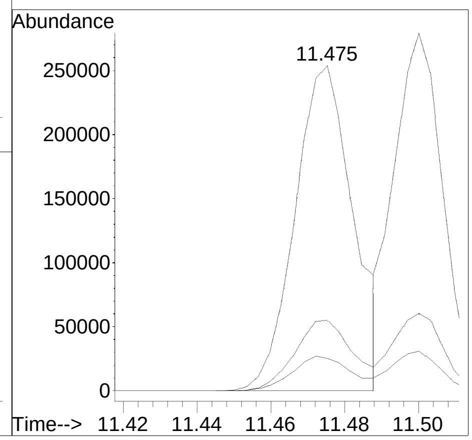


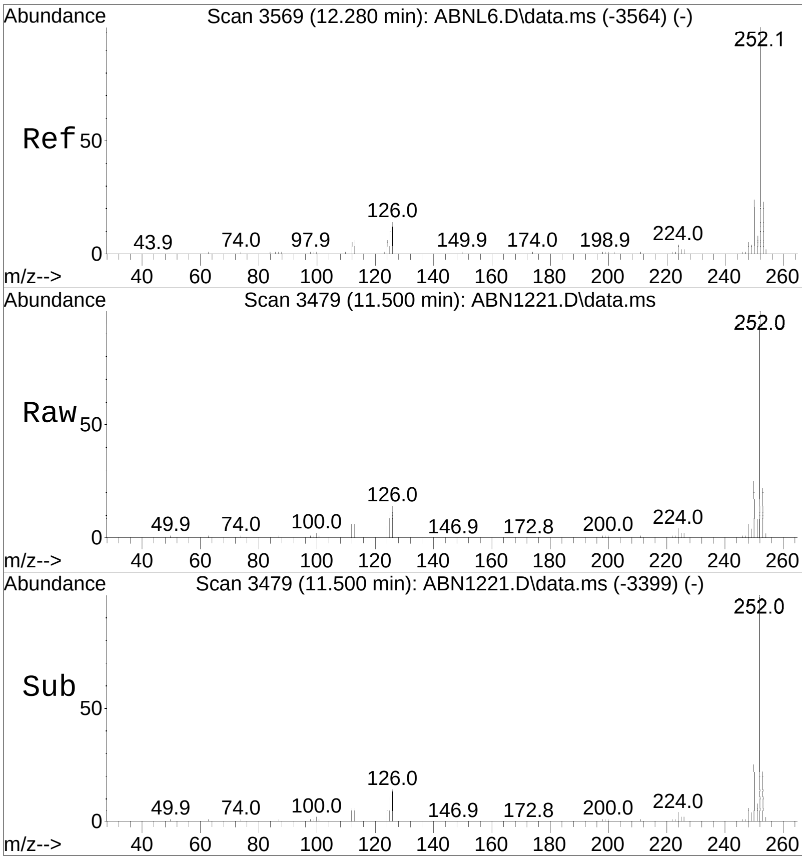



#112
Benzo(b)fluoranthene
Concen: 4.80 ug/ml
RT: 11.475 min Scan# 3471
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:252 Resp: 276597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 125 | 10.2 | 13.3 | 19.9# |
| 253 | 21.8 | 17.1 | 25.7 |

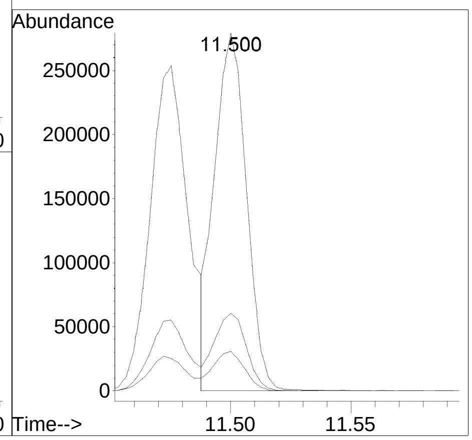


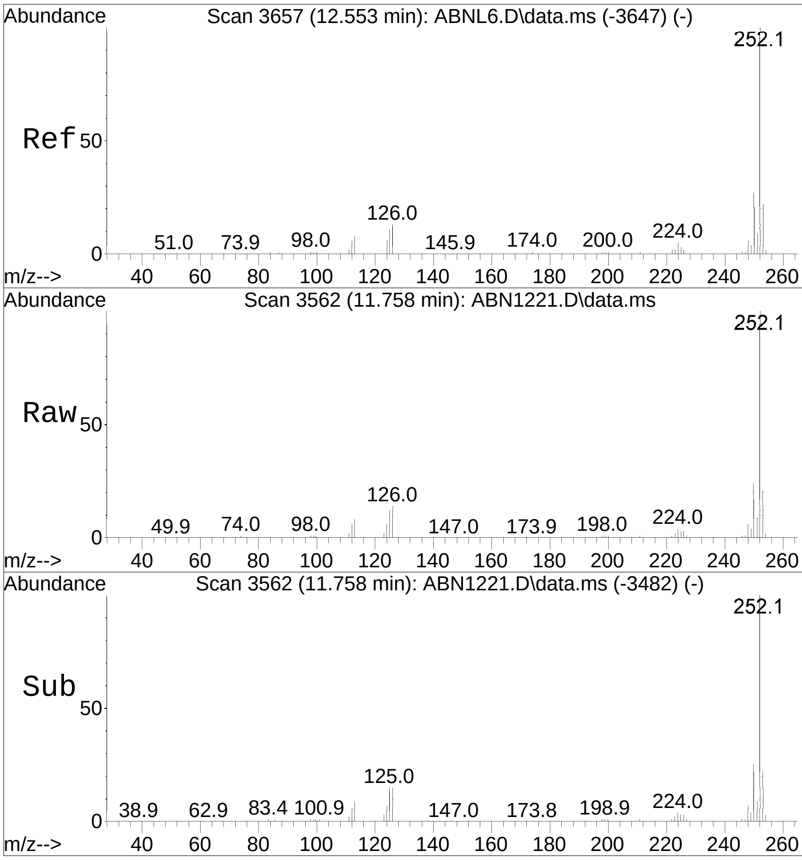



#113
Benzo(k)fluoranthene
Concen: 4.58 ug/ml
RT: 11.500 min Scan# 3479
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:252 Resp: 257041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 125 | 11.4 | 13.0 | 19.6# |
| 253 | 21.9 | 16.8 | 25.2 |

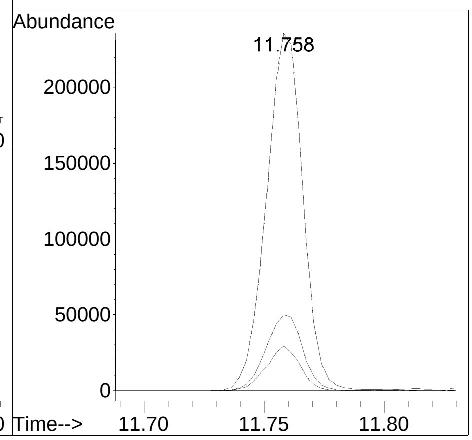


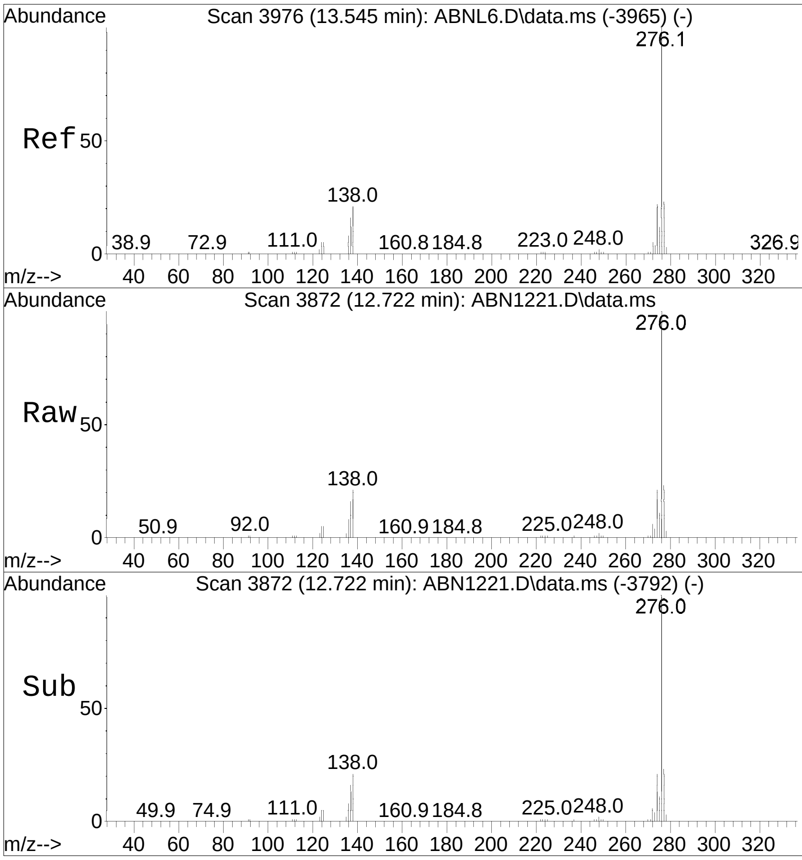



#114
Benzo(a)pyrene
Concen: 4.81 ug/ml
RT: 11.758 min Scan# 3562
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:252 Resp: 247484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 125 | 11.7 | 14.2 | 21.2# |
| 253 | 21.4 | 16.9 | 25.3 |

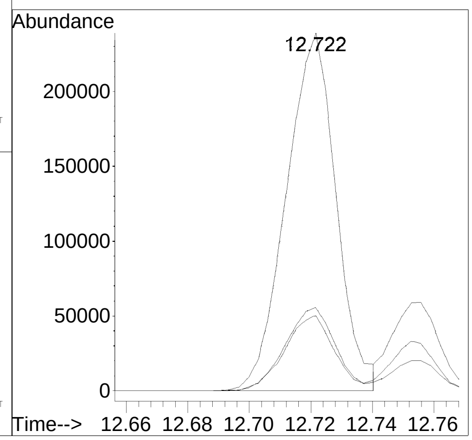


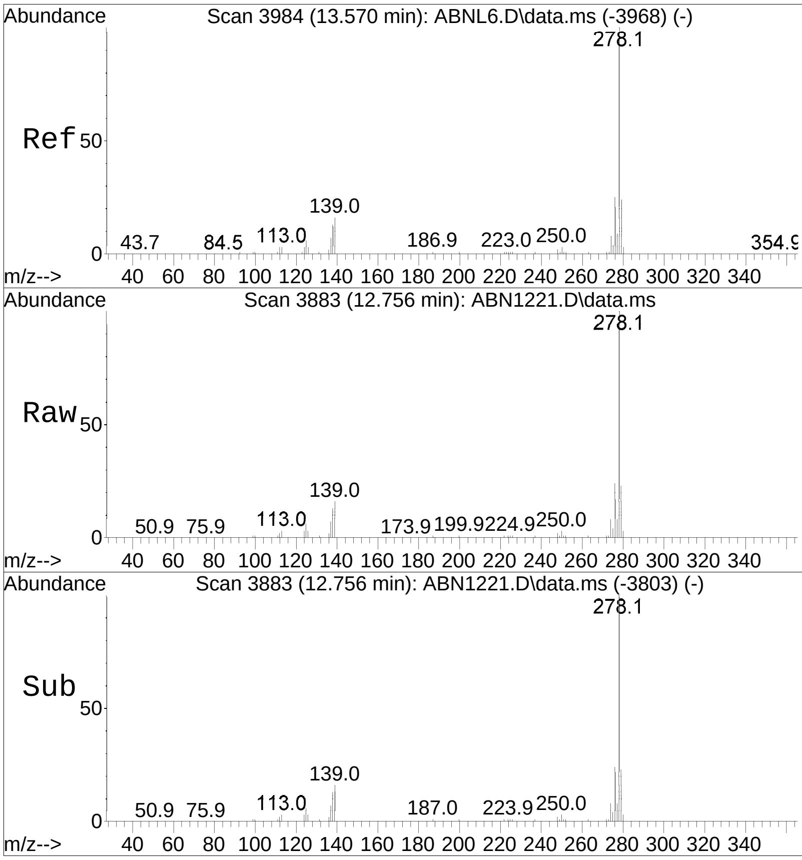



#116
Indeno(1,2,3-cd)pyrene
Concen: 4.44 ug/mL
RT: 12.722 min Scan# 3872
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:276 Resp: 267651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 21.0 | 25.1 | 37.7# |
| 277 | 23.4 | 18.6 | 28.0 |

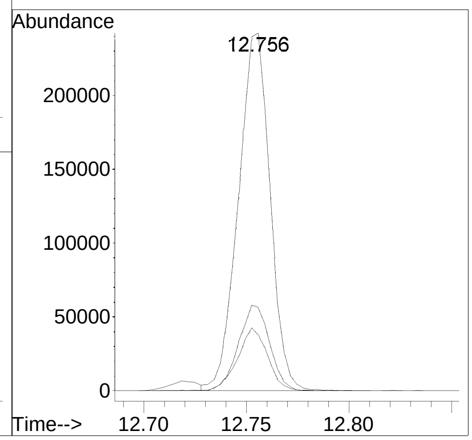


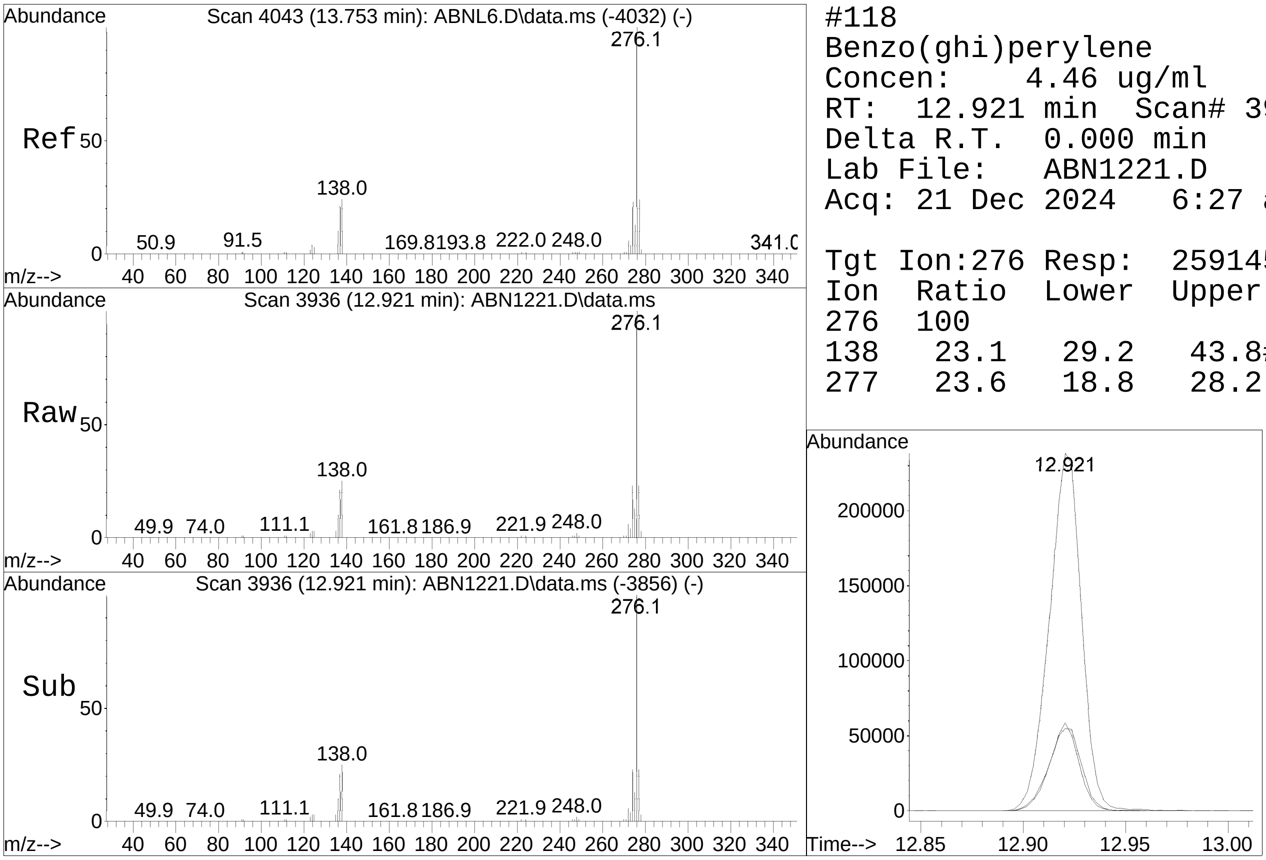



#117
Dibenzo(a,h)anthracene
Concen: 4.38 ug/ml
RT: 12.756 min Scan# 3883
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:278 Resp: 259403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 16.6 | 20.8 | 31.2# |
| 279 | 23.9 | 18.3 | 27.5 |






#118
Benzo(ghi)perylene
Concen: 4.46 ug/ml
RT: 12.921 min Scan# 3936
Delta R.T. 0.000 min
Lab File: ABN1221.D
Acq: 21 Dec 2024 6:27 am

Tgt Ion:276 Resp: 259145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.1 | 29.2 | 43.8# |
| 277 | 23.6 | 18.8 | 28.2 |

Manual Integration Report

```
Data Path   : I:\8270\Dakota\241221RVT\ QMethod     : FS241105RVT_Dakota.m
Data File   : ABN1221.D                 Operator    : Dakota:smz
Date Inj'd  : 12/21/2024  6:27 am       Instrument  : Dakota
Sample      : wg2012119-3,32,,ABN 11043 Quant Date  : 12/21/2024  7:32 am
```

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241221RVT\
Data File : AP91221.D
Acq On    : 21 Dec 2024   6:50 am
Operator  : Dakota:smz
Sample    : wg2012119-4,32,,AP9 11152 HNY1205A
Misc      : wg2012119,,ical21680
ALS Vial  : 97   Sample Multiplier: 1

Quant Time: Dec 21 07:32:15 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:32:54 2024
Response via : Initial Calibration

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 27 | I | IS2_1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 81 | 0.00 |
| 28 | T | Benzaldehyde | 0.703 | 0.798 | -13.5 | 85 | 0.00 |
| 29 | T | Acetophenone | 1.403 | 1.658 | -18.2 | 92 | 0.00 |
| 30 | T | m-Toluidine | 1.287 | 1.438 | -11.7 | 89 | 0.00 |
| 31 | T | 2-Chloroaniline | 1.368 | 1.590 | -16.2 | 91 | 0.00 |
| 57 | I | IS2_Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 58 | T | a-Terpineol | 0.221 | 0.254 | -14.9 | 98 | 0.00 |
| 59 | T | 3-Chloroaniline | 0.115 | 0.133 | -15.7 | 96 | 0.00 |
| 60 | T | 2,6-Dichlorophenol | 0.296 | 0.338 | -14.2 | 96 | 0.00 |
| 61 | T | 1-chloro-2-nitrobenzene | 0.113 | 0.137 | -21.2# | 99 | 0.00 |
| 62 | T | Caprolactam | 0.123 | 0.139 | -13.0 | 99 | 0.00 |
| 63 | T | 1,2,4,5-Tetrachlorobenzene | 0.413 | 0.435 | -5.3 | 90 | 0.00 |
| 64 | T | Biphenyl | 0.842 | 0.896 | -6.4 | 90 | 0.00 |
| 85 | I | IS2_Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 86 | T | Dichloran | 0.169 | 0.193 | -14.2 | 109 | 0.00 |
| 87 | T | Pentachloronitrobenzene | 0.187 | 0.221 | -18.2 | 114 | 0.00 |
| 100 | I | IS2_Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 101 | T | Diphenamid | 0.416 | 0.448 | -7.7 | 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\Dakota\241221RVT\
Data File : AP91221.D
Acq On : 21 Dec 2024 6:50 am
Operator : Dakota:smz
Sample : wg2012119-4,32,,AP9 11152 HNY1205A
Misc : wg2012119,,ical21680
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Dec 21 07:32:15 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:32:54 2024
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... | 3.630 | 152 | 23078 | 4.000 | ug/ml | 0.00 |
| 57) IS2_Naphthalene-d8 | 4.892 | 136 | 89152 | 4.000 | ug/ml | # 0.00 |
| 85) IS2_Acenaphthene-d10 | 6.571 | 164 | 59962 | 4.000 | ug/ml | 0.00 |
| 100) IS2_Phenanthrene-d10 | 7.960 | 188 | 140332 | 4.000 | ug/ml | 0.00 |
| System Monitoring Compounds | | | | | | |
| Target Compounds | | | | | | Qvalue |
| 28) Benzaldehyde | 3.167 | 105 | 23025 | 5.673 | ug/ml | 100 |
| 29) Acetophenone | 4.069 | 105 | 47824 | 5.906 | ug/ml# | 79 |
| 30) m-Toluidine | 4.162 | 106 | 41490 | 5.589 | ug/ml | 96 |
| 31) 2-Chloroaniline | 4.516 | 127 | 45872 | 5.812 | ug/ml# | 91 |
| 58) a-Terpineol | 4.982 | 59 | 28319 | 5.739 | ug/ml# | 85 |
| 59) 3-Chloroaniline | 4.992 | 65 | 14788 | 5.790 | ug/ml | 97 |
| 60) 2,6-Dichlorophenol | 5.010 | 162 | 37650 | 5.715 | ug/ml# | 83 |
| 61) 1-chloro-2-nitrobenzene | 5.262 | 111 | 15318 | 6.058 | ug/ml# | 1 |
| 62) Caprolactam | 5.306 | 55 | 15525 | 5.668 | ug/ml# | 75 |
| 63) 1,2,4,5-Tetrachloroben... | 5.763 | 216 | 48450 | 5.264 | ug/ml# | 96 |
| 64) Biphenyl | 6.058 | 154 | 99878 | 5.324 | ug/ml | 97 |
| 86) Dichloran | 7.693 | 206 | 14499 | 5.724 | ug/ml# | 60 |
| 87) Pentachloronitrobenzene | 7.833 | 237 | 16583 | 5.930 | ug/ml# | 73 |
| 101) Diphenamid | 8.895 | 167 | 78571 | 5.384 | ug/ml# | 76 |

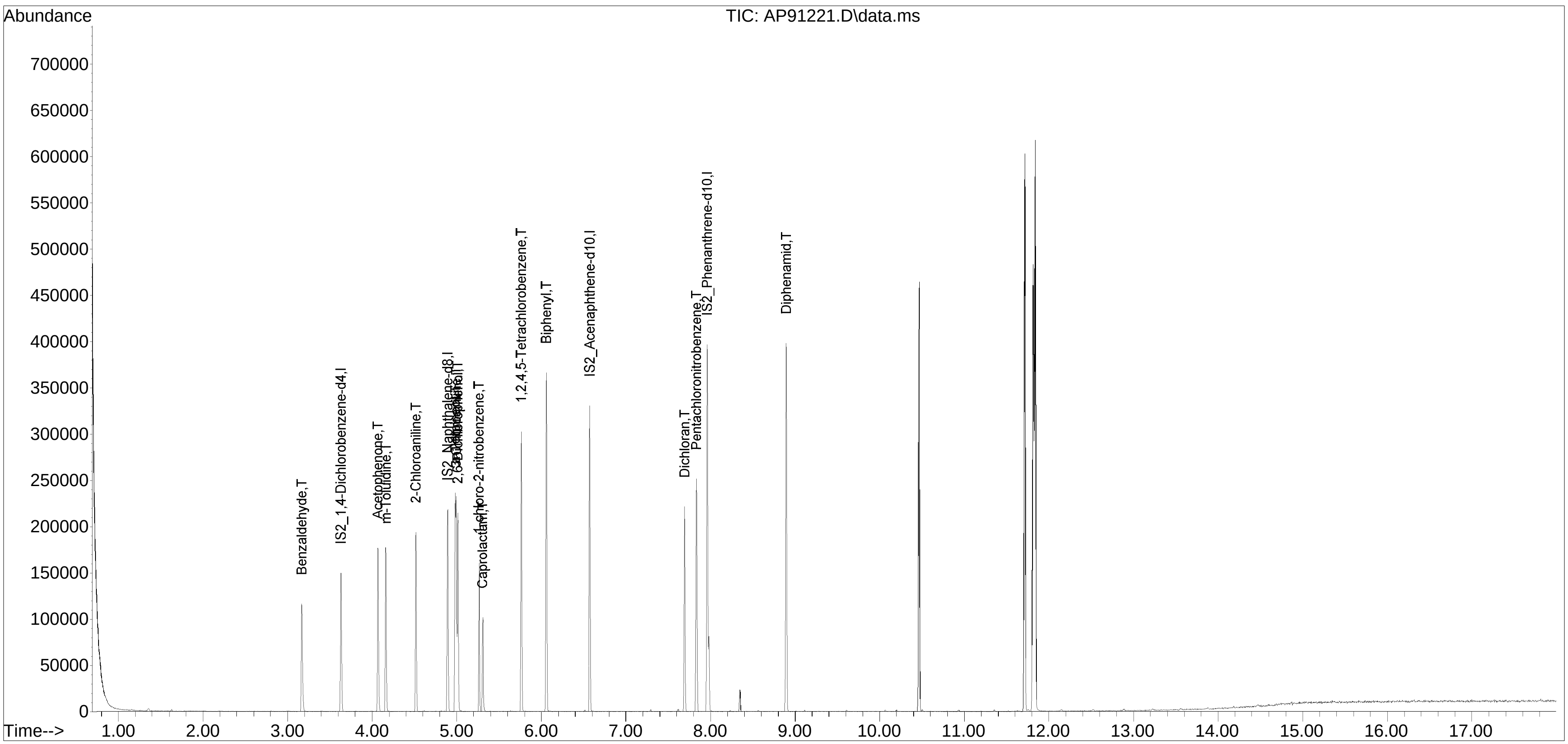
(#) = qualifier out of range (m) = manual integration (+) = signals summed

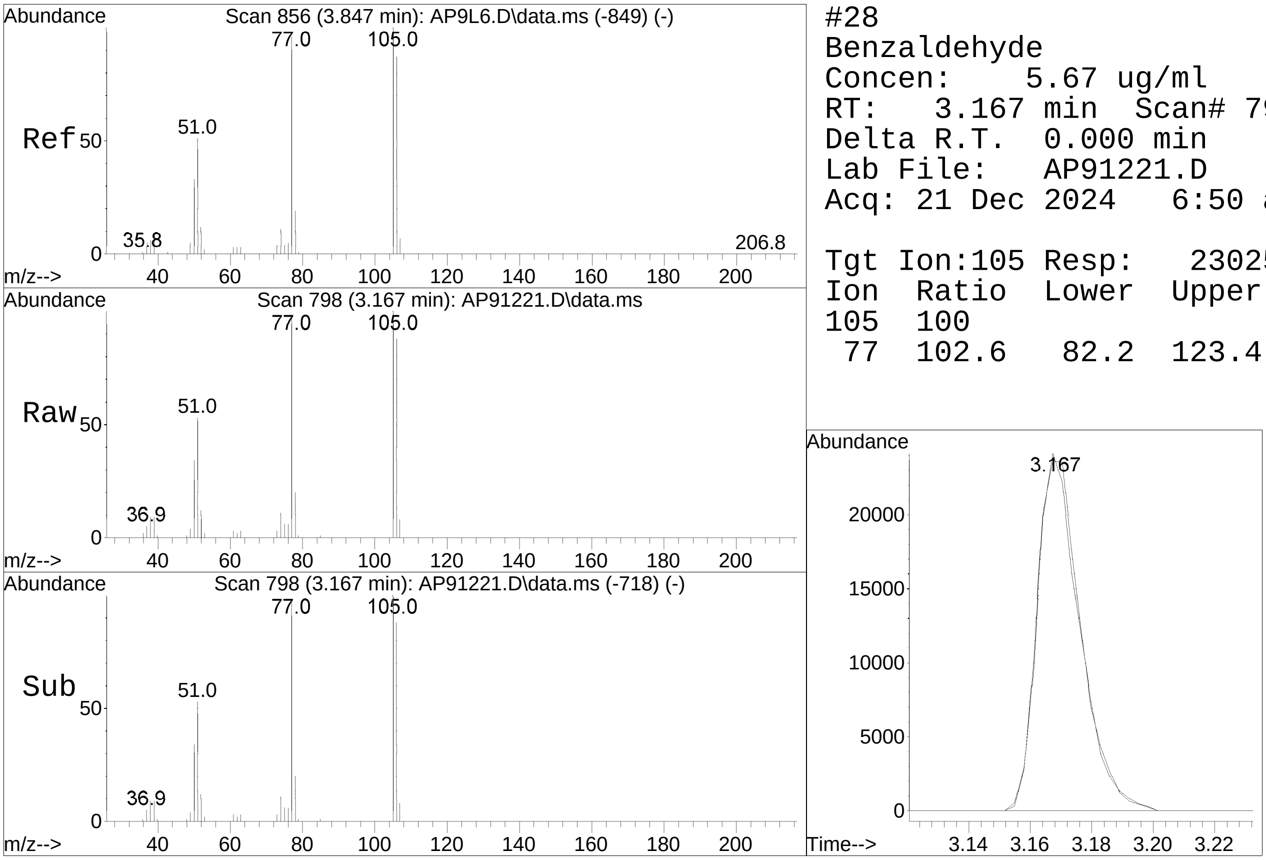
Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241221RVT\
Data File : AP91221.D
Acq On    : 21 Dec 2024   6:50 am
Operator  : Dakota:smz
Sample    : wg2012119-4,32,,AP9 11152 HNY1205A
Misc      : wg2012119,,ical21680
ALS Vial  : 97   Sample Multiplier: 1

Quant Time: Dec 21 07:32:15 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:32:54 2024
Response via : Initial Calibration

Sub List     : AP9ical - AP9 ical sublist

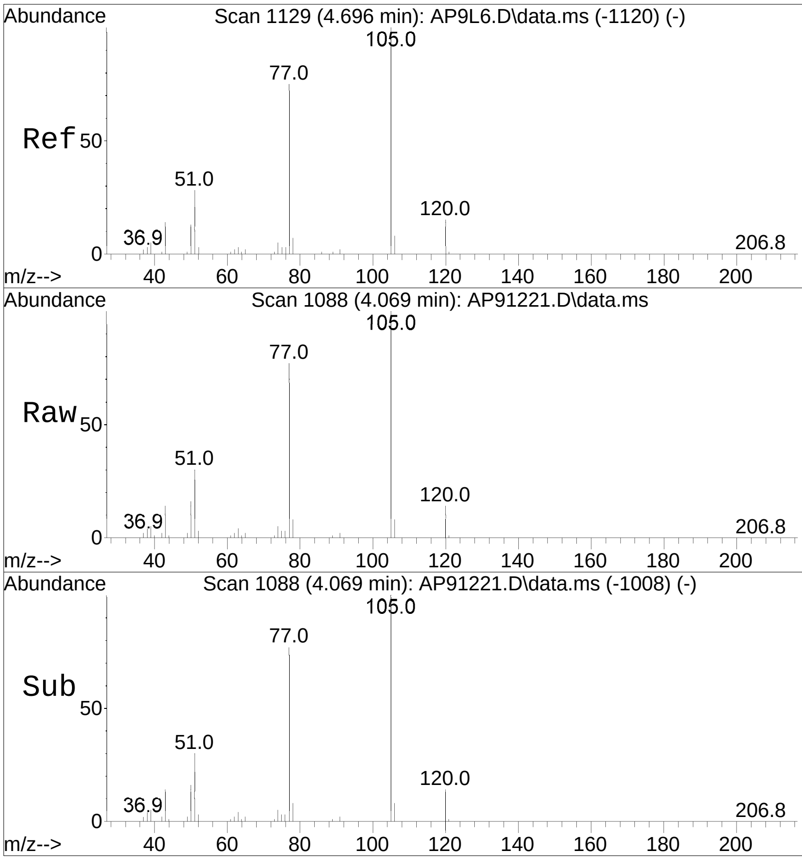





#28
Benzaldehyde
Concen: 5.67 ug/ml
RT: 3.167 min Scan# 798
Delta R.T. 0.000 min
Lab File: AP91221.D
Acq: 21 Dec 2024 6:50 am

Tgt Ion:105 Resp: 23025

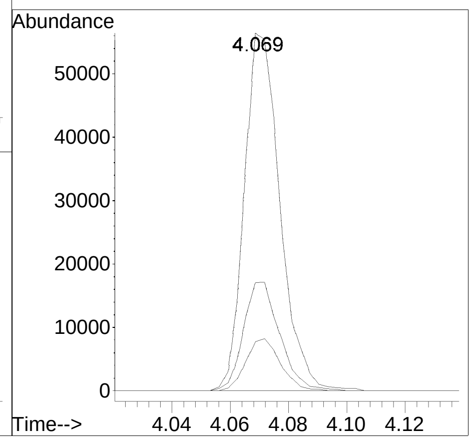
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 77 | 102.6 | 82.2 | 123.4 |

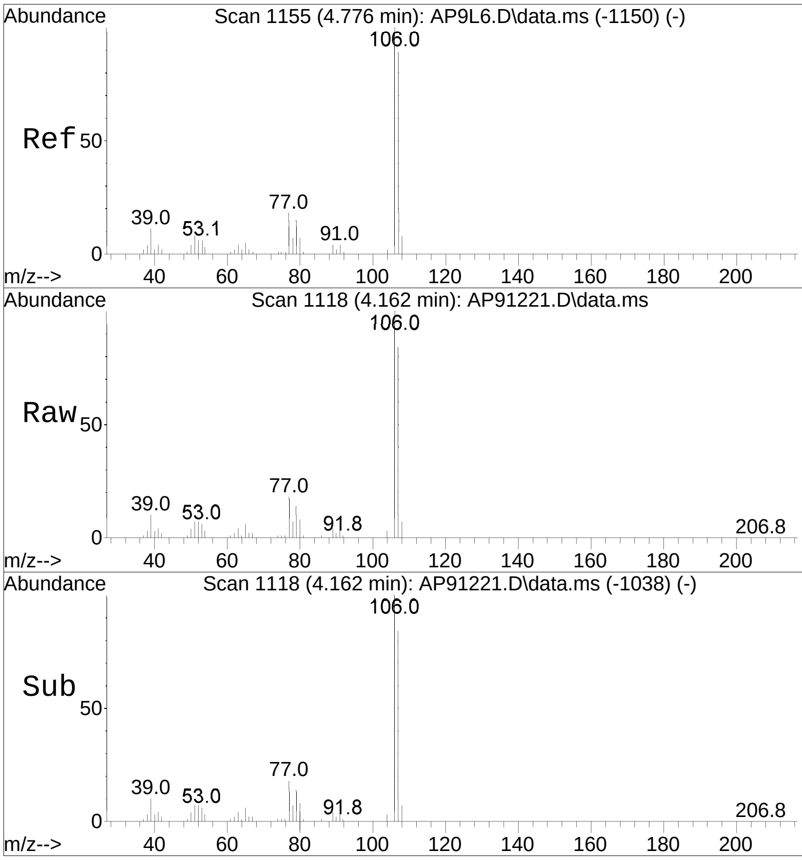



#29
Acetophenone
Concen: 5.91 ug/ml
RT: 4.069 min Scan# 1088
Delta R.T. 0.000 min
Lab File: AP91221.D
Acq: 21 Dec 2024 6:50 am

Tgt Ion:105 Resp: 47824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 14.0 | 20.5 | 30.7# |
| 51 | 30.8 | 34.9 | 52.3# |

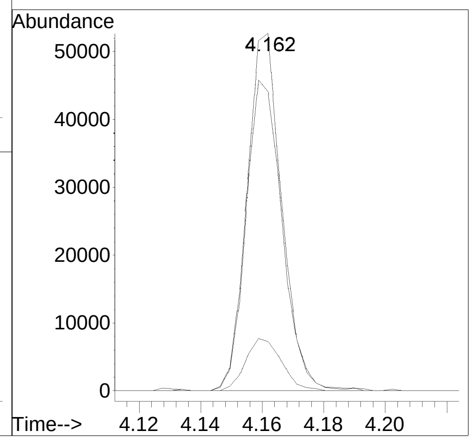


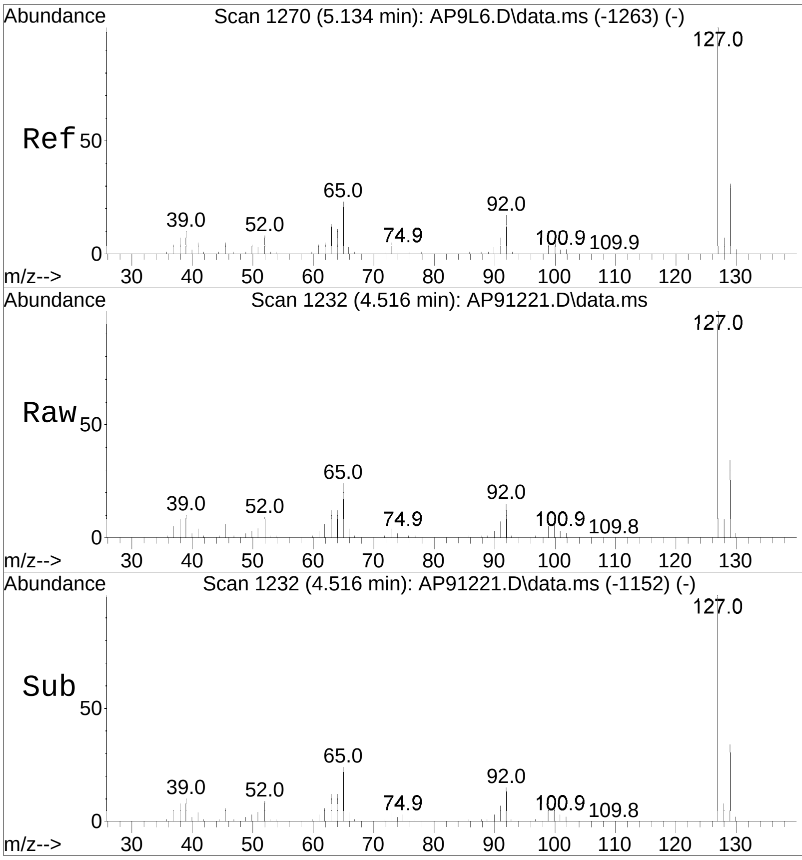



#30
m-Toluidine
Concen: 5.59 ug/ml
RT: 4.162 min Scan# 1118
Delta R.T. 0.000 min
Lab File: AP91221.D
Acq: 21 Dec 2024 6:50 am

Tgt Ion:106 Resp: 41490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 107 | 89.8 | 75.7 | 113.5 |
| 79 | 15.0 | 11.8 | 17.8 |

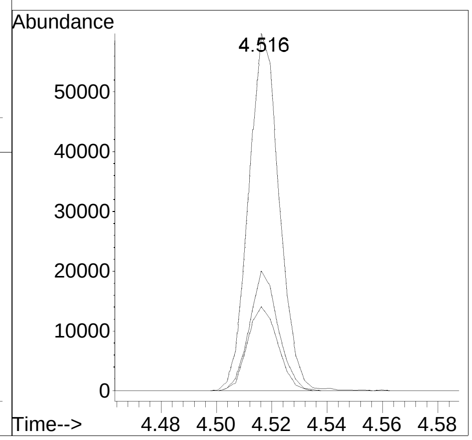


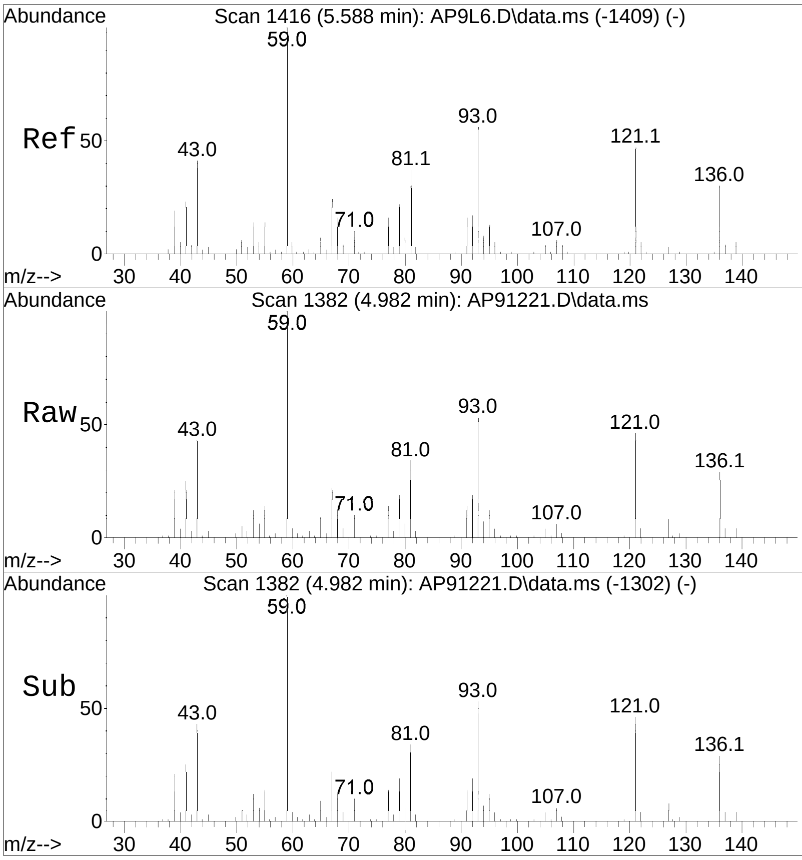



#31
2-Chloroaniline
Concen:    5.81 ug/ml
RT:   4.516 min  Scan# 1232
Delta R.T.  0.000 min
Lab File:   AP91221.D
Acq: 21 Dec 2024   6:50 am

Tgt Ion:127 Resp:   45872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 31.7 | 25.9 | 38.9 |
| 65 | 23.4 | 26.3 | 39.5# |

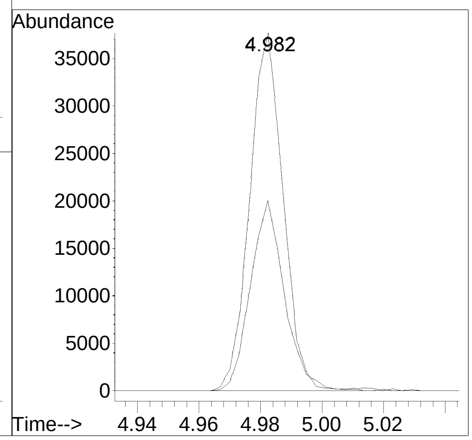


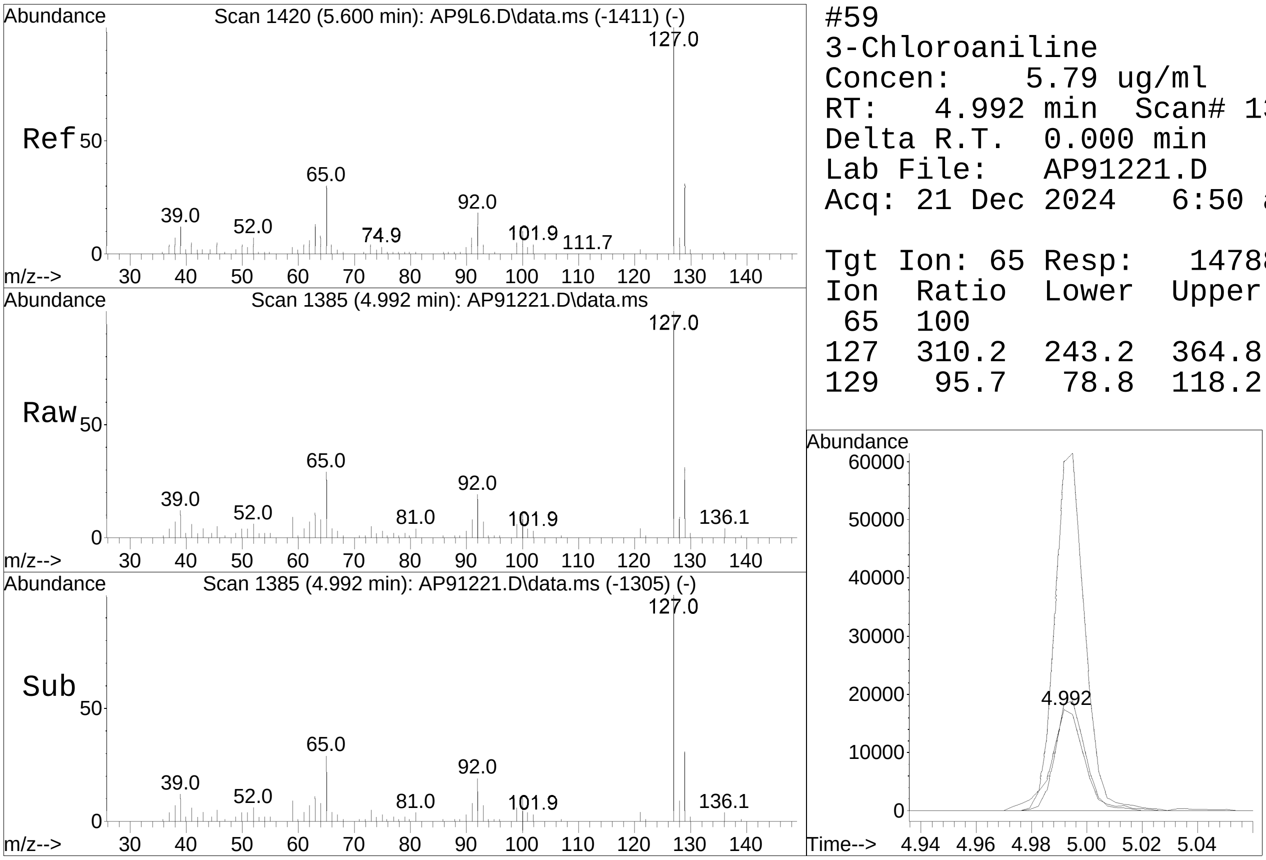



#58
a-Terpineol
Concen: 5.74 ug/ml
RT: 4.982 min Scan# 1382
Delta R.T. 0.000 min
Lab File: AP91221.D
Acq: 21 Dec 2024 6:50 am

Tgt Ion: 59 Resp: 28319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 93 | 54.4 | 35.6 | 53.4# |

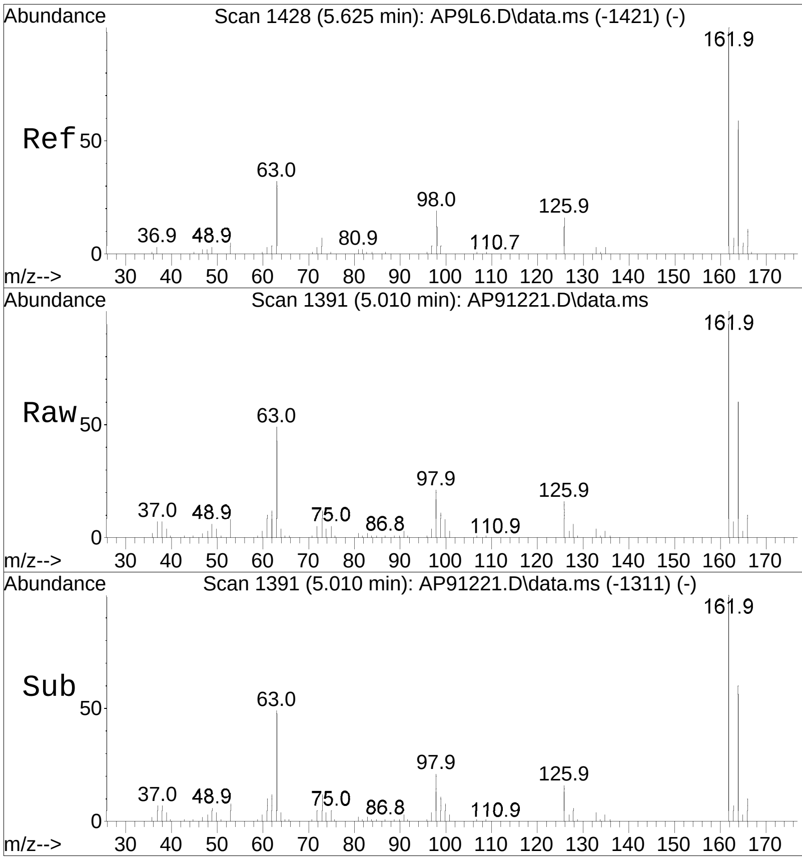





#59
3-Chloroaniline
Concen: 5.79 ug/ml
RT: 4.992 min Scan# 1385
Delta R.T. 0.000 min
Lab File: AP91221.D
Acq: 21 Dec 2024 6:50 am

Tgt Ion: 65 Resp: 14788

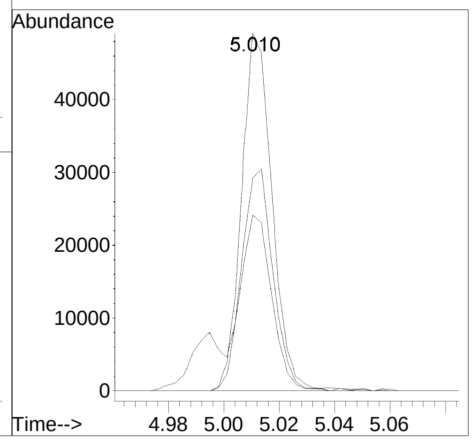
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 127 | 310.2 | 243.2 | 364.8 |
| 129 | 95.7 | 78.8 | 118.2 |

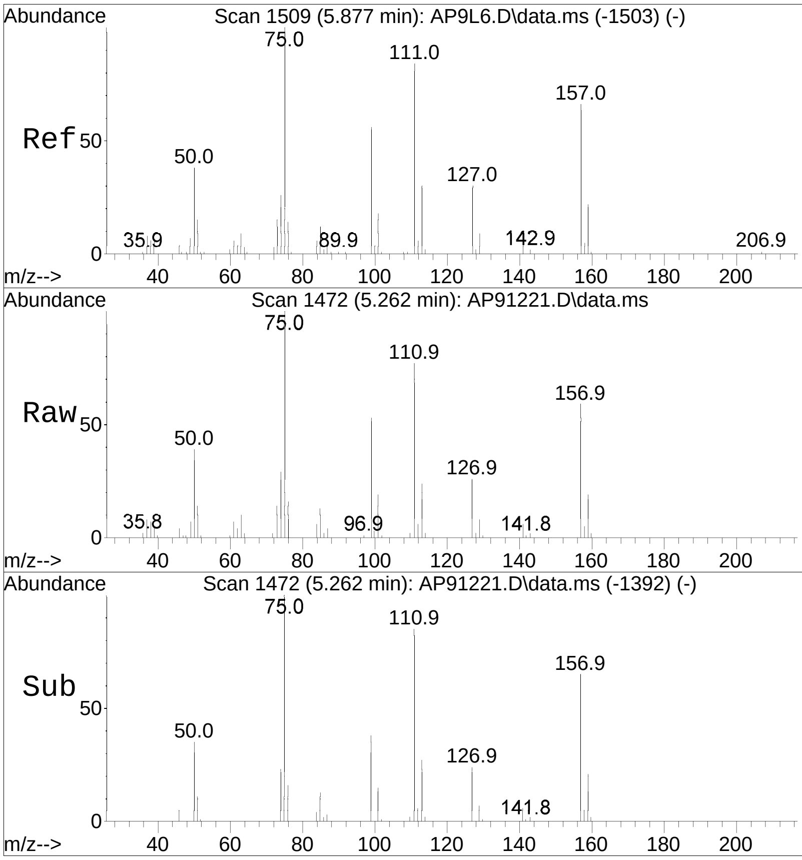



#60
2,6-Dichlorophenol
Concen: 5.72 ug/ml
RT: 5.010 min Scan# 1391
Delta R.T. 0.000 min
Lab File: AP91221.D
Acq: 21 Dec 2024 6:50 am

Tgt Ion:162 Resp: 37650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 63.7 | 51.1 | 76.7 |
| 63 | 49.8 | 60.8 | 91.2# |

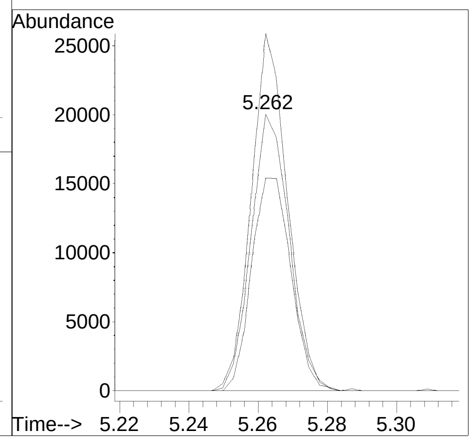


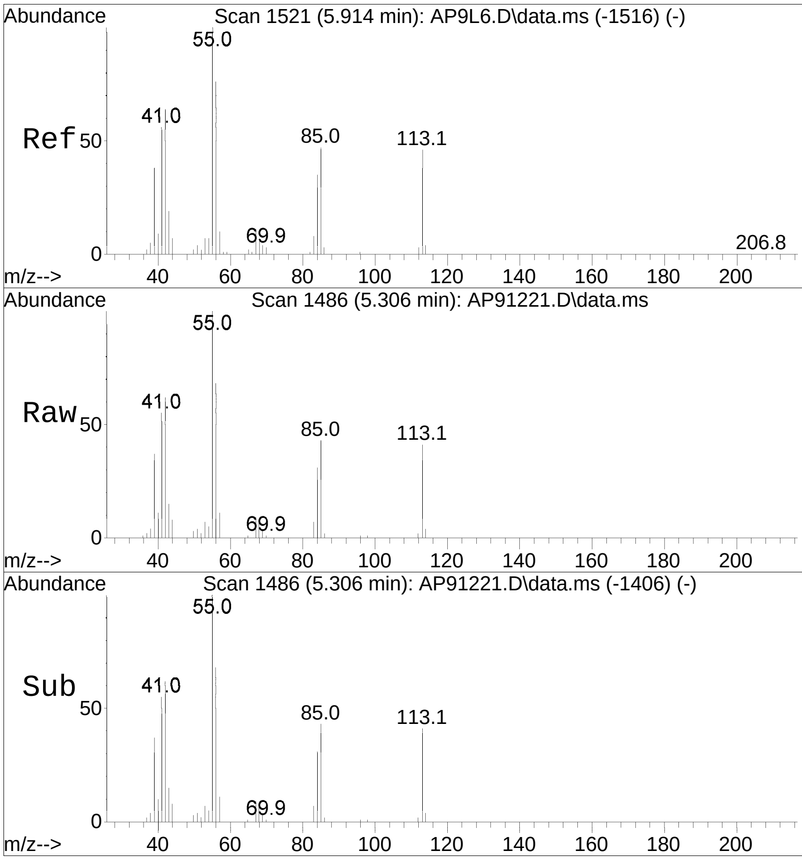



#61
1-chloro-2-nitrobenzene
Concen: 6.06 ug/ml
RT: 5.262 min Scan# 1472
Delta R.T. 0.000 min
Lab File: AP91221.D
Acq: 21 Dec 2024 6:50 am

Tgt Ion:111 Resp: 15318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 111 | 100 | | |
| 157 | 79.7 | 0.0 | 0.0# |
| 75 | 122.8 | 28.2 | 42.2# |

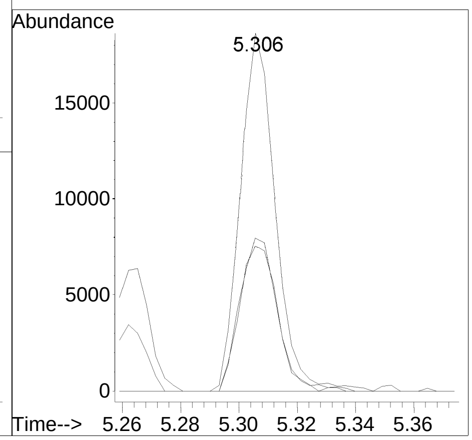


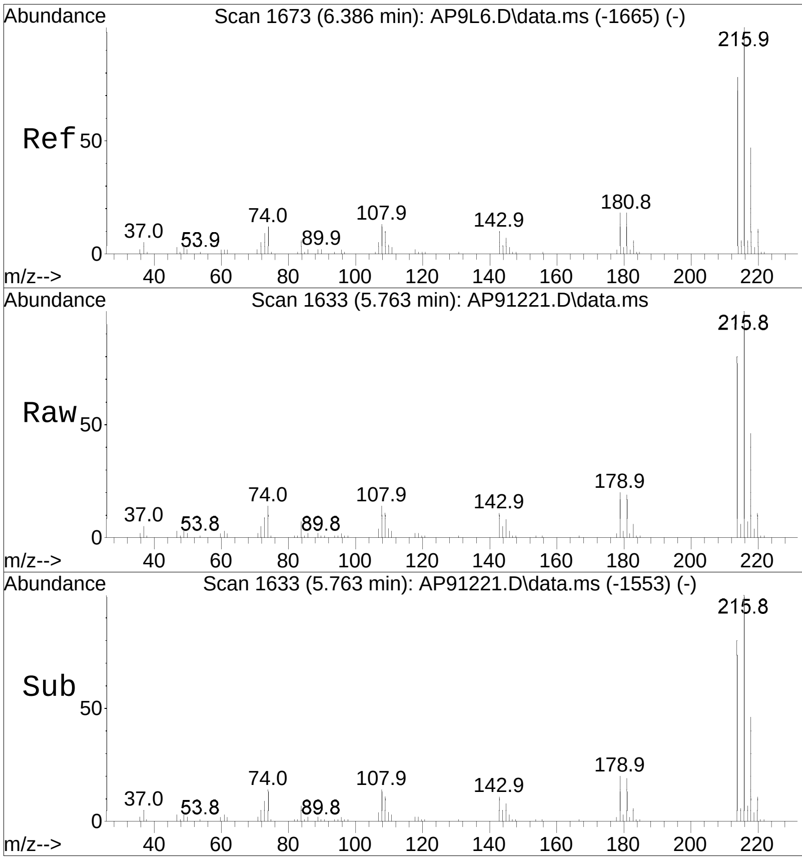



#62
Caprolactam
Concen: 5.67 ug/ml
RT: 5.306 min Scan# 1486
Delta R.T. 0.000 min
Lab File: AP91221.D
Acq: 21 Dec 2024 6:50 am

Tgt Ion: 55 Resp: 15525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 55 | 100 | | |
| 85 | 46.3 | 19.8 | 29.6# |
| 113 | 44.5 | 29.6 | 44.4# |

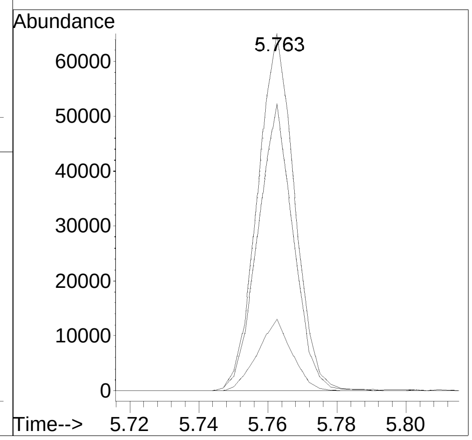


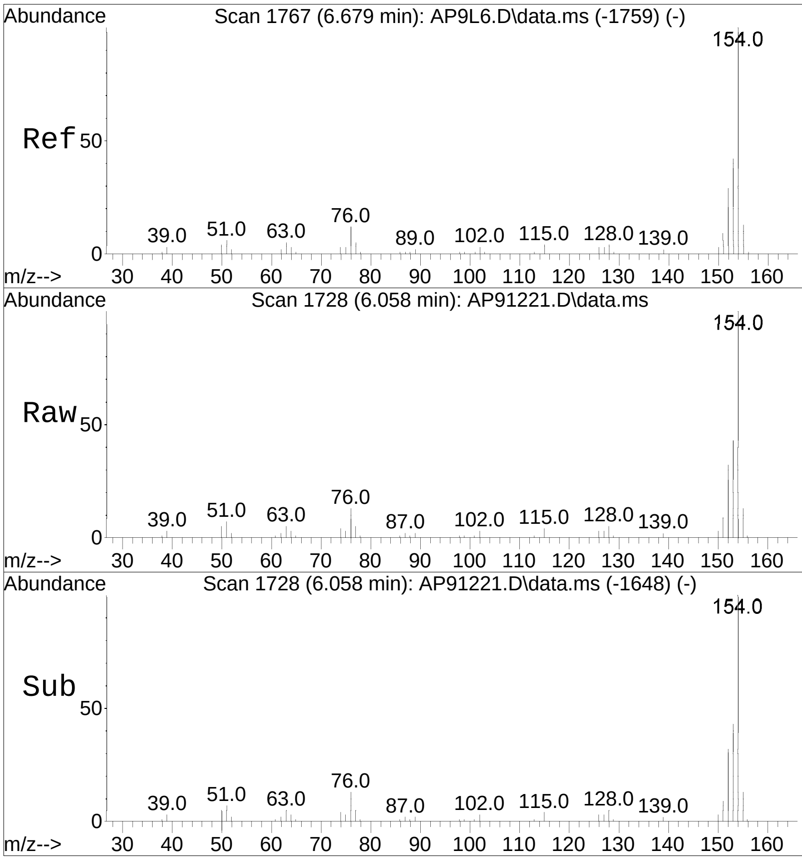



#63
1,2,4,5-Tetrachlorobenzene
Concen: 5.26 ug/ml
RT: 5.763 min Scan# 1633
Delta R.T. 0.000 min
Lab File: AP91221.D
Acq: 21 Dec 2024 6:50 am

Tgt Ion:216 Resp: 48450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 77.4 | 63.7 | 95.5 |
| 179 | 18.6 | 19.0 | 28.6# |

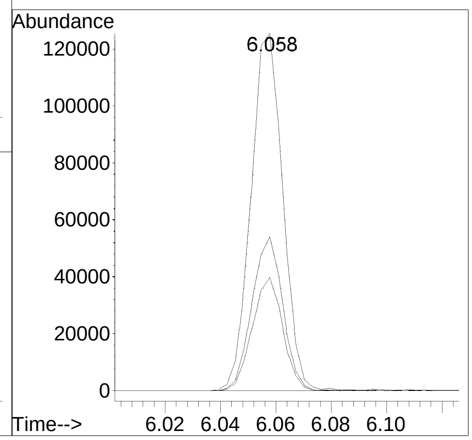


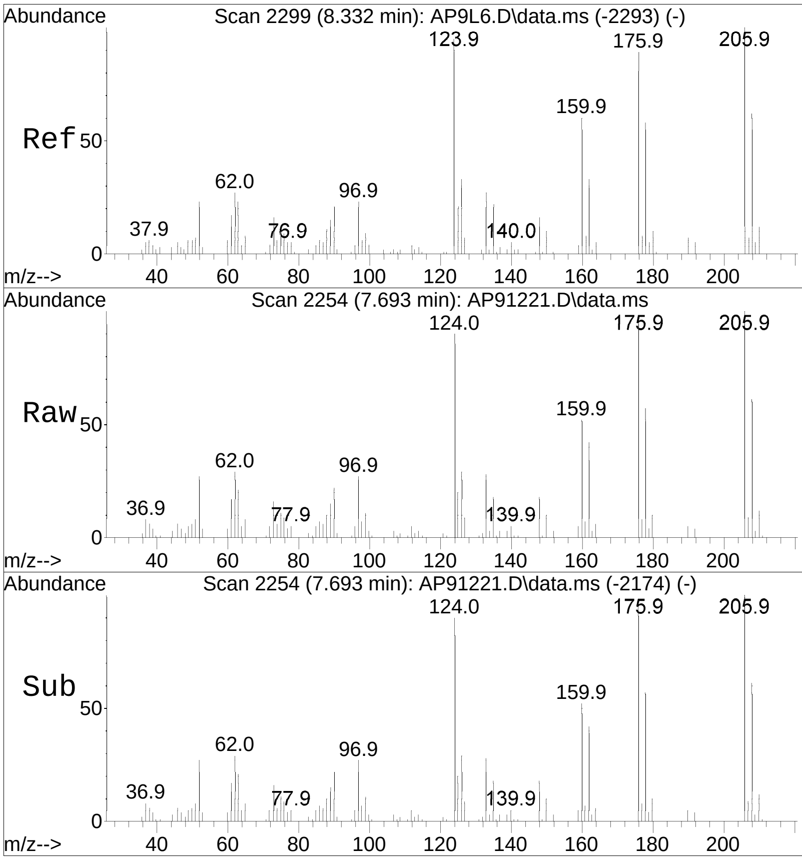



#64
Biphenyl
Concen: 5.32 ug/ml
RT: 6.058 min Scan# 1728
Delta R.T. 0.000 min
Lab File: AP91221.D
Acq: 21 Dec 2024 6:50 am

Tgt Ion:154 Resp: 99878

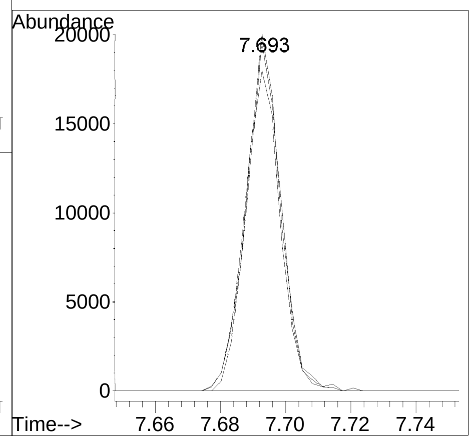
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 41.8 | 32.3 | 48.5 |
| 152 | 30.5 | 22.5 | 33.7 |

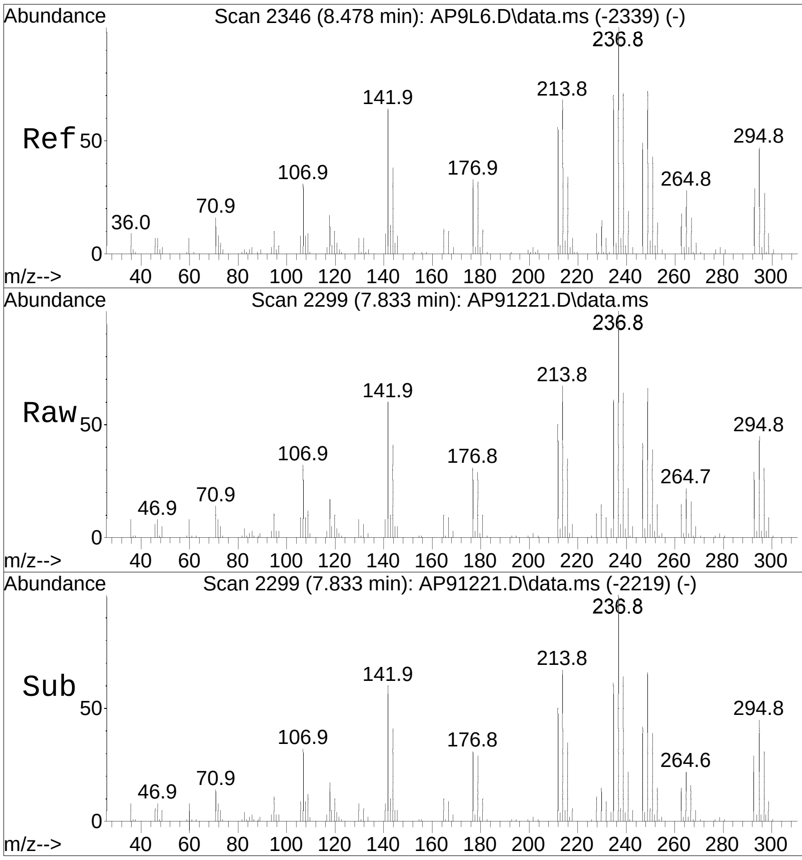





#86
Dichloran
Concen:    5.72 ug/ml
RT:   7.693 min  Scan# 2254
Delta R.T.  0.000 min
Lab File:   AP91221.D
Acq: 21 Dec 2024   6:50 am

| Tgt | Ion:206 | Resp: | 14499 |
|---|---|---|---|
| Ion | Ratio | Lower | Upper |
| 206 | 100 | | |
| 176 | 99.5 | 104.6 | 157.0# |
| 124 | 95.9 | 130.5 | 195.7# |

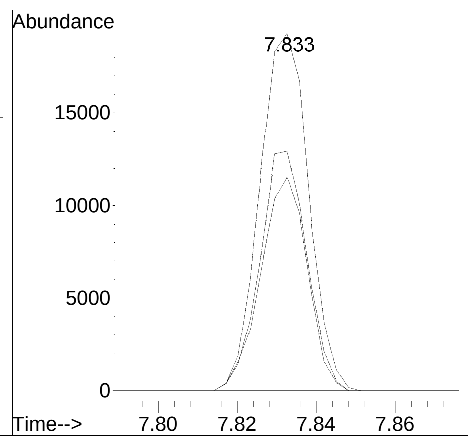


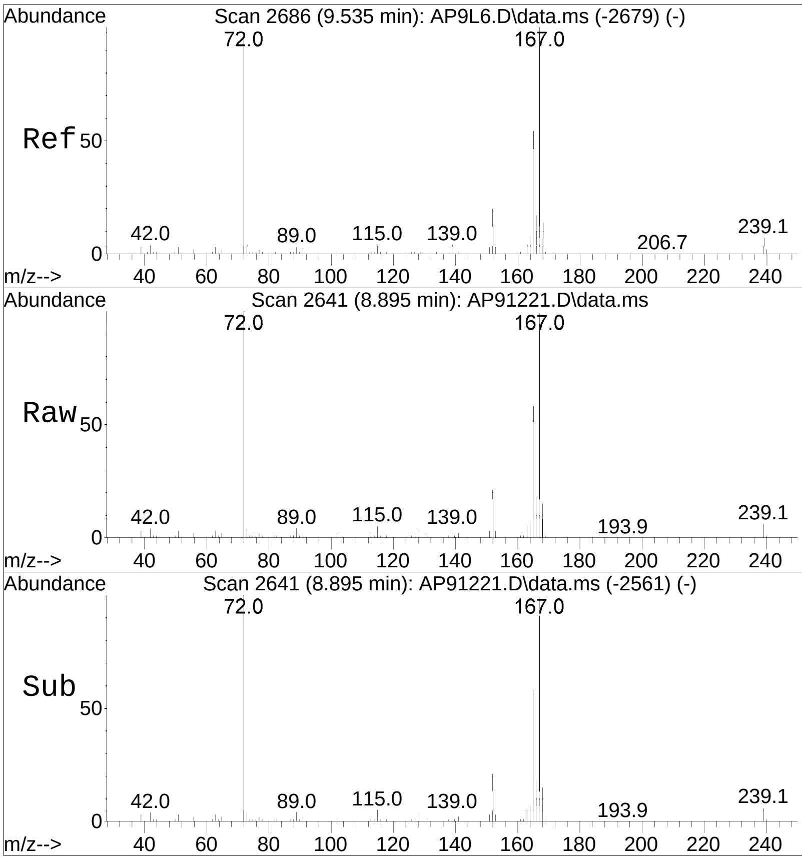



#87
Pentachloronitrobenzene
Concen: 5.93 ug/ml
RT: 7.833 min Scan# 2299
Delta R.T. 0.000 min
Lab File: AP91221.D
Acq: 21 Dec 2024 6:50 am

Tgt Ion:237 Resp: 16583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 142 | 57.1 | 77.0 | 115.4# |
| 214 | 64.6 | 58.2 | 87.4 |

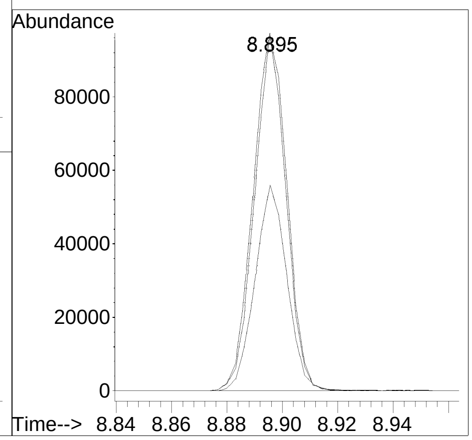





#101
Diphenamid
Concen: 5.38 ug/ml
RT: 8.895 min Scan# 2641
Delta R.T. 0.000 min
Lab File: AP91221.D
Acq: 21 Dec 2024 6:50 am

Tgt Ion:167 Resp: 78571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 72 | 101.1 | 109.7 | 164.5# |
| 165 | 56.9 | 41.8 | 62.6 |



Manual Integration Report

```
Data Path   : I:\8270\Dakota\241221RVT\ QMethod     : FS241105RVT_Dakota.m
Data File   : AP91221.D                 Operator    : Dakota:smz
Date Inj'd  : 12/21/2024  6:50 am       Instrument  : Dakota
Sample      : wg2012119-4,32,,AP9 11152 Quant Date  : 12/21/2024  7:33 am
```

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241221RVT\
Data File : ADP1221.D
Acq On : 21 Dec 2024 7:12 am
Operator : Dakota:smz
Sample : wg2012119-5,32,,ADP 11153 HNY1205B
Misc : wg2012119,,ical21680
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Dec 21 07:33:30 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:07 2024
Response via : Initial Calibration

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

| | | Compound | | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|---|
| 32 | I | IS3_1,4-Dichlorobenzene-d4 | | 1.000 | 1.000 | 0.0 | 81 | 0.00 |
| 33 | T | 1,4-Dioxane | | 0.381 | 0.437 | -14.7 | 88 | 0.00 |
| 35 | T | n-Decane | | 1.048 | 1.037 | 1.0 | 77 | 0.00 |
| 88 | I | IS3_Acenaphthene-d10 | | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 89 | T | Atrazine | | 0.343 | 0.335 | 2.3 | 90 | 0.00 |
| 102 | I | IS3_Phenanthrene-d10 | | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 103 | T | n-Octadecane | | 0.334 | 0.333 | 0.3 | 100 | 0.00 |
| 104 | T | Parathion | * | 5.000 | 5.132 | -2.6 | 115 | 0.00 |
| 105 | T | 3,3'-Dimethylbenzidine | | 0.728 | 0.673 | 7.6 | 103 | 0.00 |

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241221RVT\
Data File : ADP1221.D
Acq On : 21 Dec 2024 7:12 am
Operator : Dakota:smz
Sample : wg2012119-5,32,,ADP 11153 HNY1205B
Misc : wg2012119,,ical21680
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Dec 21 07:33:30 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:07 2024
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... | 3.630 | 152 | 21890 | 4.000 | ug/ml | 0.00 |
| 88) IS3_Acenaphthene-d10 | 6.571 | 164 | 55641 | 4.000 | ug/ml | 0.00 |
| 102) IS3_Phenanthrene-d10 | 7.963 | 188 | 132823 | 4.000 | ug/ml | 0.00 |
| System Monitoring Compounds | | | | | | |
| Target Compounds | | | | | | Qvalue |
| 33) 1,4-Dioxane | 0.889 | 88 | 11949 | 5.732 | ug/ml# | 93 |
| 35) n-Decane | 3.559 | 57 | 28368 | 4.945 | ug/ml# | 27 |
| 89) Atrazine | 7.808 | 200 | 23315 | 4.885 | ug/ml# | 89 |
| 103) n-Octadecane | 8.031 | 57 | 55335 | 4.994 | ug/ml# | 1 |
| 104) Parathion | 8.787 | 109 | 14230 | 5.132 | ug/ml | 91 |
| 105) 3,3'-Dimethylbenzidine | 9.996 | 212 | 111669 | 4.619 | ug/ml | 98 |

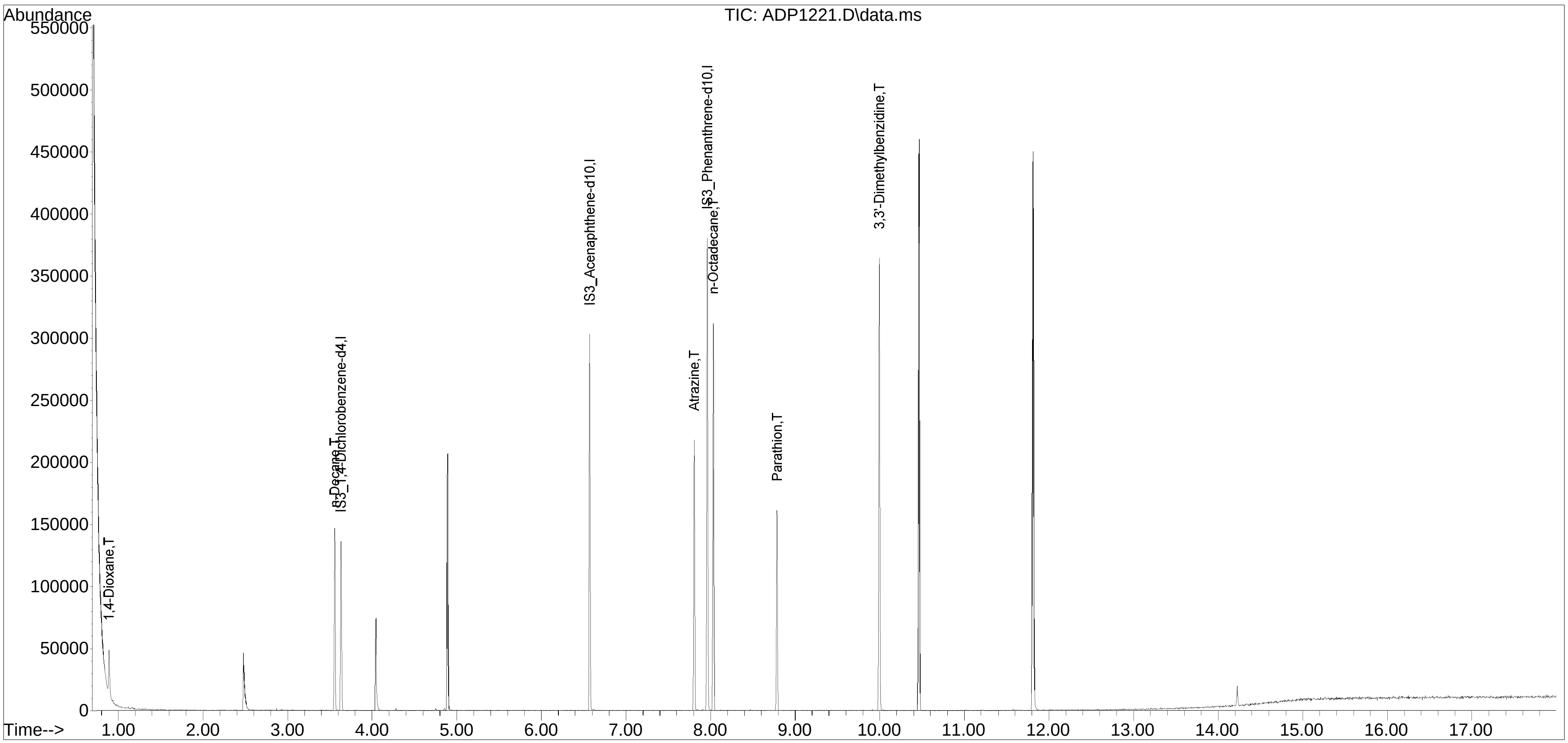
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

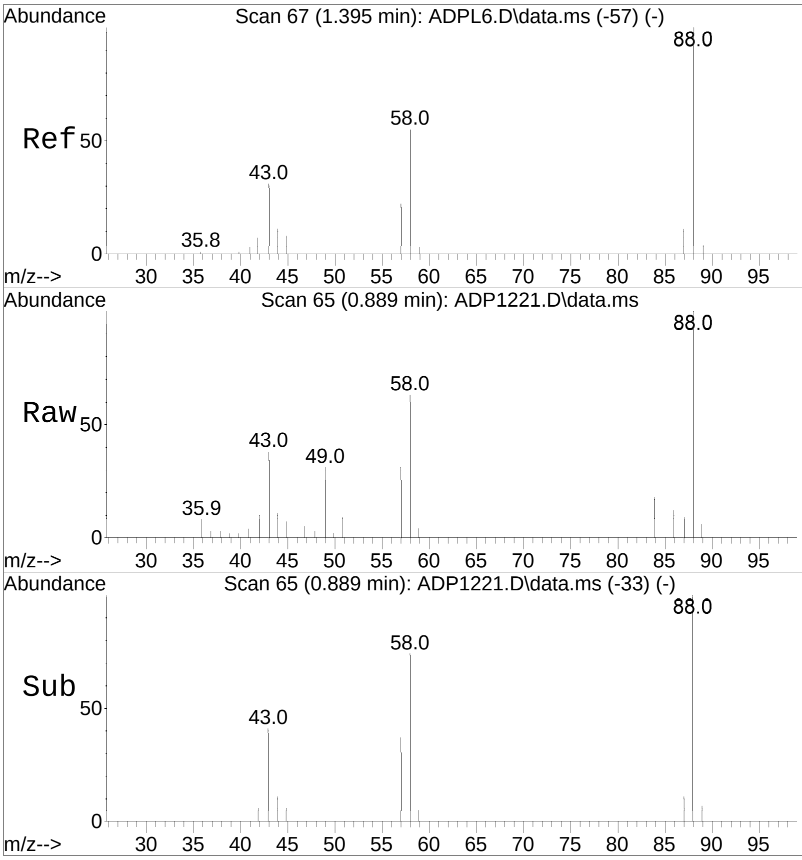
Data Path : I:\8270\Dakota\241221RVT\
Data File : ADP1221.D
Acq On    : 21 Dec 2024   7:12 am
Operator  : Dakota:smz
Sample    : wg2012119-5,32,,ADP 11153 HNY1205B
Misc      : wg2012119,,ical21680
ALS Vial  : 98   Sample Multiplier: 1

Quant Time: Dec 21 07:33:30 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:07 2024
Response via : Initial Calibration

Sub List     : ADPical_REV2 - ADP sublist



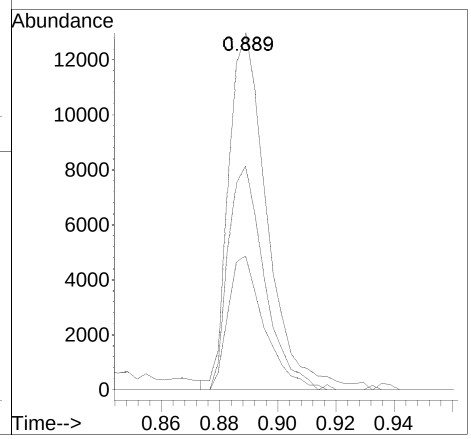

FS241105RVT_Dakota.m Mon Dec 23 08:45:01 2024    Page: 2

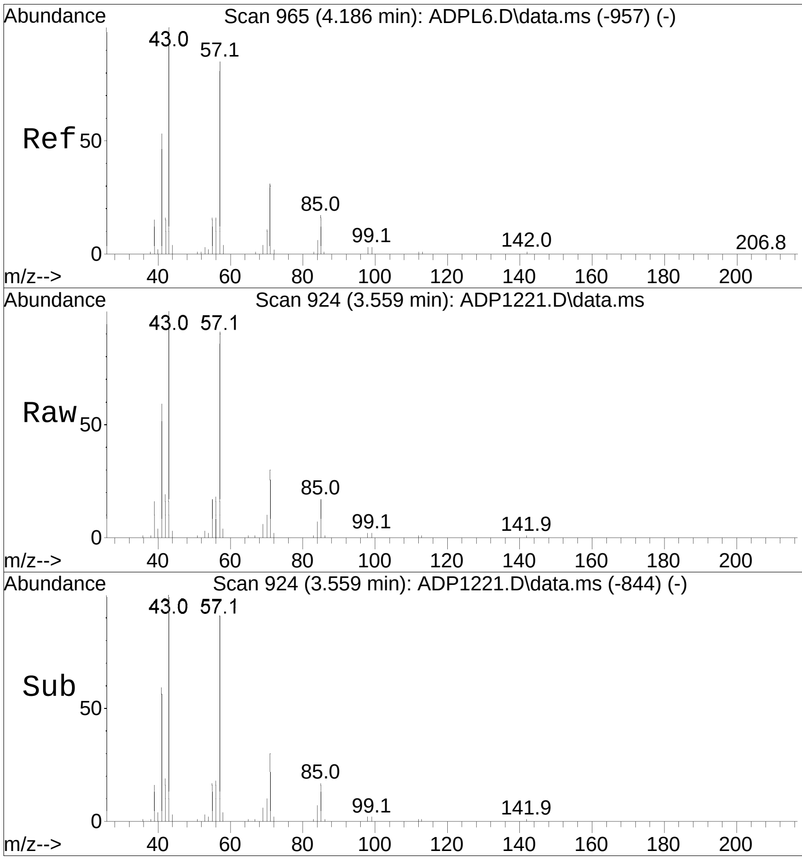



#33
1,4-Dioxane
Concen: 5.73 ug/ml
RT: 0.889 min Scan# 65
Delta R.T. 0.000 min
Lab File: ADP1221.D
Acq: 21 Dec 2024 7:12 am

Tgt Ion: 88 Resp: 11949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 59.2 | 44.8 | 67.2 |
| 43 | 35.2 | 22.4 | 33.6# |

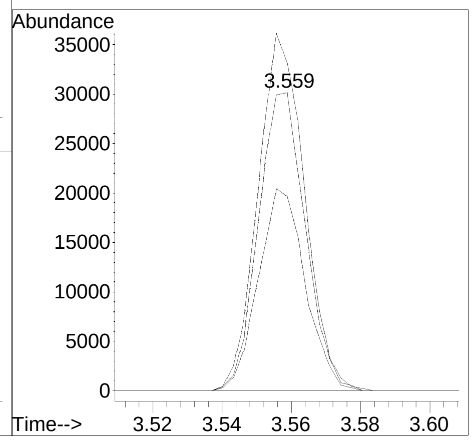


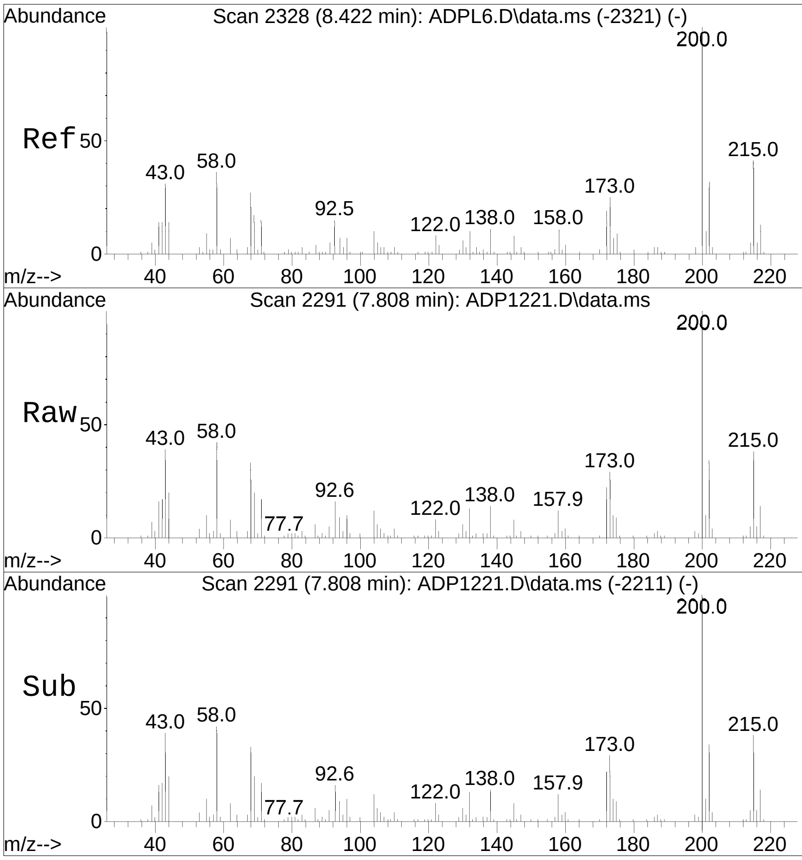



#35
n-Decane
Concen: 4.94 ug/ml
RT: 3.559 min Scan# 924
Delta R.T. 0.000 min
Lab File: ADP1221.D
Acq: 21 Dec 2024 7:12 am

Tgt Ion: 57 Resp: 28368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 43 | 118.6 | 0.2 | 0.2# |
| 41 | 67.6 | 0.2 | 0.2# |

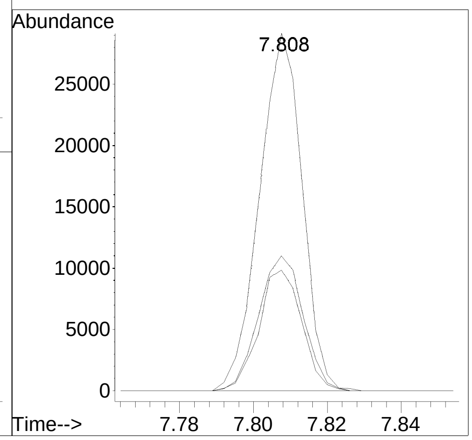


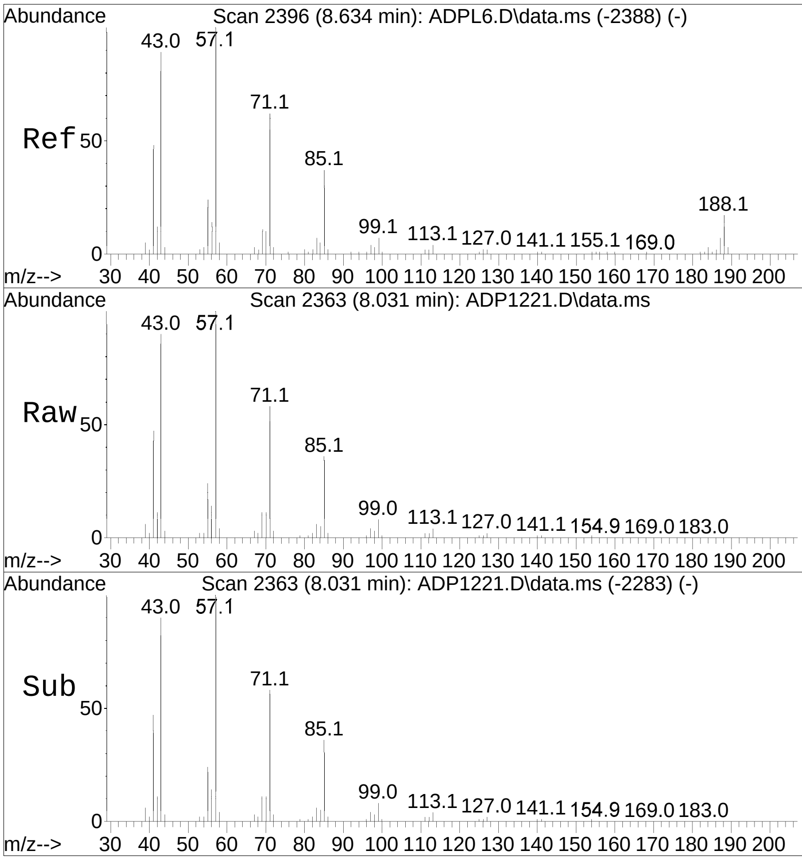



#89
Atrazine
Concen: 4.89 ug/ml
RT: 7.808 min Scan# 2291
Delta R.T. 0.000 min
Lab File: ADP1221.D
Acq: 21 Dec 2024 7:12 am

Tgt Ion:200 Resp: 23315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 202 | 34.0 | 25.8 | 38.6 |
| 215 | 39.5 | 40.2 | 60.4# |

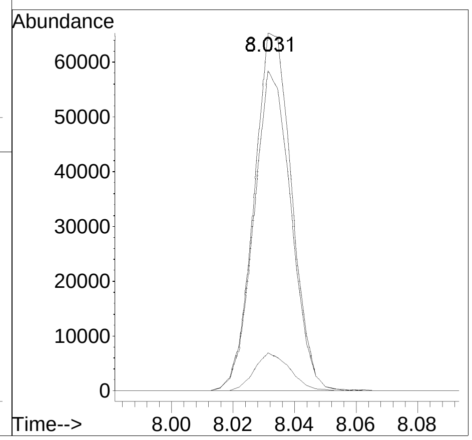


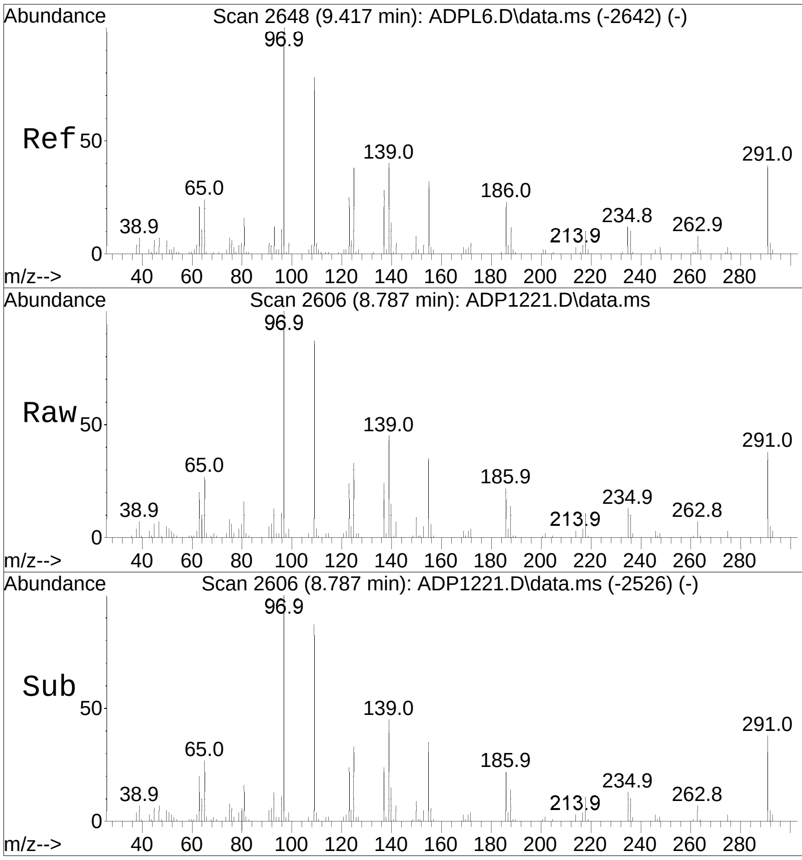



#103
n-Octadecane
Concen: 4.99 ug/ml
RT: 8.031 min Scan# 2363
Delta R.T. 0.000 min
Lab File: ADP1221.D
Acq: 21 Dec 2024 7:12 am

Tgt Ion: 57 Resp: 55335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 43 | 88.4 | 9.0 | 13.6# |
| 70 | 9.9 | 0.2 | 0.2# |

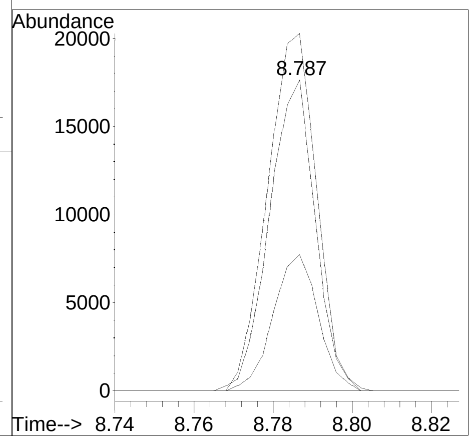


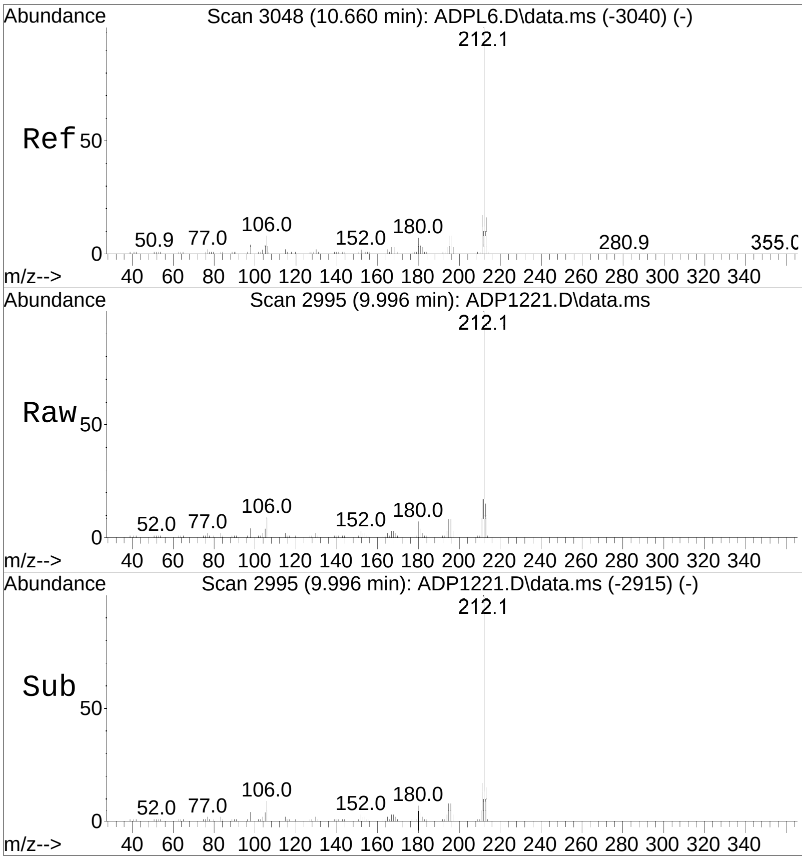



#104
Parathion
Concen: 5.13 ug/ml
RT: 8.787 min Scan# 2606
Delta R.T. 0.000 min
Lab File: ADP1221.D
Acq: 21 Dec 2024 7:12 am

Tgt Ion:109 Resp: 14230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 109 | 100 | | |
| 97 | 122.5 | 87.4 | 131.2 |
| 291 | 43.1 | 34.2 | 51.2 |

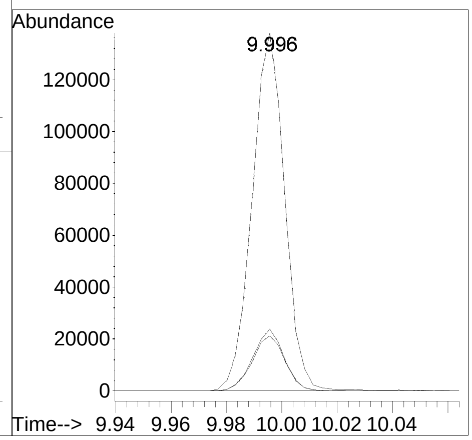





#105
3,3'-Dimethylbenzidine
Concen: 4.62 ug/ml
RT: 9.996 min Scan# 2995
Delta R.T. 0.000 min
Lab File: ADP1221.D
Acq: 21 Dec 2024 7:12 am

Tgt Ion:212 Resp: 111669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 211 | 16.8 | 12.9 | 19.3 |
| 213 | 15.6 | 13.2 | 19.8 |



Manual Integration Report

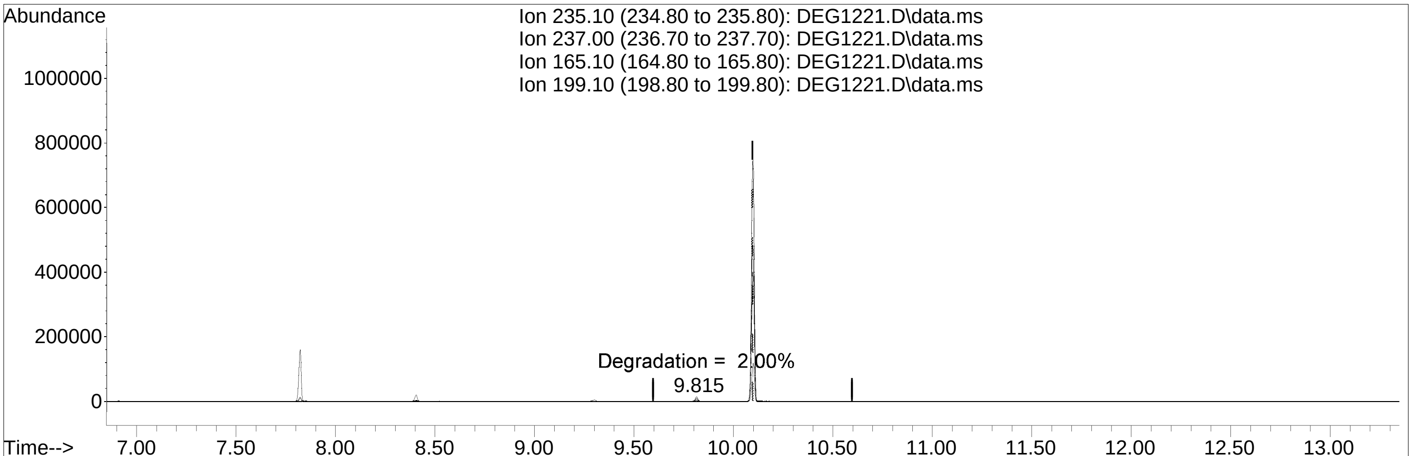
```
Data Path   : I:\8270\Dakota\241221RVT\ QMethod     : FS241105RVT_Dakota.m
Data File   : ADP1221.D                 Operator    : Dakota:smz
Date Inj'd  : 12/21/2024  7:12 am       Instrument  : Dakota
Sample      : wg2012119-5,32,,ADP 11153 Quant Date  : 12/21/2024  7:34 am
```

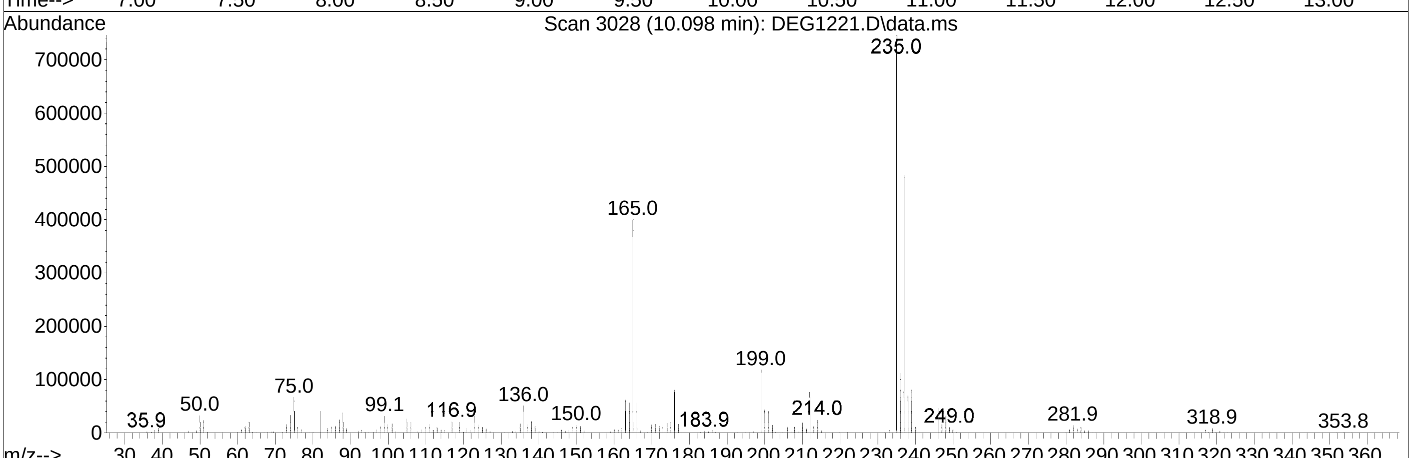
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\241221RVT\
Data File : DEG1221.D
Acq On : 21 Dec 2024 6:04 am
Operator : Dakota:smz
Sample : wg2012119-2,32,,Degdftpp Lot # 11210
Misc : wg2012119,,ical21680
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Dec 21 06:37:14 2024
Quant Method : I:\8270\Dakota\241221RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 21:52:14 2024
Response via : Initial Calibration




CHROMtools™ [wg2012119-2,32,,Degdftpp Lot # 11210]

(6) DDT (T)

10.098min (+ 0.000) 116.62

response 710895

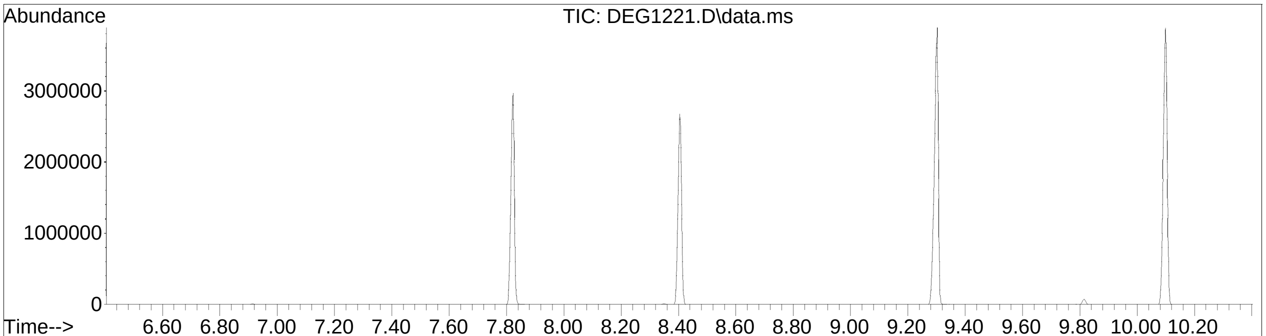
| Ion | Exp% | Act% |
|---|---|---|
| 235.10 | 100.00 | 100.00 |
| 237.00 | 63.90 | 64.45 |
| 165.10 | 48.70 | 51.86 |
| 199.10 | 15.80 | 15.19 |

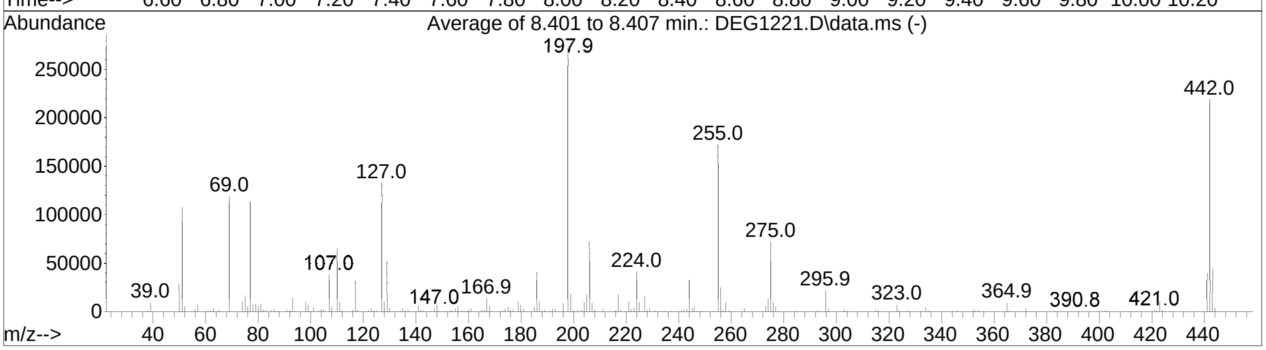
DFTPP

Data Path : I:\8270\Dakota\241221RVT\
Data File : DEG1221.D
Acq On : 21 Dec 2024 6:04 am
Operator : Dakota:gmr
Sample : WG2012119-1,32,,Degdftpp Lot # 11210
Misc : WG2012119,,ical21680
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Sat Dec 21 07:34:06 2024



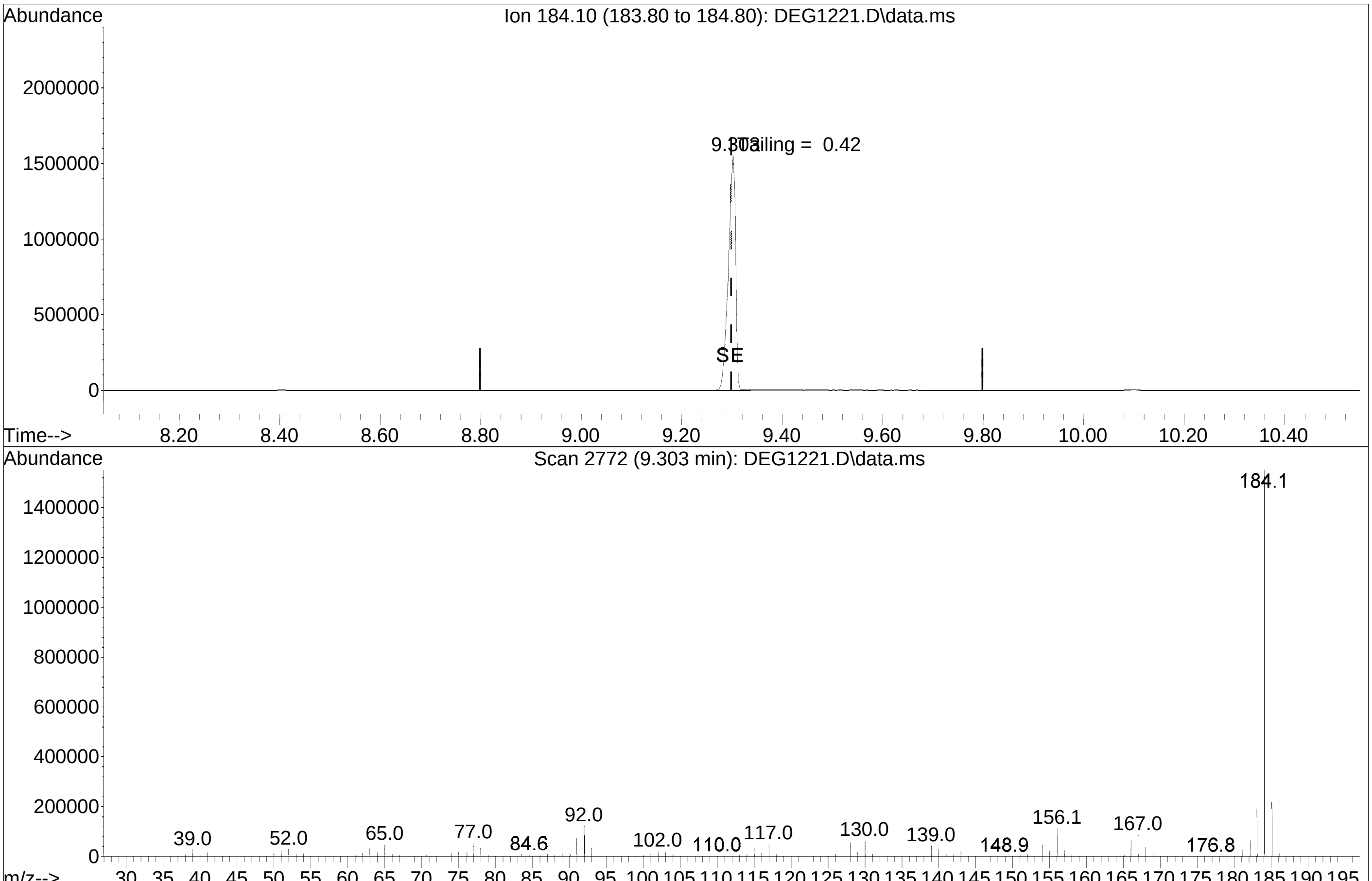

Spectrum Information: Average of 8.401 to 8.407 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 39.5 | 107669 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 69 | 69 | 100 | 100 | 100.0 | 119256 | PASS |
| 70 | 69 | 0.00 | 2 | 0.4 | 515 | PASS |
| 127 | 198 | 10 | 80 | 48.7 | 132624 | PASS |
| 197 | 198 | 0.00 | 2 | 0.3 | 824 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 272256 | PASS |
| 199 | 198 | 5 | 9 | 6.6 | 18024 | PASS |
| 275 | 198 | 10 | 60 | 26.5 | 72109 | PASS |
| 365 | 198 | 1 | 100 | 3.5 | 9595 | PASS |
| 441 | 442 | 0.01 | 24 | 18.1 | 39552 | PASS |
| 442 | 198 | 50 | 100 | 80.4 | 218795 | PASS |
| 443 | 442 | 15 | 24 | 20.4 | 44667 | PASS |

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\241221RVT\
Data File : DEG1221.D
Acq On : 21 Dec 2024 6:04 am
Operator : Dakota:smz
Sample : wg2012119-6,32,,Degdftpp Lot # 11210
Misc : wg2012119,,ical21680
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Dec 21 06:37:14 2024
Quant Method : I:\8270\Dakota\241221RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 21:52:14 2024
Response via : Initial Calibration




CHROMtools [wg2012119-6,32,,Degdftpp Lot # 11210]

(3) Benzidine (T)

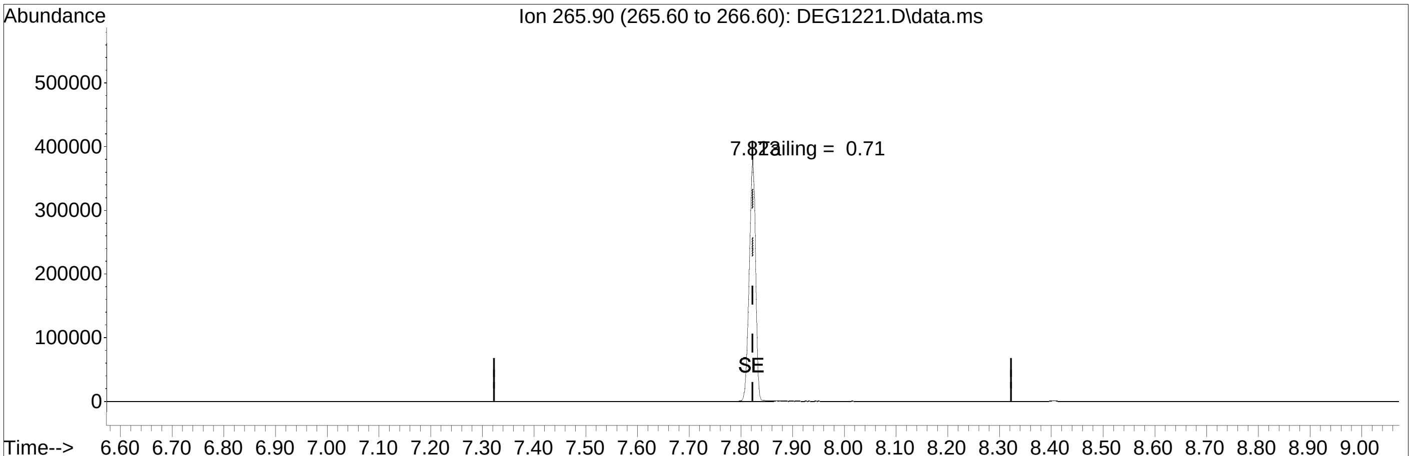
9.303min (+ 0.004) 147.60

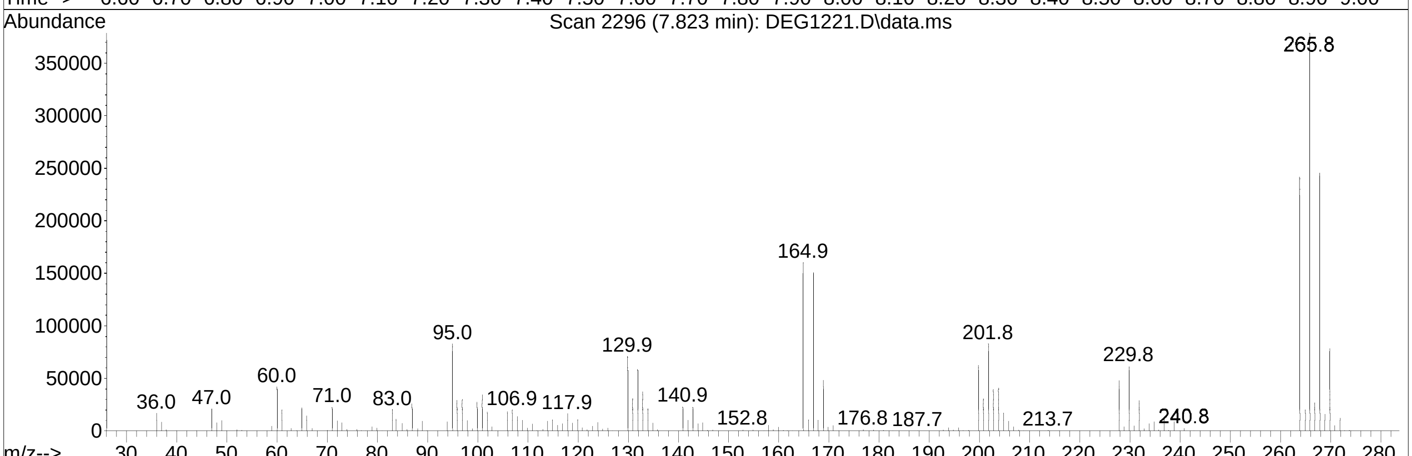
response 1502592

| 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\241221RVT\
Data File : DEG1221.D
Acq On    : 21 Dec 2024   6:04 am
Operator  : Dakota:smz
Sample    : wg2012119-7,32,,Degdftpp Lot # 11210
Misc      : wg2012119,,ical21680
ALS Vial  : 100   Sample Multiplier: 1

Quant Time: Dec 21 06:37:14 2024
Quant Method : I:\8270\Dakota\241221RVT\DftppDakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 21:52:14 2024
Response via : Initial Calibration
```




CHROMtools™ [wg2012119-7,32,,Degdftpp Lot # 11210]

(1) Pentachlorophenol (T)

7.823min (+ 0.000) 150.68

response 316472

| 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\Dakota\241221RVT\
Data File : 012045-1.D
Acq On    : 21 Dec 2024  10:03 am
Operator  : Dakota:smz
Sample    : WG2012045-1,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Dec 23 08:50:21 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
             : 2 - I:\8270\Dakota\241221RVT\ADP1221.D
             : 3 - I:\8270\Dakota\241221RVT\AP91221.D
Sub List     : 8270TCL_REV2 - TCL/CT/MA

       Compound                    R.T. QIon  Response  Conc Units Dev(Min)
--------------------------------------------------------------------------
 Internal Standards
 1) IS1_1,4-Dichlorobenzen...   3.630  152     23069     4.000 ug/ml    0.00
    Standard Area 1 = 22385                Recovery   =  103.06%
27) IS2_1,4-Dichlorobenzen...   3.630  152     23069     4.000 ug/ml    0.00
    Standard Area 3 = 23078                Recovery   =   99.96%
32) IS3_1,4-Dichlorobenzen...   3.630  152     23069     4.000 ug/ml    0.00
    Standard Area 2 = 21890                Recovery   =  105.39%
37) IS1_Naphthalene-d8          4.892  136     82861     4.000 ug/ml  # 0.00
    Standard Area 1 = 89532                Recovery   =   92.55%
57) IS2_Naphthalene-d8          4.892  136     82861     4.000 ug/ml  # 0.00
    Standard Area 3 = 89152                Recovery   =   92.94%
65) IS1_Acenaphthene-d10        6.570  164     57023     4.000 ug/ml    0.00
    Standard Area 1 = 62636                Recovery   =   91.04%
85) IS2_Acenaphthene-d10        6.570  164     57023     4.000 ug/ml    0.00
    Standard Area 3 = 59962                Recovery   =   95.10%
88) IS3_Acenaphthene-d10        6.570  164     57023     4.000 ug/ml    0.00
    Standard Area 2 = 55641                Recovery   =  102.48%
90) IS1_Phenanthrene-d10        7.963  188    134511     4.000 ug/ml    0.00
    Standard Area 1 = 138966                Recovery   =   96.79%
102) IS3_Phenanthrene-d10       7.963  188    134511     4.000 ug/ml    0.00
    Standard Area 2 = 132823                Recovery   =  101.27%
106) IS1_Chrysene-d12          10.462  240    155986     4.000 ug/ml    0.00
    Standard Area 1 = 162401                Recovery   =   96.05%
115) IS1_Perylene-d12          11.811  264    183803     4.000 ug/ml    0.00
    Standard Area 1 = 195179                Recovery   =   94.17%

 System Monitoring Compounds
 4) 2-Fluorophenol              2.219  112      5720     0.964 ug/ml   0.00
    Spiked Amount      2.000   Range  15 - 110    Recovery   =   48.20%
 7) Phenol-d6                   3.360   99      4955     0.652 ug/ml   0.00
    Spiked Amount      2.000   Range  15 - 110    Recovery   =   32.60%
19) Nitrobenzene-d5             4.208   82      4938     0.716 ug/ml   0.00
    Spiked Amount      1.000   Range  30 - 130    Recovery   =   71.60%
48) 2-Fluorobiphenyl            5.974  172     13851     0.675 ug/ml   0.00
    Spiked Amount      1.000   Range  30 - 130    Recovery   =   67.50%
81) 2,4,6-Tribromophenol        7.323  330      6398     1.570 ug/ml   0.00
    Spiked Amount      2.000   Range  15 - 110    Recovery   =   78.50%
```

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270\Dakota\241221RVT\
Data File : 012045-1.D
Acq On    : 21 Dec 2024  10:03 am
Operator  : Dakota:smz
Sample    : WG2012045-1,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Dec 23 08:50:21 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
             : 2 - I:\8270\Dakota\241221RVT\ADP1221.D
             : 3 - I:\8270\Dakota\241221RVT\AP91221.D
Sub List     : 8270TCL_REV2 - TCL/CT/MA

        Compound                     R.T. QIon  Response  Conc Units Dev(Min)
  ---------------------------------------------------------------------------
98) 4-Terphenyl-d14               9.532  244     29720     0.764 ug/ml   0.00

   Spiked Amount      1.000   Range  30 - 130    Recovery   =   76.40%
 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.
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241221RVT\
Data File : 012045-1.D
Acq On : 21 Dec 2024 10:03 am
Operator : Dakota:smz
Sample : WG2012045-1,32,,gmr
Misc : WG2012119,WG2012045,ical21680
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 23 08:50:21 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
: 2 - I:\8270\Dakota\241221RVT\ADP1221.D
: 3 - I:\8270\Dakota\241221RVT\AP91221.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 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. | |
| 89) Atrazine | 0.000 | | 0 | | N.D. | |
| 93) Carbazole | 0.000 | | 0 | | N.D. | |
| 94) Di-n-butylphthalate | 0.000 | | 0 | | N.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. | |

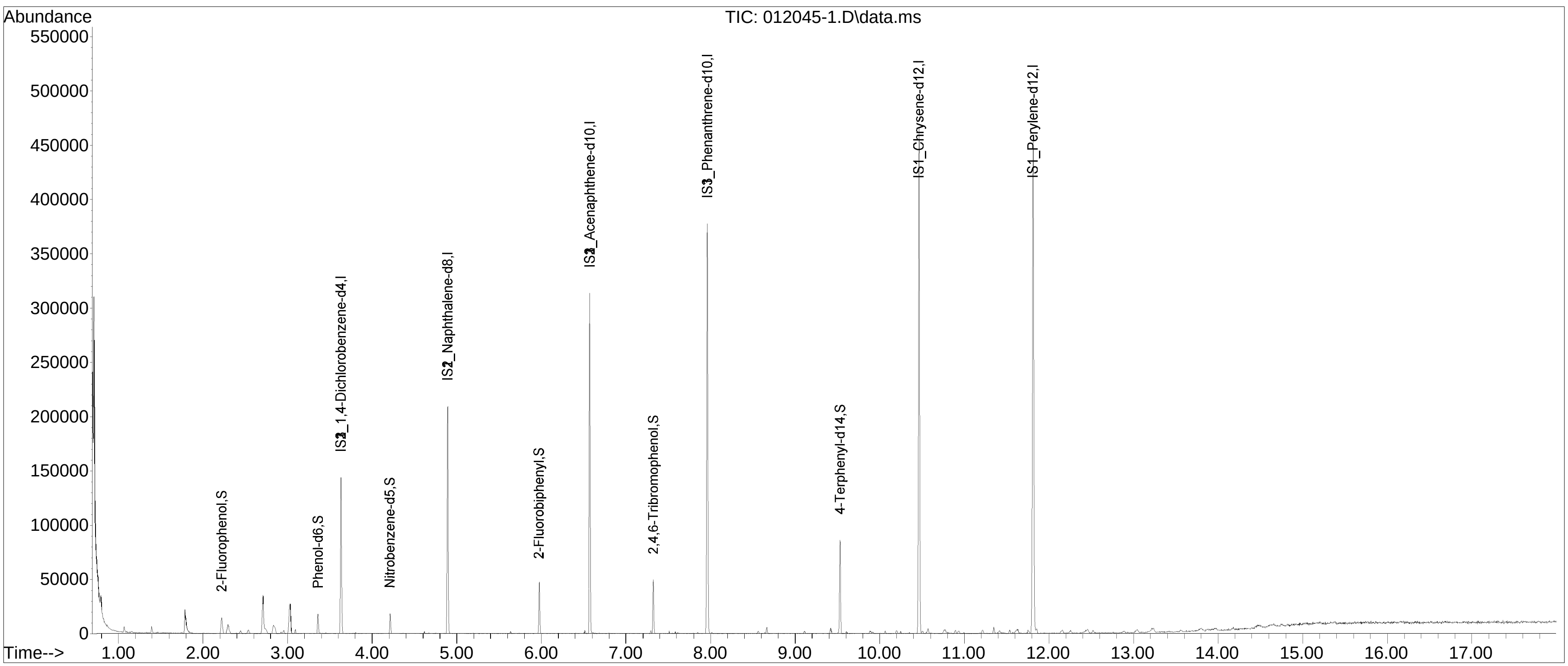
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241221RVT\
Data File : 012045-1.D
Acq On : 21 Dec 2024 10:03 am
Operator : Dakota:smz
Sample : WG2012045-1,32,,gmr
Misc : WG2012119,WG2012045,ical21680
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 23 08:50:21 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MA1RVT\AP91221.D•



Manual Integration Report

```
Data Path   : I:\8270\Dakota\241221RVT\ QMethod     : FS241105RVT_Dakota.m
Data File   : 012045-1.D                Operator    : Dakota:smz
Date Inj'd  : 12/21/2024 10:03 am       Instrument  : Dakota
Sample      : WG2012045-1,32,,gmr       Quant Date  : 12/21/2024 10:21 am
```

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

LSC Area Percent Report

Data Path : I:\8270\Dakota\241221RVT\
Data File : 012045-1.D
Acq On : 21 Dec 2024 10:03 am
Operator : Dakota:smz
Sample : WG2012045-1,32,,gmr
Misc : WG2012119,WG2012045,ical21680
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 012045-1.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.392 | 222 | 227 | 233 | rBV4 | 6318 | 6788 | 1.45% | 0.328% |
| 2 | 1.784 | 349 | 353 | 372 | rBV | 21747 | 31187 | 6.65% | 1.506% |
| 3 | 2.219 | 485 | 493 | 502 | rBB3 | 14866 | 17500 | 3.73% | 0.845% |
| 4 | 2.294 | 508 | 517 | 530 | rVB5 | 8578 | 13429 | 2.87% | 0.648% |
| 5 | 2.710 | 640 | 651 | 658 | rBV4 | 35181 | 43227 | 9.22% | 2.087% |
| 6 | 2.834 | 684 | 691 | 702 | rVB5 | 7953 | 15397 | 3.29% | 0.743% |
| 7 | 3.030 | 743 | 754 | 763 | rVB3 | 27734 | 41809 | 8.92% | 2.018% |
| 8 | 3.360 | 856 | 860 | 866 | rVB | 17935 | 14120 | 3.01% | 0.682% |
| 9 | 3.630 | 941 | 947 | 957 | rVB | 143962 | 124503 | 26.57% | 6.010% |
| 10 | 4.208 | 1129 | 1133 | 1139 | rBV2 | 18348 | 13317 | 2.84% | 0.643% |
| 11 | 4.892 | 1346 | 1353 | 1360 | rBV | 209508 | 163659 | 34.92% | 7.900% |
| 12 | 5.977 | 1696 | 1702 | 1710 | rBB | 47865 | 35240 | 7.52% | 1.701% |
| 13 | 6.570 | 1886 | 1893 | 1902 | rBV | 313681 | 239880 | 51.19% | 11.580% |
| 14 | 7.323 | 2130 | 2135 | 2143 | rVB3 | 49637 | 38141 | 8.14% | 1.841% |
| 15 | 7.963 | 2333 | 2341 | 2350 | rBV | 377746 | 315992 | 67.43% | 15.254% |
| 16 | 9.532 | 2839 | 2846 | 2852 | rVB | 86126 | 73445 | 15.67% | 3.545% |
| 17 | 10.462 | 3138 | 3145 | 3154 | rBV2 | 465966 | 409855 | 87.46% | 19.785% |
| 18 | 11.344 | 3425 | 3429 | 3435 | rBV5 | 5609 | 5388 | 1.15% | 0.260% |
| 19 | 11.811 | 3570 | 3579 | 3588 | rBV2 | 456301 | 468642 | 100.00% | 22.623% |

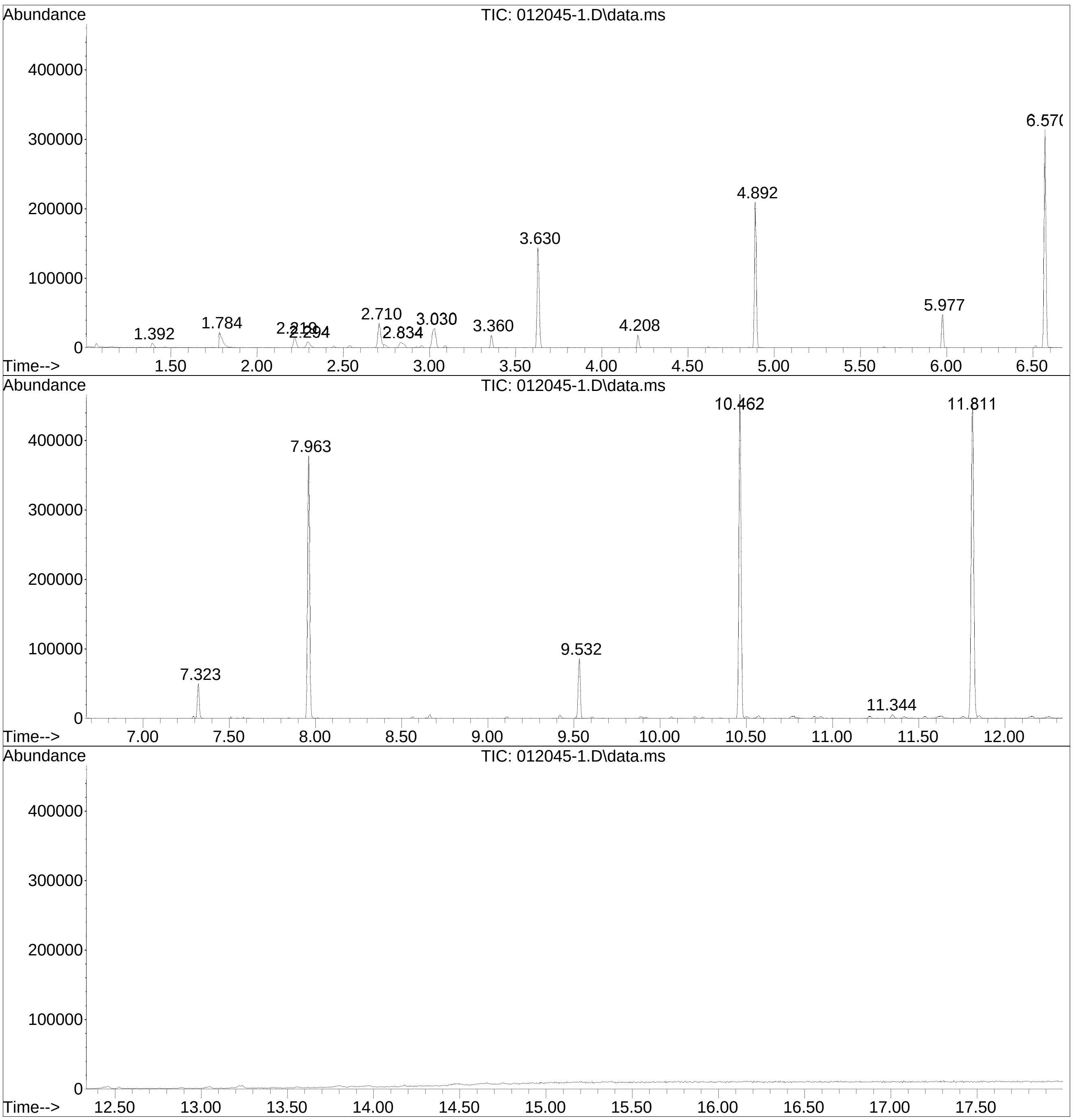
Sum of corrected areas: 2071519

LSC Report - Integrated Chromatogram

Data Path : I:\8270\Dakota\241221RVT\
Data File : 012045-1.D
Acq On    : 21 Dec 2024  10:03 am
Operator  : Dakota:smz
Sample    : WG2012045-1,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 7   Sample Multiplier: 1

Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270

TIC Library   : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P



# Library Search Compound Report

Data Path : I:\8270\Dakota\241221RVT\
Data File : 012045-1.D
Acq On : 21 Dec 2024 10:03 am
Operator : Dakota:smz
Sample : WG2012045-1,32,,gmr
Misc : WG2012119,WG2012045,ical21680
ALS Vial : 7 Sample Multiplier: 1

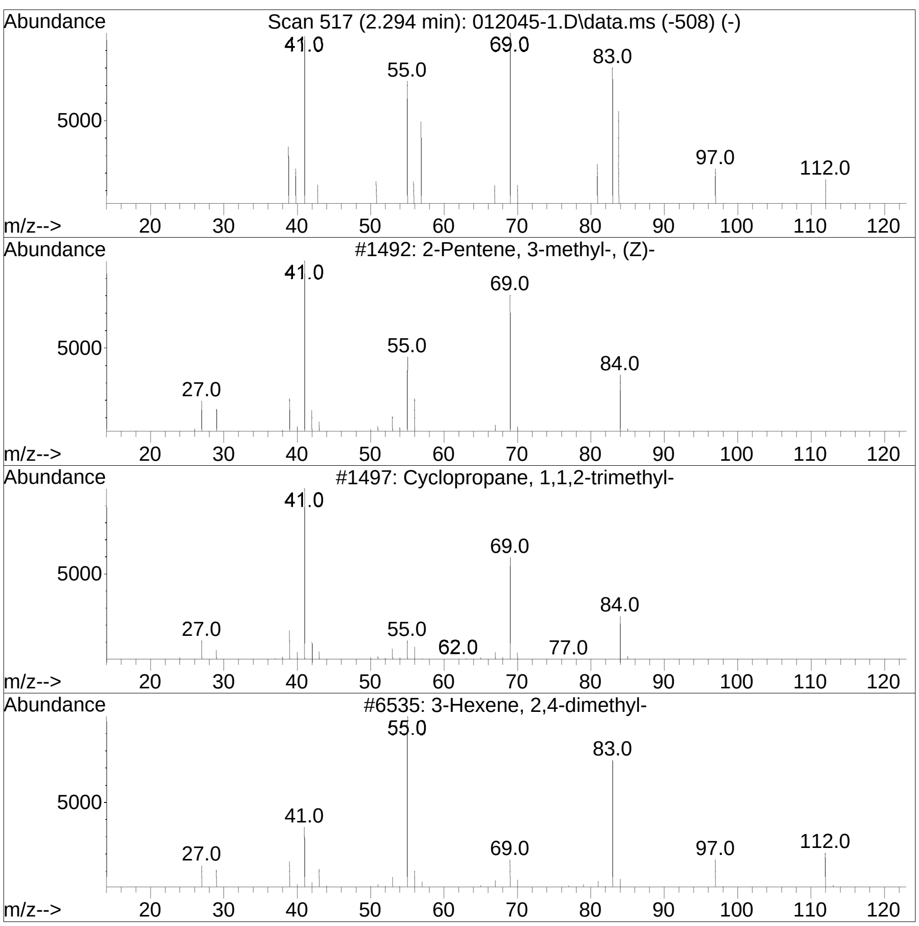
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270

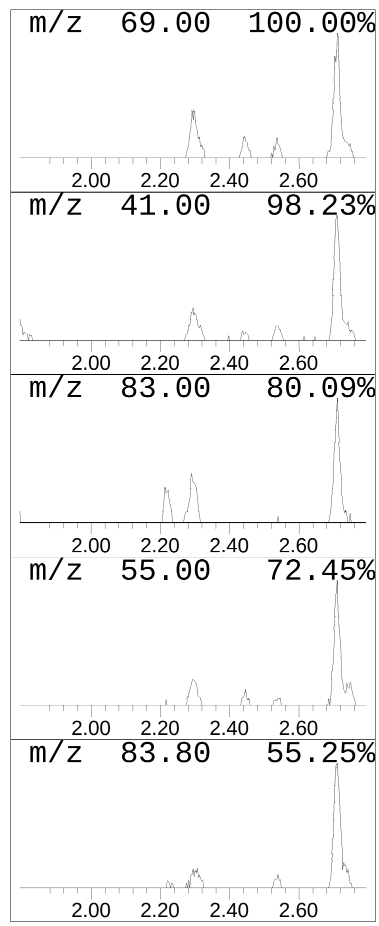
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

*********************************************************************
Peak Number 2 Unknown Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.294 | 0.43 ug/ml | 13429 | IS2_1,4-Dichlorobenzene-d4 | 3.630 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentene, 3-methyl-, (Z)- | 84 | C6H12 | 000922-62-3 | 43 |
| 2 | Cyclopropane, 1,1,2-trimethyl- | 84 | C6H12 | 004127-45-1 | 43 |
| 3 | 3-Hexene, 2,4-dimethyl- | 112 | C8H16 | 082085-14-1 | 43 |
| 4 | 2-Pentene, 2-methyl- | 84 | C6H12 | 000625-27-4 | 43 |
| 5 | 3-Hexene, 2,2-dimethyl-, (Z)- | 112 | C8H16 | 000690-92-6 | 43 |



Library Search Compound Report

Data Path : I:\8270\Dakota\241221RVT\
Data File : 012045-1.D
Acq On : 21 Dec 2024 10:03 am
Operator : Dakota:smz
Sample : WG2012045-1,32,,gmr
Misc : WG2012119,WG2012045,ical21680
ALS Vial : 7 Sample Multiplier: 1

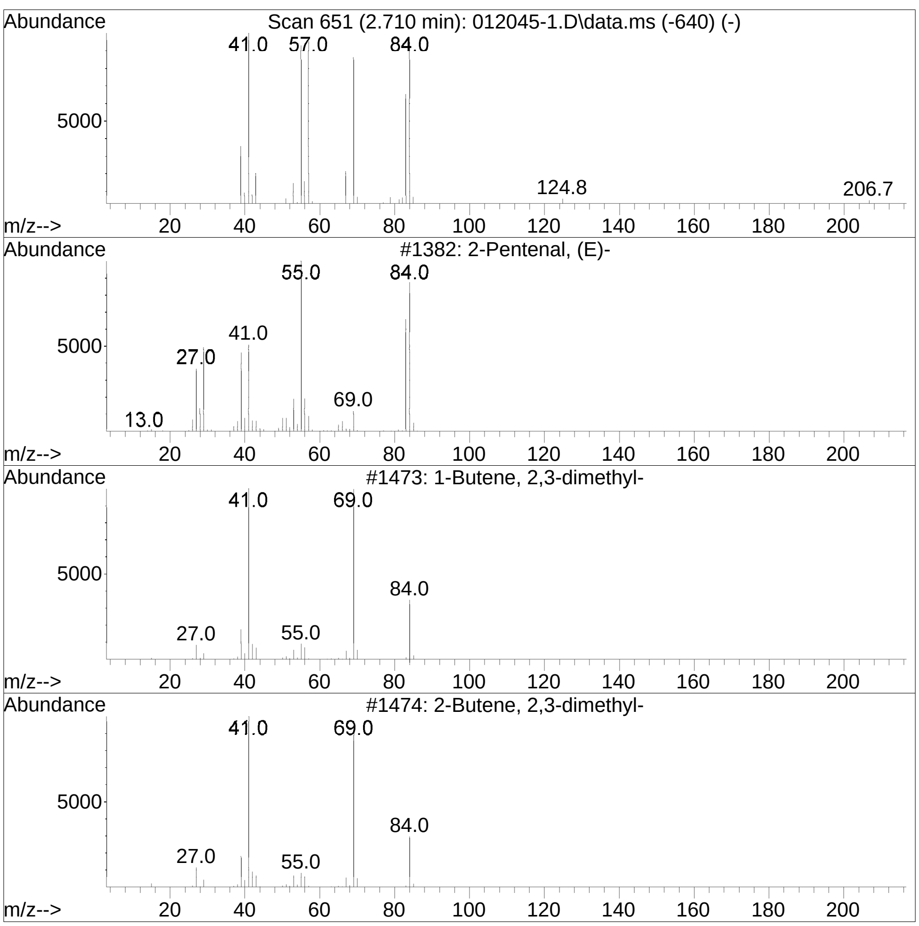
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270

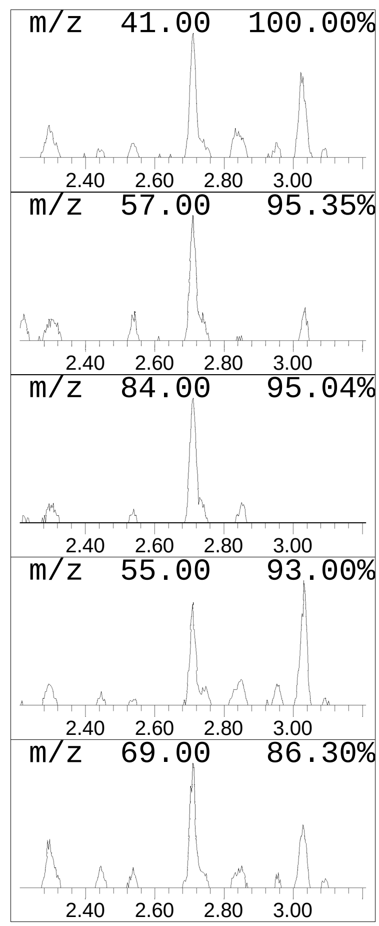
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

*********************************************************************
Peak Number 3 Unknown Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.710 | 1.39 ug/ml | 43227 | IS2_1,4-Dichlorobenzene-d4 | 3.630 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentenal, (E)- | 84 | C5H8O | 001576-87-0 | 60 |
| 2 | 1-Butene, 2,3-dimethyl- | 84 | C6H12 | 000563-78-0 | 50 |
| 3 | 2-Butene, 2,3-dimethyl- | 84 | C6H12 | 000563-79-1 | 47 |
| 4 | 2-Pentene, 4-methyl- | 84 | C6H12 | 004461-48-7 | 47 |
| 5 | 2-Butenal, 3-methyl- | 84 | C5H8O | 000107-86-8 | 46 |



Library Search Compound Report

Data Path : I:\8270\Dakota\241221RVT\
Data File : 012045-1.D
Acq On : 21 Dec 2024 10:03 am
Operator : Dakota:smz
Sample : WG2012045-1,32,,gmr
Misc : WG2012119,WG2012045,ical21680
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270

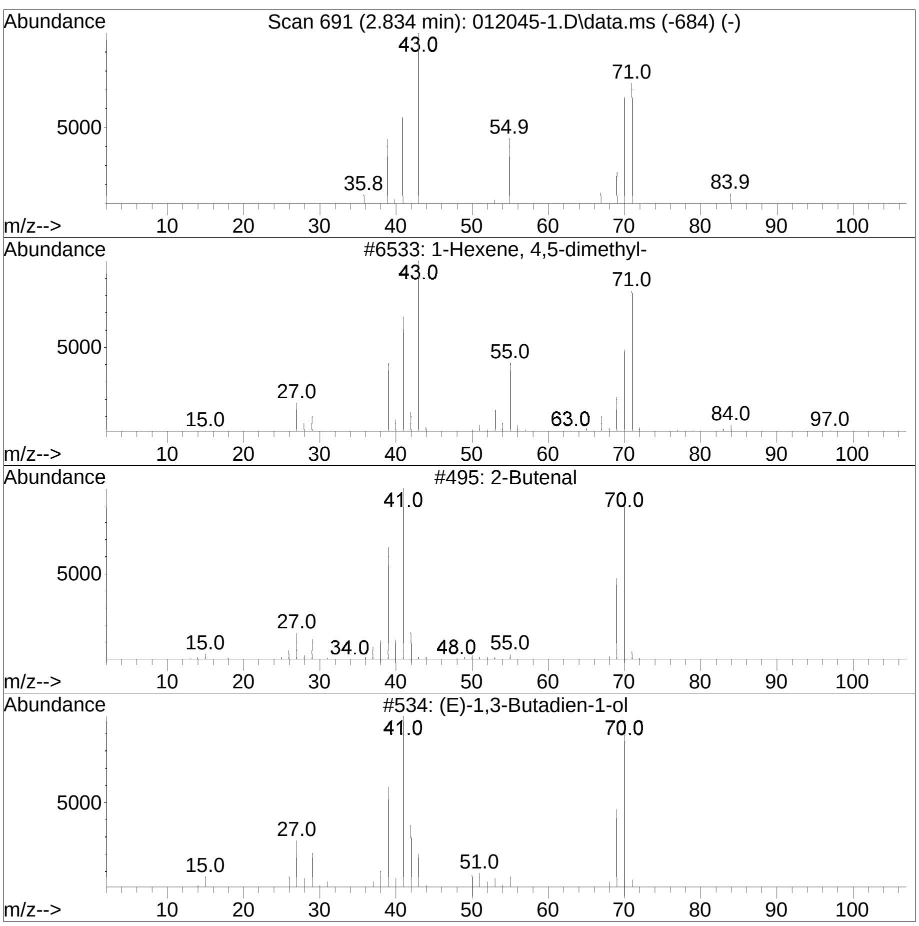
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

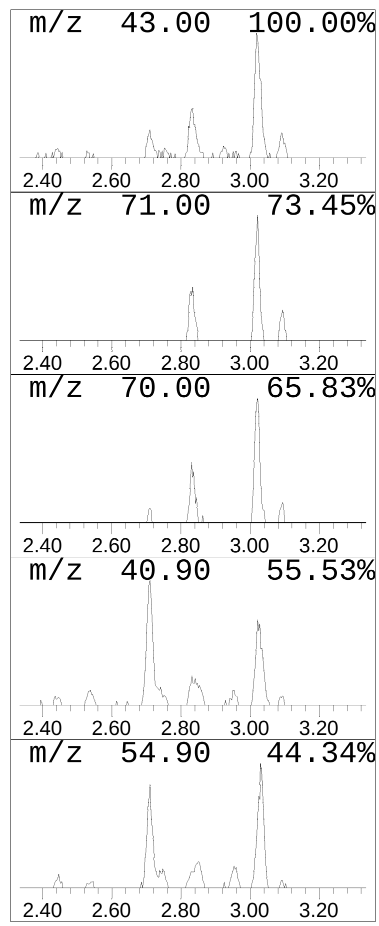
*********************************************************************

Peak Number 4 Unknown Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.834 | 0.49 ug/ml | 15397 | IS2_1,4-Dichlorobenzene-d4 | 3.630 |

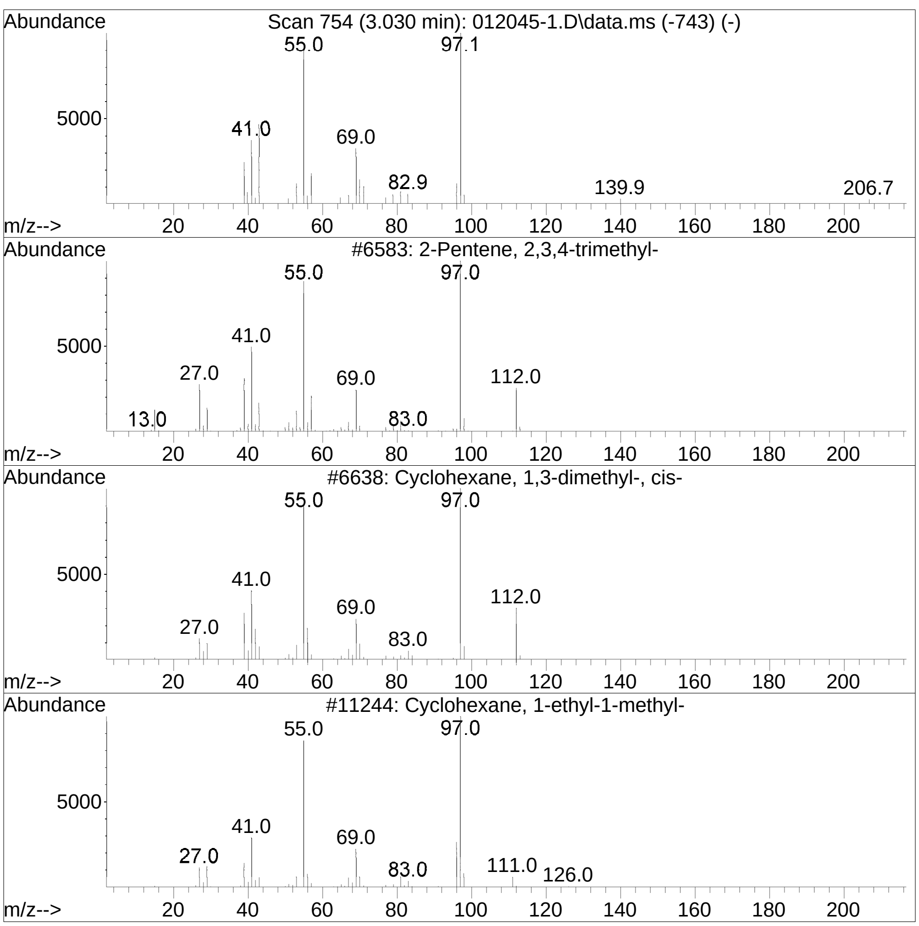
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hexene, 4,5-dimethyl- | 112 | C8H16 | 016106-59-5 | 72 |
| 2 | 2-Butenal | 70 | C4H6O | 004170-30-3 | 27 |
| 3 | (E)-1,3-Butadien-1-ol | 70 | C4H6O | 070411-98-2 | 16 |
| 4 | (Z)-1,3-Butadien-1-ol | 70 | C4H6O | 070415-58-6 | 16 |
| 5 | Methacrolein | 70 | C4H6O | 000078-85-3 | 9 |

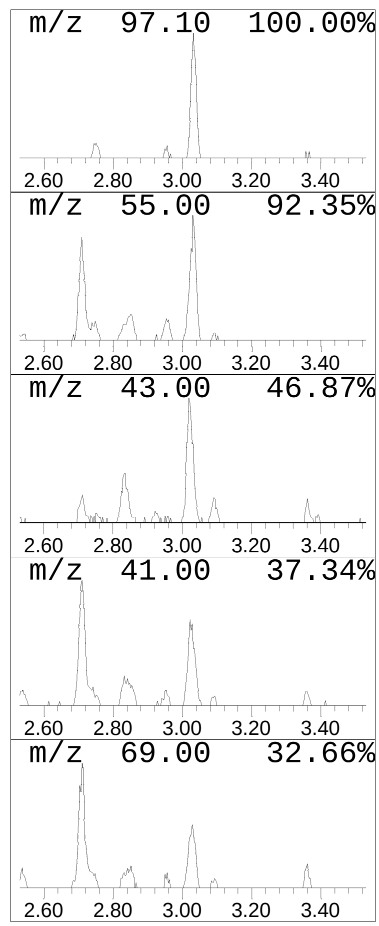


Library Search Compound Report

```
Data Path : I:\8270\Dakota\241221RVT\
Data File : 012045-1.D
Acq On    : 21 Dec 2024  10:03 am
Operator  : Dakota:smz
Sample    : WG2012045-1,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 7   Sample Multiplier: 1

Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270

TIC Library   : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

*********************************************************************
Peak Number  5  Unknown                        Concentration Rank  2

  R.T.     EstConc          Area      Relative to ISTD        R.T.
---------------------------------------------------------------------
  3.030    1.34 ug/ml       41809   IS2_1,4-Dichlorobenzene-d4   3.630

 Hit# of  5    Tentative ID              MW  MolForm       CAS#      Qual
---------------------------------------------------------------------
 1 2-Pentene, 2,3,4-trimethyl-          112 C8H16         000565-77-5 64
 2 Cyclohexane, 1,3-dimethyl-, cis-     112 C8H16         000638-04-0 59
 3 Cyclohexane, 1-ethyl-1-methyl-       126 C9H18         004926-90-3 59
 4 Z-3,4,4-Trimethyl-2-pentene          112 C8H16         039761-64-3 59
 5 Cyclohexane, 1,4-dimethyl-           112 C8H16         000589-90-2 59
```



Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\Dakota\241221RVT\
Data File : 012045-1.D
Acq On : 21 Dec 2024 10:03 am
Operator : Dakota:smz
Sample : WG2012045-1,32,,gmr
Misc : WG2012119,WG2012045,ical21680
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Unknown | 2.294 | 0.4 | ug/ml | 13429 | 1 | 3.630 | 124503 | 4.0 |
| Unknown | 2.710 | 1.4 | ug/ml | 43227 | 1 | 3.630 | 124503 | 4.0 |
| Unknown | 2.834 | 0.5 | ug/ml | 15397 | 1 | 3.630 | 124503 | 4.0 |
| Unknown | 3.030 | 1.3 | ug/ml | 41809 | 1 | 3.630 | 124503 | 4.0 |

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270\Dakota\241221RVT\
Data File : 012045-2.D
Acq On    : 21 Dec 2024  10:26 am
Operator  : Dakota:smz
Sample    : WG2012045-2,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Dec 23 08:51:02 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
             : 2 - I:\8270\Dakota\241221RVT\ADP1221.D
             : 3 - I:\8270\Dakota\241221RVT\AP91221.D
Sub List     : 8270TCL_REV2 - TCL/CT/MA

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
--------------------------------------------------------------------------
 Internal Standards
 1) IS1_1,4-Dichlorobenzen...   3.630  152     22754     4.000 ug/ml    0.00
   Standard Area 1 = 22385                 Recovery   =  101.65%
27) IS2_1,4-Dichlorobenzen...   3.630  152     22754     4.000 ug/ml    0.00
   Standard Area 3 = 23078                 Recovery   =   98.60%
32) IS3_1,4-Dichlorobenzen...   3.630  152     22754     4.000 ug/ml    0.00
   Standard Area 2 = 21890                 Recovery   =  103.95%
37) IS1_Naphthalene-d8          4.892  136     84430     4.000 ug/ml    0.00
   Standard Area 1 = 89532                 Recovery   =   94.30%
57) IS2_Naphthalene-d8          4.892  136     84430     4.000 ug/ml    0.00
   Standard Area 3 = 89152                 Recovery   =   94.70%
65) IS1_Acenaphthene-d10        6.570  164     57763     4.000 ug/ml    0.00
   Standard Area 1 = 62636                 Recovery   =   92.22%
85) IS2_Acenaphthene-d10        6.570  164     57763     4.000 ug/ml    0.00
   Standard Area 3 = 59962                 Recovery   =   96.33%
88) IS3_Acenaphthene-d10        6.570  164     57763     4.000 ug/ml    0.00
   Standard Area 2 = 55641                 Recovery   =  103.81%
90) IS1_Phenanthrene-d10        7.960  188    132994     4.000 ug/ml    0.00
   Standard Area 1 = 138966                 Recovery   =   95.70%
102) IS3_Phenanthrene-d10       7.960  188    132994     4.000 ug/ml    0.00
   Standard Area 2 = 132823                 Recovery   =  100.13%
106) IS1_Chrysene-d12          10.465  240    151896     4.000 ug/ml    0.00
   Standard Area 1 = 162401                 Recovery   =   93.53%
115) IS1_Perylene-d12          11.814  264    187187     4.000 ug/ml    0.00
   Standard Area 1 = 195179                 Recovery   =   95.91%

 System Monitoring Compounds
 4) 2-Fluorophenol              2.219  112      5947     1.017 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   50.85%
 7) Phenol-d6                   3.360   99      5443     0.727 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   36.35%
19) Nitrobenzene-d5             4.208   82      5334     0.785 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   78.50%
48) 2-Fluorobiphenyl            5.974  172     14655     0.701 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   70.10%
81) 2,4,6-Tribromophenol        7.323  330      7579     1.836 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   91.80%
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241221RVT\
Data File : 012045-2.D
Acq On : 21 Dec 2024 10:26 am
Operator : Dakota:smz
Sample : WG2012045-2,32,,gmr
Misc : WG2012119,WG2012045,ical21680
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 23 08:51:02 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
: 2 - I:\8270\Dakota\241221RVT\ADP1221.D
: 3 - I:\8270\Dakota\241221RVT\AP91221.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 98) 4-Terphenyl-d14 | 9.533 | 244 | 28173 | 0.732 ug/ml | 0.00 |

Spiked Amount 1.000 Range 30 - 130 Recovery = 73.20%

| Target Compounds | R.T. | QIon | Response | Conc Units | Qvalue |
|---|---|---|---|---|---|
| 6) 2-Chlorophenol | 3.419 | 128 | 9798 | 1.406 ug/ml# | 87 |
| 8) Phenol | 3.372 | 94 | 6442 | 0.797 ug/ml | 99 |
| 14) Bis(2-chloroisopropyl)... | 3.978 | 45 | 13809 | 1.353 ug/ml# | 63 |
| 15) 2-Methylphenol | 3.988 | 108 | 7774 | 1.266 ug/ml | 94 |
| 17) n-Nitrosodi-n-propylamine | 4.112 | 70 | 7475 | 1.523 ug/ml# | 80 |
| 18) 3-Methylphenol/4-Methy... | 4.155 | 108 | 8725 | 1.297 ug/ml# | 60 |
| 20) Nitrobenzene | 4.224 | 77 | 9686 | 1.393 ug/ml | 98 |
| 21) Isophorone | 4.479 | 82 | 18823 | 1.473 ug/ml# | 93 |
| 22) 2-Nitrophenol | 4.544 | 139 | 5326 | 1.513 ug/ml# | 88 |
| 23) 2,4-Dimethylphenol | 4.665 | 107 | 6353 | 1.015 ug/ml | 98 |
| 24) Bis(2-chloroethoxy)met... | 4.746 | 93 | 11520 | 1.447 ug/ml# | 95 |
| 25) 2,4-Dichlorophenol | 4.793 | 162 | 11460 | 1.568 ug/ml# | 91 |
| 28) Benzaldehyde | 3.170 | 105 | 7626 | 1.906 ug/ml | 96 |
| 29) Acetophenone | 4.068 | 105 | 15250 | 1.910 ug/ml# | 75 |
| 40) 4-Chloroaniline | 5.010 | 65 | 3714 | 1.455 ug/ml | 90 |
| 42) p-Chloro-m-cresol | 5.539 | 107 | 9913 | 1.620 ug/ml | 93 |
| 45) Hexachlorocyclopentadiene | 5.765 | 237 | 4505 | 0.784 ug/ml# | 99 |
| 46) 2,4,6-Trichlorophenol | 5.893 | 196 | 9914 | 1.639 ug/ml | 98 |
| 47) 2,4,5-Trichlorophenol | 5.921 | 196 | 11310 | 1.672 ug/ml | 94 |
| 50) 2-Nitroaniline | 6.176 | 138 | 7906 | 1.717 ug/ml# | 79 |
| 53) Dimethyl phthalate | 6.400 | 163 | 34129 | 1.632 ug/ml# | 97 |
| 55) 2,6-Dinitrotoluene | 6.431 | 165 | 6302 | 1.614 ug/ml | 92 |
| 62) Caprolactam | 5.305 | 55 | 1769 | 0.682 ug/ml# | 85 |
| 63) 1,2,4,5-Tetrachloroben... | 5.762 | 216 | 13833 | 1.587 ug/ml# | 96 |
| 64) Biphenyl | 6.058 | 154 | 30189 | 1.699 ug/ml | 96 |
| 66) 3-Nitroaniline | 6.570 | 138 | 7326 | 1.642 ug/ml# | 86 |
| 68) 2,4-Dinitrophenol | 6.676 | 184 | 2134 | 0.786 ug/ml# | 80 |
| 69) Dibenzofuran | 6.769 | 168 | 41748 | 1.441 ug/ml | 92 |
| 70) 2,4-Dinitrotoluene | 6.807 | 165 | 9480 | 1.696 ug/ml | 87 |
| 71) 4-Nitrophenol | 6.797 | 65 | 4302 | 1.294 ug/ml | 94 |
| 74) Diethyl phthalate | 7.080 | 149 | 36372 | 1.600 ug/ml | 97 |
| 76) 4-Chlorophenyl phenyl ... | 7.133 | 204 | 16728 | 1.463 ug/ml# | 88 |
| 77) 4-Nitroaniline | 7.145 | 138 | 7695 | 1.785 ug/ml# | 77 |

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241221RVT\
Data File : 012045-2.D
Acq On : 21 Dec 2024 10:26 am
Operator : Dakota:smz
Sample : WG2012045-2,32,,gmr
Misc : WG2012119,WG2012045,ical21680
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 23 08:51:02 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
: 2 - I:\8270\Dakota\241221RVT\ADP1221.D
: 3 - I:\8270\Dakota\241221RVT\AP91221.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 78) 4,6-Dinitro-o-cresol | 7.183 | 198 | 4700 | 1.391 ug/ml# | 62 |
| 79) NDPA/DPA | 7.251 | 169 | 29019 | 1.504 ug/ml | 92 |
| 82) 4-Bromophenyl phenyl e... | 7.587 | 248 | 11840 | 1.572 ug/ml# | 80 |
| 89) Atrazine | 7.808 | 200 | 11007 | 2.222 ug/ml# | 79 |
| 93) Carbazole | 8.215 | 167 | 55810 | 1.577 ug/ml | 97 |
| 94) Di-n-butylphthalate | 8.653 | 149 | 67051 | 1.671 ug/ml | 99 |
| 99) Butyl benzyl phthalate | 10.055 | 149 | 30323 | 1.764 ug/ml# | 81 |
| 108) 3,3'-Dichlorobenzidine | 10.490 | 252 | 30520 | 1.592 ug/ml# | 95 |
| 110) Bis(2-ethylhexyl)phtha... | 10.667 | 149 | 47654 | 1.727 ug/ml# | 85 |
| 111) Di-n-octylphthalate | 11.298 | 149 | 78293 | 1.702 ug/ml# | 72 |

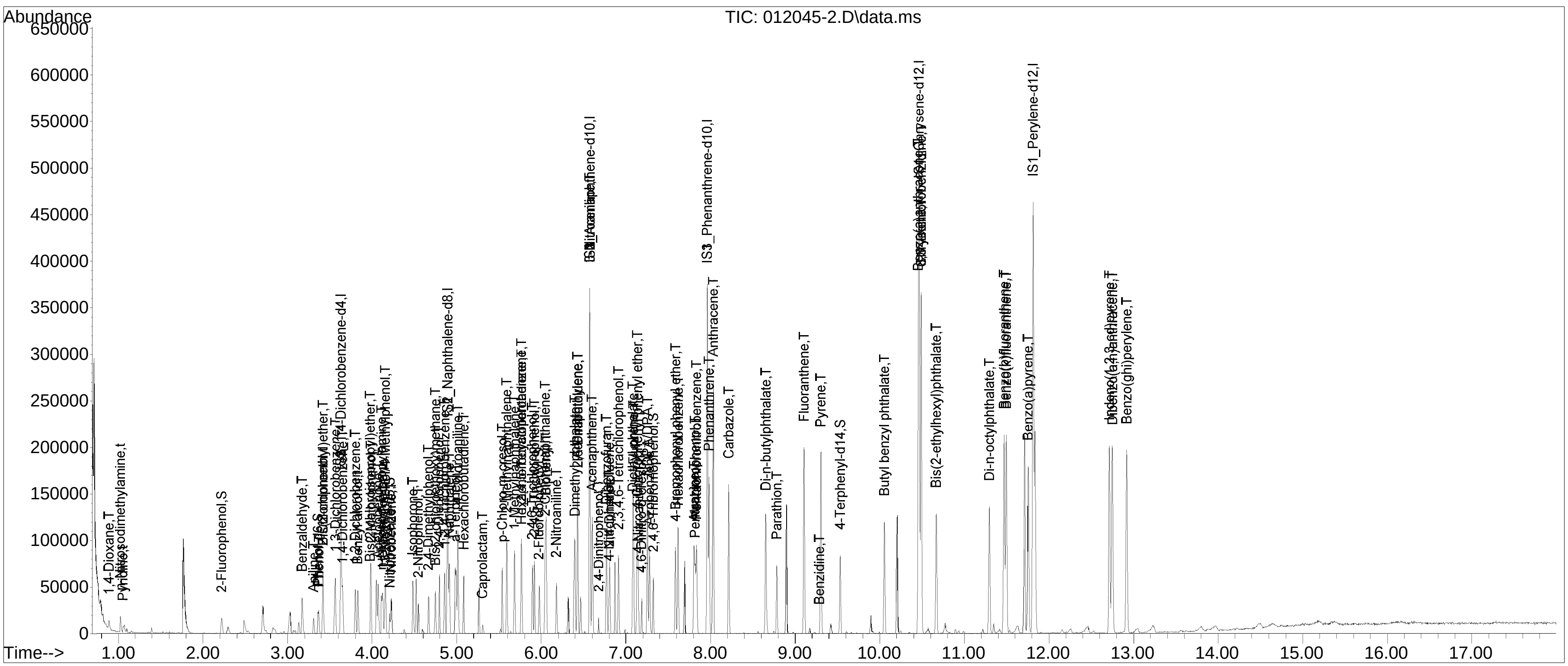
(#) = qualifier out of range (m) = manual integration (+) = signals summed

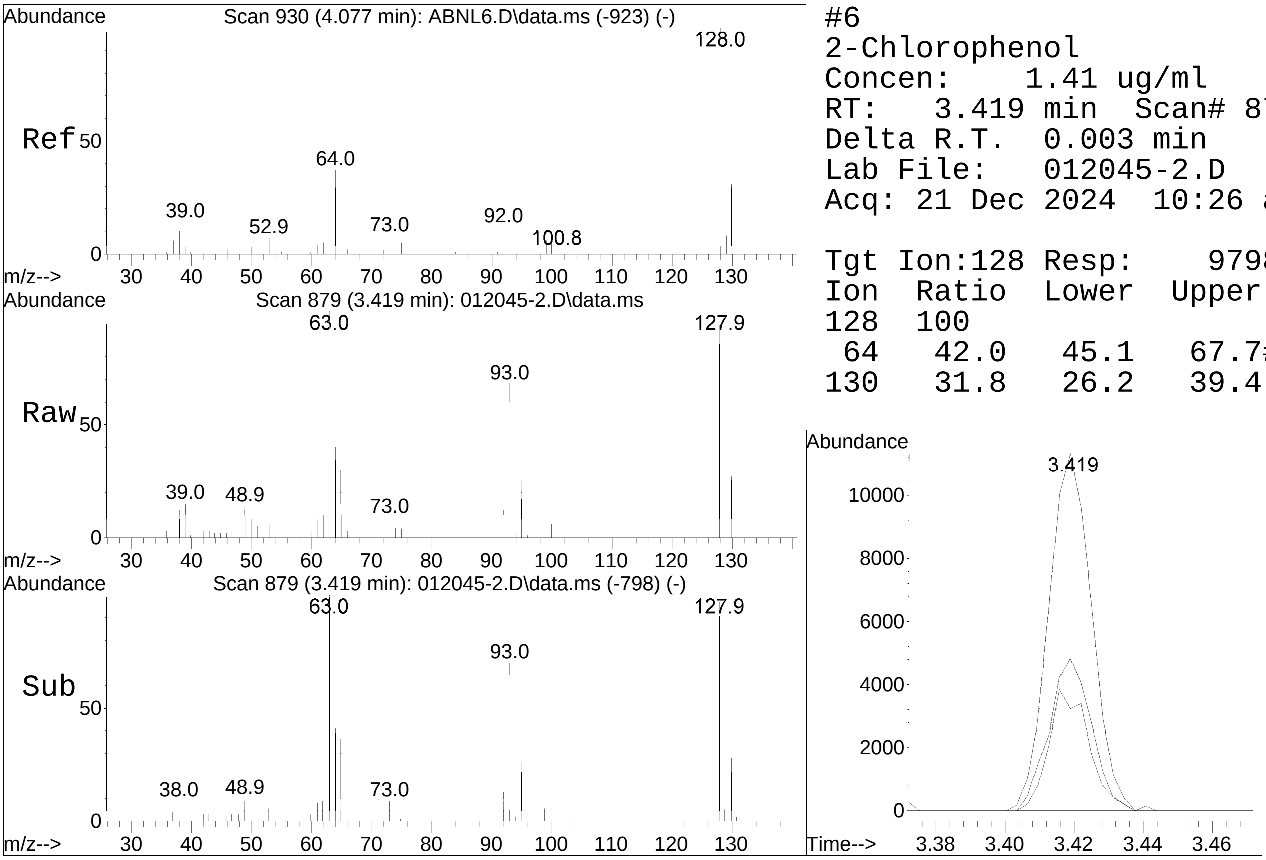
Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241221RVT\
Data File : 012045-2.D
Acq On    : 21 Dec 2024  10:26 am
Operator  : Dakota:smz
Sample    : WG2012045-2,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Dec 23 08:51:02 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

Sub List     : 8270TCL_REV2 - TCL/CT/MA1RVT\AP91221.D•

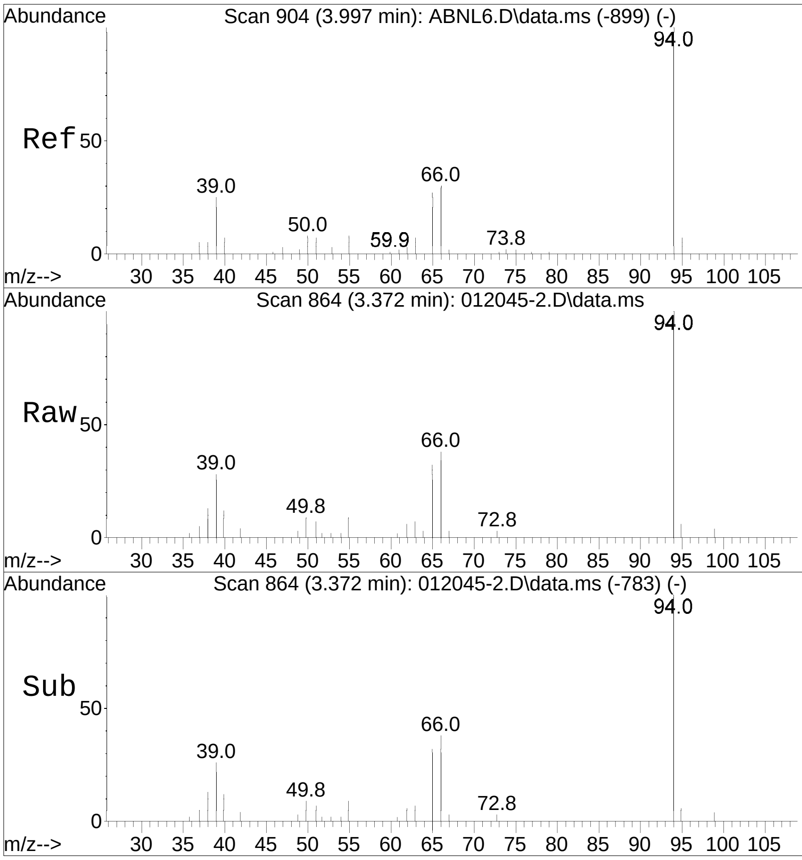





#6
2-Chlorophenol
Concen: 1.41 ug/ml
RT: 3.419 min Scan# 879
Delta R.T. 0.003 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:128 Resp: 9798

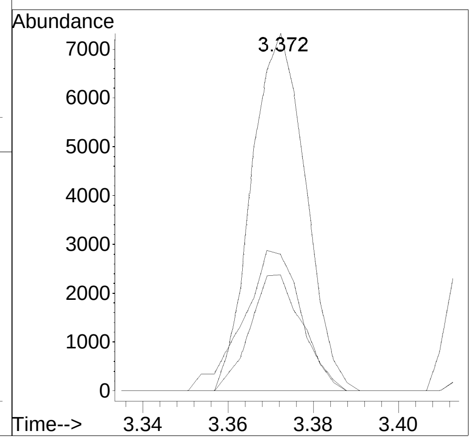
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 64 | 42.0 | 45.1 | 67.7# |
| 130 | 31.8 | 26.2 | 39.4 |

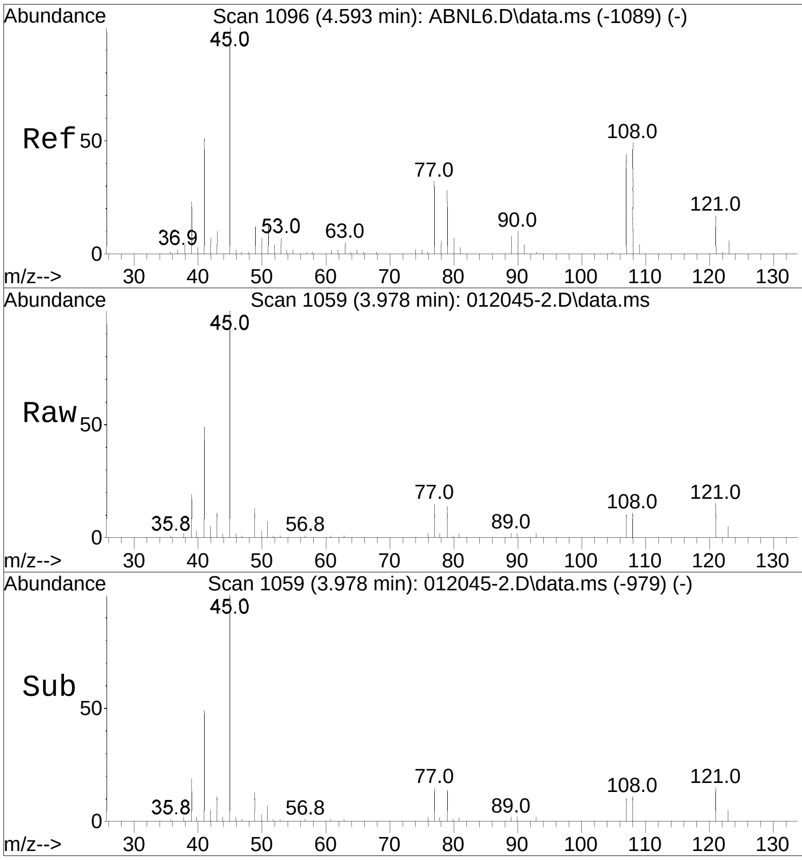



#8
Phenol
Concen: 0.80 ug/ml
RT: 3.372 min Scan# 864
Delta R.T. 0.003 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion: 94 Resp: 6442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 31.6 | 26.0 | 39.0 |
| 66 | 42.2 | 33.8 | 50.8 |

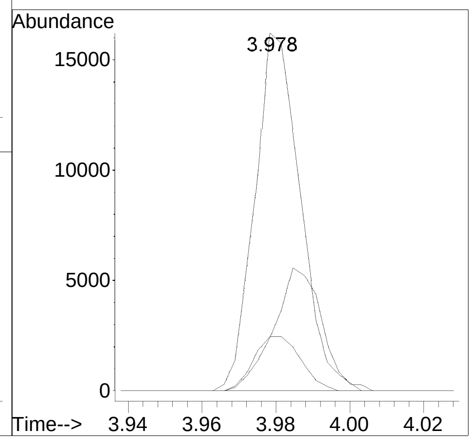


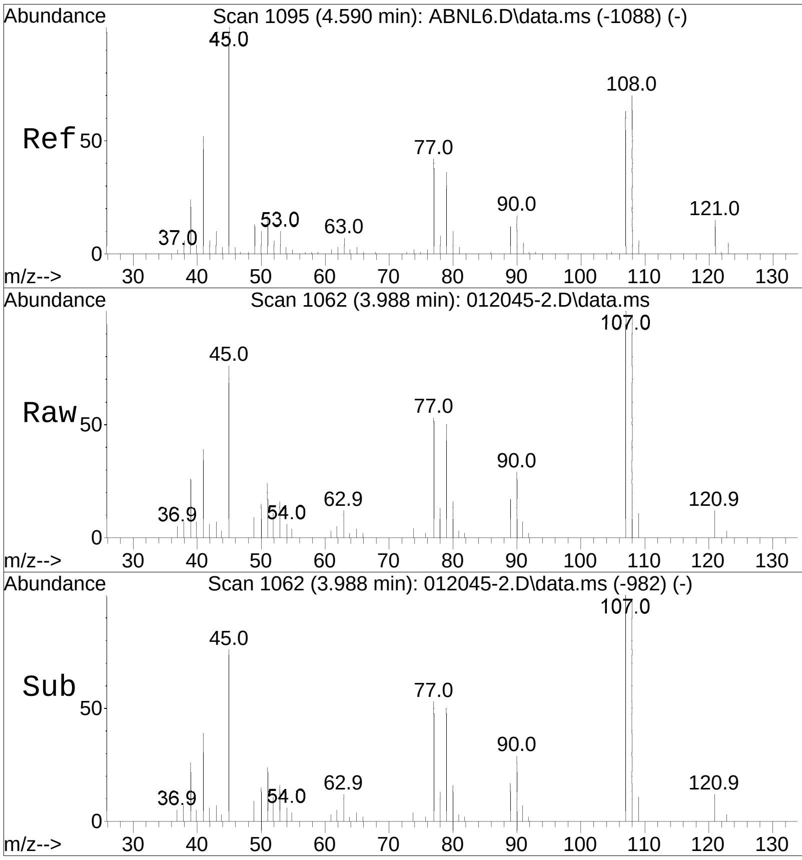



#14
Bis(2-chloroisopropyl)ether
Concen: 1.35 ug/ml
RT: 3.978 min Scan# 1059
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion: 45 Resp: 13809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 121 | 15.7 | 9.8 | 14.6# |
| 77 | 36.6 | 6.1 | 9.1# |

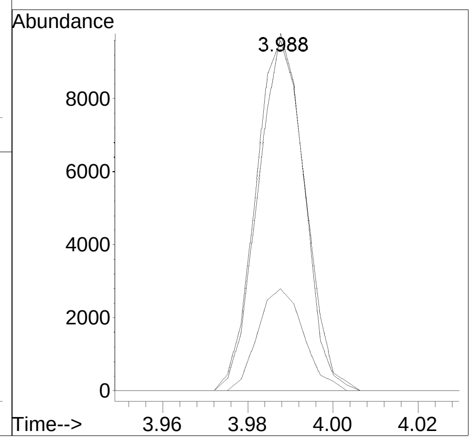


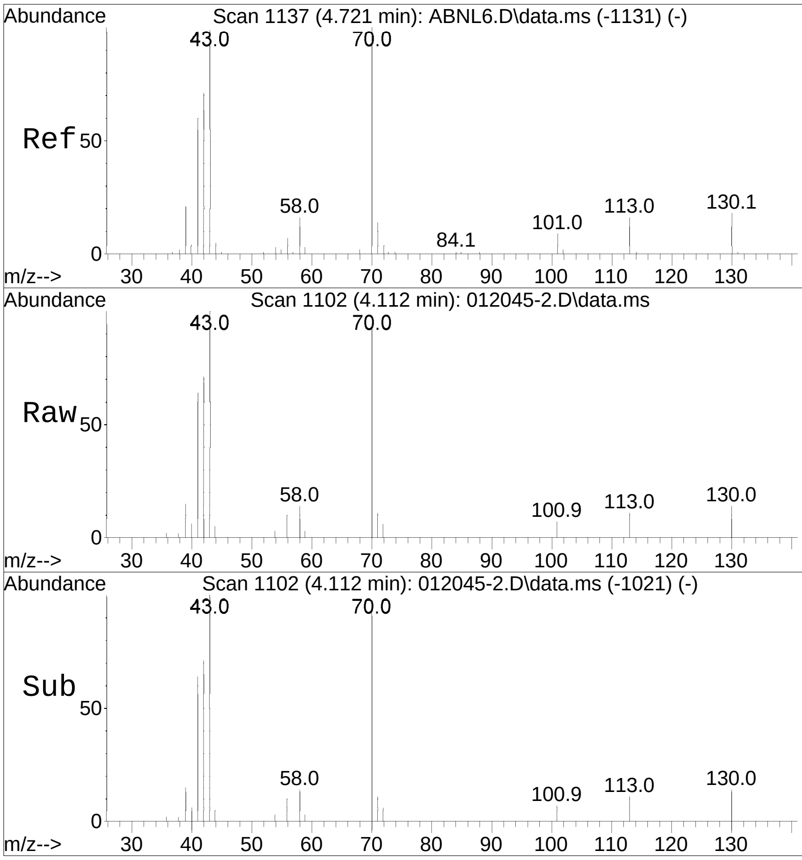



#15
2-Methylphenol
Concen: 1.27 ug/ml
RT: 3.988 min Scan# 1062
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:108 Resp: 7774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 107 | 94.2 | 70.7 | 106.1 |
| 90 | 26.8 | 18.7 | 28.1 |

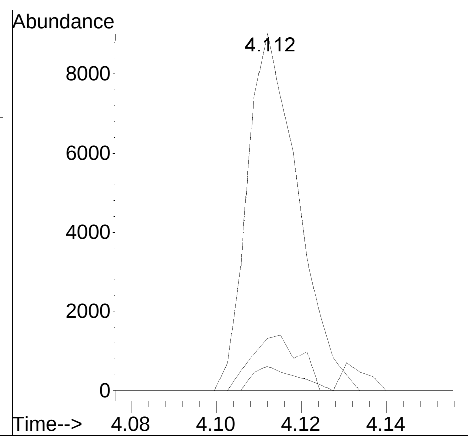





#17
n-Nitrosodi-n-propylamine
Concen: 1.52 ug/ml
RT: 4.112 min Scan# 1102
Delta R.T. 0.003 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion: 70 Resp: 7475

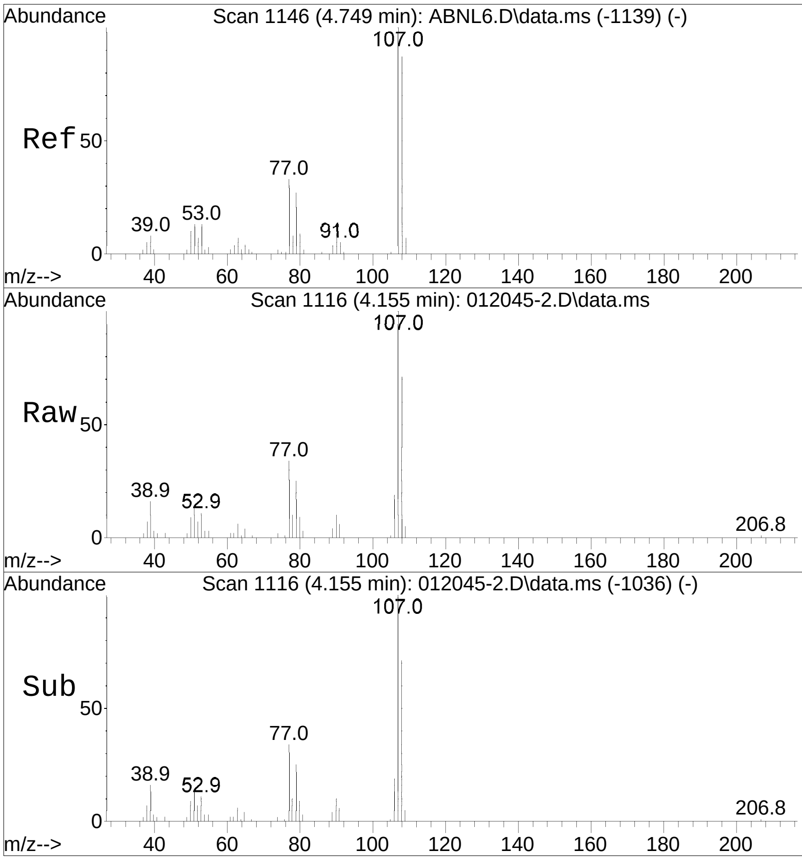
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 130 | 14.8 | 18.2 | 27.4# |
| 101 | 0.0 | 7.8 | 11.8# |

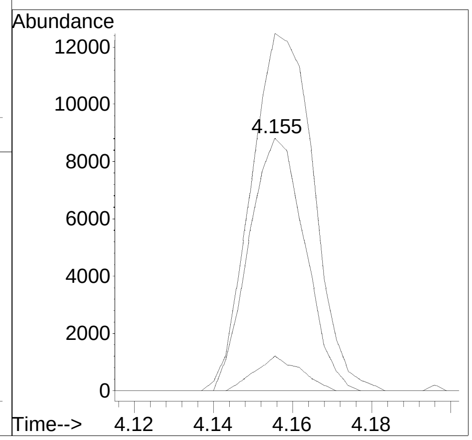


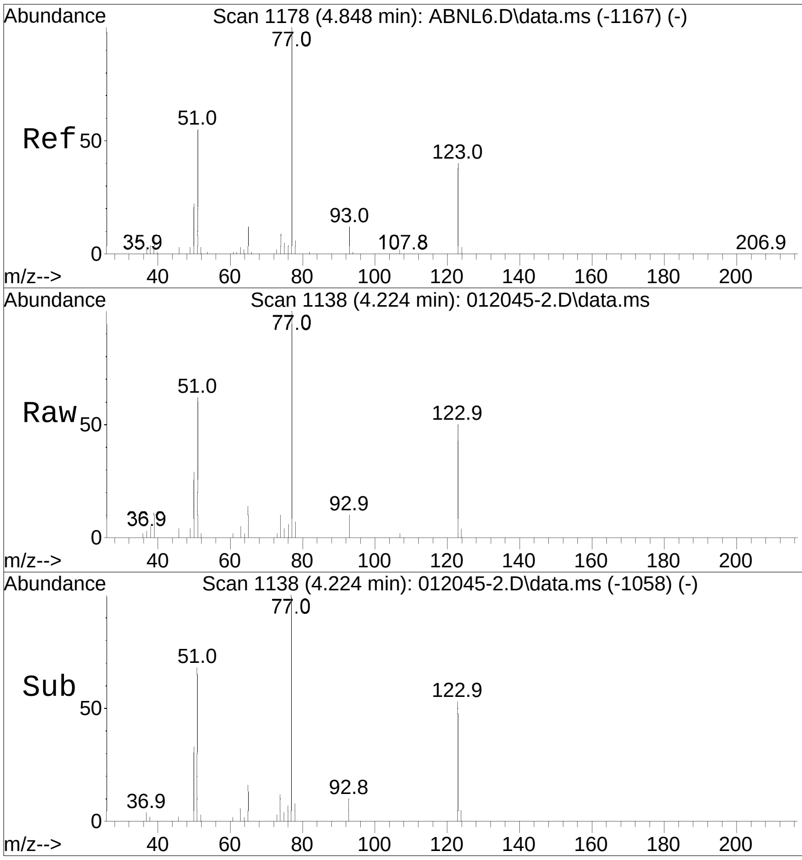
#18
3-Methylphenol/4-Methylphenol
Concen:    1.30 ug/ml
RT:   4.155 min  Scan# 1116
Delta R.T.  -0.000 min
Lab File:   012045-2.D
Acq: 21 Dec 2024  10:26 am

Tgt Ion:108 Resp:    8725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 107 | 157.7 | 88.6 | 132.8# |
| 90 | 11.2 | 8.8 | 13.2 |



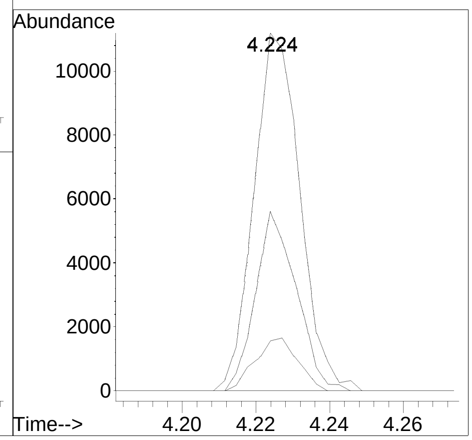



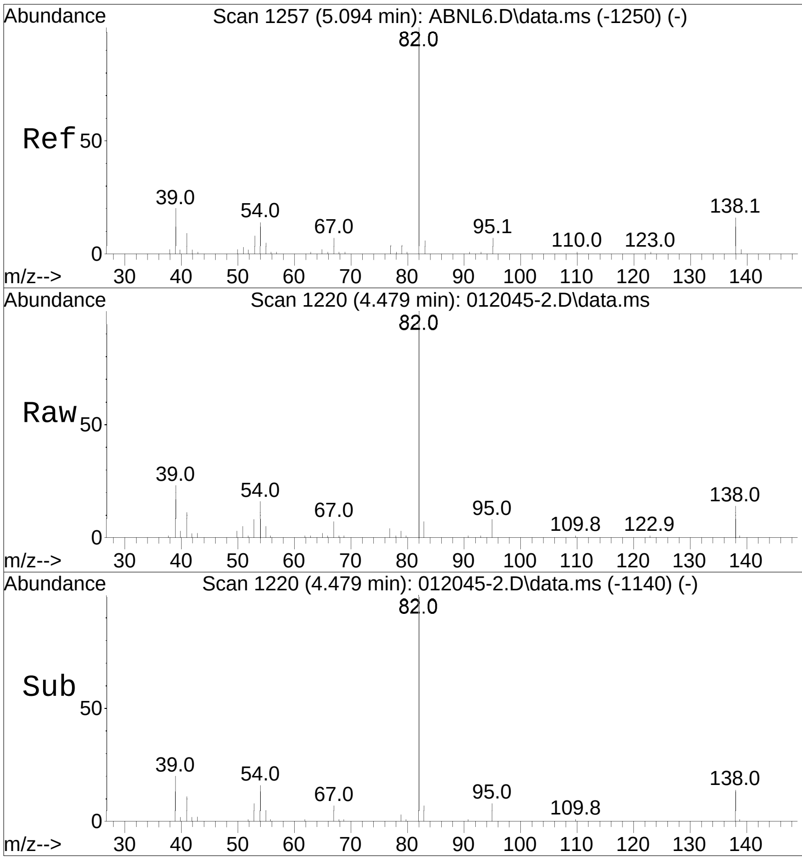



#20
Nitrobenzene
Concen: 1.39 ug/ml
RT: 4.224 min Scan# 1138
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion: 77 Resp: 9686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 44.5 | 36.3 | 54.5 |
| 65 | 13.7 | 11.6 | 17.4 |

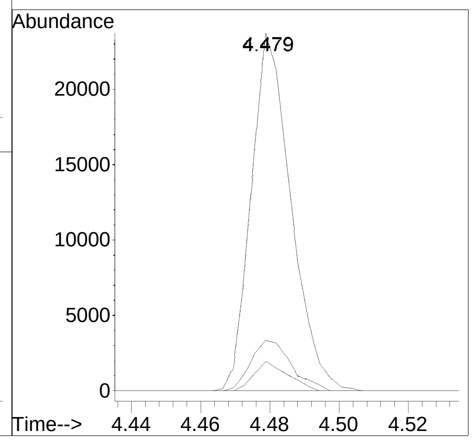


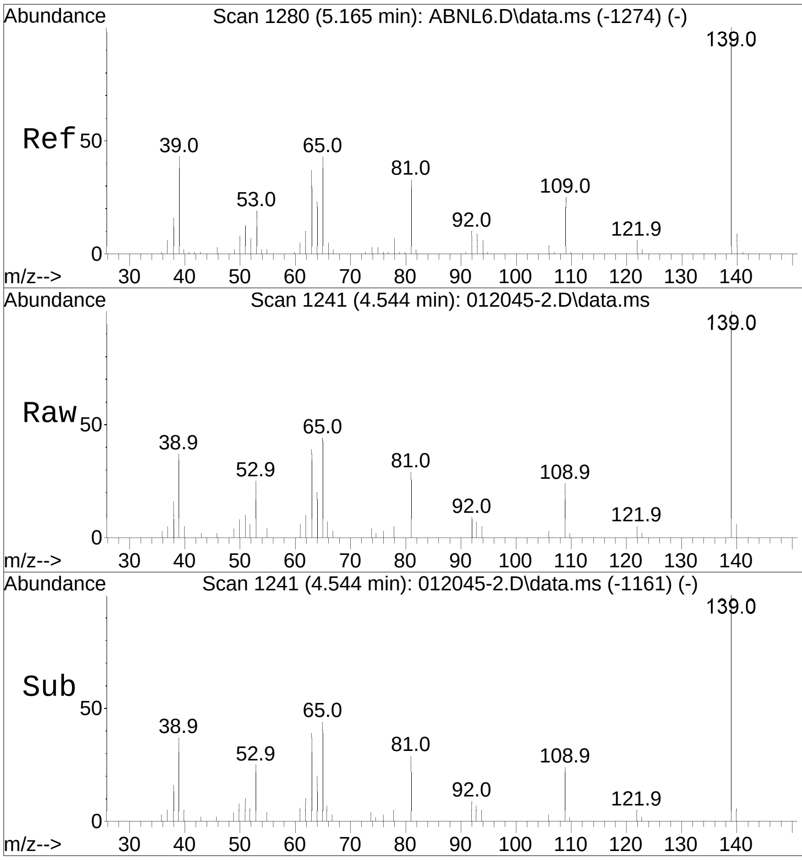



#21
Isophorone
Concen: 1.47 ug/ml
RT: 4.479 min Scan# 1220
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion: 82 Resp: 18823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 138 | 14.4 | 14.7 | 22.1# |
| 95 | 7.0 | 5.2 | 7.8 |

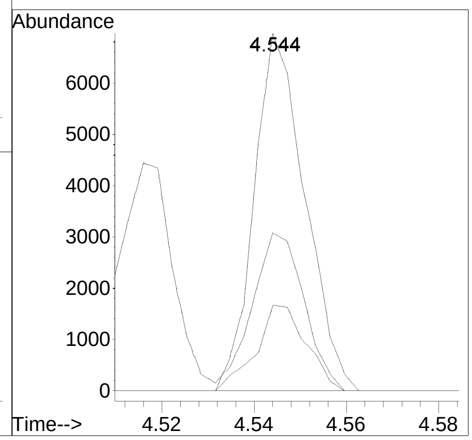


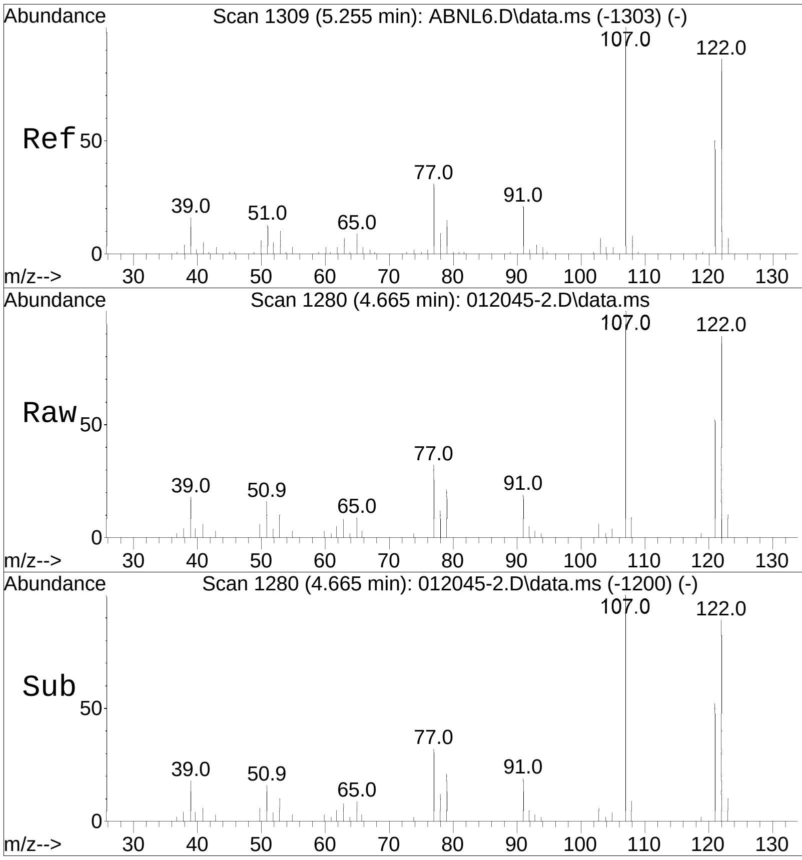



#22
2-Nitrophenol
Concen: 1.51 ug/ml
RT: 4.544 min Scan# 1241
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:139 Resp: 5326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 23.6 | 19.4 | 29.0 |
| 65 | 45.0 | 46.1 | 69.1# |

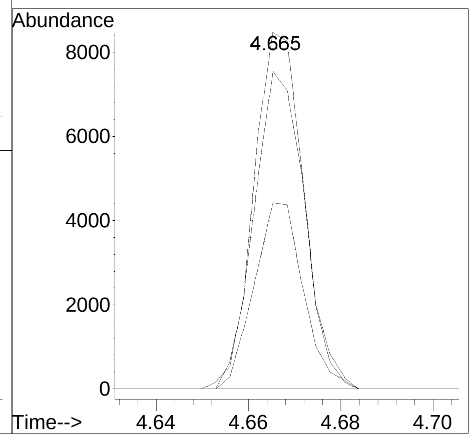


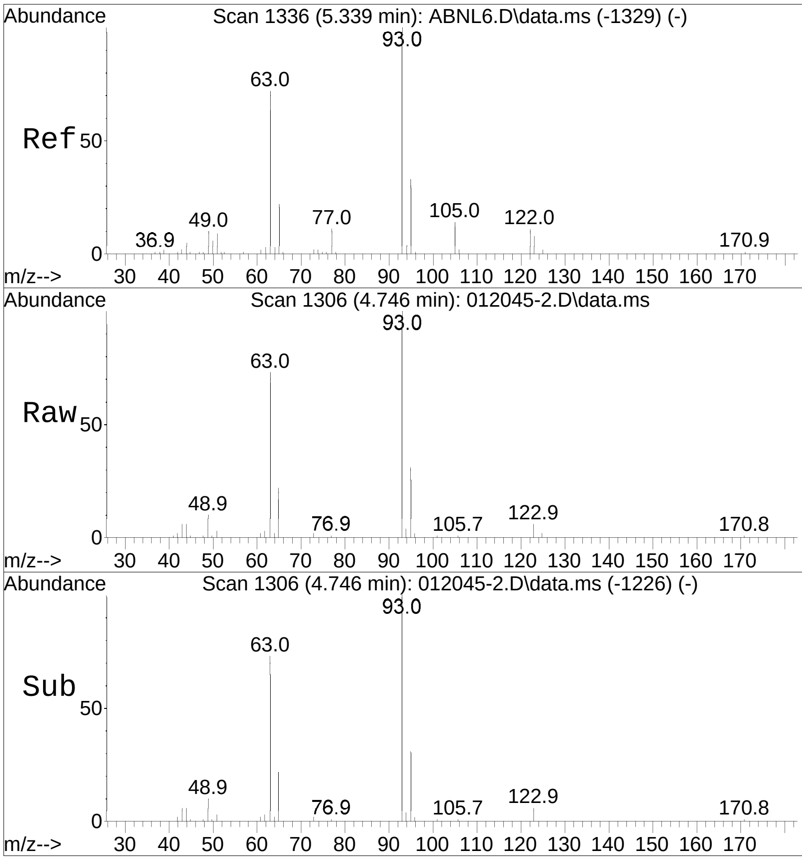



#23
2,4-Dimethylphenol
Concen: 1.01 ug/ml
RT: 4.665 min Scan# 1280
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:107 Resp: 6353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 121 | 51.7 | 40.0 | 60.0 |
| 122 | 89.7 | 70.2 | 105.4 |

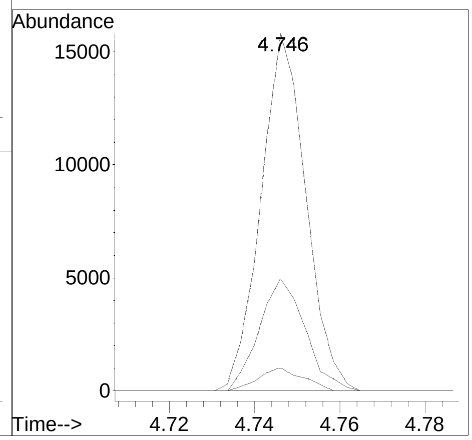


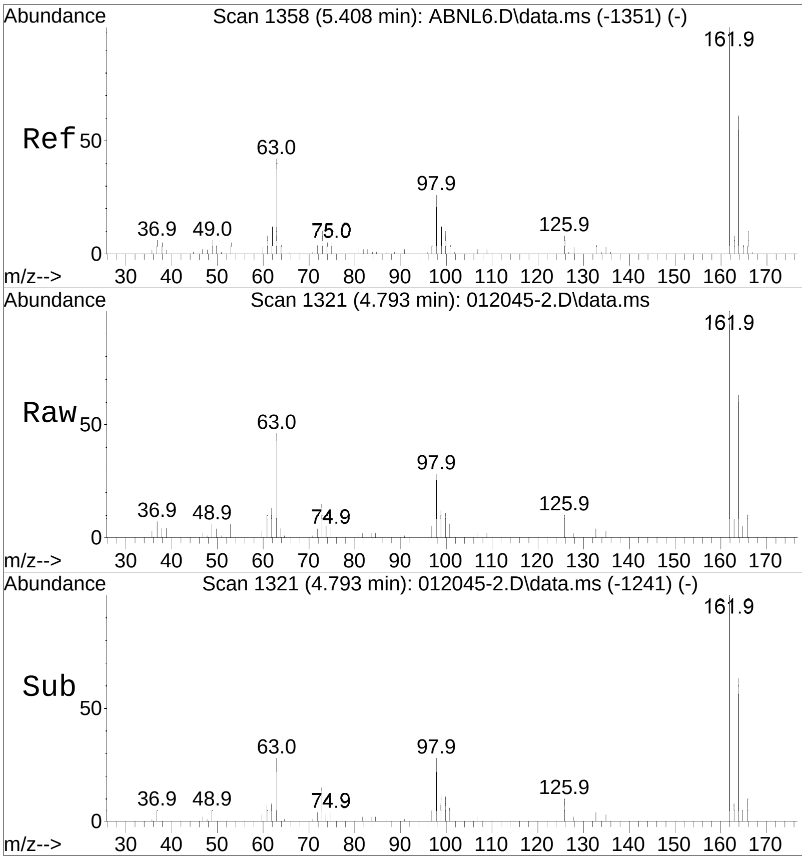



#24
Bis(2-chloroethoxy)methane
Concen: 1.45 ug/ml
RT: 4.746 min Scan# 1306
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion: 93 Resp: 11520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.1 | 25.8 | 38.8 |
| 123 | 6.4 | 10.1 | 15.1# |

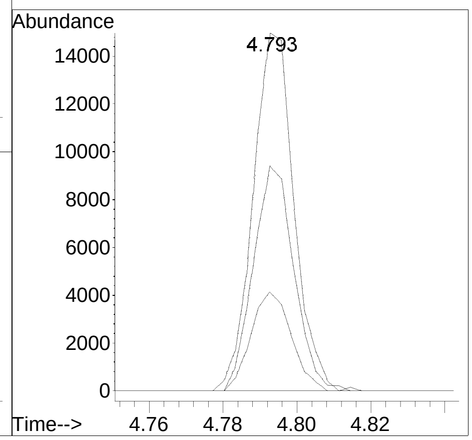


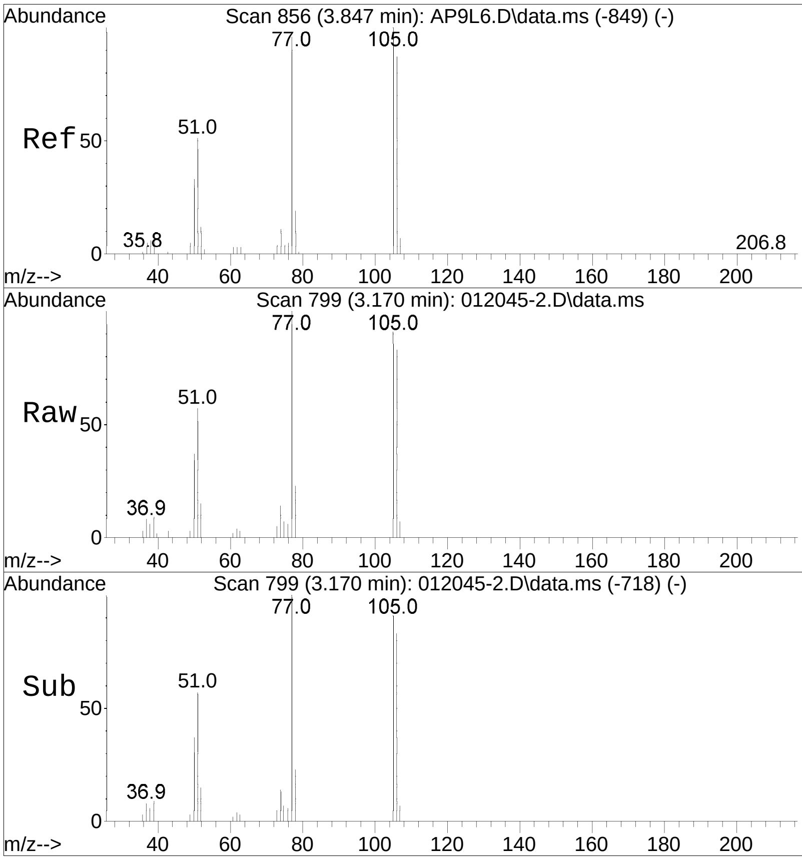



#25
2,4-Dichlorophenol
Concen: 1.57 ug/ml
RT: 4.793 min Scan# 1321
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:162 Resp: 11460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 62.6 | 51.0 | 76.4 |
| 98 | 27.3 | 32.2 | 48.2# |

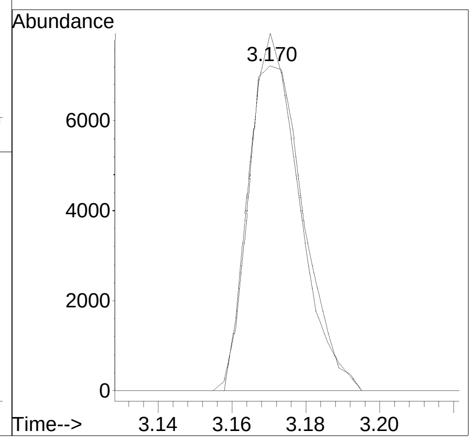


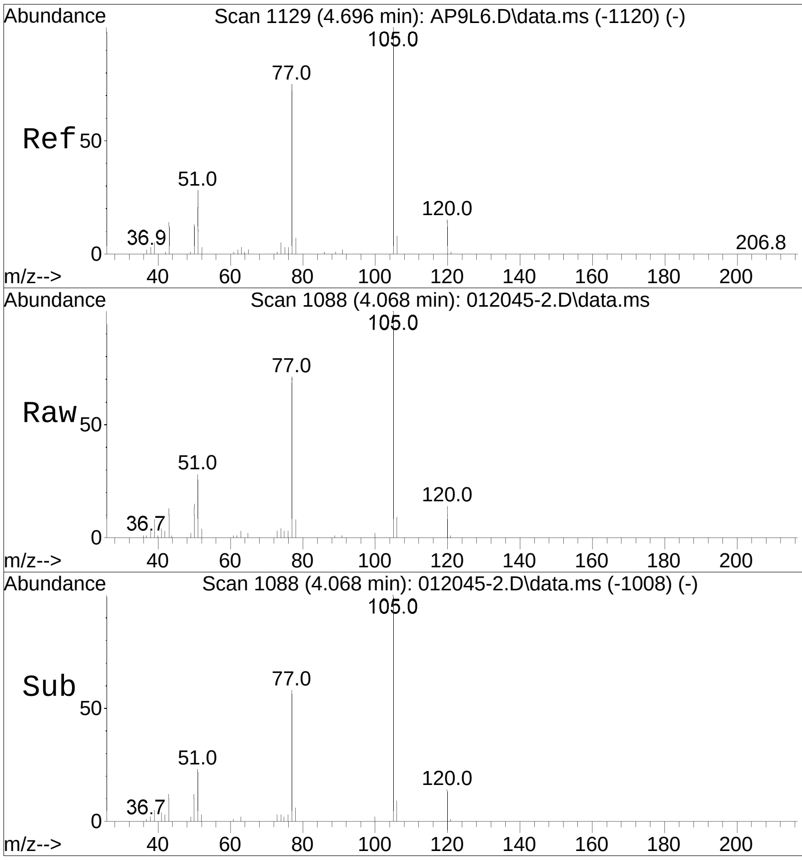



#28
Benzaldehyde
Concen: 1.91 ug/ml
RT: 3.170 min Scan# 799
Delta R.T. 0.003 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:105 Resp: 7626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 77 | 98.4 | 82.2 | 123.4 |

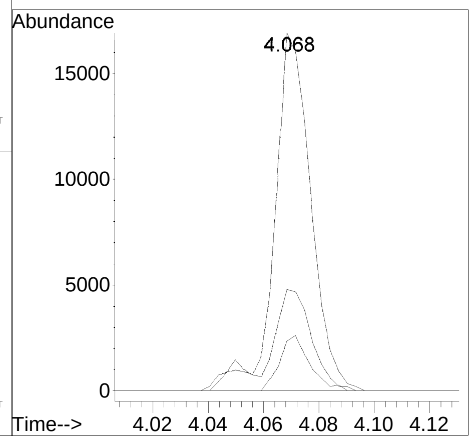


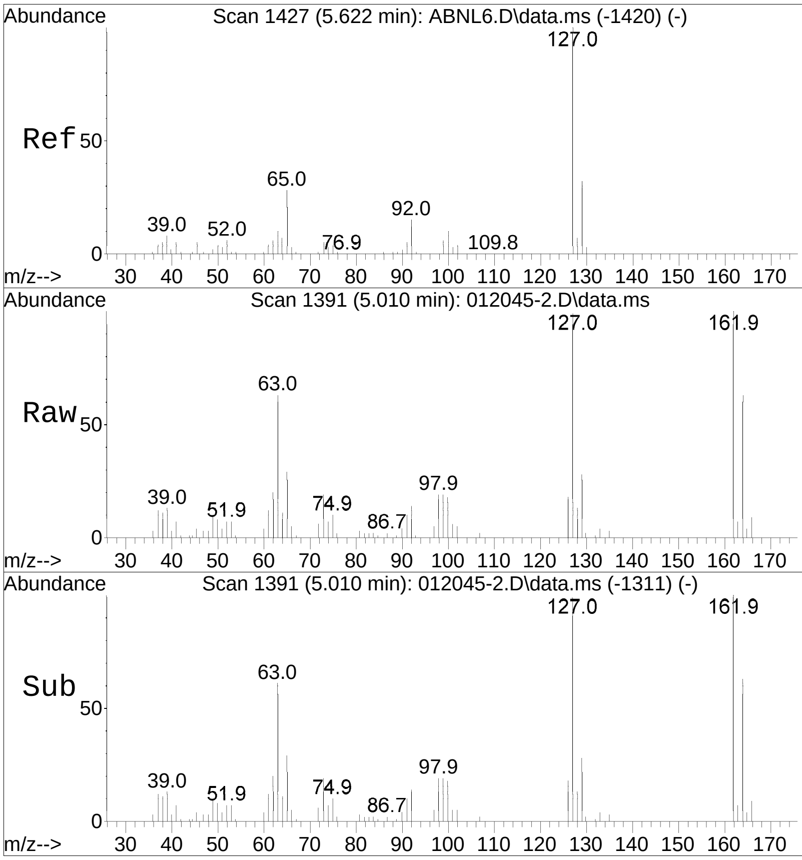



#29
Acetophenone
Concen: 1.91 ug/ml
RT: 4.068 min Scan# 1088
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:105 Resp: 15250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 12.7 | 20.5 | 30.7# |
| 51 | 27.6 | 34.9 | 52.3# |

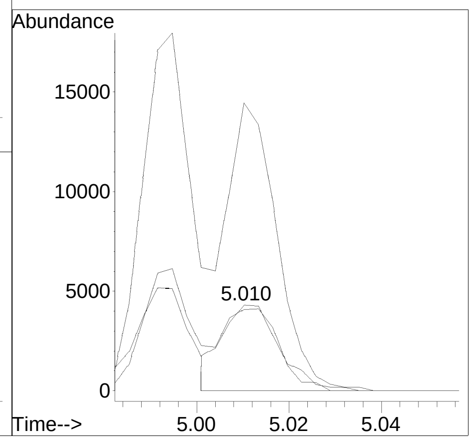


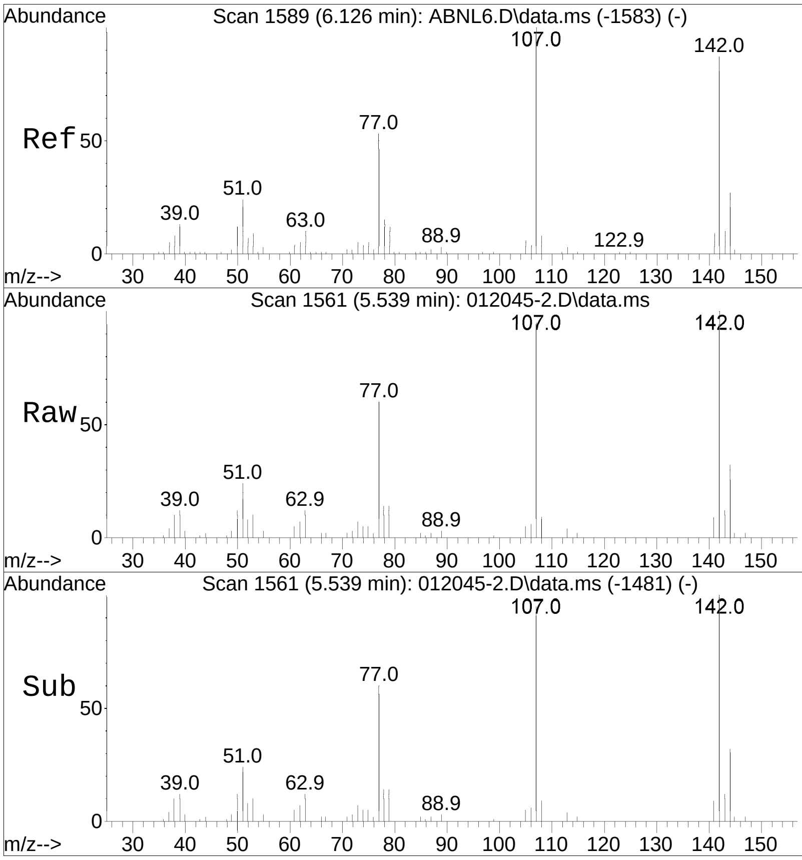



#40
4-Chloroaniline
Concen: 1.46 ug/ml
RT: 5.010 min Scan# 1391
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion: 65 Resp: 3714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 127 | 277.7 | 237.6 | 356.4 |
| 129 | 86.2 | 76.3 | 114.5 |

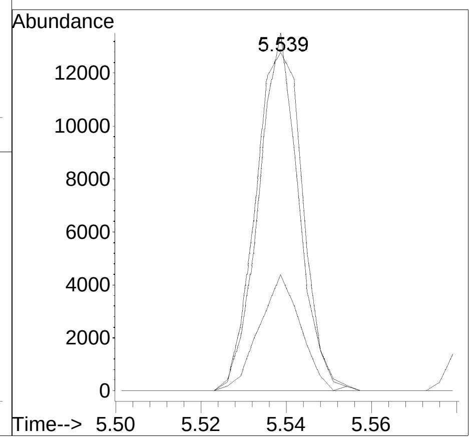


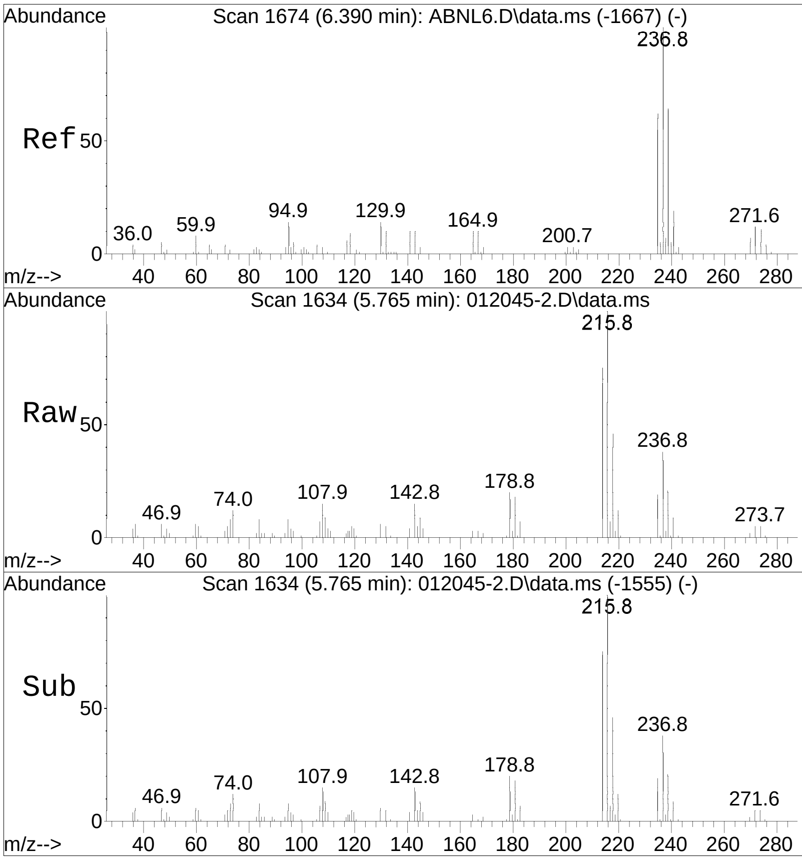



#42
p-Chloro-m-cresol
Concen: 1.62 ug/ml
RT: 5.539 min Scan# 1561
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:107 Resp: 9913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 29.9 | 20.9 | 31.3 |
| 142 | 88.8 | 66.1 | 99.1 |

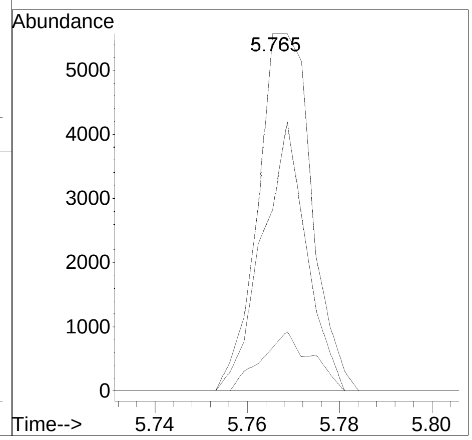


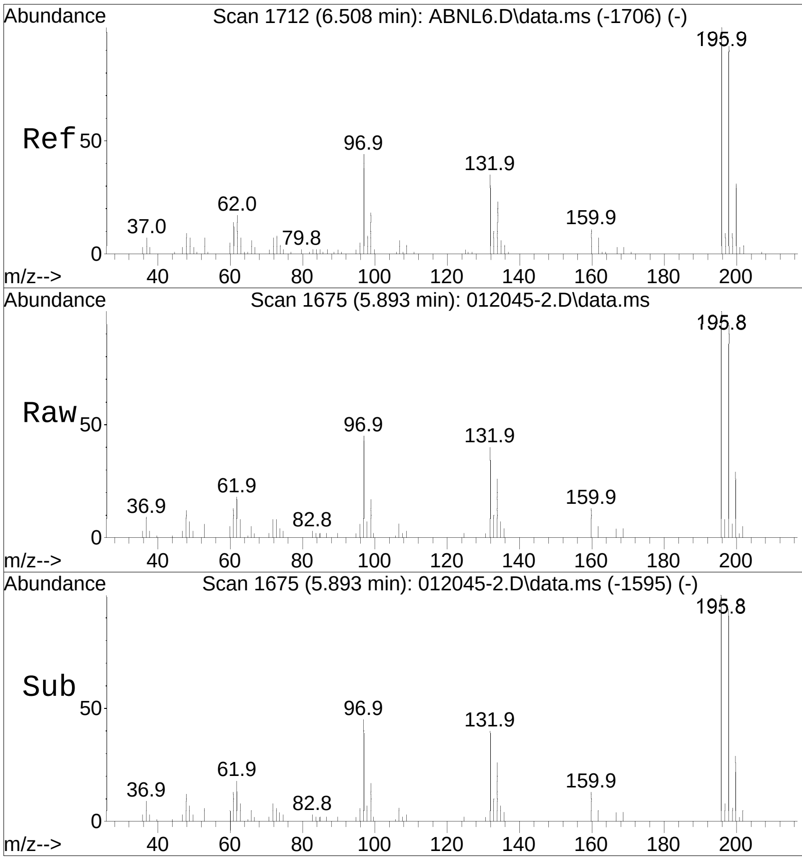



#45
Hexachlorocyclopentadiene
Concen: 0.78 ug/ml
RT: 5.765 min Scan# 1634
Delta R.T. -0.003 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:237 Resp: 4505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 62.0 | 49.7 | 74.5 |
| 272 | 15.2 | 9.8 | 14.6# |

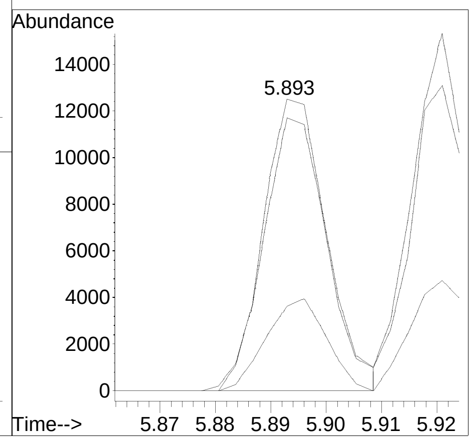


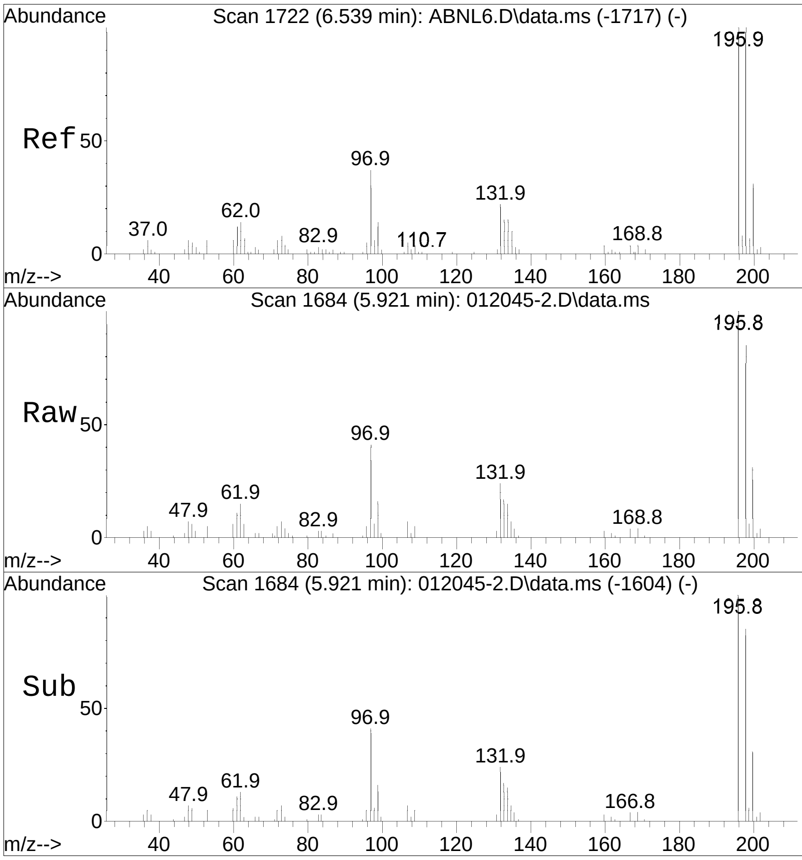



#46
2,4,6-Trichlorophenol
Concen: 1.64 ug/ml
RT: 5.893 min Scan# 1675
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:196 Resp: 9914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 94.1 | 77.5 | 116.3 |
| 200 | 30.1 | 23.8 | 35.6 |

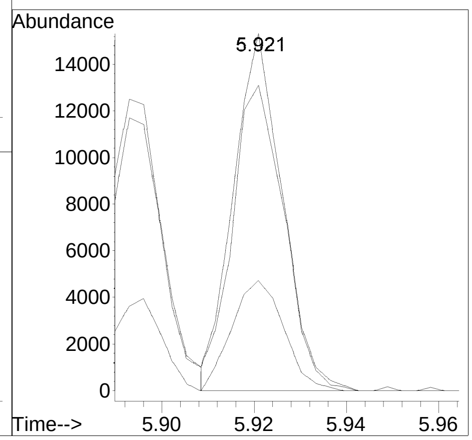


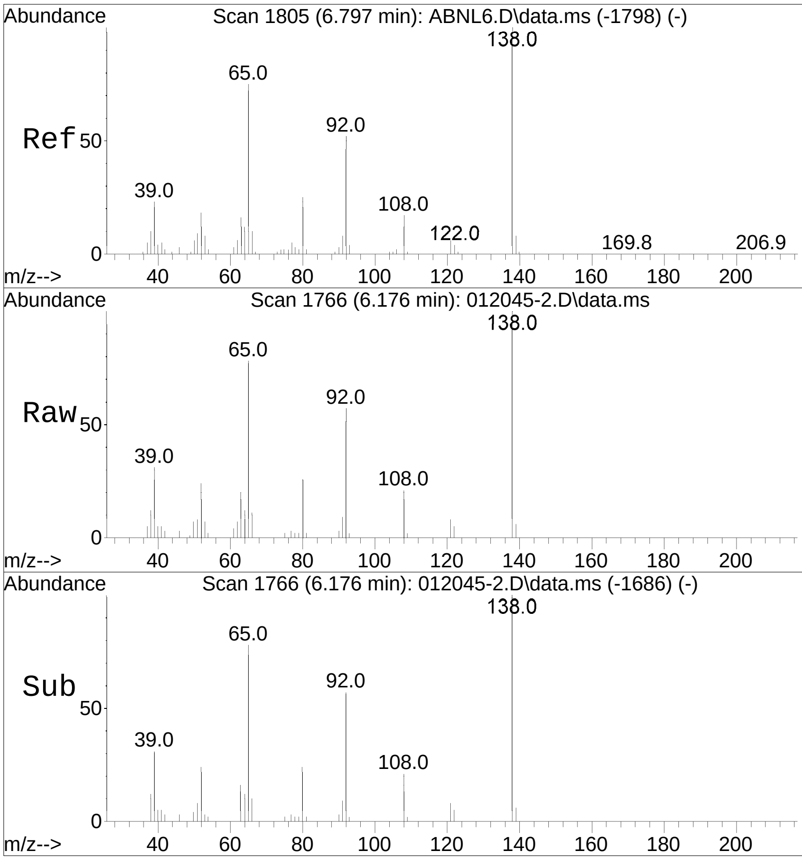



#47
2,4,5-Trichlorophenol
Concen: 1.67 ug/ml
RT: 5.921 min Scan# 1684
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:196 Resp: 11310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 200 | 32.8 | 25.4 | 38.0 |
| 198 | 89.9 | 78.0 | 117.0 |

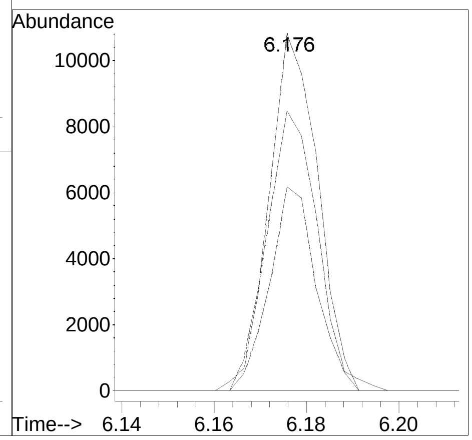


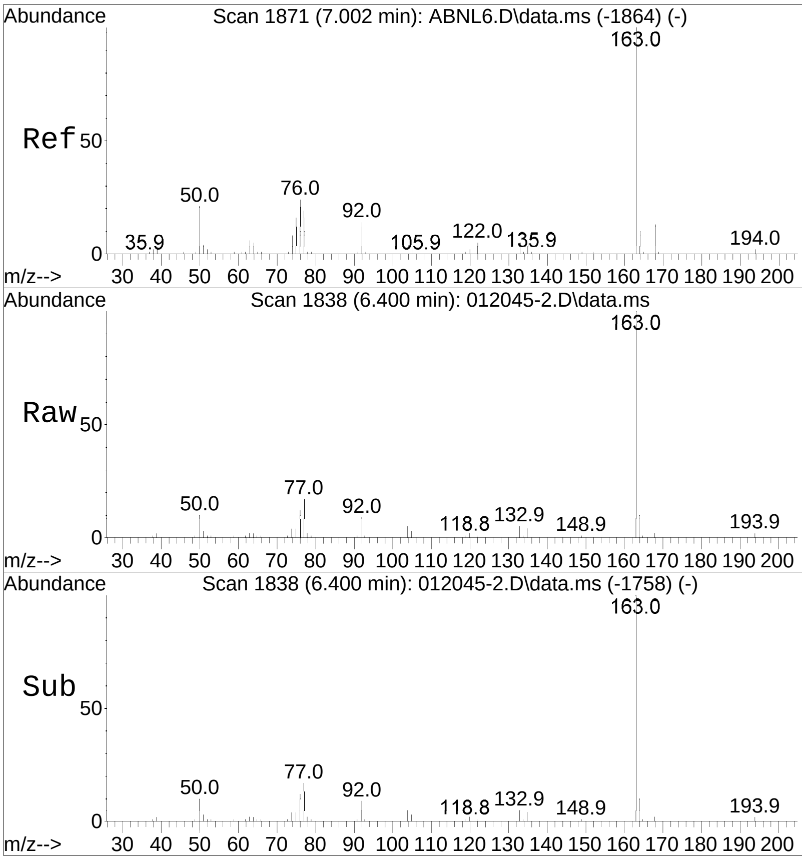



#50
2-Nitroaniline
Concen: 1.72 ug/ml
RT: 6.176 min Scan# 1766
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:138 Resp: 7906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 54.8 | 53.5 | 80.3 |
| 65 | 81.9 | 86.3 | 129.5# |

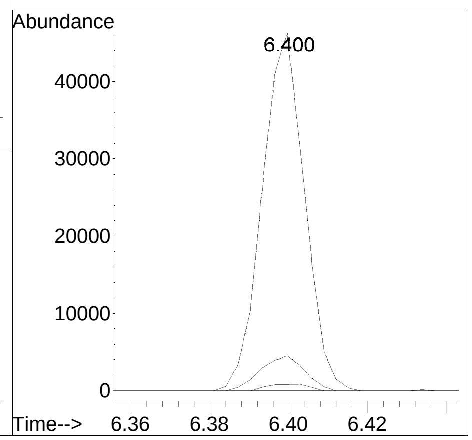


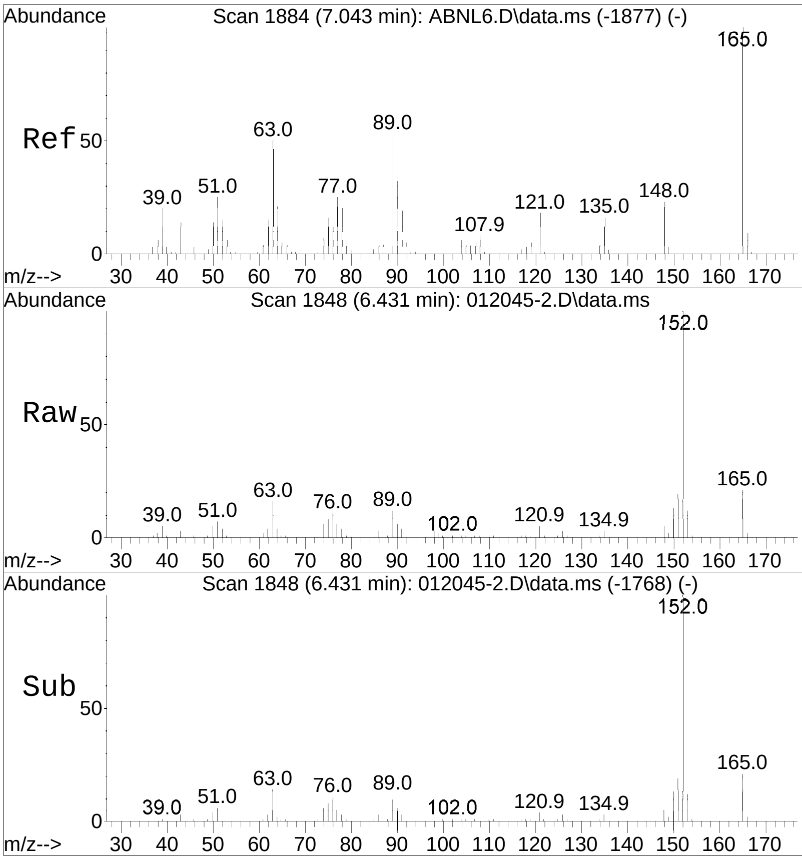



#53
Dimethyl phthalate
Concen: 1.63 ug/ml
RT: 6.400 min Scan# 1838
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:163 Resp: 34129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 1.8 | 3.5 | 5.3# |
| 164 | 10.2 | 7.9 | 11.9 |

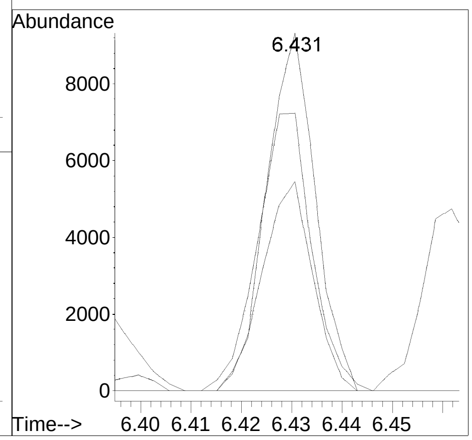


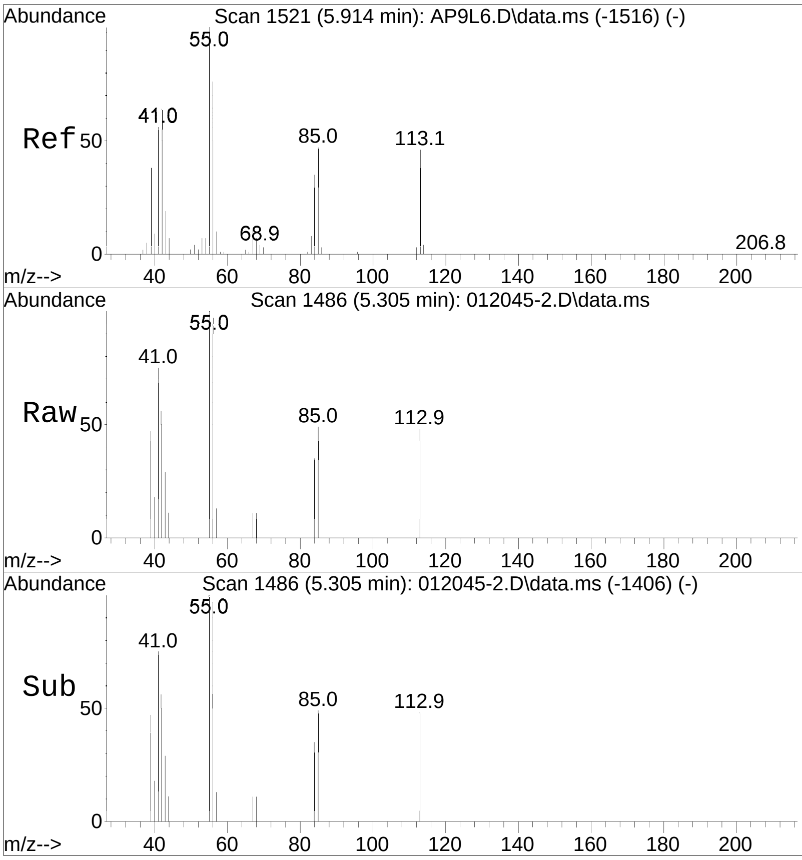



#55
2,6-Dinitrotoluene
Concen: 1.61 ug/ml
RT: 6.431 min Scan# 1848
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:165 Resp: 6302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 60.6 | 54.2 | 81.2 |
| 63 | 86.1 | 64.2 | 96.2 |

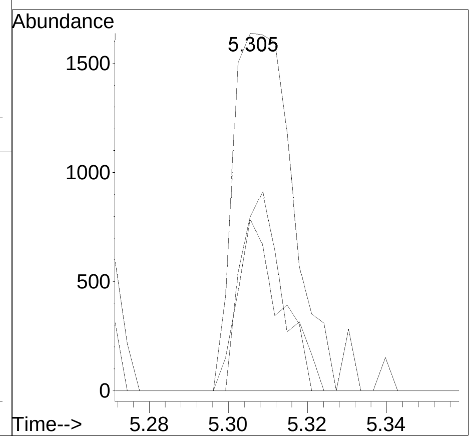


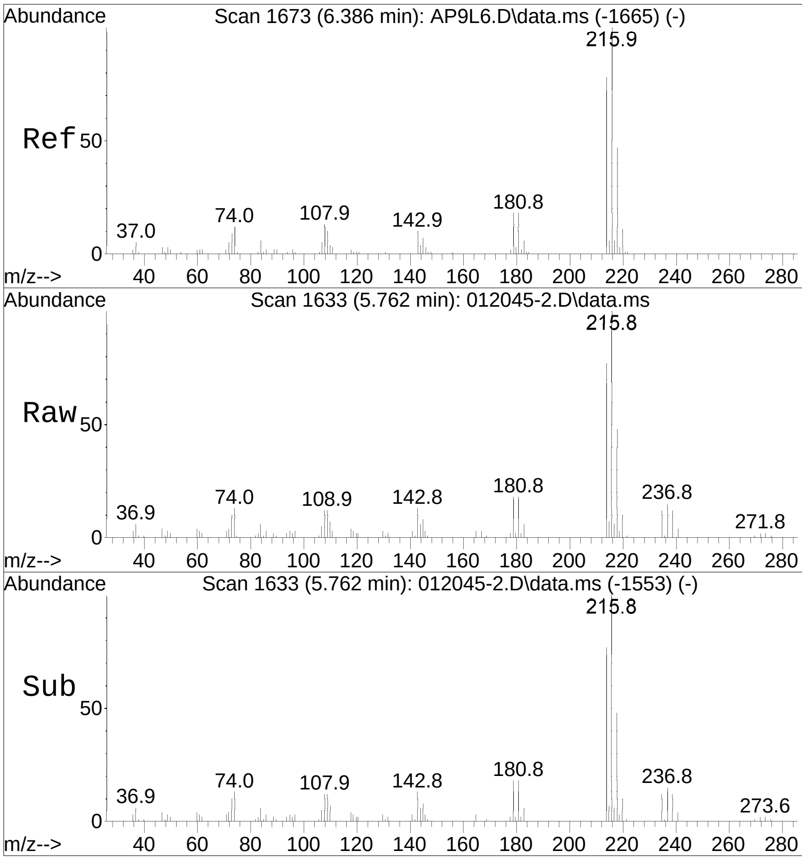



#62
Caprolactam
Concen: 0.68 ug/ml
RT: 5.305 min Scan# 1486
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion: 55 Resp: 1769

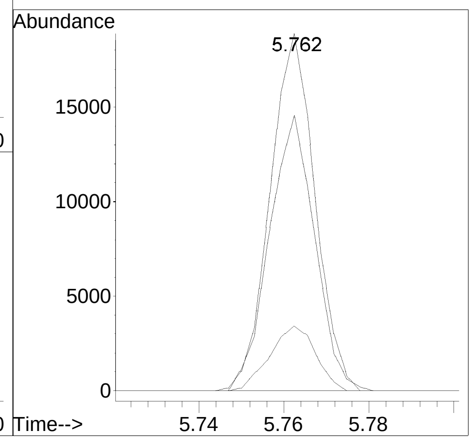
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 55 | 100 | | |
| 85 | 38.4 | 19.8 | 29.6# |
| 113 | 32.7 | 29.6 | 44.4 |

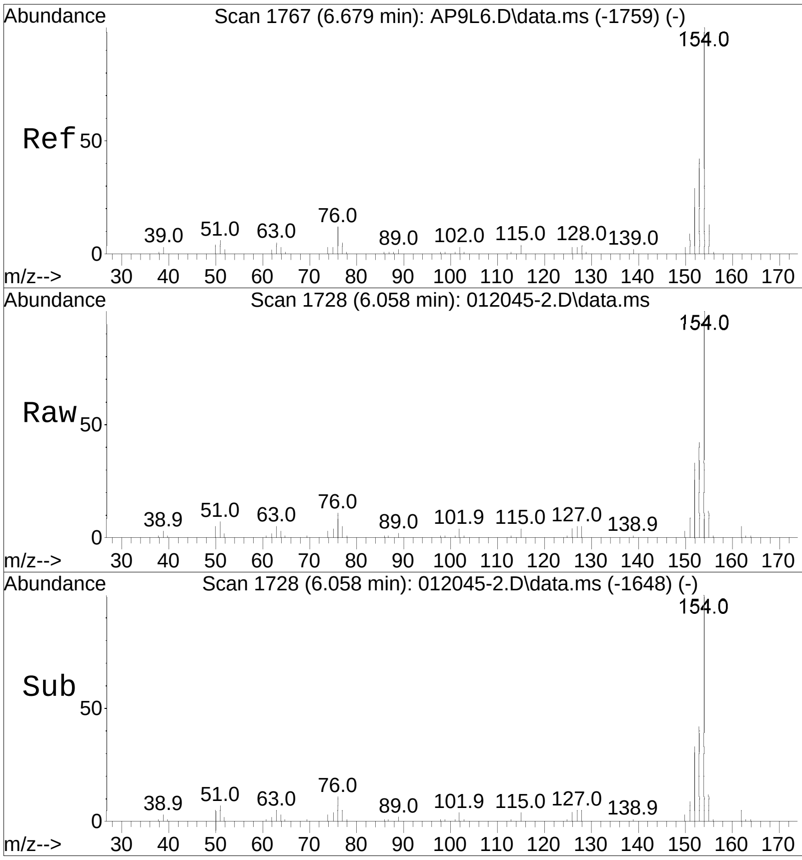





#63
1,2,4,5-Tetrachlorobenzene
Concen: 1.59 ug/ml
RT: 5.762 min Scan# 1633
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

| Tgt Ion:216 | Resp: | | 13833 |
|---|---|---|---|
| Ion | Ratio | Lower | Upper |
| 216 | 100 | | |
| 214 | 78.3 | 63.7 | 95.5 |
| 179 | 18.5 | 19.0 | 28.6# |

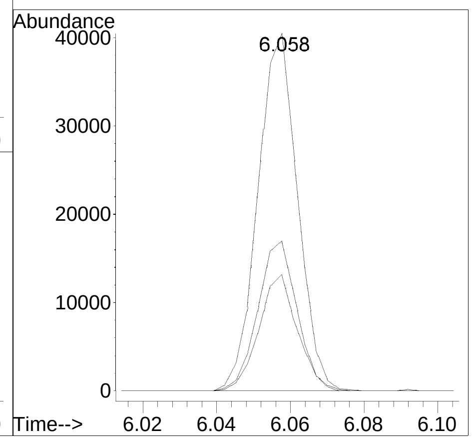


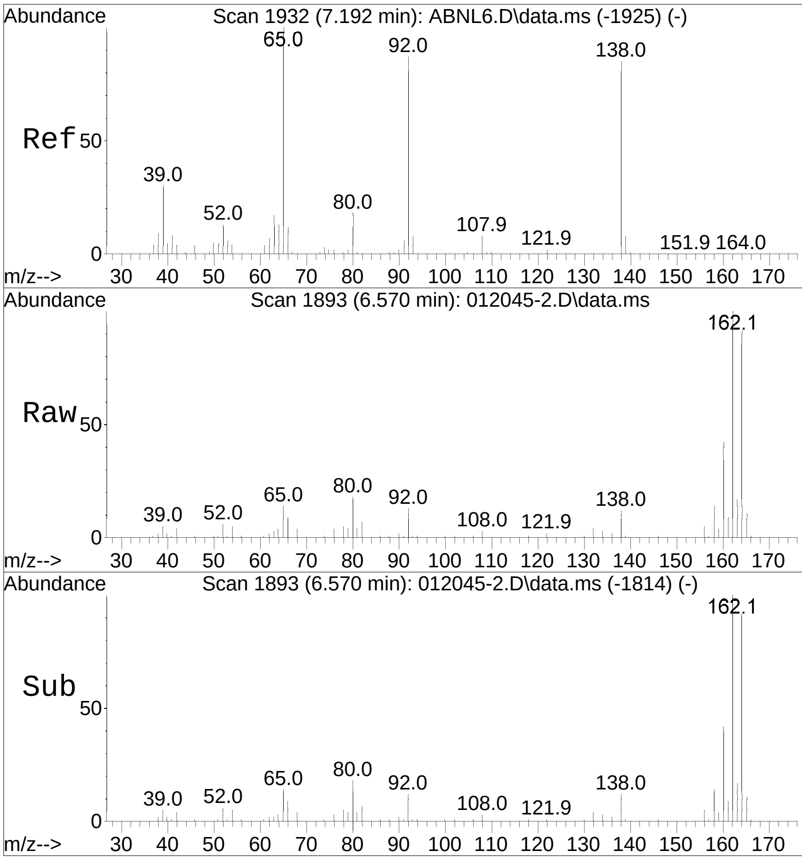



#64
Biphenyl
Concen: 1.70 ug/ml
RT: 6.058 min Scan# 1728
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:154 Resp: 30189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 41.4 | 32.3 | 48.5 |
| 152 | 31.5 | 22.5 | 33.7 |

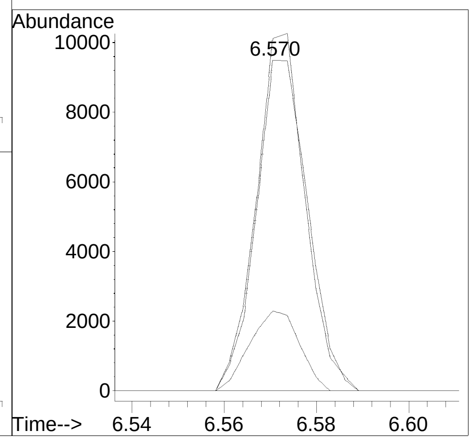


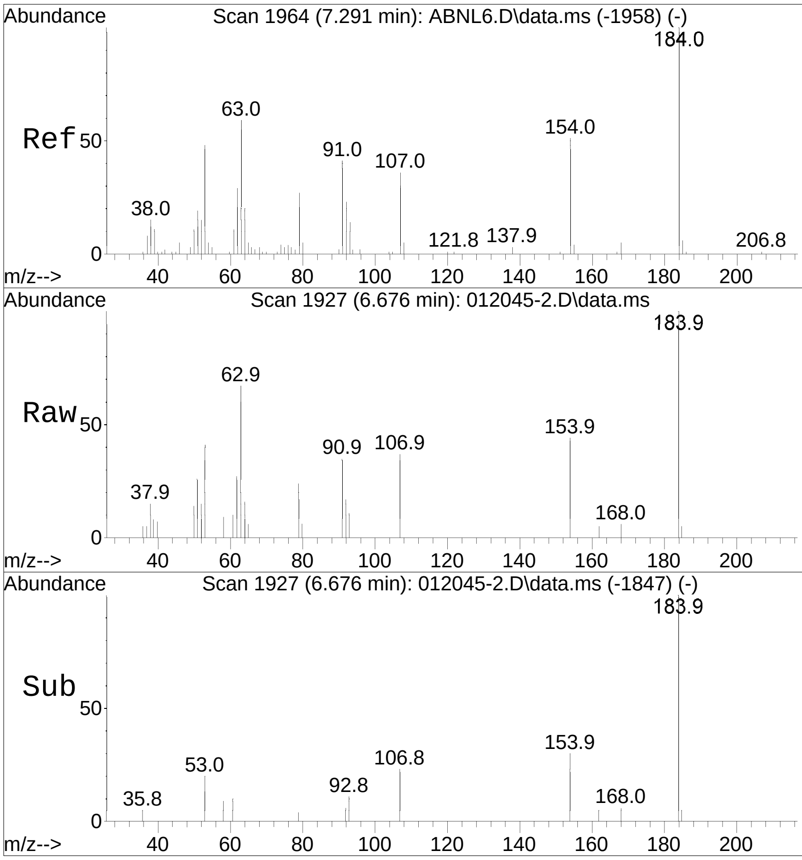



#66
3-Nitroaniline
Concen: 1.64 ug/ml
RT: 6.570 min Scan# 1893
Delta R.T. -0.003 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:138 Resp: 7326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 102.8 | 93.4 | 140.2 |
| 108 | 23.4 | 9.5 | 14.3# |

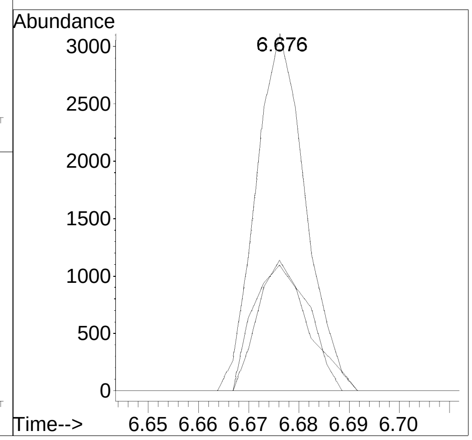


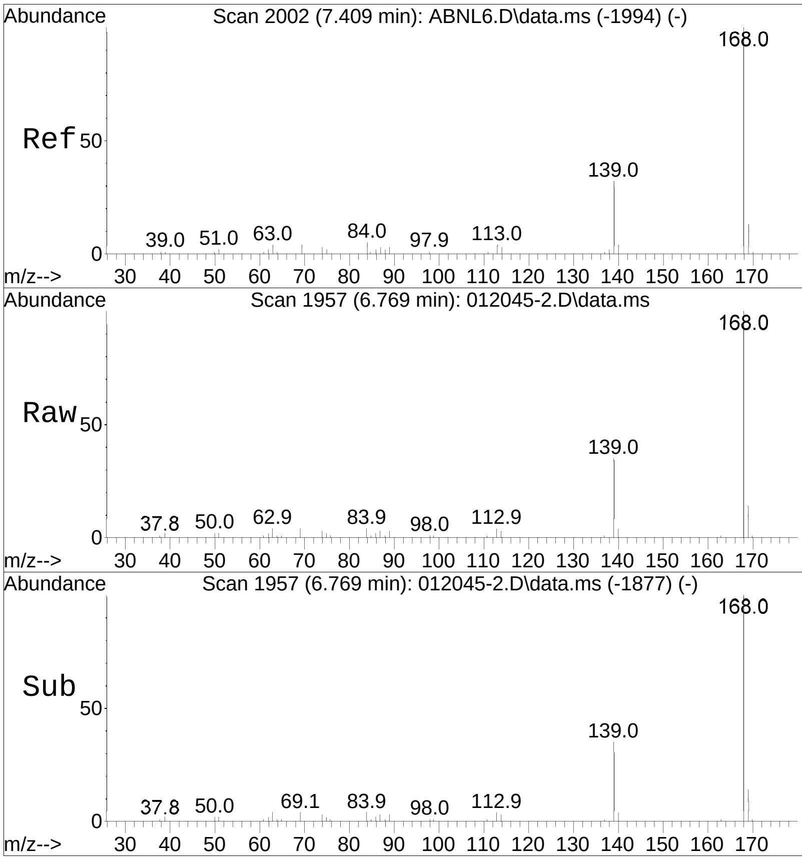



#68
2,4-Dinitrophenol
Concen: 0.79 ug/ml
RT: 6.676 min Scan# 1927
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:184 Resp: 2134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 107 | 37.2 | 37.7 | 56.5# |
| 91 | 39.6 | 46.3 | 69.5# |

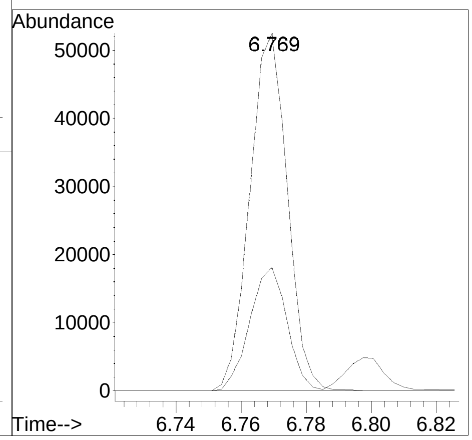


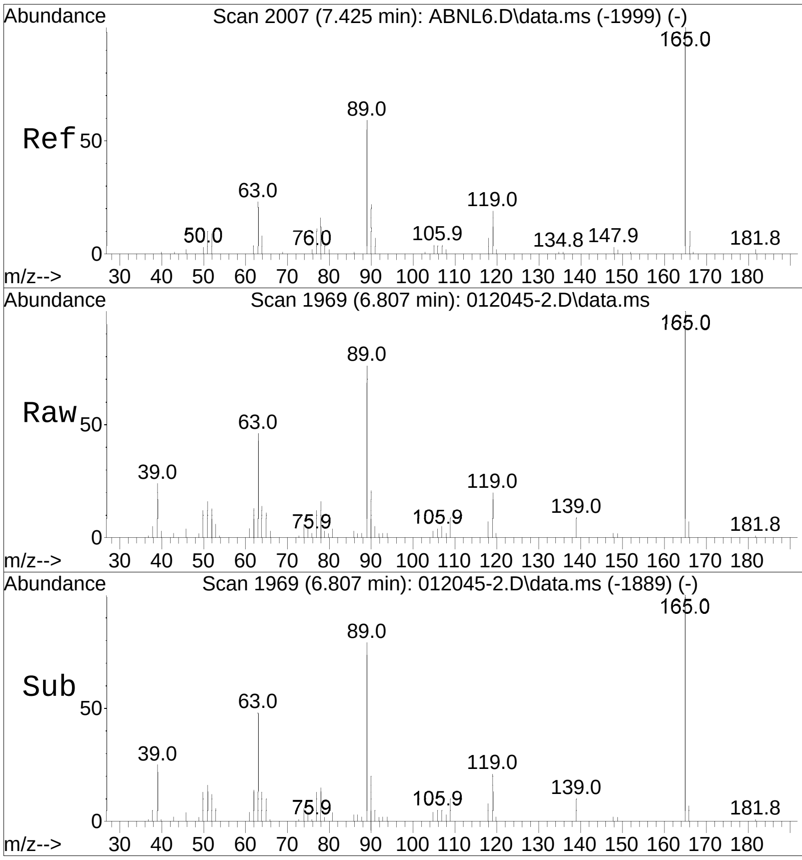



#69
Dibenzofuran
Concen: 1.44 ug/ml
RT: 6.769 min Scan# 1957
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:168 Resp: 41748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 34.4 | 31.4 | 47.2 |

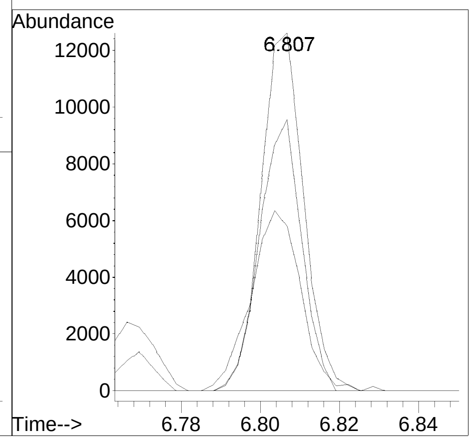


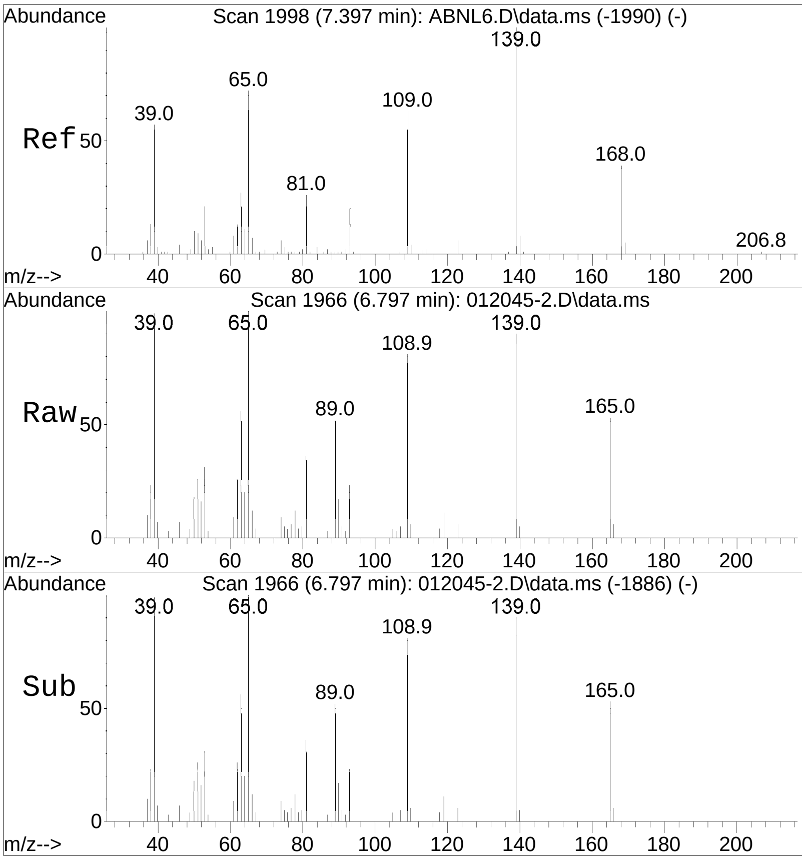



#70
2,4-Dinitrotoluene
Concen: 1.70 ug/ml
RT: 6.807 min Scan# 1969
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:165 Resp: 9480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 74.5 | 72.0 | 108.0 |
| 63 | 58.9 | 52.7 | 79.1 |

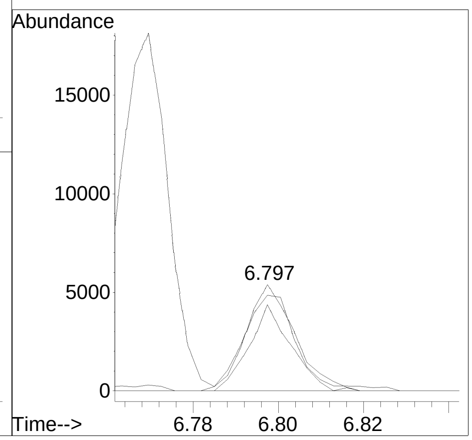


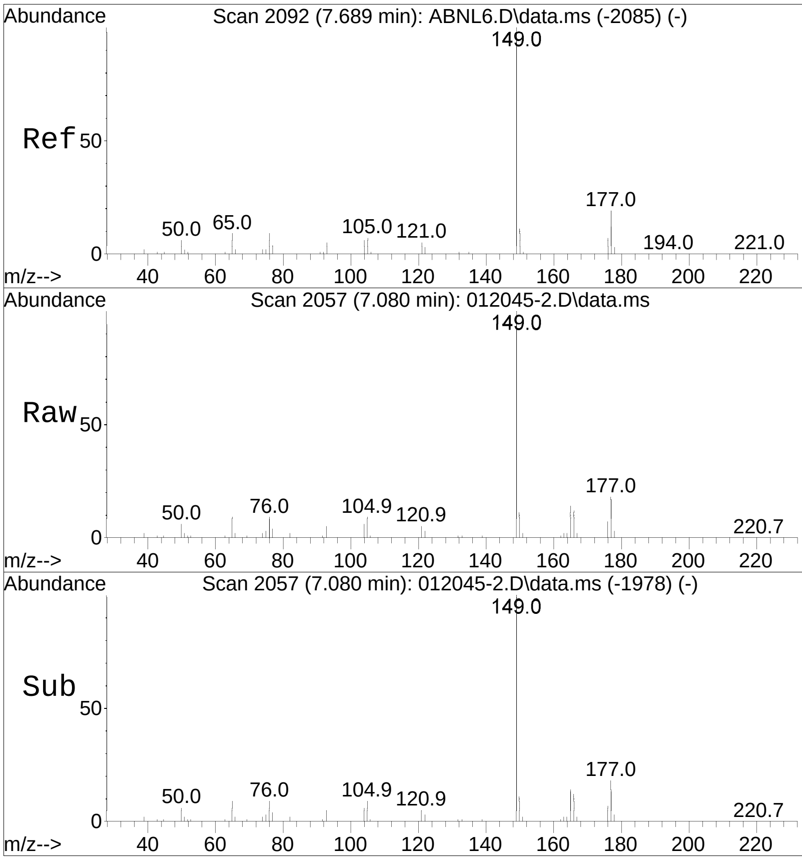



#71
4-Nitrophenol
Concen: 1.29 ug/ml
RT: 6.797 min Scan# 1966
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion: 65 Resp: 4302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 109 | 69.5 | 47.4 | 71.2 |
| 139 | 97.0 | 76.6 | 115.0 |

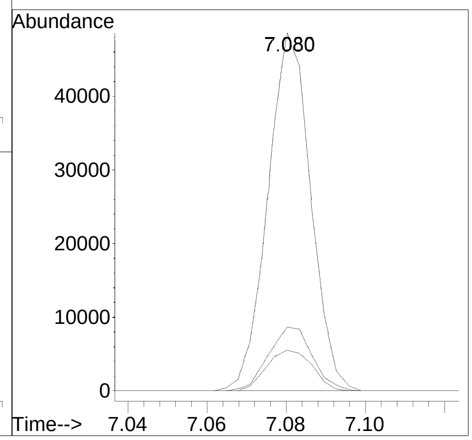


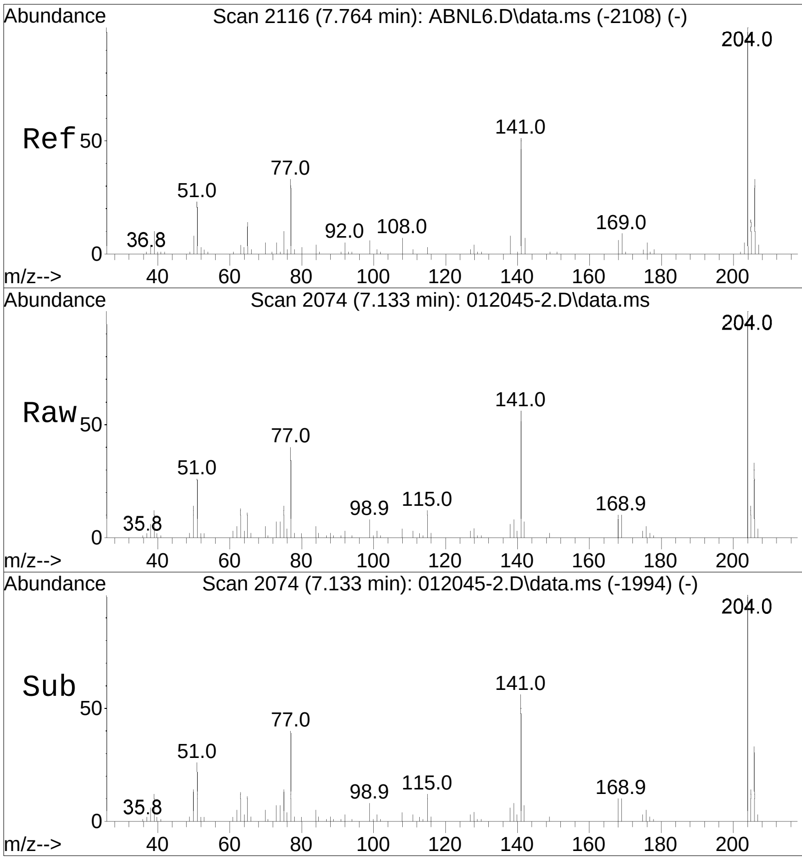



#74
Diethyl phthalate
Concen: 1.60 ug/ml
RT: 7.080 min Scan# 2057
Delta R.T. -0.003 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:149 Resp: 36372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 18.3 | 16.1 | 24.1 |
| 150 | 12.1 | 9.4 | 14.2 |

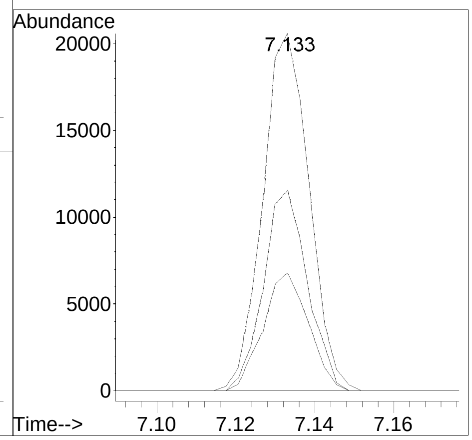


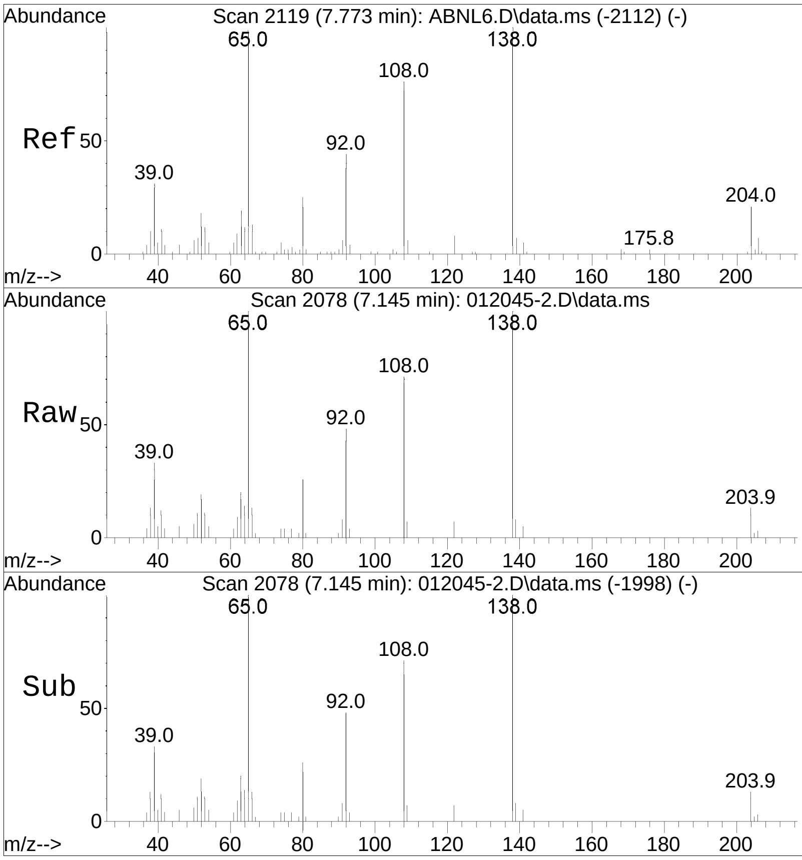



#76
4-Chlorophenyl phenyl ether
Concen: 1.46 ug/ml
RT: 7.133 min Scan# 2074
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:204 Resp: 16728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 32.4 | 25.8 | 38.6 |
| 141 | 53.3 | 53.6 | 80.4# |

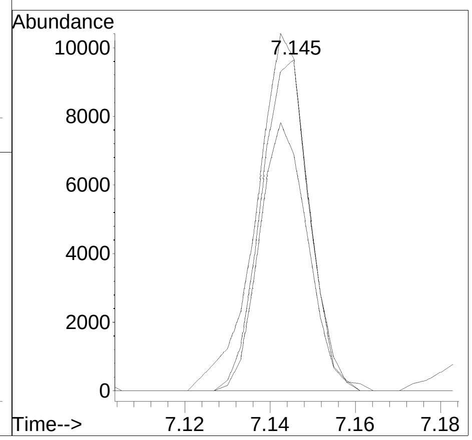


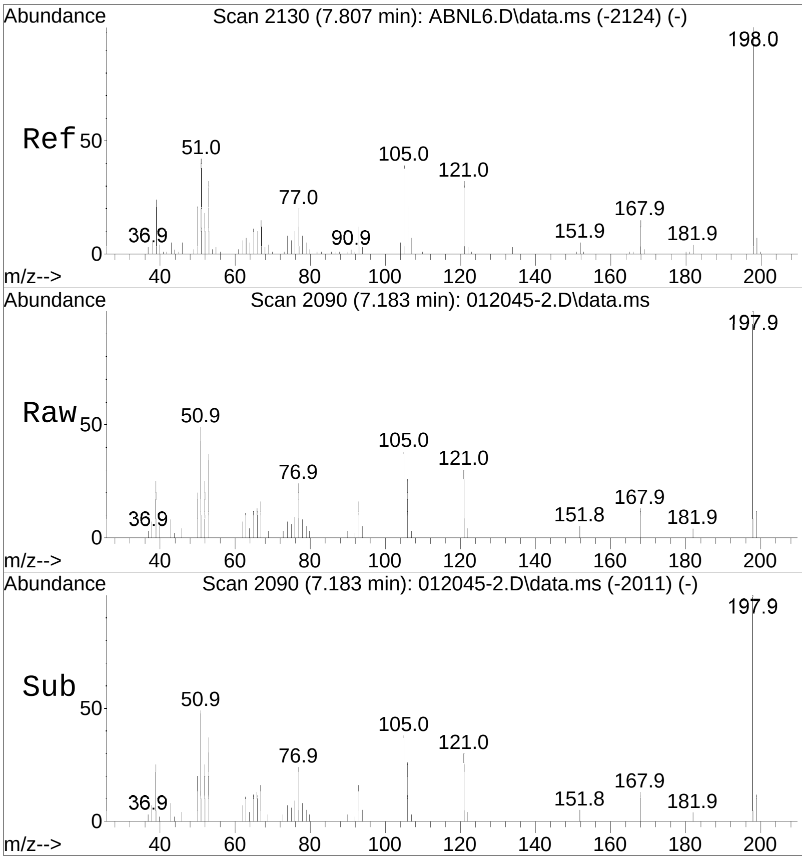



#77
4-Nitroaniline
Concen: 1.78 ug/ml
RT: 7.145 min Scan# 2078
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:138 Resp: 7695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 80.3 | 52.1 | 78.1# |
| 65 | 114.2 | 115.0 | 172.6# |

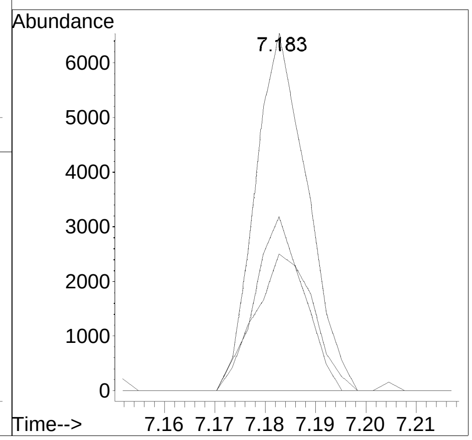


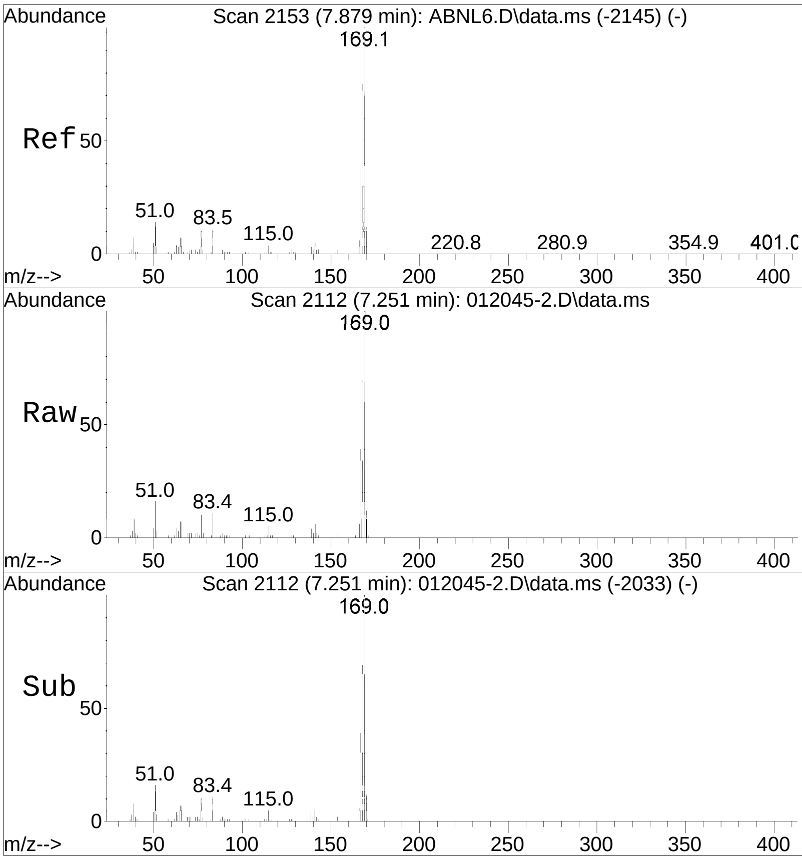



#78
4,6-Dinitro-o-cresol
Concen: 1.39 ug/ml
RT: 7.183 min Scan# 2090
Delta R.T. -0.003 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:198 Resp: 4700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 49.1 | 76.0 | 114.0# |
| 105 | 39.7 | 45.6 | 68.4# |

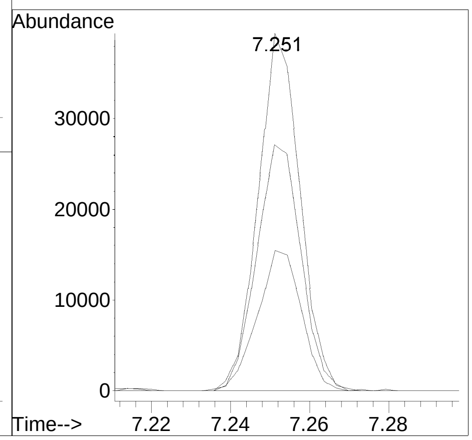


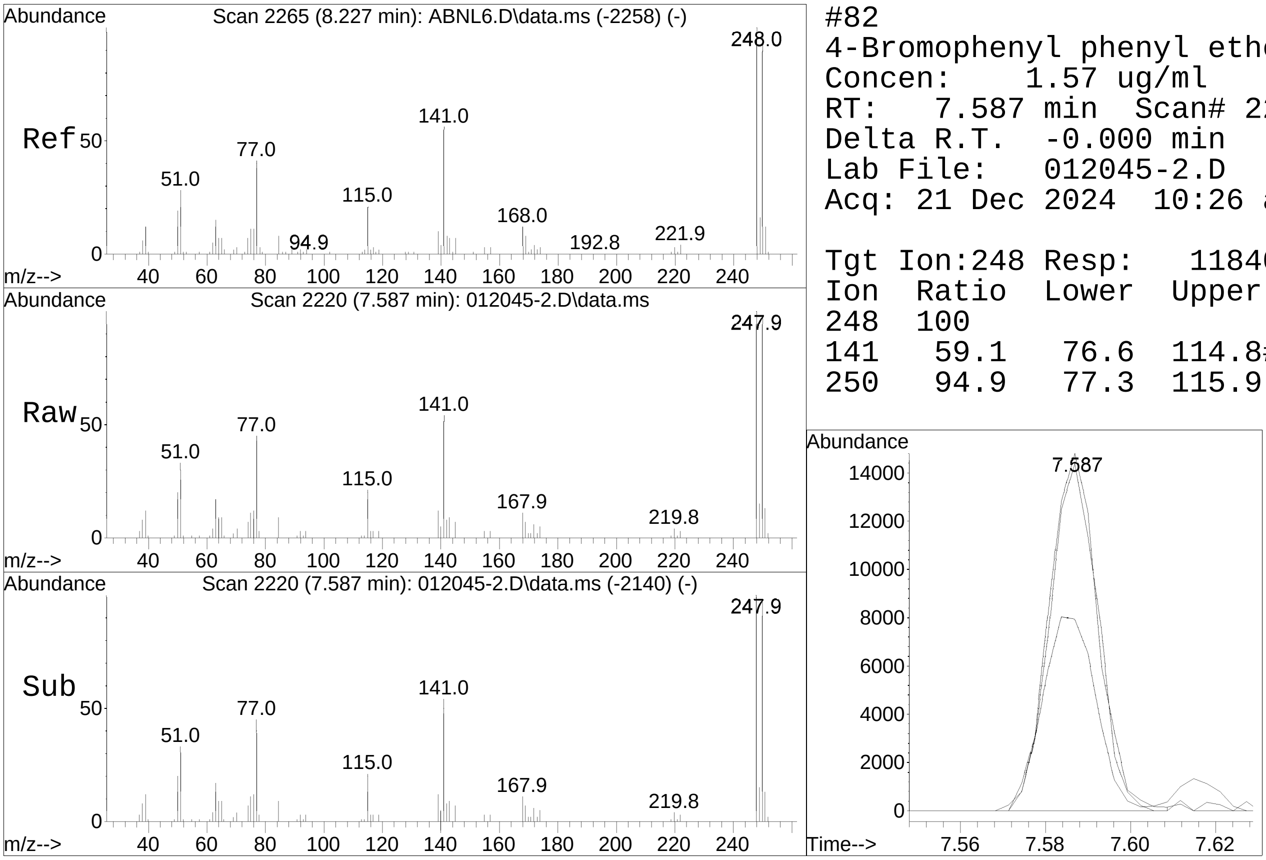



#79
NDPA/DPA
Concen: 1.50 ug/ml
RT: 7.251 min Scan# 2112
Delta R.T. -0.003 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:169 Resp: 29019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 73.2 | 54.0 | 81.0 |
| 167 | 41.4 | 28.6 | 42.8 |

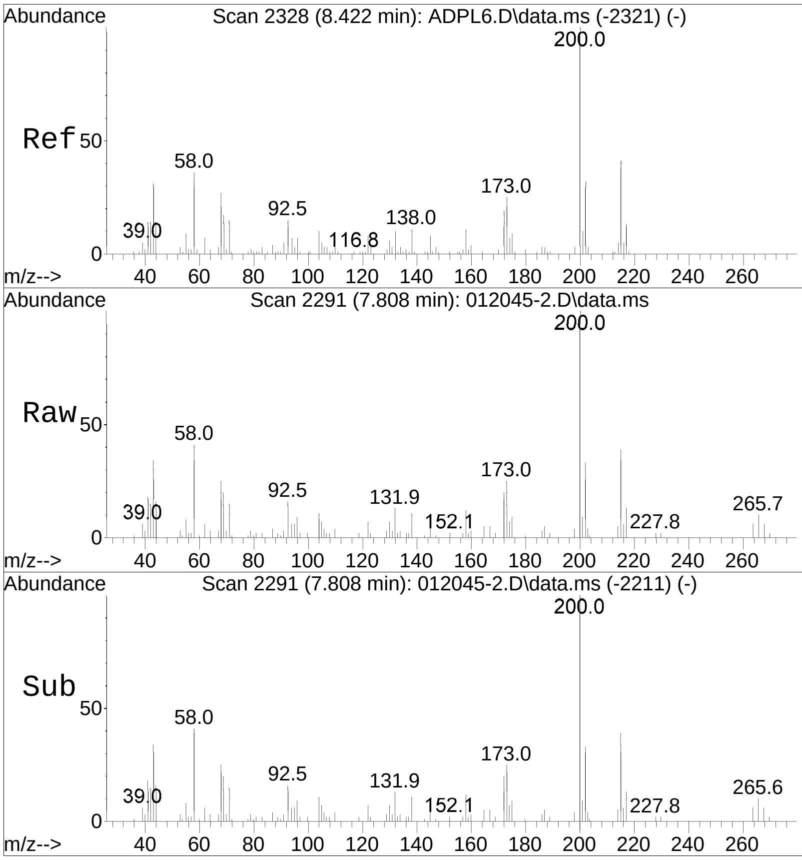





#82
4-Bromophenyl phenyl ether
Concen: 1.57 ug/ml
RT: 7.587 min Scan# 2220
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:248 Resp: 11840

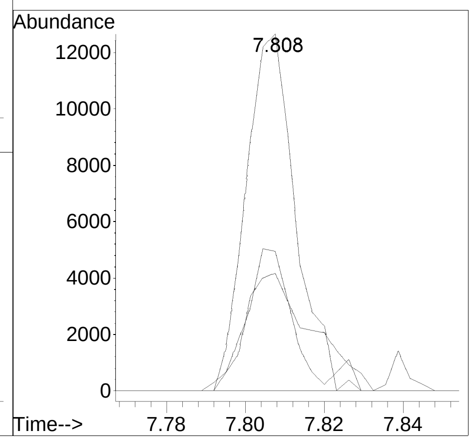
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 141 | 59.1 | 76.6 | 114.8# |
| 250 | 94.9 | 77.3 | 115.9 |

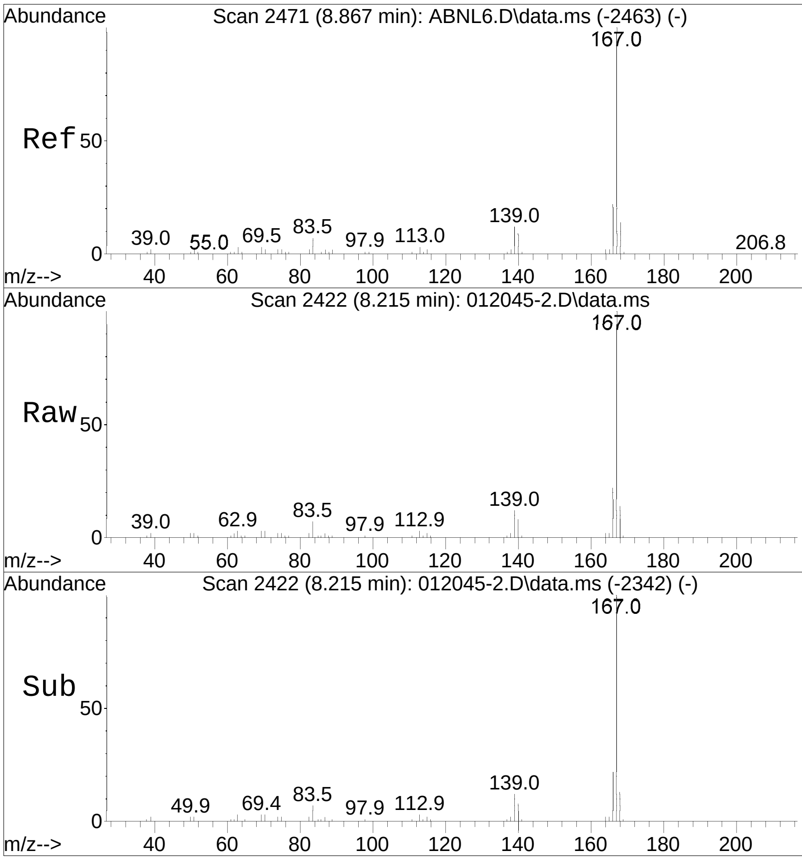



#89
Atrazine
Concen: 2.22 ug/ml
RT: 7.808 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:200 Resp: 11007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 202 | 44.2 | 25.8 | 38.6# |
| 215 | 36.1 | 40.2 | 60.4# |

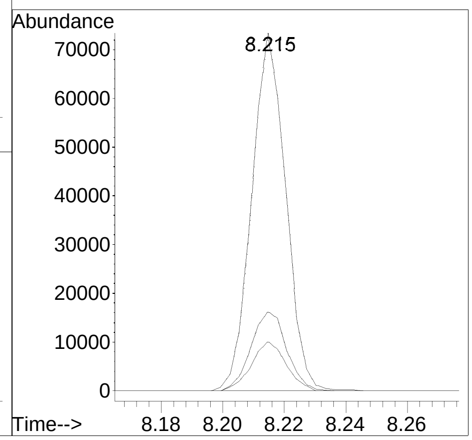


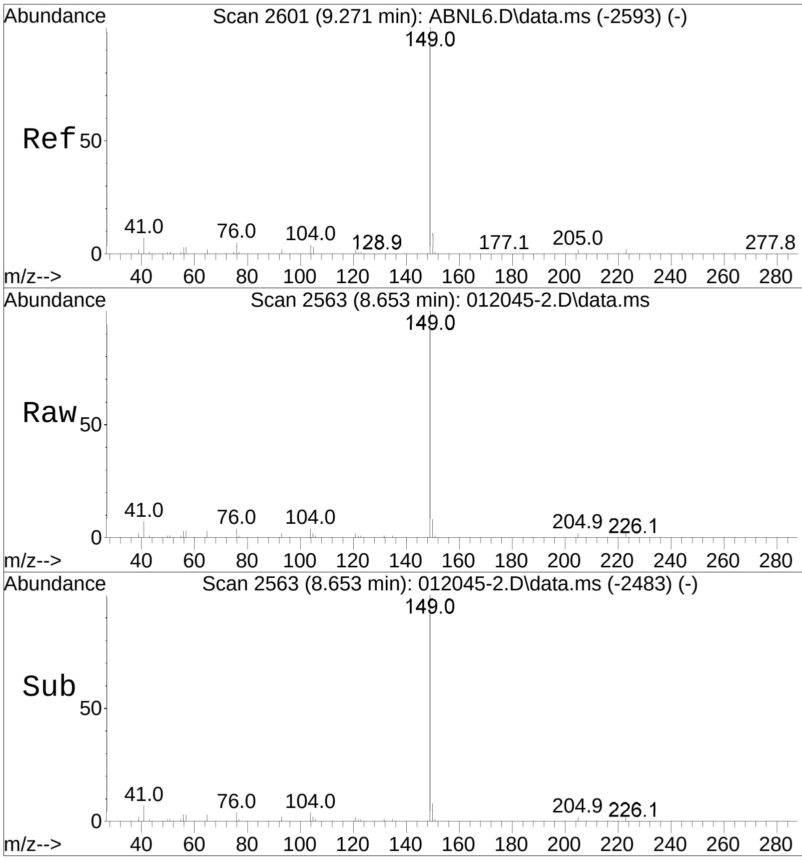



#93
Carbazole
Concen: 1.58 ug/ml
RT: 8.215 min Scan# 2422
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:167 Resp: 55810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 168 | 14.1 | 10.6 | 15.8 |
| 166 | 23.3 | 17.4 | 26.0 |

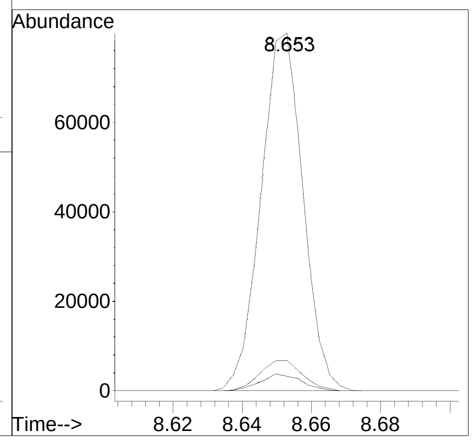


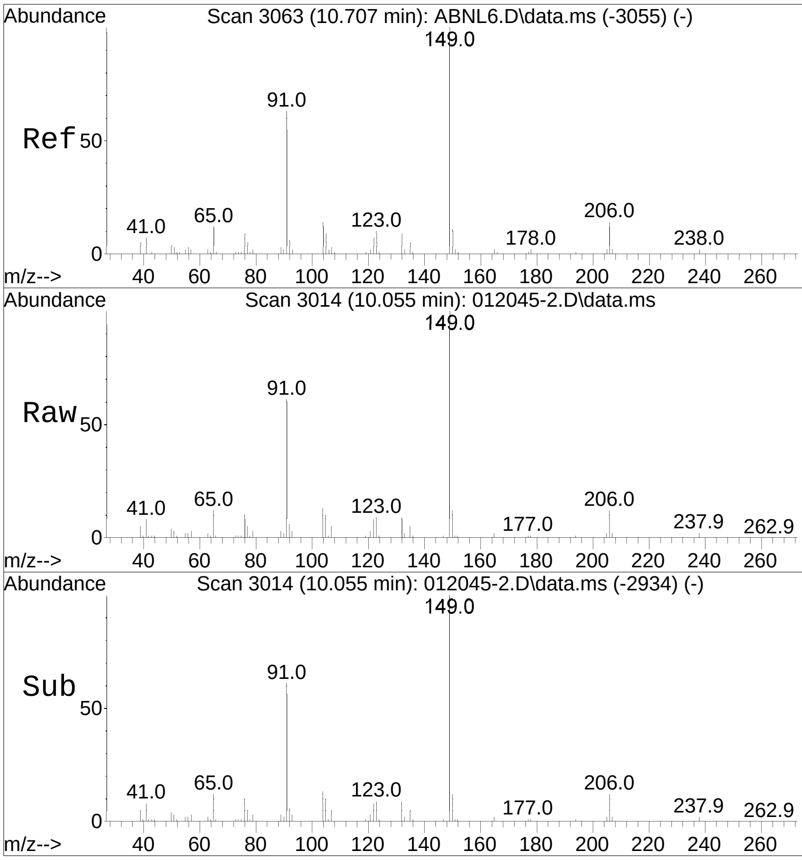



#94
Di-n-butylphthalate
Concen: 1.67 ug/ml
RT: 8.653 min Scan# 2563
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:149 Resp: 67051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 8.7 | 7.0 | 10.6 |
| 104 | 4.6 | 4.5 | 6.7 |

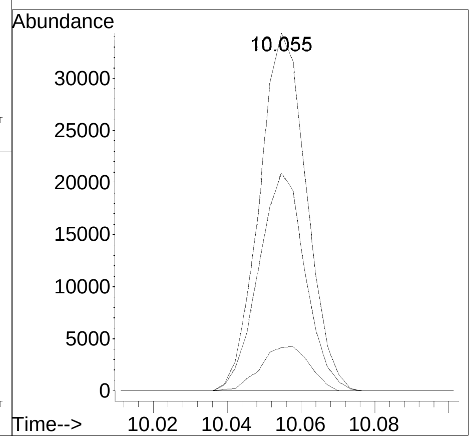


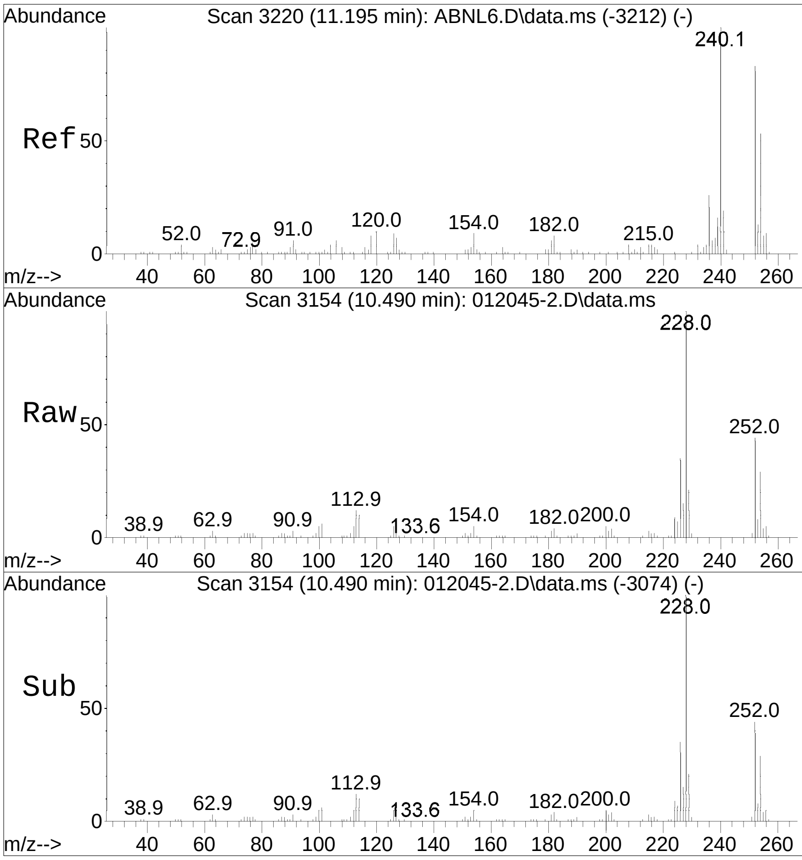



#99
Butyl benzyl phthalate
Concen: 1.76 ug/ml
RT: 10.055 min Scan# 3014
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:149 Resp: 30323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 60.6 | 63.3 | 94.9# |
| 206 | 13.0 | 13.9 | 20.9# |

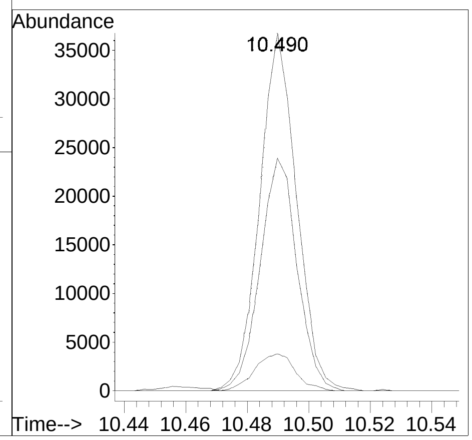


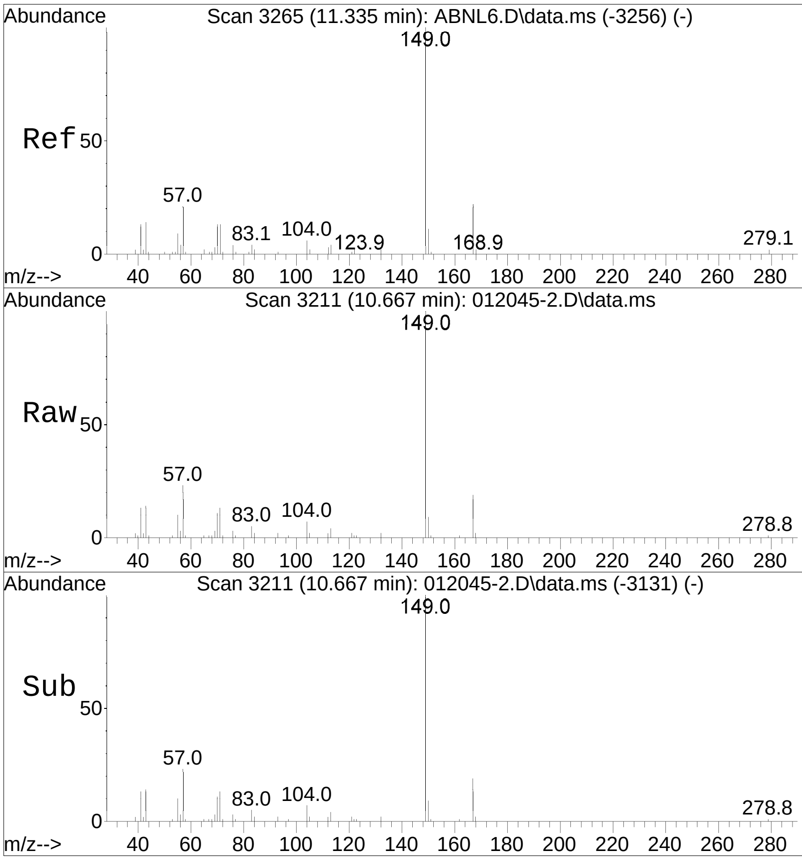



#108
3,3'-Dichlorobenzidine
Concen: 1.59 ug/ml
RT: 10.490 min Scan# 3154
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:252 Resp: 30520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 126 | 11.5 | 14.5 | 21.7# |
| 254 | 65.5 | 51.2 | 76.8 |

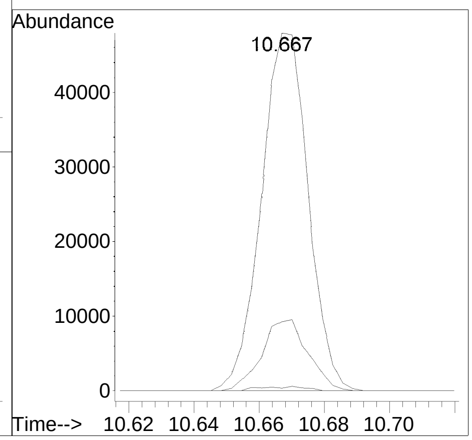


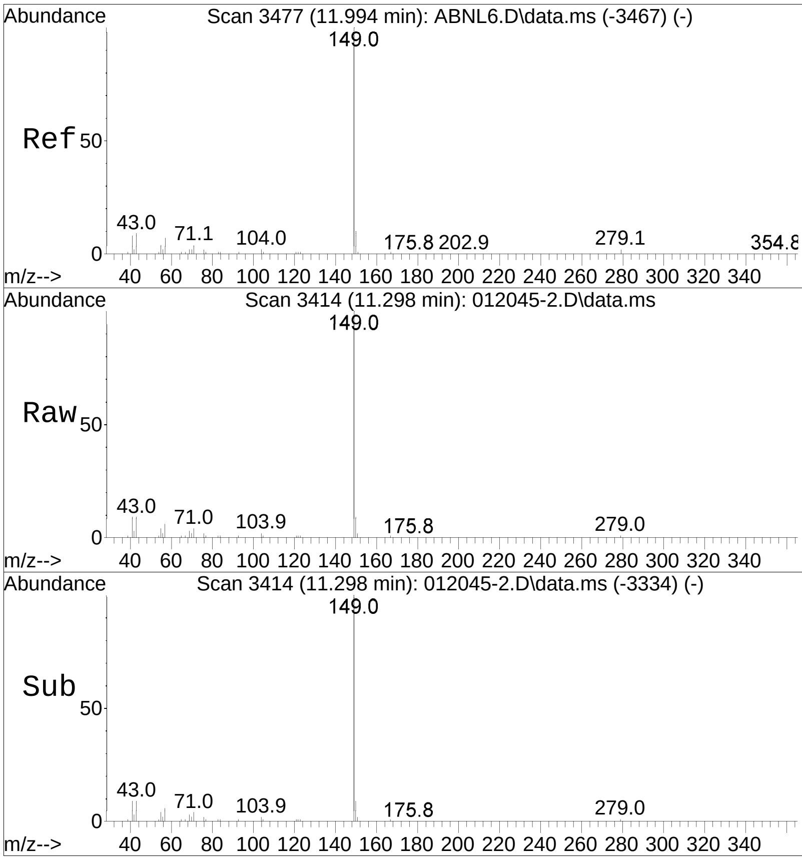



#110
Bis(2-ethylhexyl)phthalate
Concen: 1.73 ug/ml
RT: 10.667 min Scan# 3211
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:149 Resp: 47654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 19.5 | 22.1 | 33.1# |
| 279 | 1.1 | 3.0 | 4.4# |

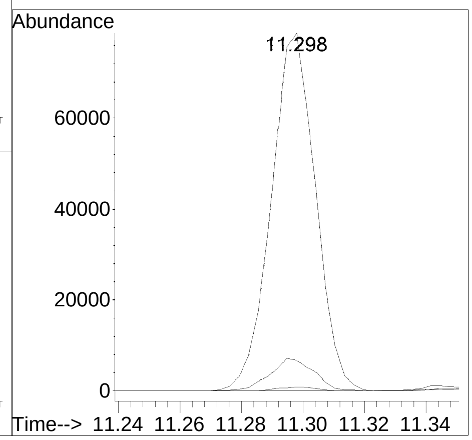





#111
Di-n-octylphthalate
Concen: 1.70 ug/ml
RT: 11.298 min Scan# 3414
Delta R.T. -0.000 min
Lab File: 012045-2.D
Acq: 21 Dec 2024 10:26 am

Tgt Ion:149 Resp: 78293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 43 | 9.1 | 18.8 | 28.2# |
| 167 | 1.0 | 1.3 | 1.9# |



Quantitation Report    (QT Reviewed)

```
Data Path : I:\8270\Dakota\241221RVT\
Data File : 012045-3.D
Acq On    : 21 Dec 2024  10:48 am
Operator  : Dakota:smz
Sample    : WG2012045-3,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Dec 23 08:51:50 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
             : 2 - I:\8270\Dakota\241221RVT\ADP1221.D
             : 3 - I:\8270\Dakota\241221RVT\AP91221.D
Sub List     : 8270TCL_REV2 - TCL/CT/MA

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) IS1_1,4-Dichlorobenzen...    3.630  152     22550     4.000 ug/ml    0.00
   Standard Area 1 = 22385                 Recovery   =  100.74%
27) IS2_1,4-Dichlorobenzen...    3.630  152     22550     4.000 ug/ml    0.00
   Standard Area 3 = 23078                 Recovery   =   97.71%
32) IS3_1,4-Dichlorobenzen...    3.630  152     22550     4.000 ug/ml    0.00
   Standard Area 2 = 21890                 Recovery   =  103.02%
37) IS1_Naphthalene-d8           4.889  136     85883     4.000 ug/ml  # 0.00
   Standard Area 1 = 89532                 Recovery   =   95.92%
57) IS2_Naphthalene-d8           4.889  136     85883     4.000 ug/ml  # 0.00
   Standard Area 3 = 89152                 Recovery   =   96.33%
65) IS1_Acenaphthene-d10         6.571  164     57991     4.000 ug/ml    0.00
   Standard Area 1 = 62636                 Recovery   =   92.58%
85) IS2_Acenaphthene-d10         6.571  164     57991     4.000 ug/ml    0.00
   Standard Area 3 = 59962                 Recovery   =   96.71%
88) IS3_Acenaphthene-d10         6.571  164     57991     4.000 ug/ml    0.00
   Standard Area 2 = 55641                 Recovery   =  104.22%
90) IS1_Phenanthrene-d10         7.963  188    135425     4.000 ug/ml    0.00
   Standard Area 1 = 138966                 Recovery   =   97.45%
102) IS3_Phenanthrene-d10        7.963  188    135425     4.000 ug/ml    0.00
   Standard Area 2 = 132823                 Recovery   =  101.96%
106) IS1_Chrysene-d12           10.465  240    157212     4.000 ug/ml    0.00
   Standard Area 1 = 162401                 Recovery   =   96.80%
115) IS1_Perylene-d12           11.814  264    194101     4.000 ug/ml    0.00
   Standard Area 1 = 195179                 Recovery   =   99.45%

 System Monitoring Compounds
 4) 2-Fluorophenol               2.219  112      6443     1.111 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   55.55%
 7) Phenol-d6                    3.360   99      6353     0.856 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   42.80%
19) Nitrobenzene-d5              4.205   82      5429     0.806 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   80.60%
48) 2-Fluorobiphenyl             5.977  172     14798     0.696 ug/ml   0.00
   Spiked Amount      1.000   Range  30 - 130    Recovery   =   69.60%
81) 2,4,6-Tribromophenol         7.323  330      7533     1.817 ug/ml   0.00
   Spiked Amount      2.000   Range  15 - 110    Recovery   =   90.85%
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241221RVT\
Data File : 012045-3.D
Acq On : 21 Dec 2024 10:48 am
Operator : Dakota:smz
Sample : WG2012045-3,32,,gmr
Misc : WG2012119,WG2012045,ical21680
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 23 08:51:50 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
: 2 - I:\8270\Dakota\241221RVT\ADP1221.D
: 3 - I:\8270\Dakota\241221RVT\AP91221.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 98) 4-Terphenyl-d14 | 9.533 | 244 | 30260 | 0.772 | ug/ml | 0.00 |

Spiked Amount 1.000 Range 30 - 130 Recovery = 77.20%

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|---|---|---|---|---|---|---|
| 6) 2-Chlorophenol | 3.419 | 128 | 10223 | 1.480 | ug/ml# | 88 |
| 8) Phenol | 3.372 | 94 | 7327 | 0.915 | ug/ml | 95 |
| 14) Bis(2-chloroisopropyl)... | 3.978 | 45 | 14856 | 1.469 | ug/ml# | 64 |
| 15) 2-Methylphenol | 3.988 | 108 | 8307 | 1.365 | ug/ml | 95 |
| 17) n-Nitrosodi-n-propylamine | 4.112 | 70 | 7748 | 1.593 | ug/ml# | 81 |
| 18) 3-Methylphenol/4-Methy... | 4.156 | 108 | 9574 | 1.436 | ug/ml# | 80 |
| 20) Nitrobenzene | 4.227 | 77 | 10897 | 1.581 | ug/ml | 91 |
| 21) Isophorone | 4.479 | 82 | 19707 | 1.556 | ug/ml# | 92 |
| 22) 2-Nitrophenol | 4.547 | 139 | 5642 | 1.617 | ug/ml# | 85 |
| 23) 2,4-Dimethylphenol | 4.665 | 107 | 7059 | 1.138 | ug/ml | 99 |
| 24) Bis(2-chloroethoxy)met... | 4.746 | 93 | 12568 | 1.593 | ug/ml# | 95 |
| 25) 2,4-Dichlorophenol | 4.793 | 162 | 11639 | 1.607 | ug/ml# | 91 |
| 28) Benzaldehyde | 3.170 | 105 | 8215 | 2.071 | ug/ml | 99 |
| 29) Acetophenone | 4.072 | 105 | 15652 | 1.978 | ug/ml# | 79 |
| 40) 4-Chloroaniline | 5.010 | 65 | 2988 | 1.151 | ug/ml | 77 |
| 42) p-Chloro-m-cresol | 5.539 | 107 | 10221 | 1.642 | ug/ml | 90 |
| 45) Hexachlorocyclopentadiene | 5.769 | 237 | 4836 | 0.827 | ug/ml | 96 |
| 46) 2,4,6-Trichlorophenol | 5.893 | 196 | 9979 | 1.622 | ug/ml | 95 |
| 47) 2,4,5-Trichlorophenol | 5.921 | 196 | 12040 | 1.750 | ug/ml | 97 |
| 50) 2-Nitroaniline | 6.179 | 138 | 8422 | 1.798 | ug/ml# | 78 |
| 53) Dimethyl phthalate | 6.400 | 163 | 35209 | 1.655 | ug/ml# | 97 |
| 55) 2,6-Dinitrotoluene | 6.431 | 165 | 6701 | 1.687 | ug/ml | 92 |
| 62) Caprolactam | 5.306 | 55 | 1795 | 0.680 | ug/ml# | 81 |
| 63) 1,2,4,5-Tetrachloroben... | 5.762 | 216 | 14411 | 1.625 | ug/ml | 97 |
| 64) Biphenyl | 6.055 | 154 | 31688 | 1.754 | ug/ml | 97 |
| 66) 3-Nitroaniline | 6.574 | 138 | 7676 | 1.714 | ug/ml# | 87 |
| 68) 2,4-Dinitrophenol | 6.676 | 184 | 2758 | 1.011 | ug/ml# | 84 |
| 69) Dibenzofuran | 6.769 | 168 | 44162 | 1.518 | ug/ml | 90 |
| 70) 2,4-Dinitrotoluene | 6.807 | 165 | 9802 | 1.746 | ug/ml# | 84 |
| 71) 4-Nitrophenol | 6.797 | 65 | 4677 | 1.401 | ug/ml | 94 |
| 74) Diethyl phthalate | 7.080 | 149 | 37376 | 1.637 | ug/ml | 96 |
| 76) 4-Chlorophenyl phenyl ... | 7.133 | 204 | 16993 | 1.480 | ug/ml | 89 |
| 77) 4-Nitroaniline | 7.142 | 138 | 8341 | 1.927 | ug/ml# | 77 |

Quantitation Report    (QT Reviewed)

Data Path : I:\8270\Dakota\241221RVT\
Data File : 012045-3.D
Acq On    : 21 Dec 2024  10:48 am
Operator  : Dakota:smz
Sample    : WG2012045-3,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Dec 23 08:51:50 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

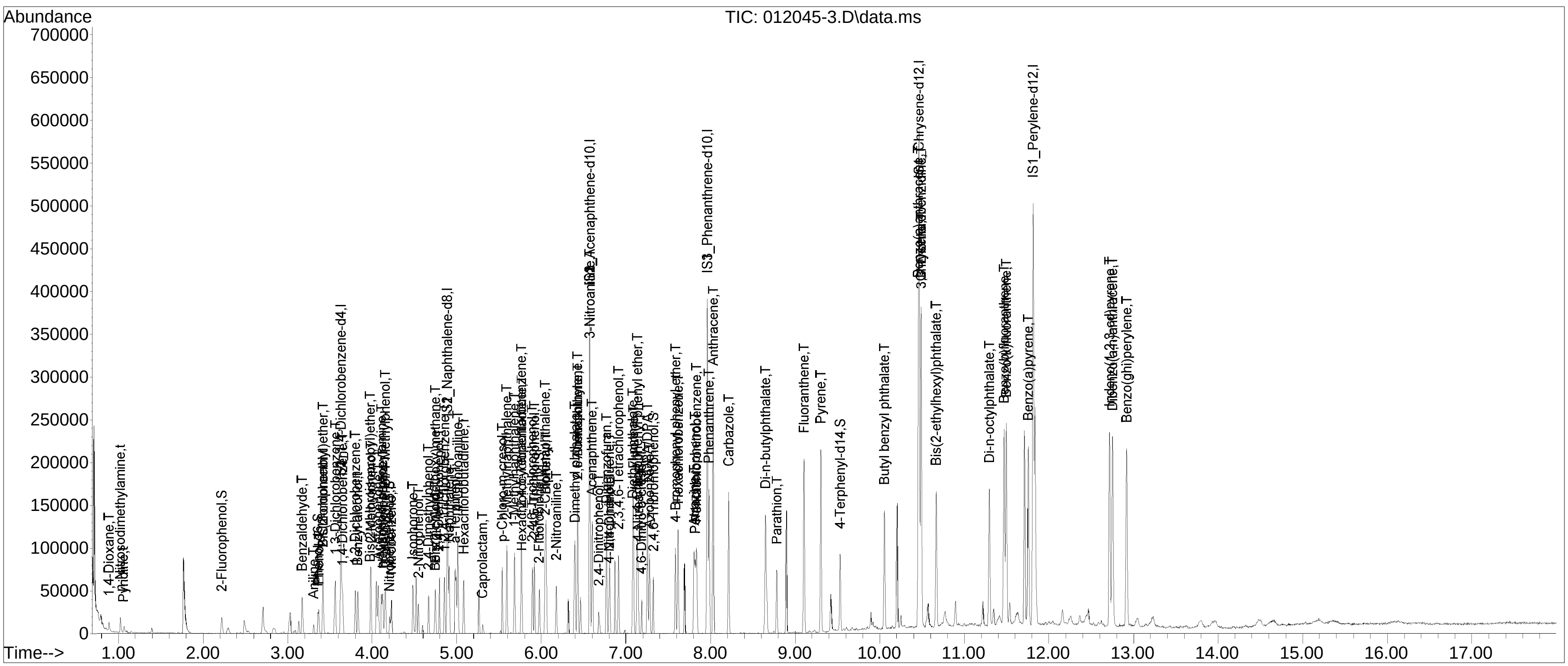
CCAL FILE(s) : 1 - I:\8270\Dakota\241221RVT\ABN1221.D
             : 2 - I:\8270\Dakota\241221RVT\ADP1221.D
             : 3 - I:\8270\Dakota\241221RVT\AP91221.D
Sub List     : 8270TCL_REV2 - TCL/CT/MA

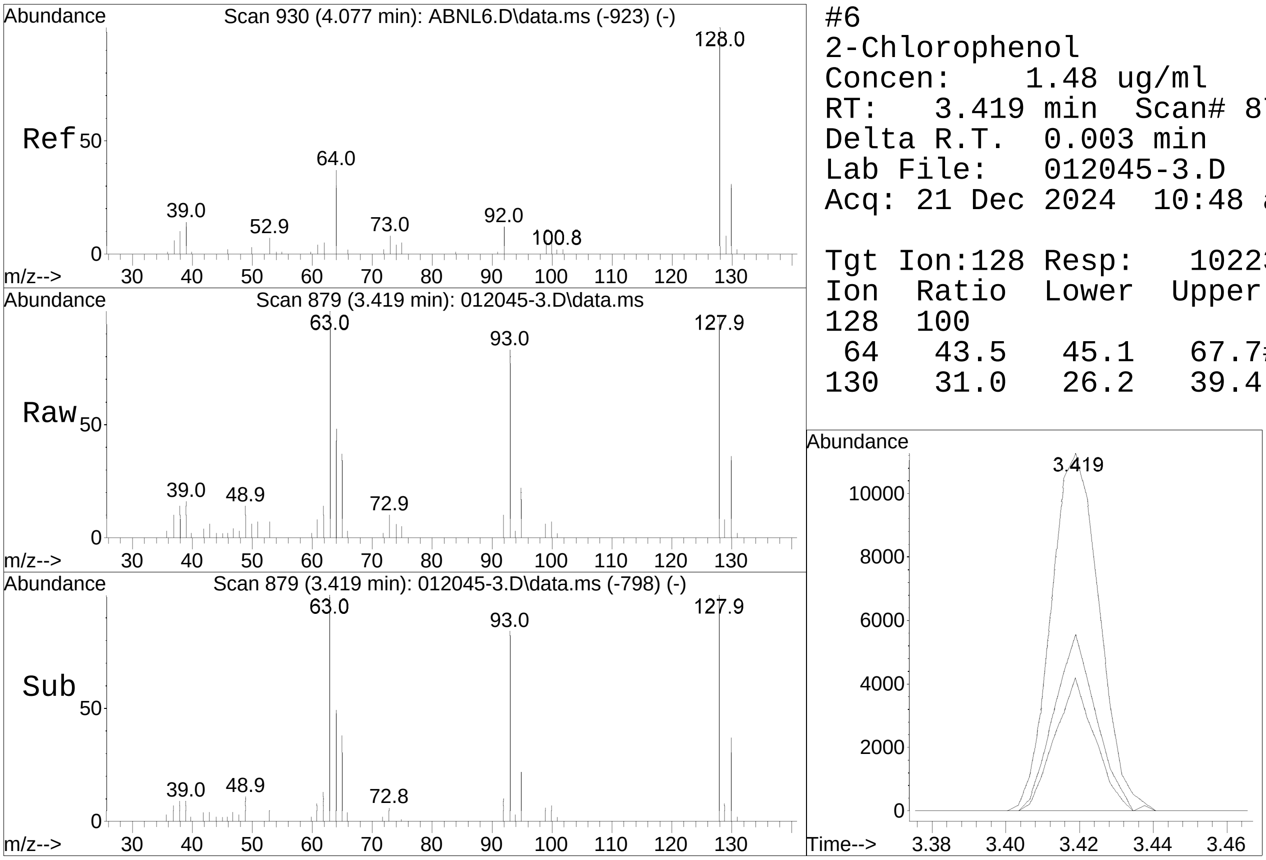
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 78) | 4,6-Dinitro-o-cresol | 7.183 | 198 | 5123 | 1.510 | ug/ml# | 62 |
| 79) | NDPA/DPA | 7.251 | 169 | 30421 | 1.570 | ug/ml | 94 |
| 82) | 4-Bromophenyl phenyl e... | 7.587 | 248 | 12532 | 1.657 | ug/ml# | 80 |
| 89) | Atrazine | 7.808 | 200 | 11551 | 2.322 | ug/ml# | 77 |
| 93) | Carbazole | 8.215 | 167 | 58672 | 1.628 | ug/ml | 98 |
| 94) | Di-n-butylphthalate | 8.650 | 149 | 70271 | 1.720 | ug/ml | 99 |
| 99) | Butyl benzyl phthalate | 10.055 | 149 | 33719 | 1.927 | ug/ml# | 81 |
| 108) | 3,3'-Dichlorobenzidine | 10.490 | 252 | 32080 | 1.617 | ug/ml# | 96 |
| 110) | Bis(2-ethylhexyl)phtha... | 10.667 | 149 | 55441 | 1.942 | ug/ml# | 87 |
| 111) | Di-n-octylphthalate | 11.298 | 149 | 92420 | 1.941 | ug/ml# | 74 |

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

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270\Dakota\241221RVT\
Data File : 012045-3.D
Acq On    : 21 Dec 2024  10:48 am
Operator  : Dakota:smz
Sample    : WG2012045-3,32,,gmr
Misc      : WG2012119,WG2012045,ical21680
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Dec 23 08:51:50 2024
Quant Method : I:\8270\Dakota\241221RVT\FS241105RVT_Dakota.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 07:34:06 2024
Response via : Initial Calibration

Sub List     : 8270TCL_REV2 - TCL/CT/MA1RVT\AP91221.D•
```

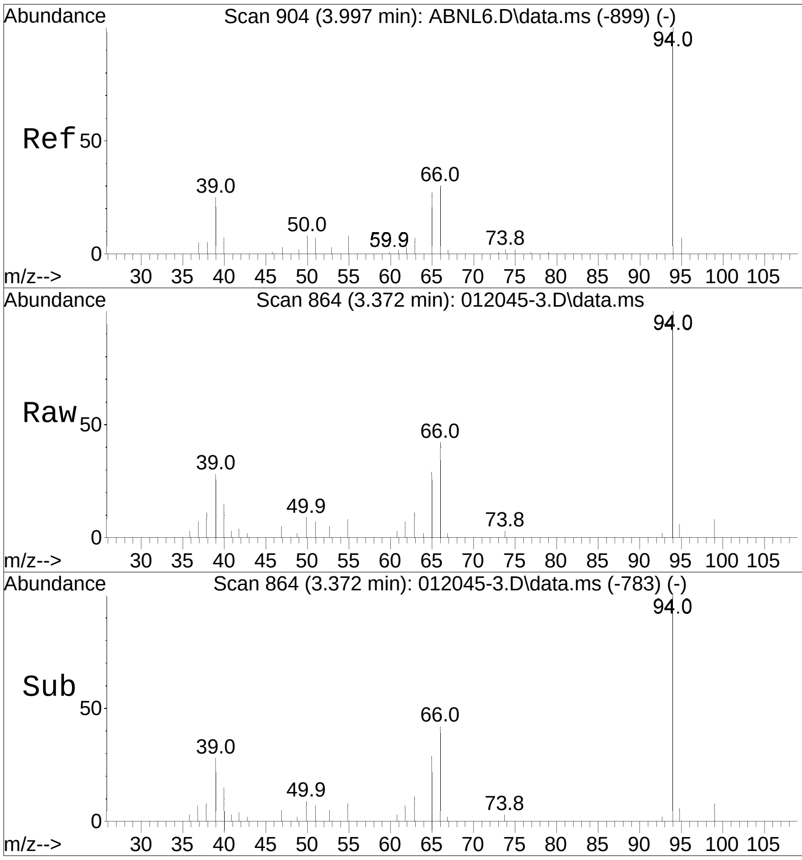





#6
2-Chlorophenol
Concen: 1.48 ug/ml
RT: 3.419 min Scan# 879
Delta R.T. 0.003 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:128 Resp: 10223

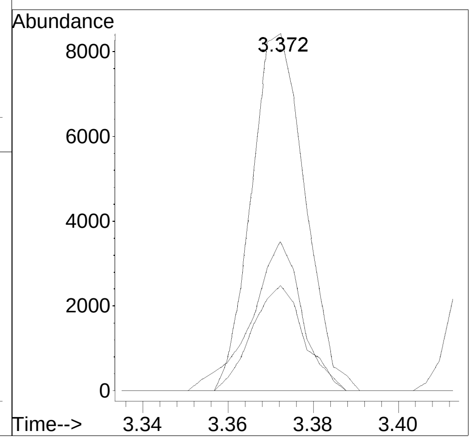
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 64 | 43.5 | 45.1 | 67.7# |
| 130 | 31.0 | 26.2 | 39.4 |

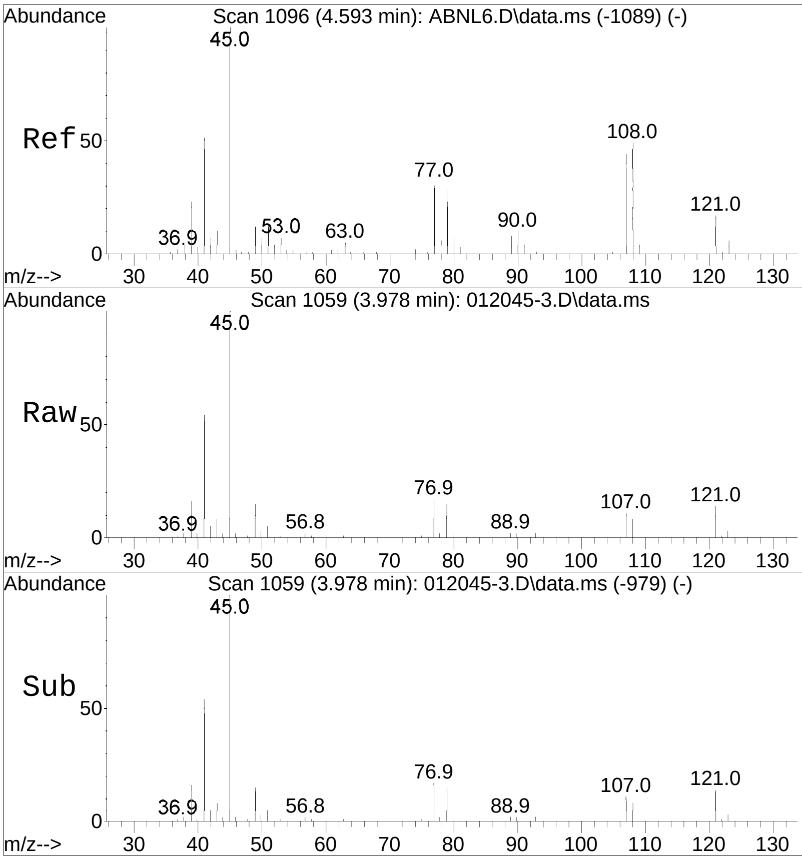



#8
Phenol
Concen: 0.91 ug/ml
RT: 3.372 min Scan# 864
Delta R.T. 0.003 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

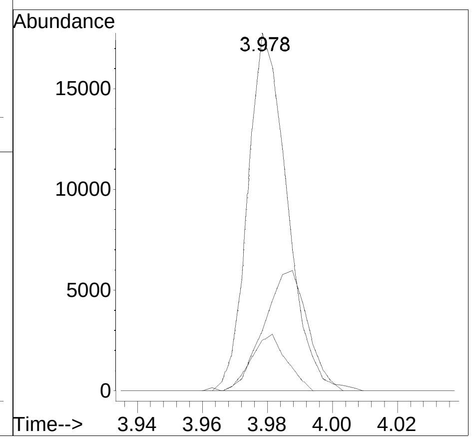
Tgt Ion: 94 Resp: 7327

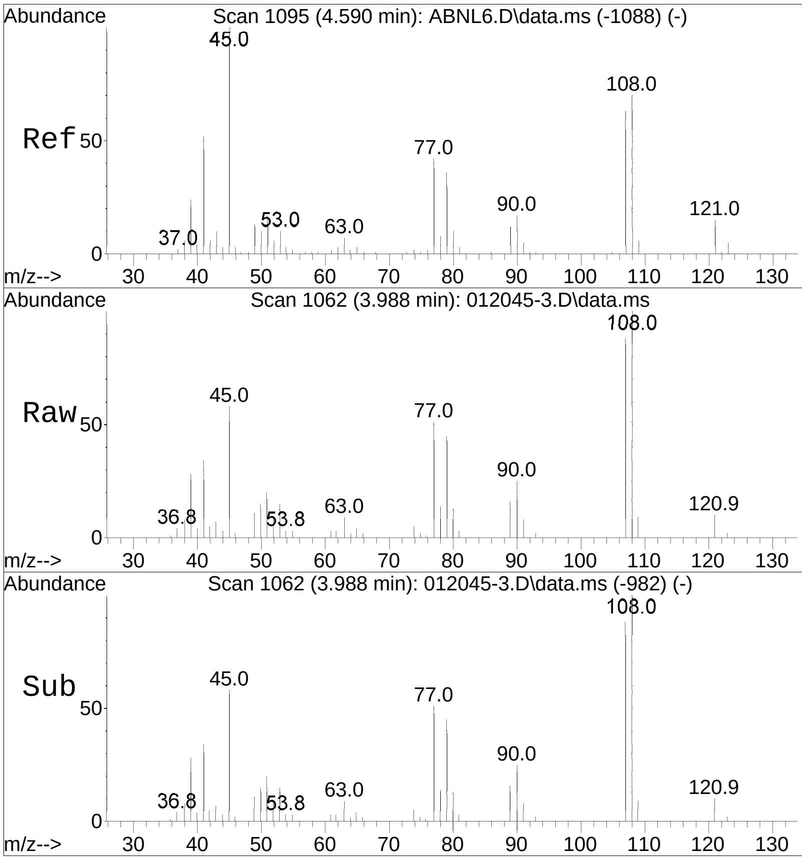
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 28.9 | 26.0 | 39.0 |
| 66 | 39.8 | 33.8 | 50.8 |






```
#14
Bis(2-chloroisopropyl)ether
Concen:    1.47 ug/ml
RT:   3.978 min  Scan# 1059
Delta R.T.  -0.000 min
Lab File:   012045-3.D
Acq: 21 Dec 2024  10:48 am

Tgt Ion: 45 Resp:   14856
Ion  Ratio  Lower  Upper
 45  100
121   14.2    9.8   14.6
 77   37.7    6.1    9.1#
```

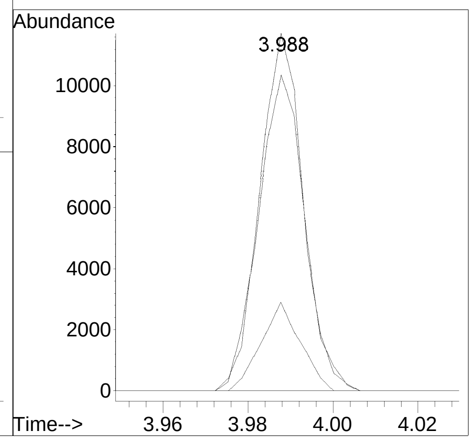


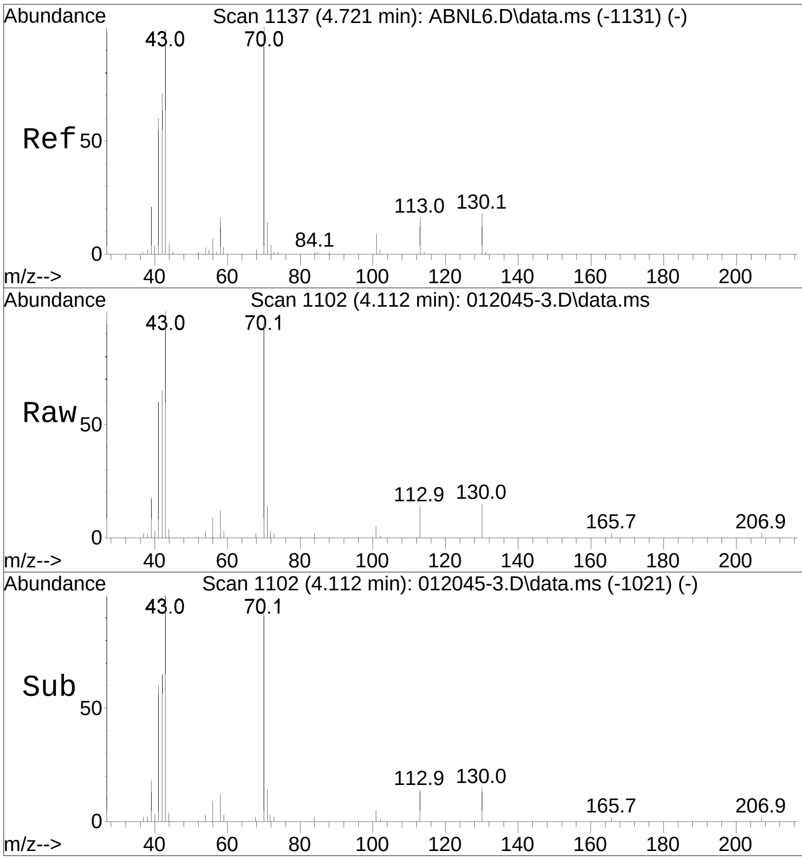



#15
2-Methylphenol
Concen: 1.37 ug/ml
RT: 3.988 min Scan# 1062
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:108 Resp: 8307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 107 | 94.3 | 70.7 | 106.1 |
| 90 | 22.5 | 18.7 | 28.1 |

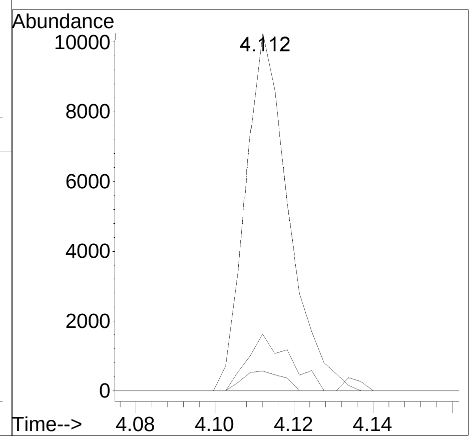


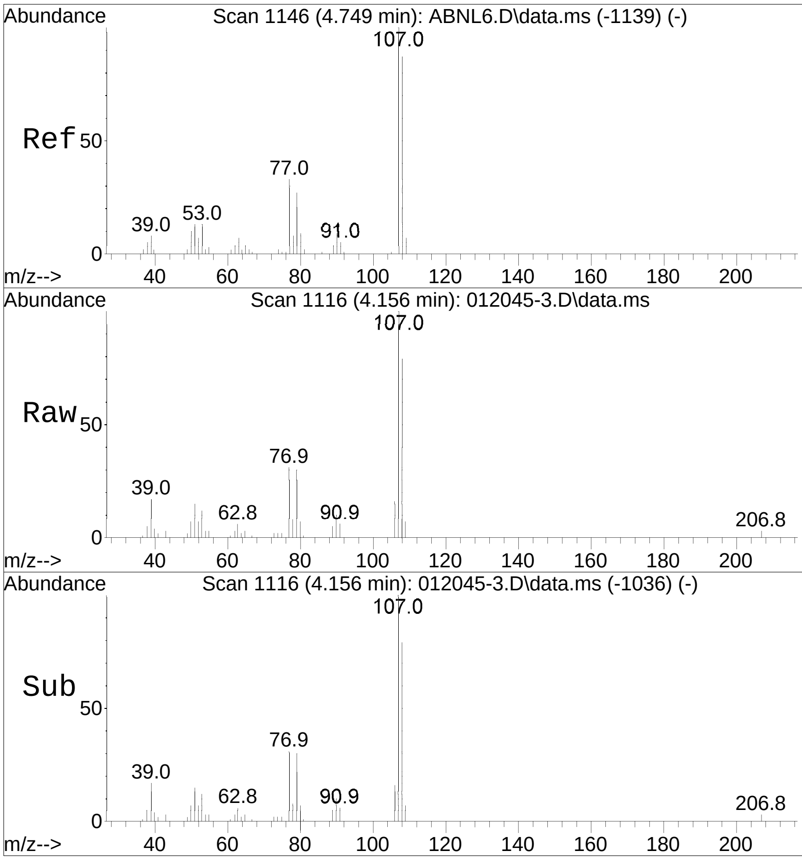



#17
n-Nitrosodi-n-propylamine
Concen: 1.59 ug/ml
RT: 4.112 min Scan# 1102
Delta R.T. 0.003 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion: 70 Resp: 7748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 130 | 15.5 | 18.2 | 27.4# |
| 101 | 0.0 | 7.8 | 11.8# |

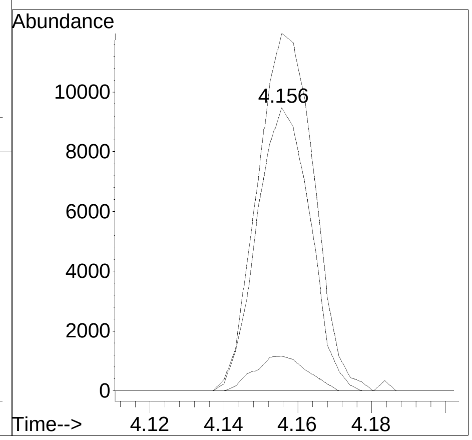


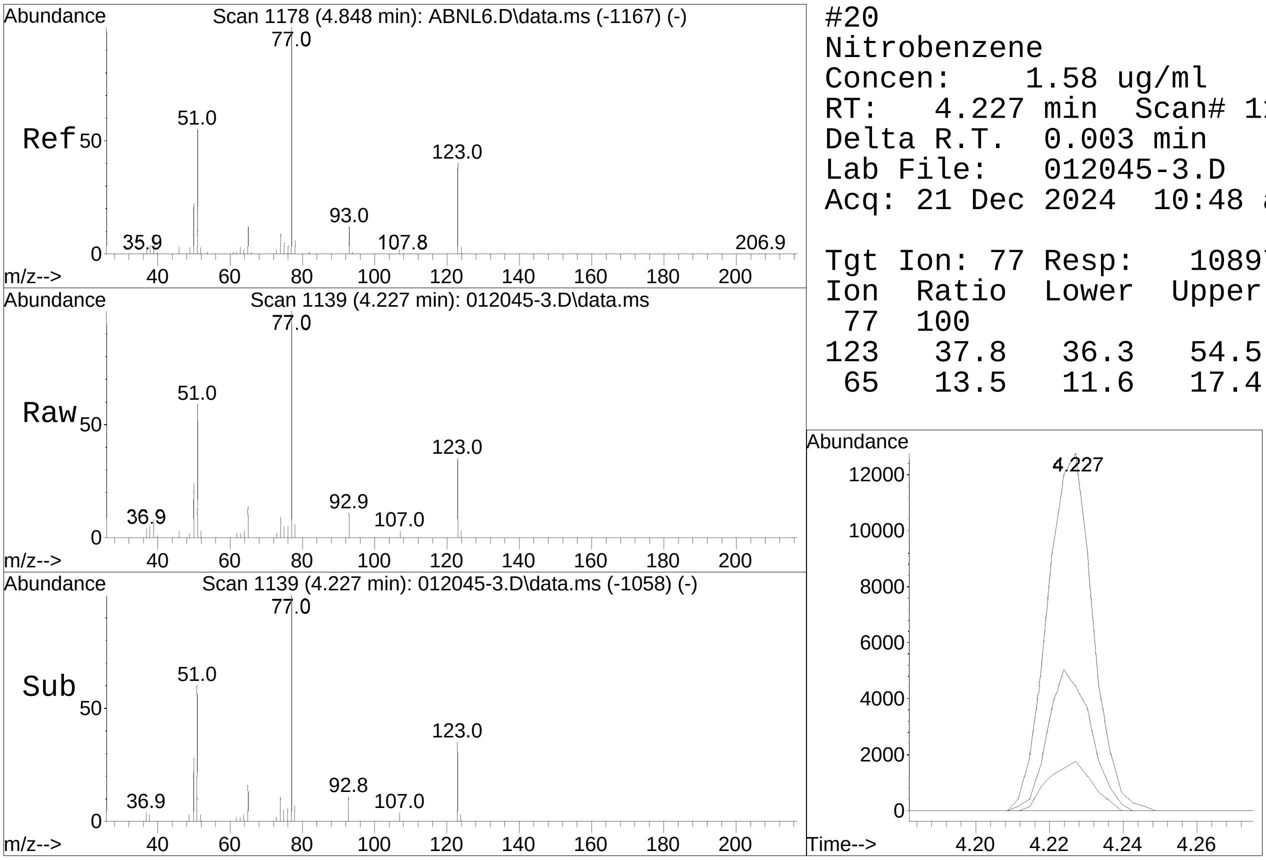



#18
3-Methylphenol/4-Methylphenol
Concen: 1.44 ug/ml
RT: 4.156 min Scan# 1116
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:108 Resp: 9574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 107 | 133.9 | 88.6 | 132.8# |
| 90 | 12.0 | 8.8 | 13.2 |

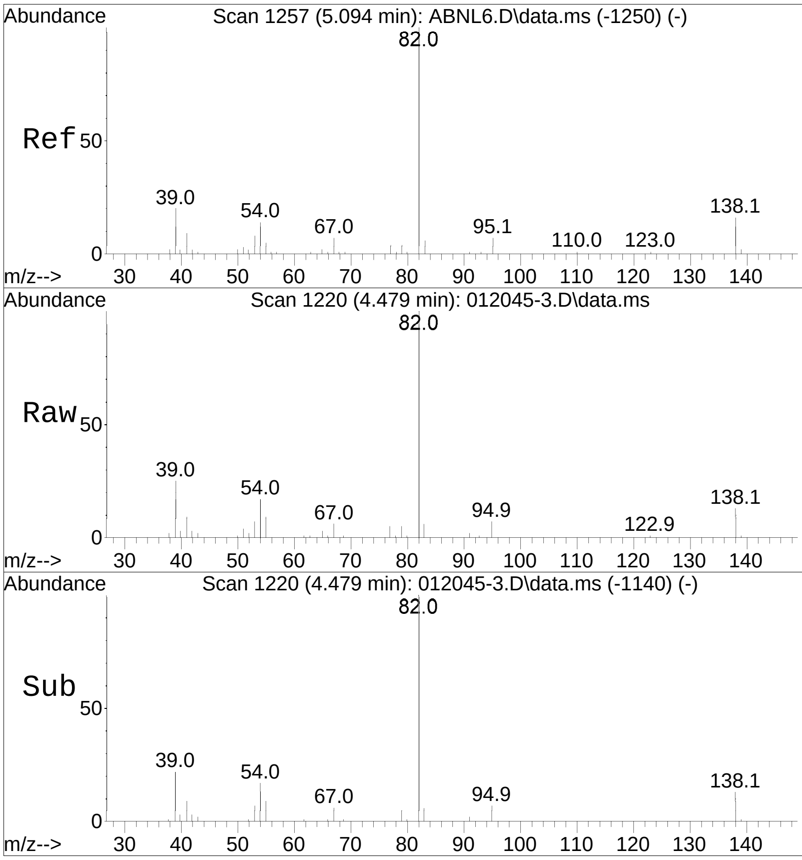





#20
Nitrobenzene
Concen: 1.58 ug/ml
RT: 4.227 min Scan# 1139
Delta R.T. 0.003 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion: 77 Resp: 10897

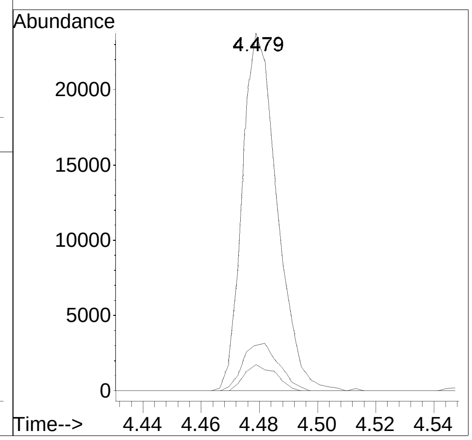
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 37.8 | 36.3 | 54.5 |
| 65 | 13.5 | 11.6 | 17.4 |

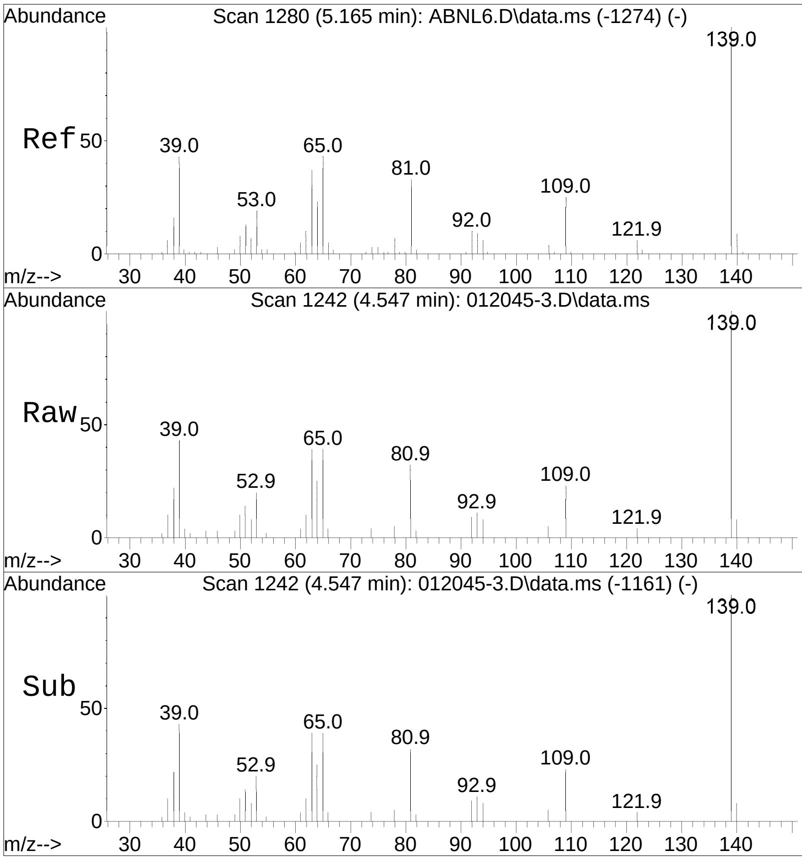



#21
Isophorone
Concen: 1.56 ug/ml
RT: 4.479 min Scan# 1220
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion: 82 Resp: 19707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 138 | 13.8 | 14.7 | 22.1# |
| 95 | 6.6 | 5.2 | 7.8 |

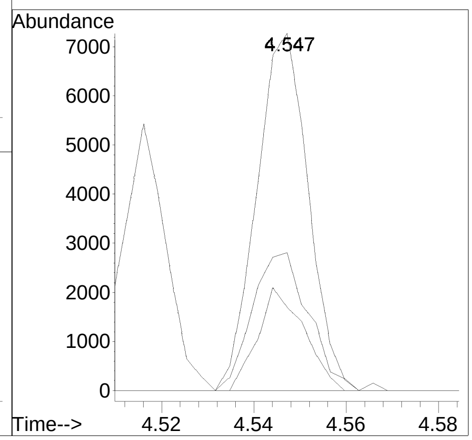


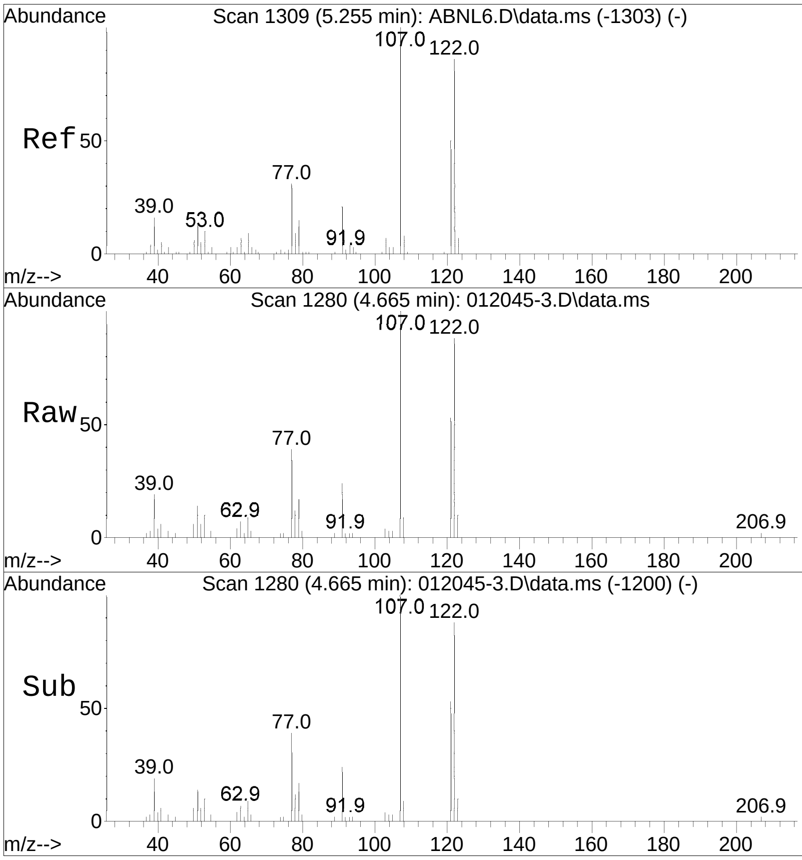



#22
2-Nitrophenol
Concen: 1.62 ug/ml
RT: 4.547 min Scan# 1242
Delta R.T. 0.003 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:139 Resp: 5642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 25.9 | 19.4 | 29.0 |
| 65 | 42.7 | 46.1 | 69.1# |

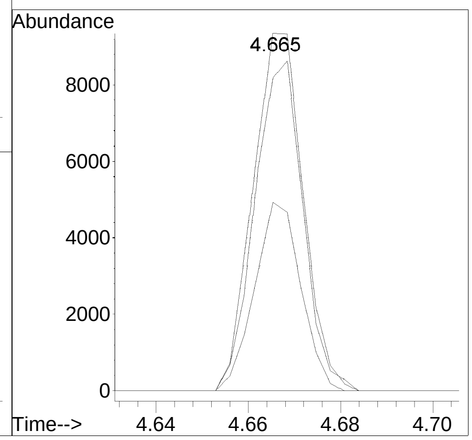


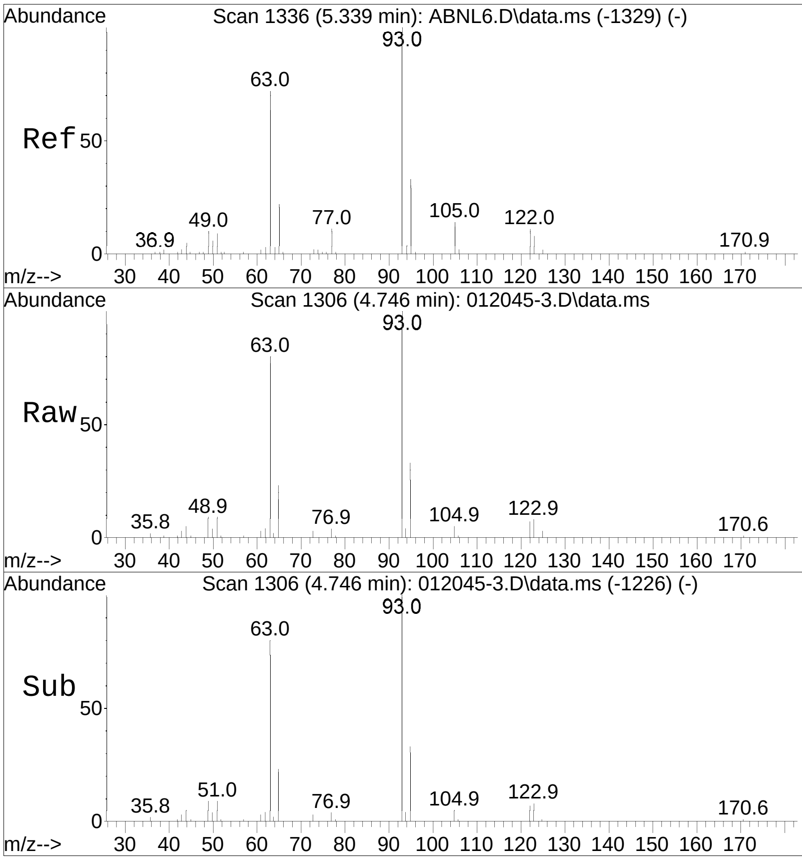



#23
2,4-Dimethylphenol
Concen: 1.14 ug/ml
RT: 4.665 min Scan# 1280
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:107 Resp: 7059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 121 | 48.6 | 40.0 | 60.0 |
| 122 | 88.7 | 70.2 | 105.4 |

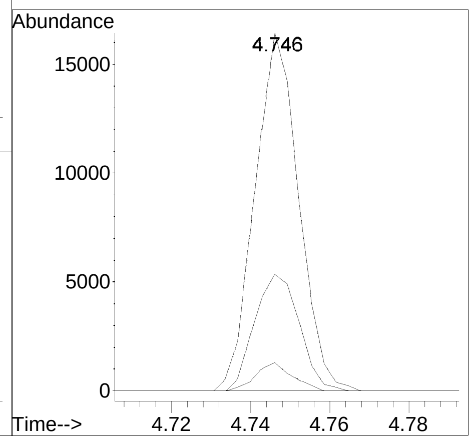


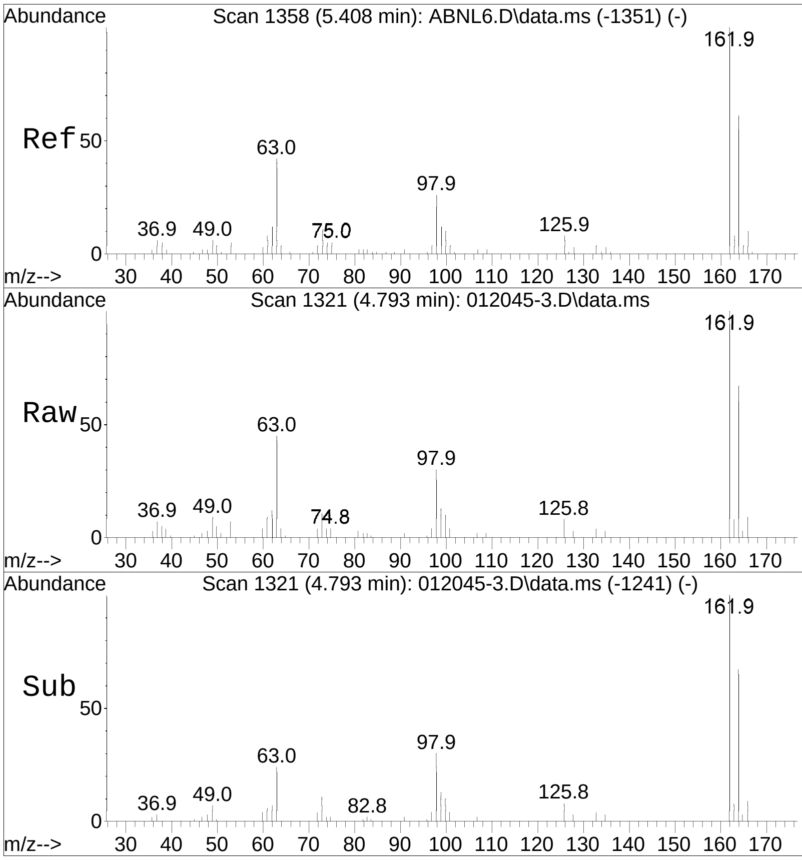



#24
Bis(2-chloroethoxy)methane
Concen: 1.59 ug/ml
RT: 4.746 min Scan# 1306
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion: 93 Resp: 12568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 33.2 | 25.8 | 38.8 |
| 123 | 6.6 | 10.1 | 15.1# |

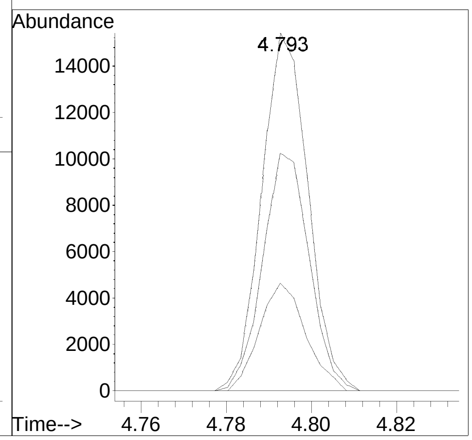


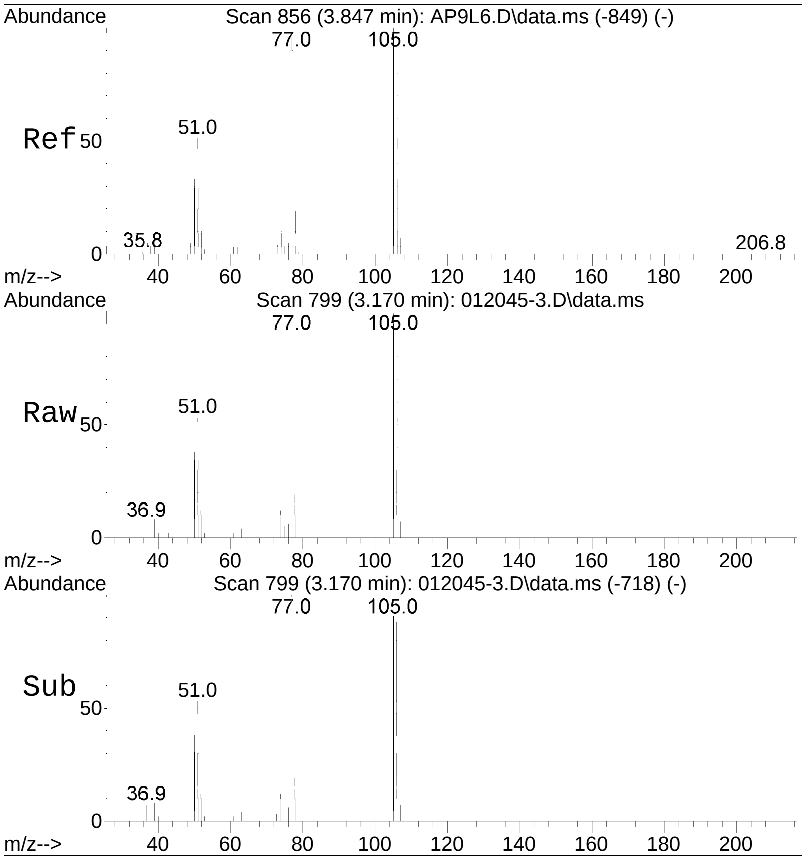



#25
2,4-Dichlorophenol
Concen: 1.61 ug/ml
RT: 4.793 min Scan# 1321
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:162 Resp: 11639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 66.8 | 51.0 | 76.4 |
| 98 | 30.1 | 32.2 | 48.2# |

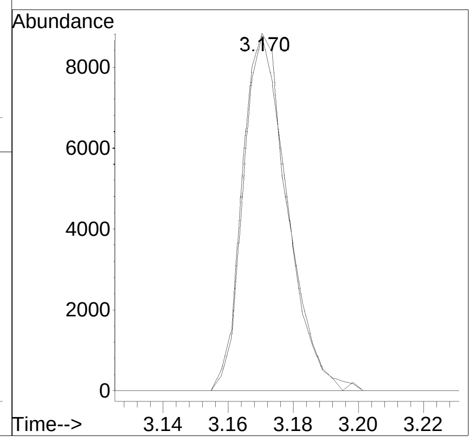


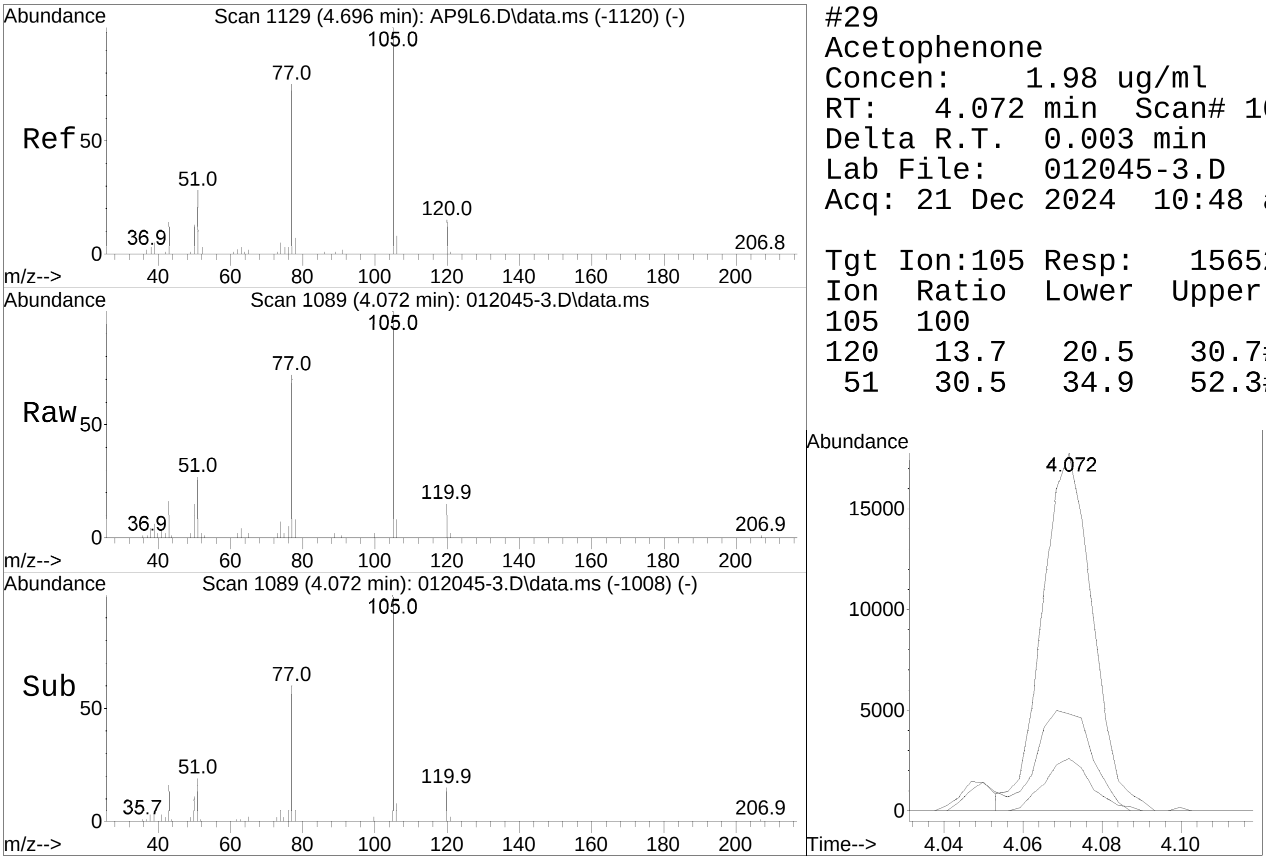



#28
Benzaldehyde
Concen: 2.07 ug/ml
RT: 3.170 min Scan# 799
Delta R.T. 0.003 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:105 Resp: 8215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 77 | 103.9 | 82.2 | 123.4 |

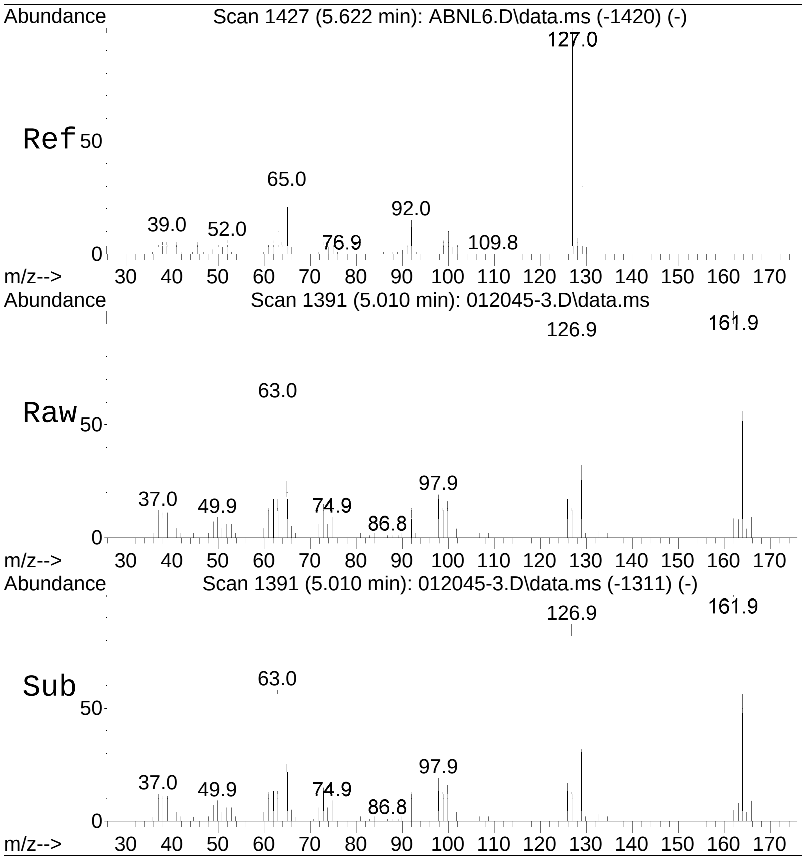





#29
Acetophenone
Concen: 1.98 ug/ml
RT: 4.072 min Scan# 1089
Delta R.T. 0.003 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:105 Resp: 15652

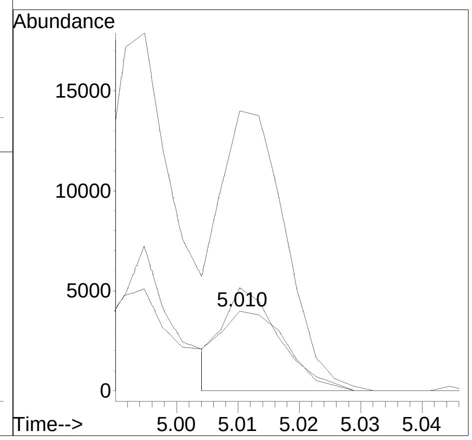
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 13.7 | 20.5 | 30.7# |
| 51 | 30.5 | 34.9 | 52.3# |

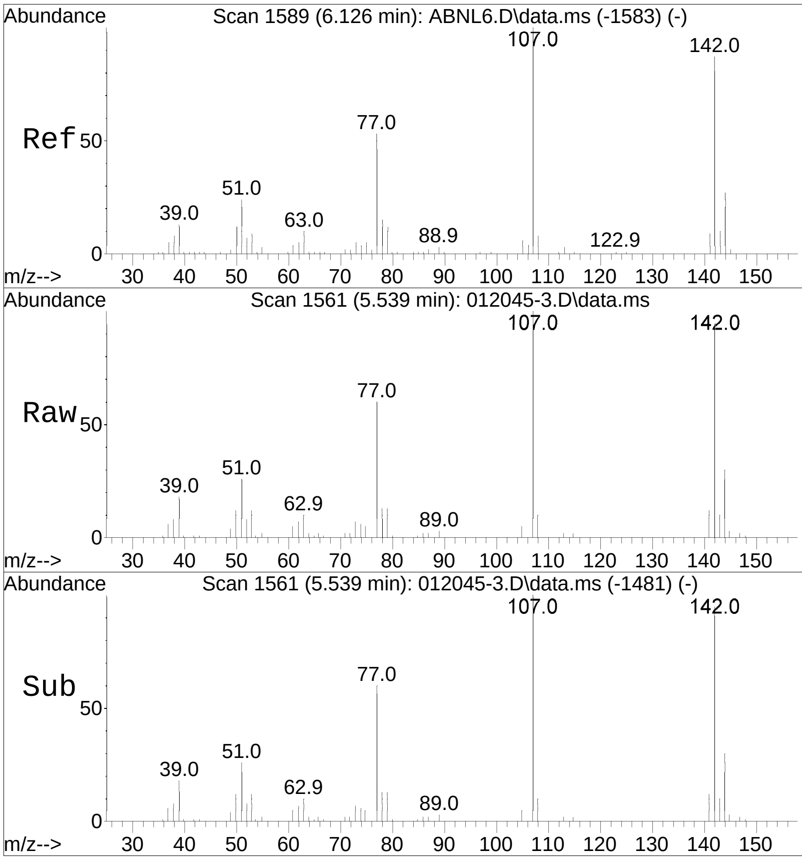



#40
4-Chloroaniline
Concen: 1.15 ug/ml
RT: 5.010 min Scan# 1391
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion: 65 Resp: 2988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 127 | 344.8 | 237.6 | 356.4 |
| 129 | 111.8 | 76.3 | 114.5 |

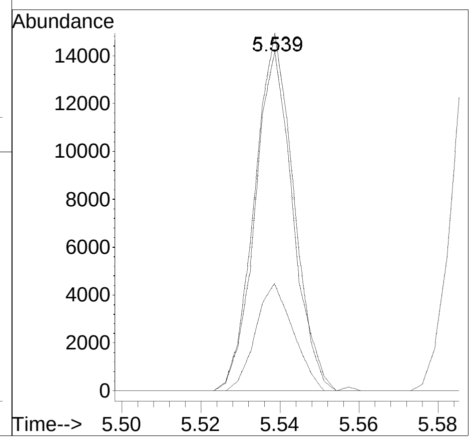


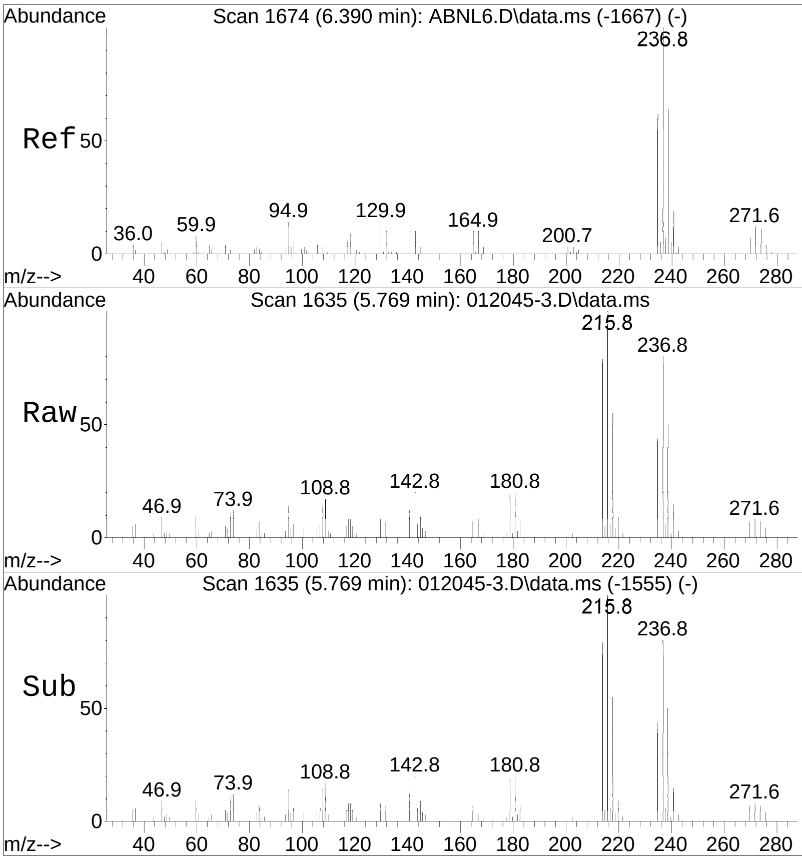



#42
p-Chloro-m-cresol
Concen: 1.64 ug/ml
RT: 5.539 min Scan# 1561
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:107 Resp: 10221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 28.9 | 20.9 | 31.3 |
| 142 | 92.6 | 66.1 | 99.1 |

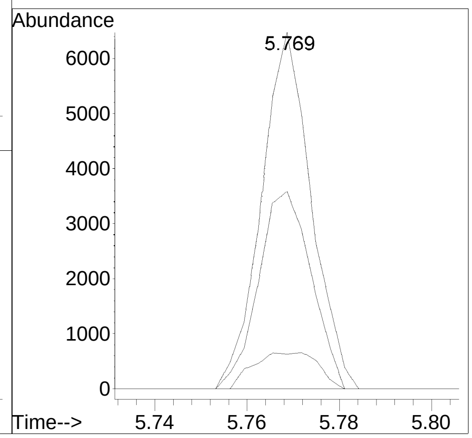


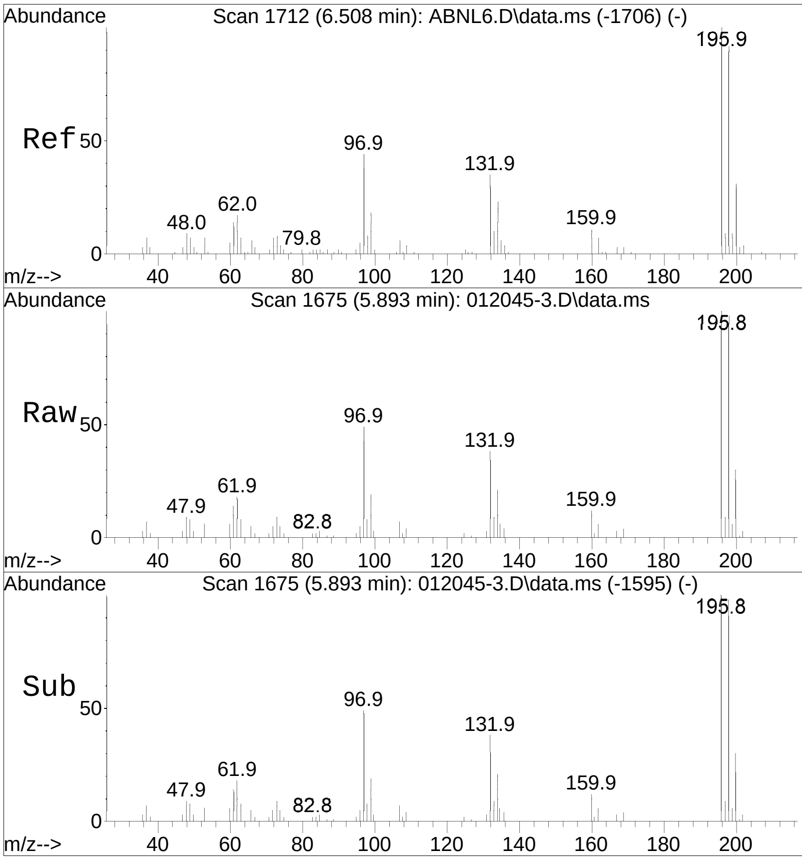



#45
Hexachlorocyclopentadiene
Concen: 0.83 ug/ml
RT: 5.769 min Scan# 1635
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:237 Resp: 4836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 58.9 | 49.7 | 74.5 |
| 272 | 13.4 | 9.8 | 14.6 |

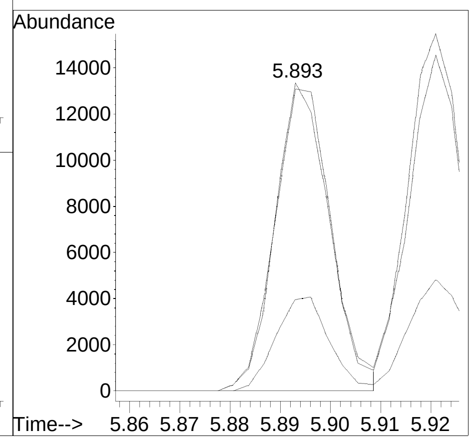


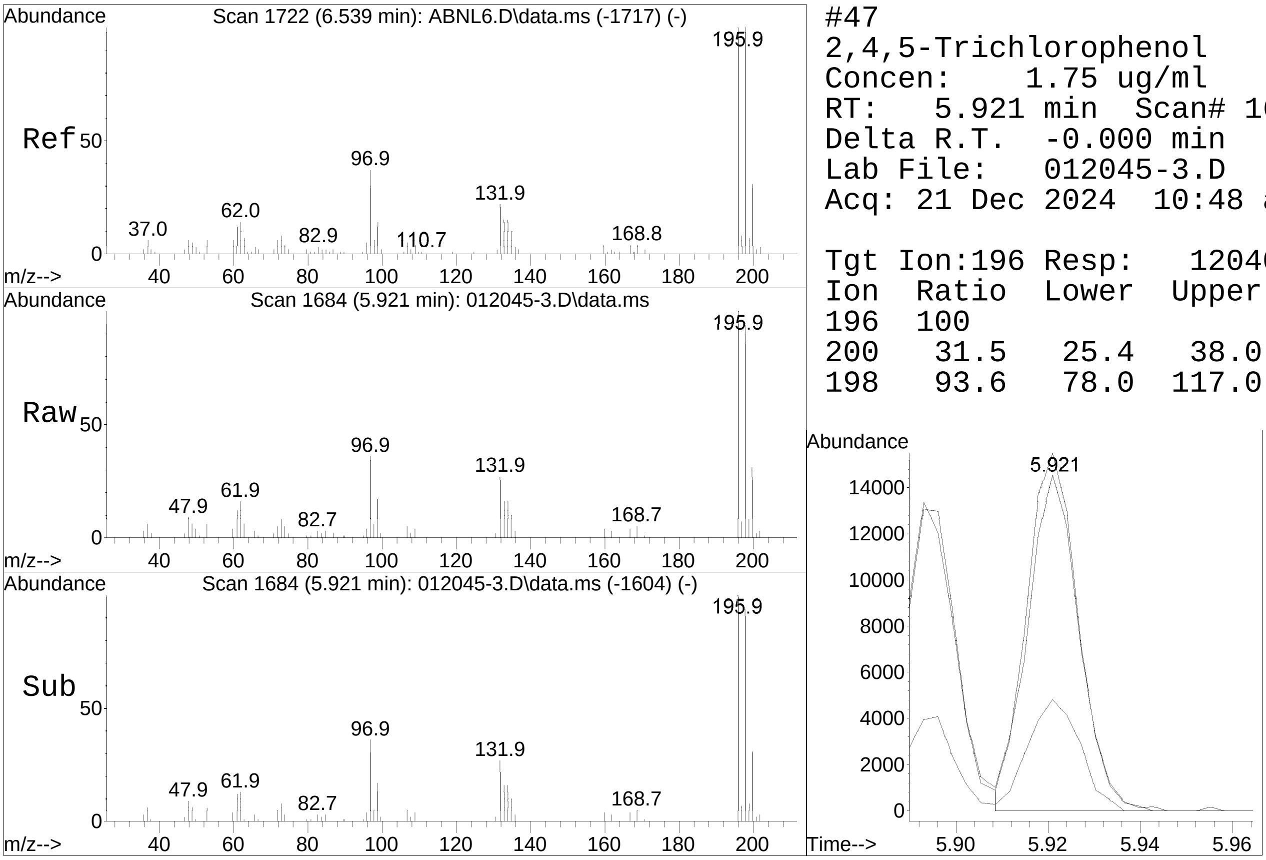



#46
2,4,6-Trichlorophenol
Concen: 1.62 ug/ml
RT: 5.893 min Scan# 1675
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:196 Resp: 9979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 103.2 | 77.5 | 116.3 |
| 200 | 30.5 | 23.8 | 35.6 |

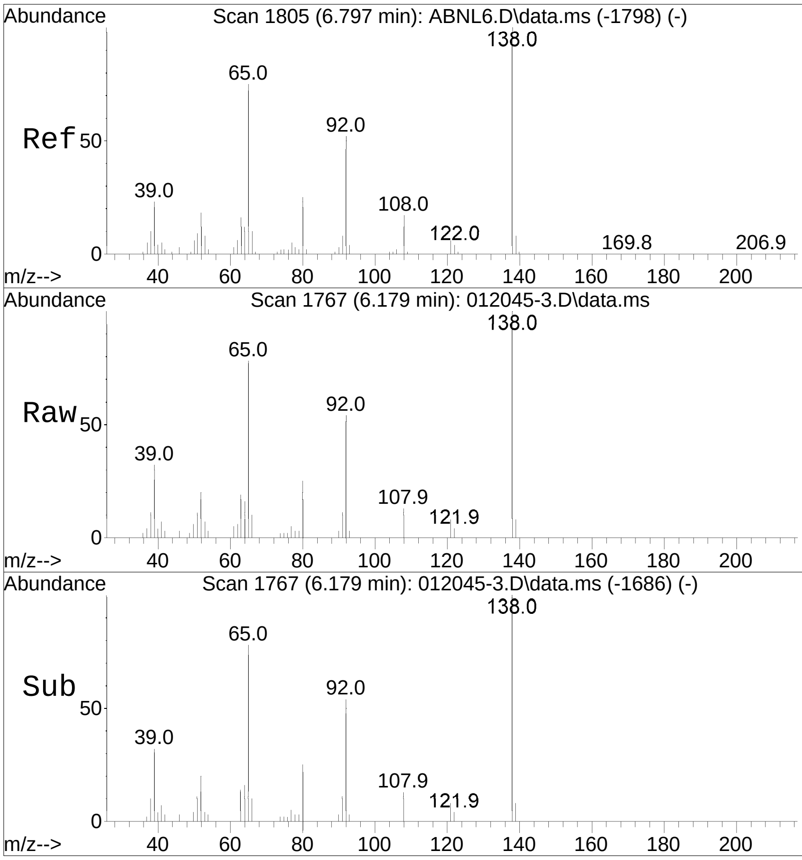





#47
2,4,5-Trichlorophenol
Concen: 1.75 ug/ml
RT: 5.921 min Scan# 1684
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:196 Resp: 12040

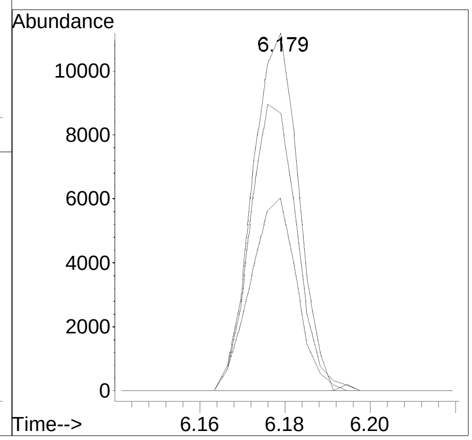
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 200 | 31.5 | 25.4 | 38.0 |
| 198 | 93.6 | 78.0 | 117.0 |

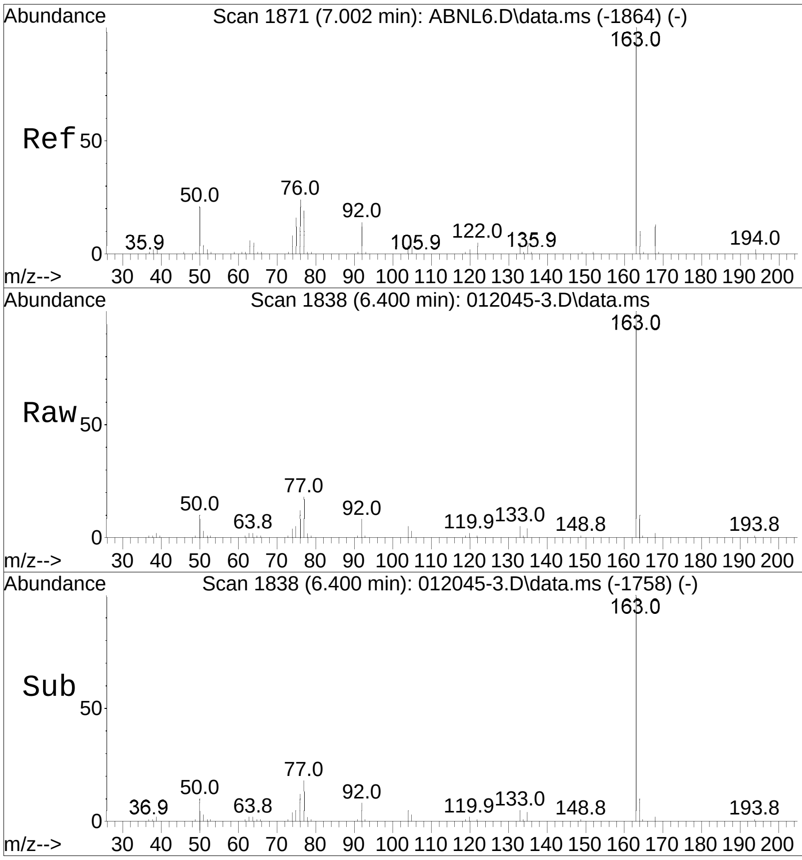



#50
2-Nitroaniline
Concen: 1.80 ug/ml
RT: 6.179 min Scan# 1767
Delta R.T. 0.003 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:138 Resp: 8422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 54.1 | 53.5 | 80.3 |
| 65 | 81.4 | 86.3 | 129.5# |

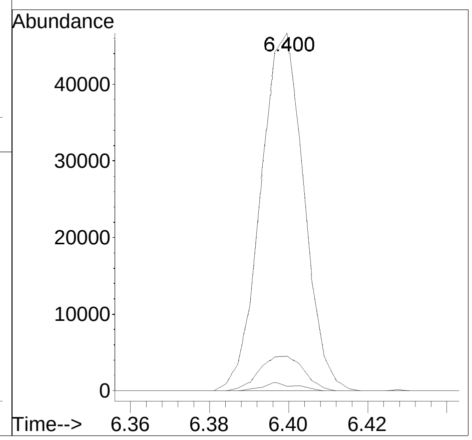


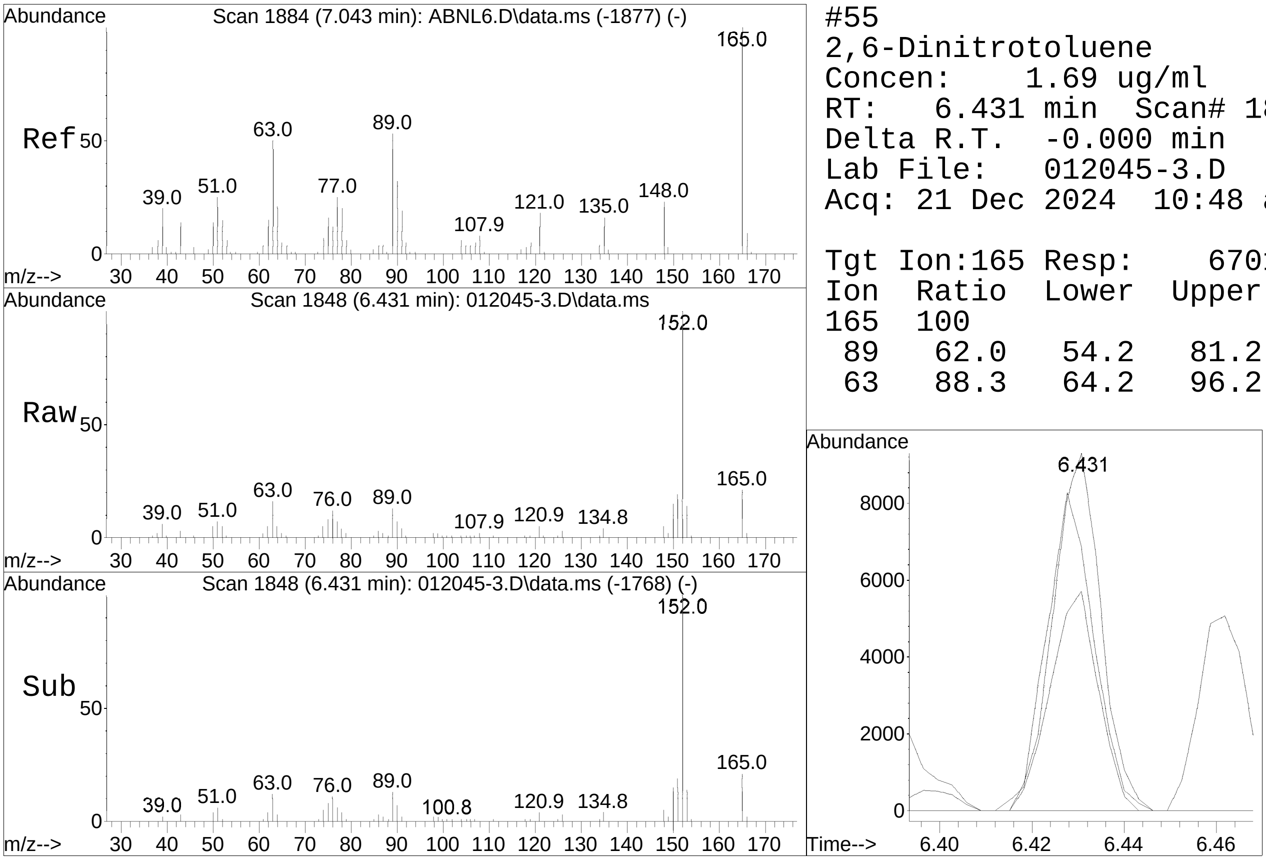



#53
Dimethyl phthalate
Concen: 1.65 ug/ml
RT: 6.400 min Scan# 1838
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:163 Resp: 35209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 1.8 | 3.5 | 5.3# |
| 164 | 10.0 | 7.9 | 11.9 |

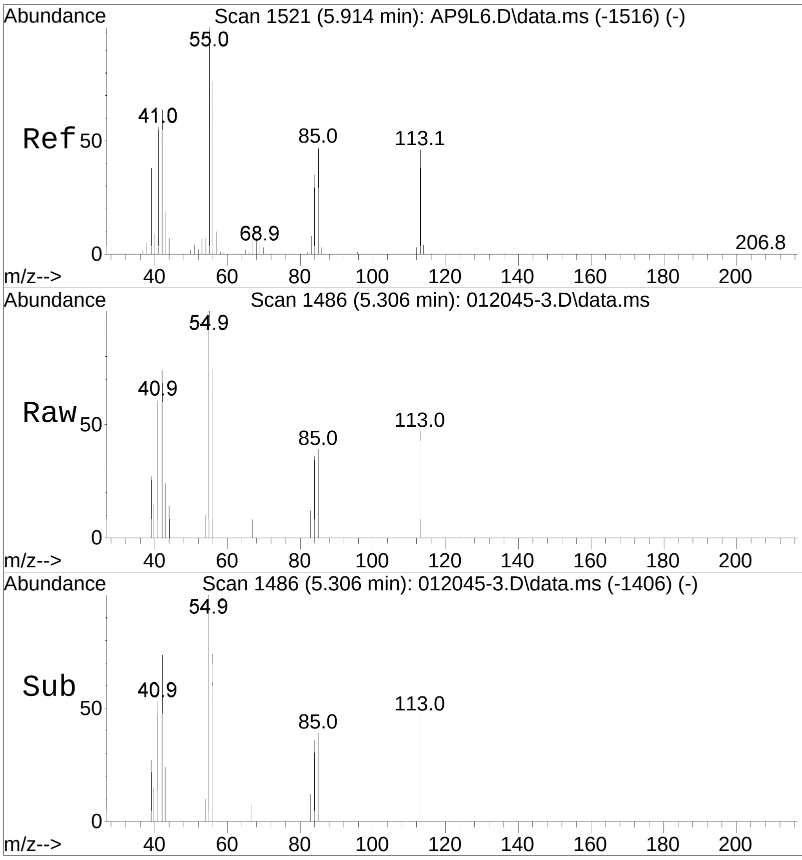





#55
2,6-Dinitrotoluene
Concen: 1.69 ug/ml
RT: 6.431 min Scan# 1848
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:165 Resp: 6701

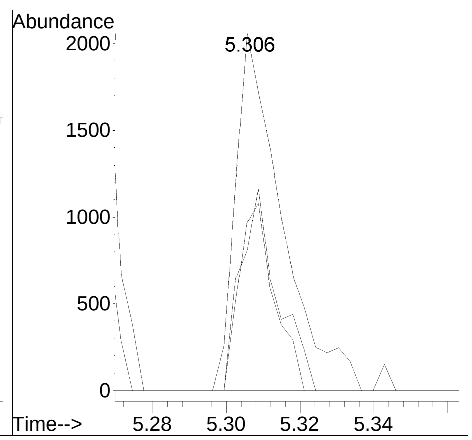
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 62.0 | 54.2 | 81.2 |
| 63 | 88.3 | 64.2 | 96.2 |

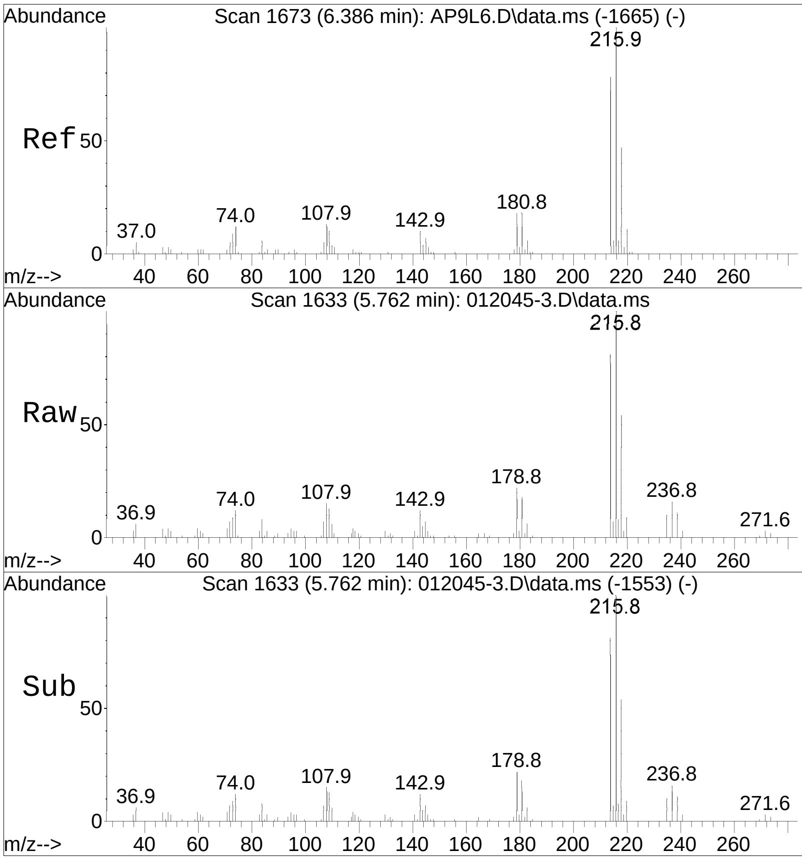



#62
Caprolactam
Concen: 0.68 ug/ml
RT: 5.306 min Scan# 1486
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion: 55 Resp: 1795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 55 | 100 | | |
| 85 | 45.1 | 19.8 | 29.6# |
| 113 | 39.7 | 29.6 | 44.4 |

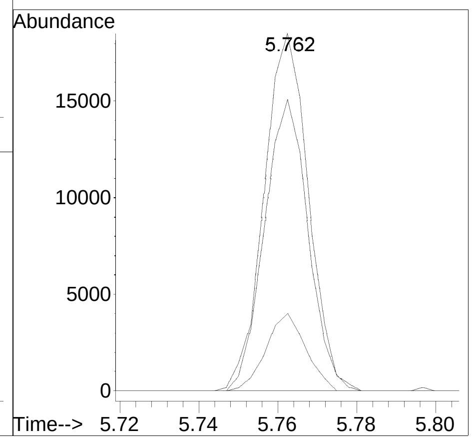


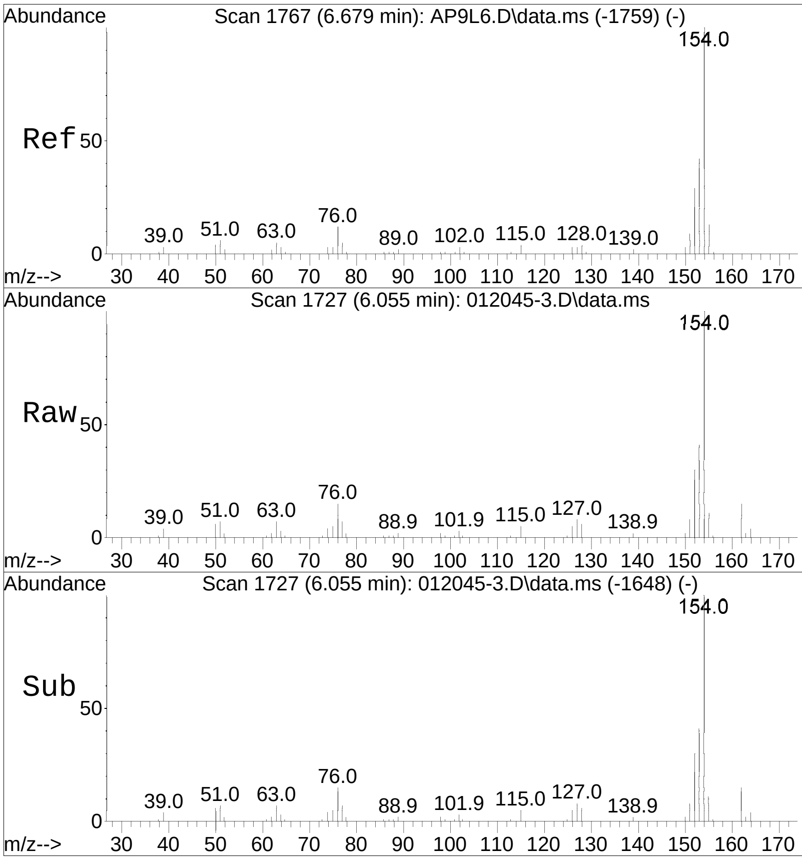



#63
1,2,4,5-Tetrachlorobenzene
Concen: 1.63 ug/ml
RT: 5.762 min Scan# 1633
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:216 Resp: 14411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 80.3 | 63.7 | 95.5 |
| 179 | 19.4 | 19.0 | 28.6 |

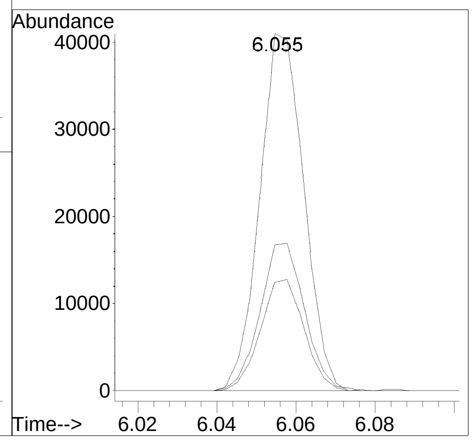


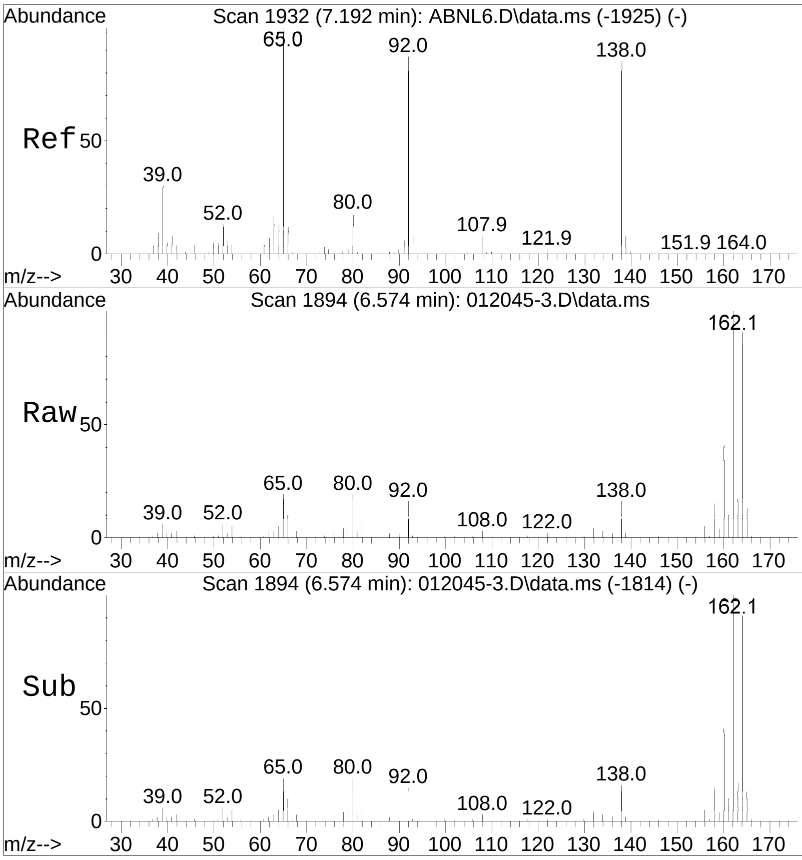



#64
Biphenyl
Concen: 1.75 ug/ml
RT: 6.055 min Scan# 1727
Delta R.T. -0.003 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:154 Resp: 31688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 41.7 | 32.3 | 48.5 |
| 152 | 30.9 | 22.5 | 33.7 |

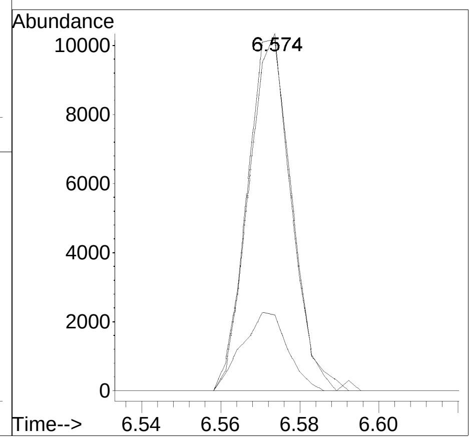


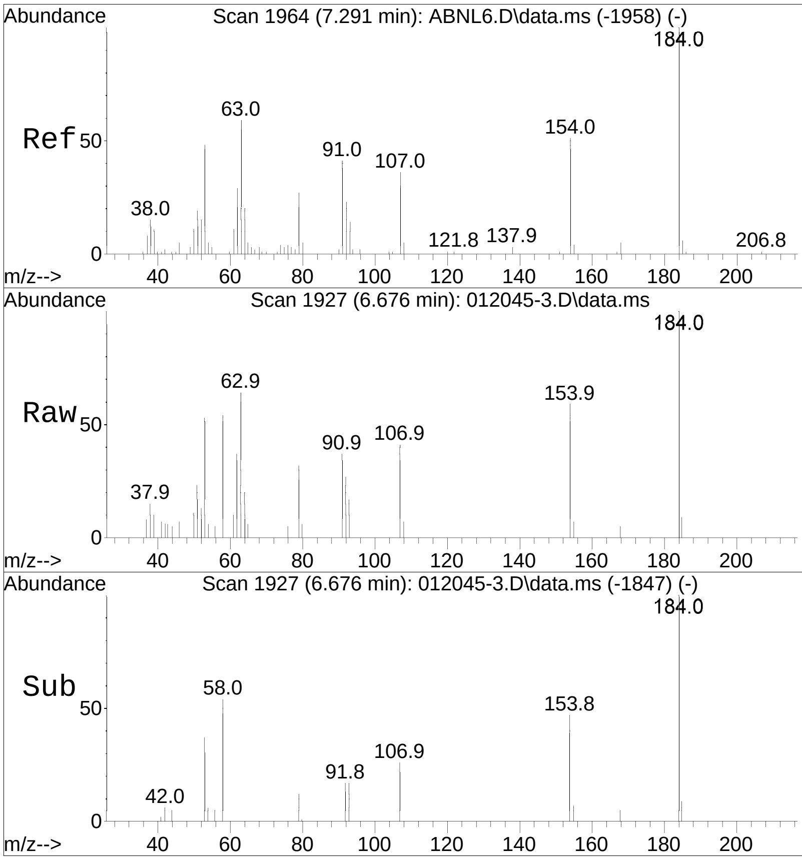



#66
3-Nitroaniline
Concen: 1.71 ug/ml
RT: 6.574 min Scan# 1894
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:138 Resp: 7676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 104.5 | 93.4 | 140.2 |
| 108 | 23.6 | 9.5 | 14.3# |

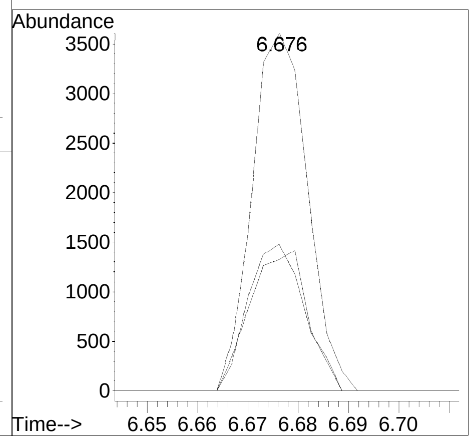


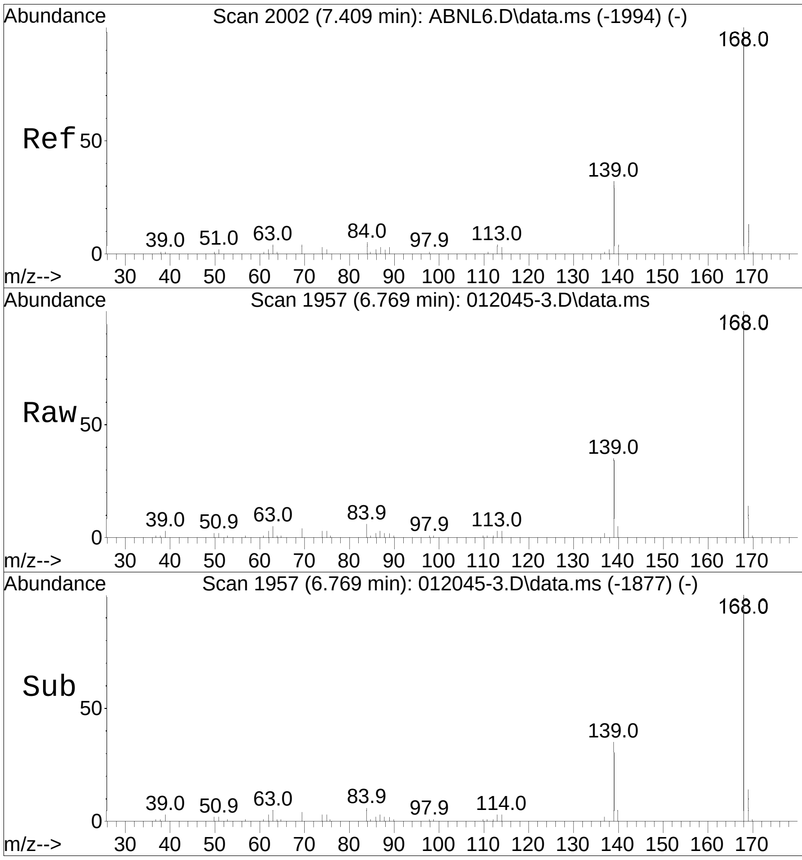



#68
2,4-Dinitrophenol
Concen: 1.01 ug/ml
RT: 6.676 min Scan# 1927
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:184 Resp: 2758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 107 | 41.9 | 37.7 | 56.5 |
| 91 | 41.2 | 46.3 | 69.5# |

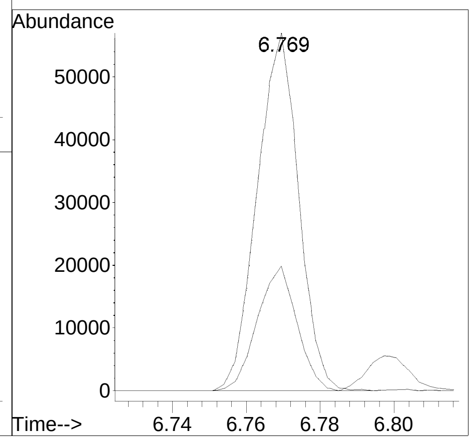


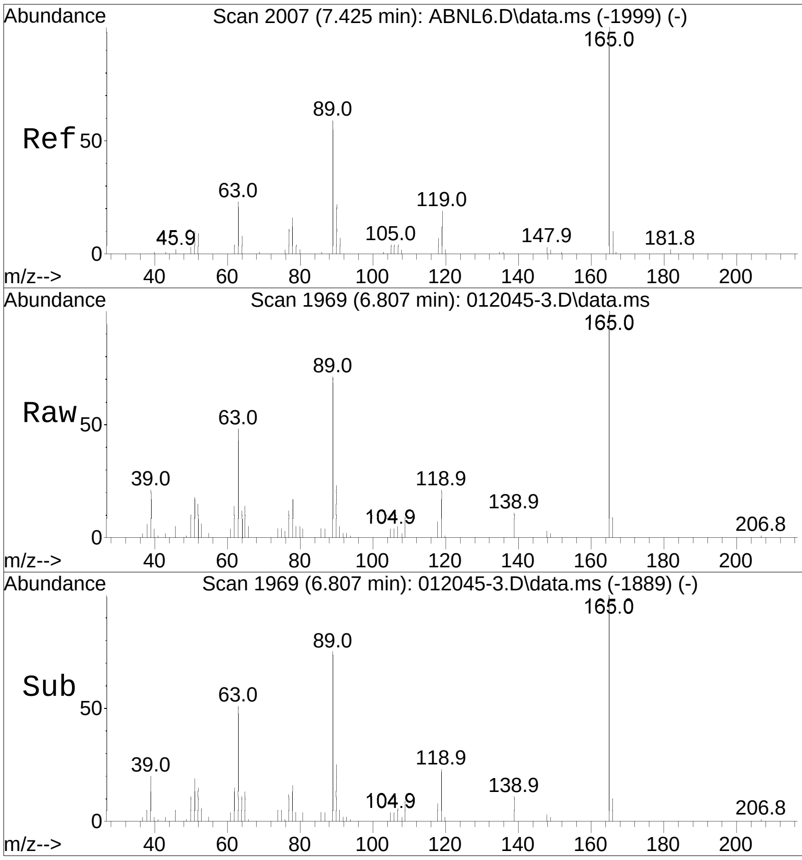



#69
Dibenzofuran
Concen: 1.52 ug/ml
RT: 6.769 min Scan# 1957
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:168 Resp: 44162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 33.3 | 31.4 | 47.2 |

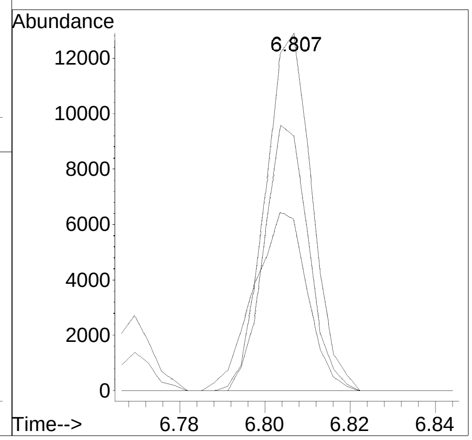


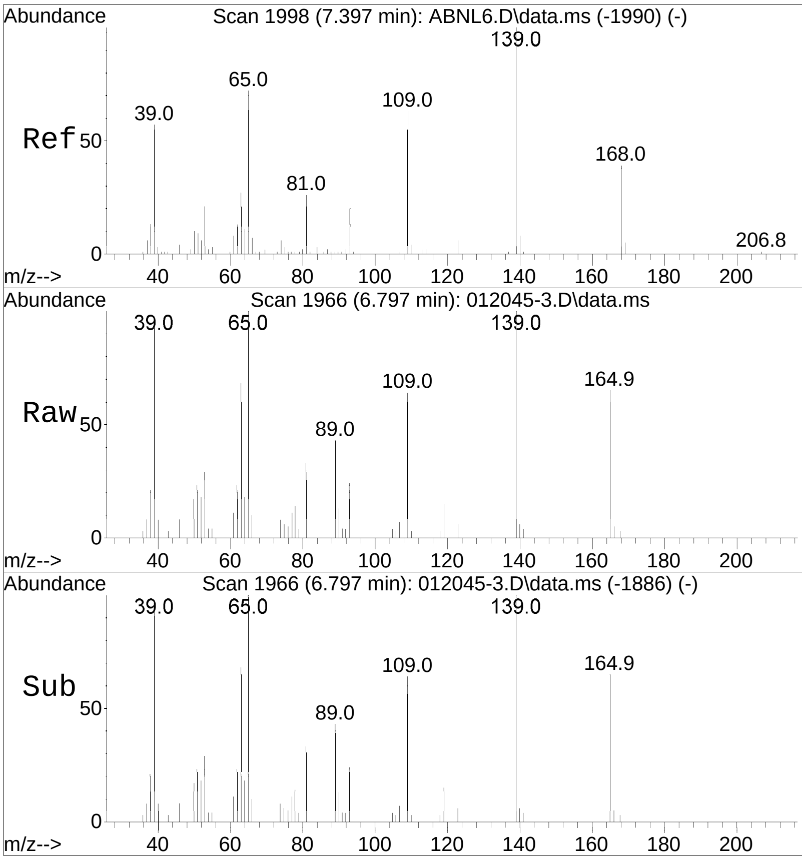



#70
2,4-Dinitrotoluene
Concen: 1.75 ug/ml
RT: 6.807 min Scan# 1969
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:165 Resp: 9802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 70.8 | 72.0 | 108.0# |
| 63 | 57.5 | 52.7 | 79.1 |

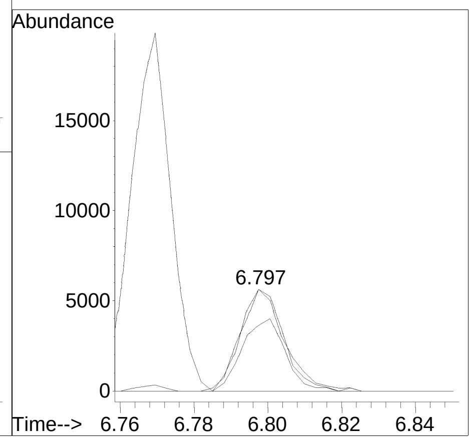


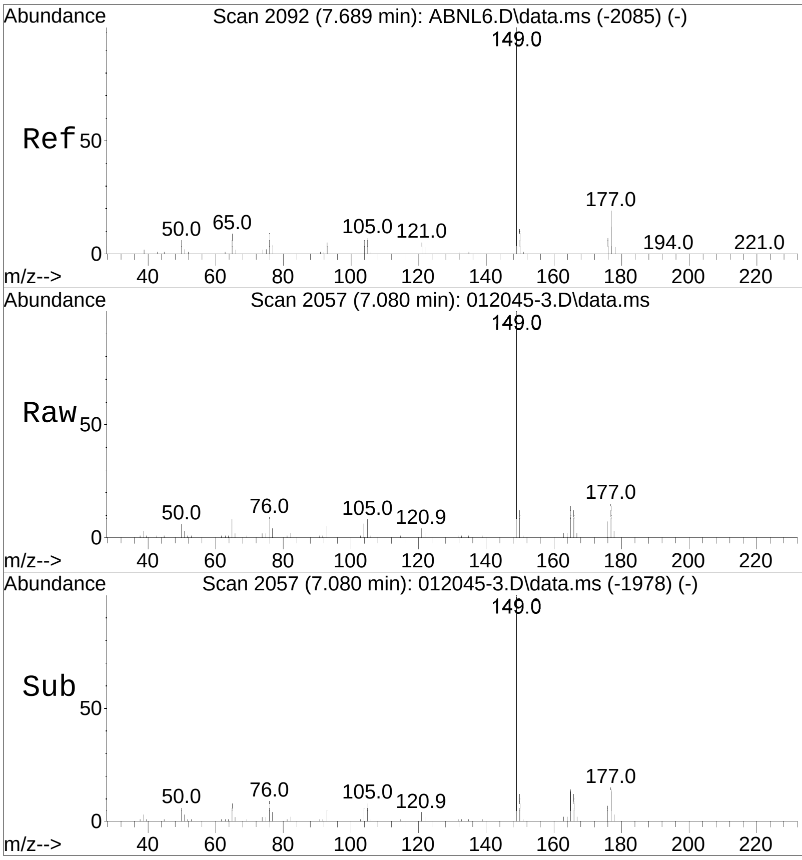



#71
4-Nitrophenol
Concen: 1.40 ug/ml
RT: 6.797 min Scan# 1966
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion: 65 Resp: 4677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 109 | 68.8 | 47.4 | 71.2 |
| 139 | 98.3 | 76.6 | 115.0 |

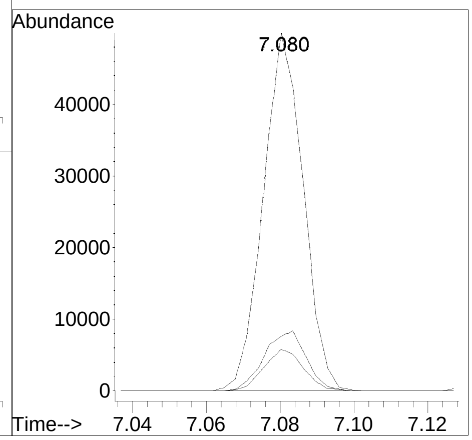


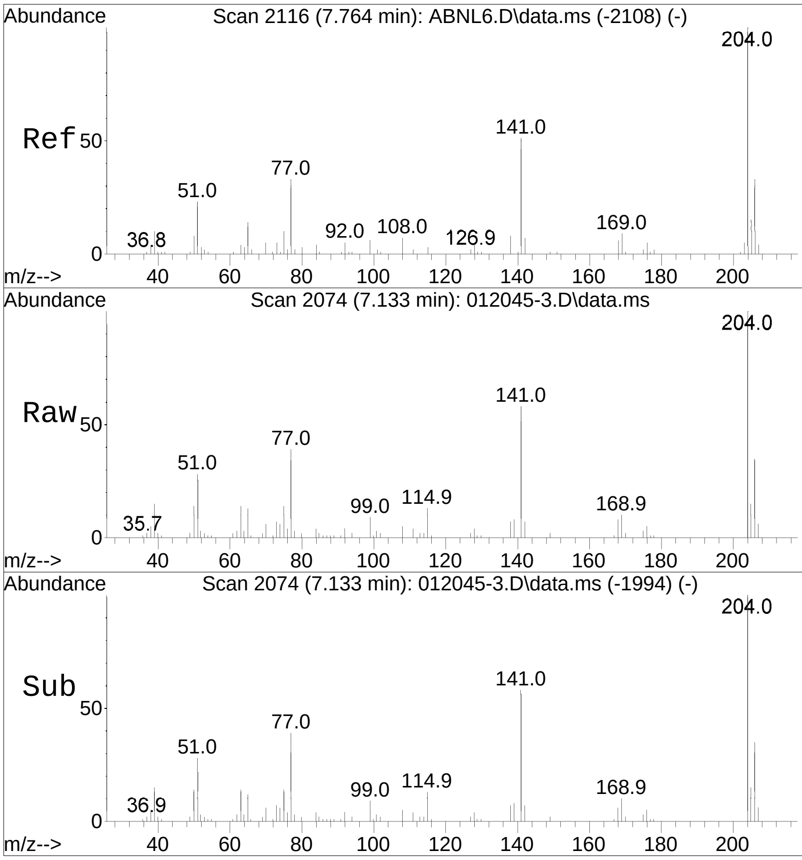



#74
Diethyl phthalate
Concen: 1.64 ug/ml
RT: 7.080 min Scan# 2057
Delta R.T. -0.003 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:149 Resp: 37376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 17.7 | 16.1 | 24.1 |
| 150 | 11.6 | 9.4 | 14.2 |

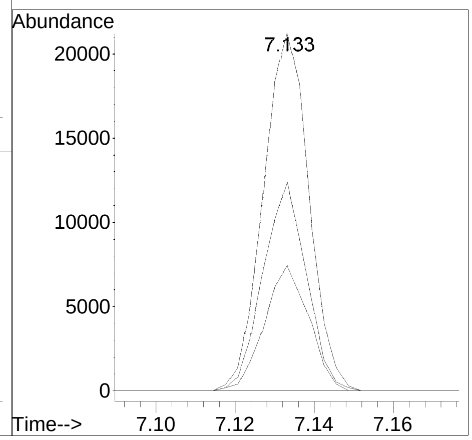


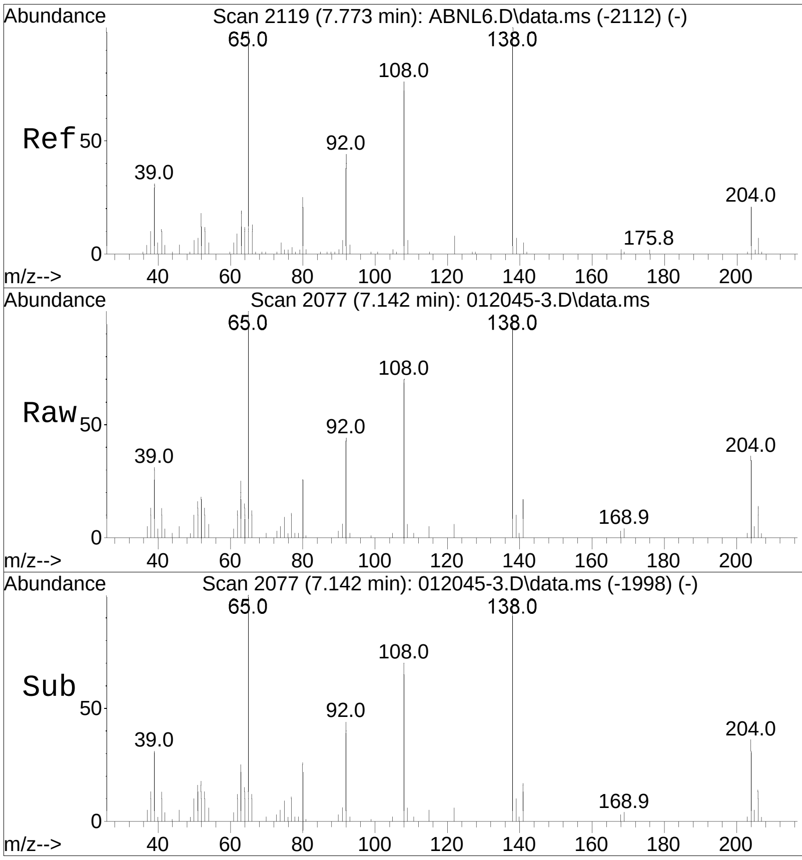



#76
4-Chlorophenyl phenyl ether
Concen: 1.48 ug/ml
RT: 7.133 min Scan# 2074
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:204 Resp: 16993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 34.1 | 25.8 | 38.6 |
| 141 | 55.5 | 53.6 | 80.4 |

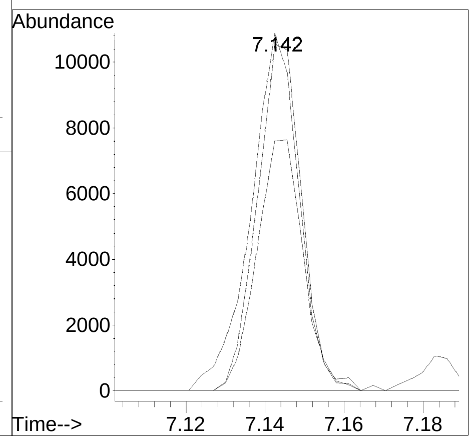


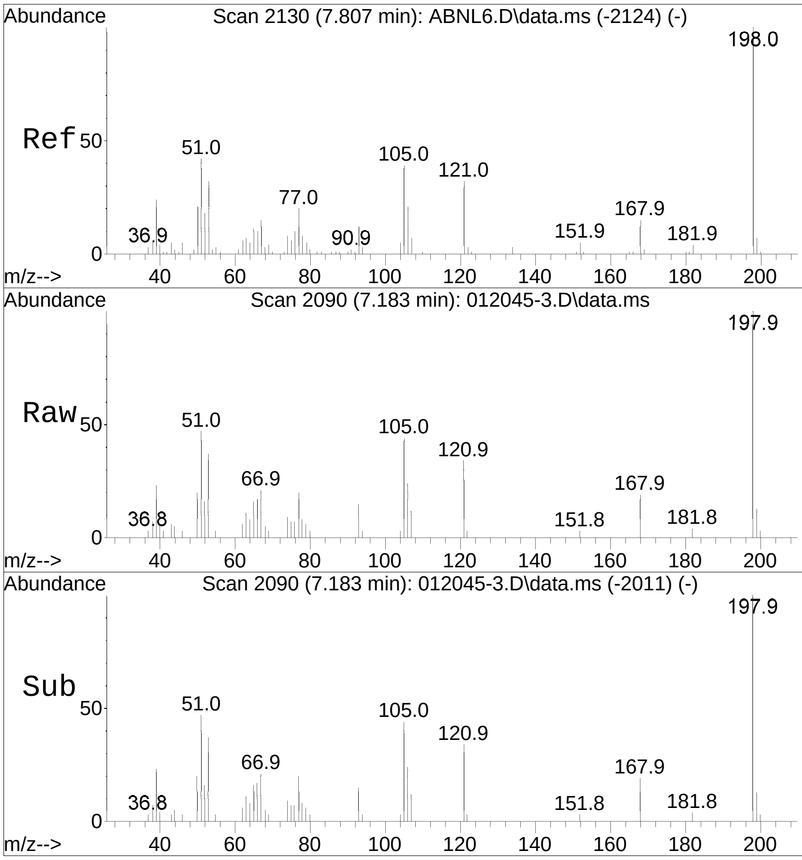



#77
4-Nitroaniline
Concen: 1.93 ug/ml
RT: 7.142 min Scan# 2077
Delta R.T. -0.003 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:138 Resp: 8341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 74.7 | 52.1 | 78.1 |
| 65 | 110.1 | 115.0 | 172.6# |

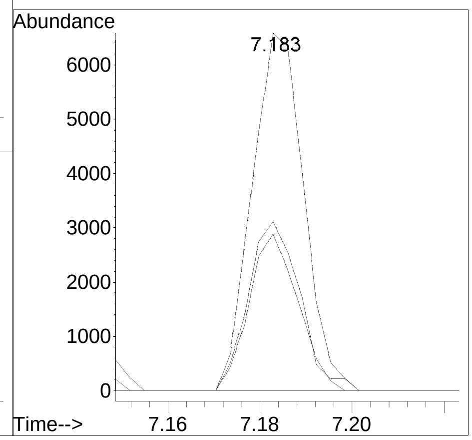


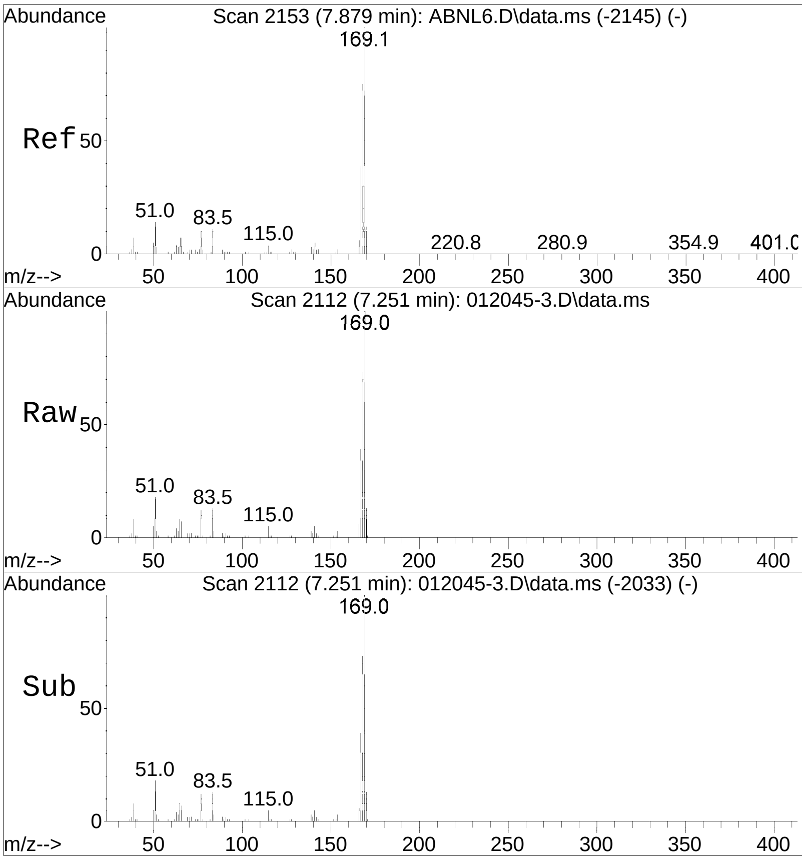



#78
4,6-Dinitro-o-cresol
Concen: 1.51 ug/ml
RT: 7.183 min Scan# 2090
Delta R.T. -0.003 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:198 Resp: 5123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 47.3 | 76.0 | 114.0# |
| 105 | 41.8 | 45.6 | 68.4# |

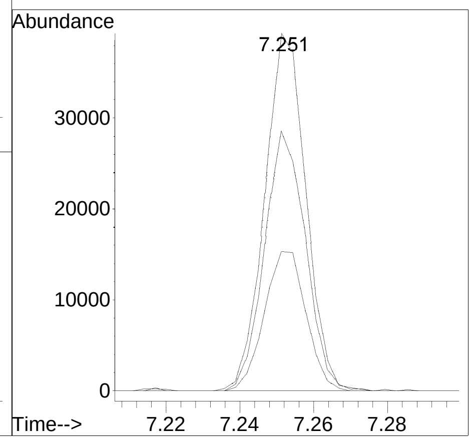


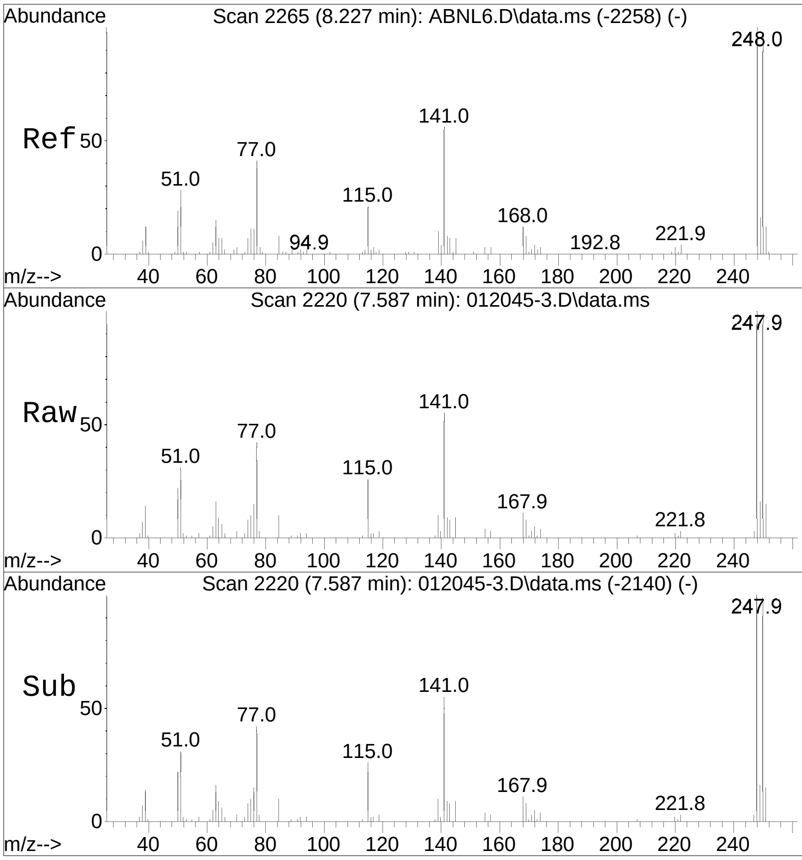



#79
NDPA/DPA
Concen: 1.57 ug/ml
RT: 7.251 min Scan# 2112
Delta R.T. -0.003 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:169 Resp: 30421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 72.6 | 54.0 | 81.0 |
| 167 | 39.6 | 28.6 | 42.8 |

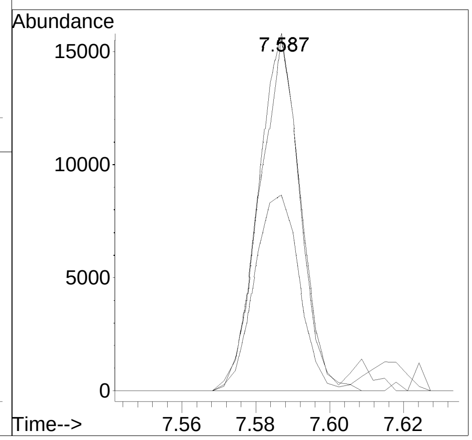


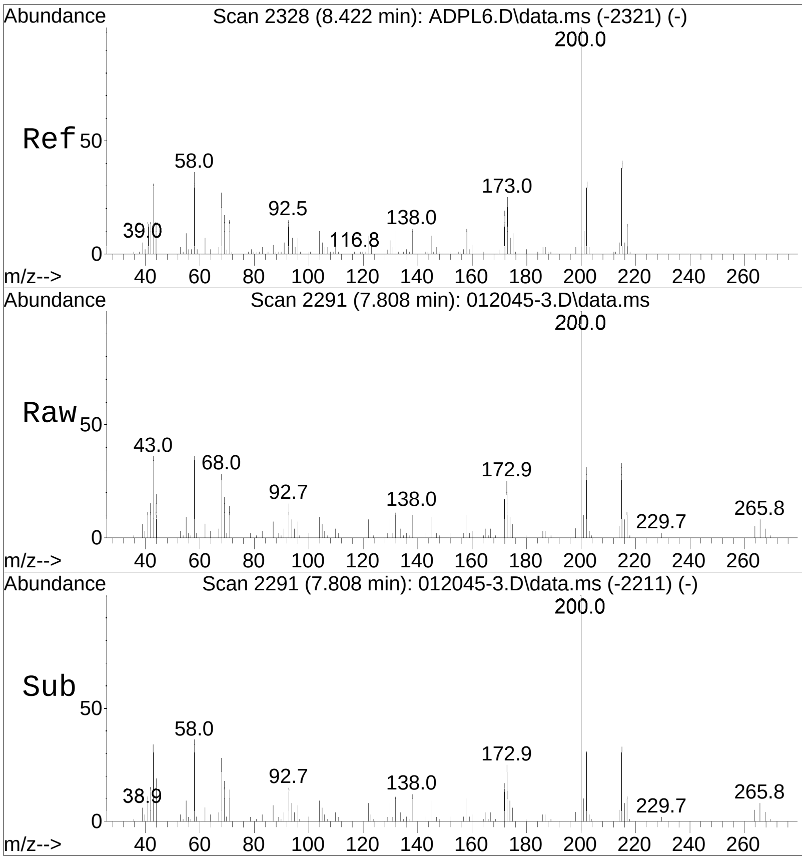



#82
4-Bromophenyl phenyl ether
Concen:    1.66 ug/ml
RT:   7.587 min  Scan# 2220
Delta R.T.  -0.000 min
Lab File:   012045-3.D
Acq: 21 Dec 2024  10:48 am

Tgt Ion:248 Resp:   12532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 141 | 58.7 | 76.6 | 114.8# |
| 250 | 94.1 | 77.3 | 115.9 |

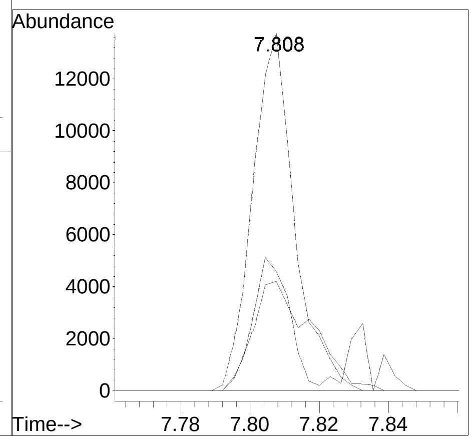


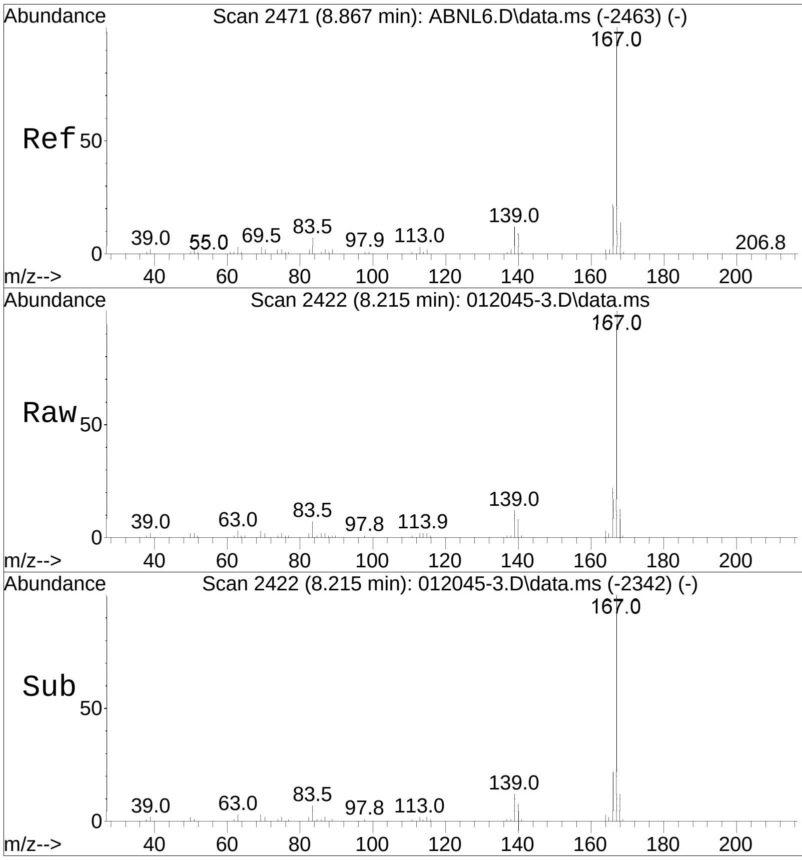



#89
Atrazine
Concen: 2.32 ug/ml
RT: 7.808 min Scan# 2291
Delta R.T. 0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:200 Resp: 11551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 202 | 42.7 | 25.8 | 38.6# |
| 215 | 33.0 | 40.2 | 60.4# |

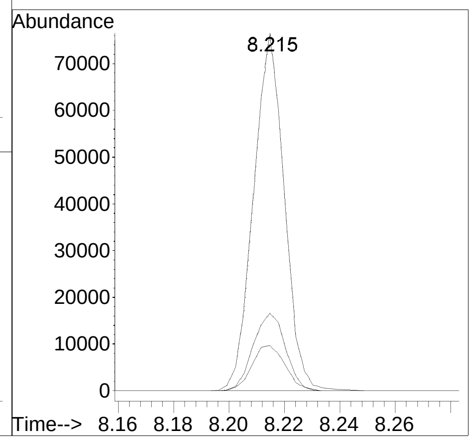


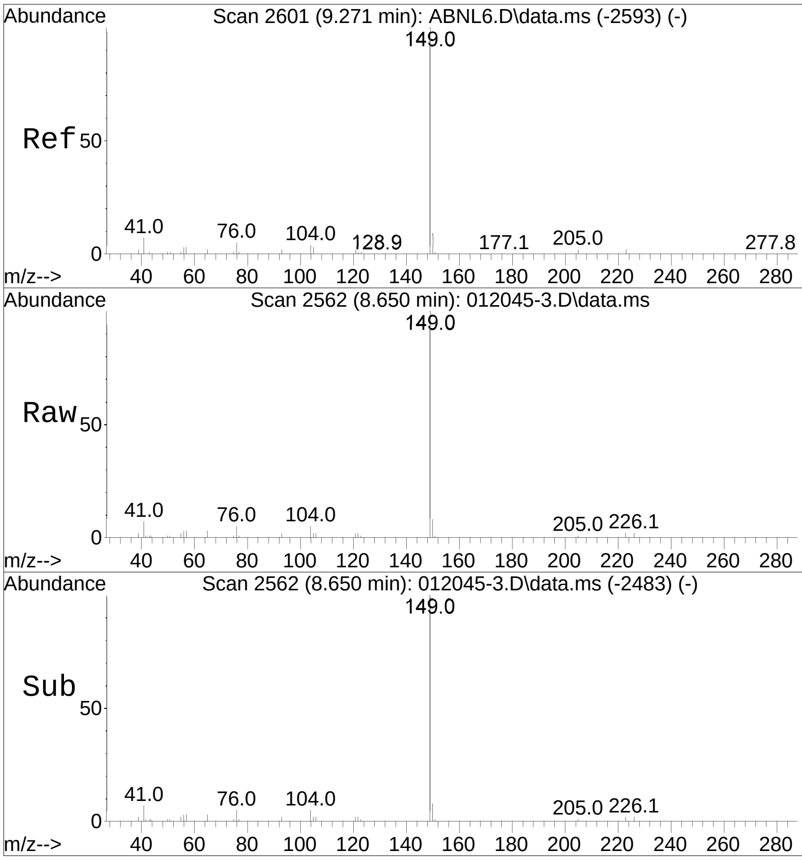



#93
Carbazole
Concen: 1.63 ug/ml
RT: 8.215 min Scan# 2422
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:167 Resp: 58672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 168 | 13.8 | 10.6 | 15.8 |
| 166 | 22.9 | 17.4 | 26.0 |

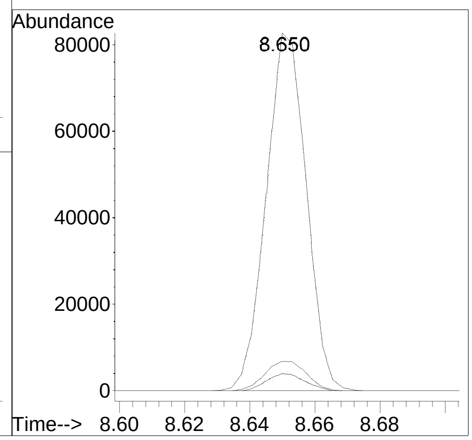


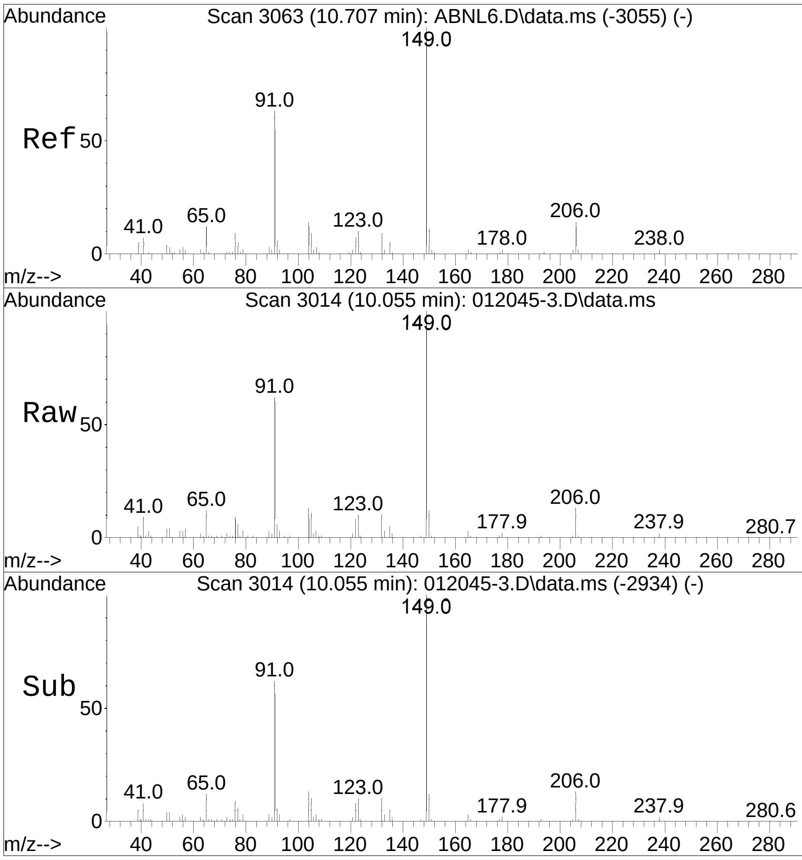



#94
Di-n-butylphthalate
Concen: 1.72 ug/ml
RT: 8.650 min Scan# 2562
Delta R.T. -0.003 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:149 Resp: 70271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 8.7 | 7.0 | 10.6 |
| 104 | 4.6 | 4.5 | 6.7 |

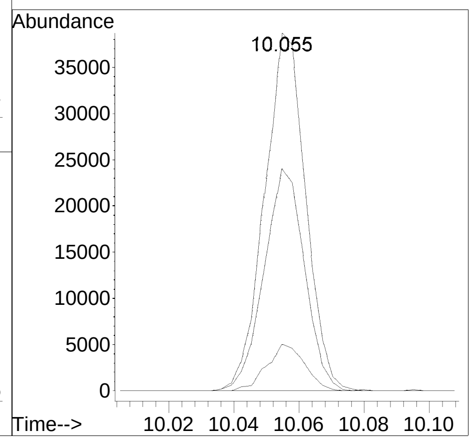


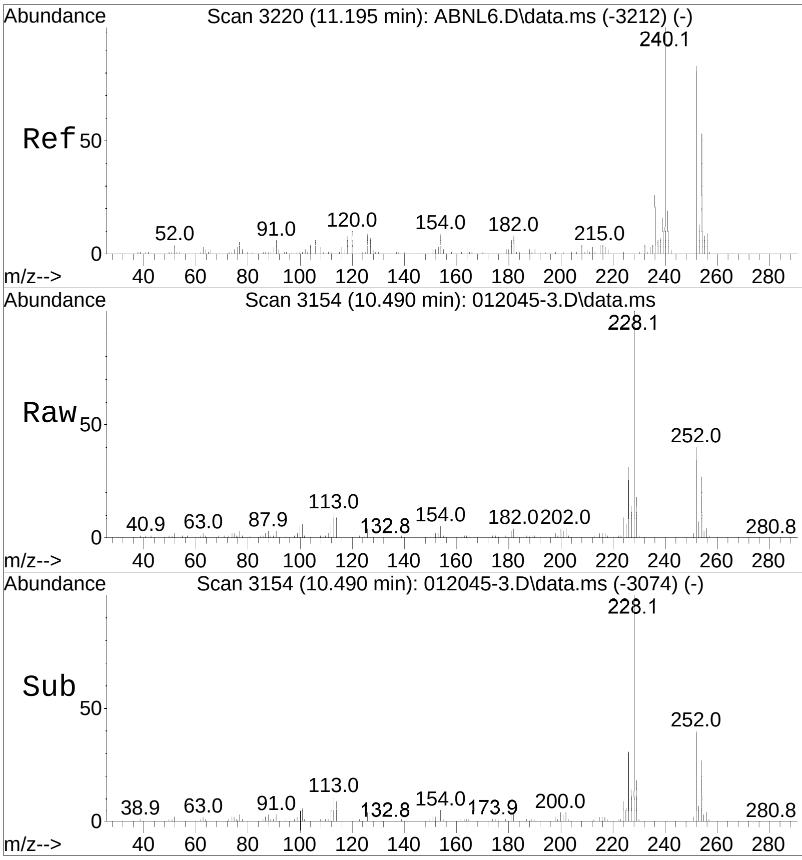



#99
Butyl benzyl phthalate
Concen: 1.93 ug/ml
RT: 10.055 min Scan# 3014
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:149 Resp: 33719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 61.5 | 63.3 | 94.9# |
| 206 | 12.1 | 13.9 | 20.9# |

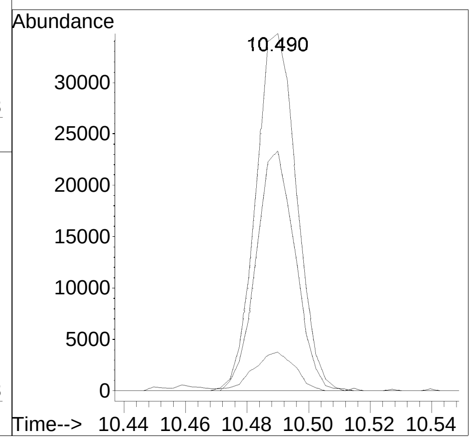


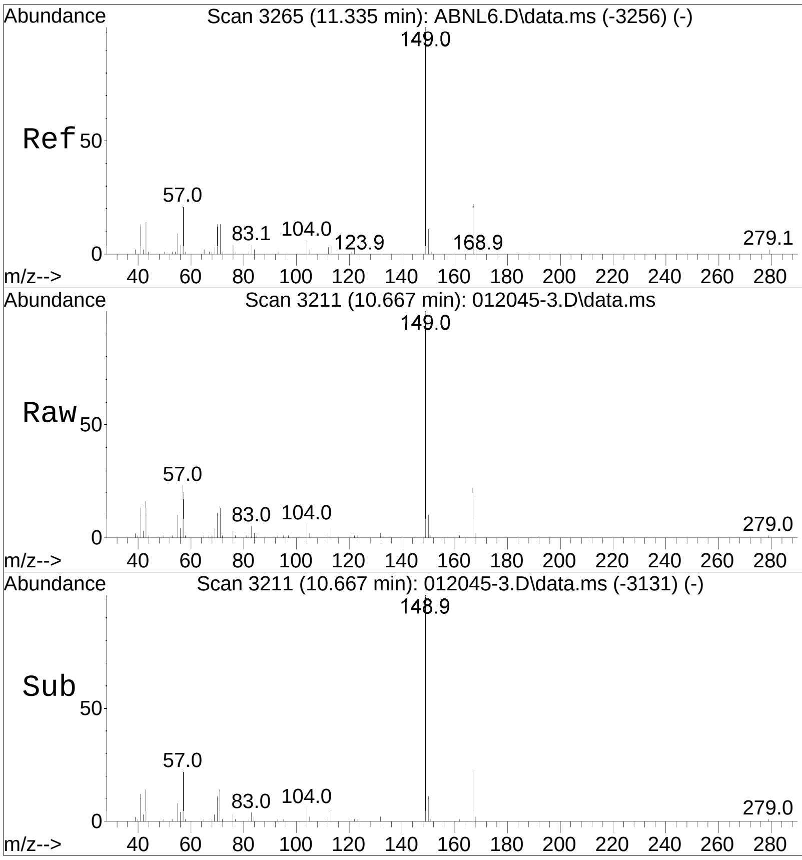



#108
3,3'-Dichlorobenzidine
Concen: 1.62 ug/ml
RT: 10.490 min Scan# 3154
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:252 Resp: 32080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 126 | 11.1 | 14.5 | 21.7# |
| 254 | 64.5 | 51.2 | 76.8 |

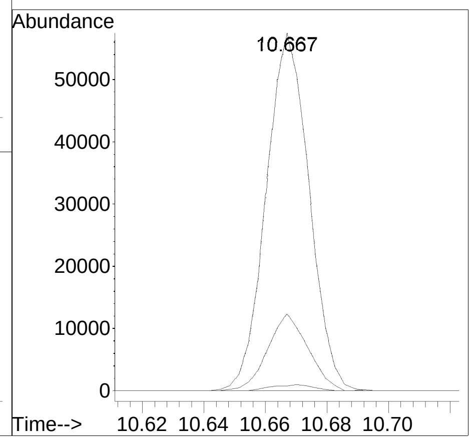


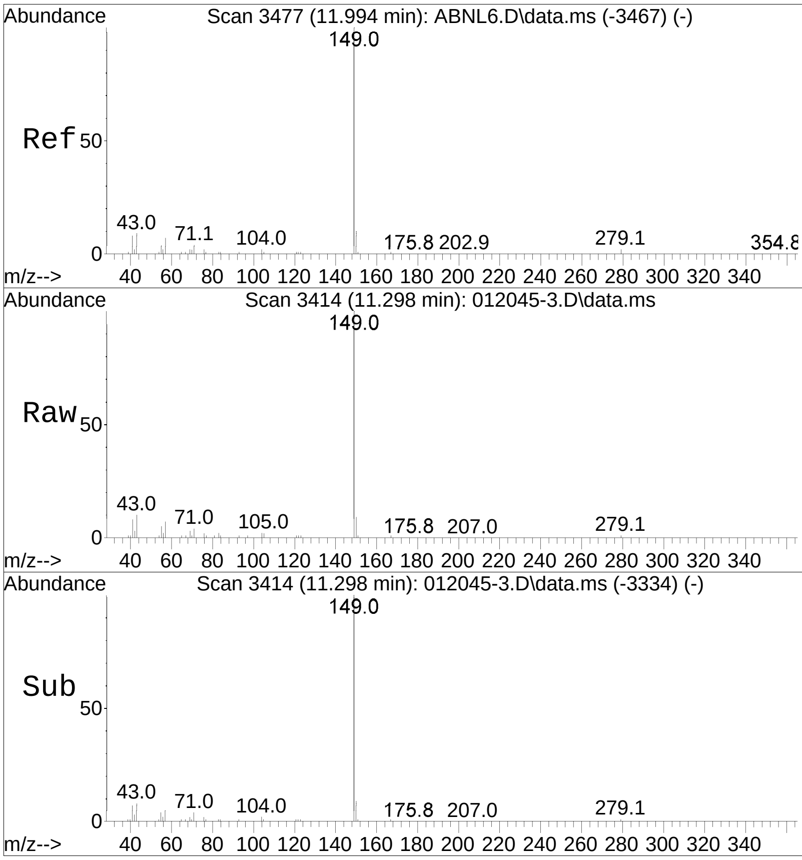



#110
Bis(2-ethylhexyl)phthalate
Concen: 1.94 ug/ml
RT: 10.667 min Scan# 3211
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:149 Resp: 55441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 20.1 | 22.1 | 33.1# |
| 279 | 1.5 | 3.0 | 4.4# |

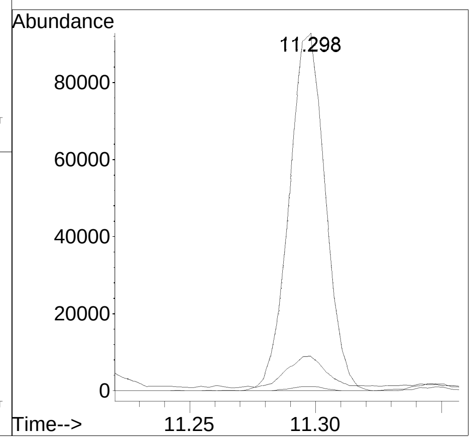





#111
Di-n-octylphthalate
Concen: 1.94 ug/ml
RT: 11.298 min Scan# 3414
Delta R.T. -0.000 min
Lab File: 012045-3.D
Acq: 21 Dec 2024 10:48 am

Tgt Ion:149 Resp: 92420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 43 | 10.1 | 18.8 | 28.2# |
| 167 | 1.2 | 1.3 | 1.9# |



# **Calculation of Semi Volatile Organic Compounds**

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Dec 24 2024, 08:05 am

Work Group: WG2012045 for Department: 2 Organic Preparation

Created: 20-DEC-24 Due: Operator: LJO

| Sample | Client ID | C | Product | Matrix | Stat | UA | HOLD | DUE | PR | Location |
|---|---|---|---|---|---|---|---|---|---|---|
| L2474156-01 | TW-05 | C | NYTCL-8270-RVT | WATER | DONE | U | 1224 | 1224 | S0 | Amber-A.1 |
| L2474239-01 | TW-2 | C | NYTCL-8270-RVT | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.1 |
| L2474239-02 | TW-3 | C | NYTCL-8270-RVT | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.1 |
| L2474239-03 | TW-1 | C | NYTCL-8270-RVT | WATER | DONE | U | 1224 | 1224 | S0 | Amber-A.1 |
| L2474239-04 | TW-4 | C | NYTCL-8270-RVT | WATER | DONE | U | 1224 | 1224 | S0 | Amber-A.1 |
| L2474239-05 | TW-5 | C | NYTCL-8270-RVT | WATER | DONE | U | 1224 | 1224 | S0 | Amber-A.1 |
| L2474329-01 | MW-4S | C | NYTCL-8270-RVT | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.1 |
| L2474329-02 | MW-4D2 | C | NYTCL-8270-RVT | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.1 |
| L2474329-03 | MW-12S | C | NYTCL-8270-RVT | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.1 |
| L2474329-04 | MW-12D | C | NYTCL-8270-RVT | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.1 |
| L2474329-05 | EB-12162024 | C | NYTCL-8270-RVT | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.1 |
| L2474344-01 | MW-4 | C | NYTCL-8270-RVT | WATER | DONE | U | 1224 | 1224 | S0 | Amber-A.1 |
| L2474344-02 | MW-5 | C | NYTCL-8270-RVT | WATER | DONE | U | 1224 | 1224 | S0 | Amber-A.1 |
| L2474344-03 | MW-6 | C | NYTCL-8270-RVT | WATER | DONE | U | 1224 | 1224 | S0 | Amber-A.1 |
| L2474344-04 | FB20241217 | C | NYTCL-8270-RVT | WATER | DONE | U | 1224 | 1224 | S0 | Amber-A.1 |
| L2474344-06 | DUP20241217 | C | NYTCL-8270-RVT | WATER | DONE | U | 1224 | 1224 | S0 | Amber-A.1 |
| WG2012045-1 | Laboratory Method Bl | S | NYTCL-8270-RVT | WATER | DONE | U | | | | |
| WG2012045-2 | Laboratory Control S | S | NYTCL-8270-RVT | WATER | DONE | U | | | | |
| WG2012045-3 | LCS Duplicate | S | NYTCL-8270-RVT | WATER | DONE | U | | | | |

Comments:

WG2012045-3 WG2012045-2

Dep.: GCMS
Inst: DAKOTA
Date: **11/05/24**
Run: ICAL

Method
GC: ABNRVT

Seq: WG1994500

| Vial | Data File | Sample | CCAL/Notes | Screen | Verified | Initials |
|---|---|---|---|---|---|---|
| 100 | Tune1 | Tune1 Lot # 11144 | | | | |
| 1 | ABNL9 | IL2,32,,ABNL50 Lot# 11111 | **Passes Full List** | | | |
| 2 | ABNL8 | IL3,32,,ABNL25 Lot# 11112 | | | | |
| 3 | ABNL7 | IL4,32,,ABNL10 Lot# 11113 | | | | |
| 4 | ABNL6 | IL5,32,,ABNL5 Lot# 11114 | | | | |
| 5 | ABNL5 | IL6,32,,ABNL2.5 Lot# 11115 | | | | |
| 6 | ABNL4 | IL7,32,,ABNL1 Lot# 11116 | | | | |
| 7 | ABNL3 | IL8,32,,ABNL0.5 Lot# 11117 | | | | |
| 8 | ABNL2 | IL9,32,,ABNL0.2 Lot# 11149 | | | | |
| 9 | ABNL1 | IL10,32,,ABNL0.1 Lot# 11150 | | | | |
| 10 | AP9L9 | IL2,32,,AP9L50 Lot# 11120 | | | | |
| 11 | AP9L8 | IL3,32,,AP9L25 Lot# 11121 | | | | |
| 12 | AP9L7 | IL4,32,,AP9L10 Lot# 11122 | | | | |
| 13 | AP9L6 | IL5,32,,AP9L5 Lot# 11123 | | | | |
| 14 | AP9L5 | IL6,32,,AP9L2.5 Lot# 11124 | | | | |
| 15 | AP9L4 | IL7,32,,AP9L1 Lot# 11125 | | | | |
| 16 | AP9L3 | IL8,32,,AP9L0.5 Lot# 11126 | | | | |
| 17 | AP9L2 | IL9,32,,AP9L0.2 Lot# 11127 | | | | |
| 18 | AP9L1 | IL10,32,,AP9L0.1 Lot# 11128 | | | | |
| 19 | ABNICV | CQICV1,32,,ABNICV Lot# 11138 | | | | |
| 20 | AP9ICV | CQICV2,32,,AP9ICV Lot# 11139 | | | | |
| 100 | Tune2 | Tune2 Lot # 11144 | | | | |
| 21 | ADPL9 | IL2,32,,ADPL50 Lot# 11129 | | | | |
| 22 | ADPL8 | IL3,32,,ADPL25 Lot# 11130 | | | | |
| 23 | ADPL7 | IL4,32,,ADPL10 Lot# 11131 | | | | |
| 24 | ADPL6 | IL5,32,,ADPL5 Lot# 11132 | | | | |
| 25 | ADPL5 | IL6,32,,ADPL2.5 Lot# 11133 | | | | |
| 26 | ADPL4 | IL7,32,,ADPL1 Lot# 11134 | | | | |
| 27 | ADPL3 | IL8,32,,ADPL0.5 Lot# 11135 | | | | |
| 28 | ADPL2 | IL9,32,,ADPL0.2 Lot# 11136 | | | | |
| 29 | ADPL1 | IL10,32,,ADPL0.1 Lot# 11137 | | | | |
| 30 | ADPICV | CQICV,32,,ADPICV Lot# 11140 | | | | |
| 31 | Blank | Instrument Blank | | | | |

Dep.: GCMS
Inst: DAKOTA
Date: **12/21/24**
Run:

Method
GC: ABNRVT

Seq: **WG2012119**
ICAL: 21680

| Vial | Data File | Sample | CCAL/Notes | Screen | Verified | Initials |
|---|---|---|---|---|---|---|
| 100 | DEG1221 | wg-1,32,,Degdftpp Lot # 11210 | | | | smz 12/23 |
| 96 | ABN1221 | wg-3,32,,ABN 11043 HNY120 | **Full List Including TCLP** | | | smz 12/23 |
| 97 | AP91221 | wg-4,32,,AP9 11152 HNY1205A | | | | smz 12/23 |
| 98 | ADP1221 | wg-5,32,,ADP 11153 HNY1205B | | | | smz 12/23 |
| 1 | 011987-1 | WG2011987-1,32,,gmr | | | | smz 12/23 |
| 2 | 011987-2 | WG2011987-2,32,,gmr | | | | smz 12/23 |
| 3 | 011987-3 | WG2011987-3,32,,gmr | | | | smz 12/23 |
| 4 | 011982-1 | WG2011982-1,32,,gmr | | | | smz 12/23 |
| 5 | 011982-2 | WG2011982-2,32,,gmr | | | | smz 12/23 |
| 6 | 011982-3 | WG2011982-3,32,,gmr | | | | smz 12/23 |
| 7 | 012045-1 | WG2012045-1,32,,gmr | | | | smz 12/23 |
| 8 | 012045-2 | WG2012045-2,32,,gmr | | | | smz 12/23 |
| 9 | 012045-3 | WG2012045-3,32,,gmr | | | | smz 12/23 |
| 10 | 73898-05 | L2473898-05,32,,gmr | | | | smz 12/23 |
| 11 | 73734-01 | L2473734-01,32,,gmr | | | | smz 12/23 |
| 12 | 74156-01 | L2474156-01,32,,gmr | | | | smz 12/23 |
| 13 | 74239-01 | L2474239-01,32,,gmr | | | | smz 12/23 |
| 14 | 74239-02 | L2474239-02,32,,gmr | | | | smz 12/23 |
| 15 | 74239-03 | L2474239-03,32,,gmr | | | | smz 12/23 |
| 16 | 74239-04 | L2474239-04,32,,gmr | | | | smz 12/23 |
| 17 | 74239-05 | L2474239-05,32,,gmr | | | | smz 12/23 |
| 18 | 74329-01 | L2474329-01,32,,gmr | | | | smz 12/23 |
| 19 | 74329-02 | L2474329-02,32,,gmr | | | | smz 12/23 |
| 20 | 74329-03 | L2474329-03,32,,gmr | | | | smz 12/23 |
| 21 | 74329-04 | L2474329-04,32,,gmr | | | | smz 12/23 |
| 22 | 74329-05 | L2474329-05,32,,gmr | | | | smz 12/23 |
| 23 | 74344-01 | L2474344-01,32,,gmr | | | | smz 12/23 |
| 24 | 74344-02 | L2474344-02,32,,gmr | | | | smz 12/23 |
| 25 | 74344-03 | L2474344-03,32,,gmr | | | | smz 12/23 |
| 26 | 74344-04 | L2474344-04,32,,gmr | | | | smz 12/23 |
| 27 | 74344-06 | L2474344-06,32,,gmr | | | **gmr** | |
| | | | | | **sv-cmm** | |

# ORGANIC ELN REPORT

**Workgroup:** WG2012045

**Prep Method:** EPA 3510C
**Solvent Type:** DCM **Lot #:** EJ507
**Surrogate Type:** ABN **Lot #:** 11164av,05/20/2025,4c,7,1
**Spike Type:** ABN **Lot #:** 11106aj,04/23/2025 ;; 11092ac,
**Spike Verify by:** LJO
**Lims Spikelot:** 8270-RVT

**Additional Reagents/Stds**

| | |
|---|---|
| H2SO4 | A120224 |
| Na2SO4 | 23K2961078 |
| NaOH | 10NNaOH120224 |

**Conc.Method:** Buchi
**Solvent Type:** DCM
**Lot #:** EJ507

**Additional Reagents/Stds**

***Cleanup 1***

**Cleanup Method 1:**
**Cleanup Method 2:**
**Solvent Type:** **Lot #:**

**Additional Reagents/Stds**

| Sample/ Type | Extraction: Extract Date | Analyst | Sample Vol ml | Ph | Surr Amt ml | Spike Amt ml | Concentration: Conc Date | Analyst | Final Vol ml | Conc Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| L2474156-01 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474239-01 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474239-02 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474239-03 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474239-04 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |



Reported: 24-DEC-24 08:05 AM

# ORGANIC ELN REPORT

**Workgroup:** **WG2012045**

| Sample/ Type | Extraction: Extract Date | Analyst | Sample Vol ml | Ph | Surr Amt ml | Spike Amt ml | Concentration: Conc Date | Analyst | Final Vol ml | Conc Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| L2474239-05 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474329-01 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474329-02 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474329-03 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474329-04 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474329-05 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474344-01 WATER | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474344-02 WATER | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |



Reported: 24-DEC-24 08:05 AM

# ORGANIC ELN REPORT

**Workgroup: WG2012045**

| Sample/ Type | Extraction: Extract Date | Analyst | Sample Vol ml | Ph | Surr Amt ml | Spike Amt ml | Concentration: Conc Date | Analyst | Final Vol ml | Conc Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| L2474344-03 WATER | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474344-04 WATER | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474344-06 WATER | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| WG2012045-1 BLANK | 12/20/24 21:39 **COMBO WITH WG2012049** | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| WG2012045-2 LCS | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | .1 | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| WG2012045-3 LCSD | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | .1 | 12/21/24 01:26 | Shaylee Amidon | 1 | K |



Reported: 24-DEC-24 08:05 AM

# 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: L2474329**
**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-4S (L2474329-01) | 51 | 37 | 110 | 81 | 92 | 80 | 0 |
| MW-4D2 (L2474329-02) | 45 | 33 | 97 | 72 | 71 | 75 | 0 |
| MW-12S (L2474329-03) | 50 | 38 | 107 | 82 | 88 | 80 | 0 |
| MW-12D (L2474329-04) | 50 | 37 | 108 | 82 | 84 | 77 | 0 |
| EB-12162024 (L2474329-05) | 52 | 40 | 103 | 78 | 77 | 75 | 0 |
| WG2012049-1BLANK | 47 | 36 | 82 | 77 | 74 | 99 | 0 |
| WG2012049-2LCS | 57 | 44 | 82 | 77 | 108 | 97 | 0 |
| WG2012049-3LCSD | 62 | 47 | 86 | 79 | 113 | 100 | 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 : L2474329
Project Name : CORAM MATERIALS
Project Number : 2232.0006Y005
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG2012049-2 Analysis Date : 12/22/24 12:18 File ID : 012049-2
LCSD Sample ID : WG2012049-3 Analysis Date : 12/22/24 12:35 File ID : 012049-3

| | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Parameter | True (ug/l) | Found (ug/l) | %R | True (ug/l) | Found (ug/l) | %R | RPD | Recovery Limits | RPD Limit |
| Acenaphthene | 20 | 18 | 88 | 20 | 19 | 94 | 7 | 40-140 | 40 |
| 2-Chloronaphthalene | 20 | 16 | 78 | 20 | 16 | 82 | 5 | 40-140 | 40 |
| Fluoranthene | 20 | 22 | 108 | 20 | 22 | 112 | 4 | 40-140 | 40 |
| Hexachlorobutadiene | 20 | 13 | 66 | 20 | 14 | 70 | 6 | 40-140 | 40 |
| Naphthalene | 20 | 15 | 76 | 20 | 16 | 81 | 6 | 40-140 | 40 |
| Benzo(a)anthracene | 20 | 22 | 108 | 20 | 23 | 114 | 5 | 40-140 | 40 |
| Benzo(a)pyrene | 20 | 22 | 112 | 20 | 24 | 118 | 5 | 40-140 | 40 |
| Benzo(b)fluoranthene | 20 | 21 | 104 | 20 | 22 | 112 | 7 | 40-140 | 40 |
| Benzo(k)fluoranthene | 20 | 23 | 114 | 20 | 23 | 116 | 2 | 40-140 | 40 |
| Chrysene | 20 | 24 | 119 | 20 | 24 | 122 | 2 | 40-140 | 40 |
| Acenaphthylene | 20 | 17 | 83 | 20 | 18 | 88 | 6 | 40-140 | 40 |
| Anthracene | 20 | 20 | 101 | 20 | 21 | 107 | 6 | 40-140 | 40 |
| Benzo(ghi)perylene | 20 | 22 | 110 | 20 | 24 | 118 | 7 | 40-140 | 40 |
| Fluorene | 20 | 19 | 96 | 20 | 20 | 102 | 6 | 40-140 | 40 |
| Phenanthrene | 20 | 21 | 105 | 20 | 22 | 110 | 5 | 40-140 | 40 |
| Dibenzo(a,h)anthracene | 20 | 23 | 114 | 20 | 24 | 121 | 6 | 40-140 | 40 |
| Indeno(1,2,3-cd)pyrene | 20 | 23 | 116 | 20 | 25 | 126 | 8 | 40-140 | 40 |
| Pyrene | 20 | 22 | 108 | 20 | 22 | 113 | 5 | 40-140 | 40 |
| 2-Methylnaphthalene | 20 | 15 | 77 | 20 | 16 | 81 | 5 | 40-140 | 40 |
| Pentachlorophenol | 20 | 19 | 95 | 20 | 22 | 108 | 13 | 40-140 | 40 |
| Hexachlorobenzene | 20 | 20 | 102 | 20 | 22 | 109 | 7 | 40-140 | 40 |
| Hexachloroethane | 20 | 14 | 68 | 20 | 14 | 73 | 7 | 40-140 | 40 |
| Bis(2-chloroethyl)ether | 20 | 15 | 77 | 20 | 16 | 83 | 8 | 40-140 | 40 |

# Method Blank Summary
# Form 4
# Semivolatiles

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab Sample ID | : WG2012049-1 | Lab File ID | : 012049-1 |
| Instrument ID | : SV120 | Extraction Date | : 12/20/24 |
| Matrix | : WATER | Analysis Date | : 12/22/24 12:51 |
| Level | : LOW | | |

| Client Sample No. | Lab Sample ID | Analysis Date |
|---|---|---|
| MW-4S | L2474329-01 | 12/21/24 19:36 |
| MW-4D2 | L2474329-02 | 12/21/24 19:53 |
| MW-12S | L2474329-03 | 12/21/24 20:10 |
| MW-12D | L2474329-04 | 12/21/24 20:27 |
| EB-12162024 | L2474329-05 | 12/21/24 20:44 |
| WG2012049-2LCS | WG2012049-2 | 12/22/24 12:18 |
| WG2012049-3LCSD | WG2012049-3 | 12/22/24 12:35 |

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

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : SV118 | Analysis Date | : 10/25/24 15:53 |
| Tune Standard | : R1893981-11 | Tune File ID | : TUNE_tune |

| m/e | Ion Abundance Criteria | %Relative Abundance |
|---|---|---|
| 51 | 10.0 - 80.0% of Base Peak | 46.8 |
| 68 | Less than 2.0% of mass 69 | 0.5 (1.4 )1 |
| 69 | | 100 |
| 70 | Less than 2.0% of mass 69 | 0.2 (.5 )1 |
| 127 | 10.0 - 80.0% of Base Peak | 46.9 |
| 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 | 6.4 |
| 275 | 10.0 - 60.0% of Base Peak | 27.3 |
| 365 | Greater than 1.0% of mass 198 | 3.5 |
| 441 | Present, but less than 24% of mass 442 | 16.3 |
| 442 | Base Peak, or >50% of mass 198 | 97.8 |
| 443 | 15.0 - 24.0% of mass 442 | 18 (18.4)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 | R1893981-2 | L10 | 10/25/24 16:43 |
| L9 | R1893981-10 | L9 | 10/25/24 17:01 |
| L8 | R1893981-9 | L8 | 10/25/24 17:19 |
| L7 | R1893981-8 | L7 | 10/25/24 17:37 |
| L6 | R1893981-7 | L6 | 10/25/24 17:55 |
| L5 | R1893981-6 | L5 | 10/25/24 18:12 |
| L4 | R1893981-5 | L4 | 10/25/24 18:29 |
| L3 | R1893981-4 | L3 | 10/25/24 18:46 |
| L2 | R1893981-3 | L2 | 10/25/24 19:03 |
| L1 | R1893981-1 | L1 | 10/25/24 19:21 |
| ICV Quant Report | R1893981-12 | ICV | 10/25/24 19:38 |

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

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : SV118 | Analysis Date | : 12/21/24 16:59 |
| Tune Standard | : WG2012269-1 | Tune File ID | : deg1221a_tune |

| m/e | Ion Abundance Criteria | %Relative Abundance |
|---|---|---|
| 51 | 10.0 - 80.0% of Base Peak | 76.7 |
| 68 | Less than 2.0% of mass 69 | 0.8 (1.2 )1 |
| 69 | | 100 |
| 70 | Less than 2.0% of mass 69 | 0.3 (.4 )1 |
| 127 | 10.0 - 80.0% of Base Peak | 74 |
| 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 | 7.9 |
| 275 | 10.0 - 60.0% of Base Peak | 26.6 |
| 365 | Greater than 1.0% of mass 198 | 3.8 |
| 441 | Present, but less than 24% of mass 442 | 22.2 |
| 442 | Base Peak, or >50% of mass 198 | 89.9 |
| 443 | 15.0 - 24.0% of mass 442 | 19.2 (21.4)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 |
|---|---|---|---|
| WG2012269-4TFACTOR-B | WG2012269-4 | DEG1221A | 12/21/24 16:59 |
| WG2012269-5TFACTOR-P | WG2012269-5 | DEG1221A | 12/21/24 16:59 |
| WG2012269-3CCAL | WG2012269-3 | CCV1221A | 12/21/24 17:23 |
| MW-4S | L2474329-01 | 74329-01 | 12/21/24 19:36 |
| MW-4D2 | L2474329-02 | 74329-02 | 12/21/24 19:53 |
| MW-12S | L2474329-03 | 74329-03 | 12/21/24 20:10 |
| MW-12D | L2474329-04 | 74329-04 | 12/21/24 20:27 |
| EB-12162024 | L2474329-05 | 74329-05 | 12/21/24 20:44 |

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

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : SV120 | Analysis Date | : 11/05/24 06:14 |
| Tune Standard | : R1896399-12 | Tune File ID | : TUNE_tune |

| m/e | Ion Abundance Criteria | %Relative Abundance |
|---|---|---|
| 51 | 10.0 - 80.0% of Base Peak | 54.6 |
| 68 | Less than 2.0% of mass 69 | 0.7 (1.7 )1 |
| 69 | | 100 |
| 70 | Less than 2.0% of mass 69 | 0.2 (.6 )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 | 6.2 |
| 275 | 10.0 - 60.0% of Base Peak | 24.2 |
| 365 | Greater than 1.0% of mass 198 | 2.8 |
| 441 | Present, but less than 24% of mass 442 | 16.6 |
| 442 | Base Peak, or >50% of mass 198 | 73.2 |
| 443 | 15.0 - 24.0% of mass 442 | 14.6 (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 |
|---|---|---|---|
| IL10 | R1896399-3 | IL10 | 11/05/24 07:30 |
| IL9 | R1896399-11 | IL9 | 11/05/24 07:47 |
| IL8 | R1896399-10 | IL8 | 11/05/24 08:03 |
| IL7 | R1896399-9 | IL7 | 11/05/24 08:19 |
| IL6 | R1896399-8 | IL6 | 11/05/24 08:36 |
| IL5 | R1896399-7 | IL5 | 11/05/24 08:52 |
| IL4 | R1896399-5 | IL4 | 11/05/24 09:08 |
| IL3 | R1896399-6 | IL3 | 11/05/24 09:24 |
| IL2 | R1896399-4 | IL2 | 11/05/24 09:41 |
| IL1 | R1896399-2 | IL1 | 11/05/24 09:57 |
| | R1896399-1 | ICV | 11/05/24 10:13 |

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

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : SV120 | Analysis Date | : 12/22/24 06:59 |
| Tune Standard | : WG2012326-1 | Tune File ID | : deg1222_tune |

| m/e | Ion Abundance Criteria | %Relative Abundance |
|---|---|---|
| 51 | 10.0 - 80.0% of Base Peak | 51.7 |
| 68 | Less than 2.0% of mass 69 | 0.6 (1.6 )1 |
| 69 | | 100 |
| 70 | Less than 2.0% of mass 69 | 0 (0 )1 |
| 127 | 10.0 - 80.0% of Base Peak | 54.7 |
| 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 | 24.9 |
| 365 | Greater than 1.0% of mass 198 | 2.8 |
| 441 | Present, but less than 24% of mass 442 | 16.4 |
| 442 | Base Peak, or >50% of mass 198 | 75.4 |
| 443 | 15.0 - 24.0% of mass 442 | 14.1 (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 |
|---|---|---|---|
| WG2012326-4TFACTOR-B | WG2012326-4 | DEG1222 | 12/22/24 06:59 |
| WG2012326-5TFACTOR-P | WG2012326-5 | DEG1222 | 12/22/24 06:59 |
| WG2012326-3CCAL | WG2012326-3 | CCV1222 | 12/22/24 07:17 |
| WG2012049-2LCS | WG2012049-2 | 012049-2 | 12/22/24 12:18 |
| WG2012049-3LCSD | WG2012049-3 | 012049-3 | 12/22/24 12:35 |
| WG2012049-1BLANK | WG2012049-1 | 012049-1 | 12/22/24 12:51 |

# Internal Standard Area and RT Summary
# Form 8a
# Semivolatiles

| | | | |
|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Instrument ID** | : **SV118** | **Analysis Date** | : **12/21/24 17:23:00** |
| **Sample No** | : **WG2012269-3** | **Lab File ID** | : **CCV1221A** |

| | 1,4-Dichlorobenzene-d4 | | Naphthalene-d8 | | Acenaphthene-d10 | |
|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT |
| WG2012269-3 | 288875 | 2.23 | 1082128 | 2.90 | 599204 | 3.89 |
| Upper Limit | 577750 | 2.73 | 2164256 | 3.40 | 1198408 | 4.39 |
| Lower Limit | 144438 | 1.73 | 541064 | 2.40 | 299602 | 3.39 |
| Sample ID | | | | | | |
| MW-4S | 448096 | 2.23 | 1636722 | 2.90 | 912175 | 3.89 |
| MW-4D2 | 452109 | 2.23 | 1635308 | 2.90 | 903015 | 3.89 |
| MW-12S | 456226 | 2.23 | 1691632 | 2.90 | 967663 | 3.89 |
| MW-12D | 475660 | 2.23 | 1722463 | 2.90 | 959043 | 3.89 |
| EB-12162024 | 480908 | 2.24 | 1735759 | 2.90 | 961489 | 3.89 |

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

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

* Values outside of QC limits

# Internal Standard Area and RT Summary
# Form 8a
# Semivolatiles

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Instrument ID** | : SV118 | **Analysis Date** | : 12/21/24 17:23:00 |
| **Sample No** | : WG2012269-3 | **Lab File ID** | : CCV1221A |

| | Phenanthrene-d10 | | Chrysene-d12 | | Perylene-d12 | |
|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT |
| WG2012269-3 | 1192441 | 4.74 | 1002090 | 6.30 | 933388 | 7.53 |
| Upper Limit | 2384882 | 5.24 | 2004180 | 6.80 | 1866776 | 8.03 |
| Lower Limit | 596221 | 4.24 | 501045 | 5.80 | 466694 | 7.03 |
| Sample ID | | | | | | |
| MW-4S | 1811309 | 4.74 | 1453141 | 6.29 | 1295525 | 7.52 |
| MW-4D2 | 1794792 | 4.74 | 1532038 | 6.29 | 1383207 | 7.52 |
| MW-12S | 1901148 | 4.74 | 1570443 | 6.29 | 1453144 | 7.52 |
| MW-12D | 1878389 | 4.74 | 1560921 | 6.29 | 1409964 | 7.52 |
| EB-12162024 | 1882732 | 4.74 | 1561311 | 6.29 | 1392705 | 7.51 |

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

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

* Values outside of QC limits

# Internal Standard Area and RT Summary
# Form 8a
# Semivolatiles

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : SV120 | Analysis Date | : 12/22/24 07:17:00 |
| Sample No | : WG2012326-3 | Lab File ID | : CCV1222 |

| | 1,4-Dichlorobenzene-d4 | | Naphthalene-d8 | | Acenaphthene-d10 | |
|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT |
| WG2012326-3 | 191989 | 2.30 | 758028 | 2.96 | 435714 | 3.94 |
| Upper Limit | 383978 | 2.80 | 1516056 | 3.46 | 871428 | 4.44 |
| Lower Limit | 95995 | 1.80 | 379014 | 2.46 | 217857 | 3.44 |
| Sample ID | | | | | | |
| WG2012049-2 LCS | 216097 | 2.30 | 874941 | 2.96 | 470836 | 3.94 |
| WG2012049-3 LCSD | 207777 | 2.30 | 843836 | 2.96 | 449467 | 3.94 |
| WG2012049-1 BLANK | 204193 | 2.30 | 793610 | 2.96 | 447986 | 3.94 |

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

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

* Values outside of QC limits

# Internal Standard Area and RT Summary
# Form 8a
# Semivolatiles

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Instrument ID** | : SV120 | **Analysis Date** | : 12/22/24 07:17:00 |
| **Sample No** | : WG2012326-3 | **Lab File ID** | : CCV1222 |

| | Phenanthrene-d10 | | Chrysene-d12 | | Perylene-d12 | |
|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT |
| WG2012326-3 | 854489 | 4.78 | 780818 | 6.36 | 779548 | 7.61 |
| Upper Limit | 1708978 | 5.28 | 1561636 | 6.86 | 1559096 | 8.11 |
| Lower Limit | 427245 | 4.28 | 390409 | 5.86 | 389774 | 7.11 |
| Sample ID | | | | | | |
| WG2012049-2 LCS | 894243 | 4.79 | 759174 | 6.35 | 762913 | 7.60 |
| WG2012049-3 LCSD | 847127 | 4.78 | 715218 | 6.35 | 725707 | 7.60 |
| WG2012049-1 BLANK | 856576 | 4.78 | 789332 | 6.35 | 736918 | 7.60 |

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

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

* Values outside of QC limits

**Date Created:** 03/07/23
**Created By:** Jason Hebert
**File:** PM14021-1
**Page:** 1

## EPA 8270E Low Level PAH (WATER)

**Holding Time:** 7 days
**Container/Sample Preservation:** 2 - Amber 1000ml unpreserved

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Surrogate Criteria | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 83-32-9 | 0.1 | 0.035 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| 2-Chloronaphthalene | 91-58-7 | 0.2 | 0.035 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| Fluoranthene | 206-44-0 | 0.1 | 0.038 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| Hexachlorobutadiene | 87-68-3 | 0.5 | 0.036 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| Naphthalene | 91-20-3 | 0.1 | 0.043 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| Benzo(a)anthracene | 56-55-3 | 0.1 | 0.018 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| Benzo(a)pyrene | 50-32-8 | 0.1 | 0.039 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| Benzo(b)fluoranthene | 205-99-2 | 0.1 | 0.016 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| Benzo(k)fluoranthene | 207-08-9 | 0.1 | 0.042 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| Chrysene | 218-01-9 | 0.1 | 0.038 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| Acenaphthylene | 208-96-8 | 0.1 | 0.035 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| Anthracene | 120-12-7 | 0.1 | 0.035 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| Benzo(ghi)perylene | 191-24-2 | 0.1 | 0.042 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| Fluorene | 86-73-7 | 0.1 | 0.037 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| Phenanthrene | 85-01-8 | 0.1 | 0.015 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| Dibenzo(a,h)anthracene | 53-70-3 | 0.1 | 0.039 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| Indeno(1,2,3-cd)Pyrene | 193-39-5 | 0.1 | 0.04 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| Pyrene | 129-00-0 | 0.1 | 0.04 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| 1-Methylnaphthalene | 90-12-0 | 0.1 | 0.041 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| 2-Methylnaphthalene | 91-57-6 | 0.1 | 0.045 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| Pentachlorophenol | 87-86-5 | 0.8 | 0.22 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| Hexachlorobenzene | 118-74-1 | 0.8 | 0.032 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| Hexachloroethane | 67-72-1 | 0.8 | 0.03 | ug/l | 40-140 | 40 | 40-140 | 40 | 40 | | | |
| *2-Fluorophenol* | *367-12-4* | | | | | | | | | *21-120* | | |
| *Phenol-d6* | *13127-88-3* | | | | | | | | | *10-120* | | |
| *Nitrobenzene-d5* | *4165-60-0* | | | | | | | | | *23-120* | | |
| *2-Fluorobiphenyl* | *321-60-8* | | | | | | | | | *15-120* | | |
| *2,4,6-Tribromophenol* | *118-79-6* | | | | | | | | | *10-120* | | |
| *4-Terphenyl-d14* | *1718-51-0* | | | | | | | | | *41-149* | | |
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*Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)*
*Please Note that the information provided in this table is subject to change at anytime at the discretion of **the laboratory.***

**Date Created:** 03/07/23
**Created By:** Jason Hebert
**File:** PM14022-1
**Page:** 1

**EPA 8270E Low Level PAH (SOIL)**

**Holding Time:** 14 days
**Container/Sample Preservation:** 1 - Glass 250ml/8oz unpreserved

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Surrogate Criteria | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 83-32-9 | 6.68 | 1.4028 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| 2-Chloronaphthalene | 91-58-7 | 6.68 | 0.8684 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Fluoranthene | 206-44-0 | 6.68 | 0.4676 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Hexachlorobutadiene | 87-68-3 | 6.68 | 0.9352 | ug/kg | 34-107 | 50 | 40-140 | 50 | 50 | | | |
| Naphthalene | 91-20-3 | 6.68 | 1.2024 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Benzo(a)anthracene | 56-55-3 | 6.68 | 0.6346 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Benzo(a)pyrene | 50-32-8 | 6.68 | 0.8016 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Benzo(b)fluoranthene | 205-99-2 | 6.68 | 0.6346 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Benzo(k)fluoranthene | 207-08-9 | 6.68 | 0.6012 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Chrysene | 218-01-9 | 6.68 | 0.501 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Acenaphthylene | 208-96-8 | 6.68 | 0.835 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Anthracene | 120-12-7 | 6.68 | 0.5344 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Benzo(ghi)perylene | 191-24-2 | 6.68 | 0.5678 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Fluorene | 86-73-7 | 6.68 | 0.8016 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Phenanthrene | 85-01-8 | 6.68 | 0.5678 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Dibenzo(a,h)anthracene | 53-70-3 | 6.68 | 0.668 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Indeno(1,2,3-cd)Pyrene | 193-39-5 | 6.68 | 0.8016 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Pyrene | 129-00-0 | 6.68 | 0.4676 | ug/kg | 35-142 | 50 | 35-142 | 50 | 50 | | | |
| 1-Methylnaphthalene | 90-12-0 | 6.68 | 1.0354 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| 2-Methylnaphthalene | 91-57-6 | 6.68 | 1.9038 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Pentachlorophenol | 87-86-5 | 26.72 | 2.9392 | ug/kg | 17-109 | 50 | 17-109 | 50 | 50 | | | |
| Hexachlorobenzene | 118-74-1 | 6.68 | 0.7014 | ug/kg | 40-140 | 50 | 40-140 | 50 | 50 | | | |
| Hexachloroethane | 67-72-1 | 6.68 | 1.2358 | ug/kg | 29-106 | 50 | 40-140 | 50 | 50 | | | |
| *2-Fluorophenol* | *367-12-4* | | | | | | | | | *25-120* | | |
| *Phenol-d6* | *13127-88-3* | | | | | | | | | *10-120* | | |
| *Nitrobenzene-d5* | *4165-60-0* | | | | | | | | | *23-120* | | |
| *2-Fluorobiphenyl* | *321-60-8* | | | | | | | | | *30-120* | | |
| *2,4,6-Tribromophenol* | *118-79-6* | | | | | | | | | *10-136* | | |
| *4-Terphenyl-d14* | *1718-51-0* | | | | | | | | | *18-120* | | |
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*Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)*
*Please Note that the information provided in this table is subject to change at anytime at the discretion of **he laboratory.***

# Semivolatile Sample Data

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS-SIM

| | | | | | |
|---|---|---|---|---|---|
| Client | : | Roux Env. Eng. & Geology, DPC | Lab Number | : | L2474329 |
| Project Name | : | CORAM MATERIALS | Project Number | : | 2232.0006Y005 |
| Lab ID | : | L2474329-01 | Date Collected | : | 12/16/24 11:00 |
| Client ID | : | MW-4S | Date Received | : | 12/17/24 |
| Sample Location | : | 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : | 12/21/24 19:36 |
| Sample Matrix | : | WATER | Date Extracted | : | 12/20/24 |
| Analytical Method | : | 1,8270E-SIM | Dilution Factor | : | 1 |
| Lab File ID | : | 74329-01 | Analyst | : | SLR |
| 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 |

| | | ug/L | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 83-32-9 | Acenaphthene | ND | 0.10 | 0.02 | U |
| 91-58-7 | 2-Chloronaphthalene | ND | 0.20 | 0.02 | U |
| 206-44-0 | Fluoranthene | ND | 0.10 | 0.03 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.02 | U |
| 91-20-3 | Naphthalene | ND | 0.10 | 0.02 | U |
| 56-55-3 | Benzo(a)anthracene | ND | 0.10 | 0.03 | U |
| 50-32-8 | Benzo(a)pyrene | ND | 0.10 | 0.02 | U |
| 205-99-2 | Benzo(b)fluoranthene | ND | 0.10 | 0.03 | U |
| 207-08-9 | Benzo(k)fluoranthene | ND | 0.10 | 0.03 | U |
| 218-01-9 | Chrysene | ND | 0.10 | 0.03 | U |
| 208-96-8 | Acenaphthylene | ND | 0.10 | 0.02 | U |
| 120-12-7 | Anthracene | ND | 0.10 | 0.02 | U |
| 191-24-2 | Benzo(ghi)perylene | ND | 0.10 | 0.02 | U |
| 86-73-7 | Fluorene | ND | 0.10 | 0.03 | U |
| 85-01-8 | Phenanthrene | ND | 0.10 | 0.04 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 0.10 | 0.02 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.02 | U |
| 129-00-0 | Pyrene | ND | 0.10 | 0.04 | U |
| 91-57-6 | 2-Methylnaphthalene | ND | 0.10 | 0.03 | U |
| 87-86-5 | Pentachlorophenol | 0.06 | 0.80 | 0.06 | J |
| 118-74-1 | Hexachlorobenzene | 0.02 | 0.80 | 0.01 | J |
| 67-72-1 | Hexachloroethane | ND | 0.80 | 0.02 | U |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS-SIM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-01 | Date Collected | : 12/16/24 11:00 |
| Client ID | : MW-4S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 19:36 |
| Sample Matrix | : WATER | Date Extracted | : 12/20/24 |
| Analytical Method | : 1,8270E-SIM | Dilution Factor | : 1 |
| Lab File ID | : 74329-01 | Analyst | : SLR |
| 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 Results | ug/L RL | ug/L MDL | Qualifier |
|---|---|---|---|---|---|
| 111-44-4 | Bis(2-chloroethyl)ether | ND | 0.10 | 0.05 | U |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS-SIM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-02 | Date Collected | : 12/16/24 11:50 |
| Client ID | : MW-4D2 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 19:53 |
| Sample Matrix | : WATER | Date Extracted | : 12/20/24 |
| Analytical Method | : 1,8270E-SIM | Dilution Factor | : 1 |
| Lab File ID | : 74329-02 | Analyst | : SLR |
| 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 Results | RL | MDL | Qualifier |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | ND | 0.10 | 0.02 | U |
| 91-58-7 | 2-Chloronaphthalene | ND | 0.20 | 0.02 | U |
| 206-44-0 | Fluoranthene | ND | 0.10 | 0.03 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.02 | U |
| 91-20-3 | Naphthalene | ND | 0.10 | 0.02 | U |
| 56-55-3 | Benzo(a)anthracene | ND | 0.10 | 0.03 | U |
| 50-32-8 | Benzo(a)pyrene | ND | 0.10 | 0.02 | U |
| 205-99-2 | Benzo(b)fluoranthene | ND | 0.10 | 0.03 | U |
| 207-08-9 | Benzo(k)fluoranthene | ND | 0.10 | 0.03 | U |
| 218-01-9 | Chrysene | ND | 0.10 | 0.03 | U |
| 208-96-8 | Acenaphthylene | ND | 0.10 | 0.02 | U |
| 120-12-7 | Anthracene | ND | 0.10 | 0.02 | U |
| 191-24-2 | Benzo(ghi)perylene | ND | 0.10 | 0.02 | U |
| 86-73-7 | Fluorene | ND | 0.10 | 0.03 | U |
| 85-01-8 | Phenanthrene | ND | 0.10 | 0.04 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 0.10 | 0.02 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.02 | U |
| 129-00-0 | Pyrene | ND | 0.10 | 0.04 | U |
| 91-57-6 | 2-Methylnaphthalene | ND | 0.10 | 0.03 | U |
| 87-86-5 | Pentachlorophenol | ND | 0.80 | 0.06 | U |
| 118-74-1 | Hexachlorobenzene | ND | 0.80 | 0.01 | U |
| 67-72-1 | Hexachloroethane | ND | 0.80 | 0.02 | U |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS-SIM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-02** | **Date Collected** | **: 12/16/24 11:50** |
| **Client ID** | **: MW-4D2** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/21/24 19:53** |
| **Sample Matrix** | **: WATER** | **Date Extracted** | **: 12/20/24** |
| **Analytical Method** | **: 1,8270E-SIM** | **Dilution Factor** | **: 1** |
| **Lab File ID** | **: 74329-02** | **Analyst** | **: SLR** |
| **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** |

| | | ug/L | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 111-44-4 | Bis(2-chloroethyl)ether | ND | 0.10 | 0.05 | U |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS-SIM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-03 | Date Collected | : 12/16/24 08:45 |
| Client ID | : MW-12S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 20:10 |
| Sample Matrix | : WATER | Date Extracted | : 12/20/24 |
| Analytical Method | : 1,8270E-SIM | Dilution Factor | : 1 |
| Lab File ID | : 74329-03 | Analyst | : SLR |
| 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 |

| | | ug/L | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 83-32-9 | Acenaphthene | ND | 0.10 | 0.02 | U |
| 91-58-7 | 2-Chloronaphthalene | ND | 0.20 | 0.02 | U |
| 206-44-0 | Fluoranthene | ND | 0.10 | 0.03 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.02 | U |
| 91-20-3 | Naphthalene | 0.09 | 0.10 | 0.02 | J |
| 56-55-3 | Benzo(a)anthracene | ND | 0.10 | 0.03 | U |
| 50-32-8 | Benzo(a)pyrene | ND | 0.10 | 0.02 | U |
| 205-99-2 | Benzo(b)fluoranthene | ND | 0.10 | 0.03 | U |
| 207-08-9 | Benzo(k)fluoranthene | ND | 0.10 | 0.03 | U |
| 218-01-9 | Chrysene | ND | 0.10 | 0.03 | U |
| 208-96-8 | Acenaphthylene | ND | 0.10 | 0.02 | U |
| 120-12-7 | Anthracene | 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 | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-03 | Date Collected | : 12/16/24 08:45 |
| Client ID | : MW-12S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 20:10 |
| Sample Matrix | : WATER | Date Extracted | : 12/20/24 |
| Analytical Method | : 1,8270E-SIM | Dilution Factor | : 1 |
| Lab File ID | : 74329-03 | Analyst | : SLR |
| 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 |

| | | ug/L | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 111-44-4 | Bis(2-chloroethyl)ether | ND | 0.10 | 0.05 | U |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS-SIM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-04 | Date Collected | : 12/16/24 09:33 |
| Client ID | : MW-12D | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 20:27 |
| Sample Matrix | : WATER | Date Extracted | : 12/20/24 |
| Analytical Method | : 1,8270E-SIM | Dilution Factor | : 1 |
| Lab File ID | : 74329-04 | Analyst | : SLR |
| 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 Results | RL | MDL | Qualifier |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | ND | 0.10 | 0.02 | U |
| 91-58-7 | 2-Chloronaphthalene | ND | 0.20 | 0.02 | U |
| 206-44-0 | Fluoranthene | ND | 0.10 | 0.03 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.02 | U |
| 91-20-3 | Naphthalene | ND | 0.10 | 0.02 | U |
| 56-55-3 | Benzo(a)anthracene | ND | 0.10 | 0.03 | U |
| 50-32-8 | Benzo(a)pyrene | ND | 0.10 | 0.02 | U |
| 205-99-2 | Benzo(b)fluoranthene | ND | 0.10 | 0.03 | U |
| 207-08-9 | Benzo(k)fluoranthene | ND | 0.10 | 0.03 | U |
| 218-01-9 | Chrysene | ND | 0.10 | 0.03 | U |
| 208-96-8 | Acenaphthylene | ND | 0.10 | 0.02 | U |
| 120-12-7 | Anthracene | ND | 0.10 | 0.02 | U |
| 191-24-2 | Benzo(ghi)perylene | ND | 0.10 | 0.02 | U |
| 86-73-7 | Fluorene | ND | 0.10 | 0.03 | U |
| 85-01-8 | Phenanthrene | ND | 0.10 | 0.04 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 0.10 | 0.02 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.02 | U |
| 129-00-0 | Pyrene | ND | 0.10 | 0.04 | U |
| 91-57-6 | 2-Methylnaphthalene | ND | 0.10 | 0.03 | U |
| 87-86-5 | Pentachlorophenol | ND | 0.80 | 0.06 | U |
| 118-74-1 | Hexachlorobenzene | ND | 0.80 | 0.01 | U |
| 67-72-1 | Hexachloroethane | ND | 0.80 | 0.02 | U |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS-SIM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-04 | Date Collected | : 12/16/24 09:33 |
| Client ID | : MW-12D | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 20:27 |
| Sample Matrix | : WATER | Date Extracted | : 12/20/24 |
| Analytical Method | : 1,8270E-SIM | Dilution Factor | : 1 |
| Lab File ID | : 74329-04 | Analyst | : SLR |
| 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 Results | RL | MDL | Qualifier |
|---|---|---|---|---|---|
| 111-44-4 | Bis(2-chloroethyl)ether | ND | 0.10 | 0.05 | U |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS-SIM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-05 | Date Collected | : 12/16/24 12:00 |
| Client ID | : EB-12162024 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 20:44 |
| Sample Matrix | : Equipment Blank | Date Extracted | : 12/20/24 |
| Analytical Method | : 1,8270E-SIM | Dilution Factor | : 1 |
| Lab File ID | : 74329-05 | Analyst | : SLR |
| 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 | Results (ug/L) | RL (ug/L) | MDL (ug/L) | Qualifier |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | ND | 0.10 | 0.02 | U |
| 91-58-7 | 2-Chloronaphthalene | ND | 0.20 | 0.02 | U |
| 206-44-0 | Fluoranthene | ND | 0.10 | 0.03 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.02 | U |
| 91-20-3 | Naphthalene | ND | 0.10 | 0.02 | U |
| 56-55-3 | Benzo(a)anthracene | ND | 0.10 | 0.03 | U |
| 50-32-8 | Benzo(a)pyrene | ND | 0.10 | 0.02 | U |
| 205-99-2 | Benzo(b)fluoranthene | ND | 0.10 | 0.03 | U |
| 207-08-9 | Benzo(k)fluoranthene | ND | 0.10 | 0.03 | U |
| 218-01-9 | Chrysene | ND | 0.10 | 0.03 | U |
| 208-96-8 | Acenaphthylene | ND | 0.10 | 0.02 | U |
| 120-12-7 | Anthracene | ND | 0.10 | 0.02 | U |
| 191-24-2 | Benzo(ghi)perylene | ND | 0.10 | 0.02 | U |
| 86-73-7 | Fluorene | ND | 0.10 | 0.03 | U |
| 85-01-8 | Phenanthrene | ND | 0.10 | 0.04 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 0.10 | 0.02 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.02 | U |
| 129-00-0 | Pyrene | ND | 0.10 | 0.04 | U |
| 91-57-6 | 2-Methylnaphthalene | ND | 0.10 | 0.03 | U |
| 87-86-5 | Pentachlorophenol | ND | 0.80 | 0.06 | U |
| 118-74-1 | Hexachlorobenzene | ND | 0.80 | 0.01 | U |
| 67-72-1 | Hexachloroethane | ND | 0.80 | 0.02 | U |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS-SIM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-05** | **Date Collected** | **: 12/16/24 12:00** |
| **Client ID** | **: EB-12162024** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/21/24 20:44** |
| **Sample Matrix** | **: Equipment Blank** | **Date Extracted** | **: 12/20/24** |
| **Analytical Method** | **: 1,8270E-SIM** | **Dilution Factor** | **: 1** |
| **Lab File ID** | **: 74329-05** | **Analyst** | **: SLR** |
| **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** |

| | | ug/L | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| **111-44-4** | **Bis(2-chloroethyl)ether** | **ND** | **0.10** | **0.05** | **U** |

# Results Summary
# Form 1
# Semivolatile Organics by GC/MS-SIM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2012049-1 | Date Collected | : NA |
| Client ID | : WG2012049-1BLANK | Date Received | : NA |
| Sample Location | : | Date Analyzed | : 12/22/24 12:51 |
| Sample Matrix | : WATER | Date Extracted | : 12/20/24 |
| Analytical Method | : 1,8270E-SIM | Dilution Factor | : 1 |
| Lab File ID | : 012049-1 | Analyst | : SLR |
| Sample Amount | : 100 ml | Instrument ID | : SV120 |
| Extraction Method | : EPA 3510C | GC Column | : RXI-5SilM |
| Extract Volume | : 1000 uL | %Solids | : N/A |
| GPC Cleanup | : N | Injection Volume | : 1 uL |

| | | ug/L | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 83-32-9 | Acenaphthene | ND | 0.10 | 0.02 | U |
| 91-58-7 | 2-Chloronaphthalene | ND | 0.20 | 0.02 | U |
| 206-44-0 | Fluoranthene | ND | 0.10 | 0.03 | U |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.02 | U |
| 91-20-3 | Naphthalene | 0.05 | 0.10 | 0.02 | J |
| 56-55-3 | Benzo(a)anthracene | ND | 0.10 | 0.03 | U |
| 50-32-8 | Benzo(a)pyrene | ND | 0.10 | 0.02 | U |
| 205-99-2 | Benzo(b)fluoranthene | ND | 0.10 | 0.03 | U |
| 207-08-9 | Benzo(k)fluoranthene | ND | 0.10 | 0.03 | U |
| 218-01-9 | Chrysene | ND | 0.10 | 0.03 | U |
| 208-96-8 | Acenaphthylene | ND | 0.10 | 0.02 | U |
| 120-12-7 | Anthracene | 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 | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2012049-1 | Date Collected | : NA |
| Client ID | : WG2012049-1BLANK | Date Received | : NA |
| Sample Location | : | Date Analyzed | : 12/22/24 12:51 |
| Sample Matrix | : WATER | Date Extracted | : 12/20/24 |
| Analytical Method | : 1,8270E-SIM | Dilution Factor | : 1 |
| Lab File ID | : 012049-1 | Analyst | : SLR |
| Sample Amount | : 100 ml | Instrument ID | : SV120 |
| 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 Results | ug/L RL | ug/L MDL | Qualifier |
|---|---|---|---|---|---|
| 111-44-4 | Bis(2-chloroethyl)ether | ND | 0.10 | 0.05 | U |

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : 74329-01.D
Acq On    : 21 Dec 2024  07:36 pm
Operator  : SV118:slr
Sample    : L2474329-01,32,,rp
Misc      : WG2012269,WG2012049,ical21646
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Dec 23 13:17:24 2024
Quant Method : I:\8270sim\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241221aRVT\ccv1221a.D
Sub List     : DEFAULT - All compounds listed

        Compound                     R.T. QIon  Response  Conc Units Dev(Min)
 ----------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4       2.231  152    448096   4000.000 ng/ml    0.00
   Standard Area 1 = 288875                 Recovery   =  155.12%
 8) Naphthalene-d8               2.901  136   1636722   4000.000 ng/ml    0.00
   Standard Area 1 = 1082128                 Recovery   =  151.25%
17) Acenaphthene-d10             3.889  164    912175   4000.000 ng/ml    0.00
   Standard Area 1 = 599204                 Recovery   =  152.23%
22) Phenanthrene-d10             4.739  188   1811309   4000.000 ng/ml  # 0.00
   Standard Area 1 = 1192441                 Recovery   =  151.90%
31) Chrysene-d12                 6.288  240   1453141   4000.000 ng/ml   -0.01
   Standard Area 1 = 1002090                 Recovery   =  145.01%
36) Perylene-d12                 7.517  264   1295525   4000.000 ng/ml   -0.01
   Standard Area 1 = 933388                 Recovery   =  138.80%

 System Monitoring Compounds
 2) 2-Fluorophenol               1.649  112    130304   1028.522 ng/ml   0.02
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   51.43%
 3) Phenol-d6                    2.047   99    116130   745.967 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   37.30%
 7) Nitrobenzene-d5              2.515   82    110150   1095.938 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =  109.59%
13) 2-Fluorobiphenyl             3.504  172    255155   810.774 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   81.08%
21) 2,4,6-Tribromophenol         4.340  330     77738   1849.487 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   92.47%
30) 4-Terphenyl-d14              5.657  244    297482   802.689 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   80.27%

 Target Compounds                                                    Qvalue
 4) Bis(2-chloroethyl)ether      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
14) 2-Chloronaphthalene          0.000                 0       N.D. d
16) Acenaphthylene               0.000                 0       N.D. d
18) Acenaphthene                 0.000                 0       N.D. d
20) Fluorene                     0.000                 0       N.D. d
24) Hexachlorobenzene            4.522  284        257      2.155 ng/ml#    85
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : 74329-01.D
Acq On : 21 Dec 2024 07:36 pm
Operator : SV118:slr
Sample : L2474329-01,32,,rp
Misc : WG2012269,WG2012049,ical21646
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 23 13:17:24 2024
Quant Method : I:\8270sim\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241221aRVT\ccv1221a.D
Sub List : DEFAULT - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 25) Pentachlorophenol | 4.636 | 266 | 271 | 6.109 ng/ml | 89 |
| 26) Phenanthrene | 0.000 | | 0 | N.D. d | |
| 27) Anthracene | 0.000 | | 0 | N.D. d | |
| 28) Fluoranthene | 0.000 | | 0 | N.D. d | |
| 29) Pyrene | 0.000 | | 0 | N.D. d | |
| 32) Benzo[a]anthracene | 0.000 | | 0 | N.D. d | |
| 34) Chrysene | 0.000 | | 0 | N.D. d | |
| 37) Benzo[b]fluoranthene | 0.000 | | 0 | N.D. d | |
| 38) Benzo[k]fluoranthene | 0.000 | | 0 | N.D. d | |
| 39) Benzo[a]pyrene | 0.000 | | 0 | N.D. d | |
| 40) Indeno[1,2,3-cd]pyrene | 0.000 | | 0 | N.D. d | |
| 41) Dibenzo[a,h]anthracene | 0.000 | | 0 | N.D. d | |
| 42) Benzo[g,h,i]perylene | 0.000 | | 0 | N.D. d | |

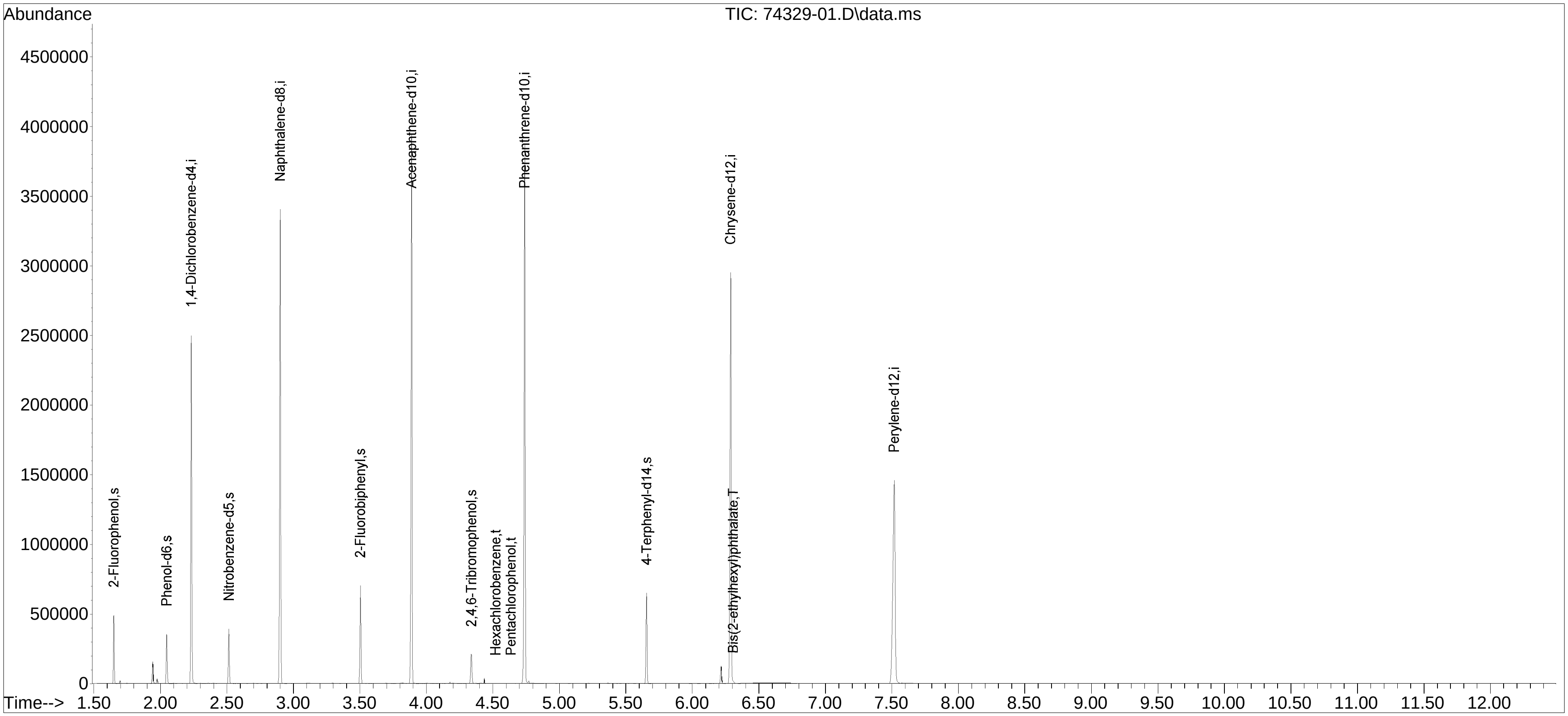
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

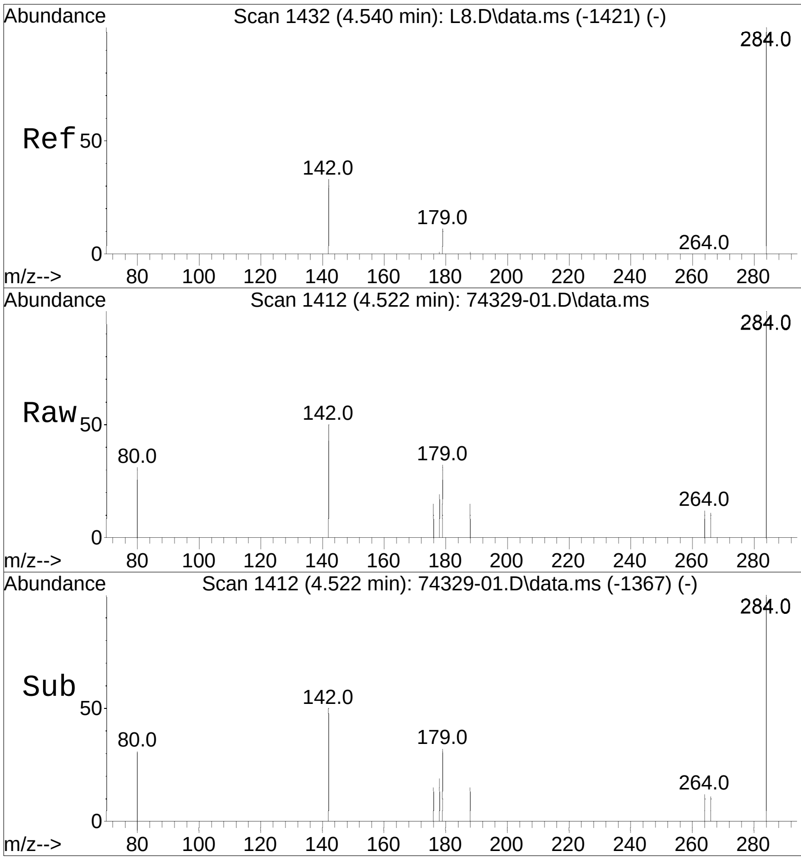
Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : 74329-01.D
Acq On    : 21 Dec 2024  07:36 pm
Operator  : SV118:slr
Sample    : L2474329-01,32,,rp
Misc      : WG2012269,WG2012049,ical21646
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Dec 23 13:17:24 2024
Quant Method : I:\8270sim\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:00 2024
Response via : Initial Calibration

Sub List     : DEFAULT - All compounds listedT\ccv1221a.D•



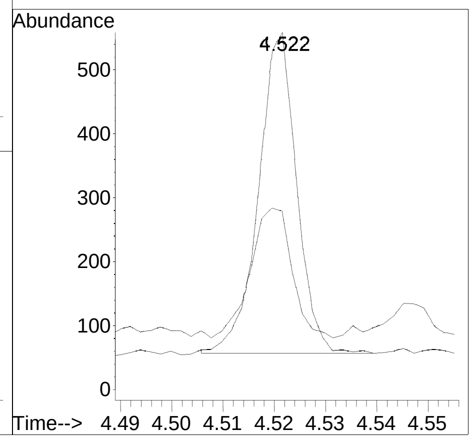

SIM-RVT_241025sv118.M Mon Dec 23 13:18:33 2024    Page: 3

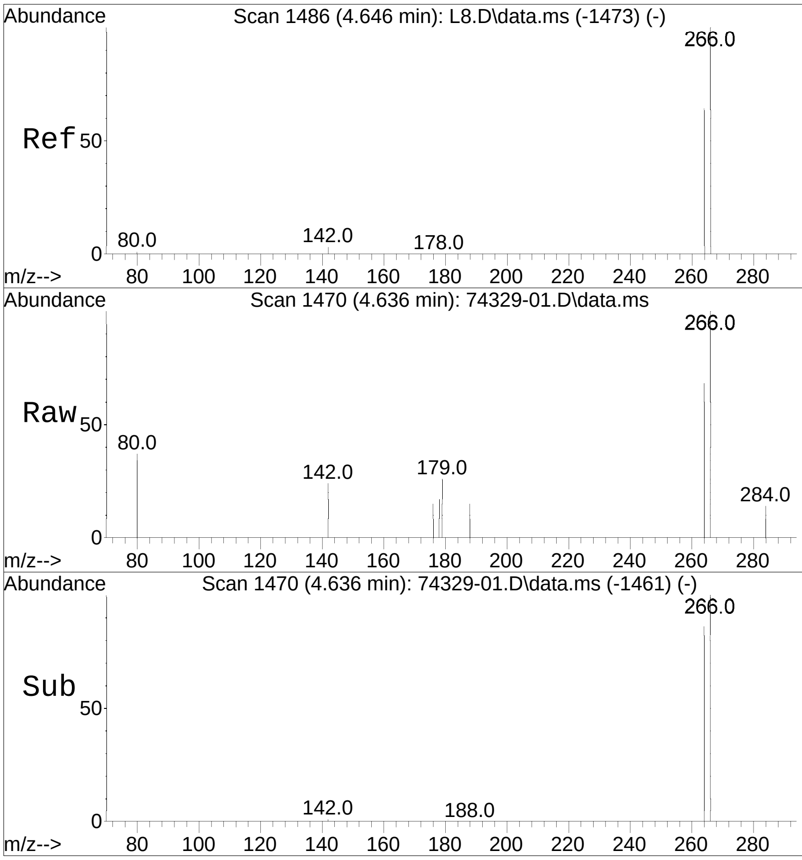



#24
Hexachlorobenzene
Concen: 2.16 ng/ml
RT: 4.522 min Scan# 1412
Delta R.T. -0.004 min
Lab File: 74329-01.D
Acq: 21 Dec 2024 07:36 pm

Tgt Ion:284 Resp: 257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 44.4 | 28.4 | 42.6# |

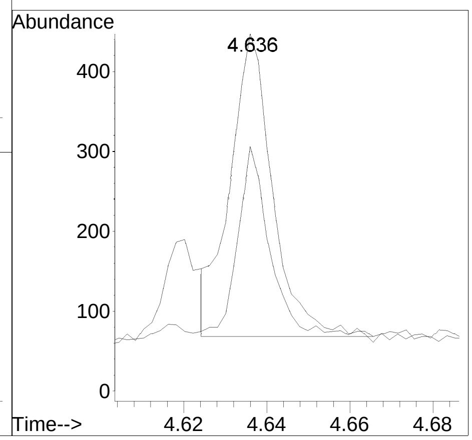





#25
Pentachlorophenol
Concen: 6.11 ng/ml
RT: 4.636 min Scan# 1470
Delta R.T. -0.002 min
Lab File: 74329-01.D
Acq: 21 Dec 2024 07:36 pm

Tgt Ion:266 Resp: 271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 54.6 | 50.6 | 76.0 |



Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : I:\8270SIM\SV118\241221aRVQ | Method | : SIM-RVT_241025sv118.M |
| Data File | : 74329-01.D | Operator | : SV118:slr |
| Date Inj'd | : 12/21/2024 7:36 pm | Instrument | : SV118 |
| Sample | : L2474329-01,32,,rp | Quant Date | : 12/21/2024 7:48 pm |

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

Quantitation Report    (QT Reviewed)

```
Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : 74329-02.D
Acq On    : 21 Dec 2024  07:53 pm
Operator  : SV118:slr
Sample    : L2474329-02,32,,rp
Misc      : WG2012269,WG2012049,ical21646
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Dec 23 13:18:35 2024
Quant Method : I:\8270sim\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241221aRVT\ccv1221a.D
Sub List     : DEFAULT - All compounds listed

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4      2.231  152    452109   4000.000 ng/ml    0.00
   Standard Area 1 = 288875                Recovery   =  156.51%
 8) Naphthalene-d8              2.901  136   1635308   4000.000 ng/ml    0.00
   Standard Area 1 = 1082128                Recovery   =  151.12%
17) Acenaphthene-d10            3.889  164    903015   4000.000 ng/ml    0.00
   Standard Area 1 = 599204                Recovery   =  150.70%
22) Phenanthrene-d10            4.737  188   1794792   4000.000 ng/ml  # 0.00
   Standard Area 1 = 1192441                Recovery   =  150.51%
31) Chrysene-d12                6.289  240   1532038   4000.000 ng/ml   -0.01
   Standard Area 1 = 1002090                Recovery   =  152.88%
36) Perylene-d12                7.517  264   1383207   4000.000 ng/ml   -0.01
   Standard Area 1 = 933388                Recovery   =  148.19%

 System Monitoring Compounds
 2) 2-Fluorophenol              1.649  112    115649   904.744 ng/ml   0.02
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   45.24%
 3) Phenol-d6                   2.047   99    104967   668.276 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   33.41%
 7) Nitrobenzene-d5             2.515   82     98203   968.399 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   96.84%
13) 2-Fluorobiphenyl            3.504  172    226404   720.038 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   72.00%
21) 2,4,6-Tribromophenol        4.340  330     58742   1411.724 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   70.59%
30) 4-Terphenyl-d14             5.655  244    276691   753.460 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   75.35%

 Target Compounds                                                  Qvalue
 4) Bis(2-chloroethyl)ether     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
14) 2-Chloronaphthalene         0.000                 0       N.D. d
16) Acenaphthylene              0.000                 0       N.D. d
18) Acenaphthene                0.000                 0       N.D. d
20) Fluorene                    0.000                 0       N.D. d
24) Hexachlorobenzene           0.000                 0       N.D. d
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : 74329-02.D
Acq On : 21 Dec 2024 07:53 pm
Operator : SV118:slr
Sample : L2474329-02,32,,rp
Misc : WG2012269,WG2012049,ical21646
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 23 13:18:35 2024
Quant Method : I:\8270sim\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241221aRVT\ccv1221a.D
Sub List : DEFAULT - All compounds listed

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 25) Pentachlorophenol | 4.637 | 266 | 190 | 4.323 | ng/ml | 86 |
| 26) Phenanthrene | 0.000 | | 0 | N.D. | d | |
| 27) Anthracene | 0.000 | | 0 | N.D. | d | |
| 28) Fluoranthene | 0.000 | | 0 | N.D. | d | |
| 29) Pyrene | 0.000 | | 0 | N.D. | d | |
| 32) Benzo[a]anthracene | 0.000 | | 0 | N.D. | d | |
| 34) Chrysene | 0.000 | | 0 | N.D. | d | |
| 37) Benzo[b]fluoranthene | 0.000 | | 0 | N.D. | d | |
| 38) Benzo[k]fluoranthene | 0.000 | | 0 | N.D. | d | |
| 39) Benzo[a]pyrene | 0.000 | | 0 | N.D. | d | |
| 40) Indeno[1,2,3-cd]pyrene | 0.000 | | 0 | N.D. | d | |
| 41) Dibenzo[a,h]anthracene | 0.000 | | 0 | N.D. | d | |
| 42) Benzo[g,h,i]perylene | 0.000 | | 0 | N.D. | d | |

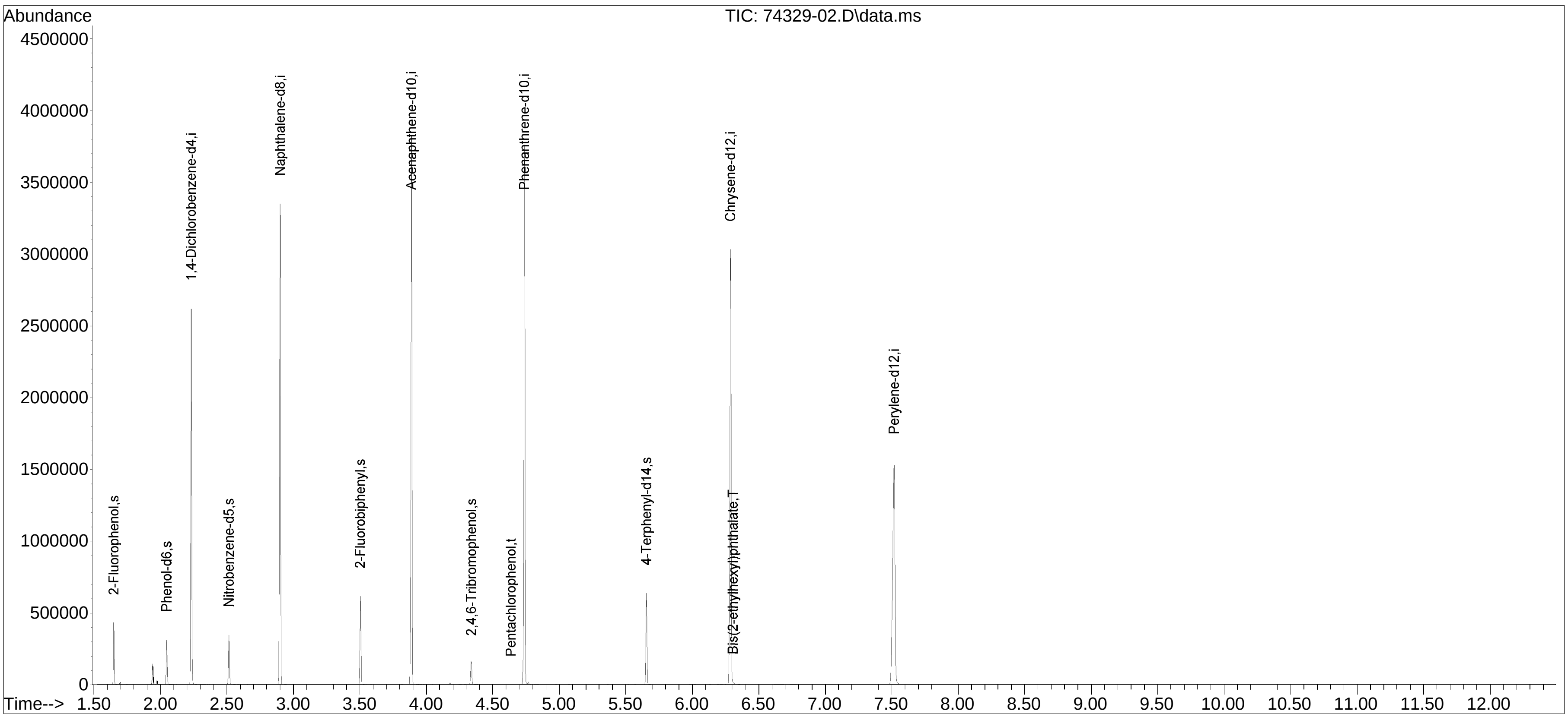
(#) = qualifier out of range (m) = manual integration (+) = signals summed

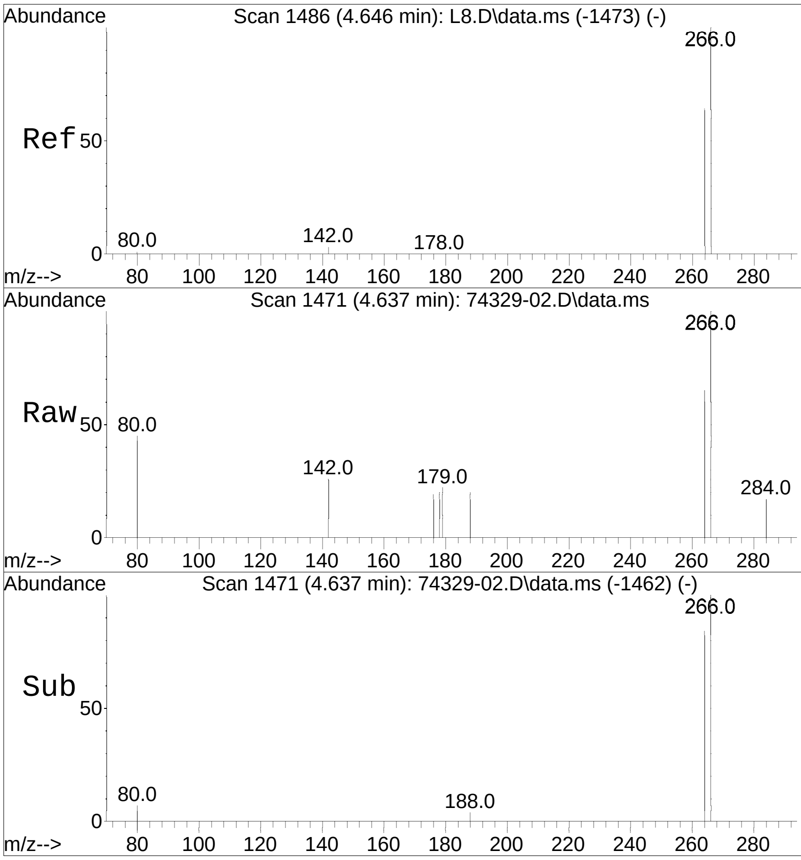
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : 74329-02.D
Acq On : 21 Dec 2024 07:53 pm
Operator : SV118:slr
Sample : L2474329-02,32,,rp
Misc : WG2012269,WG2012049,ical21646
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 23 13:18:35 2024
Quant Method : I:\8270sim\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:00 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv1221a.D•

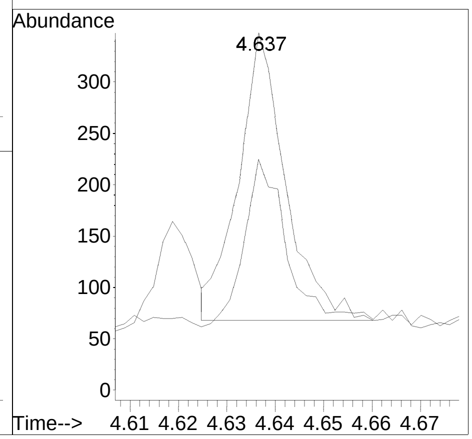





#25
Pentachlorophenol
Concen: 4.32 ng/ml
RT: 4.637 min Scan# 1471
Delta R.T. -0.002 min
Lab File: 74329-02.D
Acq: 21 Dec 2024 07:53 pm

Tgt Ion:266 Resp: 190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 52.1 | 50.6 | 76.0 |



# Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : I:\8270SIM\SV118\241221aRVQ | Method | : SIM-RVT_241025sv118.M |
| Data File | : 74329-02.D | Operator | : SV118:slr |
| Date Inj'd | : 12/21/2024 7:53 pm | Instrument | : SV118 |
| Sample | : L2474329-02,32,,rp | Quant Date | : 12/21/2024 8:06 pm |

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

Quantitation Report    (QT Reviewed)

```
Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : 74329-03.D
Acq On    : 21 Dec 2024  08:10 pm
Operator  : SV118:slr
Sample    : L2474329-03,32,,rp
Misc      : WG2012269,WG2012049,ical21646
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Dec 23 13:20:41 2024
Quant Method : I:\8270sim\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241221aRVT\ccv1221a.D
Sub List     : DEFAULT - All compounds listed

        Compound                    R.T. QIon  Response  Conc Units Dev(Min)
 ----------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4       2.231  152    456226   4000.000 ng/ml    0.00
   Standard Area 1 = 288875                 Recovery   =  157.93%
 8) Naphthalene-d8               2.901  136   1691632   4000.000 ng/ml    0.00
   Standard Area 1 = 1082128                 Recovery   =  156.32%
17) Acenaphthene-d10             3.889  164    967663   4000.000 ng/ml    0.00
   Standard Area 1 = 599204                 Recovery   =  161.49%
22) Phenanthrene-d10             4.739  188   1901148   4000.000 ng/ml  # 0.00
   Standard Area 1 = 1192441                 Recovery   =  159.43%
31) Chrysene-d12                 6.291  240   1570443   4000.000 ng/ml    0.00
   Standard Area 1 = 1002090                 Recovery   =  156.72%
36) Perylene-d12                 7.519  264   1453144   4000.000 ng/ml    0.00
   Standard Area 1 = 933388                 Recovery   =  155.68%

 System Monitoring Compounds
 2) 2-Fluorophenol               1.648  112    129613   1004.837 ng/ml   0.01
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   50.24%
 3) Phenol-d6                    2.047   99    119336   752.901 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   37.65%
 7) Nitrobenzene-d5              2.514   82    109478   1069.842 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =  106.98%
13) 2-Fluorobiphenyl             3.504  172    265605   816.584 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   81.66%
21) 2,4,6-Tribromophenol         4.340  330     78254   1755.005 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   87.75%
30) 4-Terphenyl-d14              5.657  244    311293   800.263 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   80.03%

 Target Compounds                                                  Qvalue
 4) Bis(2-chloroethyl)ether      0.000                0       N.D. d
 6) Hexachloroethane             0.000                0       N.D. d
 9) Naphthalene                  2.908  128       3793M6    8.518 ng/ml
10) Hexachlorobutadiene          0.000                0       N.D. d
11) 2-Methylnaphthalene          0.000                0       N.D. d
14) 2-Chloronaphthalene          0.000                0       N.D. d
16) Acenaphthylene               0.000                0       N.D. d
18) Acenaphthene                 0.000                0       N.D. d
20) Fluorene                     0.000                0       N.D. d
24) Hexachlorobenzene            0.000                0       N.D. d
```

Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : 74329-03.D
Acq On    : 21 Dec 2024  08:10 pm
Operator  : SV118:slr
Sample    : L2474329-03,32,,rp
Misc      : WG2012269,WG2012049,ical21646
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Dec 23 13:20:41 2024
Quant Method : I:\8270sim\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241221aRVT\ccv1221a.D
Sub List     : DEFAULT - All compounds listed

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 25) Pentachlorophenol | 4.636 | 266 | 208M3 | 4.468 | ng/ml | |
| 26) Phenanthrene | 0.000 | | 0 | N.D. | d | |
| 27) Anthracene | 0.000 | | 0 | N.D. | d | |
| 28) Fluoranthene | 0.000 | | 0 | N.D. | d | |
| 29) Pyrene | 0.000 | | 0 | N.D. | d | |
| 32) Benzo[a]anthracene | 0.000 | | 0 | N.D. | d | |
| 34) Chrysene | 0.000 | | 0 | N.D. | d | |
| 37) Benzo[b]fluoranthene | 0.000 | | 0 | N.D. | d | |
| 38) Benzo[k]fluoranthene | 0.000 | | 0 | N.D. | d | |
| 39) Benzo[a]pyrene | 0.000 | | 0 | N.D. | d | |
| 40) Indeno[1,2,3-cd]pyrene | 0.000 | | 0 | N.D. | d | |
| 41) Dibenzo[a,h]anthracene | 0.000 | | 0 | N.D. | d | |
| 42) Benzo[g,h,i]perylene | 0.000 | | 0 | N.D. | d | |

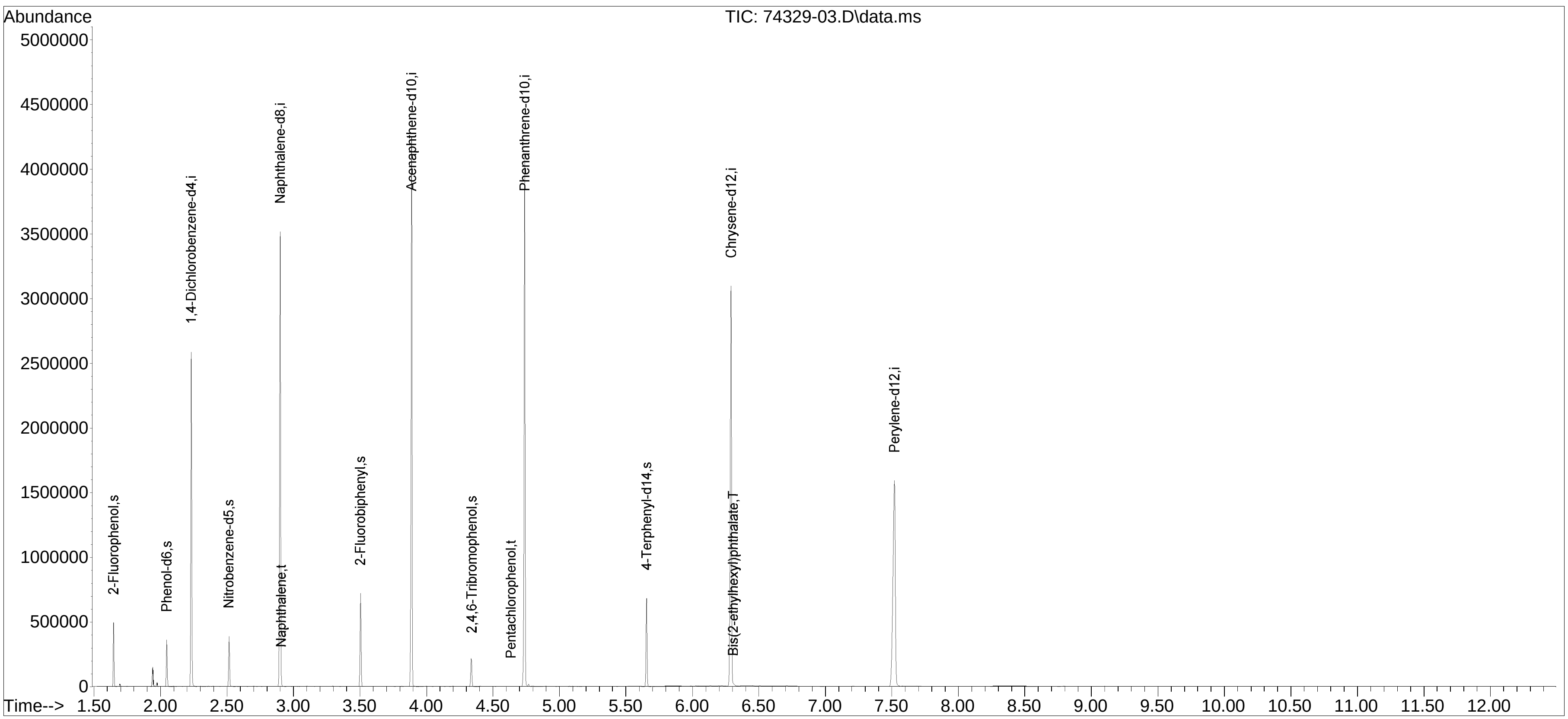
(#) = qualifier out of range (m) = manual integration (+) = signals summed

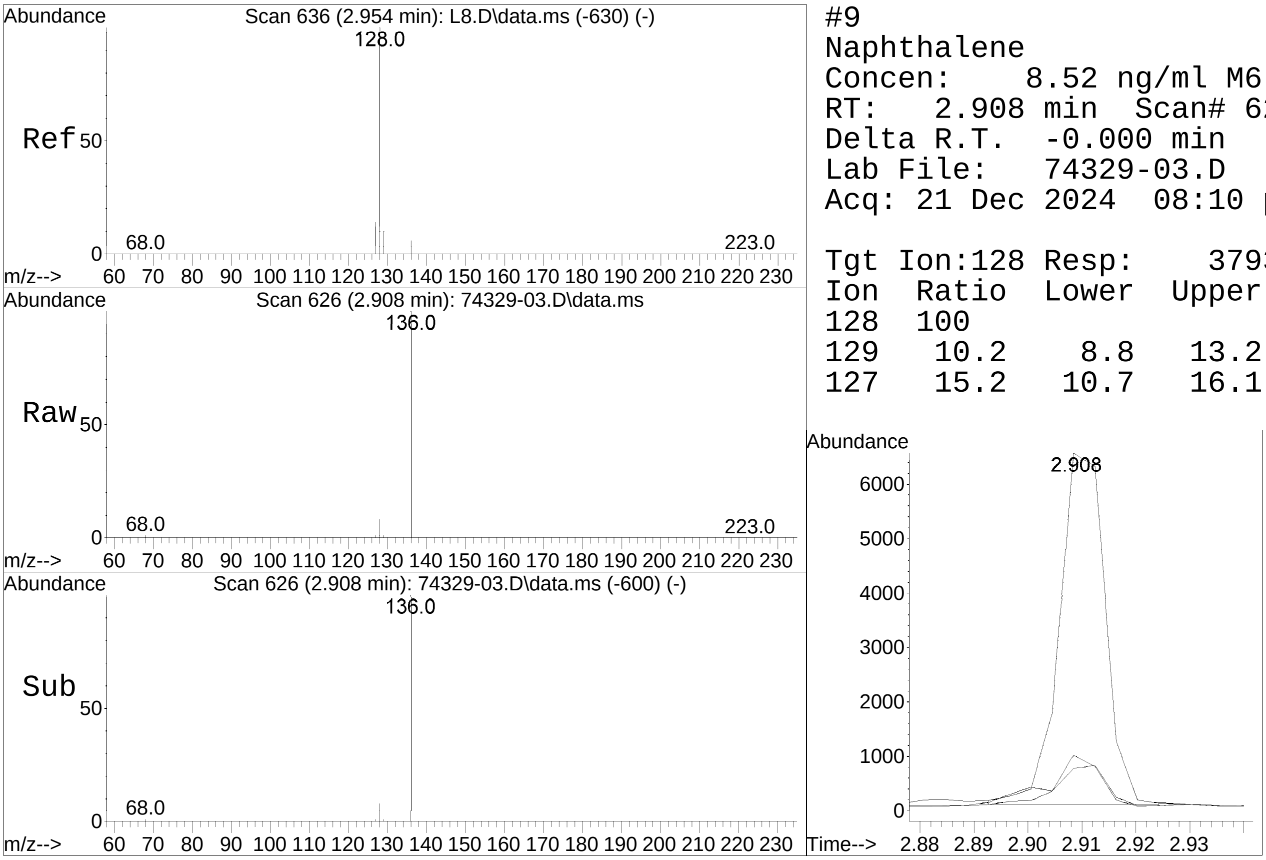
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : 74329-03.D
Acq On : 21 Dec 2024 08:10 pm
Operator : SV118:slr
Sample : L2474329-03,32,,rp
Misc : WG2012269,WG2012049,ical21646
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 23 13:20:41 2024
Quant Method : I:\8270sim\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:00 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv1221a.D•

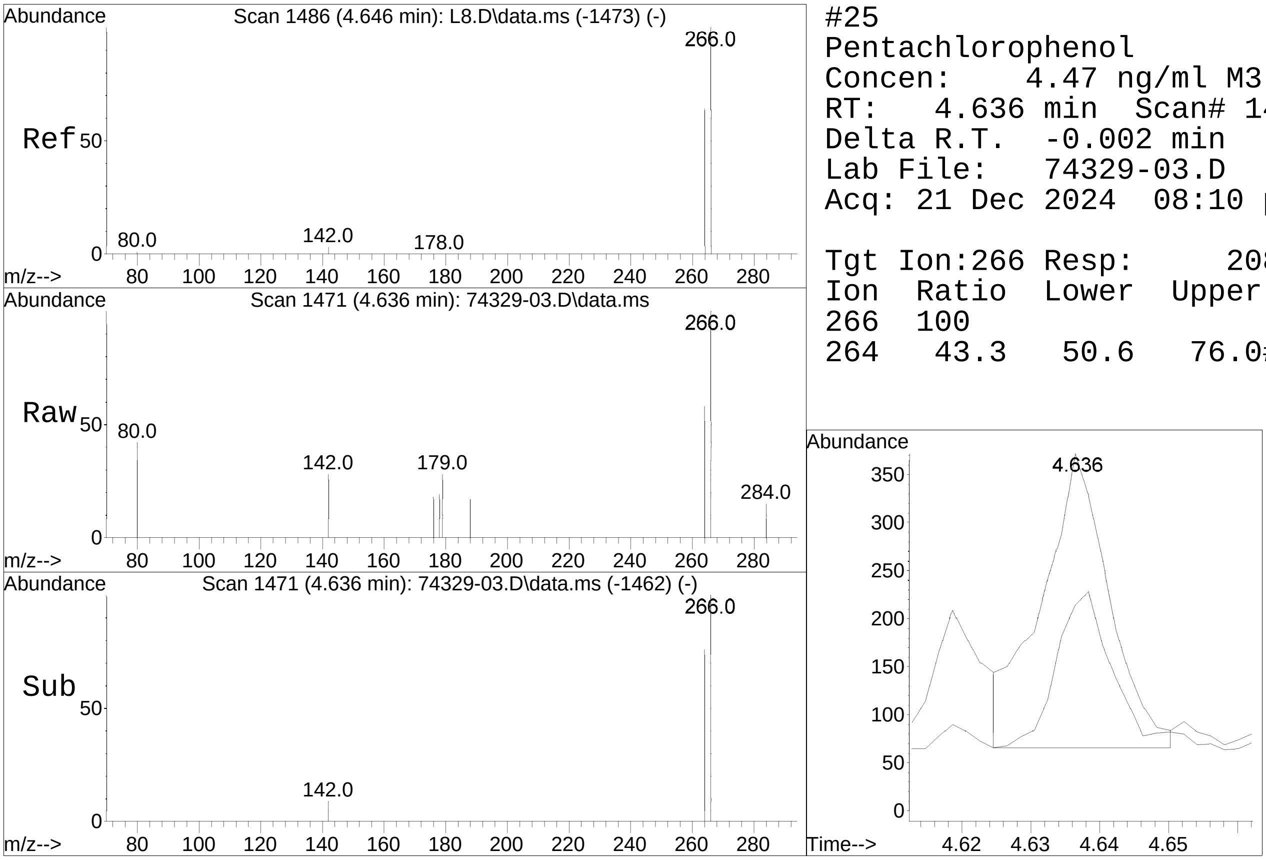





#9
Naphthalene
Concen: 8.52 ng/ml M6
RT: 2.908 min Scan# 626
Delta R.T. -0.000 min
Lab File: 74329-03.D
Acq: 21 Dec 2024 08:10 pm

Tgt Ion:128 Resp: 3793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.2 | 8.8 | 13.2 |
| 127 | 15.2 | 10.7 | 16.1 |




#25
Pentachlorophenol
Concen: 4.47 ng/ml M3
RT: 4.636 min Scan# 1471
Delta R.T. -0.002 min
Lab File: 74329-03.D
Acq: 21 Dec 2024 08:10 pm

Tgt Ion:266 Resp: 208

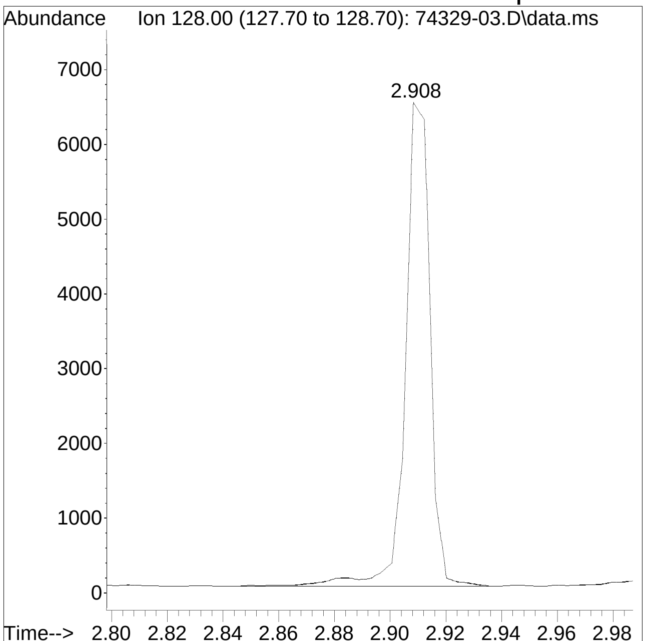
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 43.3 | 50.6 | 76.0# |

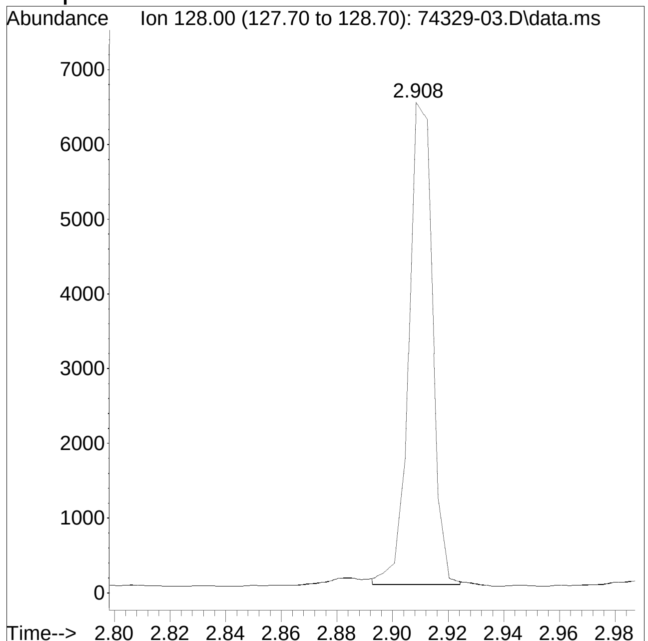
Manual Integration Report

Data Path : I:\8270SIM\SV118\241221aRVQ
Data File : 74329-03.D
Date Inj'd : 12/21/2024 8:10 pm
Sample : L2474329-03,32,,rp

Method : SIM-RVT_241025sv118.M
Operator : SV118:slr
Instrument : SV118
Quant Date : 12/21/2024 8:23 pm

Compound #9: Naphthalene




Original Peak Response = 3985

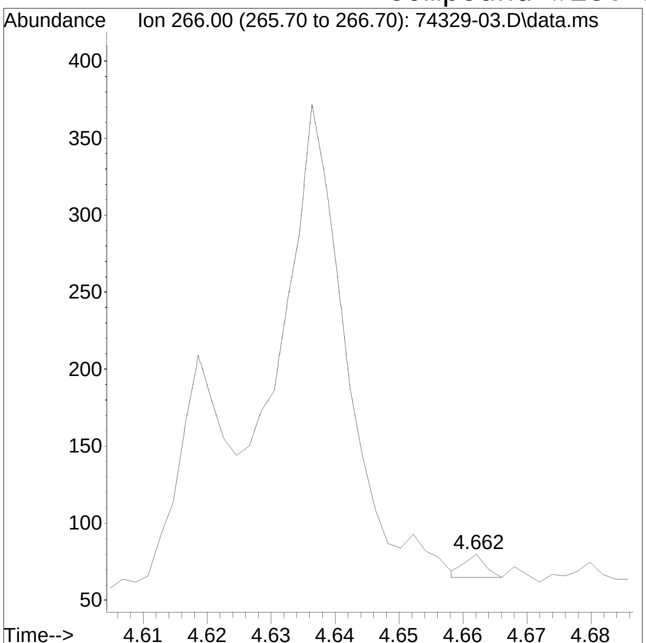
Manual Peak Response = 3793 M6

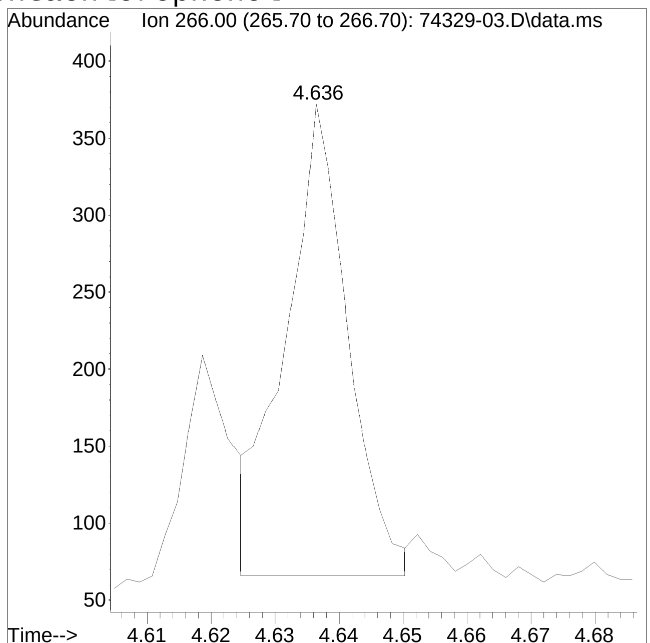
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\241221aRVQMethod     : SIM-RVT_241025sv118.M
Data File   : 74329-03.D                  Operator    : SV118:slr
Date Inj'd  : 12/21/2024  8:10 pm         Instrument  : SV118
Sample      : L2474329-03,32,,rp          Quant Date  : 12/21/2024  8:23 pm
```

Compound #25: Pentachlorophenol




Original Peak Response = 3          Manual Peak Response = 208 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:\8270SIM\SV118\241221aRVT\
Data File : 74329-04.D
Acq On    : 21 Dec 2024  08:27 pm
Operator  : SV118:slr
Sample    : L2474329-04,32,,rp
Misc      : WG2012269,WG2012049,ical21646
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Dec 23 13:22:41 2024
Quant Method : I:\8270sim\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241221aRVT\ccv1221a.D
Sub List     : DEFAULT - All compounds listed

       Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 --------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4      2.231  152    475660   4000.000 ng/ml    0.00
   Standard Area 1 = 288875                Recovery   =  164.66%
 8) Naphthalene-d8              2.901  136   1722463   4000.000 ng/ml    0.00
   Standard Area 1 = 1082128                Recovery   =  159.17%
17) Acenaphthene-d10            3.890  164    959043   4000.000 ng/ml    0.00
   Standard Area 1 = 599204                Recovery   =  160.05%
22) Phenanthrene-d10            4.739  188   1878389   4000.000 ng/ml  # 0.00
   Standard Area 1 = 1192441                Recovery   =  157.52%
31) Chrysene-d12                6.290  240   1560921   4000.000 ng/ml    0.00
   Standard Area 1 = 1002090                Recovery   =  155.77%
36) Perylene-d12                7.519  264   1409964   4000.000 ng/ml    0.00
   Standard Area 1 = 933388                Recovery   =  151.06%

 System Monitoring Compounds
 2) 2-Fluorophenol              1.648  112    134244   998.218 ng/ml   0.01
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   49.91%
 3) Phenol-d6                   2.047   99    121951   737.964 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   36.90%
 7) Nitrobenzene-d5             2.515   82    115456   1082.163 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =  108.22%
13) 2-Fluorobiphenyl            3.504  172    270476   816.675 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   81.67%
21) 2,4,6-Tribromophenol        4.340  330     74346   1682.347 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   84.12%
30) 4-Terphenyl-d14             5.657  244    297788   774.820 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   77.48%

 Target Compounds                                                  Qvalue
 4) Bis(2-chloroethyl)ether     0.000                 0       N.D. d
 6) Hexachloroethane            0.000                 0       N.D. d
 9) Naphthalene                 2.913  128        505M6    1.114 ng/ml
10) Hexachlorobutadiene         0.000                 0       N.D. d
11) 2-Methylnaphthalene         0.000                 0       N.D. d
14) 2-Chloronaphthalene         0.000                 0       N.D. d
16) Acenaphthylene              0.000                 0       N.D. d
18) Acenaphthene                0.000                 0       N.D. d
20) Fluorene                    0.000                 0       N.D. d
24) Hexachlorobenzene           0.000                 0       N.D. d
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : 74329-04.D
Acq On : 21 Dec 2024 08:27 pm
Operator : SV118:slr
Sample : L2474329-04,32,,rp
Misc : WG2012269,WG2012049,ical21646
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 23 13:22:41 2024
Quant Method : I:\8270sim\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241221aRVT\ccv1221a.D
Sub List : DEFAULT - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 25) Pentachlorophenol | 4.638 | 266 | 165 | 3.587 ng/ml# | 79 |
| 26) Phenanthrene | 0.000 | | 0 | N.D. d | |
| 27) Anthracene | 0.000 | | 0 | N.D. d | |
| 28) Fluoranthene | 0.000 | | 0 | N.D. d | |
| 29) Pyrene | 0.000 | | 0 | N.D. d | |
| 32) Benzo[a]anthracene | 0.000 | | 0 | N.D. d | |
| 34) Chrysene | 0.000 | | 0 | N.D. d | |
| 37) Benzo[b]fluoranthene | 0.000 | | 0 | N.D. d | |
| 38) Benzo[k]fluoranthene | 0.000 | | 0 | N.D. d | |
| 39) Benzo[a]pyrene | 0.000 | | 0 | N.D. d | |
| 40) Indeno[1,2,3-cd]pyrene | 0.000 | | 0 | N.D. d | |
| 41) Dibenzo[a,h]anthracene | 0.000 | | 0 | N.D. d | |
| 42) Benzo[g,h,i]perylene | 0.000 | | 0 | N.D. d | |

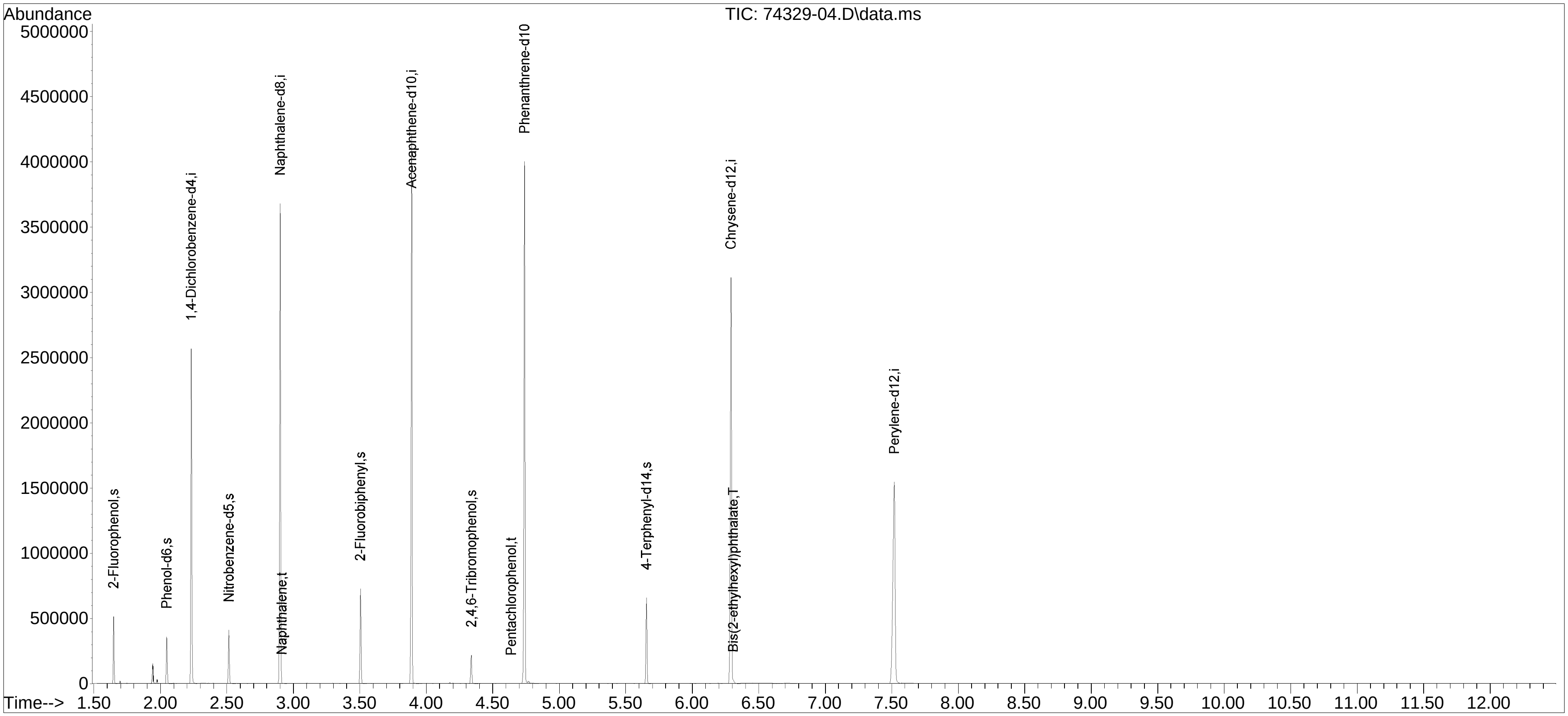
(#) = qualifier out of range (m) = manual integration (+) = signals summed

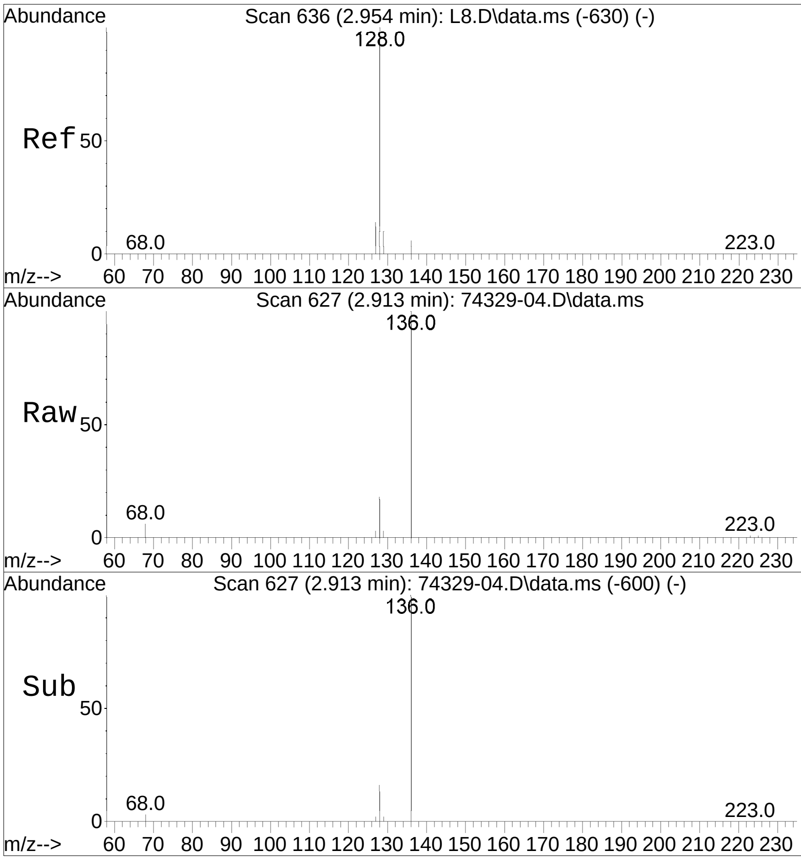
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : 74329-04.D
Acq On : 21 Dec 2024 08:27 pm
Operator : SV118:slr
Sample : L2474329-04,32,,rp
Misc : WG2012269,WG2012049,ical21646
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 23 13:22:41 2024
Quant Method : I:\8270sim\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:00 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv1221a.D•

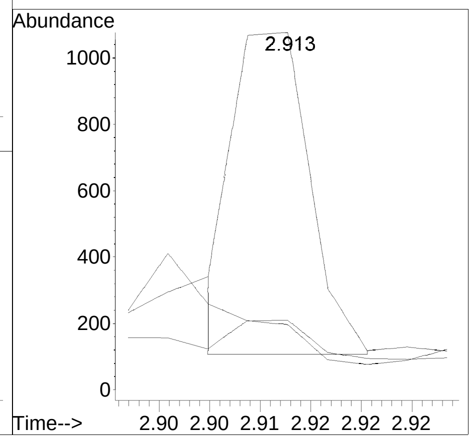


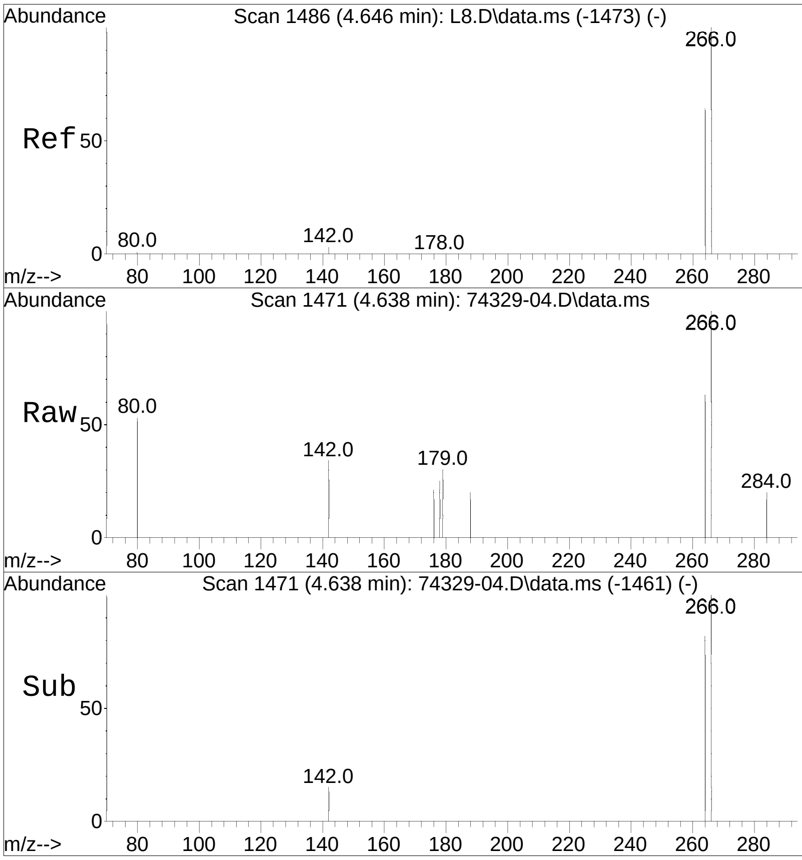



#9
Naphthalene
Concen: 1.11 ng/ml M6
RT: 2.913 min Scan# 627
Delta R.T. 0.004 min
Lab File: 74329-04.D
Acq: 21 Dec 2024 08:27 pm

Tgt Ion:128 Resp: 505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 13.7 | 8.8 | 13.2# |
| 127 | 11.5 | 10.7 | 16.1 |

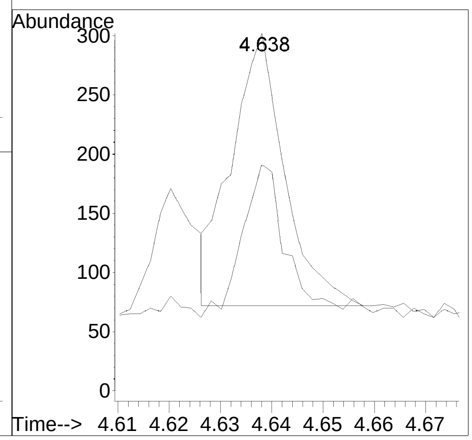





#25
Pentachlorophenol
Concen: 3.59 ng/ml
RT: 4.638 min Scan# 1471
Delta R.T. -0.000 min
Lab File: 74329-04.D
Acq: 21 Dec 2024 08:27 pm

Tgt Ion:266 Resp: 165

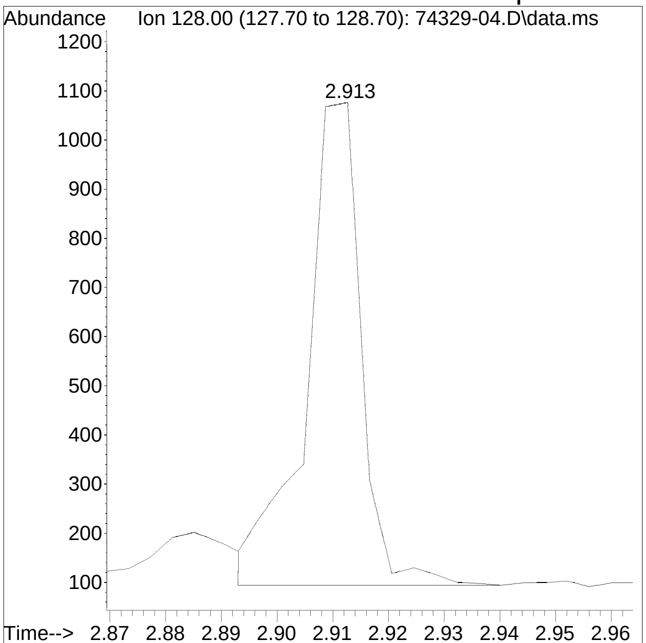
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 47.3 | 50.6 | 76.0# |

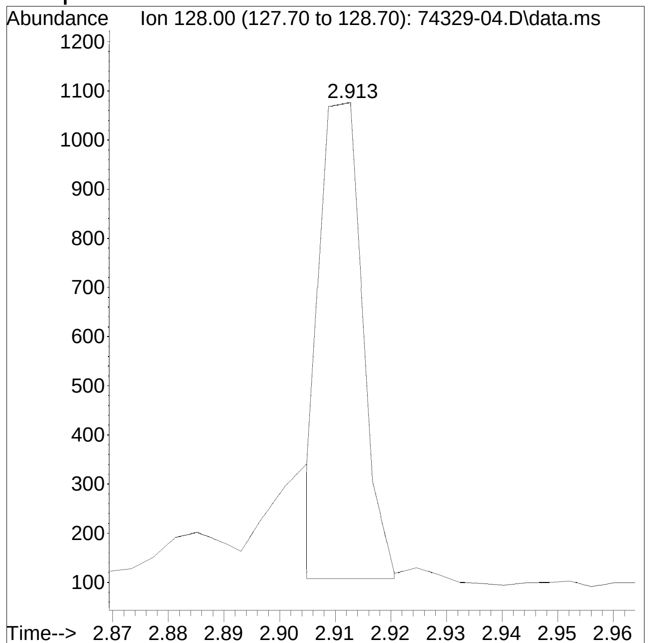


Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\241221aRVQMethod     : SIM-RVT_241025sv118.M
Data File   : 74329-04.D                  Operator    : SV118:slr
Date Inj'd  : 12/21/2024  8:27 pm         Instrument  : SV118
Sample      : L2474329-04,32,,rp          Quant Date  : 12/21/2024  8:40 pm
```

Compound #9: Naphthalene




Original Peak Response = 670        Manual Peak Response = 505 M6

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

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : 74329-05.D
Acq On    : 21 Dec 2024  08:44 pm
Operator  : SV118:slr
Sample    : L2474329-05,32,,rp
Misc      : WG2012269,WG2012049,ical21646
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Dec 23 13:24:20 2024
Quant Method : I:\8270sim\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241221aRVT\ccv1221a.D
Sub List     : DEFAULT - All compounds listed

       Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4      2.235  152    480908   4000.000 ng/ml    0.00
    Standard Area 1 = 288875                Recovery   =  166.48%
 8) Naphthalene-d8              2.901  136   1735759   4000.000 ng/ml    0.00
    Standard Area 1 = 1082128                Recovery   =  160.40%
17) Acenaphthene-d10            3.889  164    961489   4000.000 ng/ml    0.00
    Standard Area 1 = 599204                Recovery   =  160.46%
22) Phenanthrene-d10            4.739  188   1882732   4000.000 ng/ml  # 0.00
    Standard Area 1 = 1192441                Recovery   =  157.89%
31) Chrysene-d12                6.289  240   1561311   4000.000 ng/ml   -0.01
    Standard Area 1 = 1002090                Recovery   =  155.81%
36) Perylene-d12                7.514  264   1392705   4000.000 ng/ml   -0.01
    Standard Area 1 = 933388                Recovery   =  149.21%

 System Monitoring Compounds
 2) 2-Fluorophenol              1.651  112    140741   1035.108 ng/ml   0.02
    Spiked Amount   2000.000   Range  15 - 110    Recovery   =   51.76%
 3) Phenol-d6                   2.047   99    132682   794.138 ng/ml   0.00
    Spiked Amount   2000.000   Range  15 - 110    Recovery   =   39.71%
 7) Nitrobenzene-d5             2.515   82    111228   1031.157 ng/ml   0.00
    Spiked Amount   1000.000   Range  30 - 130    Recovery   =  103.12%
13) 2-Fluorobiphenyl            3.504  172    260865   781.622 ng/ml   0.00
    Spiked Amount   1000.000   Range  30 - 130    Recovery   =   78.16%
21) 2,4,6-Tribromophenol        4.340  330     67882   1532.168 ng/ml   0.00
    Spiked Amount   2000.000   Range  15 - 110    Recovery   =   76.61%
30) 4-Terphenyl-d14             5.655  244    290064   752.982 ng/ml   0.00
    Spiked Amount   1000.000   Range  30 - 130    Recovery   =   75.30%

 Target Compounds                                                  Qvalue
 4) Bis(2-chloroethyl)ether     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
14) 2-Chloronaphthalene         0.000                 0       N.D. d
16) Acenaphthylene              0.000                 0       N.D. d
18) Acenaphthene                0.000                 0       N.D. d
20) Fluorene                    0.000                 0       N.D. d
24) Hexachlorobenzene           0.000                 0       N.D. d
```

Quantitation Report    (QT Reviewed)

Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : 74329-05.D
Acq On    : 21 Dec 2024  08:44 pm
Operator  : SV118:slr
Sample    : L2474329-05,32,,rp
Misc      : WG2012269,WG2012049,ical21646
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Dec 23 13:24:20 2024
Quant Method : I:\8270sim\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241221aRVT\ccv1221a.D
Sub List     : DEFAULT - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 25) Pentachlorophenol | 0.000 | | 0 | N.D. d | |
| 26) Phenanthrene | 4.751 | 178 | 1862M4 | 3.643 ng/ml | |
| 27) Anthracene | 0.000 | | 0 | N.D. d | |
| 28) Fluoranthene | 0.000 | | 0 | N.D. d | |
| 29) Pyrene | 0.000 | | 0 | N.D. d | |
| 32) Benzo[a]anthracene | 0.000 | | 0 | N.D. d | |
| 34) Chrysene | 0.000 | | 0 | N.D. d | |
| 37) Benzo[b]fluoranthene | 0.000 | | 0 | N.D. d | |
| 38) Benzo[k]fluoranthene | 0.000 | | 0 | N.D. d | |
| 39) Benzo[a]pyrene | 0.000 | | 0 | N.D. d | |
| 40) Indeno[1,2,3-cd]pyrene | 0.000 | | 0 | N.D. d | |
| 41) Dibenzo[a,h]anthracene | 0.000 | | 0 | N.D. d | |
| 42) Benzo[g,h,i]perylene | 0.000 | | 0 | N.D. d | |

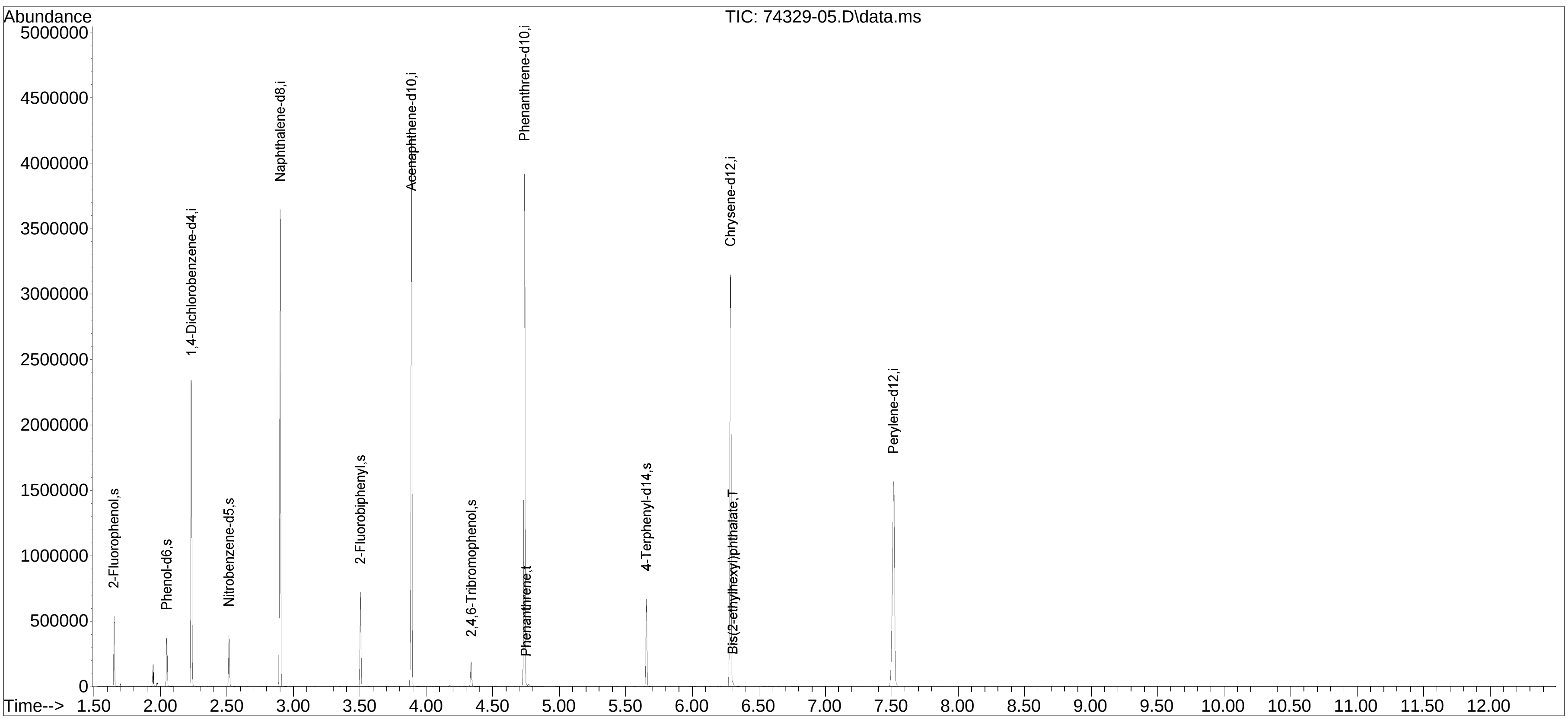
(#) = qualifier out of range (m) = manual integration (+) = signals summed

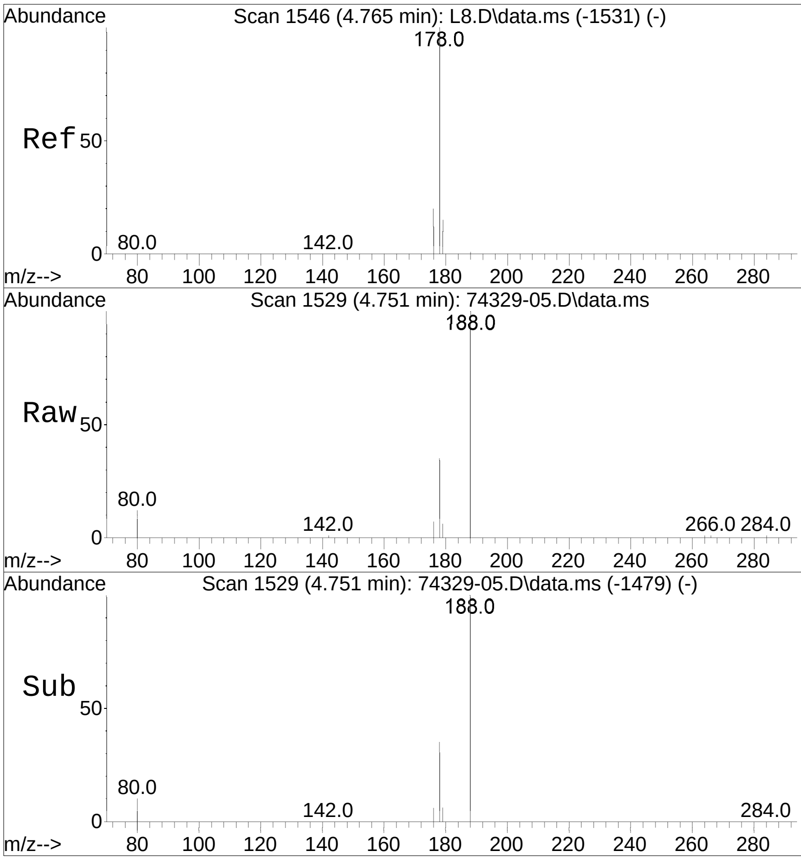
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : 74329-05.D
Acq On : 21 Dec 2024 08:44 pm
Operator : SV118:slr
Sample : L2474329-05,32,,rp
Misc : WG2012269,WG2012049,ical21646
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 23 13:24:20 2024
Quant Method : I:\8270sim\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:00 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv1221a.D•

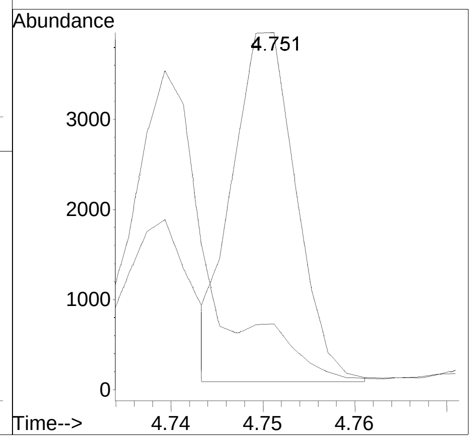





#26
Phenanthrene
Concen: 3.64 ng/ml M4
RT: 4.751 min Scan# 1529
Delta R.T. -0.001 min
Lab File: 74329-05.D
Acq: 21 Dec 2024 08:44 pm

Tgt Ion:178 Resp: 1862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 13.9 | 12.5 | 18.7 |

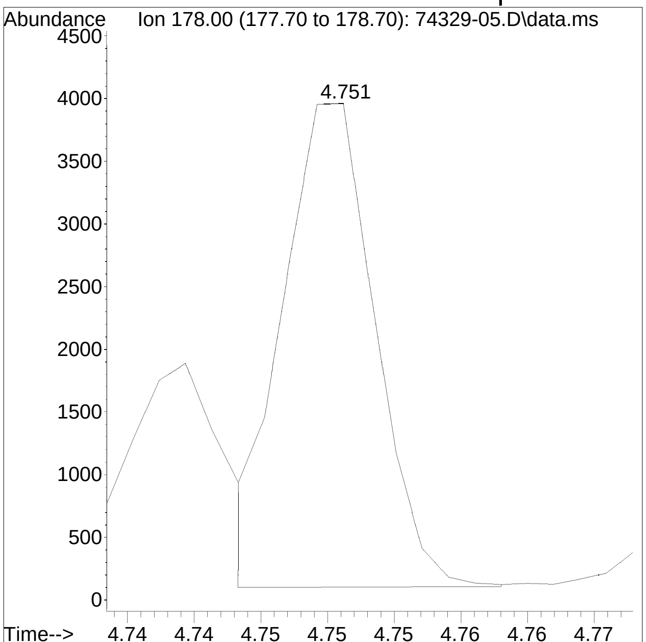


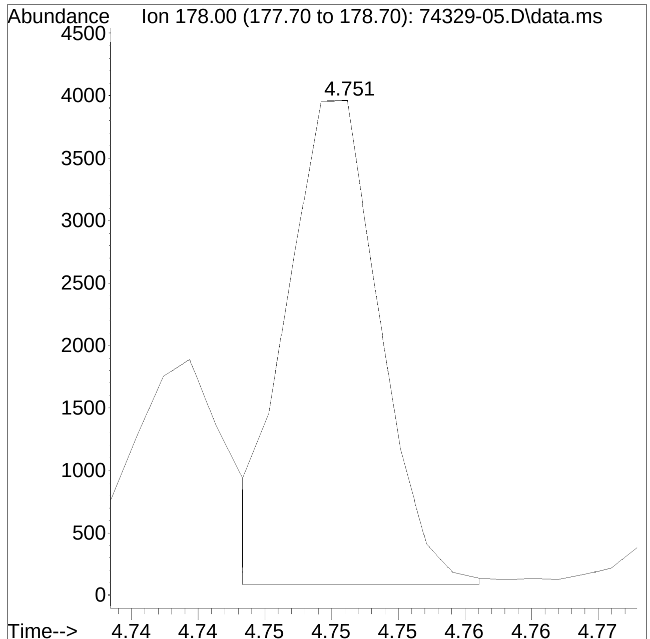
Manual Integration Report

Data Path : I:\8270SIM\SV118\241221aRVQ
Data File : 74329-05.D
Date Inj'd : 12/21/2024 8:44 pm
Sample : L2474329-05,32,,rp

Method : SIM-RVT_241025sv118.M
Operator : SV118:slr
Instrument : SV118
Quant Date : 12/21/2024 8:57 pm

Compound #26: Phenanthrene




Original Peak Response = 1847

Manual Peak Response = 1862 M4

M4 = Poor automated baseline construction.

# Semivolatiles Standards Data

# Initial Calibration

# Initial Calibration Summary
# Form 6
# Semivolatiles

| | | | |
|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Instrument ID** | : **SV118** | **Ical Ref** | : **ICAL21646** |
| **Calibration dates** | : **10/25/24 16:43 10/25/24 19:21** | | |

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 | 1.270 | 1.175 | 1.089 | 1.059 | 1.064 | 1.312 | 1.096 | 1.108 | 1.085 | 1.052 | 1.131 | 8.10 |
| 3) | s | Phenol-d6 | | 1.509 | 1.330 | 1.309 | 1.306 | 1.633 | 1.358 | 1.381 | 1.355 | 1.327 | 1.390 | 7.92 |
| 4) | T | bis(2-Chloroethyl)ether | | | 1.283 | 1.212 | 1.202 | 1.983 | 1.201 | 1.208 | 1.190 | 1.160 | *L | 0.9949 |
| 5) | T | n-Nitrosodi-n-propylamine | | 0.972 | 0.846 | 0.805 | 0.780 | 1.008 | 0.848 | 0.875 | 0.885 | 0.891 | 0.879 | 8.34 |
| 6) | t | Hexachloroethane | | | 0.513 | 0.478 | 0.470 | 0.588 | 0.493 | 0.501 | 0.493 | 0.479 | 0.502 | 7.46 |
| 7) | s | Nitrobenzene-d5 | 0.895 | 0.866 | 0.811 | 0.822 | 0.829 | 1.066 | 0.900 | 0.941 | 0.936 | 0.906 | 0.897 | 8.38 |
| 8) | i | Naphthalene-d8 | ----------------ISTD-------------------- | | | | | | | | | | | |
| 9) | t | Naphthalene | | 1.112 | 1.089 | 1.043 | 1.006 | 1.243 | 1.015 | 1.023 | 0.994 | 0.952 | 1.053 | 8.18 |
| 10) | t | Hexachlorobutadiene | | | | 0.182 | 0.182 | 0.223 | 0.183 | 0.184 | 0.183 | 0.172 | 0.187 | 8.78 |
| 11) | t | 2-Methylnaphthalene | | 0.712 | 0.668 | 0.642 | 0.636 | 0.795 | 0.663 | 0.669 | 0.655 | 0.631 | 0.674 | 7.59 |
| 12) | t | 1-Methylnaphthalene | | 0.676 | 0.623 | 0.584 | 0.595 | 0.742 | 0.612 | 0.618 | 0.605 | 0.593 | 0.627 | 8.09 |
| 13) | s | 2-Fluorobiphenyl | 0.820 | 0.810 | 0.754 | 0.727 | 0.724 | 0.907 | 0.751 | 0.749 | 0.736 | 0.711 | 0.769 | 7.81 |
| 14) | t | 2-Chloronaphthalene | | 0.710 | 0.674 | 0.633 | 0.636 | 0.799 | 0.667 | 0.673 | 0.657 | 0.643 | 0.677 | 7.62 |
| 15) | t | 2,6-Dinitrotoluene | | | 0.097 | 0.085 | 0.066 | 0.088 | 0.087 | 0.097 | 0.104 | 0.110 | 0.092 | 14.66 |
| 16) | t | Acenaphthylene | | 1.017 | 0.952 | 0.900 | 0.919 | 1.177 | 1.010 | 1.024 | 1.011 | 1.008 | 1.002 | 7.98 |
| 17) | i | Acenaphthene-d10 | ----------------ISTD-------------------- | | | | | | | | | | | |
| 18) | t | Acenaphthene | | 1.383 | 1.336 | 1.259 | 1.239 | 1.560 | 1.270 | 1.270 | 1.254 | 1.197 | 1.308 | 8.35 |
| 19) | t | 2,4-Dinitrotoluene | | | | | 0.137 | 0.195 | 0.207 | 0.231 | 0.252 | 0.260 | *L | 0.9978 |
| 20) | t | Fluorene | | 1.480 | 1.339 | 1.304 | 1.309 | 1.672 | 1.395 | 1.388 | 1.355 | 1.297 | 1.393 | 8.56 |
| 21) | s | 2,4,6-Tribromophenol | | | 0.170 | 0.154 | 0.158 | 0.212 | 0.190 | 0.195 | 0.200 | 0.195 | 0.184 | 11.47 |
| 22) | i | Phenanthrene-d10 | ----------------ISTD-------------------- | | | | | | | | | | | |
| 23) | T | 4,6-Dinitro-o-cresol | | | | | 0.028 | 0.041 | 0.042 | 0.047 | 0.051 | 0.053 | *L | 0.9972 |
| 24) | t | Hexachlorobenzene | | 0.291 | 0.258 | 0.254 | 0.248 | 0.316 | 0.259 | 0.259 | 0.253 | 0.234 | 0.263 | 9.34 |
| 25) | t | Pentachlorophenol | | | | 0.078 | 0.084 | 0.084 | 0.090 | 0.110 | 0.121 | 0.120 | 0.098 | 18.74 |
| 26) | t | Phenanthrene | | 1.200 | 1.109 | 1.049 | 1.039 | 1.303 | 1.054 | 1.045 | 1.020 | 0.953 | 1.086 | 9.71 |
| 27) | t | Anthracene | | 1.104 | 1.056 | 0.993 | 1.002 | 1.277 | 1.063 | 1.064 | 1.043 | 0.989 | 1.066 | 8.28 |
| 28) | t | Fluoranthene | | 1.303 | 1.185 | 1.128 | 1.144 | 1.474 | 1.235 | 1.200 | 1.147 | 1.123 | 1.216 | 9.30 |
| 29) | t | Pyrene | | 1.402 | 1.265 | 1.195 | 1.197 | 1.544 | 1.325 | 1.274 | 1.226 | 1.193 | 1.291 | 9.08 |
| 30) | s | 4-Terphenyl-d14 | 0.927 | 0.861 | 0.807 | 0.746 | 0.766 | 0.981 | 0.824 | 0.790 | 0.755 | 0.727 | 0.818 | 10.09 |
| 31) | i | Chrysene-d12 | ----------------ISTD-------------------- | | | | | | | | | | | |
| 32) | t | Benzo[a]anthracene | | | 0.545 | 0.411 | 0.334 | 0.421 | 0.357 | 0.358 | 0.361 | 0.346 | 0.392 | 17.63 |
| 33) | t | 3,3'-Dichlorobenzidine | | | 0.322 | 0.318 | 0.340 | 0.476 | 0.447 | 0.472 | 0.485 | 0.480 | 0.418 | 18.25 |
| 34) | t | Chrysene | | 1.165 | 1.253 | 1.131 | 1.163 | 1.469 | 1.221 | 1.193 | 1.171 | 1.094 | 1.207 | 9.00 |
| 35) | T | bis(2-Ethylhexyl)phthalate | | | | 0.711 | 0.493 | 0.692 | 0.687 | 0.739 | 0.785 | 0.763 | 0.696 | 13.85 |
| 36) | i | Perylene-d12 | ----------------ISTD-------------------- | | | | | | | | | | | |

# Initial Calibration Summary
# Form 6
# Semivolatiles

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Instrument ID** | **: SV118** | **Ical Ref** | **: ICAL21646** |
| **Calibration dates** | **: 10/25/24 16:43 10/25/24 19:21** | | |

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 | | 1.012 | 0.957 | 0.895 | 0.910 | 1.232 | 1.094 | 1.066 | 1.094 | 1.022 | 1.031 | 10.19 |
| 38) t | Benzo[k]fluoranthene | | 1.071 | 0.999 | 0.951 | 1.016 | 1.335 | 1.130 | 1.150 | 1.132 | 1.059 | 1.093 | 10.30 |
| 39) t | Benzo[a]pyrene | | 0.825 | 0.796 | 0.772 | 0.801 | 1.088 | 0.973 | 0.978 | 1.000 | 0.968 | 0.911 | 12.45 |
| 40) t | Indeno[1,2,3-cd]pyrene | | 0.686 | 0.687 | 0.678 | 0.696 | 0.986 | 0.934 | 0.961 | 0.981 | 1.036 | 0.849 | 18.43 |
| 41) t | Dibenzo[a,h]anthracene | | | 0.657 | 0.656 | 0.728 | 1.048 | 0.937 | 0.944 | 0.962 | 0.983 | 0.865 | 18.23 |
| 42) t | Benzo[g,h,i]perylene | | 0.784 | 0.781 | 0.753 | 0.795 | 1.061 | 0.938 | 0.942 | 0.958 | 1.003 | 0.890 | 12.72 |

# Initial Calibration Summary
# Form 6
# Semivolatiles

| | | | |
|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Instrument ID** | : **SV120** | **Ical Ref** | : **ICAL21668** |
| **Calibration dates** | : **11/05/24 07:30    11/05/24 09:57** | | |

Calibration Files

L1 =IL1.D  L2 =IL2.D  L3 =IL3.D  L4 =IL4.D  L5 =IL5.D  L6 =IL6.D  L7 =IL7.D  L8 =IL8.D

L9 =IL9.D  L10 =IL10.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 | 1.181 | 1.270 | 1.198 | 1.168 | 1.150 | 1.414 | 1.190 | 1.156 | 1.049 | 0.996 | 1.177 | 9.65 |
| 3) | s | Phenol-d6 | 1.421 | 1.476 | 1.368 | 1.383 | 1.366 | 1.703 | 1.420 | 1.437 | 1.475 | 1.418 | 1.447 | 6.78 |
| 4) | T | bis(2-Chloroethyl)ether | | | | 1.180 | 1.209 | 2.019 | 1.197 | 1.185 | 1.180 | 1.103 | *Q | 0.9949 |
| 5) | T | n-Nitrosodi-n-propylamine | | | 0.854 | 0.813 | 0.816 | 1.027 | 0.852 | 0.871 | 0.891 | 0.856 | 0.873 | 7.74 |
| 6) | t | Hexachloroethane | | | 0.519 | 0.505 | 0.501 | 0.629 | 0.518 | 0.518 | 0.510 | 0.489 | 0.524 | 8.39 |
| 7) | s | Nitrobenzene-d5 | | 1.243 | 1.235 | 1.219 | 1.224 | 1.533 | 1.264 | 1.279 | 1.280 | 1.217 | 1.277 | 7.74 |
| 8) | i | Naphthalene-d8 | ----------------ISTD-------------------- | | | | | | | | | | | |
| 9) | t | Naphthalene | | 1.154 | 1.028 | 0.974 | 0.957 | 1.173 | 0.960 | 0.947 | 0.931 | 0.876 | 1.000 | 10.10 |
| 10) | t | Hexachlorobutadiene | | 0.205 | 0.193 | 0.186 | 0.183 | 0.223 | 0.185 | 0.182 | 0.179 | 0.169 | 0.189 | 8.32 |
| 11) | t | 2-Methylnaphthalene | 0.742 | 0.741 | 0.698 | 0.667 | 0.660 | 0.818 | 0.683 | 0.665 | 0.652 | 0.615 | 0.694 | 8.43 |
| 12) | t | 1-Methylnaphthalene | 0.669 | 0.683 | 0.649 | 0.619 | 0.615 | 0.762 | 0.623 | 0.606 | 0.597 | 0.563 | 0.639 | 8.75 |
| 13) | s | 2-Fluorobiphenyl | 0.894 | 0.876 | 0.822 | 0.801 | 0.797 | 0.977 | 0.778 | 0.744 | 0.711 | 0.663 | 0.806 | 11.41 |
| 14) | t | 2-Chloronaphthalene | 0.738 | 0.750 | 0.700 | 0.668 | 0.667 | 0.819 | 0.662 | 0.644 | 0.636 | 0.607 | 0.689 | 9.21 |
| 15) | t | 2,6-Dinitrotoluene | | | | | 0.130 | 0.170 | 0.150 | 0.152 | 0.156 | 0.178 | 0.156 | 10.83 |
| 16) | t | Acenaphthylene | 1.010 | 1.049 | 0.959 | 0.925 | 0.938 | 1.190 | 1.000 | 0.977 | 0.969 | 0.920 | 0.994 | 8.04 |
| 17) | i | Acenaphthene-d10 | ----------------ISTD-------------------- | | | | | | | | | | | |
| 18) | t | Acenaphthene | 1.347 | 1.308 | 1.174 | 1.193 | 1.153 | 1.415 | 1.141 | 1.136 | 1.136 | 1.070 | 1.207 | 9.18 |
| 19) | t | 2,4-Dinitrotoluene | | | | | 0.256 | 0.367 | 0.337 | 0.352 | 0.361 | 0.342 | 0.336 | 12.13 |
| 20) | t | Fluorene | 1.402 | 1.403 | 1.274 | 1.250 | 1.256 | 1.565 | 1.273 | 1.266 | 1.229 | 1.146 | 1.306 | 9.07 |
| 21) | s | 2,4,6-Tribromophenol | | 0.150 | 0.143 | 0.137 | 0.146 | 0.193 | 0.166 | 0.167 | 0.170 | 0.163 | 0.159 | 10.79 |
| 22) | i | Phenanthrene-d10 | ----------------ISTD-------------------- | | | | | | | | | | | |
| 23) | T | 4,6-Dinitro-o-cresol | | | | | 0.068 | 0.099 | 0.102 | 0.111 | 0.123 | 0.121 | *L | 0.9983 |
| 24) | t | Hexachlorobenzene | | 0.234 | 0.216 | 0.207 | 0.203 | 0.251 | 0.206 | 0.202 | 0.198 | 0.185 | 0.211 | 9.43 |
| 25) | t | Pentachlorophenol | | | | 0.076 | 0.087 | 0.082 | 0.094 | 0.113 | 0.133 | 0.133 | *Q | 0.9965 |
| 26) | t | Phenanthrene | 0.797 | 0.930 | 0.897 | 0.967 | 0.944 | 1.205 | 0.973 | 0.954 | 0.959 | 0.906 | 0.953 | 10.75 |
| 27) | t | Anthracene | 1.028 | 1.011 | 0.975 | 0.933 | 0.932 | 1.179 | 0.975 | 0.972 | 0.964 | 0.894 | 0.986 | 7.91 |
| 28) | t | Fluoranthene | 1.259 | 1.192 | 1.089 | 1.028 | 1.038 | 1.304 | 1.063 | 1.044 | 1.018 | 0.943 | 1.098 | 10.54 |
| 29) | t | Pyrene | 1.281 | 1.229 | 1.126 | 1.073 | 1.071 | 1.358 | 1.099 | 1.079 | 1.035 | 0.970 | 1.132 | 10.60 |
| 30) | s | 4-Terphenyl-d14 | | 0.798 | 0.747 | 0.717 | 0.726 | 0.897 | 0.706 | 0.694 | 0.652 | 0.610 | 0.727 | 11.42 |
| 31) | i | Chrysene-d12 | ----------------ISTD-------------------- | | | | | | | | | | | |
| 32) | t | Benzo[a]anthracene | 1.294 | 0.717 | 0.357 | 0.229 | 0.142 | 0.152 | 0.126 | 0.121 | 0.126 | 0.120 | *L | 0.9993 |
| 33) | t | 3,3'-Dichlorobenzidine | | | | | 0.345 | 0.479 | 0.427 | 0.443 | 0.462 | 0.437 | 0.432 | 10.74 |
| 34) | t | Chrysene | 0.685 | 0.988 | 0.996 | 1.070 | 1.064 | 1.415 | 1.128 | 1.138 | 1.086 | 1.020 | 1.059 | 16.93 |
| 35) | T | bis(2-Ethylhexyl)phthalate | | | | | 0.540 | 0.722 | 0.670 | 0.719 | 0.806 | 0.789 | 0.708 | 13.59 |
| 36) | i | Perylene-d12 | ----------------ISTD-------------------- | | | | | | | | | | | |

# Initial Calibration Summary
# Form 6
# Semivolatiles

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Instrument ID** | : SV120 | **Ical Ref** | : ICAL21668 |
| **Calibration dates** | : 11/05/24 07:30 11/05/24 09:57 | | |

Calibration Files

L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D

L9 =IL9.D L10 =IL10.D

| | Compound | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | L10 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 37) t | Benzo[b]fluoranthene | 1.252 | 1.299 | 1.184 | 1.114 | 1.162 | 1.380 | 1.210 | 1.168 | 1.203 | 1.165 | 1.214 | 6.42 |
| 38) t | Benzo[k]fluoranthene | 1.121 | 1.055 | 1.039 | 1.002 | 0.950 | 1.351 | 1.152 | 1.129 | 1.123 | 0.990 | 1.091 | 10.44 |
| 39) t | Benzo[a]pyrene | 0.971 | 0.979 | 0.914 | 0.884 | 0.897 | 1.184 | 1.039 | 1.022 | 1.055 | 0.995 | 0.994 | 8.96 |
| 40) t | Indeno[1,2,3-cd]pyrene | 0.987 | 1.003 | 0.945 | 0.921 | 0.931 | 1.205 | 1.059 | 1.033 | 1.046 | 1.036 | 1.017 | 8.15 |
| 41) t | Dibenzo[a,h]anthracene | 0.936 | 0.951 | 0.893 | 0.882 | 0.912 | 1.198 | 0.992 | 0.963 | 0.922 | 0.900 | 0.955 | 9.59 |
| 42) t | Benzo[g,h,i]perylene | 0.998 | 0.996 | 0.941 | 0.929 | 0.931 | 1.196 | 1.007 | 0.990 | 0.959 | 0.924 | 0.987 | 8.11 |

Response Factor Report SV118

Method Path : I:\8270SIM\SV118\2024\241025RVTical\
Method File : SIM-RVT_241025sv118.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Nov 05 13:34:41 2024
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 | 1.270 | 1.175 | 1.089 | 1.059 | 1.064 | 1.312 | 1.096 | 1.108 | 1.085 | 1.052 | 1.131 | 8.10 |
| 3) | s | Phenol-d6 | | 1.509 | 1.330 | 1.309 | 1.306 | 1.633 | 1.358 | 1.381 | 1.355 | 1.327 | 1.390 | 7.92 |
| 4) | T | bis(2-Chloroethyl)ether | | | 1.283 | 1.212 | 1.202 | 1.983 | 1.201 | 1.208 | 1.190 | 1.160 | *L | 0.9949 |
| 5) | T | n-Nitrosodi-n-propylamine | | 0.972 | 0.846 | 0.805 | 0.780 | 1.008 | 0.848 | 0.875 | 0.885 | 0.891 | 0.879 | 8.34 |
| 6) | t | Hexachloroethane | | | 0.513 | 0.478 | 0.470 | 0.588 | 0.493 | 0.501 | 0.493 | 0.479 | 0.502 | 7.46 |
| 7) | s | Nitrobenzene-d5 | 0.895 | 0.866 | 0.811 | 0.822 | 0.829 | 1.066 | 0.900 | 0.941 | 0.936 | 0.906 | 0.897 | 8.38 |
| 8) | i | Naphthalene-d8 | ----------------ISTD-------------------- | | | | | | | | | | | |
| 9) | t | Naphthalene | | 1.112 | 1.089 | 1.043 | 1.006 | 1.243 | 1.015 | 1.023 | 0.994 | 0.952 | 1.053 | 8.18 |
| 10) | t | Hexachlorobutadiene | | | | 0.182 | 0.182 | 0.223 | 0.183 | 0.184 | 0.183 | 0.172 | 0.187 | 8.78 |
| 11) | t | 2-Methylnaphthalene | | 0.712 | 0.668 | 0.642 | 0.636 | 0.795 | 0.663 | 0.669 | 0.655 | 0.631 | 0.674 | 7.59 |
| 12) | t | 1-Methylnaphthalene | | 0.676 | 0.623 | 0.584 | 0.595 | 0.742 | 0.612 | 0.618 | 0.605 | 0.593 | 0.627 | 8.09 |
| 13) | s | 2-Fluorobiphenyl | 0.820 | 0.810 | 0.754 | 0.727 | 0.724 | 0.907 | 0.751 | 0.749 | 0.736 | 0.711 | 0.769 | 7.81 |
| 14) | t | 2-Chloronaphthalene | | 0.710 | 0.674 | 0.633 | 0.636 | 0.799 | 0.667 | 0.673 | 0.657 | 0.643 | 0.677 | 7.62 |
| 15) | t | 2,6-Dinitrotoluene | | | 0.097 | 0.085 | 0.066 | 0.088 | 0.087 | 0.097 | 0.104 | 0.110 | 0.092 | 14.66 |
| 16) | t | Acenaphthylene | | 1.017 | 0.952 | 0.900 | 0.919 | 1.177 | 1.010 | 1.024 | 1.011 | 1.008 | 1.002 | 7.98 |
| 17) | i | Acenaphthene-d10 | ----------------ISTD-------------------- | | | | | | | | | | | |
| 18) | t | Acenaphthene | | 1.383 | 1.336 | 1.259 | 1.239 | 1.560 | 1.270 | 1.270 | 1.254 | 1.197 | 1.308 | 8.35 |
| 19) | t | 2,4-Dinitrotoluene | | | | | 0.137 | 0.195 | 0.207 | 0.231 | 0.252 | 0.260 | *L | 0.9978 |
| 20) | t | Fluorene | | 1.480 | 1.339 | 1.304 | 1.309 | 1.672 | 1.395 | 1.388 | 1.355 | 1.297 | 1.393 | 8.56 |
| 21) | s | 2,4,6-Tribromophenol | | | 0.170 | 0.154 | 0.158 | 0.212 | 0.190 | 0.195 | 0.200 | 0.195 | 0.184 | 11.47 |
| 22) | i | Phenanthrene-d10 | ----------------ISTD-------------------- | | | | | | | | | | | |
| 23) | T | 4,6-Dinitro-o-cresol | | | | | 0.028 | 0.041 | 0.042 | 0.047 | 0.051 | 0.053 | *L | 0.9972 |
| 24) | t | Hexachlorobenzene | | 0.291 | 0.258 | 0.254 | 0.248 | 0.316 | 0.259 | 0.259 | 0.253 | 0.234 | 0.263 | 9.34 |
| 25) | t | Pentachlorophenol | | | | 0.078 | 0.084 | 0.084 | 0.090 | 0.110 | 0.121 | 0.120 | 0.098 | 18.74 |
| 26) | t | Phenanthrene | | 1.200 | 1.109 | 1.049 | 1.039 | 1.303 | 1.054 | 1.045 | 1.020 | 0.953 | 1.086 | 9.71 |
| 27) | t | Anthracene | | 1.104 | 1.056 | 0.993 | 1.002 | 1.277 | 1.063 | 1.064 | 1.043 | 0.989 | 1.066 | 8.28 |
| 28) | t | Fluoranthene | | 1.303 | 1.185 | 1.128 | 1.144 | 1.474 | 1.235 | 1.200 | 1.147 | 1.123 | 1.216 | 9.30 |
| 29) | t | Pyrene | | 1.402 | 1.265 | 1.195 | 1.197 | 1.544 | 1.325 | 1.274 | 1.226 | 1.193 | 1.291 | 9.08 |
| 30) | s | 4-Terphenyl-d14 | 0.927 | 0.861 | 0.807 | 0.746 | 0.766 | 0.981 | 0.824 | 0.790 | 0.755 | 0.727 | 0.818 | 10.09 |
| 31) | i | Chrysene-d12 | ----------------ISTD-------------------- | | | | | | | | | | | |
| 32) | t | Benzo[a]anthracene | | | 0.545 | 0.411 | 0.334 | 0.421 | 0.357 | 0.358 | 0.361 | 0.346 | 0.392 | 17.63 |
| 33) | t | 3,3'-Dichlorobenzidine | | | 0.322 | 0.318 | 0.340 | 0.476 | 0.447 | 0.472 | 0.485 | 0.480 | 0.418 | 18.25 |
| 34) | t | Chrysene | | 1.165 | 1.253 | 1.131 | 1.163 | 1.469 | 1.221 | 1.193 | 1.171 | 1.094 | 1.207 | 9.00 |
| 35) | T | bis(2-Ethylhexyl)phthalate | | | | 0.711 | 0.493 | 0.692 | 0.687 | 0.739 | 0.785 | 0.763 | 0.696 | 13.85 |
| 36) | i | Perylene-d12 | ----------------ISTD-------------------- | | | | | | | | | | | |
| 37) | t | Benzo[b]fluora... | | 1.012 | 0.957 | 0.895 | 0.910 | 1.232 | 1.094 | 1.066 | 1.094 | 1.022 | 1.031 | 10.19 |
| 38) | t | Benzo[k]fluora... | | 1.071 | 0.999 | 0.951 | 1.016 | 1.335 | 1.130 | 1.150 | 1.132 | 1.059 | 1.093 | 10.30 |
| 39) | t | Benzo[a]pyrene | | 0.825 | 0.796 | 0.772 | 0.801 | 1.088 | 0.973 | 0.978 | 1.000 | 0.968 | 0.911 | 12.45 |
| 40) | t | Indeno[1,2,3-c... | | 0.686 | 0.687 | 0.678 | 0.696 | 0.986 | 0.934 | 0.961 | 0.981 | 1.036 | 0.849 | 18.43 |
| 41) | t | Dibenzo[a,h]anthracene | | | 0.657 | 0.656 | 0.728 | 1.048 | 0.937 | 0.944 | 0.962 | 0.983 | 0.865 | 18.23 |
| 42) | t | Benzo[g,h,i]pe... | | 0.784 | 0.781 | 0.753 | 0.795 | 1.061 | 0.938 | 0.942 | 0.958 | 1.003 | 0.890 | 12.72 |

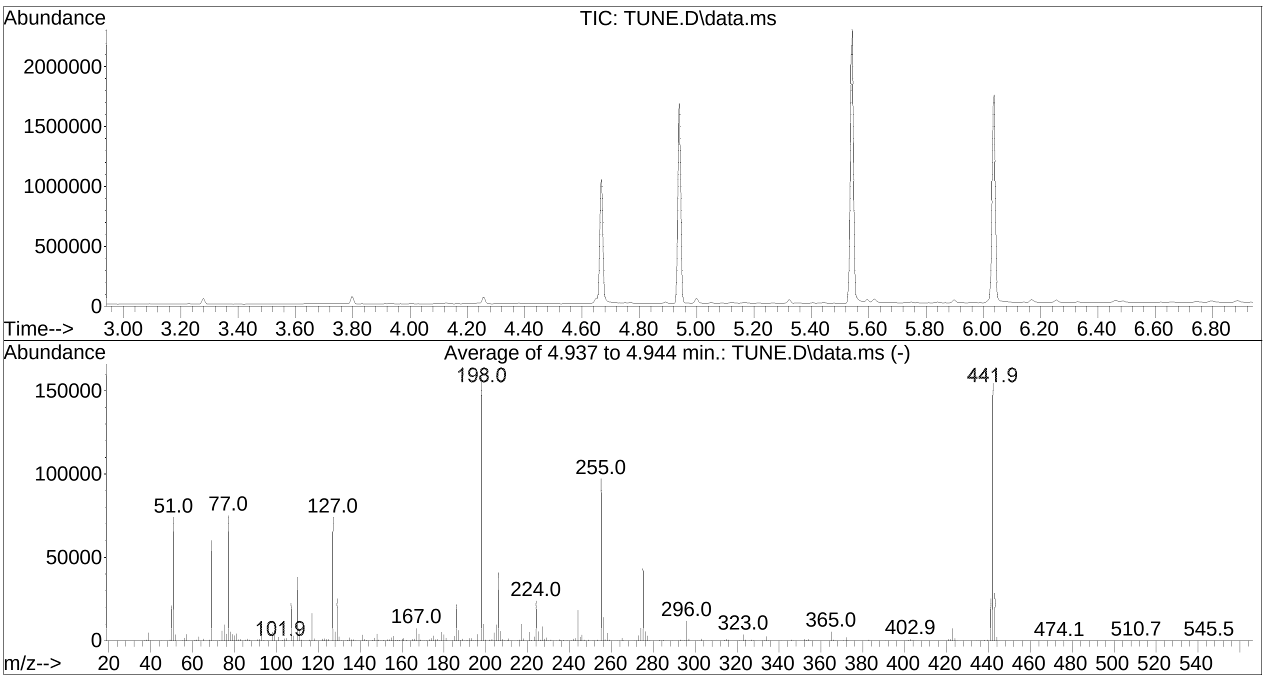
(#) = Out of Range

DFTPP

Data Path : I:\8270SIM\SV118\241025RVTical\
Data File : TUNE.D
Acq On : 25 Oct 2024 03:53 pm
Operator : SV118:dv
Sample : TUNE
Misc : WG1990947,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV118\241025RVTical\SIM-RVT_241025sv118.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Oct 28 11:02:57 2024



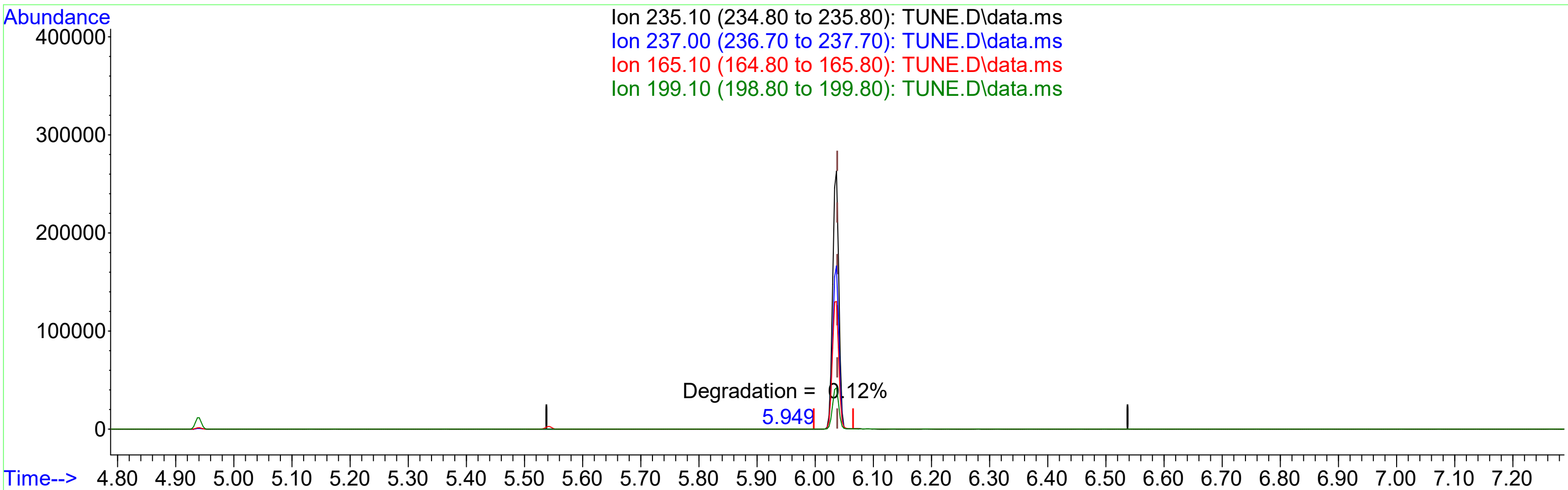

Spectrum Information: Average of 4.937 to 4.944 min.

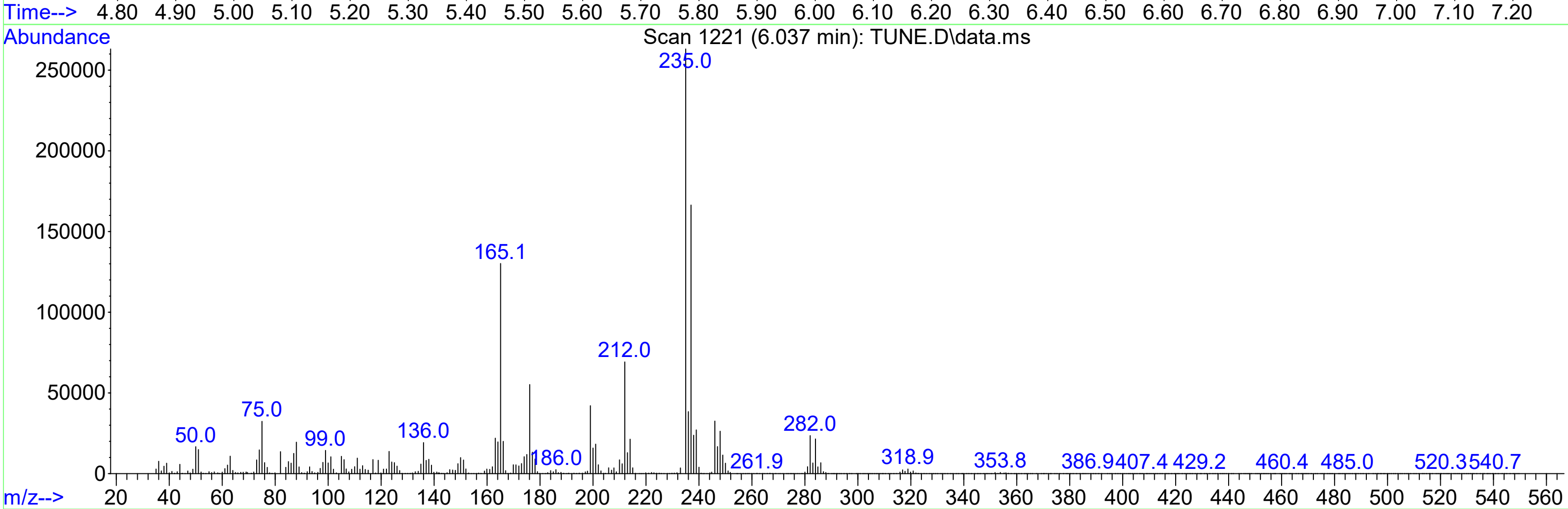
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 46.8 | 74020 | PASS |
| 68 | 69 | 0.00 | 2 | 1.4 | 853 | PASS |
| 69 | 69 | 100 | 100 | 100.0 | 59993 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 296 | PASS |
| 127 | 198 | 10 | 80 | 46.9 | 74182 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 158117 | PASS |
| 199 | 198 | 5 | 9 | 6.4 | 10110 | PASS |
| 275 | 198 | 10 | 60 | 27.3 | 43133 | PASS |
| 365 | 198 | 1 | 100 | 3.5 | 5542 | PASS |
| 441 | 442 | 0.01 | 24 | 16.3 | 25171 | PASS |
| 442 | 198 | 50 | 100 | 97.8 | 154617 | PASS |
| 443 | 442 | 15 | 24 | 18.4 | 28480 | PASS |

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV118\241025RVTical\
Data File : TUNE.D
Acq On : 25 Oct 2024 03:53 pm
Operator : SV118:dv
Sample : TUNE
Misc : WG1990947,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Oct 25 16:38:42 2024
Quant Method : I:\8270SIM\SV118\241025RVTical\dftppsv118.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 21 14:32:10 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D




CHROMtools™ [TUNE]

(6) ddt (T)

6.037min (-0.001) 31.91

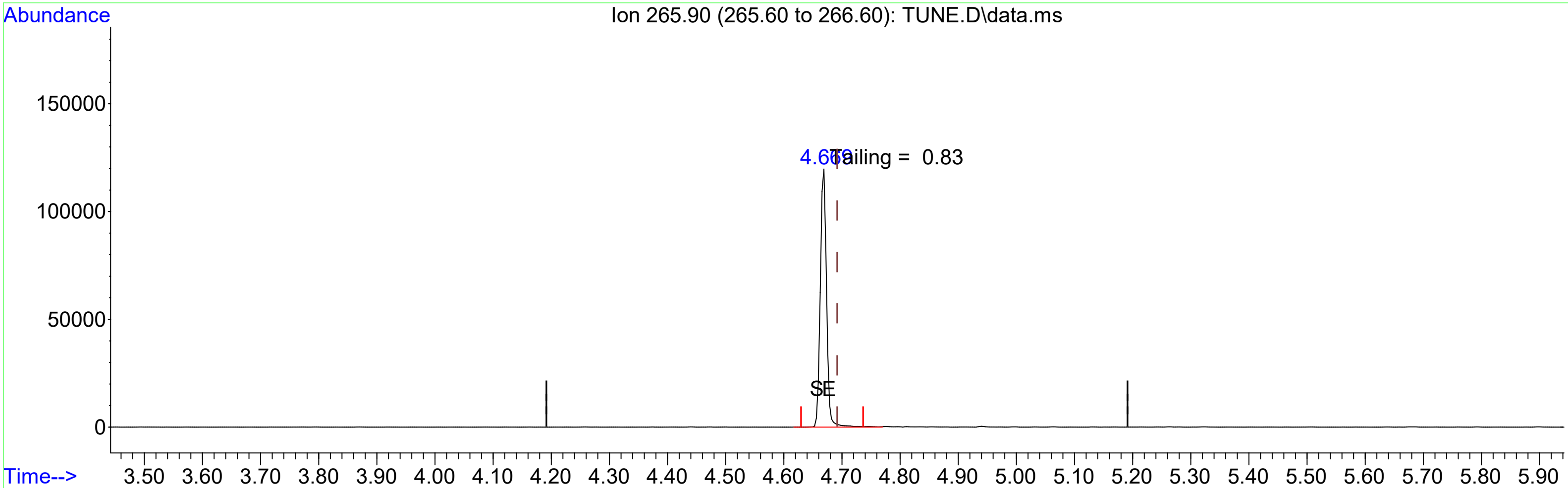
response 194534

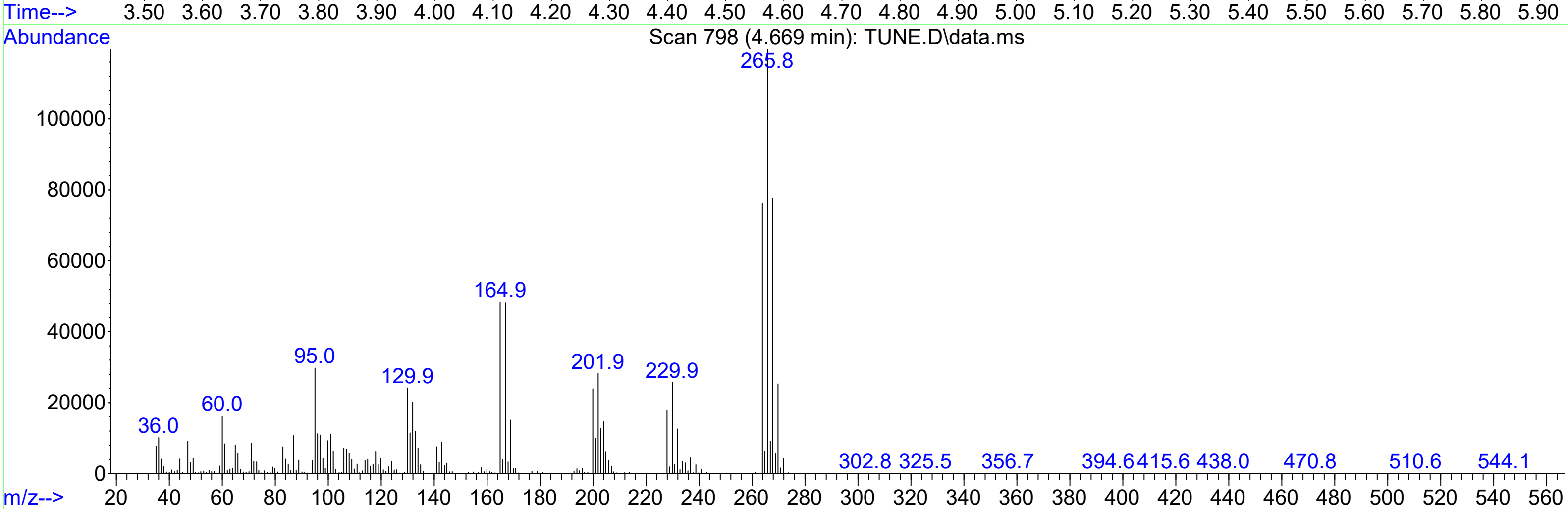
| Ion | Exp% | Act% |
|---|---|---|
| 235.10 | 100.00 | 100.00 |
| 237.00 | 65.60 | 63.13 |
| 165.10 | 53.30 | 51.51 |
| 199.10 | 17.10 | 16.52 |

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV118\241025RVTical\
Data File : TUNE.D
Acq On : 25 Oct 2024 03:53 pm
Operator : SV118:dv
Sample : TUNE
Misc : WG1990947,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Oct 25 16:38:42 2024
Quant Method : I:\8270SIM\SV118\241025RVTical\dftppsv118.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 21 14:32:10 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D




CHROMtools™ [TUNE]

(1) pentachlorophenol (T)

4.669min (-0.023) 42.64

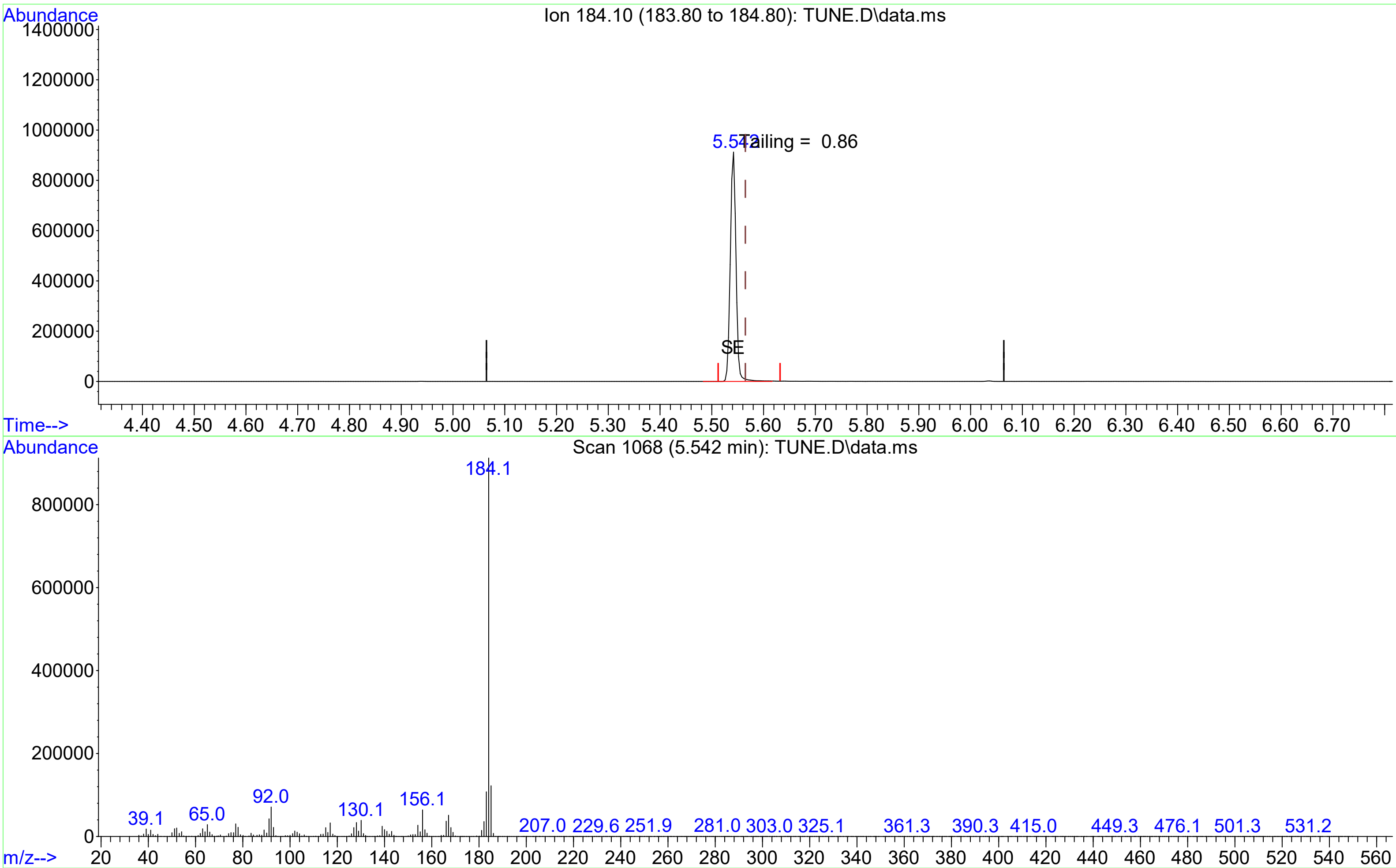
response 89553

| 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\241025RVTical\
Data File : TUNE.D
Acq On : 25 Oct 2024 03:53 pm
Operator : SV118:dv
Sample : TUNE
Misc : WG1990947,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Oct 25 16:38:42 2024
Quant Method : I:\8270SIM\SV118\241025RVTical\dftppsv118.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 21 14:32:10 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D




CHROMtools™ [TUNE]

(3) benzidine (T)

5.542min (-0.023) 68.94

response 701846

| 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\2024\241025RVTical\
Data File : L10.D
Acq On    : 25 Oct 2024  04:43 pm
Operator  : SV118:dv
Sample    : IL10,32,, #10885 5000 ng/ml
Misc      : WG1990947,,ical
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Dec 04 11:31:59 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List     : Default - All compounds listed

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 --------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4      2.262  152    273610   4000.000 ng/ml   -0.02
   Standard Area 1 = 429824               Recovery   =   63.66%
 8) Naphthalene-d8              2.931  136   1052589   4000.000 ng/ml   -0.02
   Standard Area 1 = 1574353               Recovery   =   66.86%
17) Acenaphthene-d10            3.909  164    607344   4000.000 ng/ml   -0.01
   Standard Area 1 = 863987               Recovery   =   70.30%
22) Phenanthrene-d10            4.740  188   1279022   4000.000 ng/ml  #-0.01
   Standard Area 1 = 1755380               Recovery   =   72.86%
31) Chrysene-d12                6.295  240   1289394   4000.000 ng/ml    0.02
   Standard Area 1 = 1692718               Recovery   =   76.17%
36) Perylene-d12                7.502  264   1486855   4000.000 ng/ml    0.02
   Standard Area 1 = 1795203               Recovery   =   82.82%

 System Monitoring Compounds
 2) 2-Fluorophenol              1.662  112    359695   4649.748 ng/ml  -0.02
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =  232.49%#
 3) Phenol-d6                   2.068   99    453927   4775.295 ng/ml  -0.02
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =  238.76%#
 7) Nitrobenzene-d5             2.546   82    309967   5050.754 ng/ml  -0.01
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =  505.08%#
13) 2-Fluorobiphenyl            3.530  172    936039   4624.936 ng/ml  -0.01
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =  462.49%#
21) 2,4,6-Tribromophenol        4.351  330    148240   5296.959 ng/ml  -0.01
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =  264.85%#
30) 4-Terphenyl-d14             5.653  244   1162453M3   4441.981 ng/ml   0.00

   Spiked Amount   1000.000   Range  30 - 130    Recovery   =  444.20%#

 Target Compounds                                                 Qvalue
 4) Bis(2-chloroethyl)ether     2.126   93     396660   4902.845 ng/ml     97
 5) n-nitrosodi-n-propylamine   2.467   70     304708   5068.438 ng/ml     97
 6) Hexachloroethane            2.526  117     163904   4774.624 ng/ml     86
 9) Naphthalene                 2.942  128    1252671   4520.926 ng/ml    100
10) Hexachlorobutadiene         3.017  225     226740   4610.515 ng/ml     99
11) 2-Methylnaphthalene         3.322  142     830608   4680.100 ng/ml     98
12) 1-Methylnaphthalene         3.380  142     779655   4721.990 ng/ml     99
14) 2-Chloronaphthalene         3.595  162     845821   4748.437 ng/ml#    87
15) 2,6-Dinitrotoluene          3.789  165     144391   5989.056 ng/ml#    85
16) Acenaphthylene              3.829  152    1326492   5030.460 ng/ml     99
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L10.D
Acq On : 25 Oct 2024 04:43 pm
Operator : SV118:dv
Sample : IL10,32,, #10885 5000 ng/ml
Misc : WG1990947,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:31:59 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:31 2024
Response via : Initial Calibration

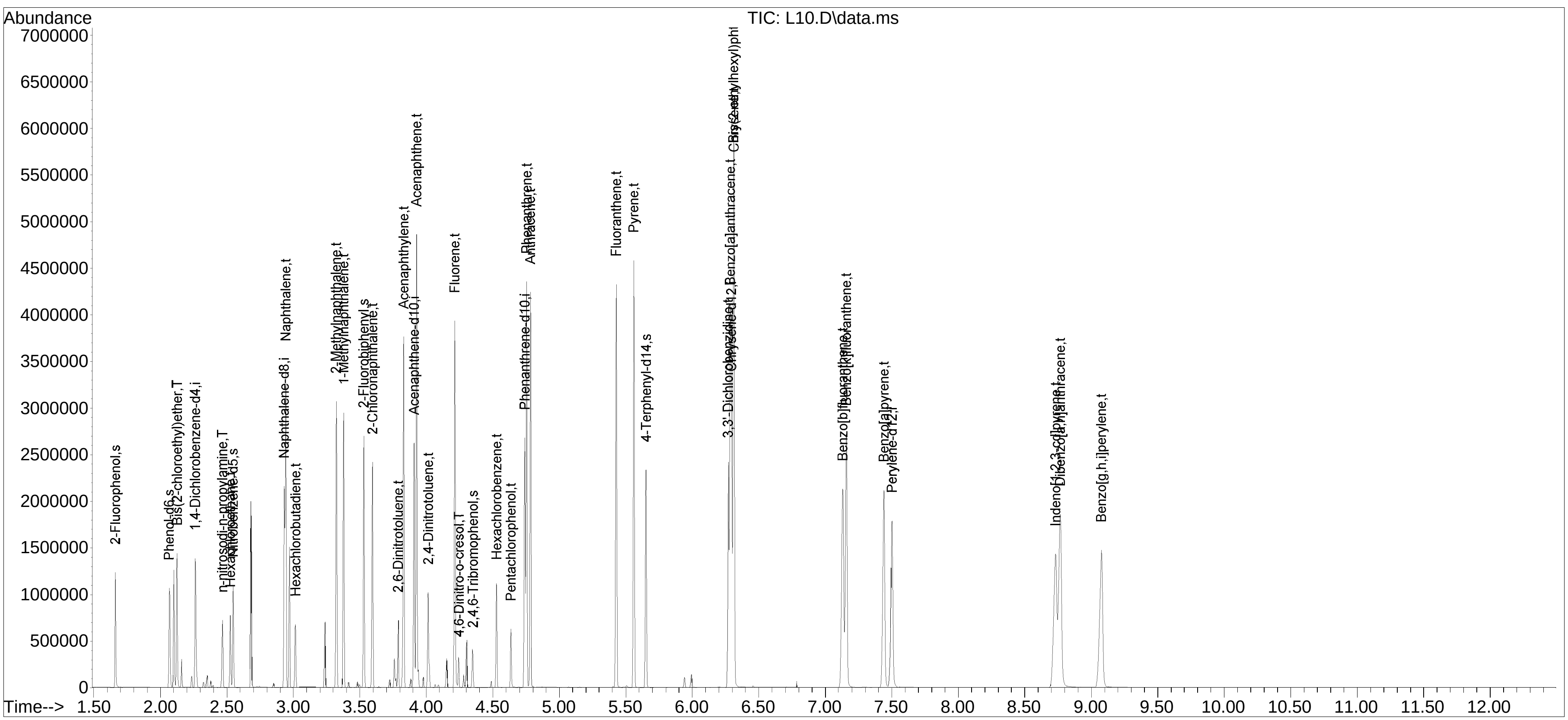
CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 18) Acenaphthene | 3.927 | 153 | 908785 | 4577.210 ng/ml | 100 |
| 19) 2,4-Dinitrotoluene | 4.015 | 165 | 197353 | 5129.873 ng/ml# | 79 |
| 20) Fluorene | 4.212 | 166 | 984580 | 4654.639 ng/ml | 99 |
| 23) 4,6-Dinitro-o-cresol | 4.244 | 198 | 84971 | 5161.084 ng/ml# | 64 |
| 24) Hexachlorobenzene | 4.529 | 284 | 374496 | 4447.260 ng/ml | 97 |
| 25) Pentachlorophenol | 4.635 | 266 | 191786 | 6123.032 ng/ml | 100 |
| 26) Phenanthrene | 4.754 | 178 | 1524263 | 4389.983 ng/ml | 100 |
| 27) Anthracene | 4.781 | 178 | 1581006 | 4639.834 ng/ml | 100 |
| 28) Fluoranthene | 5.429 | 202 | 1795438M3 | 4619.460 ng/ml | |
| 29) Pyrene | 5.560 | 202 | 1907331 | 4619.662 ng/ml | 99 |
| 32) Benzo[a]anthracene | 6.286 | 226 | 558274 | 4421.159 ng/ml# | 93 |
| 33) 3,3'-Dichlorobenzidine | 6.270 | 252 | 773195 | 5744.314 ng/ml | 99 |
| 34) Chrysene | 6.313 | 228 | 1764051 | 4535.310 ng/ml# | 98 |
| 35) Bis(2-ethylhexyl)phtha... | 6.309 | 149 | 1229993 | 5483.741 ng/ml | 95 |
| 37) Benzo[b]fluoranthene | 7.131 | 252 | 1898726 | 4953.184 ng/ml | 99 |
| 38) Benzo[k]fluoranthene | 7.157 | 252 | 1967616 | 4841.143 ng/ml | 99 |
| 39) Benzo[a]pyrene | 7.442 | 252 | 1799597 | 5313.795 ng/ml | 100 |
| 40) Indeno[1,2,3-cd]pyrene | 8.732 | 276 | 1925639 | 6099.008 ng/ml# | 87 |
| 41) Dibenzo[a,h]anthracene | 8.765 | 278 | 1827885M6 | 5687.269 ng/ml | |
| 42) Benzo[g,h,i]perylene | 9.077 | 276 | 1864958 | 5634.775 ng/ml# | 85 |

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

Quantitation Report    (QT Reviewed)

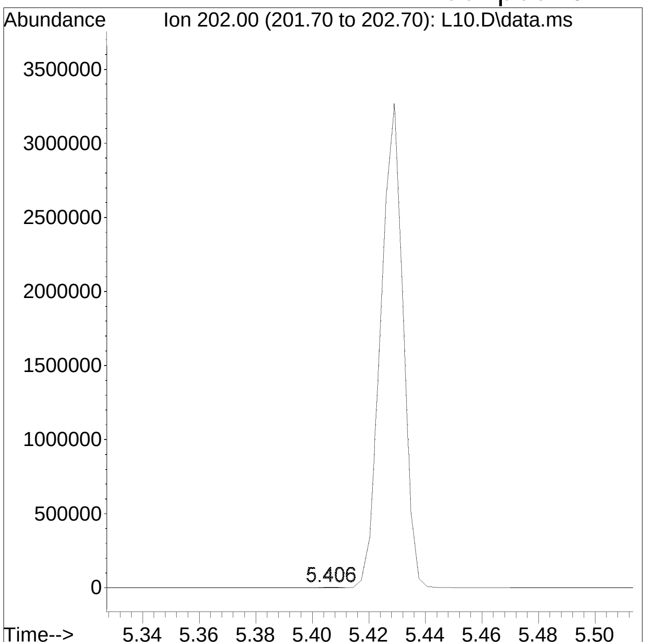
```
Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L10.D
Acq On    : 25 Oct 2024  04:43 pm
Operator  : SV118:dv
Sample    : IL10,32,, #10885 5000 ng/ml
Misc      : WG1990947,,ical
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Dec 04 11:31:59 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:31 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listedical\L8.D•
```

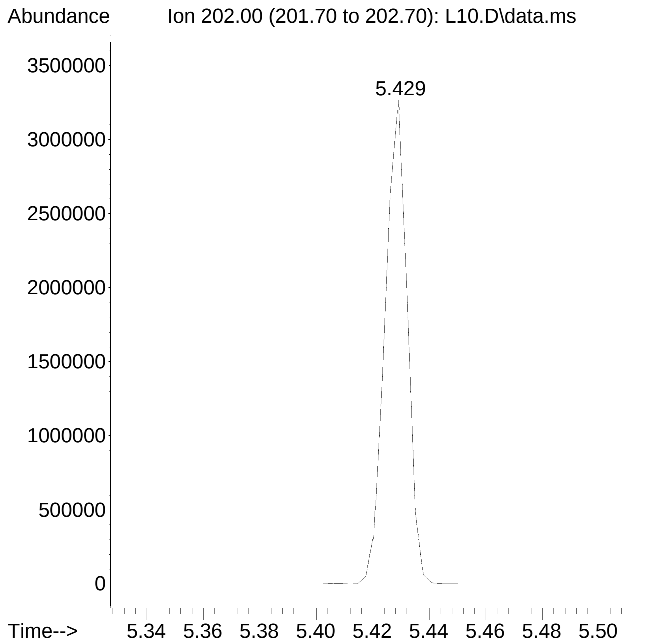


# Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L10.D Operator : SV118:dv
Date Inj'd : 10/25/2024 4:43 pm Instrument : SV118
Sample : IL10,32,, #10885 5000 ng/mQuant Date : 12/4/2024 11:33 am

Compound #28: Fluoranthene



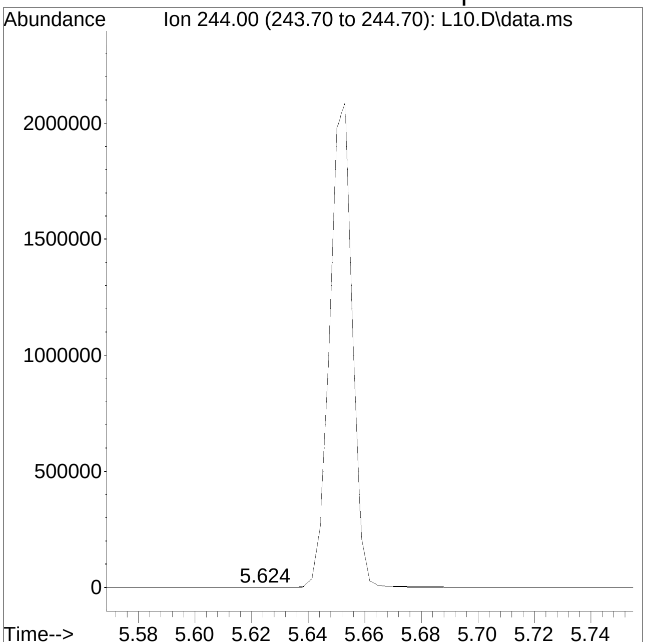

Original Peak Response = 4271 Manual Peak Response = 1795438 M3

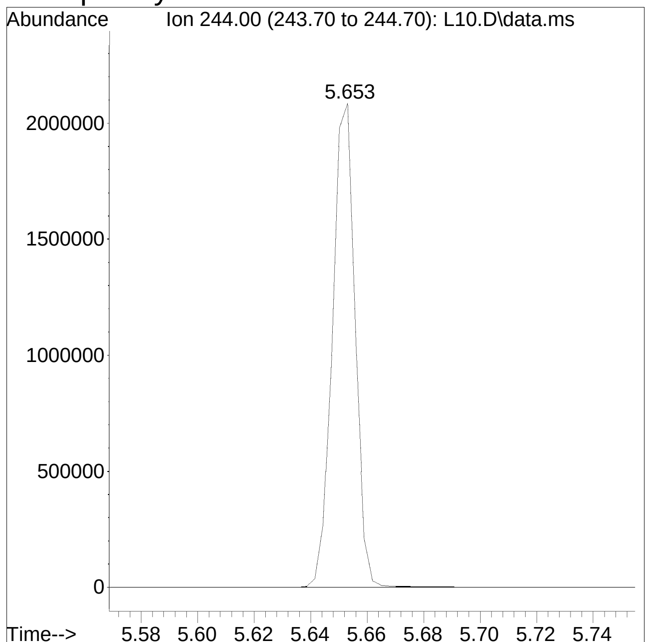
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L10.D Operator : SV118:dv
Date Inj'd : 10/25/2024 4:43 pm Instrument : SV118
Sample : IL10,32,, #10885 5000 ng/mQuant Date : 12/4/2024 11:33 am

Compound #30: 4-Terphenyl-d14



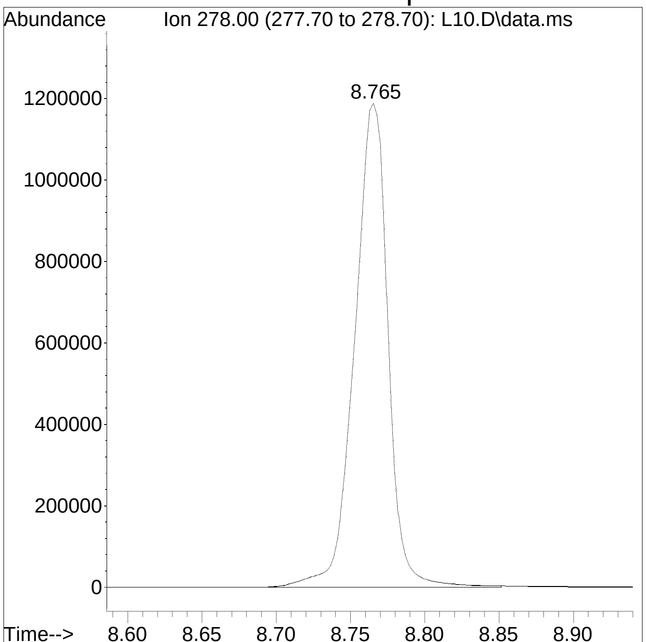



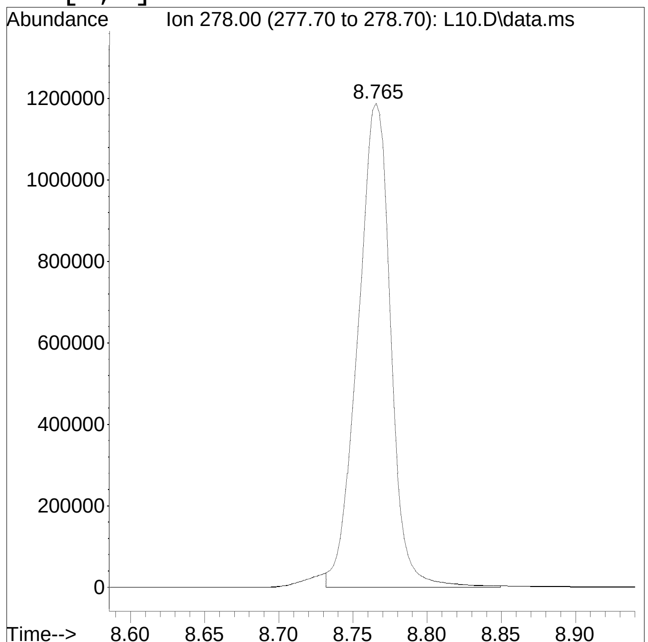

Original Peak Response = 4 Manual Peak Response = 1162453 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L10.D Operator : SV118:dv
Date Inj'd : 10/25/2024 4:43 pm Instrument : SV118
Sample : IL10,32,, #10885 5000 ng/mQuant Date : 12/4/2024 11:33 am

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 1863294 Manual Peak Response = 1827885 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L9.D
Acq On : 25 Oct 2024 05:01 pm
Operator : SV118:dv
Sample : IL9,32,, #10901 2500 ng/ml
Misc : WG1990947,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 04 11:35:35 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:37:09 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 2.276 | 152 | 336532 | 4000.000 ng/ml | 0.00 |
| Standard Area 1 = 429824 | | | Recovery = 78.30% | | |
| 8) Naphthalene-d8 | 2.942 | 136 | 1251542 | 4000.000 ng/ml | 0.00 |
| Standard Area 1 = 1574353 | | | Recovery = 79.50% | | |
| 17) Acenaphthene-d10 | 3.918 | 164 | 686394 | 4000.000 ng/ml | 0.00 |
| Standard Area 1 = 863987 | | | Recovery = 79.44% | | |
| 22) Phenanthrene-d10 | 4.749 | 188 | 1394426 | 4000.000 ng/ml | # 0.00 |
| Standard Area 1 = 1755380 | | | Recovery = 79.44% | | |
| 31) Chrysene-d12 | 6.276 | 240 | 1286099 | 4000.000 ng/ml | 0.00 |
| Standard Area 1 = 1692718 | | | Recovery = 75.98% | | |
| 36) Perylene-d12 | 7.479 | 264 | 1359792 | 4000.000 ng/ml | 0.00 |
| Standard Area 1 = 1795203 | | | Recovery = 75.75% | | |
| **System Monitoring Compounds** | | | | | |
| 2) 2-Fluorophenol | 1.673 | 112 | 228303 | 2399.453 ng/ml | -0.01 |
| Spiked Amount 2000.000 | Range 15 - 110 | | Recovery = 119.97%# | | |
| 3) Phenol-d6 | 2.078 | 99 | 284978 | 2437.424 ng/ml | 0.00 |
| Spiked Amount 2000.000 | Range 15 - 110 | | Recovery = 121.87%# | | |
| 7) Nitrobenzene-d5 | 2.555 | 82 | 196948 | 2609.143 ng/ml | 0.00 |
| Spiked Amount 1000.000 | Range 30 - 130 | | Recovery = 260.91%# | | |
| 13) 2-Fluorobiphenyl | 3.540 | 172 | 575368 | 2390.952 ng/ml | 0.00 |
| Spiked Amount 1000.000 | Range 30 - 130 | | Recovery = 239.10%# | | |
| 21) 2,4,6-Tribromophenol | 4.358 | 330 | 85764 | 2711.612 ng/ml | 0.00 |
| Spiked Amount 2000.000 | Range 15 - 110 | | Recovery = 135.58%# | | |
| 30) 4-Terphenyl-d14 | 5.647 | 244 | 658149 | 2306.790 ng/ml | 0.00 |
| Spiked Amount 1000.000 | Range 30 - 130 | | Recovery = 230.68%# | | |
| **Target Compounds** | | | | | Qvalue |
| 4) Bis(2-chloroethyl)ether | 2.136 | 93 | 250240 | 2513.542 ng/ml | 97 |
| 5) n-nitrosodi-n-propylamine | 2.476 | 70 | 186212 | 2518.277 ng/ml | 97 |
| 6) Hexachloroethane | 2.534 | 117 | 103636 | 2454.516 ng/ml | 86 |
| 9) Naphthalene | 2.950 | 128 | 777443 | 2359.784 ng/ml | 100 |
| 10) Hexachlorobutadiene | 3.025 | 225 | 142833 | 2442.661 ng/ml | 99 |
| 11) 2-Methylnaphthalene | 3.332 | 142 | 512459 | 2428.463 ng/ml | 98 |
| 12) 1-Methylnaphthalene | 3.387 | 142 | 472856 | 2408.601 ng/ml | 99 |
| 14) 2-Chloronaphthalene | 3.605 | 162 | 514081M3 | 2427.265 ng/ml | |
| 15) 2,6-Dinitrotoluene | 3.797 | 165 | 81428 | 2840.570 ng/ml# | 85 |
| 16) Acenaphthylene | 3.838 | 152 | 790915 | 2522.588 ng/ml | 99 |
| 18) Acenaphthene | 3.936 | 153 | 537959 | 2397.453 ng/ml | 99 |

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L9.D
Acq On : 25 Oct 2024 05:01 pm
Operator : SV118:dv
Sample : IL9,32,, #10901 2500 ng/ml
Misc : WG1990947,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 04 11:35:35 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:37:09 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 19) 2,4-Dinitrotoluene | 4.023 | 165 | 108035 | 2497.674 ng/ml# | 86 |
| 20) Fluorene | 4.224 | 166 | 581375 | 2431.938 ng/ml | 98 |
| 23) 4,6-Dinitro-o-cresol | 4.251 | 198 | 44195 | 2474.930 ng/ml# | 62 |
| 24) Hexachlorobenzene | 4.536 | 284 | 220214 | 2398.683 ng/ml | 98 |
| 25) Pentachlorophenol | 4.645 | 266 | 105374M1 | 3085.785 ng/ml | |
| 26) Phenanthrene | 4.763 | 178 | 889206 | 2349.026 ng/ml | 100 |
| 27) Anthracene | 4.791 | 178 | 908698 | 2446.082 ng/ml | 100 |
| 28) Fluoranthene | 5.431 | 202 | 999929 | 2359.786 ng/ml# | 90 |
| 29) Pyrene | 5.559 | 202 | 1068591 | 2373.986 ng/ml | 99 |
| 32) Benzo[a]anthracene | 6.268 | 226 | 290300 | 2304.873 ng/ml# | 95 |
| 33) 3,3'-Dichlorobenzidine | 6.251 | 252 | 389909 | 2904.181 ng/ml | 99 |
| 34) Chrysene | 6.292 | 228 | 941051 | 2425.606 ng/ml# | 99 |
| 35) Bis(2-ethylhexyl)phtha... | 6.287 | 149 | 630760 | 2819.354 ng/ml | 95 |
| 37) Benzo[b]fluoranthene | 7.106 | 252 | 929826 | 2652.284 ng/ml | 99 |
| 38) Benzo[k]fluoranthene | 7.132 | 252 | 961896 | 2587.807 ng/ml | 100 |
| 39) Benzo[a]pyrene | 7.415 | 252 | 849519 | 2742.829 ng/ml | 100 |
| 40) Indeno[1,2,3-cd]pyrene | 8.707 | 276 | 833331 | 2886.011 ng/ml# | 86 |
| 41) Dibenzo[a,h]anthracene | 8.742 | 278 | 817960M6 | 2782.807 ng/ml | |
| 42) Benzo[g,h,i]perylene | 9.052 | 276 | 814764 | 2691.755 ng/ml# | 86 |

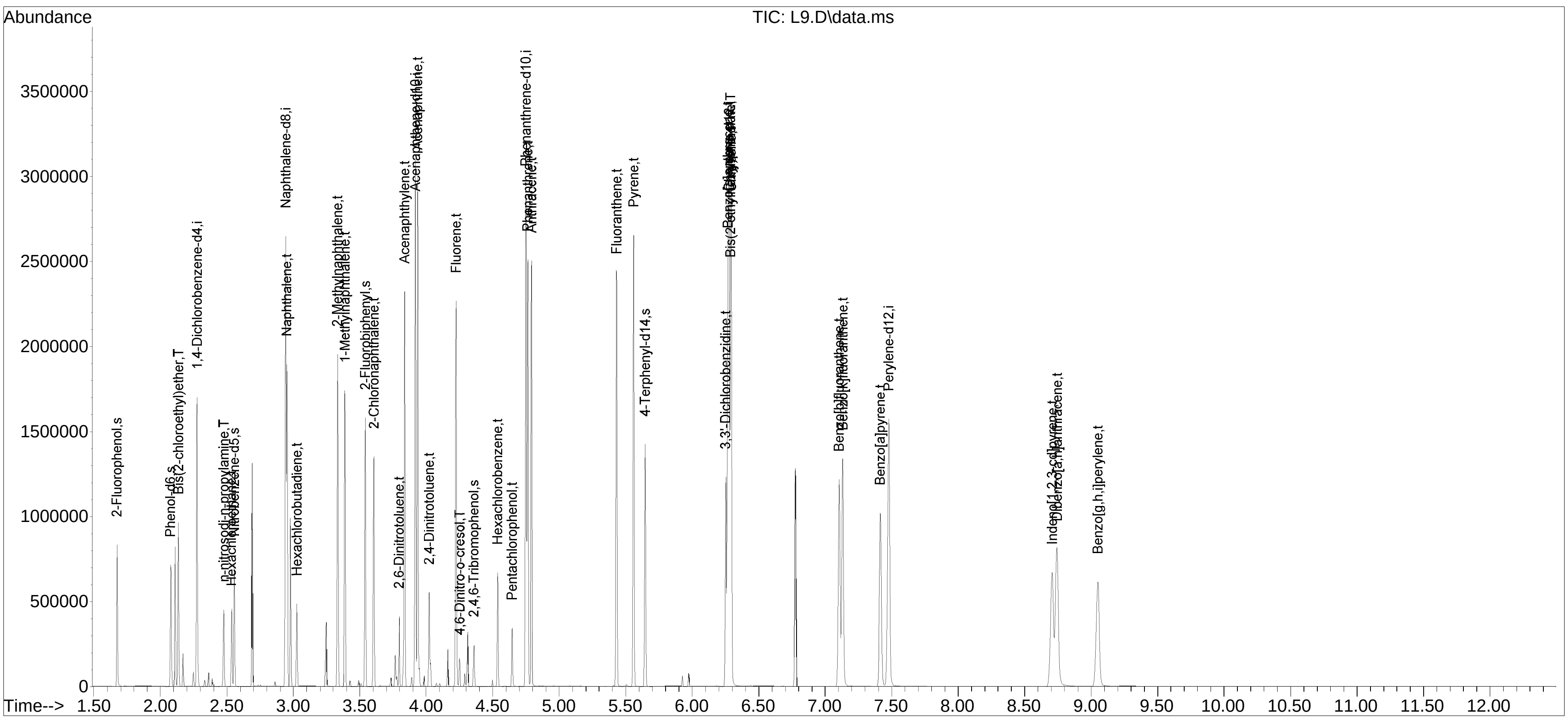
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L9.D
Acq On : 25 Oct 2024 05:01 pm
Operator : SV118:dv
Sample : IL9,32,, #10901 2500 ng/ml
Misc : WG1990947,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 04 11:35:35 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:37:09 2024
Response via : Initial Calibration

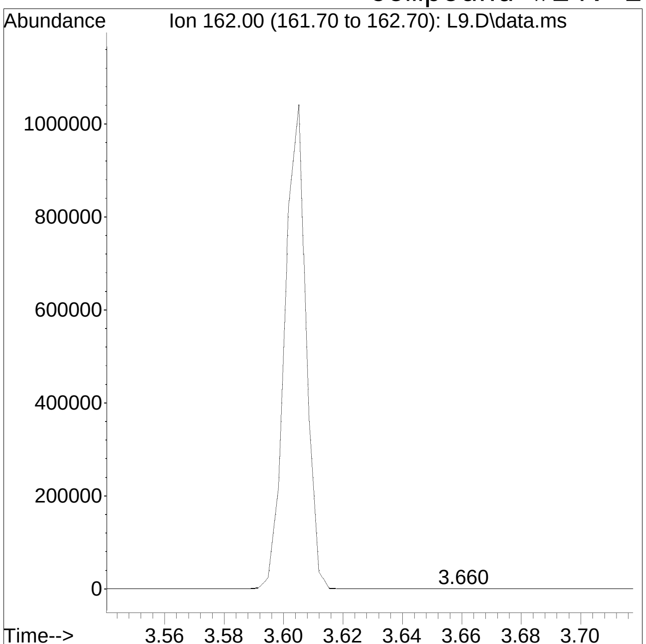
Sub List : Default - All compounds listedical\L8.D•

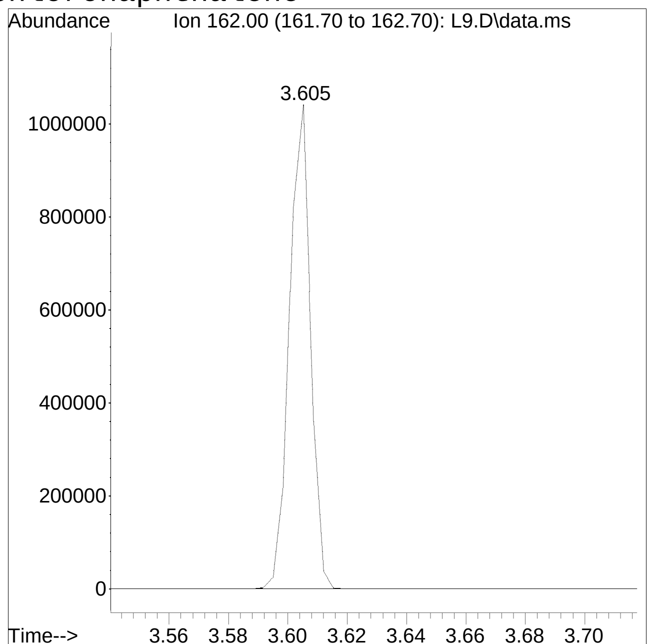


Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L9.D                        Operator    : SV118:dv
Date Inj'd  : 10/25/2024  5:01 pm         Instrument  : SV118
Sample      : IL9,32,, #10901 2500 ng/mlQuant Date  : 12/4/2024 11:37 am
```

Compound #14: 2-Chloronaphthalene



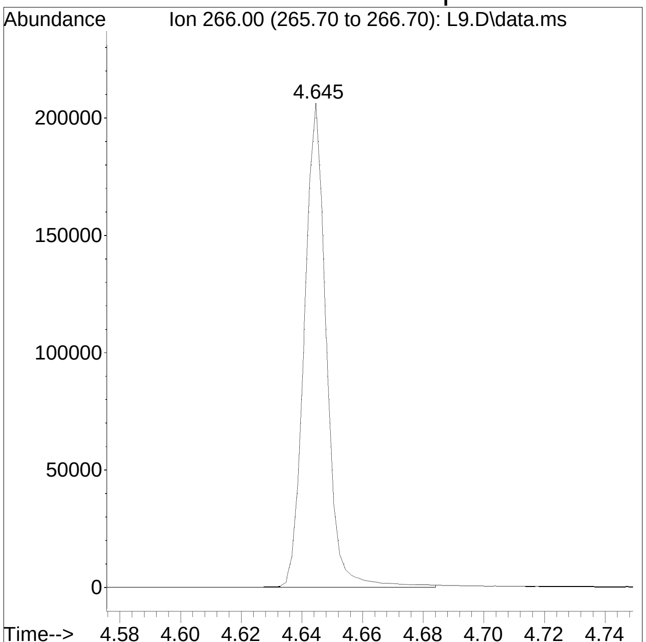

Original Peak Response = 63 Manual Peak Response = 514081 M3

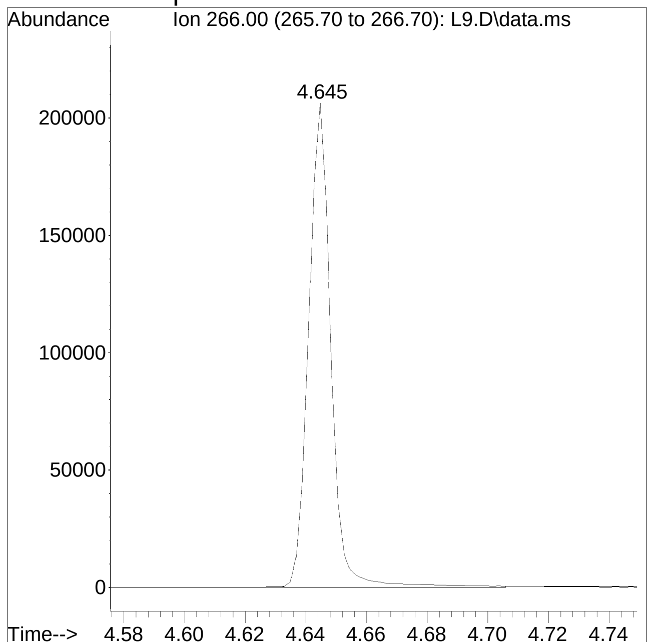
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L9.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:01 pm Instrument : SV118
Sample : IL9,32,, #10901 2500 ng/mlQuant Date : 12/4/2024 11:37 am

Compound #25: Pentachlorophenol



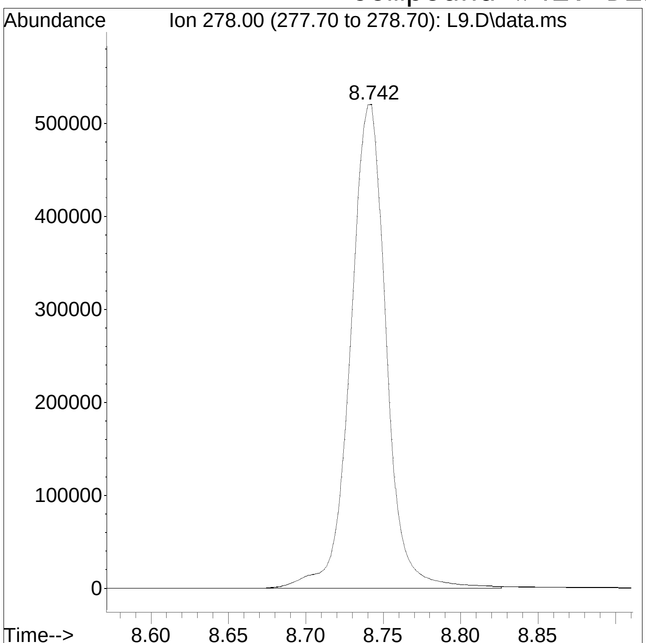



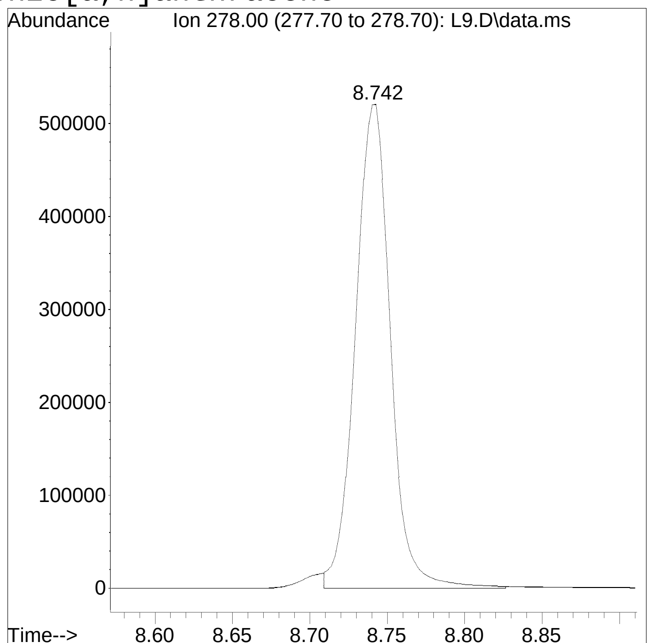

Original Peak Response = 104159 Manual Peak Response = 105374 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L9.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:01 pm Instrument : SV118
Sample : IL9,32,, #10901 2500 ng/mlQuant Date : 12/4/2024 11:37 am

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 833716 Manual Peak Response = 817960 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L8.D
Acq On    : 25 Oct 2024  05:19 pm
Operator  : SV118:dv
Sample    : IL8,32,, #10888 1000 ng/ml
Misc      : WG1990947,,ical
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Dec 04 11:33:01 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:26 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List     : Default - All compounds listed

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4      2.279  152    429824   4000.000 ng/ml   -0.05
   Standard Area 1 = 429824                Recovery   =  100.00%
 8) Naphthalene-d8              2.946  136   1574353   4000.000 ng/ml   -0.05
   Standard Area 1 = 1574353                Recovery   =  100.00%
17) Acenaphthene-d10            3.922  164    863987   4000.000 ng/ml   -0.05
   Standard Area 1 = 863987                Recovery   =  100.00%
22) Phenanthrene-d10            4.753  188   1755380M3  4000.000 ng/ml   -0.06
   Standard Area 1 = 1755380                Recovery   =  100.00%
31) Chrysene-d12                6.276  240   1692718M2  4000.000 ng/ml   -0.15
   Standard Area 1 = 1692718                Recovery   =  100.00%
36) Perylene-d12                7.483  264   1795203M2  4000.000 ng/ml   -0.24
   Standard Area 1 = 1795203                Recovery   =  100.00%

 System Monitoring Compounds
 2) 2-Fluorophenol              1.683  112    119014   979.342 ng/ml  -0.05
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   48.97%
 3) Phenol-d6                   2.084   99    148408   993.832 ng/ml  -0.05
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   49.69%
 7) Nitrobenzene-d5             2.560   82    101098   1048.636 ng/ml  -0.05
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =  104.86%
13) 2-Fluorobiphenyl            3.544  172    294957   974.377 ng/ml  -0.05
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   97.44%
21) 2,4,6-Tribromophenol        4.362  330     42117   1057.904 ng/ml  -0.06
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   52.90%
30) 4-Terphenyl-d14             5.649  244    346598   965.015 ng/ml  -0.10
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   96.50%

 Target Compounds                                                  Qvalue
 4) Bis(2-chloroethyl)ether     2.143   93     129762   1019.044 ng/ml     96
 5) n-nitrosodi-n-propylamine   2.479   70      94011    995.429 ng/ml     97
 6) Hexachloroethane            2.540  117      53876    999.048 ng/ml     85
 9) Naphthalene                 2.954  128     402557    971.347 ng/ml    100
10) Hexachlorobutadiene         3.029  225      72281M3  982.657 ng/ml
11) 2-Methylnaphthalene         3.336  142     263115    991.200 ng/ml     98
12) 1-Methylnaphthalene         3.394  142     243234    984.926 ng/ml     99
14) 2-Chloronaphthalene         3.608  162     264846    994.082 ng/ml     88
15) 2,6-Dinitrotoluene          3.799  165      38000   1053.801 ng/ml#    84
16) Acenaphthylene              3.840  152     403084   1022.010 ng/ml     99
18) Acenaphthene                3.938  153     274294    971.144 ng/ml     97
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L8.D
Acq On : 25 Oct 2024 05:19 pm
Operator : SV118:dv
Sample : IL8,32,, #10888 1000 ng/ml
Misc : WG1990947,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 04 11:33:01 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:26 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 19) 2,4-Dinitrotoluene | 4.024 | 165 | 49929 | 932.864 ng/ml# | 85 |
| 20) Fluorene | 4.224 | 166 | 299762 | 996.183 ng/ml | 99 |
| 23) 4,6-Dinitro-o-cresol | 4.251 | 198 | 20506 | 927.565 ng/ml# | 78 |
| 24) Hexachlorobenzene | 4.540 | 284 | 113536 | 982.394 ng/ml | 98 |
| 25) Pentachlorophenol | 4.646 | 266 | 48114M3 | 1119.252 ng/ml | |
| 26) Phenanthrene | 4.765 | 178 | 458722M3 | 962.630 ng/ml | |
| 27) Anthracene | 4.792 | 178 | 467014 | 998.632 ng/ml | 99 |
| 28) Fluoranthene | 5.431 | 202 | 526686 | 987.369 ng/ml# | 91 |
| 29) Pyrene | 5.559 | 202 | 558873 | 986.289 ng/ml | 99 |
| 32) Benzo[a]anthracene | 6.267 | 226 | 151578M4 | 914.378 ng/ml | |
| 33) 3,3'-Dichlorobenzidine | 6.251 | 252 | 199371 | 1128.268 ng/ml | 99 |
| 34) Chrysene | 6.292 | 228 | 504754M4 | 988.500 ng/ml | |
| 35) Bis(2-ethylhexyl)phtha... | 6.287 | 149 | 312893M2 | 1062.603 ng/ml | |
| 37) Benzo[b]fluoranthene | 7.106 | 252 | 478381M3 | 1033.597 ng/ml | |
| 38) Benzo[k]fluoranthene | 7.132 | 252 | 515928M1 | 1051.361 ng/ml | |
| 39) Benzo[a]pyrene | 7.417 | 252 | 438734M2 | 1072.966 ng/ml | |
| 40) Indeno[1,2,3-cd]pyrene | 8.704 | 276 | 431085M3 | 1130.843 ng/ml | |
| 41) Dibenzo[a,h]anthracene | 8.740 | 278 | 423760M2 | 1092.018 ng/ml | |
| 42) Benzo[g,h,i]perylene | 9.051 | 276 | 422562M2 | 1057.433 ng/ml | |

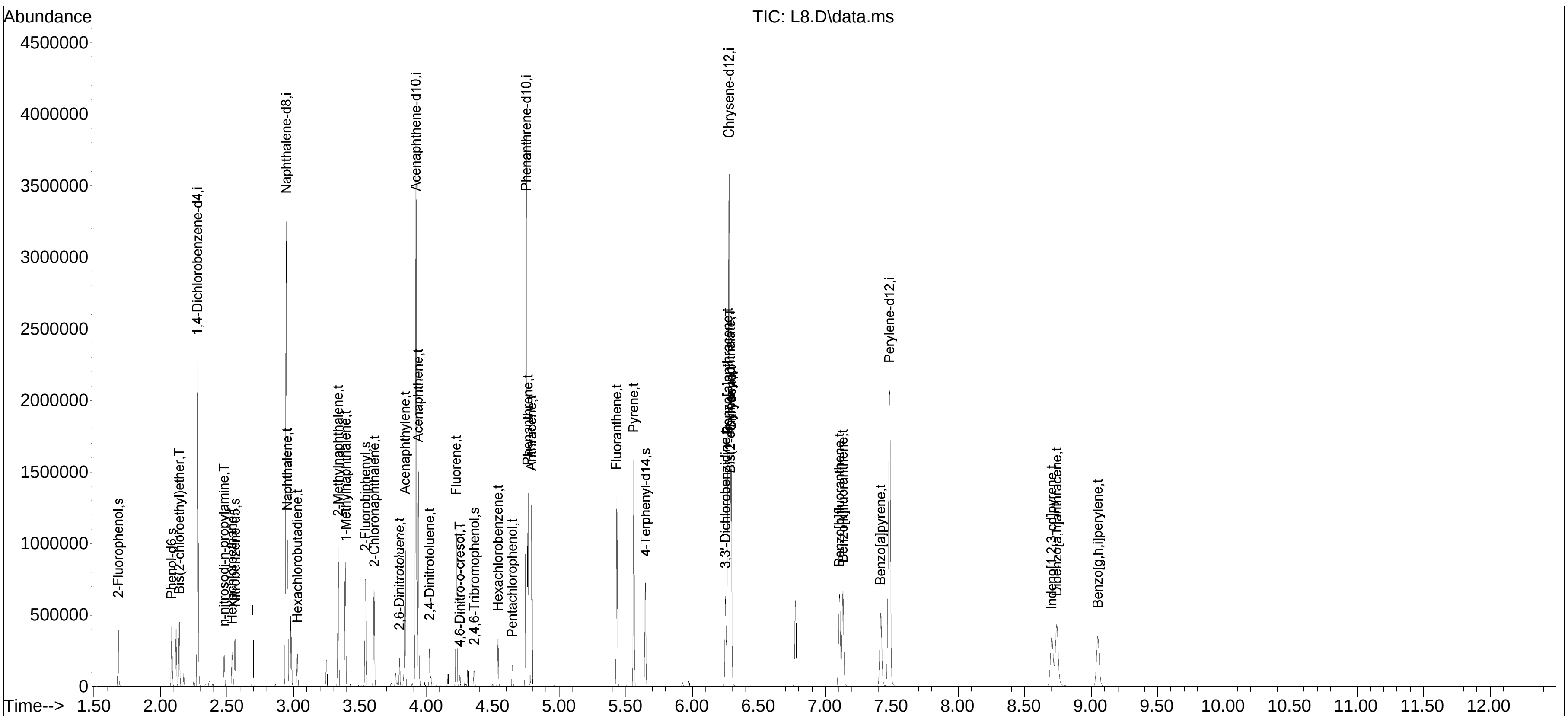
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L8.D
Acq On : 25 Oct 2024 05:19 pm
Operator : SV118:dv
Sample : IL8,32,, #10888 1000 ng/ml
Misc : WG1990947,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 04 11:33:01 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:26 2024
Response via : Initial Calibration

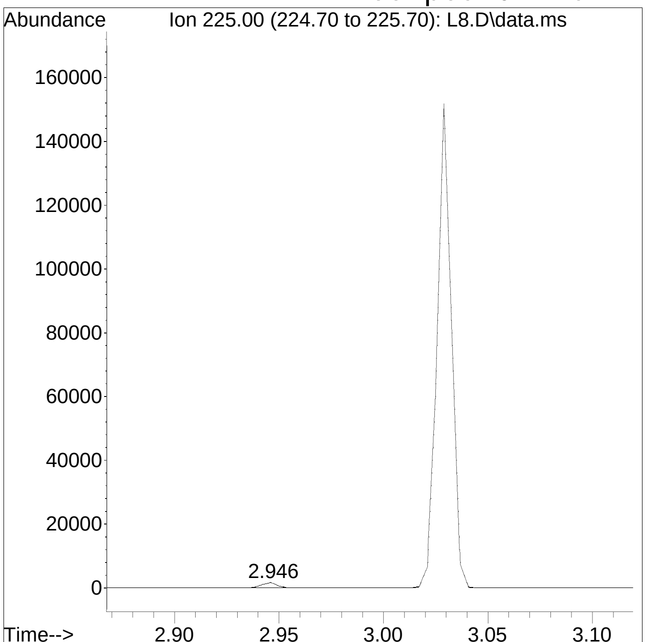
Sub List : Default - All compounds listedical\L8.D•

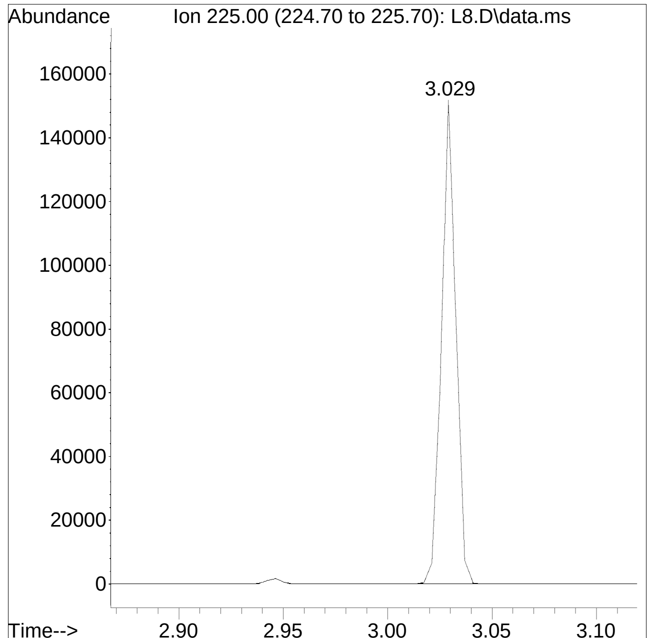


Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L8.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:19 pm Instrument : SV118
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/4/2024 11:34 am

Compound #10: Hexachlorobutadiene



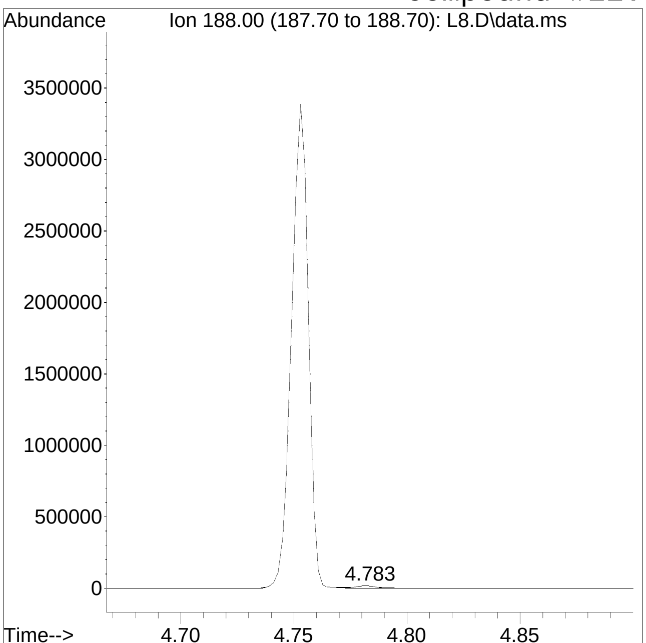



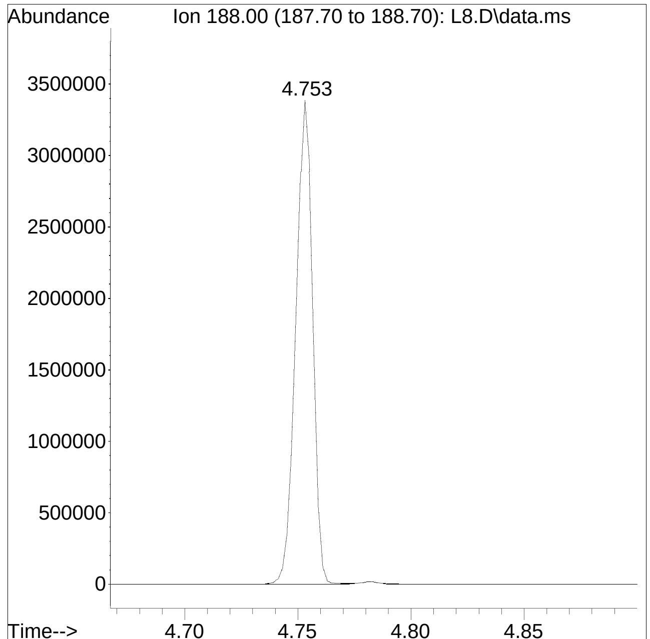

Original Peak Response = 780 Manual Peak Response = 72281 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L8.D                        Operator    : SV118:dv
Date Inj'd  : 10/25/2024  5:19 pm         Instrument  : SV118
Sample      : IL8,32,, #10888 1000 ng/mlQuant Date  : 12/4/2024 11:34 am
```

Compound #22: Phenanthrene-d10



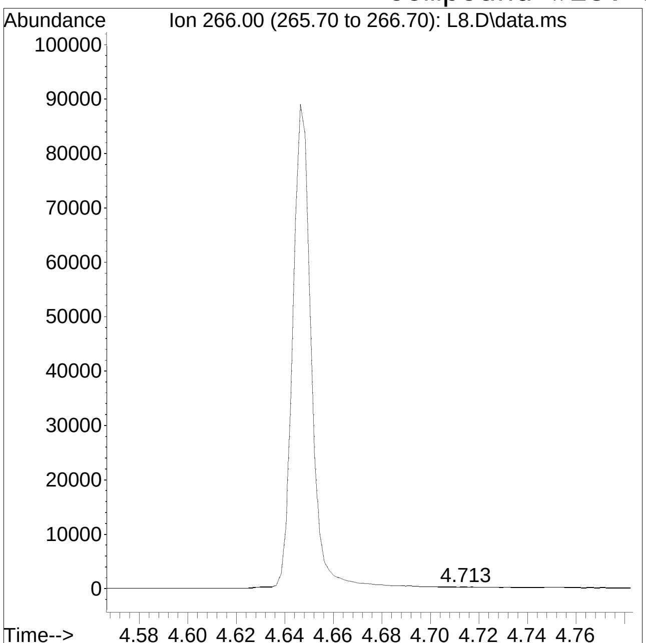

Original Peak Response = 12832        Manual Peak Response = 1755380 M3

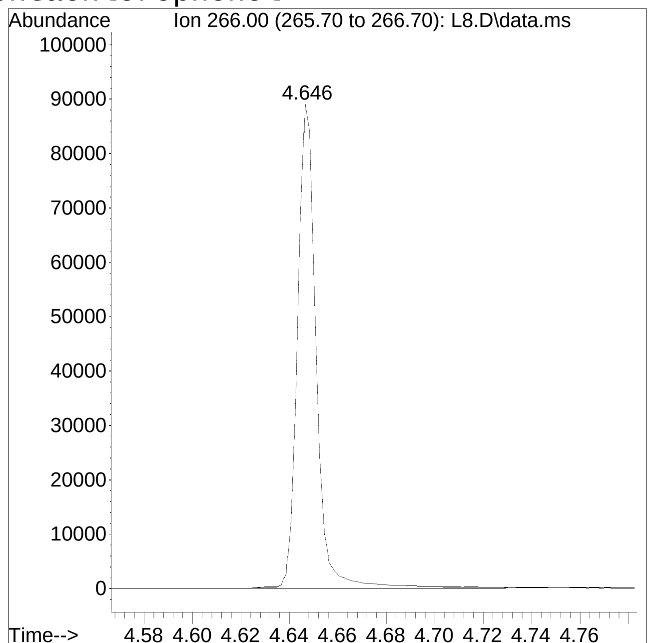
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L8.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:19 pm Instrument : SV118
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/4/2024 11:34 am

Compound #25: Pentachlorophenol



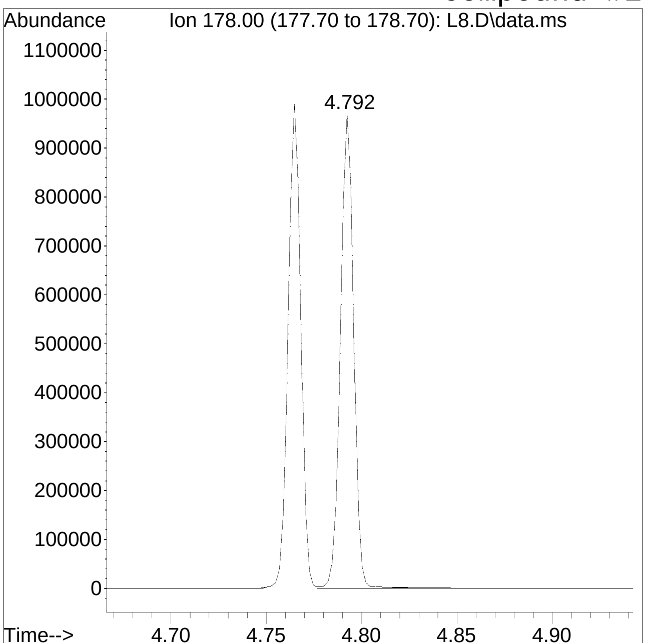

Original Peak Response = 7 Manual Peak Response = 48114 M3

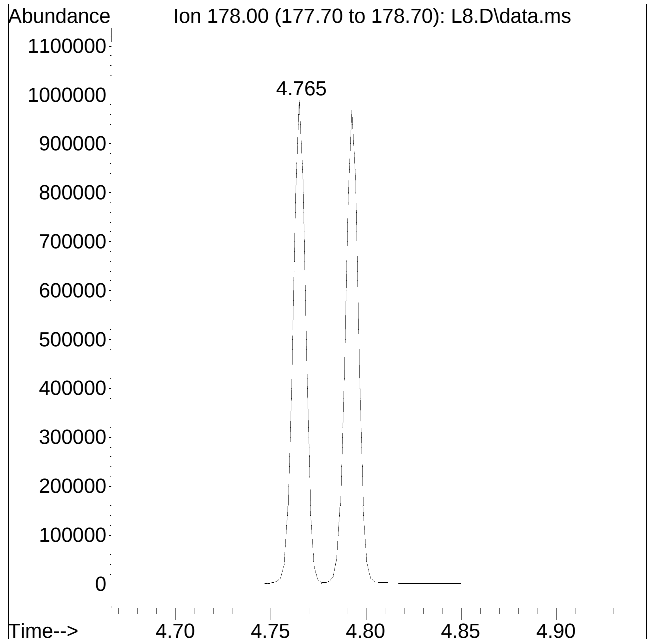
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L8.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:19 pm Instrument : SV118
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/4/2024 11:34 am

Compound #26: Phenanthrene



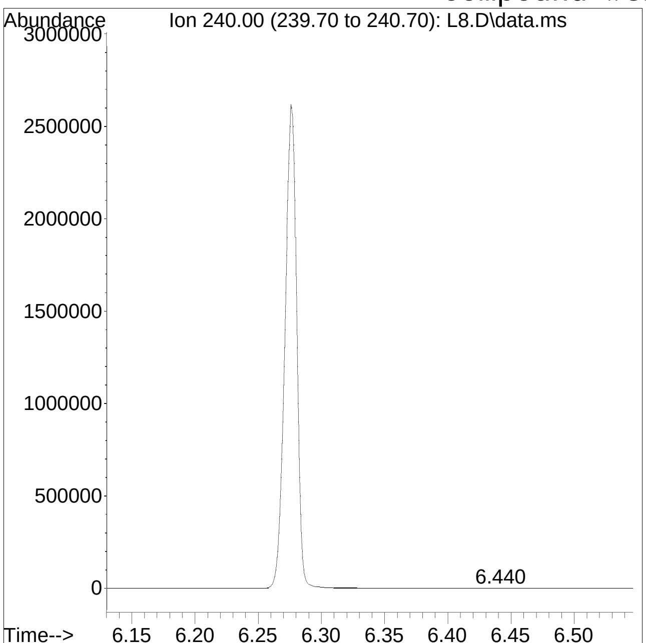



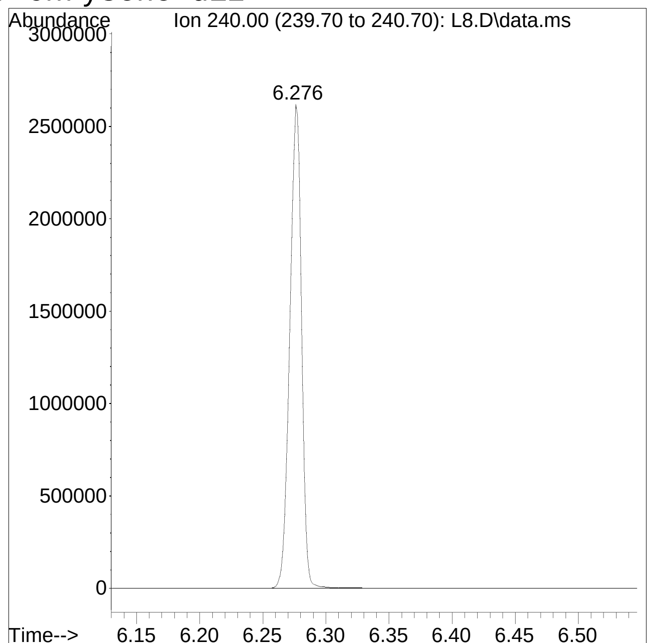

Original Peak Response = 466896 Manual Peak Response = 458722 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L8.D                         Operator    : SV118:dv
Date Inj'd  : 10/25/2024  5:19 pm          Instrument  : SV118
Sample      : IL8,32,, #10888 1000 ng/mlQuant Date  : 12/4/2024 11:34 am
```

Compound #31: Chrysene-d12



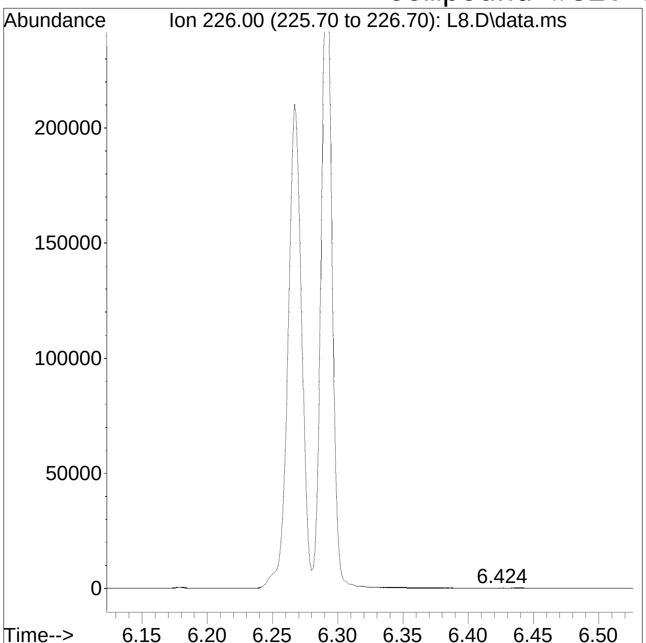

Original Peak Response = 16          Manual Peak Response = 1692718 M2

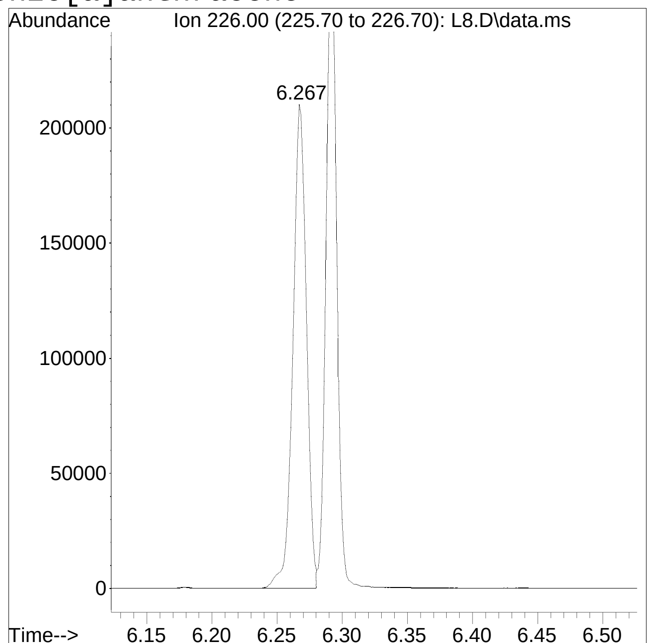
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path    : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File    : L8.D                          Operator    : SV118:dv
Date Inj'd   : 10/25/2024  5:19 pm           Instrument  : SV118
Sample       : IL8,32,, #10888 1000 ng/mlQuant Date  : 12/4/2024 11:34 am
```

Compound #32: Benzo[a]anthracene



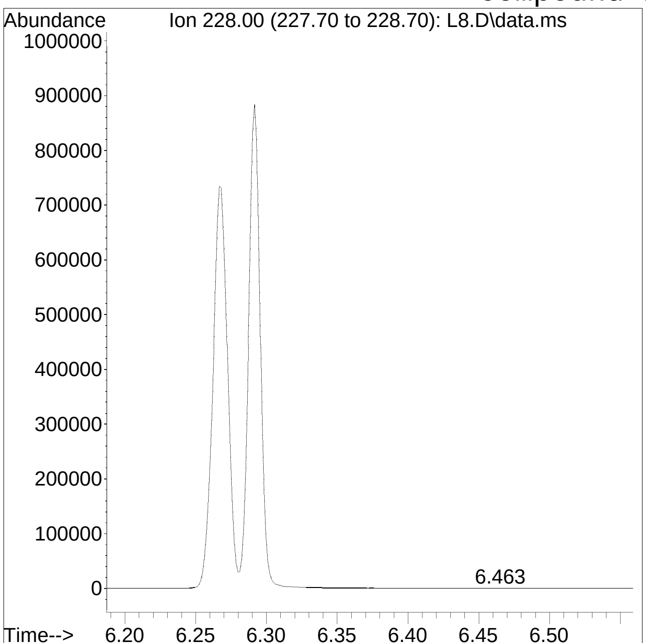

Original Peak Response = 9    Manual Peak Response = 151578 M4

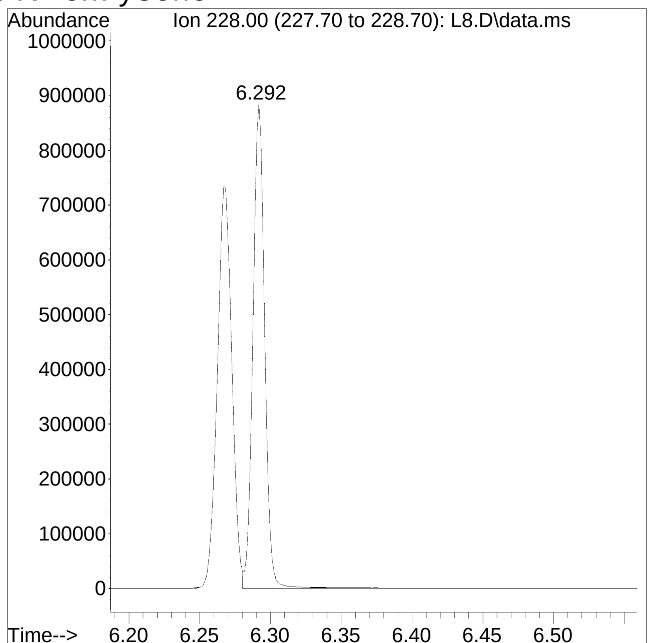
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L8.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:19 pm Instrument : SV118
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/4/2024 11:34 am

Compound #34: Chrysene



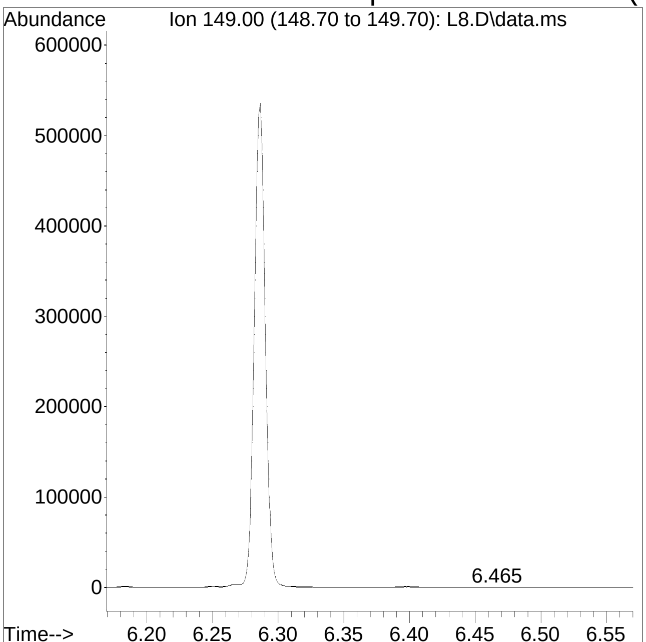

Original Peak Response = 12 Manual Peak Response = 504754 M4

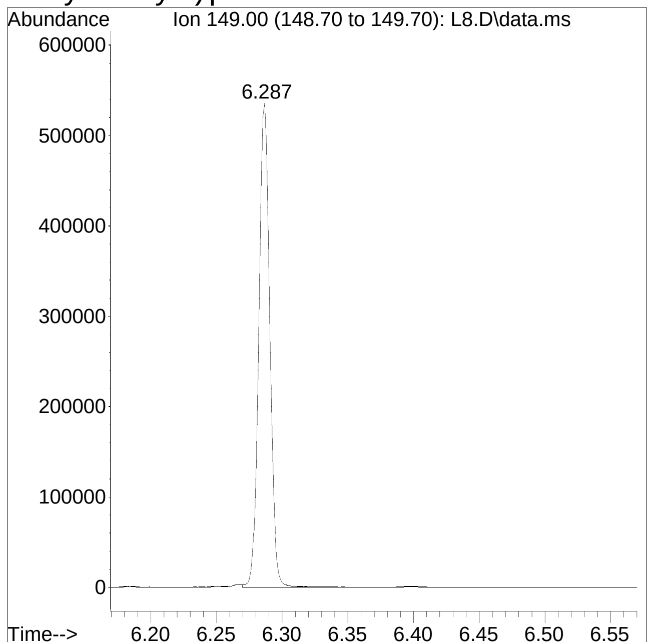
M4 = Poor automated baseline construction.

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L8.D                      Operator    : SV118:dv
Date Inj'd  : 10/25/2024  5:19 pm       Instrument  : SV118
Sample      : IL8,32,, #10888 1000 ng/mlQuant Date  : 12/4/2024 11:34 am
```

Compound #35: Bis(2-ethylhexyl)phthalate



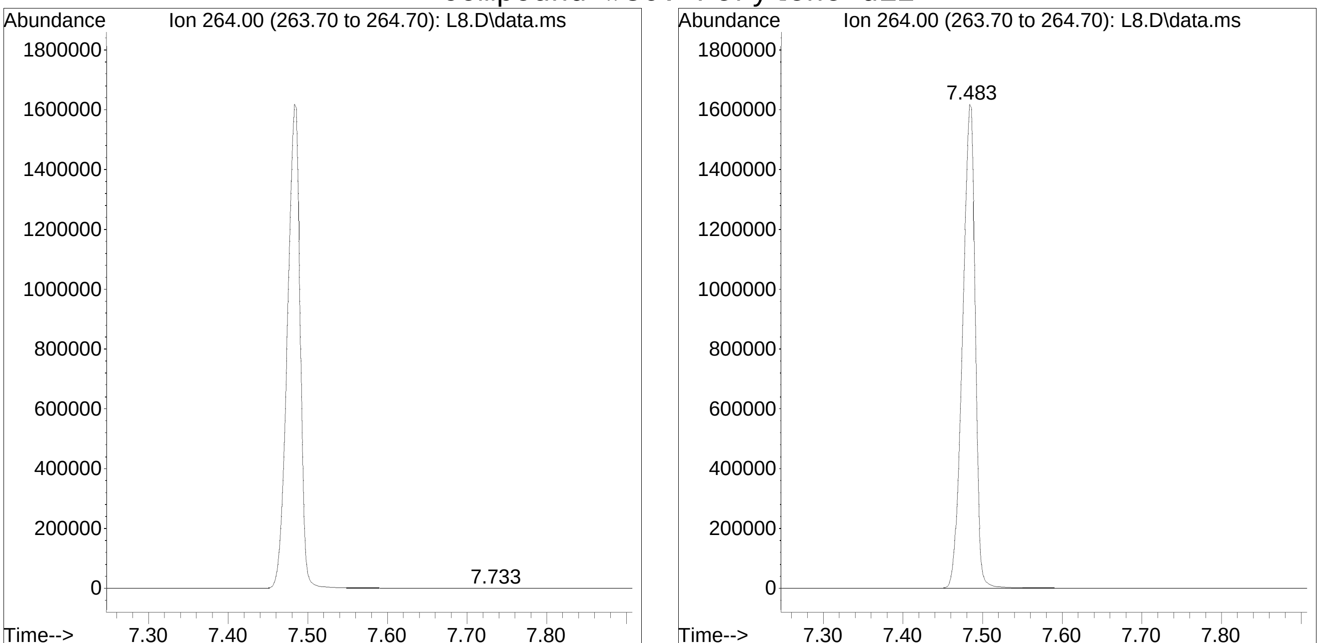

Original Peak Response = 21          Manual Peak Response = 312893 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path    : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File    : L8.D                       Operator    : SV118:dv
Date Inj'd   : 10/25/2024  5:19 pm        Instrument  : SV118
Sample       : IL8,32,, #10888 1000 ng/mlQuant Date  : 12/4/2024 11:34 am
```

Compound #36: Perylene-d12



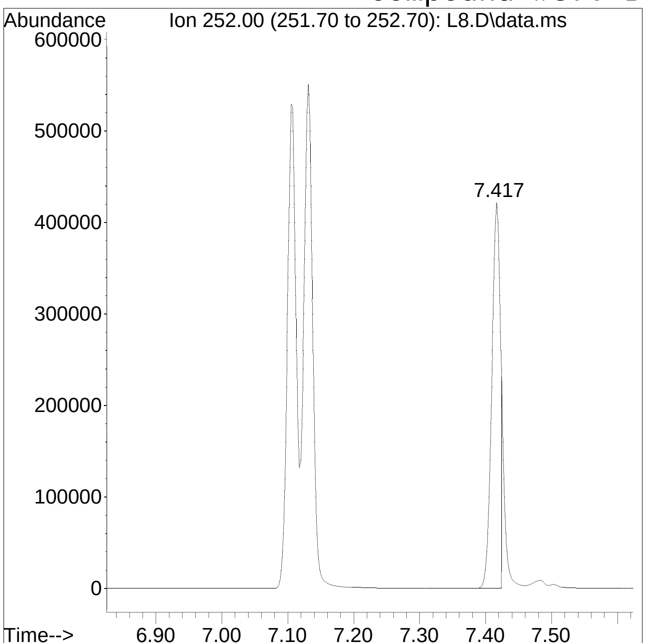

Original Peak Response = 14 Manual Peak Response = 1795203 M2

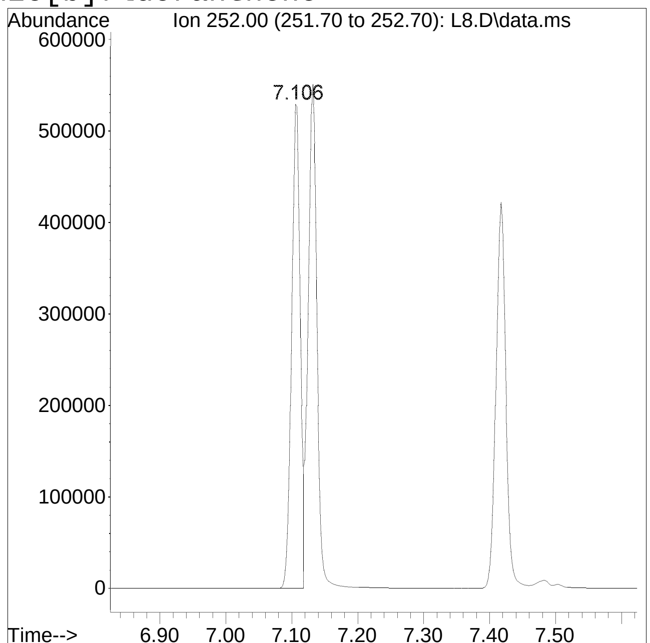
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L8.D                       Operator    : SV118:dv
Date Inj'd  : 10/25/2024  5:19 pm        Instrument  : SV118
Sample      : IL8,32,, #10888 1000 ng/mlQuant Date  : 12/4/2024 11:34 am
```

Compound #37: Benzo[b]fluoranthene



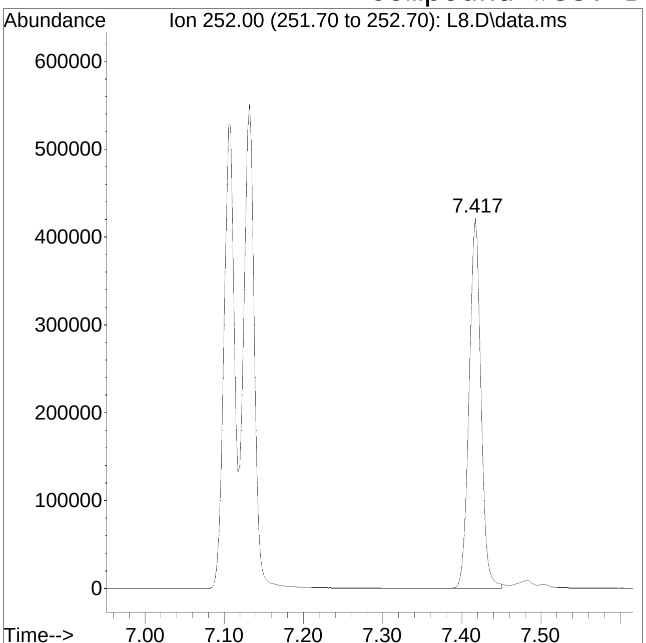

Original Peak Response = 381814     Manual Peak Response = 478381 M3

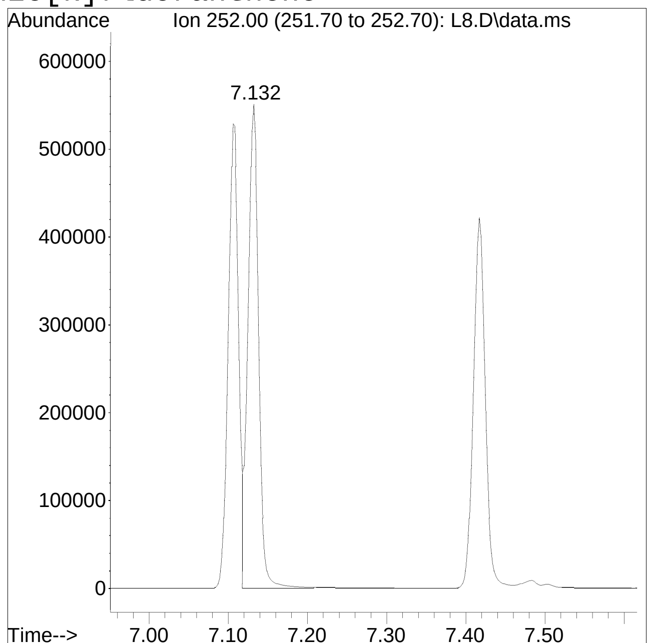
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L8.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:19 pm Instrument : SV118
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/4/2024 11:34 am

Compound #38: Benzo[k]fluoranthene



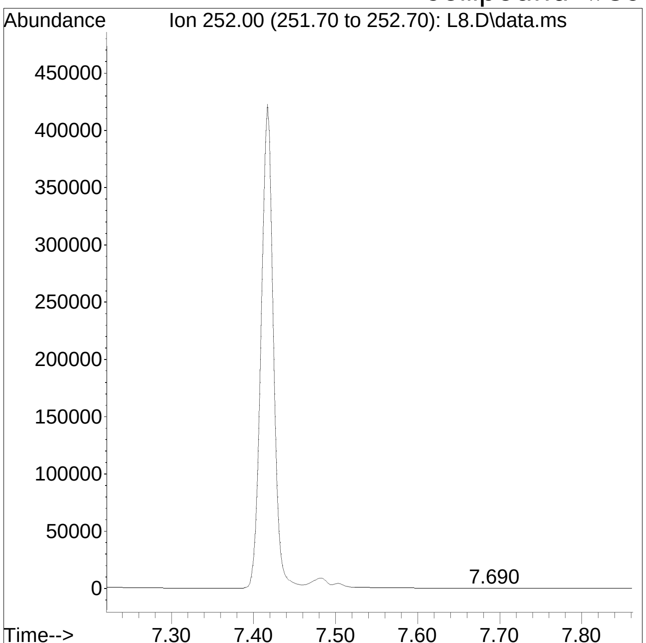



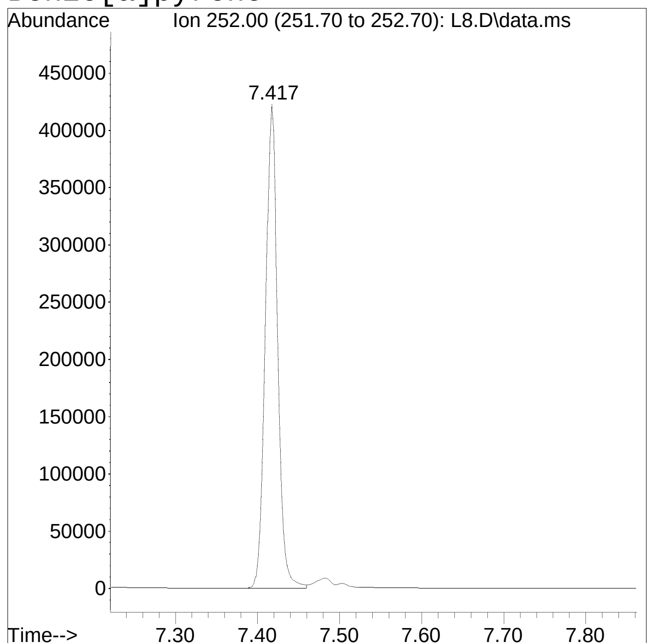

Original Peak Response = 436531 Manual Peak Response = 515928 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L8.D                        Operator    : SV118:dv
Date Inj'd  : 10/25/2024  5:19 pm         Instrument  : SV118
Sample      : IL8,32,, #10888 1000 ng/mlQuant Date  : 12/4/2024 11:34 am
```

Compound #39: Benzo[a]pyrene



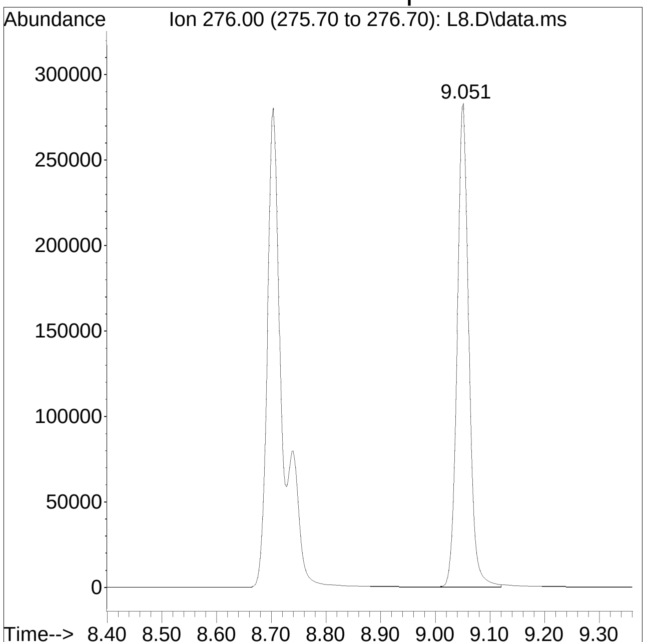



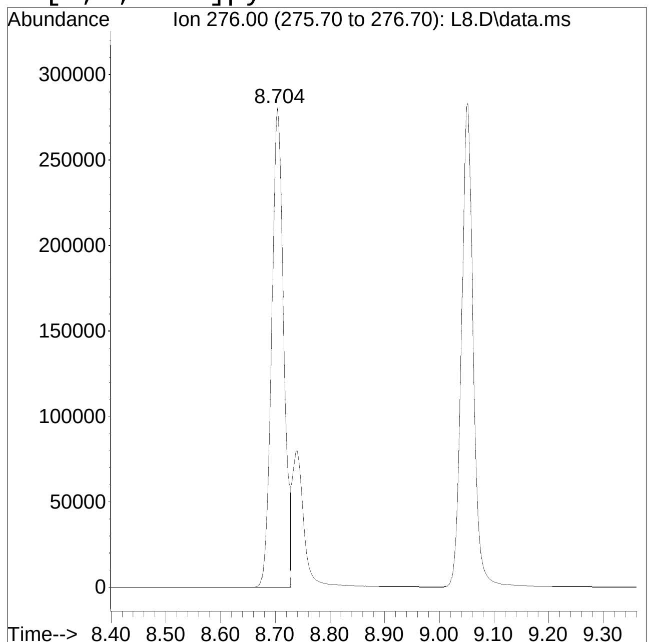

Original Peak Response = 24          Manual Peak Response = 438734 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L8.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:19 pm Instrument : SV118
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/4/2024 11:34 am

Compound #40: Indeno[1,2,3-cd]pyrene



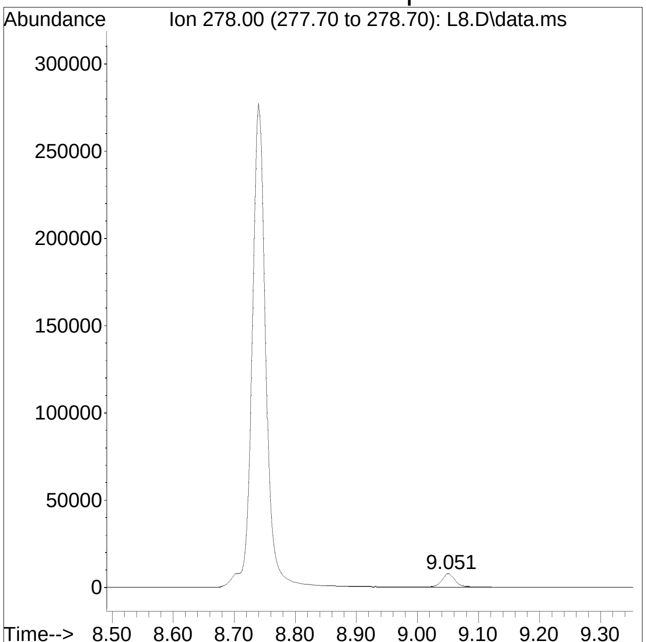

Original Peak Response = 418979 Manual Peak Response = 431085 M3

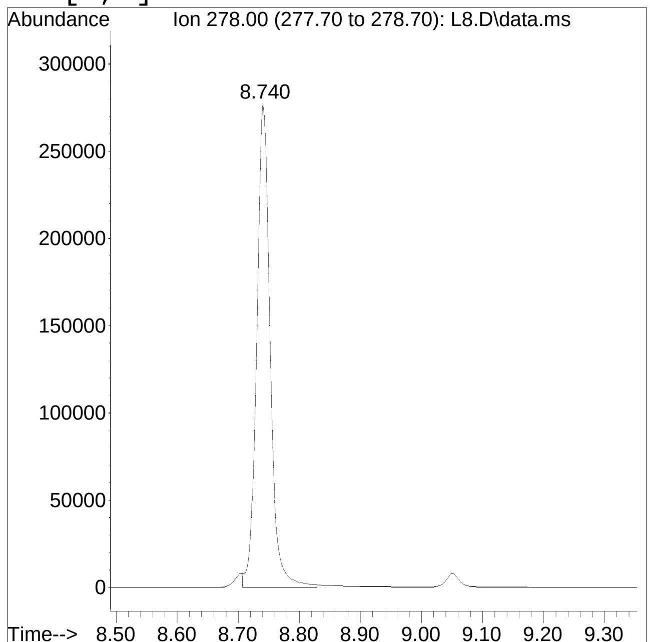
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L8.D                        Operator   : SV118:dv
Date Inj'd  : 10/25/2024  5:19 pm         Instrument  : SV118
Sample      : IL8,32,, #10888 1000 ng/mlQuant Date  : 12/4/2024 11:34 am
```

Compound #41: Dibenzo[a,h]anthracene



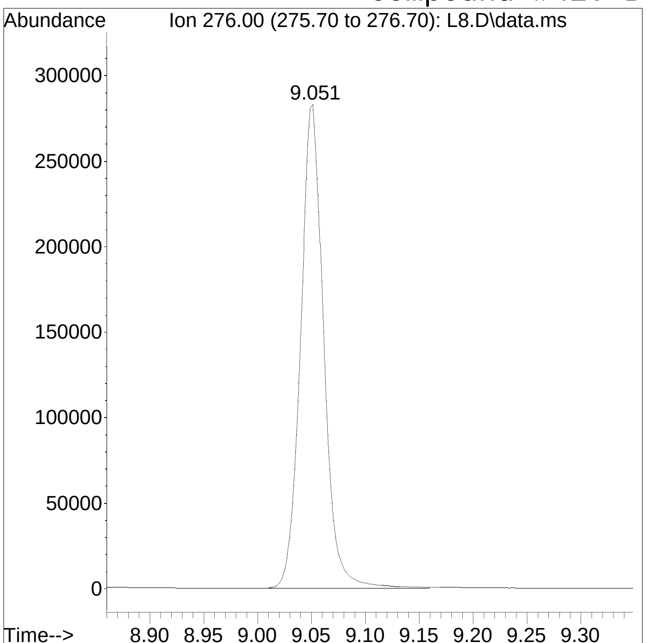

Original Peak Response = 11541        Manual Peak Response = 423760 M2

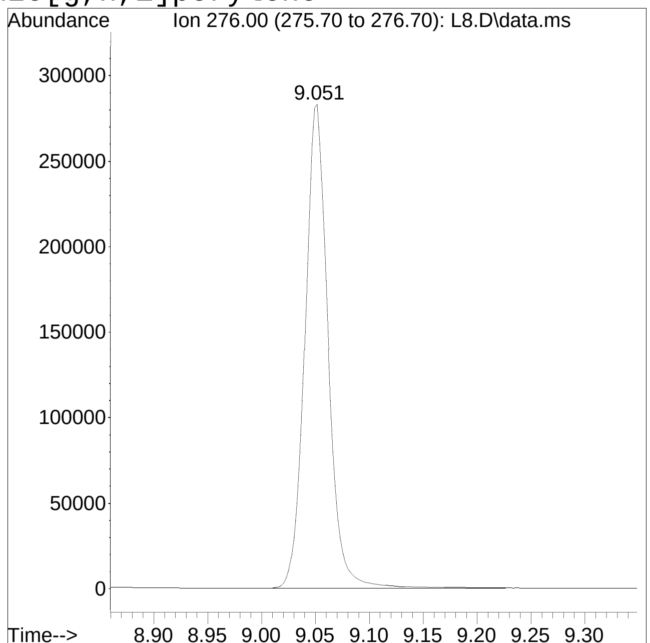
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L8.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:19 pm Instrument : SV118
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/4/2024 11:34 am

Compound #42: Benzo[g,h,i]perylene




Original Peak Response = 421024 Manual Peak Response = 422562 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report    (QT Reviewed)

```
Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L7.D
Acq On    : 25 Oct 2024  05:37 pm
Operator  : SV118:dv
Sample    : IL7,32,, #10889 500 ng/ml
Misc      : WG1990947,,ical
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Dec 04 11:32:46 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List     : Default - All compounds listed

       Compound                    R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4       2.283  152    381360   4000.000 ng/ml    0.00
   Standard Area 1 = 429824                 Recovery   =   88.72%
 8) Naphthalene-d8               2.946  136   1393828   4000.000 ng/ml    0.00
   Standard Area 1 = 1574353                 Recovery   =   88.53%
17) Acenaphthene-d10             3.923  164    767564   4000.000 ng/ml    0.00
   Standard Area 1 = 863987                 Recovery   =   88.84%
22) Phenanthrene-d10             4.753  188   1620744   4000.000 ng/ml  # 0.00
   Standard Area 1 = 1755380                 Recovery   =   92.33%
31) Chrysene-d12                 6.277  240   1646437   4000.000 ng/ml    0.00
   Standard Area 1 = 1692718                 Recovery   =   97.27%
36) Perylene-d12                 7.488  264   1727376   4000.000 ng/ml    0.00
   Standard Area 1 = 1795203                 Recovery   =   96.22%

 System Monitoring Compounds
 2) 2-Fluorophenol               1.682  112     52262   484.705 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   24.24%
 3) Phenol-d6                    2.085   99     64713   488.430 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   24.42%
 7) Nitrobenzene-d5              2.561   82     42910   501.645 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   50.16%
13) 2-Fluorobiphenyl             3.544  172    130931   488.544 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   48.85%
21) 2,4,6-Tribromophenol         4.362  330     18260   516.276 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   25.81%
30) 4-Terphenyl-d14              5.650  244    167002   503.601 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   50.36%

 Target Compounds                                                   Qvalue
 4) Bis(2-chloroethyl)ether      2.143   93      57253    505.526 ng/ml     97
 5) n-nitrosodi-n-propylamine    2.482   70      40405    482.194 ng/ml     97
 6) Hexachloroethane             2.543  117      23509    491.338 ng/ml     86
 9) Naphthalene                  2.958  128     176856    482.014 ng/ml    100
10) Hexachlorobutadiene          3.029  225      31966    490.862 ng/ml    100
11) 2-Methylnaphthalene          3.339  142     115432    491.173 ng/ml     98
12) 1-Methylnaphthalene          3.394  142     106674    487.900 ng/ml     98
14) 2-Chloronaphthalene          3.609  162     116199M3  492.634 ng/ml
15) 2,6-Dinitrotoluene           3.800  165      15072    472.105 ng/ml#    81
16) Acenaphthylene               3.841  152     175925    503.826 ng/ml     99
18) Acenaphthene                 3.939  153     121832    485.536 ng/ml     97
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L7.D
Acq On : 25 Oct 2024 05:37 pm
Operator : SV118:dv
Sample : IL7,32,, #10889 500 ng/ml
Misc : WG1990947,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 04 11:32:46 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 19) | 2,4-Dinitrotoluene | 4.025 | 165 | 19855 | 431.377 | ng/ml | 85 |
| 20) | Fluorene | 4.228 | 166 | 133880 | 500.807 | ng/ml | 97 |
| 23) | 4,6-Dinitro-o-cresol | 4.251 | 198 | 8418 | 425.915 | ng/ml# | 77 |
| 24) | Hexachlorobenzene | 4.540 | 284 | 52390 | 490.973 | ng/ml | 98 |
| 25) | Pentachlorophenol | 4.649 | 266 | 18162M1 | 457.590 | ng/ml | |
| 26) | Phenanthrene | 4.765 | 178 | 213555 | 485.374 | ng/ml | 99 |
| 27) | Anthracene | 4.795 | 178 | 215333 | 498.704 | ng/ml | 99 |
| 28) | Fluoranthene | 5.434 | 202 | 250289 | 508.190 | ng/ml# | 92 |
| 29) | Pyrene | 5.562 | 202 | 268359 | 512.937 | ng/ml | 100 |
| 32) | Benzo[a]anthracene | 6.268 | 226 | 73539 | 456.086 | ng/ml# | 98 |
| 33) | 3,3'-Dichlorobenzidine | 6.251 | 252 | 91983 | 535.177 | ng/ml | 99 |
| 34) | Chrysene | 6.293 | 228 | 251190 | 505.753 | ng/ml# | 100 |
| 35) | Bis(2-ethylhexyl)phtha... | 6.288 | 149 | 141470 | 493.946 | ng/ml | 96 |
| 37) | Benzo[b]fluoranthene | 7.108 | 252 | 236214 | 530.407 | ng/ml | 99 |
| 38) | Benzo[k]fluoranthene | 7.132 | 252 | 243985 | 516.717 | ng/ml | 100 |
| 39) | Benzo[a]pyrene | 7.419 | 252 | 210014 | 533.777 | ng/ml | 100 |
| 40) | Indeno[1,2,3-cd]pyrene | 8.709 | 276 | 201576 | 549.547 | ng/ml# | 88 |
| 41) | Dibenzo[a,h]anthracene | 8.745 | 278 | 202238M6 | 541.626 | ng/ml | |
| 42) | Benzo[g,h,i]perylene | 9.054 | 276 | 202429 | 526.456 | ng/ml# | 86 |

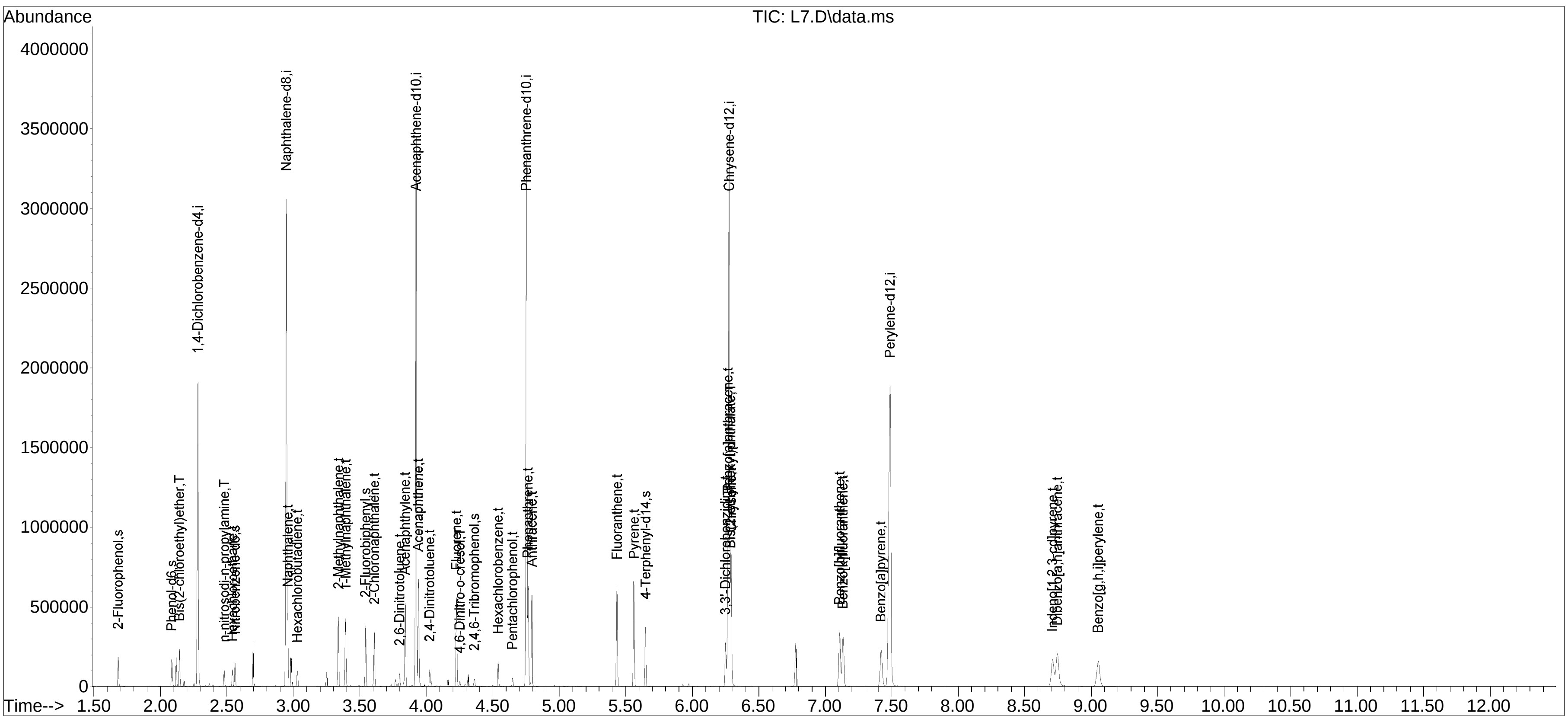
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L7.D
Acq On    : 25 Oct 2024  05:37 pm
Operator  : SV118:dv
Sample    : IL7,32,, #10889 500 ng/ml
Misc      : WG1990947,,ical
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Dec 04 11:32:46 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:16 2024
Response via : Initial Calibration

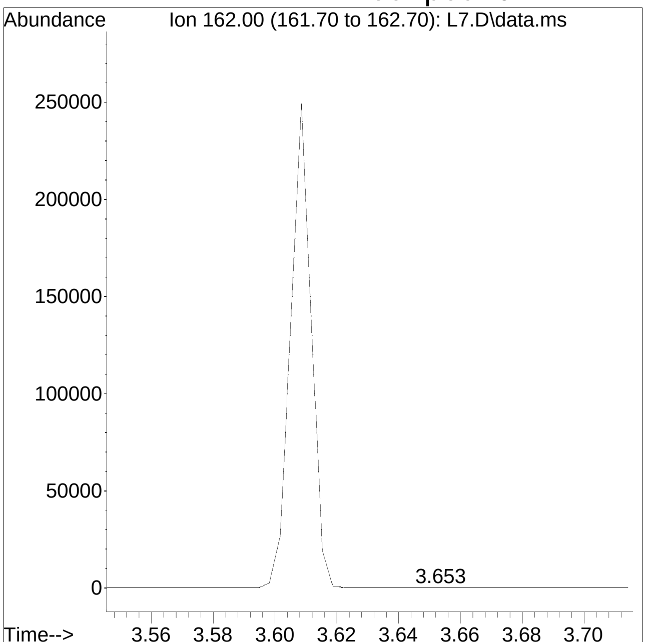
Sub List     : Default - All compounds listedical\L8.D•

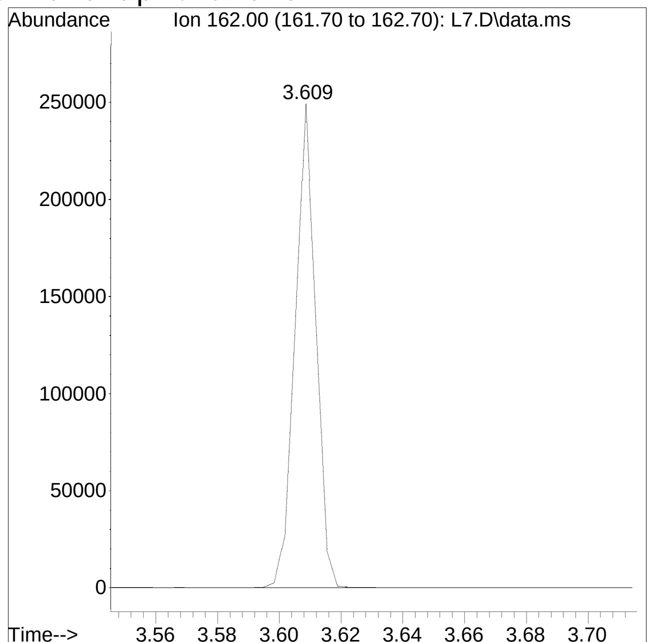


Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L7.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:37 pm Instrument : SV118
Sample : IL7,32,, #10889 500 ng/ml Quant Date : 12/4/2024 11:34 am

Compound #14: 2-Chloronaphthalene



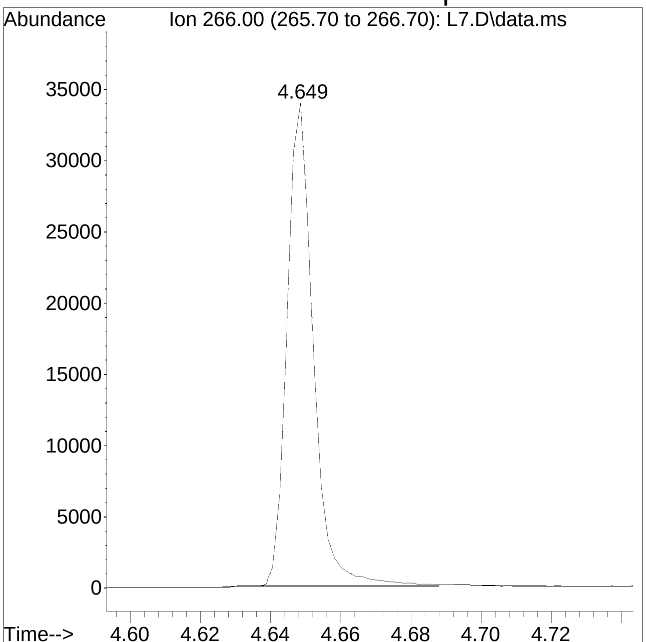



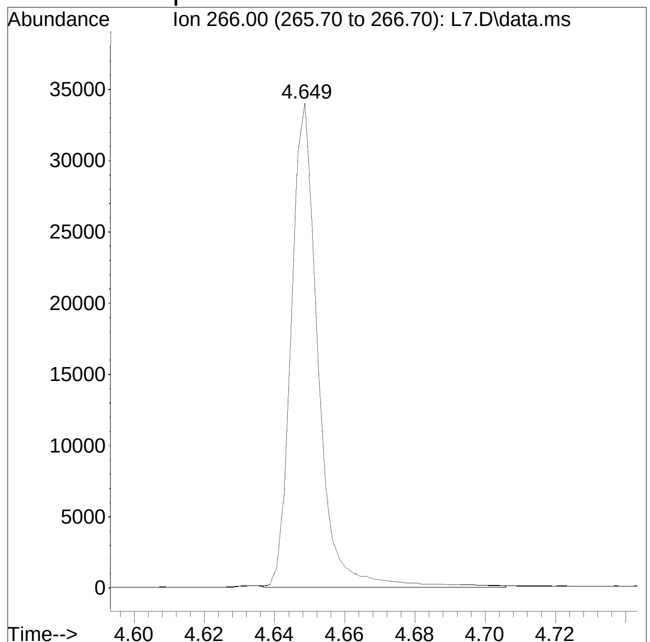

Original Peak Response = 34 Manual Peak Response = 116199 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L7.D                        Operator    : SV118:dv
Date Inj'd  : 10/25/2024  5:37 pm         Instrument  : SV118
Sample      : IL7,32,, #10889 500 ng/ml Quant Date  : 12/4/2024 11:34 am
```

Compound #25: Pentachlorophenol



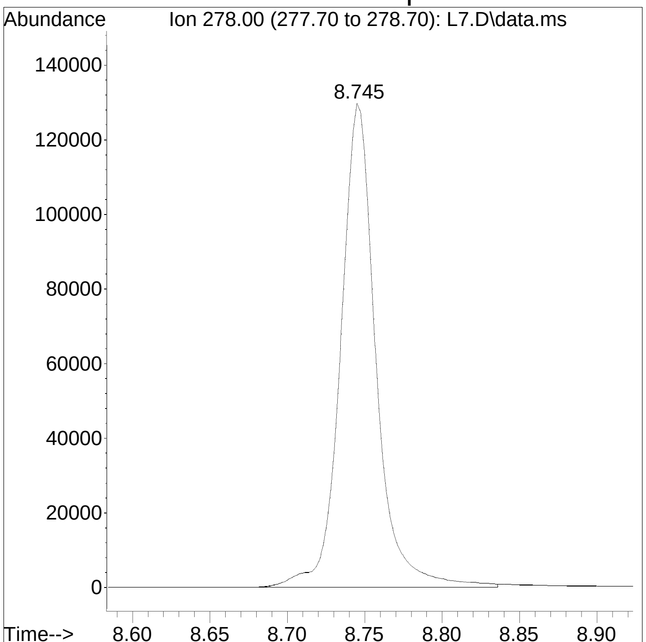

Original Peak Response = 17710          Manual Peak Response = 18162 M1

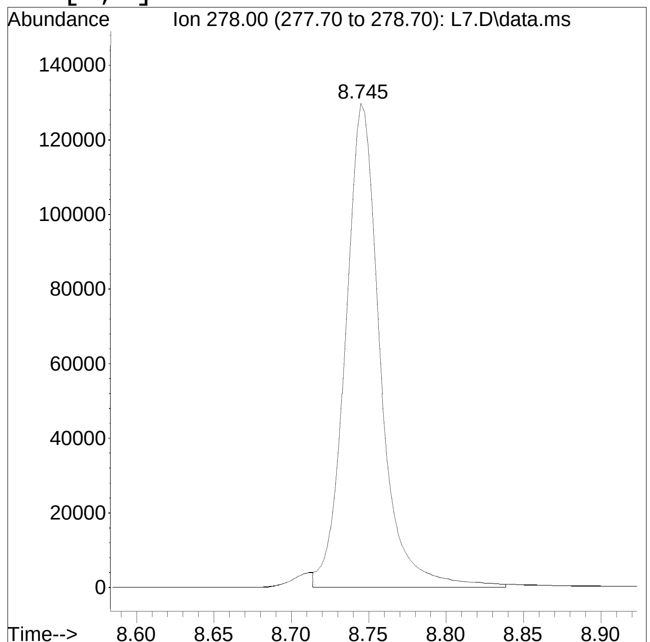
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L7.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:37 pm Instrument : SV118
Sample : IL7,32,, #10889 500 ng/ml Quant Date : 12/4/2024 11:34 am

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 205749 Manual Peak Response = 202238 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report    (QT Reviewed)

```
Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L6.D
Acq On    : 25 Oct 2024  05:55 pm
Operator  : SV118:dv
Sample    : IL6,32,, #10899 100 ng/ml
Misc      : WG1990947,,ical
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Dec 04 11:32:36 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List     : Default - All compounds listed

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
-------------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4      2.283  152    368408   4000.000 ng/ml    0.00
   Standard Area 1 = 429824                Recovery   =   85.71%
 8) Naphthalene-d8              2.946  136   1341604   4000.000 ng/ml    0.00
   Standard Area 1 = 1574353                Recovery   =   85.22%
17) Acenaphthene-d10            3.924  164    725196   4000.000 ng/ml    0.00
   Standard Area 1 = 863987                Recovery   =   83.94%
22) Phenanthrene-d10            4.755  188   1514238M3  4000.000 ng/ml    0.00
   Standard Area 1 = 1755380                Recovery   =   86.26%
31) Chrysene-d12                6.277  240   1564976   4000.000 ng/ml    0.00
   Standard Area 1 = 1692718                Recovery   =   92.45%
36) Perylene-d12                7.487  264   1629061   4000.000 ng/ml    0.00
   Standard Area 1 = 1795203                Recovery   =   90.75%

 System Monitoring Compounds
 2) 2-Fluorophenol              1.685  112     12084   116.014 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    5.80%#
 3) Phenol-d6                   2.088   99     15040   117.507 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    5.88%#
 7) Nitrobenzene-d5             2.563   82      9820   118.838 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   11.88%#
13) 2-Fluorobiphenyl            3.547  172     30432   117.971 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   11.80%#
21) 2,4,6-Tribromophenol        4.362  330      3851   115.243 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    5.76%#
30) 4-Terphenyl-d14             5.649  244     37131M3   119.846 ng/ml   0.00

   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   11.98%#

 Target Compounds                                                  Qvalue
 4) Bis(2-chloroethyl)ether     2.146   93      18260    165.258 ng/ml#    74
 5) n-nitrosodi-n-propylamine   2.482   70       9287    114.728 ng/ml     97
 6) Hexachloroethane            2.543  117       5415    117.152 ng/ml     86
 9) Naphthalene                 2.958  128      41707    118.096 ng/ml    100
10) Hexachlorobutadiene         3.033  225       7480    119.332 ng/ml    100
11) 2-Methylnaphthalene         3.339  142      26657    117.843 ng/ml     98
12) 1-Methylnaphthalene         3.394  142      24903    118.334 ng/ml     98
14) 2-Chloronaphthalene         3.608  162      26807    118.074 ng/ml#    88
15) 2,6-Dinitrotoluene          3.802  165       2971     96.684 ng/ml#    80
16) Acenaphthylene              3.843  152      39466    117.425 ng/ml    100
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L6.D
Acq On : 25 Oct 2024 05:55 pm
Operator : SV118:dv
Sample : IL6,32,, #10899 100 ng/ml
Misc : WG1990947,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 04 11:32:36 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 18) Acenaphthene | 3.941 | 153 | 28287 | 119.318 ng/ml | 99 |
| 19) 2,4-Dinitrotoluene | 4.027 | 165 | 3542 | 101.729 ng/ml# | 80 |
| 20) Fluorene | 4.228 | 166 | 30307 | 119.993 ng/ml | 98 |
| 23) 4,6-Dinitro-o-cresol | 4.255 | 198 | 1566 | 104.281 ng/ml# | 79 |
| 24) Hexachlorobenzene | 4.542 | 284 | 11948 | 119.846 ng/ml | 98 |
| 25) Pentachlorophenol | 4.650 | 266 | 3167M3 | 85.405 ng/ml | |
| 26) Phenanthrene | 4.767 | 178 | 49338M6 | 120.024 ng/ml | |
| 27) Anthracene | 4.794 | 178 | 48360 | 119.878 ng/ml | 100 |
| 28) Fluoranthene | 5.434 | 202 | 55815 | 121.299 ng/ml# | 91 |
| 29) Pyrene | 5.562 | 202 | 58434 | 119.546 ng/ml | 100 |
| 32) Benzo[a]anthracene | 6.268 | 226 | 16481 | 107.535 ng/ml# | 95 |
| 33) 3,3'-Dichlorobenzidine | 6.252 | 252 | 18616 | 113.950 ng/ml | 99 |
| 34) Chrysene | 6.292 | 228 | 57463 | 121.720 ng/ml# | 99 |
| 35) Bis(2-ethylhexyl)phtha... | 6.289 | 149 | 27080 | 99.472 ng/ml | 100 |
| 37) Benzo[b]fluoranthene | 7.107 | 252 | 50155 | 119.417 ng/ml | 99 |
| 38) Benzo[k]fluoranthene | 7.131 | 252 | 54374 | 122.104 ng/ml | 100 |
| 39) Benzo[a]pyrene | 7.418 | 252 | 44315 | 119.429 ng/ml | 99 |
| 40) Indeno[1,2,3-cd]pyrene | 8.705 | 276 | 40165 | 116.108 ng/ml# | 88 |
| 41) Dibenzo[a,h]anthracene | 8.741 | 278 | 42696M3 | 121.248 ng/ml | |
| 42) Benzo[g,h,i]perylene | 9.050 | 276 | 43194 | 119.114 ng/ml# | 86 |

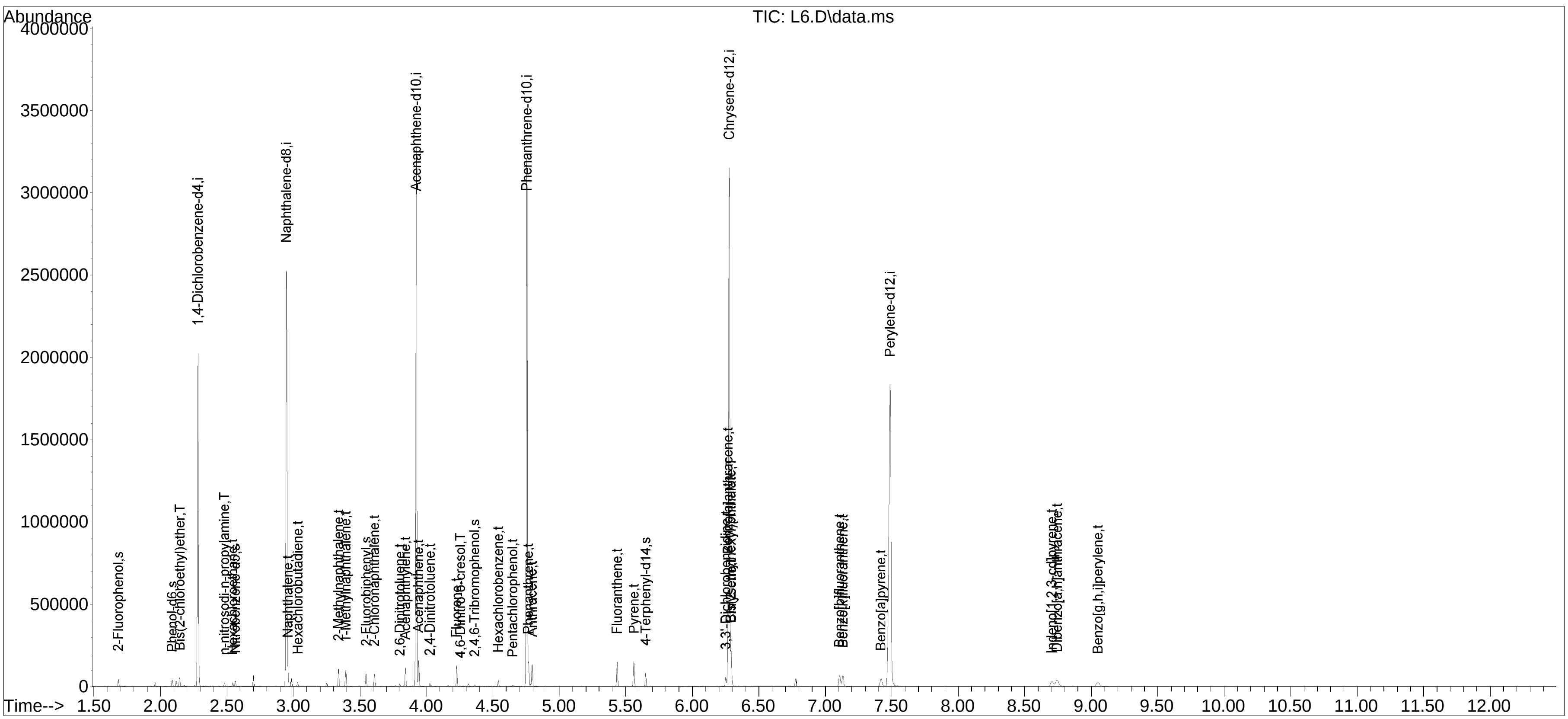
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L6.D
Acq On    : 25 Oct 2024  05:55 pm
Operator  : SV118:dv
Sample    : IL6,32,, #10899 100 ng/ml
Misc      : WG1990947,,ical
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Dec 04 11:32:36 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:10 2024
Response via : Initial Calibration

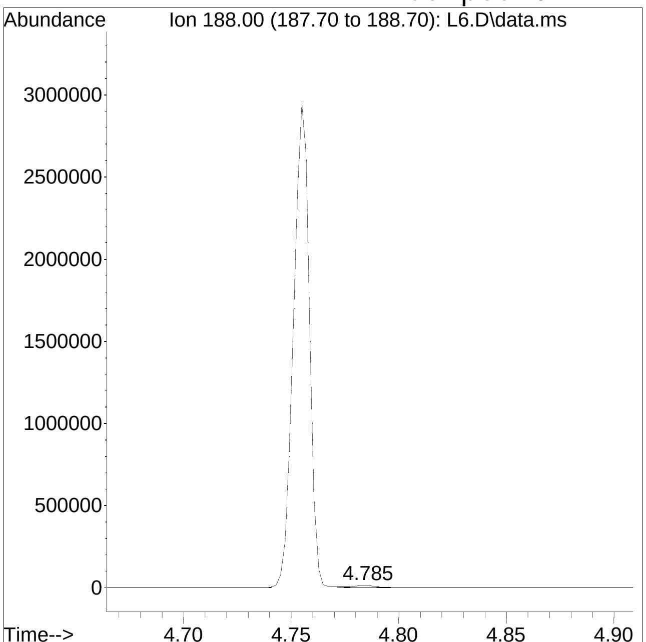
Sub List     : Default - All compounds listedical\L8.D•

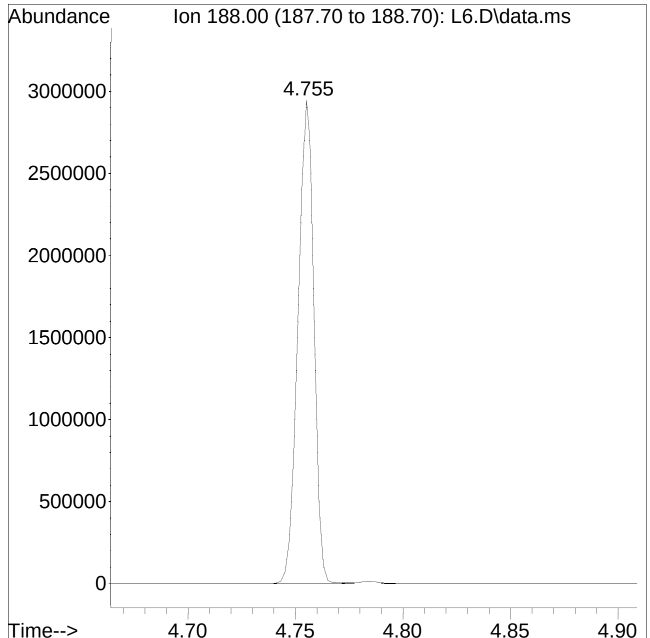


Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L6.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:55 pm Instrument : SV118
Sample : IL6,32,, #10899 100 ng/ml Quant Date : 12/4/2024 11:34 am

Compound #22: Phenanthrene-d10



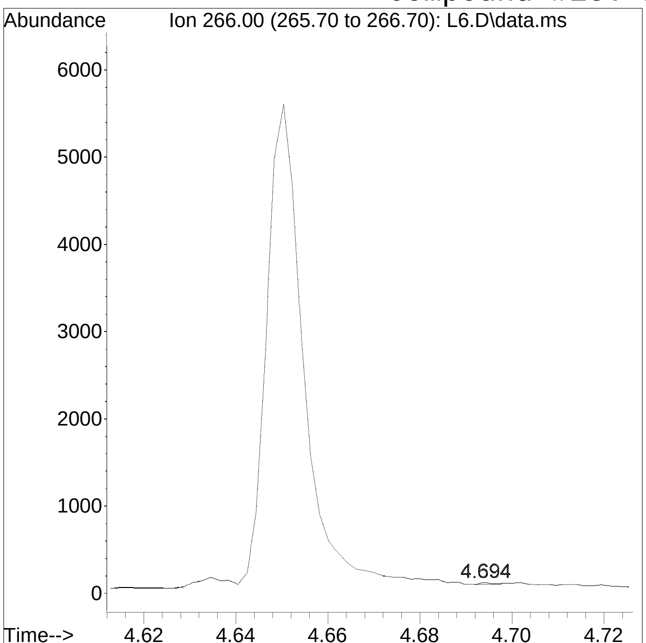



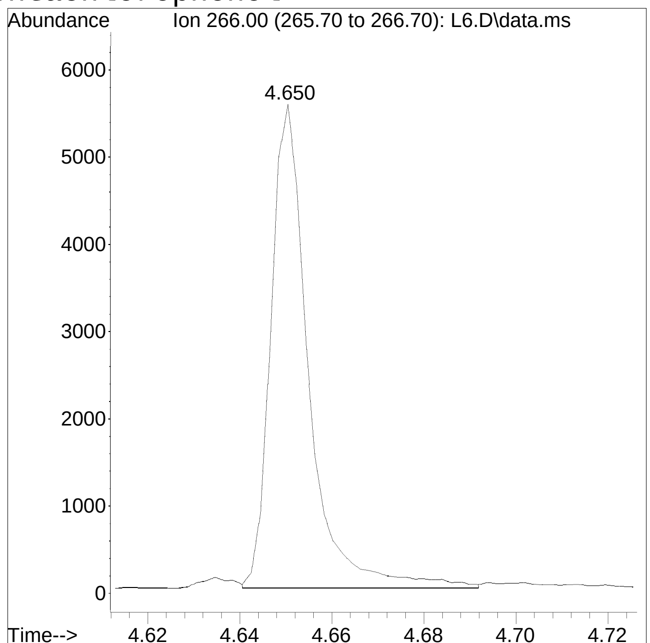

Original Peak Response = 11291 Manual Peak Response = 1514238 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L6.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:55 pm Instrument : SV118
Sample : IL6,32,, #10899 100 ng/ml Quant Date : 12/4/2024 11:34 am

Compound #25: Pentachlorophenol



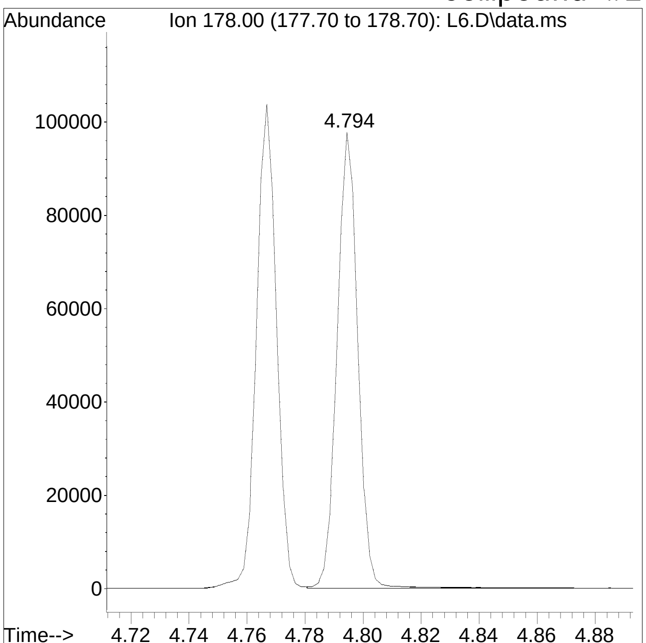

Original Peak Response = 5 Manual Peak Response = 3167 M3

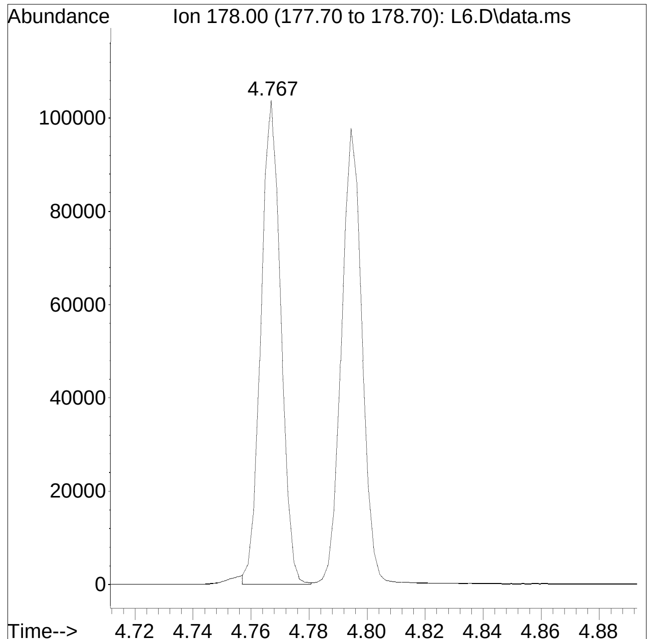
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L6.D                        Operator    : SV118:dv
Date Inj'd  : 10/25/2024  5:55 pm         Instrument  : SV118
Sample      : IL6,32,, #10899 100 ng/ml Quant Date  : 12/4/2024 11:34 am
```

Compound #26: Phenanthrene



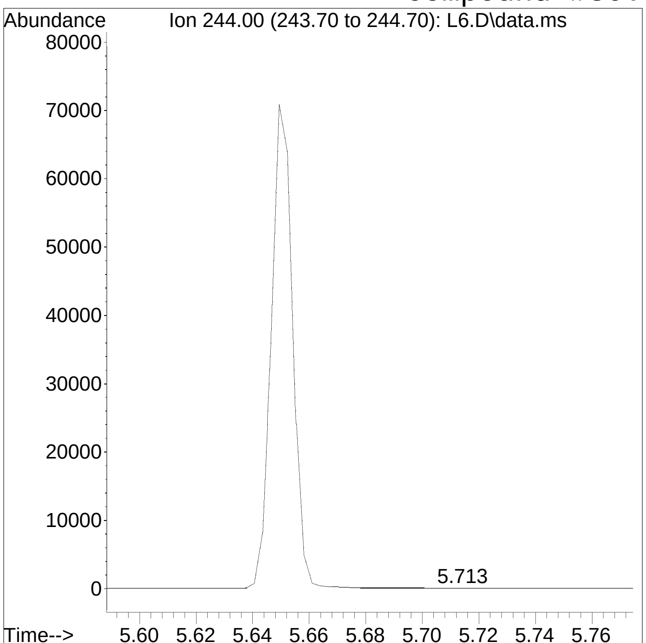

Original Peak Response = 48352        Manual Peak Response = 49338 M6

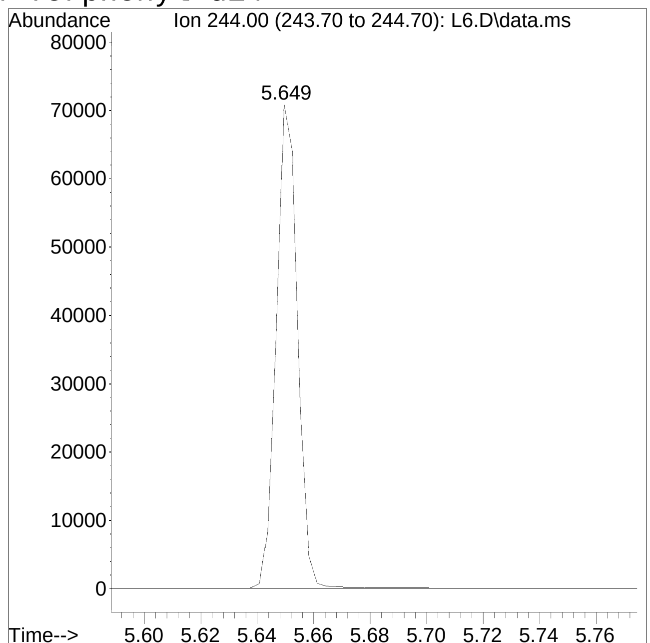
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L6.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:55 pm Instrument : SV118
Sample : IL6,32,, #10899 100 ng/ml Quant Date : 12/4/2024 11:34 am

Compound #30: 4-Terphenyl-d14




Original Peak Response = 21 Manual Peak Response = 37131 M3

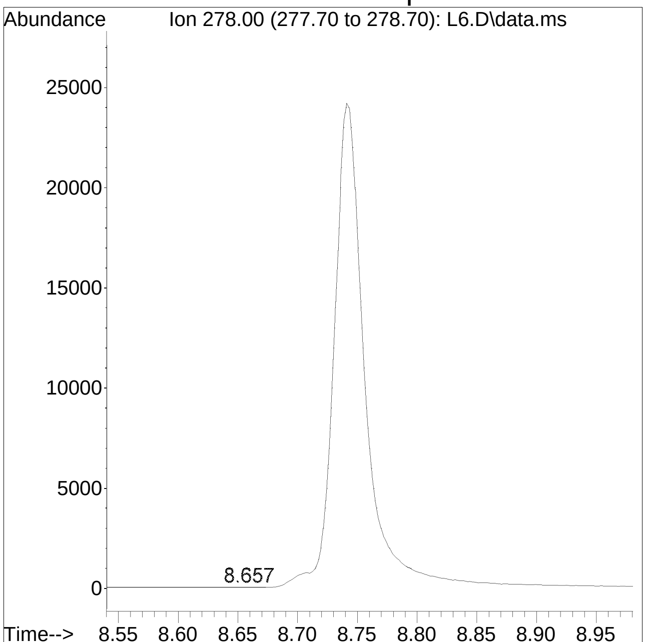
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

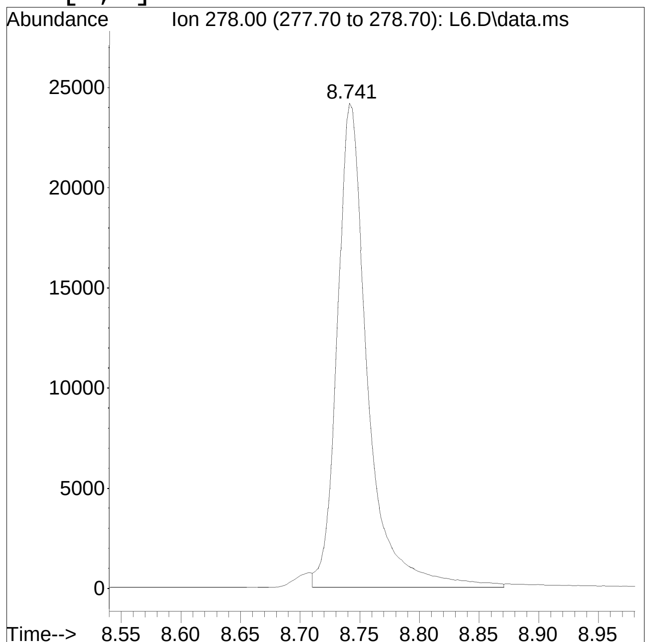
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410Q
Data File : L6.D
Date Inj'd : 10/25/2024 5:55 pm
Sample : IL6,32,, #10899 100 ng/ml

Method : SIM-RVT_241025sv118.M
Operator : SV118:dv
Instrument : SV118
Quant Date : 12/4/2024 11:34 am

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 7

Manual Peak Response = 42696 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:\8270SIM\SV118\2024\241025RVTical\
Data File : L5.D
Acq On : 25 Oct 2024 06:12 pm
Operator : SV118:dv
Sample : IL5,32,, #10891 40 ng/ml
Misc : WG1990947,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 04 11:32:30 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 2.286 | 152 | 350794 | 4000.000 ng/ml | 0.00 |
| Standard Area 1 = 429824 | | | Recovery = | 81.61% | |
| 8) Naphthalene-d8 | 2.950 | 136 | 1270298 | 4000.000 ng/ml | 0.00 |
| Standard Area 1 = 1574353 | | | Recovery = | 80.69% | |
| 17) Acenaphthene-d10 | 3.925 | 164 | 679336 | 4000.000 ng/ml | 0.00 |
| Standard Area 1 = 863987 | | | Recovery = | 78.63% | |
| 22) Phenanthrene-d10 | 4.757 | 188 | 1404763M3 | 4000.000 ng/ml | 0.00 |
| Standard Area 1 = 1755380 | | | Recovery = | 80.03% | |
| 31) Chrysene-d12 | 6.279 | 240 | 1442435 | 4000.000 ng/ml | 0.00 |
| Standard Area 1 = 1692718 | | | Recovery = | 85.21% | |
| 36) Perylene-d12 | 7.488 | 264 | 1484437 | 4000.000 ng/ml | 0.00 |
| Standard Area 1 = 1795203 | | | Recovery = | 82.69% | |

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 2) 2-Fluorophenol | 1.686 | 112 | 3731 | 37.618 ng/ml | 0.00 |
| Spiked Amount 2000.000 | Range 15 - 110 | | Recovery = | 1.88%# | |
| 3) Phenol-d6 | 2.088 | 99 | 4580 | 37.580 ng/ml | 0.00 |
| Spiked Amount 2000.000 | Range 15 - 110 | | Recovery = | 1.88%# | |
| 7) Nitrobenzene-d5 | 2.563 | 82 | 2908 | 36.959 ng/ml | 0.00 |
| Spiked Amount 1000.000 | Range 30 - 130 | | Recovery = | 3.70%# | |
| 13) 2-Fluorobiphenyl | 3.547 | 172 | 9203 | 37.679 ng/ml | 0.00 |
| Spiked Amount 1000.000 | Range 30 - 130 | | Recovery = | 3.77%# | |
| 21) 2,4,6-Tribromophenol | 4.366 | 330 | 1070 | 34.182 ng/ml | 0.00 |
| Spiked Amount 2000.000 | Range 15 - 110 | | Recovery = | 1.71%# | |
| 30) 4-Terphenyl-d14 | 5.652 | 244 | 10760 | 37.436 ng/ml | 0.00 |
| Spiked Amount 1000.000 | Range 30 - 130 | | Recovery = | 3.74%# | |

| Target Compounds | R.T. | QIon | Response | Conc Units | Qvalue |
|---|---|---|---|---|---|
| 4) Bis(2-chloroethyl)ether | 2.146 | 93 | 4217 | 38.226 ng/ml | 94 |
| 5) n-nitrosodi-n-propylamine | 2.485 | 70 | 2736 | 35.497 ng/ml | 96 |
| 6) Hexachloroethane | 2.546 | 117 | 1648 | 37.444 ng/ml | 87 |
| 9) Naphthalene | 2.958 | 128 | 12776 | 38.207 ng/ml | 98 |
| 10) Hexachlorobutadiene | 3.033 | 225 | 2307 | 38.871 ng/ml | 100 |
| 11) 2-Methylnaphthalene | 3.343 | 142 | 8074 | 37.696 ng/ml | 97 |
| 12) 1-Methylnaphthalene | 3.397 | 142 | 7553 | 37.905 ng/ml | 99 |
| 14) 2-Chloronaphthalene | 3.612 | 162 | 8084 | 37.606 ng/ml | 88 |
| 15) 2,6-Dinitrotoluene | 3.803 | 165 | 841 | 28.905 ng/ml# | 80 |
| 16) Acenaphthylene | 3.844 | 152 | 11676 | 36.690 ng/ml | 100 |
| 18) Acenaphthene | 3.942 | 153 | 8420 | 37.914 ng/ml | 99 |

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L5.D
Acq On : 25 Oct 2024 06:12 pm
Operator : SV118:dv
Sample : IL5,32,, #10891 40 ng/ml
Misc : WG1990947,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 04 11:32:30 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 19) 2,4-Dinitrotoluene | 4.029 | 165 | 929 | 46.482 | ng/ml# | 83 |
| 20) Fluorene | 4.228 | 166 | 8892 | 37.582 | ng/ml | 98 |
| 23) 4,6-Dinitro-o-cresol | 4.255 | 198 | 398 | 46.224 | ng/ml | 89 |
| 24) Hexachlorobenzene | 4.544 | 284 | 3484 | 37.670 | ng/ml | 97 |
| 25) Pentachlorophenol | 4.652 | 266 | 1183M6 | 34.388 | ng/ml | |
| 26) Phenanthrene | 4.769 | 178 | 14592M3 | 38.264 | ng/ml | |
| 27) Anthracene | 4.796 | 178 | 14074 | 37.606 | ng/ml | 100 |
| 28) Fluoranthene | 5.437 | 202 | 16065M6 | 37.634 | ng/ml | |
| 29) Pyrene | 5.562 | 202 | 16815 | 37.081 | ng/ml | 100 |
| 32) Benzo[a]anthracene | 6.270 | 226 | 4816 | 34.093 | ng/ml# | 70 |
| 33) 3,3'-Dichlorobenzidine | 6.253 | 252 | 4908 | 32.594 | ng/ml | 99 |
| 34) Chrysene | 6.292 | 228 | 16771 | 38.543 | ng/ml# | 99 |
| 35) Bis(2-ethylhexyl)phtha... | 6.289 | 149 | 7113 | 28.348 | ng/ml | 92 |
| 37) Benzo[b]fluoranthene | 7.108 | 252 | 13512 | 35.306 | ng/ml | 99 |
| 38) Benzo[k]fluoranthene | 7.132 | 252 | 15077 | 37.156 | ng/ml | 97 |
| 39) Benzo[a]pyrene | 7.422 | 252 | 11885 | 35.151 | ng/ml | 100 |
| 40) Indeno[1,2,3-cd]pyrene | 8.709 | 276 | 10333 | 32.781 | ng/ml# | 86 |
| 41) Dibenzo[a,h]anthracene | 8.745 | 278 | 10810M6 | 33.689 | ng/ml | |
| 42) Benzo[g,h,i]perylene | 9.054 | 276 | 11799 | 35.708 | ng/ml# | 89 |

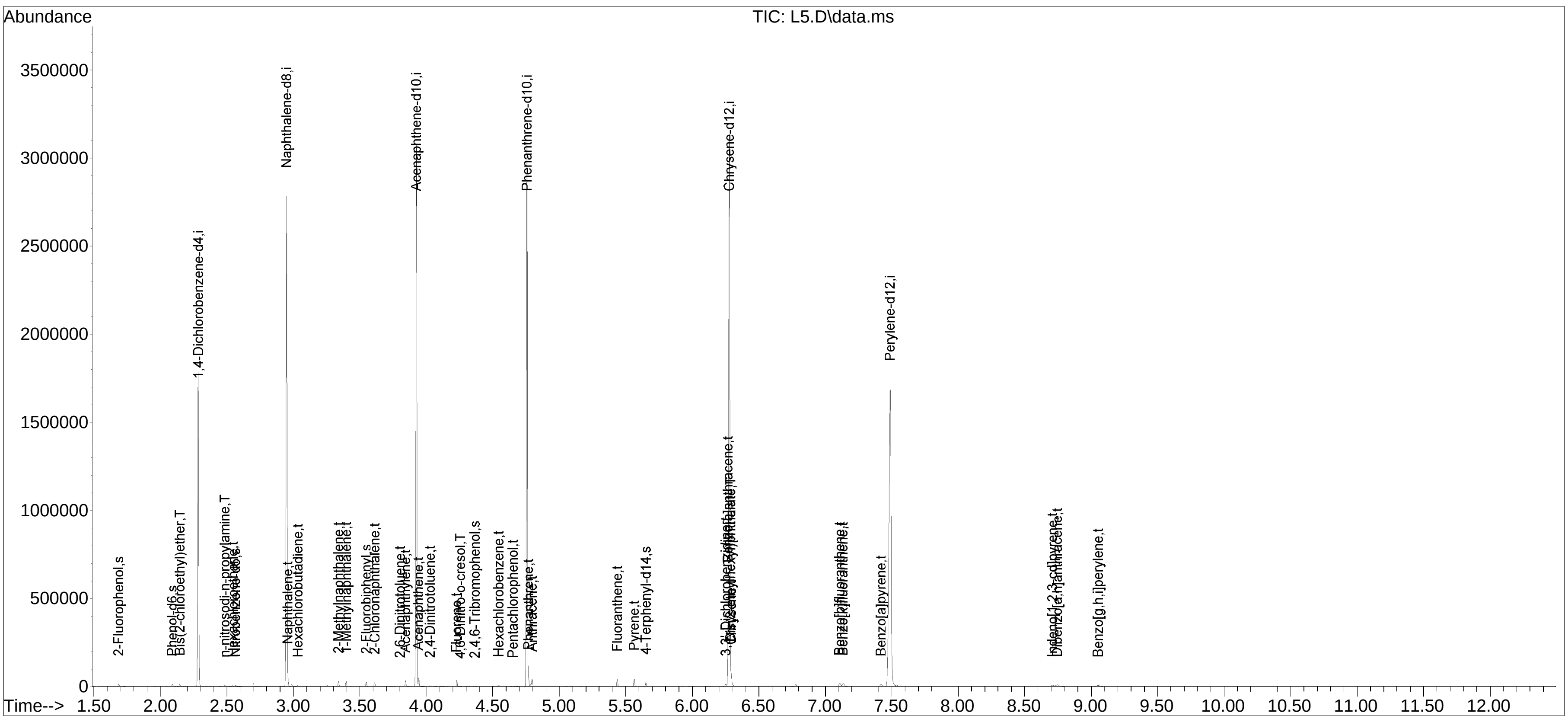
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L5.D
Acq On    : 25 Oct 2024  06:12 pm
Operator  : SV118:dv
Sample    : IL5,32,, #10891 40 ng/ml
Misc      : WG1990947,,ical
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Dec 04 11:32:30 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:03 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listedical\L8.D•

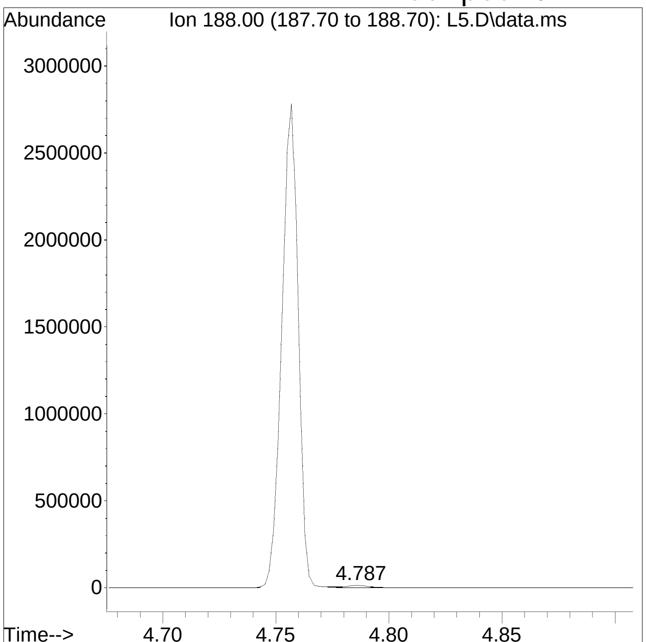


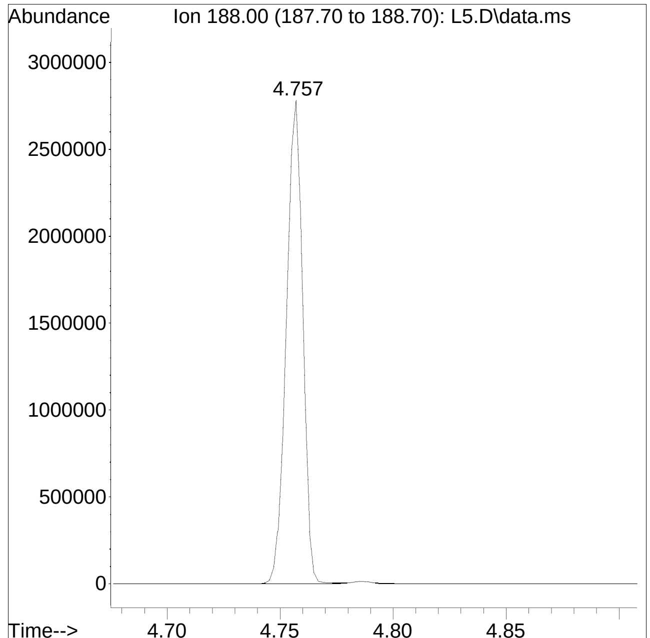
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410Q
Data File : L5.D
Date Inj'd : 10/25/2024 6:12 pm
Sample : IL5,32,, #10891 40 ng/ml

Method : SIM-RVT_241025sv118.M
Operator : SV118:dv
Instrument : SV118
Quant Date : 12/4/2024 11:34 am

Compound #22: Phenanthrene-d10




Original Peak Response = 10389    Manual Peak Response = 1404763 M3

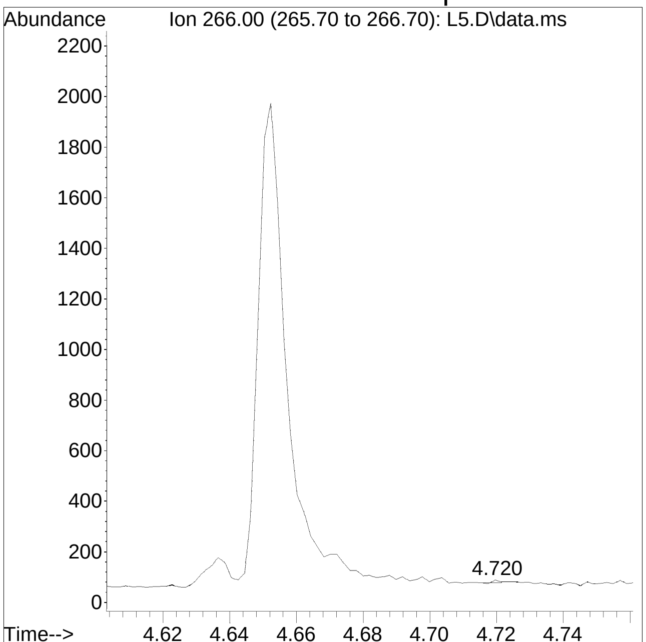
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

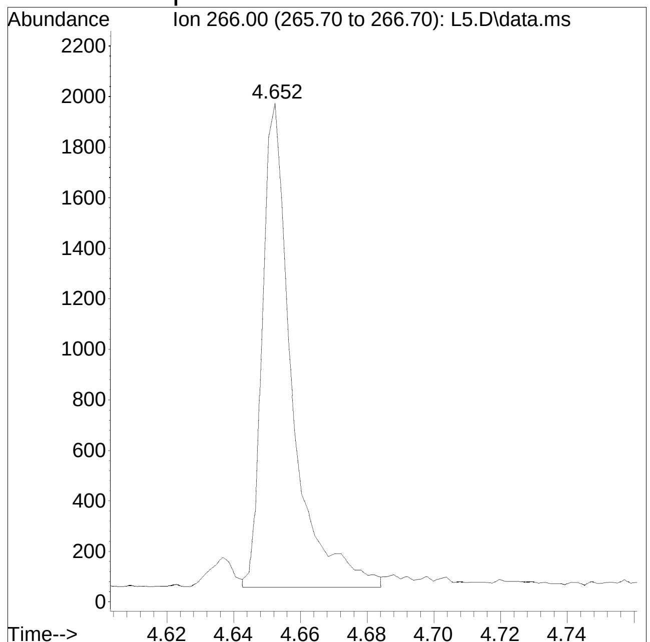
Data Path : I:\8270SIM\SV118\2024\2410Q
Data File : L5.D
Date Inj'd : 10/25/2024 6:12 pm
Sample : IL5,32,, #10891 40 ng/ml

Method : SIM-RVT_241025sv118.M
Operator : SV118:dv
Instrument : SV118
Quant Date : 12/4/2024 11:34 am

Compound #25: Pentachlorophenol




Original Peak Response = 2



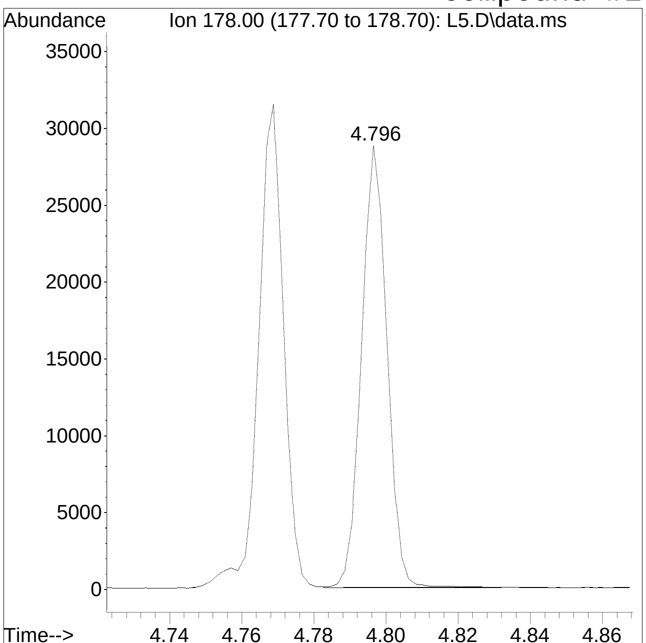

Manual Peak Response = 1183 M6

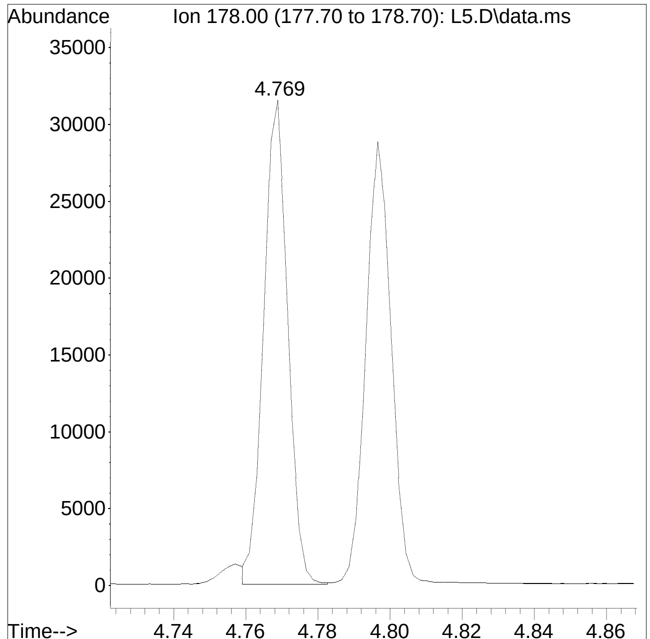
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L5.D                          Operator    : SV118:dv
Date Inj'd  : 10/25/2024  6:12 pm           Instrument  : SV118
Sample      : IL5,32,, #10891 40 ng/ml  Quant Date  : 12/4/2024 11:34 am
```

Compound #26: Phenanthrene



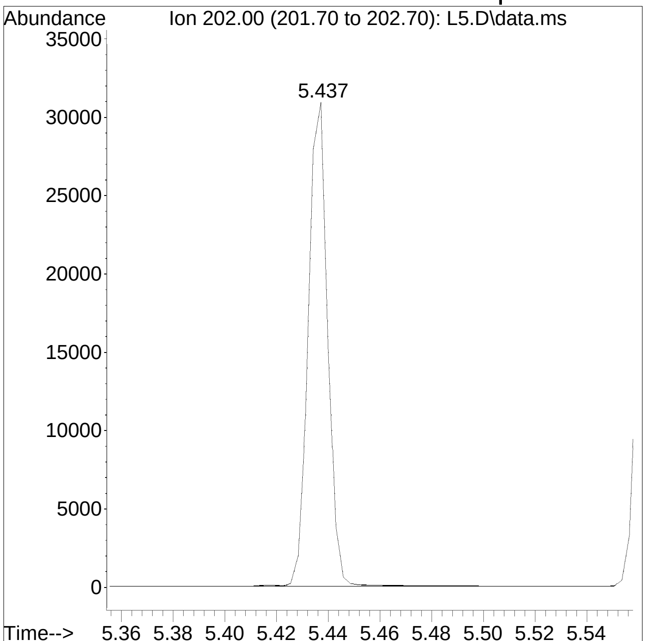

Original Peak Response = 14070        Manual Peak Response = 14592 M3

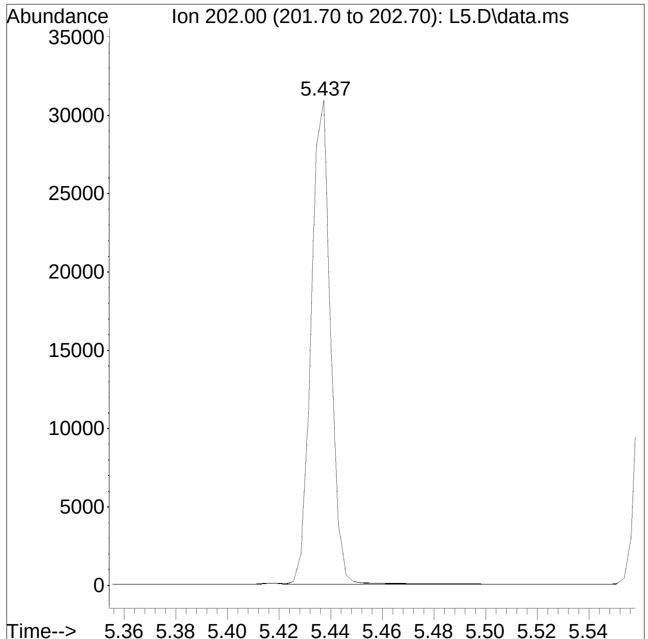
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L5.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:12 pm Instrument : SV118
Sample : IL5,32,, #10891 40 ng/ml Quant Date : 12/4/2024 11:34 am

Compound #28: Fluoranthene



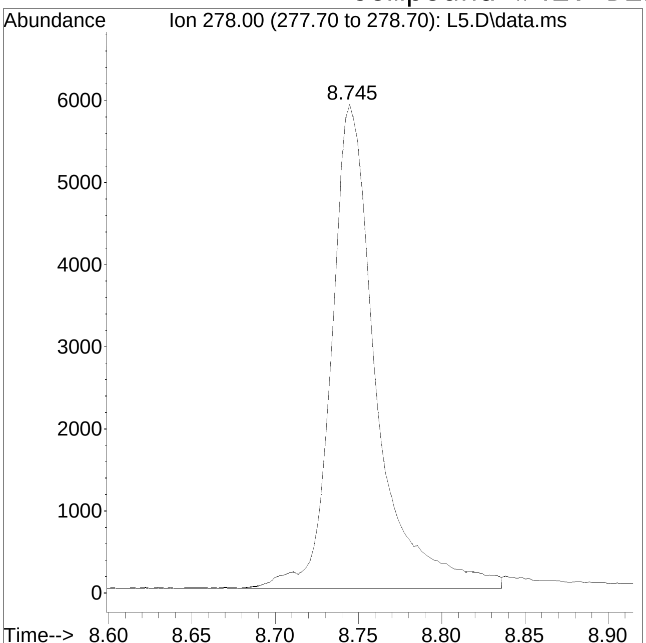



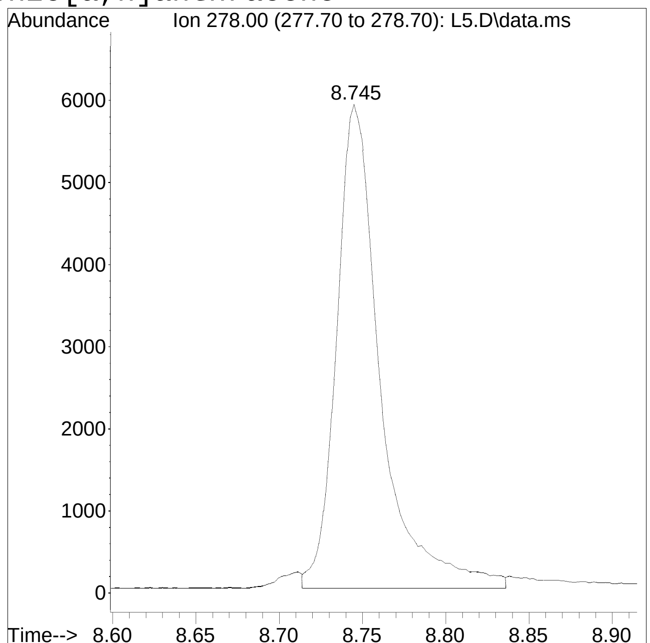

Original Peak Response = 16135 Manual Peak Response = 16065 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L5.D                     Operator    : SV118:dv
Date Inj'd  : 10/25/2024  6:12 pm      Instrument  : SV118
Sample      : IL5,32,, #10891 40 ng/ml  Quant Date  : 12/4/2024 11:34 am
```

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 11005

Manual Peak Response = 10810 M6

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

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L4.D
Acq On    : 25 Oct 2024  06:29 pm
Operator  : SV118:dv
Sample    : IL4,32,, #10892 10 ng/ml
Misc      : WG1990947,,ical
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Dec 04 11:32:23 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List     : Default - All compounds listed

        Compound                    R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4      2.282  152    284775   4000.000 ng/ml    0.00
   Standard Area 1 = 429824               Recovery   =   66.25%
 8) Naphthalene-d8              2.950  136   1020186   4000.000 ng/ml    0.00
   Standard Area 1 = 1574353               Recovery   =   64.80%
17) Acenaphthene-d10            3.927  164    546734   4000.000 ng/ml    0.00
   Standard Area 1 = 863987               Recovery   =   63.28%
22) Phenanthrene-d10            4.757  188   1133012M3  4000.000 ng/ml    0.00
   Standard Area 1 = 1755380               Recovery   =   64.55%
31) Chrysene-d12                6.278  240   1188422   4000.000 ng/ml    0.00
   Standard Area 1 = 1692718               Recovery   =   70.21%
36) Perylene-d12                7.487  264   1231399   4000.000 ng/ml    0.00
   Standard Area 1 = 1795203               Recovery   =   68.59%

 System Monitoring Compounds
 2) 2-Fluorophenol              1.680  112       754     9.365 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.47%#
 3) Phenol-d6                   2.088   99       932     9.420 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.47%#
 7) Nitrobenzene-d5             2.563   82       585     9.159 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =    0.92%#
13) 2-Fluorobiphenyl            3.547  172      1855     9.457 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =    0.95%#
21) 2,4,6-Tribromophenol        4.366  330       211     8.375 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.42%#
30) 4-Terphenyl-d14             5.653  244      2112M3     9.110 ng/ml   0.00

   Spiked Amount   1000.000   Range  30 - 130    Recovery   =    0.91%#

 Target Compounds                                                   Qvalue
 4) Bis(2-chloroethyl)ether     2.146   93       863      7.805 ng/ml     94
 5) n-nitrosodi-n-propylamine   2.484   70       573      9.157 ng/ml     97
 6) Hexachloroethane            2.546  117       340      9.516 ng/ml     89
 9) Naphthalene                 2.962  128      2659M7    9.901 ng/ml
10) Hexachlorobutadiene         3.033  225       463      9.714 ng/ml     97
11) 2-Methylnaphthalene         3.342  142      1637      9.517 ng/ml     98
12) 1-Methylnaphthalene         3.397  142      1490      9.311 ng/ml     95
14) 2-Chloronaphthalene         3.611  162      1615      9.355 ng/ml#    85
15) 2,6-Dinitrotoluene          3.802  165       217M4    9.287 ng/ml
16) Acenaphthylene              3.845  152      2296      8.984 ng/ml    100
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L4.D
Acq On : 25 Oct 2024 06:29 pm
Operator : SV118:dv
Sample : IL4,32,, #10892 10 ng/ml
Misc : WG1990947,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 04 11:32:23 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 18) Acenaphthene | 3.943 | 153 | 1721 | 9.629 ng/ml | 98 |
| 19) 2,4-Dinitrotoluene | 4.030 | 165 | 174 | 29.998 ng/ml# | 88 |
| 20) Fluorene | 4.232 | 166 | 1782 | 9.358 ng/ml | 95 |
| 23) 4,6-Dinitro-o-cresol | 4.260 | 198 | 56M6 | 28.139 ng/ml | |
| 24) Hexachlorobenzene | 4.544 | 284 | 719 | 9.639 ng/ml | 98 |
| 25) Pentachlorophenol | 4.655 | 266 | 220M3 | 7.929 ng/ml | |
| 26) Phenanthrene | 4.769 | 178 | 2970M3 | 9.656 ng/ml | |
| 27) Anthracene | 4.799 | 178 | 2813M4 | 9.319 ng/ml | |
| 28) Fluoranthene | 5.437 | 202 | 3196M3 | 9.283 ng/ml | |
| 29) Pyrene | 5.565 | 202 | 3386M3 | 9.258 ng/ml | |
| 32) Benzo[a]anthracene | 6.271 | 226 | 1220 | 10.482 ng/ml# | 8 |
| 33) 3,3'-Dichlorobenzidine | 6.253 | 252 | 945 | 7.617 ng/ml# | 98 |
| 34) Chrysene | 6.293 | 228 | 3361M4 | 9.375 ng/ml | |
| 35) Bis(2-ethylhexyl)phtha... | 6.288 | 149 | 2112M6 | 10.216 ng/ml | |
| 37) Benzo[b]fluoranthene | 7.109 | 252 | 2756 | 8.681 ng/ml | 99 |
| 38) Benzo[k]fluoranthene | 7.133 | 252 | 2927 | 8.696 ng/ml | 97 |
| 39) Benzo[a]pyrene | 7.421 | 252 | 2377 | 8.475 ng/ml | 98 |
| 40) Indeno[1,2,3-cd]pyrene | 8.708 | 276 | 2088 | 7.985 ng/ml# | 86 |
| 41) Dibenzo[a,h]anthracene | 8.746 | 278 | 2021M1 | 7.593 ng/ml | |
| 42) Benzo[g,h,i]perylene | 9.053 | 276 | 2317 | 8.453 ng/ml# | 85 |

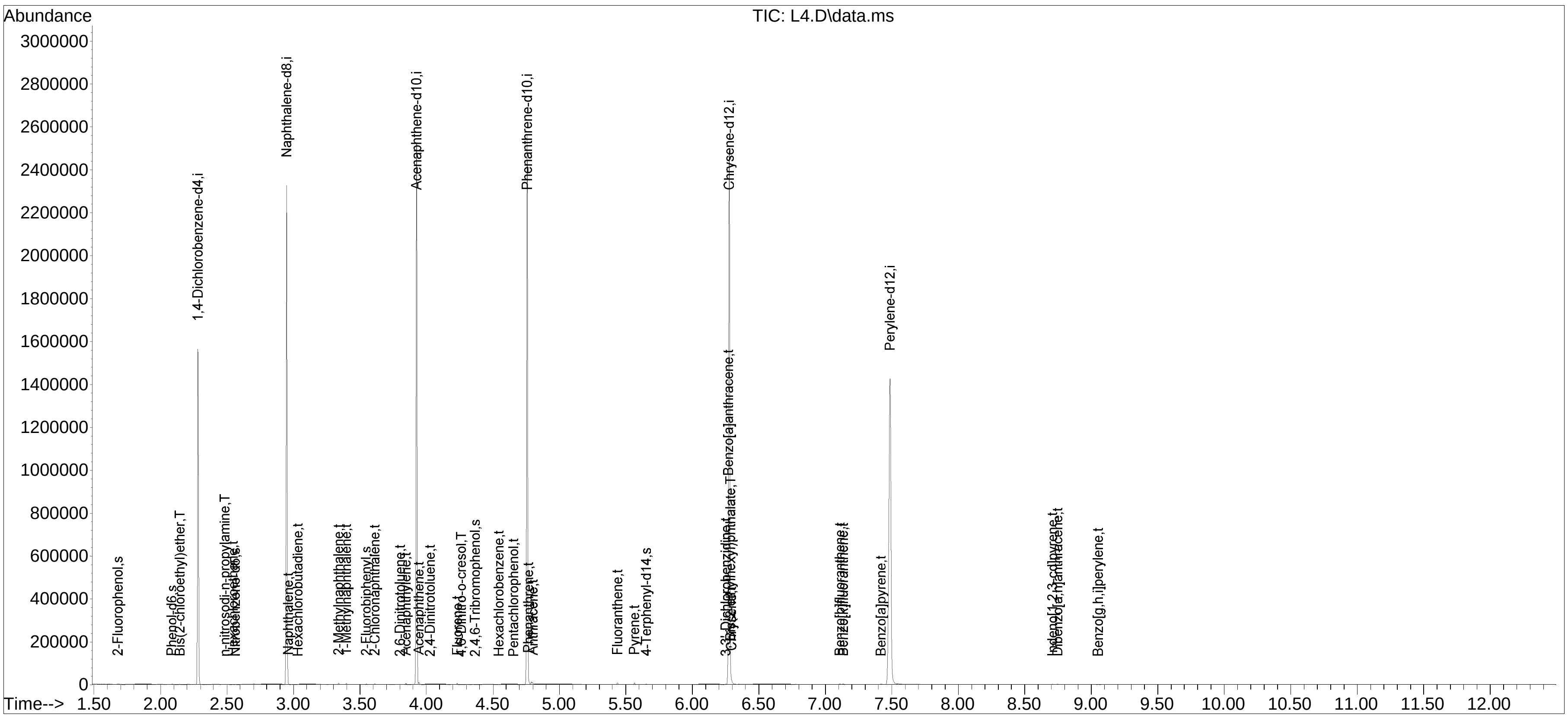
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L4.D
Acq On : 25 Oct 2024 06:29 pm
Operator : SV118:dv
Sample : IL4,32,, #10892 10 ng/ml
Misc : WG1990947,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 04 11:32:23 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:55 2024
Response via : Initial Calibration

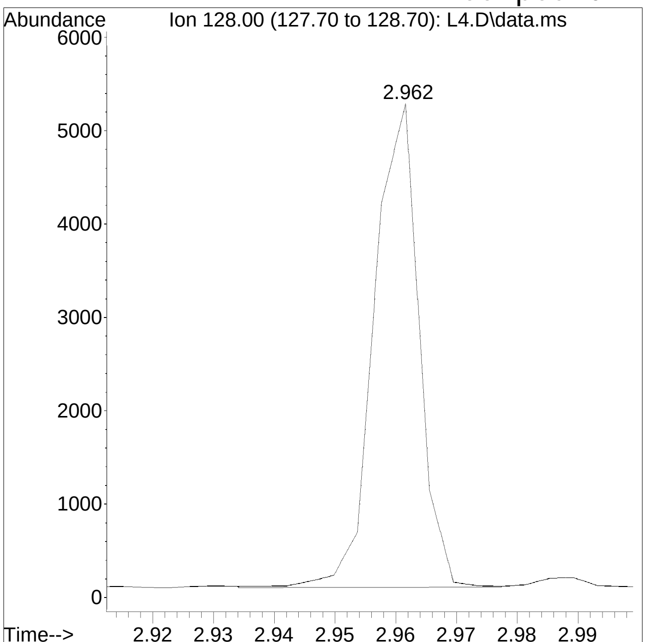
Sub List : Default - All compounds listedical\L8.D•

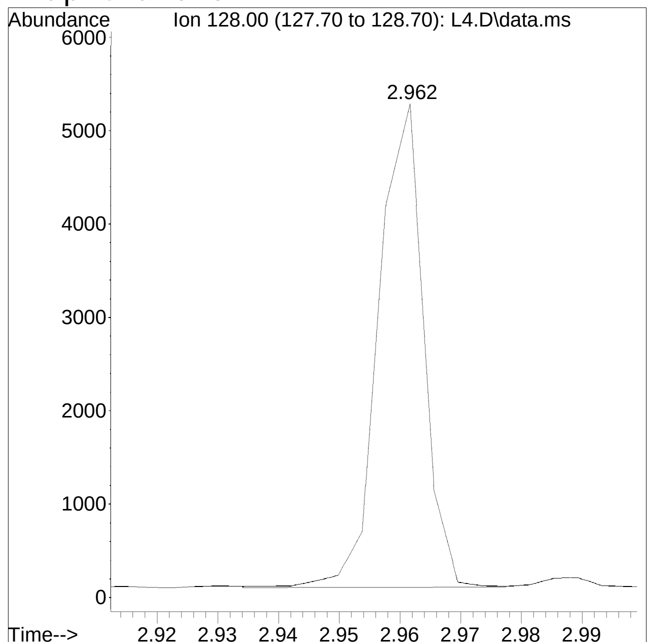


Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L4.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:29 pm Instrument : SV118
Sample : IL4,32,, #10892 10 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #9: Naphthalene



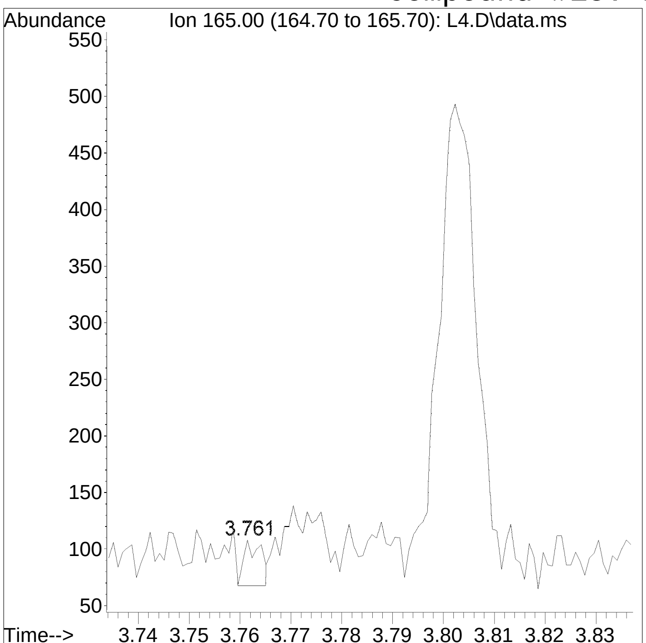



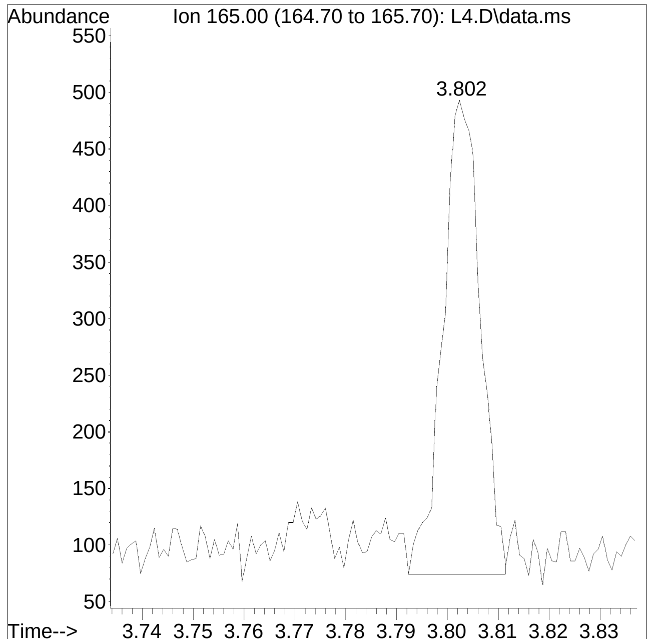

Original Peak Response = 2659 Manual Peak Response = 2659 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

```
Data Path    : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File    : L4.D                        Operator    : SV118:dv
Date Inj'd   : 10/25/2024  6:29 pm         Instrument  : SV118
Sample       : IL4,32,, #10892 10 ng/ml  Quant Date  : 12/4/2024 11:33 am
```

Compound #15: 2,6-Dinitrotoluene



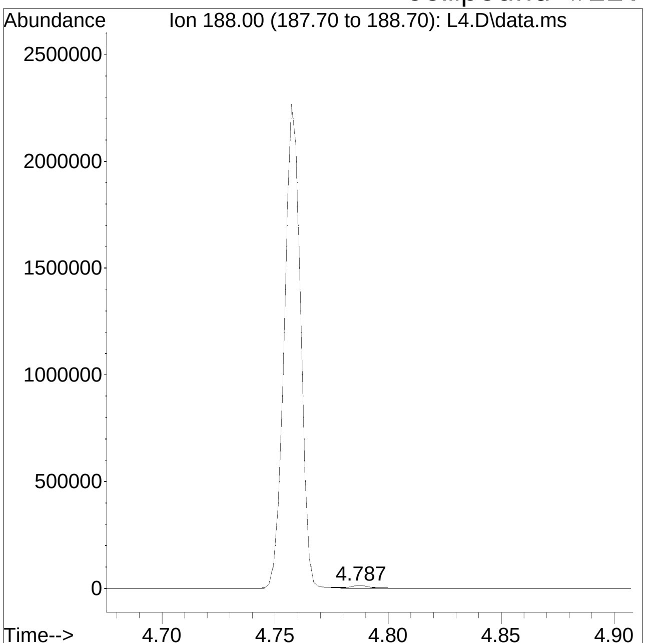

Original Peak Response = 9    Manual Peak Response = 217 M4

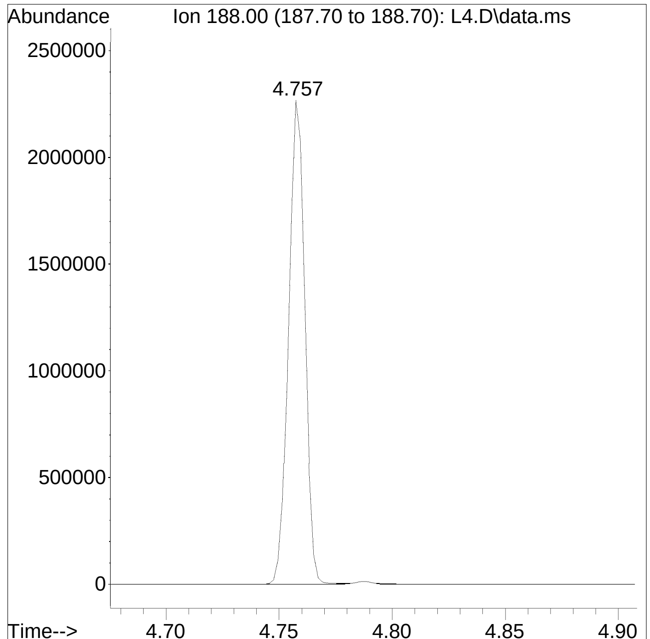
M4 = Poor automated baseline construction.

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L4.D                        Operator    : SV118:dv
Date Inj'd  : 10/25/2024  6:29 pm         Instrument  : SV118
Sample      : IL4,32,, #10892 10 ng/ml  Quant Date  : 12/4/2024 11:33 am
```

Compound #22: Phenanthrene-d10




Original Peak Response = 8248        Manual Peak Response = 1133012 M3

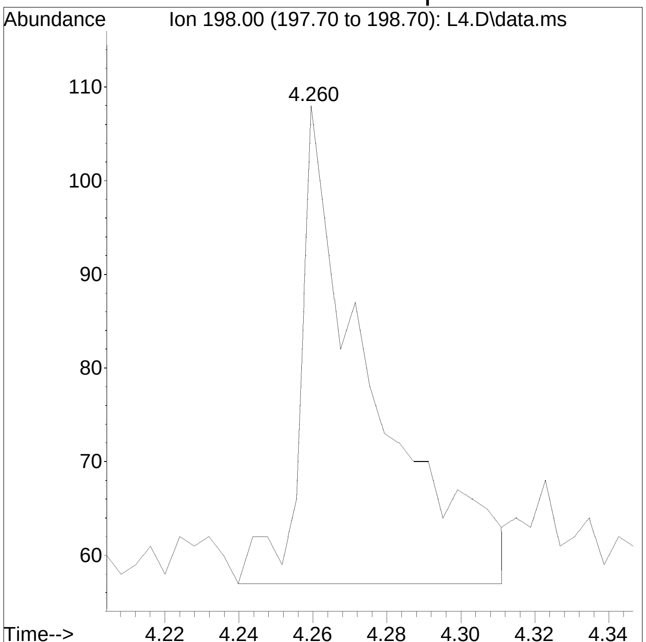
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

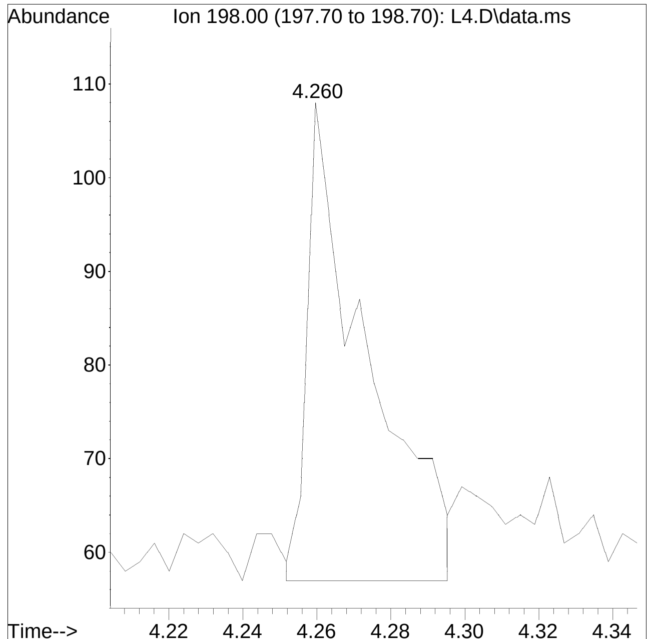
# Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410Q
Data File : L4.D
Date Inj'd : 10/25/2024 6:29 pm
Sample : IL4,32,, #10892 10 ng/ml

Method : SIM-RVT_241025sv118.M
Operator : SV118:dv
Instrument : SV118
Quant Date : 12/4/2024 11:33 am

Compound #23: 4,6-Dinitro-o-cresol



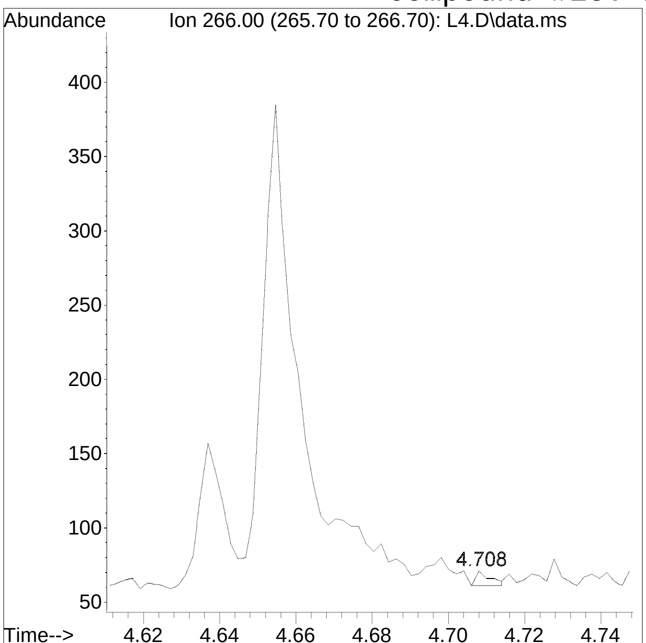

Original Peak Response = 67
Manual Peak Response = 56 M6

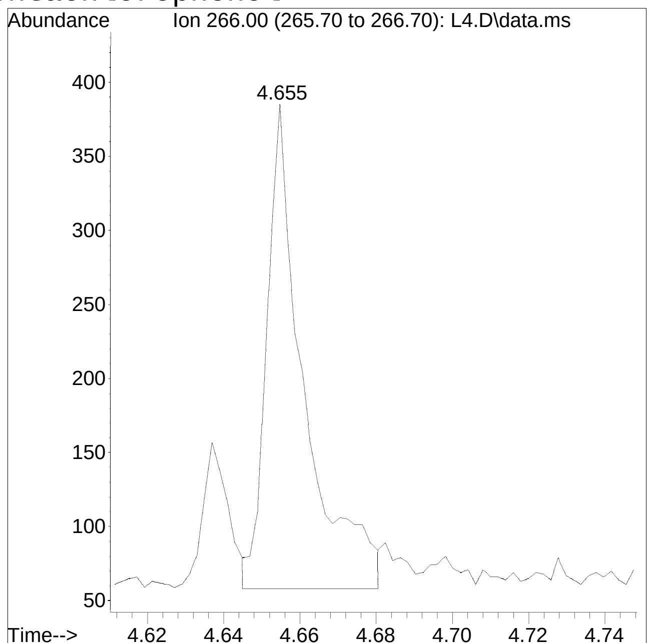
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

```
Data Path    : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File    : L4.D                        Operator    : SV118:dv
Date Inj'd   : 10/25/2024  6:29 pm         Instrument  : SV118
Sample       : IL4,32,, #10892 10 ng/ml  Quant Date  : 12/4/2024 11:33 am
```

Compound #25: Pentachlorophenol



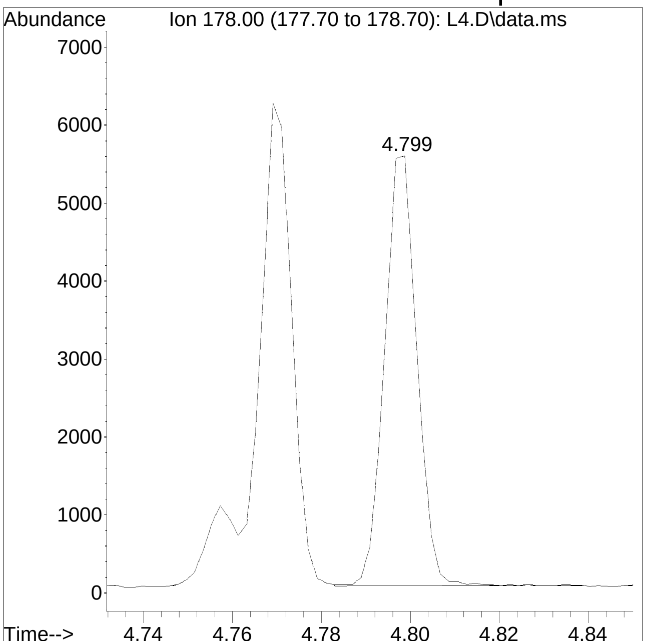

Original Peak Response = 3          Manual Peak Response = 220 M3

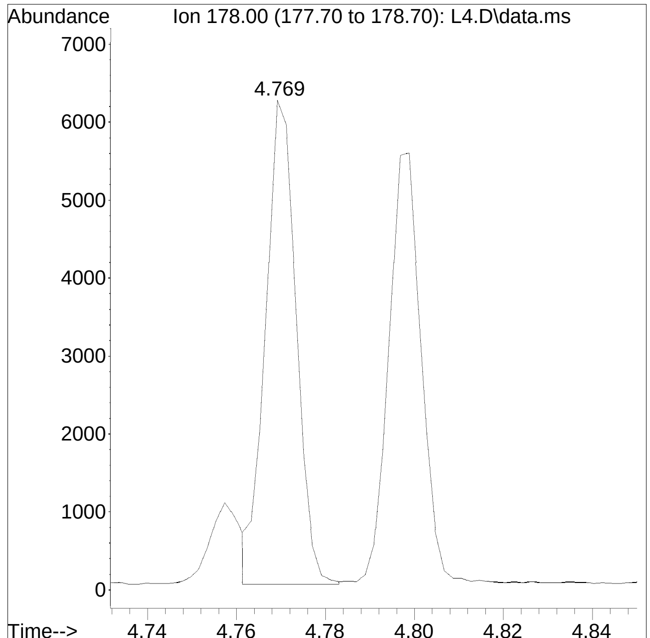
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L4.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:29 pm Instrument : SV118
Sample : IL4,32,, #10892 10 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #26: Phenanthrene



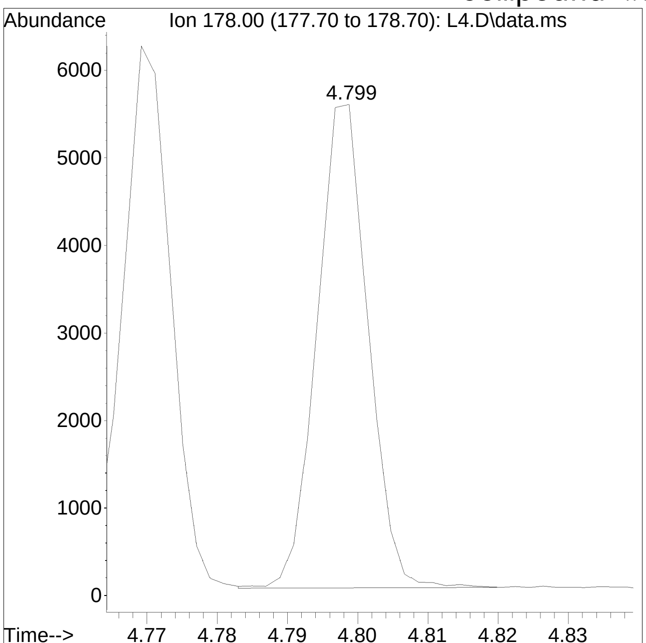



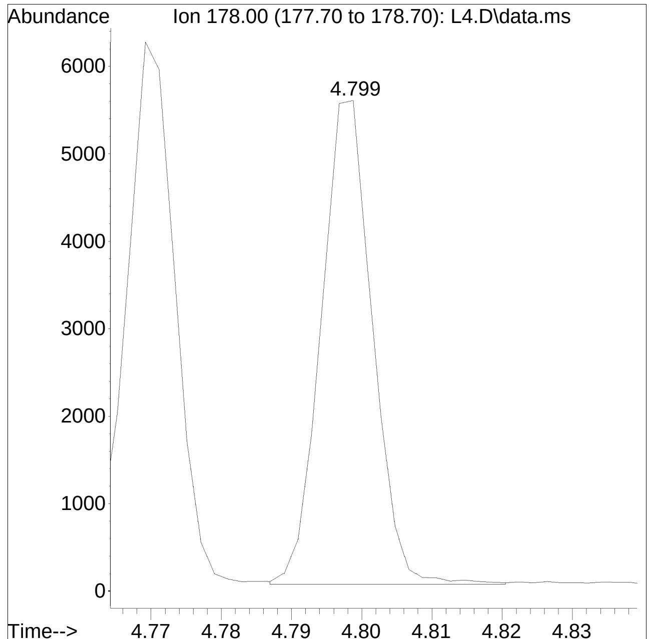

Original Peak Response = 2788 Manual Peak Response = 2970 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L4.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:29 pm Instrument : SV118
Sample : IL4,32,, #10892 10 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #27: Anthracene



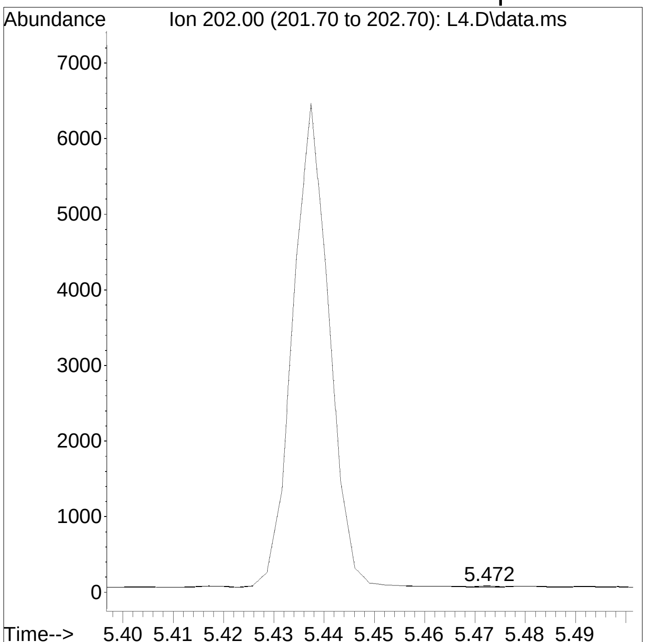



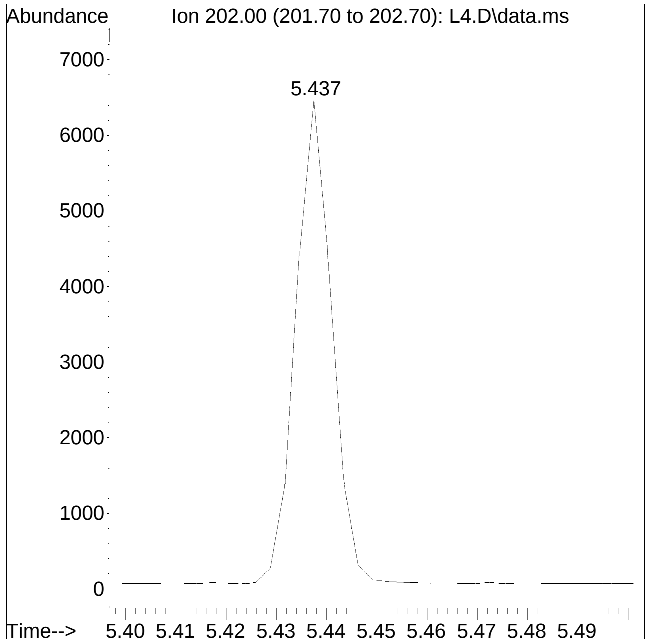

Original Peak Response = 2791 Manual Peak Response = 2813 M4
M4 = Poor automated baseline construction.

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod      : SIM-RVT_241025sv118.M
Data File   : L4.D                        Operator    : SV118:dv
Date Inj'd  : 10/25/2024  6:29 pm         Instrument  : SV118
Sample      : IL4,32,, #10892 10 ng/ml  Quant Date  : 12/4/2024 11:33 am
```

Compound #28: Fluoranthene



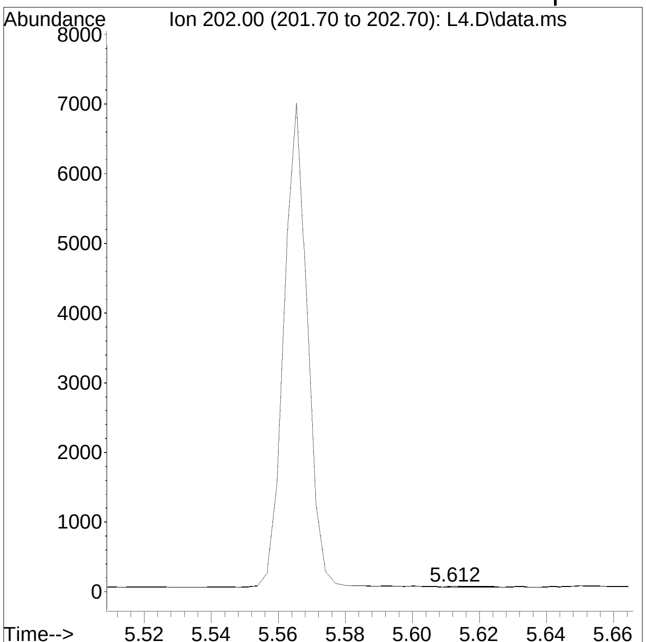

Original Peak Response = 4          Manual Peak Response = 3196 M3

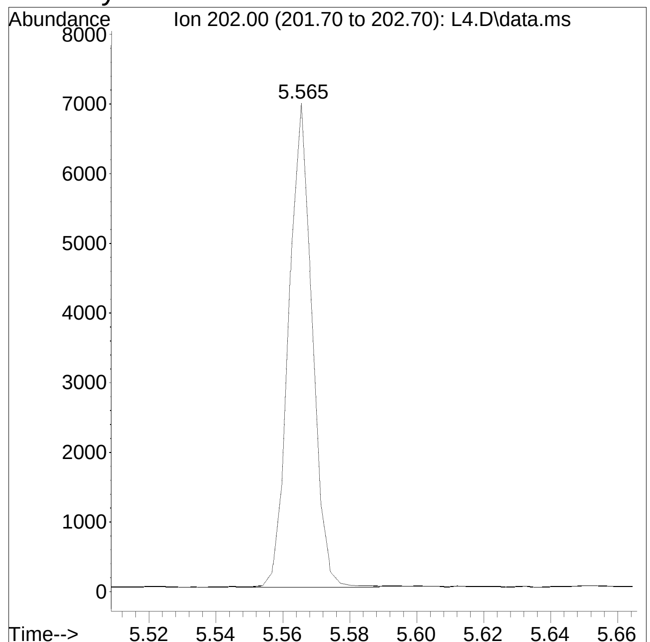
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L4.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:29 pm Instrument : SV118
Sample : IL4,32,, #10892 10 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #29: Pyrene



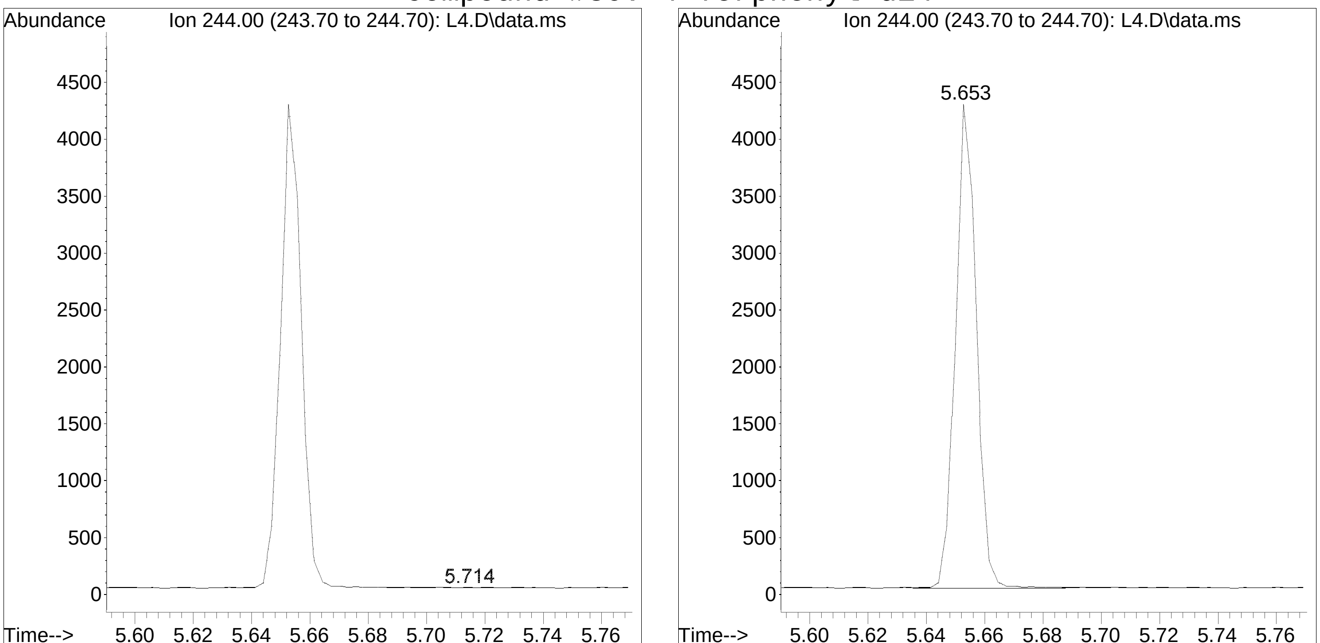

Original Peak Response = 8 Manual Peak Response = 3386 M3

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\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L4.D                          Operator    : SV118:dv
Date Inj'd  : 10/25/2024  6:29 pm           Instrument  : SV118
Sample      : IL4,32,, #10892 10 ng/ml      Quant Date  : 12/4/2024 11:33 am
```

Compound #30: 4-Terphenyl-d14



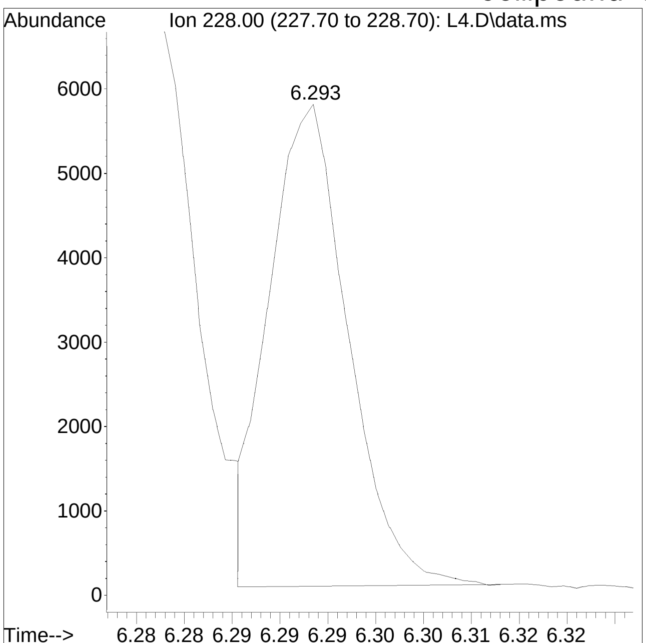

Original Peak Response = 1 Manual Peak Response = 2112 M3

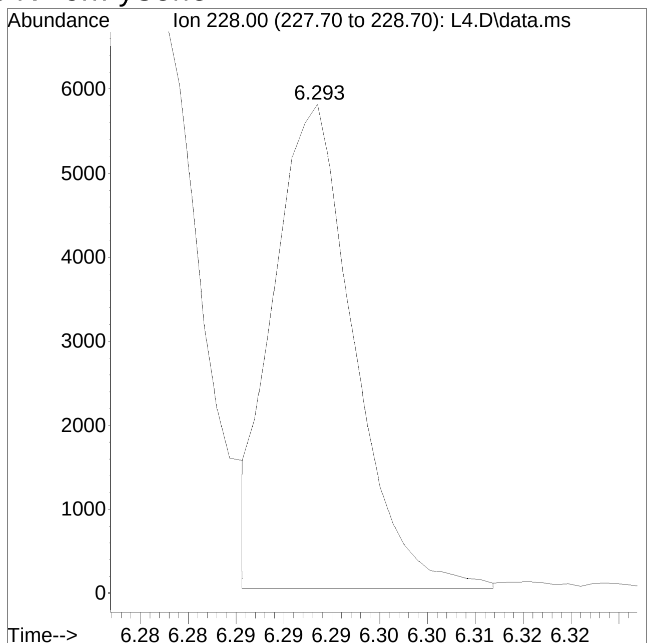
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L4.D                        Operator    : SV118:dv
Date Inj'd  : 10/25/2024  6:29 pm         Instrument  : SV118
Sample      : IL4,32,, #10892 10 ng/ml  Quant Date  : 12/4/2024 11:33 am
```

Compound #34: Chrysene



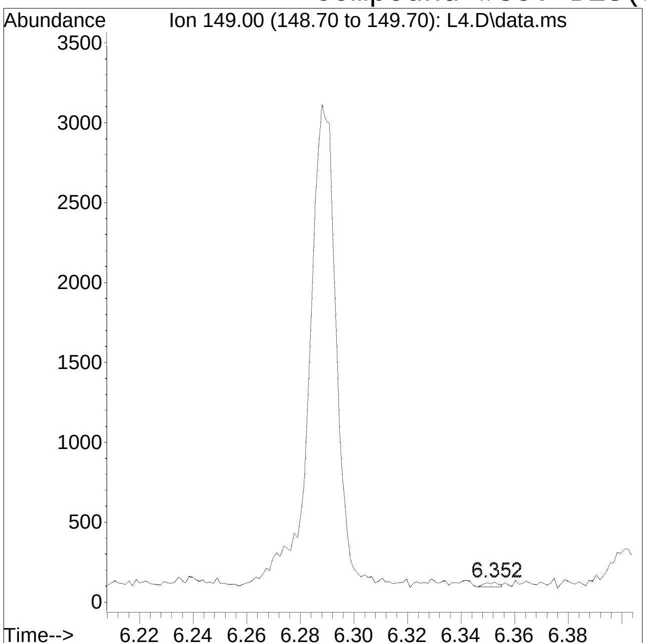

Original Peak Response = 3272          Manual Peak Response = 3361 M4

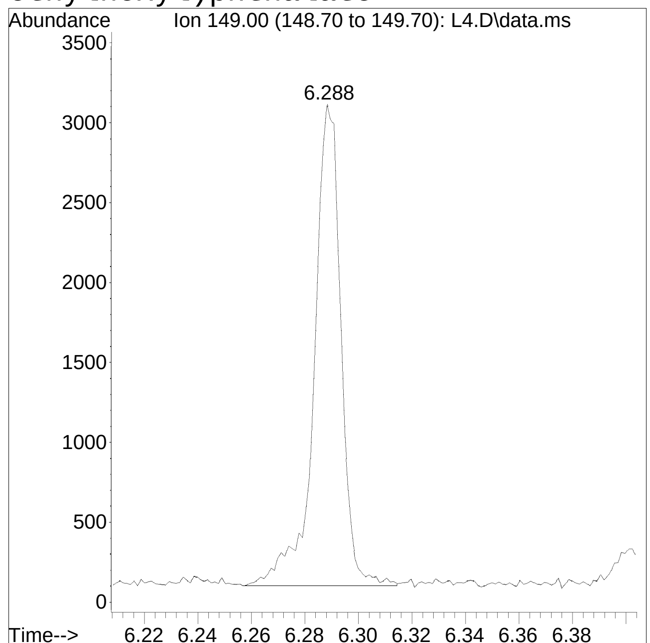
M4 = Poor automated baseline construction.

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L4.D                           Operator    : SV118:dv
Date Inj'd  : 10/25/2024  6:29 pm            Instrument  : SV118
Sample      : IL4,32,, #10892 10 ng/ml       Quant Date  : 12/4/2024 11:33 am
```

Compound #35: Bis(2-ethylhexyl)phthalate



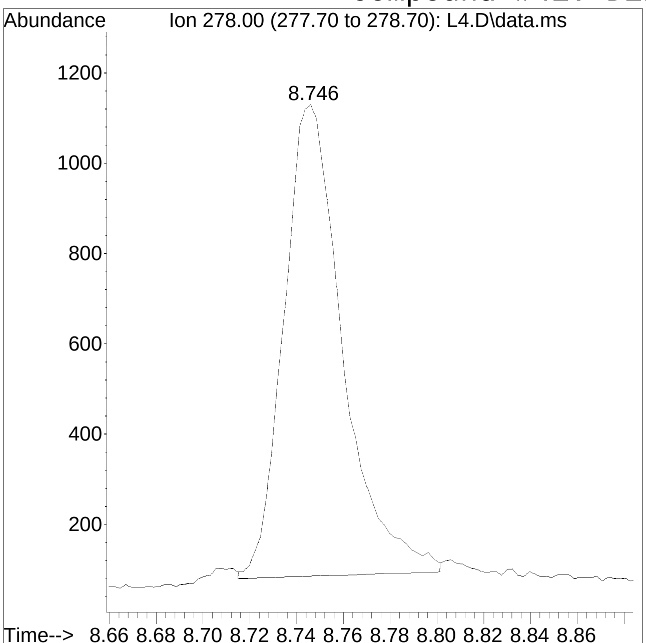

Original Peak Response = 11    Manual Peak Response = 2112 M6

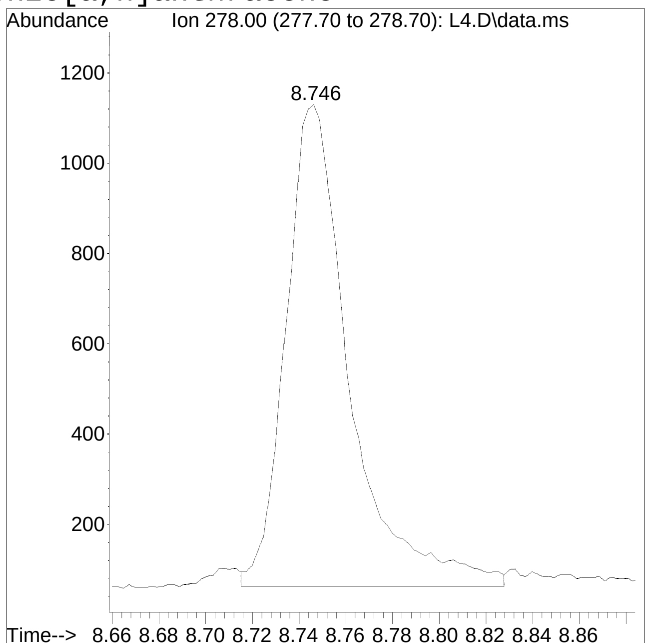
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L4.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:29 pm Instrument : SV118
Sample : IL4,32,, #10892 10 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 1830 Manual Peak Response = 2021 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\2024\241025RVTical\
Data File : L3.D
Acq On    : 25 Oct 2024  06:46 pm
Operator  : SV118:dv
Sample    : IL3,32,, #10893 5 ng/ml
Misc      : WG1990947,,ical
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Dec 04 11:32:15 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List     : Default - All compounds listed

       Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4      2.286  152    408539   4000.000 ng/ml    0.00
   Standard Area 1 = 429824                 Recovery   =   95.05%
 8) Naphthalene-d8              2.950  136   1470923   4000.000 ng/ml    0.00
   Standard Area 1 = 1574353                 Recovery   =   93.43%
17) Acenaphthene-d10            3.927  164    796441   4000.000 ng/ml    0.00
   Standard Area 1 = 863987                 Recovery   =   92.18%
22) Phenanthrene-d10            4.759  188   1650601M3  4000.000 ng/ml    0.00
   Standard Area 1 = 1755380                 Recovery   =   94.03%
31) Chrysene-d12                6.280  240   1720270   4000.000 ng/ml    0.00
   Standard Area 1 = 1692718                 Recovery   =  101.63%
36) Perylene-d12                7.491  264   1776982   4000.000 ng/ml    0.00
   Standard Area 1 = 1795203                 Recovery   =   98.99%

 System Monitoring Compounds
 2) 2-Fluorophenol              1.690  112       556     4.814 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.24%#
 3) Phenol-d6                   2.091   99       679     4.784 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.24%#
 7) Nitrobenzene-d5             2.566   82       414     4.518 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =    0.45%#
13) 2-Fluorobiphenyl            3.547  172      1387     4.904 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =    0.49%#
21) 2,4,6-Tribromophenol        4.366  330       169     4.605 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.23%#
30) 4-Terphenyl-d14             5.652  244      1666M3     4.933 ng/ml   0.00

   Spiked Amount   1000.000   Range  30 - 130    Recovery   =    0.49%#

 Target Compounds                                                 Qvalue
 4) Bis(2-chloroethyl)ether     2.149   93        655      2.976 ng/ml     94
 5) n-nitrosodi-n-propylamine   2.487   70        432      4.813 ng/ml     97
 6) Hexachloroethane            2.546  117        262      5.112 ng/ml     82
 9) Naphthalene                 2.962  128       2003M7    5.173 ng/ml
10) Hexachlorobutadiene         3.037  225        354      5.151 ng/ml     99
11) 2-Methylnaphthalene         3.343  142       1228      4.951 ng/ml     97
12) 1-Methylnaphthalene         3.397  142       1145      4.962 ng/ml     98
14) 2-Chloronaphthalene         3.612  162       1239      4.978 ng/ml#    85
15) 2,6-Dinitrotoluene          3.805  165        178M4    5.283 ng/ml
16) Acenaphthylene              3.846  152       1751      4.752 ng/ml     98
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L3.D
Acq On : 25 Oct 2024 06:46 pm
Operator : SV118:dv
Sample : IL3,32,, #10893 5 ng/ml
Misc : WG1990947,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 04 11:32:15 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 18) Acenaphthene | 3.945 | 153 | 1330 | 5.108 ng/ml | 95 |
| 19) 2,4-Dinitrotoluene | 4.032 | 165 | 158M4 | 28.115 ng/ml | |
| 20) Fluorene | 4.232 | 166 | 1333 | 4.806 ng/ml | 94 |
| 23) 4,6-Dinitro-o-cresol | 0.000 | | 0 | N.D. d | |
| 24) Hexachlorobenzene | 4.546 | 284 | 532M3 | 4.895 ng/ml | |
| 25) Pentachlorophenol | 4.654 | 266 | 192M6 | 4.750 ng/ml | |
| 26) Phenanthrene | 4.771 | 178 | 2289M3 | 5.108 ng/ml | |
| 27) Anthracene | 4.798 | 178 | 2178 | 4.953 ng/ml | 98 |
| 28) Fluoranthene | 5.437 | 202 | 2444M3 | 4.873 ng/ml | |
| 29) Pyrene | 5.565 | 202 | 2611M3 | 4.900 ng/ml | |
| 32) Benzo[a]anthracene | 6.273 | 226 | 1172 | 6.957 ng/ml# | 1 |
| 33) 3,3'-Dichlorobenzidine | 6.251 | 252 | 693 | 3.859 ng/ml# | 89 |
| 34) Chrysene | 6.294 | 228 | 2695 | 5.193 ng/ml# | 97 |
| 35) Bis(2-ethylhexyl)phtha... | 6.289 | 149 | 1737M3 | 5.804 ng/ml | |
| 37) Benzo[b]fluoranthene | 7.108 | 252 | 2126 | 4.641 ng/ml | 100 |
| 38) Benzo[k]fluoranthene | 7.134 | 252 | 2218 | 4.566 ng/ml | 99 |
| 39) Benzo[a]pyrene | 7.422 | 252 | 1767 | 4.366 ng/ml | 99 |
| 40) Indeno[1,2,3-cd]pyrene | 8.711 | 276 | 1526 | 4.044 ng/ml# | 84 |
| 41) Dibenzo[a,h]anthracene | 8.745 | 278 | 1460M6 | 3.801 ng/ml | |
| 42) Benzo[g,h,i]perylene | 9.051 | 276 | 1734 | 4.384 ng/ml# | 88 |

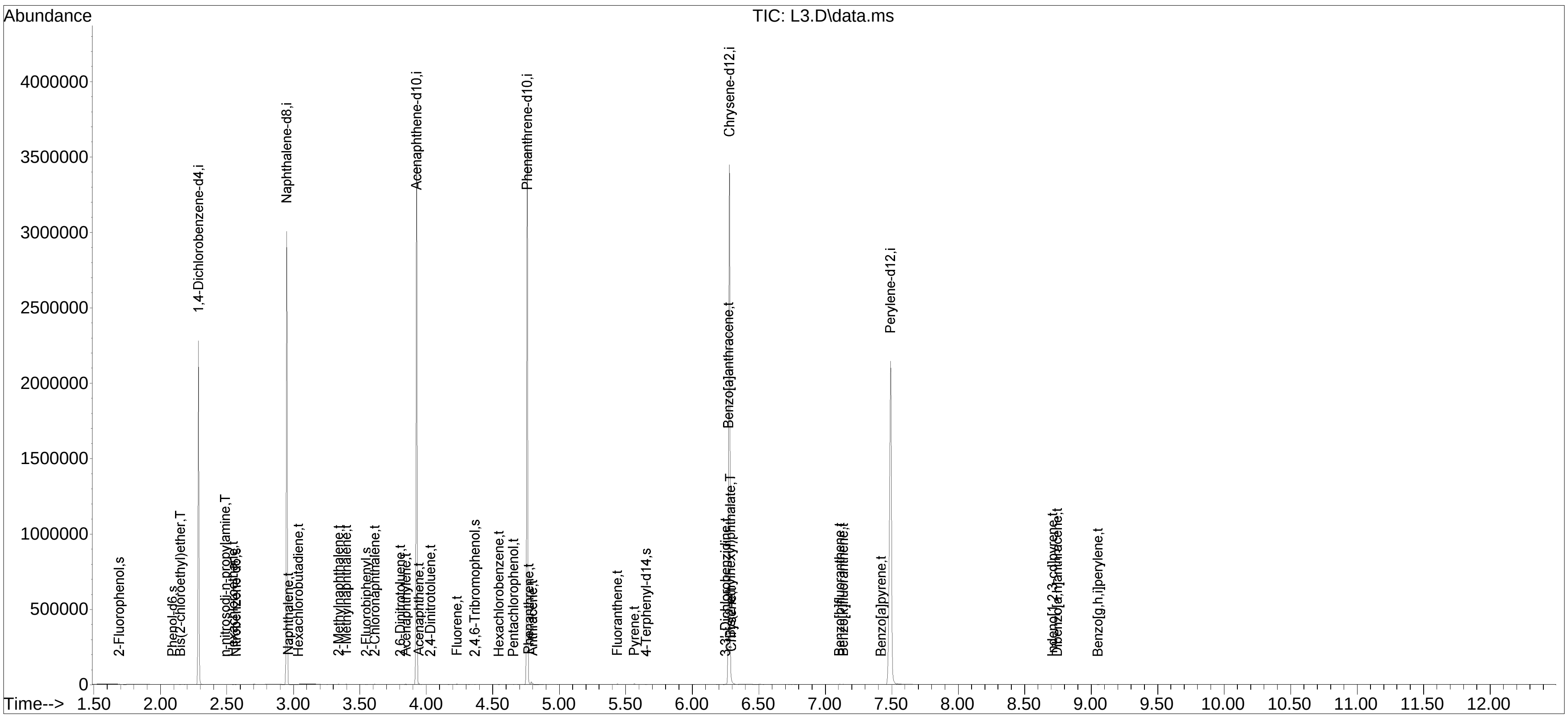
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L3.D
Acq On : 25 Oct 2024 06:46 pm
Operator : SV118:dv
Sample : IL3,32,, #10893 5 ng/ml
Misc : WG1990947,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 04 11:32:15 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:47 2024
Response via : Initial Calibration

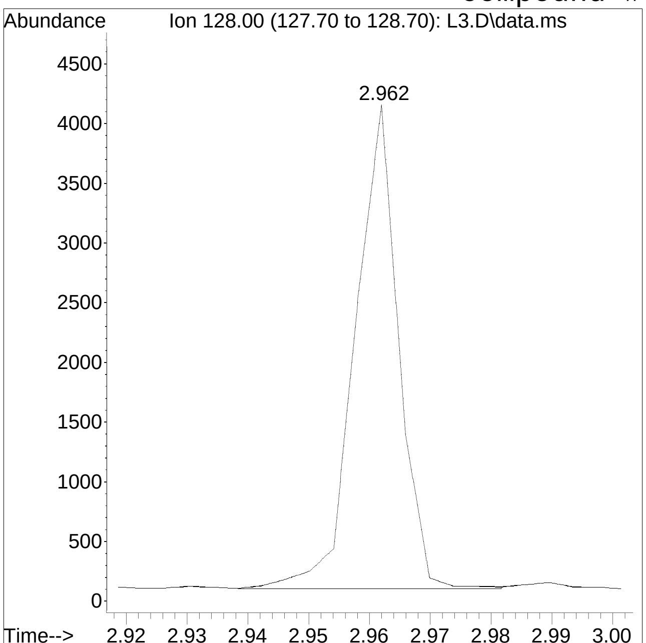
Sub List : Default - All compounds listedical\L8.D•

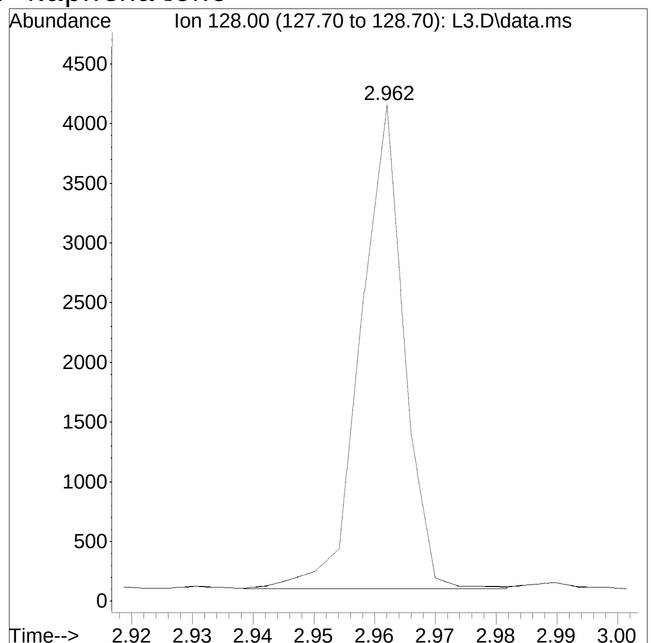


Manual Integration Report

```
Data Path    : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File    : L3.D                        Operator     : SV118:dv
Date Inj'd   : 10/25/2024  6:46 pm         Instrument   : SV118
Sample       : IL3,32,, #10893 5 ng/ml     Quant Date   : 12/4/2024 11:33 am
```

Compound #9: Naphthalene



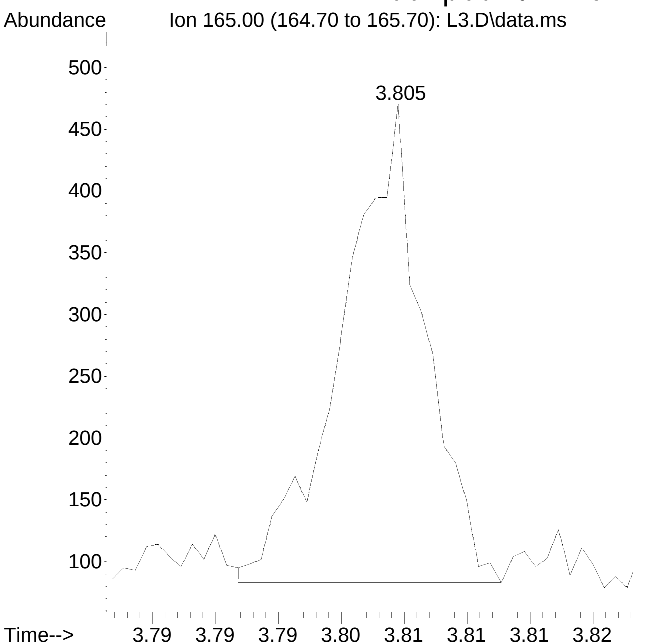

Original Peak Response = 2003        Manual Peak Response = 2003 M7

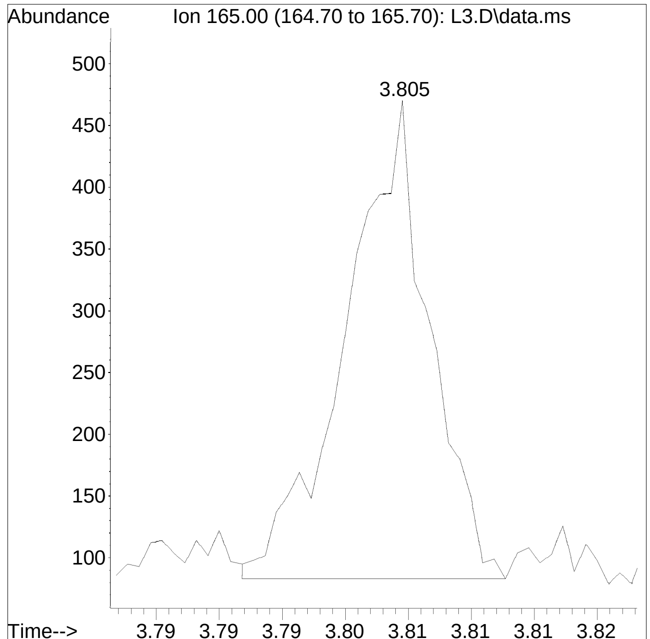
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

```
Data Path    : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File    : L3.D                       Operator    : SV118:dv
Date Inj'd   : 10/25/2024  6:46 pm        Instrument  : SV118
Sample       : IL3,32,, #10893 5 ng/ml    Quant Date  : 12/4/2024 11:33 am
```

Compound #15: 2,6-Dinitrotoluene



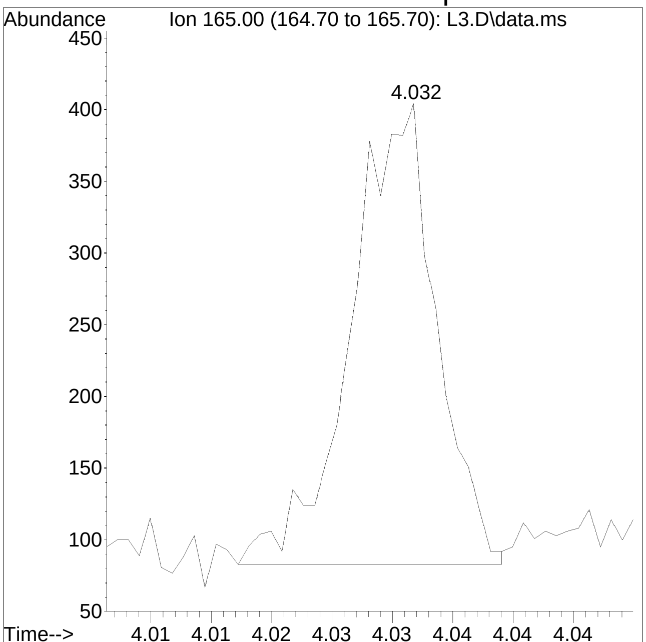

Original Peak Response = 178          Manual Peak Response = 178 M4

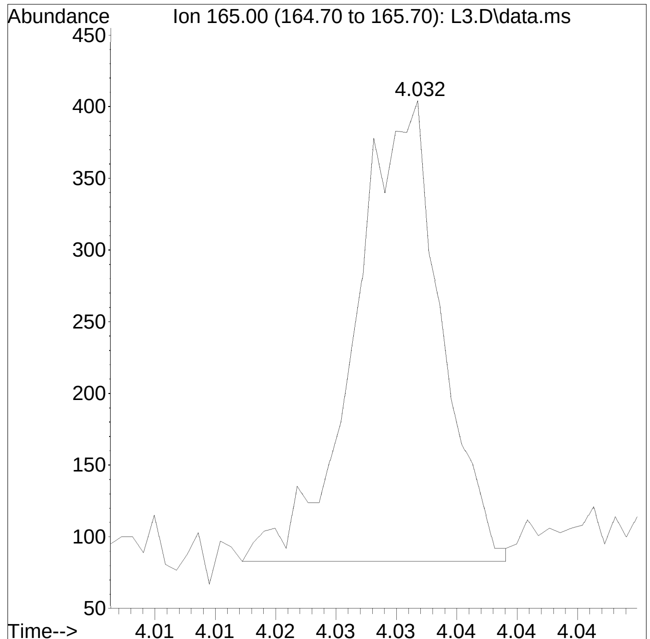
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L3.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:46 pm Instrument : SV118
Sample : IL3,32,, #10893 5 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #19: 2,4-Dinitrotoluene



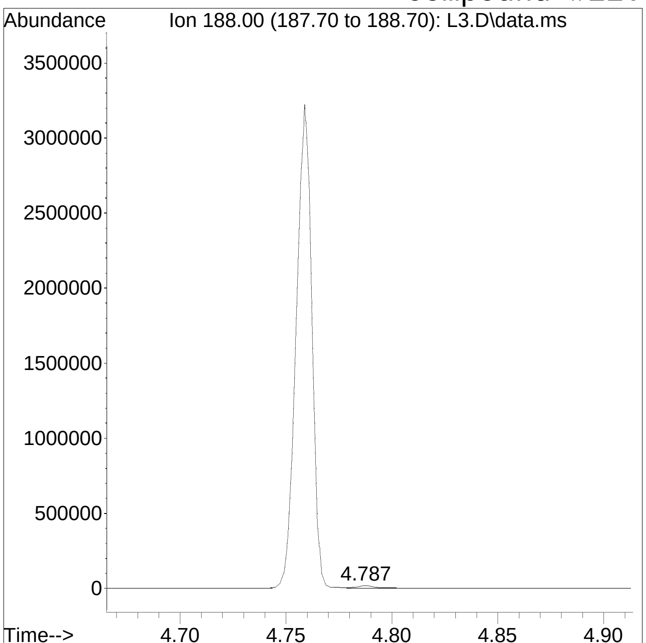



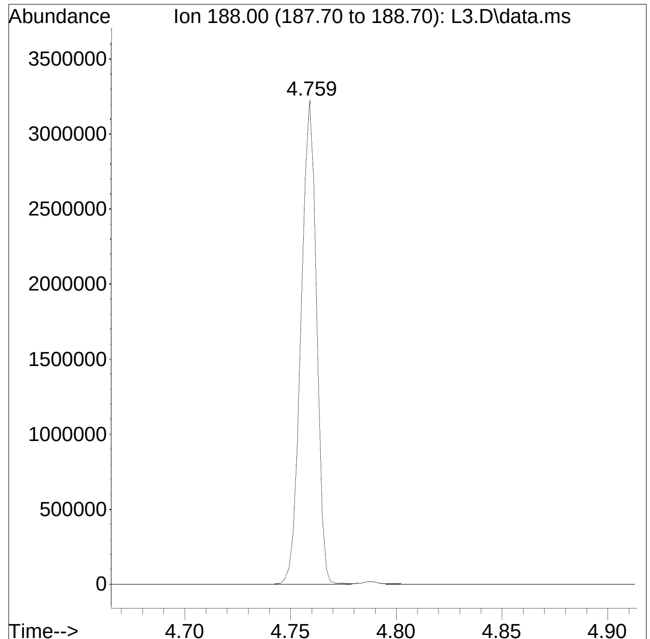

Original Peak Response = 158 Manual Peak Response = 158 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L3.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:46 pm Instrument : SV118
Sample : IL3,32,, #10893 5 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #22: Phenanthrene-d10



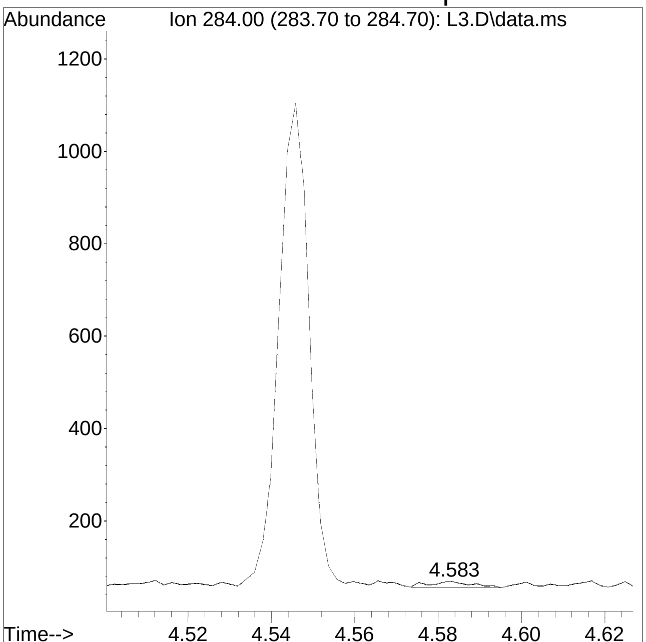

Original Peak Response = 12488 Manual Peak Response = 1650601 M3

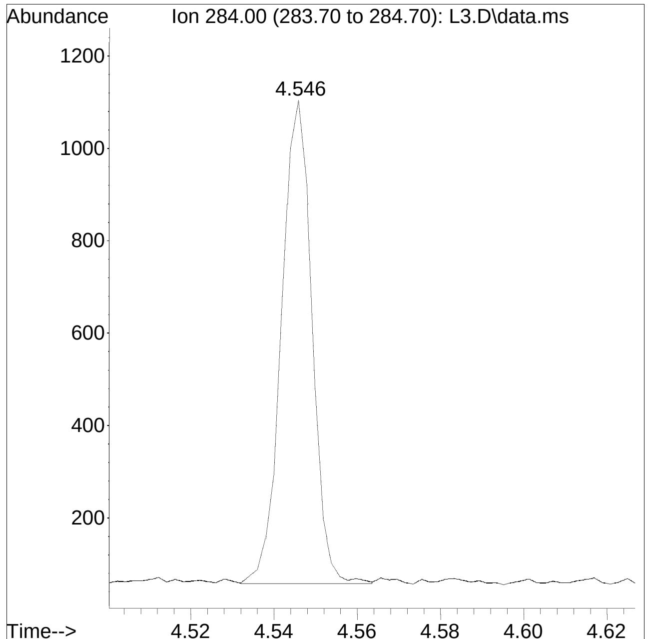
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L3.D                      Operator    : SV118:dv
Date Inj'd  : 10/25/2024  6:46 pm       Instrument  : SV118
Sample      : IL3,32,, #10893 5 ng/ml   Quant Date  : 12/4/2024 11:33 am
```

Compound #24: Hexachlorobenzene



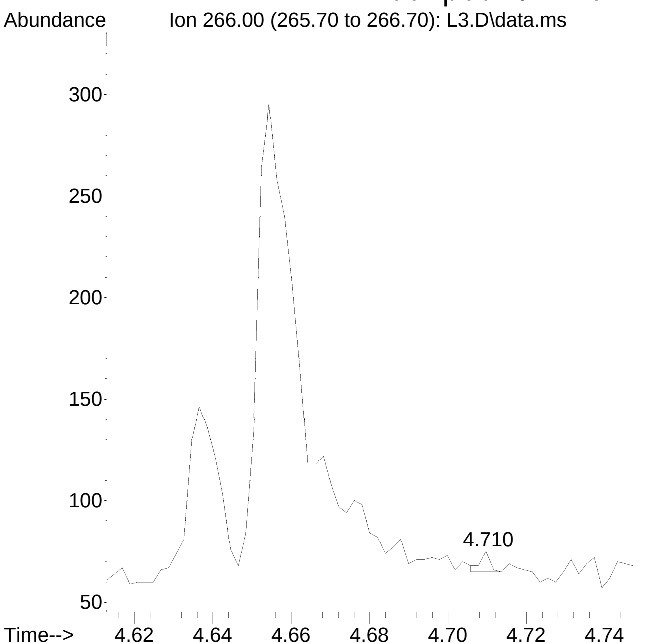

Original Peak Response = 9          Manual Peak Response = 532 M3

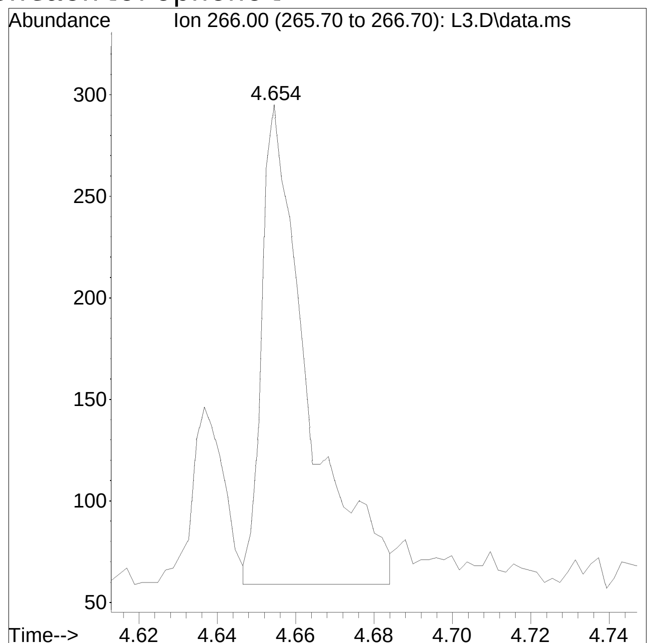
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L3.D                       Operator    : SV118:dv
Date Inj'd  : 10/25/2024  6:46 pm        Instrument  : SV118
Sample      : IL3,32,, #10893 5 ng/ml    Quant Date  : 12/4/2024 11:33 am
```

Compound #25: Pentachlorophenol



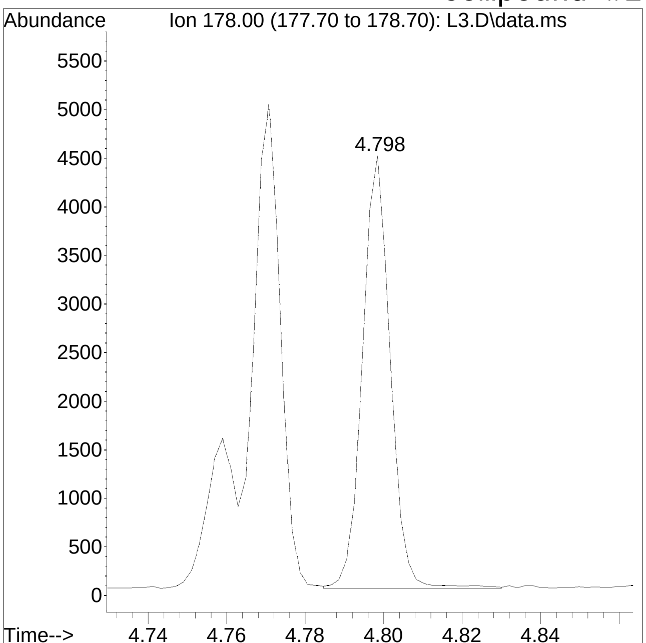

Original Peak Response = 2 Manual Peak Response = 192 M6

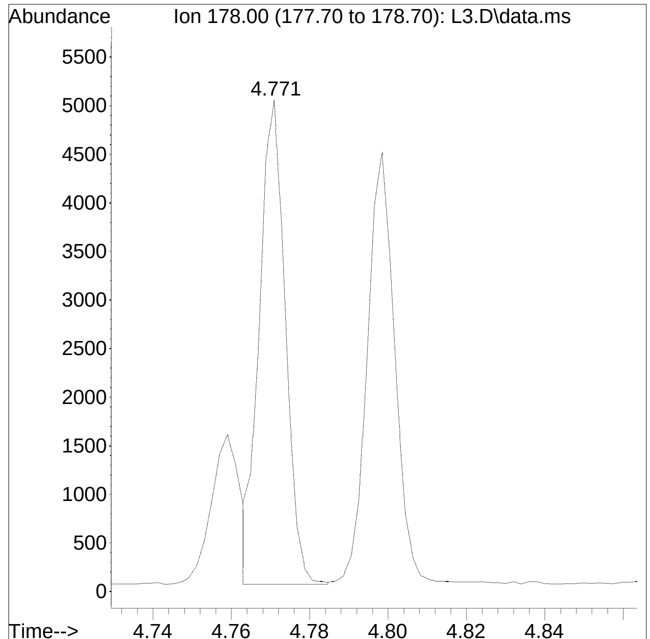
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

# Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L3.D                       Operator    : SV118:dv
Date Inj'd  : 10/25/2024  6:46 pm        Instrument  : SV118
Sample      : IL3,32,, #10893 5 ng/ml    Quant Date  : 12/4/2024 11:33 am
```

Compound #26: Phenanthrene



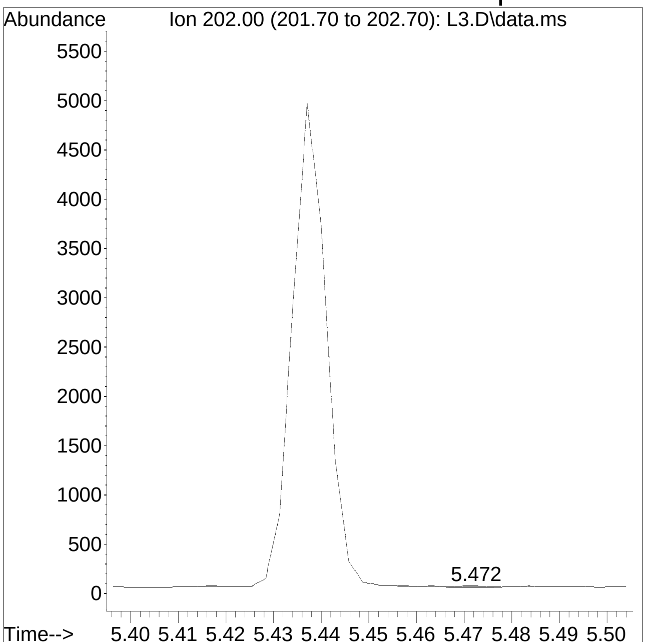

Original Peak Response = 2190        Manual Peak Response = 2289 M3

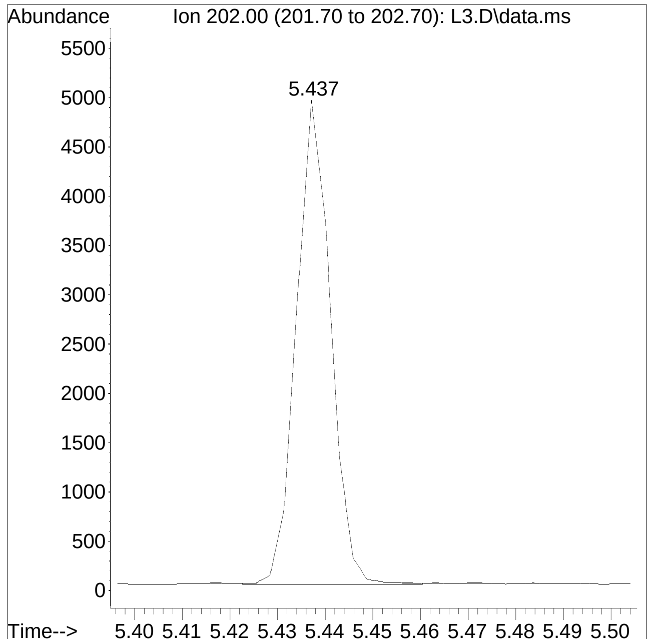
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L3.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:46 pm Instrument : SV118
Sample : IL3,32,, #10893 5 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #28: Fluoranthene




Original Peak Response = 6 Manual Peak Response = 2444 M3

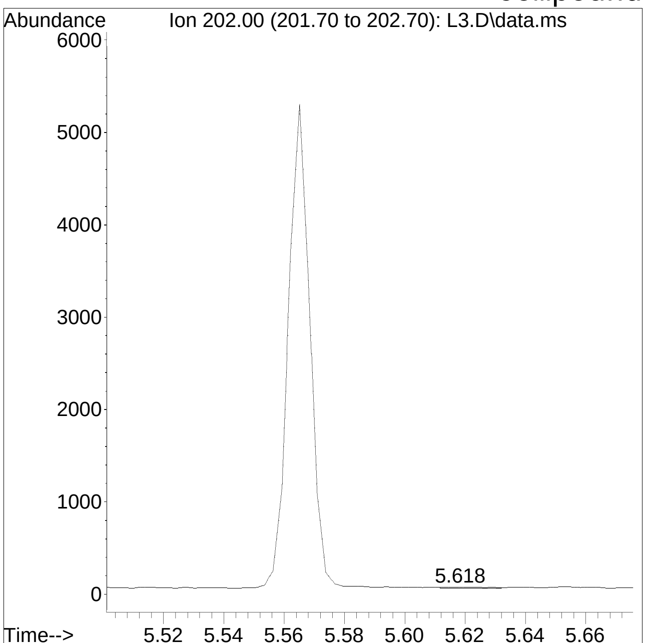
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

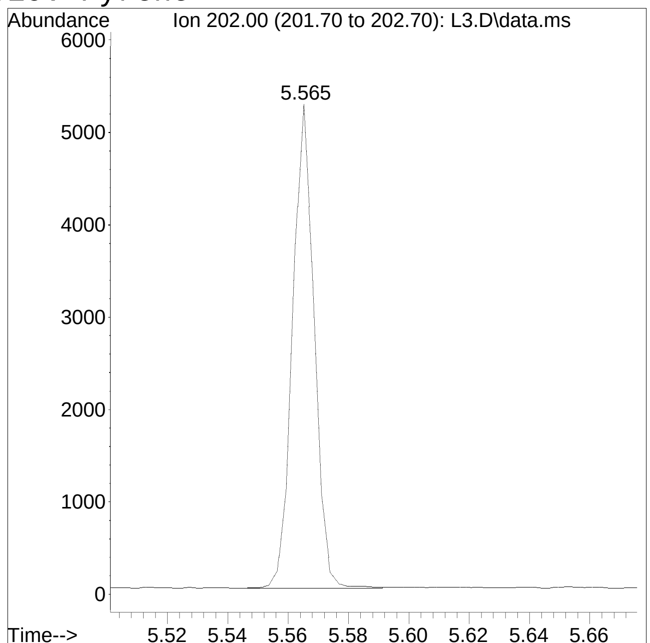
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410Q
Data File : L3.D
Date Inj'd : 10/25/2024 6:46 pm
Sample : IL3,32,, #10893 5 ng/ml

Method : SIM-RVT_241025sv118.M
Operator : SV118:dv
Instrument : SV118
Quant Date : 12/4/2024 11:33 am

Compound #29: Pyrene




Original Peak Response = 10

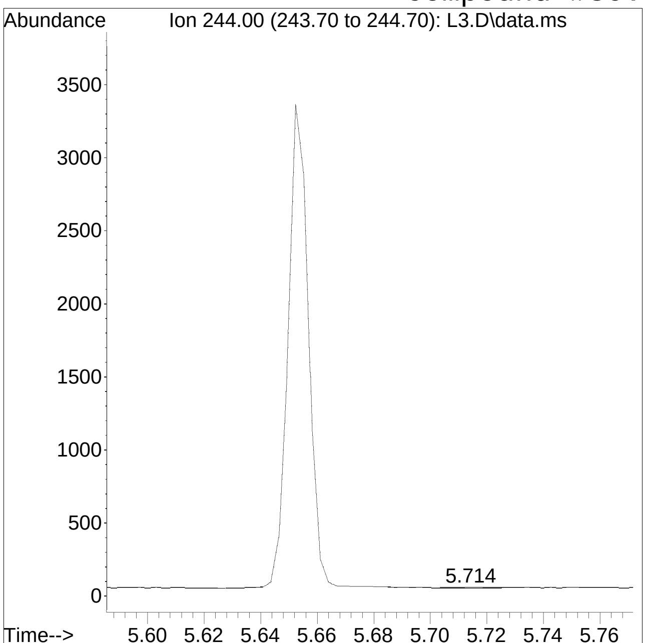
Manual Peak Response = 2611 M3

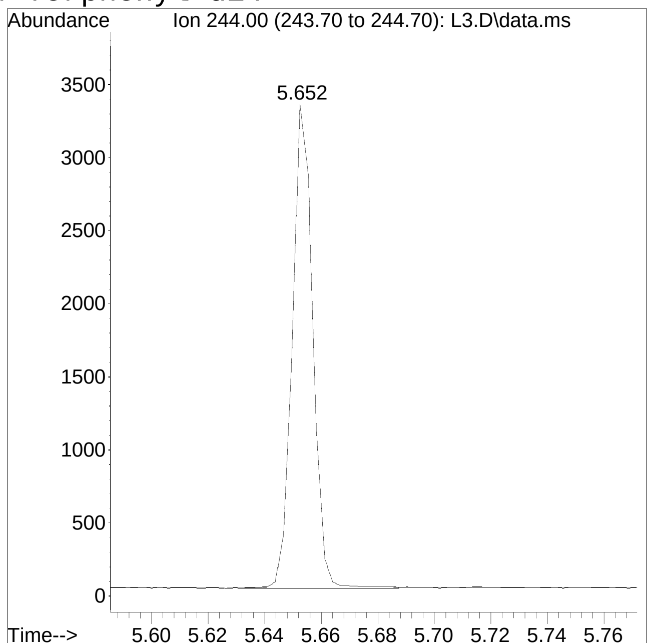
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L3.D                      Operator    : SV118:dv
Date Inj'd  : 10/25/2024  6:46 pm       Instrument  : SV118
Sample      : IL3,32,, #10893 5 ng/ml   Quant Date  : 12/4/2024 11:33 am
```

Compound #30: 4-Terphenyl-d14




Original Peak Response = 6 Manual Peak Response = 1666 M3

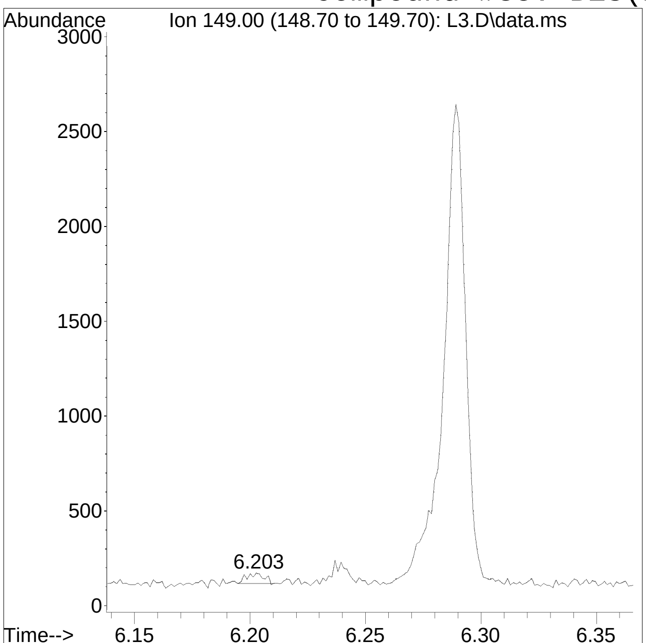
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

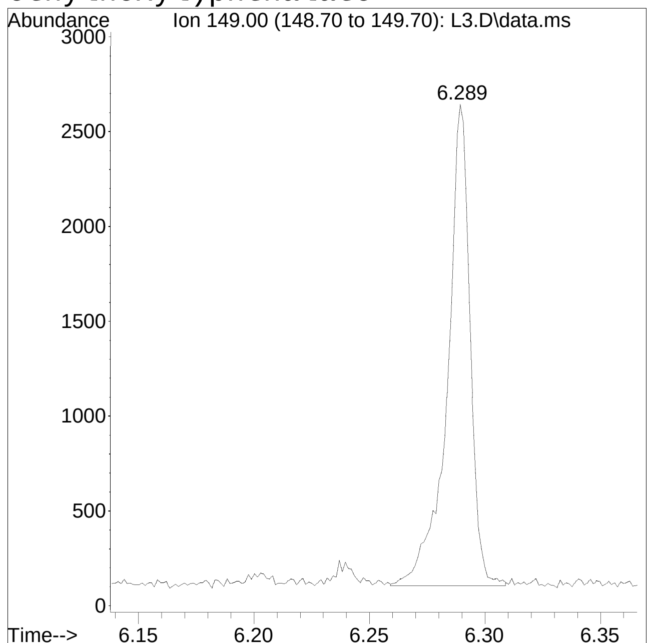
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410Q
Data File : L3.D
Date Inj'd : 10/25/2024 6:46 pm
Sample : IL3,32,, #10893 5 ng/ml

Method : SIM-RVT_241025sv118.M
Operator : SV118:dv
Instrument : SV118
Quant Date : 12/4/2024 11:33 am

Compound #35: Bis(2-ethylhexyl)phthalate




Original Peak Response = 28

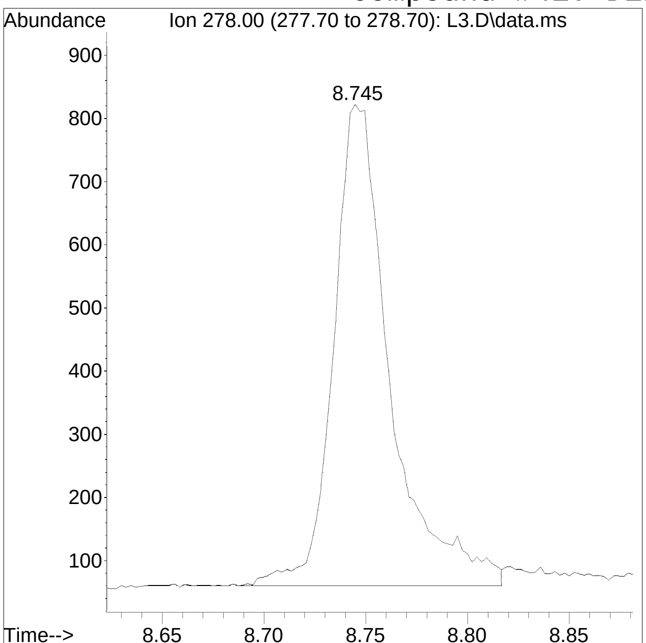
Manual Peak Response = 1737 M3

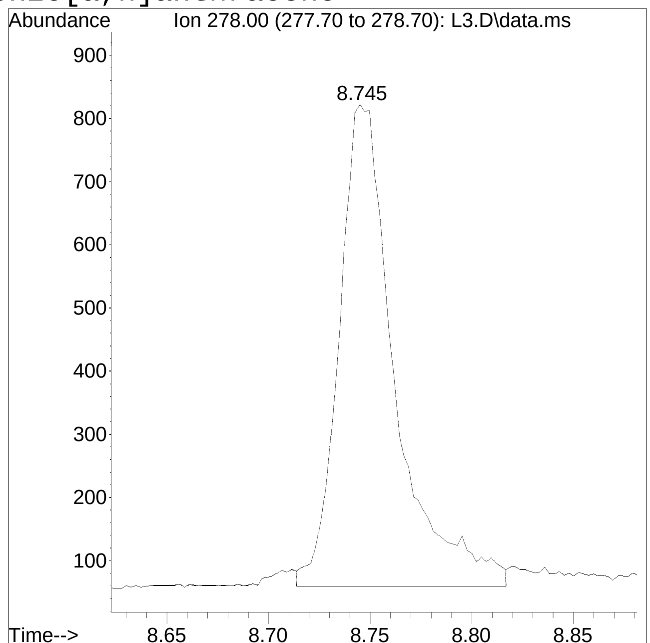
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L3.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:46 pm Instrument : SV118
Sample : IL3,32,, #10893 5 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 1478 Manual Peak Response = 1460 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L2.D
Acq On    : 25 Oct 2024  07:03 pm
Operator  : SV118:dv
Sample    : IL2,32,, #10900 2 ng/ml
Misc      : WG1990947,,ical
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Dec 04 11:40:22 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List     : Default - All compounds listed

        Compound                    R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4      2.286  152    394951   4000.000 ng/ml    0.00
   Standard Area 1 = 429824               Recovery   =   91.89%
 8) Naphthalene-d8              2.950  136   1417787   4000.000 ng/ml    0.00
   Standard Area 1 = 1574353               Recovery   =   90.06%
17) Acenaphthene-d10            3.928  164    767792   4000.000 ng/ml    0.00
   Standard Area 1 = 863987               Recovery   =   88.87%
22) Phenanthrene-d10            4.759  188   1610327M3  4000.000 ng/ml    0.00
   Standard Area 1 = 1755380               Recovery   =   91.74%
31) Chrysene-d12                6.280  240   1666522   4000.000 ng/ml    0.00
   Standard Area 1 = 1692718               Recovery   =   98.45%
36) Perylene-d12                7.493  264   1696213   4000.000 ng/ml    0.00
   Standard Area 1 = 1795203               Recovery   =   94.49%

 System Monitoring Compounds
 2) 2-Fluorophenol              1.690  112       232     2.078 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.10%#
 3) Phenol-d6                   2.091   99       298     2.172 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.11%#
 7) Nitrobenzene-d5             2.566   82       171     1.930 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =    0.19%#
13) 2-Fluorobiphenyl            3.550  172       574     2.106 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =    0.21%#
21) 2,4,6-Tribromophenol        4.366  330        75     2.120 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.11%#
30) 4-Terphenyl-d14             5.655  244       693M3     2.103 ng/ml   0.00

   Spiked Amount   1000.000   Range  30 - 130    Recovery   =    0.21%#

 Target Compounds                                                    Qvalue
 4) Bis(2-chloroethyl)ether     2.149   93        625      2.906 ng/ml#    47
 5) n-nitrosodi-n-propylamine   2.487   70        192      2.212 ng/ml#    89
 6) Hexachloroethane            2.546  117        120      2.422 ng/ml#    76
 9) Naphthalene                 2.962  128        788M4    2.111 ng/ml
10) Hexachlorobutadiene         3.037  225        142M6    2.144 ng/ml
11) 2-Methylnaphthalene         3.343  142        505      2.113 ng/ml     96
12) 1-Methylnaphthalene         3.397  142        479      2.154 ng/ml     94
14) 2-Chloronaphthalene         3.612  162        503M3    2.096 ng/ml
15) 2,6-Dinitrotoluene          0.000                0       N.D. d
16) Acenaphthylene              3.846  152        721      2.030 ng/ml     94
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L2.D
Acq On : 25 Oct 2024 07:03 pm
Operator : SV118:dv
Sample : IL2,32,, #10900 2 ng/ml
Misc : WG1990947,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 04 11:40:22 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 18) Acenaphthene | 3.945 | 153 | 531 | 2.116 ng/ml | 98 |
| 19) 2,4-Dinitrotoluene | 0.000 | | 0 | N.D. d | |
| 20) Fluorene | 4.232 | 166 | 568 | 2.124 ng/ml | 89 |
| 23) 4,6-Dinitro-o-cresol | 0.000 | | 0 | N.D. d | |
| 24) Hexachlorobenzene | 4.546 | 284 | 234 | 2.207 ng/ml | 96 |
| 25) Pentachlorophenol | 0.000 | | 0 | N.D. d | |
| 26) Phenanthrene | 4.771 | 178 | 966M3 | 2.210 ng/ml | |
| 27) Anthracene | 4.798 | 178 | 889 | 2.072 ng/ml | 94 |
| 28) Fluoranthene | 5.437 | 202 | 1049M3 | 2.144 ng/ml | |
| 29) Pyrene | 5.565 | 202 | 1129 | 2.172 ng/ml | 100 |
| 32) Benzo[a]anthracene | 6.276 | 226 | 714 | 4.375 ng/ml# | 1 |
| 33) 3,3'-Dichlorobenzidine | 0.000 | | 0 | N.D. d | |
| 34) Chrysene | 6.293 | 228 | 971 | 1.931 ng/ml# | 95 |
| 35) Bis(2-ethylhexyl)phtha... | 6.289 | 149 | 1370M3 | 4.726 ng/ml | |
| 37) Benzo[b]fluoranthene | 7.110 | 252 | 858 | 1.962 ng/ml | 97 |
| 38) Benzo[k]fluoranthene | 7.134 | 252 | 908M4 | 1.958 ng/ml | |
| 39) Benzo[a]pyrene | 7.422 | 252 | 700 | 1.812 ng/ml | 98 |
| 40) Indeno[1,2,3-cd]pyrene | 8.711 | 276 | 582 | 1.616 ng/ml# | 72 |
| 41) Dibenzo[a,h]anthracene | 8.747 | 278 | 582M4 | 1.587 ng/ml | |
| 42) Benzo[g,h,i]perylene | 9.054 | 276 | 665 | 1.761 ng/ml# | 84 |

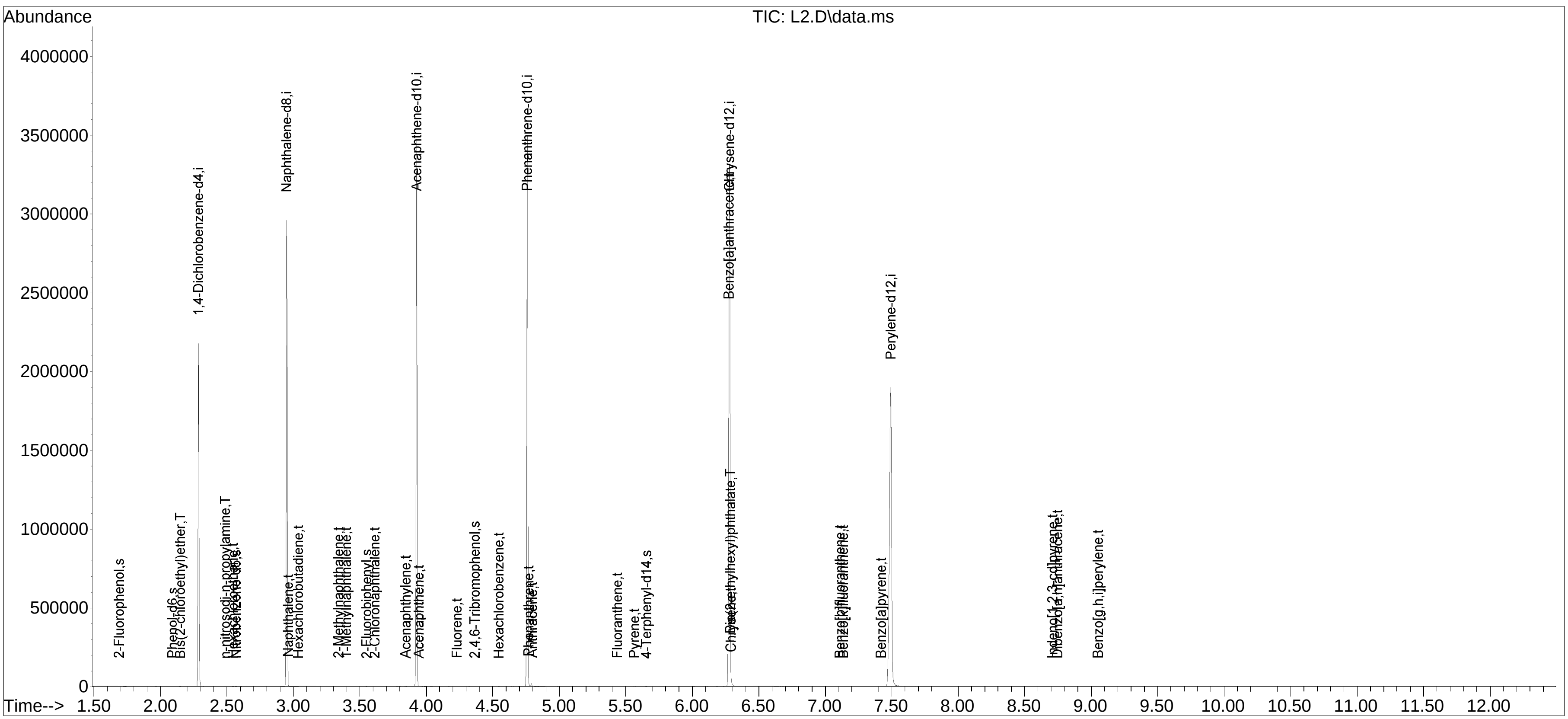
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L2.D
Acq On    : 25 Oct 2024  07:03 pm
Operator  : SV118:dv
Sample    : IL2,32,, #10900 2 ng/ml
Misc      : WG1990947,,ical
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Dec 04 11:40:22 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:39 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listedical\L8.D•

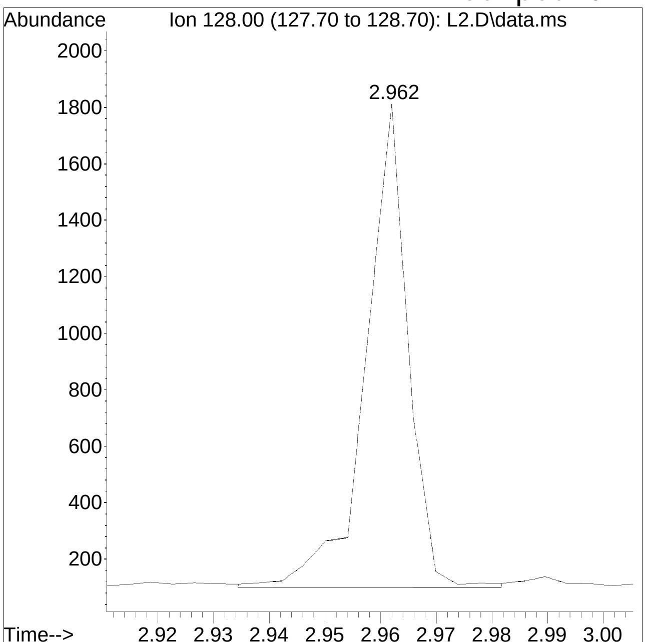


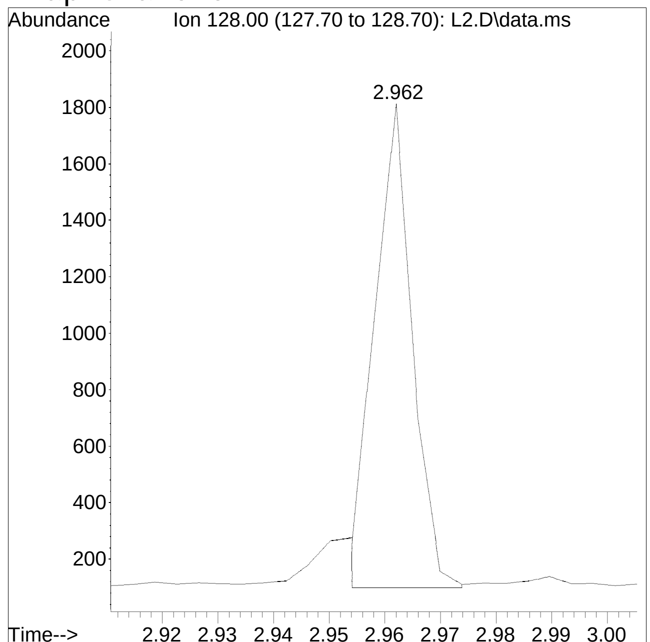

SIM-RVT_241025sv118.M Wed Dec 04 11:42:31 2024    Page: 3

Manual Integration Report

```
Data Path    : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File    : L2.D                       Operator    : SV118:dv
Date Inj'd   : 10/25/2024  7:03 pm        Instrument  : SV118
Sample       : IL2,32,, #10900 2 ng/ml    Quant Date  : 12/4/2024 11:33 am
```

Compound #9: Naphthalene



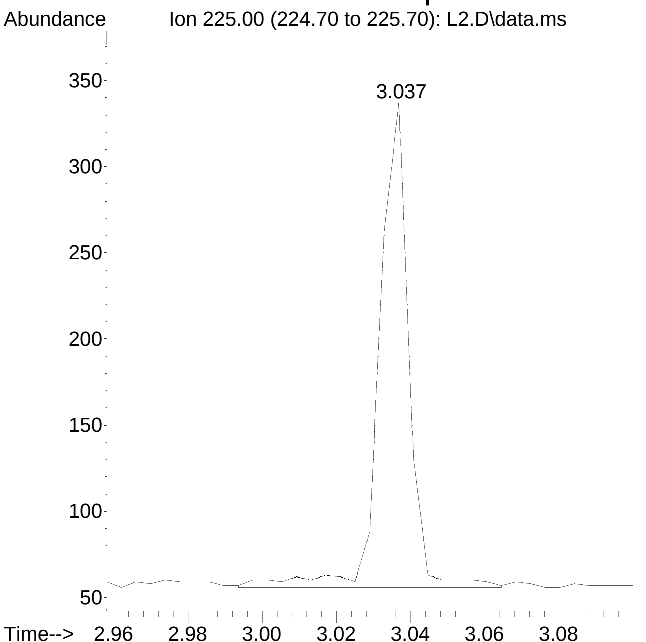

Original Peak Response = 903          Manual Peak Response = 788 M4

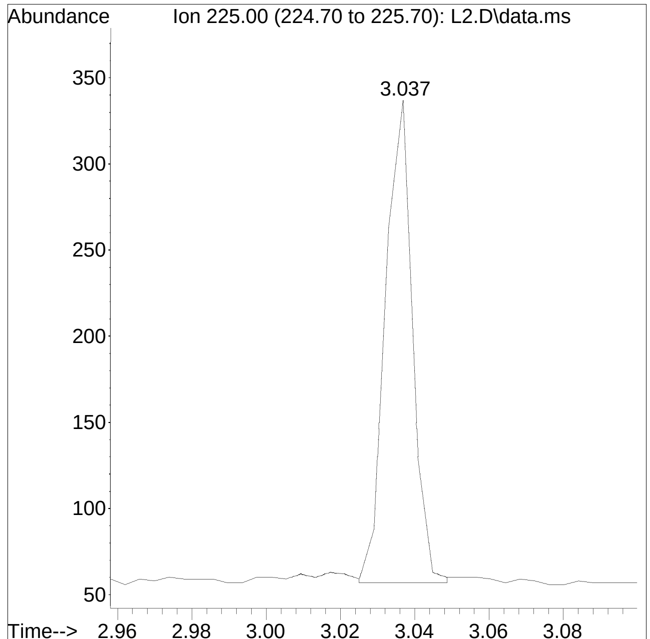
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L2.D  Operator : SV118:dv
Date Inj'd : 10/25/2024 7:03 pm  Instrument : SV118
Sample : IL2,32,, #10900 2 ng/ml  Quant Date : 12/4/2024 11:33 am

Compound #10: Hexachlorobutadiene



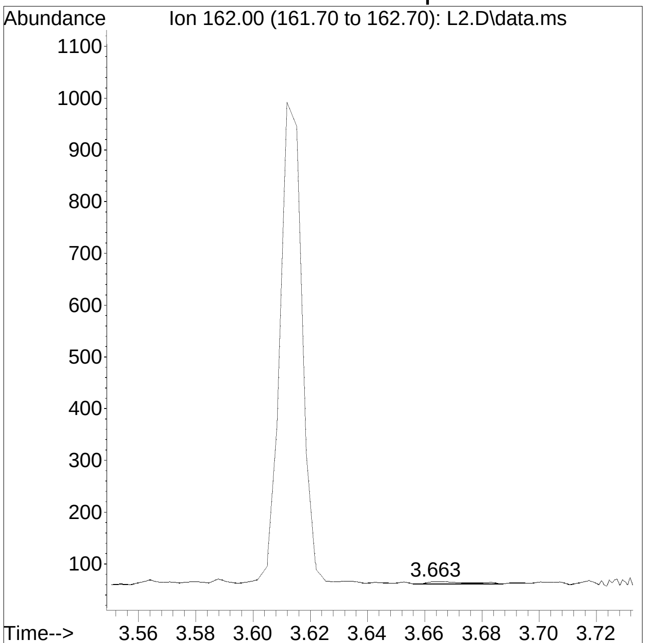



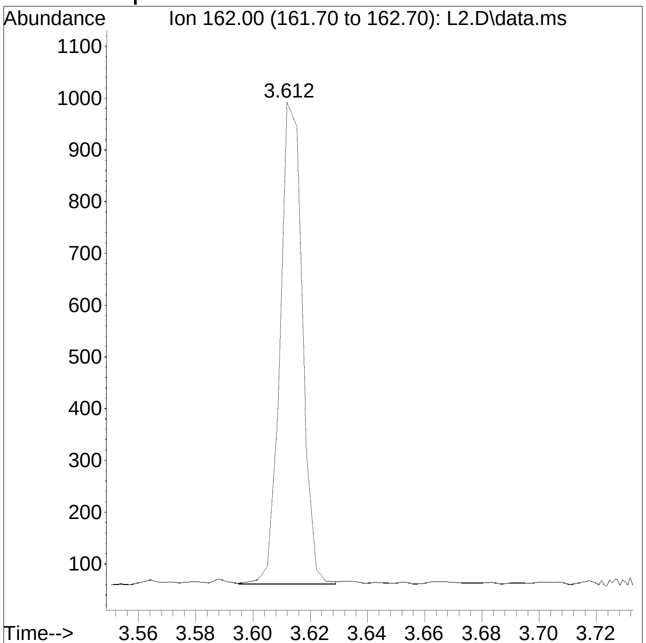

Original Peak Response = 155  Manual Peak Response = 142 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L2.D                      Operator    : SV118:dv
Date Inj'd  : 10/25/2024  7:03 pm       Instrument  : SV118
Sample      : IL2,32,, #10900 2 ng/ml   Quant Date  : 12/4/2024 11:33 am
```

Compound #14: 2-Chloronaphthalene



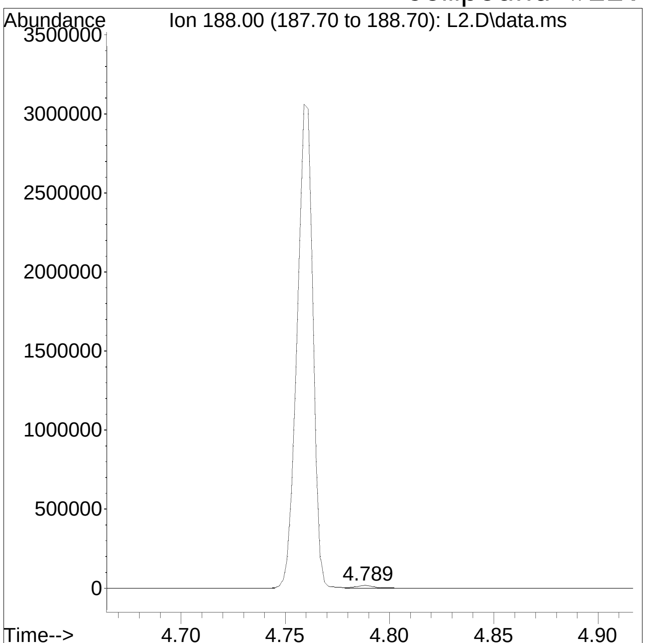

Original Peak Response = 5          Manual Peak Response = 503 M3

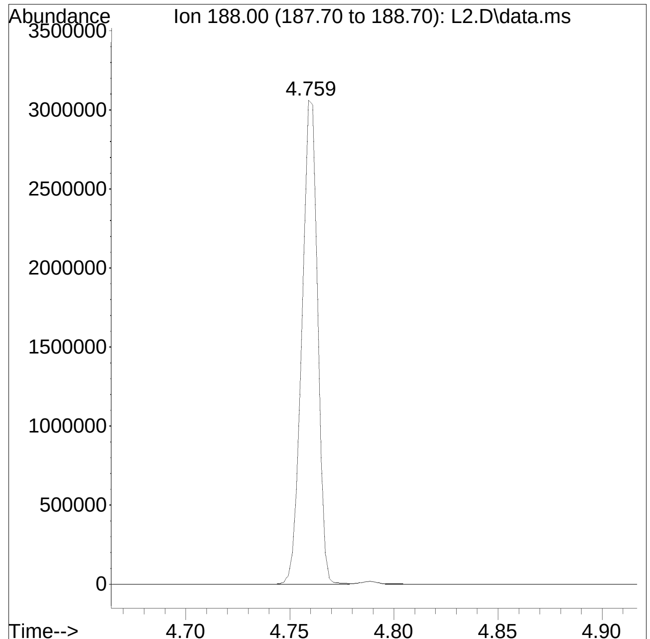
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L2.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:03 pm Instrument : SV118
Sample : IL2,32,, #10900 2 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #22: Phenanthrene-d10



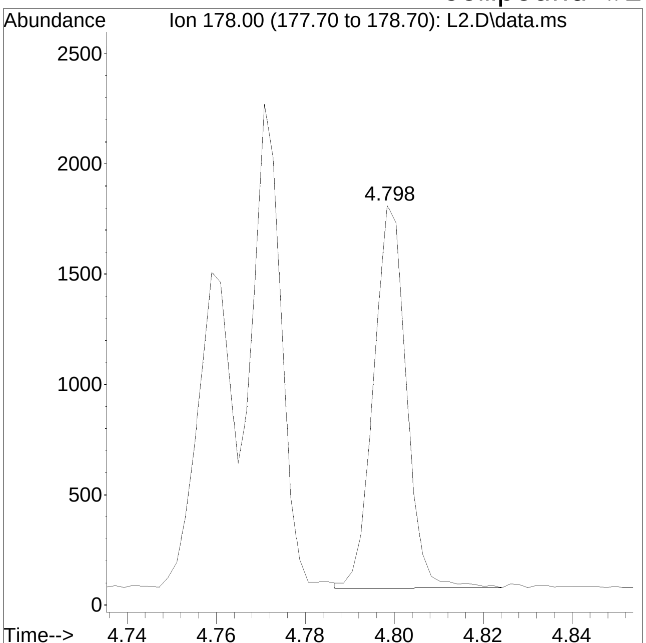



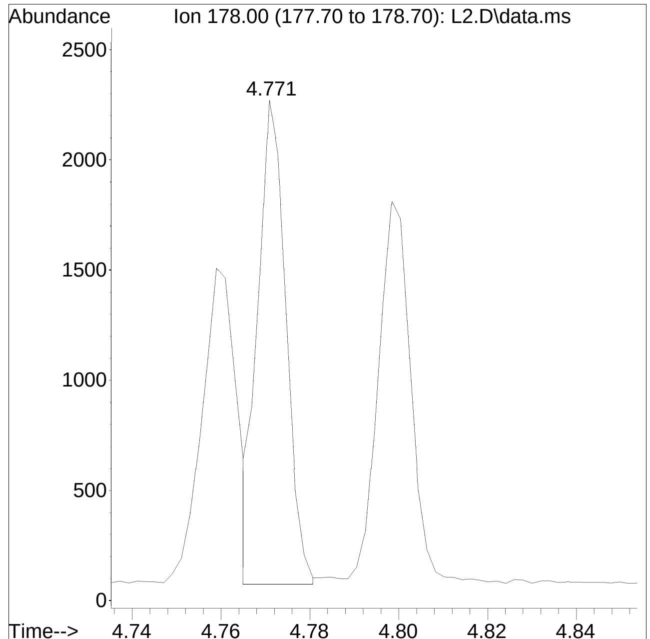

Original Peak Response = 12507 Manual Peak Response = 1610327 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L2.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:03 pm Instrument : SV118
Sample : IL2,32,, #10900 2 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #26: Phenanthrene



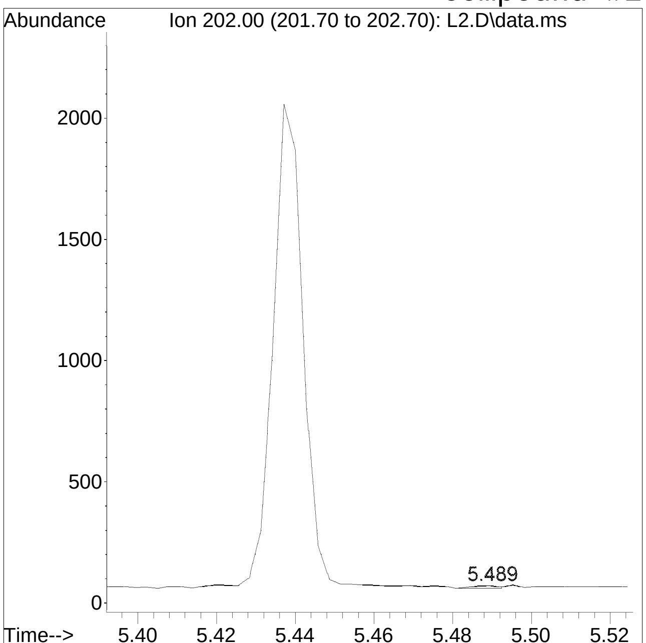

Original Peak Response = 890 Manual Peak Response = 966 M3

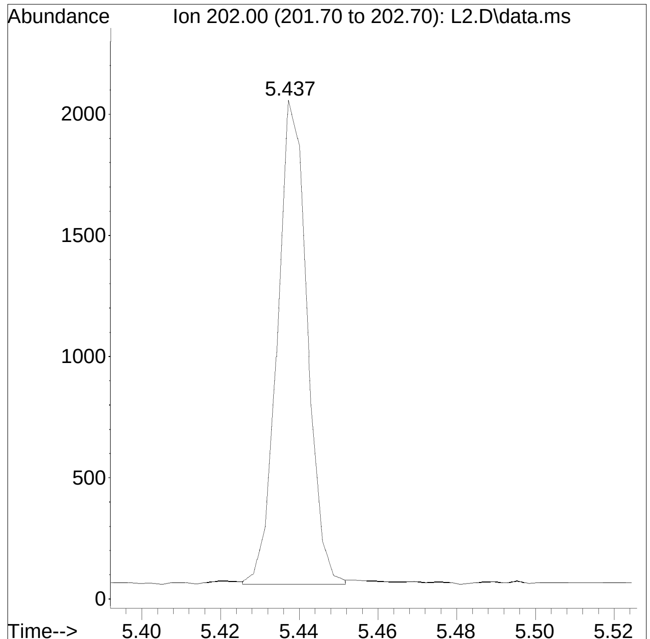
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L2.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:03 pm Instrument : SV118
Sample : IL2,32,, #10900 2 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #28: Fluoranthene



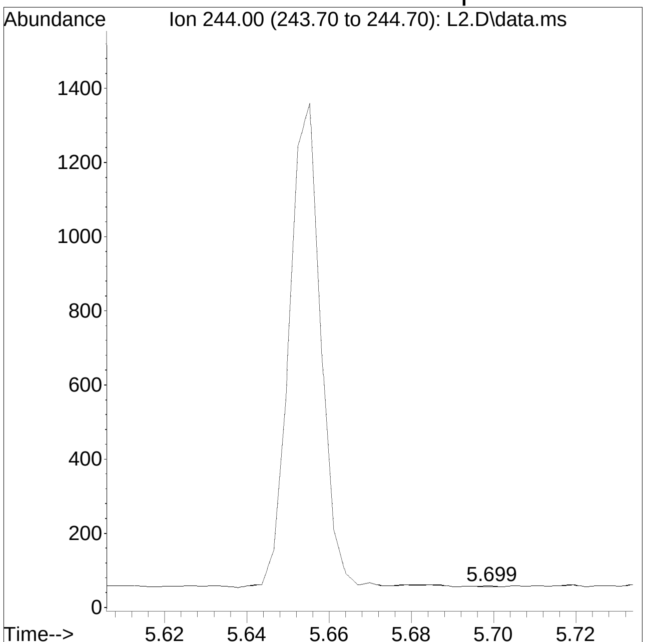

Original Peak Response = 5 Manual Peak Response = 1049 M3

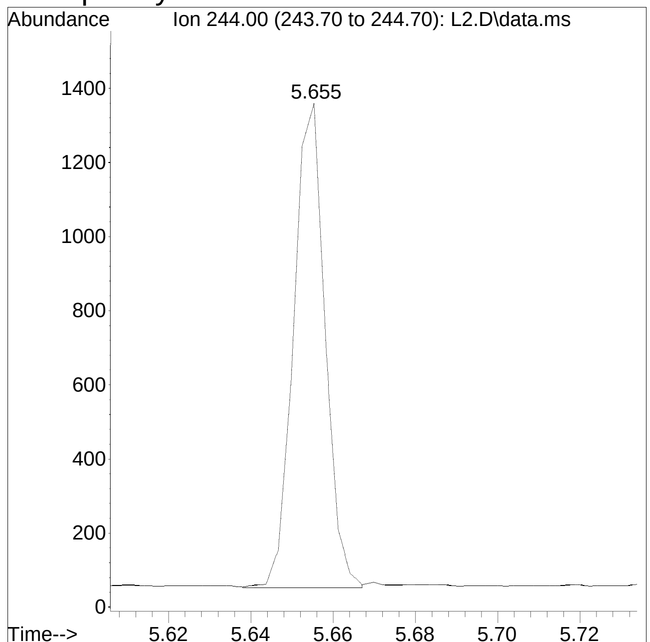
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L2.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:03 pm Instrument : SV118
Sample : IL2,32,, #10900 2 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #30: 4-Terphenyl-d14



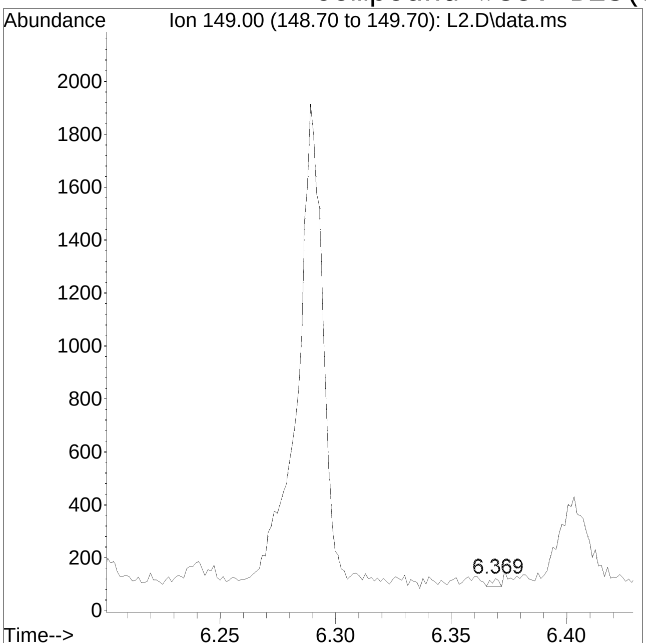

Original Peak Response = 1 Manual Peak Response = 693 M3

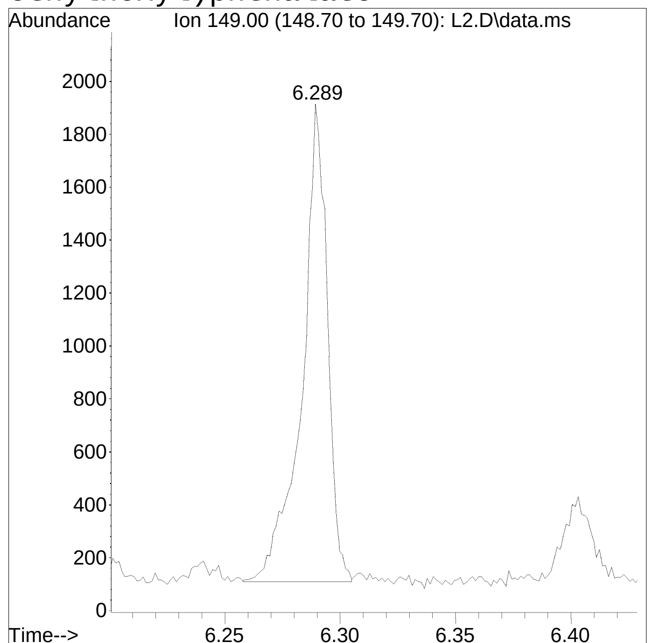
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L2.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:03 pm Instrument : SV118
Sample : IL2,32,, #10900 2 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #35: Bis(2-ethylhexyl)phthalate



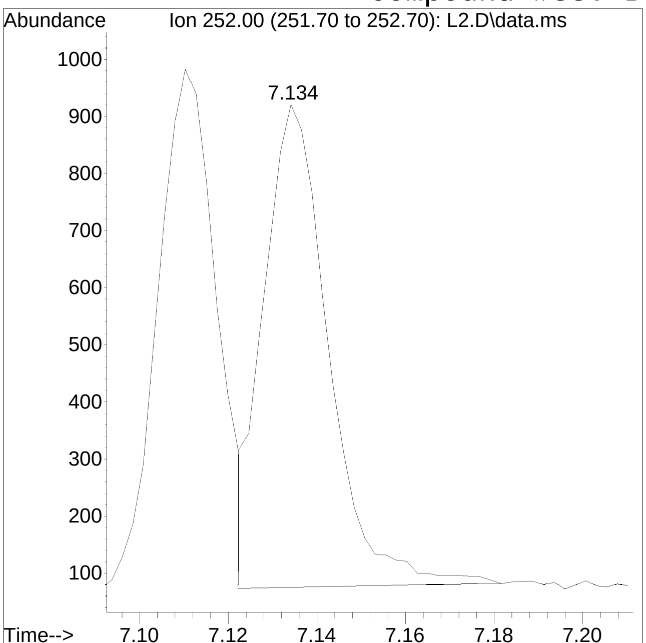



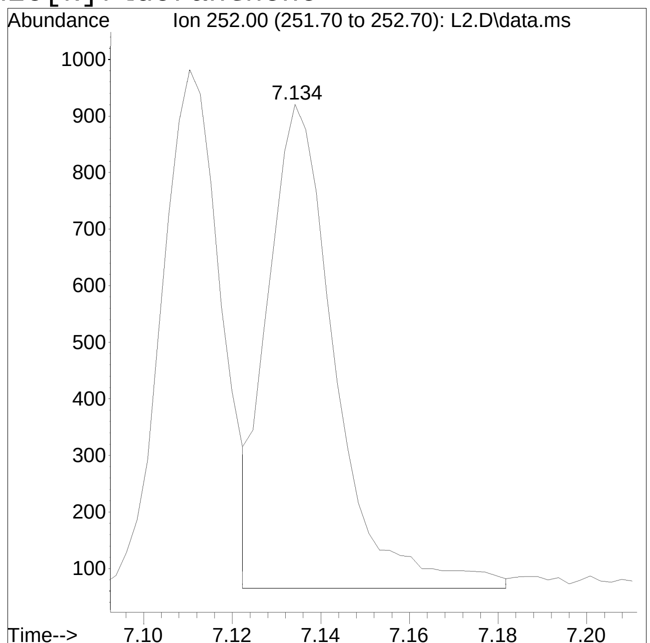

Original Peak Response = 7 Manual Peak Response = 1370 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L2.D                       Operator    : SV118:dv
Date Inj'd  : 10/25/2024  7:03 pm        Instrument  : SV118
Sample      : IL2,32,, #10900 2 ng/ml    Quant Date  : 12/4/2024 11:33 am
```

Compound #38: Benzo[k]fluoranthene




Original Peak Response = 862        Manual Peak Response = 908 M4

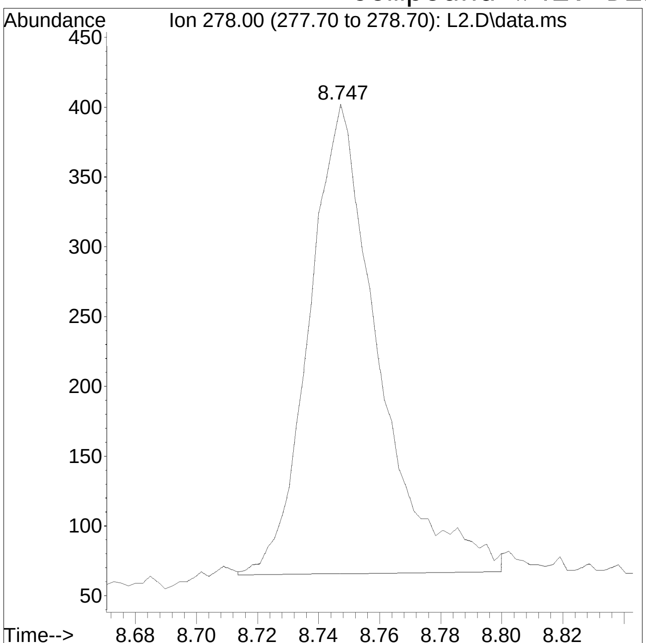
M4 = Poor automated baseline construction.

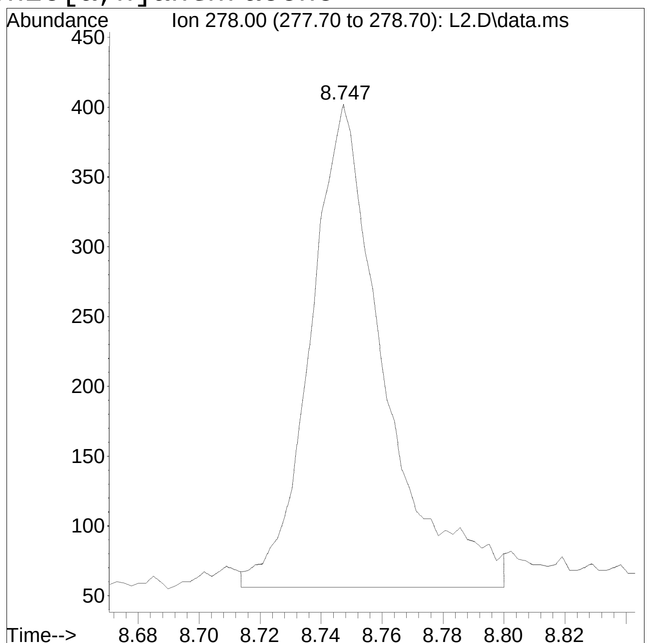
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410Q
Data File : L2.D
Date Inj'd : 10/25/2024 7:03 pm
Sample : IL2,32,, #10900 2 ng/ml

Method : SIM-RVT_241025sv118.M
Operator : SV118:dv
Instrument : SV118
Quant Date : 12/4/2024 11:33 am

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 531

Manual Peak Response = 582 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L1.D
Acq On    : 25 Oct 2024  07:21 pm
Operator  : SV118:dv
Sample    : IL1,32,, #10895 1 ng/ml
Misc      : WG1990947,,ical
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Dec 04 11:40:11 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:23 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List     : Default - All compounds listed

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ------------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4      2.286  152    415774   4000.000 ng/ml    0.00
   Standard Area 1 = 429824                 Recovery   =   96.73%
 8) Naphthalene-d8              2.950  136   1497480   4000.000 ng/ml    0.00
   Standard Area 1 = 1574353                 Recovery   =   95.12%
17) Acenaphthene-d10            3.928  164    811623   4000.000 ng/ml    0.00
   Standard Area 1 = 863987                 Recovery   =   93.94%
22) Phenanthrene-d10            4.761  188   1673672M3  4000.000 ng/ml    0.00
   Standard Area 1 = 1755380                 Recovery   =   95.35%
31) Chrysene-d12                6.281  240   1660718   4000.000 ng/ml    0.00
   Standard Area 1 = 1692718                 Recovery   =   98.11%
36) Perylene-d12                7.493  264   1700594   4000.000 ng/ml    0.00
   Standard Area 1 = 1795203                 Recovery   =   94.73%

 System Monitoring Compounds
 2) 2-Fluorophenol              1.690  112       132     1.123 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.06%#
 3) Phenol-d6                   2.091   99       158     1.094 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.05%#
 7) Nitrobenzene-d5             2.566   82        93M3    0.997 ng/ml   0.00

   Spiked Amount   1000.000   Range  30 - 130    Recovery   =    0.10%#
13) 2-Fluorobiphenyl            3.550  172       307     1.066 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =    0.11%#
21) 2,4,6-Tribromophenol        4.370  330        50     1.337 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.07%#
30) 4-Terphenyl-d14             5.655  244       388M3    1.133 ng/ml   0.00

   Spiked Amount   1000.000   Range  30 - 130    Recovery   =    0.11%#

 Target Compounds                                                 Qvalue
 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
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L1.D
Acq On : 25 Oct 2024 07:21 pm
Operator : SV118:dv
Sample : IL1,32,, #10895 1 ng/ml
Misc : WG1990947,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 04 11:40:11 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:23 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 16) Acenaphthylene | 0.000 | | 0 | N.D. | d | |
| 18) Acenaphthene | 0.000 | | 0 | N.D. | d | |
| 19) 2,4-Dinitrotoluene | 0.000 | | 0 | N.D. | d | |
| 20) Fluorene | 0.000 | | 0 | N.D. | d | |
| 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 | 0.000 | | 0 | N.D. | d | |
| 27) Anthracene | 0.000 | | 0 | N.D. | d | |
| 28) Fluoranthene | 0.000 | | 0 | N.D. | d | |
| 29) Pyrene | 0.000 | | 0 | N.D. | d | |
| 32) Benzo[a]anthracene | 0.000 | | 0 | N.D. | d | |
| 33) 3,3'-Dichlorobenzidine | 0.000 | | 0 | N.D. | d | |
| 34) Chrysene | 0.000 | | 0 | N.D. | d | |
| 35) Bis(2-ethylhexyl)phtha... | 0.000 | | 0 | N.D. | d | |
| 37) Benzo[b]fluoranthene | 0.000 | | 0 | N.D. | d | |
| 38) Benzo[k]fluoranthene | 0.000 | | 0 | N.D. | d | |
| 39) Benzo[a]pyrene | 0.000 | | 0 | N.D. | d | |
| 40) Indeno[1,2,3-cd]pyrene | 0.000 | | 0 | N.D. | d | |
| 41) Dibenzo[a,h]anthracene | 0.000 | | 0 | N.D. | d | |
| 42) Benzo[g,h,i]perylene | 0.000 | | 0 | N.D. | d | |

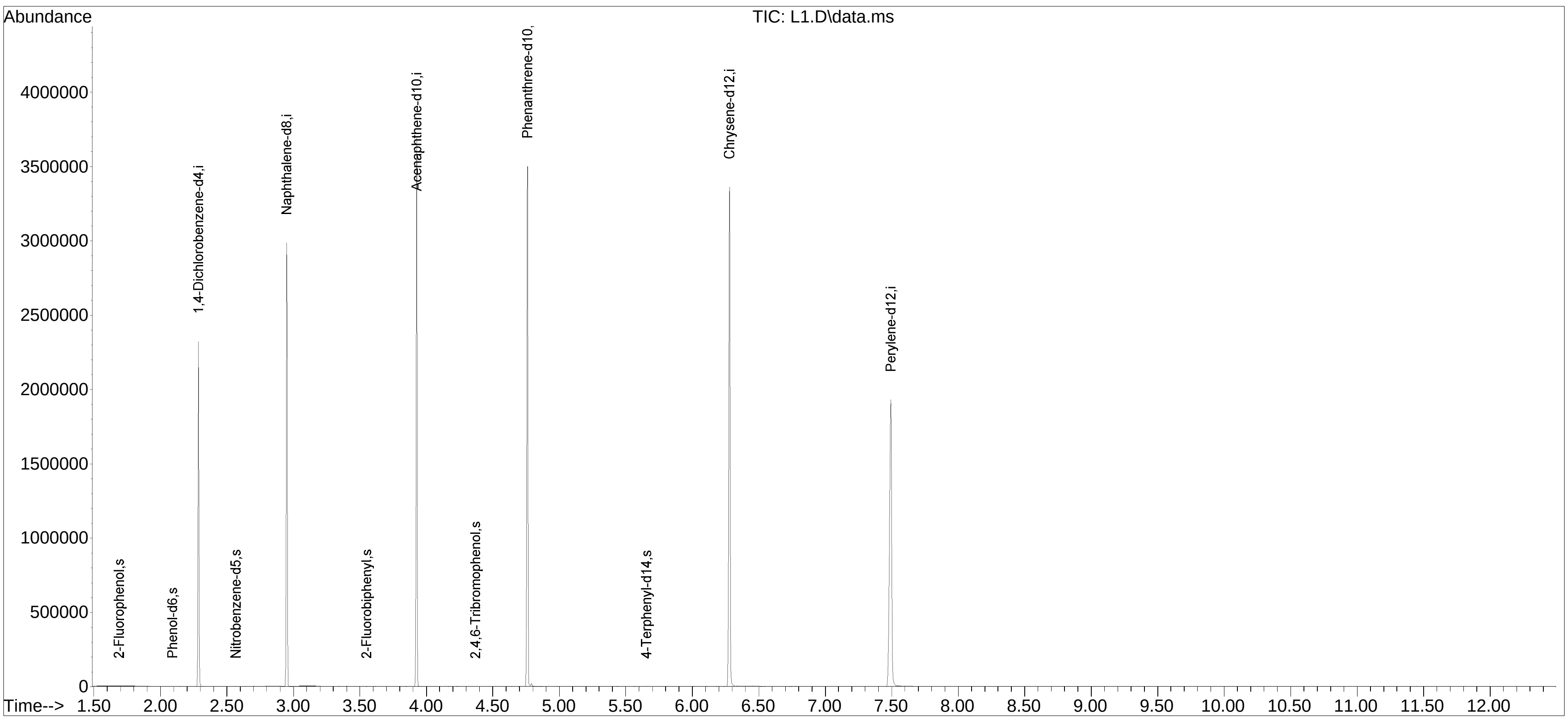
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L1.D
Acq On : 25 Oct 2024 07:21 pm
Operator : SV118:dv
Sample : IL1,32,, #10895 1 ng/ml
Misc : WG1990947,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 04 11:40:11 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:23 2024
Response via : Initial Calibration

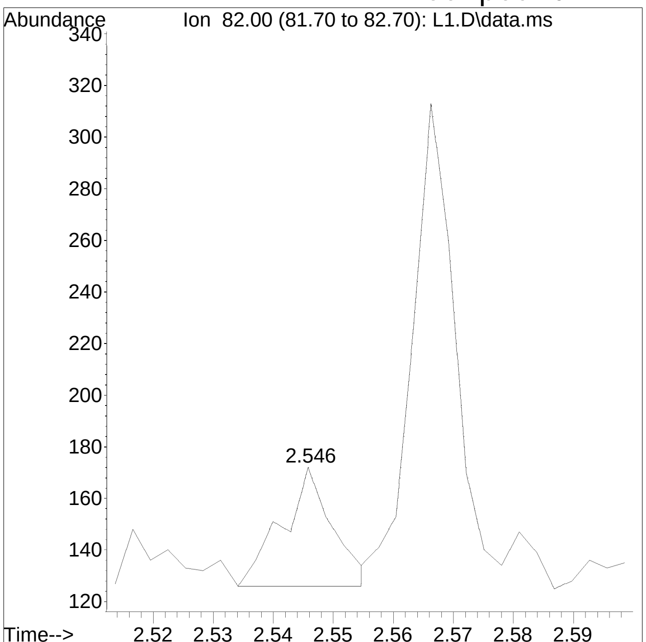
Sub List : Default - All compounds listedical\L8.D•

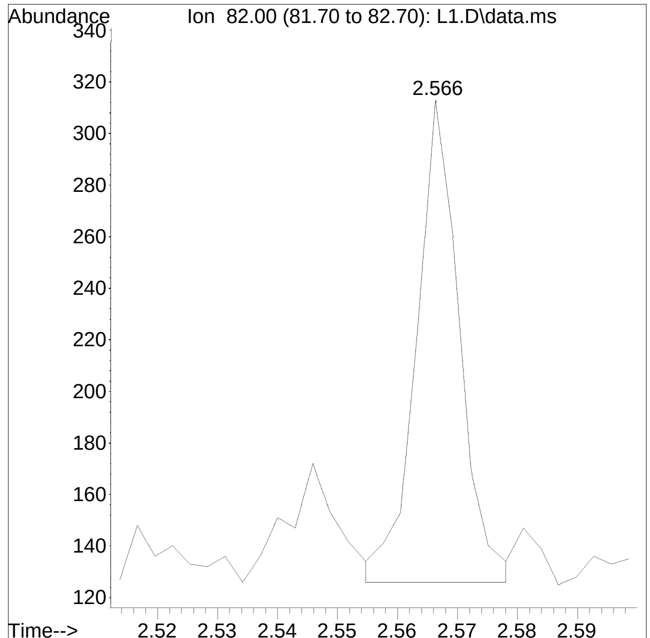


Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : L1.D                     Operator     : SV118:dv
Date Inj'd  : 10/25/2024  7:21 pm      Instrument   : SV118
Sample      : IL1,32,, #10895 1 ng/ml  Quant Date   : 12/4/2024 11:33 am
```

Compound #7: Nitrobenzene-d5



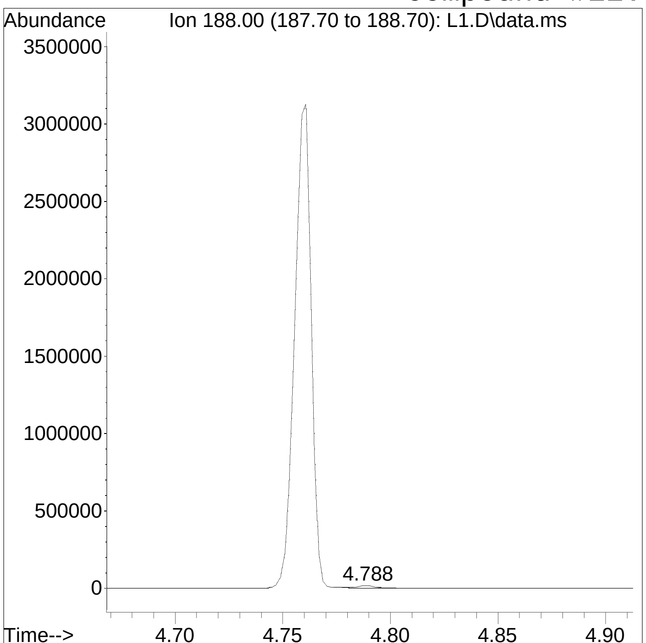

Original Peak Response = 27    Manual Peak Response = 93 M3

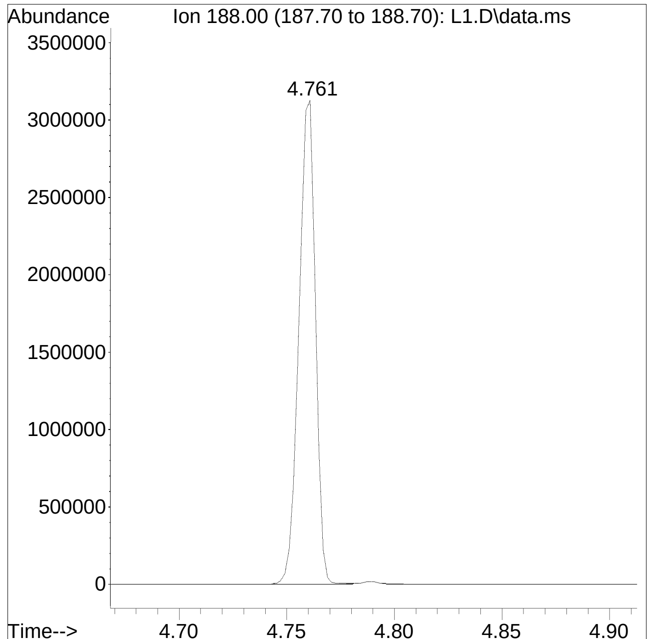
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path    : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File    : L1.D                        Operator    : SV118:dv
Date Inj'd   : 10/25/2024  7:21 pm         Instrument  : SV118
Sample       : IL1,32,, #10895 1 ng/ml     Quant Date  : 12/4/2024 11:33 am
```

Compound #22: Phenanthrene-d10



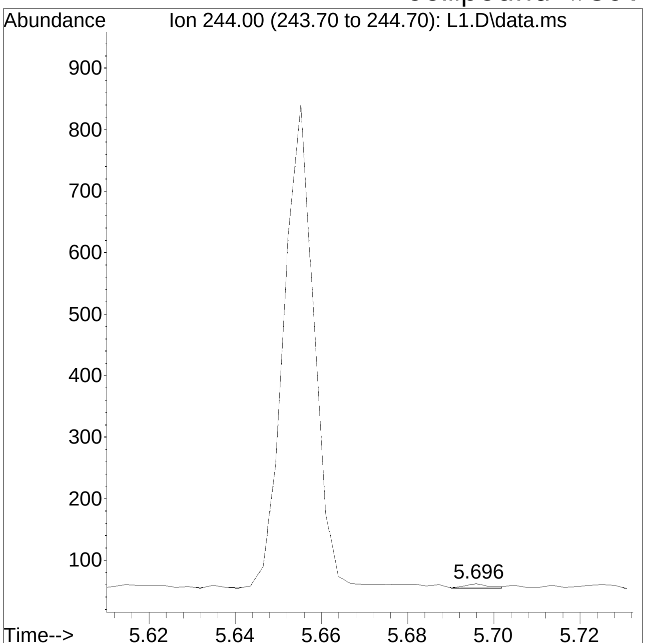

Original Peak Response = 12285        Manual Peak Response = 1673672 M3

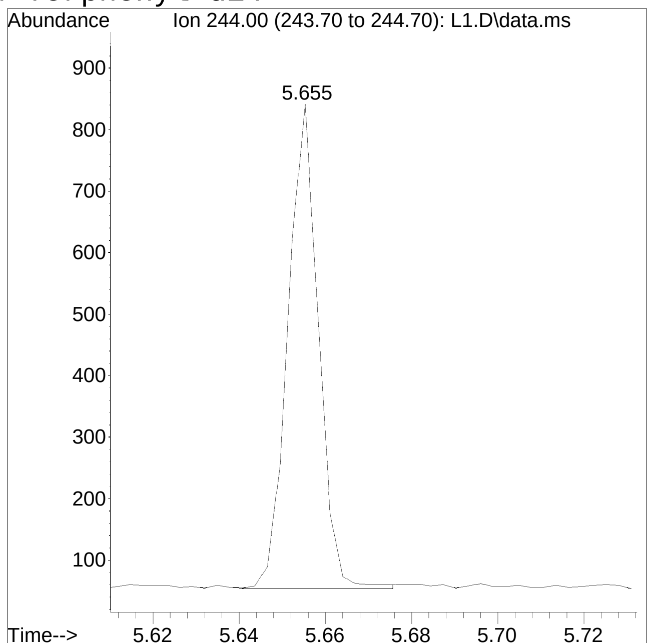
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L1.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:21 pm Instrument : SV118
Sample : IL1,32,, #10895 1 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #30: 4-Terphenyl-d14




Original Peak Response = 2 Manual Peak Response = 388 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.

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : ICV.D
Acq On : 25 Oct 2024 07:38 pm
Operator : SV118:dv
Sample : CQICV,32,, #10884 1000 ng/ml
Misc : WG1990947,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 04 11:31:43 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:32:57 2024
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 | 82 | 0.00 |
| 2 | s | 2-Fluorophenol | 1.131 | 1.080 | 4.5 | 80 | 0.00 |
| 3 | s | Phenol-d6 | 1.390 | 1.331 | 4.2 | 79 | 0.00 |
| 4 | T | Bis(2-chloroethyl)ether | *1000.000 | 968.718 | 3.1 | 78 | 0.00 |
| 5 | T | n-nitrosodi-n-propylamine | 0.879 | 0.812 | 7.6 | 76 | 0.00 |
| 6 | t | Hexachloroethane | 0.502 | 0.469 | 6.6 | 77 | 0.00 |
| 7 | s | Nitrobenzene-d5 | 0.897 | 0.846 | 5.7 | 74 | 0.00 |
| 8 | i | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 83 | 0.00 |
| 9 | t | Naphthalene | 1.053 | 0.970 | 7.9 | 79 | 0.00 |
| 10 | t | Hexachlorobutadiene | 0.187 | 0.179 | 4.3 | 81 | 0.00 |
| 11 | t | 2-Methylnaphthalene | 0.674 | 0.649 | 3.7 | 81 | 0.00 |
| 12 | t | 1-Methylnaphthalene | 0.627 | 0.601 | 4.1 | 81 | 0.00 |
| 13 | s | 2-Fluorobiphenyl | 0.769 | 0.735 | 4.4 | 82 | 0.00 |
| 14 | t | 2-Chloronaphthalene | 0.677 | 0.640 | 5.5 | 79 | 0.00 |
| 15 | t | 2,6-Dinitrotoluene | 0.092 | 0.087 | 5.4 | 75 | 0.00 |
| 16 | t | Acenaphthylene | 1.002 | 0.984 | 1.8 | 80 | 0.00 |
| 17 | i | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 85 | 0.00 |
| 18 | t | Acenaphthene | 1.308 | 1.200 | 8.3 | 81 | 0.00 |
| 19 | t | 2,4-Dinitrotoluene | *1000.000 | 839.436 | 16.1 | 77 | 0.00 |
| 20 | t | Fluorene | 1.393 | 1.322 | 5.1 | 81 | 0.00 |
| 21 | s | 2,4,6-Tribromophenol | 0.184 | 0.191 | -3.8 | 84 | 0.00 |
| 22 | i | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 88 | 0.00 |
| 23 | T | 4,6-Dinitro-o-cresol | *1000.000 | 815.959 | 18.4 | 77 | 0.00 |
| 24 | t | Hexachlorobenzene | 0.263 | 0.245 | 6.8 | 84 | 0.00 |
| 25 | t | Pentachlorophenol | 0.098 | 0.099 | -1.0 | 80 | 0.00 |
| 26 | t | Phenanthrene | 1.086 | 0.994 | 8.5 | 84 | 0.00 |
| 27 | t | Anthracene | 1.066 | 1.011 | 5.2 | 84 | 0.00 |
| 28 | t | Fluoranthene | 1.216 | 1.138 | 6.4 | 84 | 0.00 |
| 29 | t | Pyrene | 1.291 | 1.230 | 4.7 | 85 | 0.00 |
| 30 | s | 4-Terphenyl-d14 | 0.818 | 0.770 | 5.9 | 86 | 0.00 |
| 31 | i | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 32 | t | Benzo[a]anthracene | 0.392 | 0.335 | 14.5 | 83 | 0.00 |
| 33 | t | 3,3'-Dichlorobenzidine | 0.418 | 0.445 | -6.5 | 84 | 0.00 |
| 34 | t | Chrysene | 1.207 | 1.138 | 5.7 | 85 | 0.00 |
| 35 | T | Bis(2-ethylhexyl)phthalate | 0.696 | 0.631 | 9.3 | 76 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : ICV.D
Acq On : 25 Oct 2024 07:38 pm
Operator : SV118:dv
Sample : CQICV,32,, #10884 1000 ng/ml
Misc : WG1990947,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 04 11:31:43 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:32:57 2024
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 | 87 | 0.00 |
| 37 | t | Benzo[b]fluoranthene | 1.031 | 0.993 | 3.7 | 81 | 0.00 |
| 38 | t | Benzo[k]fluoranthene | 1.093 | 1.076 | 1.6 | 81 | 0.00 |
| 39 | t | Benzo[a]pyrene | 0.911 | 0.915 | -0.4 | 81 | 0.00 |
| 40 | t | Indeno[1,2,3-cd]pyrene | 0.849 | 0.851 | -0.2 | 77 | -0.01 |
| 41 | t | Dibenzo[a,h]anthracene | 0.865 | 0.881 | -1.8 | 81 | -0.01 |
| 42 | t | Benzo[g,h,i]perylene | 0.890 | 0.877 | 1.5 | 81 | -0.01 |

* 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\2024\241025RVTical\
Data File : ICV.D
Acq On    : 25 Oct 2024  07:38 pm
Operator  : SV118:dv
Sample    : CQICV,32,, #10884 1000 ng/ml
Misc      : WG1990947,,ical
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Dec 04 11:31:43 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:32:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List     : Default - All compounds listed

       Compound                      R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4       2.286  152    354039   4000.000 ng/ml    0.00
   Standard Area 1 = 429824                 Recovery   =   82.37%
 8) Naphthalene-d8               2.950  136   1309976   4000.000 ng/ml    0.00
   Standard Area 1 = 1574353                 Recovery   =   83.21%
17) Acenaphthene-d10             3.928  164    738513   4000.000 ng/ml    0.00
   Standard Area 1 = 863987                 Recovery   =   85.48%
22) Phenanthrene-d10             4.759  188   1550049M3  4000.000 ng/ml    0.00
   Standard Area 1 = 1755380                 Recovery   =   88.30%
31) Chrysene-d12                 6.272  240   1499833   4000.000 ng/ml    0.00
   Standard Area 1 = 1692718                 Recovery   =   88.61%
36) Perylene-d12                 7.476  264   1558807   4000.000 ng/ml    0.00
   Standard Area 1 = 1795203                 Recovery   =   86.83%

 System Monitoring Compounds
 2) 2-Fluorophenol               1.689  112     95573   954.797 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery    =   47.74%
 3) Phenol-d6                    2.091   99    117797   957.700 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery    =   47.88%
 7) Nitrobenzene-d5              2.566   82     74838   942.419 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery    =   94.24%
13) 2-Fluorobiphenyl             3.550  172    240775   955.914 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery    =   95.59%
21) 2,4,6-Tribromophenol         4.366  330     35327   1038.113 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery    =   51.91%
30) 4-Terphenyl-d14              5.649  244    298400   940.877 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery    =   94.09%

 Target Compounds                                                 Qvalue
 4) Bis(2-chloroethyl)ether      2.149   93     101617    968.718 ng/ml     97
 5) n-nitrosodi-n-propylamine    2.484   70      71872    923.913 ng/ml     97
 6) Hexachloroethane             2.546  117      41469    933.585 ng/ml     87
 9) Naphthalene                  2.962  128     317734    921.403 ng/ml    100
10) Hexachlorobutadiene          3.037  225      58621    957.789 ng/ml    100
11) 2-Methylnaphthalene          3.342  142     212474    961.967 ng/ml     98
12) 1-Methylnaphthalene          3.400  142     196895    958.192 ng/ml     99
14) 2-Chloronaphthalene          3.615  162     209488    944.989 ng/ml#    88
15) 2,6-Dinitrotoluene           3.805  165      28596    953.057 ng/ml#    83
16) Acenaphthylene               3.847  152     322323    982.177 ng/ml     99
18) Acenaphthene                 3.945  153     221633    918.017 ng/ml     97
```

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : ICV.D
Acq On    : 25 Oct 2024  07:38 pm
Operator  : SV118:dv
Sample    : CQICV,32,, #10884 1000 ng/ml
Misc      : WG1990947,,ical
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Dec 04 11:31:43 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:32:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List     : Default - All compounds listed
```

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 19) 2,4-Dinitrotoluene | 4.031 | 165 | 38286 | 839.436 | ng/ml# | 83 |
| 20) Fluorene | 4.231 | 166 | 244027 | 948.745 | ng/ml | 99 |
| 23) 4,6-Dinitro-o-cresol | 4.259 | 198 | 15870 | 815.959 | ng/ml# | 79 |
| 24) Hexachlorobenzene | 4.546 | 284 | 94894 | 929.858 | ng/ml | 99 |
| 25) Pentachlorophenol | 4.652 | 266 | 38433M2 | 1012.480 | ng/ml | |
| 26) Phenanthrene | 4.771 | 178 | 385001M3 | 914.950 | ng/ml | |
| 27) Anthracene | 4.798 | 178 | 391693 | 948.522 | ng/ml | 99 |
| 28) Fluoranthene | 5.437 | 202 | 441182 | 936.637 | ng/ml# | 91 |
| 29) Pyrene | 5.562 | 202 | 476733 | 952.779 | ng/ml | 99 |
| 32) Benzo[a]anthracene | 6.264 | 226 | 125600 | 855.108 | ng/ml# | 96 |
| 33) 3,3'-Dichlorobenzidine | 6.247 | 252 | 166953 | 1066.316 | ng/ml | 98 |
| 34) Chrysene | 6.288 | 228 | 426866 | 943.474 | ng/ml# | 99 |
| 35) Bis(2-ethylhexyl)phtha... | 6.281 | 149 | 236774 | 907.509 | ng/ml | 95 |
| 37) Benzo[b]fluoranthene | 7.098 | 252 | 386845 | 962.577 | ng/ml | 99 |
| 38) Benzo[k]fluoranthene | 7.125 | 252 | 419398 | 984.261 | ng/ml | 100 |
| 39) Benzo[a]pyrene | 7.410 | 252 | 356399 | 1003.789 | ng/ml | 100 |
| 40) Indeno[1,2,3-cd]pyrene | 8.692 | 276 | 331722 | 1002.155 | ng/ml# | 88 |
| 41) Dibenzo[a,h]anthracene | 8.728 | 278 | 343322M6 | 1018.903 | ng/ml | |
| 42) Benzo[g,h,i]perylene | 9.039 | 276 | 341643 | 984.592 | ng/ml# | 86 |

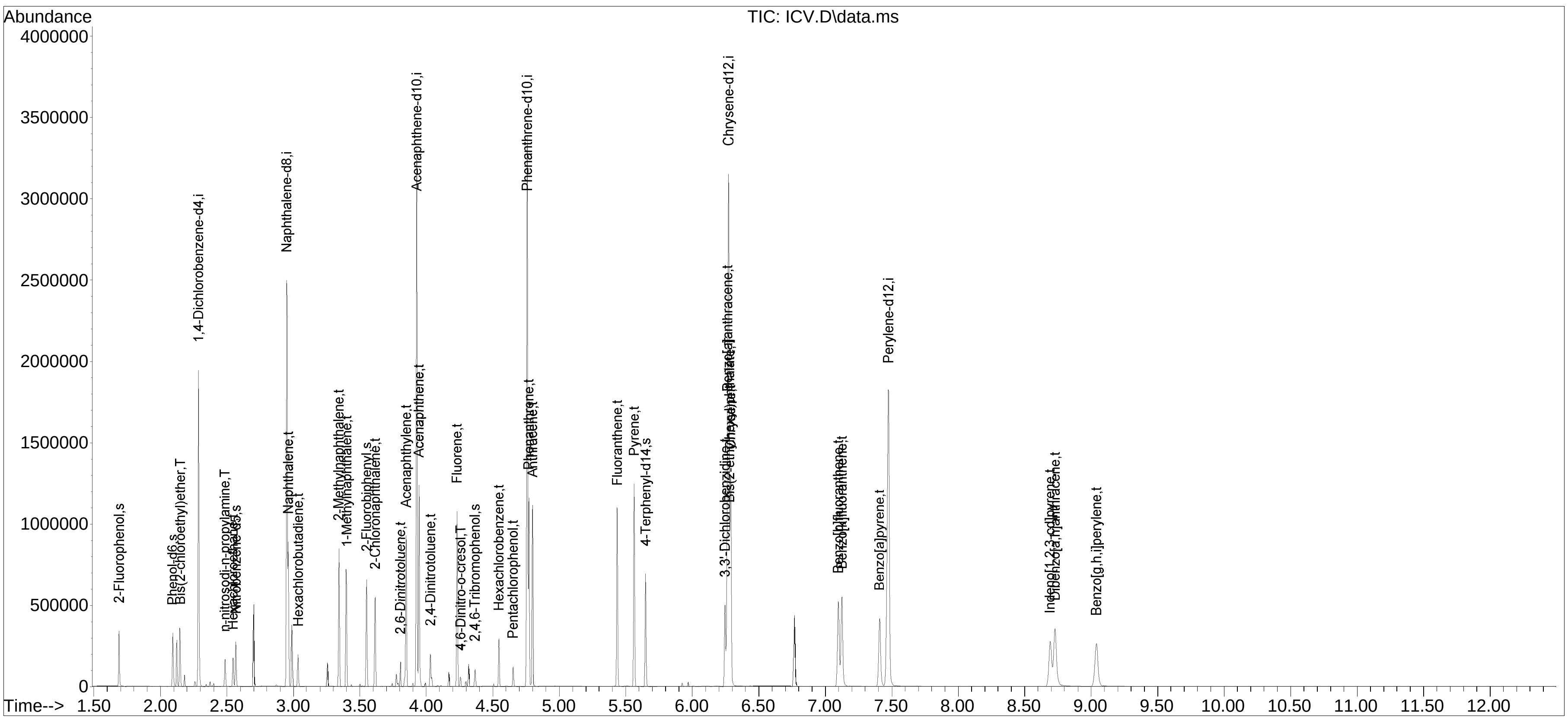
(#) = qualifier out of range (m) = manual integration (+) = signals summed

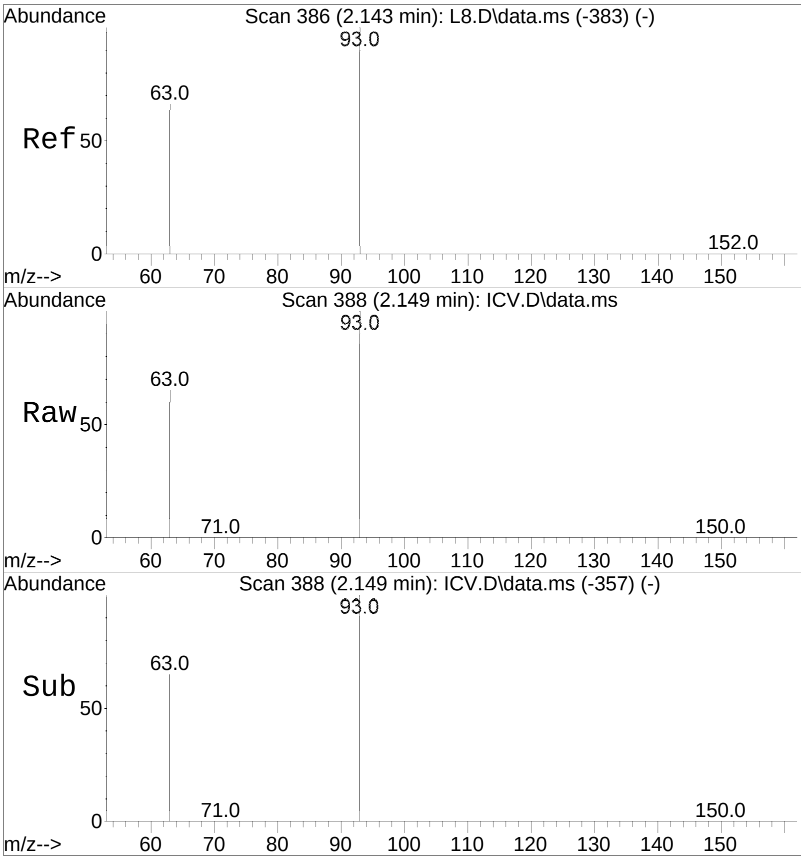
Quantitation Report    (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : ICV.D
Acq On    : 25 Oct 2024  07:38 pm
Operator  : SV118:dv
Sample    : CQICV,32,, #10884 1000 ng/ml
Misc      : WG1990947,,ical
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Dec 04 11:31:43 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:32:57 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listedical\L8.D•

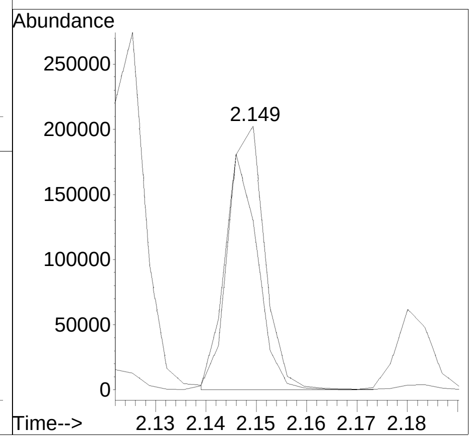


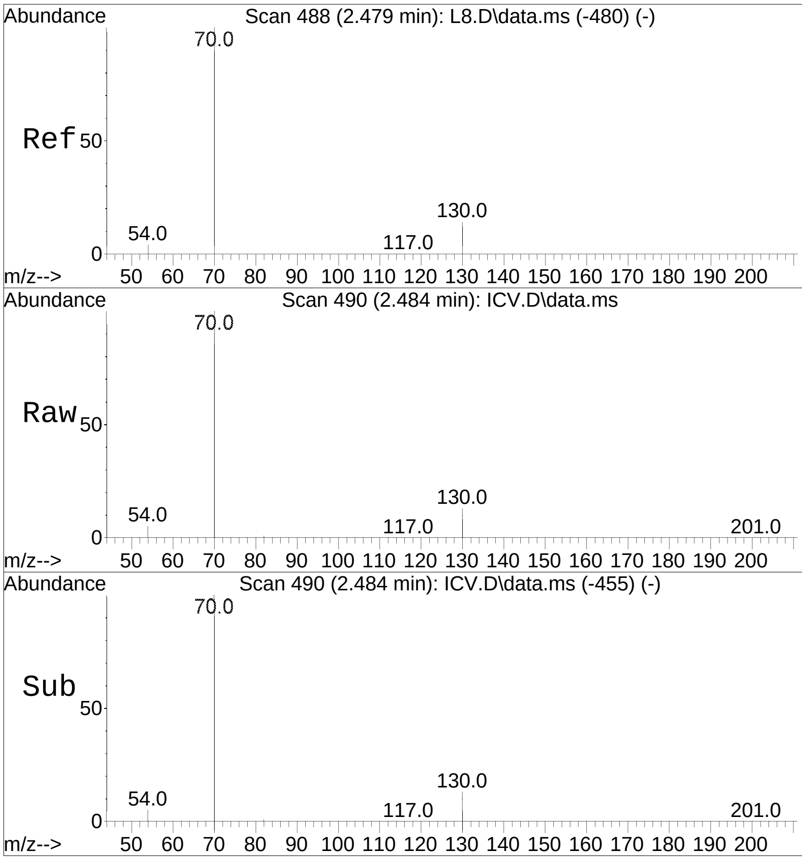



#4
Bis(2-chloroethyl)ether
Concen:  968.72 ng/ml
RT:   2.149 min  Scan# 388
Delta R.T.  0.006 min
Lab File:   ICV.D
Acq: 25 Oct 2024  07:38 pm

Tgt Ion: 93 Resp:  101617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 82.0 | 68.1 | 102.1 |

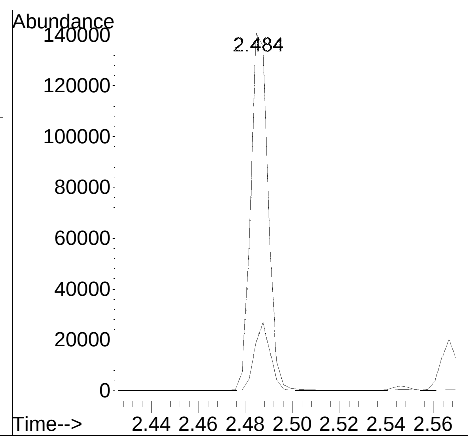


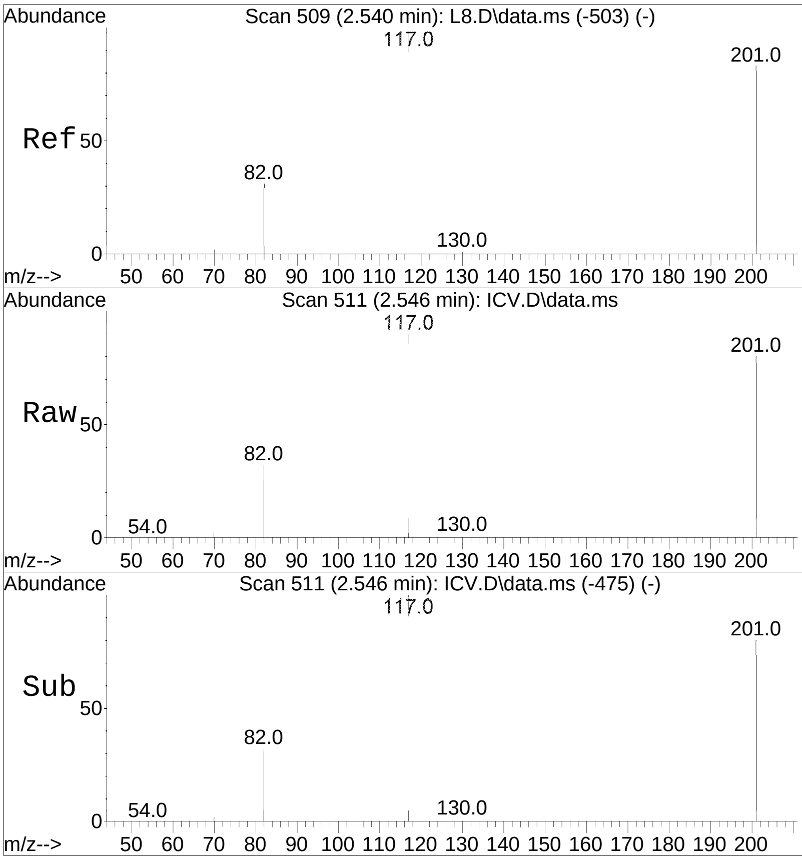



#5
n-nitrosodi-n-propylamine
Concen: 923.91 ng/ml
RT: 2.484 min Scan# 490
Delta R.T. 0.005 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion: 70 Resp: 71872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 130 | 17.3 | 13.0 | 19.4 |

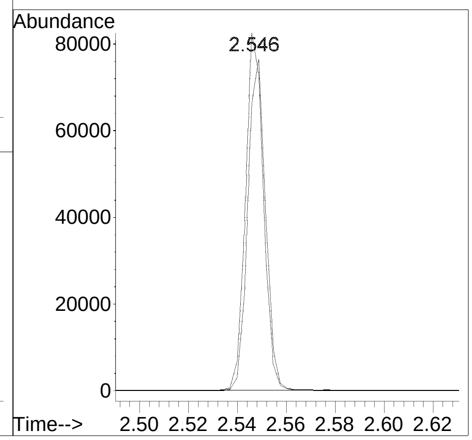


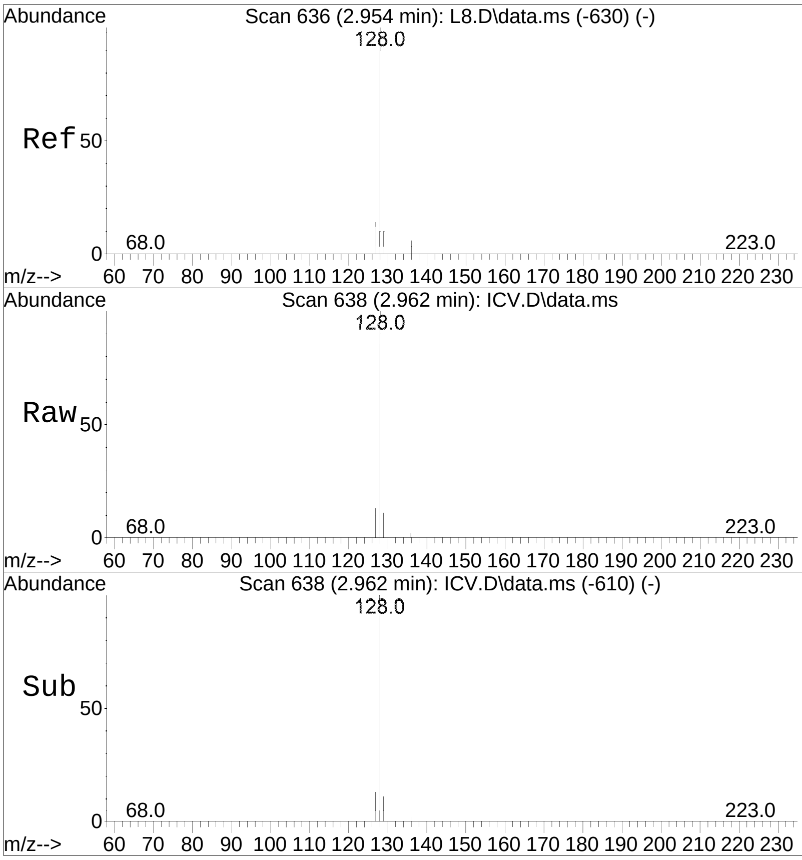



#6
Hexachloroethane
Concen: 933.59 ng/ml
RT: 2.546 min Scan# 511
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:117 Resp: 41469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 92.4 | 84.9 | 127.3 |

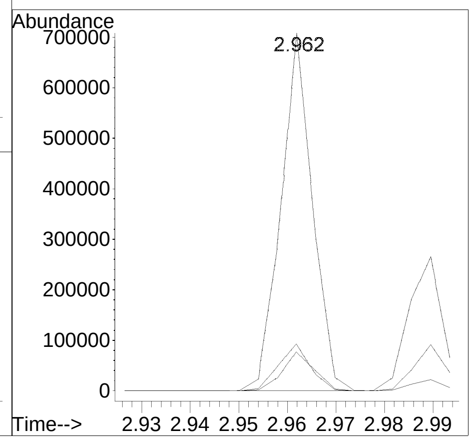


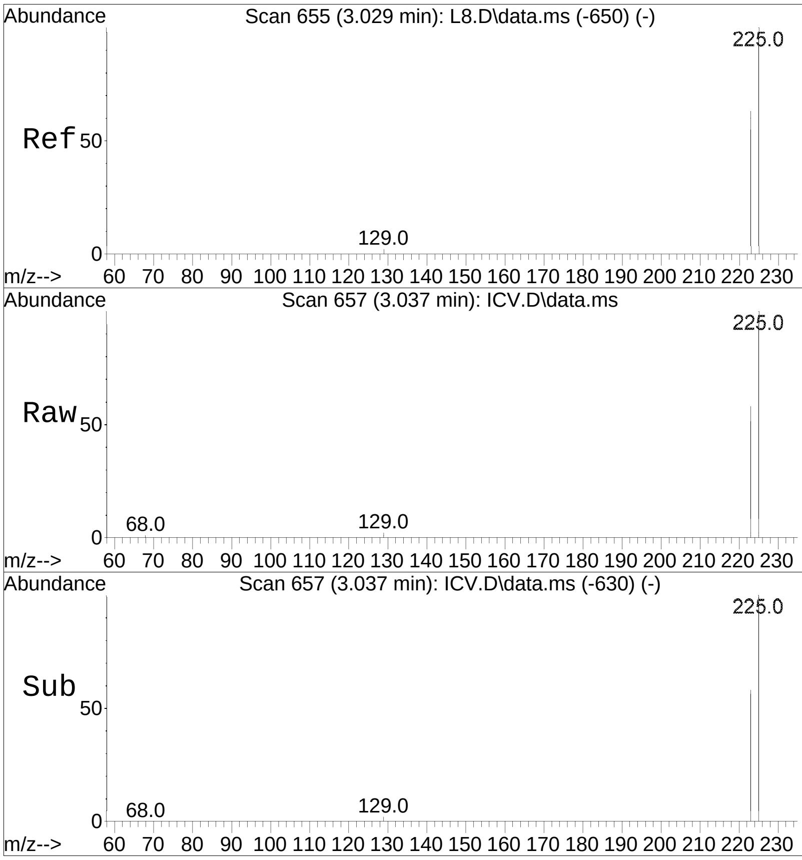



#9
Naphthalene
Concen: 921.40 ng/ml
RT: 2.962 min Scan# 638
Delta R.T. 0.008 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:128 Resp: 317734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.0 | 8.8 | 13.2 |
| 127 | 13.3 | 10.7 | 16.1 |

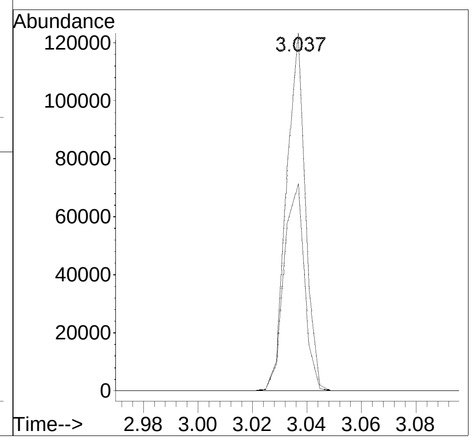


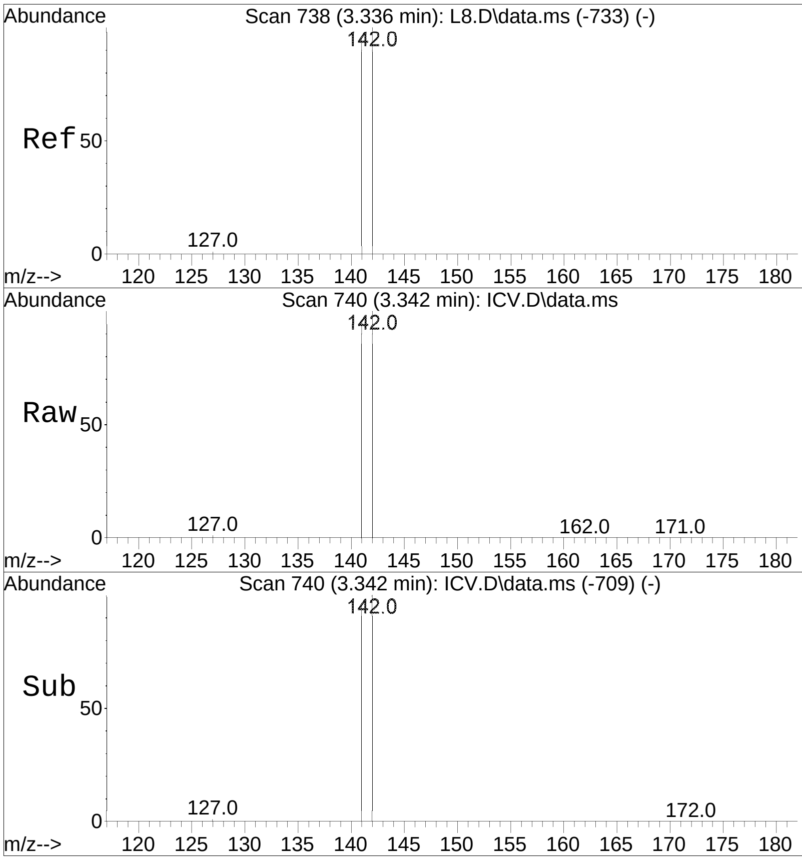



#10
Hexachlorobutadiene
Concen: 957.79 ng/ml
RT: 3.037 min Scan# 657
Delta R.T. 0.008 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:225 Resp: 58621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.7 | 50.4 | 75.6 |

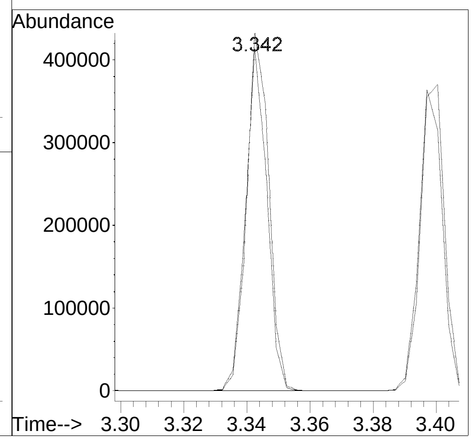


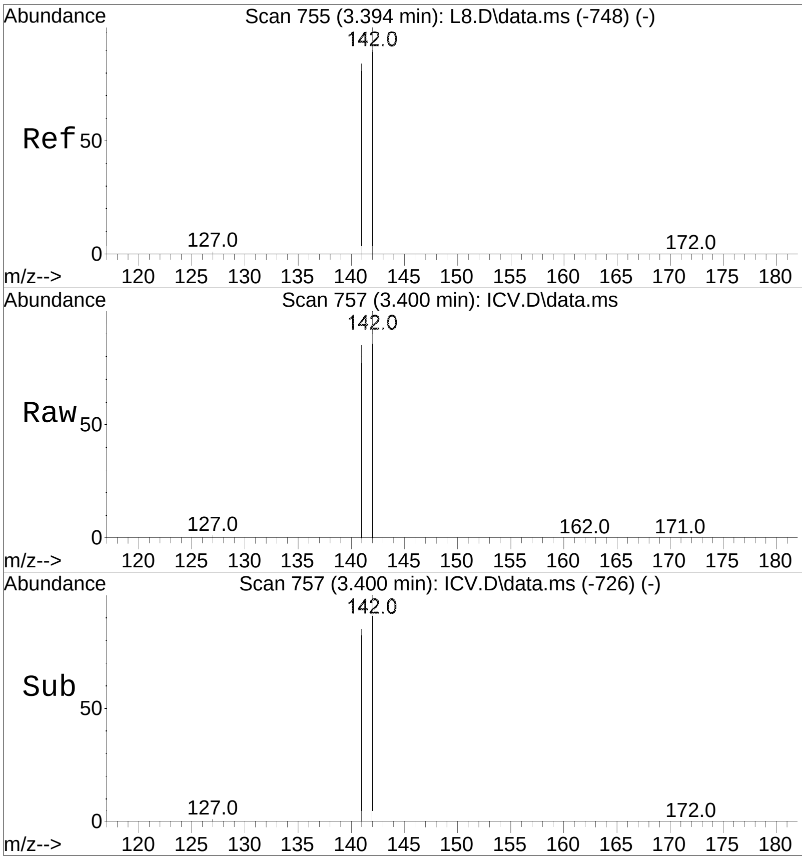



#11
2-Methylnaphthalene
Concen: 961.97 ng/ml
RT: 3.342 min Scan# 740
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:142 Resp: 212474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.6 | 71.8 | 107.8 |

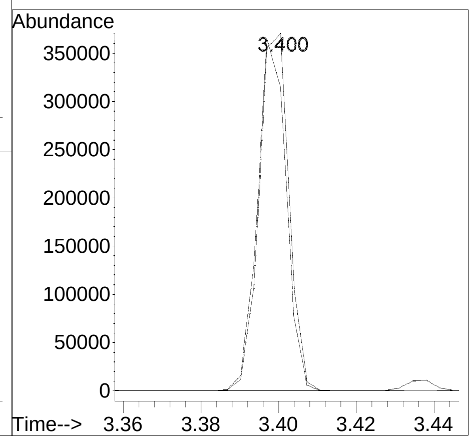


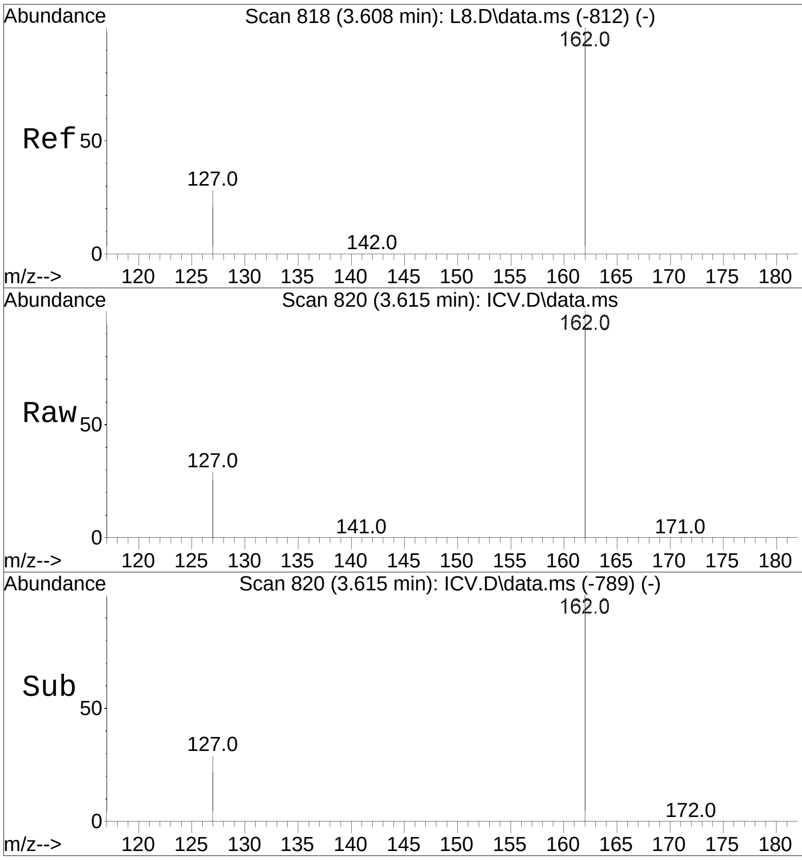



#12
1-Methylnaphthalene
Concen: 958.19 ng/ml
RT: 3.400 min Scan# 757
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:142 Resp: 196895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 94.3 | 74.6 | 111.8 |

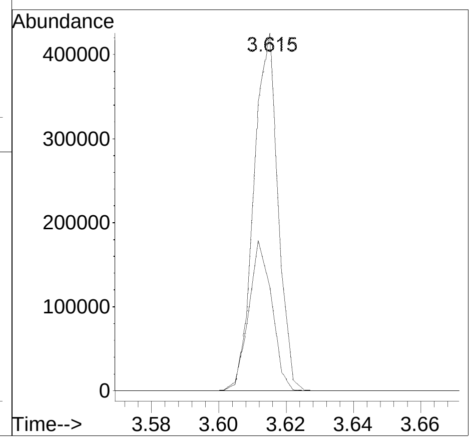


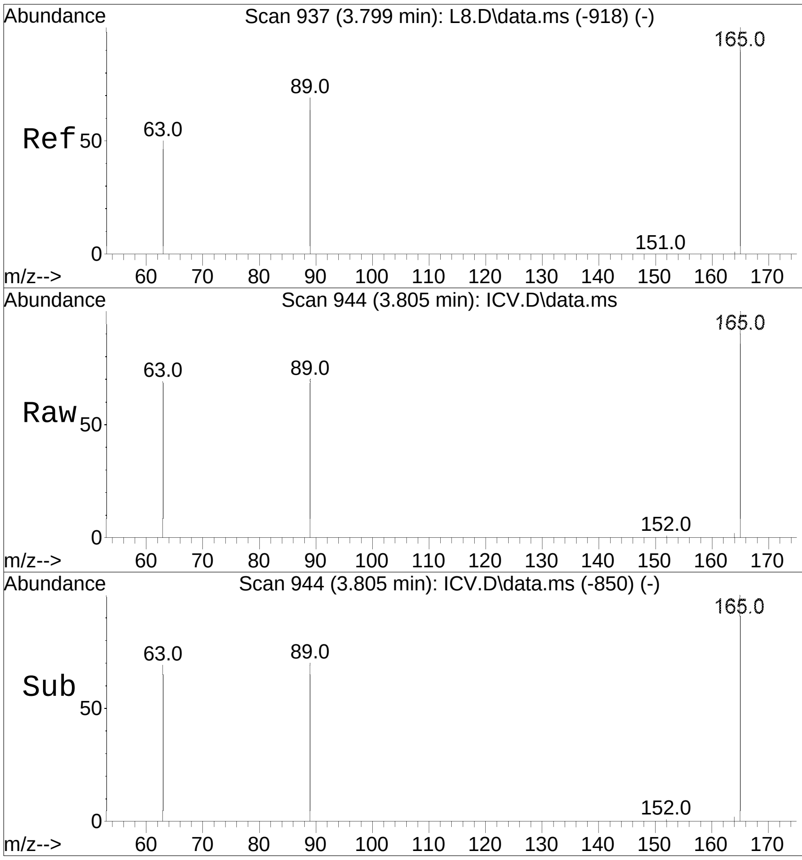



#14
2-Chloronaphthalene
Concen: 944.99 ng/ml
RT: 3.615 min Scan# 820
Delta R.T. 0.007 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:162 Resp: 209488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 40.4 | 26.9 | 40.3# |

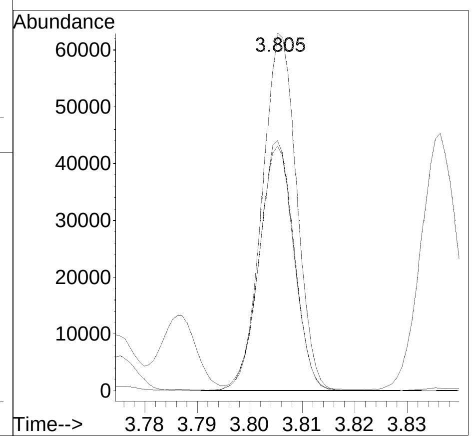


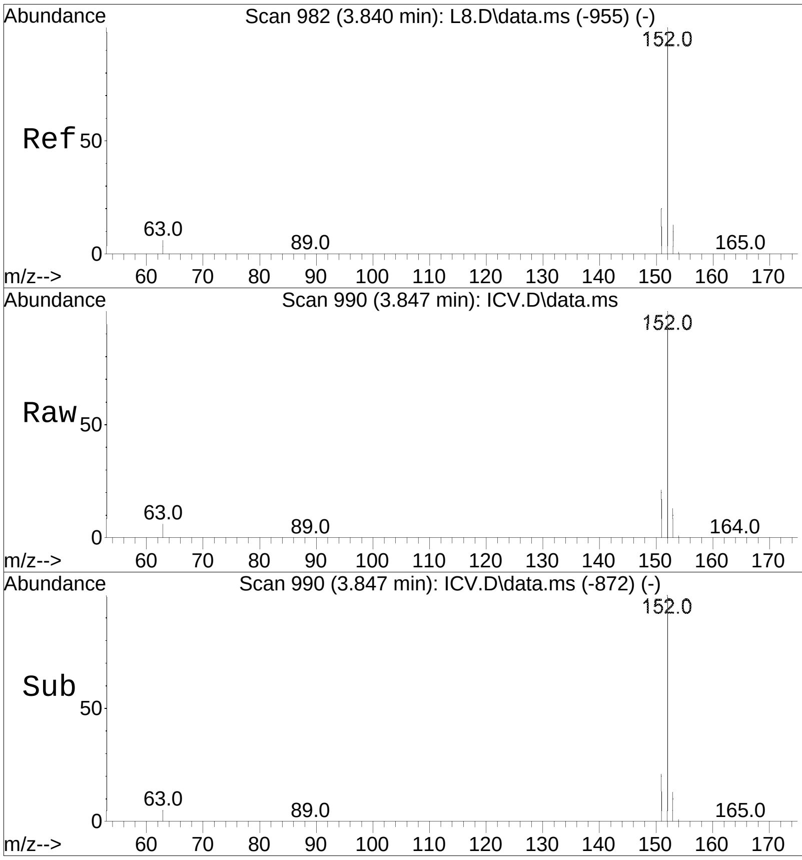



#15
2,6-Dinitrotoluene
Concen: 953.06 ng/ml
RT: 3.805 min Scan# 944
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:165 Resp: 28596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 70.1 | 44.0 | 66.0# |
| 63 | 69.0 | 47.5 | 71.3 |

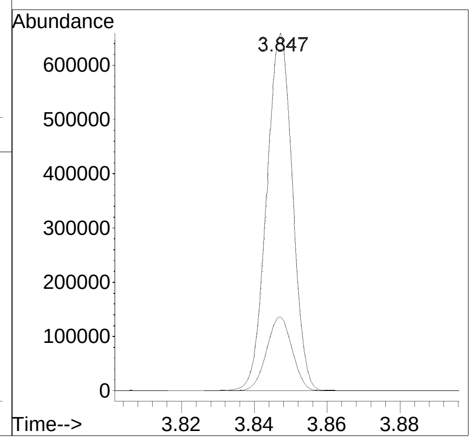


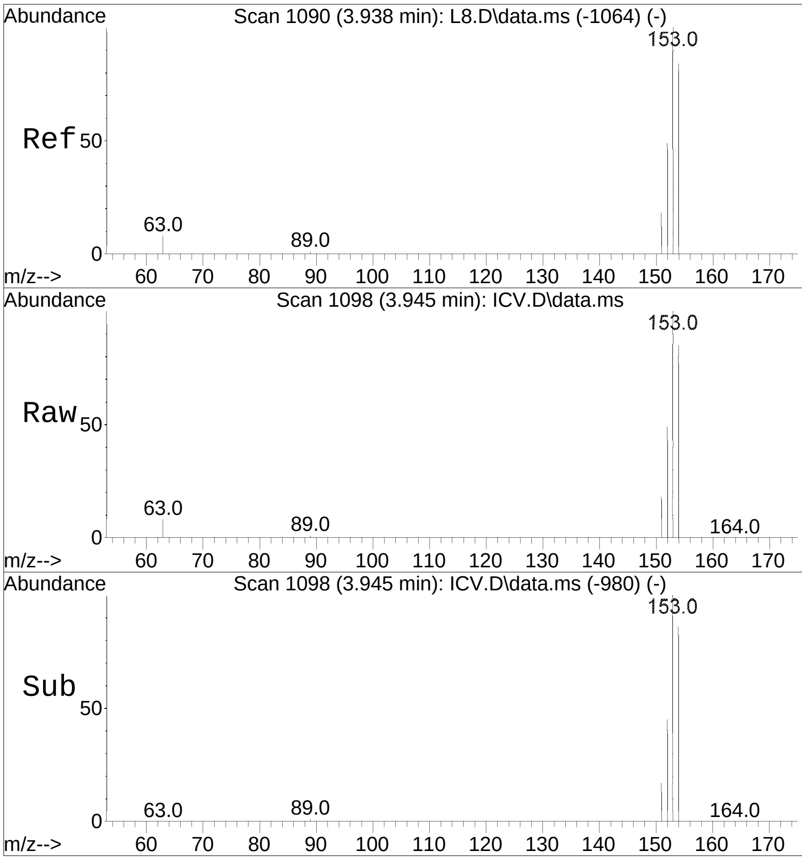



#16
Acenaphthylene
Concen: 982.18 ng/ml
RT: 3.847 min Scan# 990
Delta R.T. 0.007 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:152 Resp: 322323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.5 | 16.2 | 24.2 |

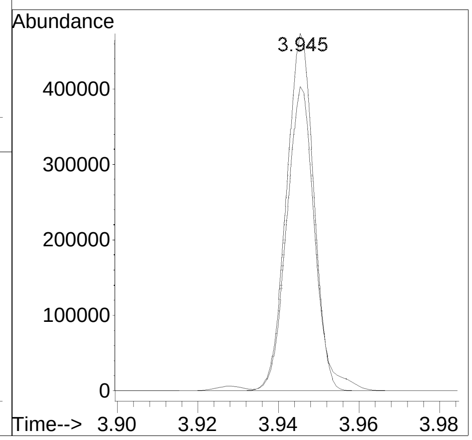


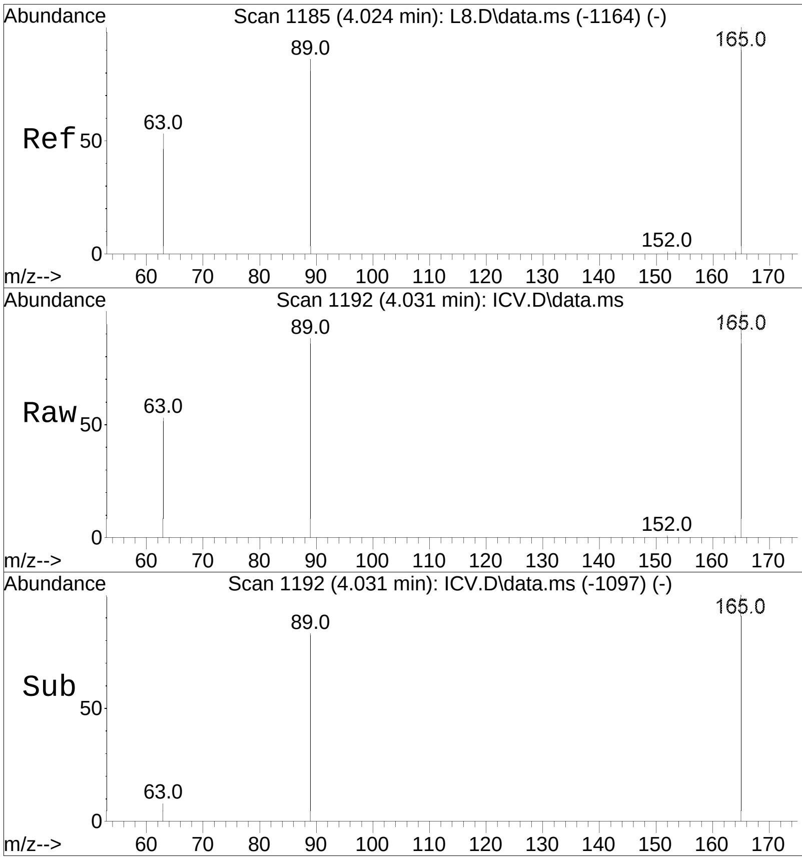



#18
Acenaphthene
Concen: 918.02 ng/ml
RT: 3.945 min Scan# 1098
Delta R.T. 0.007 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:153 Resp: 221633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 153 | 100 | | |
| 154 | 88.2 | 68.2 | 102.4 |

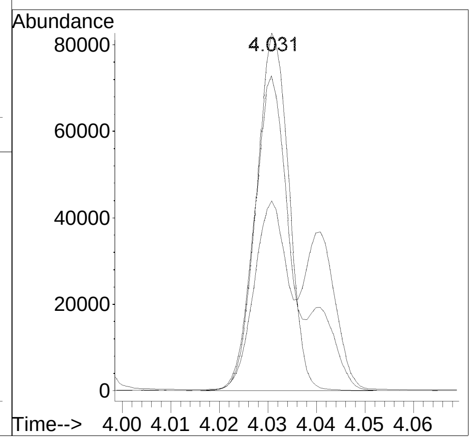


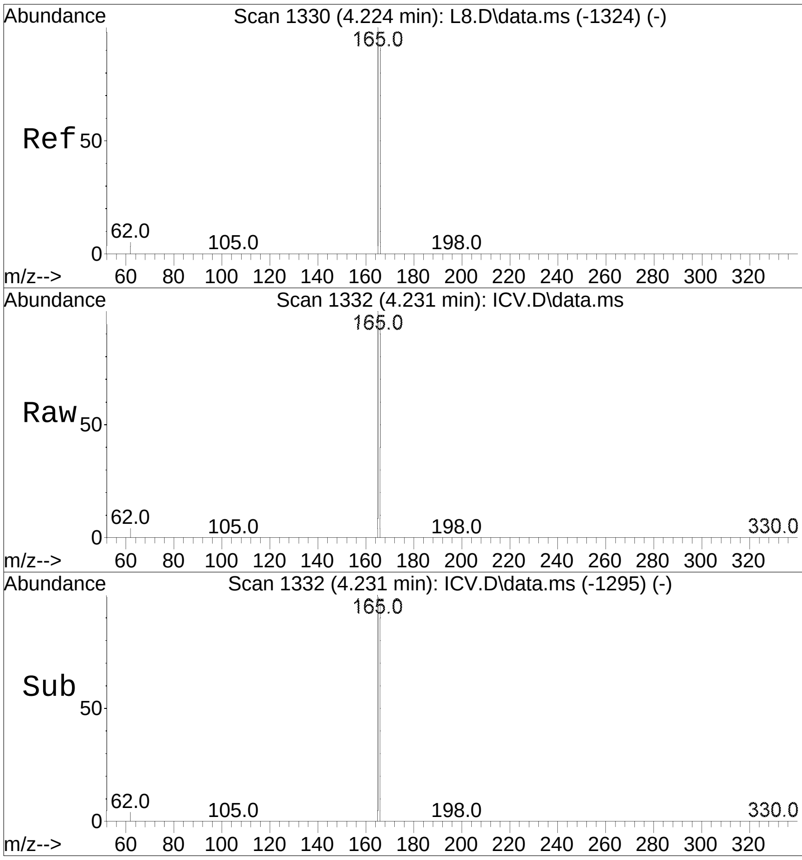



#19
2,4-Dinitrotoluene
Concen: 839.44 ng/ml
RT: 4.031 min Scan# 1192
Delta R.T. 0.007 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:165 Resp: 38286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 92.1 | 64.6 | 96.8 |
| 63 | 52.9 | 56.5 | 84.7# |

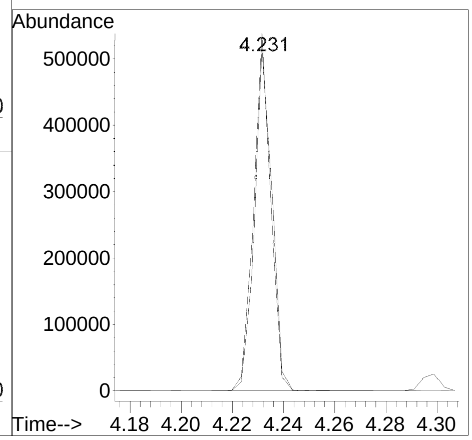


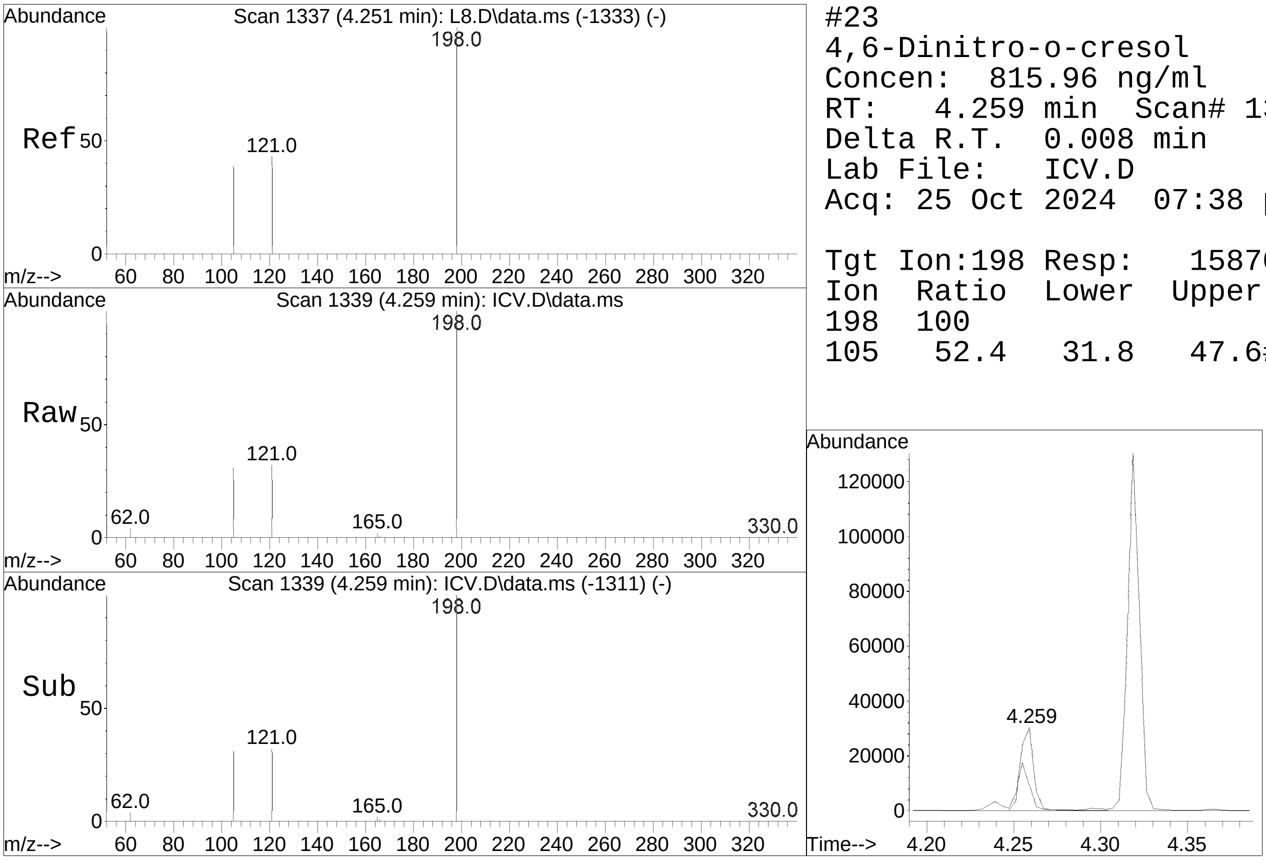



#20
Fluorene
Concen: 948.74 ng/ml
RT: 4.231 min Scan# 1332
Delta R.T. 0.007 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:166 Resp: 244027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 101.9 | 80.5 | 120.7 |

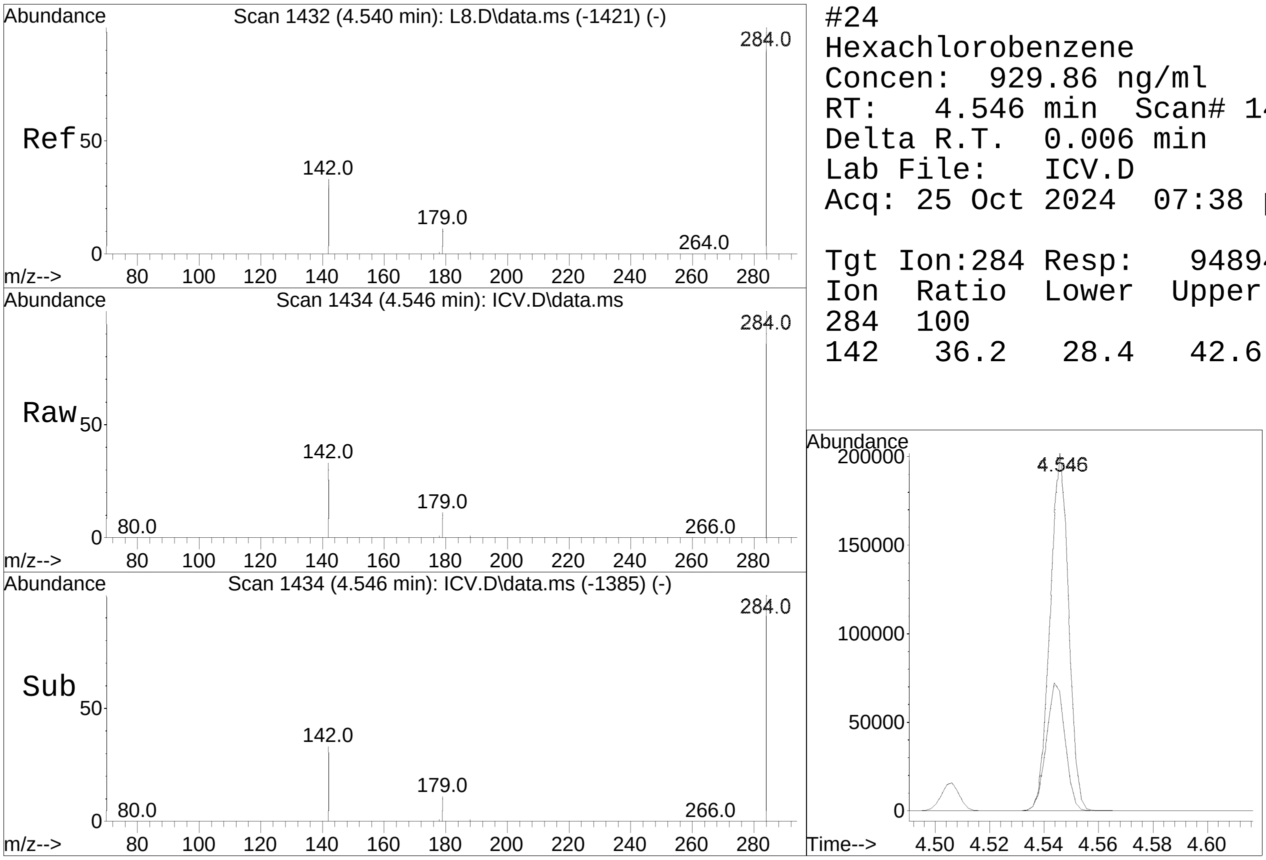





#23
4,6-Dinitro-o-cresol
Concen:  815.96 ng/ml
RT:    4.259 min  Scan# 1339
Delta R.T.  0.008 min
Lab File:   ICV.D
Acq: 25 Oct 2024  07:38 pm

Tgt Ion:198 Resp:   15870

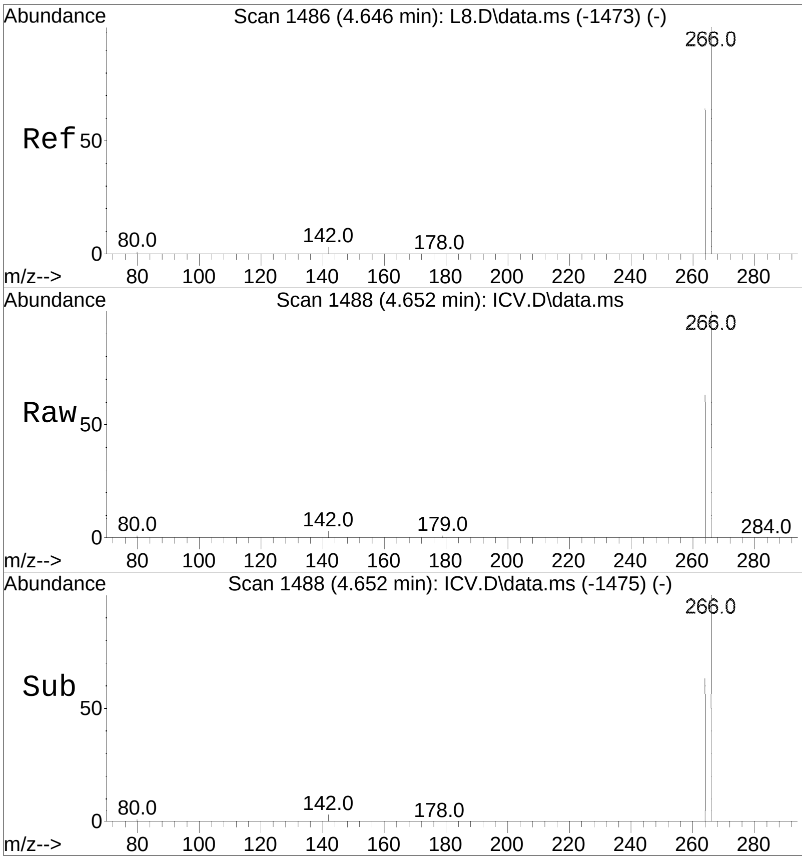
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 105 | 52.4 | 31.8 | 47.6# |




#24
Hexachlorobenzene
Concen: 929.86 ng/ml
RT: 4.546 min Scan# 1434
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:284 Resp: 94894

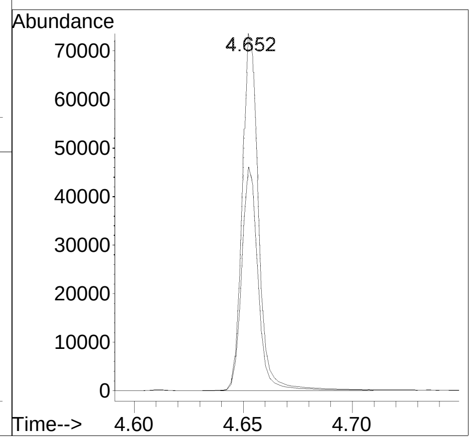
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 36.2 | 28.4 | 42.6 |

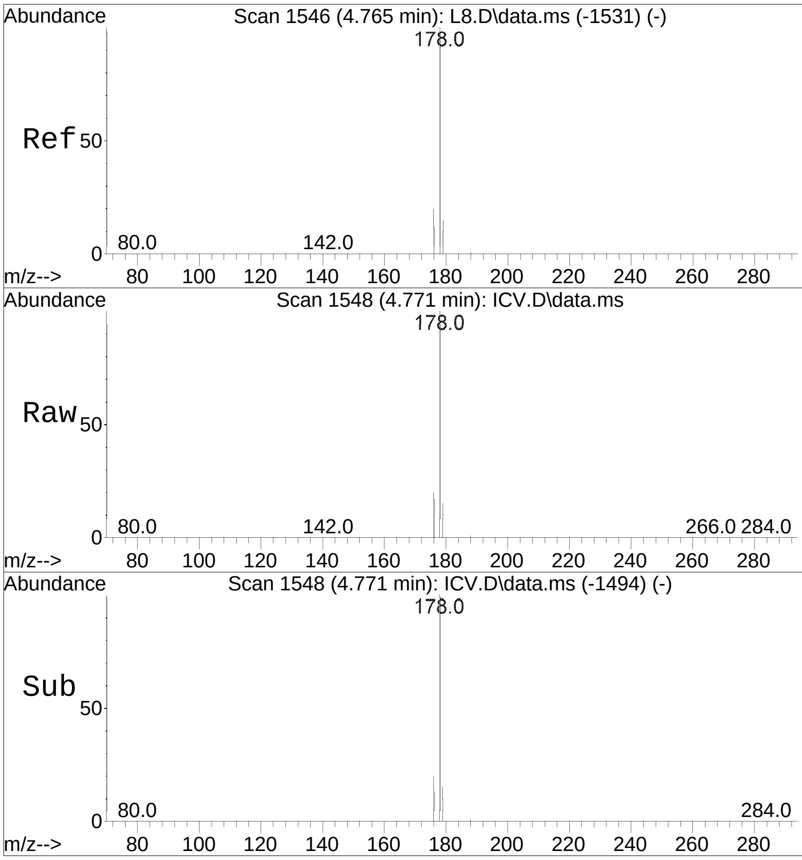



#25
Pentachlorophenol
Concen: 1012.48 ng/ml M2
RT: 4.652 min Scan# 1488
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:266 Resp: 38433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 0.0 | 50.6 | 76.0# |

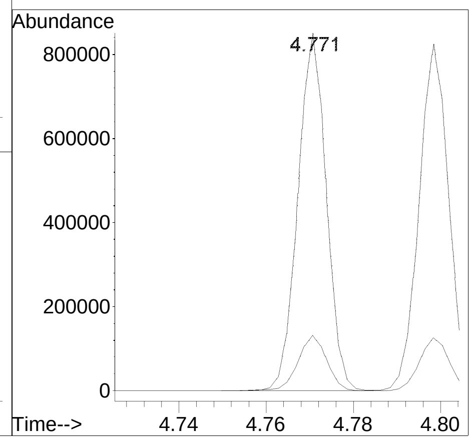


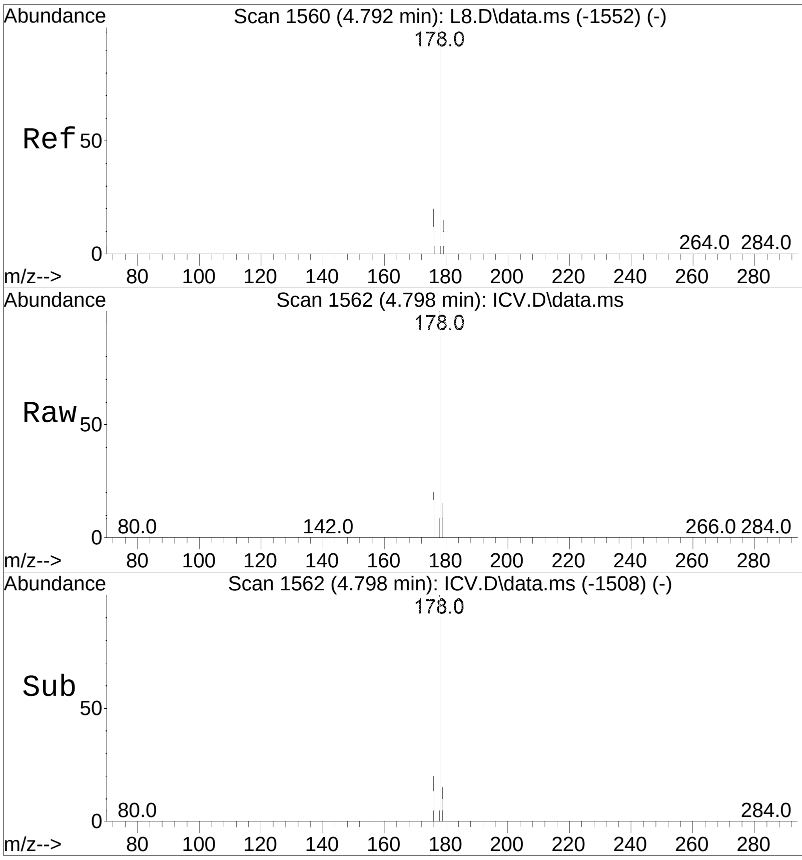



#26
Phenanthrene
Concen: 914.95 ng/ml M3
RT: 4.771 min Scan# 1548
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:178 Resp: 385001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.7 | 12.5 | 18.7 |

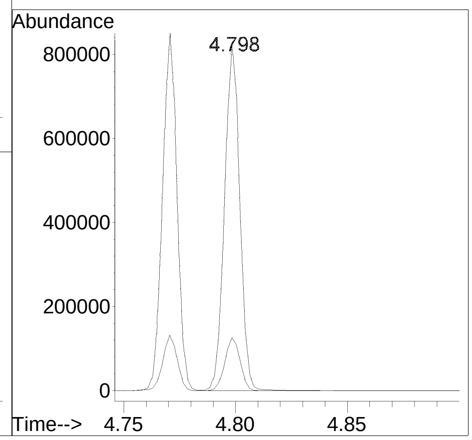


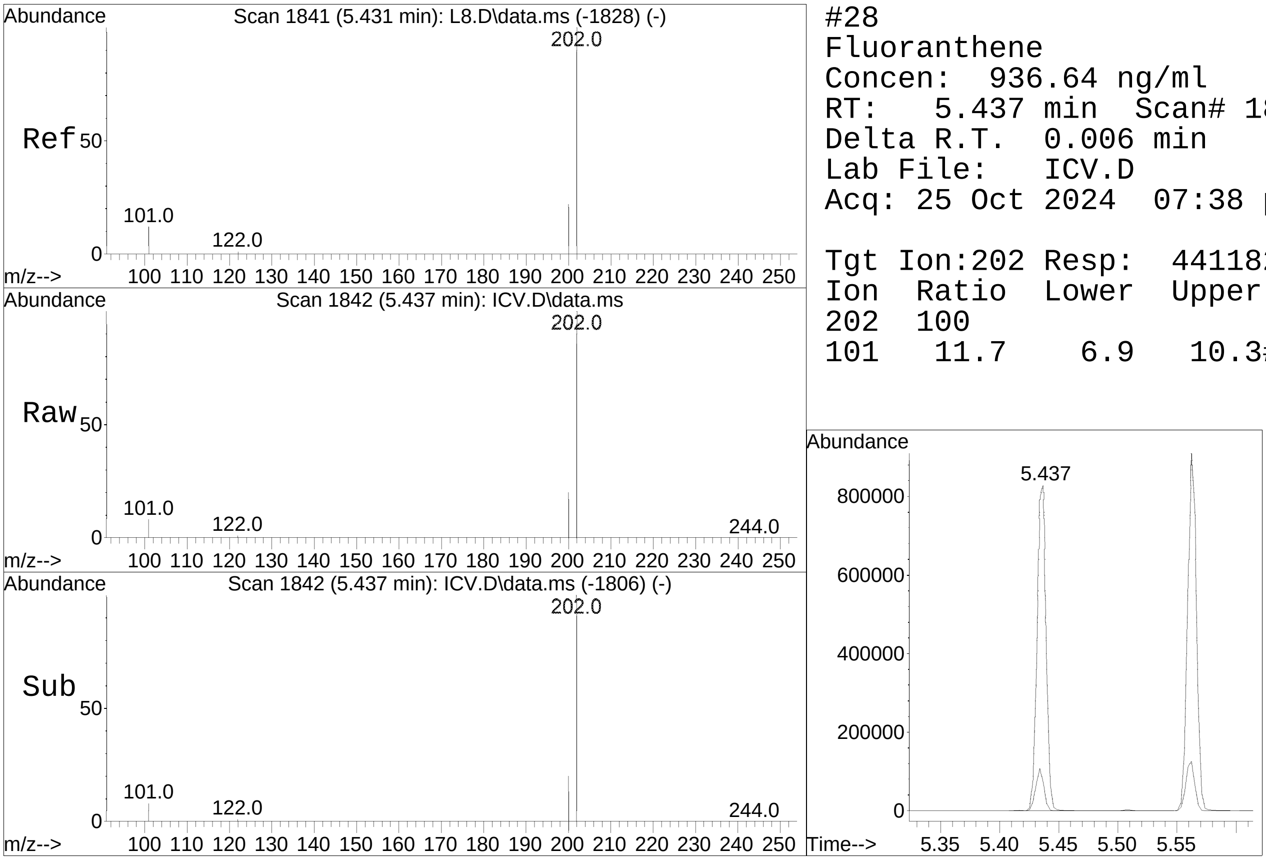



#27
Anthracene
Concen: 948.52 ng/ml
RT: 4.798 min Scan# 1562
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:178 Resp: 391693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.4 | 12.5 | 18.7 |

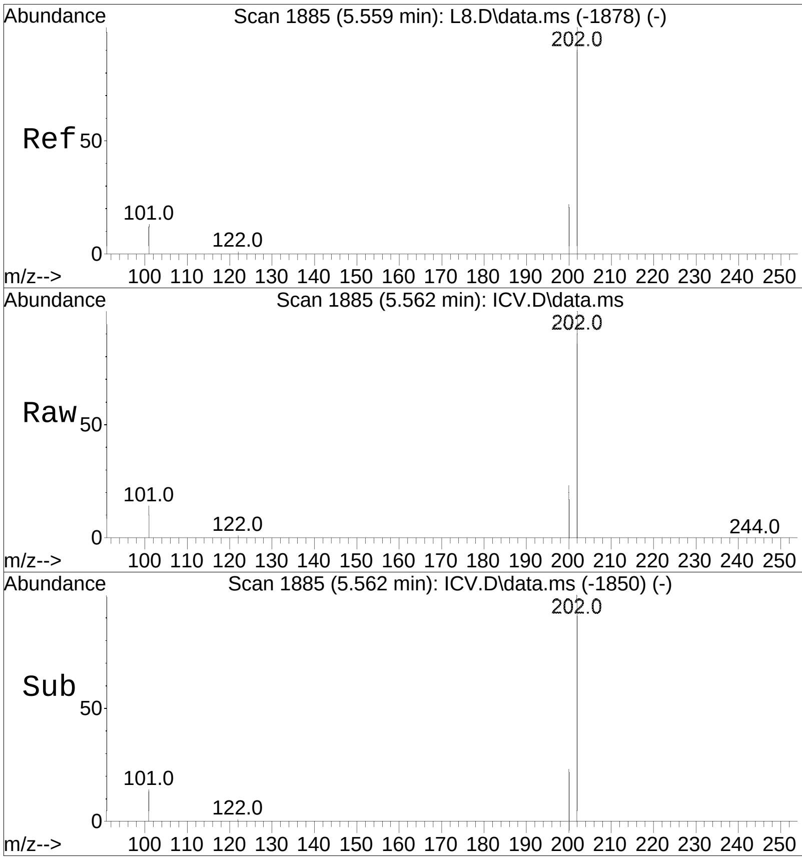





#28
Fluoranthene
Concen: 936.64 ng/ml
RT: 5.437 min Scan# 1842
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:202 Resp: 441182

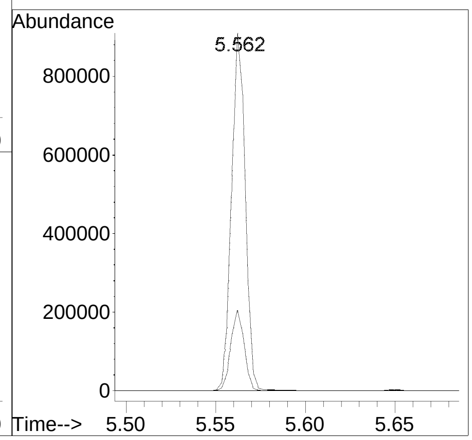
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.7 | 6.9 | 10.3# |

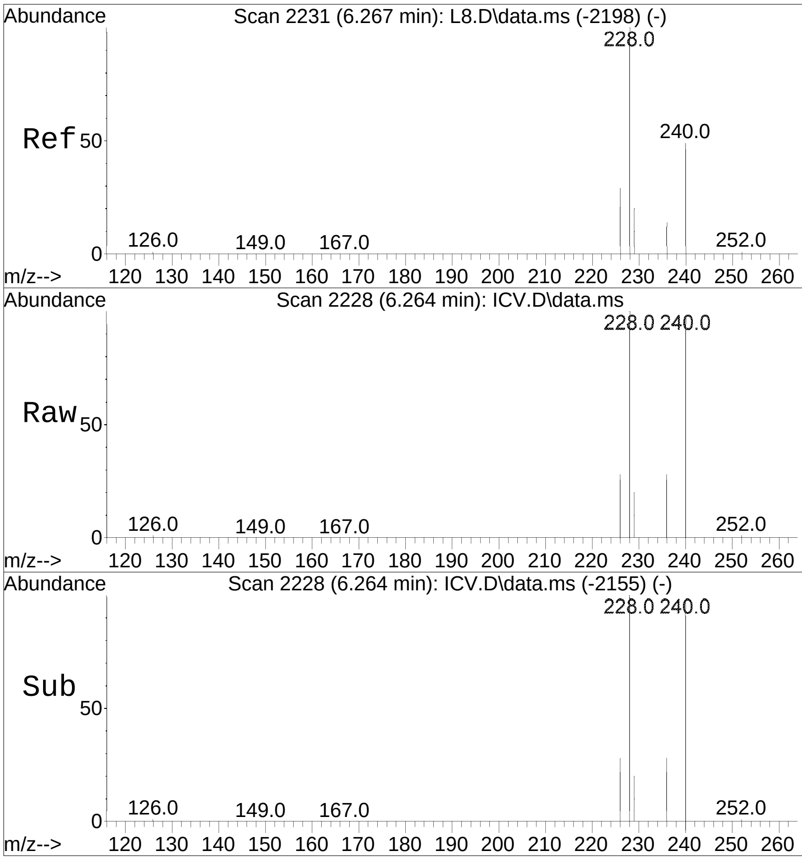



#29
Pyrene
Concen: 952.78 ng/ml
RT: 5.562 min Scan# 1885
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:202 Resp: 476733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.1 | 17.4 | 26.0 |

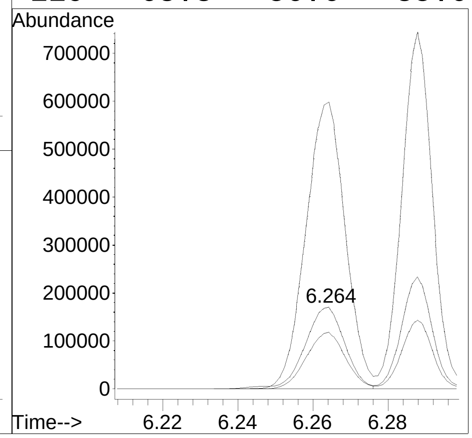


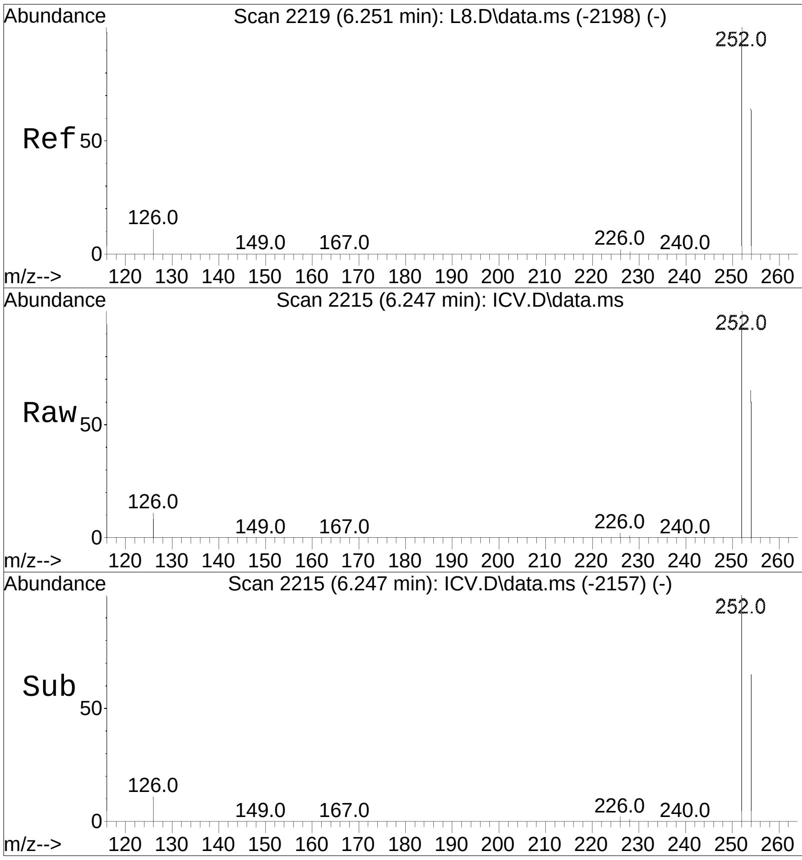



#32
Benzo[a]anthracene
Concen: 855.11 ng/ml
RT: 6.264 min Scan# 2228
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:226 Resp: 125600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 226 | 100 | | |
| 227 | 0.0 | 0.0 | 0.0 |
| 228 | 345.9 | 284.1 | 426.1 |
| 229 | 68.3 | 56.6 | 85.0 |

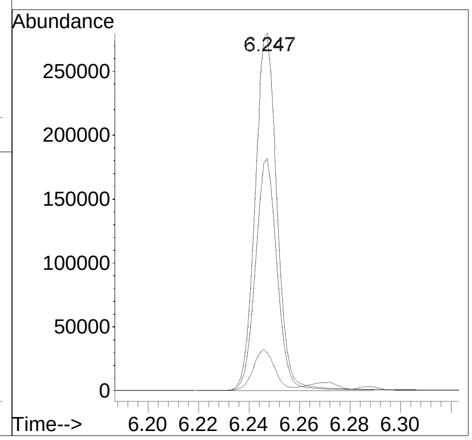


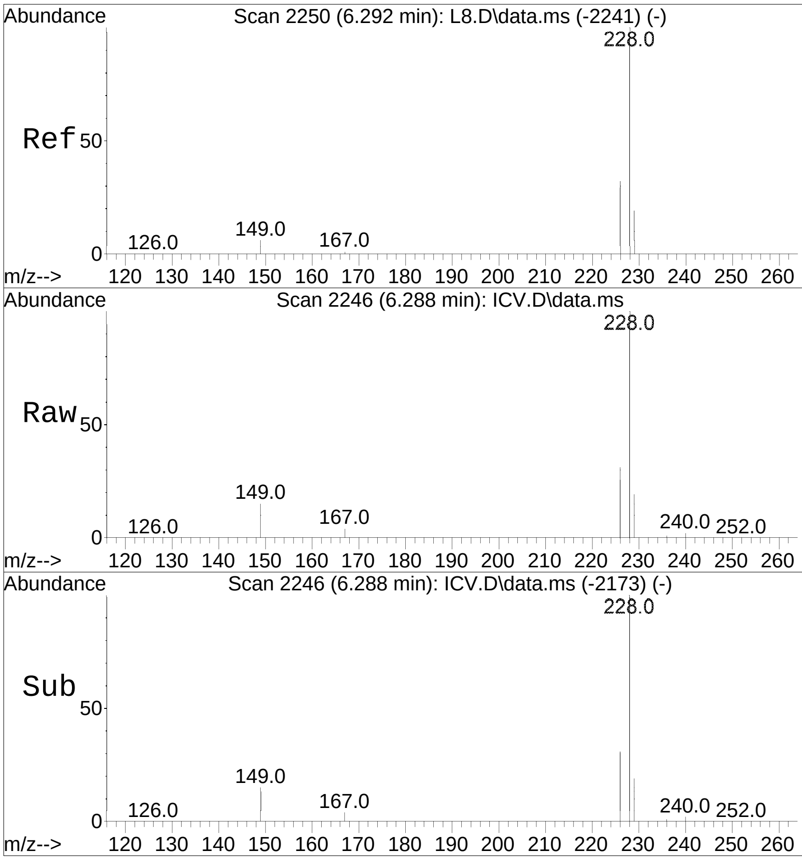



#33
3,3'-Dichlorobenzidine
Concen: 1066.32 ng/ml
RT: 6.247 min Scan# 2215
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:252 Resp: 166953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 126 | 11.3 | 11.3 | 16.9 |
| 254 | 64.6 | 51.4 | 77.0 |

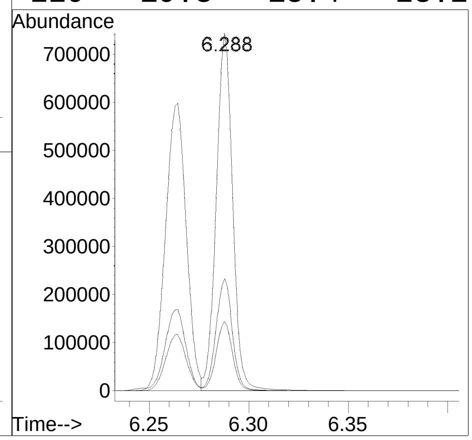


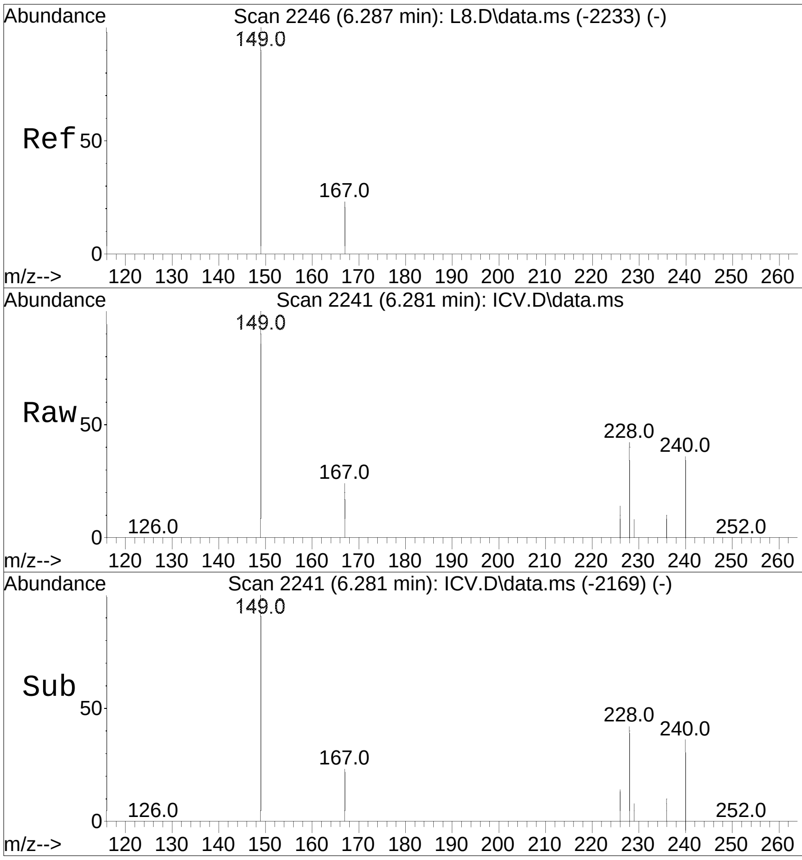



#34
Chrysene
Concen: 943.47 ng/ml
RT: 6.288 min Scan# 2246
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:228 Resp: 426866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.2 | 24.6 | 36.8 |
| 227 | 0.0 | 0.0 | 0.0 |
| 229 | 19.3 | 15.4 | 23.2 |

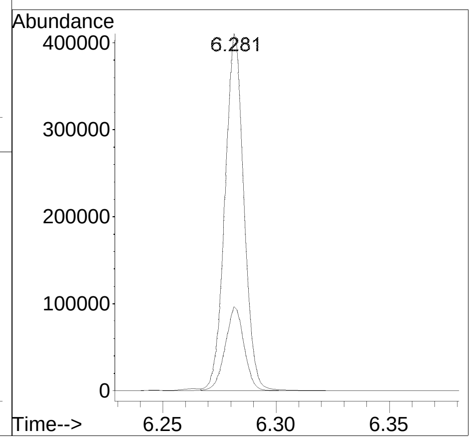


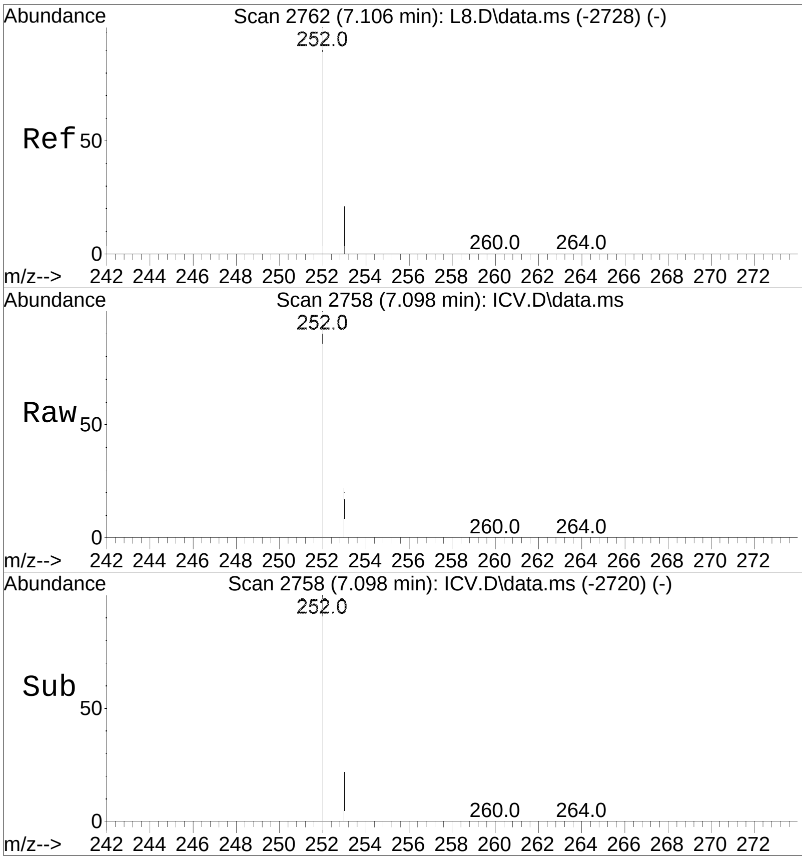



#35
Bis(2-ethylhexyl)phthalate
Concen: 907.51 ng/ml
RT: 6.281 min Scan# 2241
Delta R.T. -0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:149 Resp: 236774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 23.4 | 20.6 | 31.0 |

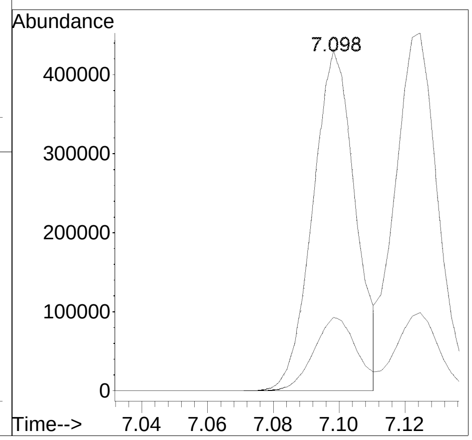


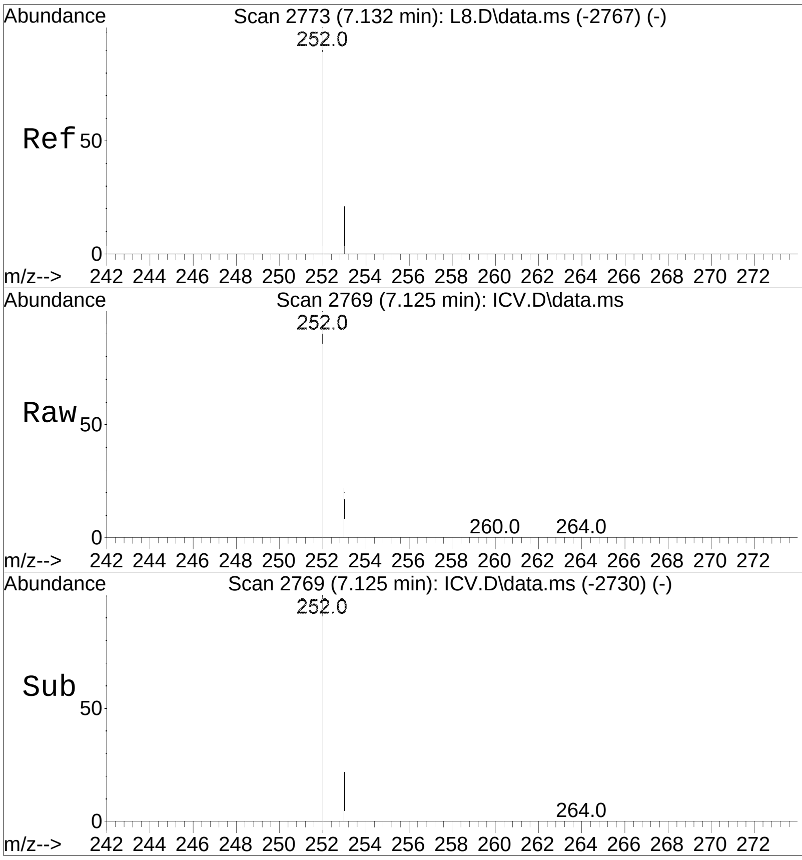



#37
Benzo[b]fluoranthene
Concen: 962.58 ng/ml
RT: 7.098 min Scan# 2758
Delta R.T. -0.008 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:252 Resp: 386845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.7 | 17.6 | 26.4 |

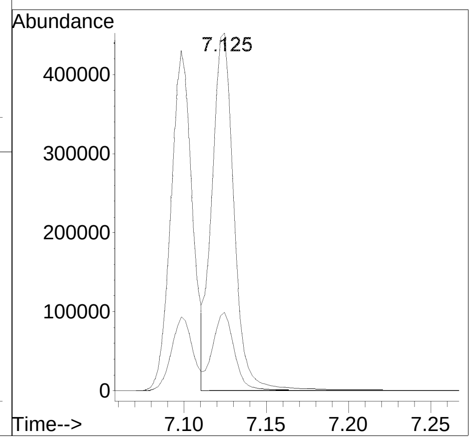


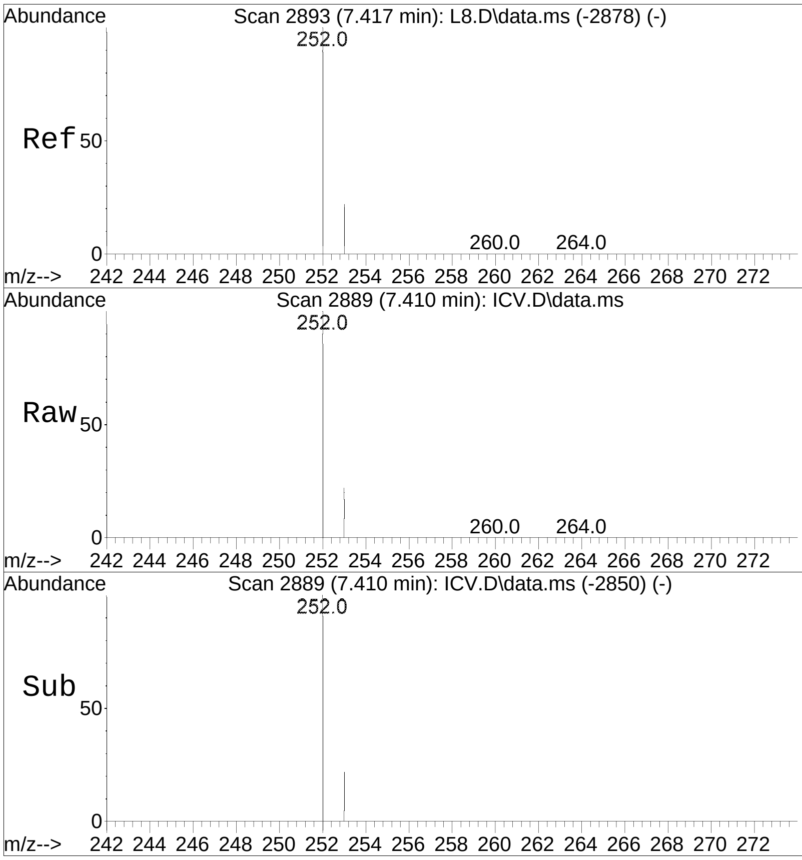



#38
Benzo[k]fluoranthene
Concen: 984.26 ng/ml
RT: 7.125 min Scan# 2769
Delta R.T. -0.007 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:252 Resp: 419398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 17.6 | 26.4 |

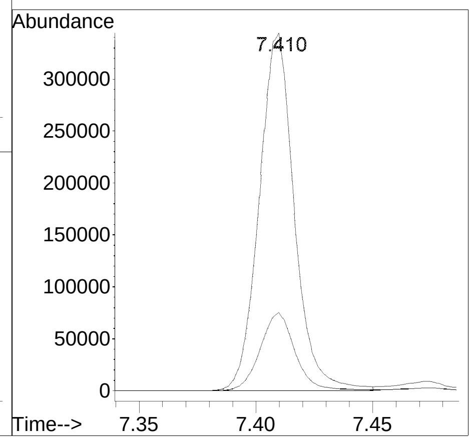


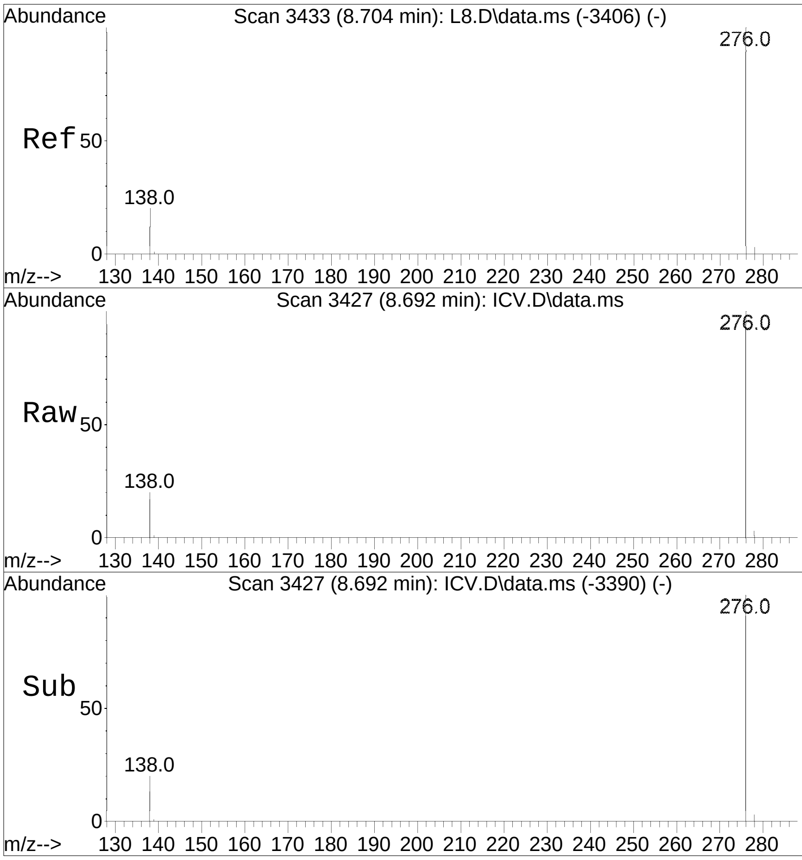



#39
Benzo[a]pyrene
Concen: 1003.79 ng/ml
RT: 7.410 min Scan# 2889
Delta R.T. -0.007 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:252 Resp: 356399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.7 | 17.5 | 26.3 |

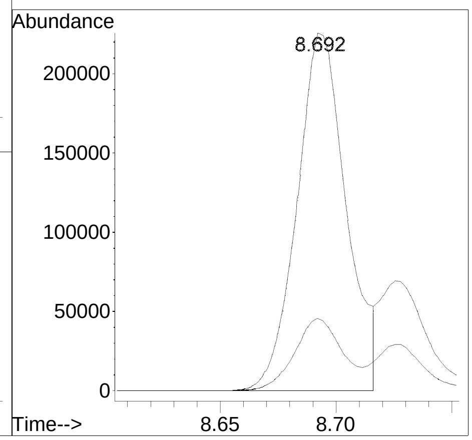


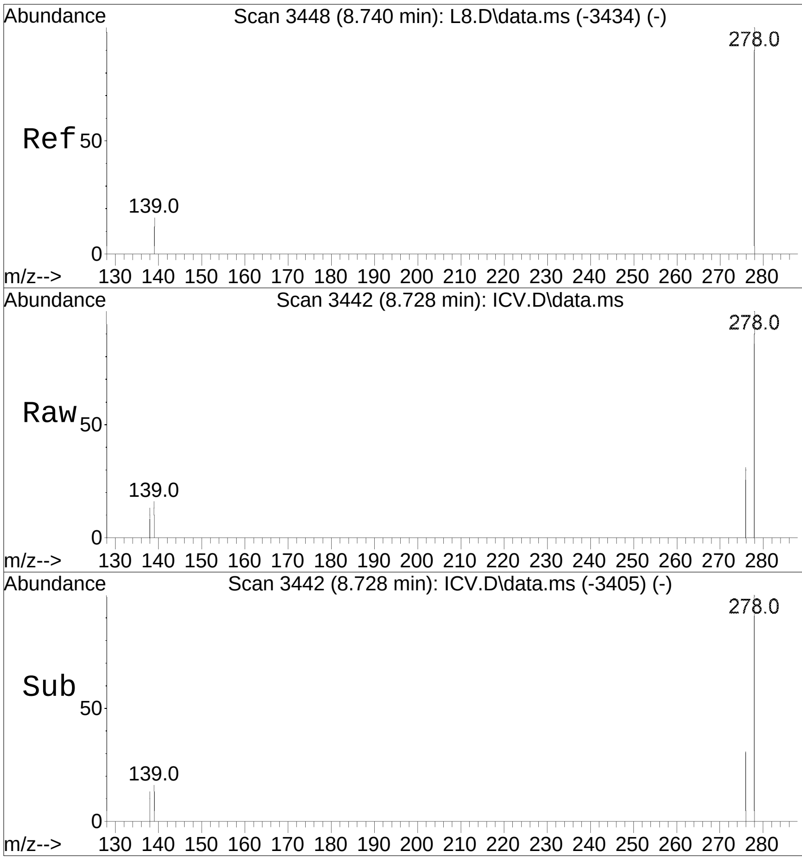



#40
Indeno[1,2,3-cd]pyrene
Concen: 1002.15 ng/ml
RT: 8.692 min Scan# 3427
Delta R.T. -0.012 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:276 Resp: 331722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 19.7 | 11.8 | 17.6# |

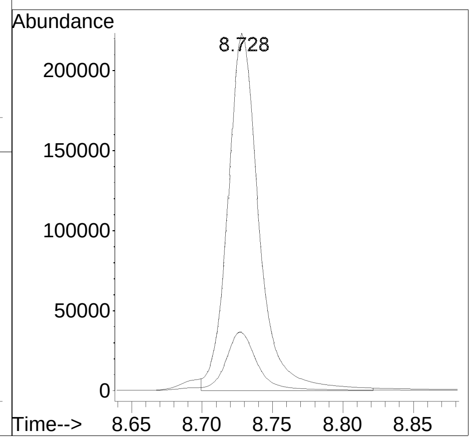


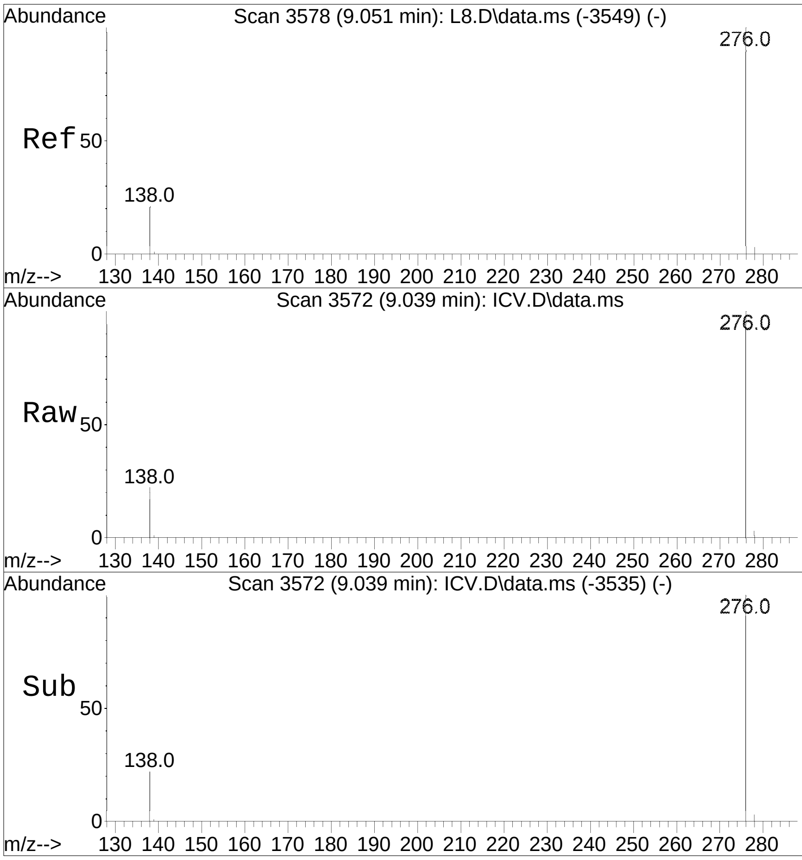



#41
Dibenzo[a,h]anthracene
Concen: 1018.90 ng/ml M6
RT: 8.728 min Scan# 3442
Delta R.T. -0.012 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:278 Resp: 343322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 17.0 | 9.8 | 14.8# |

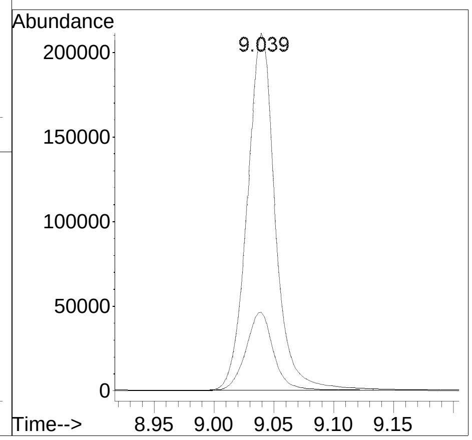





#42
Benzo[g,h,i]perylene
Concen: 984.59 ng/ml
RT: 9.039 min Scan# 3572
Delta R.T. -0.012 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:276 Resp: 341643

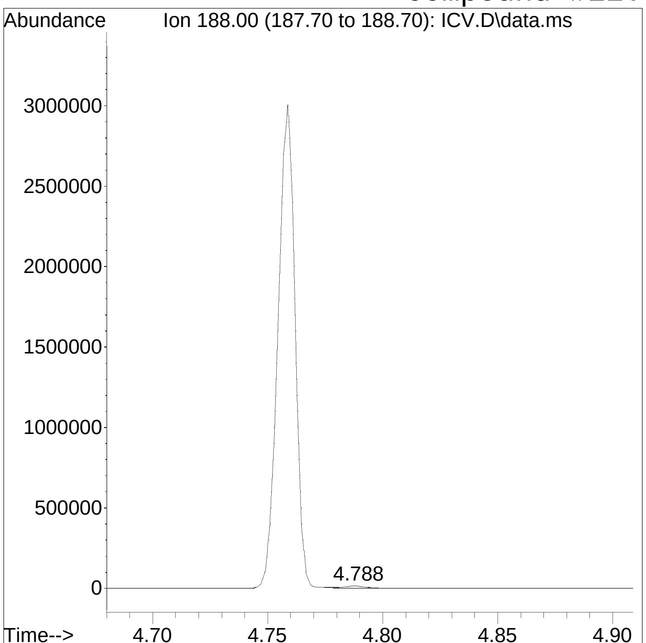
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 21.9 | 12.8 | 19.2# |

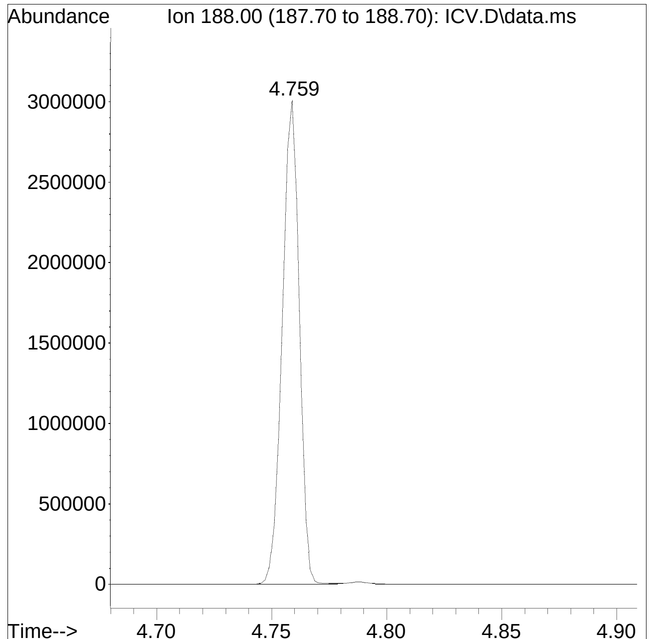


Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : ICV.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:38 pm Instrument : SV118
Sample : CQICV,32,, #10884 1000 ng/Quant Date : 12/4/2024 11:32 am

Compound #22: Phenanthrene-d10



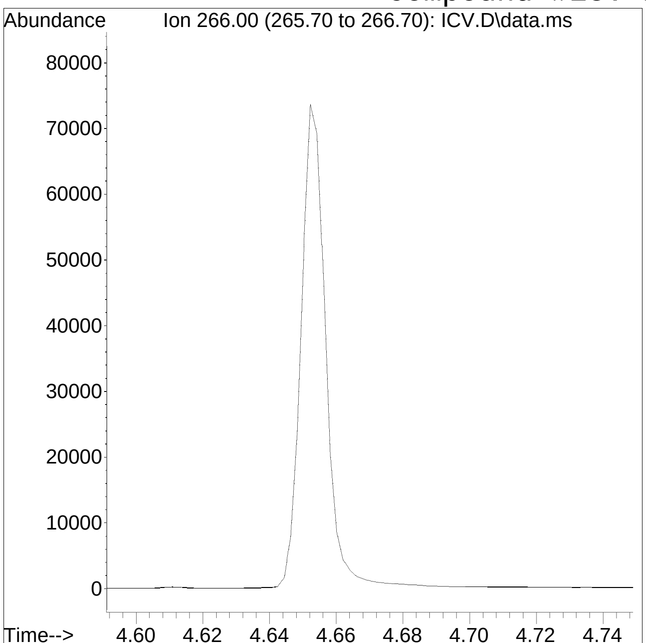

Original Peak Response = 11239 Manual Peak Response = 1550049 M3

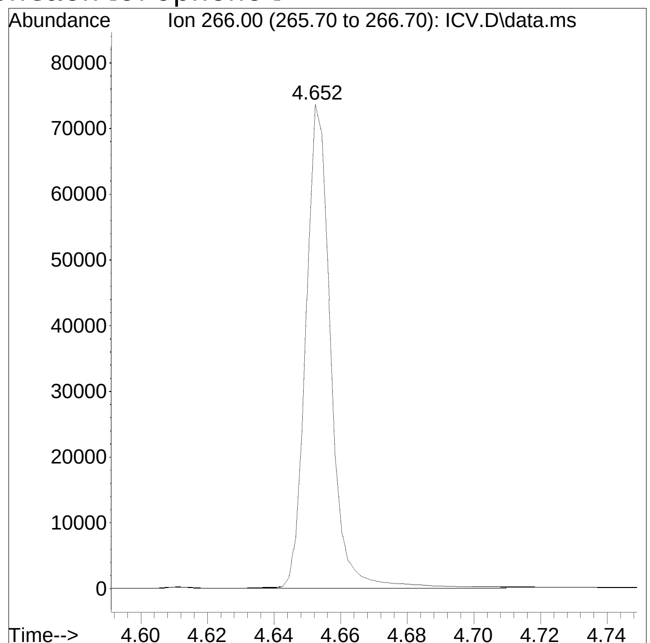
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : ICV.D                    Operator    : SV118:dv
Date Inj'd  : 10/25/2024  7:38 pm      Instrument  : SV118
Sample      : CQICV,32,, #10884 1000 ng/Quant Date  : 12/4/2024 11:32 am
```

Compound #25: Pentachlorophenol



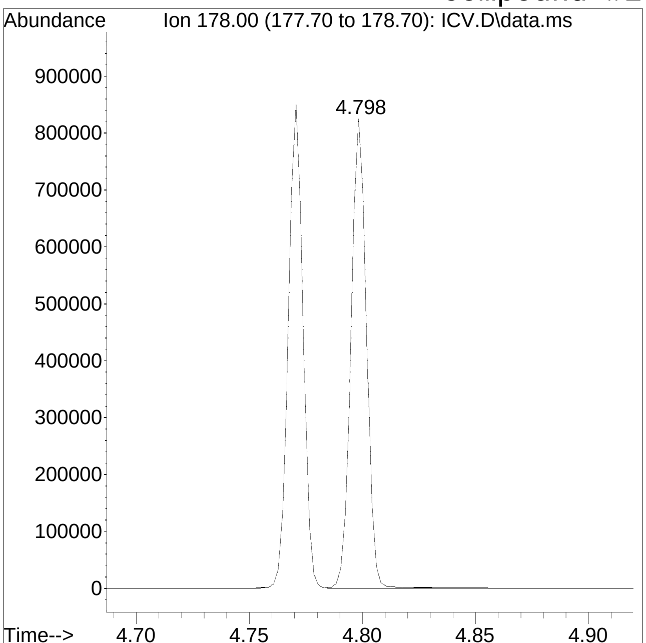

Original Peak Response = 0          Manual Peak Response = 38433 M2

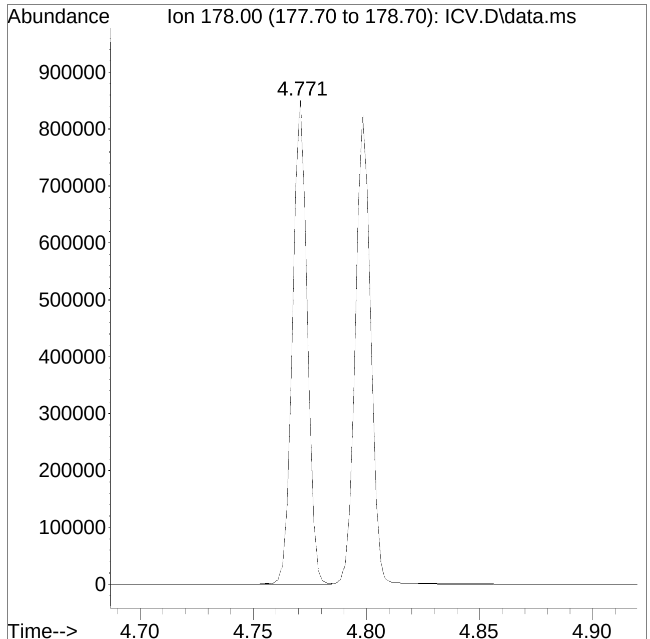
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

```
Data Path   : I:\8270SIM\SV118\2024\2410QMethod     : SIM-RVT_241025sv118.M
Data File   : ICV.D                    Operator    : SV118:dv
Date Inj'd  : 10/25/2024  7:38 pm      Instrument  : SV118
Sample      : CQICV,32,, #10884 1000 ng/Quant Date  : 12/4/2024 11:32 am
```

Compound #26: Phenanthrene



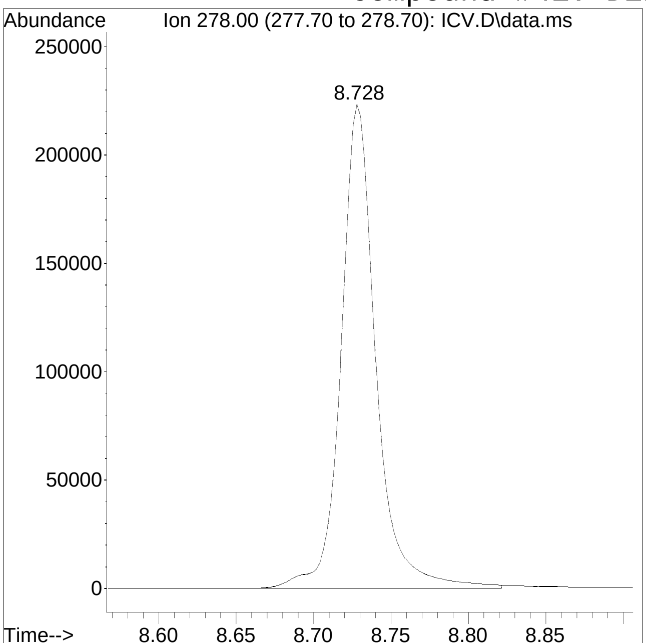

Original Peak Response = 391617 Manual Peak Response = 385001 M3

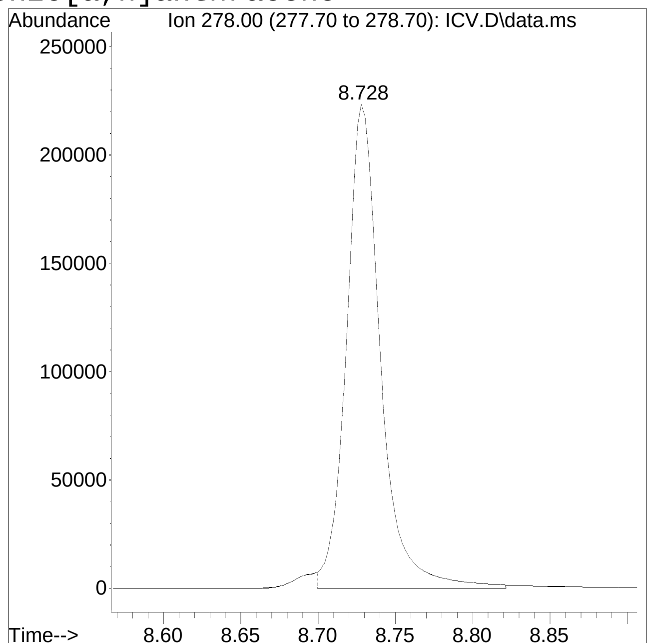
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : ICV.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:38 pm Instrument : SV118
Sample : CQICV,32,, #10884 1000 ng/Quant Date : 12/4/2024 11:32 am

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 350033 Manual Peak Response = 343322 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Relative Error Report SV118

Method Path : I:\8270SIM\SV118\241025RVTical\
Method File : SIM-RVT_241025sv118.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Oct 28 11:02:57 2024

| COMPOUND | CalFit | Units | TrueMid | MidConc | %RE | TrueLow | LowConc | %RE |
|---|---|---|---|---|---|---|---|---|
| 4 T Bis(2-chloroethyl)ether | L | ng/ml | 1000.0 | 1019.044 | 1.9 | 5.00 | 2.976 | -40.5 |
| 19 T 2,4-Dinitrotoluene | L | ng/ml | 1000.0 | 932.864 | -6.7 | 40.00 | 46.482 | 16.2 |
| 23 T 4,6-Dinitro-o-cresol | L | ng/ml | 1000.0 | 927.565 | -7.2 | 40.00 | 46.224 | 15.6 |

Calibration Correlation Report

| COMPOUND | CalFit | CoefOfDet | QuadTerm | LinTerm | Constant |
|---|---|---|---|---|---|
| 4 T Bis(2-chloroethyl)ether | Linear | 0.994856 | 0.000000 | 1.18217 | 0.000723717 |
| 19 T 2,4-Dinitrotoluene | Linear | 0.997765 | 0.000000 | 0.254615 | -0.00159123 |
| 23 T 4,6-Dinitro-o-cresol | Linear | 0.997228 | 0.000000 | 0.0517324 | -0.000314499 |

Response Factor Report SV120

Method Path : I:\8270SIM\sv120\2024\241105RVTical\
Method File : SIM-RVT_241105_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Dec 02 11:35:31 2024
Response Via : Initial Calibration

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.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 | 1.181 | 1.270 | 1.198 | 1.168 | 1.150 | 1.414 | 1.190 | 1.156 | 1.049 | 0.996 | 1.177 | 9.65 |
| 3) | s | Phenol-d6 | 1.421 | 1.476 | 1.368 | 1.383 | 1.366 | 1.703 | 1.420 | 1.437 | 1.475 | 1.418 | 1.447 | 6.78 |
| 4) | T | bis(2-Chloroethyl)ether | | | | 1.180 | 1.209 | 2.019 | 1.197 | 1.185 | 1.180 | 1.103 | *Q | 0.9949 |
| 5) | T | n-Nitrosodi-n-propylamine | | | 0.854 | 0.813 | 0.816 | 1.027 | 0.852 | 0.871 | 0.891 | 0.856 | 0.873 | 7.74 |
| 6) | t | Hexachloroethane | | | 0.519 | 0.505 | 0.501 | 0.629 | 0.518 | 0.518 | 0.510 | 0.489 | 0.524 | 8.39 |
| 7) | s | Nitrobenzene-d5 | | 1.243 | 1.235 | 1.219 | 1.224 | 1.533 | 1.264 | 1.279 | 1.280 | 1.217 | 1.277 | 7.74 |
| 8) | i | Naphthalene-d8 | ----------------ISTD--------------------- | | | | | | | | | | | |
| 9) | t | Naphthalene | | 1.154 | 1.028 | 0.974 | 0.957 | 1.173 | 0.960 | 0.947 | 0.931 | 0.876 | 1.000 | 10.10 |
| 10) | t | Hexachlorobutadiene | | 0.205 | 0.193 | 0.186 | 0.183 | 0.223 | 0.185 | 0.182 | 0.179 | 0.169 | 0.189 | 8.32 |
| 11) | t | 2-Methylnaphthalene | 0.742 | 0.741 | 0.698 | 0.667 | 0.660 | 0.818 | 0.683 | 0.665 | 0.652 | 0.615 | 0.694 | 8.43 |
| 12) | t | 1-Methylnaphthalene | 0.669 | 0.683 | 0.649 | 0.619 | 0.615 | 0.762 | 0.623 | 0.606 | 0.597 | 0.563 | 0.639 | 8.75 |
| 13) | s | 2-Fluorobiphenyl | 0.894 | 0.876 | 0.822 | 0.801 | 0.797 | 0.977 | 0.778 | 0.744 | 0.711 | 0.663 | 0.806 | 11.41 |
| 14) | t | 2-Chloronaphthalene | 0.738 | 0.750 | 0.700 | 0.668 | 0.667 | 0.819 | 0.662 | 0.644 | 0.636 | 0.607 | 0.689 | 9.21 |
| 15) | t | 2,6-Dinitrotoluene | | | | | 0.130 | 0.170 | 0.150 | 0.152 | 0.156 | 0.178 | 0.156 | 10.83 |
| 16) | t | Acenaphthylene | 1.010 | 1.049 | 0.959 | 0.925 | 0.938 | 1.190 | 1.000 | 0.977 | 0.969 | 0.920 | 0.994 | 8.04 |
| 17) | i | Acenaphthene-d10 | ----------------ISTD--------------------- | | | | | | | | | | | |
| 18) | t | Acenaphthene | 1.347 | 1.308 | 1.174 | 1.193 | 1.153 | 1.415 | 1.141 | 1.136 | 1.136 | 1.070 | 1.207 | 9.18 |
| 19) | t | 2,4-Dinitrotoluene | | | | | 0.256 | 0.367 | 0.337 | 0.352 | 0.361 | 0.342 | 0.336 | 12.13 |
| 20) | t | Fluorene | 1.402 | 1.403 | 1.274 | 1.250 | 1.256 | 1.565 | 1.273 | 1.266 | 1.229 | 1.146 | 1.306 | 9.07 |
| 21) | s | 2,4,6-Tribromophenol | | 0.150 | 0.143 | 0.137 | 0.146 | 0.193 | 0.166 | 0.167 | 0.170 | 0.163 | 0.159 | 10.79 |
| 22) | i | Phenanthrene-d10 | ----------------ISTD--------------------- | | | | | | | | | | | |
| 23) | T | 4,6-Dinitro-o-cresol | | | | | 0.068 | 0.099 | 0.102 | 0.111 | 0.123 | 0.121 | *L | 0.9983 |
| 24) | t | Hexachlorobenzene | | 0.234 | 0.216 | 0.207 | 0.203 | 0.251 | 0.206 | 0.202 | 0.198 | 0.185 | 0.211 | 9.43 |
| 25) | t | Pentachlorophenol | | | | 0.076 | 0.087 | 0.082 | 0.094 | 0.113 | 0.133 | 0.133 | *Q | 0.9965 |
| 26) | t | Phenanthrene | 0.797 | 0.930 | 0.897 | 0.967 | 0.944 | 1.205 | 0.973 | 0.954 | 0.959 | 0.906 | 0.953 | 10.75 |
| 27) | t | Anthracene | 1.028 | 1.011 | 0.975 | 0.933 | 0.932 | 1.179 | 0.975 | 0.972 | 0.964 | 0.894 | 0.986 | 7.91 |
| 28) | t | Fluoranthene | 1.259 | 1.192 | 1.089 | 1.028 | 1.038 | 1.304 | 1.063 | 1.044 | 1.018 | 0.943 | 1.098 | 10.54 |
| 29) | t | Pyrene | 1.281 | 1.229 | 1.126 | 1.073 | 1.071 | 1.358 | 1.099 | 1.079 | 1.035 | 0.970 | 1.132 | 10.60 |
| 30) | s | 4-Terphenyl-d14 | | 0.798 | 0.747 | 0.717 | 0.726 | 0.897 | 0.706 | 0.694 | 0.652 | 0.610 | 0.727 | 11.42 |
| 31) | i | Chrysene-d12 | ----------------ISTD--------------------- | | | | | | | | | | | |
| 32) | t | Benzo[a]anthracene | 1.294 | 0.717 | 0.357 | 0.229 | 0.142 | 0.152 | 0.126 | 0.121 | 0.126 | 0.120 | *L | 0.9993 |
| 33) | t | 3,3'-Dichlorobenzidine | | | | | 0.345 | 0.479 | 0.427 | 0.443 | 0.462 | 0.437 | 0.432 | 10.74 |
| 34) | t | Chrysene | 0.685 | 0.988 | 0.996 | 1.070 | 1.064 | 1.415 | 1.128 | 1.138 | 1.086 | 1.020 | 1.059 | 16.93 |
| 35) | T | bis(2-Ethylhexyl)phthalate | | | | | 0.540 | 0.722 | 0.670 | 0.719 | 0.806 | 0.789 | 0.708 | 13.59 |
| 36) | i | Perylene-d12 | ----------------ISTD--------------------- | | | | | | | | | | | |
| 37) | t | Benzo[b]fluora... | 1.252 | 1.299 | 1.184 | 1.114 | 1.162 | 1.380 | 1.210 | 1.168 | 1.203 | 1.165 | 1.214 | 6.42 |
| 38) | t | Benzo[k]fluora... | 1.121 | 1.055 | 1.039 | 1.002 | 0.950 | 1.351 | 1.152 | 1.129 | 1.123 | 0.990 | 1.091 | 10.44 |
| 39) | t | Benzo[a]pyrene | 0.971 | 0.979 | 0.914 | 0.884 | 0.897 | 1.184 | 1.039 | 1.022 | 1.055 | 0.995 | 0.994 | 8.96 |
| 40) | t | Indeno[1,2,3-c... | 0.987 | 1.003 | 0.945 | 0.921 | 0.931 | 1.205 | 1.059 | 1.033 | 1.046 | 1.036 | 1.017 | 8.15 |
| 41) | t | Dibenzo[a,h]anthracene | 0.936 | 0.951 | 0.893 | 0.882 | 0.912 | 1.198 | 0.992 | 0.963 | 0.922 | 0.900 | 0.955 | 9.59 |
| 42) | t | Benzo[g,h,i]pe... | 0.998 | 0.996 | 0.941 | 0.929 | 0.931 | 1.196 | 1.007 | 0.990 | 0.959 | 0.924 | 0.987 | 8.11 |

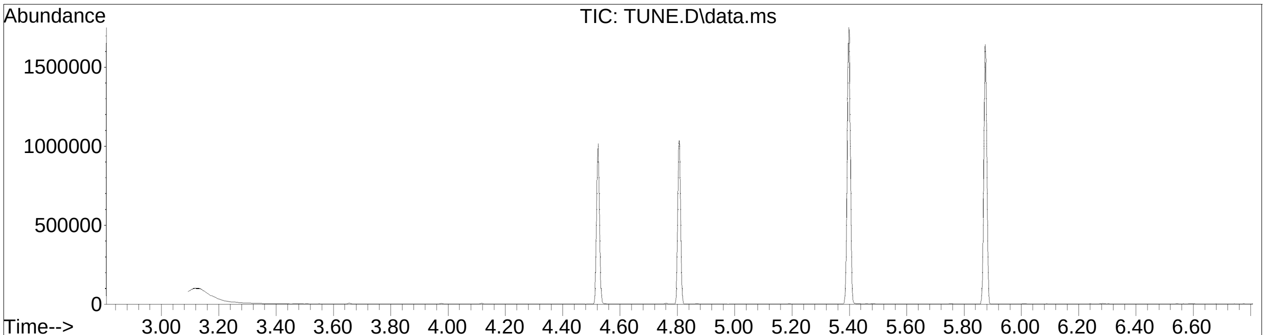
(#) = Out of Range

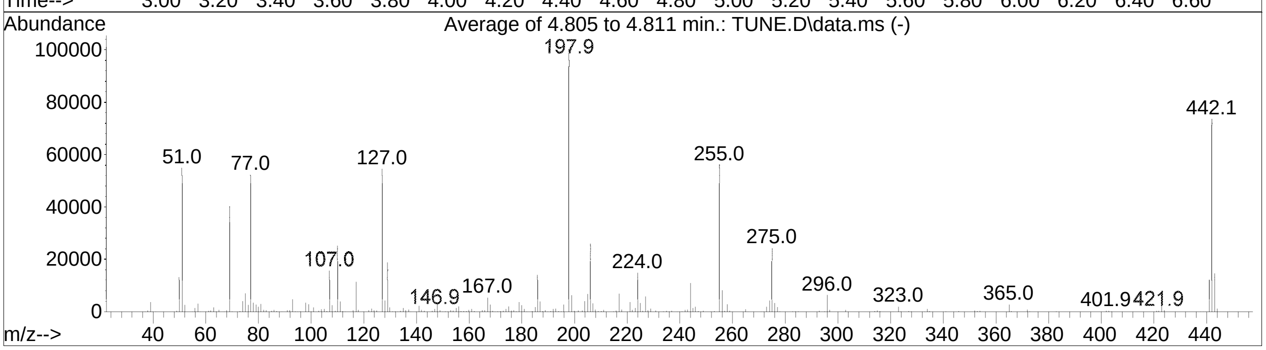
DFTPP

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : TUNE.D
Acq On : 05 Nov 2024 06:14 am
Operator : SV120:mrg
Sample : TUNE
Misc : WG1993471
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Nov 05 16:50:36 2024



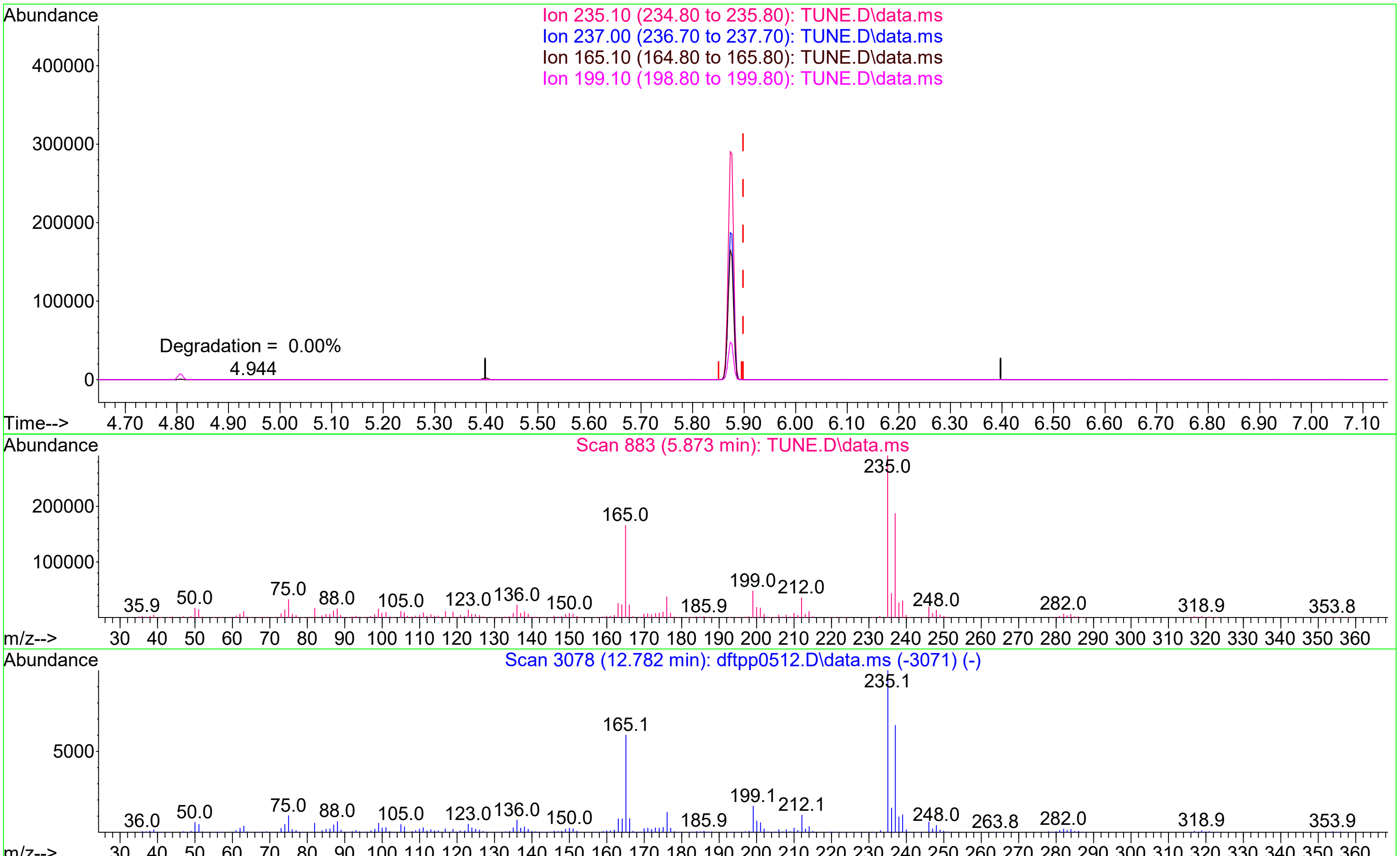

Spectrum Information: Average of 4.805 to 4.811 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 54.6 | 54901 | PASS |
| 68 | 69 | 0.00 | 2 | 1.7 | 694 | PASS |
| 69 | 69 | 100 | 100 | 100.0 | 40091 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 246 | PASS |
| 127 | 198 | 10 | 80 | 54.3 | 54555 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 100472 | PASS |
| 199 | 198 | 5 | 9 | 6.2 | 6264 | PASS |
| 275 | 198 | 10 | 60 | 24.2 | 24275 | PASS |
| 365 | 198 | 1 | 100 | 2.8 | 2770 | PASS |
| 441 | 442 | 0.01 | 24 | 16.6 | 12241 | PASS |
| 442 | 198 | 50 | 100 | 73.2 | 73557 | PASS |
| 443 | 442 | 15 | 24 | 20.0 | 14683 | PASS |

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\241105RVTical\
Data File : TUNE.D
Acq On : 05 Nov 2024 06:14 am
Operator : SV120:mrg
Sample : TUNE
Misc : WG1993471
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Nov 05 16:38:36 2024
Quant Method : I:\8270SIM\sv120\241105RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 05 16:39:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D




CHROMtools™ [TUNE]

(6) ddt (T)

5.873min (-0.025) 35.52

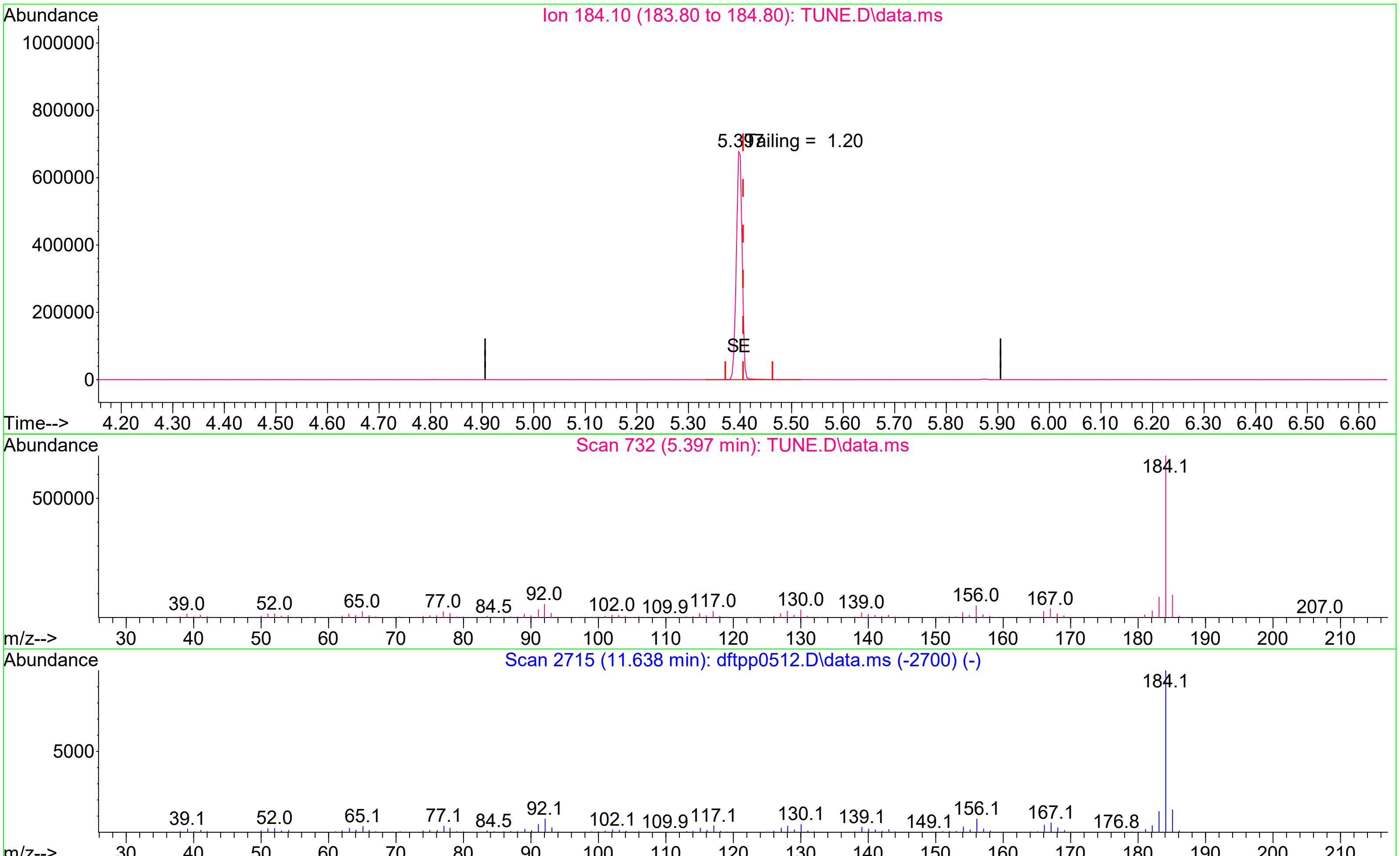
response 216520

| Ion | Exp% | Act% |
|---|---|---|
| 235.10 | 100.00 | 100.00 |
| 237.00 | 65.60 | 64.54 |
| 165.10 | 53.30 | 56.29 |
| 199.10 | 17.10 | 16.12 |

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\241105RVTical\
Data File : TUNE.D
Acq On : 05 Nov 2024 06:14 am
Operator : SV120:mrg
Sample : TUNE
Misc : WG1993471
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Nov 05 16:38:36 2024
Quant Method : I:\8270SIM\sv120\241105RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 05 16:39:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D




CHROMtools™ [TUNE]

(3) benzidine (T)

5.397min (-0.009) 51.81

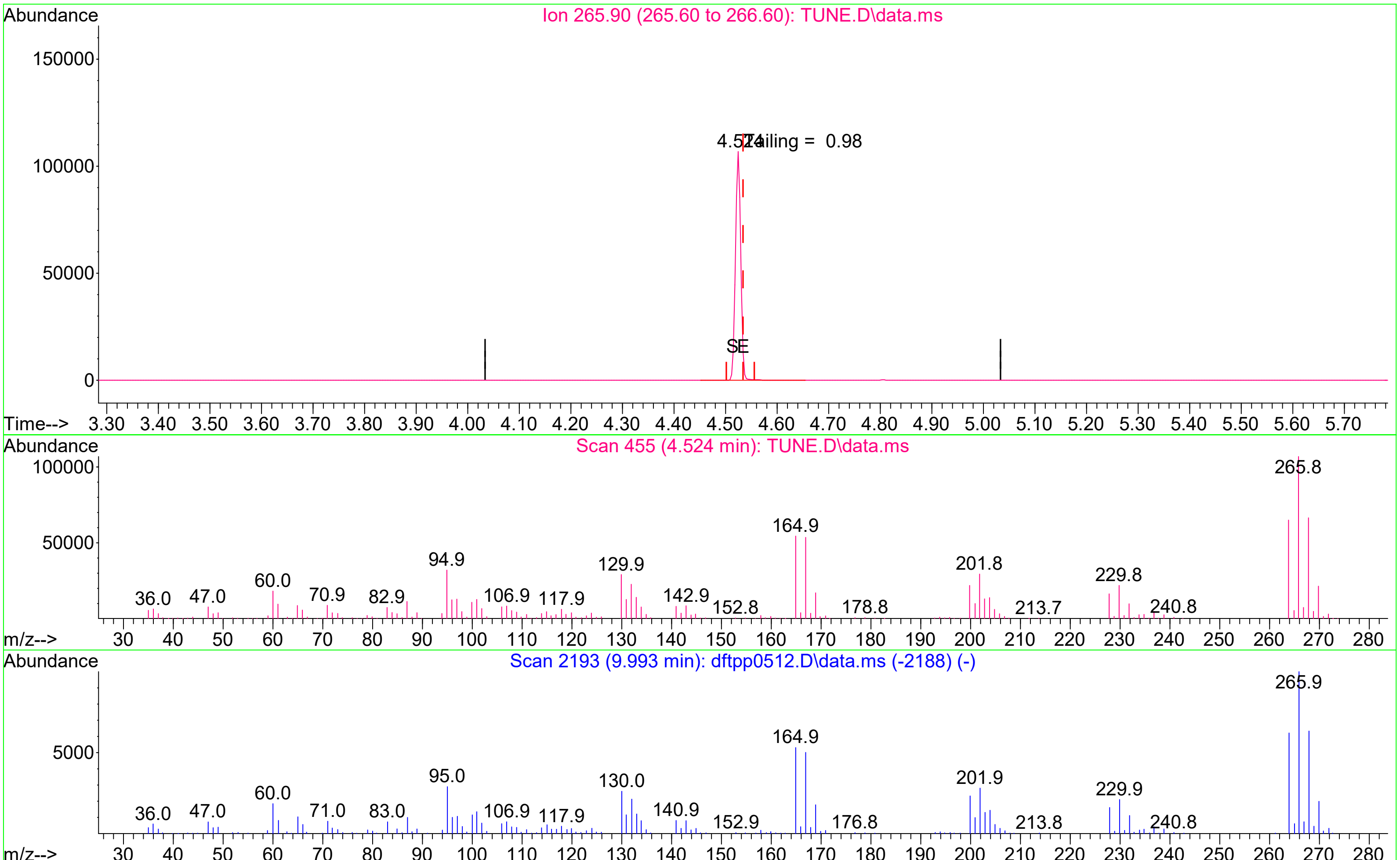
response 527412

| 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\sv120\241105RVTical\
Data File : TUNE.D
Acq On : 05 Nov 2024 06:14 am
Operator : SV120:mrg
Sample : TUNE
Misc : WG1993471
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Nov 05 16:38:36 2024
Quant Method : I:\8270SIM\sv120\241105RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 05 16:39:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D




CHROMtools™ [TUNE]

(1) pentachlorophenol (T)

4.524min (-0.010) 36.28

response 76208

| 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\sv120\2024\241105RVTical\
Data File : IL10.D
Acq On    : 05 Nov 2024  07:30 am
Operator  : SV120:mrg
Sample    : IL10,32,,5000.0ng/mL lot# 10885
Misc      : WG1993471
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Dec 02 11:35:16 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List     : Default - All compounds listed

        Compound                     R.T. QIon  Response  Conc Units Dev(Min)
  --------------------------------------------------------------------------
  Internal Standards
  1) 1,4-Dichlorobenzene-d4      2.052  152    341120   4000.000 ng/ml    0.00
    Standard Area 1 = 269340                 Recovery   =  126.65%
  8) Naphthalene-d8              2.695  136   1341754   4000.000 ng/ml    0.00
    Standard Area 1 = 1055011                 Recovery   =  127.18%
 17) Acenaphthene-d10            3.663  164    790862   4000.000 ng/ml    0.00
    Standard Area 1 = 611711                 Recovery   =  129.29%
 22) Phenanthrene-d10            4.498  188   1508245   4000.000 ng/ml    0.00
    Standard Area 1 = 1165771                 Recovery   =  129.38%
 31) Chrysene-d12                6.025  240   1190628   4000.000 ng/ml    0.00
    Standard Area 1 = 980774                 Recovery   =  121.40%
 36) Perylene-d12                7.081  264   1146722   4000.000 ng/ml    0.00
    Standard Area 1 = 961303                 Recovery   =  119.29%

  System Monitoring Compounds
  2) 2-Fluorophenol              1.511  112    424509   4228.460 ng/ml  0.00
    Spiked Amount   2000.000   Range  15 - 110    Recovery   =  211.42%#
  3) Phenol-d6                   1.884   99    604740   4901.671 ng/ml  0.00
    Spiked Amount   2000.000   Range  15 - 110    Recovery   =  245.08%#
  7) Nitrobenzene-d5             2.326   82    518850   4763.774 ng/ml  0.00
    Spiked Amount   1000.000   Range  30 - 130    Recovery   =  476.38%#
 13) 2-Fluorobiphenyl            3.290  172   1112259   4112.803 ng/ml  0.00
    Spiked Amount   1000.000   Range  30 - 130    Recovery   =  411.28%#
 21) 2,4,6-Tribromophenol        4.108  330    160795   5107.439 ng/ml  0.00
    Spiked Amount   2000.000   Range  15 - 110    Recovery   =  255.37%#
 30) 4-Terphenyl-d14             5.415  244   1149918   4192.981 ng/ml  0.00
    Spiked Amount   2000.000   Range  30 - 130    Recovery   =  209.65%#

  Target Compounds                                                  Qvalue
  4) Bis(2-chloroethyl)ether     1.928   93     470424   5011.563 ng/ml     99
  5) n-nitrosodi-n-propylamine   2.256   70     364927   4904.400 ng/ml     99
  6) Hexachloroethane            2.296  117     208475   4668.232 ng/ml    100
  9) Naphthalene                 2.708  128    1469278   4380.543 ng/ml     99
 10) Hexachlorobutadiene         2.779  225     283824   4465.859 ng/ml    100
 11) 2-Methylnaphthalene         3.082  142    1031748   4430.774 ng/ml     98
 12) 1-Methylnaphthalene         3.137  142     943476   4404.966 ng/ml     98
 14) 2-Chloronaphthalene         3.351  162    1018713   4407.018 ng/ml    100
 15) 2,6-Dinitrotoluene          3.557  165     299038   5715.380 ng/ml#    80
 16) Acenaphthylene              3.583  152    1542363   4627.850 ng/ml    100
 18) Acenaphthene                3.682  153    1057576   4430.288 ng/ml     99
```

Quantitation Report    (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL10.D
Acq On    : 05 Nov 2024  07:30 am
Operator  : SV120:mrg
Sample    : IL10,32,,5000.0ng/mL lot# 10885
Misc      : WG1993471
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Dec 02 11:35:16 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List     : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 19) 2,4-Dinitrotoluene | 3.782 | 165 | 338380 | 5091.155 ng/ml | 97 |
| 20) Fluorene | 3.970 | 166 | 1133351 | 4387.728 ng/ml | 98 |
| 23) 4,6-Dinitro-o-cresol | 4.013 | 198 | 228762 | 5038.967 ng/ml | 98 |
| 24) Hexachlorobenzene | 4.287 | 284 | 349380 | 4385.430 ng/ml | 99 |
| 25) Pentachlorophenol | 4.398 | 266 | 250952 | 4931.379 ng/ml | 100 |
| 26) Phenanthrene | 4.512 | 178 | 1708840 | 4754.447 ng/ml | 99 |
| 27) Anthracene | 4.541 | 178 | 1684708 | 4530.463 ng/ml | 99 |
| 28) Fluoranthene | 5.186 | 202 | 1777140 | 4292.915 ng/ml | 99 |
| 29) Pyrene | 5.315 | 202 | 1827805 | 4281.872 ng/ml | 100 |
| 32) Benzo[a]anthracene | 6.015 | 228 | 1786981 | 4923.842 ng/ml | 99 |
| 33) 3,3'-Dichlorobenzidine | 6.013 | 252 | 650897 | 5057.448 ng/ml | 99 |
| 34) Chrysene | 6.042 | 228 | 1518548 | 4817.616 ng/ml | 97 |
| 35) Bis(2-ethylhexyl)phtha... | 6.054 | 149 | 1174567 | 5574.857 ng/ml | 99 |
| 37) Benzo[b]fluoranthene | 6.755 | 252 | 1670157 | 4799.956 ng/ml | 99 |
| 38) Benzo[k]fluoranthene | 6.780 | 252 | 1418971 | 4536.310 ng/ml | 98 |
| 39) Benzo[a]pyrene | 7.027 | 252 | 1426727 | 5006.017 ng/ml | 99 |
| 40) Indeno[1,2,3-cd]pyrene | 8.158 | 276 | 1485315 | 5096.701 ng/ml | 99 |
| 41) Dibenzo[a,h]anthracene | 8.195 | 278 | 1290764M6 | 4714.638 ng/ml | |
| 42) Benzo[g,h,i]perylene | 8.469 | 276 | 1324759 | 4680.809 ng/ml | 100 |

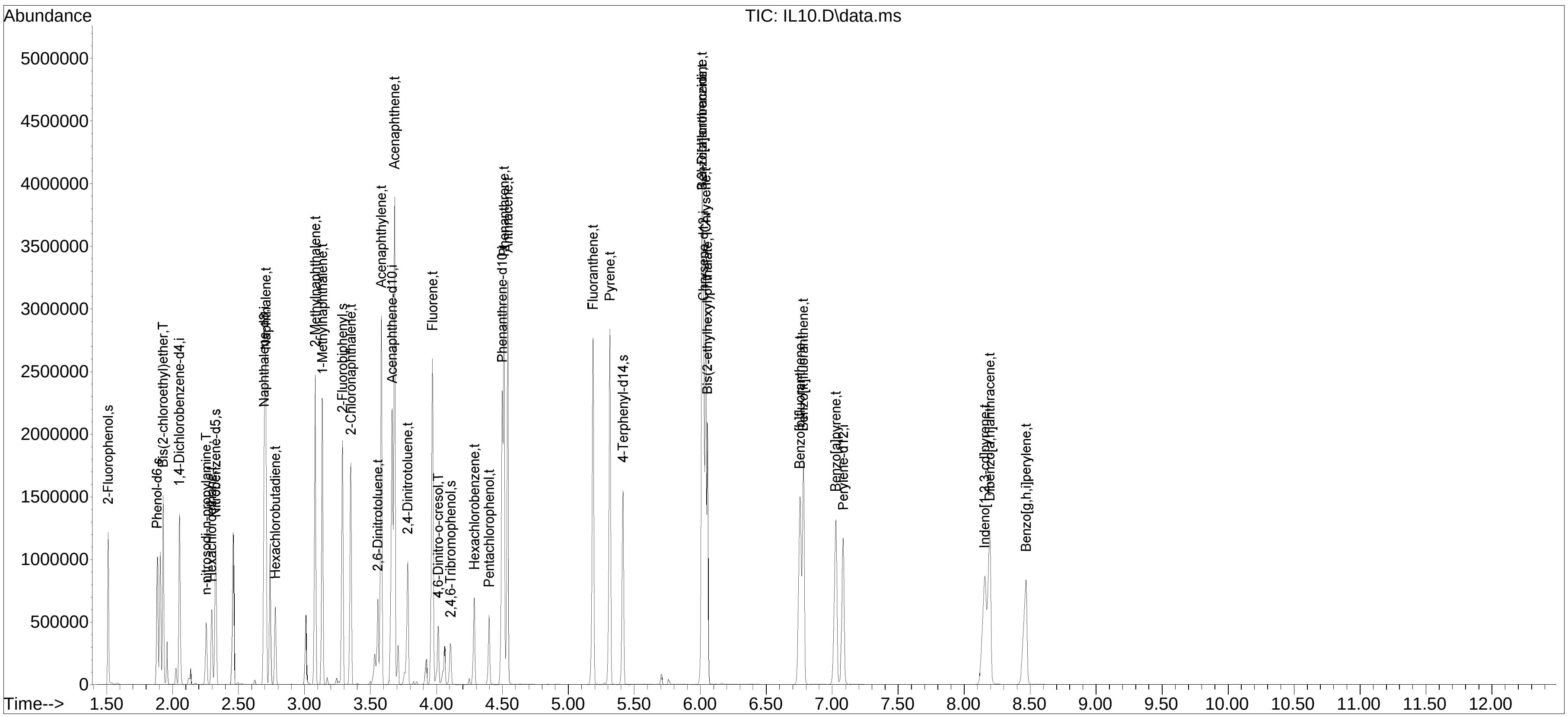
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL10.D
Acq On : 05 Nov 2024 07:30 am
Operator : SV120:mrg
Sample : IL10,32,,5000.0ng/mL lot# 10885
Misc : WG1993471
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 02 11:35:16 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed05RVTical\IL8.D•

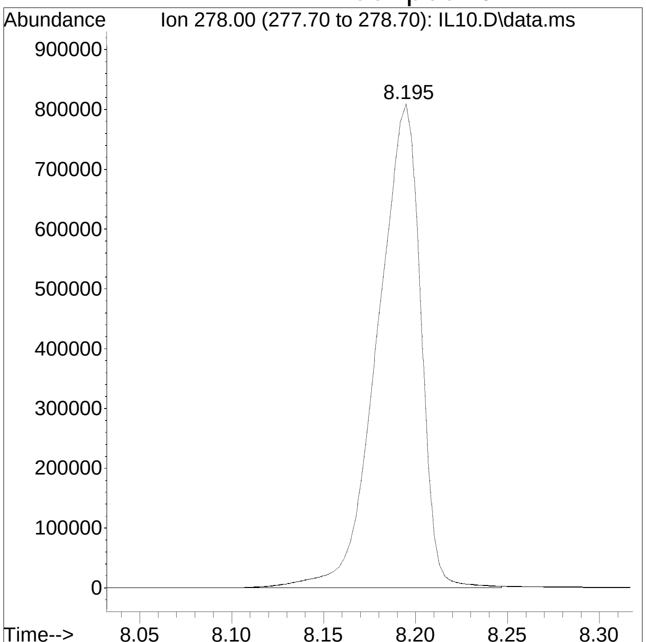


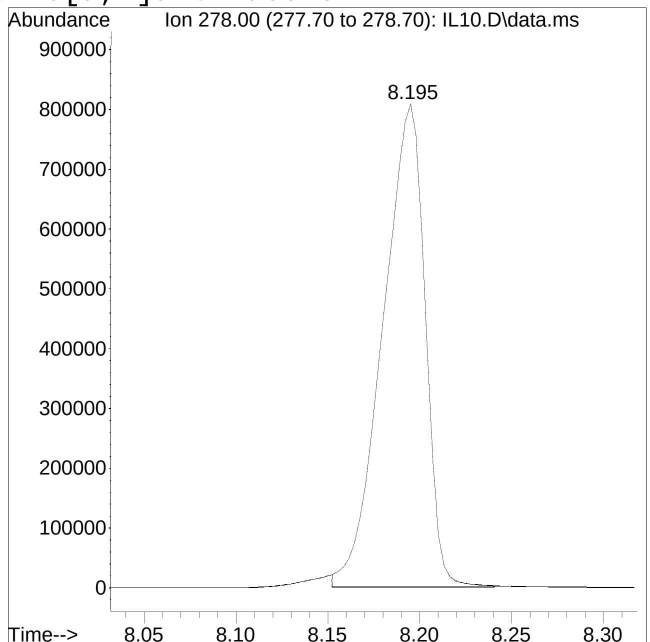

SIM-RVT_241105_sv120.M Mon Dec 02 11:38:47 2024 Page: 3

Manual Integration Report

```
Data Path    : I:\8270SIM\sv120\2024\2411QMethod     : SIM-RVT_241105_sv120.M
Data File    : IL10.D                       Operator    : SV120:mrg
Date Inj'd   : 11/5/2024  7:30 am           Instrument  : SV120
Sample       : IL10,32,,5000.0ng/mL lot# Quant Date  : 12/2/2024 11:36 am
```

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 1319650    Manual Peak Response = 1290764 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

```
                      Quantitation Report    (QT Reviewed)

  Data Path : I:\8270SIM\sv120\2024\241105RVTical\
  Data File : IL9.D
  Acq On    : 05 Nov 2024  07:47 am
  Operator  : SV120:mrg
  Sample    : IL9,32,,2500.0ng/mL lot# 10901
  Misc      : WG1993471
  ALS Vial  : 2   Sample Multiplier: 1

  Quant Time: Dec 02 11:36:16 2024
  Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
  Quant Title  : Semivolatiles by GC/MS by modified 8270
  QLast Update : Mon Dec 02 11:36:17 2024
  Response via : Initial Calibration

  CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
  Sub List     : Default - All compounds listed

          Compound                     R.T. QIon  Response  Conc Units Dev(Min)
   ------------------------------------------------------------------------------
   Internal Standards
   1) 1,4-Dichlorobenzene-d4       2.055  152    375547   4000.000 ng/ml    0.00
     Standard Area 1 = 269340                 Recovery   =  139.43%
   8) Naphthalene-d8               2.696  136   1472470   4000.000 ng/ml    0.00
     Standard Area 1 = 1055011                 Recovery   =  139.57%
  17) Acenaphthene-d10             3.663  164    854571   4000.000 ng/ml    0.00
     Standard Area 1 = 611711                 Recovery   =  139.70%
  22) Phenanthrene-d10             4.498  188   1617772   4000.000 ng/ml    0.00
     Standard Area 1 = 1165771                 Recovery   =  138.77%
  31) Chrysene-d12                 6.021  240   1256082   4000.000 ng/ml    0.00
     Standard Area 1 = 980774                 Recovery   =  128.07%
  36) Perylene-d12                 7.076  264   1168827   4000.000 ng/ml    0.00
     Standard Area 1 = 961303                 Recovery   =  121.59%

   System Monitoring Compounds
   2) 2-Fluorophenol               1.519  112    246169M6   2227.263 ng/ml   0.01

     Spiked Amount   2000.000   Range  15 - 110    Recovery   =  111.36%#
   3) Phenol-d6                    1.884   99    346235   2549.114 ng/ml  0.00
     Spiked Amount   2000.000   Range  15 - 110    Recovery   =  127.46%#
   7) Nitrobenzene-d5              2.327   82    300399   2505.248 ng/ml  0.00
     Spiked Amount   1000.000   Range  30 - 130    Recovery   =  250.52%#
  13) 2-Fluorobiphenyl             3.287  172    654219   2204.355 ng/ml  0.00
     Spiked Amount   1000.000   Range  30 - 130    Recovery   =  220.44%#
  21) 2,4,6-Tribromophenol         4.104  330     90546   2661.659 ng/ml  0.00
     Spiked Amount   2000.000   Range  15 - 110    Recovery   =  133.08%#
  30) 4-Terphenyl-d14              5.410  244    659362   2241.478 ng/ml  0.00
     Spiked Amount   2000.000   Range  30 - 130    Recovery   =  112.07%

   Target Compounds                                                  Qvalue
   4) Bis(2-chloroethyl)ether      1.931   93     276959   2498.793 ng/ml    100
   5) n-nitrosodi-n-propylamine    2.254   70     209213   2553.944 ng/ml     99
   6) Hexachloroethane             2.300  117     119643   2433.485 ng/ml    100
   9) Naphthalene                  2.705  128     856706   2327.460 ng/ml    100
  10) Hexachlorobutadiene          2.779  225     164702   2361.463 ng/ml    100
  11) 2-Methylnaphthalene          3.080  142     600424   2349.581 ng/ml     99
  12) 1-Methylnaphthalene          3.135  142     548998   2335.656 ng/ml     99
  14) 2-Chloronaphthalene          3.348  162     585059   2306.318 ng/ml     99
  15) 2,6-Dinitrotoluene           3.552  165     143159   2493.239 ng/ml     99
  16) Acenaphthylene               3.580  152     891422   2437.263 ng/ml    100
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL9.D
Acq On : 05 Nov 2024 07:47 am
Operator : SV120:mrg
Sample : IL9,32,,2500.0ng/mL lot# 10901
Misc : WG1993471
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 02 11:36:16 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 18) Acenaphthene | 3.680 | 153 | 606781 | 2352.366 ng/ml | 100 |
| 19) 2,4-Dinitrotoluene | 3.777 | 165 | 193072 | 2688.336 ng/ml | 98 |
| 20) Fluorene | 3.969 | 166 | 656403 | 2351.789 ng/ml | 99 |
| 23) 4,6-Dinitro-o-cresol | 4.008 | 198 | 124870 | 2574.954 ng/ml | 99 |
| 24) Hexachlorobenzene | 4.284 | 284 | 199978 | 2340.189 ng/ml | 100 |
| 25) Pentachlorophenol | 4.396 | 266 | 134797 | 2681.512 ng/ml | 100 |
| 26) Phenanthrene | 4.510 | 178 | 969517 | 2514.830 ng/ml | 100 |
| 27) Anthracene | 4.538 | 178 | 974860 | 2444.076 ng/ml | 99 |
| 28) Fluoranthene | 5.185 | 202 | 1029736 | 2319.056 ng/ml | 100 |
| 29) Pyrene | 5.311 | 202 | 1046471 | 2285.523 ng/ml | 100 |
| 32) Benzo[a]anthracene | 6.014 | 228 | 986802 | 2572.728 ng/ml | 99 |
| 33) 3,3'-Dichlorobenzidine | 6.009 | 252 | 362996 | 2673.493 ng/ml | 100 |
| 34) Chrysene | 6.036 | 228 | 852188 | 2562.697 ng/ml | 98 |
| 35) Bis(2-ethylhexyl)phtha... | 6.052 | 149 | 633099 | 2848.300 ng/ml | 99 |
| 37) Benzo[b]fluoranthene | 6.750 | 252 | 879054 | 2478.583 ng/ml | 99 |
| 38) Benzo[k]fluoranthene | 6.771 | 252 | 820638 | 2573.883 ng/ml | 99 |
| 39) Benzo[a]pyrene | 7.018 | 252 | 770547 | 2652.519 ng/ml | 99 |
| 40) Indeno[1,2,3-cd]pyrene | 8.147 | 276 | 764125 | 2572.426 ng/ml | 99 |
| 41) Dibenzo[a,h]anthracene | 8.178 | 278 | 673807M6 | 2414.599 ng/ml | |
| 42) Benzo[g,h,i]perylene | 8.452 | 276 | 700594 | 2428.613 ng/ml | 100 |

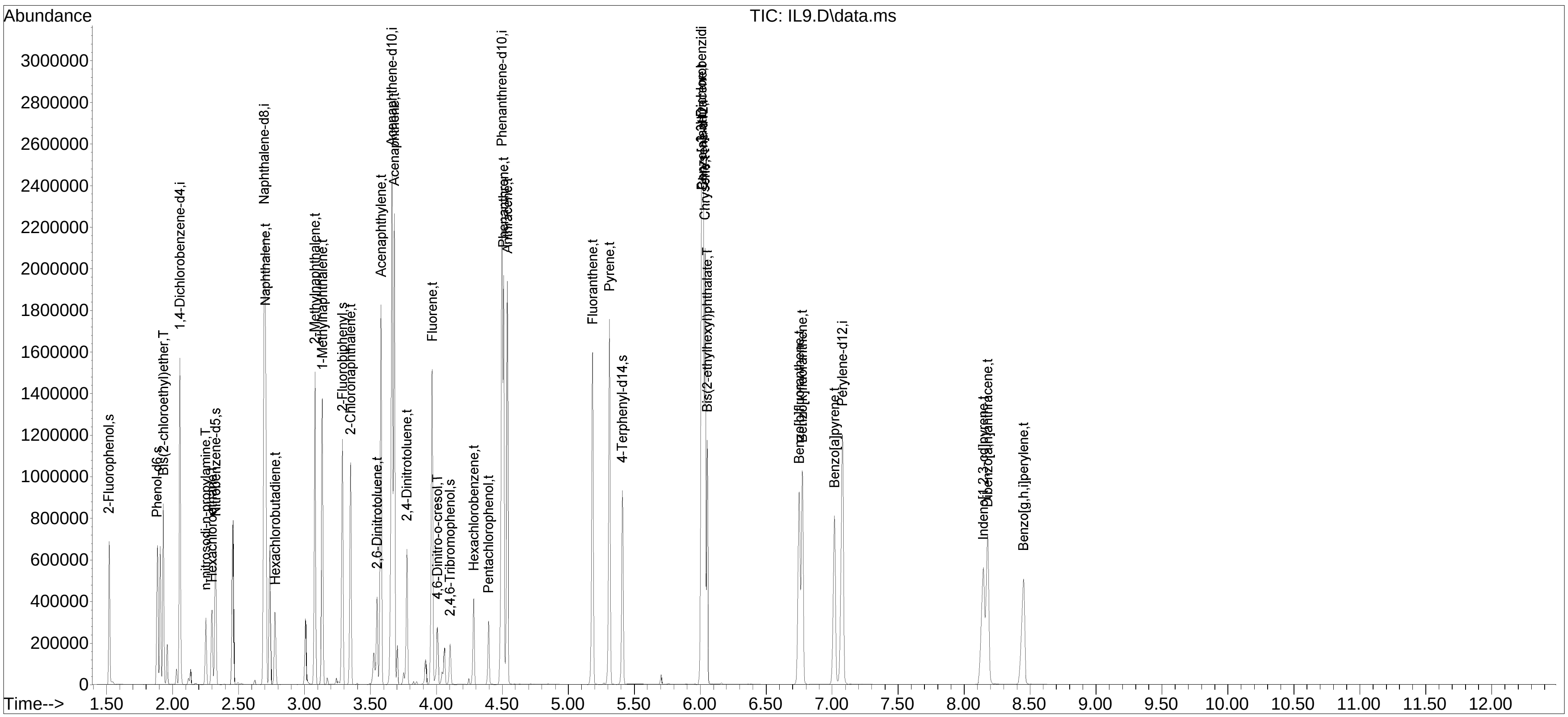
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL9.D
Acq On    : 05 Nov 2024  07:47 am
Operator  : SV120:mrg
Sample    : IL9,32,,2500.0ng/mL lot# 10901
Misc      : WG1993471
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Dec 02 11:36:16 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

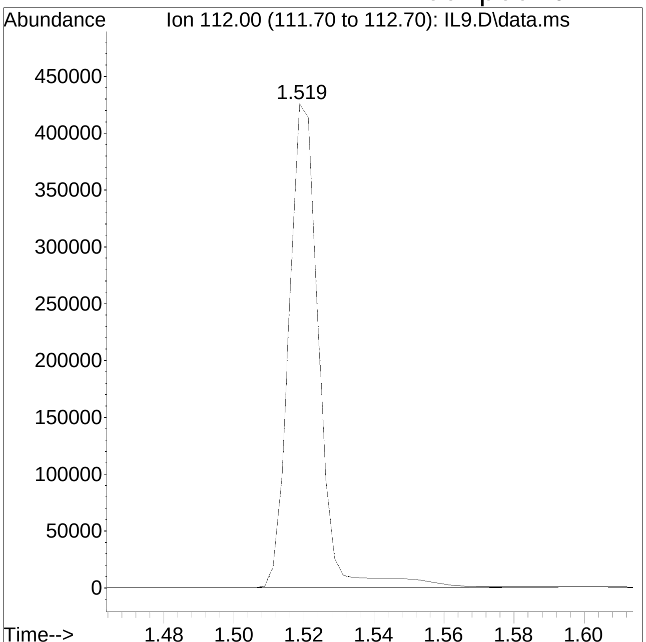
Sub List     : Default - All compounds listed05RVTical\IL8.D•

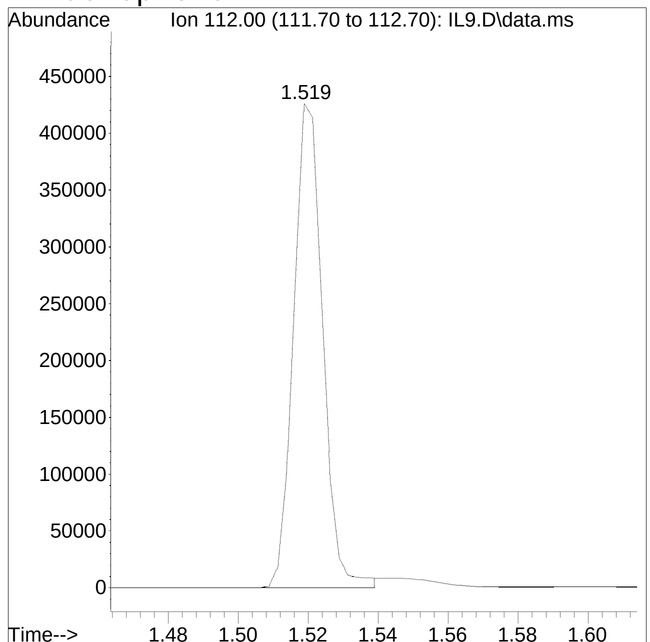


Manual Integration Report

```
Data Path   : I:\8270SIM\sv120\2024\2411QMethod     : SIM-RVT_241105_sv120.M
Data File   : IL9.D                        Operator    : SV120:mrg
Date Inj'd  : 11/5/2024  7:47 am           Instrument  : SV120
Sample      : IL9,32,,2500.0ng/mL lot# 1Quant Date  : 12/2/2024 11:37 am
```

Compound #2: 2-Fluorophenol



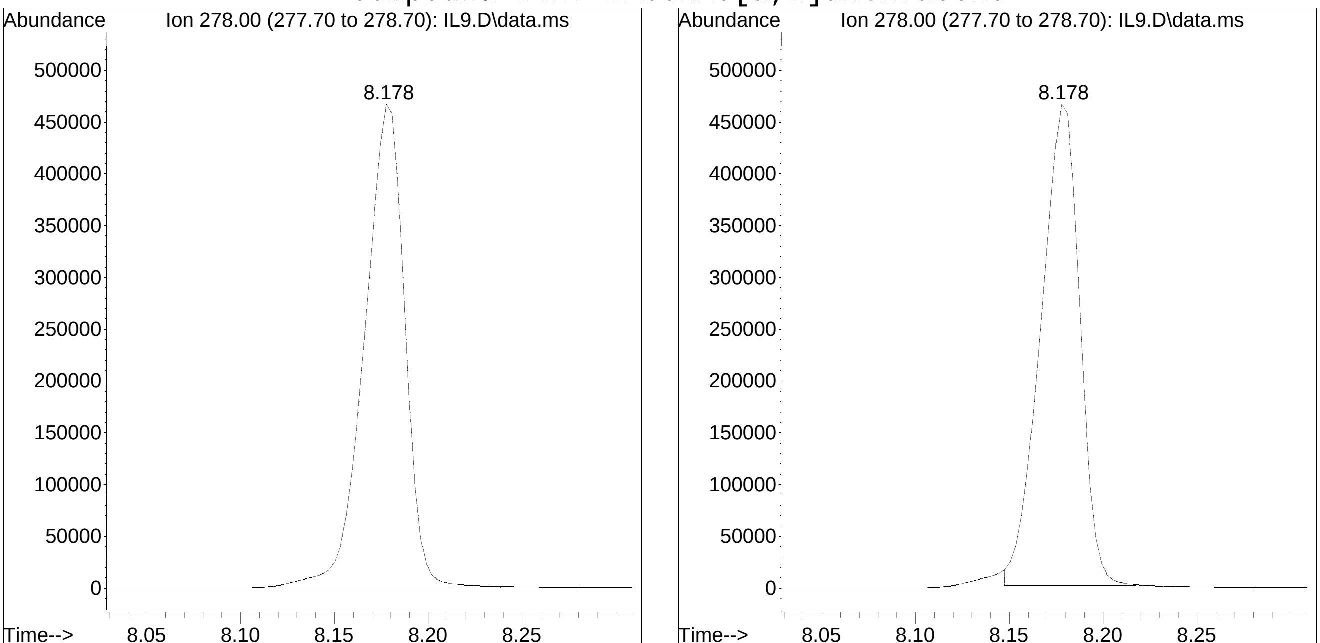

Original Peak Response = 255738    Manual Peak Response = 246169 M6

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

Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL9.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 7:47 am Instrument : SV120
Sample : IL9,32,,2500.0ng/mL lot# 1Quant Date : 12/2/2024 11:37 am

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 702337 Manual Peak Response = 673807 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report    (QT Reviewed)

```
Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL8.D
Acq On    : 05 Nov 2024  08:03 am
Operator  : SV120:mrg
Sample    : IL8,32,,1000.0ng/mL lot# 10888
Misc      : WG1993471
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Dec 02 11:36:10 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List     : Default - All compounds listed

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4      2.052  152    269340   4000.000 ng/ml    0.00
   Standard Area 1 = 269340                 Recovery   =  100.00%
 8) Naphthalene-d8              2.695  136   1055011   4000.000 ng/ml    0.00
   Standard Area 1 = 1055011                 Recovery   =  100.00%
17) Acenaphthene-d10            3.660  164    611711   4000.000 ng/ml    0.00
   Standard Area 1 = 611711                 Recovery   =  100.00%
22) Phenanthrene-d10            4.495  188   1165771   4000.000 ng/ml    0.00
   Standard Area 1 = 1165771                 Recovery   =  100.00%
31) Chrysene-d12                6.016  240    980774   4000.000 ng/ml    0.00
   Standard Area 1 = 980774                 Recovery   =  100.00%
36) Perylene-d12                7.073  264    961303   4000.000 ng/ml    0.00
   Standard Area 1 = 961303                 Recovery   =  100.00%

 System Monitoring Compounds
 2) 2-Fluorophenol              1.504  112     77818   981.707 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   49.09%
 3) Phenol-d6                   1.877   99     96758   993.273 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   49.66%
 7) Nitrobenzene-d5             2.323   82     86146   1001.730 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =  100.17%
13) 2-Fluorobiphenyl            3.287  172    196270   923.000 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   92.30%
21) 2,4,6-Tribromophenol        4.100  330     25476   1046.204 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   52.31%
30) 4-Terphenyl-d14             5.411  244    202243   954.087 ng/ml   0.00
   Spiked Amount   2000.000   Range  30 - 130    Recovery   =   47.70%

 Target Compounds                                                  Qvalue
 4) Bis(2-chloroethyl)ether     1.924   93      79799    962.373 ng/ml    100
 5) n-nitrosodi-n-propylamine   2.250   70      58624    997.842 ng/ml    100
 6) Hexachloroethane            2.296  117      34869    988.882 ng/ml    100
 9) Naphthalene                 2.705  128     249684    946.740 ng/ml    100
10) Hexachlorobutadiene         2.776  225      48067    961.875 ng/ml    100
11) 2-Methylnaphthalene         3.080  142     175282    957.325 ng/ml    100
12) 1-Methylnaphthalene         3.135  142     159811    948.930 ng/ml    100
14) 2-Chloronaphthalene         3.348  162     169913    934.836 ng/ml    100
15) 2,6-Dinitrotoluene          3.549  165      40107    974.888 ng/ml    100
16) Acenaphthylene              3.577  152     257571    982.891 ng/ml    100
18) Acenaphthene                3.677  153     173798    941.282 ng/ml    100
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL8.D
Acq On : 05 Nov 2024 08:03 am
Operator : SV120:mrg
Sample : IL8,32,,1000.0ng/mL lot# 10888
Misc : WG1993471
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 02 11:36:10 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 19) 2,4-Dinitrotoluene | 3.774 | 165 | 53871 | 1047.903 | ng/ml | 100 |
| 20) Fluorene | 3.966 | 166 | 193639 | 969.220 | ng/ml | 100 |
| 23) 4,6-Dinitro-o-cresol | 4.001 | 198 | 32247 | 936.701 | ng/ml | 100 |
| 24) Hexachlorobenzene | 4.281 | 284 | 58783 | 954.607 | ng/ml | 100 |
| 25) Pentachlorophenol | 4.395 | 266 | 33017 | 978.234 | ng/ml | 100 |
| 26) Phenanthrene | 4.507 | 178 | 278182 | 1001.351 | ng/ml | 100 |
| 27) Anthracene | 4.535 | 178 | 283176 | 985.219 | ng/ml | 100 |
| 28) Fluoranthene | 5.182 | 202 | 304329 | 951.114 | ng/ml | 100 |
| 29) Pyrene | 5.308 | 202 | 314599 | 953.498 | ng/ml | 100 |
| 32) Benzo[a]anthracene | 6.009 | 228 | 295783 | 981.645 | ng/ml | 100 |
| 33) 3,3'-Dichlorobenzidine | 6.002 | 252 | 108700 | 1025.312 | ng/ml | 100 |
| 34) Chrysene | 6.031 | 228 | 278990 | 1074.483 | ng/ml | 100 |
| 35) Bis(2-ethylhexyl)phtha... | 6.050 | 149 | 176261 | 1015.592 | ng/ml | 100 |
| 37) Benzo[b]fluoranthene | 6.744 | 252 | 280583 | 961.920 | ng/ml | 100 |
| 38) Benzo[k]fluoranthene | 6.765 | 252 | 271213 | 1034.279 | ng/ml | 100 |
| 39) Benzo[a]pyrene | 7.009 | 252 | 245722 | 1028.474 | ng/ml | 100 |
| 40) Indeno[1,2,3-cd]pyrene | 8.132 | 276 | 248243 | 1016.121 | ng/ml | 100 |
| 41) Dibenzo[a,h]anthracene | 8.168 | 278 | 231405M6 | 1008.259 | ng/ml | |
| 42) Benzo[g,h,i]perylene | 8.433 | 276 | 238001 | 1003.138 | ng/ml | 100 |

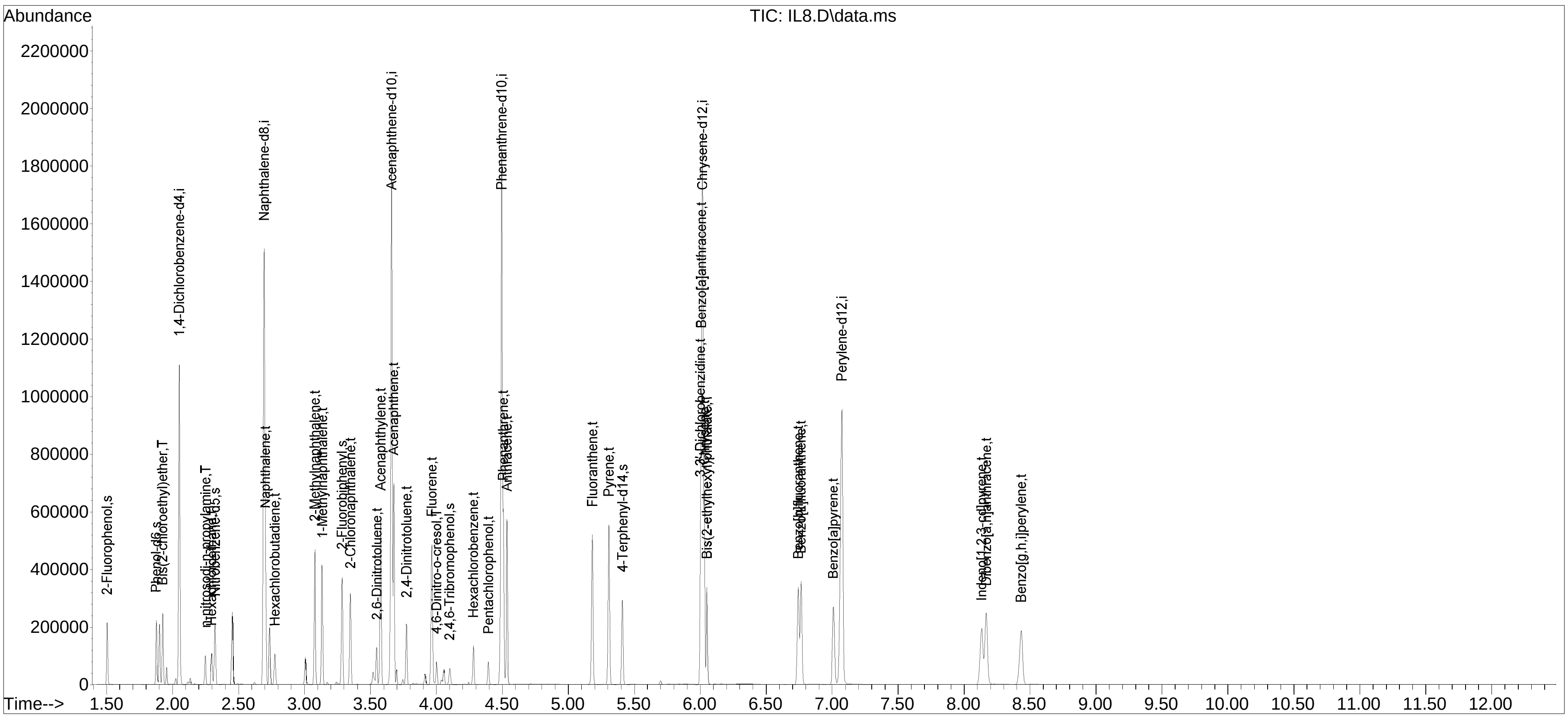
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL8.D
Acq On    : 05 Nov 2024  08:03 am
Operator  : SV120:mrg
Sample    : IL8,32,,1000.0ng/mL lot# 10888
Misc      : WG1993471
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Dec 02 11:36:10 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listed05RVTical\IL8.D•

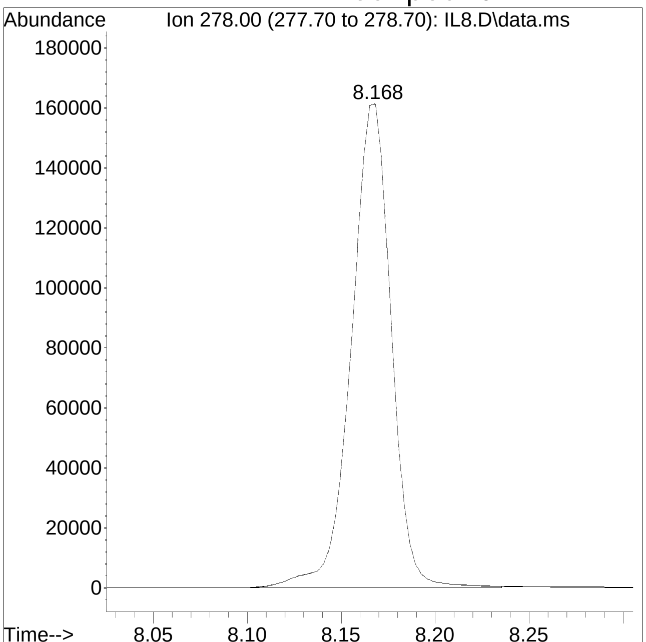


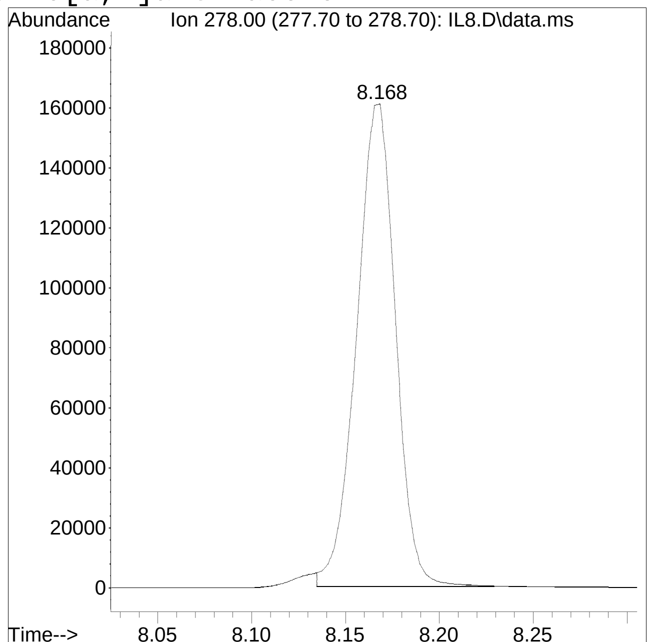
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411Q
Data File : IL8.D
Date Inj'd : 11/5/2024 8:03 am
Sample : IL8,32,,1000.0ng/mL lot# 1

Method : SIM-RVT_241105_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 12/2/2024 11:37 am

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 238747

Manual Peak Response = 231405 M6

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

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL7.D
Acq On    : 05 Nov 2024  08:19 am
Operator  : SV120:mrg
Sample    : IL7,32,,500.0ng/mL lot# 10889
Misc      : WG1993471
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Dec 02 11:36:06 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List     : Default - All compounds listed

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4      2.050  152    269306   4000.000 ng/ml    0.00
   Standard Area 1 = 269340                 Recovery   =   99.99%
 8) Naphthalene-d8              2.692  136   1036968   4000.000 ng/ml    0.00
   Standard Area 1 = 1055011                 Recovery   =   98.29%
17) Acenaphthene-d10            3.659  164    611621   4000.000 ng/ml    0.00
   Standard Area 1 = 611711                 Recovery   =   99.99%
22) Phenanthrene-d10            4.493  188   1162862   4000.000 ng/ml    0.00
   Standard Area 1 = 1165771                 Recovery   =   99.75%
31) Chrysene-d12                6.016  240    972352   4000.000 ng/ml    0.00
   Standard Area 1 = 980774                 Recovery   =   99.14%
36) Perylene-d12                7.073  264    935019   4000.000 ng/ml    0.00
   Standard Area 1 = 961303                 Recovery   =   97.27%

 System Monitoring Compounds
 2) 2-Fluorophenol              1.506  112     40075   505.627 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   25.28%
 3) Phenol-d6                   1.878   99     47785   490.601 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   24.53%
 7) Nitrobenzene-d5             2.323   82     42567   495.044 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   49.50%
13) 2-Fluorobiphenyl            3.284  172    100815   482.353 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   48.24%
21) 2,4,6-Tribromophenol        4.100  330     12687   521.084 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   26.05%
30) 4-Terphenyl-d14             5.410  244    102580   485.135 ng/ml   0.00
   Spiked Amount   2000.000   Range  30 - 130    Recovery   =   24.26%#

 Target Compounds                                                 Qvalue
 4) Bis(2-chloroethyl)ether     1.925   93      40304    478.567 ng/ml     99
 5) n-nitrosodi-n-propylamine   2.247   70      28674    488.123 ng/ml    100
 6) Hexachloroethane            2.297  117      17421    494.120 ng/ml    100
 9) Naphthalene                 2.702  128     124425    479.998 ng/ml    100
10) Hexachlorobutadiene         2.776  225      24037    489.377 ng/ml    100
11) 2-Methylnaphthalene         3.080  142      88469    491.592 ng/ml    100
12) 1-Methylnaphthalene         3.132  142      80740    487.762 ng/ml     99
14) 2-Chloronaphthalene         3.345  162      85754    480.015 ng/ml    100
15) 2,6-Dinitrotoluene          3.547  165      19400    479.764 ng/ml     98
16) Acenaphthylene              3.575  152     129616    503.221 ng/ml    100
18) Acenaphthene                3.675  153      87238    472.546 ng/ml     99
```

Quantitation Report    (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL7.D
Acq On    : 05 Nov 2024  08:19 am
Operator  : SV120:mrg
Sample    : IL7,32,,500.0ng/mL lot# 10889
Misc      : WG1993471
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Dec 02 11:36:06 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

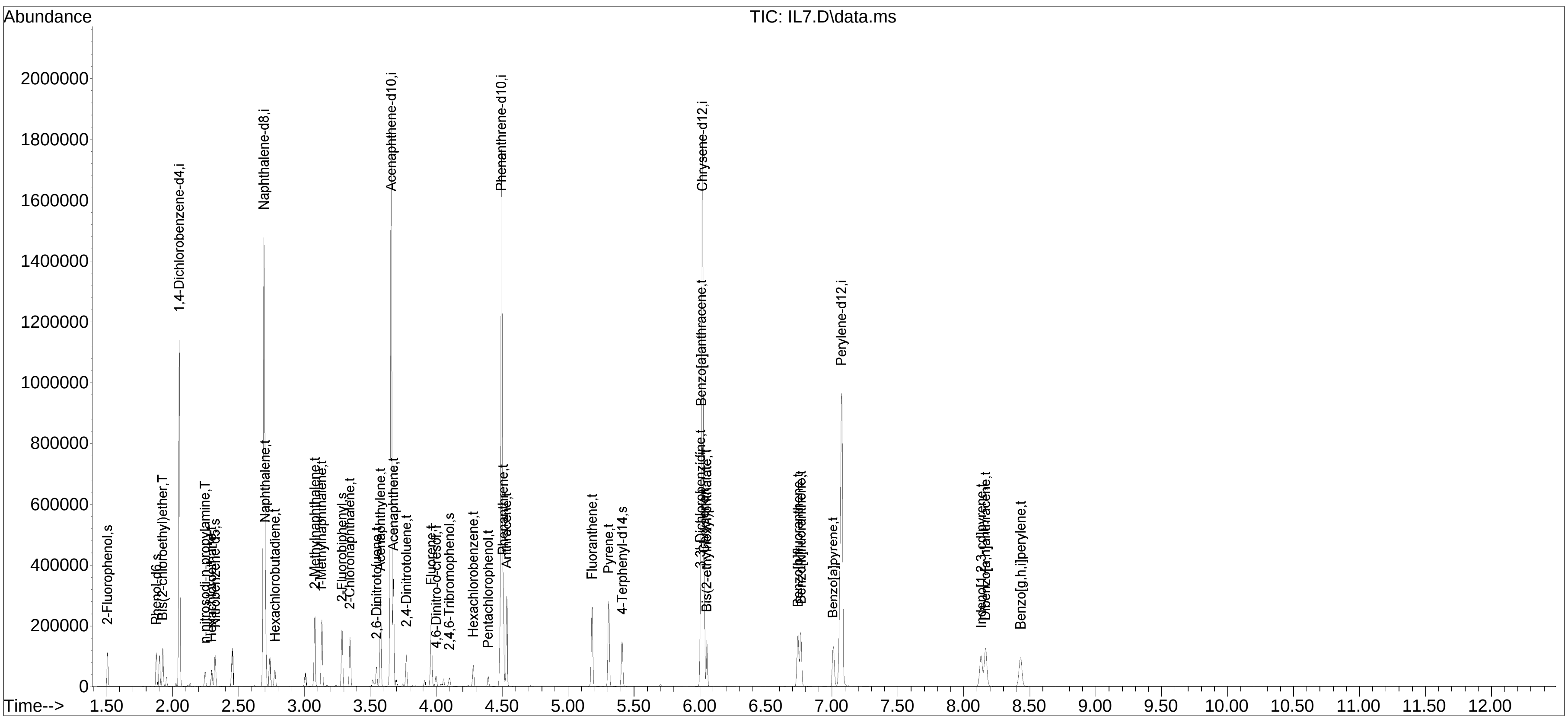
CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List     : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 19) 2,4-Dinitrotoluene | 3.773 | 165 | 25788 | 501.704 ng/ml | 97 |
| 20) Fluorene | 3.962 | 166 | 97290 | 487.037 ng/ml | 99 |
| 23) 4,6-Dinitro-o-cresol | 4.001 | 198 | 14756 | 441.432 ng/ml | 99 |
| 24) Hexachlorobenzene | 4.279 | 284 | 29908 | 486.906 ng/ml | 100 |
| 25) Pentachlorophenol | 4.393 | 266 | 13733 | 421.222 ng/ml | 99 |
| 26) Phenanthrene | 4.505 | 178 | 141398 | 510.253 ng/ml | 99 |
| 27) Anthracene | 4.533 | 178 | 141714 | 494.282 ng/ml | 100 |
| 28) Fluoranthene | 5.181 | 202 | 154479 | 483.998 ng/ml | 99 |
| 29) Pyrene | 5.308 | 202 | 159784 | 485.491 ng/ml | 100 |
| 32) Benzo[a]anthracene | 6.009 | 228 | 153737 | 510.034 ng/ml | 99 |
| 33) 3,3'-Dichlorobenzidine | 6.002 | 252 | 51932 | 494.091 ng/ml# | 99 |
| 34) Chrysene | 6.031 | 228 | 137137 | 532.735 ng/ml | 100 |
| 35) Bis(2-ethylhexyl)phtha... | 6.050 | 149 | 81433 | 473.270 ng/ml | 100 |
| 37) Benzo[b]fluoranthene | 6.743 | 252 | 141382 | 498.324 ng/ml | 100 |
| 38) Benzo[k]fluoranthene | 6.765 | 252 | 134609 | 527.766 ng/ml | 100 |
| 39) Benzo[a]pyrene | 7.009 | 252 | 121410 | 522.449 ng/ml | 100 |
| 40) Indeno[1,2,3-cd]pyrene | 8.131 | 276 | 123778 | 520.897 ng/ml | 99 |
| 41) Dibenzo[a,h]anthracene | 8.165 | 278 | 115896M6 | 519.168 ng/ml | |
| 42) Benzo[g,h,i]perylene | 8.430 | 276 | 117709 | 510.072 ng/ml | 100 |

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

Quantitation Report    (QT Reviewed)

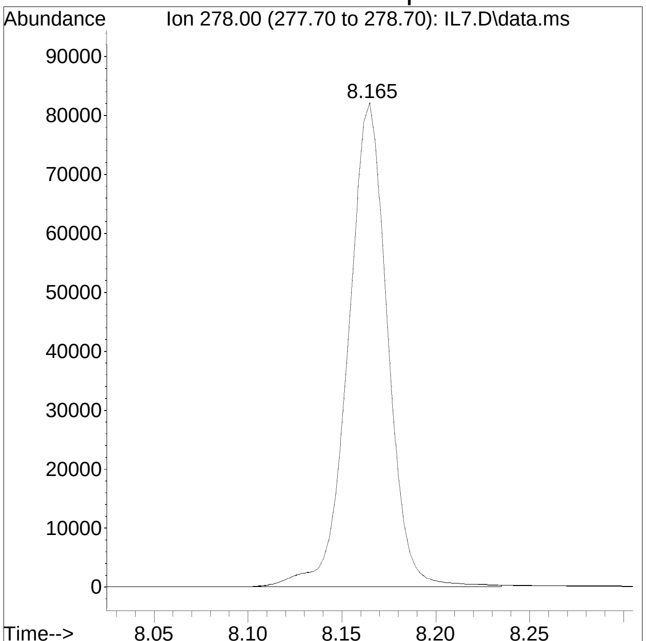
```
Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL7.D
Acq On    : 05 Nov 2024  08:19 am
Operator  : SV120:mrg
Sample    : IL7,32,,500.0ng/mL lot# 10889
Misc      : WG1993471
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Dec 02 11:36:06 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listed05RVTical\IL8.D•
```

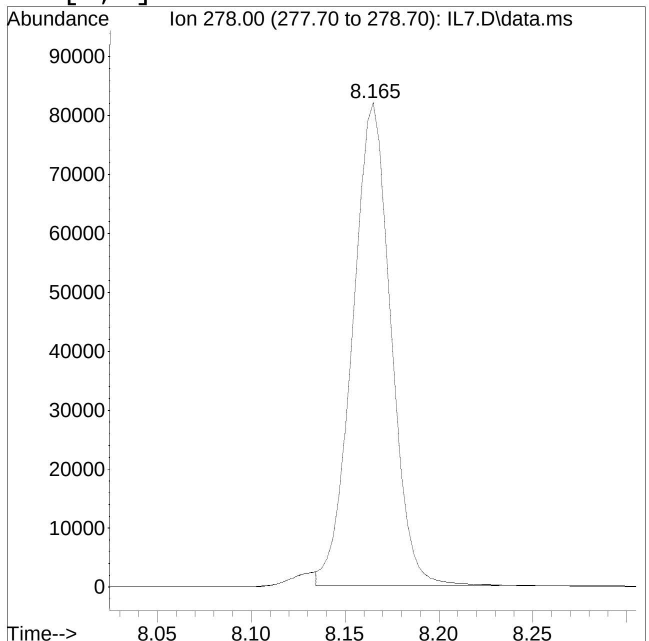


Manual Integration Report

```
Data Path   : I:\8270SIM\sv120\2024\2411QMethod     : SIM-RVT_241105_sv120.M
Data File   : IL7.D                     Operator    : SV120:mrg
Date Inj'd  : 11/5/2024  8:19 am        Instrument  : SV120
Sample      : IL7,32,,500.0ng/mL lot# 10Quant Date  : 12/2/2024 11:37 am
```

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 119497     Manual Peak Response = 115896 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL6.D
Acq On    : 05 Nov 2024  08:36 am
Operator  : SV120:mrg
Sample    : IL6,32,,100.0ng/mL lot# 10899
Misc      : WG1993471
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Dec 02 11:35:45 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List     : Default - All compounds listed

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 --------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4      2.049  152    224921   4000.000 ng/ml    0.00
   Standard Area 1 = 269340                  Recovery   =   83.51%
 8) Naphthalene-d8              2.692  136    882674   4000.000 ng/ml    0.00
   Standard Area 1 = 1055011                  Recovery   =   83.66%
17) Acenaphthene-d10            3.658  164    526331   4000.000 ng/ml    0.00
   Standard Area 1 = 611711                  Recovery   =   86.04%
22) Phenanthrene-d10            4.492  188   1040055   4000.000 ng/ml    0.00
   Standard Area 1 = 1165771                  Recovery   =   89.22%
31) Chrysene-d12                6.016  240    955833   4000.000 ng/ml    0.00
   Standard Area 1 = 980774                  Recovery   =   97.46%
36) Perylene-d12                7.071  264    945247   4000.000 ng/ml    0.00
   Standard Area 1 = 961303                  Recovery   =   98.33%

 System Monitoring Compounds
 2) 2-Fluorophenol              1.496  112      7953   120.144 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    6.01%#
 3) Phenol-d6                   1.875   99      9578   117.741 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    5.89%#
 7) Nitrobenzene-d5             2.323   82      8618   120.003 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   12.00%#
13) 2-Fluorobiphenyl            3.287  172     21551   121.136 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   12.11%#
21) 2,4,6-Tribromophenol        4.100  330      2535   120.990 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    6.05%#
30) 4-Terphenyl-d14             5.411  244     23313   123.274 ng/ml   0.00
   Spiked Amount   2000.000   Range  30 - 130    Recovery   =    6.16%#

 Target Compounds                                                  Qvalue
 4) Bis(2-chloroethyl)ether     1.924   93     11354    157.989 ng/ml#    75
 5) n-nitrosodi-n-propylamine   2.246   70      5774    117.688 ng/ml     99
 6) Hexachloroethane            2.296  117      3539    120.187 ng/ml     99
 9) Naphthalene                 2.701  128     25879    117.285 ng/ml    100
10) Hexachlorobutadiene         2.776  225      4914    117.534 ng/ml     99
11) 2-Methylnaphthalene         3.080  142     18059    117.889 ng/ml     99
12) 1-Methylnaphthalene         3.131  142     16817    119.353 ng/ml     99
14) 2-Chloronaphthalene         3.345  162     18066    118.803 ng/ml    100
15) 2,6-Dinitrotoluene          3.546  165      3756    109.123 ng/ml     92
16) Acenaphthylene              3.577  152     26259    119.769 ng/ml    100
18) Acenaphthene                3.674  153     18621    117.210 ng/ml     97
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL6.D
Acq On : 05 Nov 2024 08:36 am
Operator : SV120:mrg
Sample : IL6,32,,100.0ng/mL lot# 10899
Misc : WG1993471
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 11:35:45 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 19) 2,4-Dinitrotoluene | 3.772 | 165 | 4835 | 109.307 | ng/ml | 90 |
| 20) Fluorene | 3.962 | 166 | 20594 | 119.800 | ng/ml | 98 |
| 23) 4,6-Dinitro-o-cresol | 4.001 | 198 | 2580 | 103.733 | ng/ml | 96 |
| 24) Hexachlorobenzene | 4.279 | 284 | 6518 | 118.644 | ng/ml | 99 |
| 25) Pentachlorophenol | 4.393 | 266 | 2141 | 80.192 | ng/ml | 100 |
| 26) Phenanthrene | 4.504 | 178 | 31343 | 126.460 | ng/ml | 95 |
| 27) Anthracene | 4.533 | 178 | 30650 | 119.526 | ng/ml | 100 |
| 28) Fluoranthene | 5.182 | 202 | 33908 | 118.781 | ng/ml | 100 |
| 29) Pyrene | 5.308 | 202 | 35315 | 119.972 | ng/ml | 100 |
| 32) Benzo[a]anthracene | 6.007 | 228 | 36408 | 115.522 | ng/ml | 100 |
| 33) 3,3'-Dichlorobenzidine | 6.002 | 252 | 11436 | 110.685 | ng/ml | 99 |
| 34) Chrysene | 6.028 | 228 | 33809 | 133.607 | ng/ml | 100 |
| 35) Bis(2-ethylhexyl)phtha... | 6.050 | 149 | 17264 | 102.068 | ng/ml | 99 |
| 37) Benzo[b]fluoranthene | 6.741 | 252 | 32611 | 113.699 | ng/ml | 99 |
| 38) Benzo[k]fluoranthene | 6.763 | 252 | 31925 | 123.815 | ng/ml | 100 |
| 39) Benzo[a]pyrene | 7.006 | 252 | 27989 | 119.138 | ng/ml | 99 |
| 40) Indeno[1,2,3-cd]pyrene | 8.126 | 276 | 28483 | 118.568 | ng/ml | 99 |
| 41) Dibenzo[a,h]anthracene | 8.163 | 278 | 28301M6 | 125.405 | ng/ml | |
| 42) Benzo[g,h,i]perylene | 8.425 | 276 | 28272 | 121.186 | ng/ml | 100 |

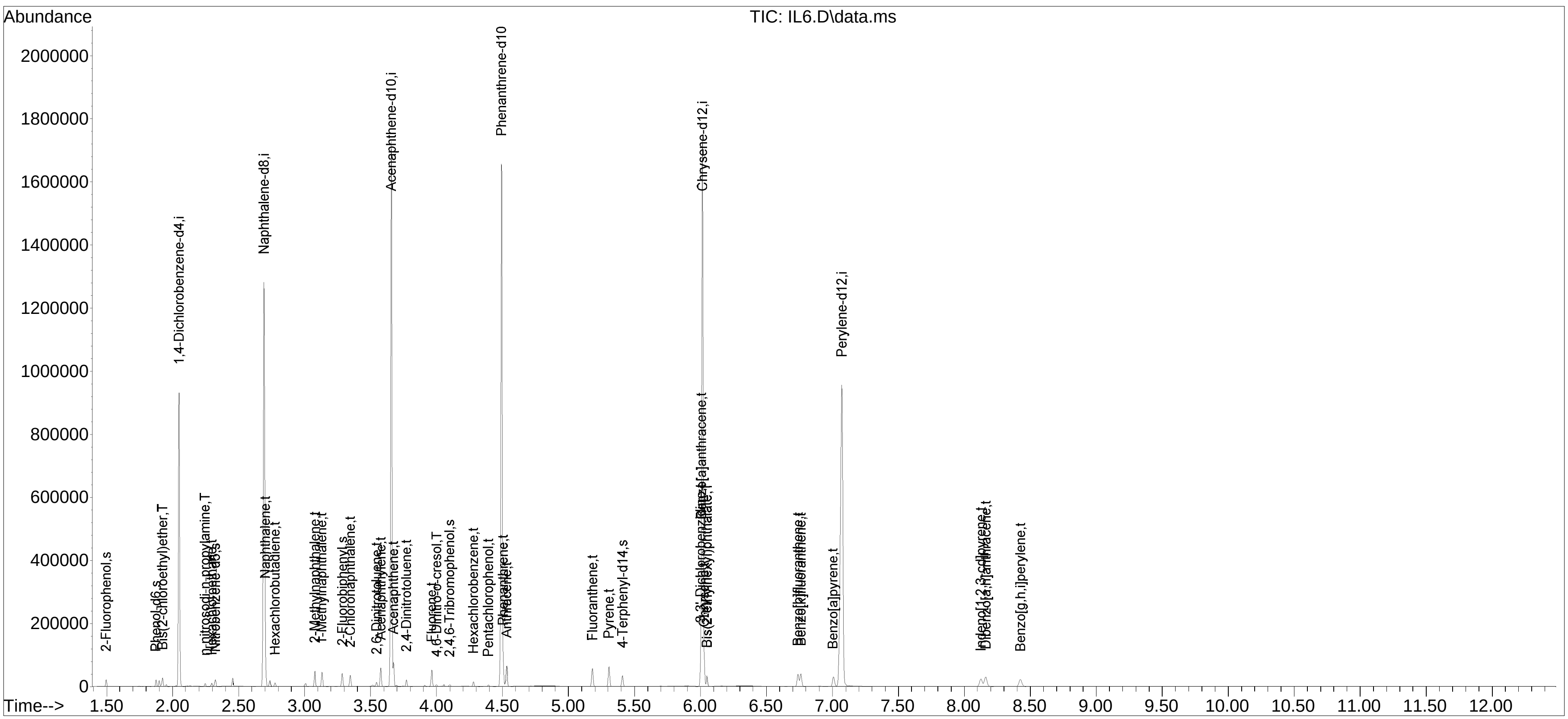
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL6.D
Acq On : 05 Nov 2024 08:36 am
Operator : SV120:mrg
Sample : IL6,32,,100.0ng/mL lot# 10899
Misc : WG1993471
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 11:35:45 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

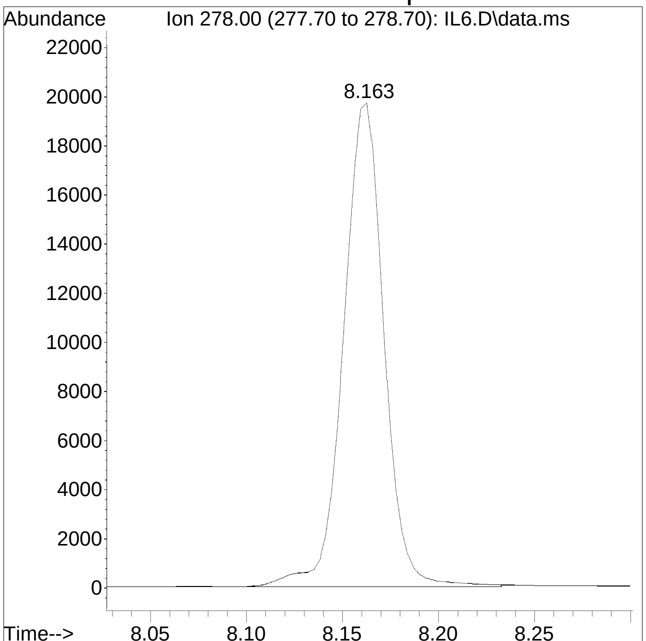
Sub List : Default - All compounds listed05RVTical\IL8.D•

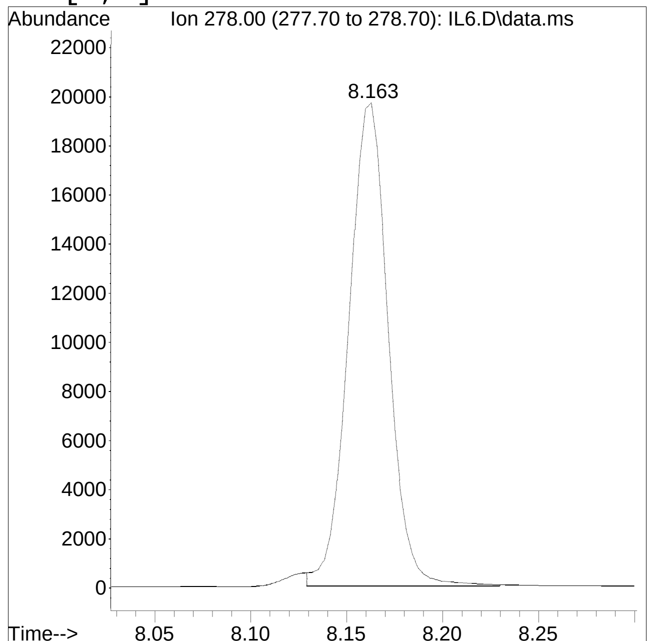


Manual Integration Report

```
Data Path    : I:\8270SIM\sv120\2024\2411QMethod     : SIM-RVT_241105_sv120.M
Data File    : IL6.D                        Operator    : SV120:mrg
Date Inj'd   : 11/5/2024  8:36 am           Instrument  : SV120
Sample       : IL6,32,,100.0ng/mL lot# 10Quant Date  : 12/2/2024 11:37 am
```

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 28948 Manual Peak Response = 28301 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL5.D
Acq On    : 05 Nov 2024  08:52 am
Operator  : SV120:mrg
Sample    : IL5,32,,40.0ng/mL lot# 10891
Misc      : WG1993471
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Dec 02 11:35:41 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List     : Default - All compounds listed

       Compound                    R.T. QIon  Response  Conc Units Dev(Min)
 ------------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4      2.047  152    227773   4000.000 ng/ml    0.00
   Standard Area 1 = 269340                Recovery   =   84.57%
 8) Naphthalene-d8              2.691  136    889425   4000.000 ng/ml    0.00
   Standard Area 1 = 1055011                Recovery   =   84.30%
17) Acenaphthene-d10            3.658  164    533237   4000.000 ng/ml    0.00
   Standard Area 1 = 611711                Recovery   =   87.17%
22) Phenanthrene-d10            4.494  188   1055271   4000.000 ng/ml    0.00
   Standard Area 1 = 1165771                Recovery   =   90.52%
31) Chrysene-d12                6.016  240    977784   4000.000 ng/ml    0.00
   Standard Area 1 = 980774                Recovery   =   99.70%
36) Perylene-d12                7.072  264    949887   4000.000 ng/ml    0.00
   Standard Area 1 = 961303                Recovery   =   98.81%

 System Monitoring Compounds
 2) 2-Fluorophenol              1.496  112      2620    39.084 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    1.95%#
 3) Phenol-d6                   1.875   99      3112    37.776 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    1.89%#
 7) Nitrobenzene-d5             2.322   82      2787    38.322 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =    3.83%#
13) 2-Fluorobiphenyl            3.286  172      7085    39.522 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =    3.95%#
21) 2,4,6-Tribromophenol        4.102  330       781    36.793 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    1.84%#
30) 4-Terphenyl-d14             5.407  244      7660    39.920 ng/ml   0.00
   Spiked Amount   2000.000   Range  30 - 130    Recovery   =    2.00%#

 Target Compounds                                                   Qvalue
 4) Bis(2-chloroethyl)ether     1.924   93       2753     35.271 ng/ml     99
 5) n-nitrosodi-n-propylamine   2.249   70       1859     37.417 ng/ml     99
 6) Hexachloroethane            2.295  117       1142     38.297 ng/ml     99
 9) Naphthalene                 2.701  128       8513     38.289 ng/ml     99
10) Hexachlorobutadiene         2.778  225       1629     38.667 ng/ml     99
11) 2-Methylnaphthalene         3.079  142       5871     38.035 ng/ml     99
12) 1-Methylnaphthalene         3.131  142       5467     38.506 ng/ml     99
14) 2-Chloronaphthalene         3.344  162       5934     38.726 ng/ml    100
15) 2,6-Dinitrotoluene          3.544  165       1157M4   33.359 ng/ml
16) Acenaphthylene              3.575  152       8342     37.760 ng/ml    100
18) Acenaphthene                3.675  153       6147     38.191 ng/ml     93
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL5.D
Acq On : 05 Nov 2024 08:52 am
Operator : SV120:mrg
Sample : IL5,32,,40.0ng/mL lot# 10891
Misc : WG1993471
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 02 11:35:41 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 19) 2,4-Dinitrotoluene | 3.772 | 165 | 1366 | 30.482 | ng/ml# | 82 |
| 20) Fluorene | 3.964 | 166 | 6695 | 38.442 | ng/ml | 99 |
| 23) 4,6-Dinitro-o-cresol | 3.999 | 198 | 719 | 44.213 | ng/ml | 96 |
| 24) Hexachlorobenzene | 4.280 | 284 | 2142 | 38.427 | ng/ml | 99 |
| 25) Pentachlorophenol | 4.394 | 266 | 917 | 37.925 | ng/ml | 98 |
| 26) Phenanthrene | 4.506 | 178 | 9958M6 | 39.598 | ng/ml | |
| 27) Anthracene | 4.534 | 178 | 9838 | 37.812 | ng/ml | 100 |
| 28) Fluoranthene | 5.181 | 202 | 10954 | 37.819 | ng/ml | 99 |
| 29) Pyrene | 5.307 | 202 | 11305 | 37.851 | ng/ml | 100 |
| 32) Benzo[a]anthracene | 6.009 | 228 | 13918 | 37.105 | ng/ml | 96 |
| 33) 3,3'-Dichlorobenzidine | 6.001 | 252 | 3377 | 31.951 | ng/ml# | 74 |
| 34) Chrysene | 6.028 | 228 | 10403 | 40.188 | ng/ml | 96 |
| 35) Bis(2-ethylhexyl)phtha... | 6.050 | 149 | 5280 | 30.516 | ng/ml | 100 |
| 37) Benzo[b]fluoranthene | 6.740 | 252 | 11042 | 38.310 | ng/ml | 99 |
| 38) Benzo[k]fluoranthene | 6.761 | 252 | 9020 | 34.811 | ng/ml | 100 |
| 39) Benzo[a]pyrene | 7.008 | 252 | 8522 | 36.098 | ng/ml | 100 |
| 40) Indeno[1,2,3-cd]pyrene | 8.128 | 276 | 8839 | 36.615 | ng/ml | 100 |
| 41) Dibenzo[a,h]anthracene | 8.161 | 278 | 8665M6 | 38.208 | ng/ml | |
| 42) Benzo[g,h,i]perylene | 8.427 | 276 | 8847 | 37.737 | ng/ml | 100 |

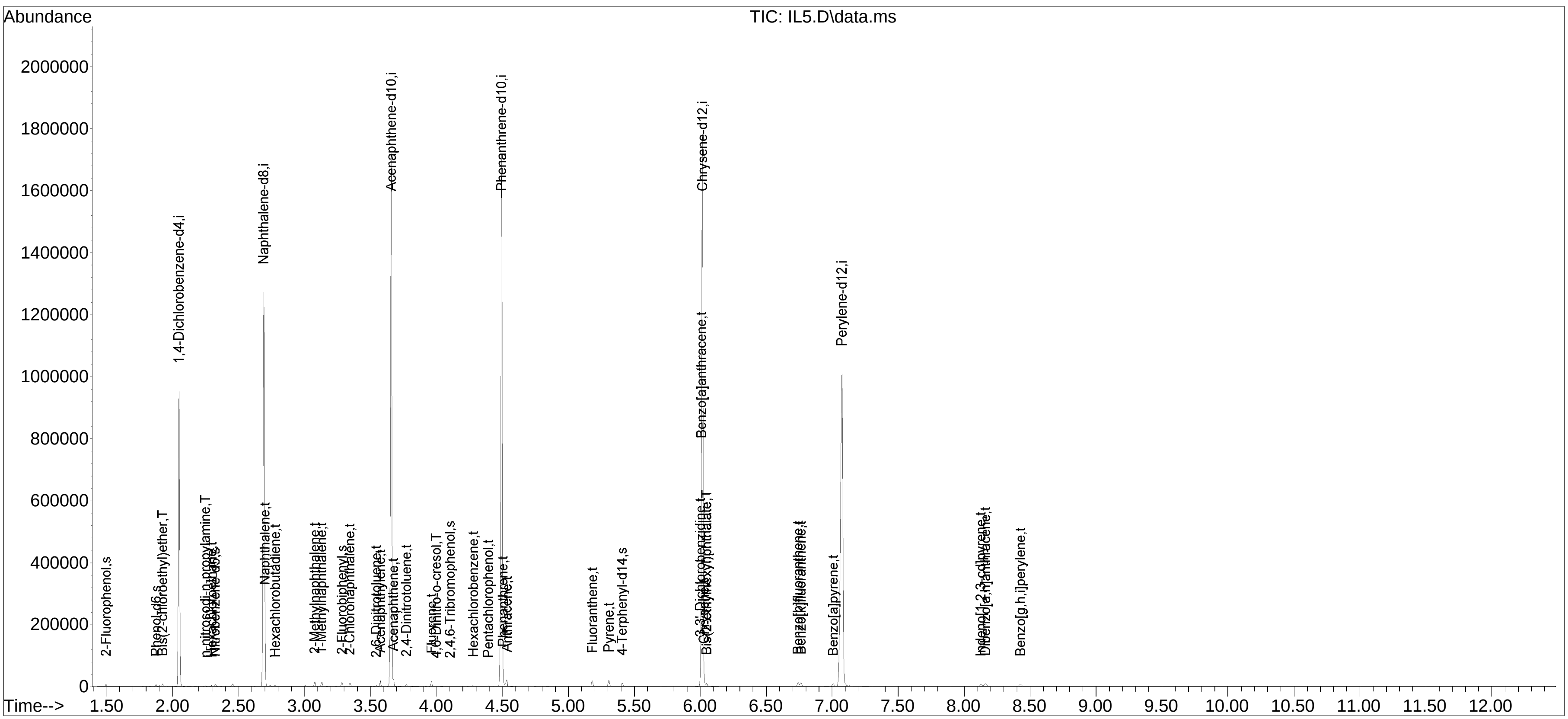
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL5.D
Acq On : 05 Nov 2024 08:52 am
Operator : SV120:mrg
Sample : IL5,32,,40.0ng/mL lot# 10891
Misc : WG1993471
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 02 11:35:41 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed05RVTical\IL8.D•

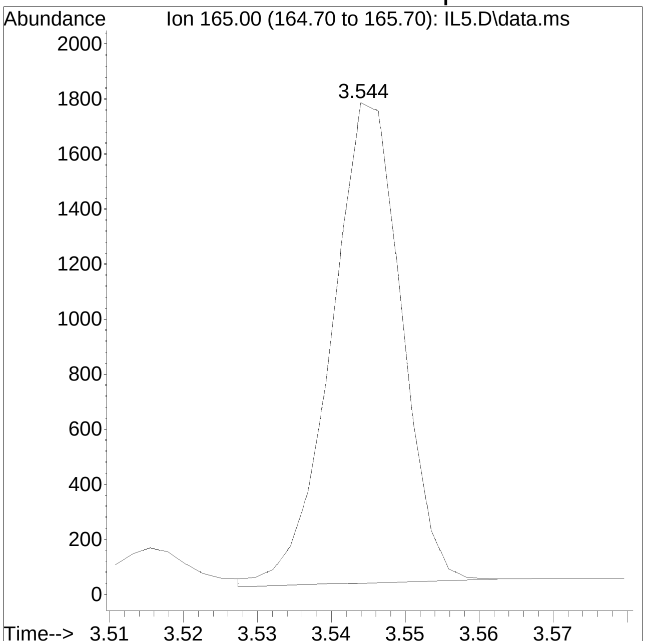


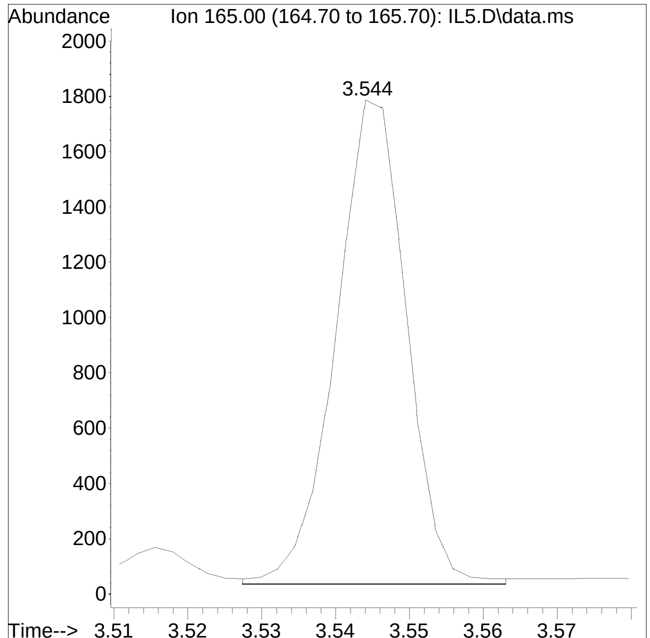
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411Q
Data File : IL5.D
Date Inj'd : 11/5/2024 8:52 am
Sample : IL5,32,,40.0ng/mL lot# 108

Method : SIM-RVT_241105_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 12/2/2024 11:37 am

Compound #15: 2,6-Dinitrotoluene




Original Peak Response = 1148

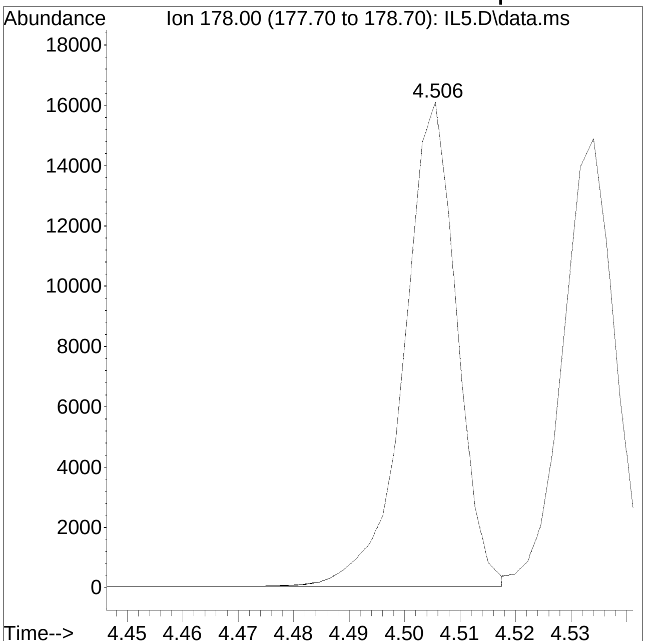
Manual Peak Response = 1157 M4

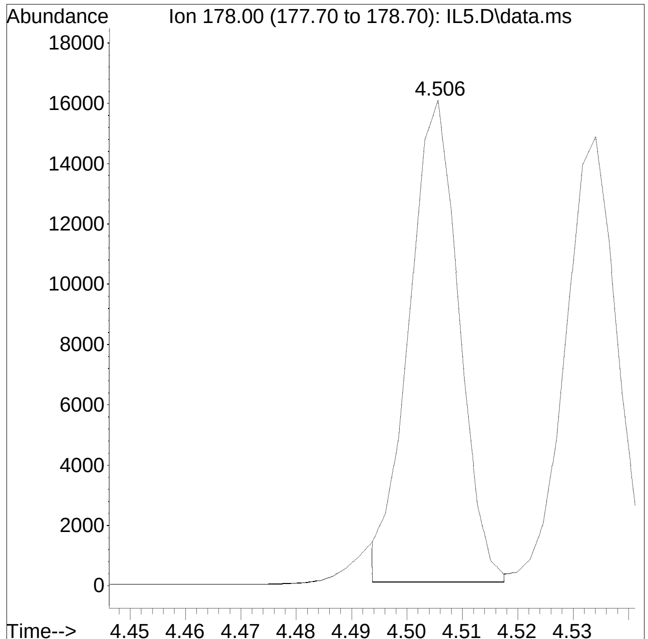
M4 = Poor automated baseline construction.

Manual Integration Report

```
Data Path    : I:\8270SIM\sv120\2024\2411QMethod     : SIM-RVT_241105_sv120.M
Data File    : IL5.D                      Operator    : SV120:mrg
Date Inj'd   : 11/5/2024  8:52 am         Instrument  : SV120
Sample       : IL5,32,,40.0ng/mL lot# 108Quant Date  : 12/2/2024 11:37 am
```

Compound #26: Phenanthrene



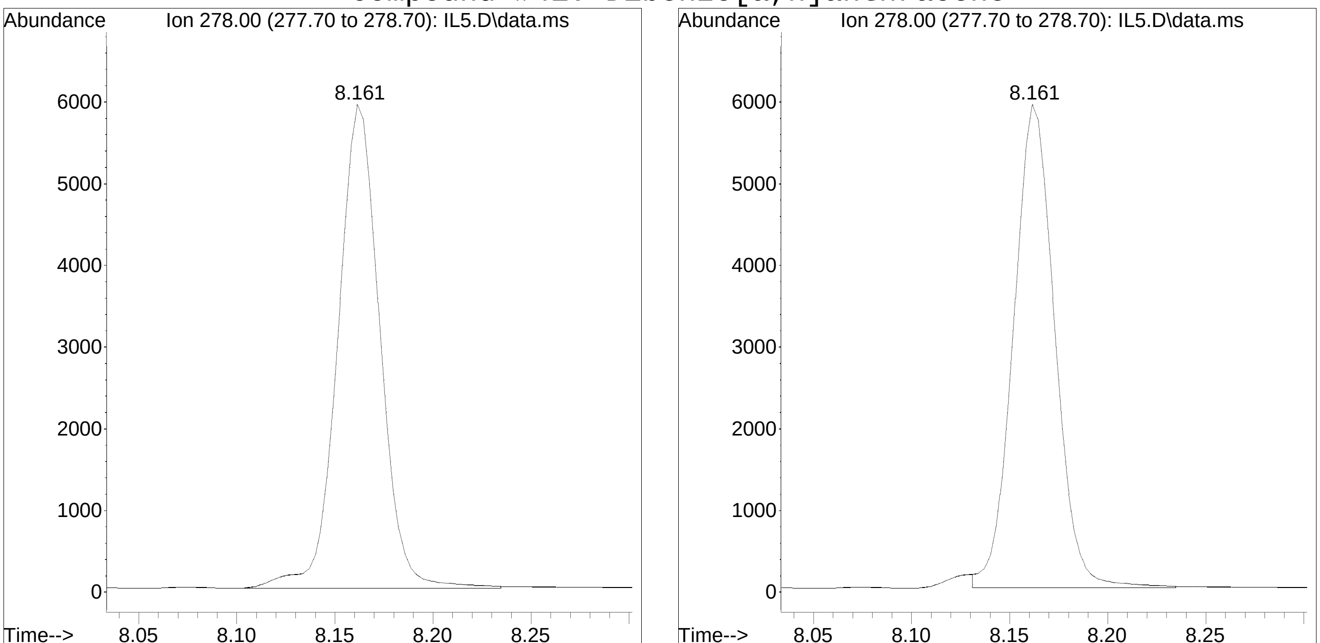

Original Peak Response = 10543     Manual Peak Response = 9958 M6

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

Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL5.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 8:52 am Instrument : SV120
Sample : IL5,32,,40.0ng/mL lot# 108Quant Date : 12/2/2024 11:37 am

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 8871 Manual Peak Response = 8665 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL4.D
Acq On    : 05 Nov 2024  09:08 am
Operator  : SV120:mrg
Sample    : IL4,32,,10.0ng/mL lot#10892
Misc      : WG1993471
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Dec 02 11:44:40 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List     : Default - All compounds listed

        Compound                    R.T. QIon  Response  Conc Units Dev(Min)
 ----------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4      2.050  152    266082   4000.000 ng/ml    0.00
   Standard Area 1 = 269340                 Recovery   =   98.79%
 8) Naphthalene-d8              2.692  136   1032752   4000.000 ng/ml    0.00
   Standard Area 1 = 1055011                 Recovery   =   97.89%
17) Acenaphthene-d10            3.658  164    613551   4000.000 ng/ml    0.00
   Standard Area 1 = 611711                 Recovery   =  100.30%
22) Phenanthrene-d10            4.494  188   1201426   4000.000 ng/ml    0.00
   Standard Area 1 = 1165771                 Recovery   =  103.06%
31) Chrysene-d12                6.015  240   1059480   4000.000 ng/ml    0.00
   Standard Area 1 = 980774                 Recovery   =  108.02%
36) Perylene-d12                7.071  264   1015071   4000.000 ng/ml    0.00
   Standard Area 1 = 961303                 Recovery   =  105.59%

 System Monitoring Compounds
 2) 2-Fluorophenol              1.499  112       777     9.922 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =     0.50%#
 3) Phenol-d6                   1.875   99       920     9.560 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =     0.48%#
 7) Nitrobenzene-d5             2.323   82       811     9.546 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =     0.95%#
13) 2-Fluorobiphenyl            3.284  172      2069     9.940 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =     0.99%#
21) 2,4,6-Tribromophenol        4.099  330       210     8.598 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =     0.43%#
30) 4-Terphenyl-d14             5.408  244      2153     9.855 ng/ml   0.00
   Spiked Amount   2000.000   Range  30 - 130    Recovery   =     0.49%#

 Target Compounds                                                  Qvalue
 4) Bis(2-chloroethyl)ether     1.924   93        785      6.180 ng/ml    100
 5) n-nitrosodi-n-propylamine   2.250   70        541      9.321 ng/ml     98
 6) Hexachloroethane            2.296  117        336      9.646 ng/ml     99
 9) Naphthalene                 2.701  128       2514      9.738 ng/ml#    95
10) Hexachlorobutadiene         2.776  225        480      9.812 ng/ml     99
11) 2-Methylnaphthalene         3.080  142       1723      9.613 ng/ml     99
12) 1-Methylnaphthalene         3.131  142       1599      9.699 ng/ml     98
14) 2-Chloronaphthalene         3.345  162       1724      9.690 ng/ml     99
15) 2,6-Dinitrotoluene          3.544  165        373M4    9.262 ng/ml
16) Acenaphthylene              3.575  152       2388      9.309 ng/ml    100
18) Acenaphthene                3.675  153       1830      9.881 ng/ml     87
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL4.D
Acq On : 05 Nov 2024 09:08 am
Operator : SV120:mrg
Sample : IL4,32,,10.0ng/mL lot#10892
Misc : WG1993471
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 02 11:44:40 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 19) 2,4-Dinitrotoluene | 3.772 | 165 | 386 | 7.486 ng/ml# | 85 |
| 20) Fluorene | 3.965 | 166 | 1918 | 9.571 ng/ml | 97 |
| 23) 4,6-Dinitro-o-cresol | 4.000 | 198 | 176 | 26.521 ng/ml | 90 |
| 24) Hexachlorobenzene | 4.280 | 284 | 621 | 9.785 ng/ml | 100 |
| 25) Pentachlorophenol | 4.394 | 266 | 227 | 13.695 ng/ml | 91 |
| 26) Phenanthrene | 4.506 | 178 | 2903M6 | 10.140 ng/ml | |
| 27) Anthracene | 4.534 | 178 | 2801 | 9.456 ng/ml | 100 |
| 28) Fluoranthene | 5.179 | 202 | 3088 | 9.364 ng/ml | 99 |
| 29) Pyrene | 5.308 | 202 | 3223 | 9.478 ng/ml | 99 |
| 32) Benzo[a]anthracene | 6.013 | 228 | 6056 | 9.105 ng/ml# | 84 |
| 33) 3,3'-Dichlorobenzidine | 0.000 | | 0 | N.D. d | |
| 34) Chrysene | 6.027 | 228 | 2835 | 10.107 ng/ml | 96 |
| 35) Bis(2-ethylhexyl)phtha... | 6.047 | 149 | 1939 | 10.342 ng/ml | 99 |
| 37) Benzo[b]fluoranthene | 6.736 | 252 | 2826 | 9.175 ng/ml | 100 |
| 38) Benzo[k]fluoranthene | 6.757 | 252 | 2542 | 9.181 ng/ml | 100 |
| 39) Benzo[a]pyrene | 7.004 | 252 | 2244 | 8.895 ng/ml | 100 |
| 40) Indeno[1,2,3-cd]pyrene | 8.124 | 276 | 2336 | 9.055 ng/ml | 100 |
| 41) Dibenzo[a,h]anthracene | 8.157 | 278 | 2239M6 | 9.239 ng/ml | |
| 42) Benzo[g,h,i]perylene | 8.422 | 276 | 2358 | 9.412 ng/ml | 100 |

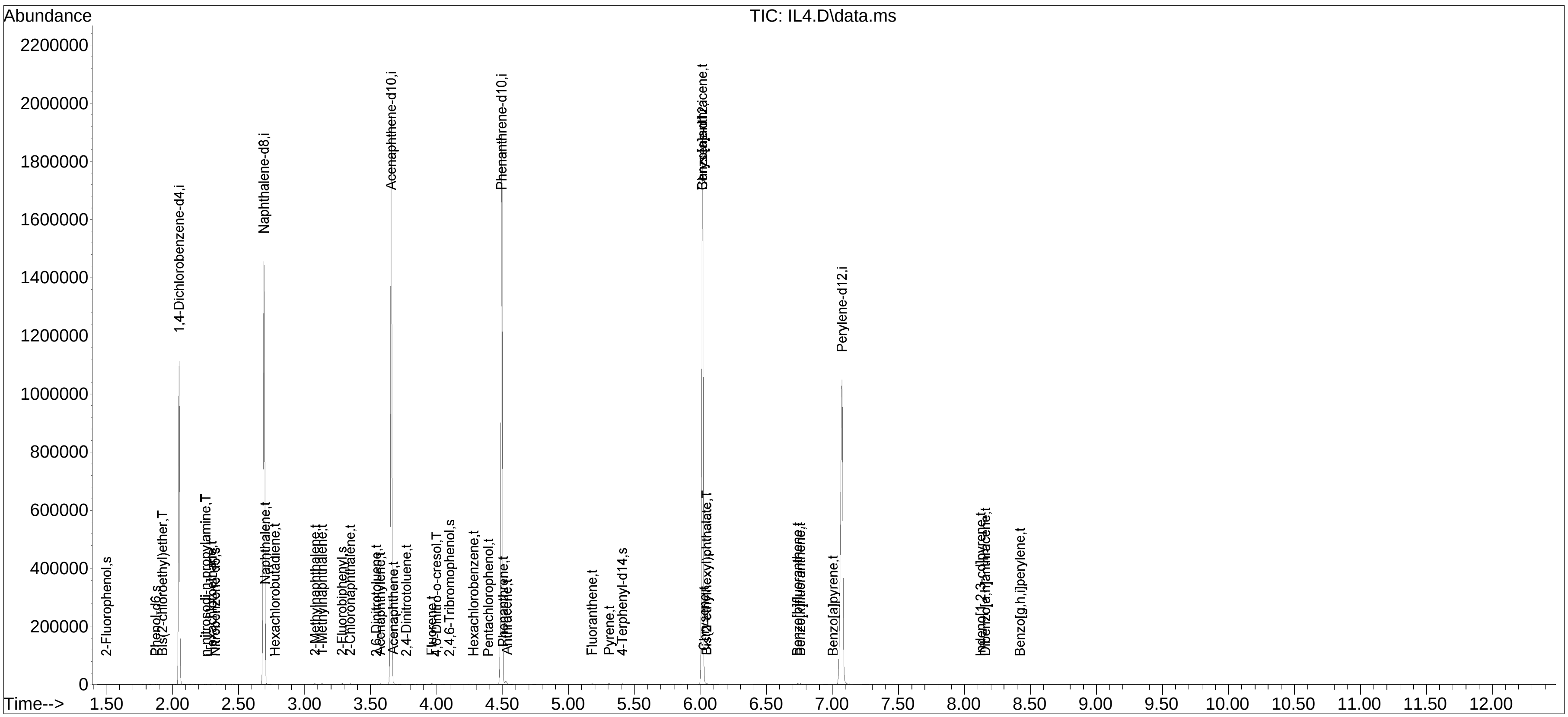
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL4.D
Acq On    : 05 Nov 2024  09:08 am
Operator  : SV120:mrg
Sample    : IL4,32,,10.0ng/mL lot#10892
Misc      : WG1993471
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Dec 02 11:44:40 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

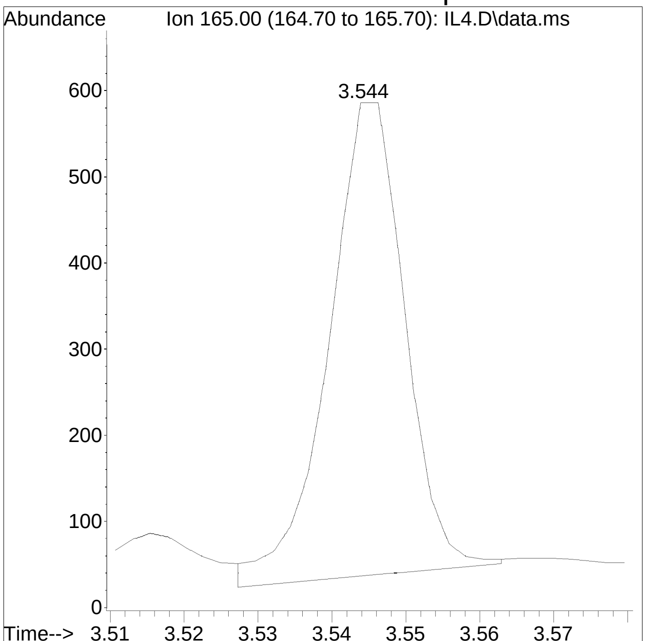
Sub List     : Default - All compounds listed05RVTical\IL8.D•

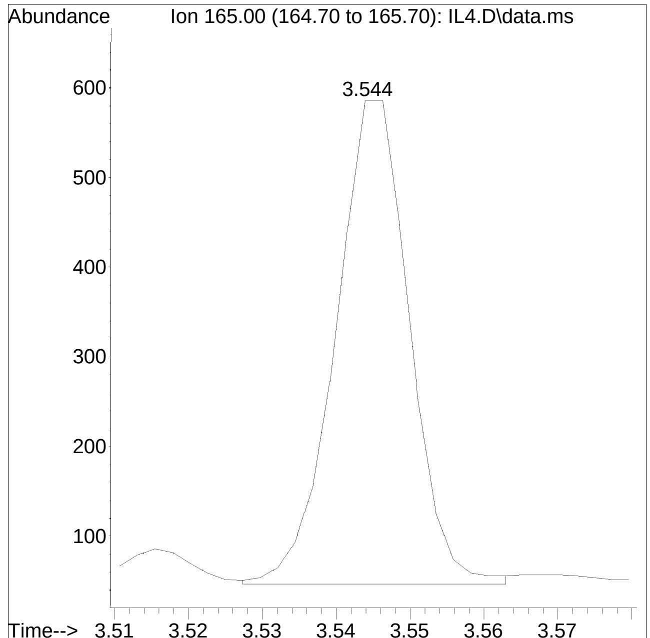


Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL4.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:08 am Instrument : SV120
Sample : IL4,32,,10.0ng/mL lot#1089Quant Date : 12/2/2024 11:37 am

Compound #15: 2,6-Dinitrotoluene



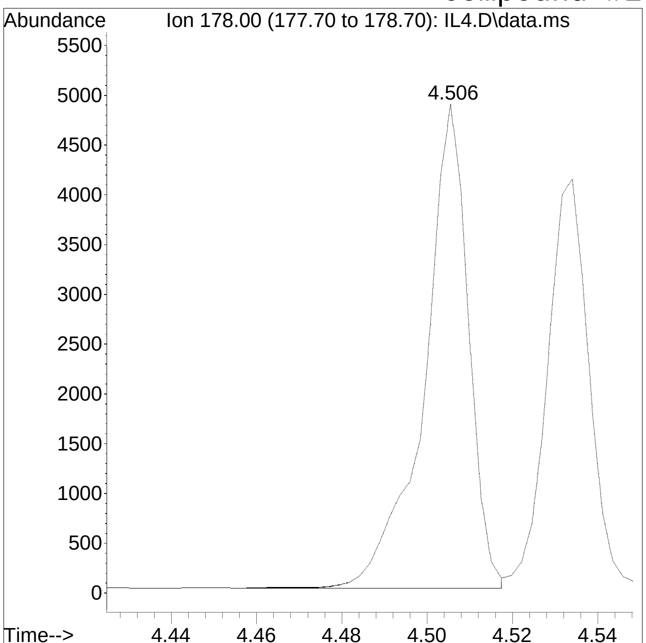

Original Peak Response = 393 Manual Peak Response = 373 M4
M4 = Poor automated baseline construction.

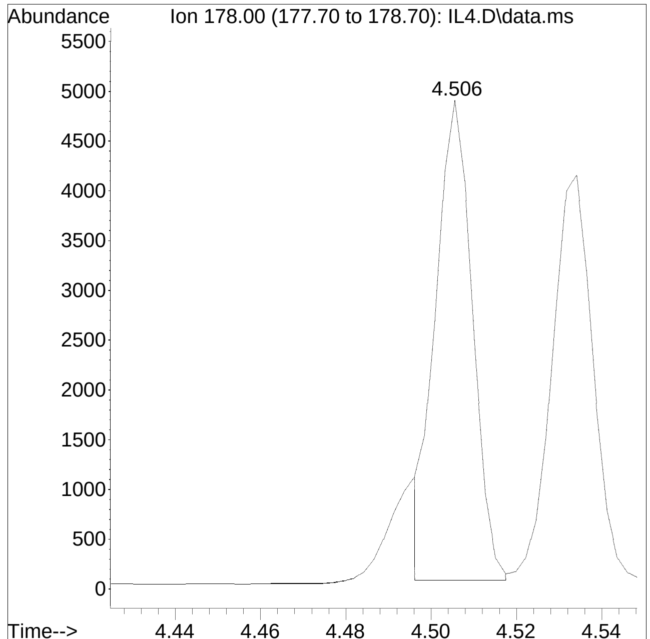
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411Q
Data File : IL4.D
Date Inj'd : 11/5/2024 9:08 am
Sample : IL4,32,,10.0ng/mL lot#1089

Method : SIM-RVT_241105_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 12/2/2024 11:37 am

Compound #26: Phenanthrene




Original Peak Response = 3478

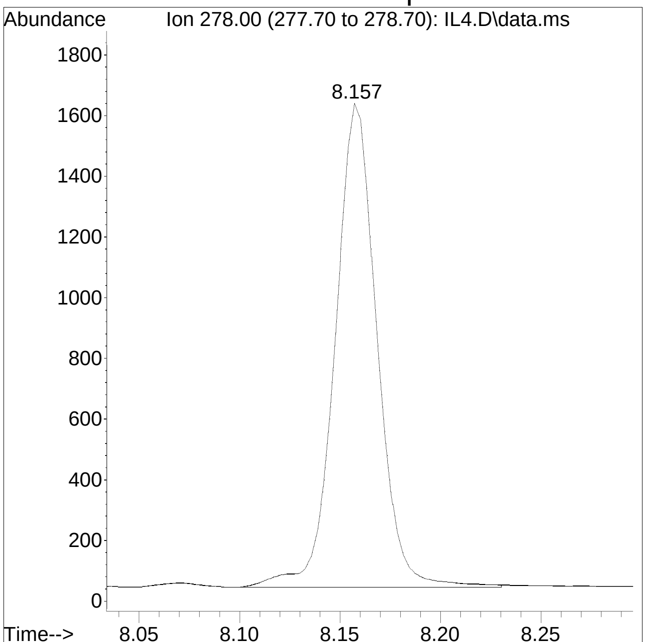
Manual Peak Response = 2903 M6

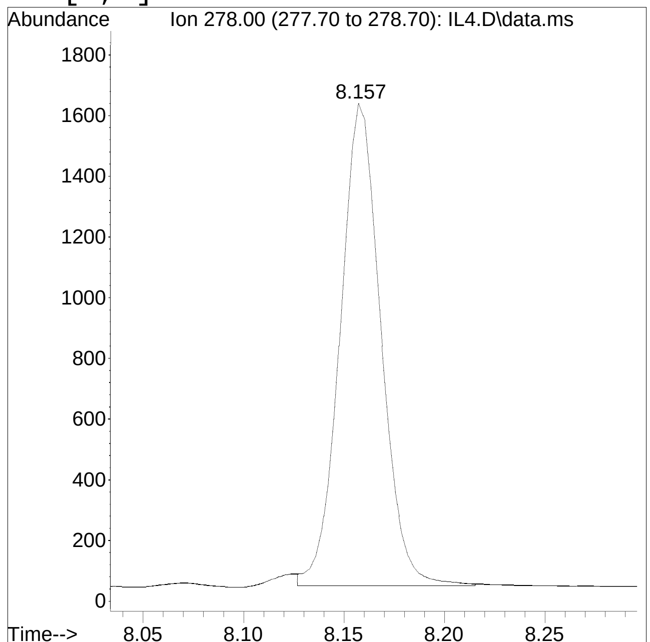
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL4.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:08 am Instrument : SV120
Sample : IL4,32,,10.0ng/mL lot#1089Quant Date : 12/2/2024 11:37 am

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 2314 Manual Peak Response = 2239 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL3.D
Acq On    : 05 Nov 2024  09:24 am
Operator  : SV120:mrg
Sample    : IL3,32,,5.0ng/mL lot# 10893
Misc      : WG1993471
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Dec 02 11:44:28 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List     : Default - All compounds listed

       Compound                     R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4      2.049  152    277209   4000.000 ng/ml    0.00
   Standard Area 1 = 269340                 Recovery   =  102.92%
 8) Naphthalene-d8              2.692  136   1070314   4000.000 ng/ml    0.00
   Standard Area 1 = 1055011                 Recovery   =  101.45%
17) Acenaphthene-d10            3.659  164    639747   4000.000 ng/ml    0.00
   Standard Area 1 = 611711                 Recovery   =  104.58%
22) Phenanthrene-d10            4.492  188   1250139   4000.000 ng/ml    0.00
   Standard Area 1 = 1165771                 Recovery   =  107.24%
31) Chrysene-d12                6.013  240   1105773   4000.000 ng/ml    0.00
   Standard Area 1 = 980774                 Recovery   =  112.74%
36) Perylene-d12                7.069  264   1030640   4000.000 ng/ml    0.00
   Standard Area 1 = 961303                 Recovery   =  107.21%

 System Monitoring Compounds
 2) 2-Fluorophenol              1.504  112       415     5.087 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.25%#
 3) Phenol-d6                   1.877   99       474     4.728 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.24%#
 7) Nitrobenzene-d5             2.323   82       428     4.836 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =    0.48%#
13) 2-Fluorobiphenyl            3.284  172      1100     5.099 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =    0.51%#
21) 2,4,6-Tribromophenol        4.101  330       114     4.476 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.22%#
30) 4-Terphenyl-d14             5.406  244      1167     5.134 ng/ml   0.00
   Spiked Amount   2000.000   Range  30 - 130    Recovery   =    0.26%#

 Target Compounds                                                  Qvalue
 4) Bis(2-chloroethyl)ether     1.926   93        427      1.694 ng/ml    100
 5) n-nitrosodi-n-propylamine   2.250   70        296      4.895 ng/ml     96
 6) Hexachloroethane            2.296  117        180      4.960 ng/ml     99
 9) Naphthalene                 2.701  128       1375      5.139 ng/ml#    90
10) Hexachlorobutadiene         2.776  225        258      5.089 ng/ml     94
11) 2-Methylnaphthalene         3.079  142        934      5.028 ng/ml    100
12) 1-Methylnaphthalene         3.131  142        868      5.080 ng/ml    100
14) 2-Chloronaphthalene         3.345  162        937      5.082 ng/ml    100
15) 2,6-Dinitrotoluene          0.000               0        N.D. d
16) Acenaphthylene              3.576  152       1283      4.826 ng/ml    100
18) Acenaphthene                3.673  153        939M6    4.863 ng/ml
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL3.D
Acq On : 05 Nov 2024 09:24 am
Operator : SV120:mrg
Sample : IL3,32,,5.0ng/mL lot# 10893
Misc : WG1993471
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 02 11:44:28 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.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 | 3.963 | 166 | 1019 | 4.877 ng/ml | 98 |
| 23) 4,6-Dinitro-o-cresol | 4.002 | 198 | 86 | 23.951 ng/ml | 89 |
| 24) Hexachlorobenzene | 4.278 | 284 | 338 | 5.119 ng/ml | 99 |
| 25) Pentachlorophenol | 4.395 | 266 | 115 | 10.237 ng/ml | 97 |
| 26) Phenanthrene | 4.504 | 178 | 1401M6 | 4.703 ng/ml | |
| 27) Anthracene | 4.532 | 178 | 1524 | 4.944 ng/ml | 100 |
| 28) Fluoranthene | 5.181 | 202 | 1702 | 4.960 ng/ml | 100 |
| 29) Pyrene | 5.307 | 202 | 1759 | 4.971 ng/ml | 99 |
| 32) Benzo[a]anthracene | 6.010 | 228 | 4931M6 | 4.974 ng/ml | |
| 33) 3,3'-Dichlorobenzidine | 0.000 | | 0 | N.D. d | |
| 34) Chrysene | 6.025 | 228 | 1377M3 | 4.704 ng/ml | |
| 35) Bis(2-ethylhexyl)phtha... | 6.047 | 149 | 1061 | 5.422 ng/ml | 99 |
| 37) Benzo[b]fluoranthene | 6.734 | 252 | 1525 | 4.876 ng/ml | 100 |
| 38) Benzo[k]fluoranthene | 6.755 | 252 | 1338 | 4.759 ng/ml | 100 |
| 39) Benzo[a]pyrene | 7.002 | 252 | 1177 | 4.595 ng/ml | 100 |
| 40) Indeno[1,2,3-cd]pyrene | 8.119 | 276 | 1218 | 4.650 ng/ml | 99 |
| 41) Dibenzo[a,h]anthracene | 8.155 | 278 | 1151M6 | 4.678 ng/ml | |
| 42) Benzo[g,h,i]perylene | 8.418 | 276 | 1212 | 4.765 ng/ml | 100 |

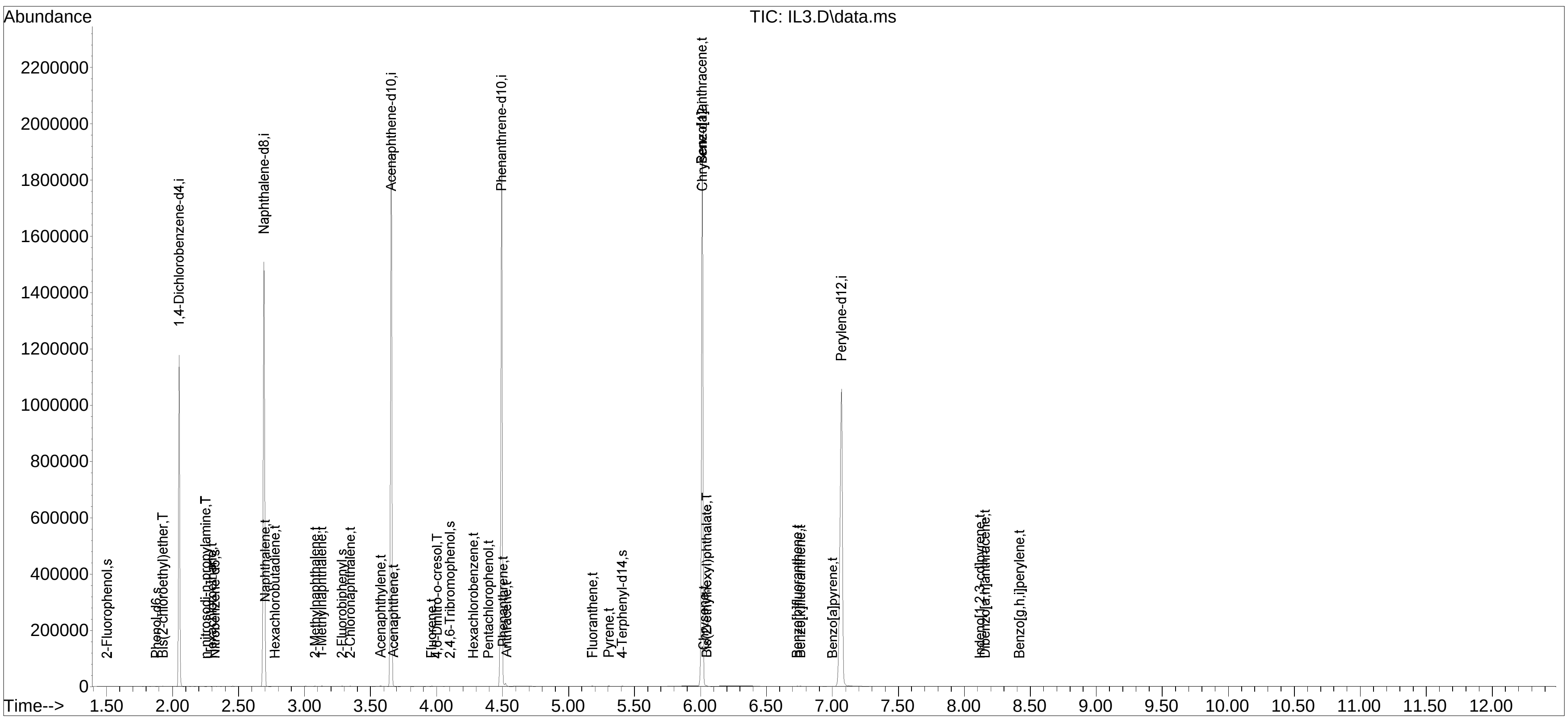
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL3.D
Acq On    : 05 Nov 2024  09:24 am
Operator  : SV120:mrg
Sample    : IL3,32,,5.0ng/mL lot# 10893
Misc      : WG1993471
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Dec 02 11:44:28 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listed05RVTical\IL8.D•

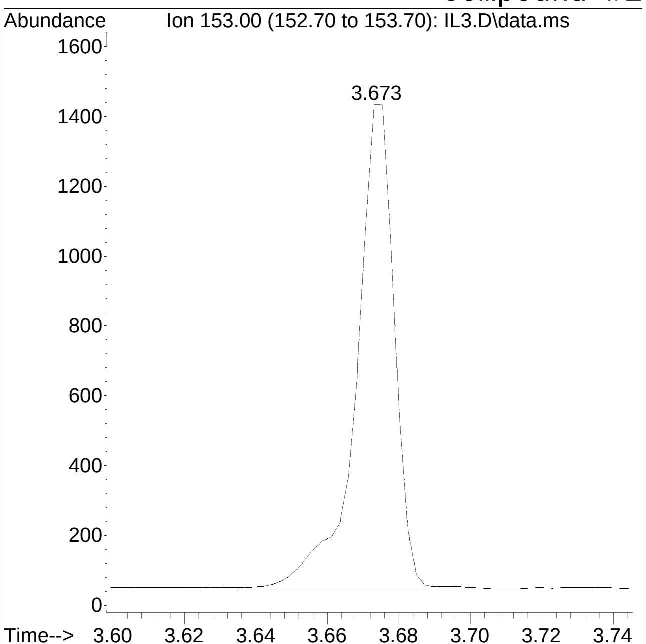


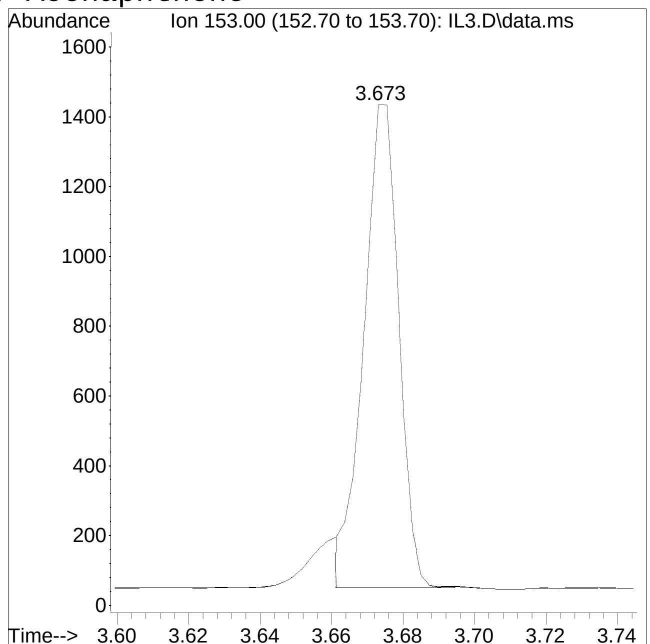
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411Q
Data File : IL3.D
Date Inj'd : 11/5/2024 9:24 am
Sample : IL3,32,,5.0ng/mL lot# 1089

Method : SIM-RVT_241105_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 12/2/2024 11:36 am

Compound #18: Acenaphthene




Original Peak Response = 1037

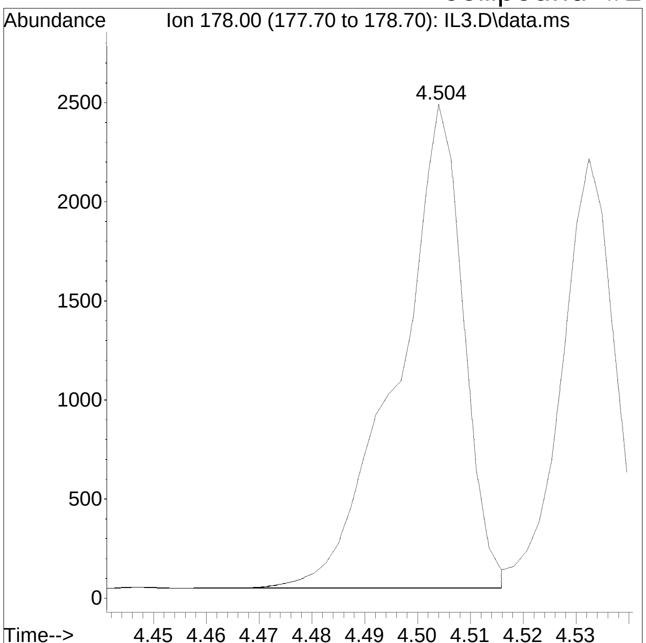
Manual Peak Response = 939 M6

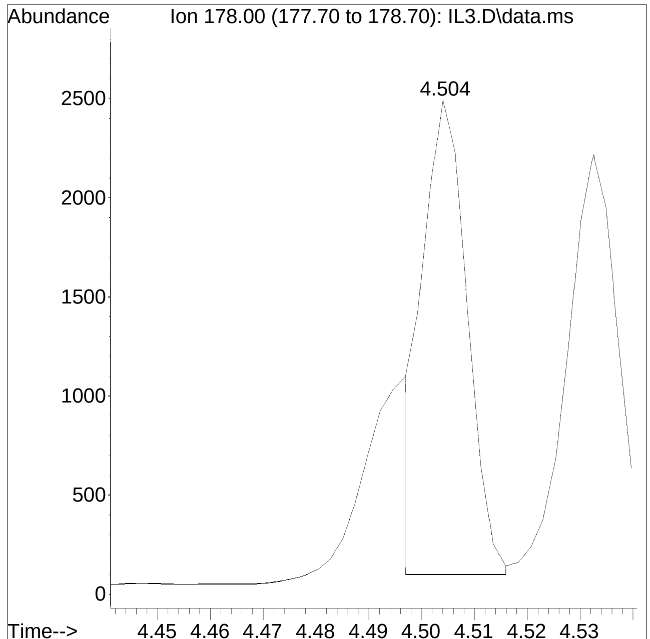
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL3.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:24 am Instrument : SV120
Sample : IL3,32,,5.0ng/mL lot# 1089Quant Date : 12/2/2024 11:36 am

Compound #26: Phenanthrene



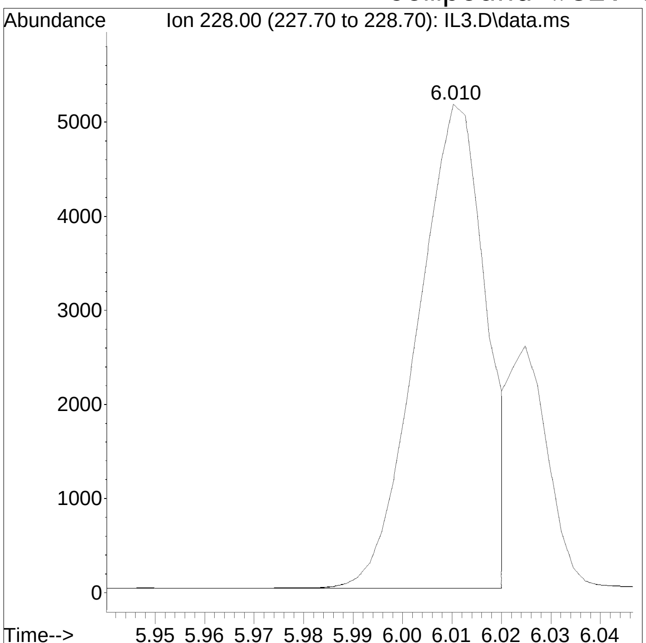



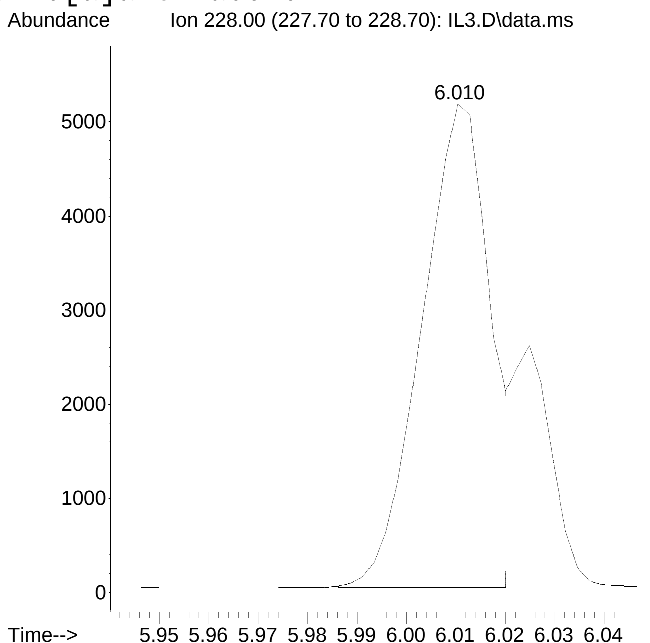

Original Peak Response = 2092 Manual Peak Response = 1401 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

```
Data Path   : I:\8270SIM\sv120\2024\2411QMethod     : SIM-RVT_241105_sv120.M
Data File   : IL3.D                        Operator    : SV120:mrg
Date Inj'd  : 11/5/2024  9:24 am           Instrument  : SV120
Sample      : IL3,32,,5.0ng/mL lot# 1089Quant Date  : 12/2/2024 11:36 am
```

Compound #32: Benzo[a]anthracene



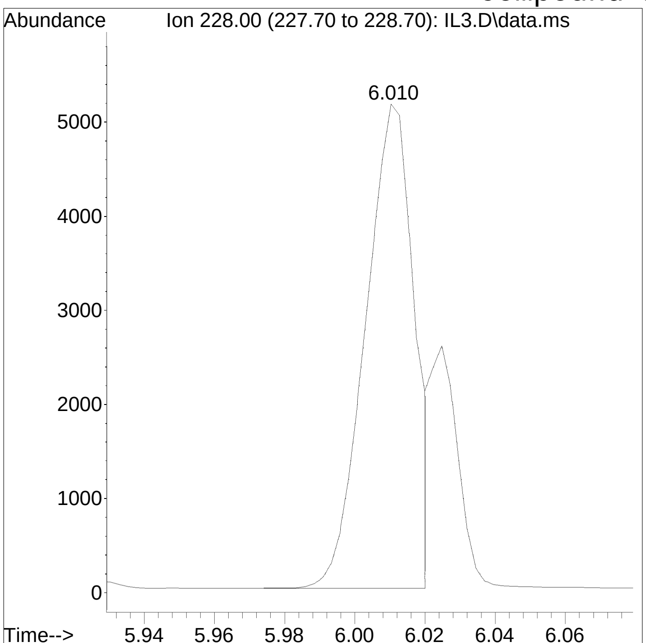

Original Peak Response = 4956    Manual Peak Response = 4931 M6

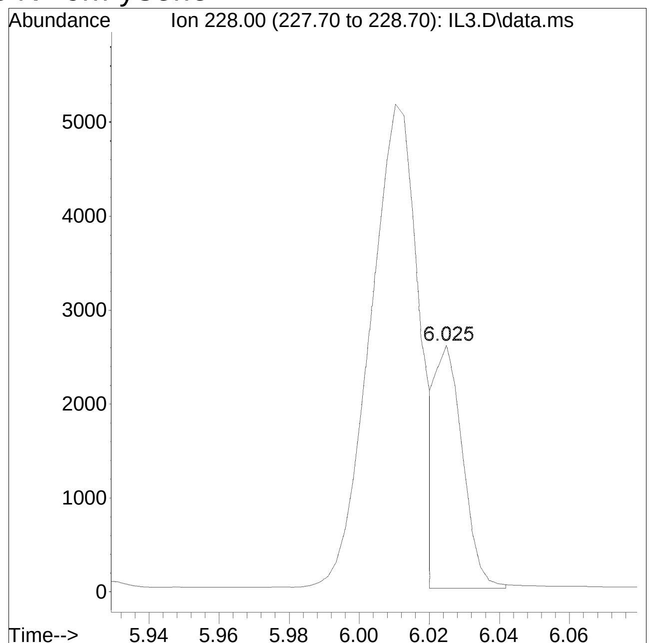
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL3.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:24 am Instrument : SV120
Sample : IL3,32,,5.0ng/mL lot# 1089Quant Date : 12/2/2024 11:36 am

Compound #34: Chrysene



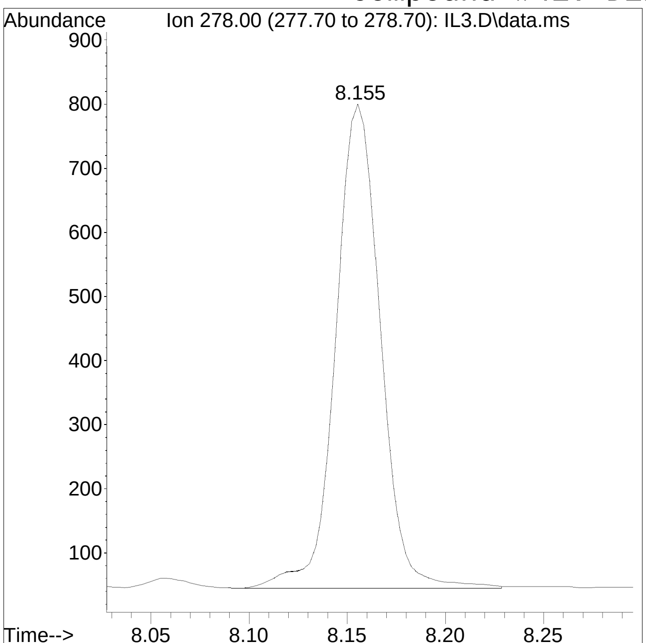



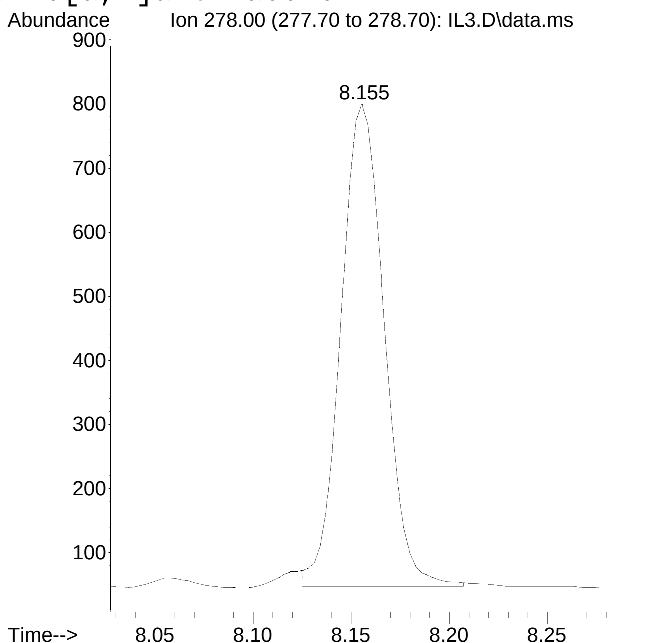

Original Peak Response = 4956 Manual Peak Response = 1377 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : I:\8270SIM\sv120\2024\2411QMethod     : SIM-RVT_241105_sv120.M
Data File   : IL3.D                     Operator    : SV120:mrg
Date Inj'd  : 11/5/2024  9:24 am        Instrument  : SV120
Sample      : IL3,32,,5.0ng/mL lot# 1089Quant Date  : 12/2/2024 11:36 am
```

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 1198    Manual Peak Response = 1151 M6

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

```
                    Quantitation Report    (QT Reviewed)

  Data Path : I:\8270SIM\sv120\2024\241105RVTical\
  Data File : IL2.D
  Acq On    : 05 Nov 2024  09:41 am
  Operator  : SV120:mrg
  Sample    : IL2,32,,2.0ng/mL lot# 10900
  Misc      : WG1993471
  ALS Vial  : 9   Sample Multiplier: 1

  Quant Time: Dec 02 11:44:20 2024
  Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
  Quant Title  : Semivolatiles by GC/MS by modified 8270
  QLast Update : Mon Dec 02 11:36:17 2024
  Response via : Initial Calibration

  CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
  Sub List     : Default - All compounds listed

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
   -------------------------------------------------------------------------
   Internal Standards
   1) 1,4-Dichlorobenzene-d4      2.050  152    300806   4000.000 ng/ml    0.00
     Standard Area 1 = 269340                Recovery   =  111.68%
   8) Naphthalene-d8              2.692  136   1162521   4000.000 ng/ml    0.00
     Standard Area 1 = 1055011                Recovery   =  110.19%
  17) Acenaphthene-d10            3.657  164    694331   4000.000 ng/ml    0.00
     Standard Area 1 = 611711                Recovery   =  113.51%
  22) Phenanthrene-d10            4.494  188   1365605   4000.000 ng/ml    0.00
     Standard Area 1 = 1165771                Recovery   =  117.14%
  31) Chrysene-d12                6.017  240   1182613   4000.000 ng/ml    0.00
     Standard Area 1 = 980774                Recovery   =  120.58%
  36) Perylene-d12                7.074  264   1106733   4000.000 ng/ml    0.00
     Standard Area 1 = 961303                Recovery   =  115.13%

   System Monitoring Compounds
   2) 2-Fluorophenol              1.506  112       191     2.157 ng/ml   0.00
     Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.11%#
   3) Phenol-d6                   1.877   99       222     2.041 ng/ml   0.00
     Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.10%#
   7) Nitrobenzene-d5             2.323   82       187     1.947 ng/ml   0.00
     Spiked Amount   1000.000   Range  30 - 130    Recovery   =    0.19%#
  13) 2-Fluorobiphenyl            3.284  172       509     2.172 ng/ml   0.00
     Spiked Amount   1000.000   Range  30 - 130    Recovery   =    0.22%#
  21) 2,4,6-Tribromophenol        4.099  330        52M4     1.881 ng/ml   0.00

     Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.09%#
  30) 4-Terphenyl-d14             5.409  244       545     2.195 ng/ml   0.00
     Spiked Amount   2000.000   Range  30 - 130    Recovery   =    0.11%#

   Target Compounds                                                 Qvalue
   4) Bis(2-chloroethyl)ether     1.920   93        504      2.124 ng/ml#    44
   5) n-nitrosodi-n-propylamine   0.000               0        N.D. d
   6) Hexachloroethane            2.296  117         92      2.336 ng/ml     96
   9) Naphthalene                 2.702  128        671      2.309 ng/ml#    79
  10) Hexachlorobutadiene         2.776  225        119      2.161 ng/ml     91
  11) 2-Methylnaphthalene         3.080  142        431      2.136 ng/ml     99
  12) 1-Methylnaphthalene         3.132  142        397      2.139 ng/ml    100
  14) 2-Chloronaphthalene         3.345  162        436      2.177 ng/ml     99
  15) 2,6-Dinitrotoluene          0.000               0        N.D. d
  16) Acenaphthylene              3.576  152        610      2.112 ng/ml     99
```

Quantitation Report    (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL2.D
Acq On    : 05 Nov 2024  09:41 am
Operator  : SV120:mrg
Sample    : IL2,32,,2.0ng/mL lot# 10900
Misc      : WG1993471
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Dec 02 11:44:20 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List     : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 18) Acenaphthene | 3.673 | 153 | 454M6 | 2.166 ng/ml | |
| 19) 2,4-Dinitrotoluene | 0.000 | | 0 | N.D. d | |
| 20) Fluorene | 3.961 | 166 | 487M6 | 2.148 ng/ml | |
| 23) 4,6-Dinitro-o-cresol | 0.000 | | 0 | N.D. | |
| 24) Hexachlorobenzene | 4.278 | 284 | 160 | 2.218 ng/ml | 94 |
| 25) Pentachlorophenol | 0.000 | | 0 | N.D. d | |
| 26) Phenanthrene | 4.506 | 178 | 635M6 | 1.951 ng/ml | |
| 27) Anthracene | 4.532 | 178 | 690M6 | 2.049 ng/ml | |
| 28) Fluoranthene | 5.180 | 202 | 814 | 2.172 ng/ml# | 94 |
| 29) Pyrene | 5.306 | 202 | 839 | 2.171 ng/ml | 99 |
| 32) Benzo[a]anthracene | 6.014 | 228 | 4239M6 | 2.098 ng/ml | |
| 33) 3,3'-Dichlorobenzidine | 0.000 | | 0 | N.D. d | |
| 34) Chrysene | 6.024 | 228 | 584M3 | 1.865 ng/ml | |
| 35) Bis(2-ethylhexyl)phtha... | 6.048 | 149 | 922 | 4.406 ng/ml | 98 |
| 37) Benzo[b]fluoranthene | 6.739 | 252 | 719 | 2.141 ng/ml | 99 |
| 38) Benzo[k]fluoranthene | 6.760 | 252 | 584 | 1.934 ng/ml | 99 |
| 39) Benzo[a]pyrene | 7.007 | 252 | 542 | 1.970 ng/ml | 99 |
| 40) Indeno[1,2,3-cd]pyrene | 8.127 | 276 | 555 | 1.973 ng/ml | 97 |
| 41) Dibenzo[a,h]anthracene | 8.160 | 278 | 526M6 | 1.991 ng/ml | |
| 42) Benzo[g,h,i]perylene | 8.422 | 276 | 551 | 2.017 ng/ml | 99 |

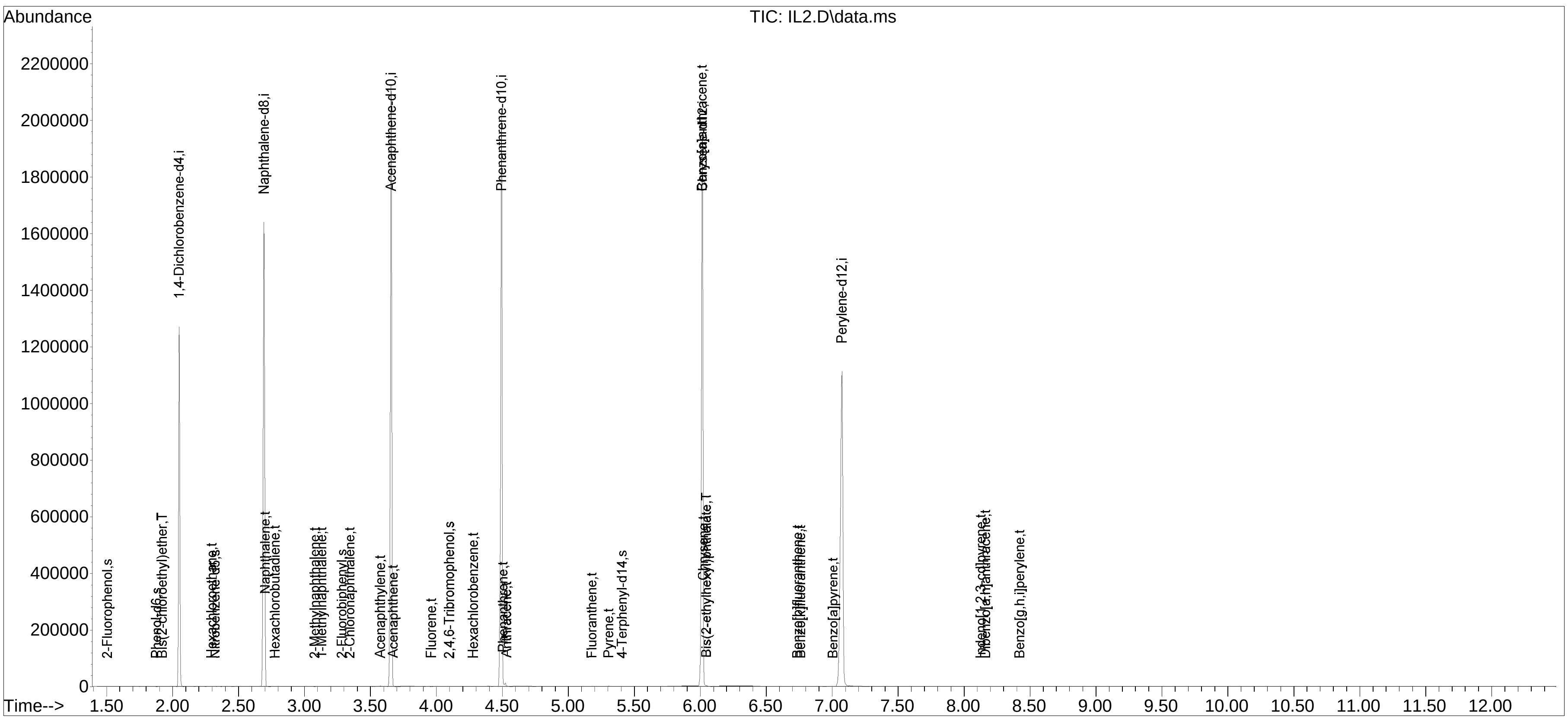
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL2.D
Acq On : 05 Nov 2024 09:41 am
Operator : SV120:mrg
Sample : IL2,32,,2.0ng/mL lot# 10900
Misc : WG1993471
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 02 11:44:20 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed05RVTical\IL8.D•

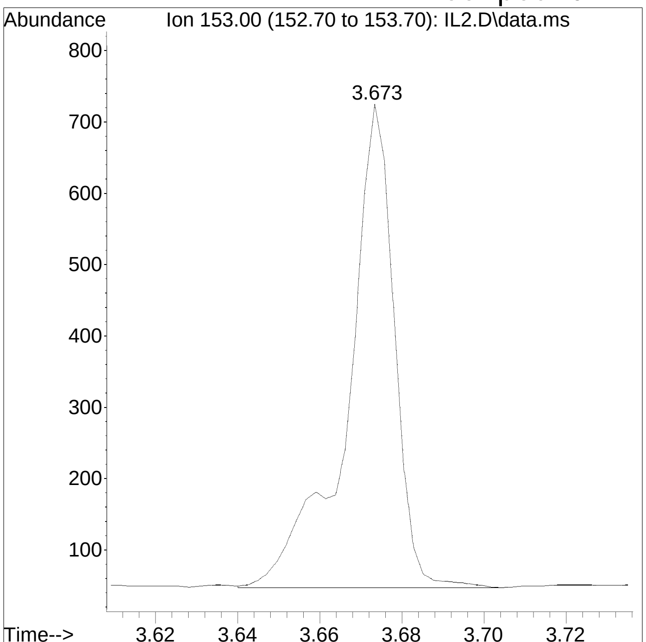


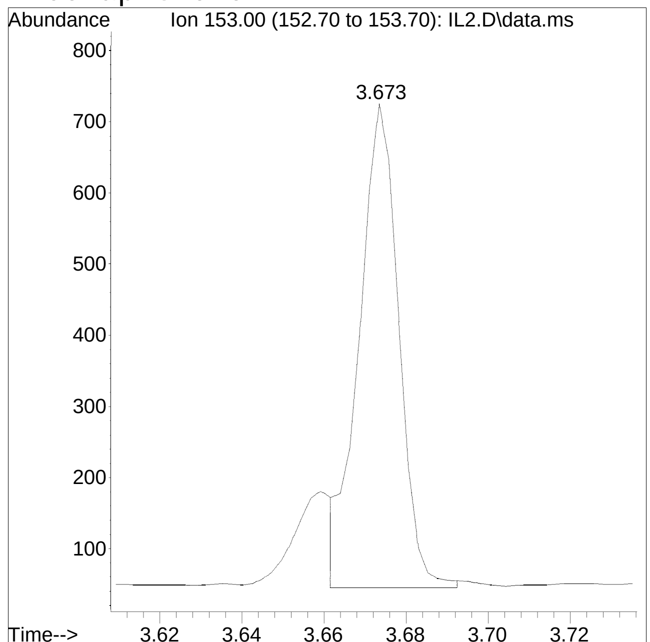
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411Q
Data File : IL2.D
Date Inj'd : 11/5/2024 9:41 am
Sample : IL2,32,,2.0ng/mL lot# 1090

Method : SIM-RVT_241105_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 12/2/2024 11:36 am

Compound #18: Acenaphthene




Original Peak Response = 539

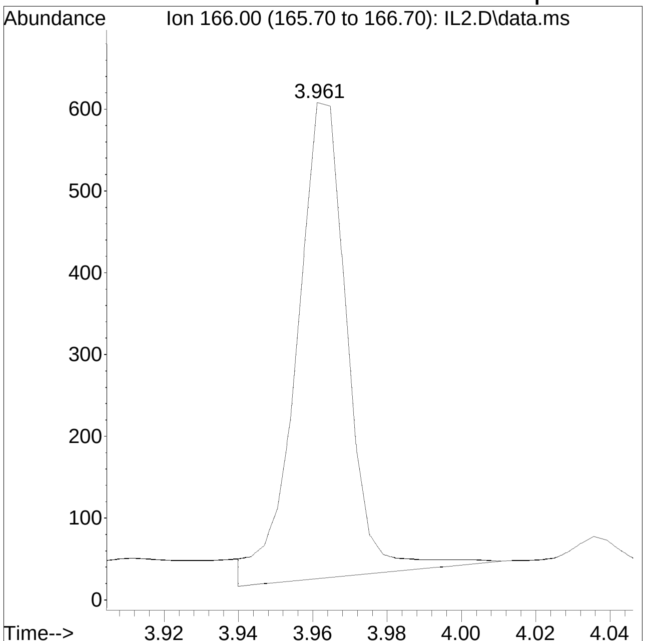
Manual Peak Response = 454 M6

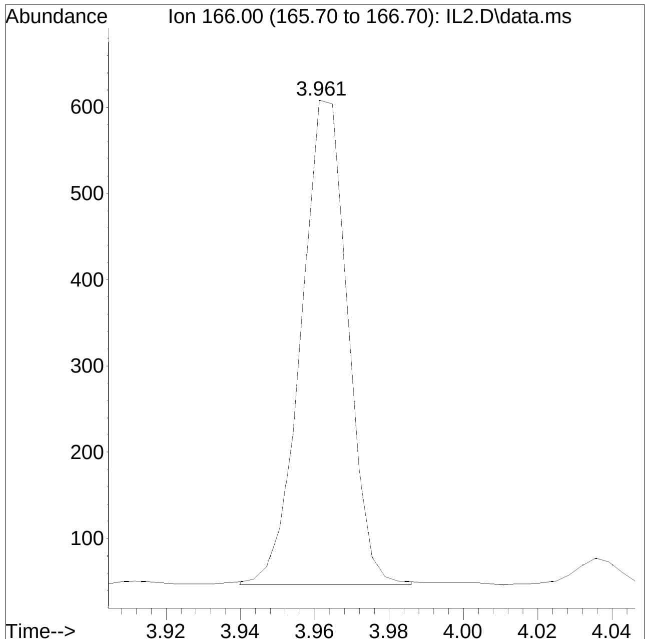
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL2.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:41 am Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1090Quant Date : 12/2/2024 11:36 am

Compound #20: Fluorene



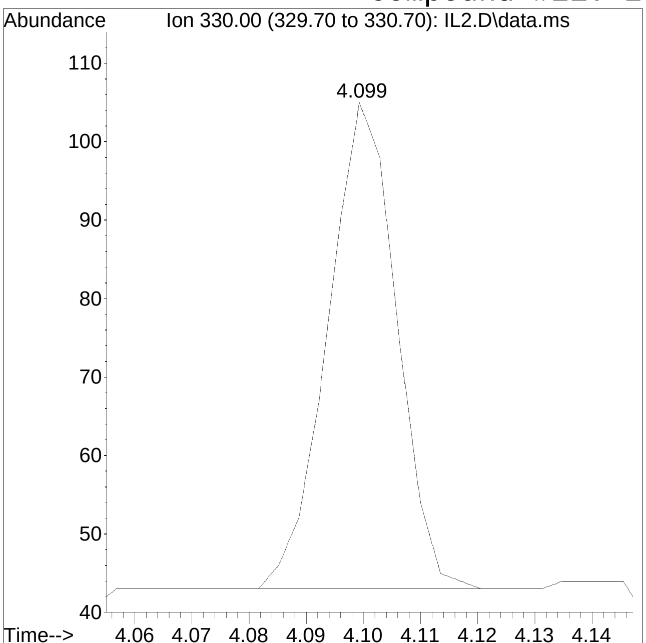



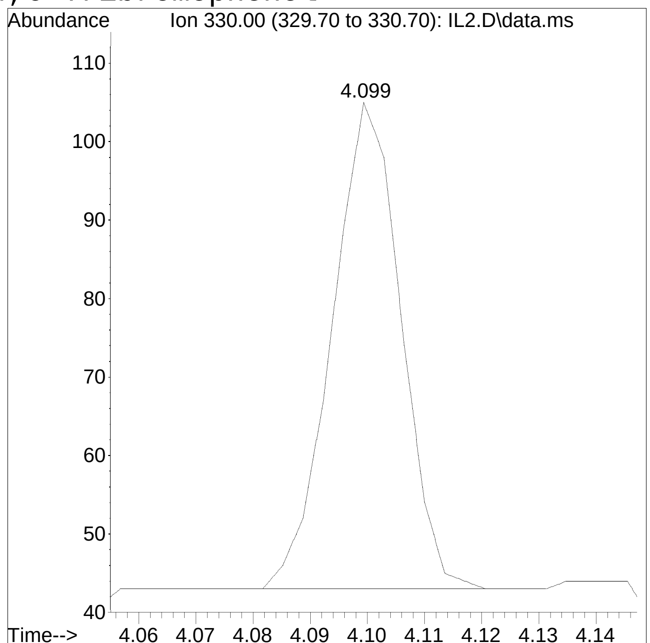

Original Peak Response = 553 Manual Peak Response = 487 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

```
Data Path    : I:\8270SIM\sv120\2024\2411QMethod     : SIM-RVT_241105_sv120.M
Data File    : IL2.D                       Operator    : SV120:mrg
Date Inj'd   : 11/5/2024  9:41 am          Instrument  : SV120
Sample       : IL2,32,,2.0ng/mL lot# 1090Quant Date  : 12/2/2024 11:36 am
```

Compound #21: 2,4,6-Tribromophenol




Original Peak Response = 52

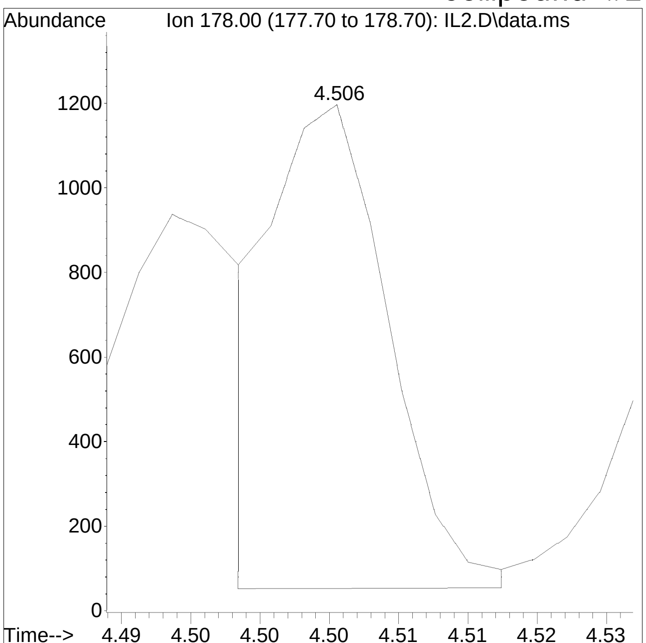
Manual Peak Response = 52 M4

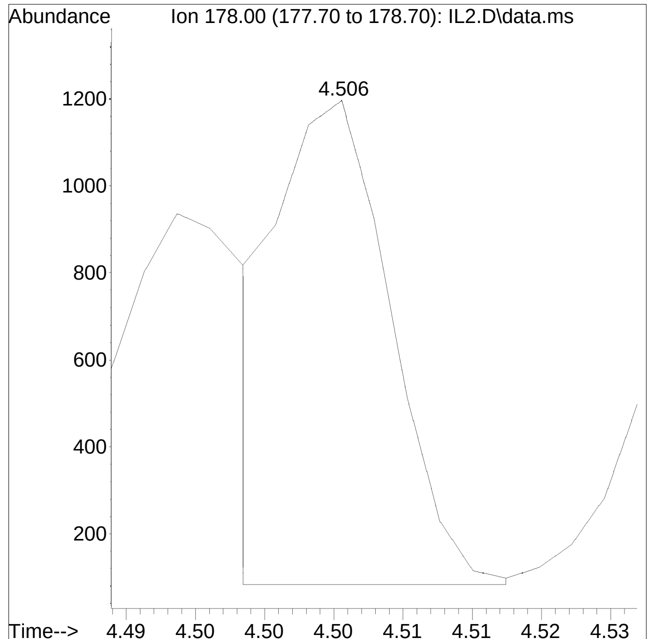
M4 = Poor automated baseline construction.

# Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL2.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:41 am Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1090Quant Date : 12/2/2024 11:36 am

Compound #26: Phenanthrene



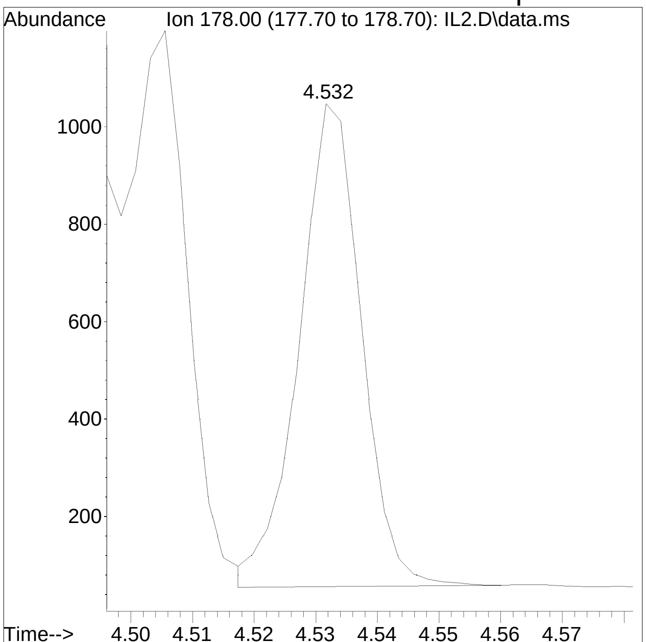



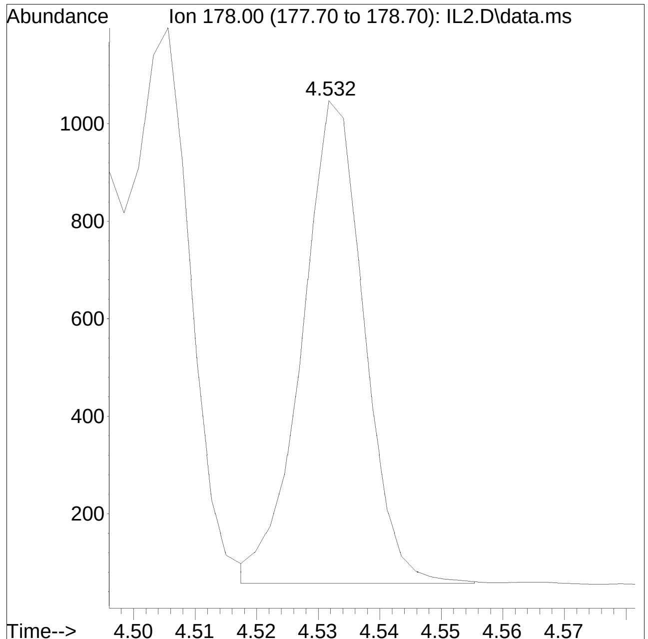

Original Peak Response = 669 Manual Peak Response = 635 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

```
Data Path   : I:\8270SIM\sv120\2024\2411QMethod     : SIM-RVT_241105_sv120.M
Data File   : IL2.D                    Operator    : SV120:mrg
Date Inj'd  : 11/5/2024  9:41 am       Instrument  : SV120
Sample      : IL2,32,,2.0ng/mL lot# 1090Quant Date  : 12/2/2024 11:36 am
```

Compound #27: Anthracene



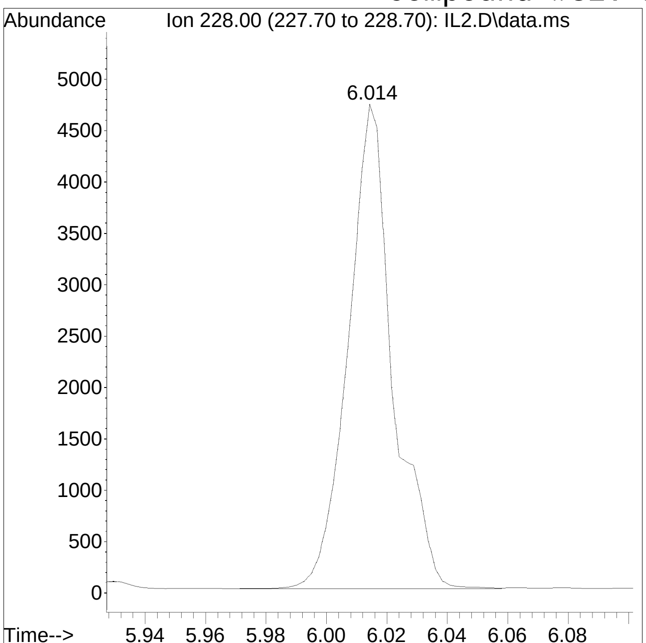



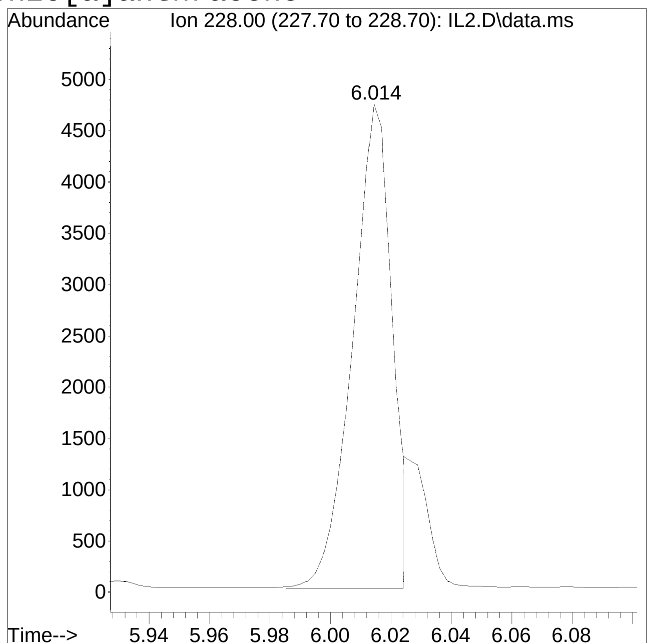

Original Peak Response = 692 Manual Peak Response = 690 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL2.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:41 am Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1090Quant Date : 12/2/2024 11:36 am

Compound #32: Benzo[a]anthracene



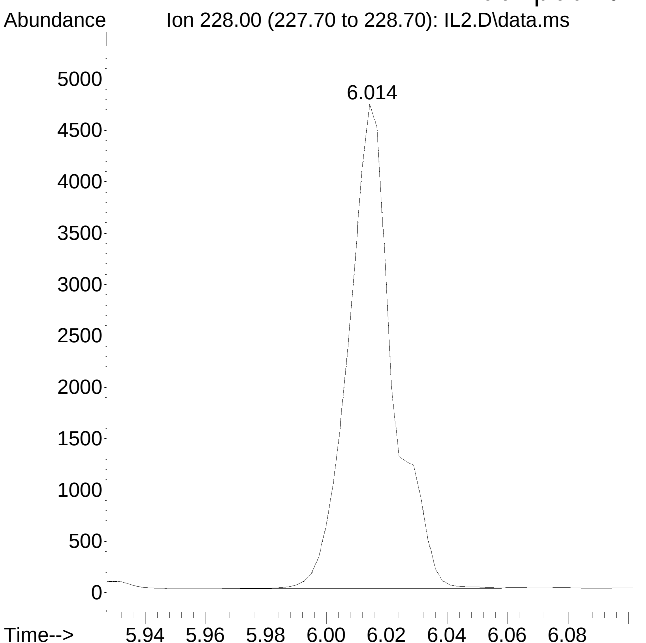



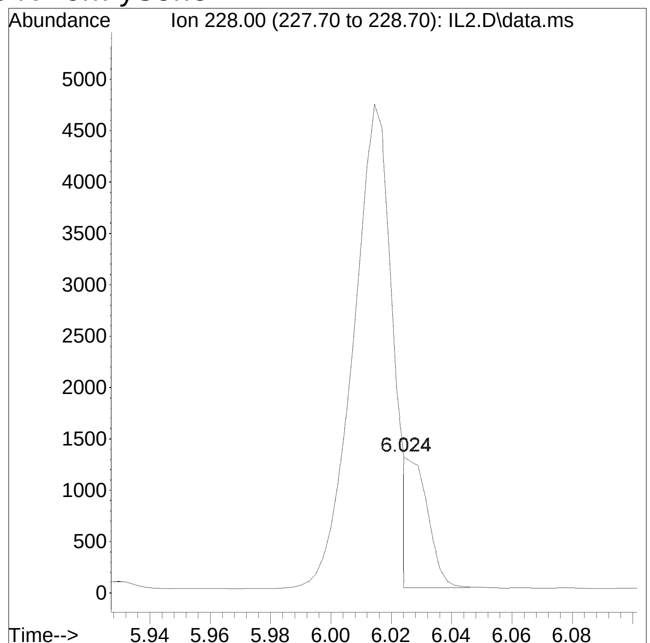

Original Peak Response = 4823 Manual Peak Response = 4239 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL2.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:41 am Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1090Quant Date : 12/2/2024 11:36 am

Compound #34: Chrysene



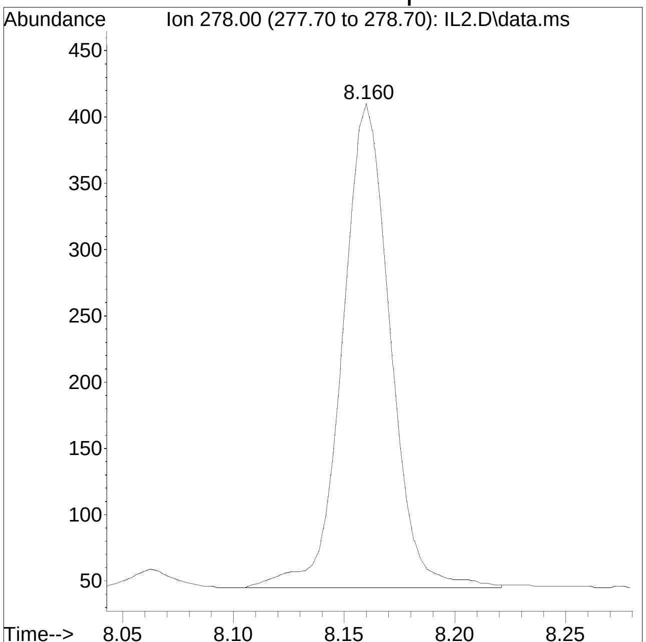



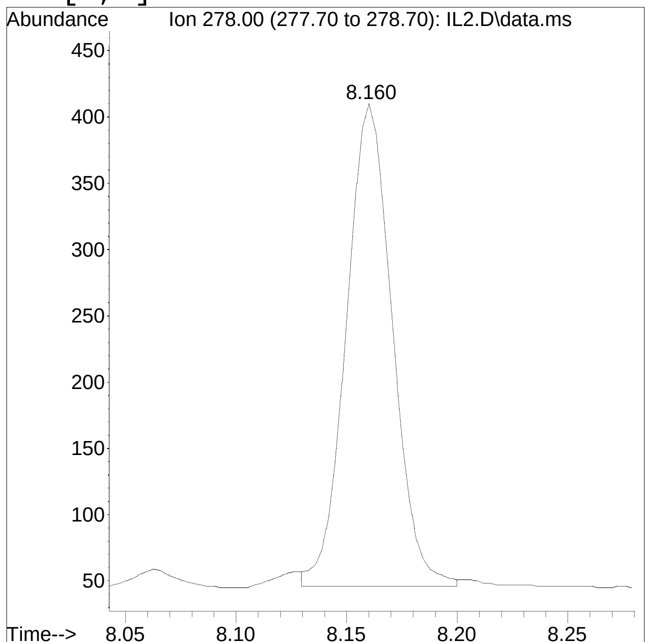

Original Peak Response = 4823 Manual Peak Response = 584 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

```
Data Path   : I:\8270SIM\sv120\2024\2411QMethod     : SIM-RVT_241105_sv120.M
Data File   : IL2.D                       Operator   : SV120:mrg
Date Inj'd  : 11/5/2024  9:41 am          Instrument : SV120
Sample      : IL2,32,,2.0ng/mL lot# 1090Quant Date : 12/2/2024 11:36 am
```

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 547    Manual Peak Response = 526 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL1.D
Acq On : 05 Nov 2024 09:57 am
Operator : SV120:mrg
Sample : IL1,32,,1.0ng/mL lot# 10895
Misc : WG1993471
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 02 11:44:05 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

```
        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ------------------------------------------------------------------------------
 Internal Standards
  1) 1,4-Dichlorobenzene-d4      2.049  152    284403   4000.000 ng/ml    0.00
    Standard Area 1 = 269340                Recovery   =  105.59%
  8) Naphthalene-d8              2.692  136   1105345   4000.000 ng/ml    0.00
    Standard Area 1 = 1055011                Recovery   =  104.77%
 17) Acenaphthene-d10            3.657  164    659084   4000.000 ng/ml    0.00
    Standard Area 1 = 611711                Recovery   =  107.74%
 22) Phenanthrene-d10            4.493  188   1299114   4000.000 ng/ml    0.00
    Standard Area 1 = 1165771                Recovery   =  111.44%
 31) Chrysene-d12                6.013  240   1133436   4000.000 ng/ml    0.00
    Standard Area 1 = 980774                Recovery   =  115.57%
 36) Perylene-d12                7.071  264   1038005   4000.000 ng/ml    0.00
    Standard Area 1 = 961303                Recovery   =  107.98%

 System Monitoring Compounds
  2) 2-Fluorophenol              1.506  112        84     1.004 ng/ml   0.00
    Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.05%#
  3) Phenol-d6                   1.877   99       101     0.982 ng/ml   0.00
    Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.05%#
  7) Nitrobenzene-d5             2.323   82        92     1.013 ng/ml   0.00
    Spiked Amount   1000.000   Range  30 - 130    Recovery   =    0.10%#
 13) 2-Fluorobiphenyl            3.284  172       247     1.109 ng/ml   0.00
    Spiked Amount   1000.000   Range  30 - 130    Recovery   =    0.11%#
 21) 2,4,6-Tribromophenol        0.000  330         0     0.000 ng/ml
    Spiked Amount   2000.000   Range  15 - 110    Recovery   =    0.00%#
 30) 4-Terphenyl-d14             5.405  244       295M4     1.249 ng/ml   0.00

    Spiked Amount   2000.000   Range  30 - 130    Recovery   =    0.06%#

 Target Compounds                                                    Qvalue
  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.
  9) Naphthalene                 0.000                 0       N.D. d
 10) Hexachlorobutadiene         0.000                 0       N.D. d
 11) 2-Methylnaphthalene         3.080  142       205      1.069 ng/ml    100
 12) 1-Methylnaphthalene         3.131  142       185      1.048 ng/ml     98
 14) 2-Chloronaphthalene         3.345  162       204      1.071 ng/ml     99
 15) 2,6-Dinitrotoluene          0.000                 0       N.D. d
 16) Acenaphthylene              3.576  152       279      1.016 ng/ml    100
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL1.D
Acq On : 05 Nov 2024 09:57 am
Operator : SV120:mrg
Sample : IL1,32,,1.0ng/mL lot# 10895
Misc : WG1993471
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 02 11:44:05 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 18) Acenaphthene | 3.673 | 153 | 222M4 | 1.116 ng/ml | |
| 19) 2,4-Dinitrotoluene | 0.000 | | 0 | N.D. d | |
| 20) Fluorene | 3.963 | 166 | 231 | 1.073 ng/ml | 99 |
| 23) 4,6-Dinitro-o-cresol | 0.000 | | 0 | N.D. | |
| 24) Hexachlorobenzene | 0.000 | | 0 | N.D. d | |
| 25) Pentachlorophenol | 0.000 | | 0 | N.D. d | |
| 26) Phenanthrene | 4.503 | 178 | 259M3 | 0.837 ng/ml | |
| 27) Anthracene | 4.531 | 178 | 334 | 1.043 ng/ml | 99 |
| 28) Fluoranthene | 5.179 | 202 | 409 | 1.147 ng/ml# | 90 |
| 29) Pyrene | 5.306 | 202 | 416 | 1.131 ng/ml | 99 |
| 32) Benzo[a]anthracene | 6.013 | 228 | 3666M1 | 0.947 ng/ml | |
| 33) 3,3'-Dichlorobenzidine | 0.000 | | 0 | N.D. d | |
| 34) Chrysene | 6.025 | 228 | 194M4 | 0.647 ng/ml | |
| 35) Bis(2-ethylhexyl)phtha... | 6.046 | 149 | 964 | 4.806 ng/ml | 99 |
| 37) Benzo[b]fluoranthene | 6.739 | 252 | 325 | 1.032 ng/ml | 100 |
| 38) Benzo[k]fluoranthene | 6.760 | 252 | 291 | 1.028 ng/ml | 99 |
| 39) Benzo[a]pyrene | 7.004 | 252 | 252 | 0.977 ng/ml | 98 |
| 40) Indeno[1,2,3-cd]pyrene | 8.123 | 276 | 256 | 0.970 ng/ml | 99 |
| 41) Dibenzo[a,h]anthracene | 8.157 | 278 | 243M6 | 0.981 ng/ml | |
| 42) Benzo[g,h,i]perylene | 8.419 | 276 | 259 | 1.011 ng/ml | 97 |

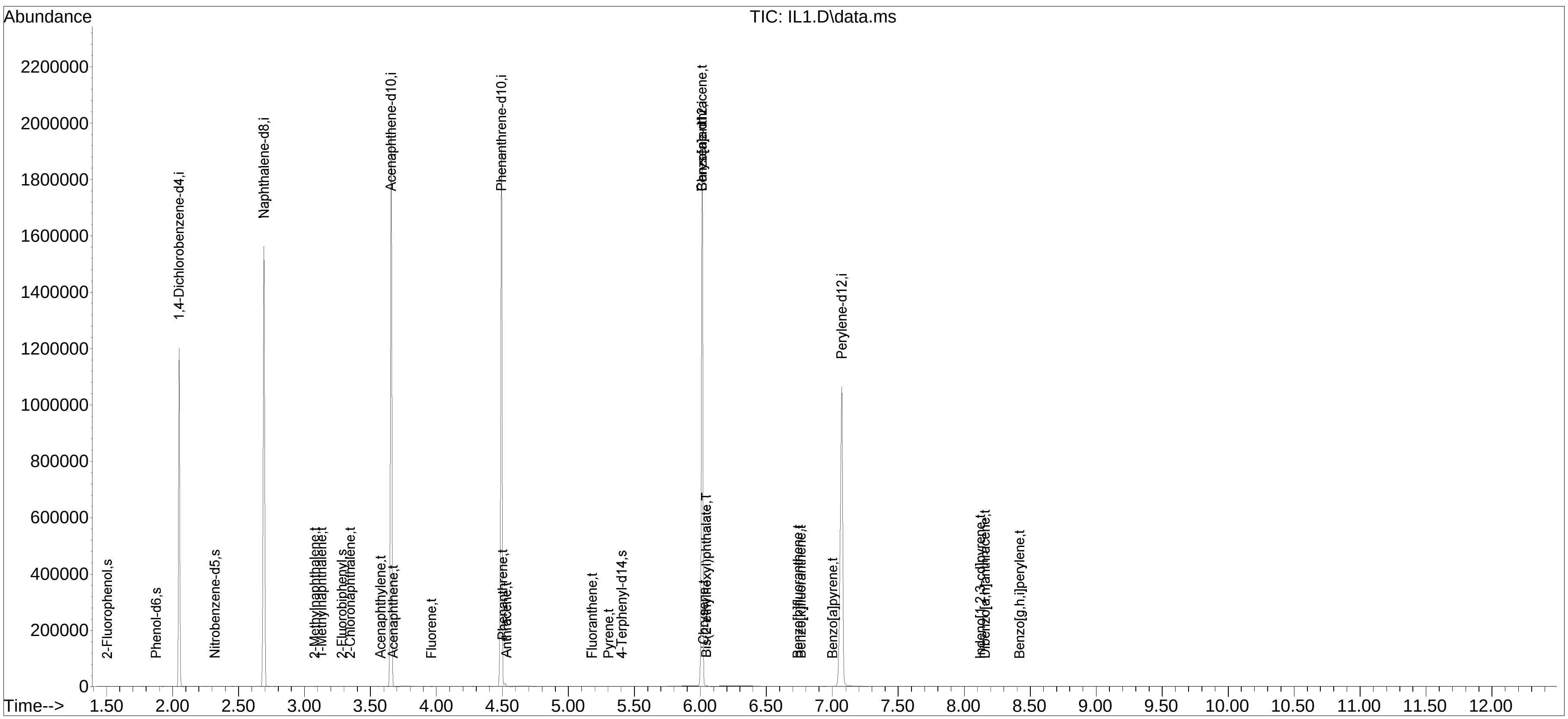
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL1.D
Acq On    : 05 Nov 2024  09:57 am
Operator  : SV120:mrg
Sample    : IL1,32,,1.0ng/mL lot# 10895
Misc      : WG1993471
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Dec 02 11:44:05 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listed05RVTical\IL8.D•

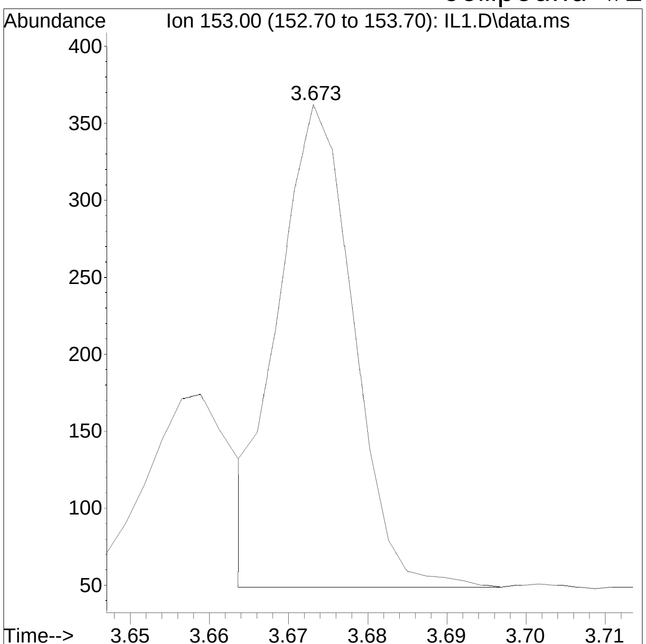


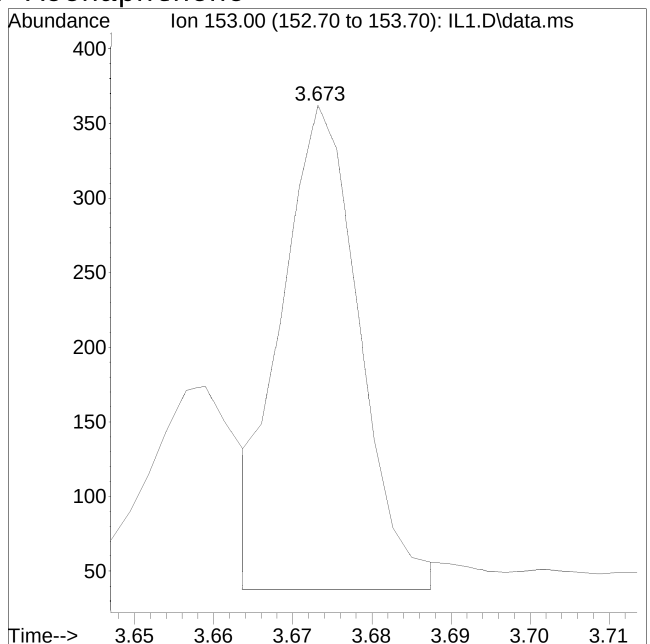
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411Q
Data File : IL1.D
Date Inj'd : 11/5/2024 9:57 am
Sample : IL1,32,,1.0ng/mL lot# 1089

Method : SIM-RVT_241105_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 12/2/2024 11:36 am

Compound #18: Acenaphthene




Original Peak Response = 208

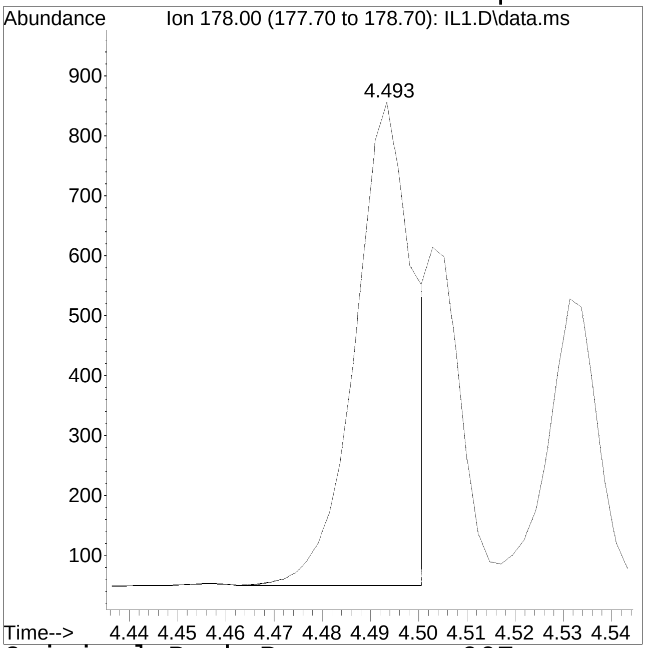
Manual Peak Response = 222 M4

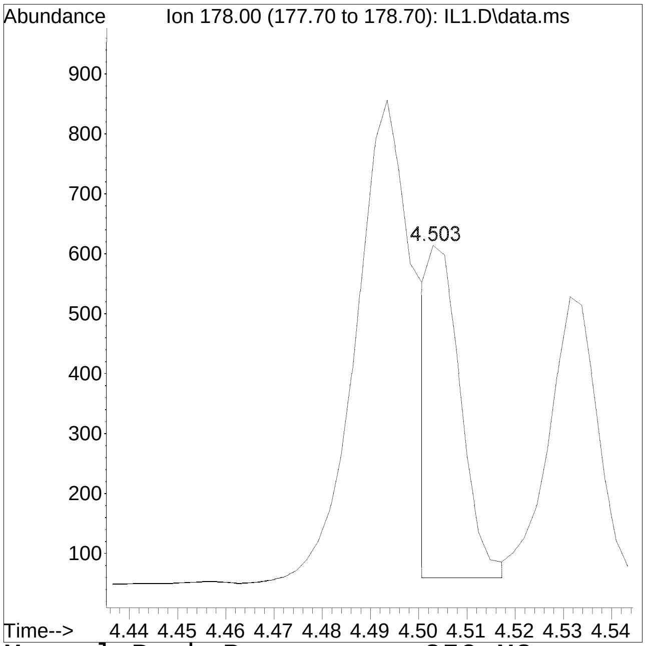
M4 = Poor automated baseline construction.

Manual Integration Report

```
Data Path   : I:\8270SIM\sv120\2024\2411QMethod     : SIM-RVT_241105_sv120.M
Data File   : IL1.D                      Operator   : SV120:mrg
Date Inj'd  : 11/5/2024  9:57 am         Instrument : SV120
Sample      : IL1,32,,1.0ng/mL lot# 1089Quant Date  : 12/2/2024 11:36 am
```

Compound #26: Phenanthrene



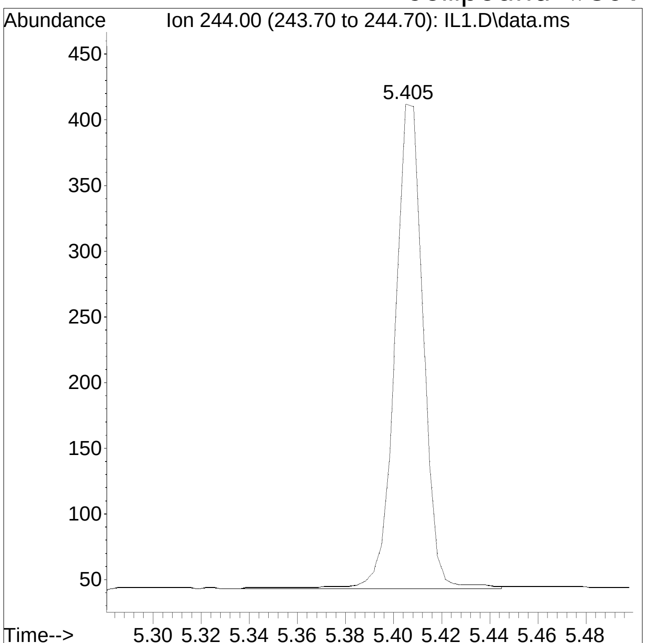

Original Peak Response = 667        Manual Peak Response = 259 M3

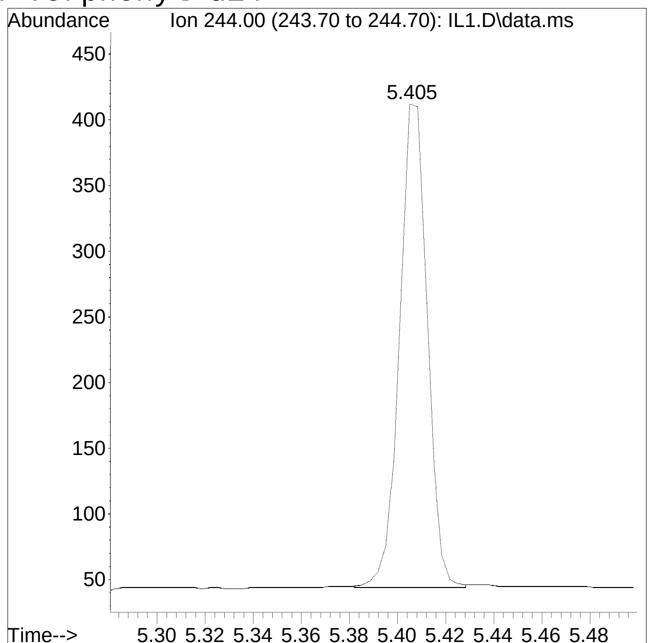
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL1.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:57 am Instrument : SV120
Sample : IL1,32,,1.0ng/mL lot# 1089Quant Date : 12/2/2024 11:36 am

Compound #30: 4-Terphenyl-d14



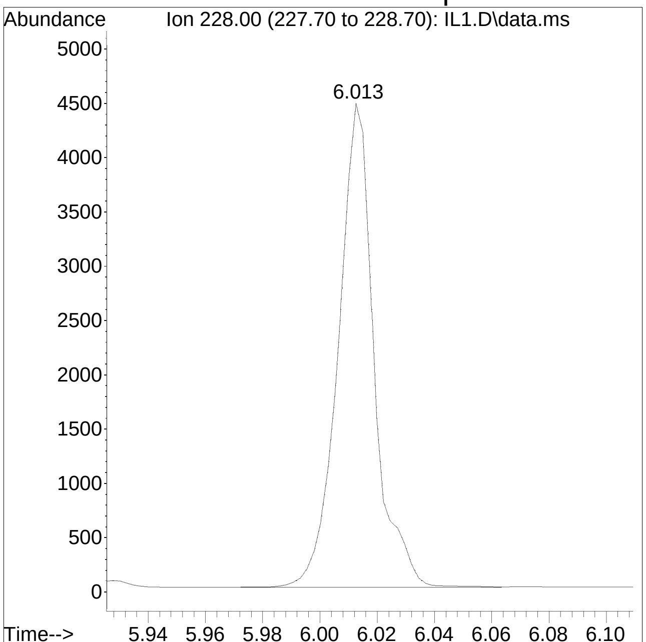

Original Peak Response = 304 Manual Peak Response = 295 M4
M4 = Poor automated baseline construction.

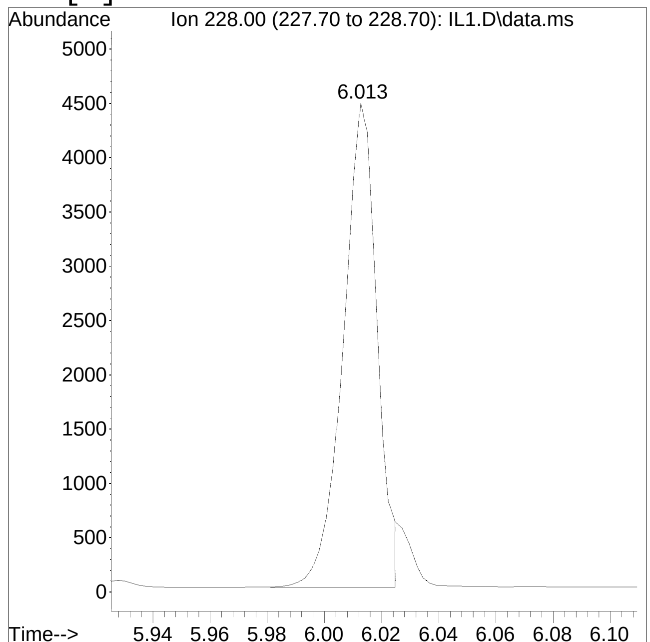
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411Q
Data File : IL1.D
Date Inj'd : 11/5/2024 9:57 am
Sample : IL1,32,,1.0ng/mL lot# 1089

Method : SIM-RVT_241105_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 12/2/2024 11:36 am

Compound #32: Benzo[a]anthracene




Original Peak Response = 3863

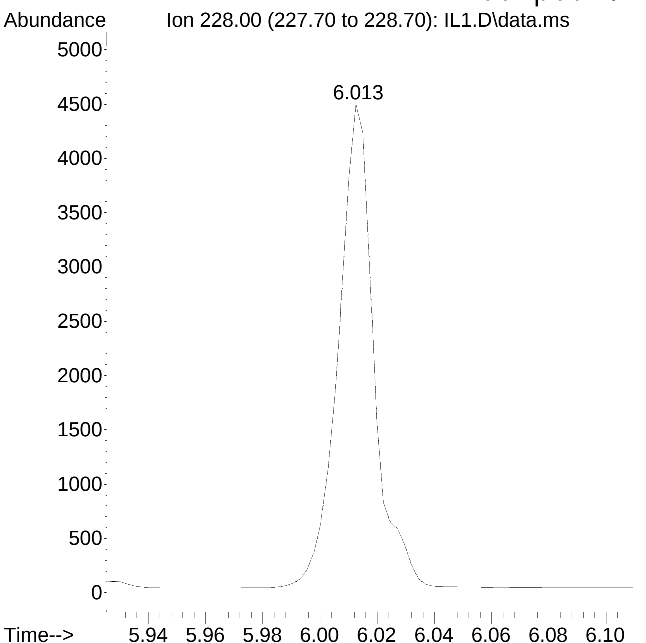
Manual Peak Response = 3666 M1

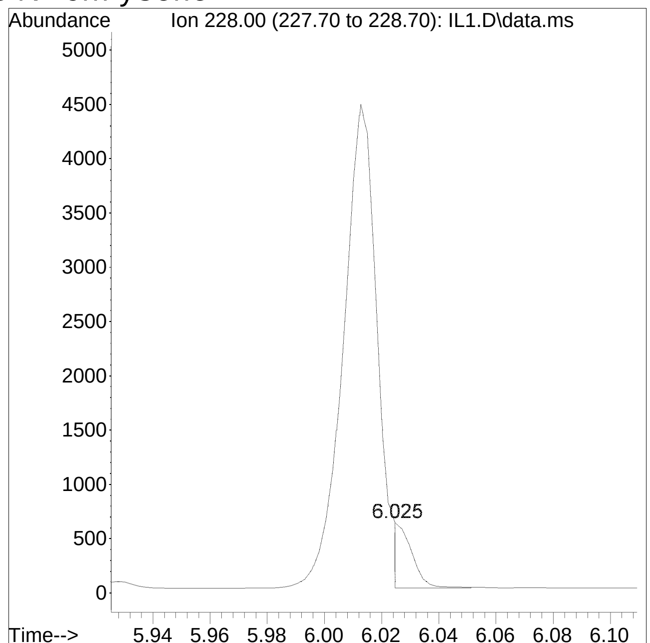
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

# Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL1.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:57 am Instrument : SV120
Sample : IL1,32,,1.0ng/mL lot# 1089Quant Date : 12/2/2024 11:36 am

Compound #34: Chrysene



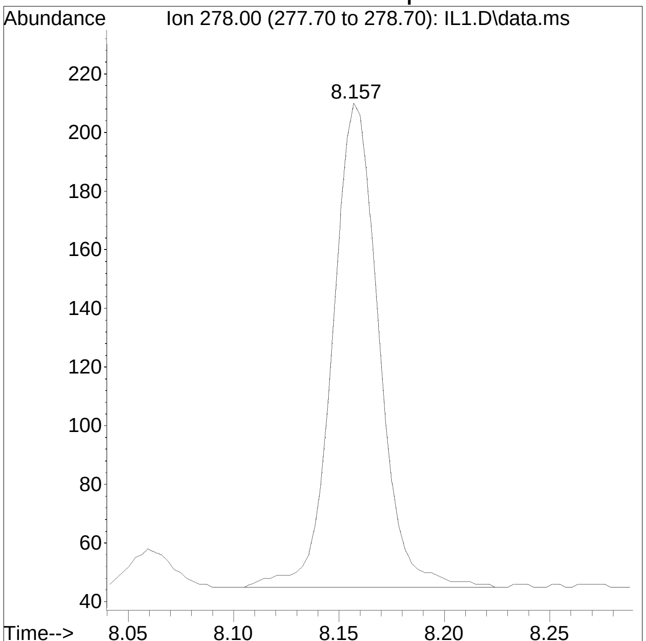



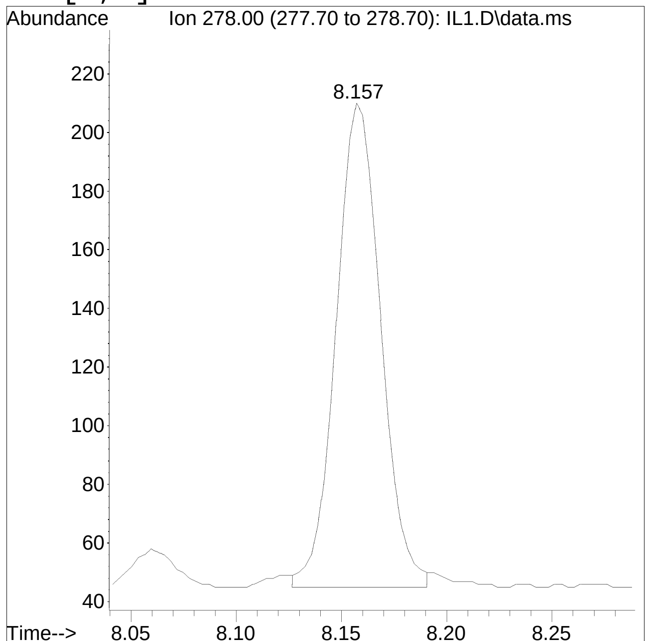

Original Peak Response = 3863 Manual Peak Response = 194 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL1.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:57 am Instrument : SV120
Sample : IL1,32,,1.0ng/mL lot# 1089Quant Date : 12/2/2024 11:36 am

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 251 Manual Peak Response = 243 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : ICV.D
Acq On : 05 Nov 2024 10:13 am
Operator : SV120:mrg
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1993471
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 11:35:07 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | i | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 77 | 0.00 |
| 2 | s | 2-Fluorophenol | 1.177 | 1.153 | 2.0 | 76 | -0.01 |
| 3 | s | Phenol-d6 | 1.447 | 1.394 | 3.7 | 74 | 0.00 |
| 4 | T | Bis(2-chloroethyl)ether | *1000.000 | 910.140 | 9.0 | 73 | 0.00 |
| 5 | T | n-nitrosodi-n-propylamine | 0.873 | 0.801 | 8.2 | 71 | 0.00 |
| 6 | t | Hexachloroethane | 0.524 | 0.487 | 7.1 | 72 | 0.00 |
| 7 | s | Nitrobenzene-d5 | 1.277 | 1.200 | 6.0 | 72 | 0.00 |
| 8 | i | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 76 | 0.00 |
| 9 | t | Naphthalene | 1.000 | 0.900 | 10.0 | 73 | 0.00 |
| 10 | t | Hexachlorobutadiene | 0.189 | 0.174 | 7.9 | 73 | 0.00 |
| 11 | t | 2-Methylnaphthalene | 0.694 | 0.649 | 6.5 | 74 | 0.00 |
| 12 | t | 1-Methylnaphthalene | 0.639 | 0.592 | 7.4 | 74 | 0.00 |
| 13 | s | 2-Fluorobiphenyl | 0.806 | 0.732 | 9.2 | 75 | 0.00 |
| 14 | t | 2-Chloronaphthalene | 0.689 | 0.618 | 10.3 | 73 | 0.00 |
| 15 | t | 2,6-Dinitrotoluene | 0.156 | 0.143 | 8.3 | 72 | 0.00 |
| 16 | t | Acenaphthylene | 0.994 | 0.944 | 5.0 | 74 | 0.00 |
| 17 | i | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 78 | 0.00 |
| 18 | t | Acenaphthene | 1.207 | 1.087 | 9.9 | 74 | 0.00 |
| 19 | t | 2,4-Dinitrotoluene | 0.336 | 0.330 | 1.8 | 73 | 0.00 |
| 20 | t | Fluorene | 1.306 | 1.199 | 8.2 | 74 | 0.00 |
| 21 | s | 2,4,6-Tribromophenol | 0.159 | 0.169 | -6.3 | 79 | 0.00 |
| 22 | i | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 81 | 0.00 |
| 23 | T | 4,6-Dinitro-o-cresol | *1000.000 | 800.208 | 20.0 | 69 | 0.00 |
| 24 | t | Hexachlorobenzene | 0.211 | 0.190 | 10.0 | 76 | 0.00 |
| 25 | t | Pentachlorophenol | *1000.000 | 941.664 | 5.8 | 78 | 0.00 |
| 26 | t | Phenanthrene | 0.953 | 0.914 | 4.1 | 77 | 0.00 |
| 27 | t | Anthracene | 0.986 | 0.930 | 5.7 | 77 | 0.00 |
| 28 | t | Fluoranthene | 1.098 | 1.040 | 5.3 | 81 | 0.00 |
| 29 | t | Pyrene | 1.132 | 1.102 | 2.7 | 83 | 0.00 |
| 30 | s | 4-Terphenyl-d14 | 0.727 | 0.708 | 2.6 | 83 | 0.00 |
| 31 | i | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 32 | t | Benzo[a]anthracene | *1000.000 | 931.400 | 6.9 | 85 | 0.00 |
| 33 | t | 3,3'-Dichlorobenzidine | 0.432 | 0.452 | -4.6 | 91 | 0.00 |
| 34 | t | Chrysene | 1.059 | 1.093 | -3.2 | 86 | 0.00 |
| 35 | T | Bis(2-ethylhexyl)phthalate | 0.708 | 0.678 | 4.2 | 84 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : ICV.D
Acq On : 05 Nov 2024 10:13 am
Operator : SV120:mrg
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1993471
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 11:35:07 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 36 | i | Perylene-d12 | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 37 | t | Benzo[b]fluoranthene | 1.214 | 1.125 | 7.3 | 91 | 0.00 |
| 38 | t | Benzo[k]fluoranthene | 1.091 | 1.042 | 4.5 | 87 | 0.00 |
| 39 | t | Benzo[a]pyrene | 0.994 | 0.982 | 1.2 | 91 | 0.00 |
| 40 | t | Indeno[1,2,3-cd]pyrene | 1.017 | 0.997 | 2.0 | 91 | 0.00 |
| 41 | t | Dibenzo[a,h]anthracene | 0.955 | 0.944 | 1.2 | 93 | 0.00 |
| 42 | t | Benzo[g,h,i]perylene | 0.987 | 0.959 | 2.8 | 91 | 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\sv120\2024\241105RVTical\
  Data File : ICV.D
  Acq On    : 05 Nov 2024  10:13 am
  Operator  : SV120:mrg
  Sample    : CQICV,32,,1000.0ng/mL lot #10884
  Misc      : WG1993471
  ALS Vial  : 11   Sample Multiplier: 1

  Quant Time: Dec 02 11:35:07 2024
  Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
  Quant Title  : Semivolatiles by GC/MS by modified 8270
  QLast Update : Mon Dec 02 11:36:17 2024
  Response via : Initial Calibration

  CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
  Sub List     : Default - All compounds listed

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
   --------------------------------------------------------------------------
   Internal Standards
   1) 1,4-Dichlorobenzene-d4      2.047  152    206472   4000.000 ng/ml    0.00
     Standard Area 1 = 269340                Recovery   =   76.66%
   8) Naphthalene-d8              2.691  136    804844   4000.000 ng/ml    0.00
     Standard Area 1 = 1055011                Recovery   =   76.29%
  17) Acenaphthene-d10            3.658  164    476077   4000.000 ng/ml    0.00
     Standard Area 1 = 611711                Recovery   =   77.83%
  22) Phenanthrene-d10            4.494  188    943391   4000.000 ng/ml    0.00
     Standard Area 1 = 1165771                Recovery   =   80.92%
  31) Chrysene-d12                6.016  240    876754   4000.000 ng/ml    0.00
     Standard Area 1 = 980774                Recovery   =   89.39%
  36) Perylene-d12                7.073  264    908325   4000.000 ng/ml    0.00
     Standard Area 1 = 961303                Recovery   =   94.49%

   System Monitoring Compounds
   2) 2-Fluorophenol              1.491  112     59529   979.648 ng/ml  -0.01
     Spiked Amount   2000.000   Range  15 - 110    Recovery   =   48.98%
   3) Phenol-d6                   1.873   99     71980   963.903 ng/ml   0.00
     Spiked Amount   2000.000   Range  15 - 110    Recovery   =   48.20%
   7) Nitrobenzene-d5             2.319   82     61943   939.610 ng/ml   0.00
     Spiked Amount   1000.000   Range  30 - 130    Recovery   =   93.96%
  13) 2-Fluorobiphenyl            3.284  172    147269   907.830 ng/ml   0.00
     Spiked Amount   1000.000   Range  30 - 130    Recovery   =   90.78%
  21) 2,4,6-Tribromophenol        4.099  330     20136   1062.496 ng/ml   0.00
     Spiked Amount   2000.000   Range  15 - 110    Recovery   =   53.12%
  30) 4-Terphenyl-d14             5.407  244    167094   974.085 ng/ml   0.00
     Spiked Amount   2000.000   Range  30 - 130    Recovery   =   48.70%

   Target Compounds                                                 Qvalue
   4) Bis(2-chloroethyl)ether     1.922   93      57941    910.140 ng/ml     99
   5) n-nitrosodi-n-propylamine   2.246   70      41367    918.502 ng/ml    100
   6) Hexachloroethane            2.293  117      25118    929.244 ng/ml    100
   9) Naphthalene                 2.701  128     181157    900.410 ng/ml    100
  10) Hexachlorobutadiene         2.775  225      35082    920.241 ng/ml    100
  11) 2-Methylnaphthalene         3.079  142     130487    934.188 ng/ml    100
  12) 1-Methylnaphthalene         3.131  142     119040    926.544 ng/ml    100
  14) 2-Chloronaphthalene         3.345  162     124383    897.047 ng/ml    100
  15) 2,6-Dinitrotoluene          3.546  165      28850    919.233 ng/ml     97
  16) Acenaphthylene              3.575  152     189901    949.907 ng/ml    100
  18) Acenaphthene                3.674  153     129351    900.147 ng/ml    100
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : ICV.D
Acq On : 05 Nov 2024 10:13 am
Operator : SV120:mrg
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1993471
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 11:35:07 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 19) 2,4-Dinitrotoluene | 3.772 | 165 | 39315 | 982.638 | ng/ml | 97 |
| 20) Fluorene | 3.961 | 166 | 142652 | 917.438 | ng/ml | 99 |
| 23) 4,6-Dinitro-o-cresol | 4.000 | 198 | 22203 | 800.208 | ng/ml | 99 |
| 24) Hexachlorobenzene | 4.280 | 284 | 44697 | 896.959 | ng/ml | 100 |
| 25) Pentachlorophenol | 4.391 | 266 | 25675 | 941.664 | ng/ml | 100 |
| 26) Phenanthrene | 4.505 | 178 | 215532 | 958.717 | ng/ml | 100 |
| 27) Anthracene | 4.532 | 178 | 219278 | 942.743 | ng/ml | 100 |
| 28) Fluoranthene | 5.178 | 202 | 245243 | 947.125 | ng/ml | 100 |
| 29) Pyrene | 5.307 | 202 | 259868 | 973.278 | ng/ml | 99 |
| 32) Benzo[a]anthracene | 6.006 | 228 | 251011 | 931.400 | ng/ml | 99 |
| 33) 3,3'-Dichlorobenzidine | 6.001 | 252 | 99042 | 1045.050 | ng/ml | 100 |
| 34) Chrysene | 6.028 | 228 | 239672 | 1032.570 | ng/ml | 100 |
| 35) Bis(2-ethylhexyl)phtha... | 6.049 | 149 | 148592 | 957.745 | ng/ml | 100 |
| 37) Benzo[b]fluoranthene | 6.740 | 252 | 255448 | 926.828 | ng/ml | 100 |
| 38) Benzo[k]fluoranthene | 6.765 | 252 | 236705 | 955.330 | ng/ml | 100 |
| 39) Benzo[a]pyrene | 7.009 | 252 | 222935 | 987.522 | ng/ml | 100 |
| 40) Indeno[1,2,3-cd]pyrene | 8.131 | 276 | 226414 | 980.823 | ng/ml | 100 |
| 41) Dibenzo[a,h]anthracene | 8.168 | 278 | 214255M6 | 987.983 | ng/ml | |
| 42) Benzo[g,h,i]perylene | 8.430 | 276 | 217730 | 971.223 | ng/ml | 99 |

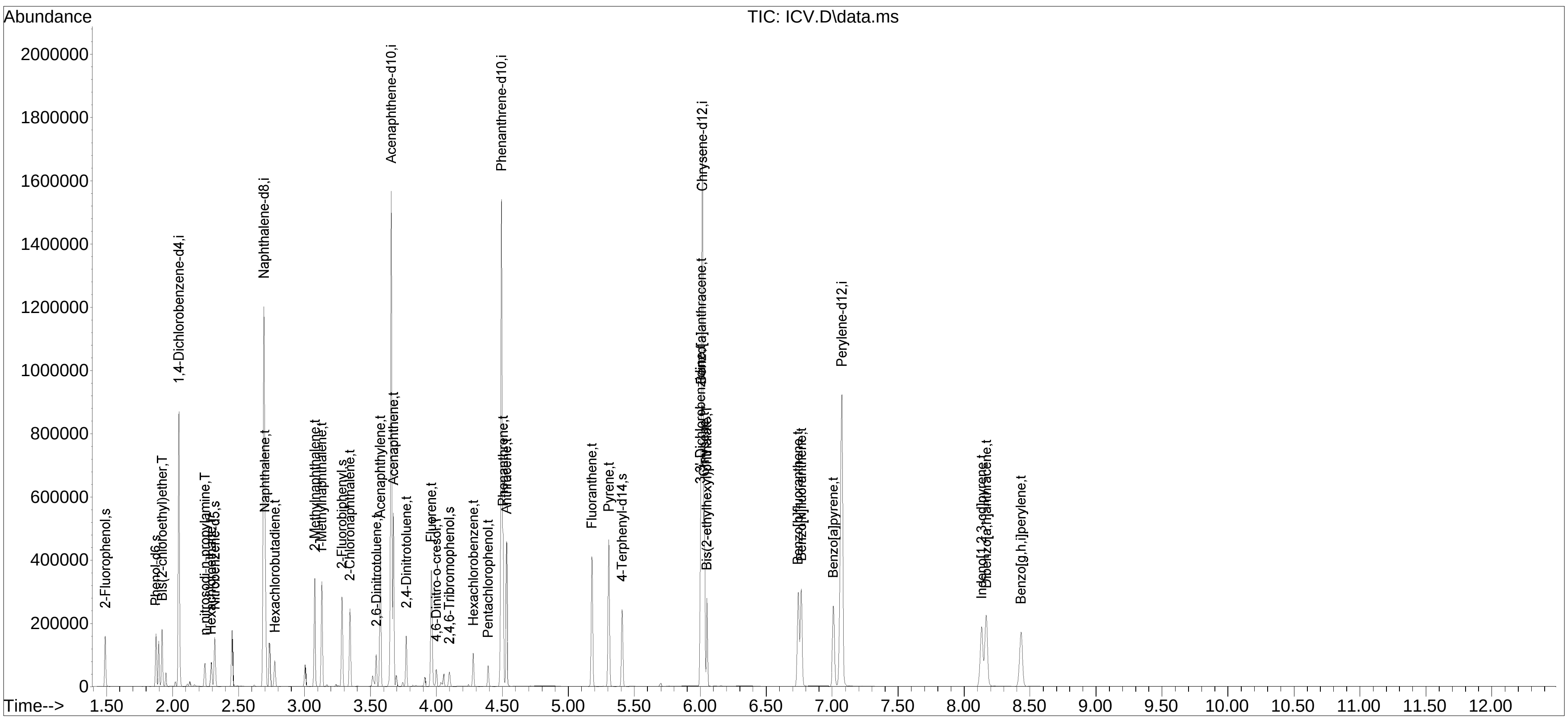
(#) = qualifier out of range (m) = manual integration (+) = signals summed

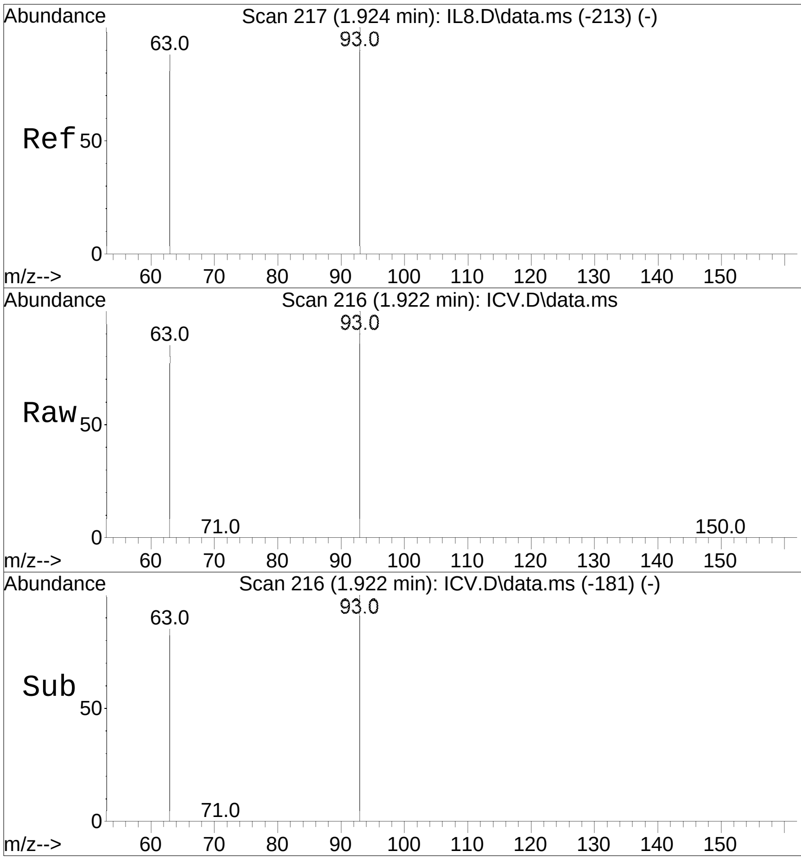
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : ICV.D
Acq On : 05 Nov 2024 10:13 am
Operator : SV120:mrg
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1993471
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 11:35:07 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed05RVTical\IL8.D•

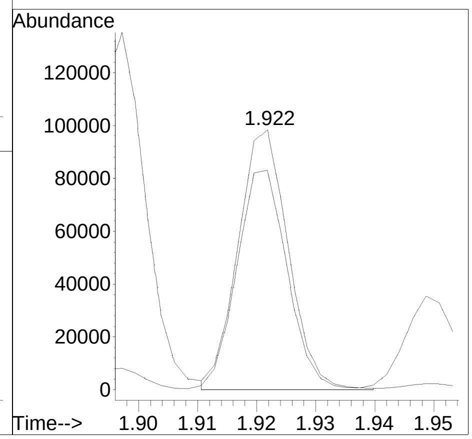


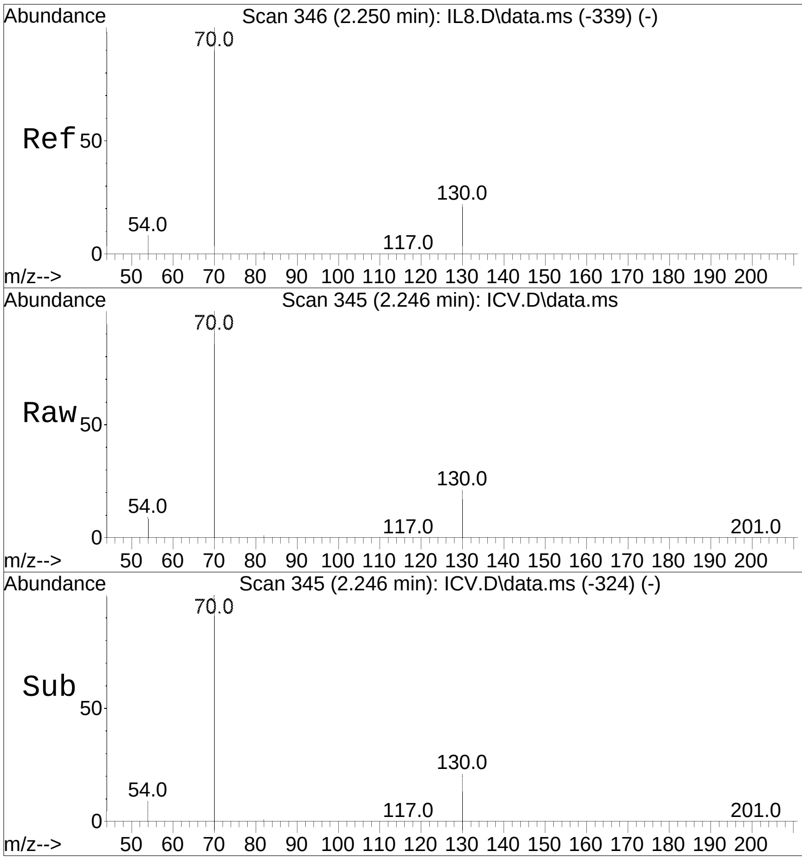



#4
Bis(2-chloroethyl)ether
Concen: 910.14 ng/ml
RT: 1.922 min Scan# 216
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion: 93 Resp: 57941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 85.4 | 68.7 | 103.1 |

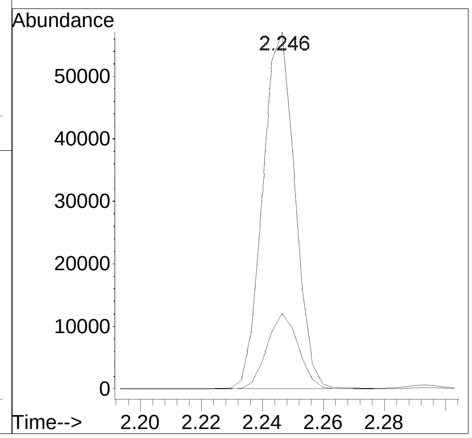


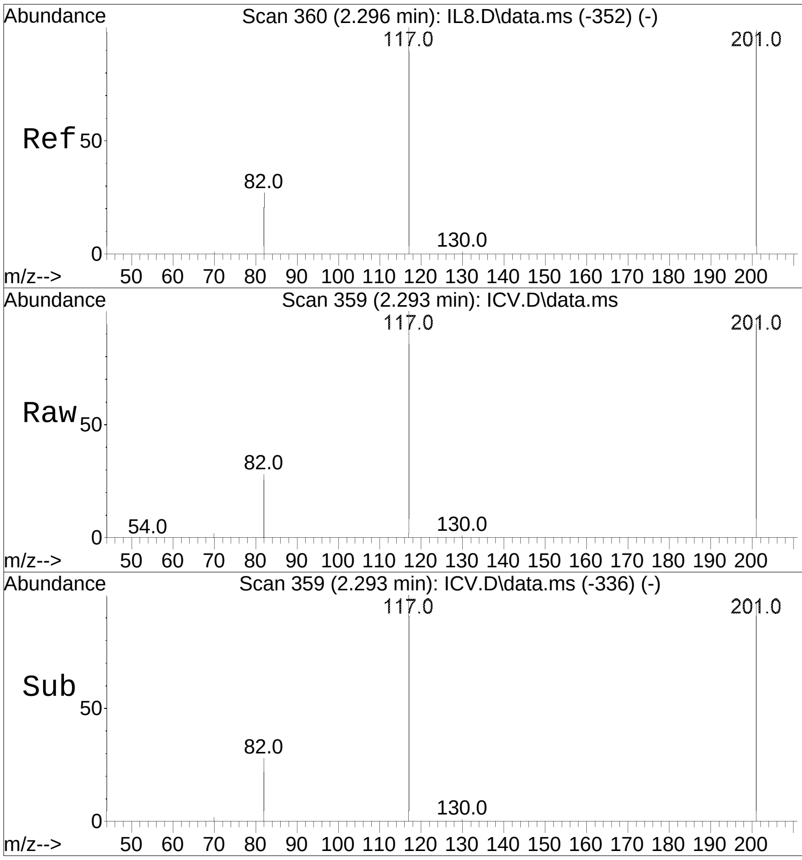



#5
n-nitrosodi-n-propylamine
Concen: 918.50 ng/ml
RT: 2.246 min Scan# 345
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion: 70 Resp: 41367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 130 | 20.5 | 16.6 | 24.8 |

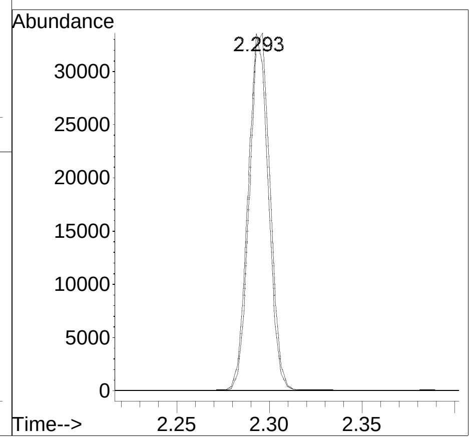


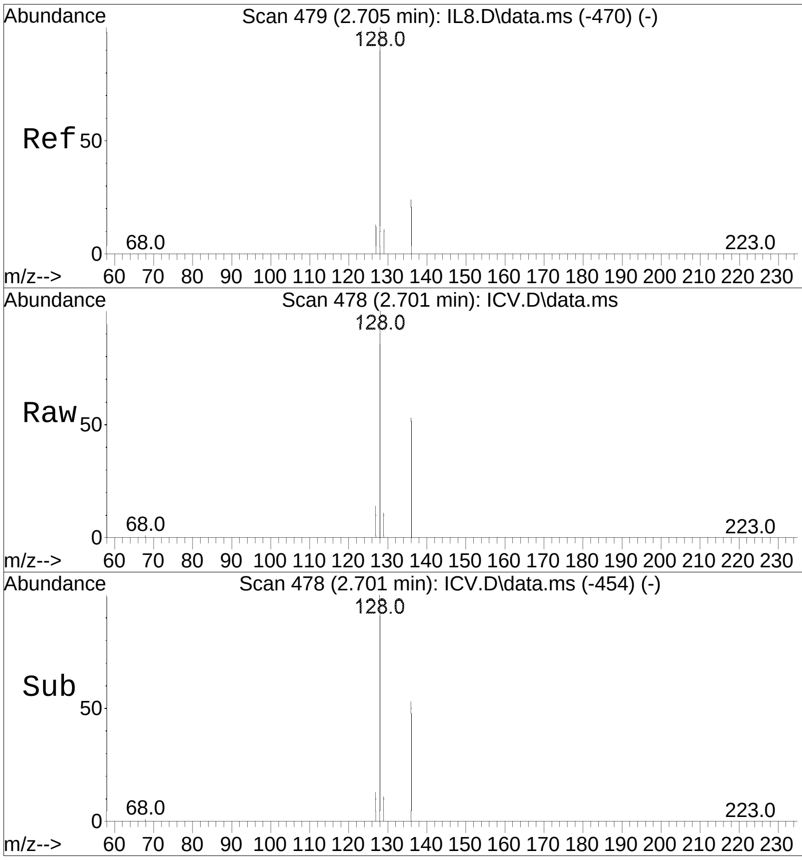



#6
Hexachloroethane
Concen: 929.24 ng/ml
RT: 2.293 min Scan# 359
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:117 Resp: 25118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 102.2 | 82.0 | 123.0 |

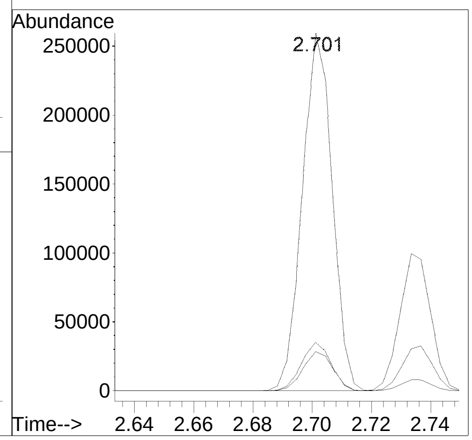


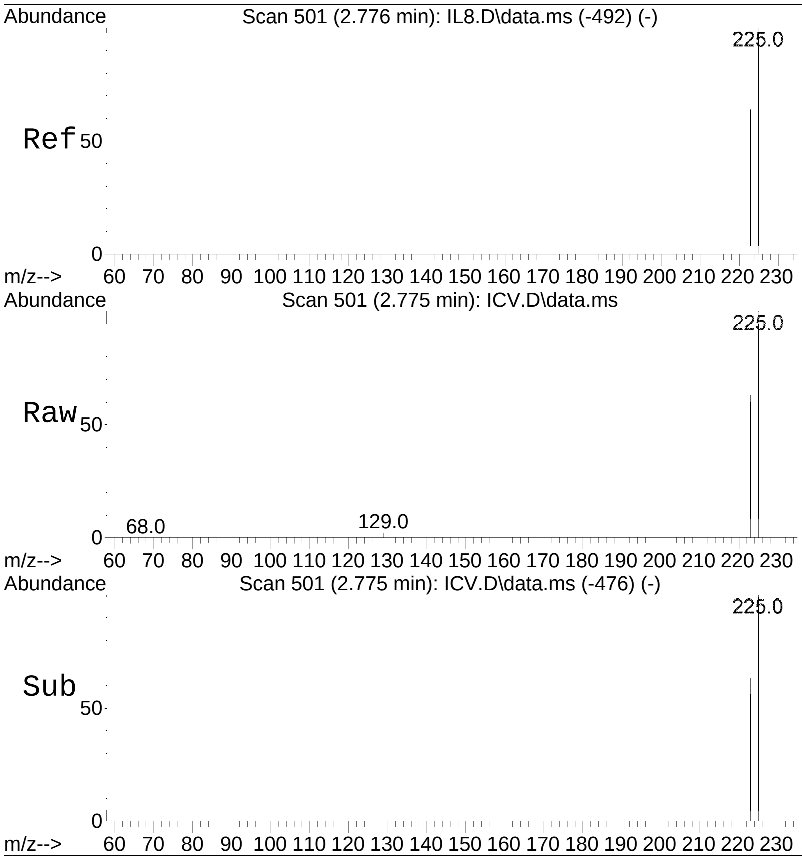



#9
Naphthalene
Concen: 900.41 ng/ml
RT: 2.701 min Scan# 478
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:128 Resp: 181157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.1 | 8.9 | 13.3 |
| 127 | 13.4 | 10.7 | 16.1 |

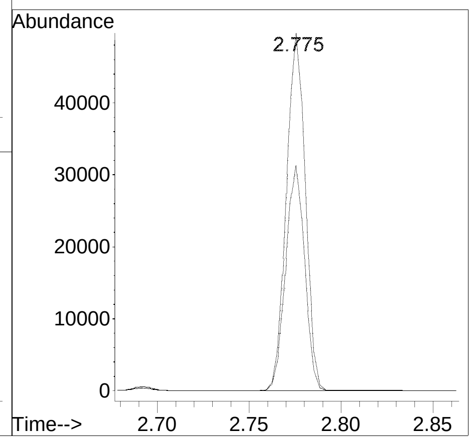


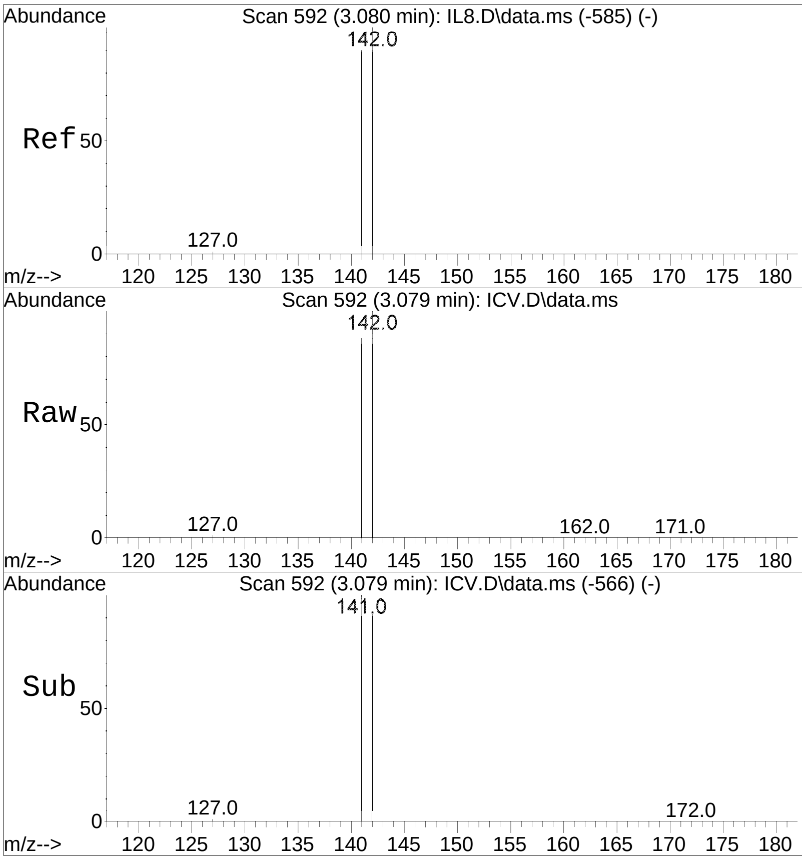



#10
Hexachlorobutadiene
Concen: 920.24 ng/ml
RT: 2.775 min Scan# 501
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:225 Resp: 35082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.9 | 50.5 | 75.7 |

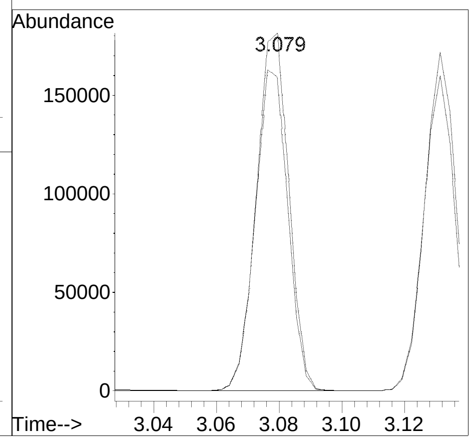


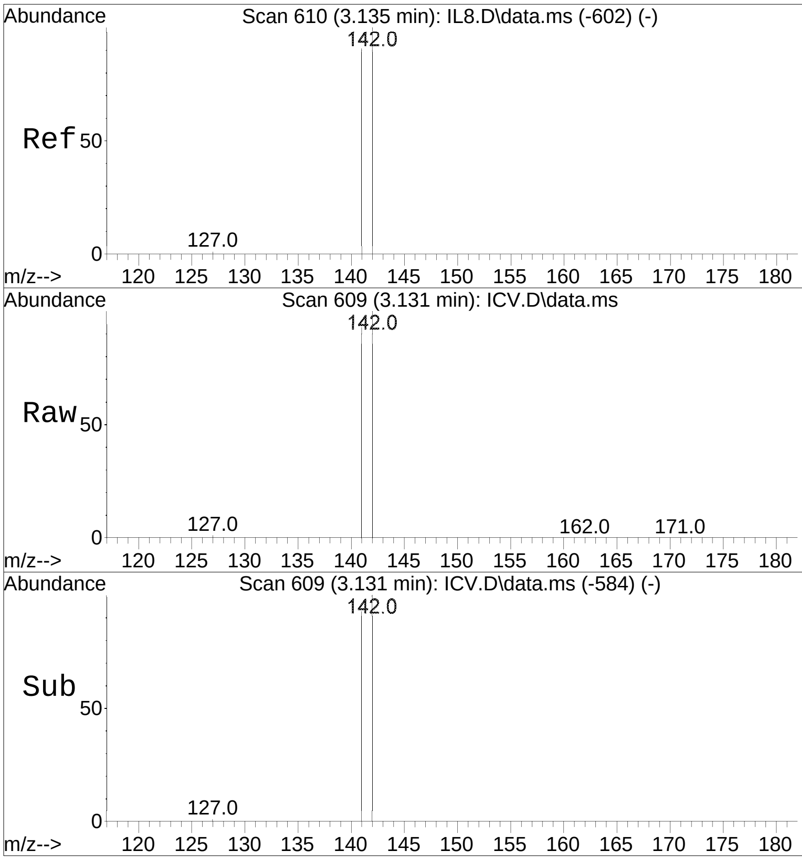



#11
2-Methylnaphthalene
Concen: 934.19 ng/ml
RT: 3.079 min Scan# 592
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:142 Resp: 130487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.1 | 72.2 | 108.2 |

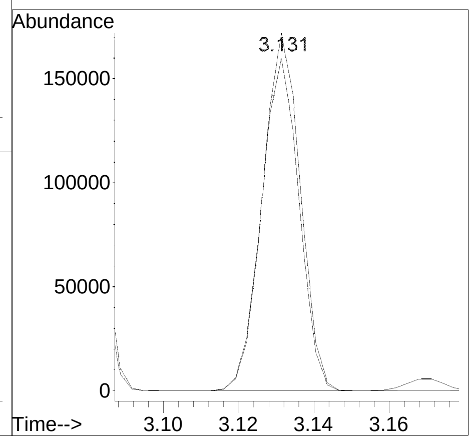


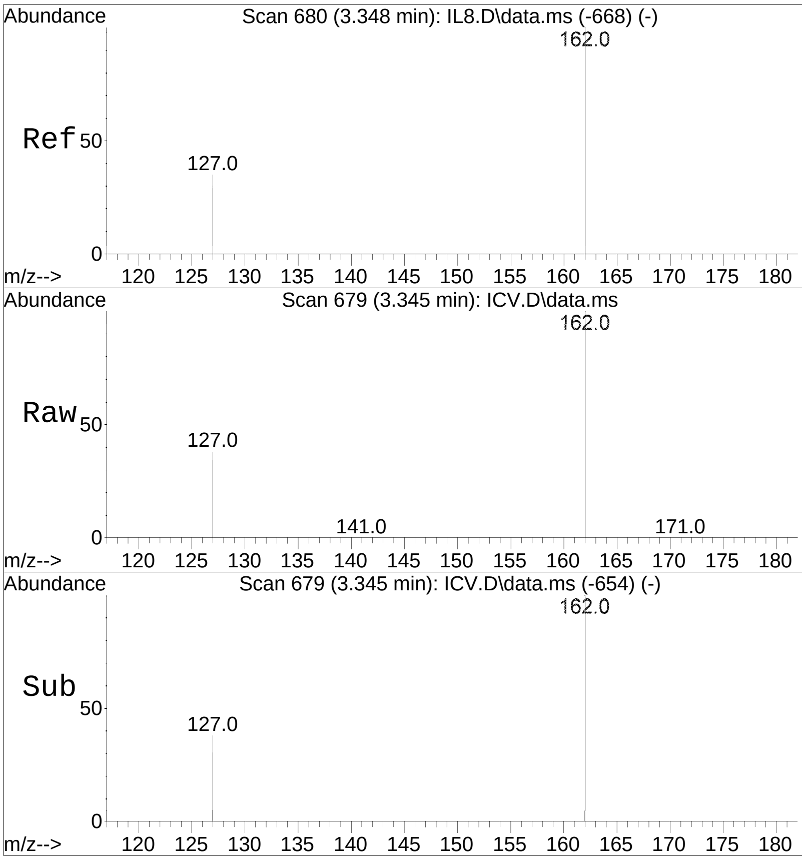



#12
1-Methylnaphthalene
Concen: 926.54 ng/ml
RT: 3.131 min Scan# 609
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:142 Resp: 119040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 93.2 | 74.6 | 112.0 |

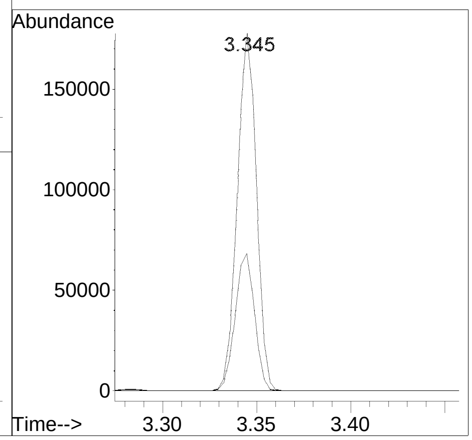


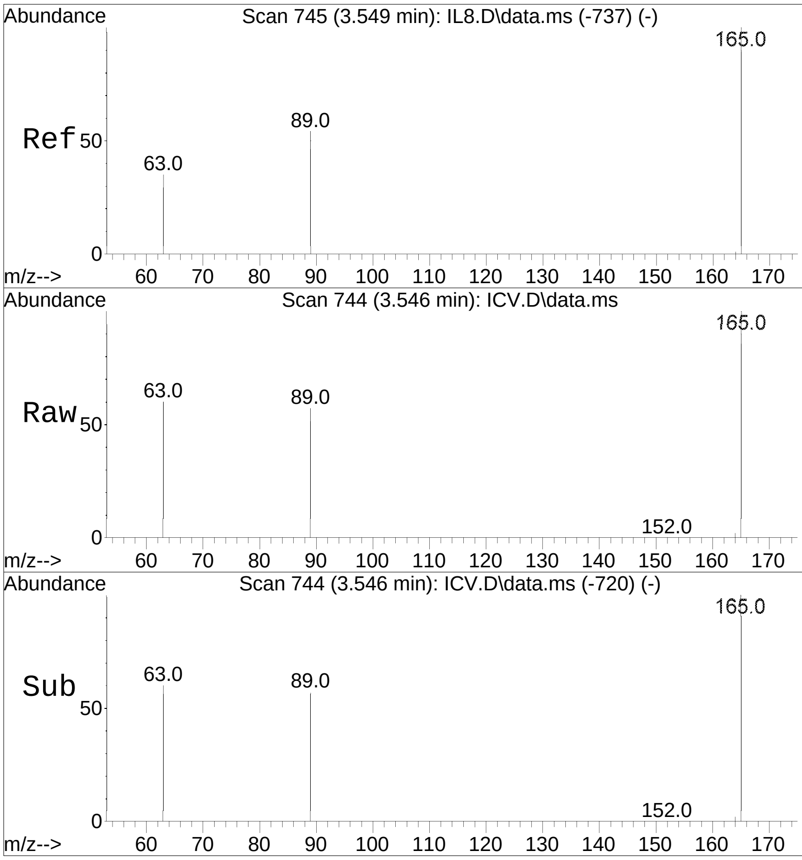



#14
2-Chloronaphthalene
Concen: 897.05 ng/ml
RT: 3.345 min Scan# 679
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:162 Resp: 124383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 38.9 | 31.0 | 46.4 |

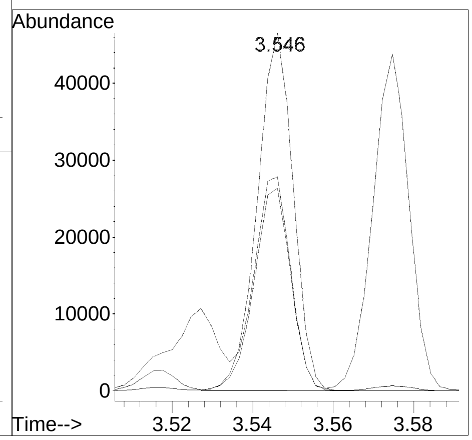


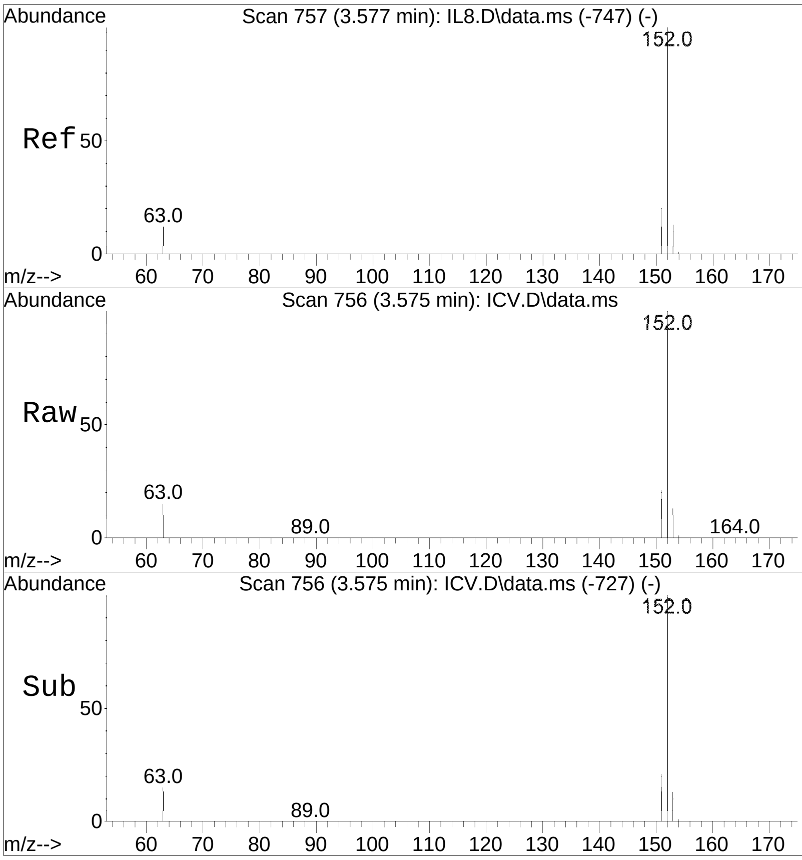



#15
2,6-Dinitrotoluene
Concen:  919.23 ng/ml
RT:   3.546 min  Scan# 744
Delta R.T.  -0.003 min
Lab File:   ICV.D
Acq: 05 Nov 2024  10:13 am

Tgt Ion:165 Resp:   28850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 58.5 | 45.8 | 68.8 |
| 63 | 60.8 | 46.3 | 69.5 |

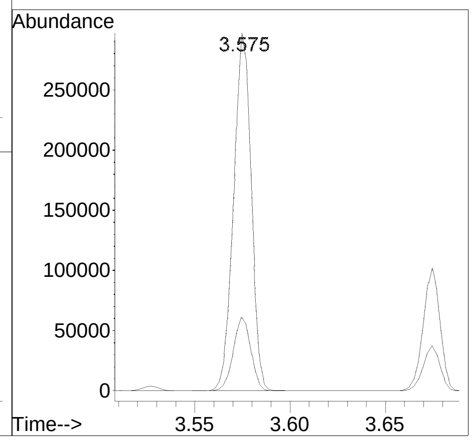


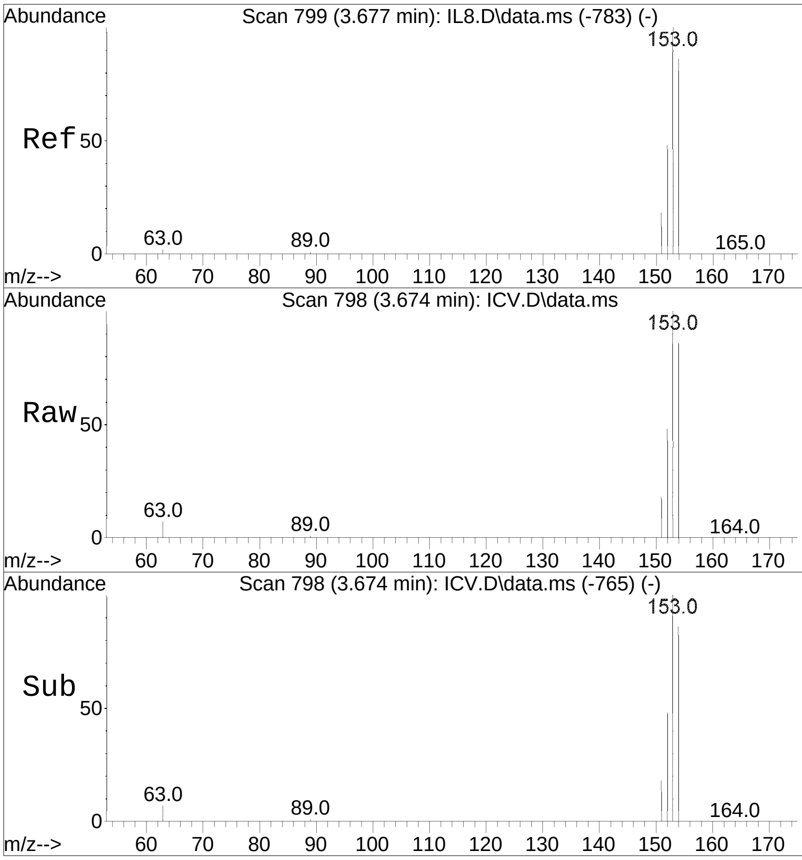



#16
Acenaphthylene
Concen: 949.91 ng/ml
RT: 3.575 min Scan# 756
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:152 Resp: 189901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.5 | 16.4 | 24.6 |

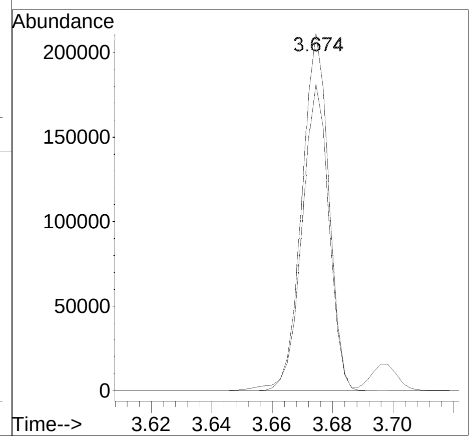


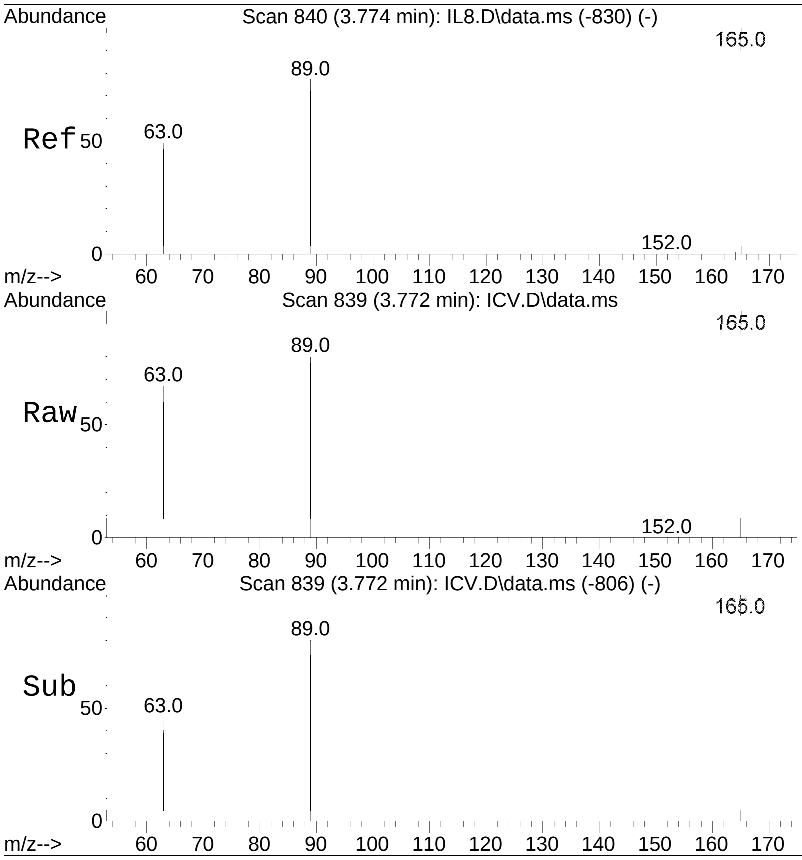



#18
Acenaphthene
Concen: 900.15 ng/ml
RT: 3.674 min Scan# 798
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:153 Resp: 129351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 153 | 100 | | |
| 154 | 87.1 | 69.8 | 104.6 |

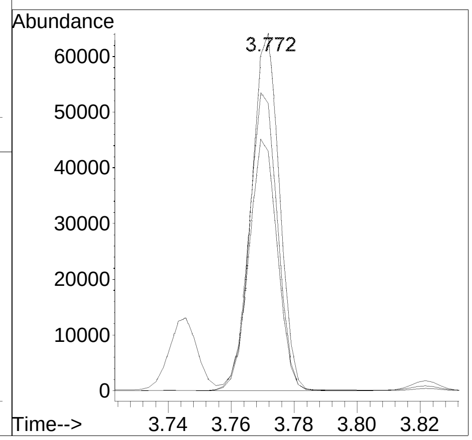


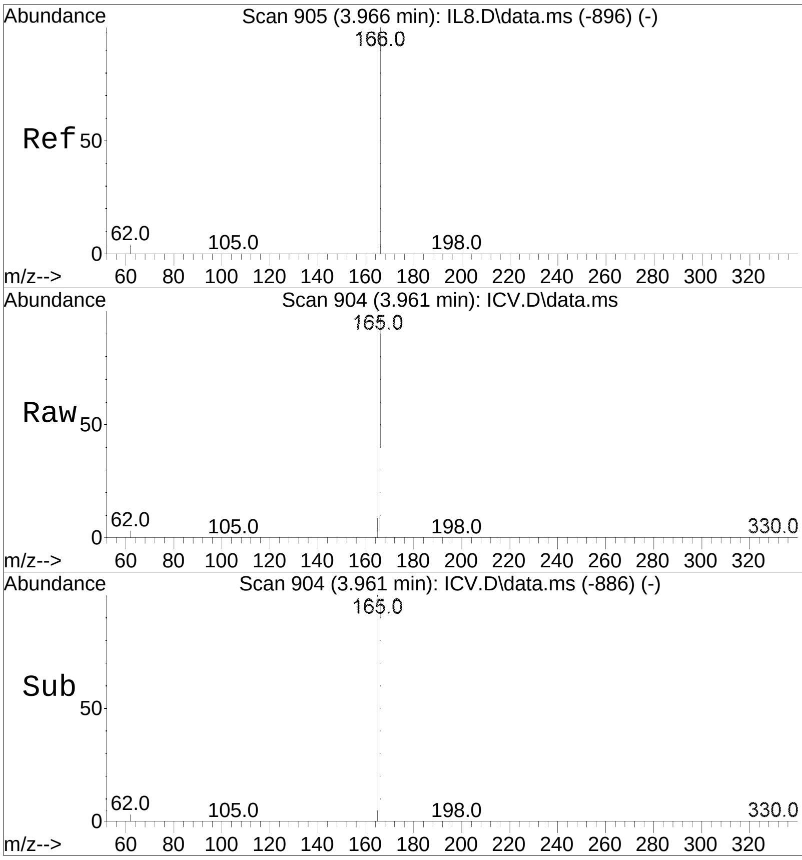



#19
2,4-Dinitrotoluene
Concen: 982.64 ng/ml
RT: 3.772 min Scan# 839
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:165 Resp: 39315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 84.5 | 65.9 | 98.9 |
| 63 | 71.8 | 55.7 | 83.5 |

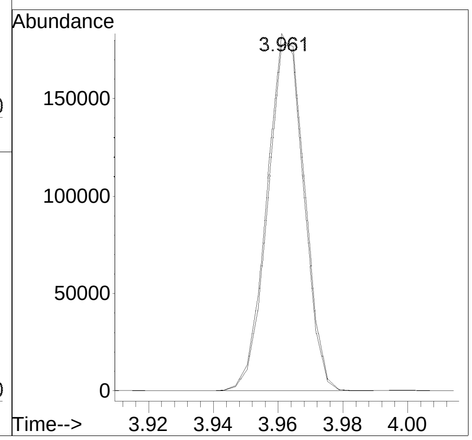


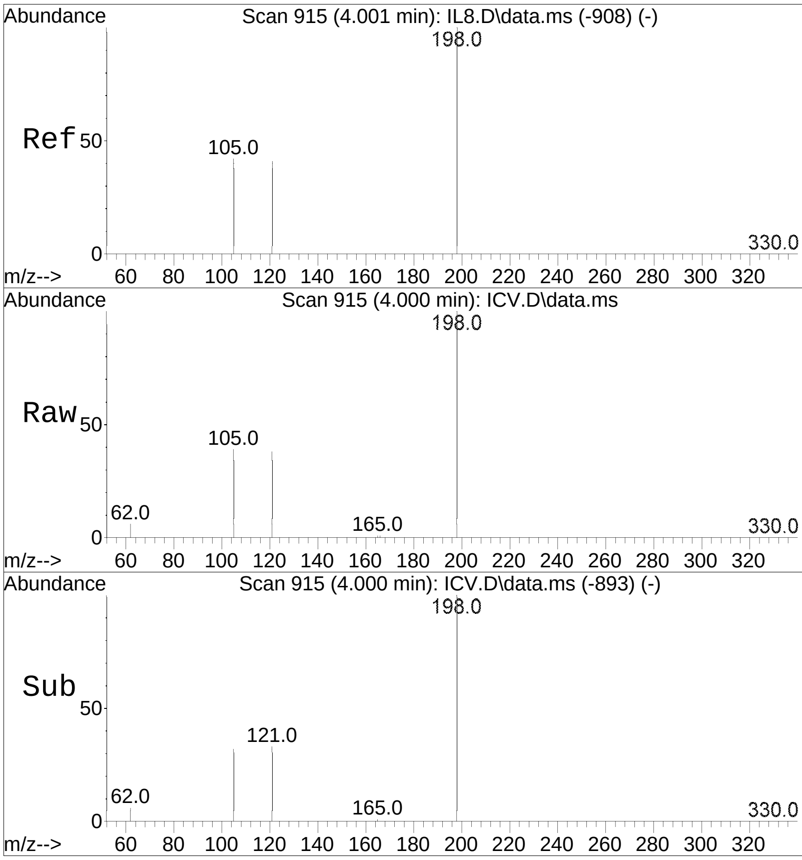



#20
Fluorene
Concen: 917.44 ng/ml
RT: 3.961 min Scan# 904
Delta R.T. -0.005 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:166 Resp: 142652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.8 | 80.1 | 120.1 |

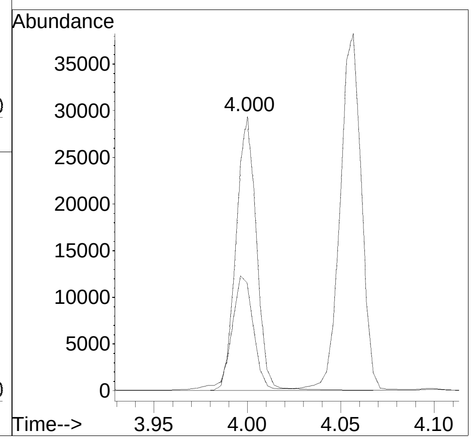


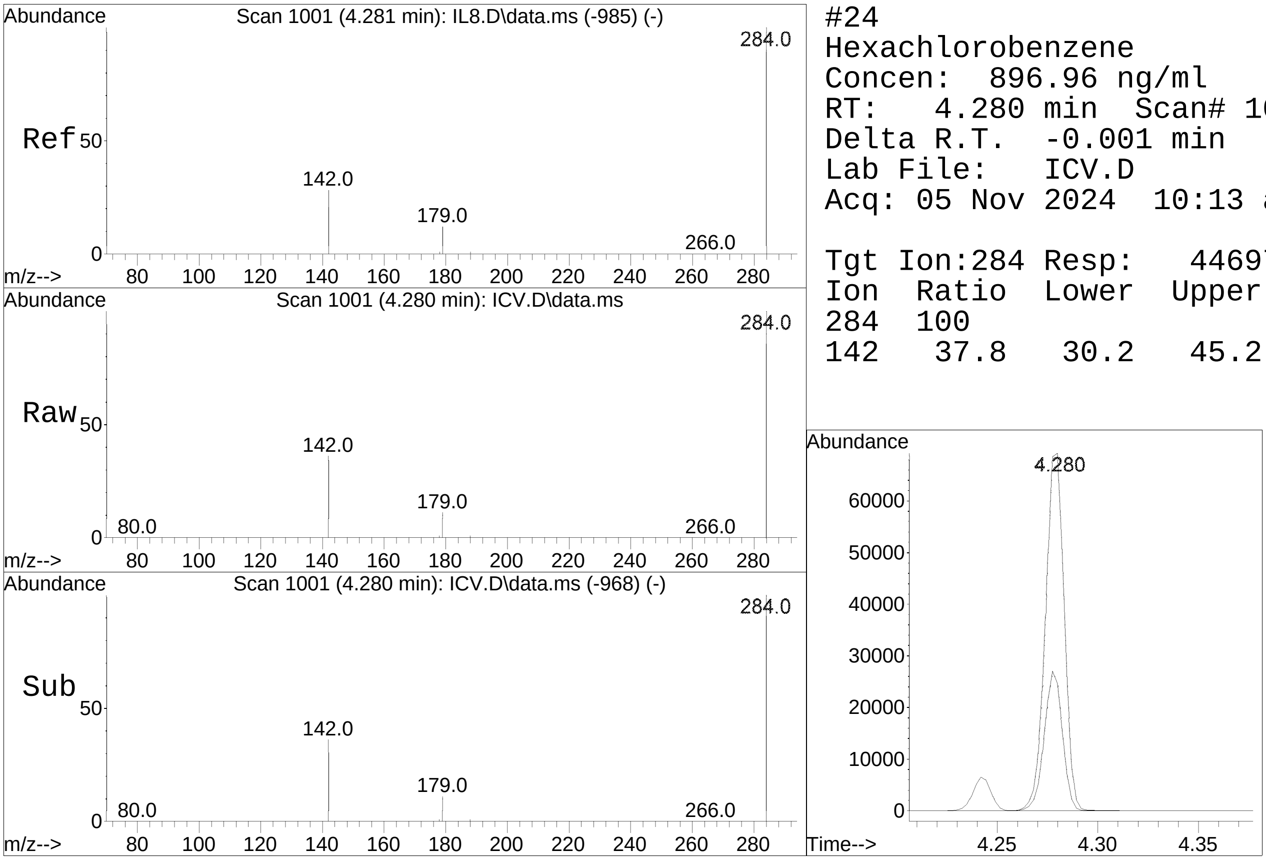



#23
4,6-Dinitro-o-cresol
Concen: 800.21 ng/ml
RT: 4.000 min Scan# 915
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:198 Resp: 22203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 105 | 44.8 | 35.4 | 53.2 |

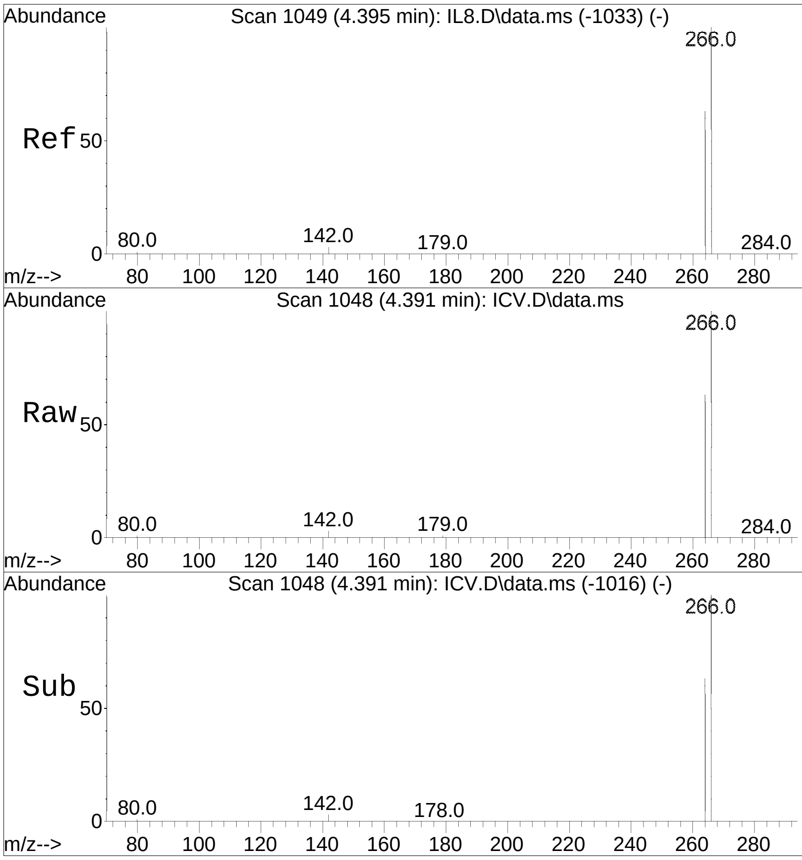





#24
Hexachlorobenzene
Concen: 896.96 ng/ml
RT: 4.280 min Scan# 1001
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:284 Resp: 44697

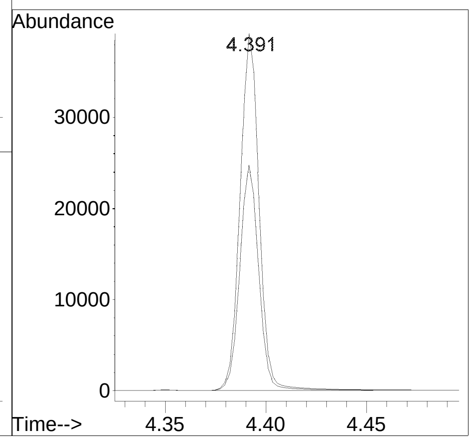
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 37.8 | 30.2 | 45.2 |

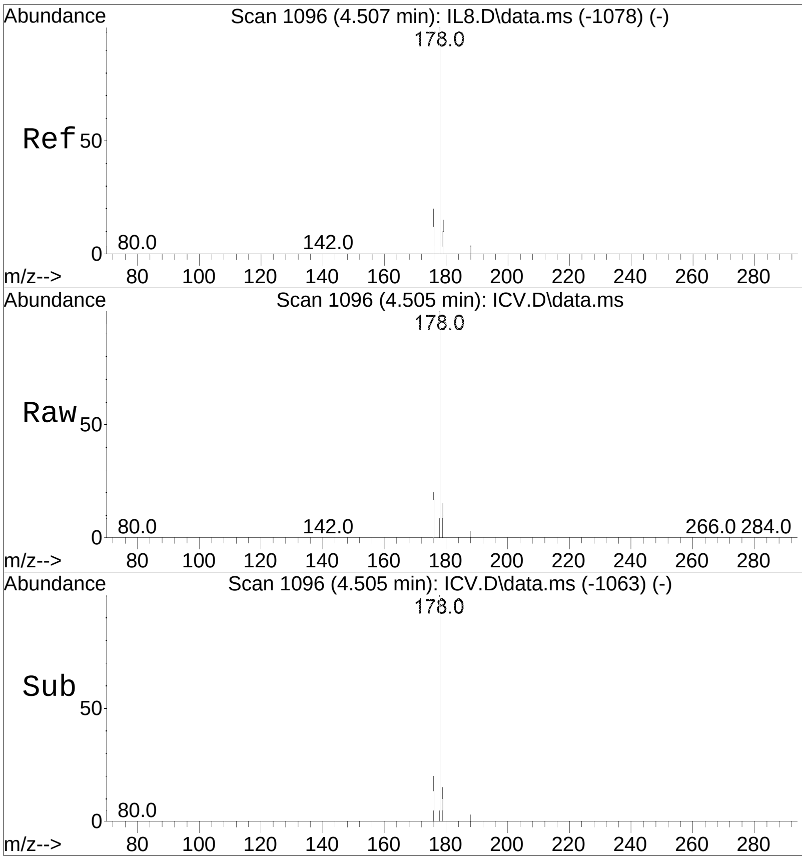



#25
Pentachlorophenol
Concen:  941.66 ng/ml
RT:    4.391 min  Scan# 1048
Delta R.T.  -0.004 min
Lab File:   ICV.D
Acq: 05 Nov 2024  10:13 am

Tgt Ion:266 Resp:   25675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.1 | 50.3 | 75.5 |

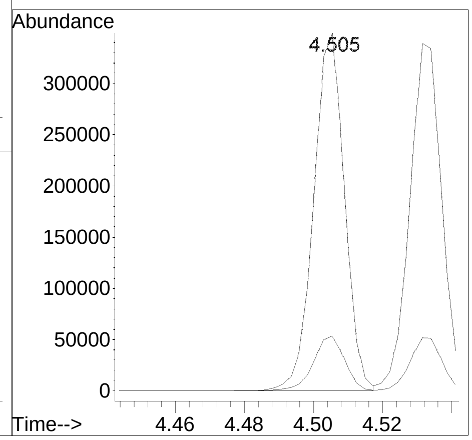


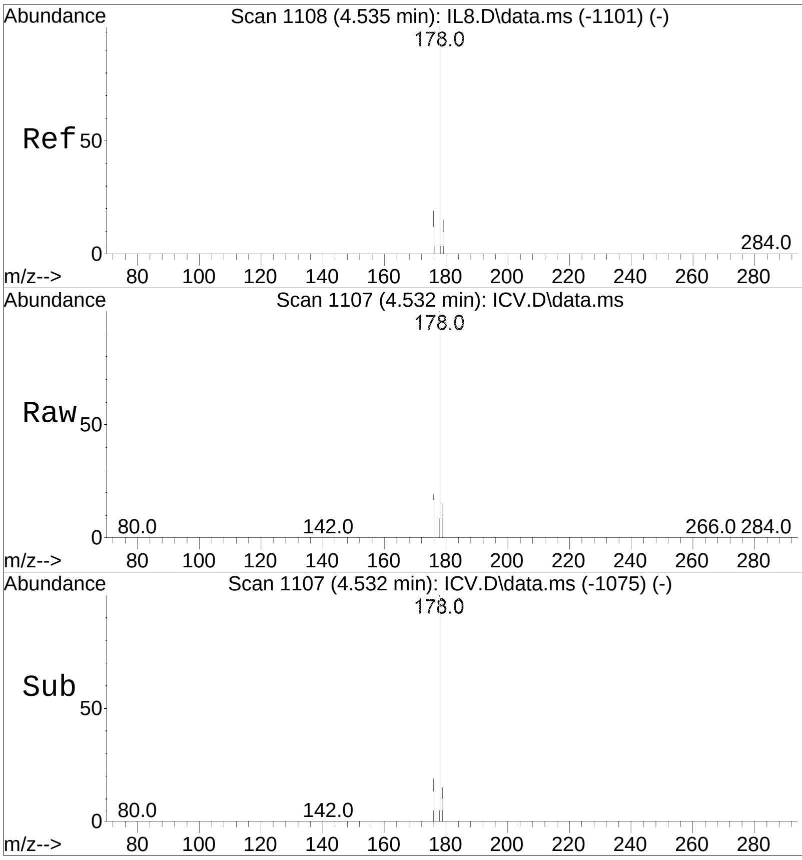



#26
Phenanthrene
Concen: 958.72 ng/ml
RT: 4.505 min Scan# 1096
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

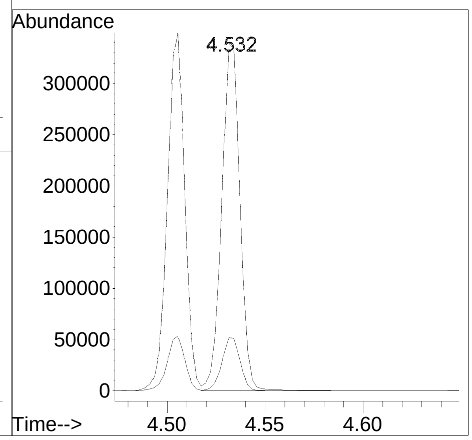
Tgt Ion:178 Resp: 215532

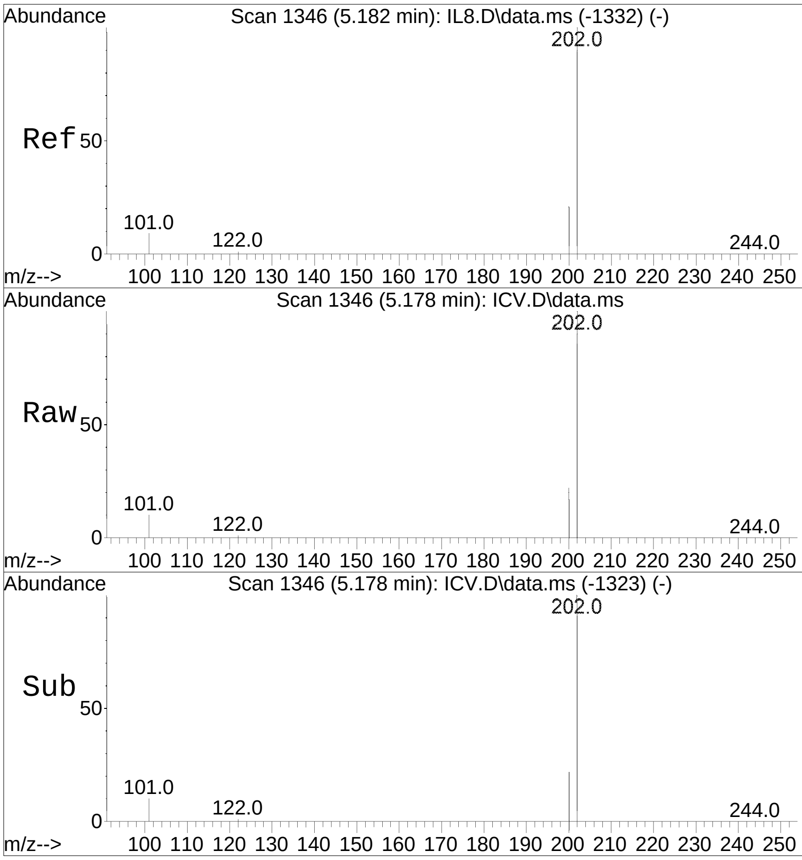
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.6 | 12.5 | 18.7 |






```
#27
Anthracene
Concen:  942.74 ng/ml
RT:    4.532 min  Scan# 1107
Delta R.T.  -0.003 min
Lab File:   ICV.D
Acq: 05 Nov 2024  10:13 am

Tgt Ion:178 Resp:  219278
Ion  Ratio  Lower  Upper
178  100
179   15.3   12.3   18.5
```

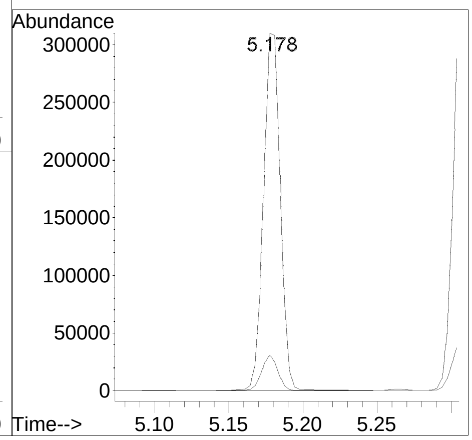


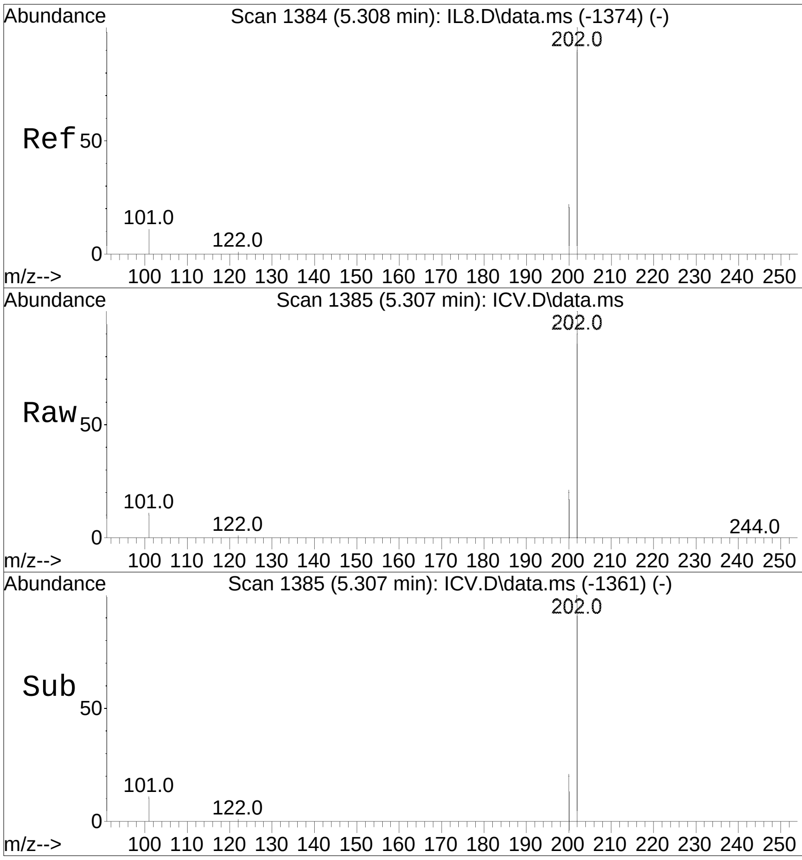



#28
Fluoranthene
Concen: 947.13 ng/ml
RT: 5.178 min Scan# 1346
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:202 Resp: 245243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.5 | 7.8 | 11.6 |

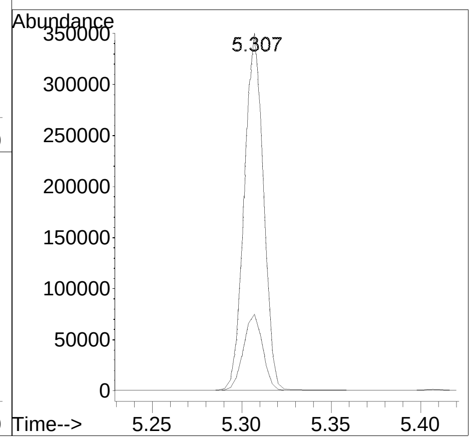


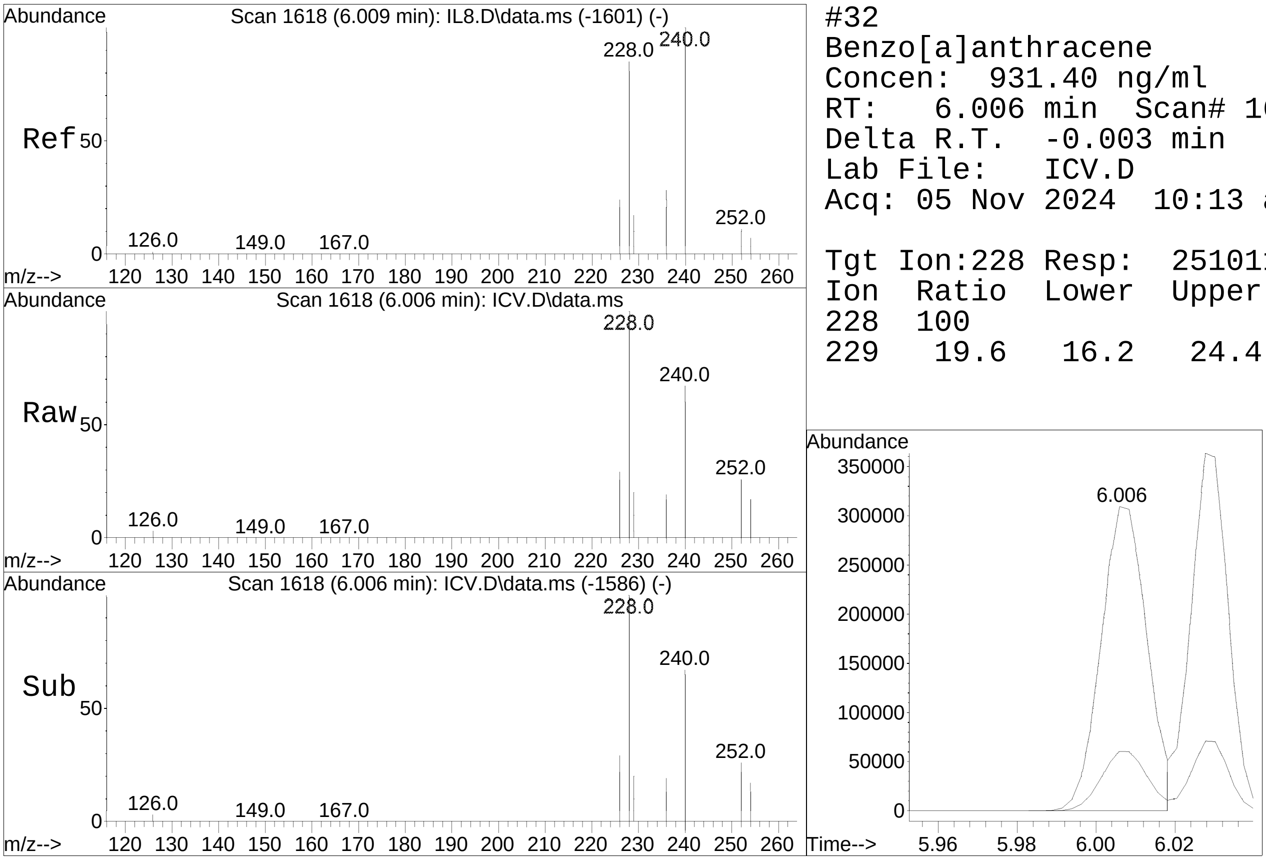



#29
Pyrene
Concen: 973.28 ng/ml
RT: 5.307 min Scan# 1385
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:202 Resp: 259868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.6 | 17.5 | 26.3 |

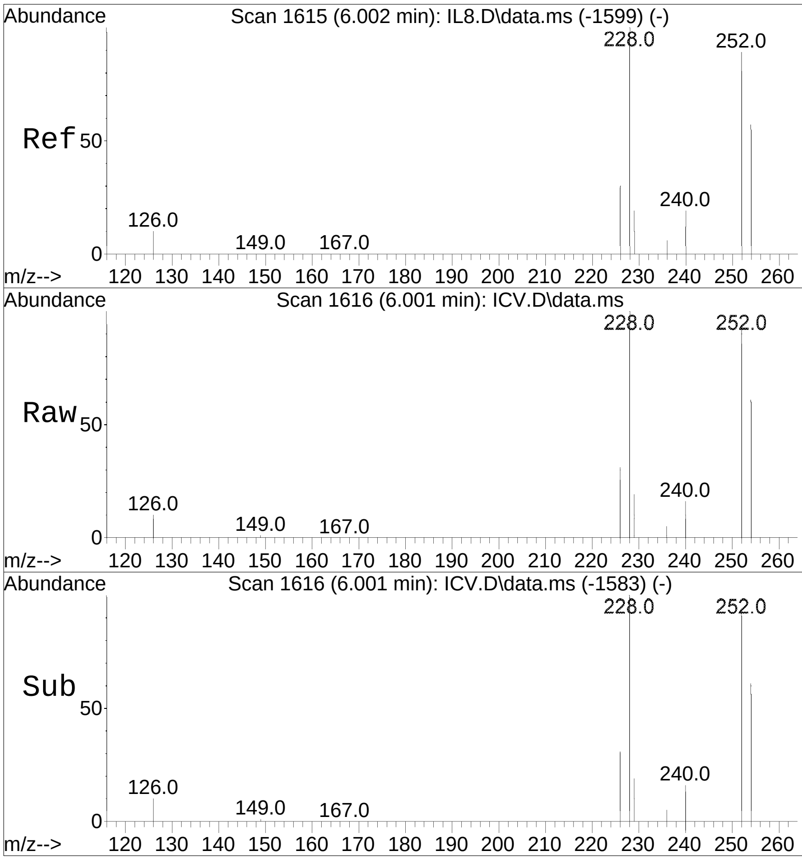





#32
Benzo[a]anthracene
Concen: 931.40 ng/ml
RT: 6.006 min Scan# 1618
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:228 Resp: 251011

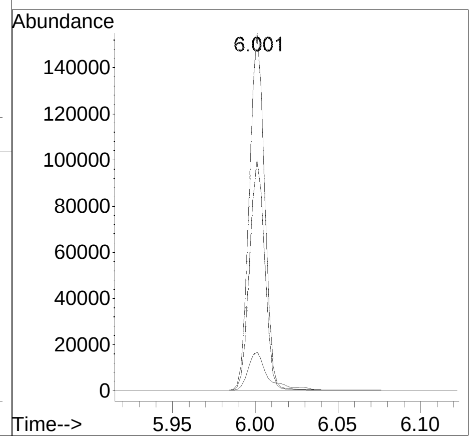
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 19.6 | 16.2 | 24.4 |

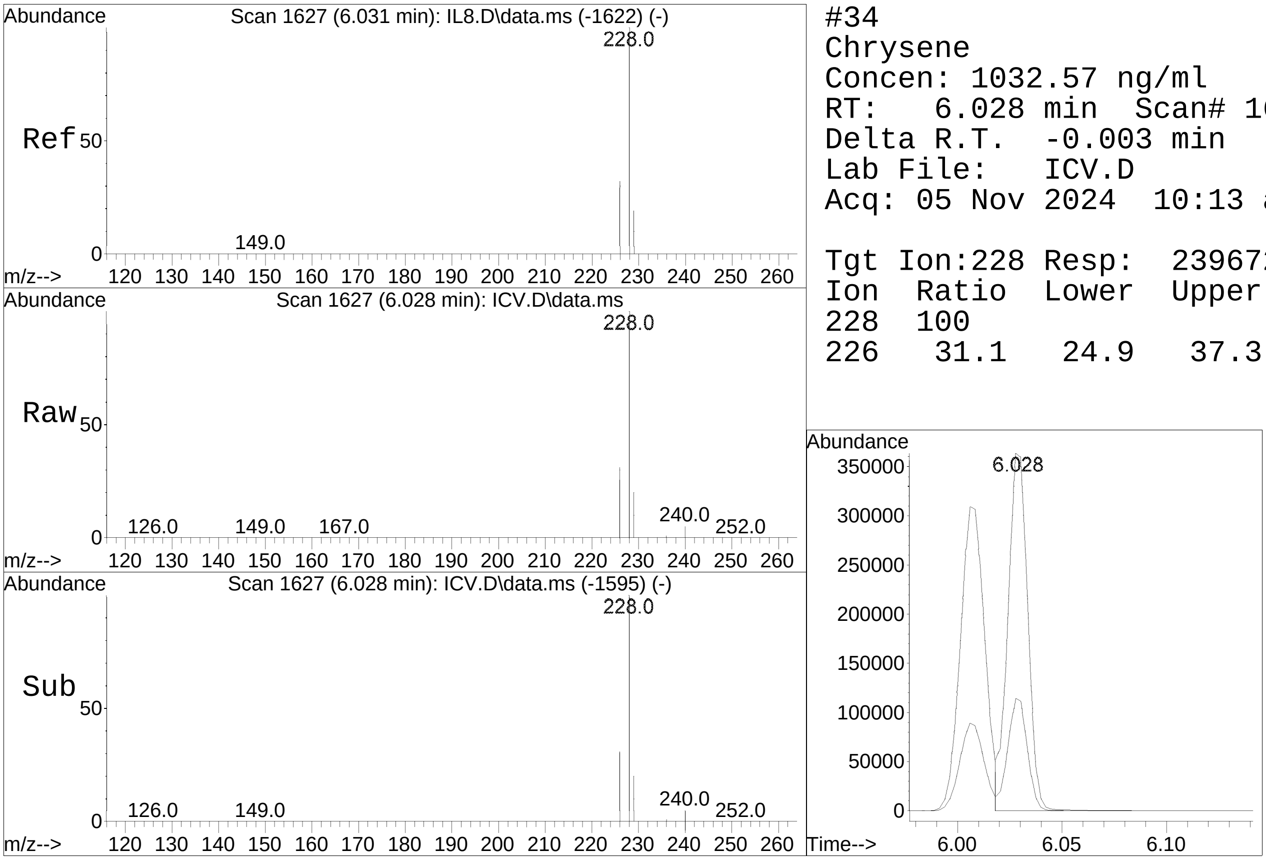



#33
3,3'-Dichlorobenzidine
Concen: 1045.05 ng/ml
RT: 6.001 min Scan# 1616
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:252 Resp: 99042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 126 | 13.3 | 10.9 | 16.3 |
| 254 | 64.4 | 51.4 | 77.2 |

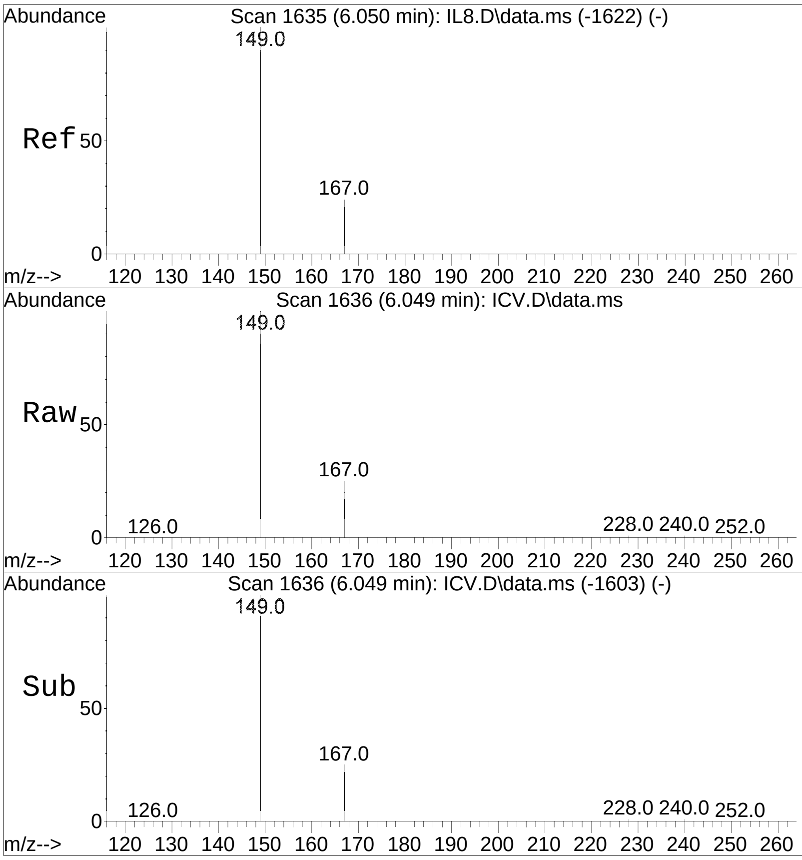





#34
Chrysene
Concen: 1032.57 ng/ml
RT: 6.028 min Scan# 1627
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:228 Resp: 239672

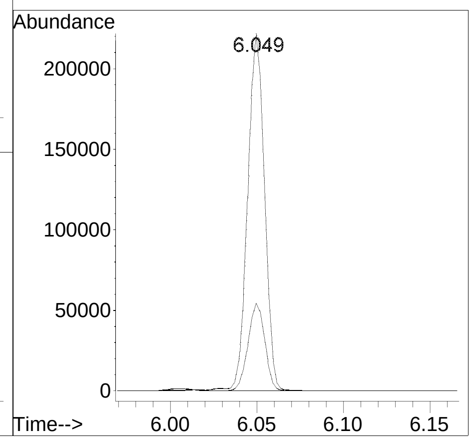
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.1 | 24.9 | 37.3 |

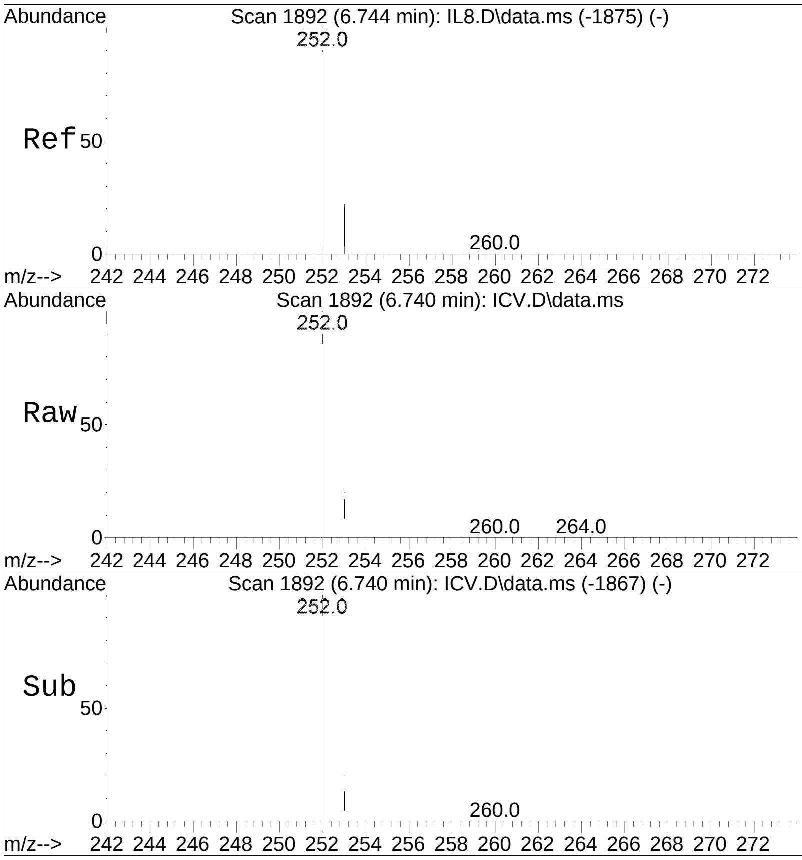



#35
Bis(2-ethylhexyl)phthalate
Concen: 957.74 ng/ml
RT: 6.049 min Scan# 1636
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

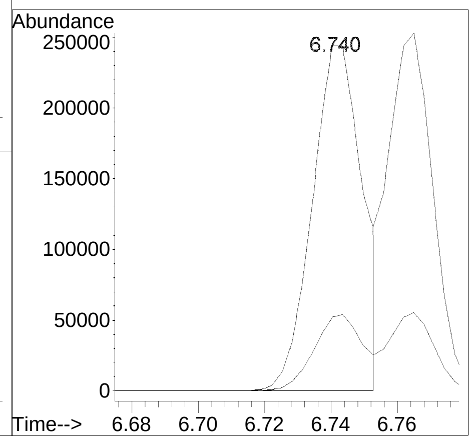
Tgt Ion:149 Resp: 148592

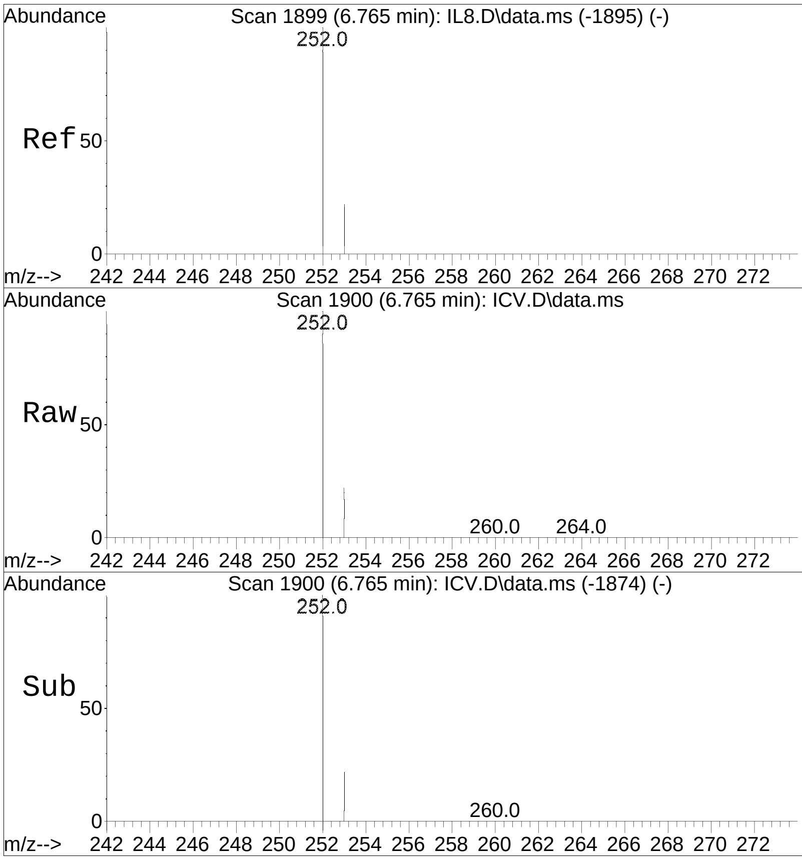
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.4 | 19.6 | 29.4 |






```
#37
Benzo[b]fluoranthene
Concen:  926.83 ng/ml
RT:    6.740 min  Scan# 1892
Delta R.T.  -0.004 min
Lab File:   ICV.D
Acq: 05 Nov 2024  10:13 am

Tgt Ion:252 Resp:  255448
Ion  Ratio  Lower  Upper
252  100
253   21.6   17.4   26.0
```

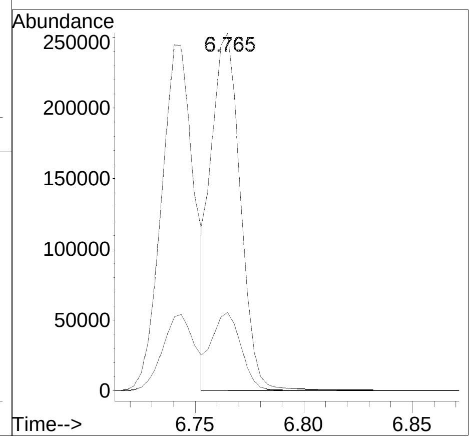


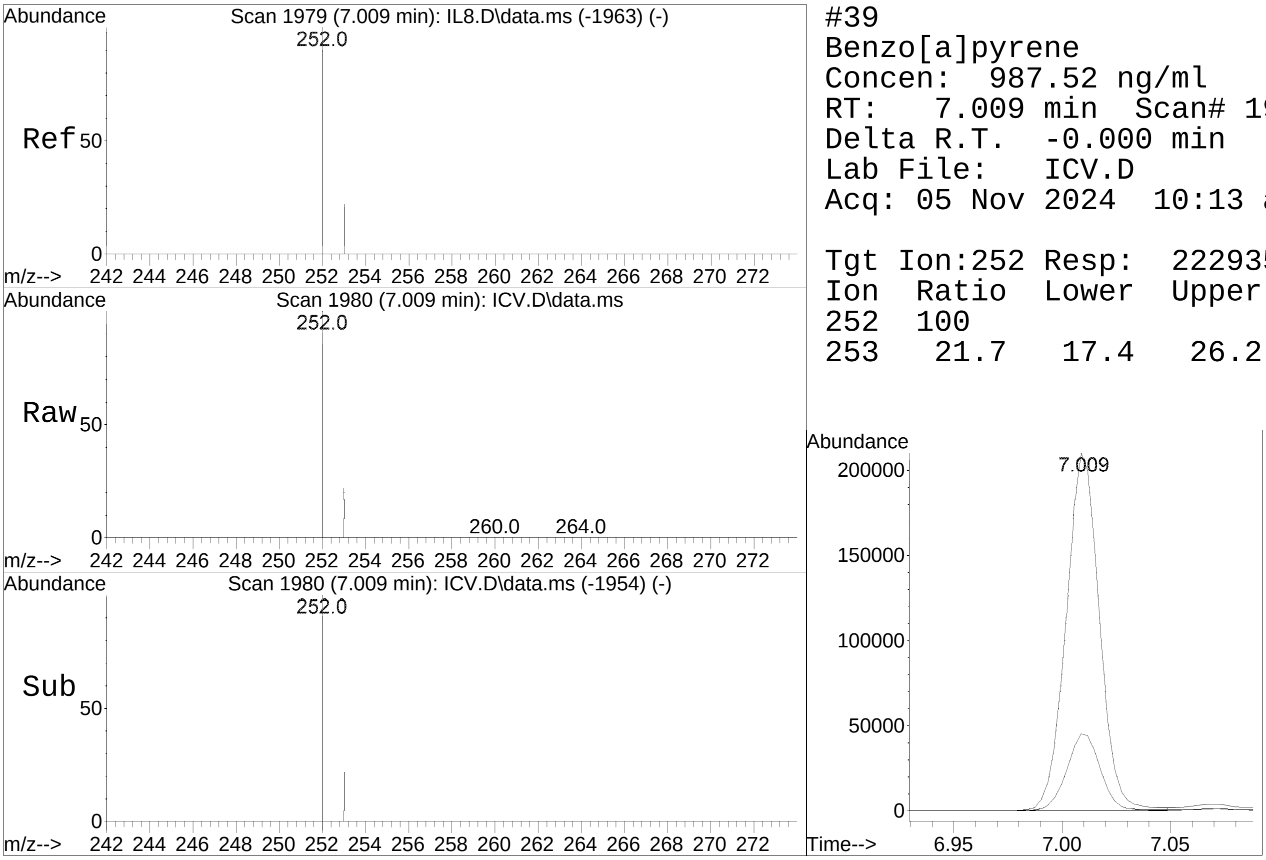



#38
Benzo[k]fluoranthene
Concen: 955.33 ng/ml
RT: 6.765 min Scan# 1900
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:252 Resp: 236705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.0 | 17.6 | 26.4 |

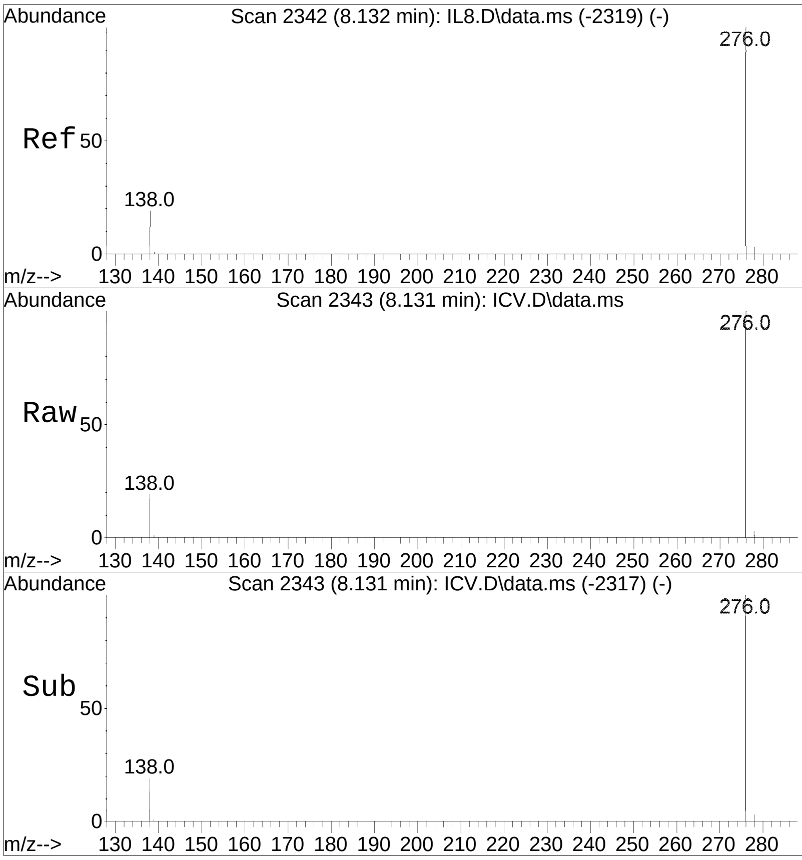





#39
Benzo[a]pyrene
Concen: 987.52 ng/ml
RT: 7.009 min Scan# 1980
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:252 Resp: 222935

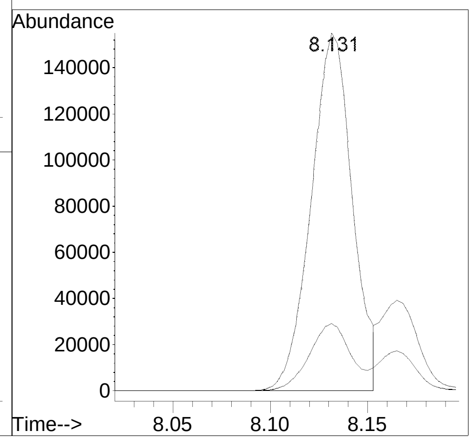
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.7 | 17.4 | 26.2 |

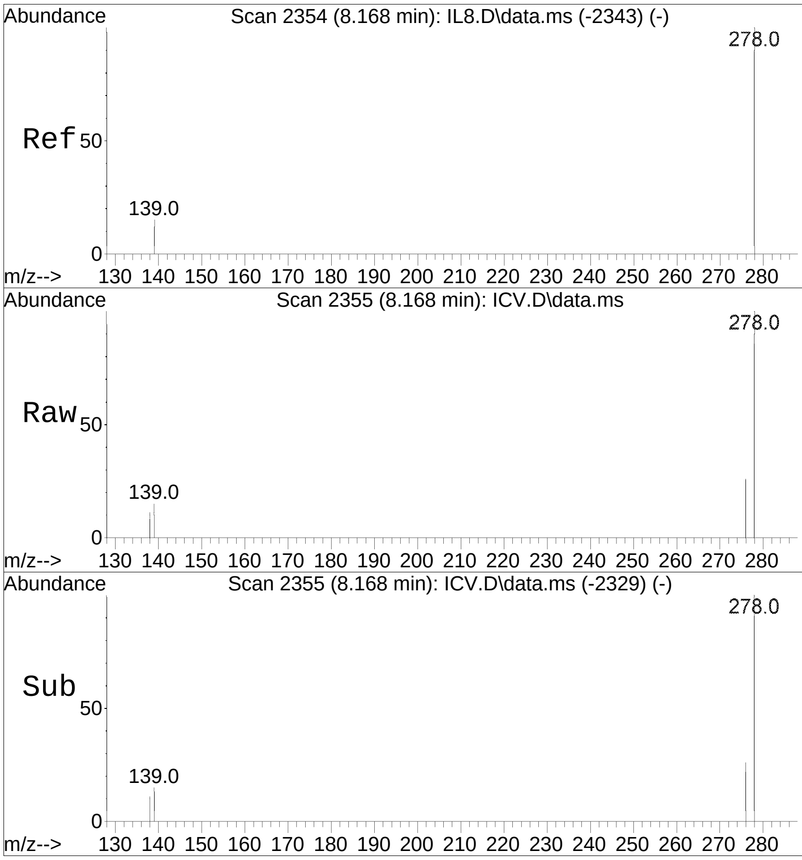



#40
Indeno[1,2,3-cd]pyrene
Concen:  980.82 ng/ml
RT:   8.131 min  Scan# 2343
Delta R.T.  -0.001 min
Lab File:   ICV.D
Acq: 05 Nov 2024  10:13 am

Tgt Ion:276 Resp:  226414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 19.1 | 15.4 | 23.0 |

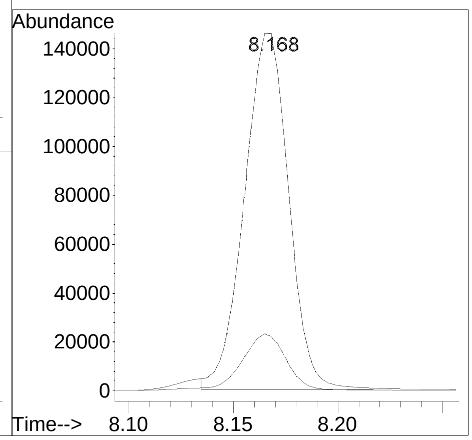


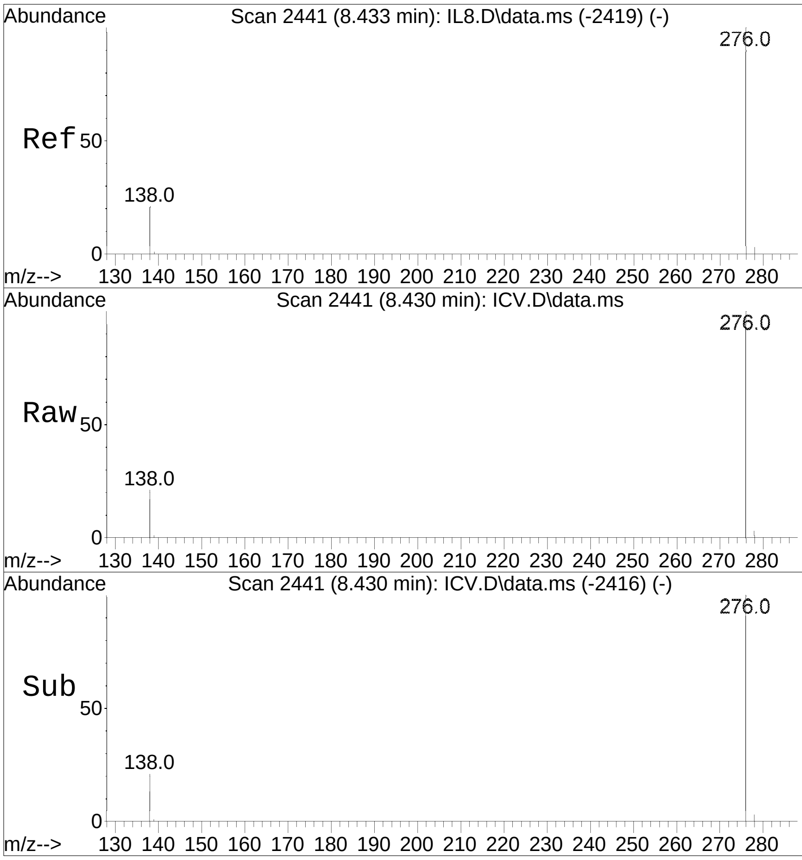



#41
Dibenzo[a,h]anthracene
Concen:  987.98 ng/ml M6
RT:   8.168 min  Scan# 2355
Delta R.T.  0.000 min
Lab File:   ICV.D
Acq: 05 Nov 2024  10:13 am

Tgt Ion:278 Resp:  214255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 16.2 | 13.0 | 19.6 |

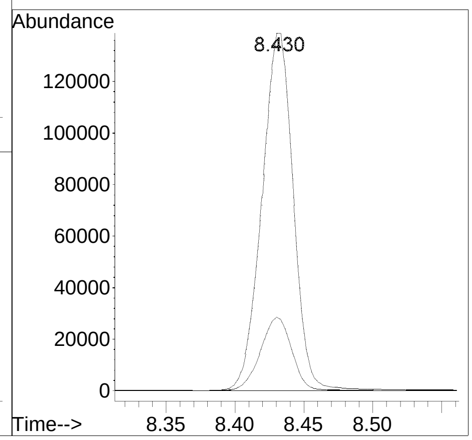





#42
Benzo[g,h,i]perylene
Concen: 971.22 ng/ml
RT: 8.430 min Scan# 2441
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:276 Resp: 217730

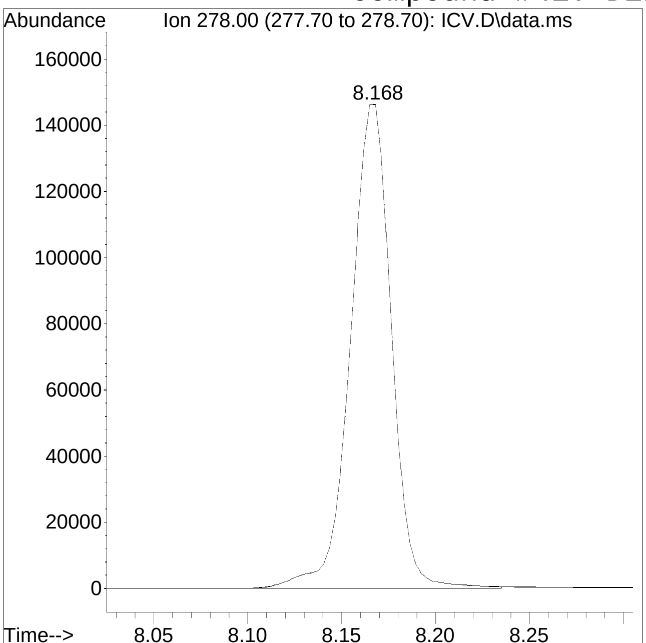
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 20.5 | 16.6 | 25.0 |

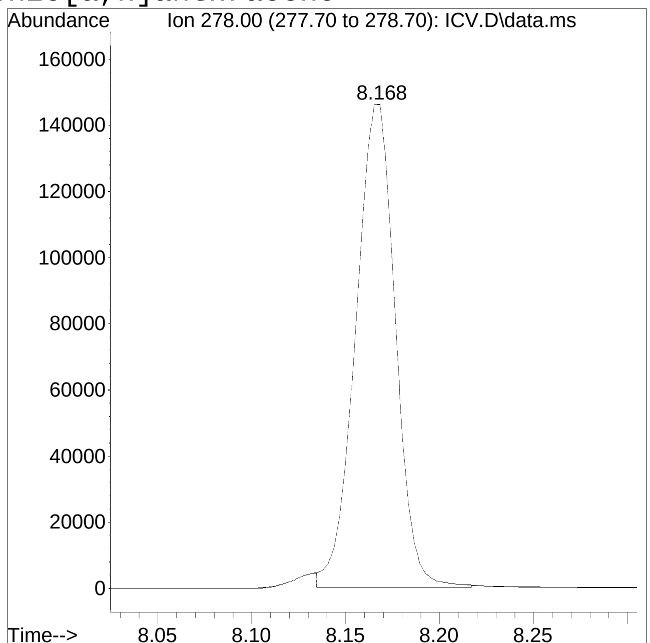


# Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : ICV.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 10:13 am Instrument : SV120
Sample : CQICV,32,,1000.0ng/mL lot Quant Date : 12/2/2024 11:36 am

Compound #41: Dibenzo[a,h]anthracene




Original Peak Response = 220814 Manual Peak Response = 214255 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Relative Error Report SV120

Method Path : I:\8270SIM\sv120\241105RVTical\
Method File : SIM-RVT_241105_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Nov 05 16:50:36 2024

| | | COMPOUND | CalFit | Units | TrueMid | MidConc | %RE | TrueLow | LowConc | %RE |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | T | Bis(2-chloroethyl)ether | Q | ng/ml | 1000.0 | 962.445 | -3.8 | 10.00 | 6.181 | -38.2 |
| 23 | T | 4,6-Dinitro-o-cresol | L | ng/ml | 1000.0 | 936.853 | -6.3 | 40.00 | 44.211 | 10.5 |
| 25 | T | Pentachlorophenol | Q | ng/ml | 1000.0 | 978.234 | -2.2 | 10.00 | 13.695 | 37.0 |
| 32 | T | Benzo[a]anthracene | L | ng/ml | 1000.0 | 981.668 | -1.8 | 1.00 | 0.947 | -5.3 |

Calibration Correlation Report

| | | COMPOUND | CalFit | CoefOfDet | QuadTerm | LinTerm | Constant |
|---|---|---|---|---|---|---|---|
| 4 | T | Bis(2-chloroethyl)ether | Quadratic | 0.994894 | -0.125863 | 1.25758 | 0.00100738 |
| 23 | T | 4,6-Dinitro-o-cresol | Linear | 0.998300 | 0.000000 | 0.120923 | -0.000655188 |
| 25 | T | Pentachlorophenol | Quadratic | 0.996532 | 0.018734 | 0.112024 | -0.000194831 |
| 32 | T | Benzo[a]anthracene | Linear | 0.999284 | 0.000000 | 1.21688 | 0.0029462 |

# Continuing Calibration

# Calibration Verification Summary
# Form 7
# Semivolatiles

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : SV118 | Calibration Date | : 12/21/24 17:23 |
| Lab File ID | : CCV1221A | Init. Calib. Date(s) | : 10/25/24 10/25/24 |
| Sample No | : WG2012269-3 | Init. Calib. Times | : 16:43 19:21 |
| Channel | : | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 1 | 1 | .01 | 0 | 20 | 67 | 0 |
| 2-Fluorophenol | 1.131 | 1.108 | .01 | 2 | 20 | 67 | 0 |
| Phenol-d6 | 1.39 | 1.331 | .01 | 4.2 | 20 | 65 | 0 |
| Bis(2-chloroethyl)ether | 1000 | 979.137 | .01 | 2.1 | 20 | 65 | 0 |
| n-nitrosodi-n-propylamine | 0.879 | 0.768 | .01 | 12.6 | 20 | 59 | 0 |
| Hexachloroethane | 0.502 | 0.533 | .01 | -6.2 | 20 | 71 | 0 |
| Nitrobenzene-d5 | 0.897 | 1.165 | .01 | -29.9* | 20 | 83 | 0 |
| Naphthalene-d8 | 1 | 1 | .01 | 0 | 20 | 69 | 0 |
| Naphthalene | 1.053 | 0.975 | .01 | 7.4 | 20 | 66 | 0 |
| Hexachlorobutadiene | 0.187 | 0.169 | .01 | 9.6 | 20 | 63 | 0 |
| 2-Methylnaphthalene | 0.674 | 0.655 | .01 | 2.8 | 20 | 67 | 0 |
| 1-Methylnaphthalene | 0.627 | 0.603 | .01 | 3.8 | 20 | 67 | 0 |
| 2-Fluorobiphenyl | 0.769 | 0.742 | .01 | 3.5 | 20 | 68 | 0 |
| 2-Chloronaphthalene | 0.677 | 0.643 | .01 | 5 | 20 | 66 | 0 |
| 2,6-Dinitrotoluene | 0.092 | 0.13 | .01 | -41.3* | 20 | 93 | 0 |
| Acenaphthylene | 1.002 | 0.974 | .01 | 2.8 | 20 | 65 | 0 |
| Acenaphthene-d10 | 1 | 1 | .01 | 0 | 20 | 69 | 0 |
| Acenaphthene | 1.308 | 1.222 | .01 | 6.6 | 20 | 67 | 0 |
| 2,4-Dinitrotoluene | 1000 | 1290.337 | .01 | -29* | 20 | 97 | 0 |
| Fluorene | 1.393 | 1.329 | .01 | 4.6 | 20 | 66 | 0 |
| 2,4,6-Tribromophenol | 0.184 | 0.205 | .01 | -11.4 | 20 | 73 | 0 |
| Phenanthrene-d10 | 1 | 1 | .01 | 0 | 20 | 68 | 0 |
| 4,6-Dinitro-o-cresol | 1000 | 1601.872 | .01 | -60.2* | 20 | 119 | 0 |
| Hexachlorobenzene | 0.263 | 0.223 | .01 | 15.2 | 20 | 58 | 0 |
| Pentachlorophenol | 0.098 | 0.099 | .01 | -1 | 20 | 62 | 0 |
| Phenanthrene | 1.086 | 0.989 | .01 | 8.9 | 20 | 64 | 0 |
| Anthracene | 1.066 | 0.998 | .01 | 6.4 | 20 | 64 | 0 |
| Fluoranthene | 1.216 | 1.053 | .01 | 13.4 | 20 | 60 | 0 |
| Pyrene | 1.291 | 1.141 | .01 | 11.6 | 20 | 61 | 0 |
| 4-Terphenyl-d14 | 0.818 | 0.651 | .01 | 20.4* | 20 | 56 | 0 |
| Chrysene-d12 | 1 | 1 | .01 | 0 | 20 | 59 | 0 |
| Benzo[a]anthracene | 0.392 | 0.353 | .01 | 9.9 | 20 | 58 | 0 |
| 3,3'-Dichlorobenzidine | 0.418 | 0.436 | .01 | -4.3 | 20 | 55 | 0 |
| Chrysene | 1.207 | 1.152 | .01 | 4.6 | 20 | 57 | 0 |
| Bis(2-ethylhexyl)phthalate | 0.696 | 0.685 | .01 | 1.6 | 20 | 55 | 0 |
| Perylene-d12 | 1 | 1 | .01 | 0 | 20 | 52 | 0 |
| Benzo[b]fluoranthene | 1.031 | 1.12 | .01 | -8.6 | 20 | 55 | 0 |
| Benzo[k]fluoranthene | 1.093 | 1.137 | .01 | -4 | 20 | 51 | 0 |
| Benzo[a]pyrene | 0.911 | 0.974 | .01 | -6.9 | 20 | 52 | 0 |
| Indeno[1,2,3-cd]pyrene | 0.849 | 0.907 | .01 | -6.8 | 20 | 49 | 0 |
| Dibenzo[a,h]anthracene | 0.865 | 0.903 | .01 | -4.4 | 20 | 50 | 0 |
| Benzo[g,h,i]perylene | 0.89 | 0.906 | .01 | -1.8 | 20 | 50 | 0 |

* Value outside of QC limits.

# Calibration Verification Summary
# Form 7
# Semivolatiles

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : SV120 | Calibration Date | : 12/22/24 07:17 |
| Lab File ID | : CCV1222 | Init. Calib. Date(s) | : 11/05/24 11/05/24 |
| Sample No | : WG2012326-3 | Init. Calib. Times | : 07:30 09:57 |
| Channel | : | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 1 | 1 | .05 | 0 | 20 | 71 | 0 |
| 2-Fluorophenol | 1.177 | 1.244 | .05 | -5.7 | 20 | 77 | 0 |
| Phenol-d6 | 1.447 | 1.493 | .05 | -3.2 | 20 | 74 | 0 |
| Bis(2-chloroethyl)ether | 1000 | 954.211 | .05 | 4.6 | 20 | 71 | 0 |
| n-nitrosodi-n-propylamine | 0.873 | 0.872 | .05 | 0.1 | 20 | 71 | 0 |
| Hexachloroethane | 0.524 | 0.521 | .05 | 0.6 | 20 | 72 | 0 |
| Nitrobenzene-d5 | 1.277 | 1.296 | .05 | -1.5 | 20 | 72 | 0 |
| Naphthalene-d8 | 1 | 1 | .05 | 0 | 20 | 72 | 0 |
| Naphthalene | 1 | 0.968 | .05 | 3.2 | 20 | 73 | 0 |
| Hexachlorobutadiene | 0.189 | 0.183 | .05 | 3.2 | 20 | 72 | 0 |
| 2-Methylnaphthalene | 0.694 | 0.678 | .05 | 2.3 | 20 | 73 | 0 |
| 1-Methylnaphthalene | 0.639 | 0.621 | .05 | 2.8 | 20 | 74 | 0 |
| 2-Fluorobiphenyl | 0.806 | 0.758 | .05 | 6 | 20 | 73 | 0 |
| 2-Chloronaphthalene | 0.689 | 0.657 | .05 | 4.6 | 20 | 73 | 0 |
| 2,6-Dinitrotoluene | 0.156 | 0.157 | .05 | -0.6 | 20 | 74 | 0 |
| Acenaphthylene | 0.994 | 1.009 | .05 | -1.5 | 20 | 74 | 0 |
| Acenaphthene-d10 | 1 | 1 | .05 | 0 | 20 | 71 | 0 |
| Acenaphthene | 1.207 | 1.183 | .05 | 2 | 20 | 74 | 0 |
| 2,4-Dinitrotoluene | 0.336 | 0.379 | .05 | -12.8 | 20 | 77 | 0 |
| Fluorene | 1.306 | 1.341 | .05 | -2.7 | 20 | 75 | 0 |
| 2,4,6-Tribromophenol | 0.159 | 0.191 | .05 | -20.1* | 20 | 82 | 0 |
| Phenanthrene-d10 | 1 | 1 | .05 | 0 | 20 | 73 | 0 |
| 4,6-Dinitro-o-cresol | 1000 | 905.115 | .05 | 9.5 | 20 | 71 | 0 |
| Hexachlorobenzene | 0.211 | 0.22 | .05 | -4.3 | 20 | 80 | 0 |
| Pentachlorophenol | 1000 | 1100.957 | .05 | -10.1 | 20 | 83 | 0 |
| Phenanthrene | 0.953 | 1.008 | .05 | -5.8 | 20 | 77 | 0 |
| Anthracene | 0.986 | 1.036 | .05 | -5.1 | 20 | 78 | 0 |
| Fluoranthene | 1.098 | 1.196 | .05 | -8.9 | 20 | 84 | 0 |
| Pyrene | 1.132 | 1.263 | .05 | -11.6 | 20 | 86 | 0 |
| 4-Terphenyl-d14 | 0.727 | 0.736 | .05 | -1.2 | 20 | 78 | 0 |
| Chrysene-d12 | 1 | 1 | .05 | 0 | 20 | 80 | 0 |
| Benzo[a]anthracene | 1000 | 1050.859 | .05 | -5.1 | 20 | 85 | 0 |
| 3,3'-Dichlorobenzidine | 0.432 | 0.518 | .05 | -19.9 | 20 | 93 | 0 |
| Chrysene | 1.059 | 1.204 | .05 | -13.7 | 20 | 84 | 0 |
| Bis(2-ethylhexyl)phthalate | 0.708 | 0.783 | .05 | -10.6 | 20 | 87 | 0 |
| Perylene-d12 | 1 | 1 | .05 | 0 | 20 | 81 | 0 |
| Benzo[b]fluoranthene | 1.214 | 1.247 | .05 | -2.7 | 20 | 87 | 0 |
| Benzo[k]fluoranthene | 1.091 | 1.205 | .05 | -10.4 | 20 | 87 | 0 |
| Benzo[a]pyrene | 0.994 | 1.126 | .05 | -13.3 | 20 | 89 | 0 |
| Indeno[1,2,3-cd]pyrene | 1.017 | 1.141 | .05 | -12.2 | 20 | 90 | 0 |
| Dibenzo[a,h]anthracene | 0.955 | 1.063 | .05 | -11.3 | 20 | 90 | 0 |
| Benzo[g,h,i]perylene | 0.987 | 1.079 | .05 | -9.3 | 20 | 88 | 0 |

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : ccv1221a.D
Acq On : 21 Dec 2024 05:23 pm
Operator : SV118:slr
Sample : WG2012269-3,32,,ICV 10884 (1221b)
Misc : WG2012269,,ical21646
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 21 17:37:17 2024
Quant Method : I:\8270SIM\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:01 2024
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 | 67 | 0.00 |
| 2 | s | 2-Fluorophenol | 1.131 | 1.108 | 2.0 | 67 | 0.00 |
| 3 | s | Phenol-d6 | 1.390 | 1.331 | 4.2 | 65 | 0.00 |
| 4 | T | Bis(2-chloroethyl)ether | *1000.000 | 979.137 | 2.1 | 65 | 0.00 |
| 5 | T | n-nitrosodi-n-propylamine | 0.879 | 0.768 | 12.6 | 59 | 0.00 |
| 6 | t | Hexachloroethane | 0.502 | 0.533 | -6.2 | 71 | 0.00 |
| 7 | s | Nitrobenzene-d5 | 0.897 | 1.165 | -29.9# | 83 | 0.00 |
| 8 | i | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 69 | 0.00 |
| 9 | t | Naphthalene | 1.053 | 0.975 | 7.4 | 66 | 0.00 |
| 10 | t | Hexachlorobutadiene | 0.187 | 0.169 | 9.6 | 63 | 0.00 |
| 11 | t | 2-Methylnaphthalene | 0.674 | 0.655 | 2.8 | 67 | 0.00 |
| 12 | t | 1-Methylnaphthalene | 0.627 | 0.603 | 3.8 | 67 | 0.00 |
| 13 | s | 2-Fluorobiphenyl | 0.769 | 0.742 | 3.5 | 68 | 0.00 |
| 14 | t | 2-Chloronaphthalene | 0.677 | 0.643 | 5.0 | 66 | 0.00 |
| 15 | t | 2,6-Dinitrotoluene | 0.092 | 0.130 | -41.3# | 93 | 0.00 |
| 16 | t | Acenaphthylene | 1.002 | 0.974 | 2.8 | 65 | 0.00 |
| 17 | i | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 69 | 0.00 |
| 18 | t | Acenaphthene | 1.308 | 1.222 | 6.6 | 67 | 0.00 |
| 19 | t | 2,4-Dinitrotoluene | *1000.000 | 1290.337 | -29.0# | 97 | 0.00 |
| 20 | t | Fluorene | 1.393 | 1.329 | 4.6 | 66 | 0.00 |
| 21 | s | 2,4,6-Tribromophenol | 0.184 | 0.205 | -11.4 | 73 | 0.00 |
| 22 | i | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 68 | 0.00 |
| 23 | T | 4,6-Dinitro-o-cresol | *1000.000 | 1601.872 | -60.2# | 119 | 0.00 |
| 24 | t | Hexachlorobenzene | 0.263 | 0.223 | 15.2 | 58 | 0.00 |
| 25 | t | Pentachlorophenol | 0.098 | 0.099 | -1.0 | 62 | 0.00 |
| 26 | t | Phenanthrene | 1.086 | 0.989 | 8.9 | 64 | 0.00 |
| 27 | t | Anthracene | 1.066 | 0.998 | 6.4 | 64 | 0.00 |
| 28 | t | Fluoranthene | 1.216 | 1.053 | 13.4 | 60 | 0.00 |
| 29 | t | Pyrene | 1.291 | 1.141 | 11.6 | 61 | 0.00 |
| 30 | s | 4-Terphenyl-d14 | 0.818 | 0.651 | 20.4# | 56 | 0.00 |
| 31 | i | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 59 | 0.00 |
| 32 | t | Benzo[a]anthracene | 0.392 | 0.353 | 9.9 | 58 | 0.00 |
| 33 | t | 3,3'-Dichlorobenzidine | 0.418 | 0.436 | -4.3 | 55 | 0.00 |
| 34 | t | Chrysene | 1.207 | 1.152 | 4.6 | 57 | 0.00 |
| 35 | T | Bis(2-ethylhexyl)phthalate | 0.696 | 0.685 | 1.6 | 55 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : ccv1221a.D
Acq On : 21 Dec 2024 05:23 pm
Operator : SV118:slr
Sample : WG2012269-3,32,,ICV 10884 (1221b)
Misc : WG2012269,,ical21646
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 21 17:37:17 2024
Quant Method : I:\8270SIM\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:01 2024
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 | 52 | 0.00 |
| 37 | t | Benzo[b]fluoranthene | 1.031 | 1.120 | -8.6 | 55 | 0.00 |
| 38 | t | Benzo[k]fluoranthene | 1.093 | 1.137 | -4.0 | 51 | 0.00 |
| 39 | t | Benzo[a]pyrene | 0.911 | 0.974 | -6.9 | 52 | 0.00 |
| 40 | t | Indeno[1,2,3-cd]pyrene | 0.849 | 0.907 | -6.8 | 49# | 0.00 |
| 41 | t | Dibenzo[a,h]anthracene | 0.865 | 0.903 | -4.4 | 50# | 0.00 |
| 42 | t | Benzo[g,h,i]perylene | 0.890 | 0.906 | -1.8 | 50 | 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\241221aRVT\
Data File : ccv1221a.D
Acq On : 21 Dec 2024 05:23 pm
Operator : SV118:slr
Sample : WG2012269-3,32,,ICV 10884 (1221b)
Misc : WG2012269,,ical21646
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 21 17:37:17 2024
Quant Method : I:\8270SIM\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:01 2024
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 | 2.228 | 152 | 288875 | 4000.000 | ng/ml | 0.00 |
| 8) Naphthalene-d8 | 2.901 | 136 | 1082128 | 4000.000 | ng/ml | 0.00 |
| 17) Acenaphthene-d10 | 3.892 | 164 | 599204 | 4000.000 | ng/ml | 0.00 |
| 22) Phenanthrene-d10 | 4.741 | 188 | 1192441 | 4000.000 | ng/ml | # 0.00 |
| 31) Chrysene-d12 | 6.300 | 240 | 1002090 | 4000.000 | ng/ml | 0.00 |
| 36) Perylene-d12 | 7.529 | 264 | 933388 | 4000.000 | ng/ml | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 2) 2-Fluorophenol | 1.633 | 112 | 80010 | 979.628 | ng/ml | 0.00 |
| Spiked Amount 2000.000 | Range 15 - 110 | | Recovery = 48.98% | | | |
| 3) Phenol-d6 | 2.040 | 99 | 96090 | 957.446 | ng/ml | 0.00 |
| Spiked Amount 2000.000 | Range 15 - 110 | | Recovery = 47.87% | | | |
| 7) Nitrobenzene-d5 | 2.512 | 82 | 84109 | 1298.091 | ng/ml | 0.00 |
| Spiked Amount 1000.000 | Range 30 - 130 | | Recovery = 129.81% | | | |
| 13) 2-Fluorobiphenyl | 3.508 | 172 | 200616 | 964.179 | ng/ml | 0.00 |
| Spiked Amount 1000.000 | Range 30 - 130 | | Recovery = 96.42% | | | |
| 21) 2,4,6-Tribromophenol | 4.344 | 330 | 30720 | 1112.609 | ng/ml | 0.00 |
| Spiked Amount 2000.000 | Range 15 - 110 | | Recovery = 55.63% | | | |
| 30) 4-Terphenyl-d14 | 5.660 | 244 | 194053 | 795.358 | ng/ml | 0.00 |
| Spiked Amount 1000.000 | Range 30 - 130 | | Recovery = 79.54% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 4) Bis(2-chloroethyl)ether | 2.091 | 93 | 83803 | 979.137 | ng/ml | 93 |
| 5) n-nitrosodi-n-propylamine | 2.430 | 70 | 55432 | 873.319 | ng/ml | 95 |
| 6) Hexachloroethane | 2.488 | 117 | 38469 | 1061.408 | ng/ml | 82 |
| 9) Naphthalene | 2.909 | 128 | 263884 | 926.368 | ng/ml | 100 |
| 10) Hexachlorobutadiene | 2.984 | 225 | 45738 | 904.646 | ng/ml | 100 |
| 11) 2-Methylnaphthalene | 3.296 | 142 | 177201 | 971.193 | ng/ml | 97 |
| 12) 1-Methylnaphthalene | 3.351 | 142 | 163199 | 961.436 | ng/ml | 98 |
| 14) 2-Chloronaphthalene | 3.572 | 162 | 174054 | 950.466 | ng/ml | 91 |
| 15) 2,6-Dinitrotoluene | 3.772 | 165 | 35268 | 1422.916 | ng/ml# | 85 |
| 16) Acenaphthylene | 3.808 | 152 | 263488 | 971.950 | ng/ml | 99 |
| 18) Acenaphthene | 3.909 | 153 | 182988 | 934.162 | ng/ml | 98 |
| 19) 2,4-Dinitrotoluene | 4.003 | 165 | 48262 | 1290.337 | ng/ml# | 81 |
| 20) Fluorene | 4.201 | 166 | 199039 | 953.747 | ng/ml | 98 |
| 23) 4,6-Dinitro-o-cresol | 4.237 | 198 | 24329 | 1601.872 | ng/ml# | 76 |
| 24) Hexachlorobenzene | 4.526 | 284 | 66339 | 844.997 | ng/ml | 88 |
| 25) Pentachlorophenol | 4.638 | 266 | 29624 | 1014.459 | ng/ml | 100 |
| 26) Phenanthrene | 4.753 | 178 | 294868 | 910.902 | ng/ml | 99 |
| 27) Anthracene | 4.782 | 178 | 297591 | 936.763 | ng/ml | 99 |

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : ccv1221a.D
Acq On : 21 Dec 2024 05:23 pm
Operator : SV118:slr
Sample : WG2012269-3,32,,ICV 10884 (1221b)
Misc : WG2012269,,ical21646
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 21 17:37:17 2024
Quant Method : I:\8270SIM\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 28) Fluoranthene | 5.439 | 202 | 313977 | 866.482 | ng/ml# | 93 |
| 29) Pyrene | 5.567 | 202 | 340108 | 883.572 | ng/ml | 99 |
| 32) Benzo[a]anthracene | 6.292 | 226 | 88433 | 901.119 | ng/ml# | 95 |
| 33) 3,3'-Dichlorobenzidine | 6.277 | 252 | 109212 | 1043.995 | ng/ml | 99 |
| 34) Chrysene | 6.314 | 228 | 288674 | 954.954 | ng/ml# | 98 |
| 35) Bis(2-ethylhexyl)phtha... | 6.319 | 149 | 171598 | 984.386 | ng/ml | 92 |
| 37) Benzo[b]fluoranthene | 7.146 | 252 | 261355 | 1086.074 | ng/ml | 99 |
| 38) Benzo[k]fluoranthene | 7.170 | 252 | 265371 | 1040.082 | ng/ml | 100 |
| 39) Benzo[a]pyrene | 7.460 | 252 | 227170 | 1068.530 | ng/ml | 100 |
| 40) Indeno[1,2,3-cd]pyrene | 8.776 | 276 | 211616 | 1067.675 | ng/ml# | 85 |
| 41) Dibenzo[a,h]anthracene | 8.814 | 278 | 210774M6 | 1044.668 | ng/ml | |
| 42) Benzo[g,h,i]perylene | 9.126 | 276 | 211420 | 1017.560 | ng/ml# | 82 |

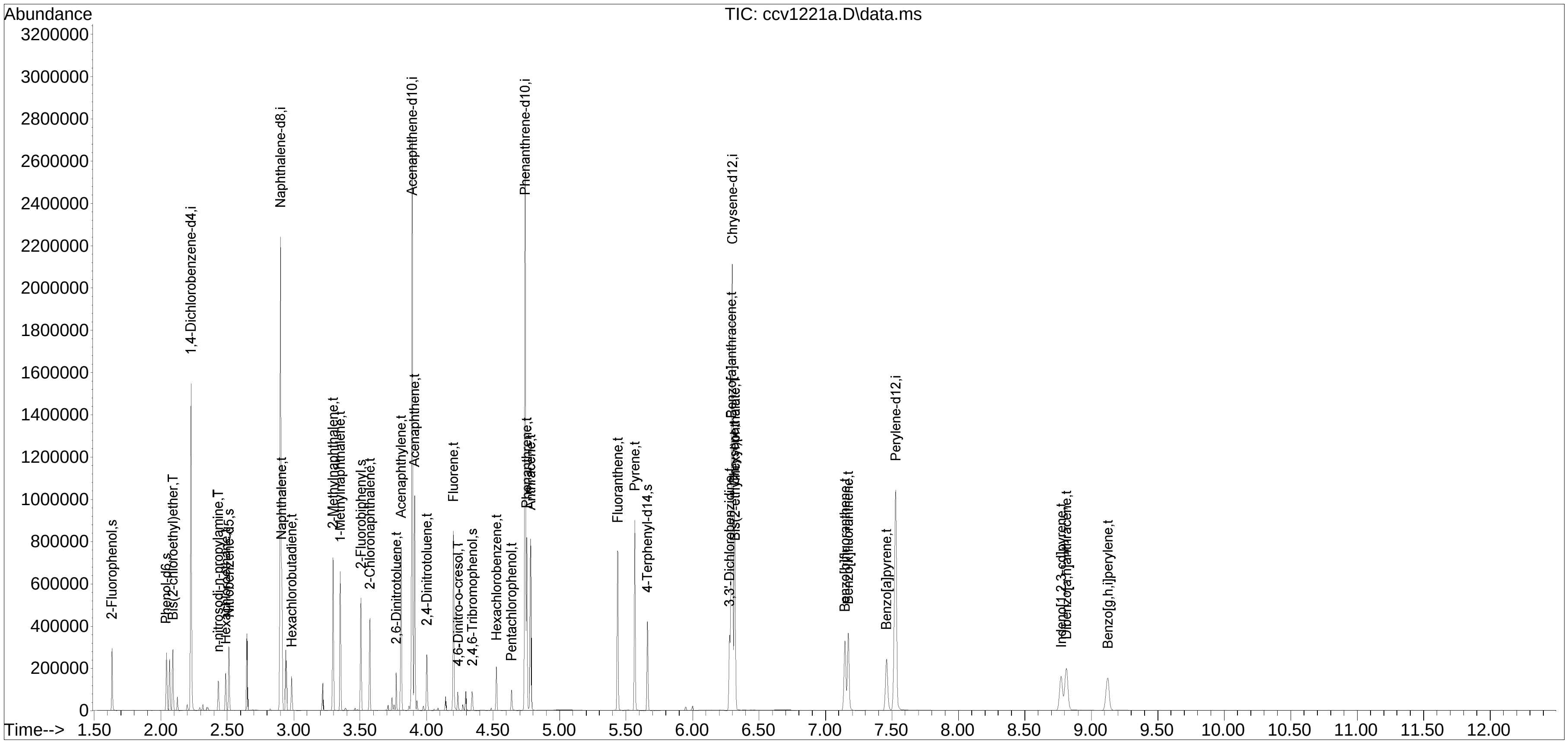
(#) = qualifier out of range (m) = manual integration (+) = signals summed

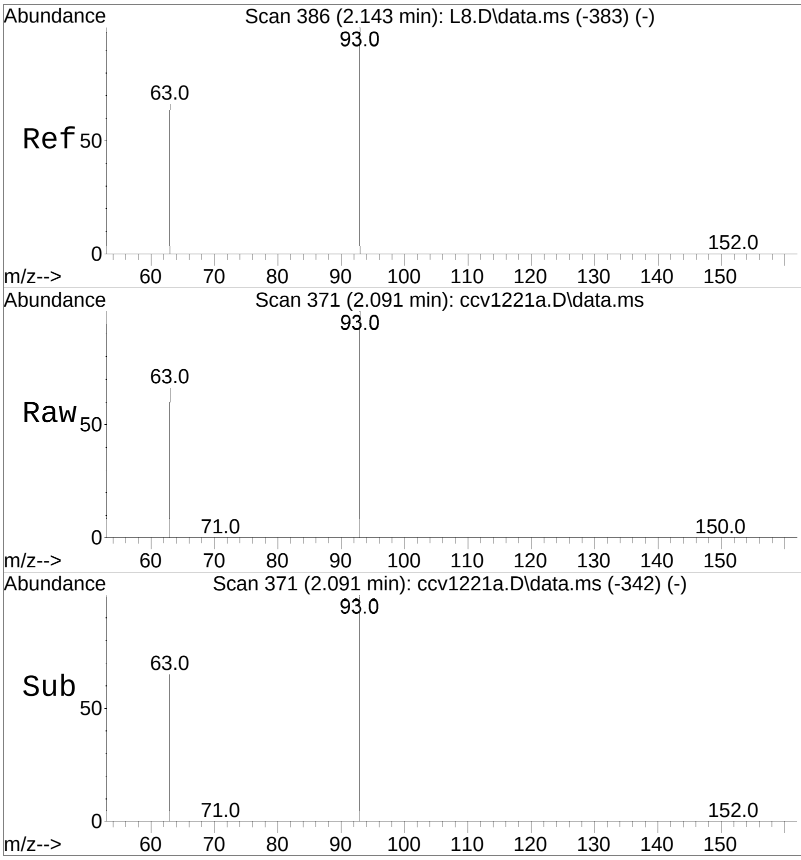
Quantitation Report    (QT Reviewed)

Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : ccv1221a.D
Acq On    : 21 Dec 2024  05:23 pm
Operator  : SV118:slr
Sample    : WG2012269-3,32,,ICV 10884 (1221b)
Misc      : WG2012269,,ical21646
ALS Vial  : 49   Sample Multiplier: 1

Quant Time: Dec 21 17:37:17 2024
Quant Method : I:\8270SIM\SV118\241221aRVT\SIM-RVT_241025sv118.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 21 17:38:01 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listed

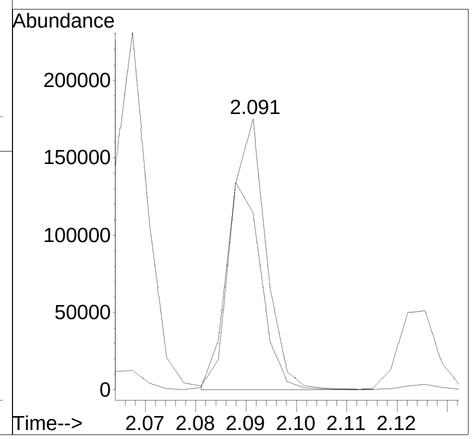


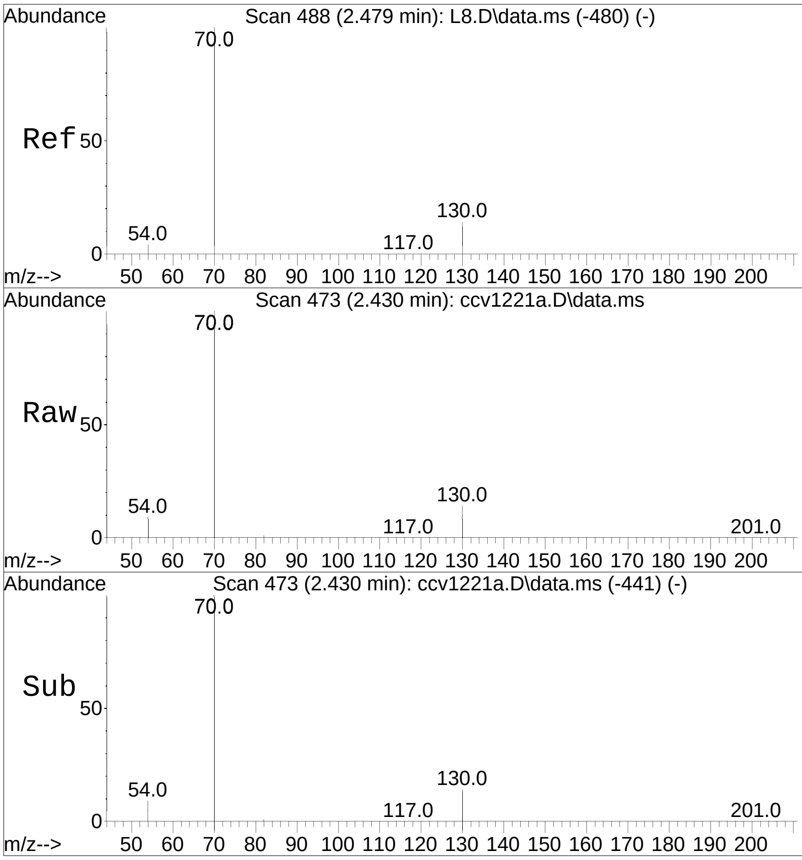



#4
Bis(2-chloroethyl)ether
Concen: 979.14 ng/ml
RT: 2.091 min Scan# 371
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion: 93 Resp: 83803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 78.5 | 68.1 | 102.1 |

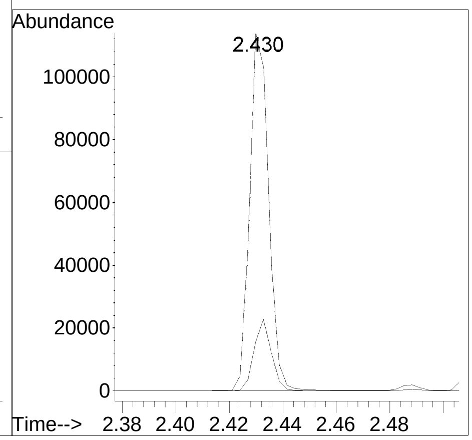


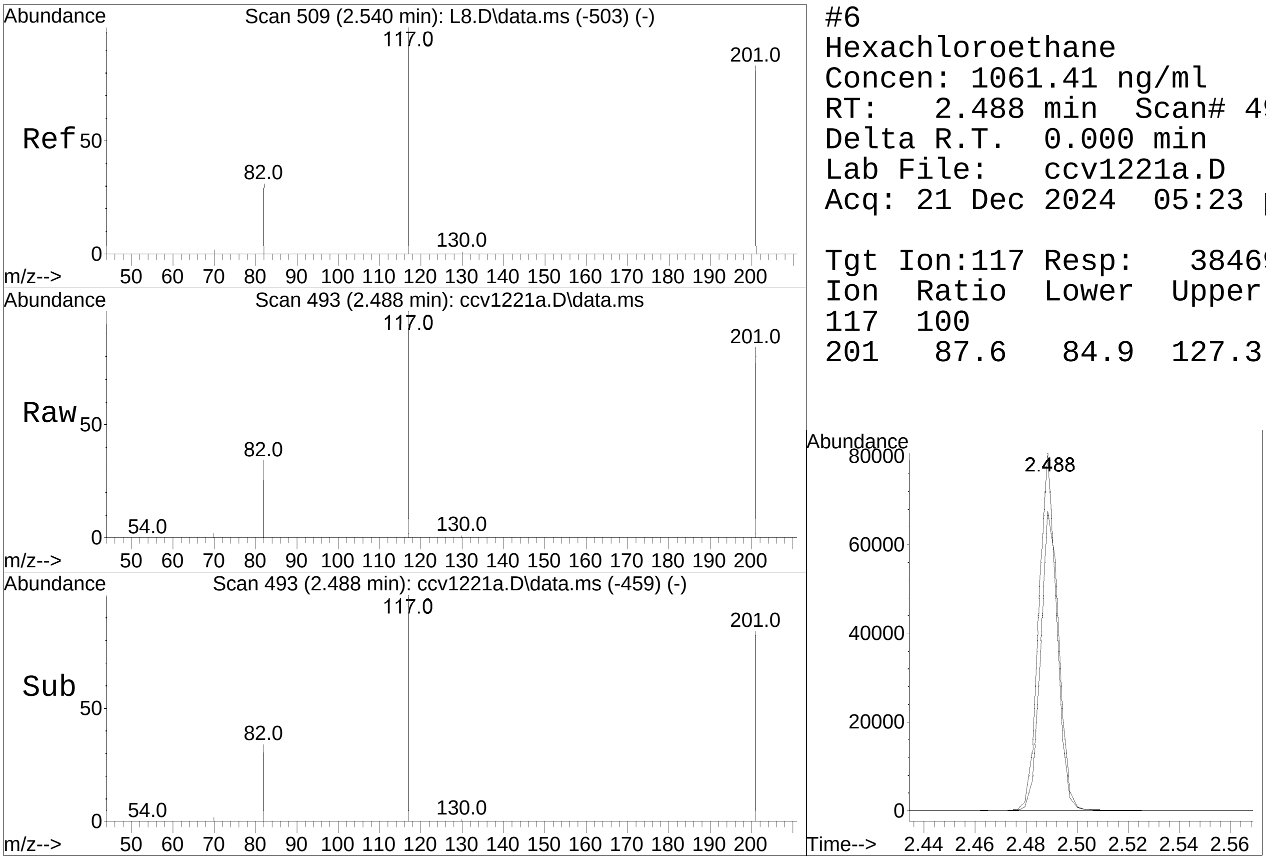



#5
n-nitrosodi-n-propylamine
Concen:  873.32 ng/ml
RT:    2.430 min  Scan# 473
Delta R.T.  0.000 min
Lab File:   ccv1221a.D
Acq: 21 Dec 2024  05:23 pm

Tgt Ion: 70 Resp:   55432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 130 | 18.3 | 13.0 | 19.4 |

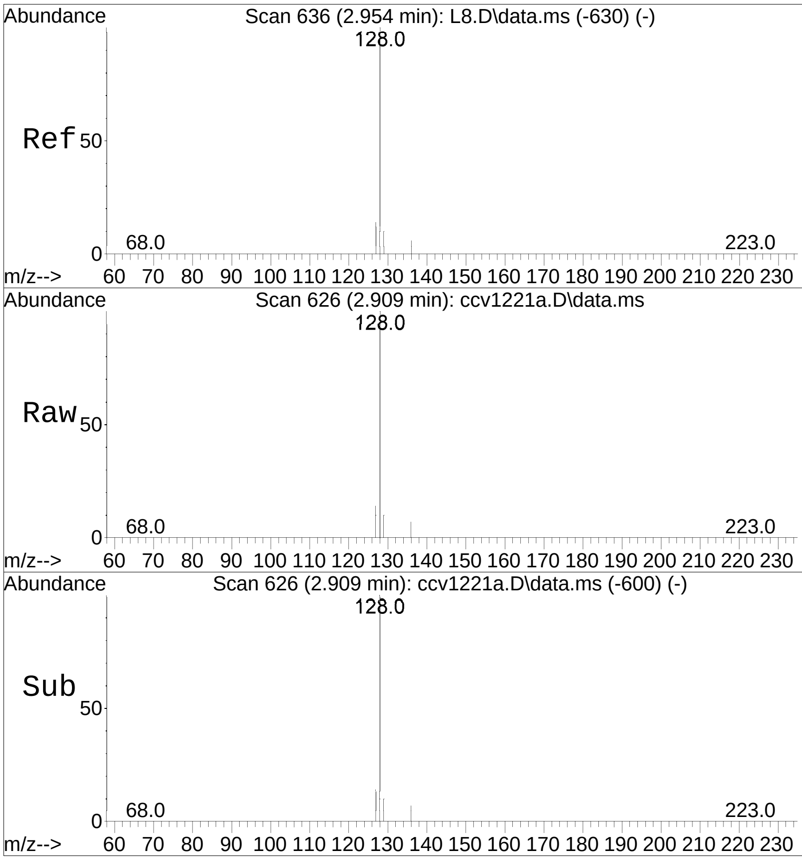





#6
Hexachloroethane
Concen: 1061.41 ng/ml
RT: 2.488 min Scan# 493
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:117 Resp: 38469

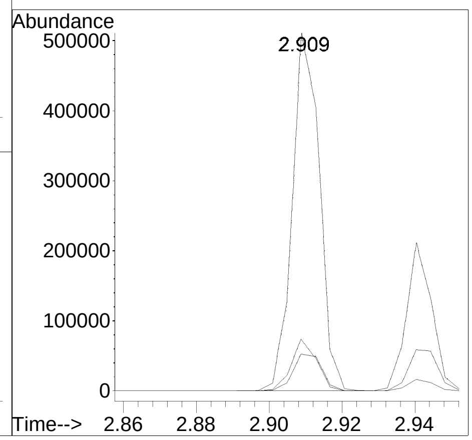
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 87.6 | 84.9 | 127.3 |

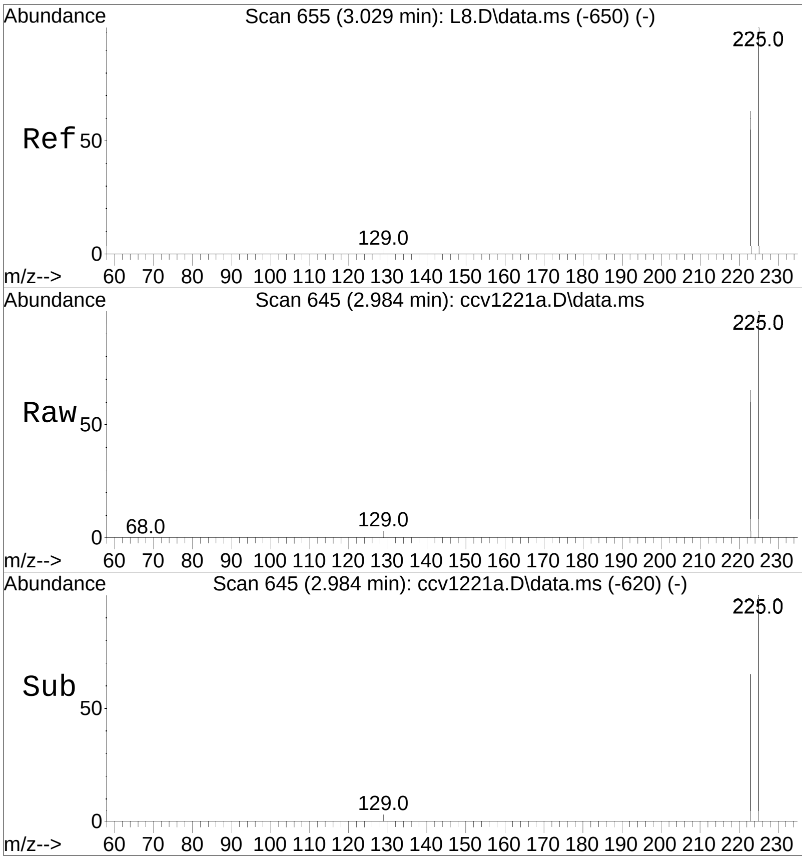



#9
Naphthalene
Concen: 926.37 ng/ml
RT: 2.909 min Scan# 626
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:128 Resp: 263884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.1 | 8.8 | 13.2 |
| 127 | 13.5 | 10.7 | 16.1 |

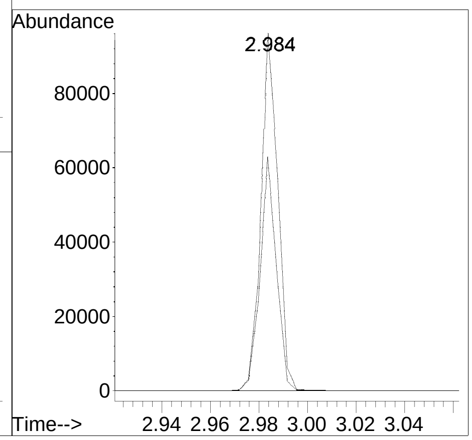


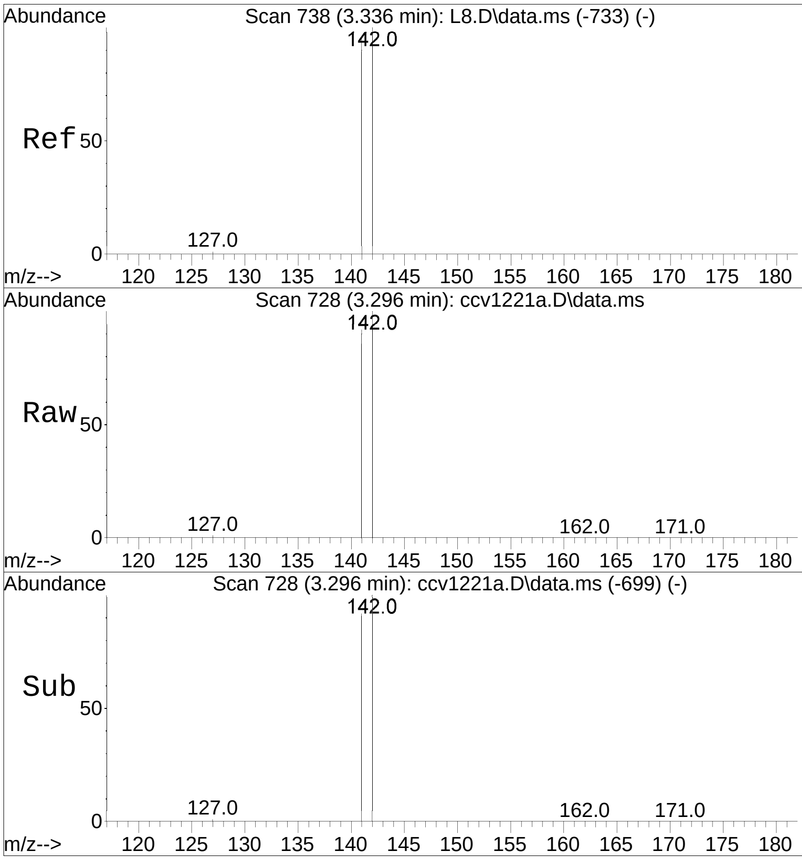



#10
Hexachlorobutadiene
Concen: 904.65 ng/ml
RT: 2.984 min Scan# 645
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:225 Resp: 45738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.0 | 50.4 | 75.6 |

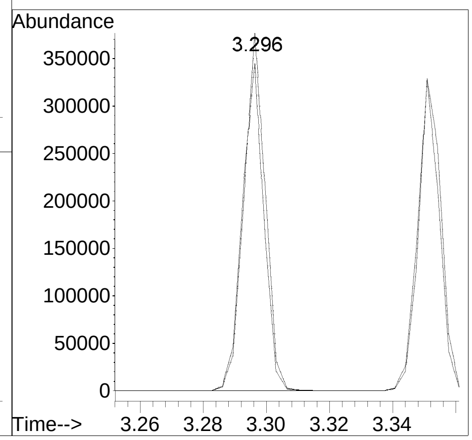


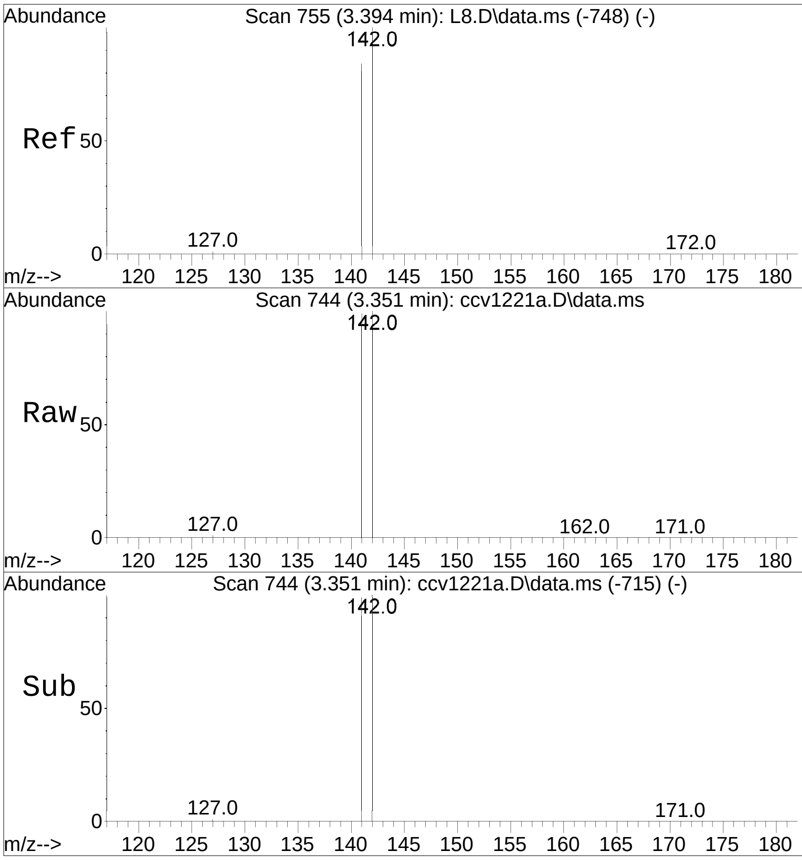



#11
2-Methylnaphthalene
Concen:  971.19 ng/ml
RT:   3.296 min  Scan# 728
Delta R.T.  0.000 min
Lab File:   ccv1221a.D
Acq: 21 Dec 2024  05:23 pm

Tgt Ion:142 Resp:  177201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.3 | 71.8 | 107.8 |

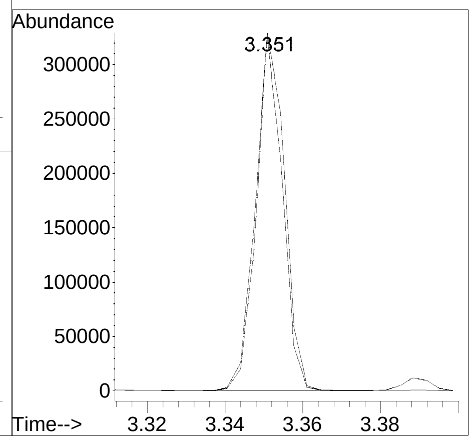


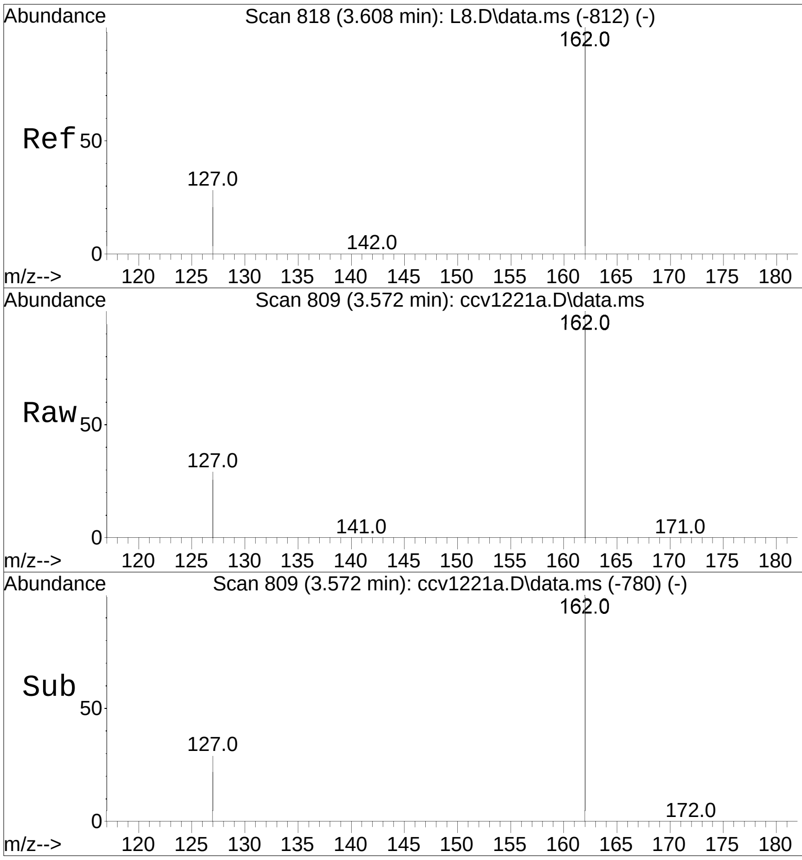



#12
1-Methylnaphthalene
Concen: 961.44 ng/ml
RT: 3.351 min Scan# 744
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:142 Resp: 163199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 95.4 | 74.6 | 111.8 |

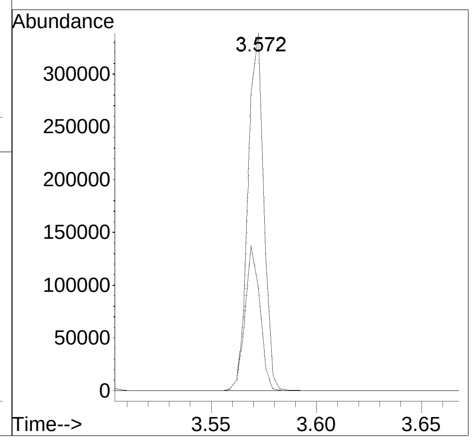


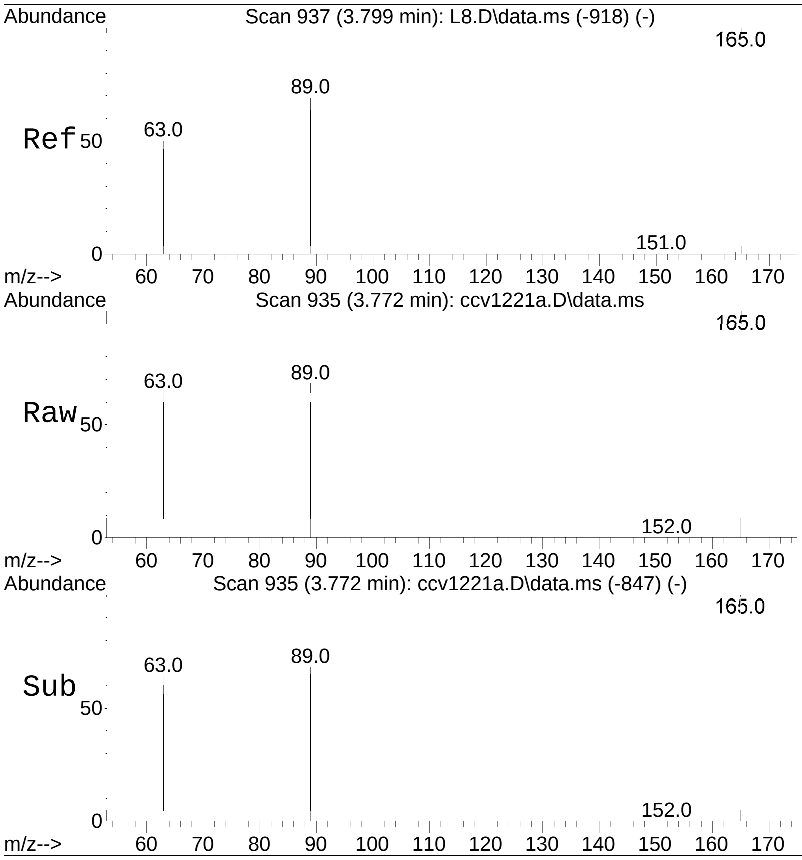



#14
2-Chloronaphthalene
Concen: 950.47 ng/ml
RT: 3.572 min Scan# 809
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:162 Resp: 174054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 38.8 | 26.9 | 40.3 |

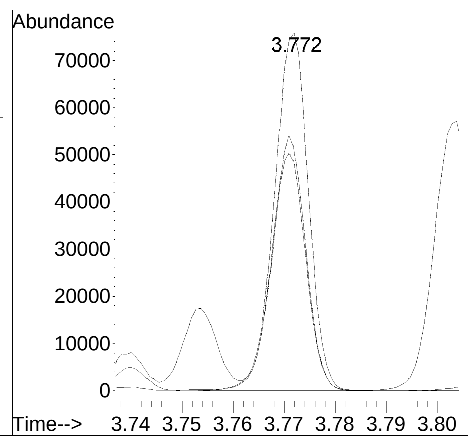


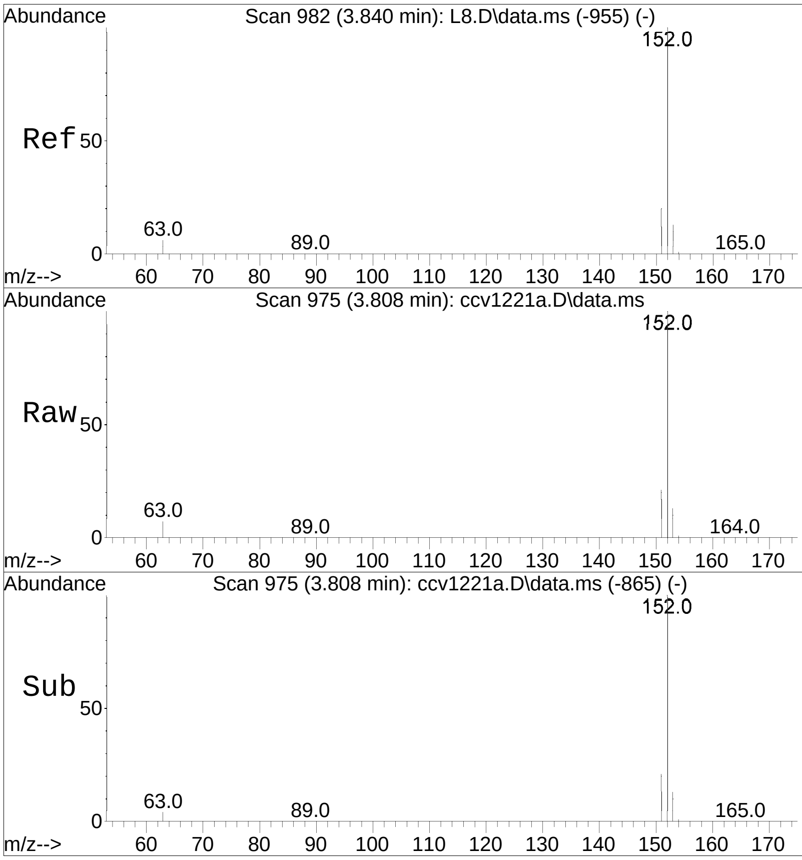



#15
2,6-Dinitrotoluene
Concen: 1422.92 ng/ml
RT: 3.772 min Scan# 935
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:165 Resp: 35268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 70.3 | 44.0 | 66.0# |
| 63 | 65.9 | 47.5 | 71.3 |

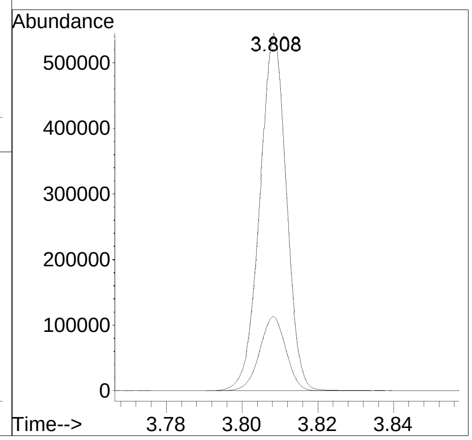


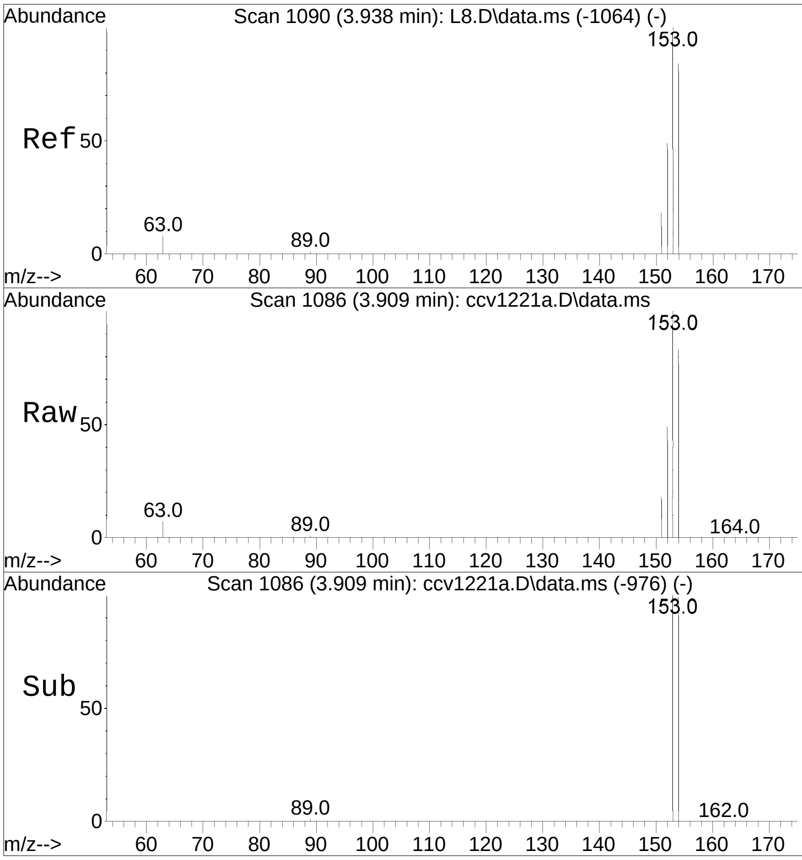



#16
Acenaphthylene
Concen: 971.95 ng/ml
RT: 3.808 min Scan# 975
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:152 Resp: 263488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.6 | 16.2 | 24.2 |

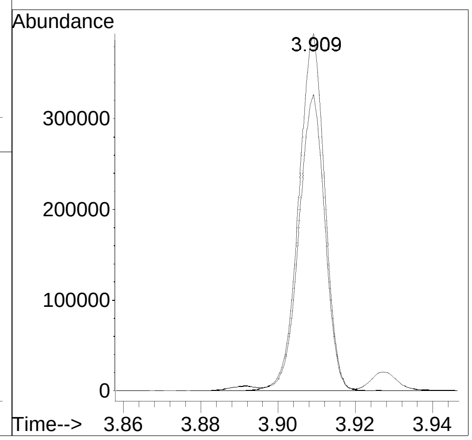


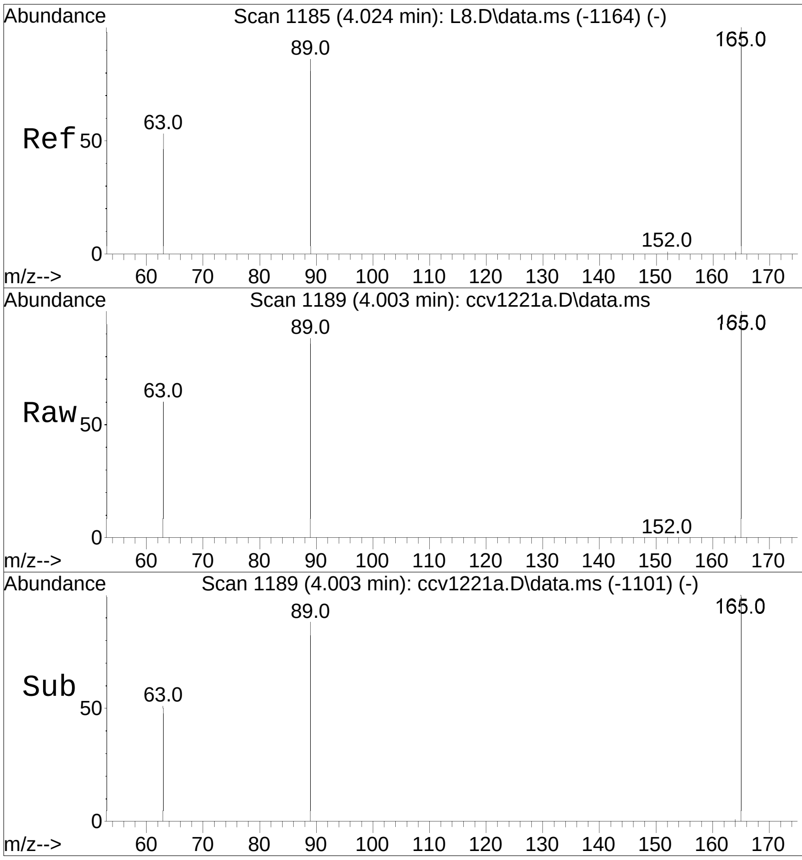



#18
Acenaphthene
Concen:  934.16 ng/ml
RT:   3.909 min  Scan# 1086
Delta R.T.  0.000 min
Lab File:   ccv1221a.D
Acq: 21 Dec 2024  05:23 pm

Tgt Ion:153 Resp:  182988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 153 | 100 | | |
| 154 | 83.2 | 68.2 | 102.4 |

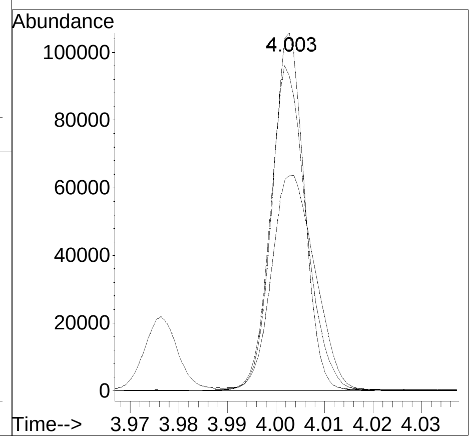


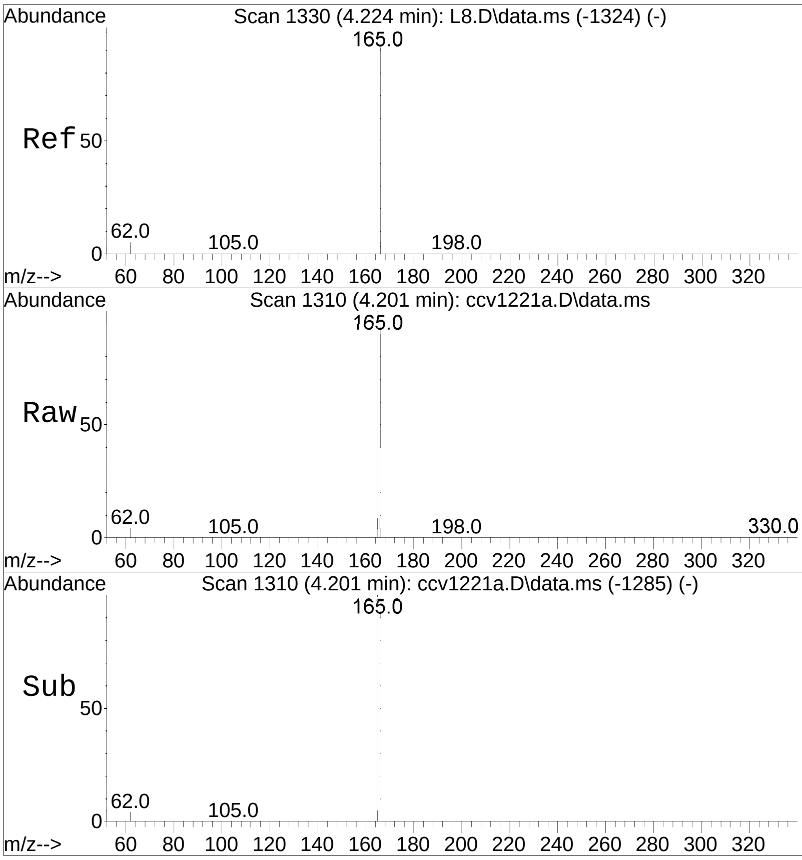



#19
2,4-Dinitrotoluene
Concen: 1290.34 ng/ml
RT: 4.003 min Scan# 1189
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:165 Resp: 48262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 101.6 | 64.6 | 96.8# |
| 63 | 81.2 | 56.5 | 84.7 |

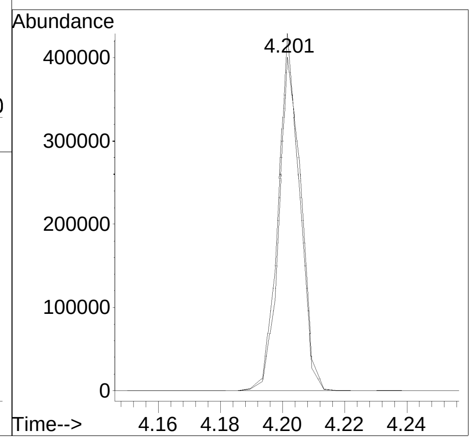


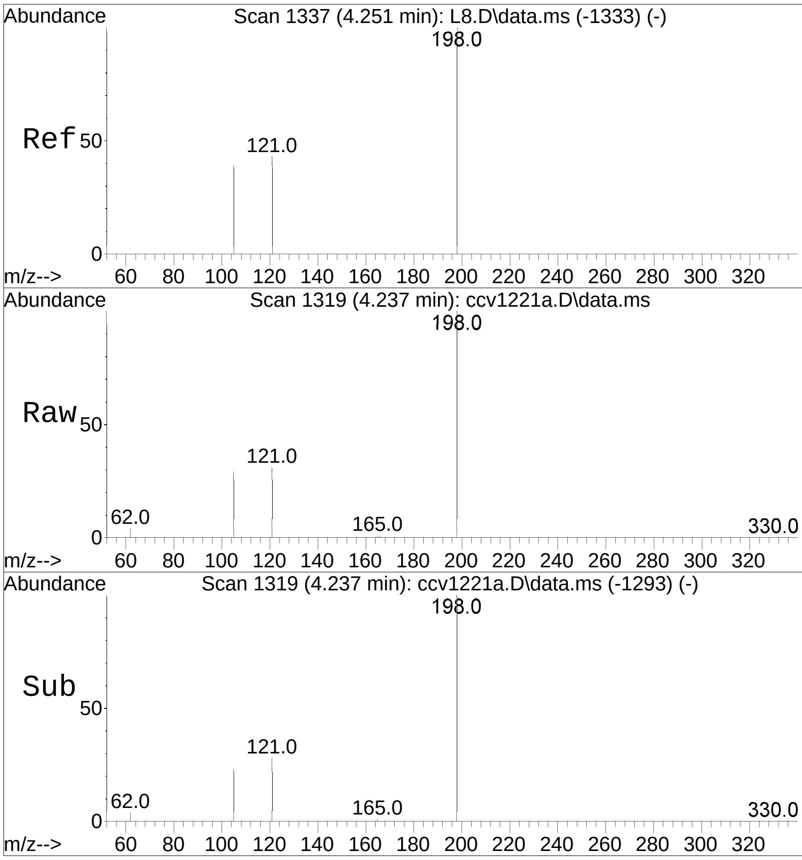



#20
Fluorene
Concen: 953.75 ng/ml
RT: 4.201 min Scan# 1310
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:166 Resp: 199039

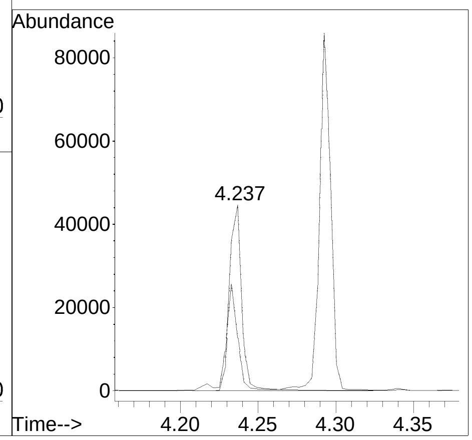
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 102.8 | 80.5 | 120.7 |

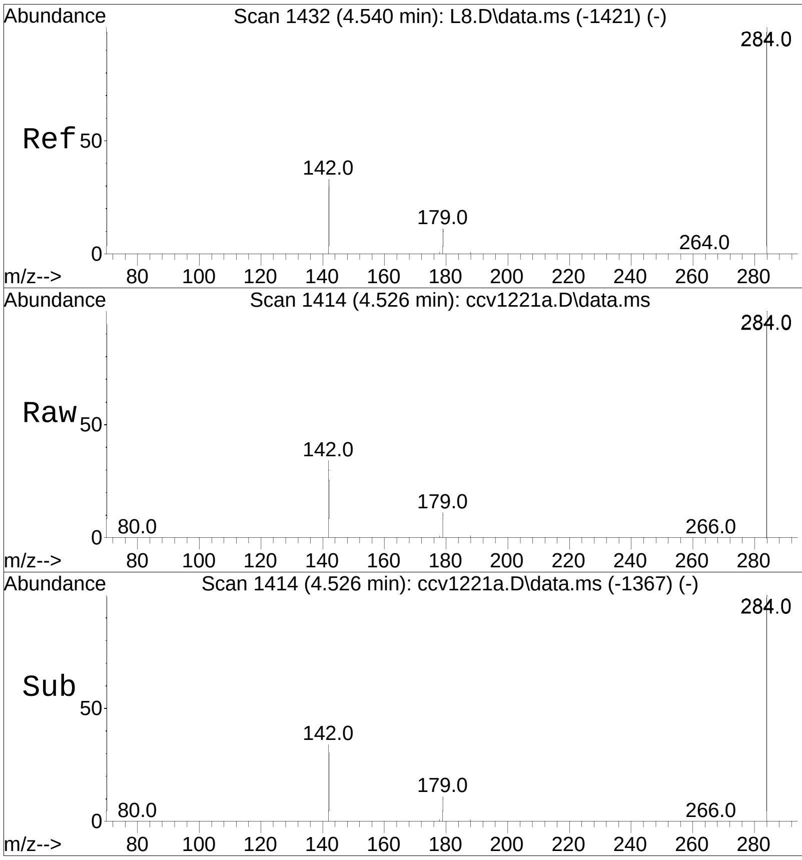





#23
4,6-Dinitro-o-cresol
Concen: 1601.87 ng/ml
RT: 4.237 min Scan# 1319
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

| Tgt | Ion:198 | Resp: | 24329 |
|---|---|---|---|
| Ion | Ratio | Lower | Upper |
| 198 | 100 | | |
| 105 | 54.3 | 31.8 | 47.6# |

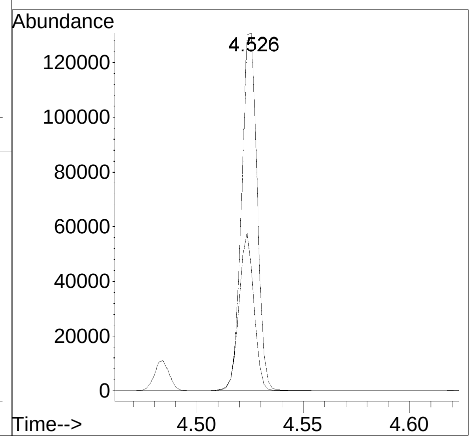


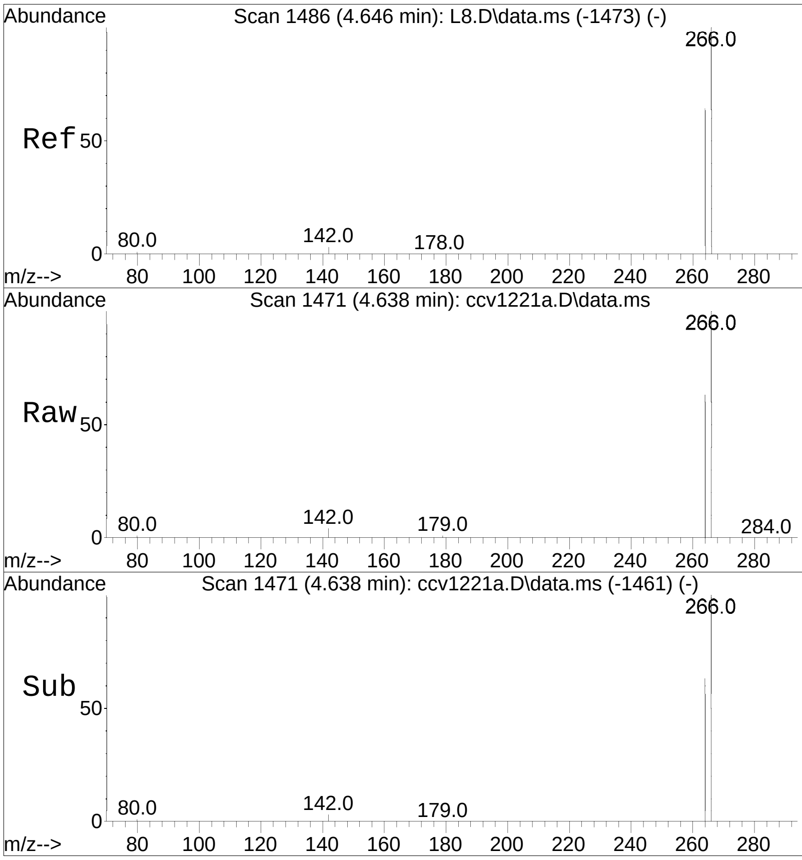



#24
Hexachlorobenzene
Concen: 845.00 ng/ml
RT: 4.526 min Scan# 1414
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:284 Resp: 66339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 42.3 | 28.4 | 42.6 |

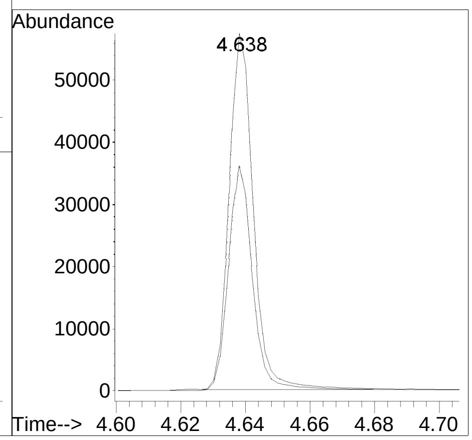


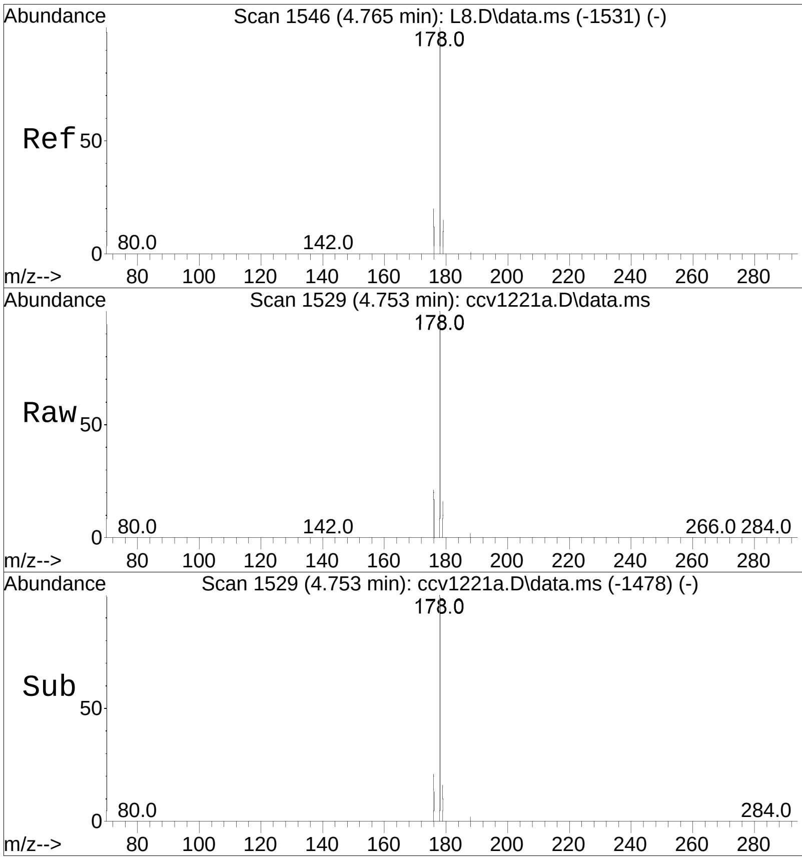



#25
Pentachlorophenol
Concen: 1014.46 ng/ml
RT: 4.638 min Scan# 1471
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:266 Resp: 29624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.1 | 50.6 | 76.0 |

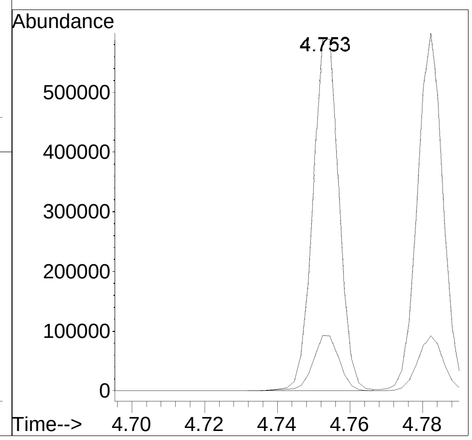


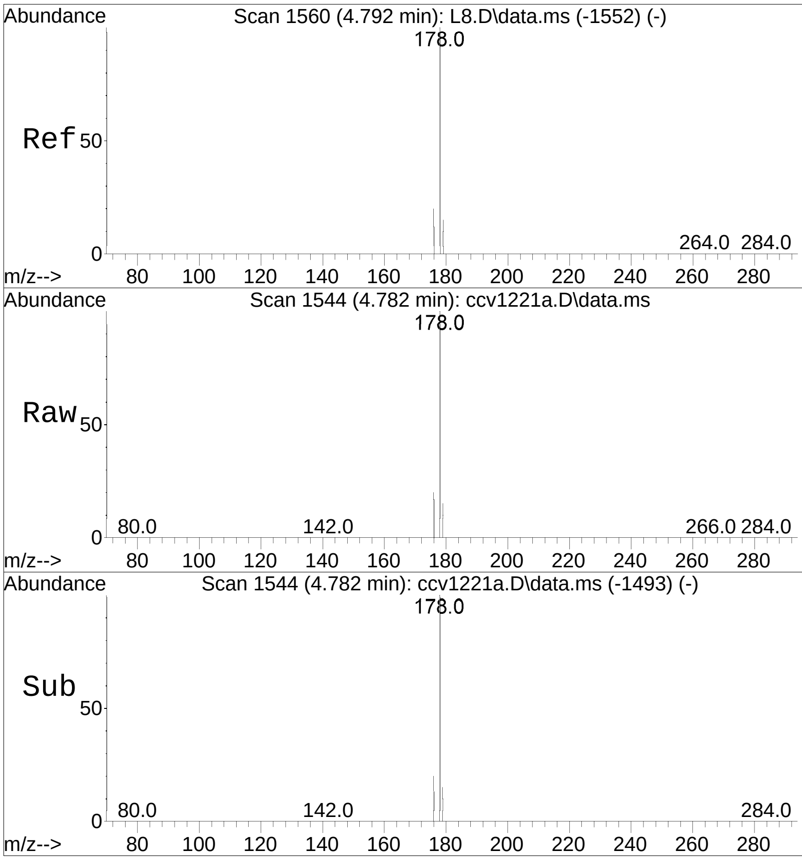



#26
Phenanthrene
Concen: 910.90 ng/ml
RT: 4.753 min Scan# 1529
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:178 Resp: 294868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.8 | 12.5 | 18.7 |

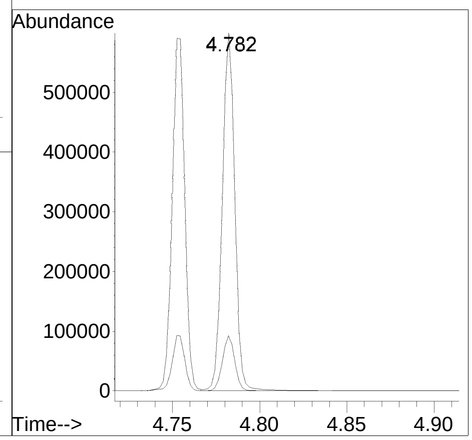


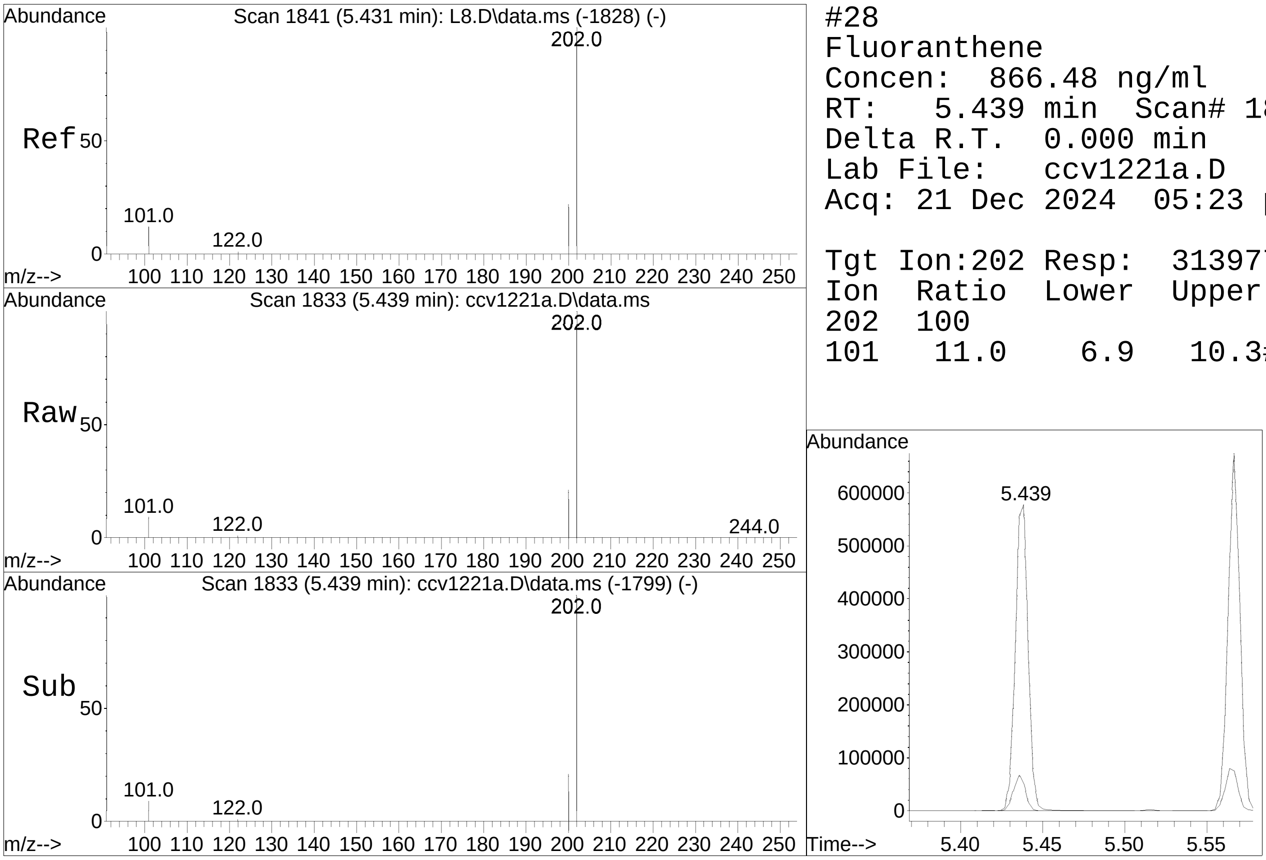



#27
Anthracene
Concen: 936.76 ng/ml
RT: 4.782 min Scan# 1544
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:178 Resp: 297591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.2 | 12.5 | 18.7 |

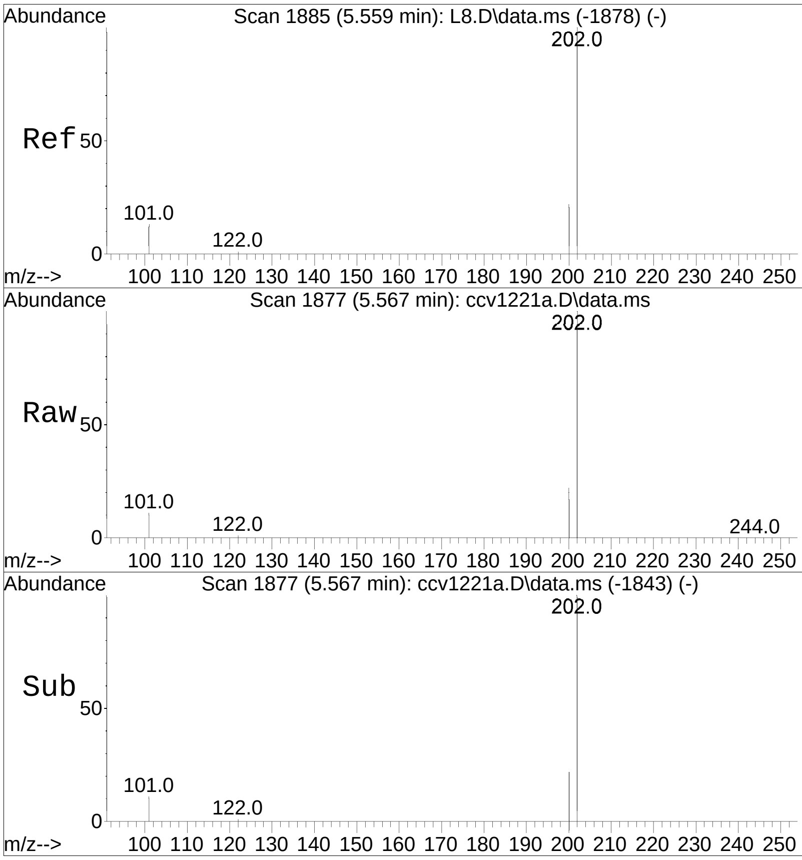





#28
Fluoranthene
Concen: 866.48 ng/ml
RT: 5.439 min Scan# 1833
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:202 Resp: 313977

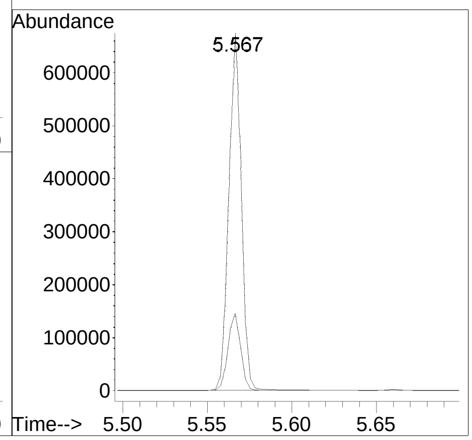
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.0 | 6.9 | 10.3# |

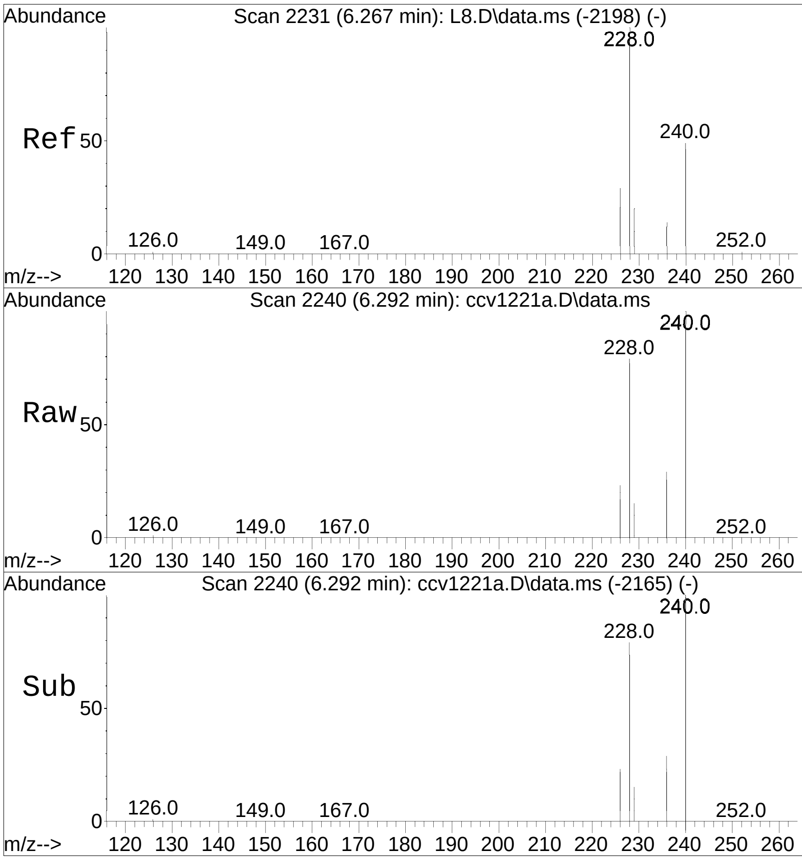



#29
Pyrene
Concen: 883.57 ng/ml
RT: 5.567 min Scan# 1877
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:202 Resp: 340108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.2 | 17.4 | 26.0 |

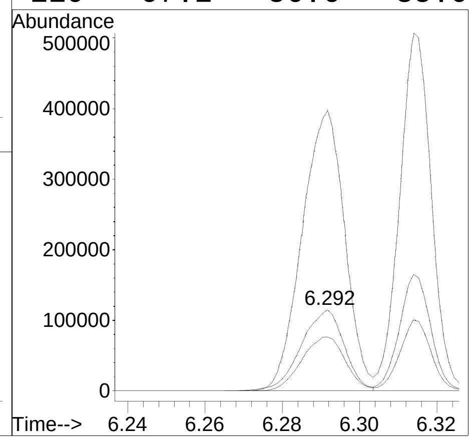


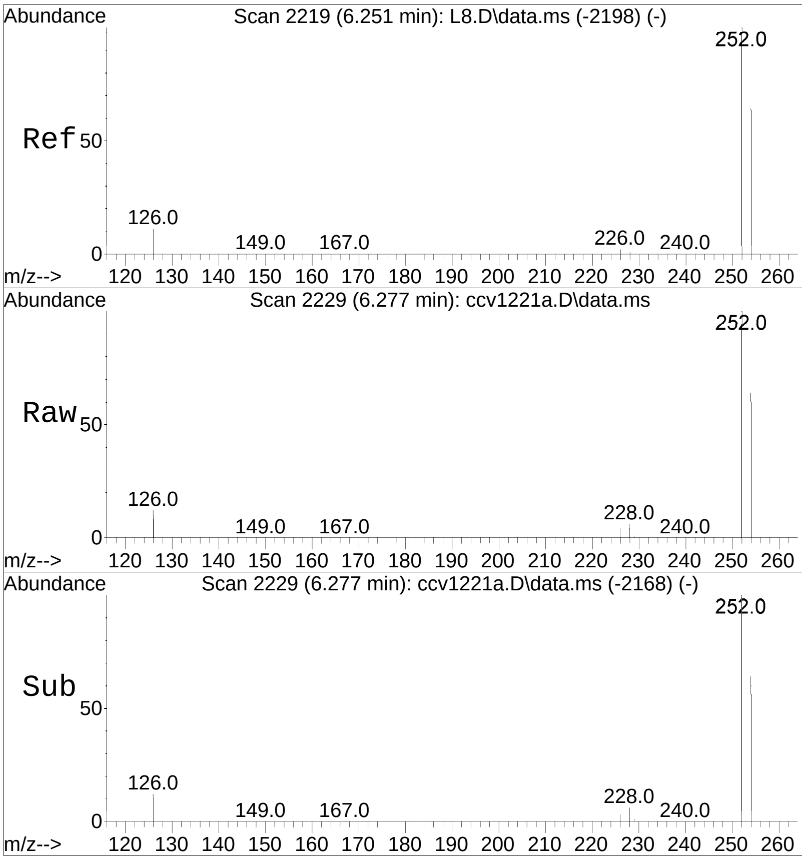



#32
Benzo[a]anthracene
Concen: 901.12 ng/ml
RT: 6.292 min Scan# 2240
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:226 Resp: 88433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 226 | 100 | | |
| 227 | 0.0 | 0.0 | 0.0 |
| 228 | 342.8 | 284.1 | 426.1 |
| 229 | 67.2 | 56.6 | 85.0 |

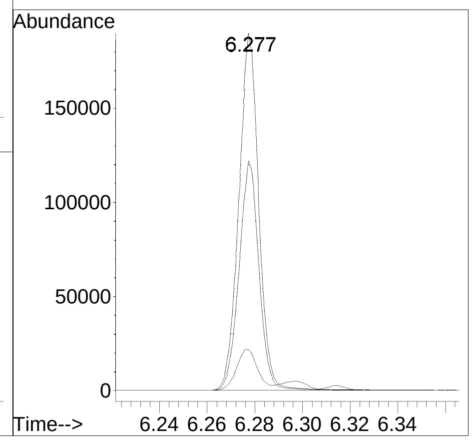


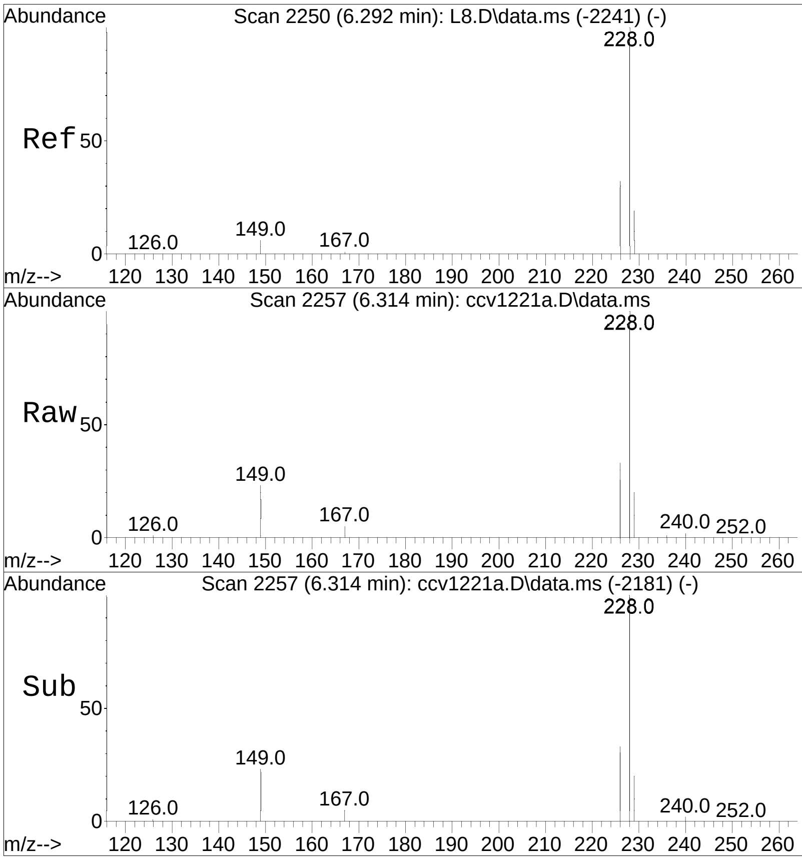



#33
3,3'-Dichlorobenzidine
Concen: 1043.99 ng/ml
RT: 6.277 min Scan# 2229
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:252 Resp: 109212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 126 | 12.4 | 11.3 | 16.9 |
| 254 | 64.3 | 51.4 | 77.0 |

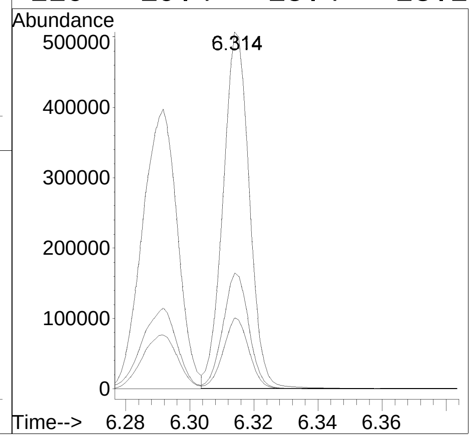


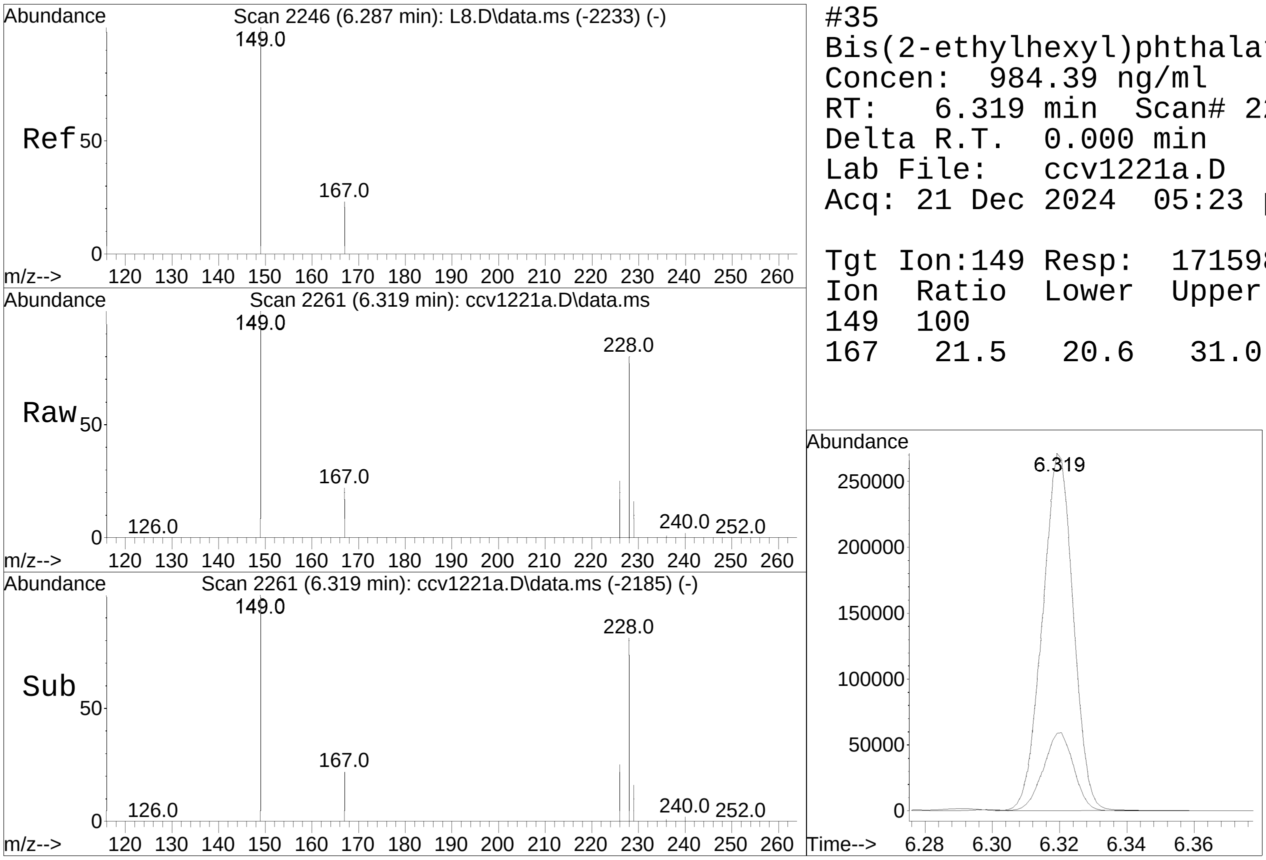



#34
Chrysene
Concen: 954.95 ng/ml
RT: 6.314 min Scan# 2257
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:228 Resp: 288674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.1 | 24.6 | 36.8 |
| 227 | 0.0 | 0.0 | 0.0 |
| 229 | 19.4 | 15.4 | 23.2 |

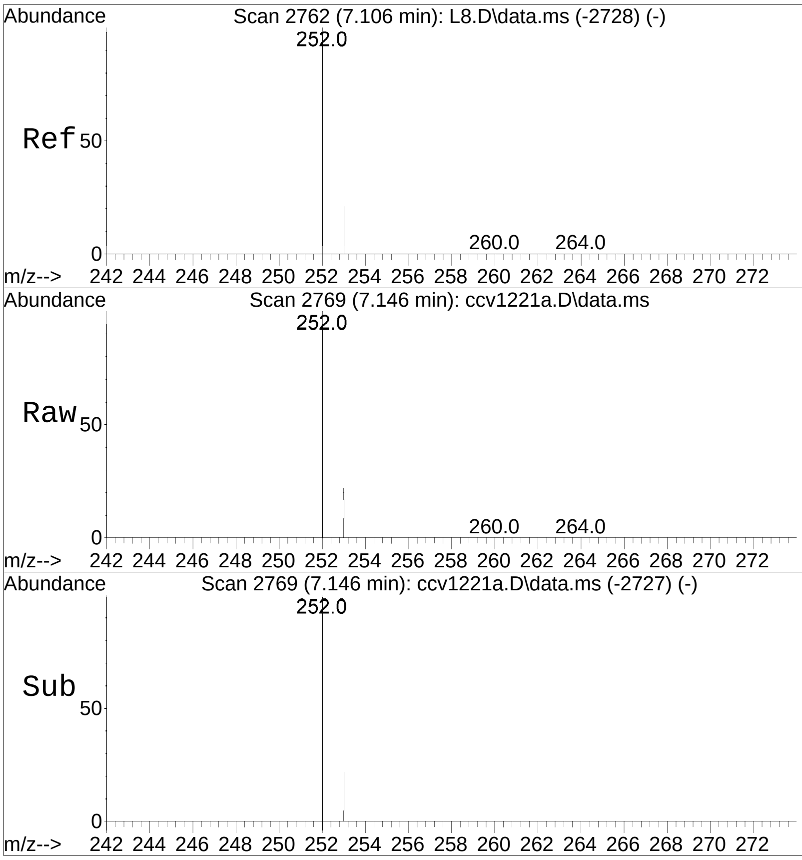





#35
Bis(2-ethylhexyl)phthalate
Concen: 984.39 ng/ml
RT: 6.319 min Scan# 2261
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

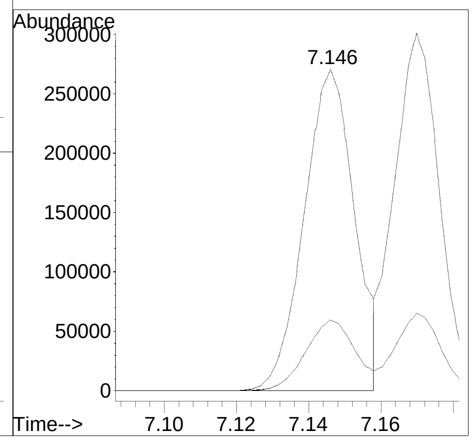
Tgt Ion:149 Resp: 171598

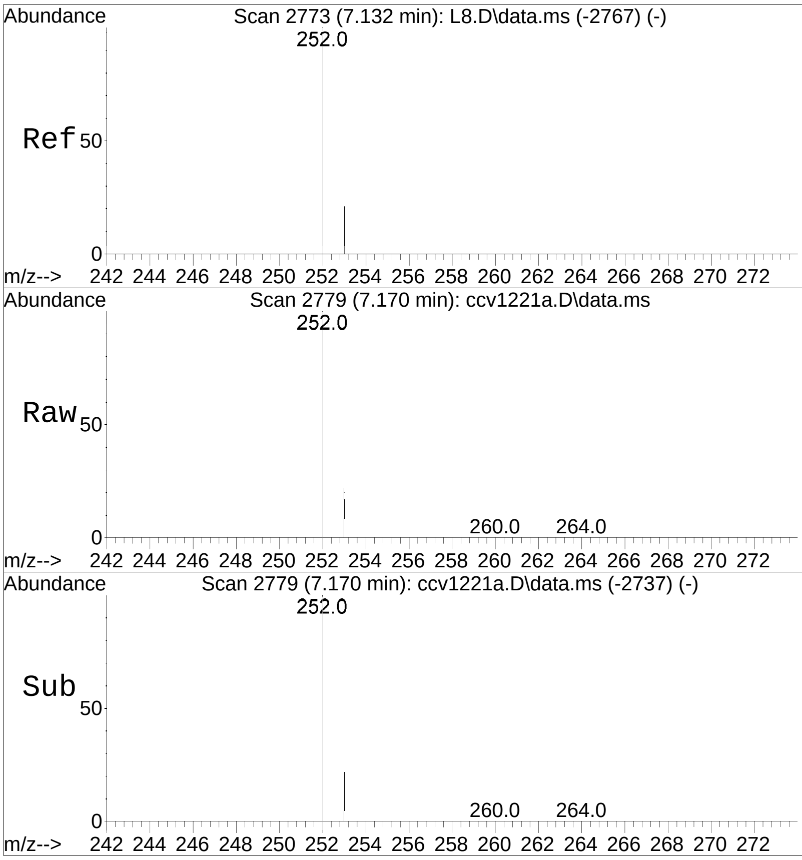
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 21.5 | 20.6 | 31.0 |




#37
Benzo[b]fluoranthene
Concen: 1086.07 ng/ml
RT: 7.146 min Scan# 2769
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

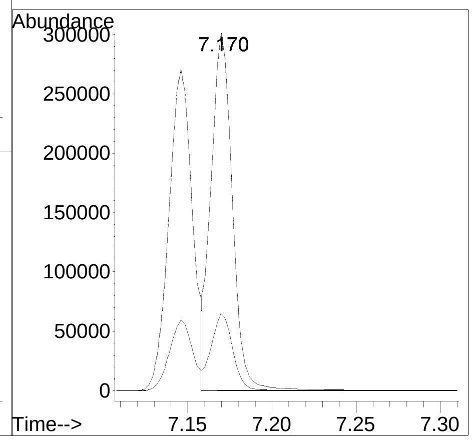
| Tgt | Ion:252 | Resp: | 261355 |
|---|---|---|---|
| Ion | Ratio | Lower | Upper |
| 252 | 100 | | |
| 253 | 21.7 | 17.6 | 26.4 |

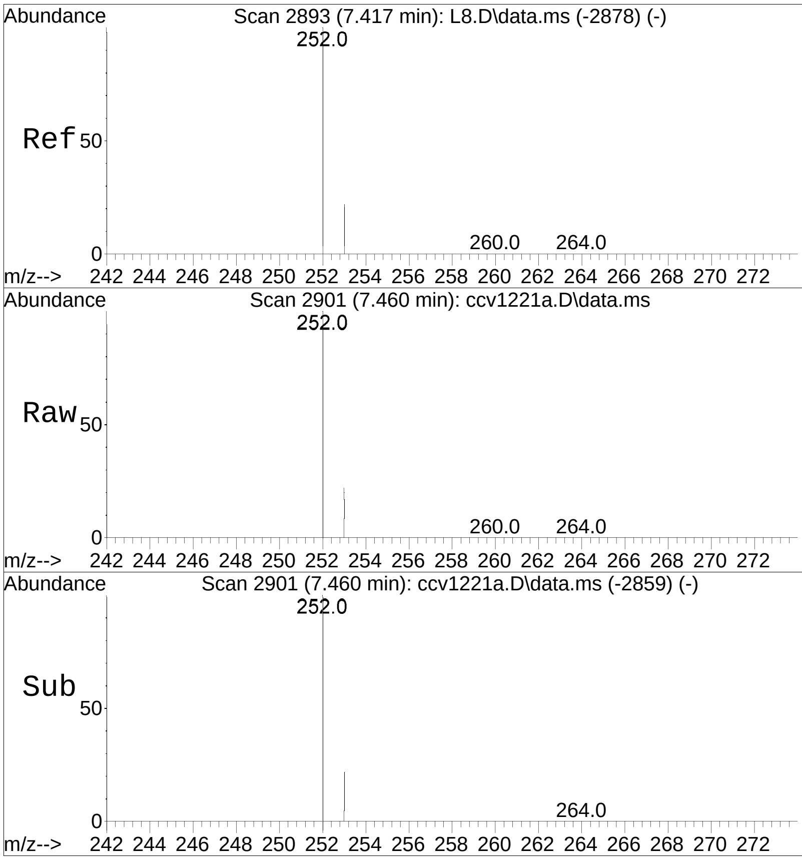





#38
Benzo[k]fluoranthene
Concen: 1040.08 ng/ml
RT: 7.170 min Scan# 2779
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

| Tgt | Ion:252 | Resp: | 265371 |
|---|---|---|---|
| Ion | Ratio | Lower | Upper |
| 252 | 100 | | |
| 253 | 21.8 | 17.6 | 26.4 |

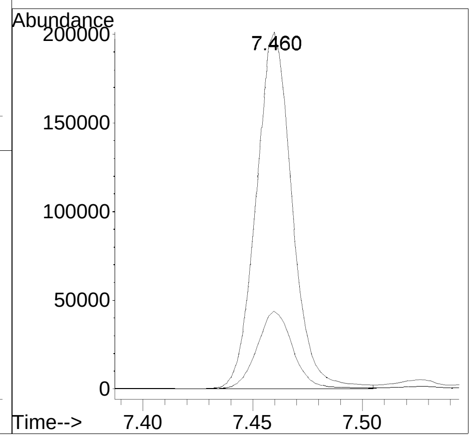


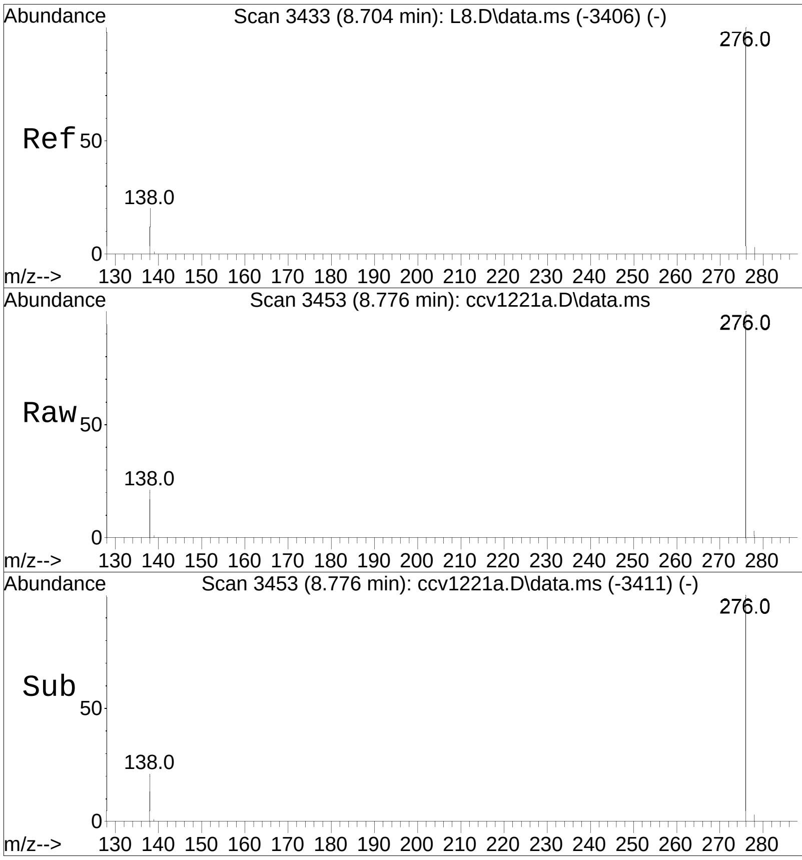



#39
Benzo[a]pyrene
Concen: 1068.53 ng/ml
RT: 7.460 min Scan# 2901
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:252 Resp: 227170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.7 | 17.5 | 26.3 |

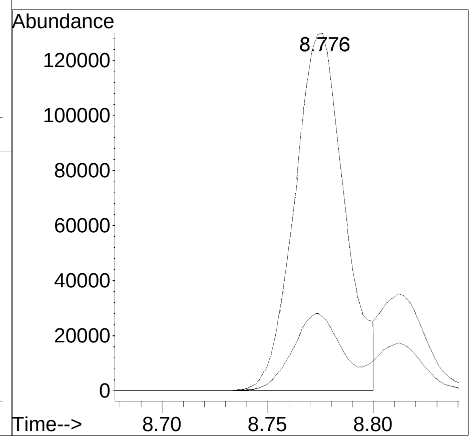


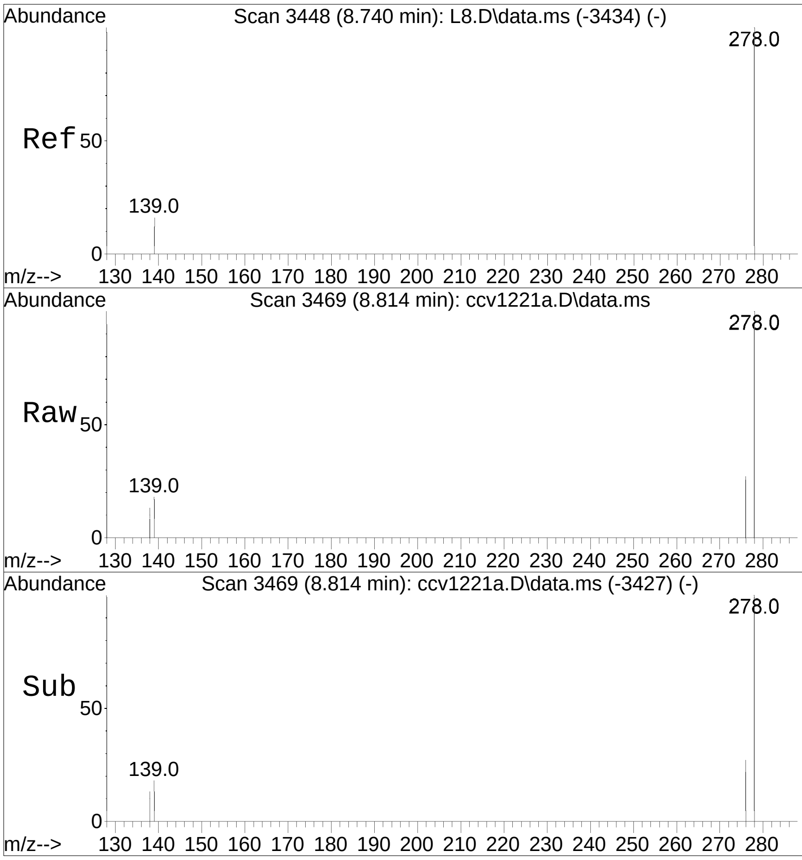



#40
Indeno[1,2,3-cd]pyrene
Concen: 1067.68 ng/ml
RT: 8.776 min Scan# 3453
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:276 Resp: 211616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 20.8 | 11.8 | 17.6# |

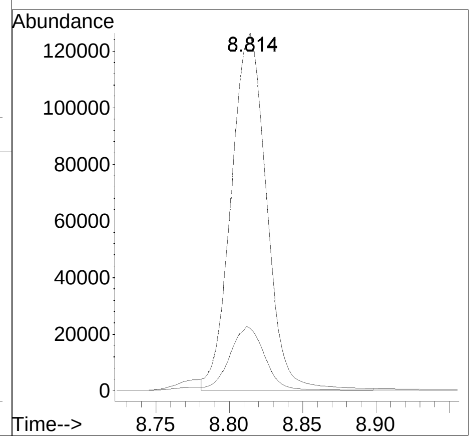


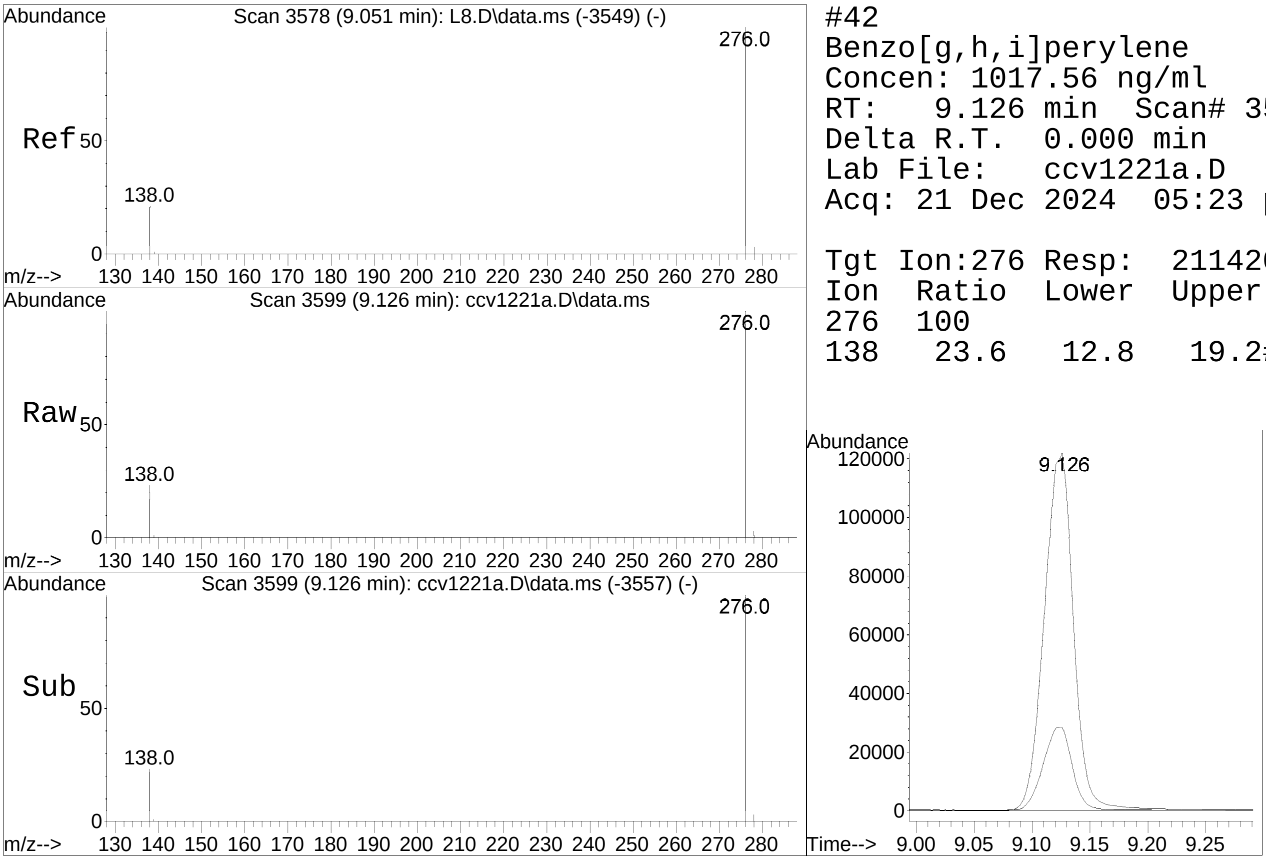



#41
Dibenzo[a,h]anthracene
Concen: 1044.67 ng/ml M6
RT: 8.814 min Scan# 3469
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

Tgt Ion:278 Resp: 210774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 18.5 | 9.8 | 14.8# |






#42
Benzo[g,h,i]perylene
Concen: 1017.56 ng/ml
RT: 9.126 min Scan# 3599
Delta R.T. 0.000 min
Lab File: ccv1221a.D
Acq: 21 Dec 2024 05:23 pm

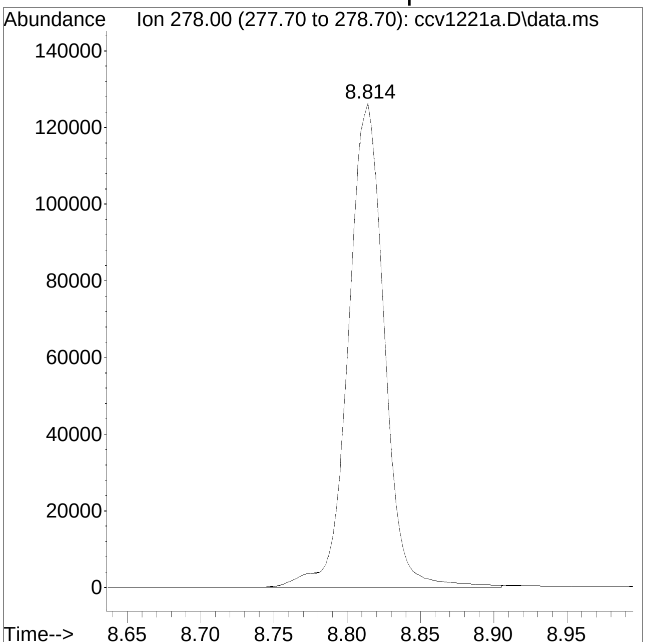
Tgt Ion:276 Resp: 211420

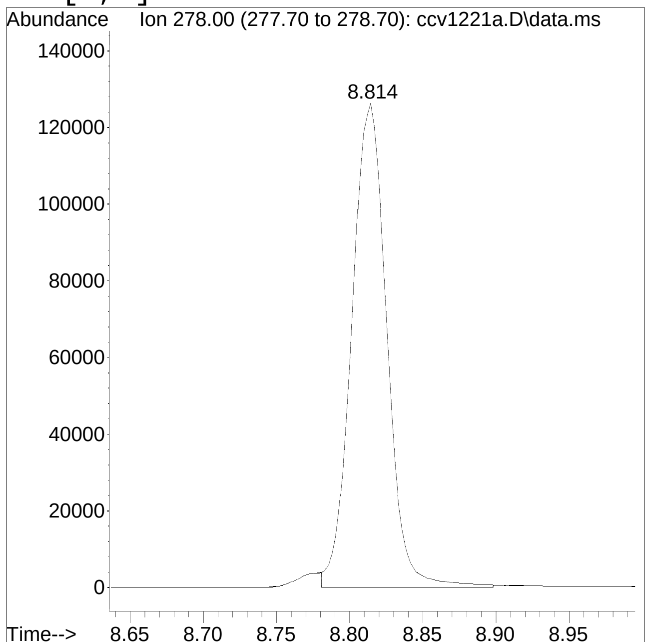
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.6 | 12.8 | 19.2# |

Manual Integration Report

Data Path : I:\8270SIM\SV118\241221aRVQ
Method : SIM-RVT_241025sv118.M
Data File : ccv1221a.D
Operator : SV118:slr
Date Inj'd : 12/21/2024 5:23 pm
Instrument : SV118
Sample : WG2012269-3,32,,ICV 10884
Quant Date : 12/21/2024 5:38 pm

Compound #41: Dibenzo[a,h]anthracene



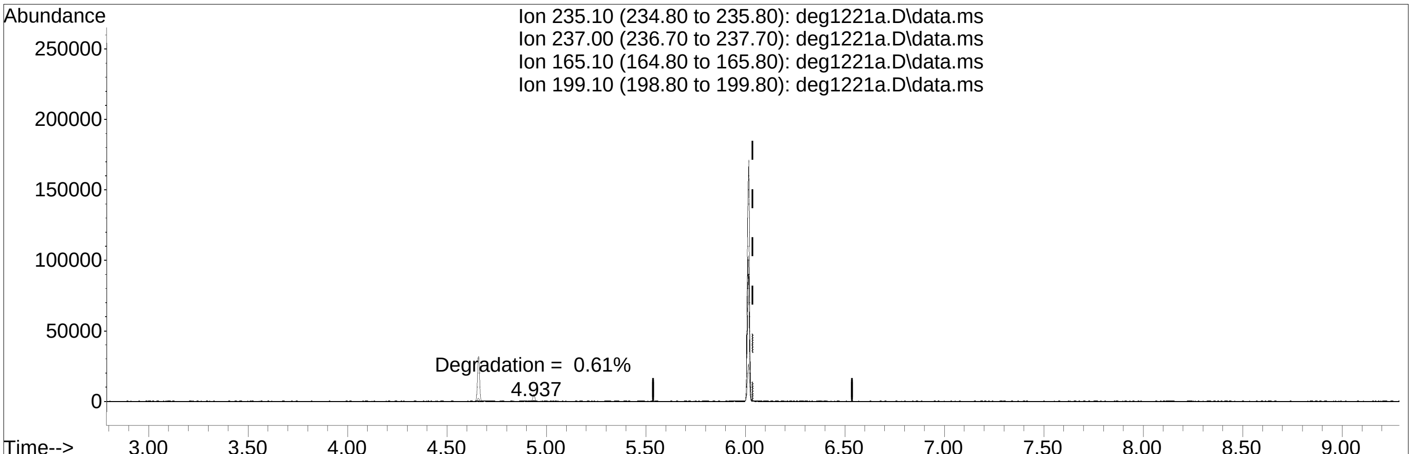

Original Peak Response = 215630
Manual Peak Response = 210774 M6

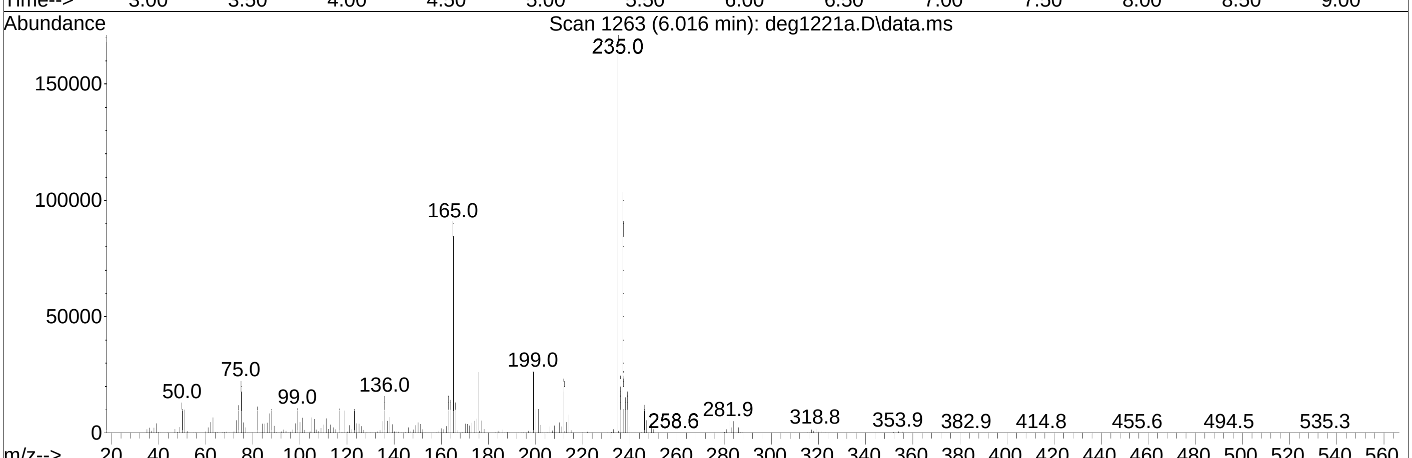
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : deg1221a.D
Acq On : 21 Dec 2024 04:59 pm
Operator : SV118:slr
Sample : WG2012269-2,32,,dftpp SV118 lot #11210
Misc : WG2012269,,ical21646
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 21 17:18:31 2024
Quant Method : I:\8270SIM\SV118\241221aRVT\dftppsv118.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 21 14:32:10 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D




TIC: deg1221a.D\data.ms

**(6) ddt (T)**

**6.016min (-0.022) 19.90**

**response 121317**

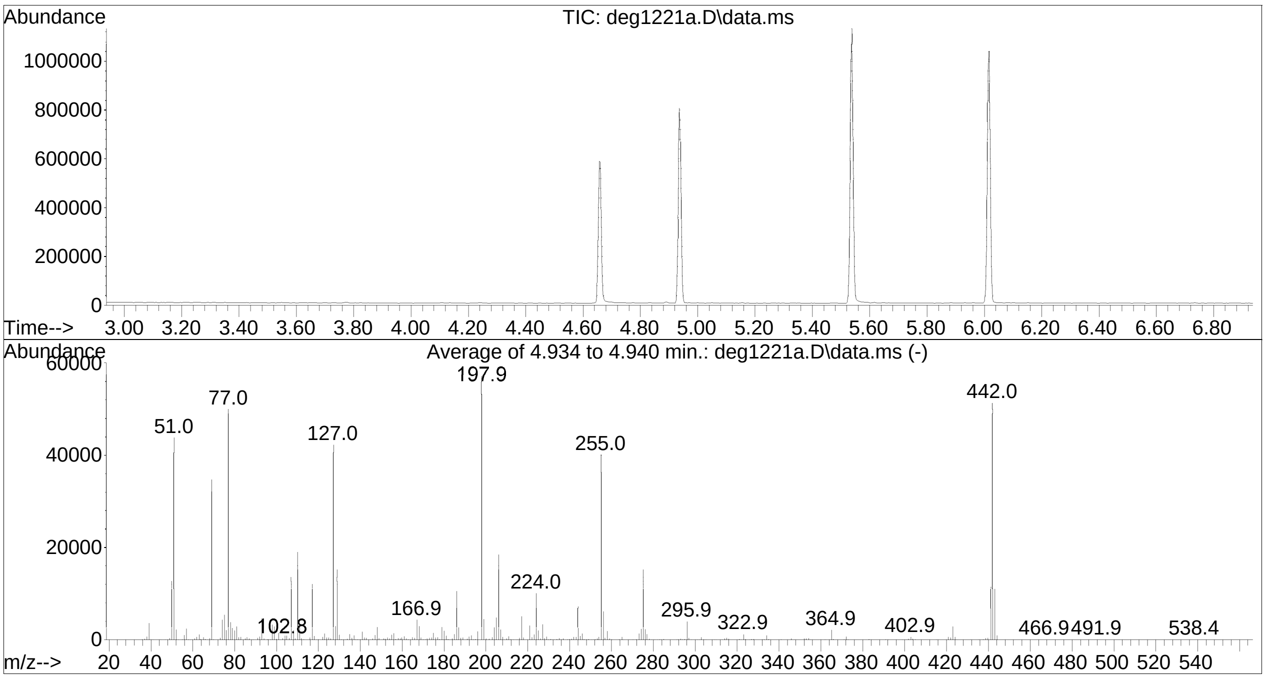
| Ion | Exp% | Act% |
|---|---|---|
| 235.10 | 100.00 | 100.00 |
| 237.00 | 65.60 | 60.93 |
| 165.10 | 53.30 | 54.02 |
| 199.10 | 17.10 | 15.51 |

DFTPP

Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : deg1221a.D
Acq On : 21 Dec 2024 04:59 pm
Operator : SV118:slr
Sample : WG2012269-1,32,,dftpp SV118 lot #11210
Misc : WG2012269,,ical21646
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV118\241221aRVT\SIM-RVT_241025sv118.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Sat Dec 21 17:38:00 2024



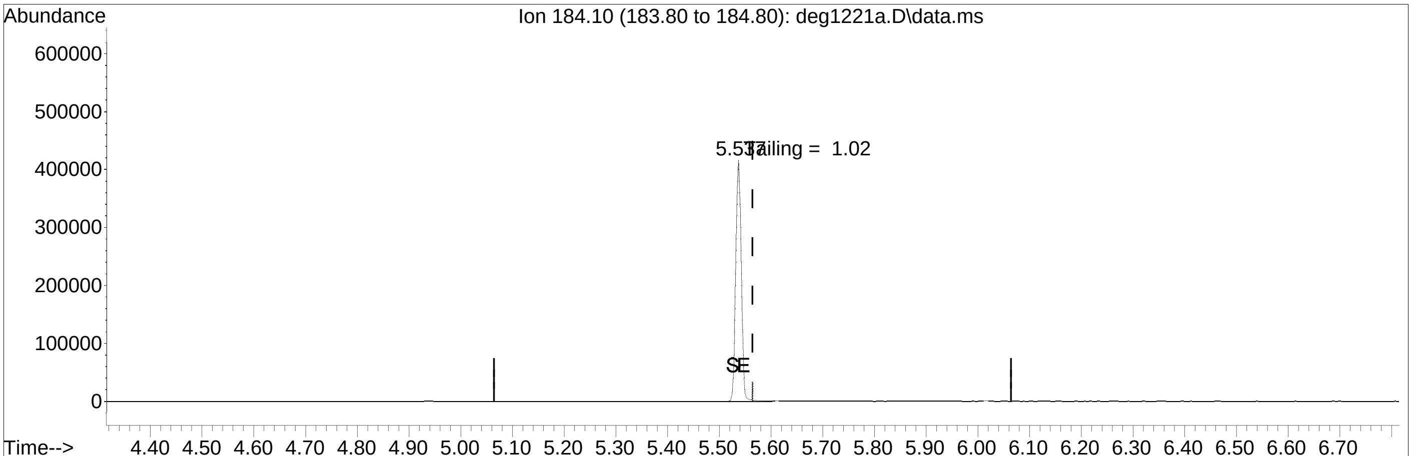

AutoFind: Scans 915, 916, 917; Background Corrected with Scan 908

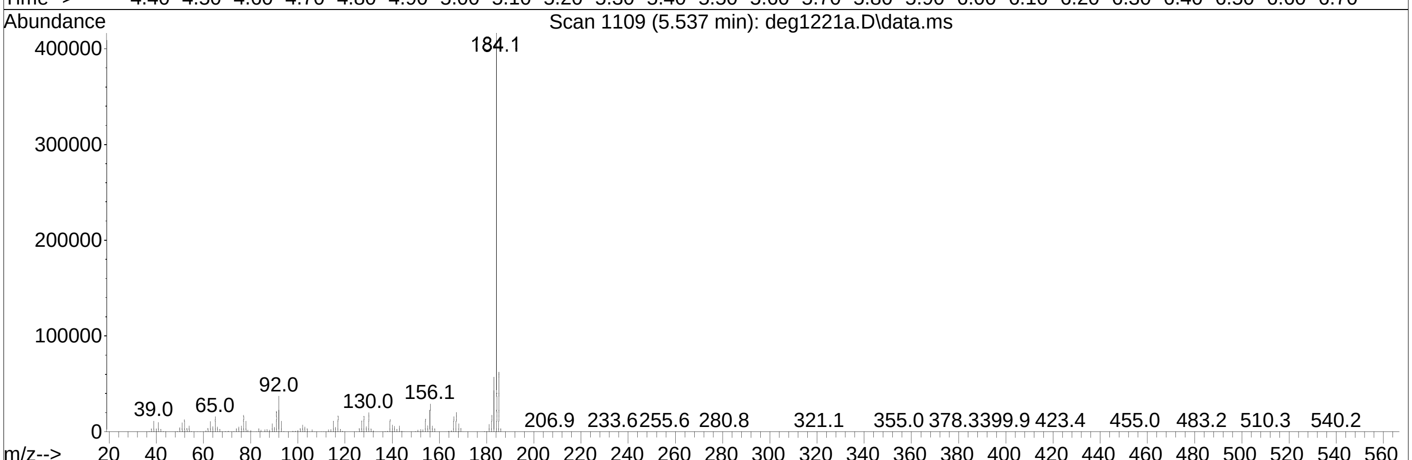
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 76.7 | 43828 | PASS |
| 68 | 69 | 0.00 | 2 | 1.2 | 429 | PASS |
| 69 | 69 | 100 | 100 | 100.0 | 34703 | PASS |
| 70 | 69 | 0.00 | 2 | 0.4 | 149 | PASS |
| 127 | 198 | 10 | 80 | 74.0 | 42315 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 57157 | PASS |
| 199 | 198 | 5 | 9 | 7.9 | 4499 | PASS |
| 275 | 198 | 10 | 60 | 26.6 | 15212 | PASS |
| 365 | 198 | 1 | 100 | 3.8 | 2168 | PASS |
| 441 | 442 | 0.01 | 24 | 22.2 | 11424 | PASS |
| 442 | 198 | 50 | 100 | 89.9 | 51373 | PASS |
| 443 | 442 | 15 | 24 | 21.4 | 10973 | PASS |

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV118\241221aRVT\
Data File : deg1221a.D
Acq On : 21 Dec 2024 04:59 pm
Operator : SV118:slr
Sample : WG2012269-4,32,,dftpp SV118 lot #11210
Misc : WG2012269,,ical21646
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 21 17:18:31 2024
Quant Method : I:\8270SIM\SV118\241221aRVT\dftppsv118.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 21 14:32:10 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D




TIC: deg1221a.D\data.ms

**(3) benzidine (T)**

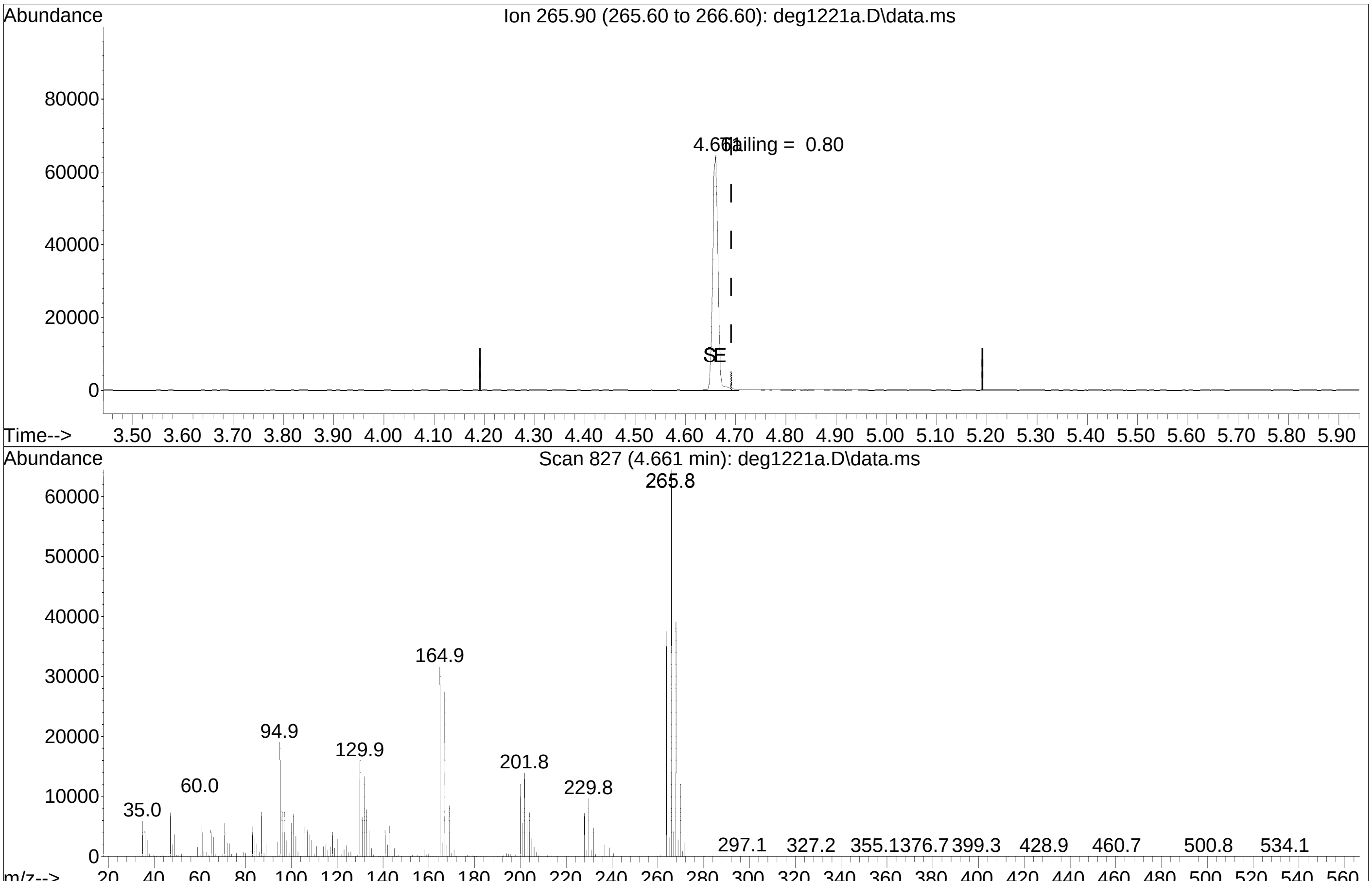
**5.537min (-0.028) 29.15**

**response 296787**

| 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\241221aRVT\
Data File : deg1221a.D
Acq On    : 21 Dec 2024  04:59 pm
Operator  : SV118:slr
Sample    : WG2012269-5,32,,dftpp SV118 lot #11210
Misc      : WG2012269,,ical21646
ALS Vial  : 48   Sample Multiplier: 1

Quant Time: Dec 21 17:18:31 2024
Quant Method : I:\8270SIM\SV118\241221aRVT\dftppsv118.m
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 21 14:32:10 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D
```




TIC: deg1221a.D\data.ms

**(1) pentachlorophenol (T)**

**4.661min (-0.031) 21.80**

**response 45783**

| Ion | Exp% | Act% |
|---|---|---|
| 265.90 | 100.00 | 100.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Calibration Verification Summary
# Form 7
# Semivolatiles

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : SV118 | Calibration Date | : 12/21/24 17:23 |
| Lab File ID | : CCV1221A | Init. Calib. Date(s) | : 10/25/24 10/25/24 |
| Sample No | : WG2012269-3 | Init. Calib. Times | : 16:43 19:21 |
| Channel | : | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 1 | 1 | .01 | 0 | 20 | 67 | 0 |
| 2-Fluorophenol | 1.131 | 1.108 | .01 | 2 | 20 | 67 | 0 |
| Phenol-d6 | 1.39 | 1.331 | .01 | 4.2 | 20 | 65 | 0 |
| Bis(2-chloroethyl)ether | 1000 | 979.137 | .01 | 2.1 | 20 | 65 | 0 |
| n-nitrosodi-n-propylamine | 0.879 | 0.768 | .01 | 12.6 | 20 | 59 | 0 |
| Hexachloroethane | 0.502 | 0.533 | .01 | -6.2 | 20 | 71 | 0 |
| Nitrobenzene-d5 | 0.897 | 1.165 | .01 | -29.9* | 20 | 83 | 0 |
| Naphthalene-d8 | 1 | 1 | .01 | 0 | 20 | 69 | 0 |
| Naphthalene | 1.053 | 0.975 | .01 | 7.4 | 20 | 66 | 0 |
| Hexachlorobutadiene | 0.187 | 0.169 | .01 | 9.6 | 20 | 63 | 0 |
| 2-Methylnaphthalene | 0.674 | 0.655 | .01 | 2.8 | 20 | 67 | 0 |
| 1-Methylnaphthalene | 0.627 | 0.603 | .01 | 3.8 | 20 | 67 | 0 |
| 2-Fluorobiphenyl | 0.769 | 0.742 | .01 | 3.5 | 20 | 68 | 0 |
| 2-Chloronaphthalene | 0.677 | 0.643 | .01 | 5 | 20 | 66 | 0 |
| 2,6-Dinitrotoluene | 0.092 | 0.13 | .01 | -41.3* | 20 | 93 | 0 |
| Acenaphthylene | 1.002 | 0.974 | .01 | 2.8 | 20 | 65 | 0 |
| Acenaphthene-d10 | 1 | 1 | .01 | 0 | 20 | 69 | 0 |
| Acenaphthene | 1.308 | 1.222 | .01 | 6.6 | 20 | 67 | 0 |
| 2,4-Dinitrotoluene | 1000 | 1290.337 | .01 | -29* | 20 | 97 | 0 |
| Fluorene | 1.393 | 1.329 | .01 | 4.6 | 20 | 66 | 0 |
| 2,4,6-Tribromophenol | 0.184 | 0.205 | .01 | -11.4 | 20 | 73 | 0 |
| Phenanthrene-d10 | 1 | 1 | .01 | 0 | 20 | 68 | 0 |
| 4,6-Dinitro-o-cresol | 1000 | 1601.872 | .01 | -60.2* | 20 | 119 | 0 |
| Hexachlorobenzene | 0.263 | 0.223 | .01 | 15.2 | 20 | 58 | 0 |
| Pentachlorophenol | 0.098 | 0.099 | .01 | -1 | 20 | 62 | 0 |
| Phenanthrene | 1.086 | 0.989 | .01 | 8.9 | 20 | 64 | 0 |
| Anthracene | 1.066 | 0.998 | .01 | 6.4 | 20 | 64 | 0 |
| Fluoranthene | 1.216 | 1.053 | .01 | 13.4 | 20 | 60 | 0 |
| Pyrene | 1.291 | 1.141 | .01 | 11.6 | 20 | 61 | 0 |
| 4-Terphenyl-d14 | 0.818 | 0.651 | .01 | 20.4* | 20 | 56 | 0 |
| Chrysene-d12 | 1 | 1 | .01 | 0 | 20 | 59 | 0 |
| Benzo[a]anthracene | 0.392 | 0.353 | .01 | 9.9 | 20 | 58 | 0 |
| 3,3'-Dichlorobenzidine | 0.418 | 0.436 | .01 | -4.3 | 20 | 55 | 0 |
| Chrysene | 1.207 | 1.152 | .01 | 4.6 | 20 | 57 | 0 |
| Bis(2-ethylhexyl)phthalate | 0.696 | 0.685 | .01 | 1.6 | 20 | 55 | 0 |
| Perylene-d12 | 1 | 1 | .01 | 0 | 20 | 52 | 0 |
| Benzo[b]fluoranthene | 1.031 | 1.12 | .01 | -8.6 | 20 | 55 | 0 |
| Benzo[k]fluoranthene | 1.093 | 1.137 | .01 | -4 | 20 | 51 | 0 |
| Benzo[a]pyrene | 0.911 | 0.974 | .01 | -6.9 | 20 | 52 | 0 |
| Indeno[1,2,3-cd]pyrene | 0.849 | 0.907 | .01 | -6.8 | 20 | 49 | 0 |
| Dibenzo[a,h]anthracene | 0.865 | 0.903 | .01 | -4.4 | 20 | 50 | 0 |
| Benzo[g,h,i]perylene | 0.89 | 0.906 | .01 | -1.8 | 20 | 50 | 0 |

* Value outside of QC limits.

# Calibration Verification Summary
# Form 7
# Semivolatiles

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : SV120 | Calibration Date | : 12/22/24 07:17 |
| Lab File ID | : CCV1222 | Init. Calib. Date(s) | : 11/05/24 11/05/24 |
| Sample No | : WG2012326-3 | Init. Calib. Times | : 07:30 09:57 |
| Channel | : | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 1 | 1 | .05 | 0 | 20 | 71 | 0 |
| 2-Fluorophenol | 1.177 | 1.244 | .05 | -5.7 | 20 | 77 | 0 |
| Phenol-d6 | 1.447 | 1.493 | .05 | -3.2 | 20 | 74 | 0 |
| Bis(2-chloroethyl)ether | 1000 | 954.211 | .05 | 4.6 | 20 | 71 | 0 |
| n-nitrosodi-n-propylamine | 0.873 | 0.872 | .05 | 0.1 | 20 | 71 | 0 |
| Hexachloroethane | 0.524 | 0.521 | .05 | 0.6 | 20 | 72 | 0 |
| Nitrobenzene-d5 | 1.277 | 1.296 | .05 | -1.5 | 20 | 72 | 0 |
| Naphthalene-d8 | 1 | 1 | .05 | 0 | 20 | 72 | 0 |
| Naphthalene | 1 | 0.968 | .05 | 3.2 | 20 | 73 | 0 |
| Hexachlorobutadiene | 0.189 | 0.183 | .05 | 3.2 | 20 | 72 | 0 |
| 2-Methylnaphthalene | 0.694 | 0.678 | .05 | 2.3 | 20 | 73 | 0 |
| 1-Methylnaphthalene | 0.639 | 0.621 | .05 | 2.8 | 20 | 74 | 0 |
| 2-Fluorobiphenyl | 0.806 | 0.758 | .05 | 6 | 20 | 73 | 0 |
| 2-Chloronaphthalene | 0.689 | 0.657 | .05 | 4.6 | 20 | 73 | 0 |
| 2,6-Dinitrotoluene | 0.156 | 0.157 | .05 | -0.6 | 20 | 74 | 0 |
| Acenaphthylene | 0.994 | 1.009 | .05 | -1.5 | 20 | 74 | 0 |
| Acenaphthene-d10 | 1 | 1 | .05 | 0 | 20 | 71 | 0 |
| Acenaphthene | 1.207 | 1.183 | .05 | 2 | 20 | 74 | 0 |
| 2,4-Dinitrotoluene | 0.336 | 0.379 | .05 | -12.8 | 20 | 77 | 0 |
| Fluorene | 1.306 | 1.341 | .05 | -2.7 | 20 | 75 | 0 |
| 2,4,6-Tribromophenol | 0.159 | 0.191 | .05 | -20.1* | 20 | 82 | 0 |
| Phenanthrene-d10 | 1 | 1 | .05 | 0 | 20 | 73 | 0 |
| 4,6-Dinitro-o-cresol | 1000 | 905.115 | .05 | 9.5 | 20 | 71 | 0 |
| Hexachlorobenzene | 0.211 | 0.22 | .05 | -4.3 | 20 | 80 | 0 |
| Pentachlorophenol | 1000 | 1100.957 | .05 | -10.1 | 20 | 83 | 0 |
| Phenanthrene | 0.953 | 1.008 | .05 | -5.8 | 20 | 77 | 0 |
| Anthracene | 0.986 | 1.036 | .05 | -5.1 | 20 | 78 | 0 |
| Fluoranthene | 1.098 | 1.196 | .05 | -8.9 | 20 | 84 | 0 |
| Pyrene | 1.132 | 1.263 | .05 | -11.6 | 20 | 86 | 0 |
| 4-Terphenyl-d14 | 0.727 | 0.736 | .05 | -1.2 | 20 | 78 | 0 |
| Chrysene-d12 | 1 | 1 | .05 | 0 | 20 | 80 | 0 |
| Benzo[a]anthracene | 1000 | 1050.859 | .05 | -5.1 | 20 | 85 | 0 |
| 3,3'-Dichlorobenzidine | 0.432 | 0.518 | .05 | -19.9 | 20 | 93 | 0 |
| Chrysene | 1.059 | 1.204 | .05 | -13.7 | 20 | 84 | 0 |
| Bis(2-ethylhexyl)phthalate | 0.708 | 0.783 | .05 | -10.6 | 20 | 87 | 0 |
| Perylene-d12 | 1 | 1 | .05 | 0 | 20 | 81 | 0 |
| Benzo[b]fluoranthene | 1.214 | 1.247 | .05 | -2.7 | 20 | 87 | 0 |
| Benzo[k]fluoranthene | 1.091 | 1.205 | .05 | -10.4 | 20 | 87 | 0 |
| Benzo[a]pyrene | 0.994 | 1.126 | .05 | -13.3 | 20 | 89 | 0 |
| Indeno[1,2,3-cd]pyrene | 1.017 | 1.141 | .05 | -12.2 | 20 | 90 | 0 |
| Dibenzo[a,h]anthracene | 0.955 | 1.063 | .05 | -11.3 | 20 | 90 | 0 |
| Benzo[g,h,i]perylene | 0.987 | 1.079 | .05 | -9.3 | 20 | 88 | 0 |

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\241222RVT\
Data File : ccv1222.D
Acq On : 22 Dec 2024 07:17 am
Operator : SV120:dv
Sample : WG2012326-3,32,,ICV 10884 (1221b)
Misc : WG2012326,,ical21668
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 22 07:37:10 2024
Quant Method : I:\8270SIM\sv120\241222RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 22 07:37:56 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | i | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 71 | 0.00 |
| 2 | s | 2-Fluorophenol | 1.177 | 1.244 | -5.7 | 77 | 0.00 |
| 3 | s | Phenol-d6 | 1.447 | 1.493 | -3.2 | 74 | 0.00 |
| 4 | T | Bis(2-chloroethyl)ether | *1000.000 | 954.211 | 4.6 | 71 | 0.00 |
| 5 | T | n-nitrosodi-n-propylamine | 0.873 | 0.872 | 0.1 | 71 | 0.00 |
| 6 | t | Hexachloroethane | 0.524 | 0.521 | 0.6 | 72 | 0.00 |
| 7 | s | Nitrobenzene-d5 | 1.277 | 1.296 | -1.5 | 72 | 0.00 |
| 8 | i | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 72 | 0.00 |
| 9 | t | Naphthalene | 1.000 | 0.968 | 3.2 | 73 | 0.00 |
| 10 | t | Hexachlorobutadiene | 0.189 | 0.183 | 3.2 | 72 | 0.00 |
| 11 | t | 2-Methylnaphthalene | 0.694 | 0.678 | 2.3 | 73 | 0.00 |
| 12 | t | 1-Methylnaphthalene | 0.639 | 0.621 | 2.8 | 74 | 0.00 |
| 13 | s | 2-Fluorobiphenyl | 0.806 | 0.758 | 6.0 | 73 | 0.00 |
| 14 | t | 2-Chloronaphthalene | 0.689 | 0.657 | 4.6 | 73 | 0.00 |
| 15 | t | 2,6-Dinitrotoluene | 0.156 | 0.157 | -0.6 | 74 | 0.00 |
| 16 | t | Acenaphthylene | 0.994 | 1.009 | -1.5 | 74 | 0.00 |
| 17 | i | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 71 | 0.00 |
| 18 | t | Acenaphthene | 1.207 | 1.183 | 2.0 | 74 | 0.00 |
| 19 | t | 2,4-Dinitrotoluene | 0.336 | 0.379 | -12.8 | 77 | 0.00 |
| 20 | t | Fluorene | 1.306 | 1.341 | -2.7 | 75 | 0.00 |
| 21 | s | 2,4,6-Tribromophenol | 0.159 | 0.191 | -20.1# | 82 | 0.00 |
| 22 | i | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 73 | 0.00 |
| 23 | T | 4,6-Dinitro-o-cresol | *1000.000 | 905.115 | 9.5 | 71 | 0.00 |
| 24 | t | Hexachlorobenzene | 0.211 | 0.220 | -4.3 | 80 | 0.00 |
| 25 | t | Pentachlorophenol | *1000.000 | 1100.957 | -10.1 | 83 | 0.00 |
| 26 | t | Phenanthrene | 0.953 | 1.008 | -5.8 | 77 | 0.00 |
| 27 | t | Anthracene | 0.986 | 1.036 | -5.1 | 78 | 0.00 |
| 28 | t | Fluoranthene | 1.098 | 1.196 | -8.9 | 84 | 0.00 |
| 29 | t | Pyrene | 1.132 | 1.263 | -11.6 | 86 | 0.00 |
| 30 | s | 4-Terphenyl-d14 | 0.727 | 0.736 | -1.2 | 78 | 0.00 |
| 31 | i | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 80 | 0.00 |
| 32 | t | Benzo[a]anthracene | *1000.000 | 1050.859 | -5.1 | 85 | 0.00 |
| 33 | t | 3,3'-Dichlorobenzidine | 0.432 | 0.518 | -19.9 | 93 | 0.00 |
| 34 | t | Chrysene | 1.059 | 1.204 | -13.7 | 84 | 0.00 |
| 35 | T | Bis(2-ethylhexyl)phthalate | 0.708 | 0.783 | -10.6 | 87 | 0.00 |

# Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\241222RVT\
Data File : ccv1222.D
Acq On : 22 Dec 2024 07:17 am
Operator : SV120:dv
Sample : WG2012326-3,32,,ICV 10884 (1221b)
Misc : WG2012326,,ical21668
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 22 07:37:10 2024
Quant Method : I:\8270SIM\sv120\241222RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 22 07:37:56 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 36 | i | Perylene-d12 | 1.000 | 1.000 | 0.0 | 81 | 0.00 |
| 37 | t | Benzo[b]fluoranthene | 1.214 | 1.247 | -2.7 | 87 | 0.00 |
| 38 | t | Benzo[k]fluoranthene | 1.091 | 1.205 | -10.4 | 87 | 0.00 |
| 39 | t | Benzo[a]pyrene | 0.994 | 1.126 | -13.3 | 89 | 0.00 |
| 40 | t | Indeno[1,2,3-cd]pyrene | 1.017 | 1.141 | -12.2 | 90 | 0.00 |
| 41 | t | Dibenzo[a,h]anthracene | 0.955 | 1.063 | -11.3 | 90 | 0.00 |
| 42 | t | Benzo[g,h,i]perylene | 0.987 | 1.079 | -9.3 | 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\sv120\241222RVT\
Data File : ccv1222.D
Acq On    : 22 Dec 2024  07:17 am
Operator  : SV120:dv
Sample    : WG2012326-3,32,,ICV 10884 (1221b)
Misc      : WG2012326,,ical21668
ALS Vial  : 49   Sample Multiplier: 1

Quant Time: Dec 22 07:37:10 2024
Quant Method : I:\8270SIM\sv120\241222RVT\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 22 07:37:56 2024
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      2.297  152    191989   4000.000 ng/ml    0.00
 8) Naphthalene-d8              2.956  136    758028   4000.000 ng/ml    0.00
17) Acenaphthene-d10            3.936  164    435714   4000.000 ng/ml    0.00
22) Phenanthrene-d10            4.780  188    854489   4000.000 ng/ml    0.00
31) Chrysene-d12                6.360  240    780818   4000.000 ng/ml    0.00
36) Perylene-d12                7.609  264    779548   4000.000 ng/ml    0.00

 System Monitoring Compounds
 2) 2-Fluorophenol              1.717  112     59723   1056.829 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   52.84%
 3) Phenol-d6                   2.108   99     71653   1031.907 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   51.60%
 7) Nitrobenzene-d5             2.573   82     62196   1014.618 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =  101.46%
13) 2-Fluorobiphenyl            3.555  172    143701   940.545 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   94.05%
21) 2,4,6-Tribromophenol        4.383  330     20844   1201.732 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   60.09%
30) 4-Terphenyl-d14             5.705  244    157323   1012.543 ng/ml   0.00
   Spiked Amount   2000.000   Range  30 - 130    Recovery   =   50.63%

 Target Compounds                                                  Qvalue
 4) Bis(2-chloroethyl)ether     2.160   93      56415    954.211 ng/ml     98
 5) n-nitrosodi-n-propylamine   2.493   70      41837    999.013 ng/ml     98
 6) Hexachloroethane            2.554  117      24993    994.369 ng/ml     99
 9) Naphthalene                 2.967  128     183386    967.783 ng/ml    100
10) Hexachlorobutadiene         3.037  225      34638    964.709 ng/ml    100
11) 2-Methylnaphthalene         3.346  142     128572    977.327 ng/ml    100
12) 1-Methylnaphthalene         3.402  142     117747    973.082 ng/ml     99
14) 2-Chloronaphthalene         3.618  162     124412    952.671 ng/ml     99
15) 2,6-Dinitrotoluene          3.814  165      29665   1003.577 ng/ml     97
16) Acenaphthylene              3.853  152     191215   1015.558 ng/ml    100
18) Acenaphthene                3.953  153     128909    980.167 ng/ml     92
19) 2,4-Dinitrotoluene          4.042  165      41242   1126.278 ng/ml     97
20) Fluorene                    4.245  166     146075   1026.473 ng/ml     99
23) 4,6-Dinitro-o-cresol        4.273  198      22821    905.115 ng/ml     96
24) Hexachlorobenzene           4.563  284      47033   1042.035 ng/ml    100
25) Pentachlorophenol           4.674  266      27393   1100.957 ng/ml    100
26) Phenanthrene                4.794  178     215353   1057.584 ng/ml    100
27) Anthracene                  4.821  178     221256   1050.215 ng/ml    100
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241222RVT\
Data File : ccv1222.D
Acq On : 22 Dec 2024 07:17 am
Operator : SV120:dv
Sample : WG2012326-3,32,,ICV 10884 (1221b)
Misc : WG2012326,,ical21668
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 22 07:37:10 2024
Quant Method : I:\8270SIM\sv120\241222RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 22 07:37:56 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 28) Fluoranthene | 5.478 | 202 | 255505 | 1089.420 ng/ml | 99 |
| 29) Pyrene | 5.610 | 202 | 269701 | 1115.197 ng/ml | 100 |
| 32) Benzo[a]anthracene | 6.353 | 228 | 251922 | 1050.859 ng/ml | 98 |
| 33) 3,3'-Dichlorobenzidine | 6.336 | 252 | 101065 | 1197.414 ng/ml | 99 |
| 34) Chrysene | 6.375 | 228 | 235020 | 1136.945 ng/ml | 100 |
| 35) Bis(2-ethylhexyl)phtha... | 6.378 | 149 | 152751 | 1105.514 ng/ml | 100 |
| 37) Benzo[b]fluoranthene | 7.219 | 252 | 242987 | 1027.255 ng/ml | 100 |
| 38) Benzo[k]fluoranthene | 7.243 | 252 | 234885 | 1104.587 ng/ml | 100 |
| 39) Benzo[a]pyrene | 7.539 | 252 | 219501 | 1132.930 ng/ml | 100 |
| 40) Indeno[1,2,3-cd]pyrene | 8.862 | 276 | 222394 | 1122.563 ng/ml | 98 |
| 41) Dibenzo[a,h]anthracene | 8.900 | 278 | 207132M6 | 1112.920 ng/ml | |
| 42) Benzo[g,h,i]perylene | 9.214 | 276 | 210191 | 1092.402 ng/ml | 97 |

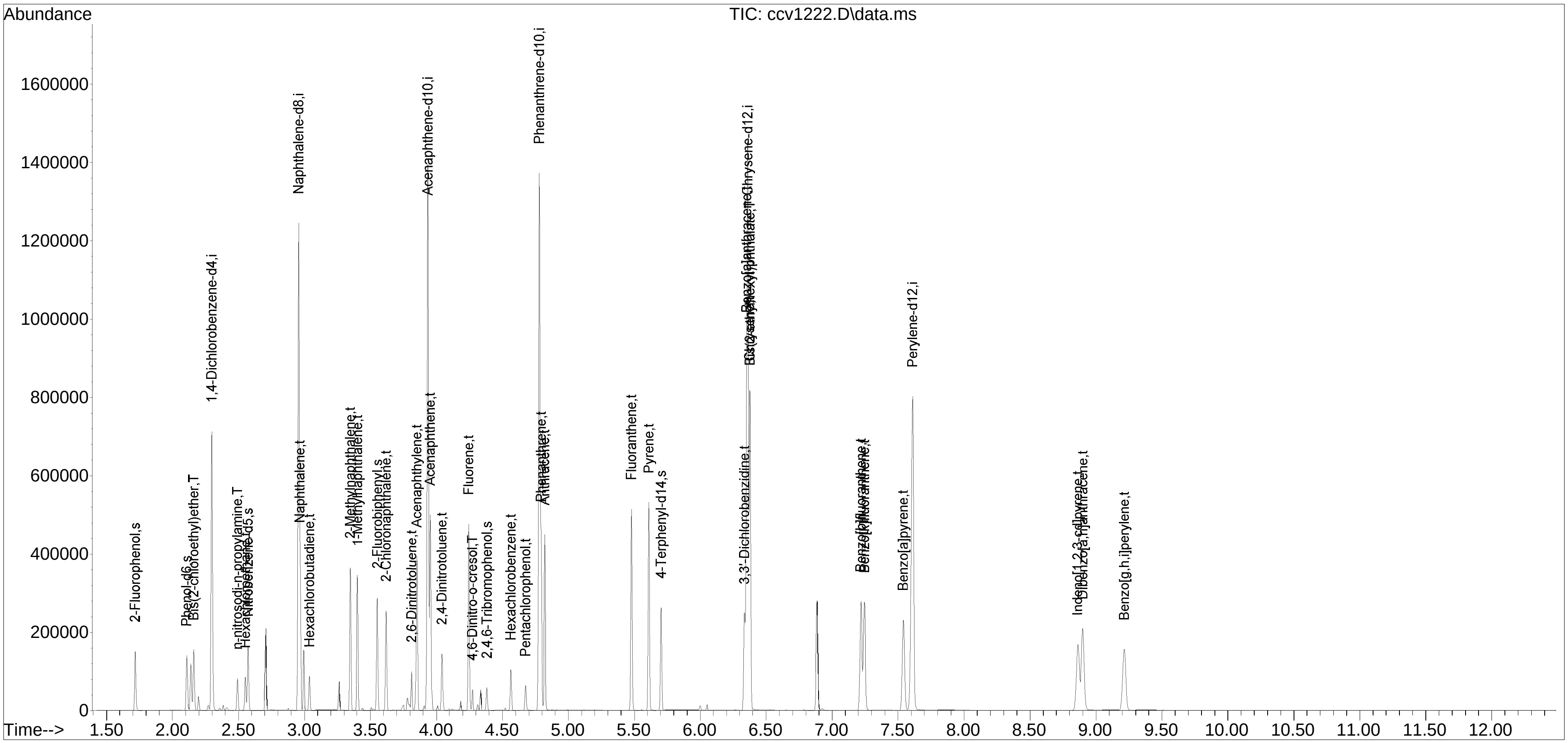
(#) = qualifier out of range (m) = manual integration (+) = signals summed

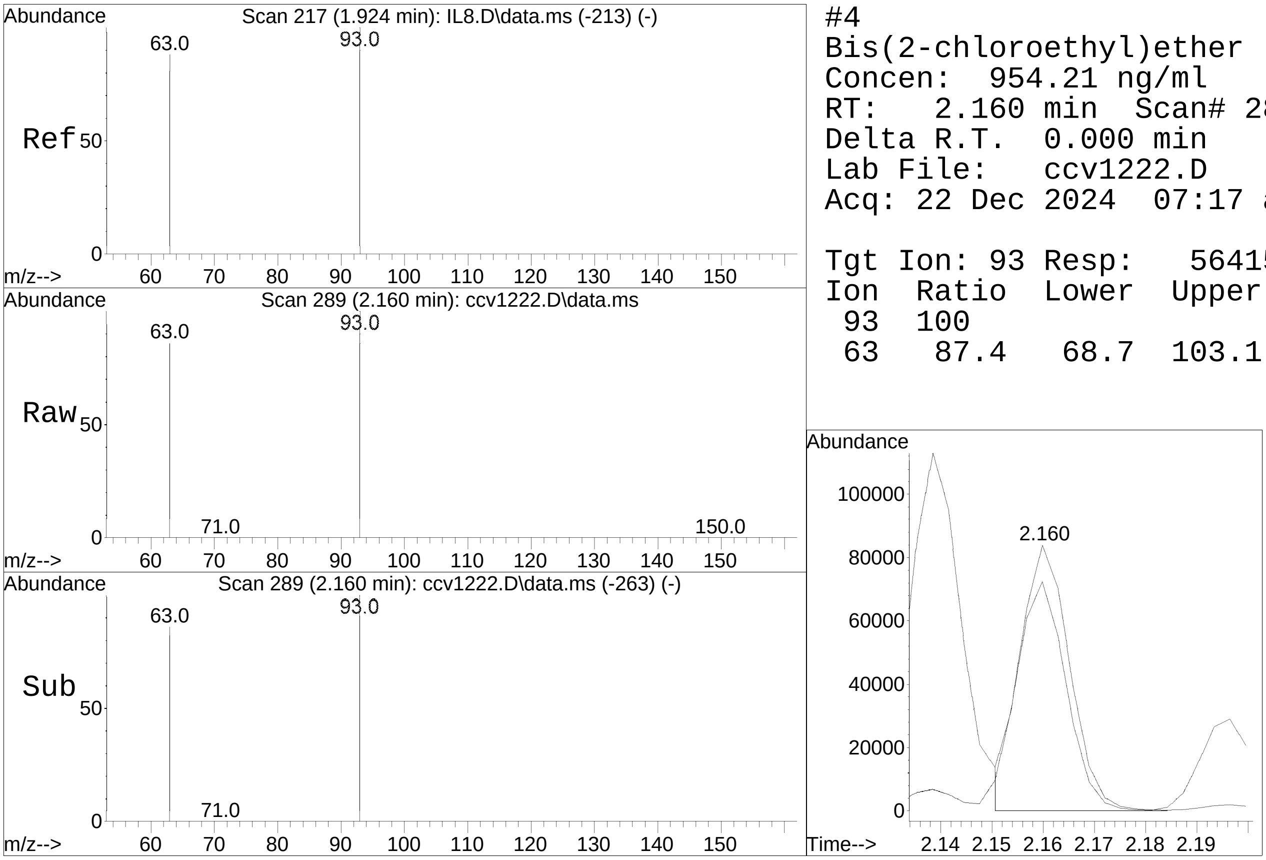
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241222RVT\
Data File : ccv1222.D
Acq On : 22 Dec 2024 07:17 am
Operator : SV120:dv
Sample : WG2012326-3,32,,ICV 10884 (1221b)
Misc : WG2012326,,ical21668
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 22 07:37:10 2024
Quant Method : I:\8270SIM\sv120\241222RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 22 07:37:56 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

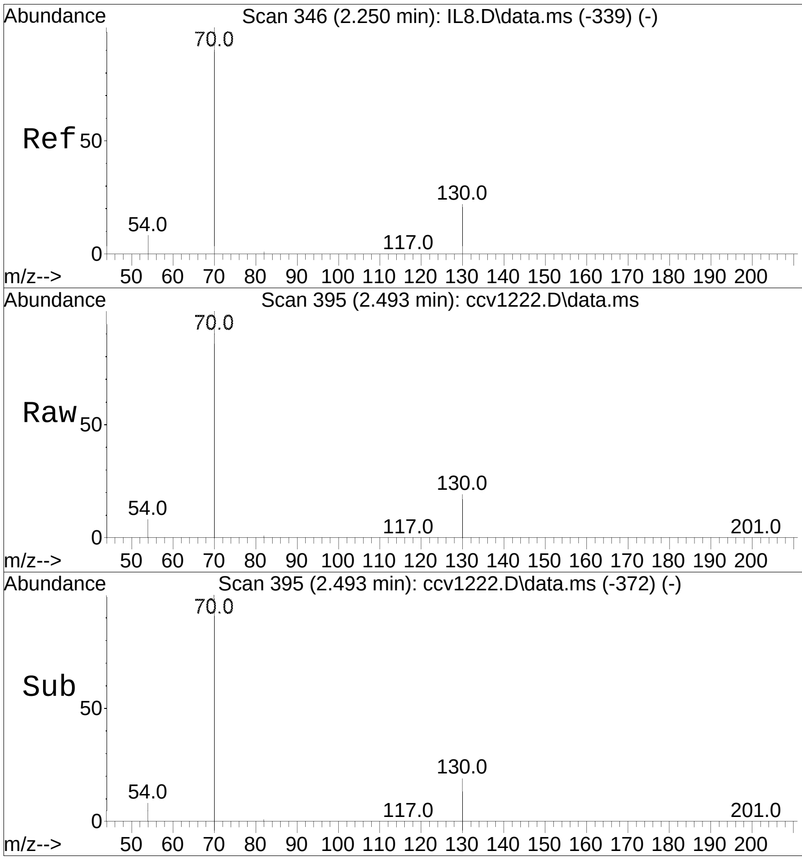





#4
Bis(2-chloroethyl)ether
Concen: 954.21 ng/ml
RT: 2.160 min Scan# 289
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion: 93 Resp: 56415

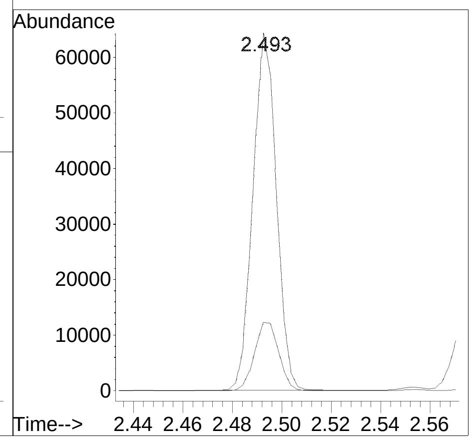
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 87.4 | 68.7 | 103.1 |

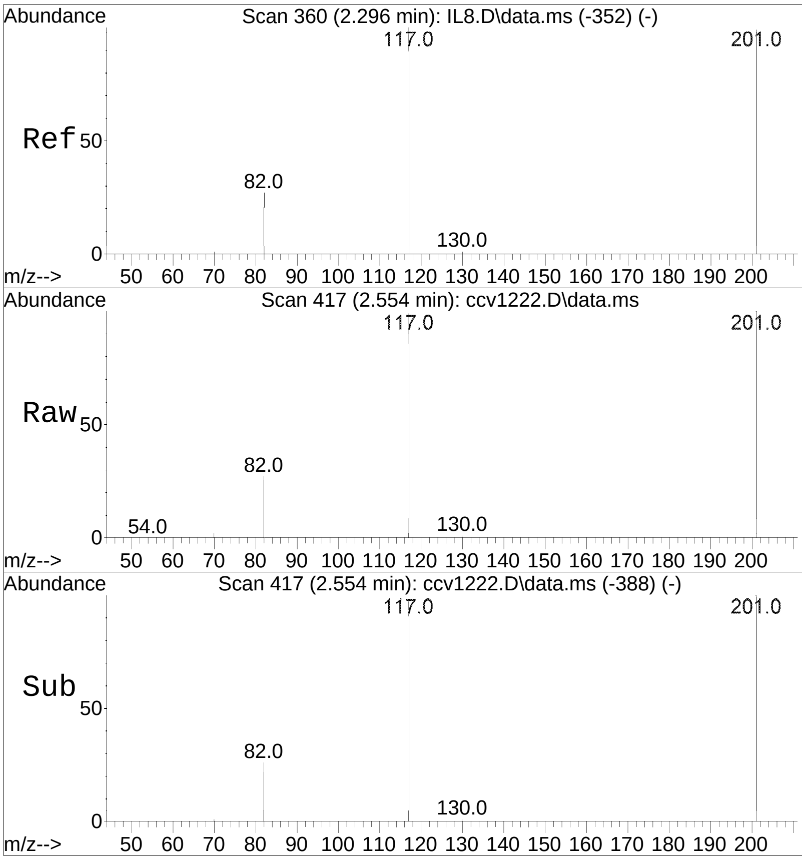



#5
n-nitrosodi-n-propylamine
Concen: 999.01 ng/ml
RT: 2.493 min Scan# 395
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion: 70 Resp: 41837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 130 | 19.9 | 16.6 | 24.8 |

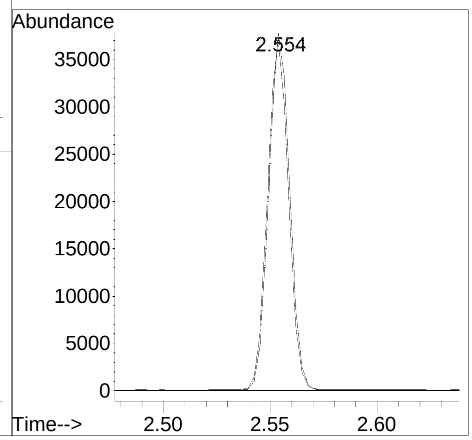


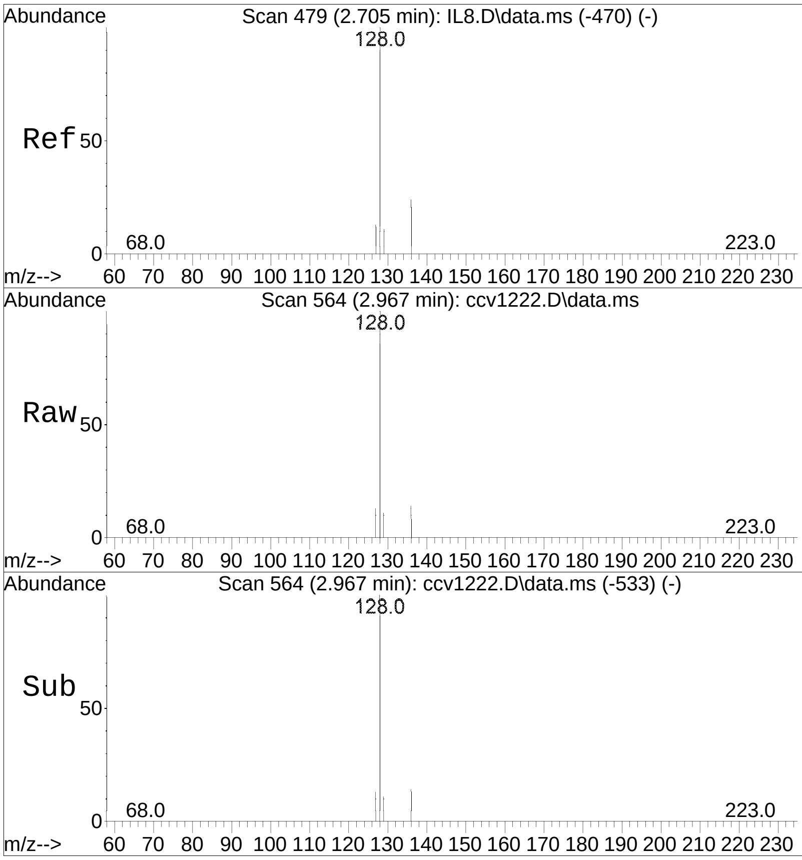



#6
Hexachloroethane
Concen:  994.37 ng/ml
RT:   2.554 min  Scan# 417
Delta R.T.  0.000 min
Lab File:   ccv1222.D
Acq: 22 Dec 2024  07:17 am

Tgt Ion:117 Resp:   24993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 102.0 | 82.0 | 123.0 |

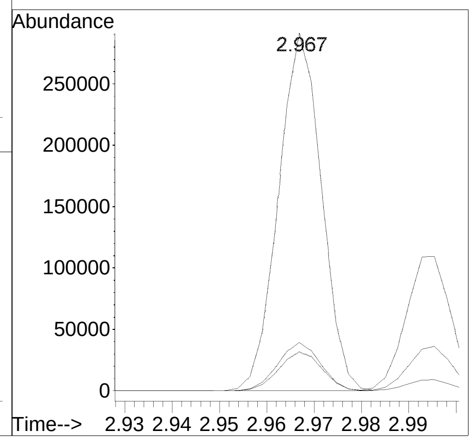


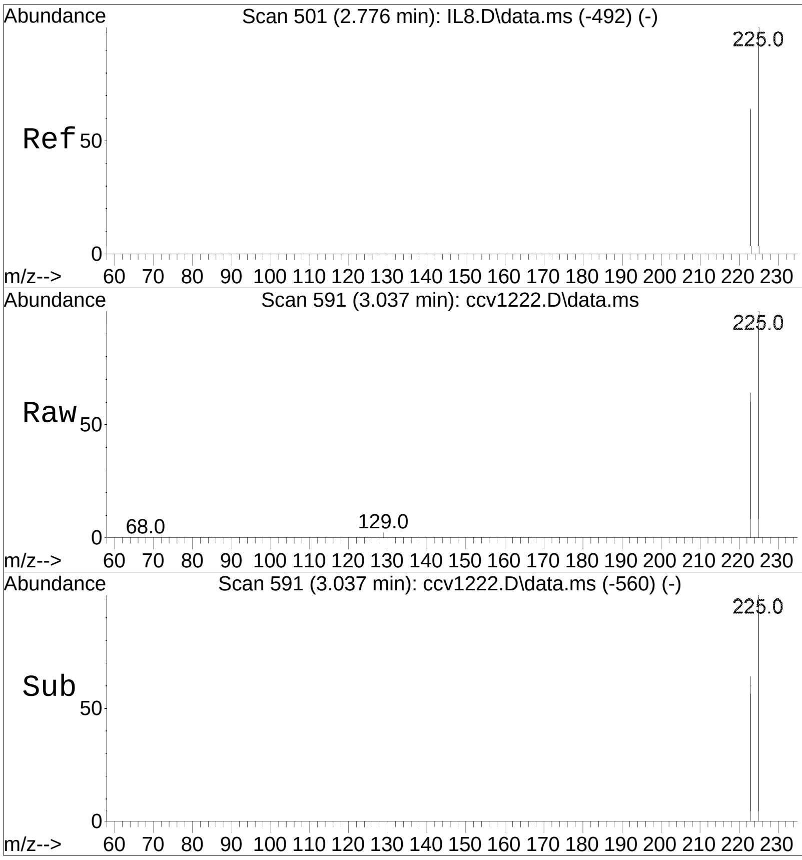



#9
Naphthalene
Concen: 967.78 ng/ml
RT: 2.967 min Scan# 564
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:128 Resp: 183386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.0 | 8.9 | 13.3 |
| 127 | 13.4 | 10.7 | 16.1 |

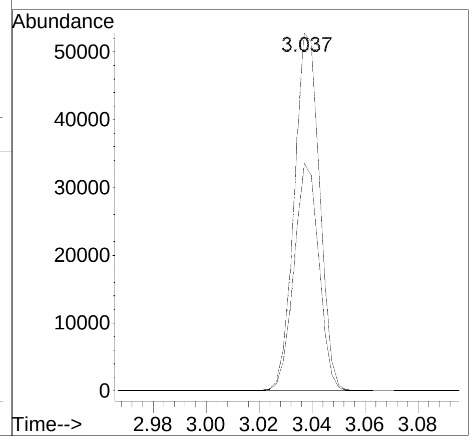


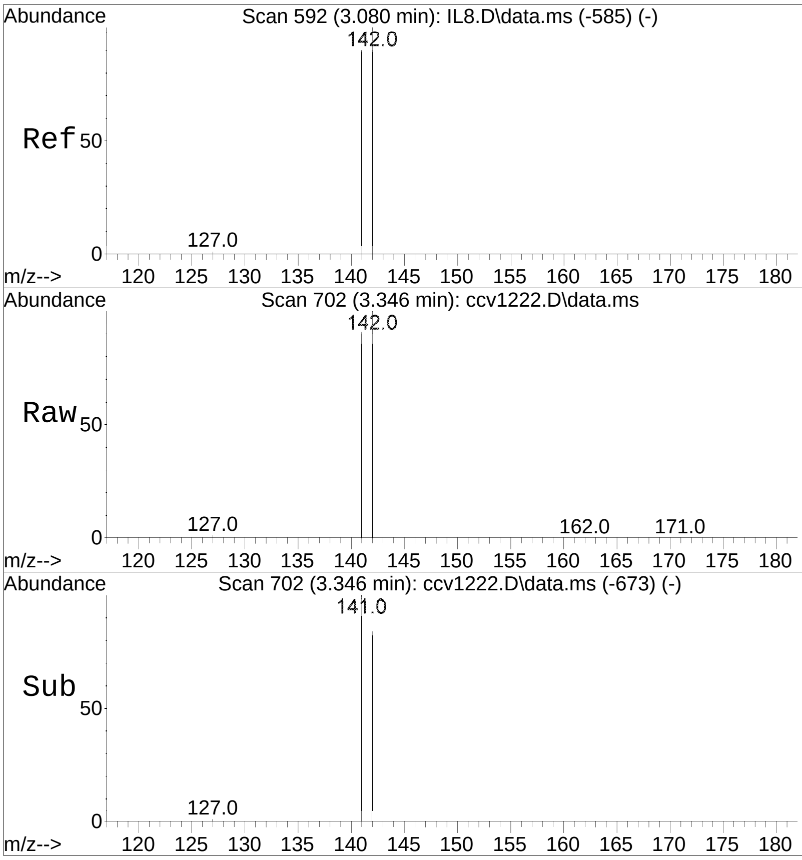



#10
Hexachlorobutadiene
Concen: 964.71 ng/ml
RT: 3.037 min Scan# 591
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:225 Resp: 34638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 50.5 | 75.7 |

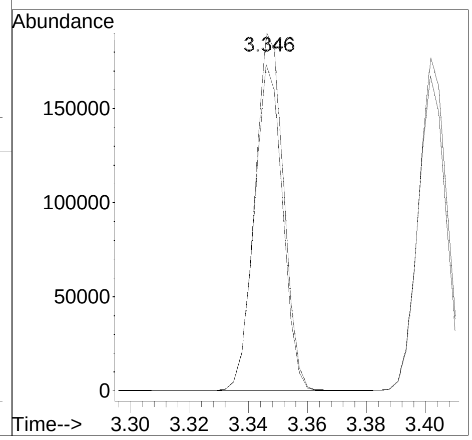


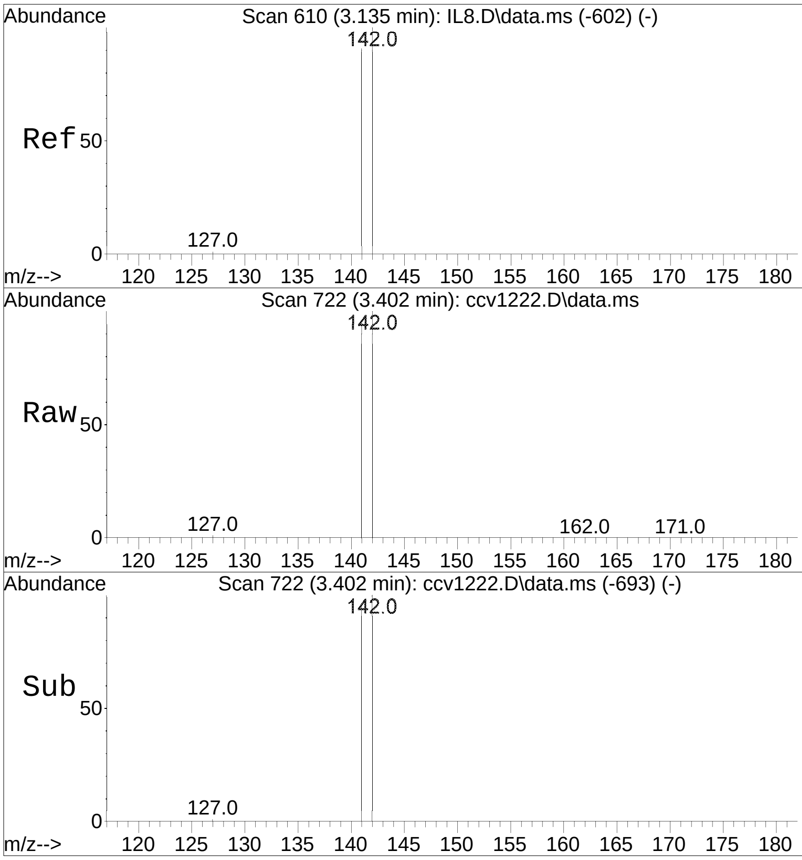



#11
2-Methylnaphthalene
Concen: 977.33 ng/ml
RT: 3.346 min Scan# 702
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:142 Resp: 128572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.5 | 72.2 | 108.2 |

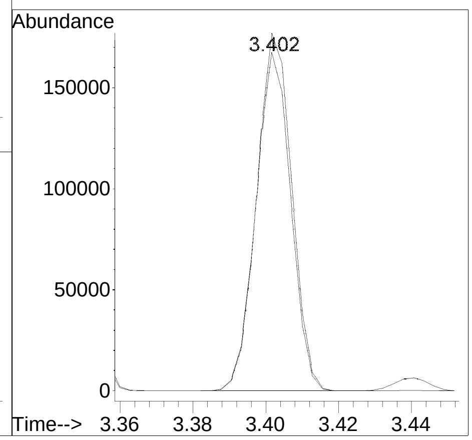


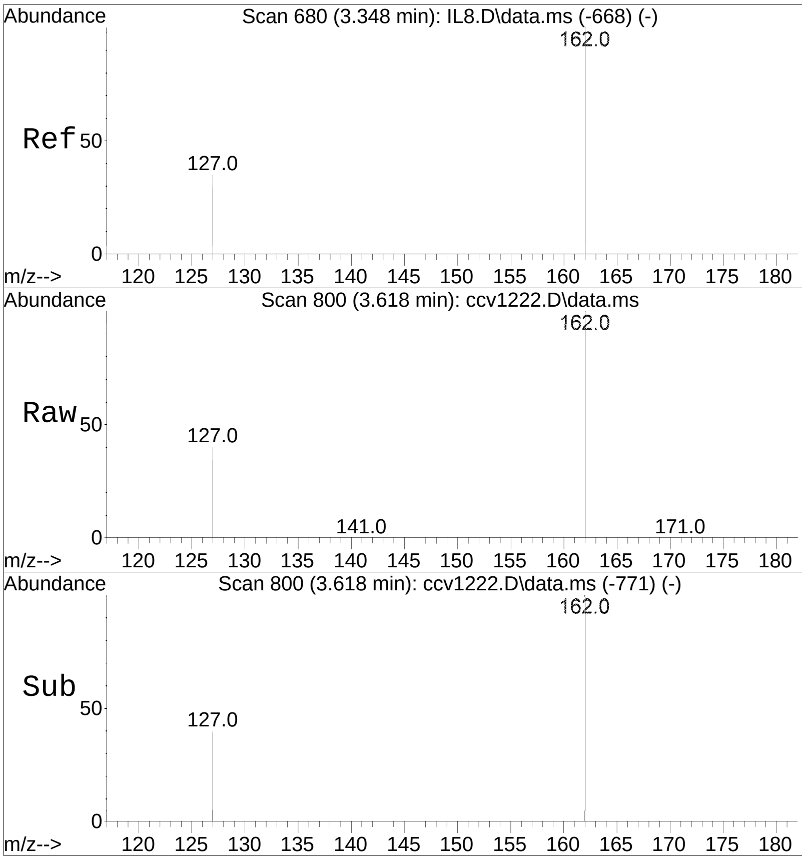



#12
1-Methylnaphthalene
Concen:  973.08 ng/ml
RT:   3.402 min  Scan# 722
Delta R.T.  0.000 min
Lab File:   ccv1222.D
Acq: 22 Dec 2024  07:17 am

Tgt Ion:142 Resp:  117747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 93.9 | 74.6 | 112.0 |

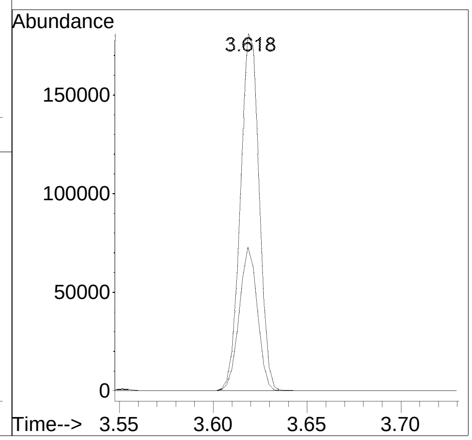


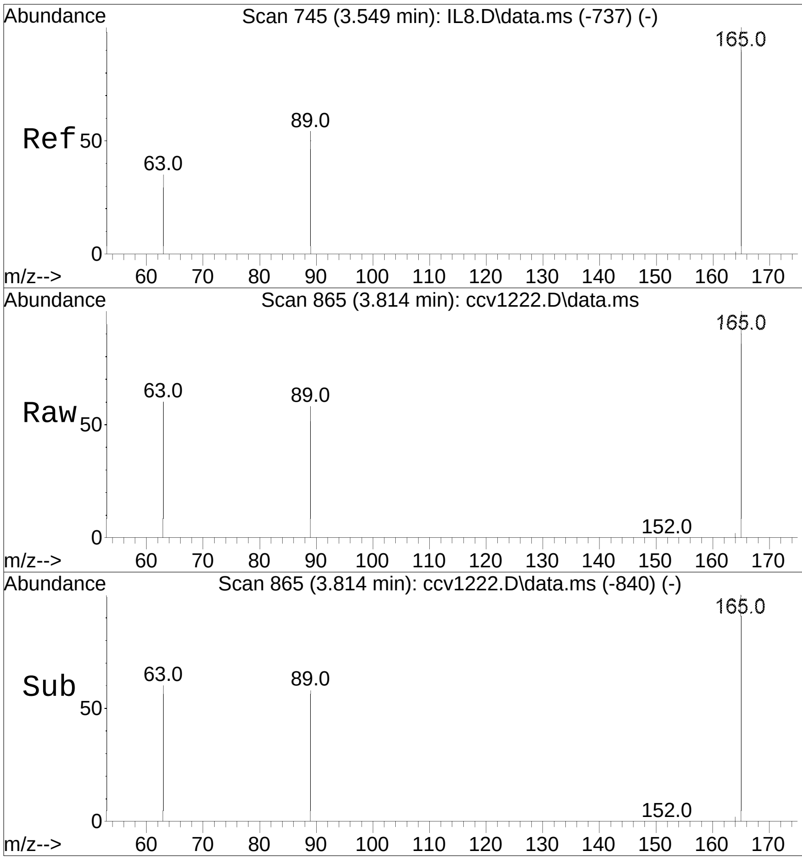



#14
2-Chloronaphthalene
Concen: 952.67 ng/ml
RT: 3.618 min Scan# 800
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:162 Resp: 124412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 39.1 | 31.0 | 46.4 |

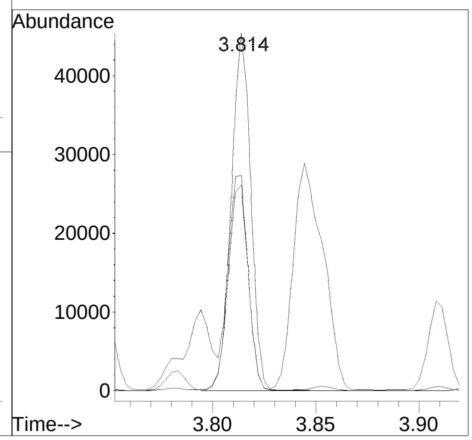


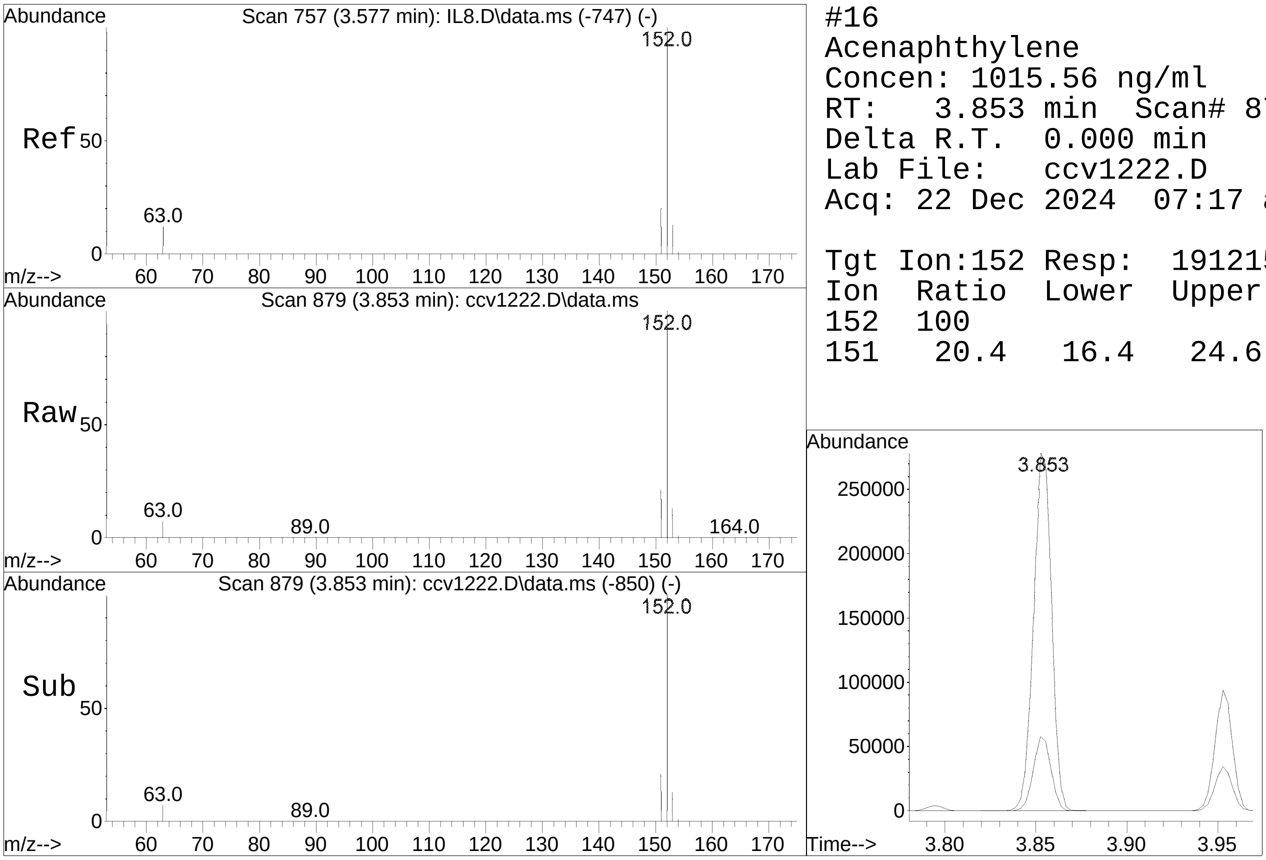



#15
2,6-Dinitrotoluene
Concen: 1003.58 ng/ml
RT: 3.814 min Scan# 865
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:165 Resp: 29665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 59.4 | 45.8 | 68.8 |
| 63 | 60.9 | 46.3 | 69.5 |

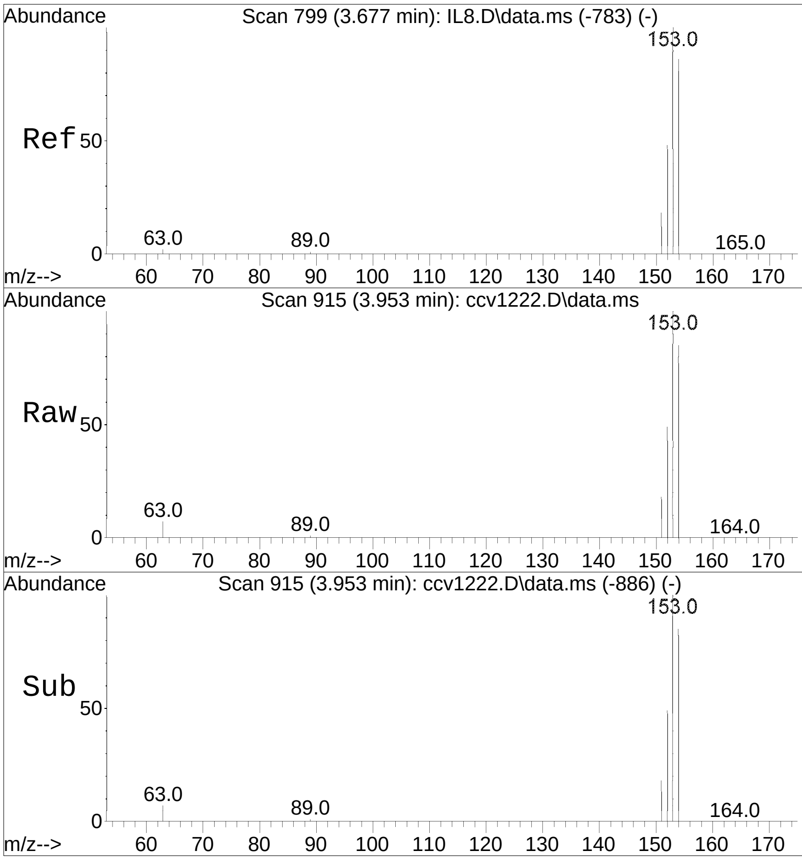





#16
Acenaphthylene
Concen: 1015.56 ng/ml
RT: 3.853 min Scan# 879
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:152 Resp: 191215

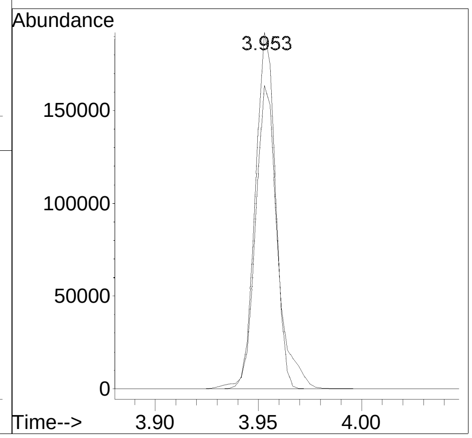
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.4 | 24.6 |

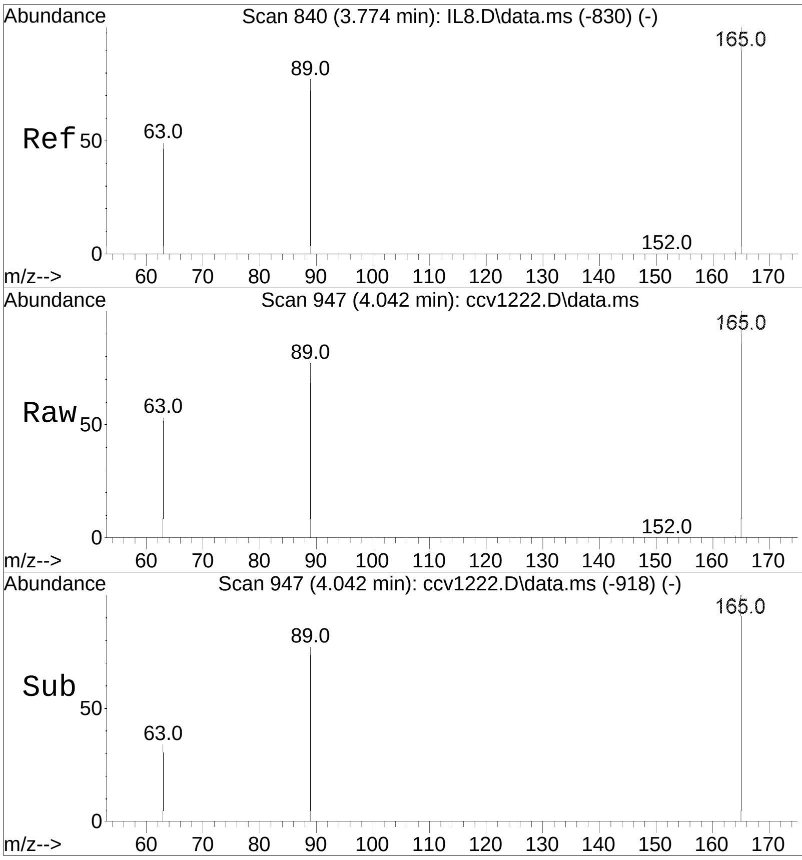



#18
Acenaphthene
Concen: 980.17 ng/ml
RT: 3.953 min Scan# 915
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:153 Resp: 128909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 153 | 100 | | |
| 154 | 94.6 | 69.8 | 104.6 |

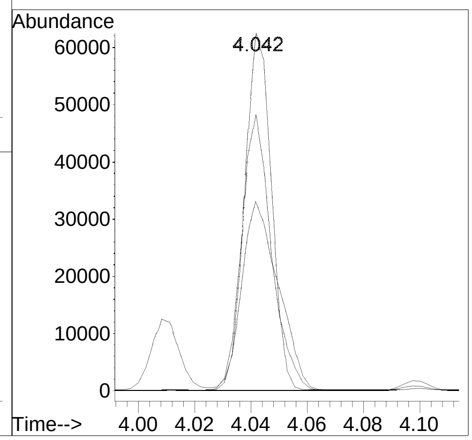


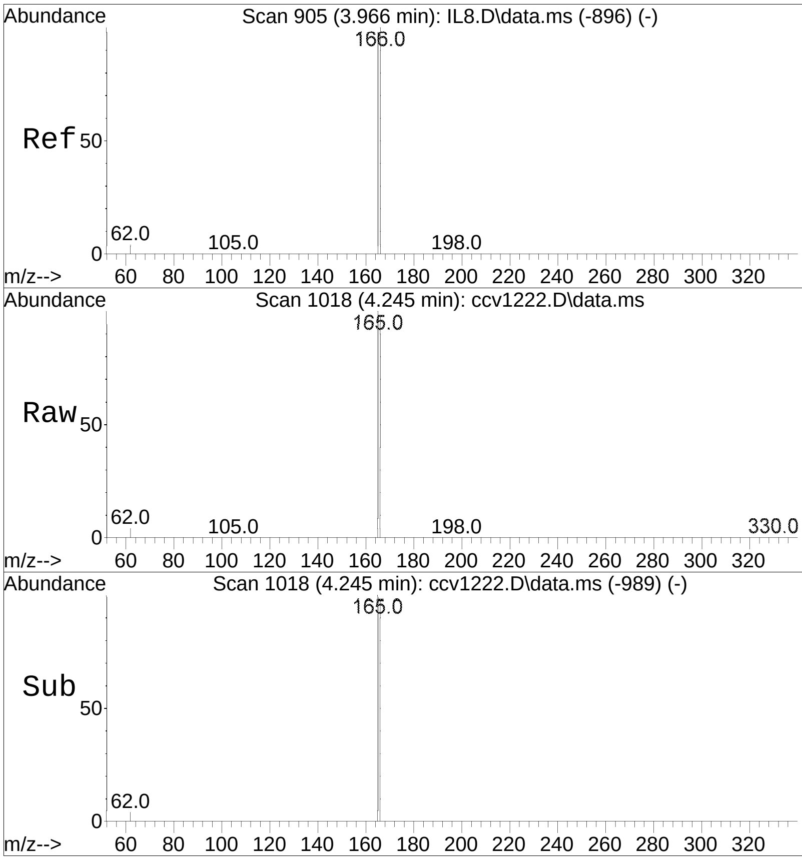



#19
2,4-Dinitrotoluene
Concen: 1126.28 ng/ml
RT: 4.042 min Scan# 947
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:165 Resp: 41242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 86.0 | 65.9 | 98.9 |
| 63 | 71.7 | 55.7 | 83.5 |

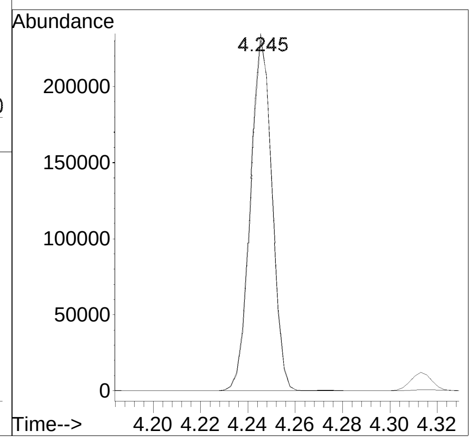


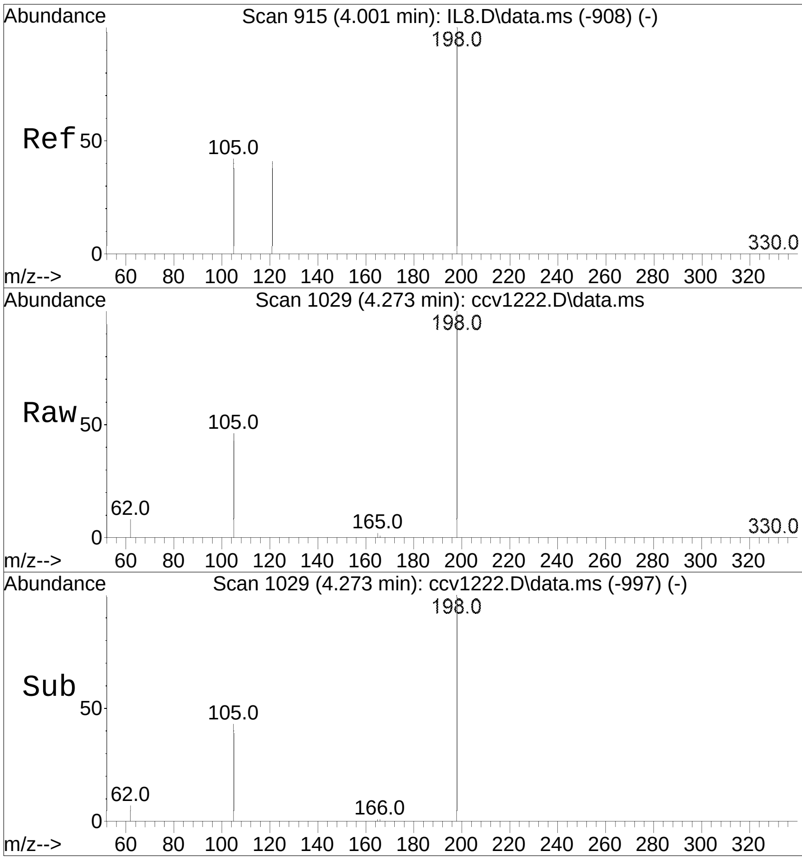



#20
Fluorene
Concen: 1026.47 ng/ml
RT: 4.245 min Scan# 1018
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:166 Resp: 146075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 101.3 | 80.1 | 120.1 |

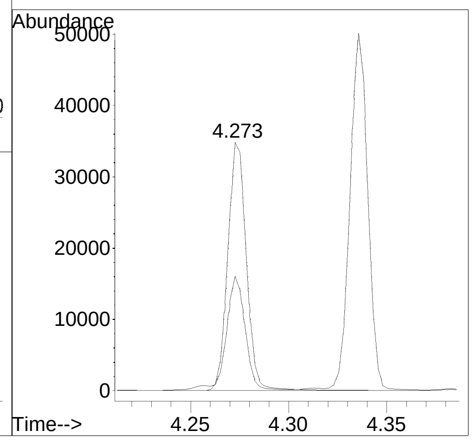


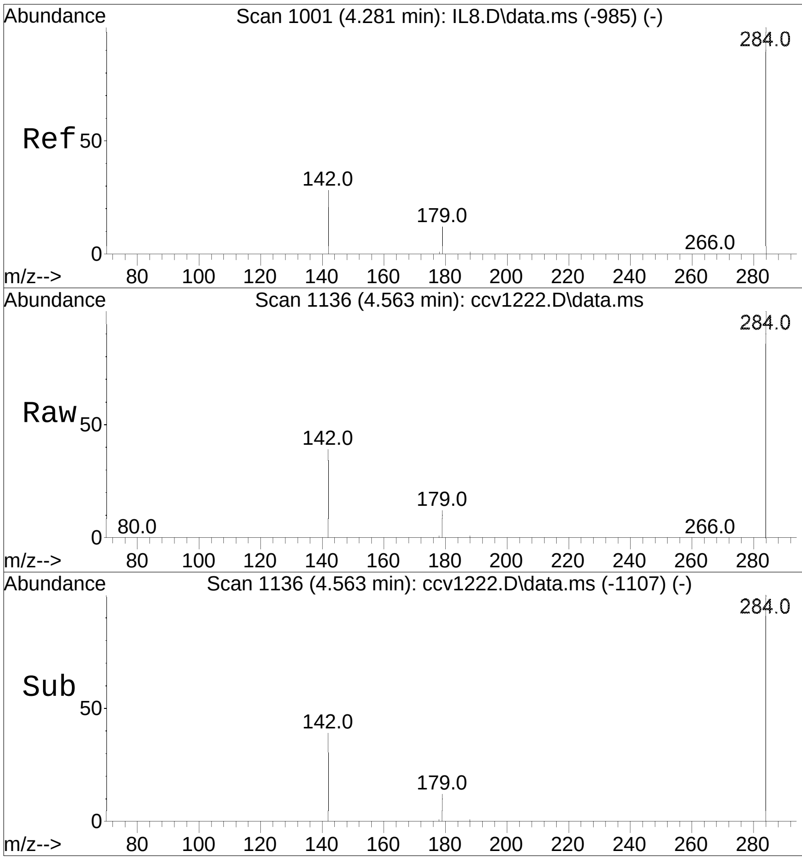



#23
4,6-Dinitro-o-cresol
Concen:  905.11 ng/ml
RT:   4.273 min  Scan# 1029
Delta R.T.  0.000 min
Lab File:   ccv1222.D
Acq: 22 Dec 2024  07:17 am

Tgt Ion:198 Resp:   22821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 105 | 46.8 | 35.4 | 53.2 |

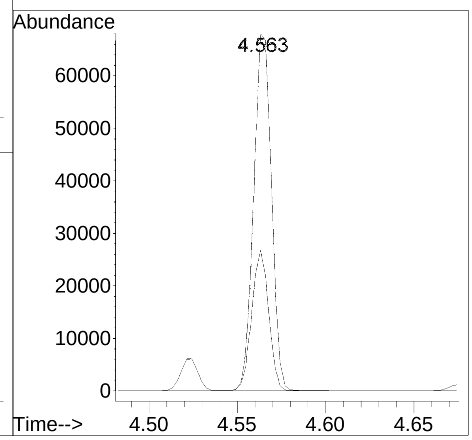


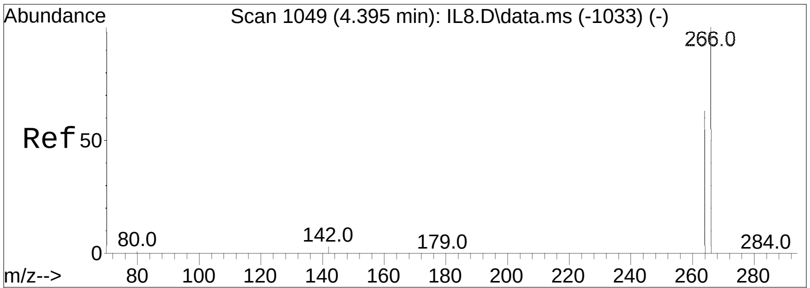


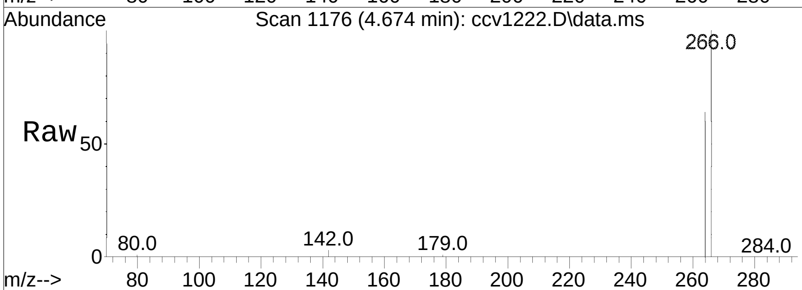

#24
Hexachlorobenzene
Concen: 1042.03 ng/ml
RT: 4.563 min Scan# 1136
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

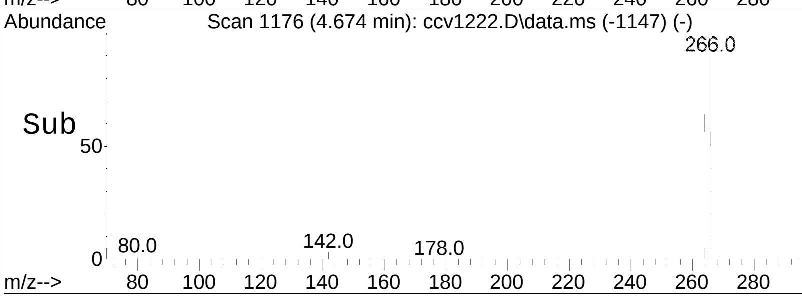
Tgt Ion:284 Resp: 47033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 37.7 | 30.2 | 45.2 |





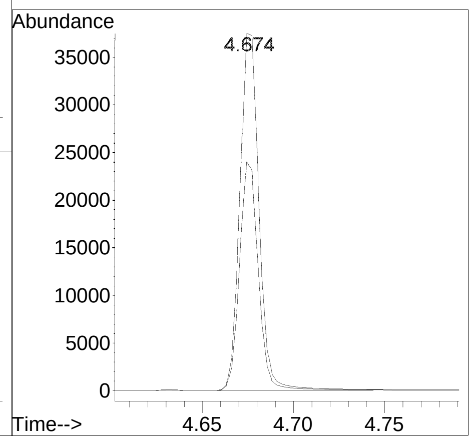



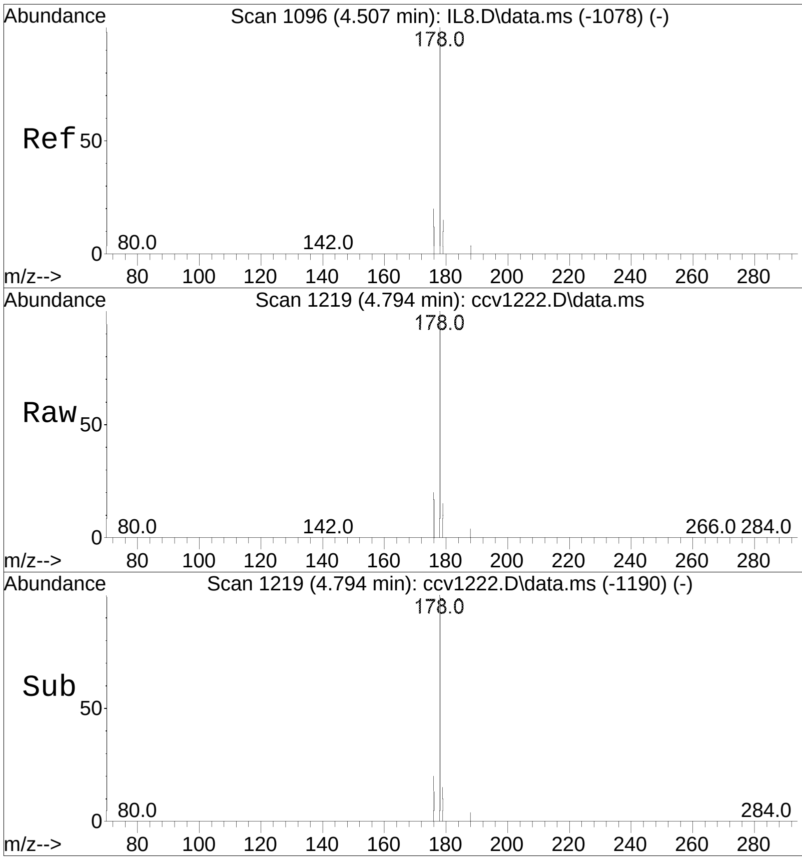




#25
Pentachlorophenol
Concen: 1100.96 ng/ml
RT: 4.674 min Scan# 1176
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:266 Resp: 27393

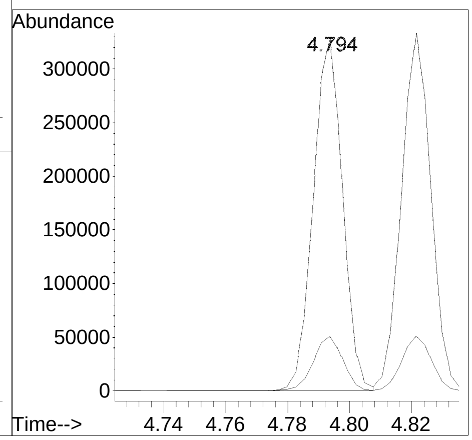
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.2 | 50.3 | 75.5 |

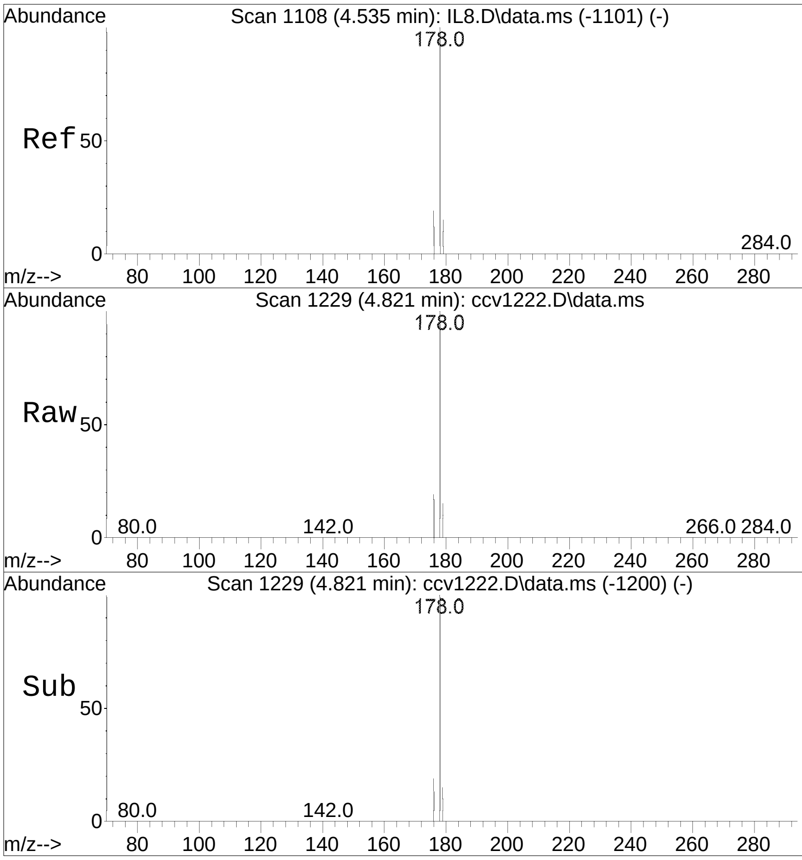





#26
Phenanthrene
Concen: 1057.58 ng/ml
RT: 4.794 min Scan# 1219
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

| Tgt | Ion:178 | Resp: | 215353 |
|---|---|---|---|
| Ion | Ratio | Lower | Upper |
| 178 | 100 | | |
| 179 | 15.6 | 12.5 | 18.7 |

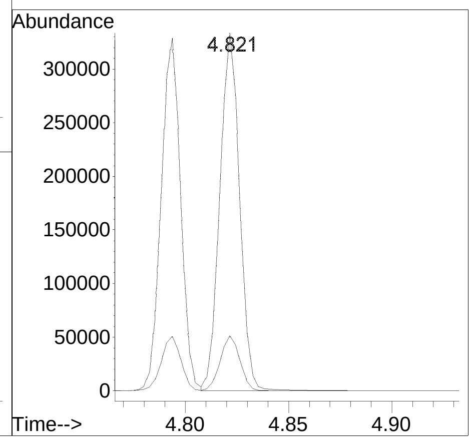


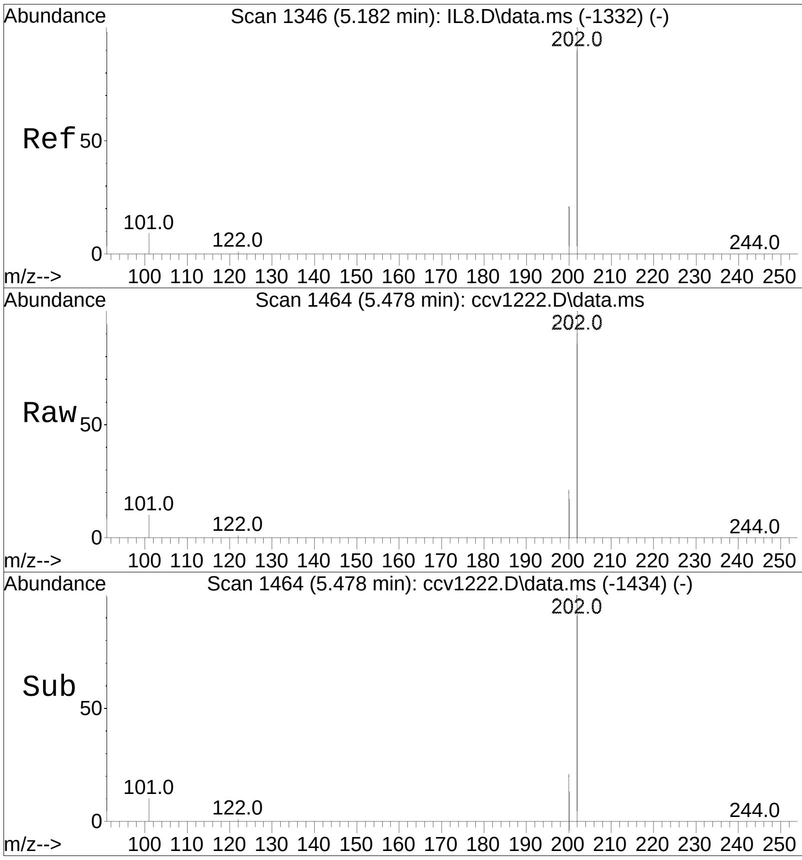



#27
Anthracene
Concen: 1050.22 ng/ml
RT: 4.821 min Scan# 1229
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:178 Resp: 221256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.3 | 12.3 | 18.5 |

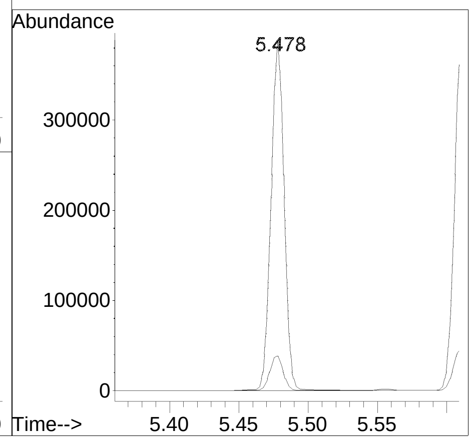


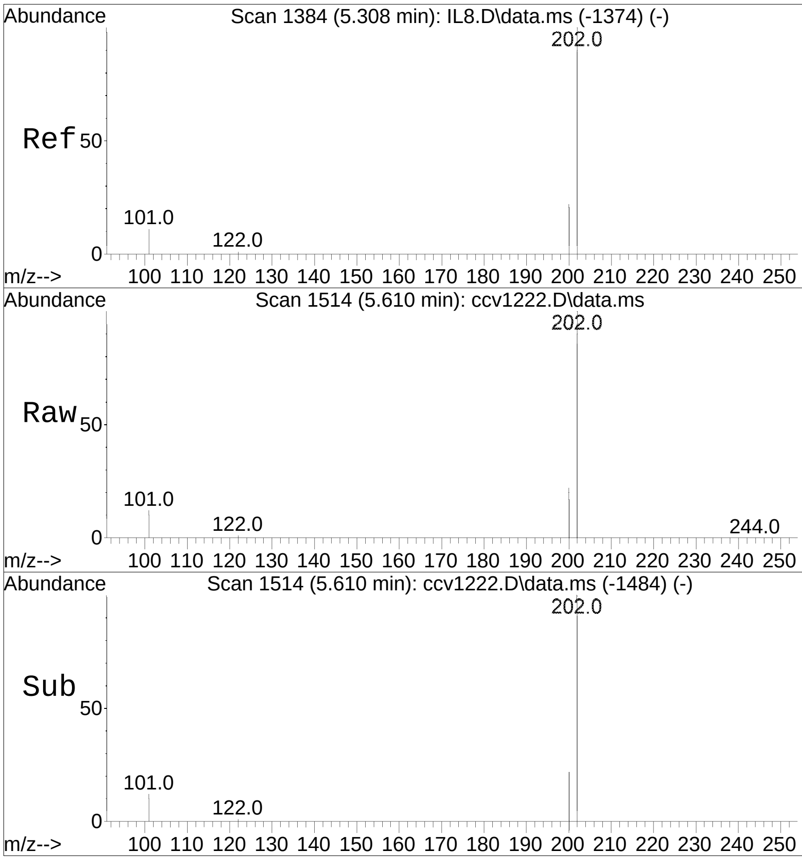



#28
Fluoranthene
Concen: 1089.42 ng/ml
RT: 5.478 min Scan# 1464
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:202 Resp: 255505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.1 | 7.8 | 11.6 |

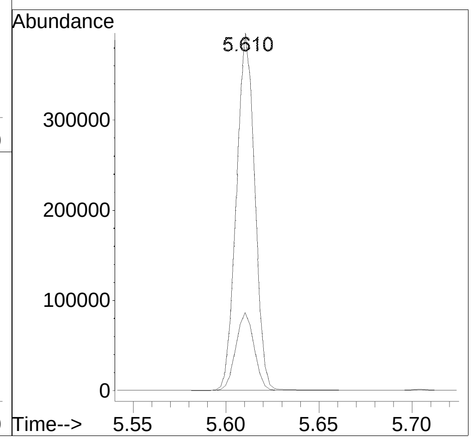


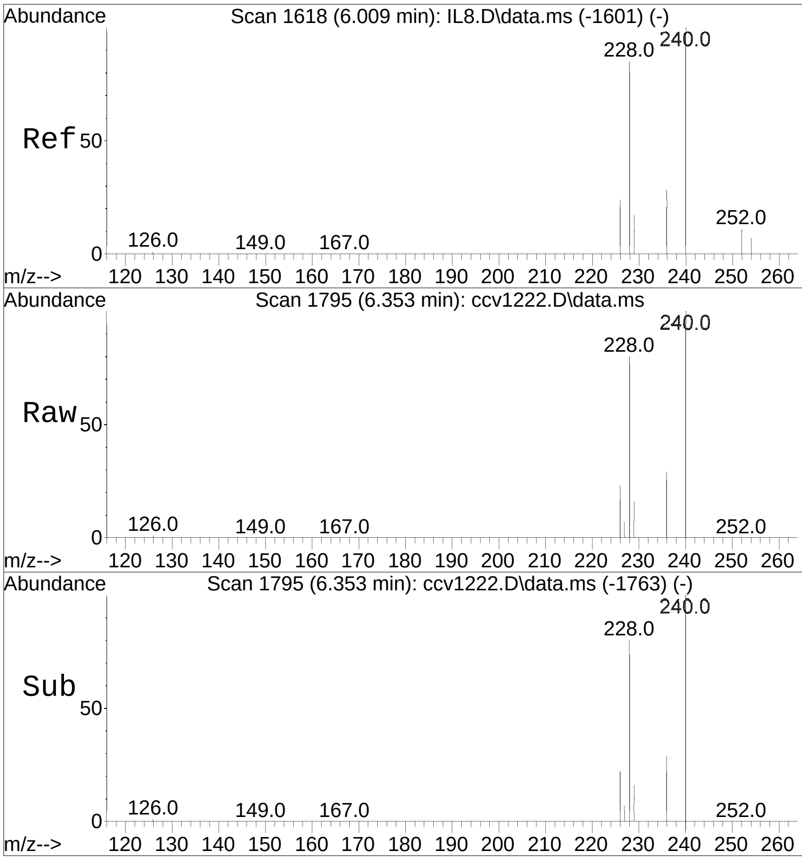



#29
Pyrene
Concen: 1115.20 ng/ml
RT: 5.610 min Scan# 1514
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:202 Resp: 269701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.8 | 17.5 | 26.3 |

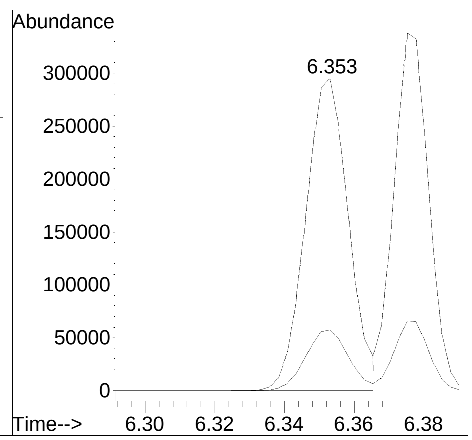


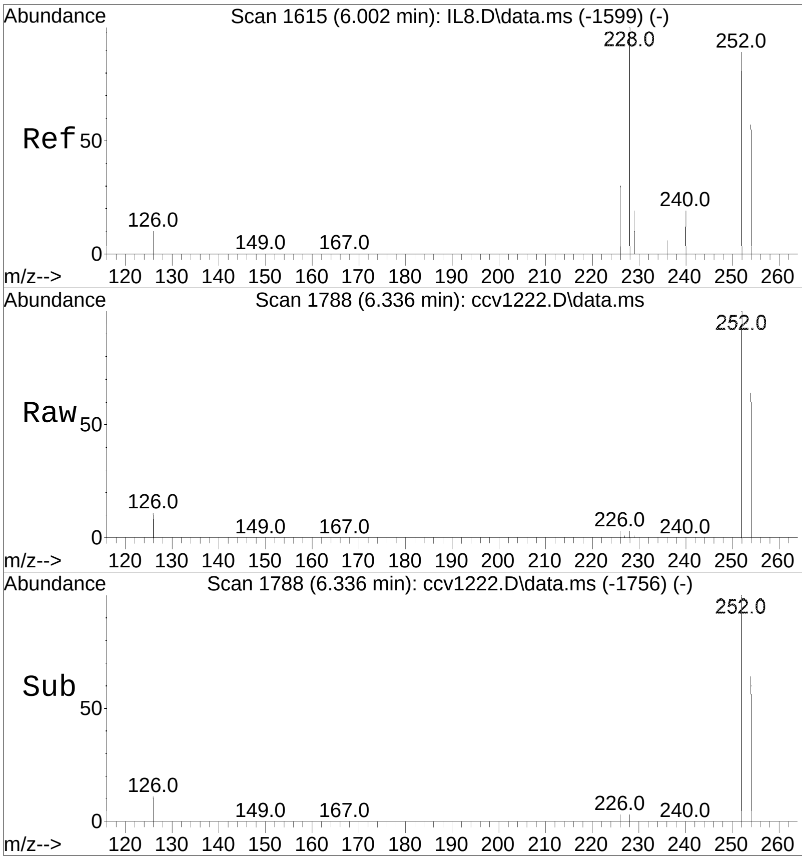



#32
Benzo[a]anthracene
Concen: 1050.86 ng/ml
RT: 6.353 min Scan# 1795
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:228 Resp: 251922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 19.6 | 16.2 | 24.4 |

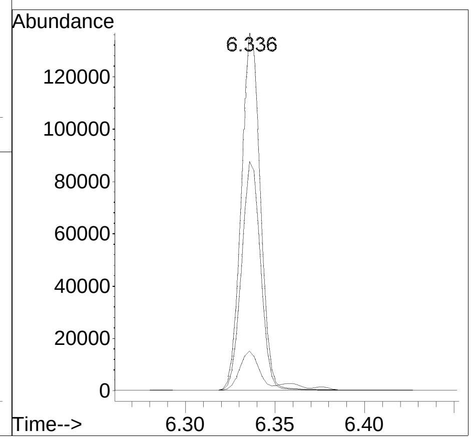


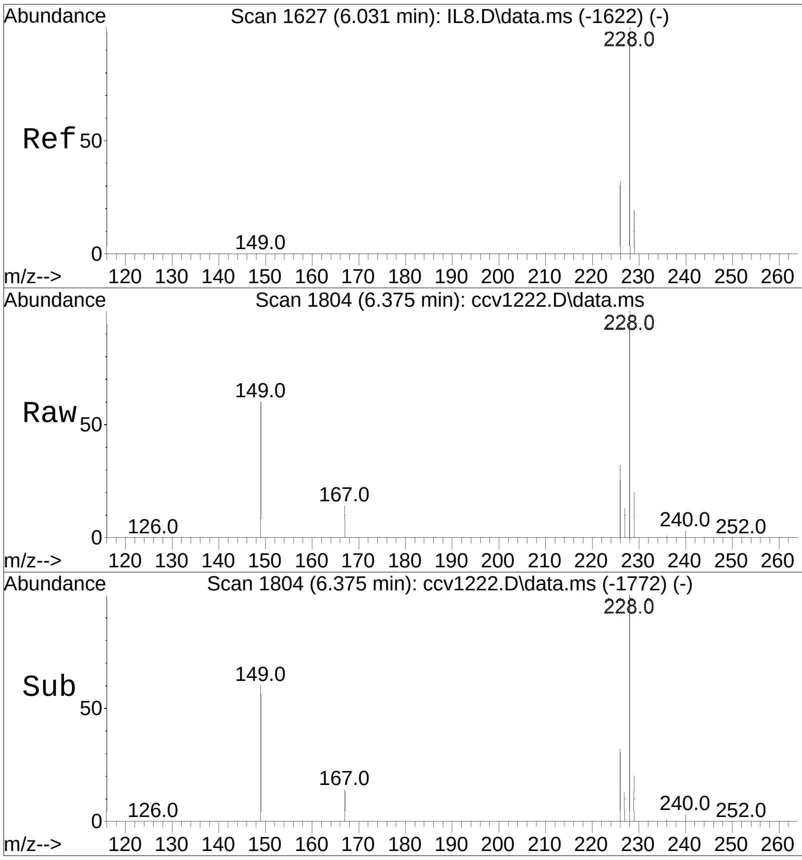



#33
3,3'-Dichlorobenzidine
Concen: 1197.41 ng/ml
RT: 6.336 min Scan# 1788
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:252 Resp: 101065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 126 | 11.2 | 10.9 | 16.3 |
| 254 | 64.2 | 51.4 | 77.2 |

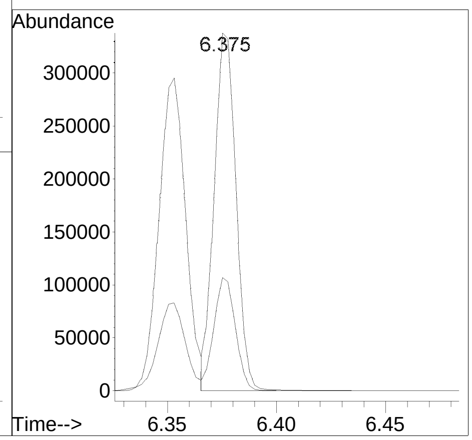


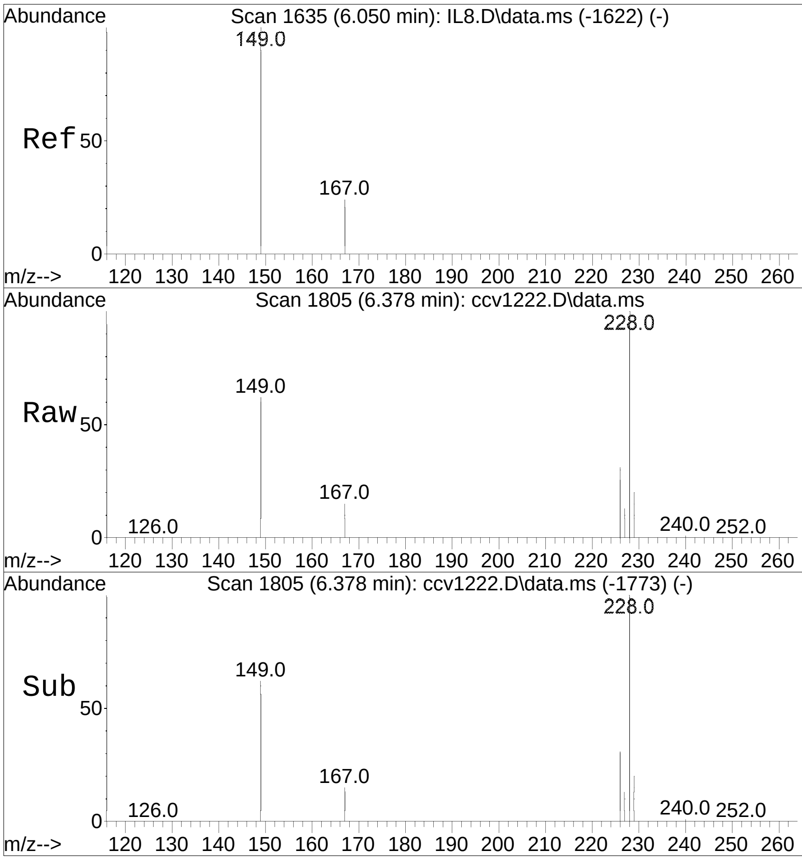



#34
Chrysene
Concen: 1136.95 ng/ml
RT: 6.375 min Scan# 1804
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:228 Resp: 235020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.2 | 24.9 | 37.3 |

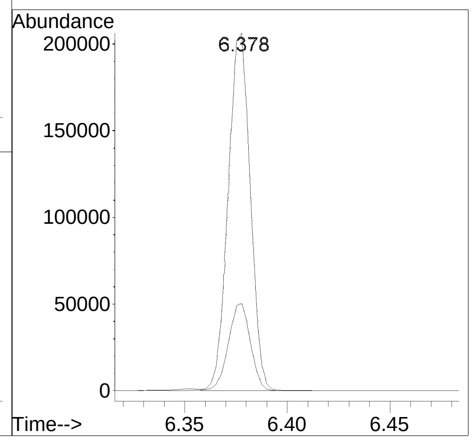


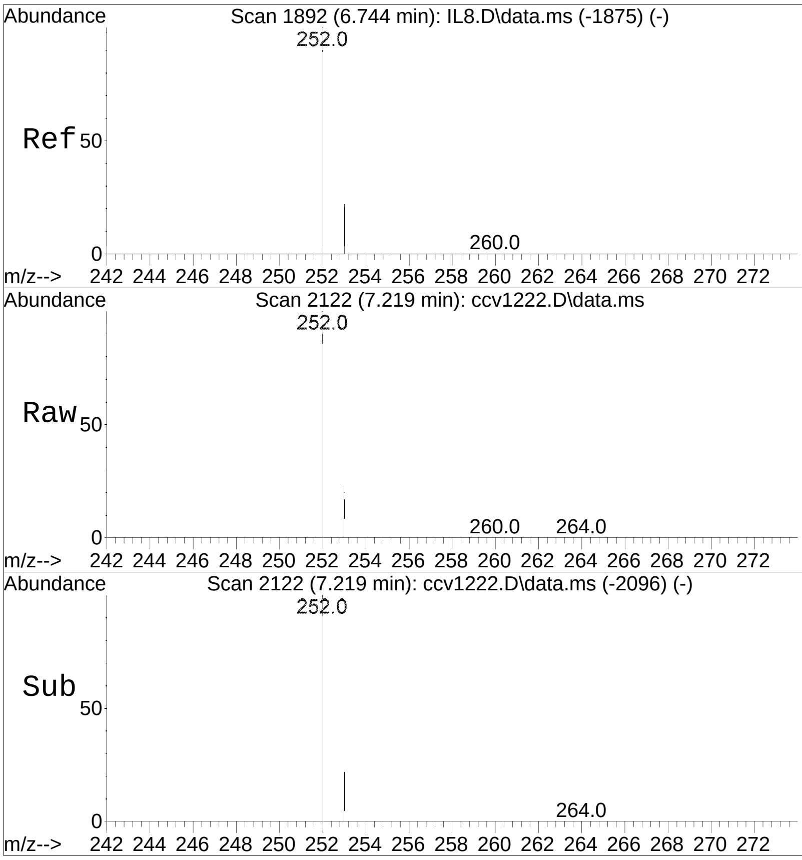



#35
Bis(2-ethylhexyl)phthalate
Concen: 1105.51 ng/ml
RT: 6.378 min Scan# 1805
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:149 Resp: 152751

| Ion | Ratio | Lower | Upper |
| --- | --- | --- | --- |
| 149 | 100 | | |
| 167 | 24.6 | 19.6 | 29.4 |

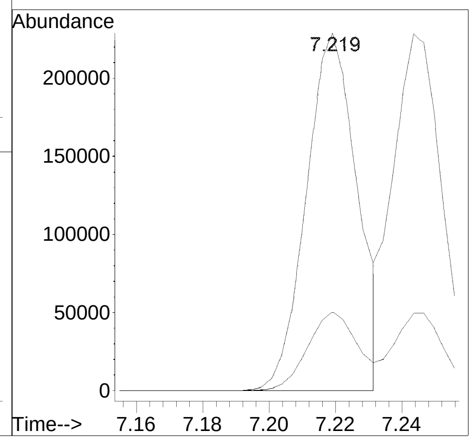


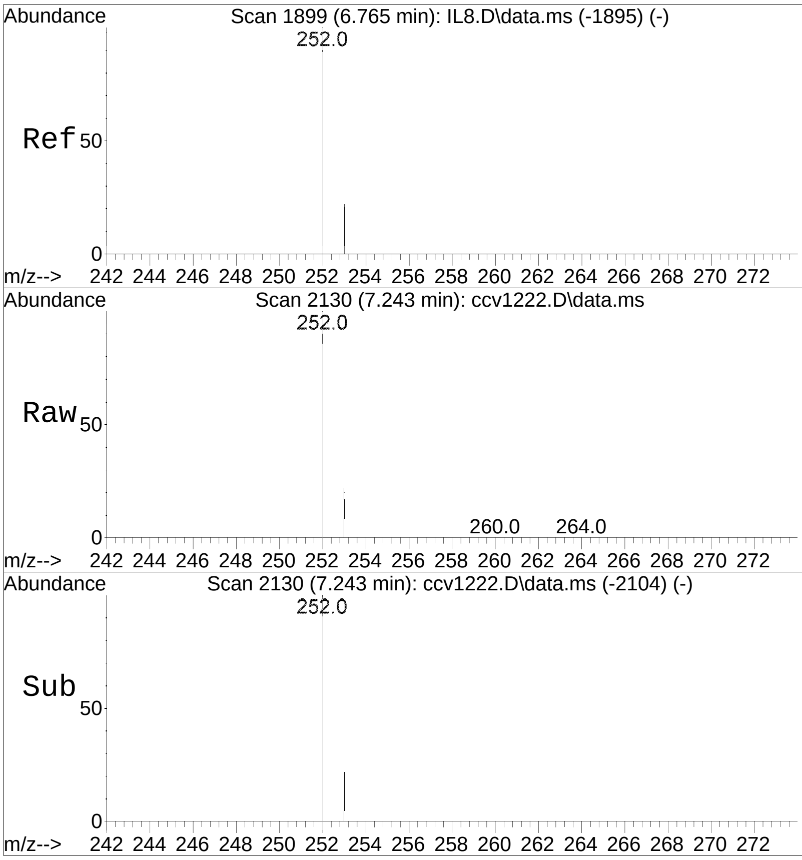



#37
Benzo[b]fluoranthene
Concen: 1027.25 ng/ml
RT: 7.219 min Scan# 2122
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:252 Resp: 242987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.7 | 17.4 | 26.0 |

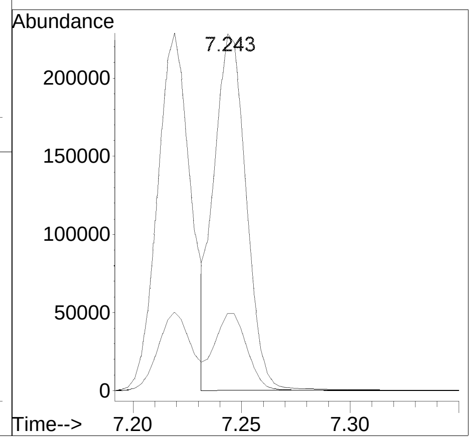


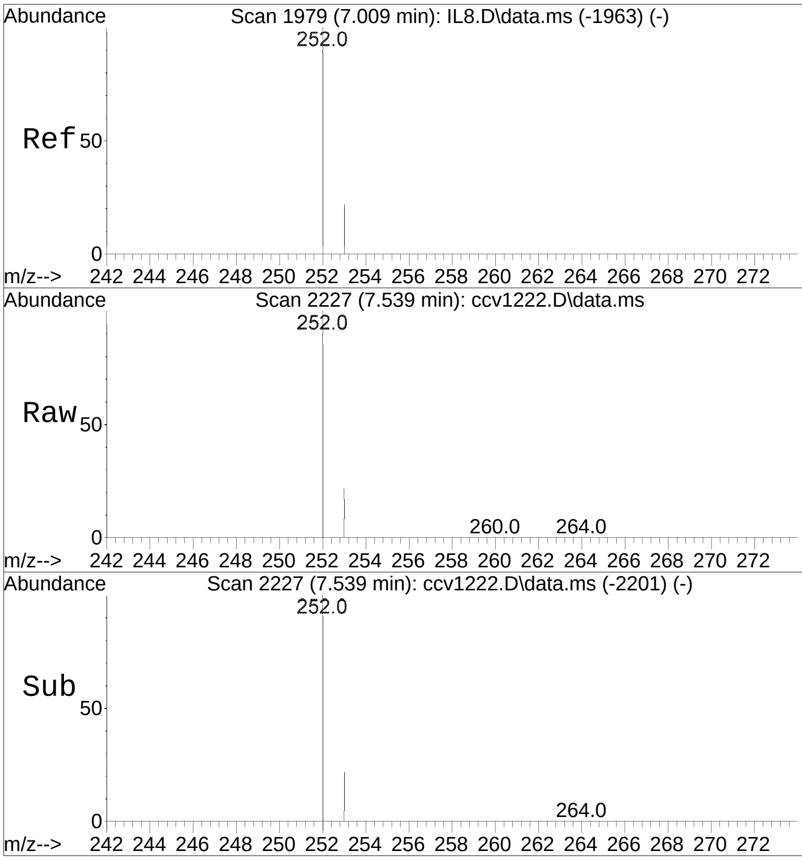



#38
Benzo[k]fluoranthene
Concen: 1104.59 ng/ml
RT: 7.243 min Scan# 2130
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:252 Resp: 234885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.9 | 17.6 | 26.4 |

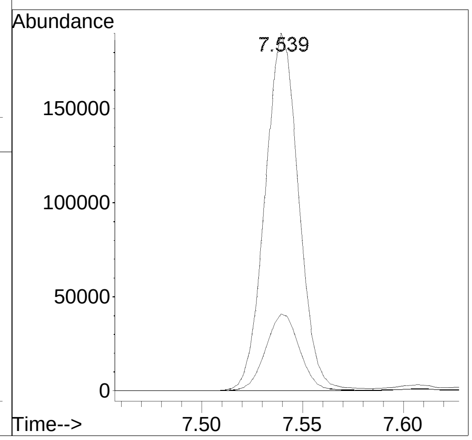


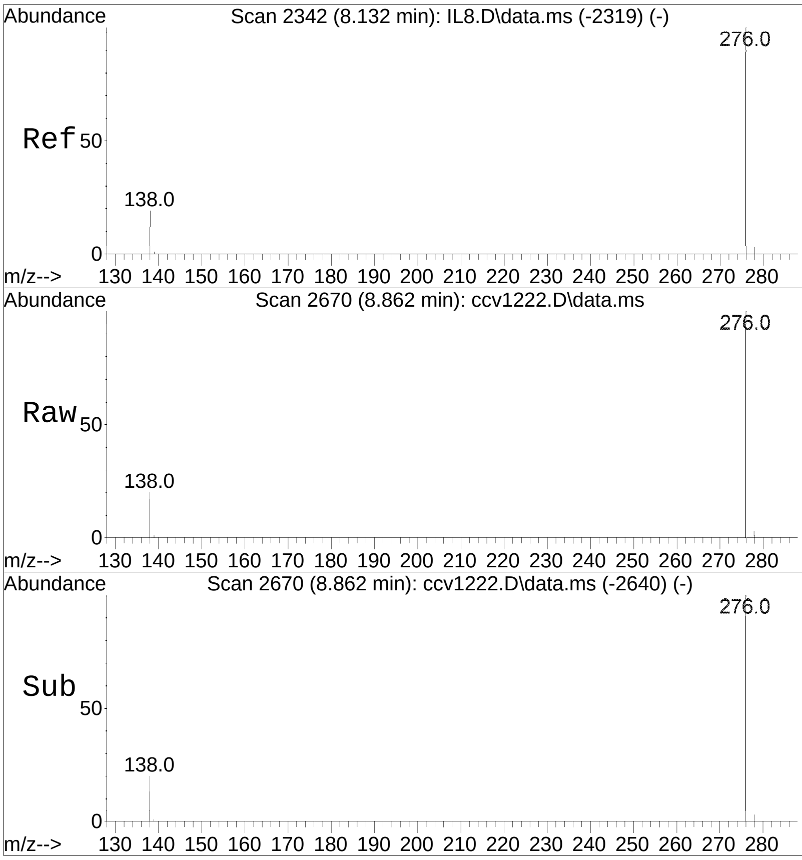



#39
Benzo[a]pyrene
Concen: 1132.93 ng/ml
RT: 7.539 min Scan# 2227
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:252 Resp: 219501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.6 | 17.4 | 26.2 |

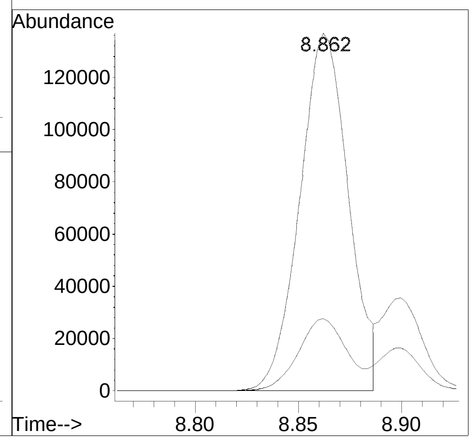


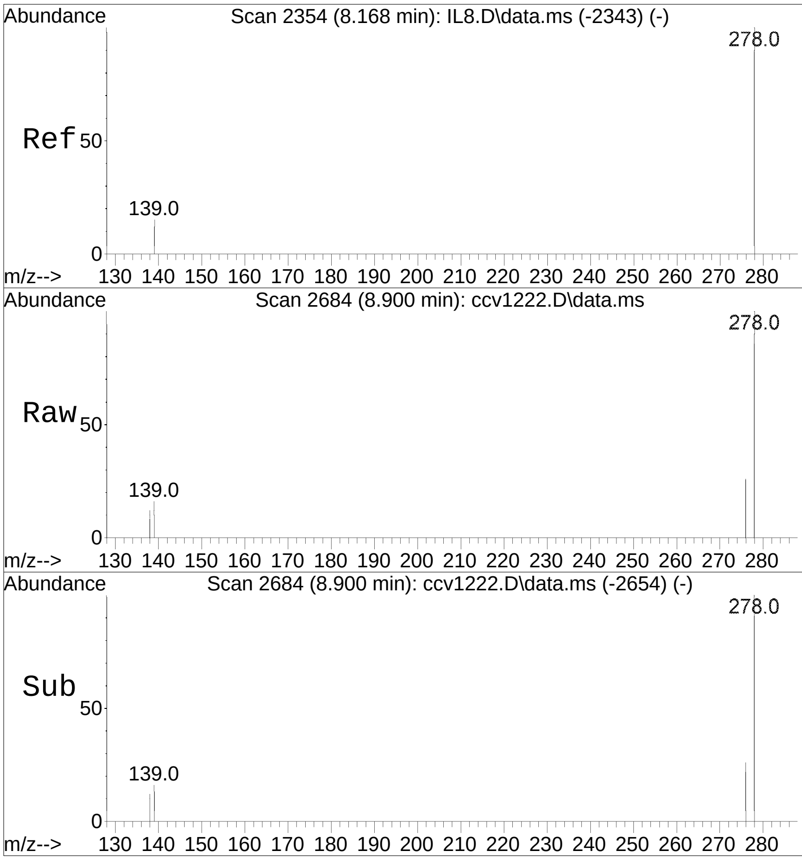



#40
Indeno[1,2,3-cd]pyrene
Concen: 1122.56 ng/ml
RT: 8.862 min Scan# 2670
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:276 Resp: 222394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 20.3 | 15.4 | 23.0 |

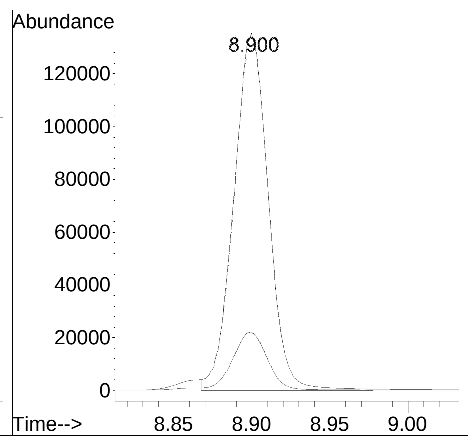


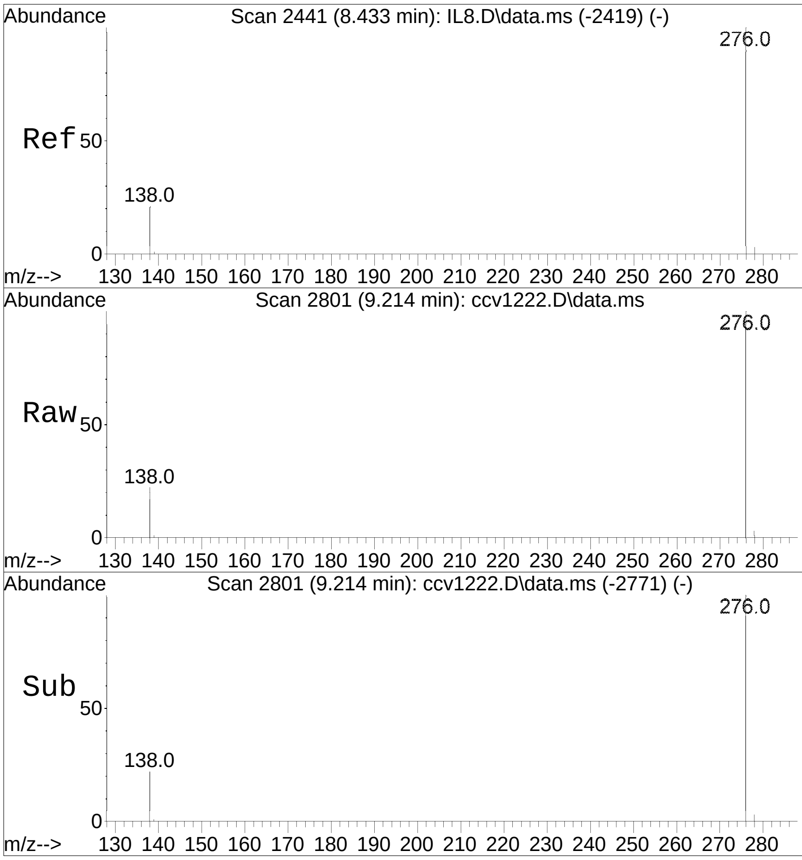



#41
Dibenzo[a,h]anthracene
Concen: 1112.92 ng/ml M6
RT: 8.900 min Scan# 2684
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:278 Resp: 207132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 16.9 | 13.0 | 19.6 |

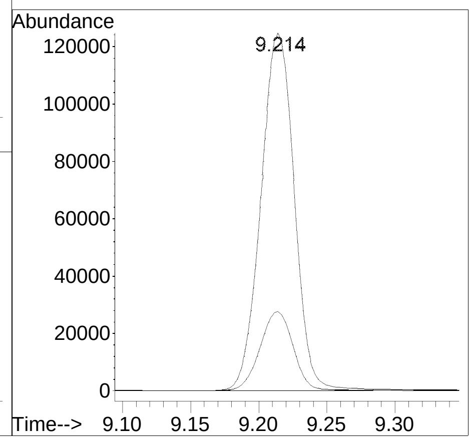





#42
Benzo[g,h,i]perylene
Concen: 1092.40 ng/ml
RT: 9.214 min Scan# 2801
Delta R.T. 0.000 min
Lab File: ccv1222.D
Acq: 22 Dec 2024 07:17 am

Tgt Ion:276 Resp: 210191

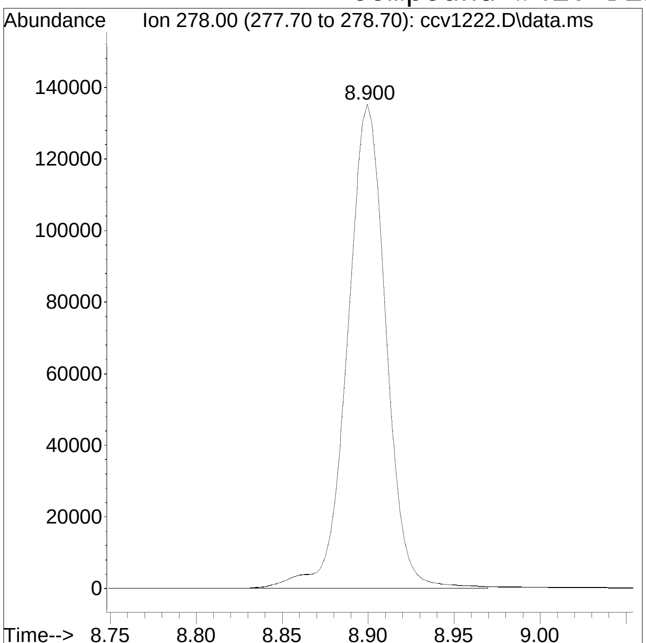
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 22.0 | 16.6 | 25.0 |

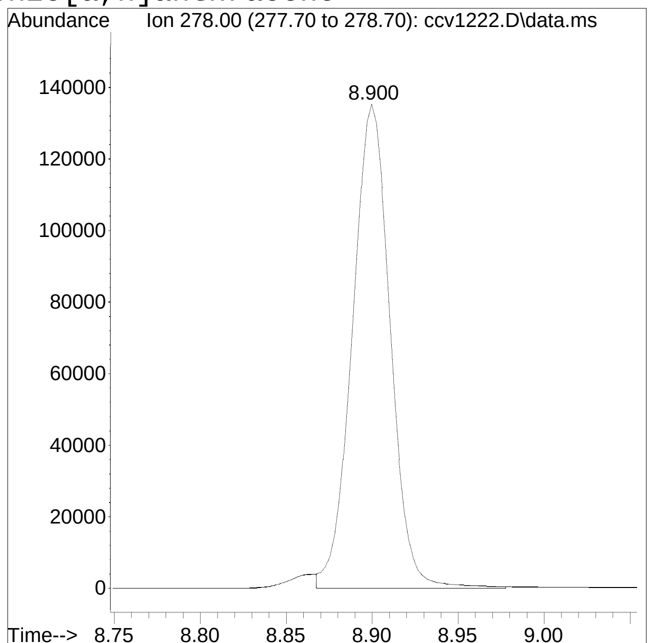


Manual Integration Report

Data Path : I:\8270SIM\sv120\241222RVTQ
Method : SIM-RVT_241105_sv120.M
Data File : ccv1222.D
Operator : SV120:dv
Date Inj'd : 12/22/2024 7:17 am
Instrument : SV120
Sample : WG2012326-3,32,,ICV 10884
Quant Date : 12/22/2024 7:38 am

Compound #41: Dibenzo[a,h]anthracene



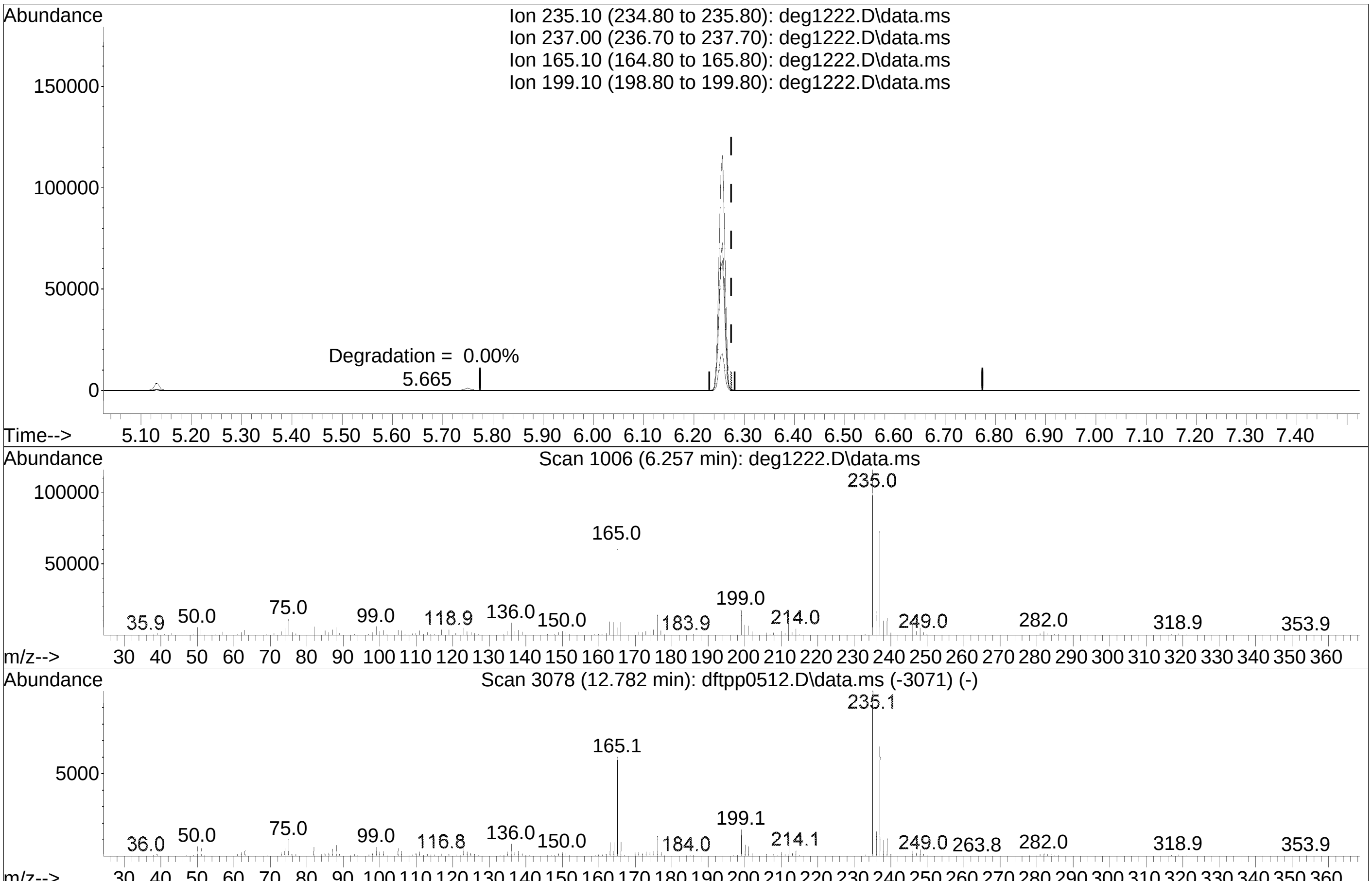

Original Peak Response = 210985
Manual Peak Response = 207132 M6

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

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\241222RVT\
Data File : deg1222.D
Acq On : 22 Dec 2024 06:59 am
Operator : SV120:dv
Sample : WG2012326-2,32,, dftpp SV120 lot#11165
Misc : WG2012326,,ical21668
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 22 07:14:00 2024
Quant Method : I:\8270SIM\sv120\241222RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Nov 23 13:40:48 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D




CHROMtools [WG2012326-2,32,, dftpp SV120 lot#11165]

(6) ddt (T)

6.257min (-0.018) 14.76

response 89980

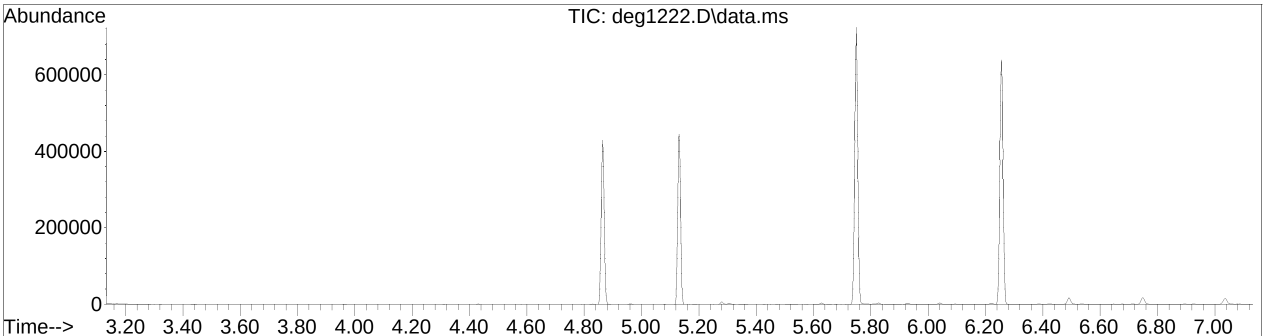
| Ion | Exp% | Act% |
|---|---|---|
| 235.10 | 100.00 | 100.00 |
| 237.00 | 65.60 | 62.79 |
| 165.10 | 53.30 | 55.67 |
| 199.10 | 17.10 | 15.51 |

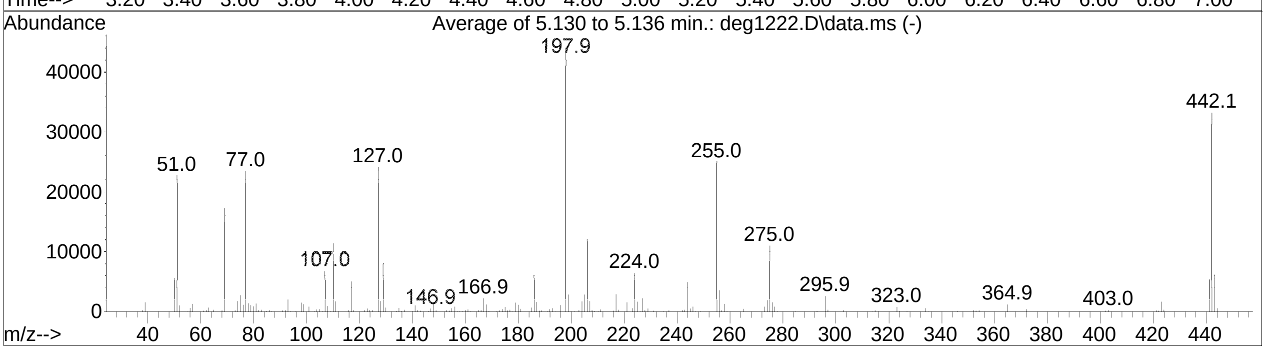
DFTPP

Data Path : I:\8270SIM\sv120\241222RVT\
Data File : deg1222.D
Acq On : 22 Dec 2024 06:59 am
Operator : SV120:dv
Sample : WG2012326-1,32,, dftpp SV120 lot#11165
Misc : WG2012326,,ical21668
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\241222RVT\SIM-RVT_241105_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Sun Dec 22 07:37:54 2024



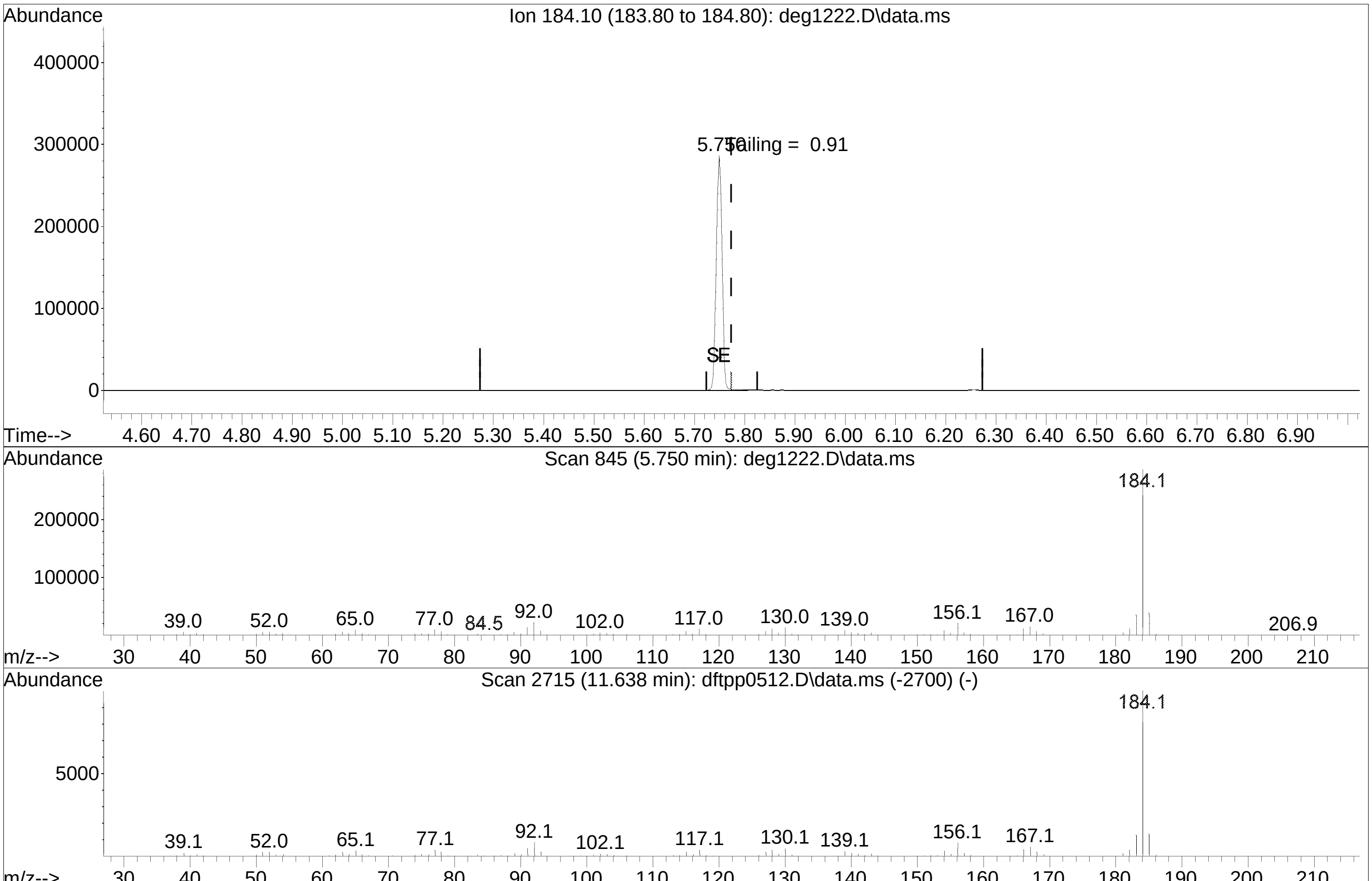

Spectrum Information: Average of 5.130 to 5.136 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 51.7 | 22761 | PASS |
| 68 | 69 | 0.00 | 2 | 1.6 | 282 | PASS |
| 69 | 69 | 100 | 100 | 100.0 | 17175 | PASS |
| 70 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 127 | 198 | 10 | 80 | 54.7 | 24109 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 44053 | PASS |
| 199 | 198 | 5 | 9 | 6.6 | 2890 | PASS |
| 275 | 198 | 10 | 60 | 24.9 | 10986 | PASS |
| 365 | 198 | 1 | 100 | 2.8 | 1230 | PASS |
| 441 | 442 | 0.01 | 24 | 16.4 | 5445 | PASS |
| 442 | 198 | 50 | 100 | 75.4 | 33205 | PASS |
| 443 | 442 | 15 | 24 | 18.8 | 6230 | PASS |

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\241222RVT\
Data File : deg1222.D
Acq On : 22 Dec 2024 06:59 am
Operator : SV120:dv
Sample : WG2012326-4,32,, dftpp SV120 lot#11165
Misc : WG2012326,,ical21668
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 22 07:14:00 2024
Quant Method : I:\8270SIM\sv120\241222RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Nov 23 13:40:48 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D




CHROMtools [WG2012326-4,32,, dftpp SV120 lot#11165]

(3) benzidine (T)

5.750min (-0.024) 21.47

response 218566

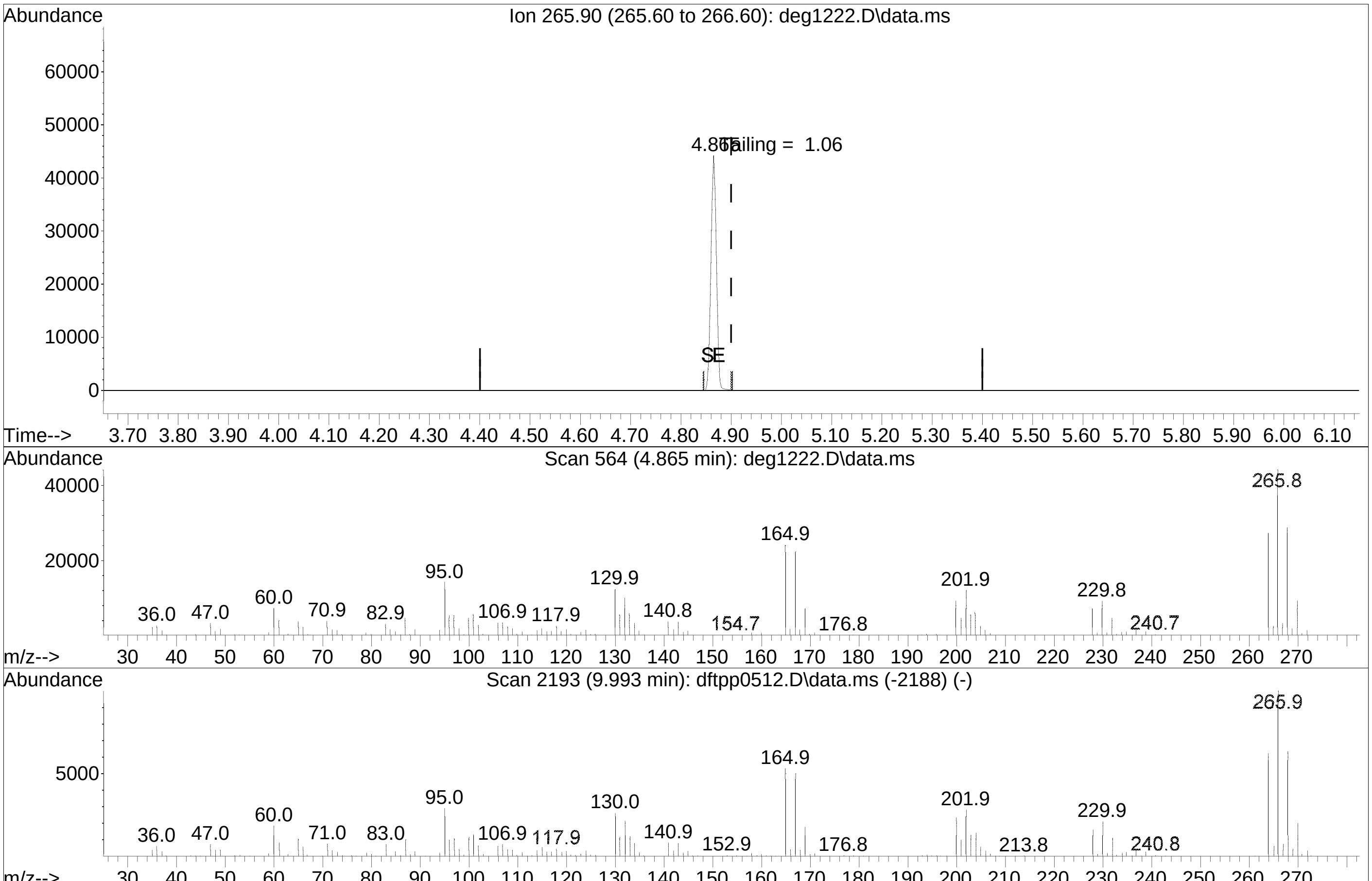
| Ion | Exp% | Act% |
|---|---|---|
| 184.10 | 100.00 | 100.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

dftppsv120.m Mon Dec 23 10:08:43 2024 Page: 1

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\241222RVT\
Data File : deg1222.D
Acq On : 22 Dec 2024 06:59 am
Operator : SV120:dv
Sample : WG2012326-5,32,, dftpp SV120 lot#11165
Misc : WG2012326,,ical21668
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 22 07:14:00 2024
Quant Method : I:\8270SIM\sv120\241222RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Nov 23 13:40:48 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D




CHROMtools™ [WG2012326-5,32,, dftpp SV120 lot#11165]

(1) pentachlorophenol (T)

4.865min (-0.036) 15.52

response 32606

| 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 |

dftppsv120.m Mon Dec 23 10:09:14 2024 Page: 1

# Semivolatiles Raw QC Data

Quantitation Report    (QT Reviewed)

```
Data Path : I:\8270SIM\sv120\241222RVT\
Data File : 012049-1.D
Acq On    : 22 Dec 2024  12:51 pm
Operator  : SV120:slr
Sample    : WG2012049-1,32,,kmh
Misc      : WG2012326,WG2012049,ical21668
ALS Vial  : 19   Sample Multiplier: 1

Quant Time: Dec 23 10:41:29 2024
Quant Method : I:\8270sim\sv120\241222RVT\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 22 07:37:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\241222RVT\ccv1222.D
Sub List     : DEFAULT - All compounds listed

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4      2.303  152    204193   4000.000 ng/ml    0.00
   Standard Area 1 = 191989                 Recovery   =  106.36%
 8) Naphthalene-d8              2.961  136    793610   4000.000 ng/ml    0.00
   Standard Area 1 = 758028                 Recovery   =  104.69%
17) Acenaphthene-d10            3.938  164    447986   4000.000 ng/ml    0.00
   Standard Area 1 = 435714                 Recovery   =  102.82%
22) Phenanthrene-d10            4.783  188    856576   4000.000 ng/ml    0.00
   Standard Area 1 = 854489                 Recovery   =  100.24%
31) Chrysene-d12                6.349  240    789332   4000.000 ng/ml   -0.01
   Standard Area 1 = 780818                 Recovery   =  101.09%
36) Perylene-d12                7.596  264    736918   4000.000 ng/ml   -0.01
   Standard Area 1 = 779548                 Recovery   =   94.53%

 System Monitoring Compounds
 2) 2-Fluorophenol              1.729  112     57054   949.259 ng/ml   0.01
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   47.46%
 3) Phenol-d6                   2.117   99     52609   712.364 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   35.62%
 7) Nitrobenzene-d5             2.581   82     53617   822.391 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   82.24%
13) 2-Fluorobiphenyl            3.557  172    123814   774.047 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   77.40%
21) 2,4,6-Tribromophenol        4.387  330     26360   1478.118 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   73.91%
30) 4-Terphenyl-d14             5.701  244    153684   986.713 ng/ml   0.00
   Spiked Amount   2000.000   Range  30 - 130    Recovery   =   49.34%

 Target Compounds                                                 Qvalue
 4) Bis(2-chloroethyl)ether     0.000                  0       N.D. d
 6) Hexachloroethane            0.000                  0       N.D. d
 9) Naphthalene                 2.972  128          957m     4.824 ng/ml
10) Hexachlorobutadiene         0.000                  0       N.D.
11) 2-Methylnaphthalene         0.000                  0       N.D. d
14) 2-Chloronaphthalene         0.000                  0       N.D. d
16) Acenaphthylene              0.000                  0       N.D. d
18) Acenaphthene                0.000                  0       N.D. d
20) Fluorene                    0.000                  0       N.D. d
24) Hexachlorobenzene           0.000                  0       N.D. d
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241222RVT\
Data File : 012049-1.D
Acq On : 22 Dec 2024 12:51 pm
Operator : SV120:slr
Sample : WG2012049-1,32,,kmh
Misc : WG2012326,WG2012049,ical21668
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 23 10:41:29 2024
Quant Method : I:\8270sim\sv120\241222RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 22 07:37:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\241222RVT\ccv1222.D
Sub List : DEFAULT - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 25) Pentachlorophenol | 0.000 | | 0 | N.D. d | |
| 26) Phenanthrene | 0.000 | | 0 | N.D. d | |
| 27) Anthracene | 0.000 | | 0 | N.D. d | |
| 28) Fluoranthene | 0.000 | | 0 | N.D. d | |
| 29) Pyrene | 0.000 | | 0 | N.D. d | |
| 32) Benzo[a]anthracene | 0.000 | | 0 | N.D. d | |
| 34) Chrysene | 0.000 | | 0 | N.D. d | |
| 37) Benzo[b]fluoranthene | 0.000 | | 0 | N.D. d | |
| 38) Benzo[k]fluoranthene | 0.000 | | 0 | N.D. d | |
| 39) Benzo[a]pyrene | 0.000 | | 0 | N.D. d | |
| 40) Indeno[1,2,3-cd]pyrene | 0.000 | | 0 | N.D. d | |
| 41) Dibenzo[a,h]anthracene | 0.000 | | 0 | N.D. d | |
| 42) Benzo[g,h,i]perylene | 0.000 | | 0 | N.D. d | |

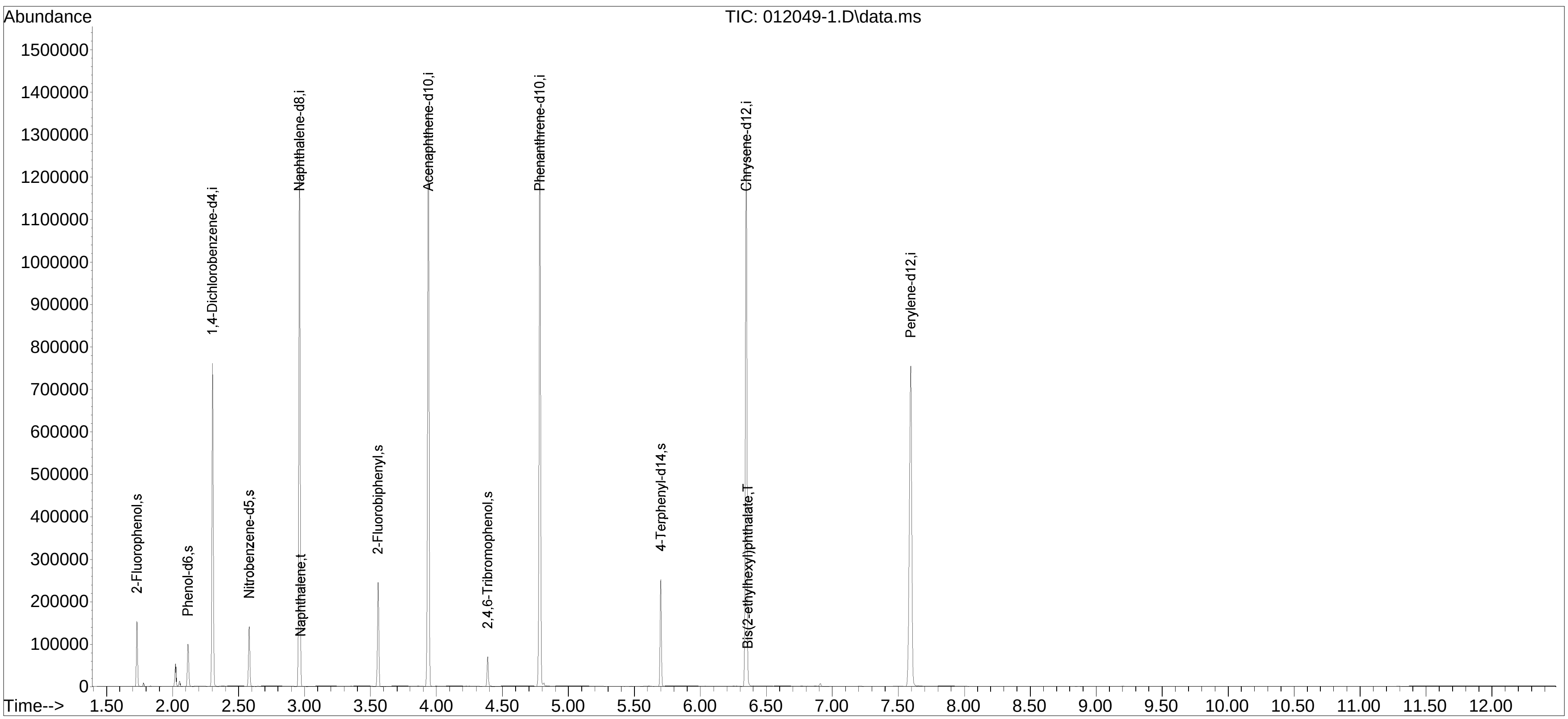
(#) = qualifier out of range (m) = manual integration (+) = signals summed

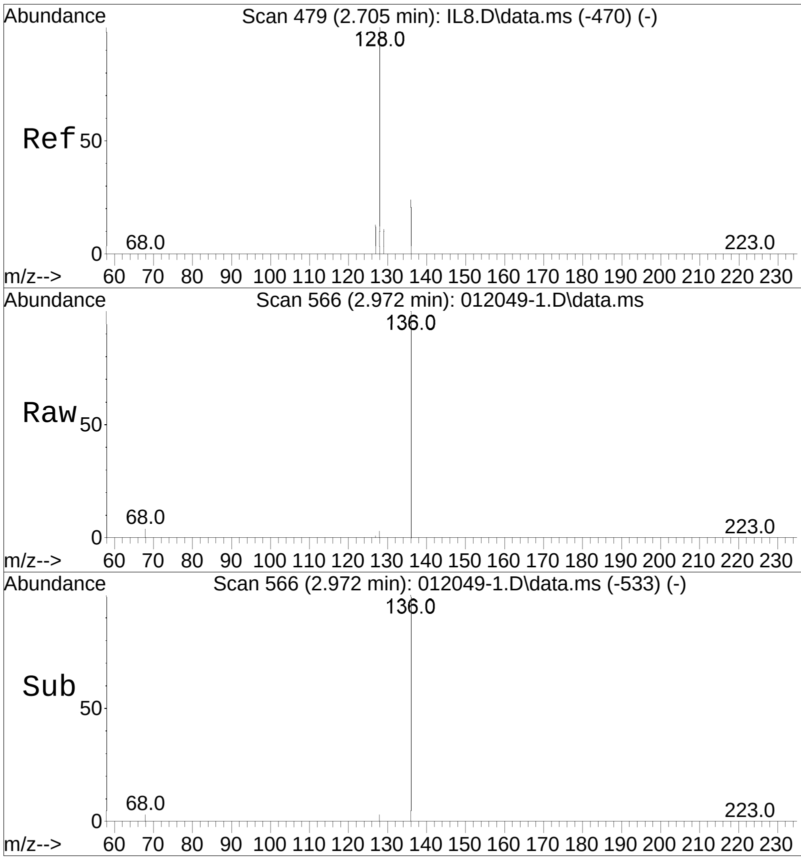
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241222RVT\
Data File : 012049-1.D
Acq On : 22 Dec 2024 12:51 pm
Operator : SV120:slr
Sample : WG2012049-1,32,,kmh
Misc : WG2012326,WG2012049,ical21668
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 23 10:41:29 2024
Quant Method : I:\8270sim\sv120\241222RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 22 07:37:54 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1222.D•

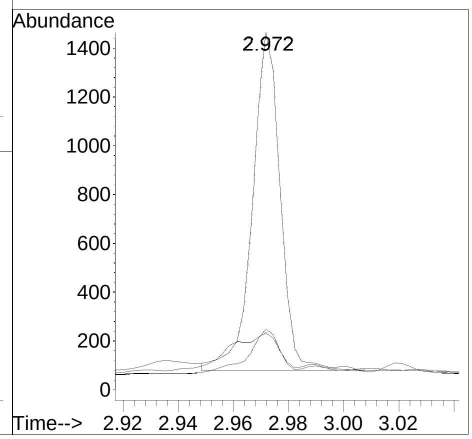





#9
Naphthalene
Concen: 4.82 ng/ml m
RT: 2.972 min Scan# 566
Delta R.T. 0.005 min
Lab File: 012049-1.D
Acq: 22 Dec 2024 12:51 pm

Tgt Ion:128 Resp: 957

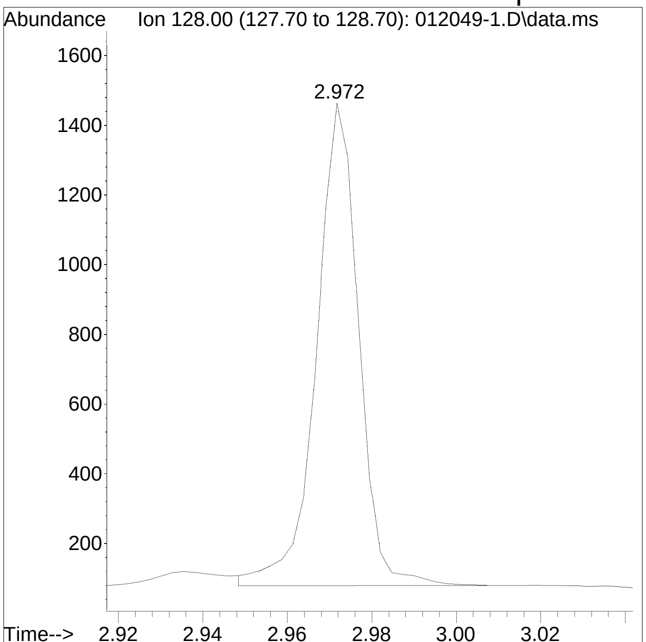
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.2 | 8.9 | 13.3 |
| 127 | 15.7 | 10.7 | 16.1 |



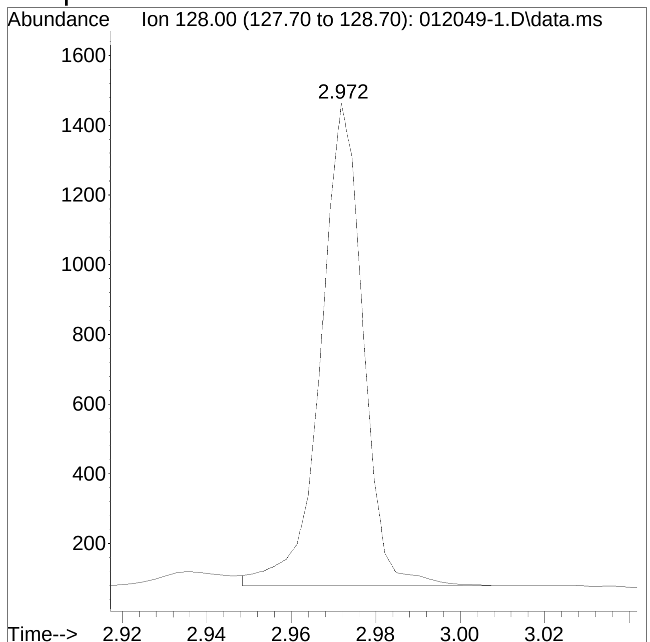
Manual Integration Report

| | | | |
|---|---|---|---|
| Data Path | : I:\8270SIM\sv120\241222RVTQ | Method | : SIM-RVT_241105_sv120.M |
| Data File | : 012049-1.D | Operator | : SV120:slr |
| Date Inj'd | : 12/22/2024 12:51 pm | Instrument | : SV120 |
| Sample | : WG2012049-1,32,,kmh | Quant Date | : 12/22/2024 1:04 pm |

Compound #9: Naphthalene




Original Peak Response = 957




Manual Peak Response = 957 m

Quantitation Report    (QT Reviewed)

```
Data Path : I:\8270SIM\sv120\241222RVT\
Data File : 012049-2.D
Acq On    : 22 Dec 2024  12:18 pm
Operator  : SV120:slr
Sample    : WG2012049-2,32,,kmh
Misc      : WG2012326,WG2012049,ical21668
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Dec 22 12:30:42 2024
Quant Method : I:\8270sim\sv120\241222RVT\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 22 07:37:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\241222RVT\ccv1222.D
Sub List     : DEFAULT - All compounds listed

        Compound                    R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dichlorobenzene-d4      2.303  152    216097   4000.000 ng/ml    0.00
   Standard Area 1 = 191989                Recovery   =  112.56%
 8) Naphthalene-d8              2.961  136    874941   4000.000 ng/ml  # 0.00
   Standard Area 1 = 758028                Recovery   =  115.42%
17) Acenaphthene-d10            3.941  164    470836   4000.000 ng/ml    0.00
   Standard Area 1 = 435714                Recovery   =  108.06%
22) Phenanthrene-d10            4.786  188    894243   4000.000 ng/ml    0.00
   Standard Area 1 = 854489                Recovery   =  104.65%
31) Chrysene-d12                6.351  240    759174   4000.000 ng/ml    0.00
   Standard Area 1 = 780818                Recovery   =   97.23%
36) Perylene-d12                7.599  264    762913   4000.000 ng/ml   -0.01
   Standard Area 1 = 779548                Recovery   =   97.87%

 System Monitoring Compounds
 2) 2-Fluorophenol              1.734  112     73050   1148.447 ng/ml   0.02
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   57.42%
 3) Phenol-d6                   2.120   99     68281   873.643 ng/ml   0.01
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =   43.68%
 7) Nitrobenzene-d5             2.581   82     56478   818.554 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   81.86%
13) 2-Fluorobiphenyl            3.557  172    136014   771.276 ng/ml   0.00
   Spiked Amount   1000.000   Range  30 - 130    Recovery   =   77.13%
21) 2,4,6-Tribromophenol        4.389  330     40616   2166.983 ng/ml   0.00
   Spiked Amount   2000.000   Range  15 - 110    Recovery   =  108.35%
30) 4-Terphenyl-d14             5.701  244    157883   970.974 ng/ml   0.00
   Spiked Amount   2000.000   Range  30 - 130    Recovery   =   48.55%

 Target Compounds                                                  Qvalue
 4) Bis(2-chloroethyl)ether     2.165   93     101320   1548.074 ng/ml     99
 6) Hexachloroethane            2.559  117      38246   1351.895 ng/ml     99
 9) Naphthalene                 2.972  128     331678   1516.473 ng/ml     98
10) Hexachlorobutadiene         3.042  225      55127   1330.192 ng/ml    100
11) 2-Methylnaphthalene         3.351  142     232795   1533.112 ng/ml    100
14) 2-Chloronaphthalene         3.624  162     235357   1561.400 ng/ml     92
16) Acenaphthylene              3.858  152     362377   1667.438 ng/ml    100
18) Acenaphthene                3.958  153     251623   1770.513 ng/ml     95
20) Fluorene                    4.251  166     295592   1922.190 ng/ml     99
24) Hexachlorobenzene           4.570  284      96768   2048.624 ng/ml     99
```

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241222RVT\
Data File : 012049-2.D
Acq On : 22 Dec 2024 12:18 pm
Operator : SV120:slr
Sample : WG2012049-2,32,,kmh
Misc : WG2012326,WG2012049,ical21668
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 22 12:30:42 2024
Quant Method : I:\8270sim\sv120\241222RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 22 07:37:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\241222RVT\ccv1222.D
Sub List : DEFAULT - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 25) Pentachlorophenol | 4.681 | 266 | 51447 | 1908.871 ng/ml | 99 |
| 26) Phenanthrene | 4.797 | 178 | 446047 | 2093.127 ng/ml | 100 |
| 27) Anthracene | 4.825 | 178 | 446633 | 2025.746 ng/ml | 100 |
| 28) Fluoranthene | 5.479 | 202 | 530238 | 2160.319 ng/ml | 99 |
| 29) Pyrene | 5.611 | 202 | 548104 | 2165.624 ng/ml | 100 |
| 32) Benzo[a]anthracene | 6.344 | 228 | 503230 | 2169.217 ng/ml | 98 |
| 34) Chrysene | 6.369 | 228 | 477640 | 2376.533 ng/ml | 100 |
| 37) Benzo[b]fluoranthene | 7.211 | 252 | 480822 | 2077.052 ng/ml | 97 |
| 38) Benzo[k]fluoranthene | 7.239 | 252 | 473820 | 2276.804 ng/ml | 97 |
| 39) Benzo[a]pyrene | 7.531 | 252 | 423249 | 2232.187 ng/ml | 100 |
| 40) Indeno[1,2,3-cd]pyrene | 8.860 | 276 | 449655 | 2319.183 ng/ml | 98 |
| 41) Dibenzo[a,h]anthracene | 8.898 | 278 | 413877 | 2272.249 ng/ml | 99 |
| 42) Benzo[g,h,i]perylene | 9.215 | 276 | 413656 | 2196.724 ng/ml | 97 |

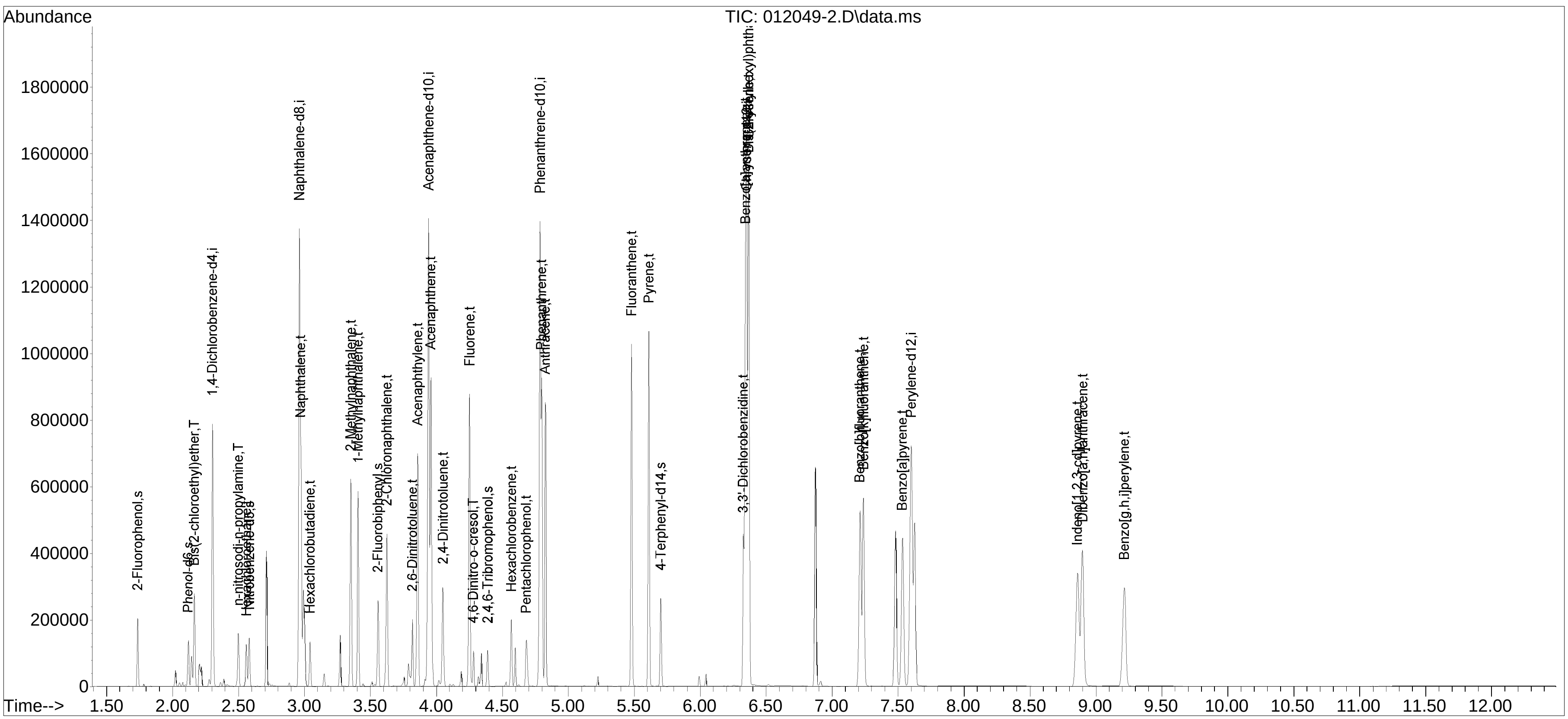
(#) = qualifier out of range (m) = manual integration (+) = signals summed

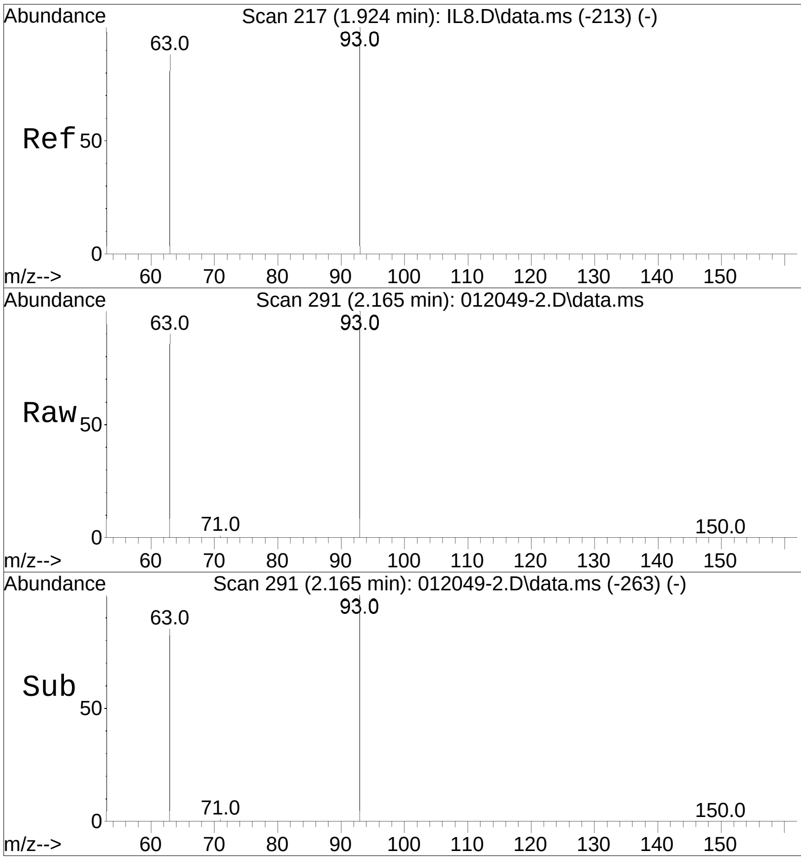
Quantitation Report    (QT Reviewed)

Data Path : I:\8270SIM\sv120\241222RVT\
Data File : 012049-2.D
Acq On    : 22 Dec 2024  12:18 pm
Operator  : SV120:slr
Sample    : WG2012049-2,32,,kmh
Misc      : WG2012326,WG2012049,ical21668
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Dec 22 12:30:42 2024
Quant Method : I:\8270sim\sv120\241222RVT\SIM-RVT_241105_sv120.M
Quant Title  : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 22 07:37:54 2024
Response via : Initial Calibration

Sub List     : DEFAULT - All compounds listed\ccv1222.D•

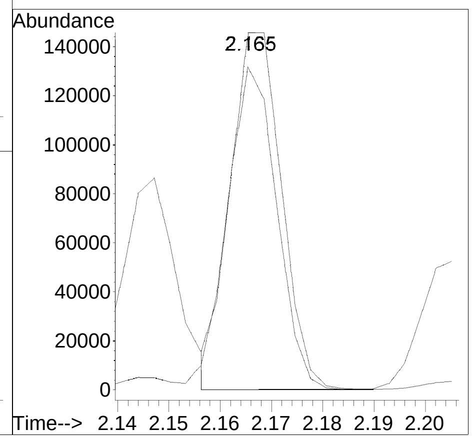


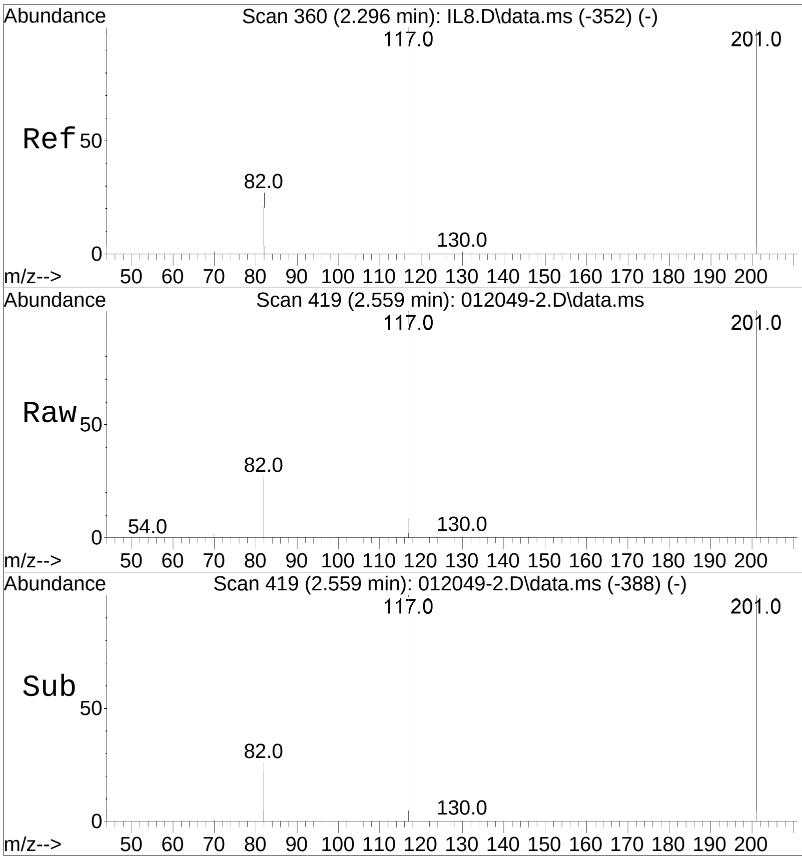



#4
Bis(2-chloroethyl)ether
Concen: 1548.07 ng/ml
RT: 2.165 min Scan# 291
Delta R.T. 0.006 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion: 93 Resp: 101320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 87.1 | 68.7 | 103.1 |

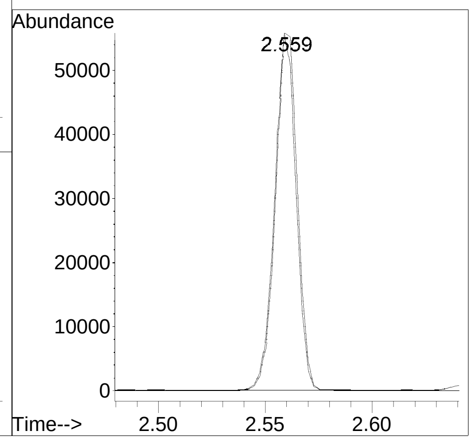


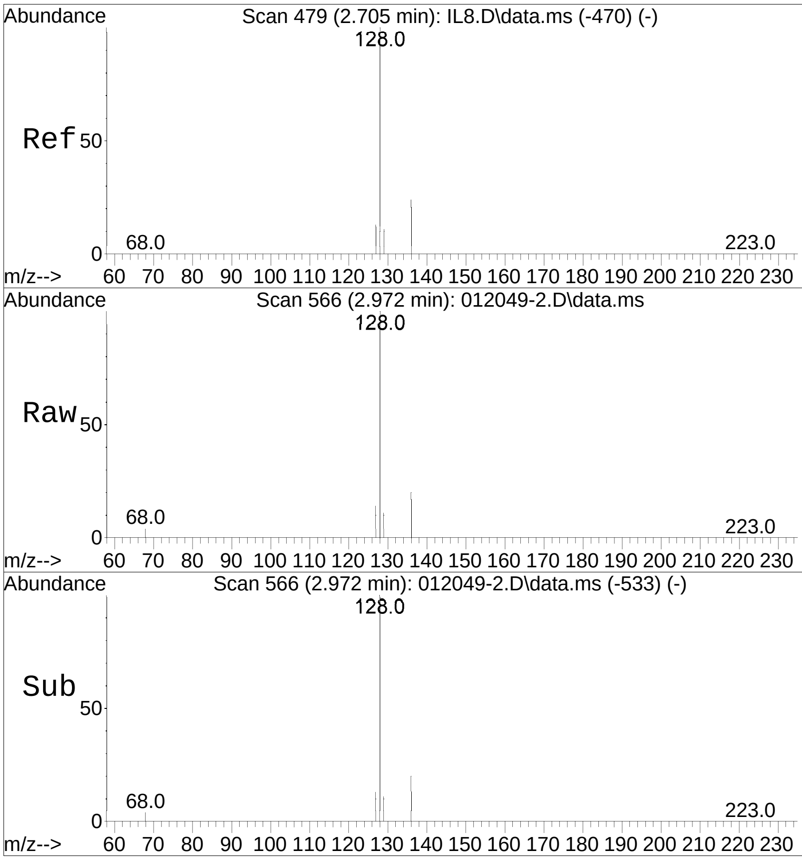



#6
Hexachloroethane
Concen: 1351.89 ng/ml
RT: 2.559 min Scan# 419
Delta R.T. 0.005 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:117 Resp: 38246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 103.1 | 82.0 | 123.0 |

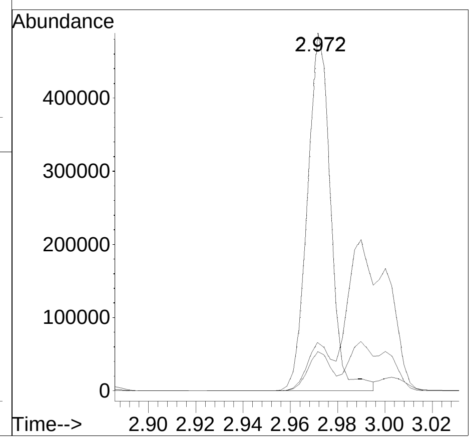


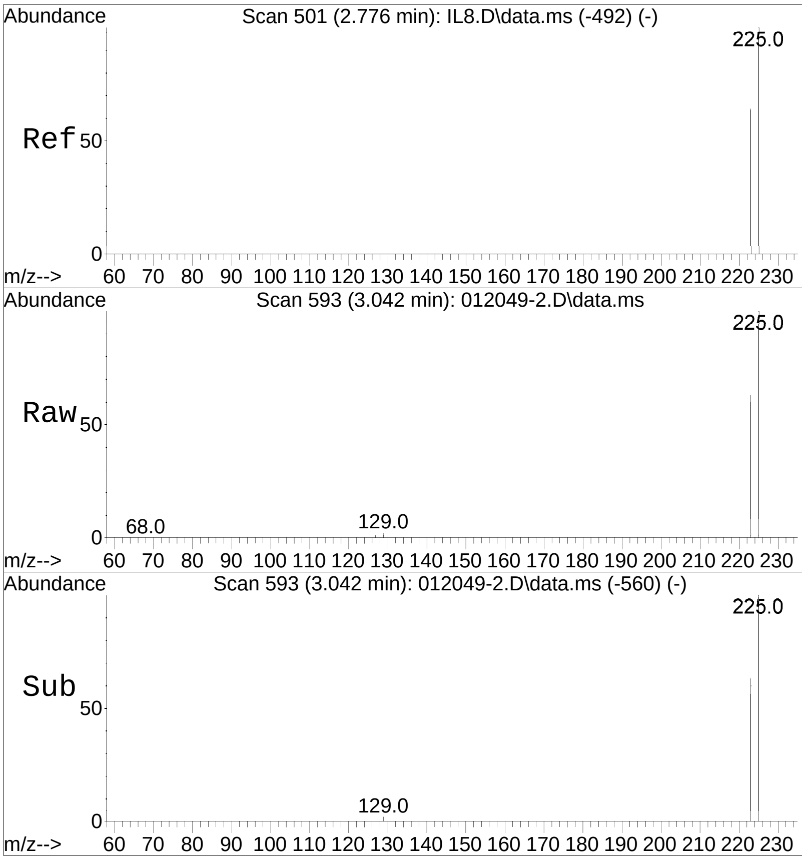



#9
Naphthalene
Concen: 1516.47 ng/ml
RT: 2.972 min Scan# 566
Delta R.T. 0.005 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:128 Resp: 331678

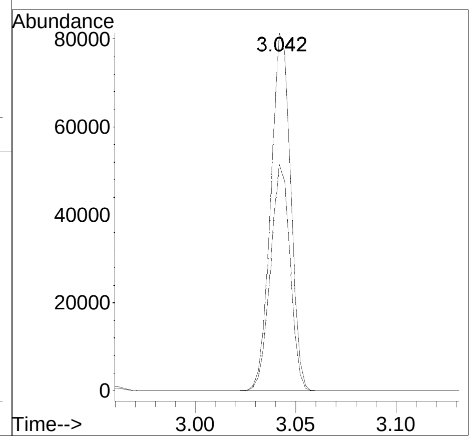
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.9 | 8.9 | 13.3 |
| 127 | 14.4 | 10.7 | 16.1 |

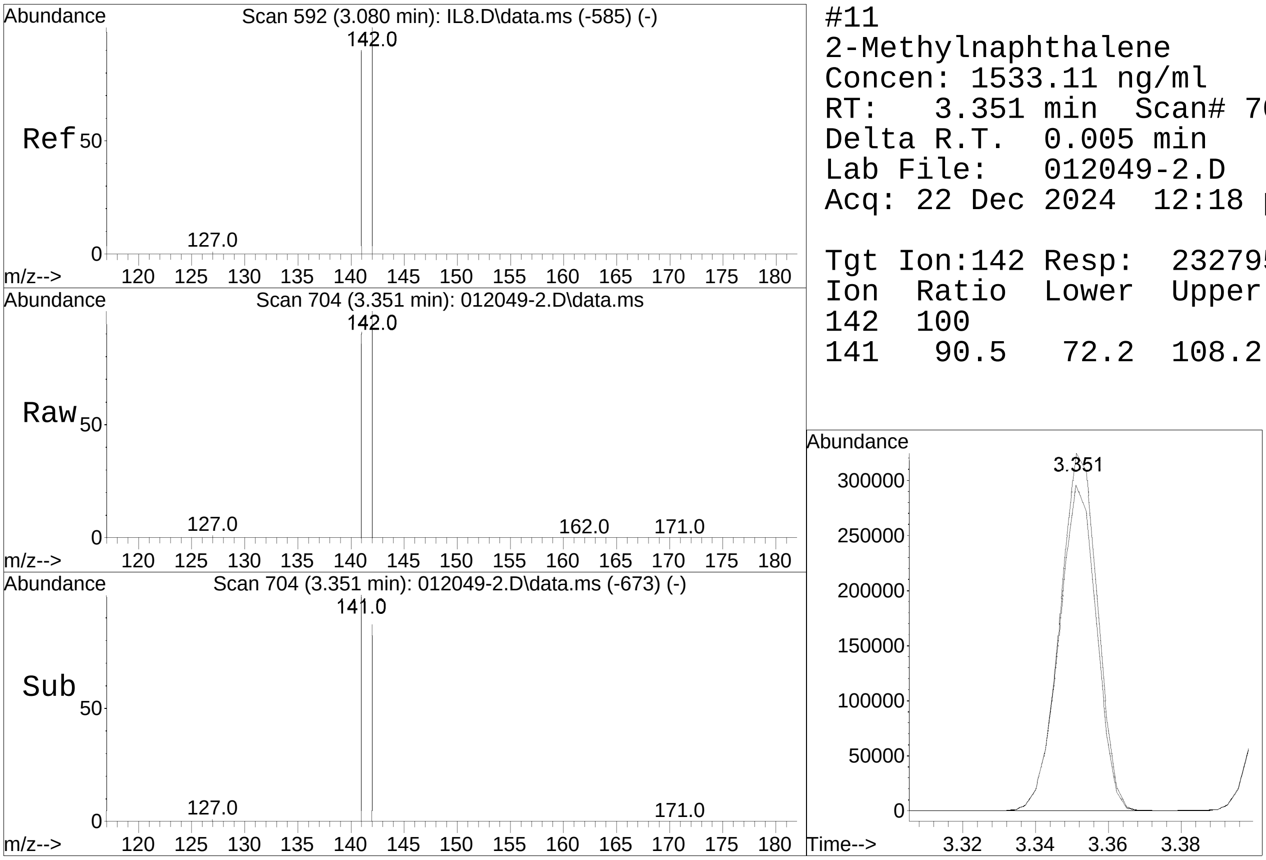





#10
Hexachlorobutadiene
Concen: 1330.19 ng/ml
RT: 3.042 min Scan# 593
Delta R.T. 0.005 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| Tgt Ion:225 | Resp: | | 55127 |
| 225 | 100 | | |
| 223 | 62.9 | 50.5 | 75.7 |

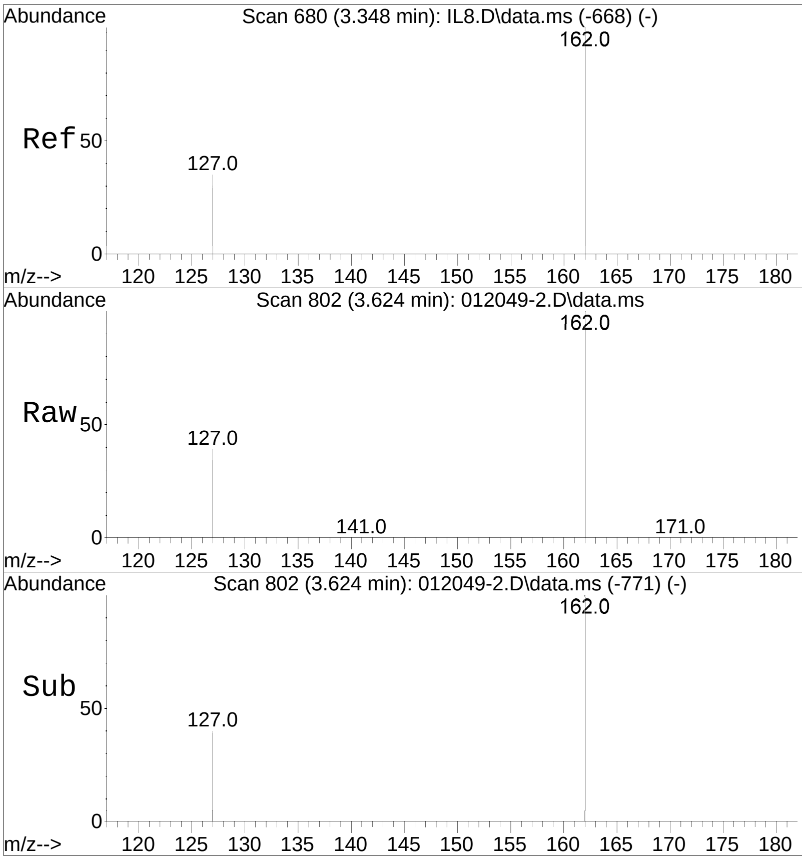





#11
2-Methylnaphthalene
Concen: 1533.11 ng/ml
RT: 3.351 min Scan# 704
Delta R.T. 0.005 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:142 Resp: 232795

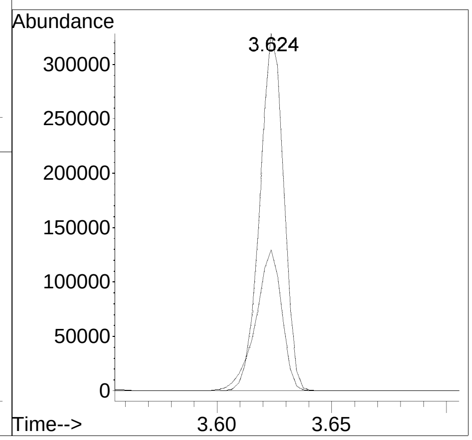
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.5 | 72.2 | 108.2 |

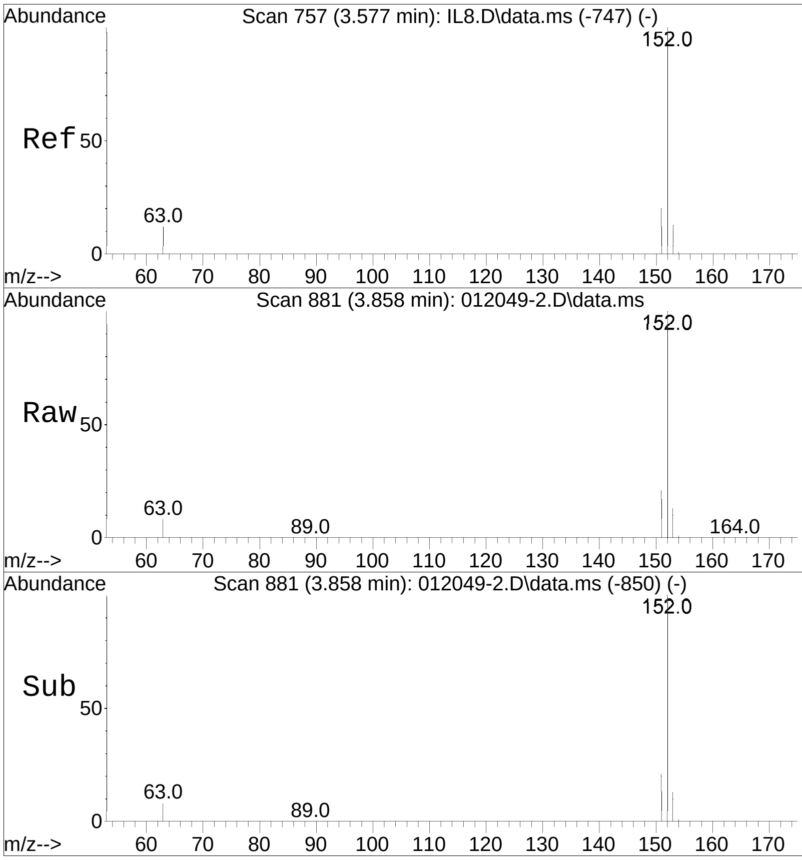



#14
2-Chloronaphthalene
Concen: 1561.40 ng/ml
RT: 3.624 min Scan# 802
Delta R.T. 0.005 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:162 Resp: 235357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 43.3 | 31.0 | 46.4 |

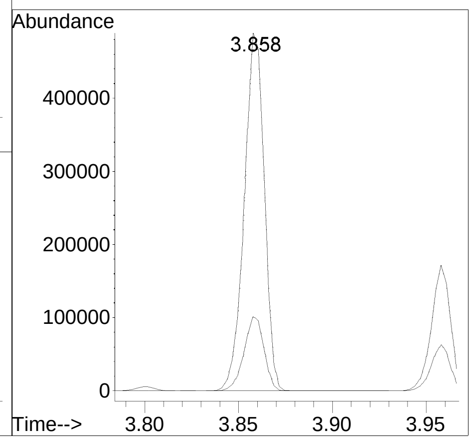


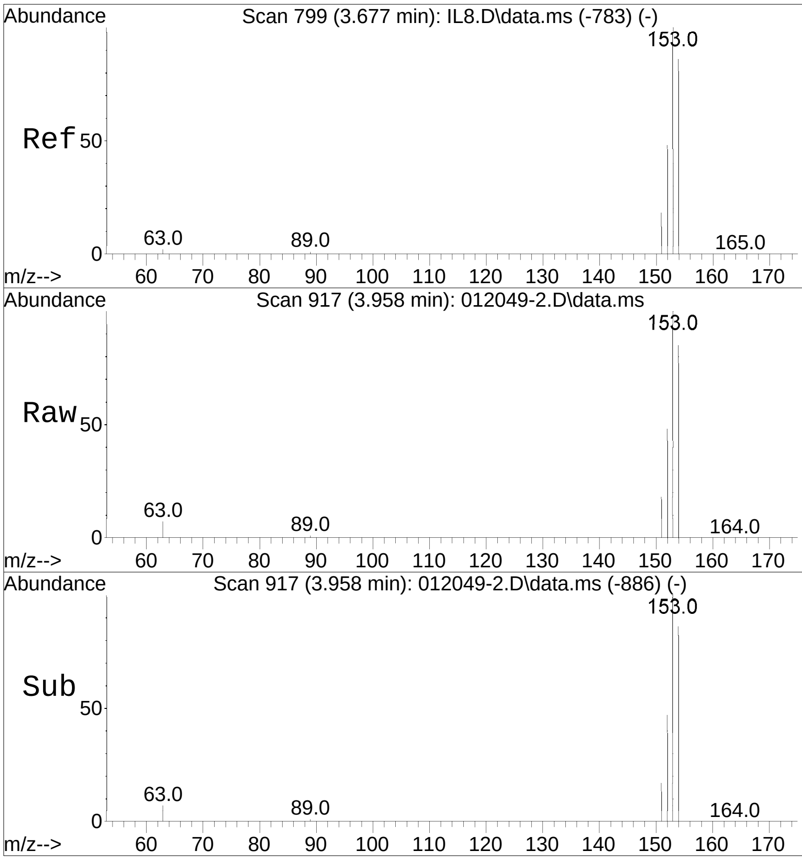



#16
Acenaphthylene
Concen: 1667.44 ng/ml
RT: 3.858 min Scan# 881
Delta R.T. 0.005 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:152 Resp: 362377

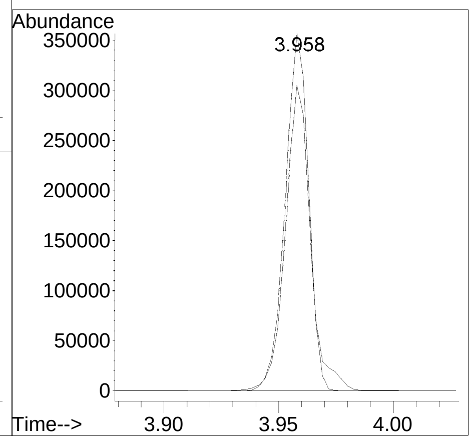
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.7 | 16.4 | 24.6 |

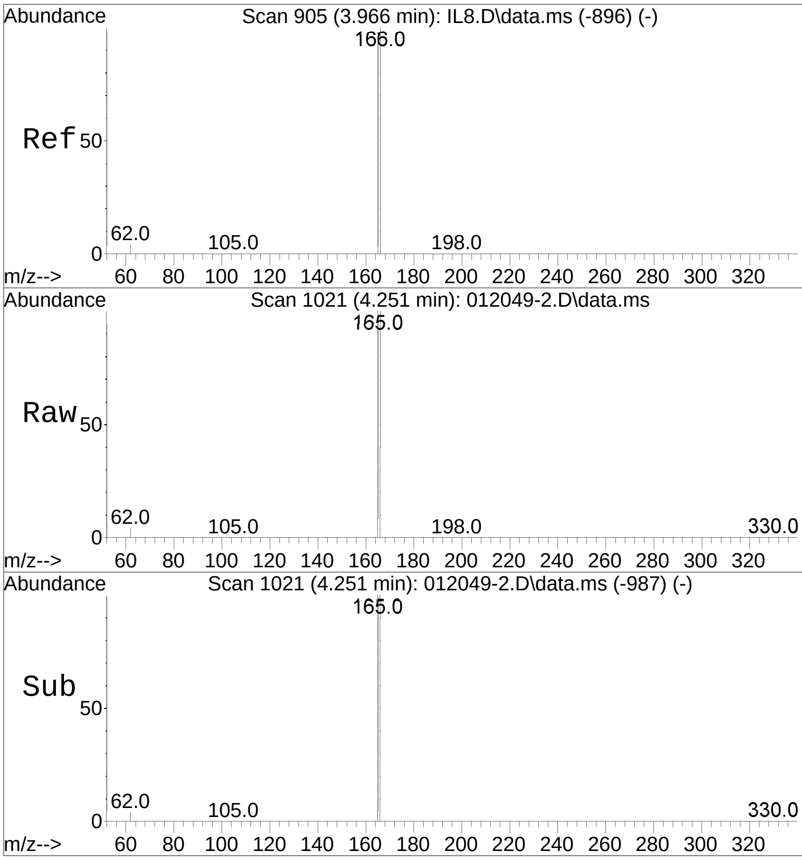





#18
Acenaphthene
Concen: 1770.51 ng/ml
RT: 3.958 min Scan# 917
Delta R.T. 0.005 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

| Tgt | Ion:153 | Resp: | 251623 |
|---|---|---|---|
| Ion | Ratio | Lower | Upper |
| 153 | 100 | | |
| 154 | 92.3 | 69.8 | 104.6 |

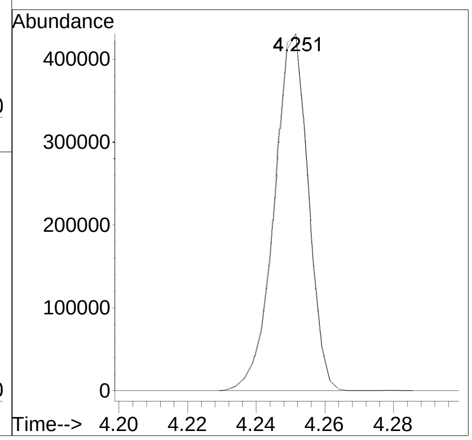


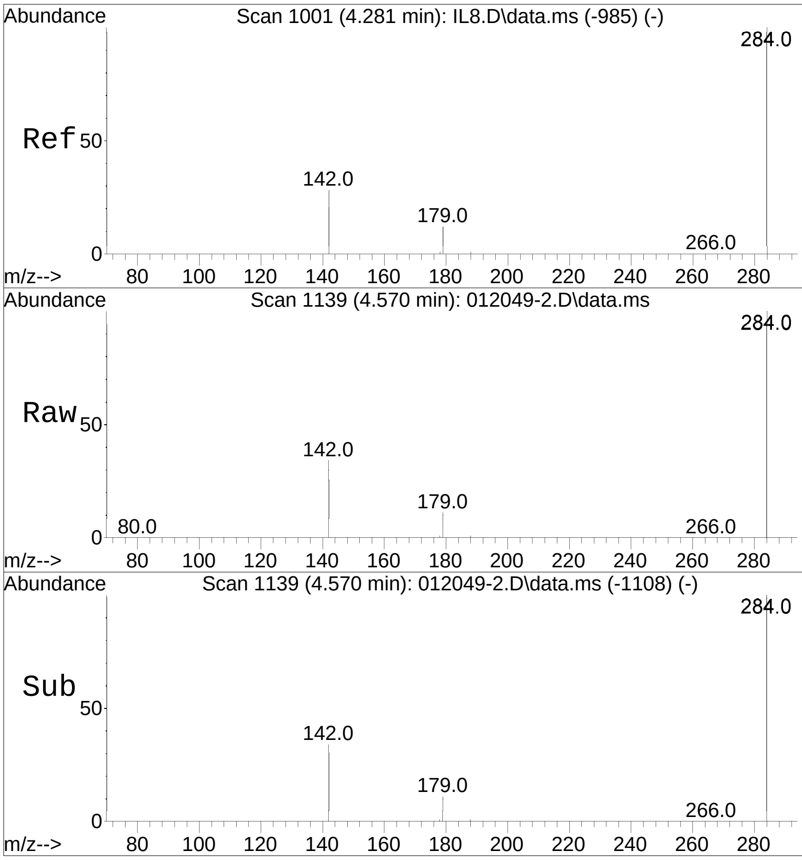



#20
Fluorene
Concen: 1922.19 ng/ml
RT: 4.251 min Scan# 1021
Delta R.T. 0.006 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:166 Resp: 295592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.7 | 80.1 | 120.1 |

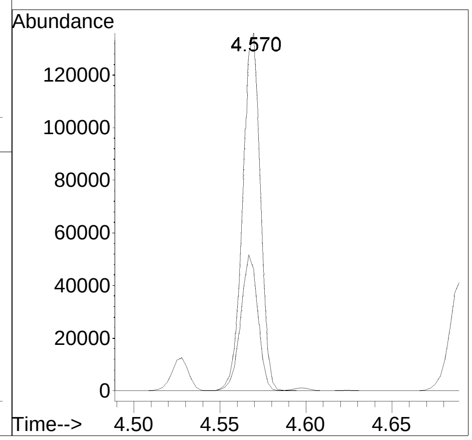


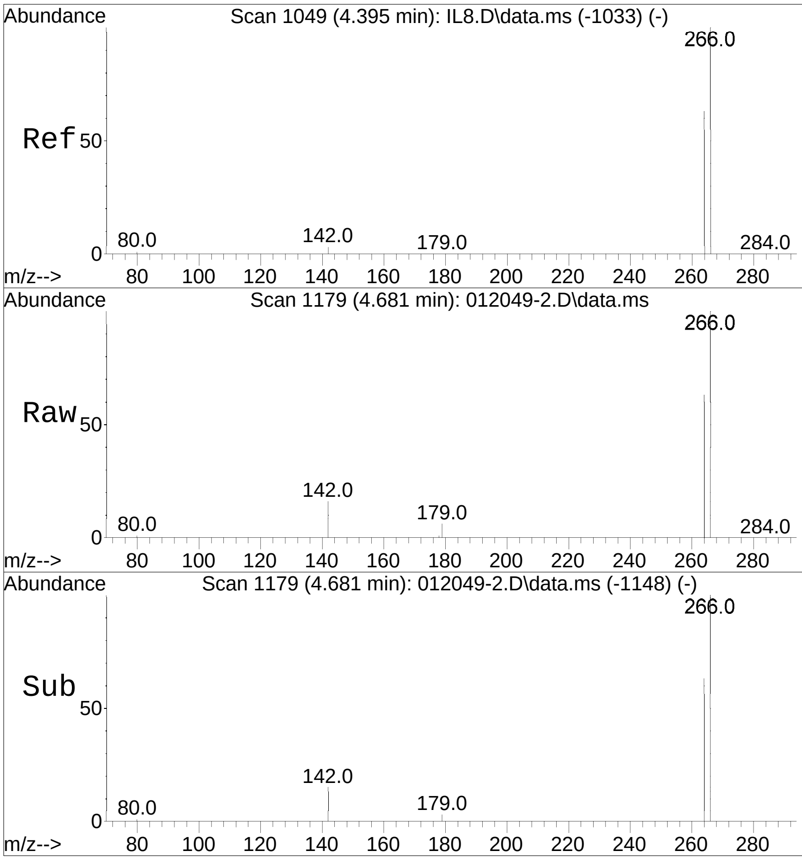



#24
Hexachlorobenzene
Concen: 2048.62 ng/ml
RT: 4.570 min Scan# 1139
Delta R.T. 0.006 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:284 Resp: 96768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 37.3 | 30.2 | 45.2 |

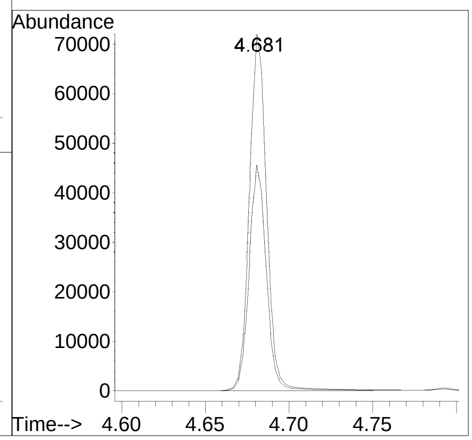


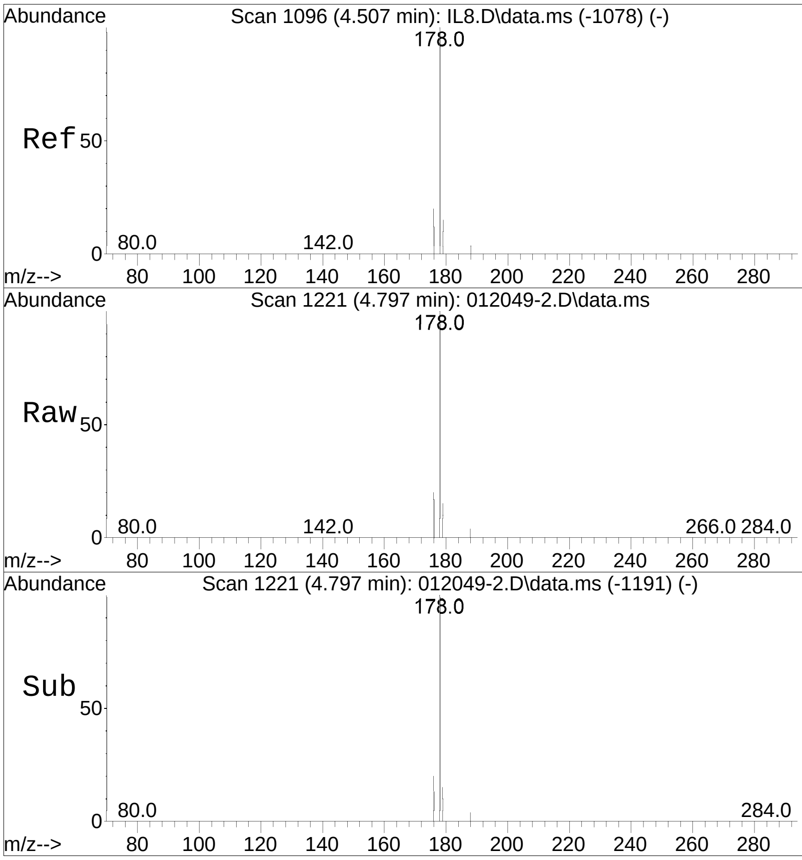



#25
Pentachlorophenol
Concen: 1908.87 ng/ml
RT: 4.681 min Scan# 1179
Delta R.T. 0.006 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:266 Resp: 51447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.3 | 50.3 | 75.5 |

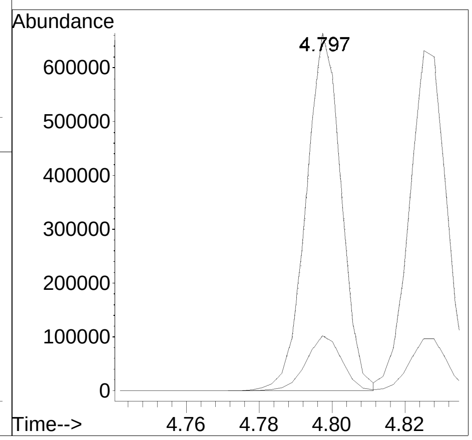


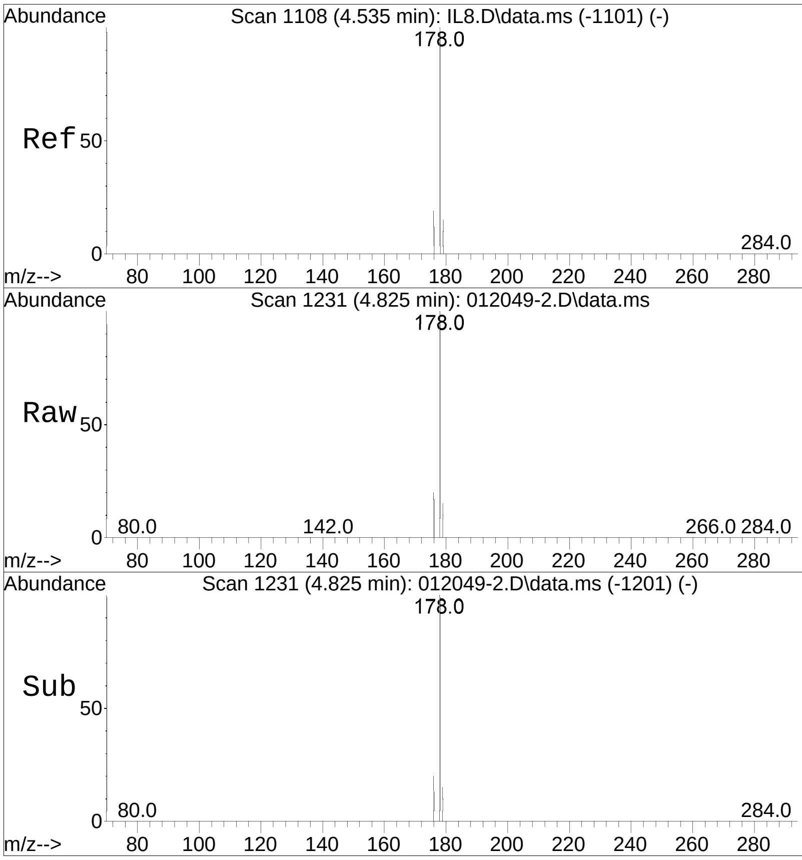



#26
Phenanthrene
Concen: 2093.13 ng/ml
RT: 4.797 min Scan# 1221
Delta R.T. 0.004 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:178 Resp: 446047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.5 | 12.5 | 18.7 |

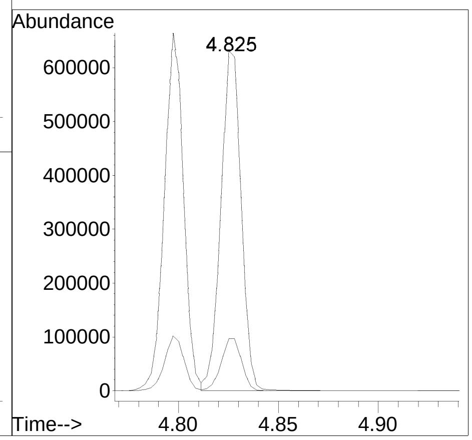


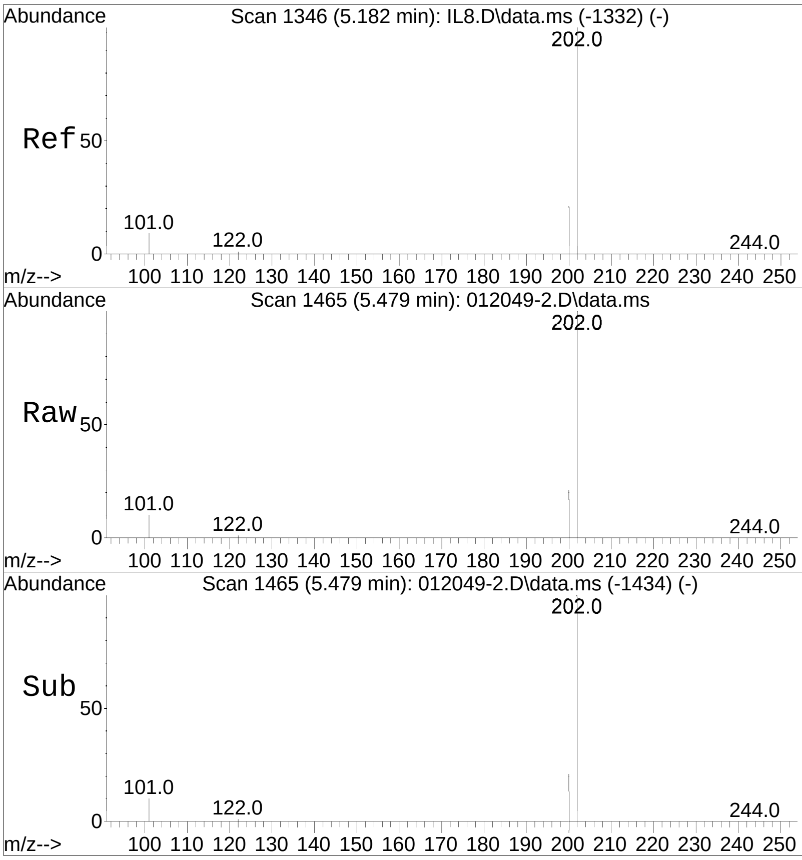



#27
Anthracene
Concen: 2025.75 ng/ml
RT: 4.825 min Scan# 1231
Delta R.T. 0.004 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:178 Resp: 446633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.4 | 12.3 | 18.5 |

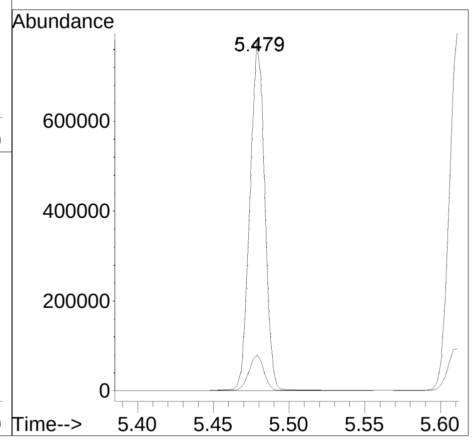


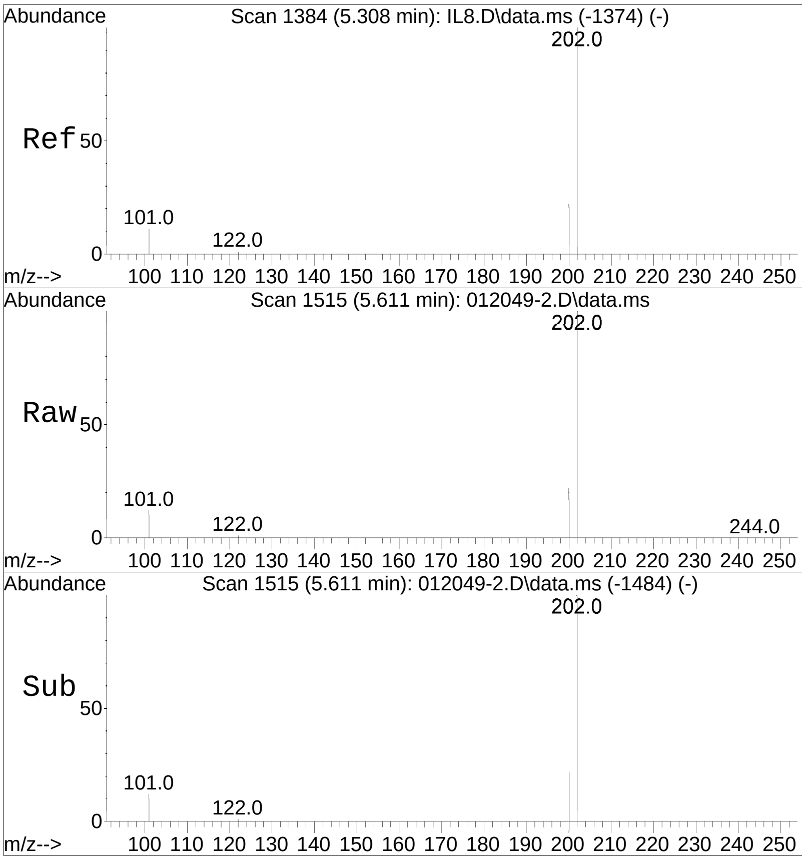



#28
Fluoranthene
Concen: 2160.32 ng/ml
RT: 5.479 min Scan# 1465
Delta R.T. 0.001 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:202 Resp: 530238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.2 | 7.8 | 11.6 |

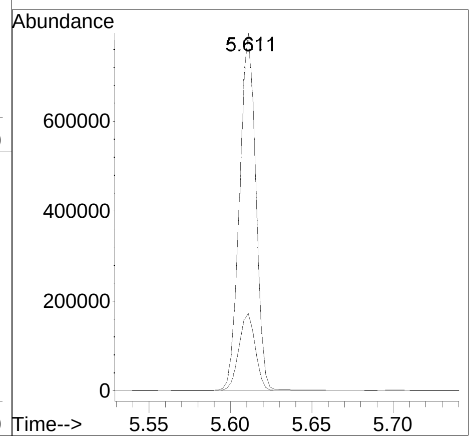


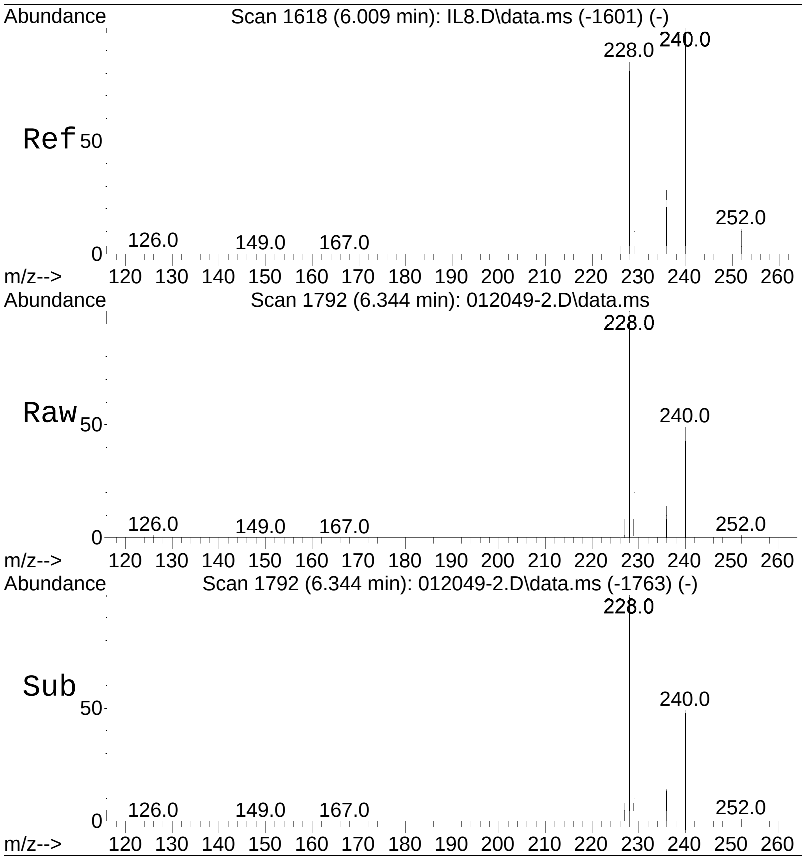



#29
Pyrene
Concen: 2165.62 ng/ml
RT: 5.611 min Scan# 1515
Delta R.T. 0.001 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:202 Resp: 548104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.8 | 17.5 | 26.3 |

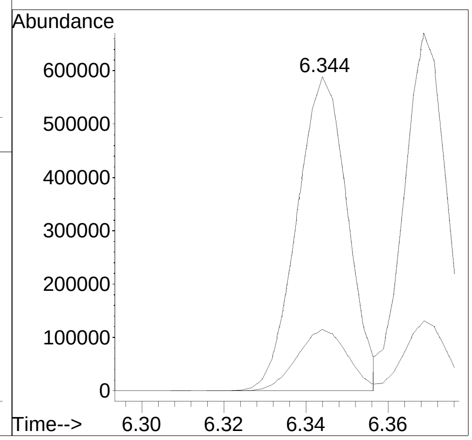


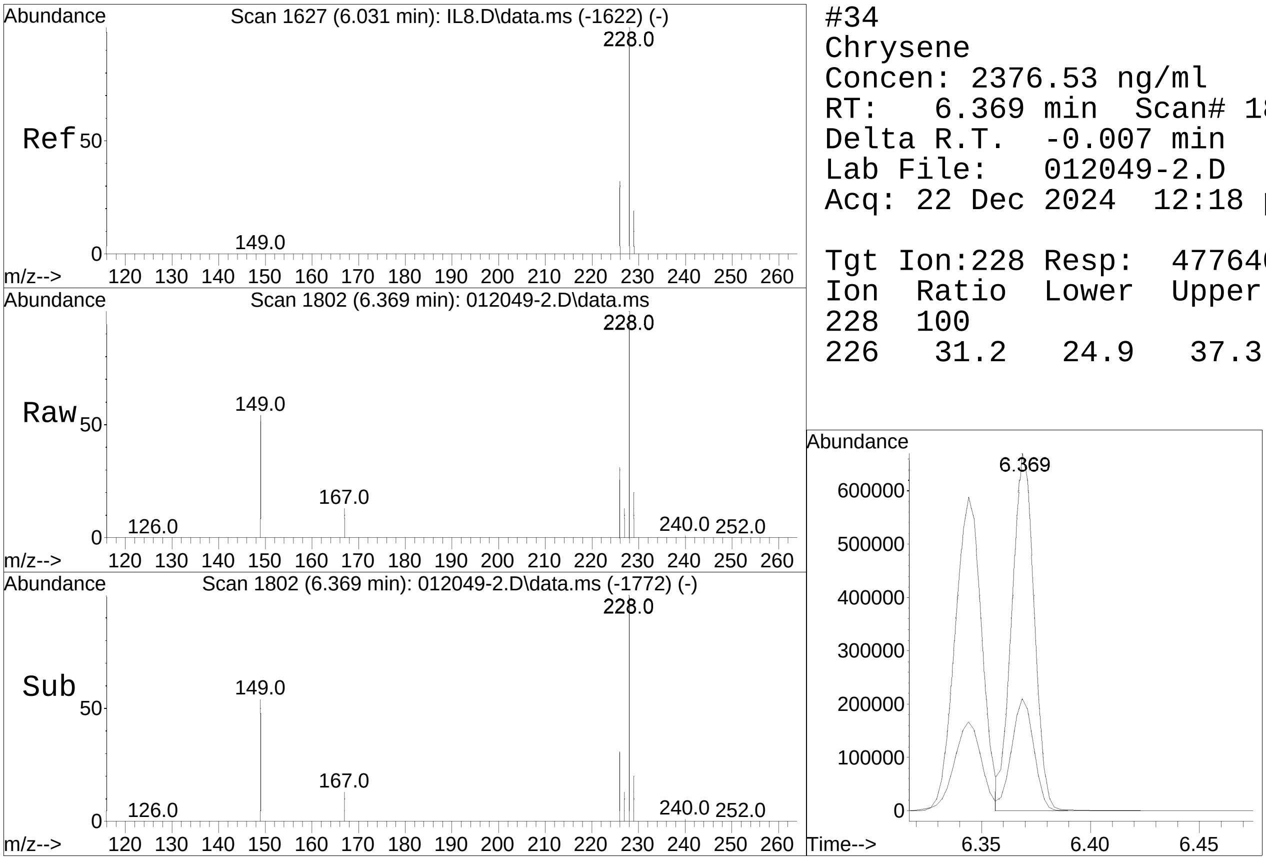



#32
Benzo[a]anthracene
Concen: 2169.22 ng/ml
RT: 6.344 min Scan# 1792
Delta R.T. -0.009 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:228 Resp: 503230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 19.6 | 16.2 | 24.4 |

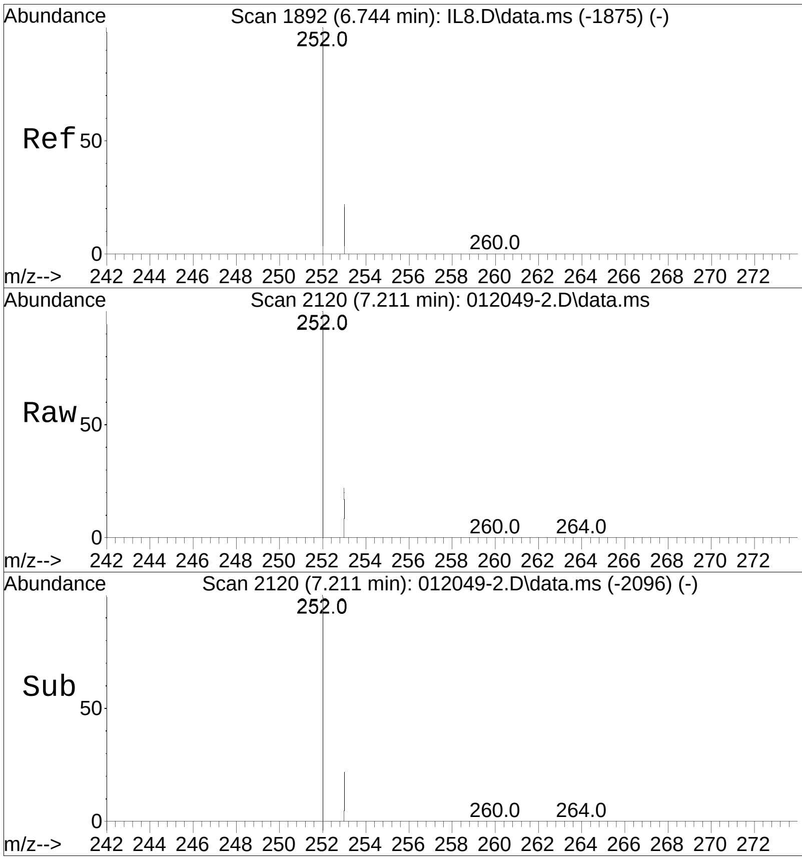





#34
Chrysene
Concen: 2376.53 ng/ml
RT: 6.369 min Scan# 1802
Delta R.T. -0.007 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:228 Resp: 477640

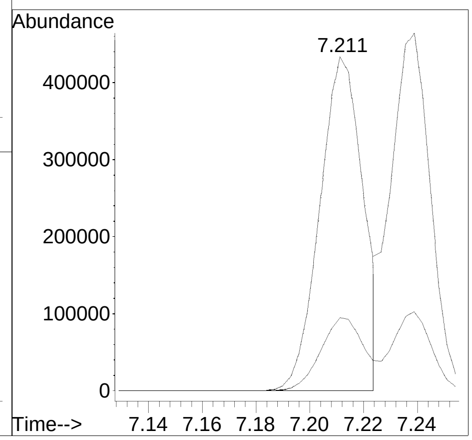
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.2 | 24.9 | 37.3 |

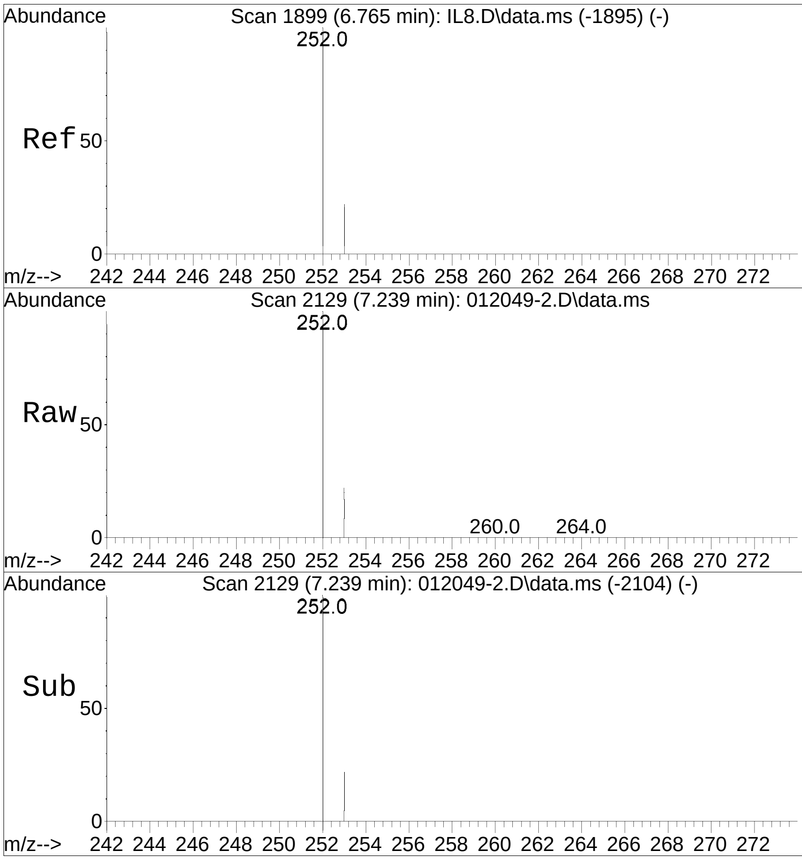



#37
Benzo[b]fluoranthene
Concen: 2077.05 ng/ml
RT: 7.211 min Scan# 2120
Delta R.T. -0.008 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:252 Resp: 480822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.2 | 17.4 | 26.0 |

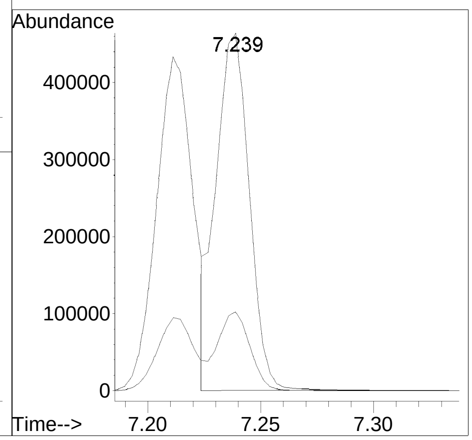


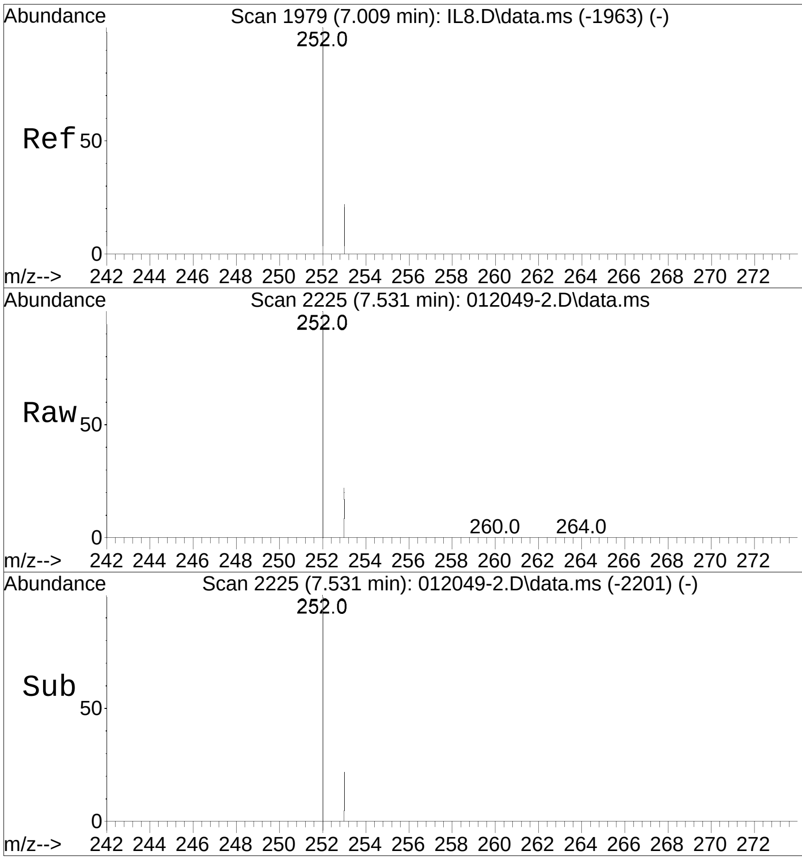



#38
Benzo[k]fluoranthene
Concen: 2276.80 ng/ml
RT: 7.239 min Scan# 2129
Delta R.T. -0.005 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:252 Resp: 473820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 20.6 | 17.6 | 26.4 |

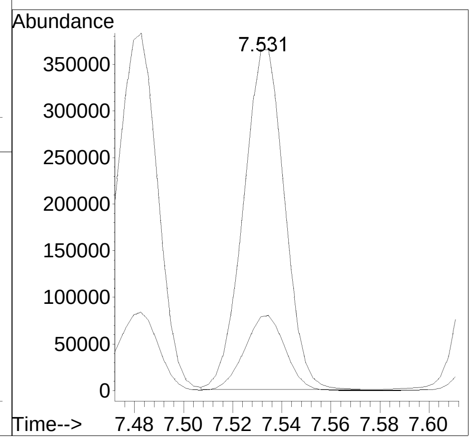


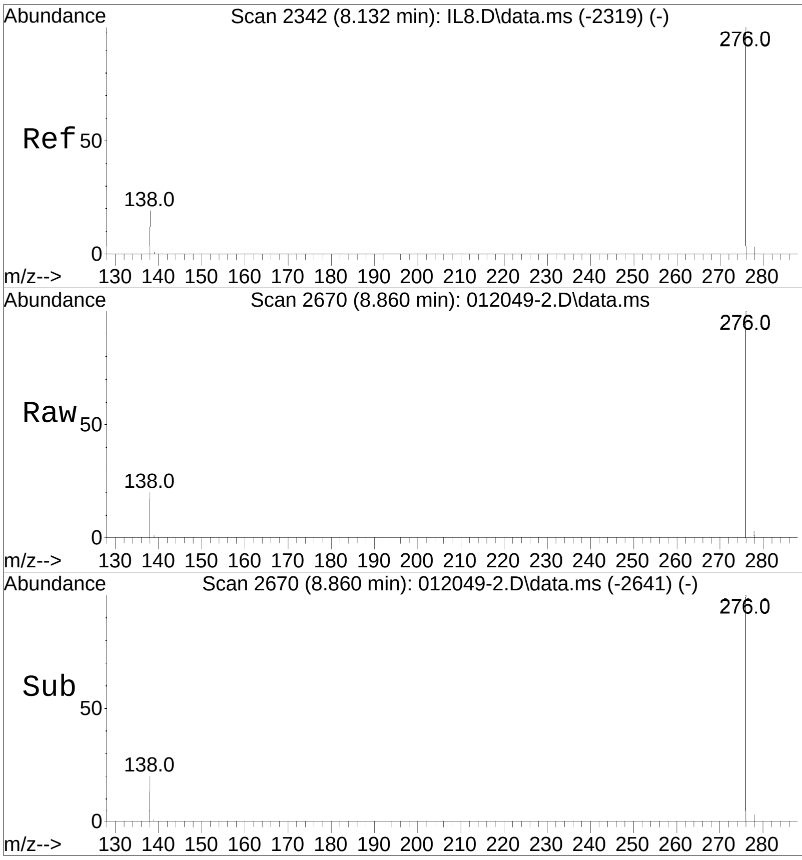



#39
Benzo[a]pyrene
Concen: 2232.19 ng/ml
RT: 7.531 min Scan# 2225
Delta R.T. -0.008 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:252 Resp: 423249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 17.4 | 26.2 |

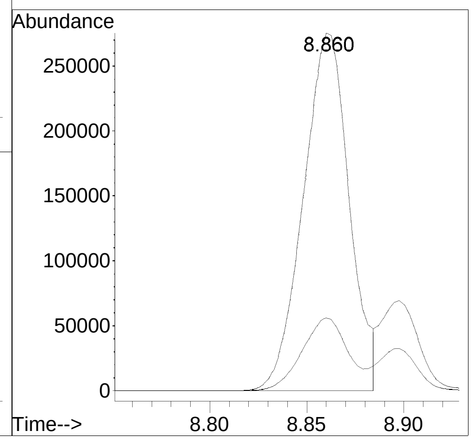


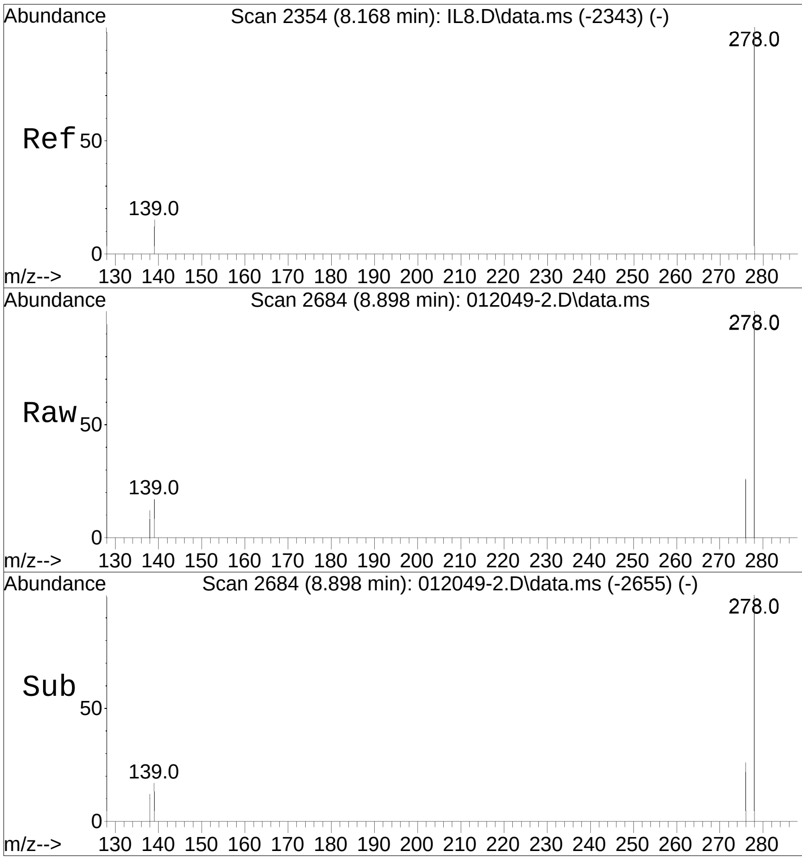



#40
Indeno[1,2,3-cd]pyrene
Concen: 2319.18 ng/ml
RT: 8.860 min Scan# 2670
Delta R.T. -0.002 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:276 Resp: 449655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 20.1 | 15.4 | 23.0 |

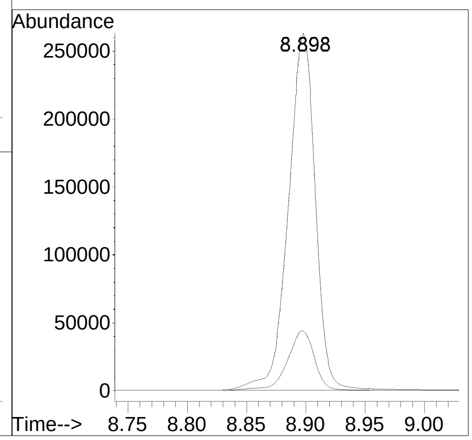


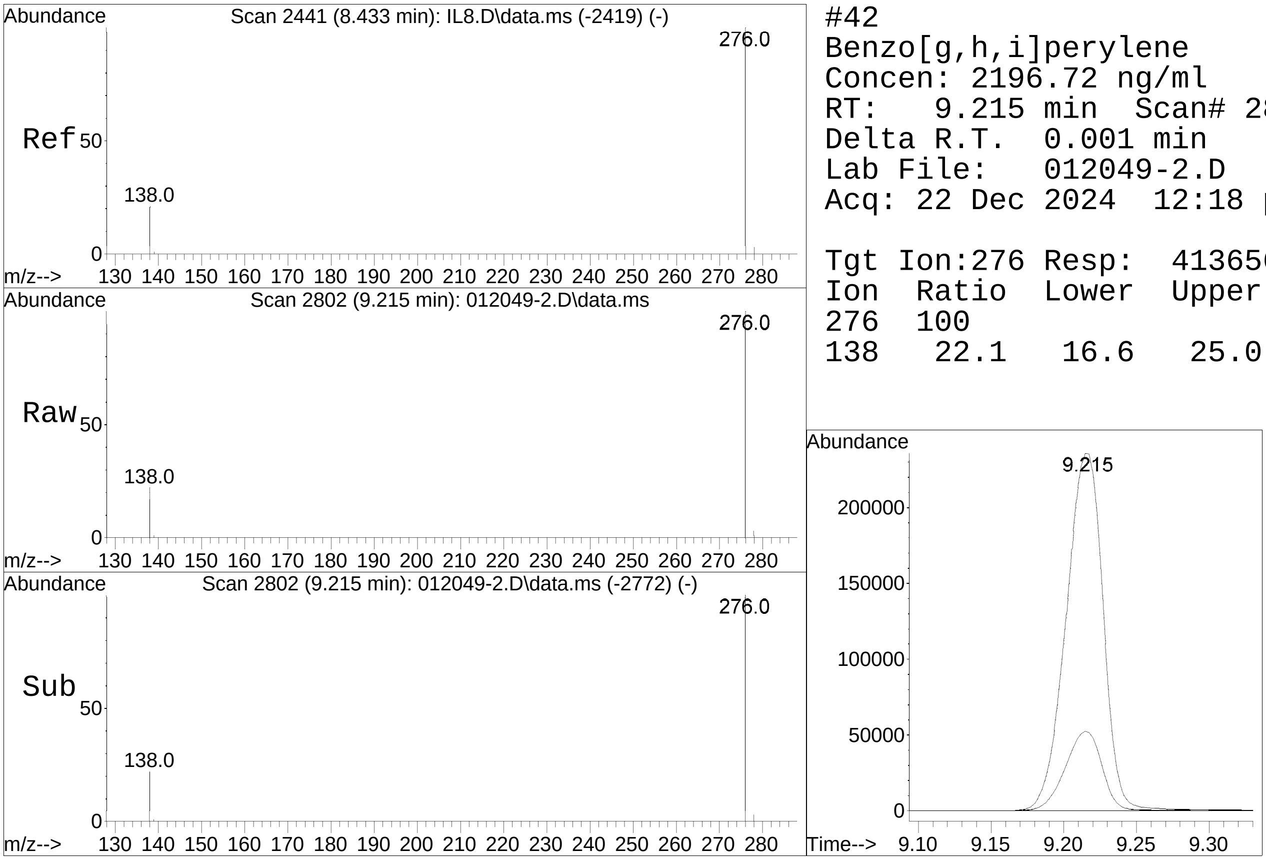



#41
Dibenzo[a,h]anthracene
Concen: 2272.25 ng/ml
RT: 8.898 min Scan# 2684
Delta R.T. -0.002 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:278 Resp: 413877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 16.9 | 13.0 | 19.6 |






#42
Benzo[g,h,i]perylene
Concen: 2196.72 ng/ml
RT: 9.215 min Scan# 2802
Delta R.T. 0.001 min
Lab File: 012049-2.D
Acq: 22 Dec 2024 12:18 pm

Tgt Ion:276 Resp: 413656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 22.1 | 16.6 | 25.0 |

Manual Integration Report

```
Data Path   : I:\8270SIM\sv120\241222RVTQMethod     : SIM-RVT_241105_sv120.M
Data File   : 012049-2.D                 Operator    : SV120:slr
Date Inj'd  : 12/22/2024 12:18 pm        Instrument  : SV120
Sample      : WG2012049-2,32,,kmh        Quant Date  : 12/22/2024 12:31 pm
```

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241222RVT\
Data File : 012049-3.D
Acq On : 22 Dec 2024 12:35 pm
Operator : SV120:slr
Sample : WG2012049-3,32,,kmh
Misc : WG2012326,WG2012049,ical21668
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 22 12:46:51 2024
Quant Method : I:\8270sim\sv120\241222RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 22 07:37:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\241222RVT\ccv1222.D
Sub List : DEFAULT - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 2.303 | 152 | 207777 | 4000.000 ng/ml | 0.00 |
| Standard Area 1 = 191989 | | | Recovery | = 108.22% | |
| 8) Naphthalene-d8 | 2.962 | 136 | 843836 | 4000.000 ng/ml | # 0.00 |
| Standard Area 1 = 758028 | | | Recovery | = 111.32% | |
| 17) Acenaphthene-d10 | 3.942 | 164 | 449467 | 4000.000 ng/ml | 0.00 |
| Standard Area 1 = 435714 | | | Recovery | = 103.16% | |
| 22) Phenanthrene-d10 | 4.784 | 188 | 847127 | 4000.000 ng/ml | 0.00 |
| Standard Area 1 = 854489 | | | Recovery | = 99.14% | |
| 31) Chrysene-d12 | 6.354 | 240 | 715218 | 4000.000 ng/ml | 0.00 |
| Standard Area 1 = 780818 | | | Recovery | = 91.60% | |
| 36) Perylene-d12 | 7.602 | 264 | 725707 | 4000.000 ng/ml | 0.00 |
| Standard Area 1 = 779548 | | | Recovery | = 93.09% | |

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 2) 2-Fluorophenol | 1.734 | 112 | 75406 | 1232.957 ng/ml | 0.02 |
| Spiked Amount 2000.000 | Range 15 - 110 | | Recovery | = 61.65% | |
| 3) Phenol-d6 | 2.120 | 99 | 70744 | 941.401 ng/ml | 0.01 |
| Spiked Amount 2000.000 | Range 15 - 110 | | Recovery | = 47.07% | |
| 7) Nitrobenzene-d5 | 2.581 | 82 | 57222 | 862.546 ng/ml | 0.00 |
| Spiked Amount 1000.000 | Range 30 - 130 | | Recovery | = 86.25% | |
| 13) 2-Fluorobiphenyl | 3.558 | 172 | 134954 | 793.474 ng/ml | 0.00 |
| Spiked Amount 1000.000 | Range 30 - 130 | | Recovery | = 79.35% | |
| 21) 2,4,6-Tribromophenol | 4.388 | 330 | 40357 | 2255.533 ng/ml | 0.00 |
| Spiked Amount 2000.000 | Range 15 - 110 | | Recovery | = 112.78%# | |
| 30) 4-Terphenyl-d14 | 5.701 | 244 | 154160 | 1000.809 ng/ml | 0.00 |
| Spiked Amount 2000.000 | Range 30 - 130 | | Recovery | = 50.04% | |

| Target Compounds | R.T. | QIon | Response | Conc Units | Qvalue |
|---|---|---|---|---|---|
| 4) Bis(2-chloroethyl)ether | 2.166 | 93 | 104044 | 1658.336 ng/ml | 98 |
| 6) Hexachloroethane | 2.559 | 117 | 39501 | 1452.166 ng/ml | 100 |
| 9) Naphthalene | 2.972 | 128 | 341163 | 1617.338 ng/ml | 99 |
| 10) Hexachlorobutadiene | 3.042 | 225 | 55798 | 1396.013 ng/ml | 100 |
| 11) 2-Methylnaphthalene | 3.352 | 142 | 237121 | 1619.164 ng/ml | 100 |
| 14) 2-Chloronaphthalene | 3.624 | 162 | 238169 | 1638.299 ng/ml | 92 |
| 16) Acenaphthylene | 3.858 | 152 | 368763 | 1759.370 ng/ml | 100 |
| 18) Acenaphthene | 3.959 | 153 | 254951 | 1879.219 ng/ml | 93 |
| 20) Fluorene | 4.250 | 166 | 300008 | 2043.658 ng/ml | 100 |
| 24) Hexachlorobenzene | 4.567 | 284 | 97690 | 2183.170 ng/ml | 100 |

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241222RVT\
Data File : 012049-3.D
Acq On : 22 Dec 2024 12:35 pm
Operator : SV120:slr
Sample : WG2012049-3,32,,kmh
Misc : WG2012326,WG2012049,ical21668
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 22 12:46:51 2024
Quant Method : I:\8270sim\sv120\241222RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 22 07:37:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\241222RVT\ccv1222.D
Sub List : DEFAULT - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 25) Pentachlorophenol | 4.681 | 266 | 55933 | 2168.038 ng/ml | 99 |
| 26) Phenanthrene | 4.798 | 178 | 445196 | 2205.328 ng/ml | 100 |
| 27) Anthracene | 4.826 | 178 | 445592 | 2133.431 ng/ml | 100 |
| 28) Fluoranthene | 5.479 | 202 | 522197 | 2245.890 ng/ml | 99 |
| 29) Pyrene | 5.612 | 202 | 541758 | 2259.605 ng/ml | 100 |
| 32) Benzo[a]anthracene | 6.347 | 228 | 499922 | 2287.925 ng/ml | 99 |
| 34) Chrysene | 6.371 | 228 | 461001 | 2434.714 ng/ml | 100 |
| 37) Benzo[b]fluoranthene | 7.215 | 252 | 491887 | 2233.789 ng/ml | 100 |
| 38) Benzo[k]fluoranthene | 7.239 | 252 | 458365 | 2315.461 ng/ml | 100 |
| 39) Benzo[a]pyrene | 7.535 | 252 | 424578 | 2353.996 ng/ml | 100 |
| 40) Indeno[1,2,3-cd]pyrene | 8.863 | 276 | 466082 | 2527.154 ng/ml | 98 |
| 41) Dibenzo[a,h]anthracene | 8.900 | 278 | 419385 | 2420.535 ng/ml | 99 |
| 42) Benzo[g,h,i]perylene | 9.217 | 276 | 423209 | 2362.679 ng/ml | 97 |

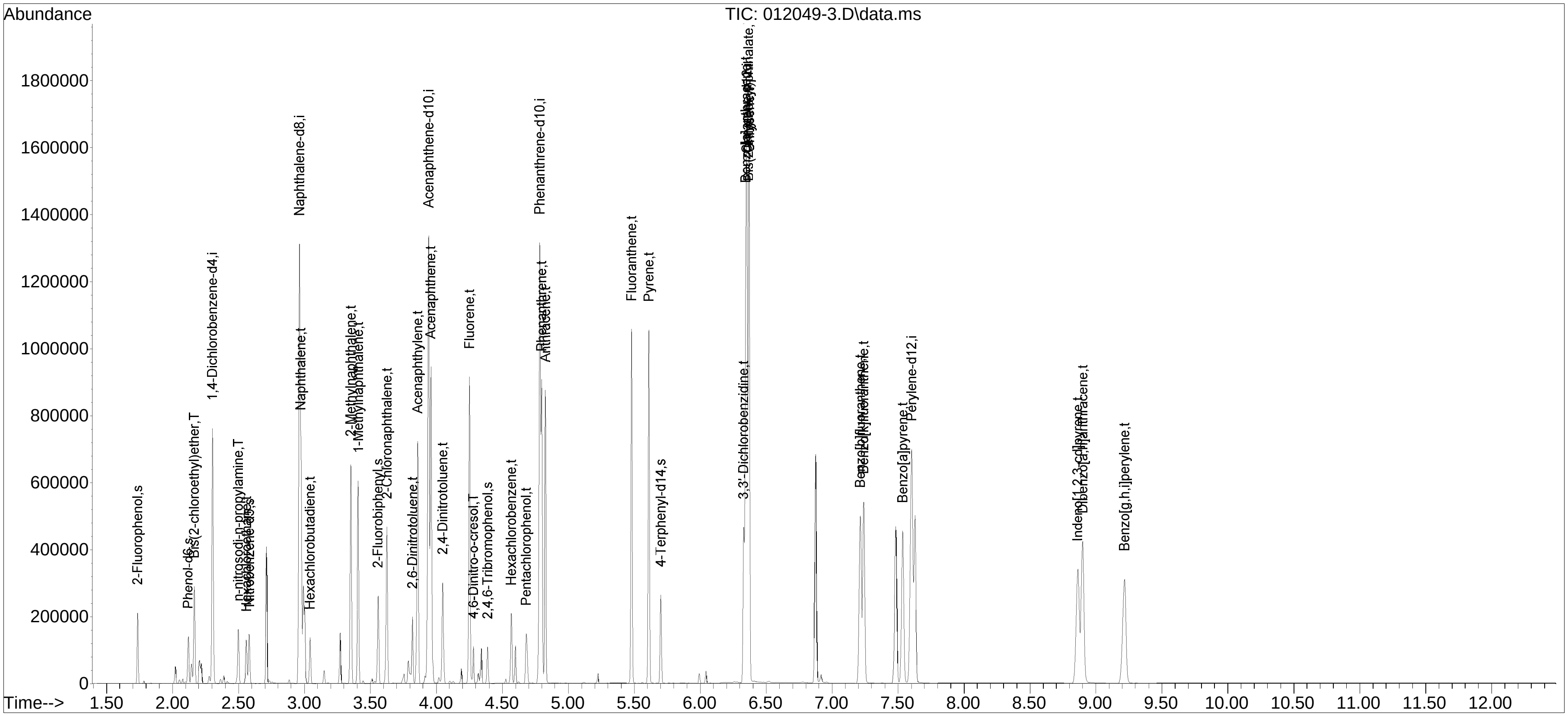
(#) = qualifier out of range (m) = manual integration (+) = signals summed

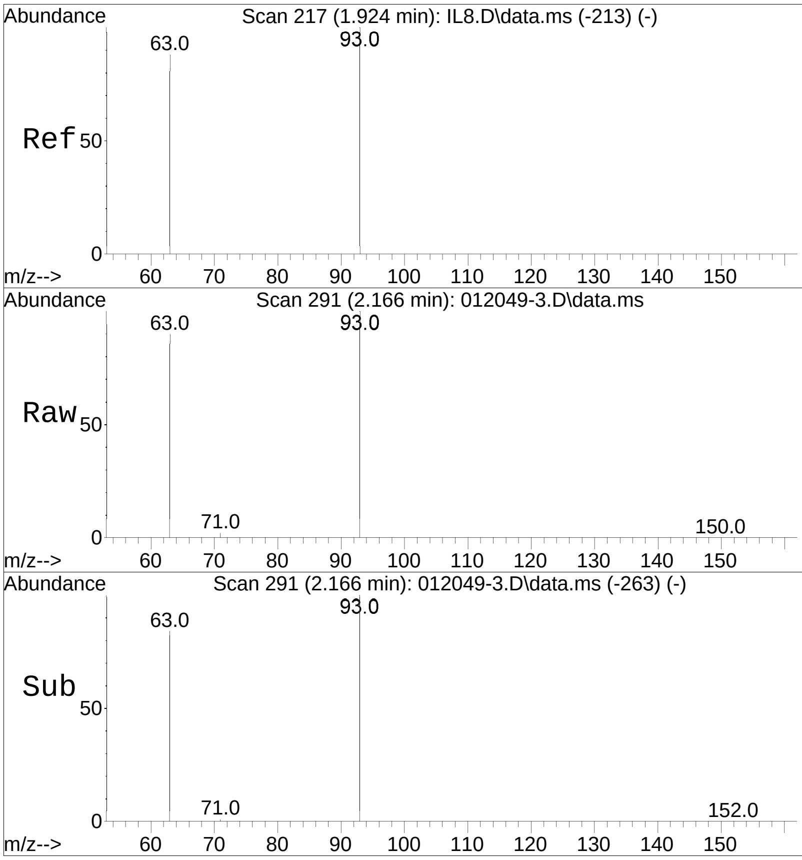
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241222RVT\
Data File : 012049-3.D
Acq On : 22 Dec 2024 12:35 pm
Operator : SV120:slr
Sample : WG2012049-3,32,,kmh
Misc : WG2012326,WG2012049,ical21668
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 22 12:46:51 2024
Quant Method : I:\8270sim\sv120\241222RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 22 07:37:54 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1222.D•

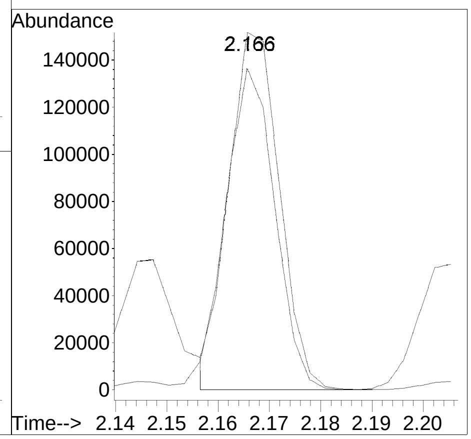


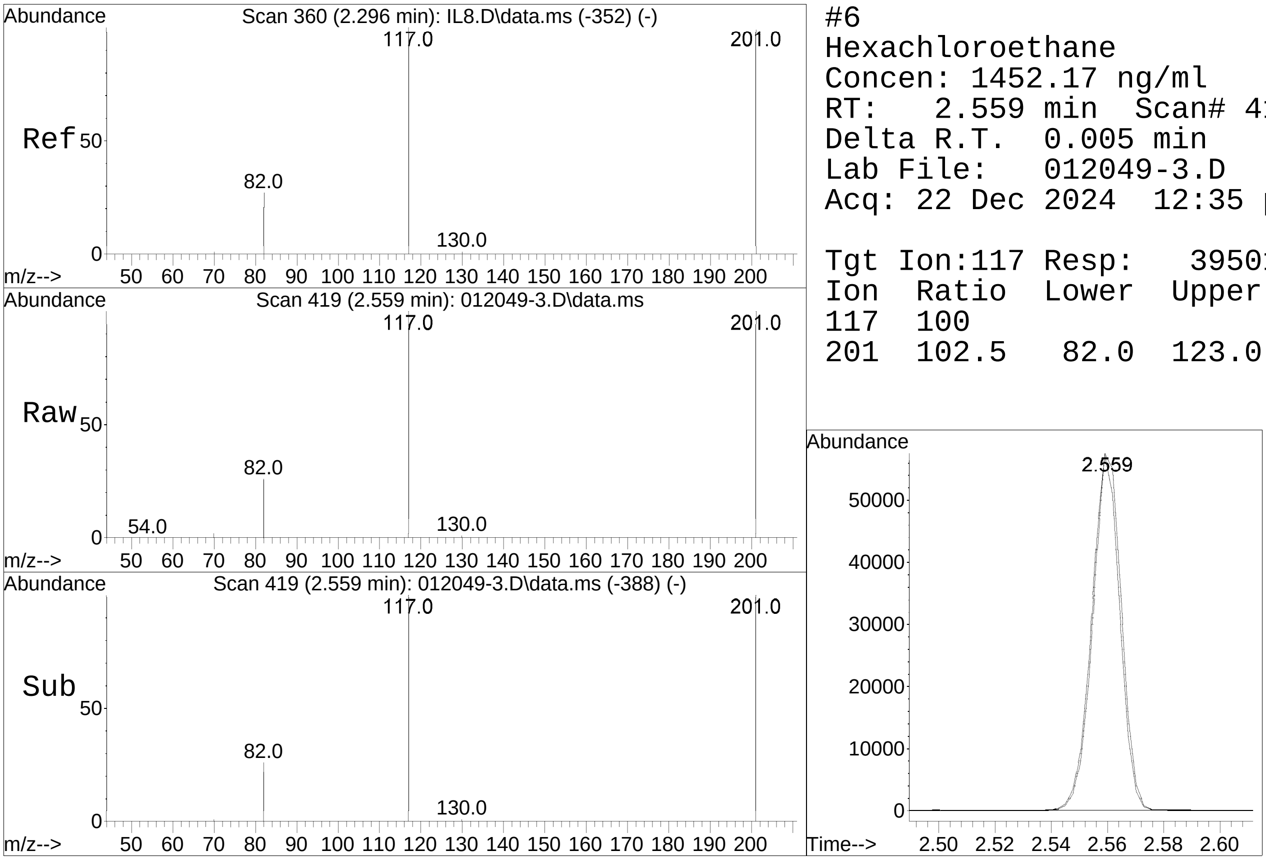



#4
Bis(2-chloroethyl)ether
Concen: 1658.34 ng/ml
RT: 2.166 min Scan# 291
Delta R.T. 0.006 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion: 93 Resp: 104044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 88.1 | 68.7 | 103.1 |

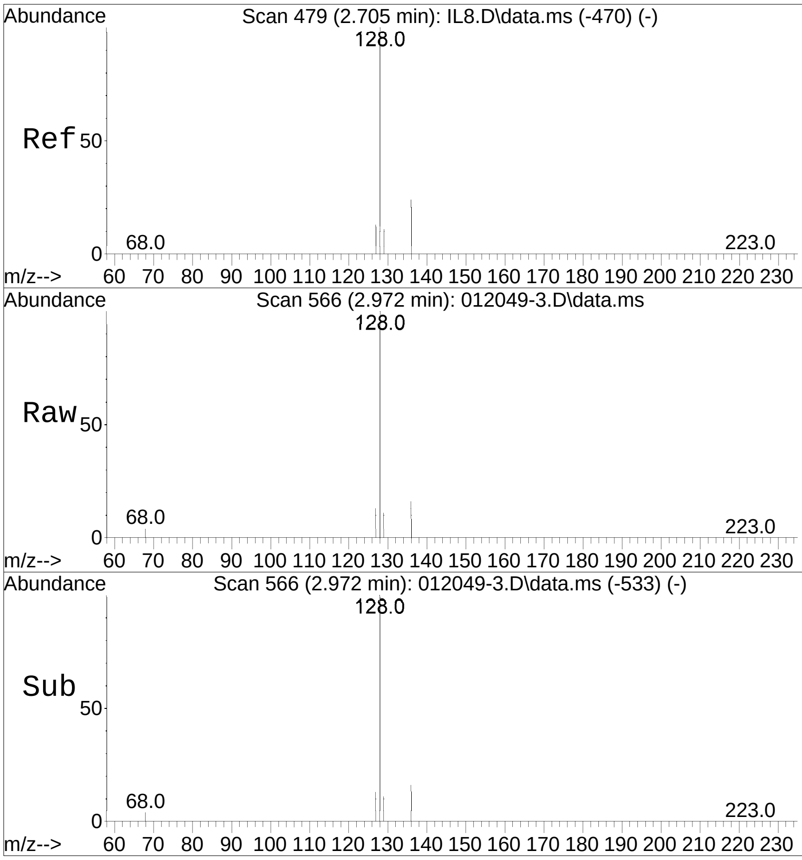





#6
Hexachloroethane
Concen: 1452.17 ng/ml
RT: 2.559 min Scan# 419
Delta R.T. 0.005 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:117 Resp: 39501

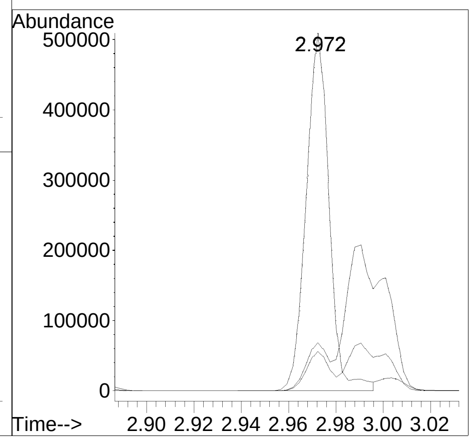
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 102.5 | 82.0 | 123.0 |

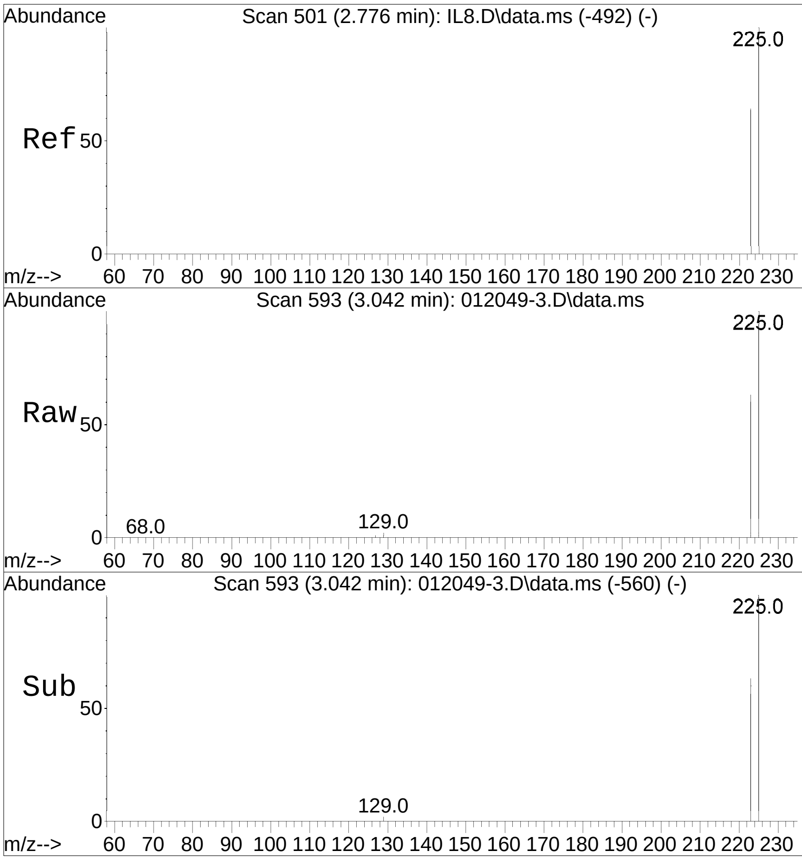



#9
Naphthalene
Concen: 1617.34 ng/ml
RT: 2.972 min Scan# 566
Delta R.T. 0.005 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:128 Resp: 341163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.1 | 8.9 | 13.3 |
| 127 | 13.0 | 10.7 | 16.1 |

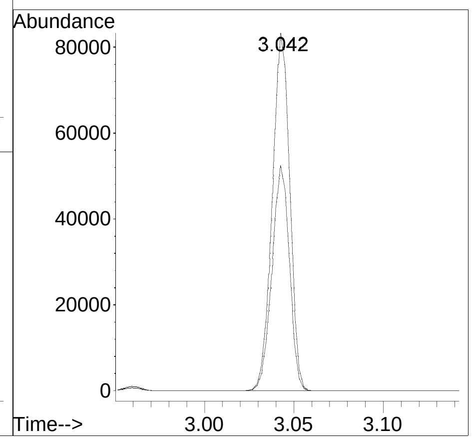


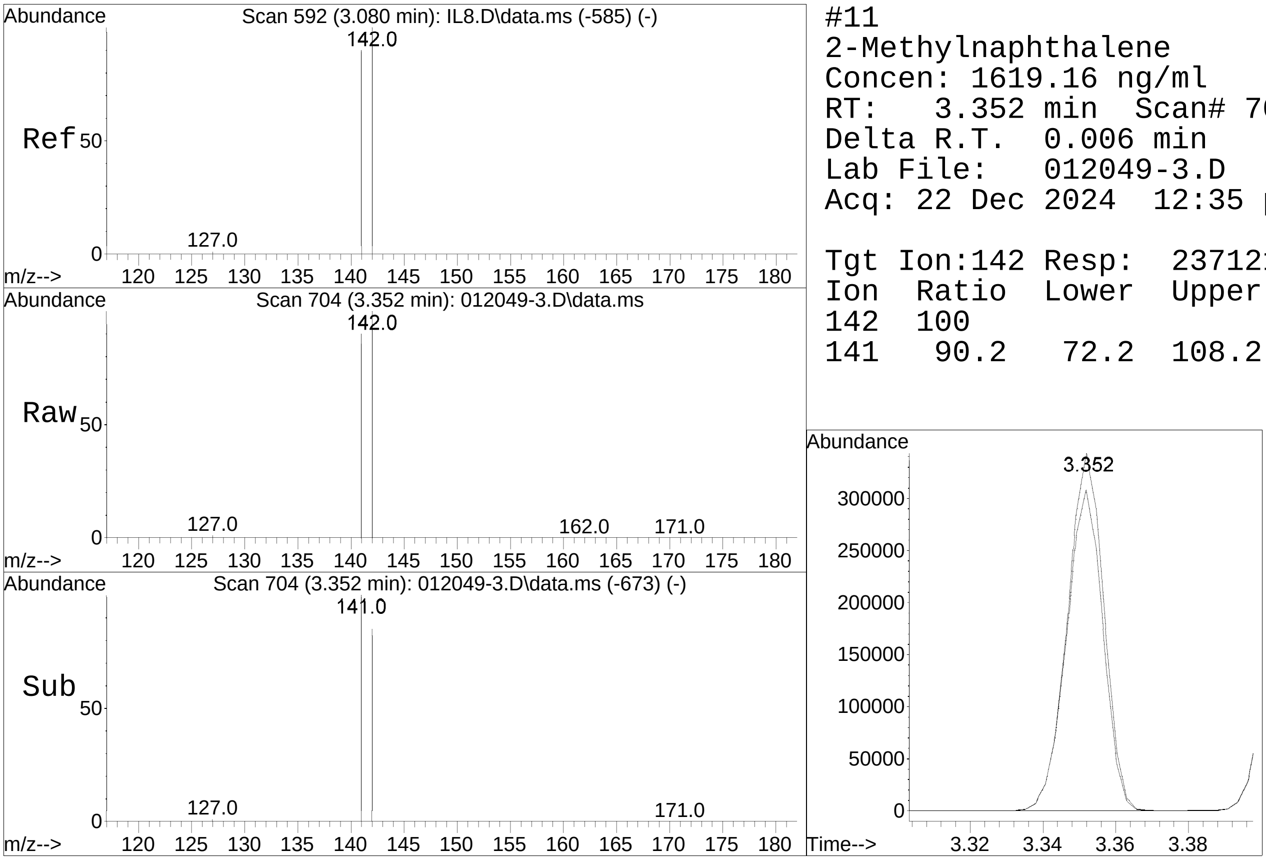



#10
Hexachlorobutadiene
Concen: 1396.01 ng/ml
RT: 3.042 min Scan# 593
Delta R.T. 0.005 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:225 Resp: 55798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.9 | 50.5 | 75.7 |

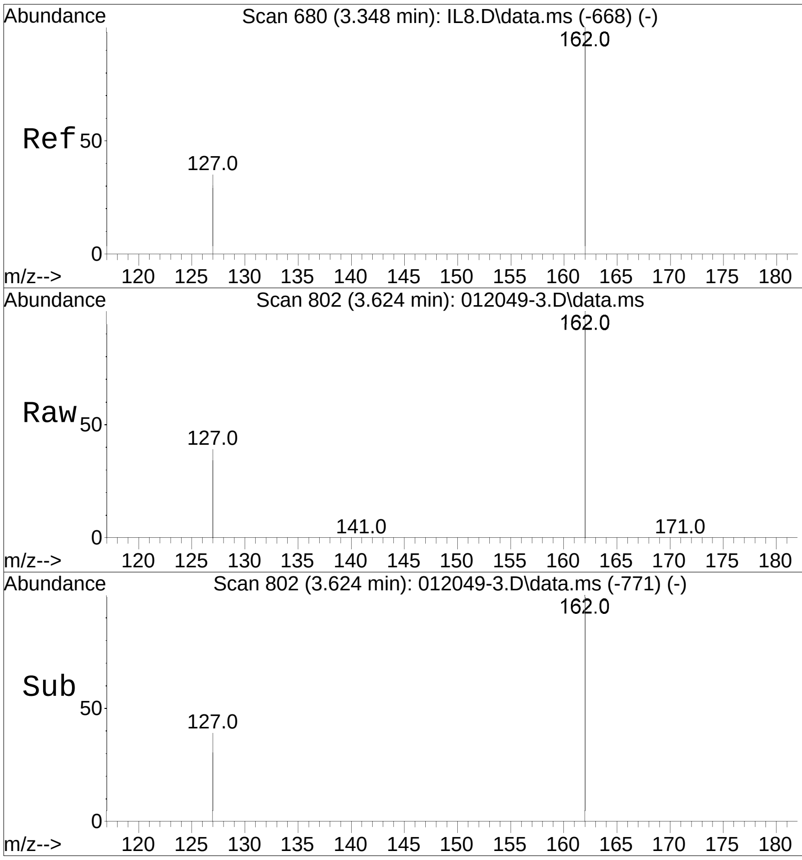





#11
2-Methylnaphthalene
Concen: 1619.16 ng/ml
RT: 3.352 min Scan# 704
Delta R.T. 0.006 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:142 Resp: 237121

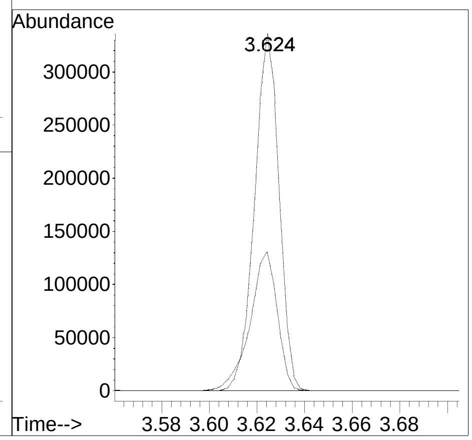
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.2 | 72.2 | 108.2 |

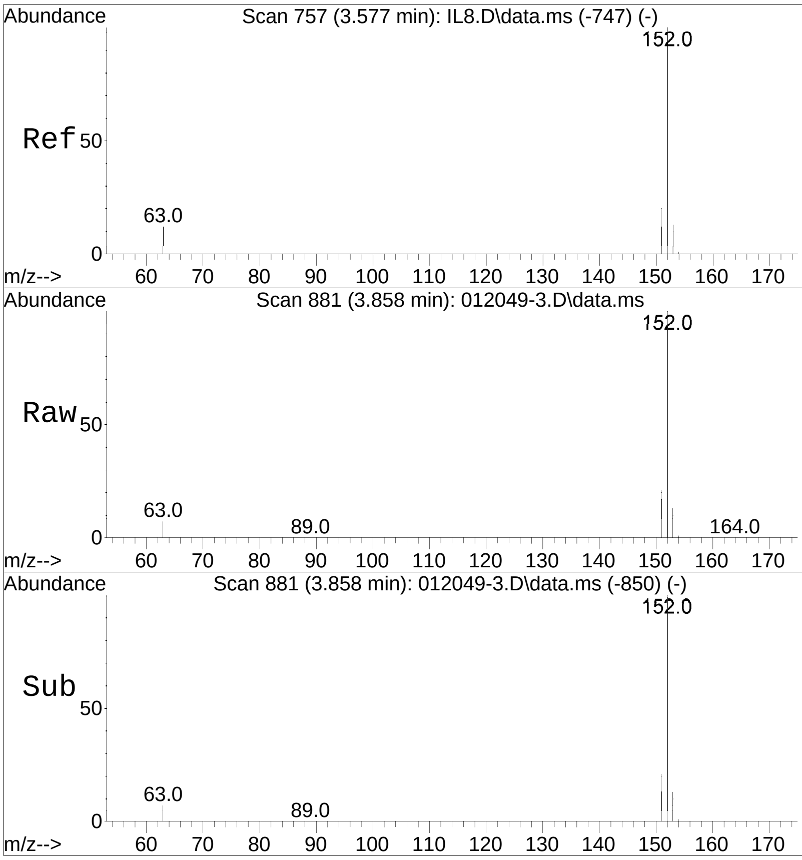



#14
2-Chloronaphthalene
Concen: 1638.30 ng/ml
RT: 3.624 min Scan# 802
Delta R.T. 0.006 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:162 Resp: 238169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 43.4 | 31.0 | 46.4 |

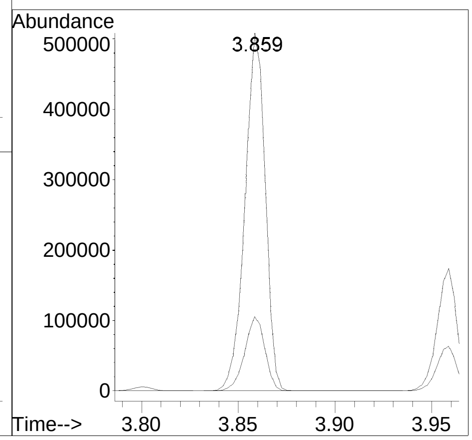


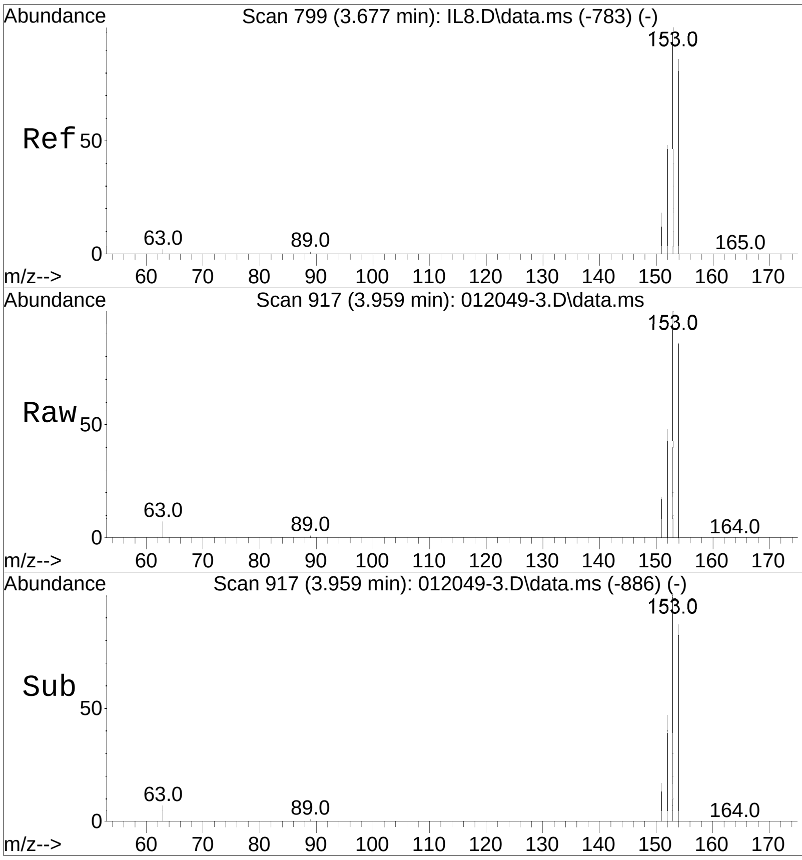



#16
Acenaphthylene
Concen: 1759.37 ng/ml
RT: 3.858 min Scan# 881
Delta R.T. 0.006 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:152 Resp: 368763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.7 | 16.4 | 24.6 |

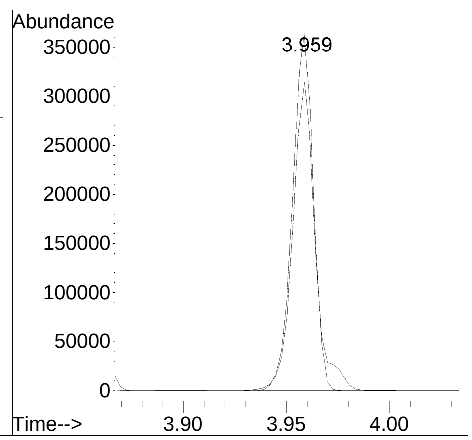


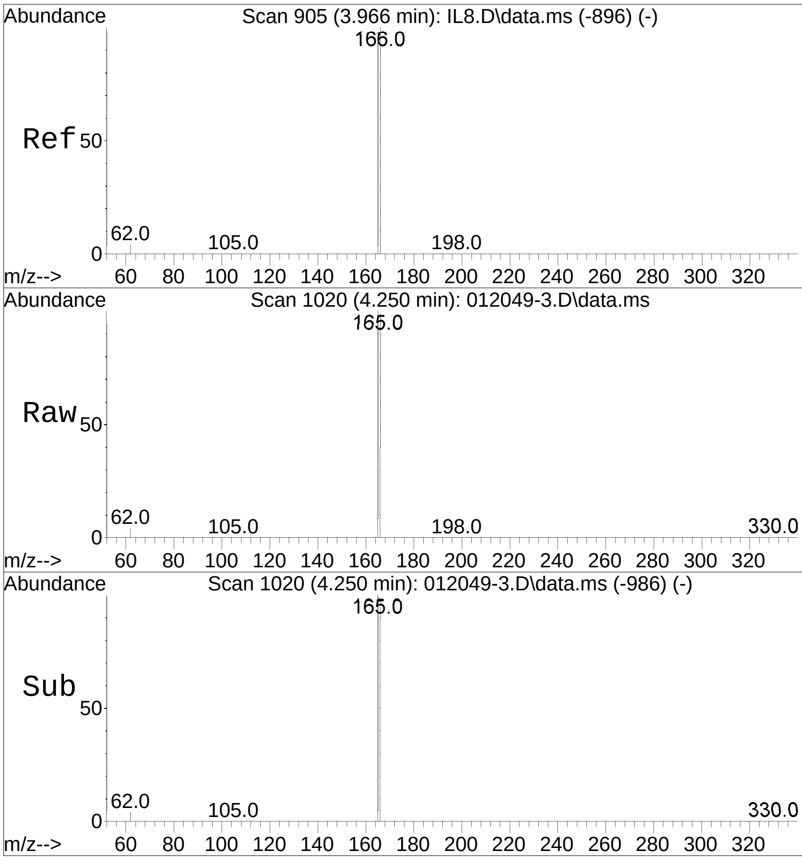



#18
Acenaphthene
Concen: 1879.22 ng/ml
RT: 3.959 min Scan# 917
Delta R.T. 0.006 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:153 Resp: 254951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 153 | 100 | | |
| 154 | 93.5 | 69.8 | 104.6 |

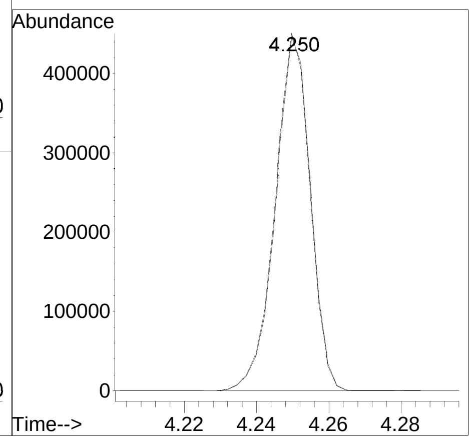


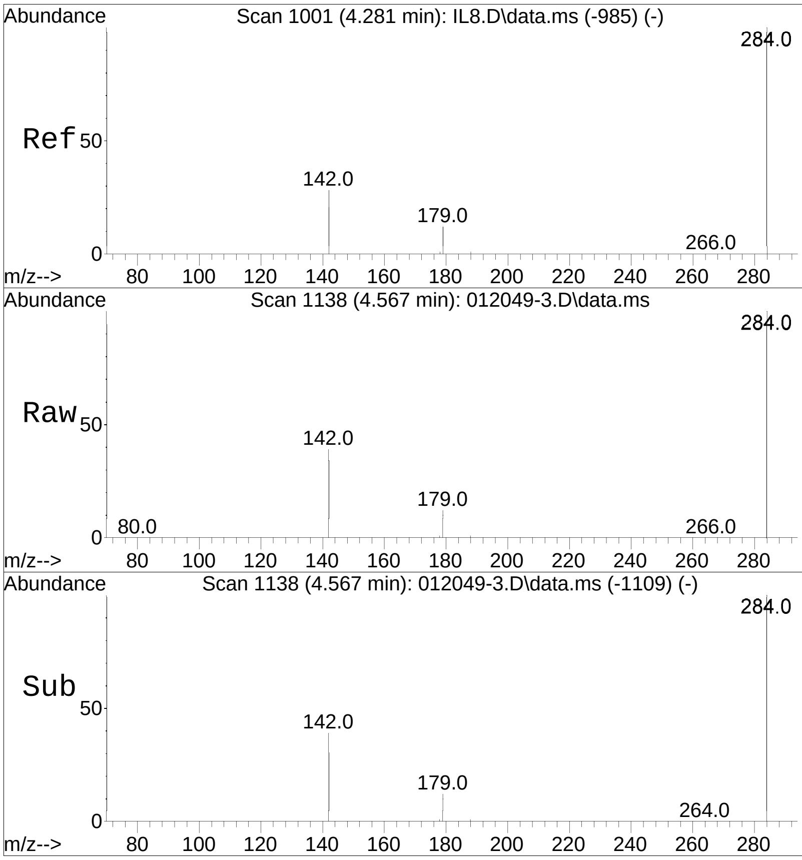



#20
Fluorene
Concen: 2043.66 ng/ml
RT: 4.250 min Scan# 1020
Delta R.T. 0.004 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:166 Resp: 300008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.6 | 80.1 | 120.1 |

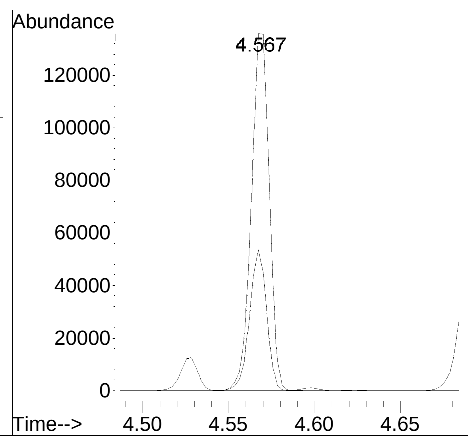


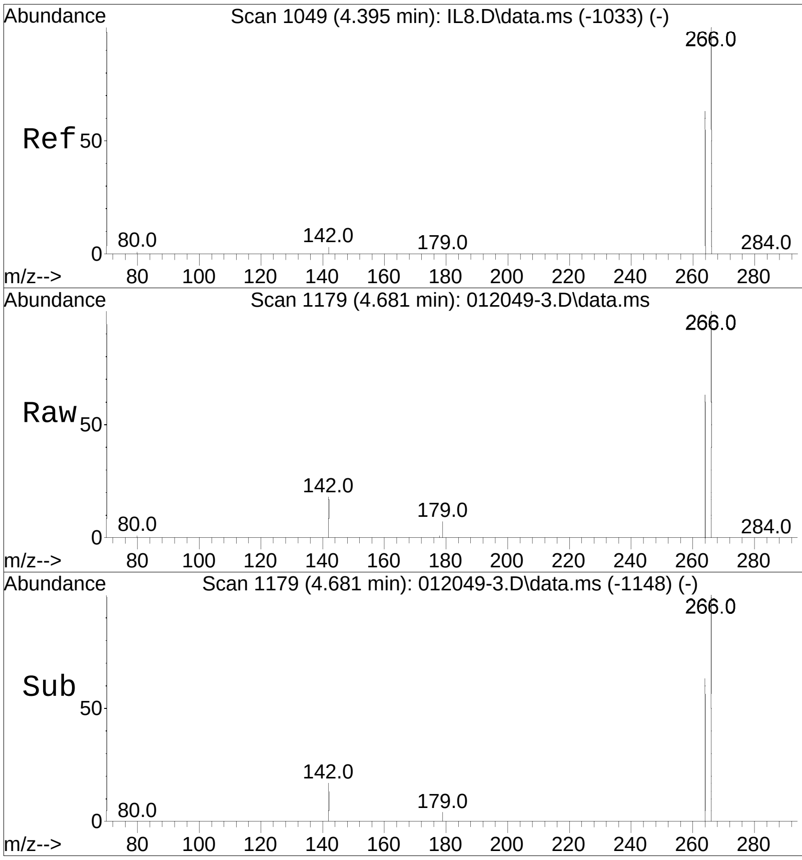



#24
Hexachlorobenzene
Concen: 2183.17 ng/ml
RT: 4.567 min Scan# 1138
Delta R.T. 0.004 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:284 Resp: 97690

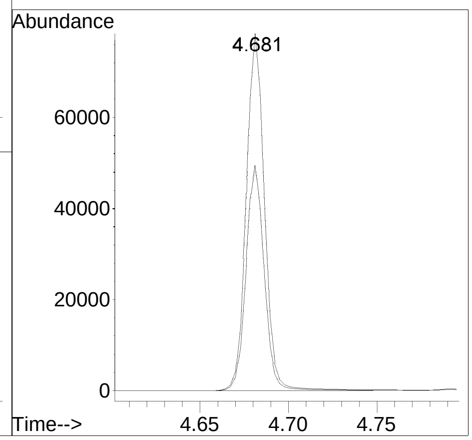
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 37.5 | 30.2 | 45.2 |

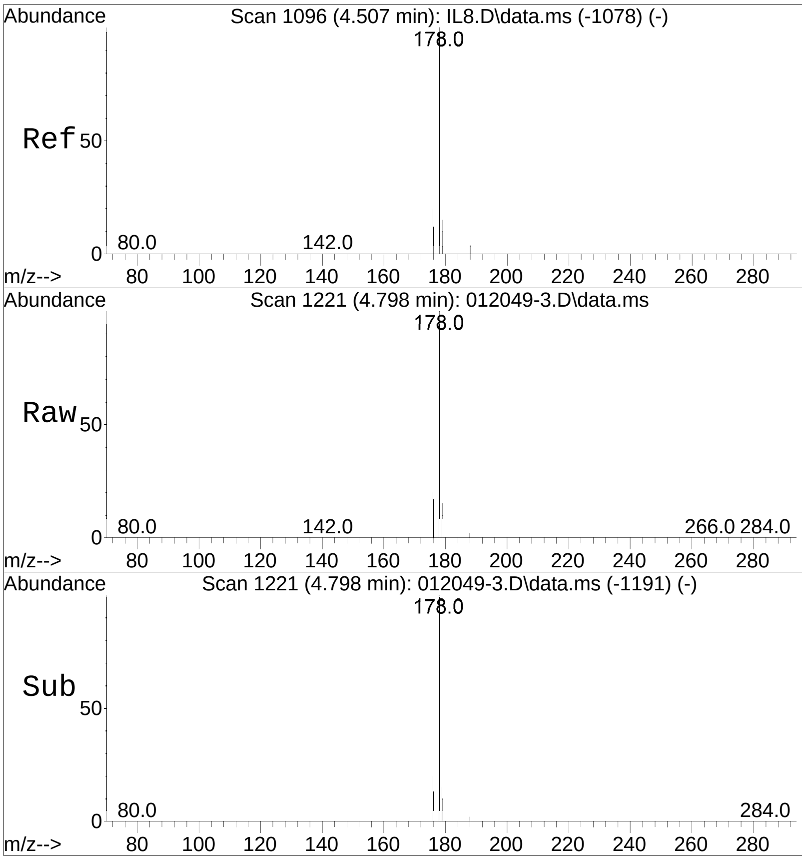





#25
Pentachlorophenol
Concen: 2168.04 ng/ml
RT: 4.681 min Scan# 1179
Delta R.T. 0.007 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

| Tgt Ion:266 | Resp: | | 55933 |
|---|---|---|---|
| Ion | Ratio | Lower | Upper |
| 266 | 100 | | |
| 264 | 63.3 | 50.3 | 75.5 |

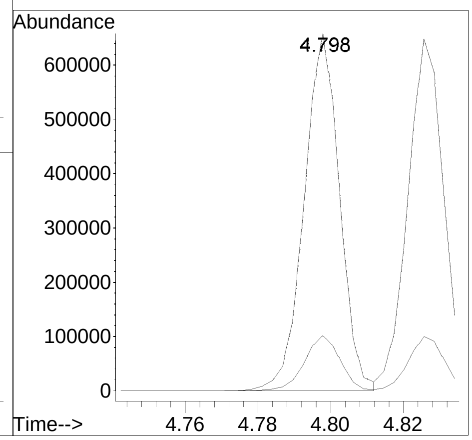


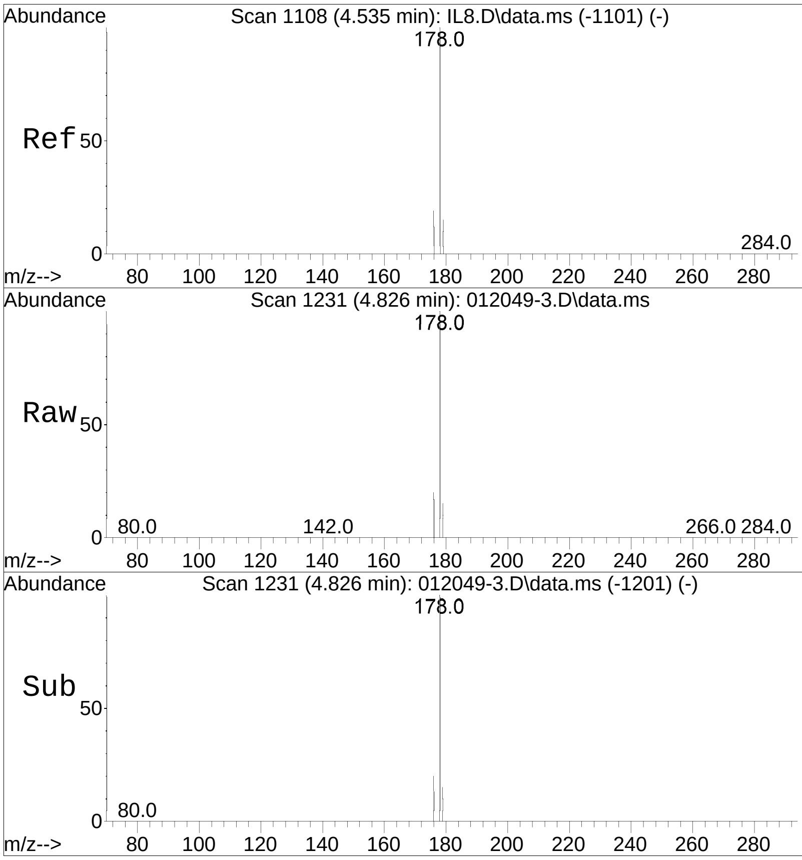



#26
Phenanthrene
Concen: 2205.33 ng/ml
RT: 4.798 min Scan# 1221
Delta R.T. 0.004 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:178 Resp: 445196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.6 | 12.5 | 18.7 |

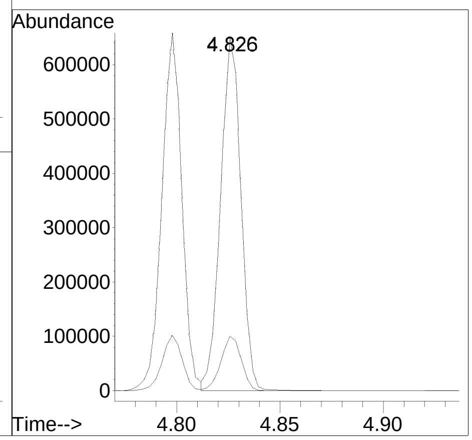


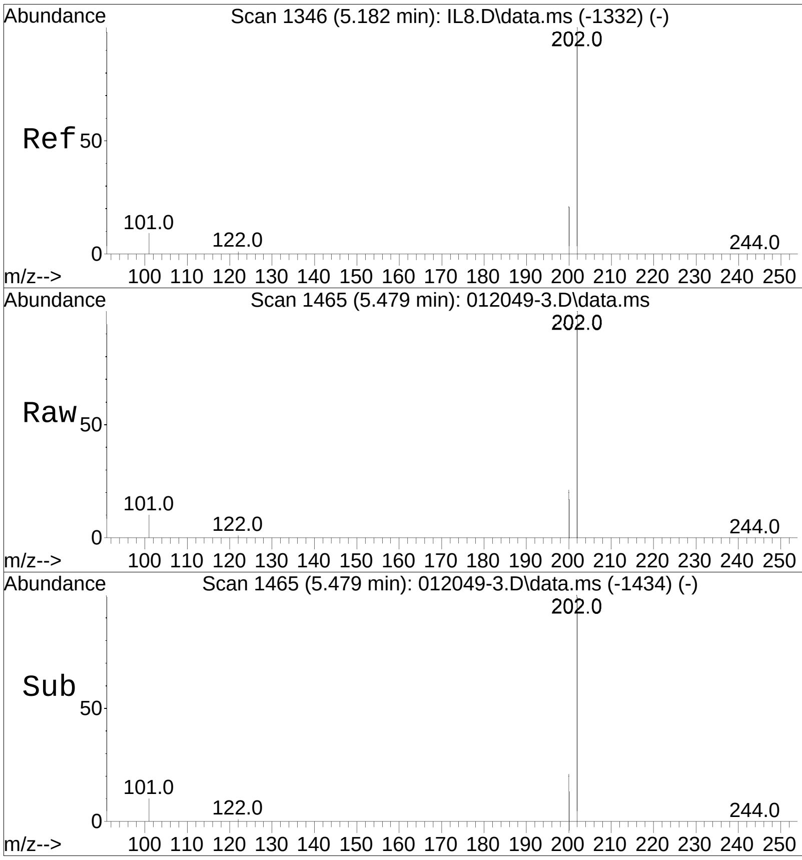



#27
Anthracene
Concen: 2133.43 ng/ml
RT: 4.826 min Scan# 1231
Delta R.T. 0.004 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:178 Resp: 445592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.4 | 12.3 | 18.5 |

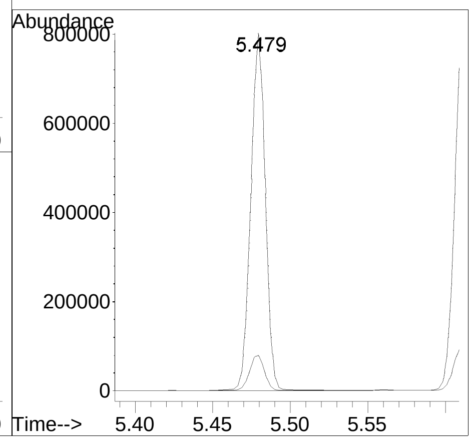


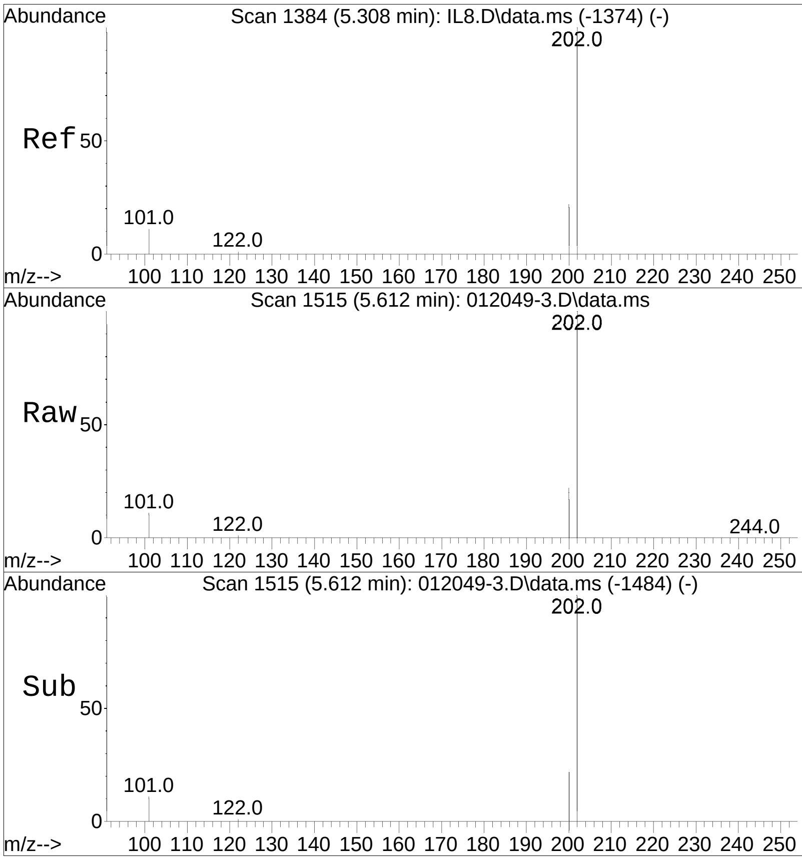



#28
Fluoranthene
Concen: 2245.89 ng/ml
RT: 5.479 min Scan# 1465
Delta R.T. 0.001 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:202 Resp: 522197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.2 | 7.8 | 11.6 |

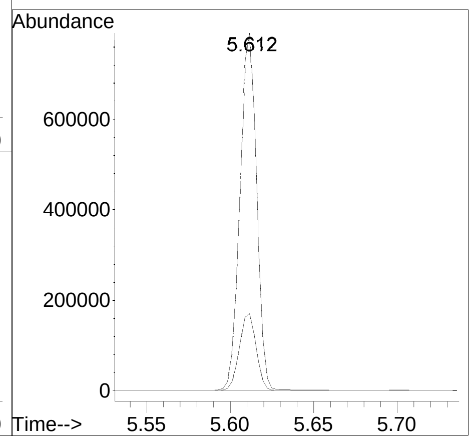


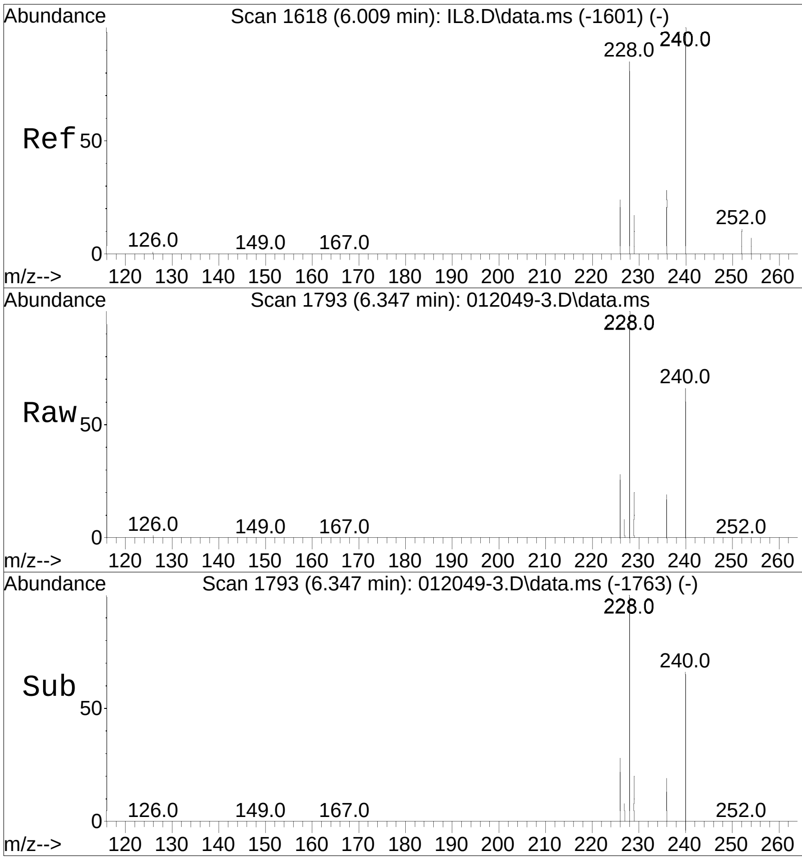



#29
Pyrene
Concen: 2259.60 ng/ml
RT: 5.612 min Scan# 1515
Delta R.T. 0.001 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:202 Resp: 541758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.9 | 17.5 | 26.3 |

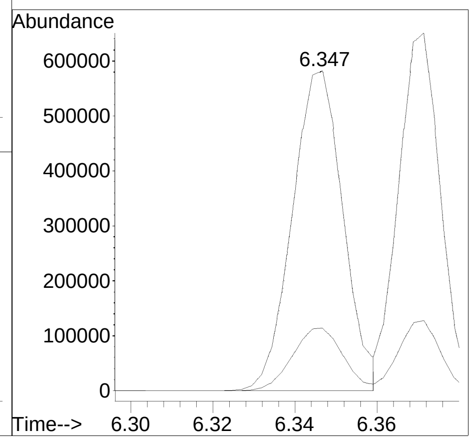


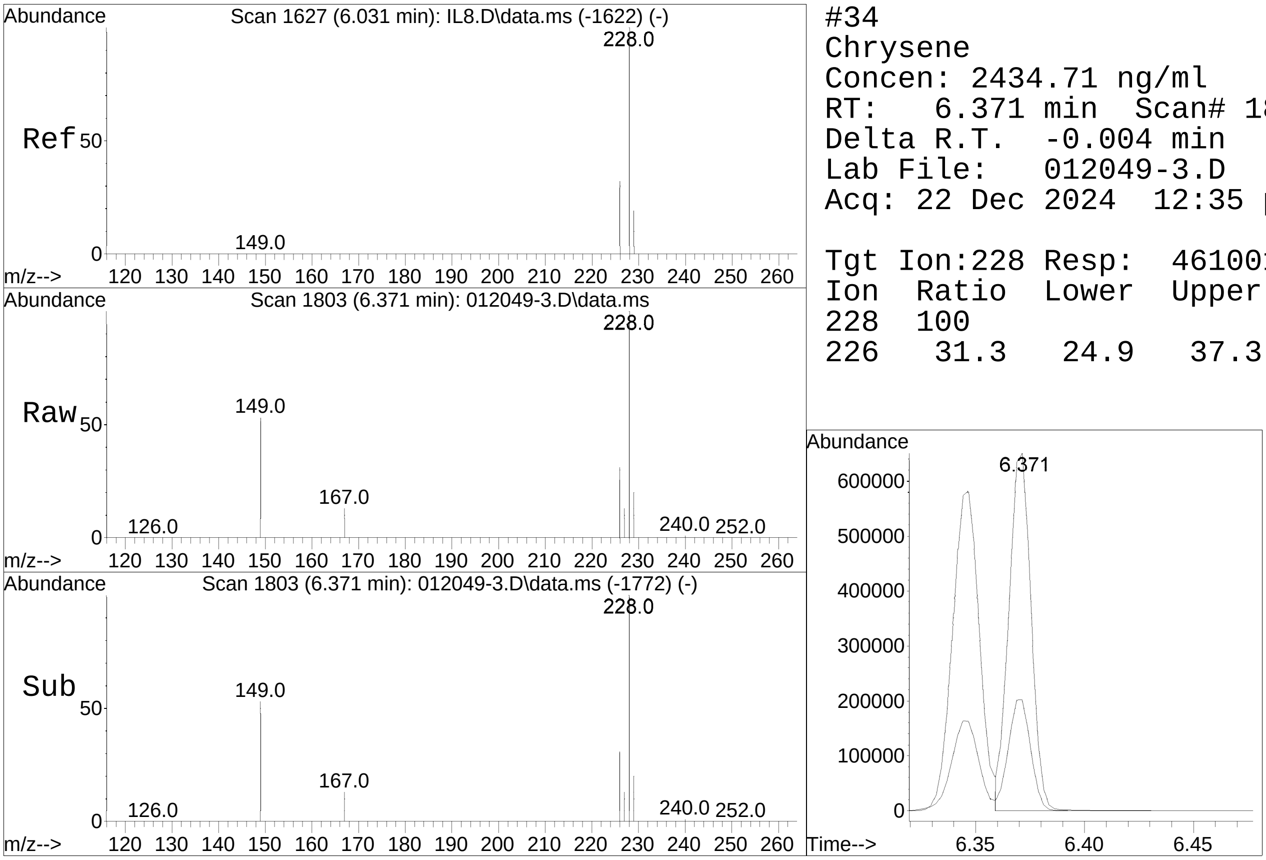



#32
Benzo[a]anthracene
Concen: 2287.92 ng/ml
RT: 6.347 min Scan# 1793
Delta R.T. -0.006 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:228 Resp: 499922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 19.6 | 16.2 | 24.4 |

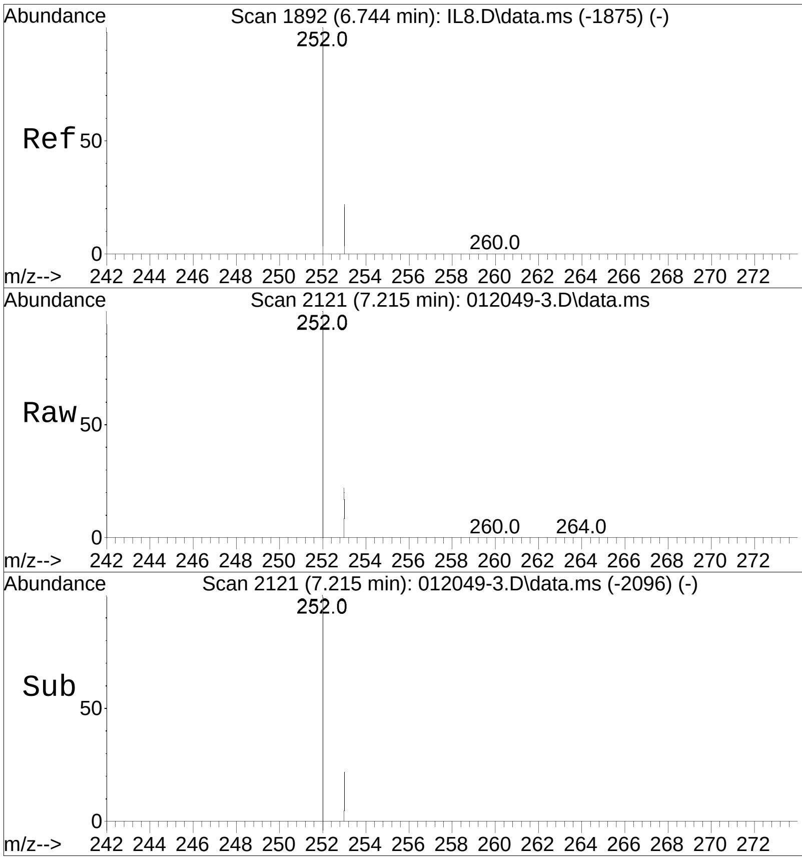





#34
Chrysene
Concen: 2434.71 ng/ml
RT: 6.371 min Scan# 1803
Delta R.T. -0.004 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:228 Resp: 461001

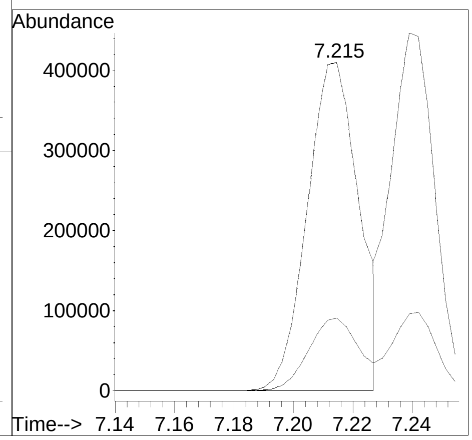
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.3 | 24.9 | 37.3 |

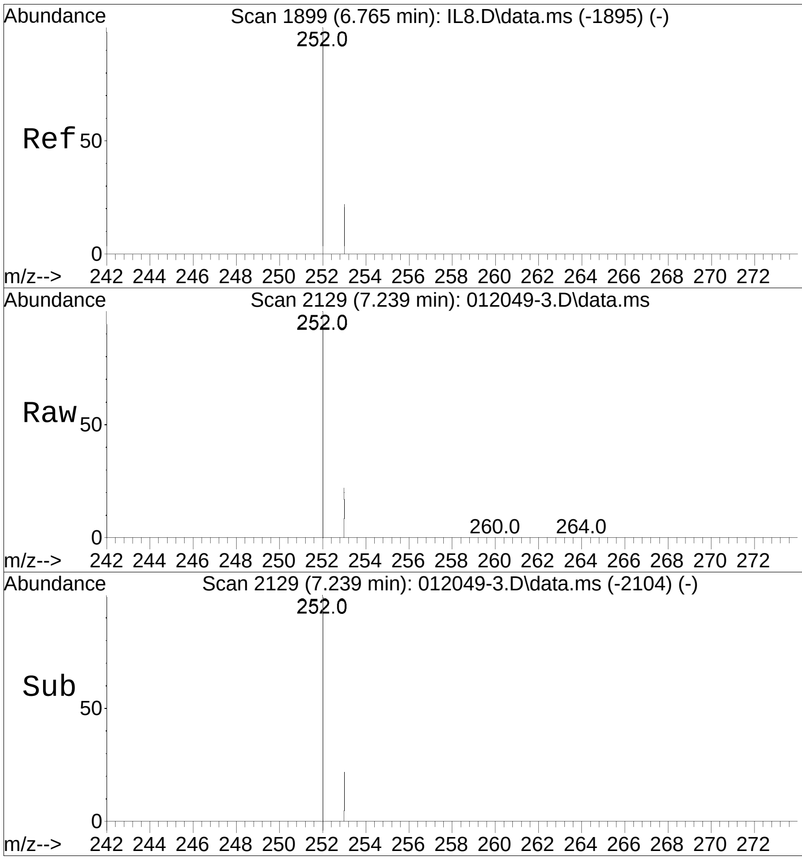



#37
Benzo[b]fluoranthene
Concen: 2233.79 ng/ml
RT: 7.215 min Scan# 2121
Delta R.T. -0.004 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:252 Resp: 491887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.7 | 17.4 | 26.0 |

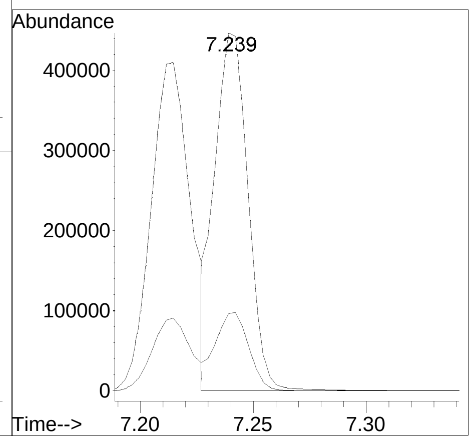


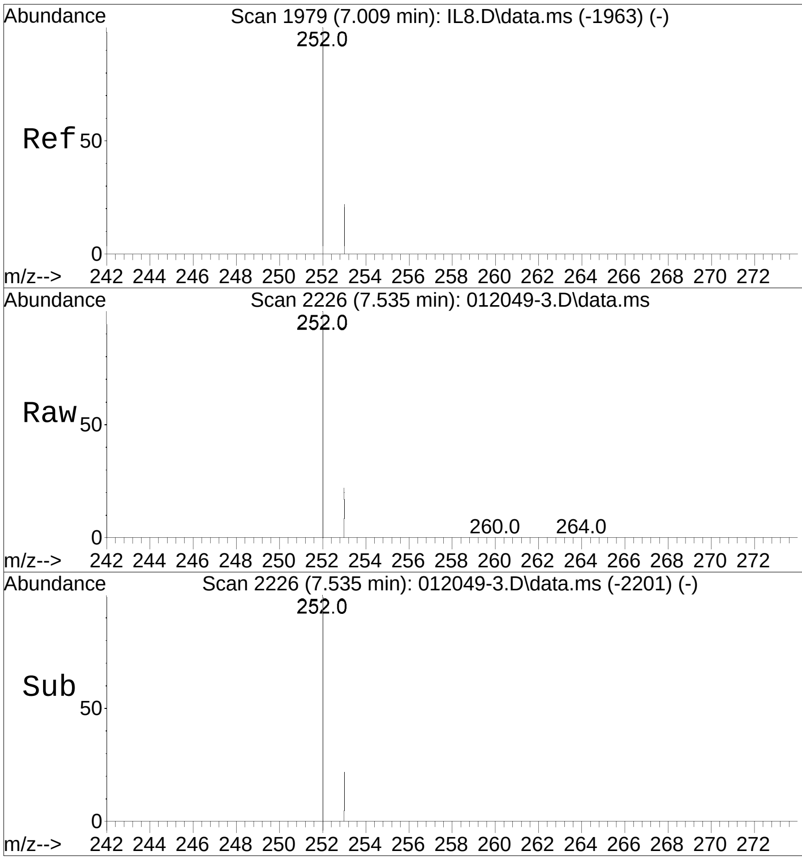



#38
Benzo[k]fluoranthene
Concen: 2315.46 ng/ml
RT: 7.239 min Scan# 2129
Delta R.T. -0.004 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:252 Resp: 458365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.0 | 17.6 | 26.4 |

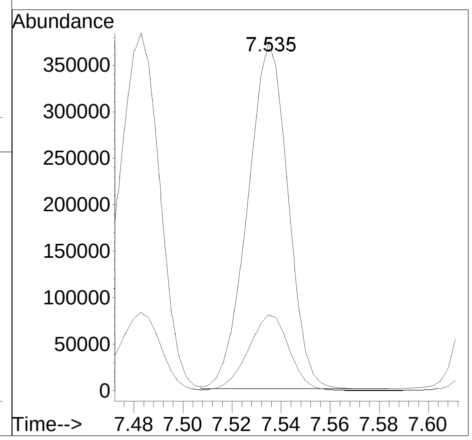


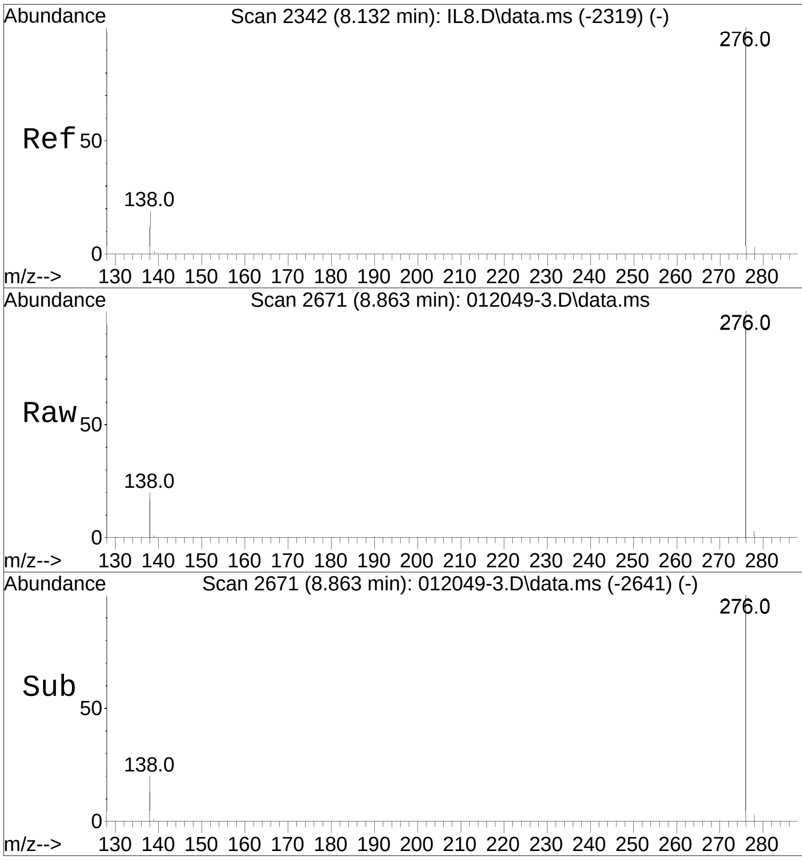



#39
Benzo[a]pyrene
Concen: 2354.00 ng/ml
RT: 7.535 min Scan# 2226
Delta R.T. -0.004 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:252 Resp: 424578

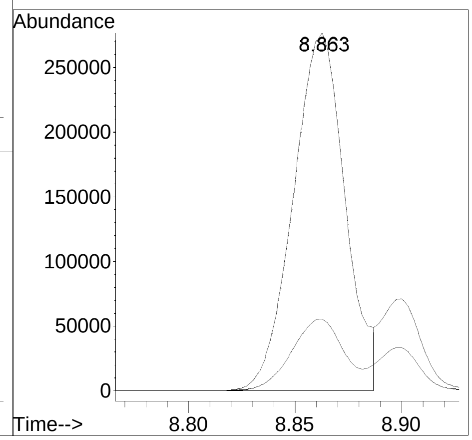
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.9 | 17.4 | 26.2 |

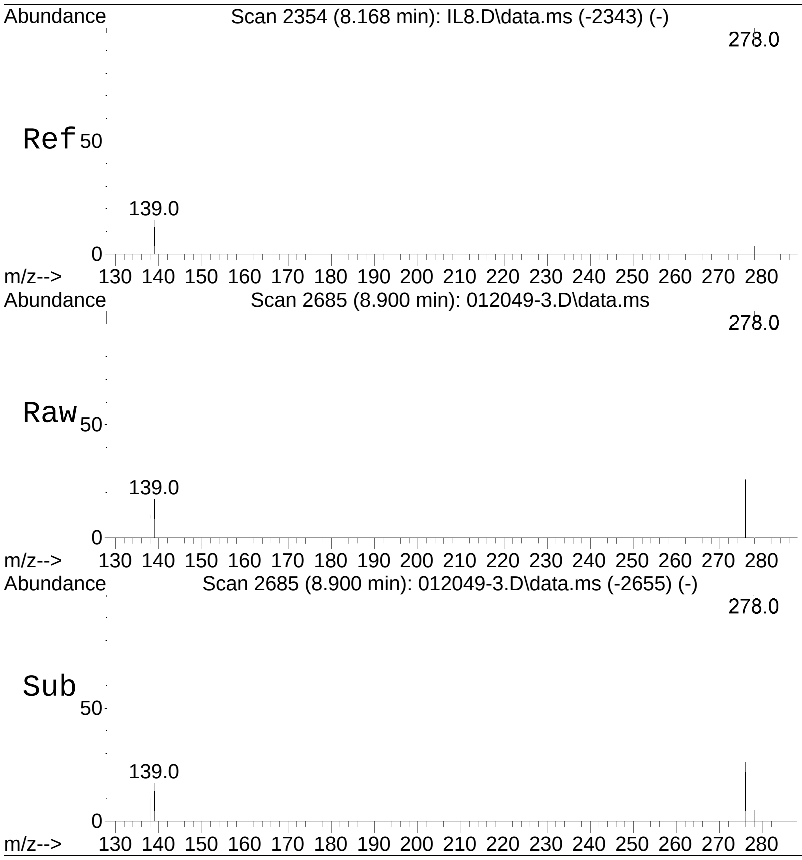





#40
Indeno[1,2,3-cd]pyrene
Concen: 2527.15 ng/ml
RT: 8.863 min Scan# 2671
Delta R.T. 0.001 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

| Tgt Ion:276 | | Resp: | 466082 |
|---|---|---|---|
| Ion | Ratio | Lower | Upper |
| 276 | 100 | | |
| 138 | 20.1 | 15.4 | 23.0 |

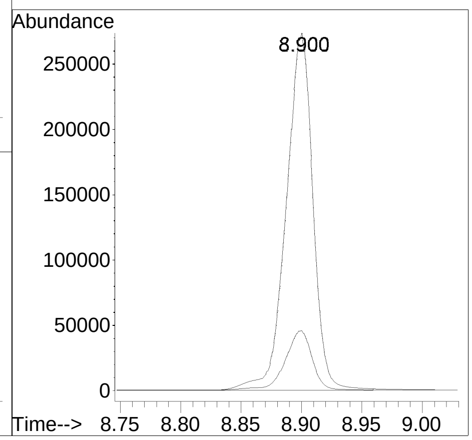


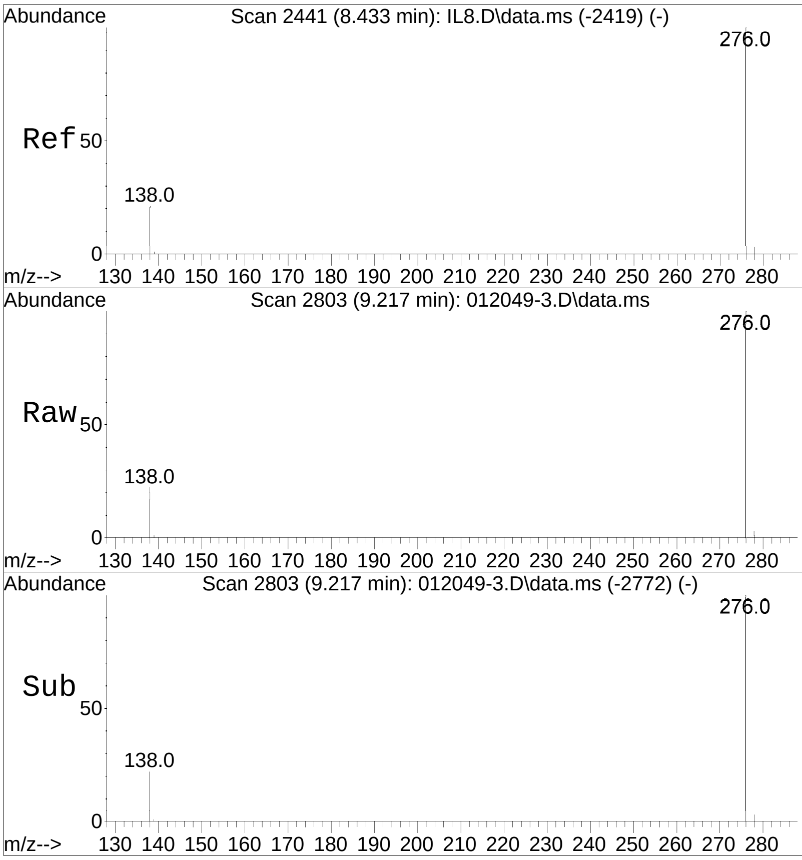



#41
Dibenzo[a,h]anthracene
Concen: 2420.53 ng/ml
RT: 8.900 min Scan# 2685
Delta R.T. 0.001 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:278 Resp: 419385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 16.9 | 13.0 | 19.6 |

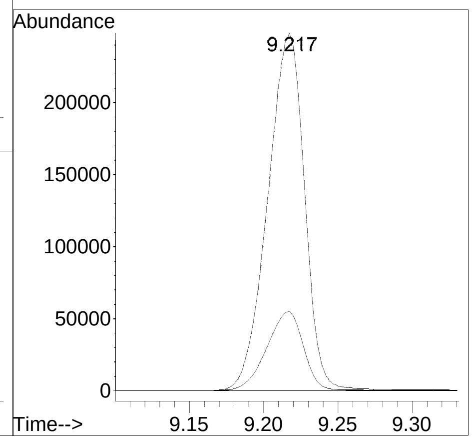





#42
Benzo[g,h,i]perylene
Concen: 2362.68 ng/ml
RT: 9.217 min Scan# 2803
Delta R.T. 0.003 min
Lab File: 012049-3.D
Acq: 22 Dec 2024 12:35 pm

Tgt Ion:276 Resp: 423209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 22.1 | 16.6 | 25.0 |



Manual Integration Report

```
Data Path   : I:\8270SIM\sv120\241222RVTQMethod     : SIM-RVT_241105_sv120.M
Data File   : 012049-3.D                Operator    : SV120:slr
Date Inj'd  : 12/22/2024 12:35 pm       Instrument  : SV120
Sample      : WG2012049-3,32,,kmh       Quant Date  : 12/22/2024 12:47 pm
```

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

# <u>Calculation of Semi Volatile Organic Compounds</u>

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Dec 24 2024, 08:29 am

Work Group: WG2012049 for Department: 2 Organic Preparation

Created: 20-DEC-24 Due: Operator: LJO

| Sample | Client ID | C | Product | Matrix | Stat | UA | HOLD | DUE | PR | Location |
|---|---|---|---|---|---|---|---|---|---|---|
| L2474156-01 | TW-05 | C | NYTCL-8270-SIM-RVT | WATER | DONE | U | 1224 | 1224 | S0 | Amber-A.1 |
| L2474162-01 | CO-122024 | S | NYTCL-8270-SIM-RVT | WATER | DONE | U | 1224 | 1224 | S0 | Amber-A.1 |
| L2474239-01 | TW-2 | C | NYTCL-8270-SIM-RVT | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.1 |
| L2474239-02 | TW-3 | C | NYTCL-8270-SIM-RVT | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.1 |
| L2474239-03 | TW-1 | C | NYTCL-8270-SIM-RVT | WATER | DONE | U | 1224 | 1224 | S0 | Amber-A.1 |
| L2474239-04 | TW-4 | C | NYTCL-8270-SIM-RVT | WATER | DONE | U | 1224 | 1224 | S0 | Amber-A.1 |
| L2474239-05 | TW-5 | C | NYTCL-8270-SIM-RVT | WATER | DONE | U | 1224 | 1224 | S0 | Amber-A.1 |
| L2474329-01 | MW-4S | C | NYTCL-8270-SIM-RVT | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.1 |
| L2474329-02 | MW-4D2 | C | NYTCL-8270-SIM-RVT | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.1 |
| L2474329-03 | MW-12S | C | NYTCL-8270-SIM-RVT | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.1 |
| L2474329-04 | MW-12D | C | NYTCL-8270-SIM-RVT | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.1 |
| L2474329-05 | EB-12162024 | C | NYTCL-8270-SIM-RVT | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.1 |
| L2474344-01 | MW-4 | C | NYTCL-8270-SIM-RVT | WATER | DONE | U | 1224 | 1224 | S0 | Amber-A.1 |
| L2474344-02 | MW-5 | C | NYTCL-8270-SIM-RVT | WATER | DONE | U | 1224 | 1224 | S0 | Amber-A.1 |
| L2474344-03 | MW-6 | C | NYTCL-8270-SIM-RVT | WATER | DONE | U | 1224 | 1224 | S0 | Amber-A.1 |
| L2474344-04 | FB20241217 | C | NYTCL-8270-SIM-RVT | WATER | DONE | U | 1224 | 1224 | S0 | Amber-A.1 |
| L2474344-06 | DUP20241217 | C | NYTCL-8270-SIM-RVT | WATER | DONE | U | 1224 | 1224 | S0 | Amber-A.1 |
| WG2012049-1 | Laboratory Method Bl | S | NYTCL-8270-SIM-RVT | WATER | DONE | U | | | | |
| WG2012049-2 | Laboratory Control S | S | NYTCL-8270-SIM-RVT | WATER | DONE | U | | | | |
| WG2012049-3 | LCS Duplicate | S | NYTCL-8270-SIM-RVT | WATER | DONE | U | | | | |

Comments:

WG2012049-3 WG2012049-2

Analysis log File

Total Files Reported in Log : 15
Log Generated From Directory: I:\8270SIM\SV118\241025RVTical\

| No. | DATA FILE | INJ METH | SAMPLE NAME | MISC | DATE INJ'D |
|---|---|---|---|---|---|
| 1 | L8scan.D | SIM-RVT.M | 1000 ng/ml | | 10/25/2024 2:23 pm |
| 2 | L8scana.D | SIM-RVT.M | 1000 ng/ml | | 10/25/2024 2:51 pm |
| 3 | TUNE.D | DFTPPRUN.M | TUNE | WG1990947,,ical | 10/25/2024 3:53 pm |
| 4 | L10.D | SIM-RVT.M | IL10,32,, #10885 5000 n | WG1990947,,ical | 10/25/2024 4:43 pm |
| 5 | L9.D | SIM-RVT.M | IL9,32,, #10901 2500 ng | WG1990947,,ical | 10/25/2024 5:01 pm |
| 6 | L8.D | SIM-RVT.M | IL8,32,, #10888 1000 ng | WG1990947,,ical | 10/25/2024 5:19 pm |
| 7 | L7.D | SIM-RVT.M | IL7,32,, #10889 500 ng/ | WG1990947,,ical | 10/25/2024 5:37 pm |
| 8 | L6.D | SIM-RVT.M | IL6,32,, #10899 100 ng/ | WG1990947,,ical | 10/25/2024 5:55 pm |
| 9 | L5.D | SIM-RVT.M | IL5,32,, #10891 40 ng/m | WG1990947,,ical | 10/25/2024 6:12 pm |
| 10 | L4.D | SIM-RVT.M | IL4,32,, #10892 10 ng/m | WG1990947,,ical | 10/25/2024 6:29 pm |
| 11 | L3.D | SIM-RVT.M | IL3,32,, #10893 5 ng/ml | WG1990947,,ical | 10/25/2024 6:46 pm |
| 12 | L2.D | SIM-RVT.M | IL2,32,, #10900 2 ng/ml | WG1990947,,ical | 10/25/2024 7:03 pm |
| 13 | L1.D | SIM-RVT.M | IL1,32,, #10895 1 ng/ml | WG1990947,,ical | 10/25/2024 7:21 pm |
| 14 | ICV.D | SIM-RVT.M | QCICV,32,, #10884 1000 | WG1990947,,ical | 10/25/2024 7:38 pm |
| 15 | instblk.D | SIM-RVT.M | | | 10/25/2024 7:55 pm |

Analysis log File

Total Files Reported in Log : 17
Log Generated From Directory: I:\8270SIM\sv120\241105RVTical\

| No. | DATA FILE | INJ METH | SAMPLE NAME | MISC | DATE INJ'D |
|---|---|---|---|---|---|
| 1 | TUNE.D | DFTPPRVT.M | TUNE | WG1993471 | 11/5/2024 6:14 am |
| 2 | ccvtest.D | fast-SIM-RVT | | | 11/5/2024 6:32 am |
| 3 | ccvtesta.D | fast-SIM-RVT | | | 11/5/2024 6:58 am |
| 4 | ccvtestb.D | fast-SIM-RVT | | | 11/5/2024 7:14 am |
| 5 | IL10.D | fast-SIM-RVT | IL10,32,,5000.0ng/mL lo | WG1993471 | 11/5/2024 7:30 am |
| 6 | IL9.D | fast-SIM-RVT | IL9,32,,2500.0ng/mL lot | WG1993471 | 11/5/2024 7:47 am |
| 7 | IL8.D | fast-SIM-RVT | IL8,32,,1000.0ng/mL lot | WG1993471 | 11/5/2024 8:03 am |
| 8 | IL7.D | fast-SIM-RVT | IL7,32,,500.0ng/mL lot# | WG1993471 | 11/5/2024 8:19 am |
| 9 | IL6.D | fast-SIM-RVT | IL6,32,,100.0ng/mL lot# | WG1993471 | 11/5/2024 8:36 am |
| 10 | IL5.D | fast-SIM-RVT | IL5,32,,40.0ng/mL lot# | WG1993471 | 11/5/2024 8:52 am |
| 11 | IL4.D | fast-SIM-RVT | IL4,32,,10.0ng/mL lot#1 | WG1993471 | 11/5/2024 9:08 am |
| 12 | IL3.D | fast-SIM-RVT | IL3,32,,5.0ng/mL lot# 1 | WG1993471 | 11/5/2024 9:24 am |
| 13 | IL2.D | fast-SIM-RVT | IL2,32,,2.0ng/mL lot# 1 | WG1993471 | 11/5/2024 9:41 am |
| 14 | IL1.D | fast-SIM-RVT | IL1,32,,1.0ng/mL lot# 1 | WG1993471 | 11/5/2024 9:57 am |
| 15 | ICV.D | fast-SIM-RVT | CQICV,32,,1000.0ng/mL l | WG1993471 | 11/5/2024 10:13 am |
| 16 | insblk.D | fast-SIM-RVT | instrument blank | WG1993471 | 11/5/2024 10:29 am |
| 17 | ccvtestn.D | fast-SIM-RVT | | | 11/5/2024 4:39 pm |

Dep.: GCMS
Inst: SV118
Date: **12/21/24**
Run: a

Method
GC: SIM RVT

Seq: WG2012269
ICAL: 21646

| Vial | Data File | Sample | CCAL/Notes | Screen | Verified | initials |
|---|---|---|---|---|---|---|
| 48 | deg1221a | wg-1,32,,dftpp SV118 lot #11210 | | | | slr 12/23 |
| 49 | ccv1221a | wg-3,32,,ICV 10884 (1221b) | | | | slr 12/23 |
| 50 | blank1221a | instrument blank | | | | |
| | | | | | | |
| 1 | 011991-1 | WG2011991-1,32,,rp | | | | slr 12/23 |
| 2 | 011991-2 | WG2011991-2,32,,rp | | | | slr 12/23 |
| 3 | 011991-3 | WG2011991-3,32,,rp | | | | slr 12/23 |
| 4 | 74344-04 | L2474344-04,32,,rp | | | | slr 12/23 |
| 5 | 73998-23 | L2473998-23,32,,rp | RV, HCB >RL | | | slr 12/23 |
| 6 | 74329-01 | L2474329-01,32,,rp | | | | slr 12/23 |
| 7 | 74329-02 | L2474329-02,32,,rp | | | | slr 12/23 |
| 8 | 74329-03 | L2474329-03,32,,rp | | | | slr 12/23 |
| 9 | 74329-04 | L2474329-04,32,,rp | | | | slr 12/23 |
| 10 | 74329-05 | L2474329-05,32,,rp | | | | slr 12/23 |
| 11 | 74344-01 | L2474344-01,32,,rp | | | | slr 12/23 |
| 12 | 74344-02 | L2474344-02,32,,rp | | | | slr 12/23 |
| 13 | 74344-03 | L2474344-03,32,,rp | | | | slr 12/23 |
| 14 | 74344-06 | L2474344-06,32,,rp | | | | slr 12/23 |
| 15 | 74100-17 | L2474100-17,32,,rp | | | | slr 12/23 |
| 16 | 73998-07 | L2473998-07,32,,rp | | | | slr 12/23 |
| 17 | 73998-08 | L2473998-08,32,,rp | | | | slr 12/23 |
| 18 | 73998-09 | L2473998-09,32,,rp | | | | slr 12/23 |
| 19 | 73998-10 | L2473998-10,32,,rp | | | | slr 12/23 |
| 20 | 73998-11 | L2473998-11,32,,rp | | | | slr 12/23 |
| 21 | 73998-12 | L2473998-12,32,,rp | | | | slr 12/23 |
| 22 | 73998-13 | L2473998-13,32,,rp | | | | slr 12/23 |
| 23 | 73998-14 | L2473998-14,32,,rp | | | | slr 12/23 |
| 24 | 73998-15 | L2473998-15,32,,rp | | | | slr 12/23 |
| 25 | 73998-16 | L2473998-16,32,,rp | | | | slr 12/23 |
| 26 | 73998-17 | L2473998-17,32,,rp | 5x MIS | | | slr 12/23 |
| 27 | 73998-18 | L2473998-18,32,,rp | | | | slr 12/23 |
| 28 | 73998-19 | L2473998-19,32,,rp | | | | slr 12/23 |
| 29 | 73998-20 | L2473998-20,32,,rp | 5x MIS | | | slr 12/23 |
| 30 | 73998-21 | L2473998-21,32,,rp | | | | slr 12/23 |
| 31 | 73998-22 | L2473998-22,32,,rp | | | | slr 12/23 |
| 32 | 74088-01 | L2474088-01,32,,rp | | | | slr 12/23 |
| 33 | 74088-06 | L2474088-06,32,,rp | | | | slr 12/23 |
| 34 | 74088-08 | L2474088-08,32,,rp | | | | slr 12/23 |
| 35 | 74088-09 | L2474088-09,32,,rp | RX surr <10% | | | slr 12/23 |
| 36 | 74088-10 | L2474088-10,32,,rp | | | | slr 12/23 |
| 37 | 74088-13 | L2474088-13,32,,rp | | | | slr 12/23 |
| 38 | 011120-4 | WG2011120-4,32,,rp | | | | |
| 39 | 011120-5 | WG2011120-5,32,,rp | | | | |
| 40 | 53108-89 | L2453108-89,32,,rp | | | RAP | |
| | | | | | Sv-kmh | |

| 241222 | 2024 | SV120 |
|---|---|---|

Dep.: GCMS
Inst: SV120
Date: **12/22/24**
Run:

Method
GC: SIM RVT

Seq: WG2012326
ICAL: ICAL21668

| Vial | Data File | Sample | CCAL/Notes | Screen | Verified | Initials |
|---|---|---|---|---|---|---|
| 48 | deg1222 | wg-1,32,, dftpp SV120 lot#11165 | | | | 12/23 DV |
| 49 | ccv1222 | wg-3,32,,ICV 10884 (1221b) | | | | 12/23 DV |
| 50 | blk1222 | Instrument Blank | | | | |
| | | | | | | |
| 1 | 73714-08 | L2473714-08,32,,kmh | | | | 12/23 DV |
| 2 | 73714-09 | L2473714-09,32,,kmh | | | | 12/23 DV |
| 3 | 73714-10 | L2473714-10,32,,kmh | | | | 12/23 DV |
| 4 | 73714-11 | L2473714-11,32,,kmh | | | | 12/23 DV |
| 5 | 73714-12 | L2473714-12,32,,kmh | | | | 12/23 DV |
| 6 | 73714-13 | L2473714-13,32,,kmh | | | | 12/23 DV |
| 7 | 73714-14 | L2473714-14,32,,kmh | | | | 12/23 DV |
| 8 | 73714-15 | L2473714-15,32,,kmh | | | | 12/23 DV |
| 9 | 73714-16 | L2473714-16,32,,kmh | | | | 12/23 DV |
| 10 | 73714-17 | L2473714-17,32,,kmh | | | | 12/23 DV |
| 11 | 73714-18 | L2473714-18,32,,kmh | RV, surro<10% | | | 12/23 DV |
| 12 | 73714-19 | L2473714-19,32,,kmh | | | | 12/23 DV |
| 13 | 73714-20 | L2473714-20,32,,kmh | | | | 12/23 DV |
| 14 | 73714-21 | L2473714-21,32,,kmh | | | | 12/23 DV |
| 15 | 74098-26 | L2474098-26,32,,R3B,kmh | | | | |
| 16 | 74098-27 | L2474098-27,32,,R3B,kmh | | | | |
| 17 | 012049-2 | WG2012049-2,32,,kmh | | | | slr 12/23 |
| 18 | 012049-3 | WG2012049-3,32,,kmh | | | | slr 12/23 |
| 19 | 012049-1 | WG2012049-1,32,,kmh | | | | slr 12/23 |
| 20 | 74239-01 | L2474239-01,32,,kmh | | | | 12/23 DV |
| 21 | 74239-02 | L2474239-02,32,,kmh | | | | 12/23 DV |
| 22 | 74239-03 | L2474239-03,32,,kmh | | | | 12/23 DV |
| 23 | 74239-04 | L2474239-04,32,,kmh | | | | 12/23 DV |
| 24 | 74239-05 | L2474239-05,32,,kmh | | | | 12/23 DV |
| 25 | 74156-01 | L2474156-01,32,,kmh | | | | 12/23 DV |
| 26 | 011579-2 | WG2011579-2,32,,RV,kmh | | | | 12/23 DV |
| 27 | 011579-3 | WG2011579-3,32,,RV,kmh | | | | 12/23 DV |
| 28 | 75101-02 | L2475101-02,32,,R3B,RV,kmh | RX no acids in QC | | | 12/23 DV |
| 29 | 012257-2 | WG2012257-2,32,,kmh | RV IS high | | | slr 12/24 |
| 30 | 012257-3 | WG2012257-3,32,,kmh | RV IS high | | | slr 12/24 |
| 31 | 012257-1 | WG2012257-1,32,,kmh | RV IS high | | | slr 12/24 |
| 32 | 74816-01 | L2474816-01,32,,kmh | RV IS high | | | slr 12/24 |
| 33 | 74816-02 | L2474816-02,32,,kmh | | | | slr 12/24 |
| 34 | 74816-03 | L2474816-03,32,,kmh | | | | slr 12/24 |
| 35 | 74816-04 | L2474816-04,32,,kmh | | | | slr 12/24 |
| 36 | 74816-05 | L2474816-05,32,,kmh | | | | slr 12/24 |
| 37 | 74816-06 | L2474816-06,32,,kmh | | | | slr 12/24 |
| 38 | 74816-07 | L2474816-07,32,,kmh | | | | slr 12/24 |
| 39 | 74816-08 | L2474816-08,32,,kmh | | | kmh | slr 12/24 |

Dep.: GCMS
Inst: SV120
Date: **12/22/24**
Run:

Method
GC: SIM RVT

Seq: WG2012326
ICAL: ICAL21668

| Vial | Data File | Sample | CCAL/Notes | Screen | Verified | Initials |
|---|---|---|---|---|---|---|
| | | | | | sv akm | |

# ORGANIC ELN REPORT

**Workgroup:** WG2012049

**Prep Method:** EPA 3510C
**Solvent Type:** DCM **Lot #:** EJ507
**Surrogate Type:** ABN **Lot #:** 11164av,05/20/2025,4c,7,1
**Spike Type:** ABN-SIM **Lot #:** 11106aj,04/23/2025 ;; 11092ac,
**Spike Verify by:** LJO
**Lims Spikelot:** 8270-RVT

**Additional Reagents/Stds**

| | |
|---|---|
| H2SO4 | A120224 |
| Na2SO4 | 23K2961078 |
| NaOH | 10NNaOH120224 |

**Conc.Method:** Buchi
**Solvent Type:** DCM
**Lot #:** EJ507

**Additional Reagents/Stds**

***Cleanup 1***

**Cleanup Method 1:**
**Cleanup Method 2:**
**Solvent Type:** **Lot #:**

**Additional Reagents/Stds**

| Sample/ Type | Extraction: Extract Date | Analyst | Sample Vol ml | Ph | Surr Amt ml | Spike Amt ml | Concentration: Conc Date | Analyst | Final Vol ml | Conc Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| L2474156-01 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474162-01 SAMP | 12/21/24 20:35 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/22/24 01:51 | Shaylee Amidon | 1 | K |
| L2474239-01 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474239-02 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474239-03 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |



Reported: 24-DEC-24 08:29 AM

# ORGANIC ELN REPORT

**Workgroup: WG2012049**

| Sample/ Type | Extraction: Extract Date | Analyst | Sample Vol ml | Ph | Surr Amt ml | Spike Amt ml | Concentration: Conc Date | Analyst | Final Vol ml | Conc Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| L2474239-04 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474239-05 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474329-01 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474329-02 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474329-03 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474329-04 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474329-05 SAMP | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474344-01 WATER | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |



Reported: 24-DEC-24 08:29 AM

# ORGANIC ELN REPORT

**Workgroup: WG2012049**

| Sample/ Type | **Extraction** Extract Date | Analyst | Sample Vol **ml** | Ph | Surr Amt **ml** | Spike Amt **ml** | **Concentration** Conc Date | Analyst | Final Vol **ml** | Conc Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| L2474344-02 WATER | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474344-03 WATER | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474344-04 WATER | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| L2474344-06 WATER | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| WG2012049-1 BLANK | 12/20/24 21:39 **COMBO WITH WG2012045** | Luke O'Donnell | 100 | <2, >12 | .1 | | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| WG2012049-2 LCS | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | .1 | 12/21/24 01:26 | Shaylee Amidon | 1 | K |
| WG2012049-3 LCSD | 12/20/24 21:39 | Luke O'Donnell | 100 | <2, >12 | .1 | .1 | 12/21/24 01:26 | Shaylee Amidon | 1 | K |



Reported: 24-DEC-24 08:29 AM

# GCMS Extractables 1,4-Dioxane By SIM

# Semivolatiles QC Summary

# Surrogate Recovery Summary
# Form 2
# Semivolatiles

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

**Lab Number: L2474329**
**Project Number: 2232.0006Y005**
**Matrix: Water**

| CLIENT ID (LAB SAMPLE NO.) | S1 () | S2 () | S3 () | S4 () | S5 () | S6 () | TOT OUT |
|---|---|---|---|---|---|---|---|
| MW-4S (L2474329-01) | 29 | -- | -- | -- | -- | -- | 0 |
| WG2010978-1BLANK | 42 | -- | -- | -- | -- | -- | 0 |
| WG2010978-2LCS | 45 | -- | -- | -- | -- | -- | 0 |
| WG2010978-3LCSD | 42 | -- | -- | -- | -- | -- | 0 |

**QC LIMITS**
**(15-110)** **S1 = 1,4-DIOXANE-D8**

*** Values outside of QC limits**

**FORM II A2-14-DIOXANESIM-PPB**

# Laboratory Control Sample Summary
# Form 3
# Semivolatiles

**Client** : Roux Env. Eng. & Geology, DPC  **Lab Number** : L2474329
**Project Name** : CORAM MATERIALS  **Project Number** : 2232.0006Y005
**Matrix (Level)** : WATER (LOW)
**LCS Sample ID** : WG2010978-2  **Analysis Date** : 12/24/24 10:19  **File ID** : F612242405
**LCSD Sample ID** : WG2010978-3  **Analysis Date** : 12/24/24 10:43  **File ID** : F612242406

| | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Parameter | True (ug/l) | Found (ug/l) | %R | True (ug/l) | Found (ug/l) | %R | RPD | Recovery Limits | RPD Limit |
| 1,4-Dioxane | 5 | 6.32 | 126 | 5 | 6.43 | 128 | 2 | 40-140 | 30 |

# Method Blank Summary
# Form 4
# Semivolatiles

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Lab Sample ID** | : WG2010978-1 | **Lab File ID** | : F612242403 |
| **Instrument ID** | : GCMS6 | **Extraction Date** | : 12/18/24 |
| **Matrix** | : WATER | **Analysis Date** | : 12/24/24 09:32 |
| **Level** | : LOW | | |

| Client Sample No. | Lab Sample ID | Analysis Date |
|---|---|---|
| WG2010978-2LCS | WG2010978-2 | 12/24/24 10:19 |
| WG2010978-3LCSD | WG2010978-3 | 12/24/24 10:43 |
| MW-4S | L2474329-01 | 12/24/24 16:51 |

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

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Instrument ID** | : GCMS6 | **Analysis Date** | : 12/20/24 14:05 |
| **Tune Standard** | : R1914537-1 | **Tune File ID** | : F612202401_tune |

| m/e | Ion Abundance Criteria | %Relative Abundance |
|---|---|---|
| 51 | 10.0 - 80.0% of Base Peak | 29.2 |
| 68 | Less than 2.0% of mass 69 | 0 (0 )1 |
| 70 | Less than 2.0% of mass 69 | 0.2 (.5 )1 |
| 127 | 10.0 - 80.0% of Base Peak | 46.1 |
| 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 | 26.4 |
| 365 | Greater than 1.0% of mass 198 | 2.1 |
| 441 | Present, but less than 24% of mass 442 | 15.5 |
| 442 | Base Peak, or >50% of mass 198 | 60.2 |
| 443 | 15.0 - 24.0% of mass 442 | 11.5 (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 |
|---|---|---|---|
| STD 10 | R1914537-3 | F612202402 | 12/20/24 14:44 |
| STD 50 | R1914537-2 | F612202403 | 12/20/24 15:09 |
| STD 100 | R1914537-5 | F612202404 | 12/20/24 15:34 |
| STD 500 | R1914537-4 | F612202405 | 12/20/24 15:58 |
| STD 1000 | R1914537-6 | F612202406 | 12/20/24 16:24 |
| STD 5000 | R1914537-7 | F612202407 | 12/20/24 16:49 |
| STD 10000 | R1914537-8 | F612202408 | 12/20/24 17:13 |
| ICV QUANT REPORT | R1914537-9 | F612202409 | 12/20/24 17:38 |

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

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : | **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : | **L2474329** |
| **Project Name** | : | **CORAM MATERIALS** | **Project Number** | : | **2232.0006Y005** |
| **Instrument ID** | : | **GCMS6** | **Analysis Date** | : | **12/24/24 08:14** |
| **Tune Standard** | : | **WG2013199-1** | **Tune File ID** | : | **F612242401_tune** |

| m/e | Ion Abundance Criteria | %Relative Abundance |
|---|---|---|
| 51 | 10.0 - 80.0% of Base Peak | 29 |
| 68 | Less than 2.0% of mass 69 | 0 (0 )1 |
| 70 | Less than 2.0% of mass 69 | 0.2 (.5 )1 |
| 127 | 10.0 - 80.0% of Base Peak | 45.7 |
| 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 | 7 |
| 275 | 10.0 - 60.0% of Base Peak | 28.4 |
| 365 | Greater than 1.0% of mass 198 | 2.3 |
| 441 | Present, but less than 24% of mass 442 | 16.2 |
| 442 | Base Peak, or >50% of mass 198 | 60.3 |
| 443 | 15.0 - 24.0% of mass 442 | 11.4 (18.9)2 |

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

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

| Client Sample ID | Lab Sample ID | File ID | Analysis Date/Time |
|---|---|---|---|
| WG2013199-2CCAL | WG2013199-2 | F612242402 | 12/24/24 08:54 |
| WG2010978-1BLANK | WG2010978-1 | F612242403 | 12/24/24 09:32 |
| WG2010978-2LCS | WG2010978-2 | F612242405 | 12/24/24 10:19 |
| WG2010978-3LCSD | WG2010978-3 | F612242406 | 12/24/24 10:43 |
| MW-4S | L2474329-01 | F612242421 | 12/24/24 16:51 |

# Internal Standard Area and RT Summary
# Form 8a
# Semivolatiles

| | | | |
|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Instrument ID** | : **GCMS6** | **Analysis Date** | : **12/24/24 08:54:00** |
| **Sample No** | : **WG2013199-2** | **Lab File ID** | : **F612242402** |

| | 1,4-Dichlorobenzene-d4 | | | | | |
|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT |
| WG2013199-2 | 58772 | 8.45 | | | | |
| Upper Limit | 117544 | 8.95 | | | | |
| Lower Limit | 29386 | 7.95 | | | | |
| Sample ID | | | | | | |
| WG2010978-1 BLANK | 53389 | 8.45 | | | | |
| WG2010978-2 LCS | 51486 | 8.45 | | | | |
| WG2010978-3 LCSD | 53307 | 8.46 | | | | |
| MW-4S | 52277 | 8.45 | | | | |

Area Upper Limit = +100% of internal standard area

Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT

RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 03/21/22
Created By: Jason Hebert
File: PM12115-1
Page: 1

**1,4 Dioxane via EPA 8270D-SIM (WATER)**

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 250ml unpreserved

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Surrogate Criteria | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 123-91-1 | 150 | 33.9 | ng/l | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| *1,4-Dioxane-d8* | *17647-74-4* | | | | | | | | | *15-110* | | |
| 1,4-Dioxane-d8 (IS) | 17647-74-4 | | | ng/l | | | | | | | | |

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

**Date Created:** 03/21/22
**Created By:** Jason Hebert
**File:** PM12118-1
**Page:** 1

**1,4 Dioxane via EPA 8270D-SIM (SOIL)**

**Holding Time:** 14 days
**Container/Sample Preservation:** 1 - Glass 250ml/8oz unpreserved

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Surrogate Criteria | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 123-91-1 | 8 | 2.04 | ug/kg | 40-140 | 30 | 40-140 | 30 | 30 | | | |
| *1,4-Dioxane-d8* | *17647-74-4* | | | | | | | | | *15-110* | | |
| 1,4-Dioxane-d8 (IS) | 17647-74-4 | | | ug/kg | | | | | | | | |

*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.***

# Semivolatile Sample Data

# Results Summary
# Form 1
# 1,4 Dioxane by 8270E-SIM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-01 | Date Collected | : 12/16/24 11:00 |
| Client ID | : MW-4S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/24/24 16:51 |
| Sample Matrix | : WATER | Date Extracted | : 12/18/24 |
| Analytical Method | : 1,8270E-SIM | Dilution Factor | : 1 |
| Lab File ID | : F612242421 | Analyst | : GRS |
| Sample Amount | : 270 ml | Instrument ID | : GCMS6 |
| Extraction Method | : EPA 3510C | GC Column | : RTX-5 |
| Extract Volume | : 2500 uL | %Solids | : N/A |
| GPC Cleanup | : N | Injection Volume | : 1 uL |

| | | ug/L | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 123-91-1 | 1,4-Dioxane | ND | 0.139 | 0.0314 | U |

# Results Summary
# Form 1
# 1,4 Dioxane by 8270E-SIM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2010978-1 | Date Collected | : NA |
| Client ID | : WG2010978-1BLANK | Date Received | : NA |
| Sample Location | : | Date Analyzed | : 12/24/24 09:32 |
| Sample Matrix | : WATER | Date Extracted | : 12/18/24 |
| Analytical Method | : 1,8270E-SIM | Dilution Factor | : 1 |
| Lab File ID | : F612242403 | Analyst | : GRS |
| Sample Amount | : 250 ml | Instrument ID | : GCMS6 |
| Extraction Method | : EPA 3510C | GC Column | : RTX-5 |
| Extract Volume | : 2500 uL | %Solids | : N/A |
| GPC Cleanup | : N | Injection Volume | : 1 uL |

| CAS NO. | Parameter | ug/L Results | RL | MDL | Qualifier |
|---|---|---|---|---|---|
| 123-91-1 | 1,4-Dioxane | ND | 0.150 | 0.0339 | U |

Quantitation Report    (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\
Data File : F612242421.D
Acq On    : 24 Dec 2024   4:51 pm
Operator  : GCMS6:GRS
Sample    : l2474329-01,32,,
Misc      : WG2013199,WG2010978,ICAL21808
ALS Vial  : 21   Sample Multiplier: 1

Quant Time: Dec 26 10:04:00 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\14DIOX1220GCMS6.M
Quant Title  : Semivolatiles by GC/MS
QLast Update : Thu Dec 26 10:03:07 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dioxane-d8 (IS) | 4.294 | 64 | 5149 | 500.000 | ng/mL | 0.02 |
| 3) 1,4-Dichlorobenzene-d4 | 8.449 | 152 | 52277 | 500.000 | ng/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 1,4-dioxane-d8 | 4.294 | 64 | 5149 | 146.571 | ng/mL | 0.02 |
| Spiked Amount 500.000 | Range 15 - 115 | | Recovery = | 29.31% | | |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-dioxane | 0.000 | | 0 | N.D. | d | |

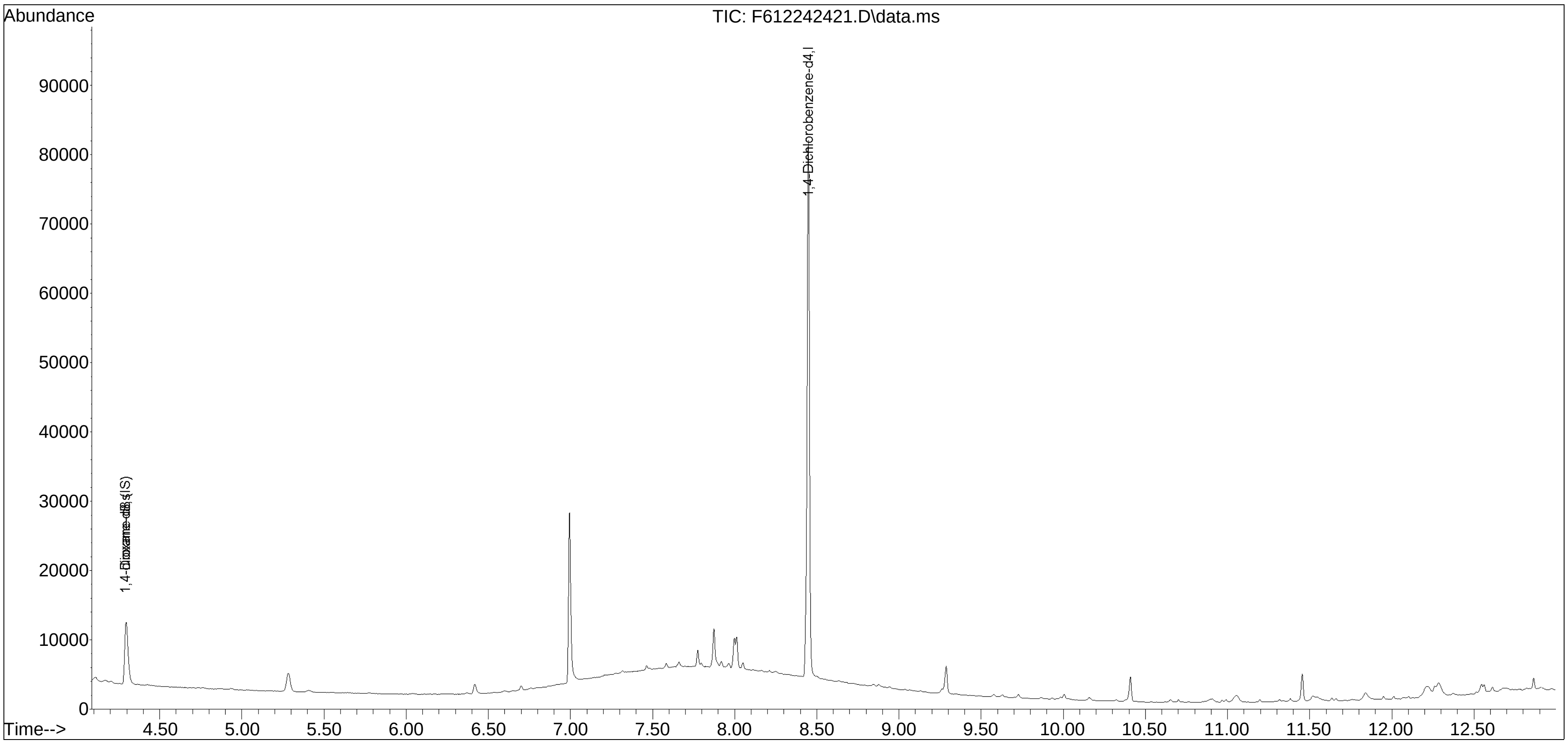
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\
Data File : F612242421.D
Acq On : 24 Dec 2024 4:51 pm
Operator : GCMS6:GRS
Sample : l2474329-01,32,,
Misc : WG2013199,WG2010978,ICAL21808
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 26 10:04:00 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\14DIOX1220GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Dec 26 10:03:07 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

```
Data Path   : S:\Organics-NEW\DATA\GCMS6\QMethod     : 14DIOX1220GCMS6.M
Data File   : F612242421.D              Operator    : GCMS6:GRS
Date Inj'd  : 12/24/2024  4:51 pm       Instrument  : GCMS 6
Sample      : l2474329-01,32,,          Quant Date  : 12/26/2024 10:04 am
```

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

# Semivolatiles Standards Data

# Initial Calibration

# Initial Calibration Summary
# Form 6
# Semivolatiles

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Instrument ID** | **: GCMS6** | **Ical Ref** | **: ICAL21808** |
| **Calibration dates** | **: 12/20/24 14:44 12/20/24 17:13** | | |

Calibration Files

10 =F612202402.D 50 =F612202403.D 100 =F612202404.D 500 =F612202405.D 1000=F612202406.D

5000=F612202407.D 1e04=F612202408.D

| | Compound | 10 | 50 | 100 | 500 | 1000 | 5000 | 1e04 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | 1,4-Dioxane-d8 (IS) | ----------------ISTD--------------------- | | | | | | | | |
| 2) | 1,4-dioxane | 1.317 | 1.392 | 1.369 | 1.292 | 1.364 | 1.369 | 1.372 | 1.354 | 2.63 |
| 3) I | 1,4-Dichlorobenzene-d4 | ----------------ISTD--------------------- | | | | | | | | |
| 4) s | 1,4-dioxane-d8 | 0.344 | 0.334 | 0.321 | 0.343 | 0.334 | 0.337 | 0.337 | 0.336 | 2.26 |

Response Factor Report GCMS 6

Method Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\
Method File : 14DIOX1220GCMS6.M
Title : Semivolatiles by GC/MS
Last Update : Sat Dec 21 11:21:47 2024
Response Via : Initial Calibration

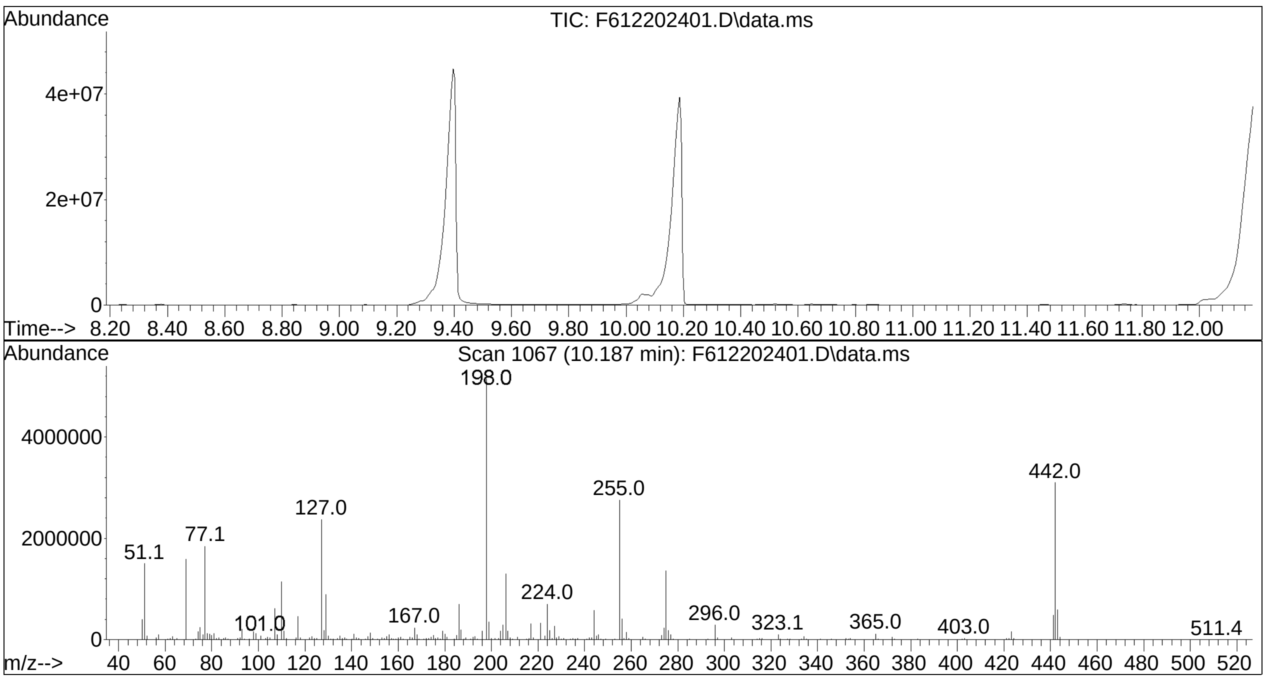
Calibration Files
10 =F612202402.D 50 =F612202403.D 100 =F612202404.D 500 =F612202405.D 1000=F612202406.D
5000=F612202407.D 1e04=F612202408.D

| | Compound | 10 | 50 | 100 | 500 | 1000 | 5000 | 1e04 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | 1,4-Dioxane-d8 (IS) | ----------------ISTD--------------------- | | | | | | | | |
| 2) | 1,4-dioxane | 1.317 | 1.392 | 1.369 | 1.292 | 1.364 | 1.369 | 1.372 | 1.354 | 2.63 |
| 3) I | 1,4-Dichlorobenzene-d4 | ----------------ISTD--------------------- | | | | | | | | |
| 4) s | 1,4-dioxane-d8 | 0.344 | 0.334 | 0.321 | 0.343 | 0.334 | 0.337 | 0.337 | 0.336 | 2.26 |

(#) = Out of Range

DFTPP

```
Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\
Data File : F612202401.D
Acq On    : 20 Dec 2024   2:05 pm
Operator  : GCMS6:GRS
Sample    : T612202401
Misc      : WG2012648,MSBV35
ALS Vial  : 1   Sample Multiplier: 1

Integration File: RTEINT.P

Method    : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\14DIOX1220GCMS6.M
Title     : Semivolatiles by GC/MS
Last Update  : Sat Dec 21 11:21:47 2024
```




Spectrum Information: Scan 1067

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 29.2 | 1502208 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 8621 | PASS |
| 127 | 198 | 10 | 80 | 46.1 | 2377216 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 5151744 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 348352 | PASS |
| 275 | 198 | 10 | 60 | 26.4 | 1358336 | PASS |
| 365 | 198 | 1 | 100 | 2.1 | 110136 | PASS |
| 441 | 442 | 0.01 | 24 | 15.5 | 480064 | PASS |
| 442 | 198 | 50 | 100 | 60.2 | 3100160 | PASS |
| 443 | 442 | 15 | 24 | 19.2 | 594304 | PASS |

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\
Data File : F612202402.D
Acq On : 20 Dec 2024 2:44 pm
Operator : GCMS6:GRS
Sample : I612202401
Misc : WG2012648,MSBV28
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 21 11:22:07 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\14DIOX1220GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Sat Dec 21 11:21:50 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) 1,4-Dioxane-d8 (IS) | 4.327 | 64 | 17278 | 500.000 ng/mL | 0.00 |
| 3) 1,4-Dichlorobenzene-d4 | 8.483 | 152 | 50170 | 500.000 ng/mL | 0.00 |
| System Monitoring Compounds | | | | | |
| 4) 1,4-dioxane-d8 | 4.327 | 64 | 17278 | 512.488 ng/mL | 0.00 |
| Spiked Amount 500.000 | Range 15 - 115 | | Recovery = 102.50% | | |
| Target Compounds | | | | | Qvalue |
| 2) 1,4-dioxane | 4.402 | 88 | 455 | 9.728 ng/mL | 94 |

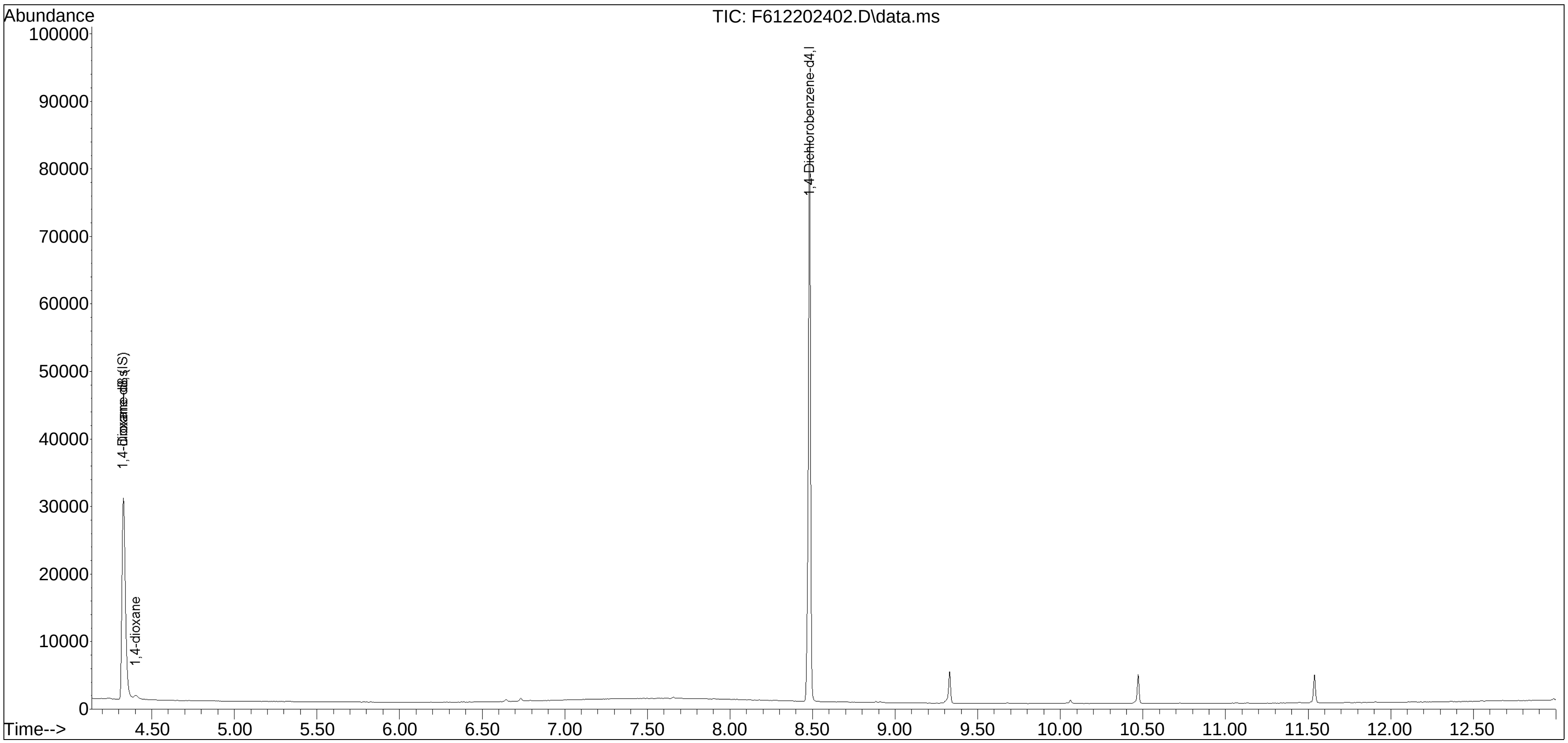
(#) = qualifier out of range (m) = manual integration (+) = signals summed

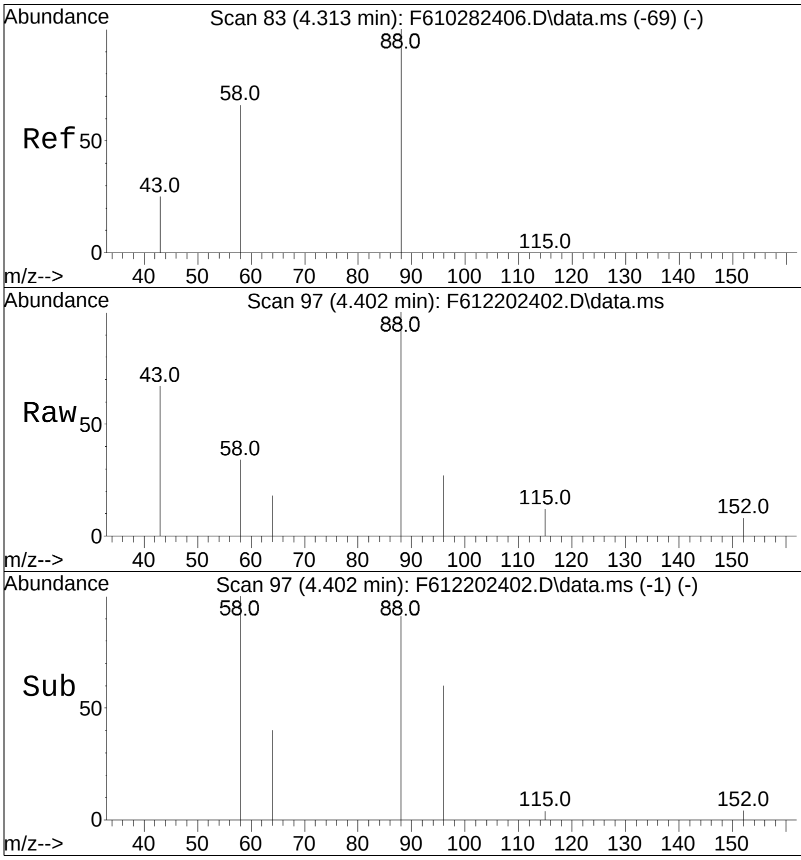
Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\
Data File : F612202402.D
Acq On : 20 Dec 2024 2:44 pm
Operator : GCMS6:GRS
Sample : I612202401
Misc : WG2012648,MSBV28
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 21 11:22:07 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\14DIOX1220GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Sat Dec 21 11:21:50 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

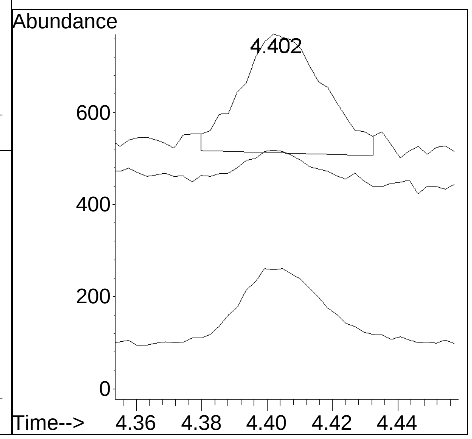





#2
1,4-dioxane
Concen: 9.73 ng/mL
RT: 4.402 min Scan# 97
Delta R.T. 0.008 min
Lab File: F612202402.D
Acq: 20 Dec 2024 2:44 pm

Tgt Ion: 88 Resp: 455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 62.6 | 54.7 | 82.1 |
| 43 | 24.2 | 20.6 | 31.0 |



Manual Integration/Negative Proof Report

```
Data Path   : S:\Organics-NEW\DATA\GCMS6\QMethod     : 14DIOX1220GCMS6.M
Data File   : F612202402.D              Operator    : GCMS6:GRS
Date Inj'd  : 12/20/2024  2:44 pm       Instrument  : GCMS 6
Sample      : I612202401                Quant Date  : 12/21/2024 11:22 am
```

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

Quantitation Report (QT Reviewed)

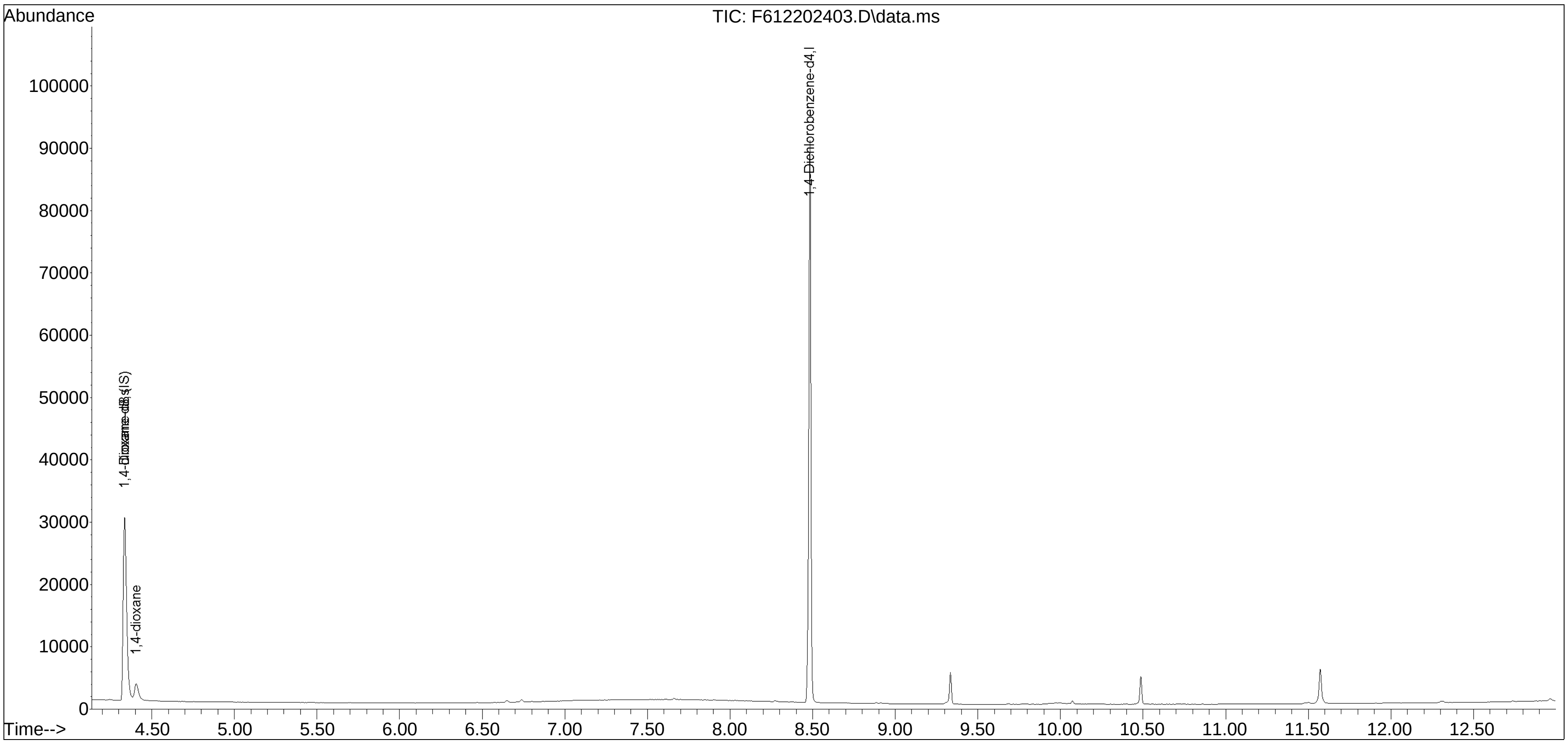
```
Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\
Data File : F612202403.D
Acq On    : 20 Dec 2024   3:09 pm
Operator  : GCMS6:GRS
Sample    : I612202402
Misc      : WG2012648,MSBV29
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Dec 21 11:22:10 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\14DIOX1220GCMS6.M
Quant Title  : Semivolatiles by GC/MS
QLast Update : Sat Dec 21 11:21:50 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listed

        Compound                       R.T. QIon  Response  Conc Units Dev(Min)
 -------------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dioxane-d8 (IS)           4.336   64     17025   500.000 ng/mL    0.00
 3) 1,4-Dichlorobenzene-d4        8.483  152     50931   500.000 ng/mL    0.00

 System Monitoring Compounds
 4) 1,4-dioxane-d8                4.336   64     17025   497.438 ng/mL   0.00
   Spiked Amount    500.000   Range  15 - 115    Recovery   =   99.49%

 Target Compounds                                                     Qvalue
 2) 1,4-dioxane                   4.405   88      2370     51.422 ng/mL   98
 -------------------------------------------------------------------------------

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

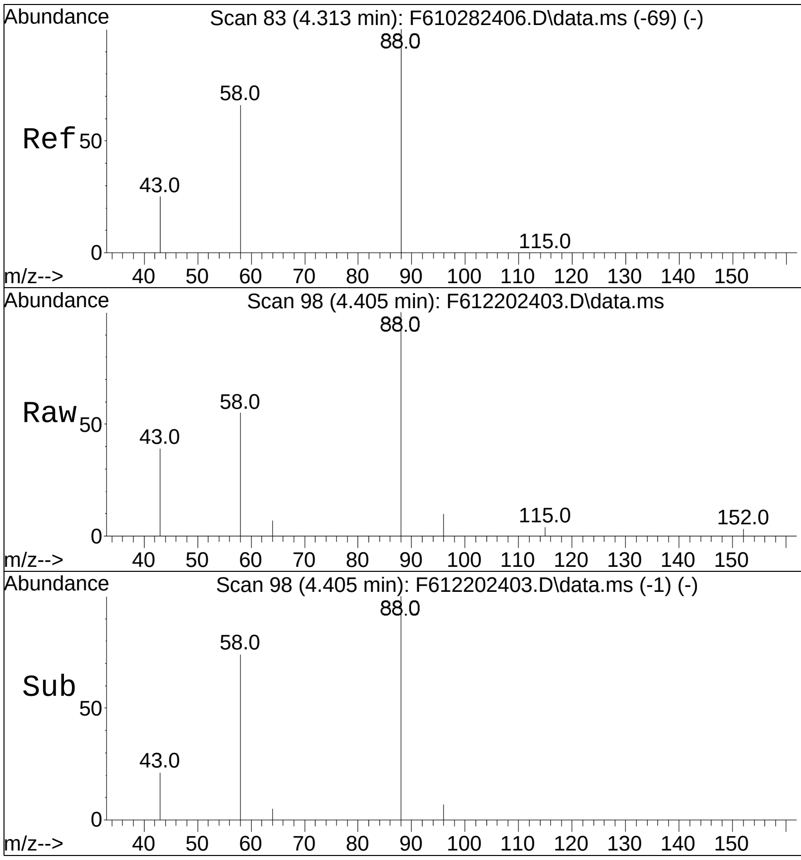
Quantitation Report    (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\
Data File : F612202403.D
Acq On    : 20 Dec 2024   3:09 pm
Operator  : GCMS6:GRS
Sample    : I612202402
Misc      : WG2012648,MSBV29
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Dec 21 11:22:10 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\14DIOX1220GCMS6.M
Quant Title  : Semivolatiles by GC/MS
QLast Update : Sat Dec 21 11:21:50 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listed

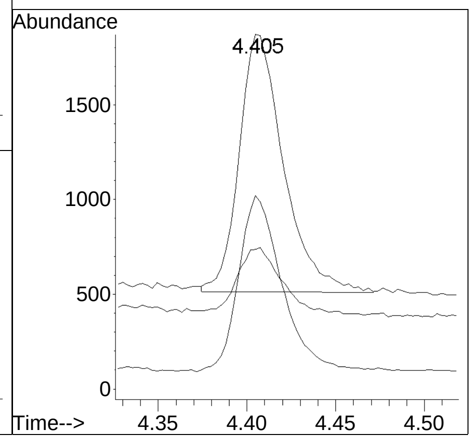





#2
1,4-dioxane
Concen: 51.42 ng/mL
RT: 4.405 min Scan# 98
Delta R.T. 0.011 min
Lab File: F612202403.D
Acq: 20 Dec 2024 3:09 pm

Tgt Ion: 88 Resp: 2370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 67.0 | 54.7 | 82.1 |
| 43 | 23.8 | 20.6 | 31.0 |



Manual Integration/Negative Proof Report

```
Data Path   : S:\Organics-NEW\DATA\GCMS6\QMethod     : 14DIOX1220GCMS6.M
Data File   : F612202403.D            Operator    : GCMS6:GRS
Date Inj'd  : 12/20/2024  3:09 pm     Instrument  : GCMS 6
Sample      : I612202402              Quant Date  : 12/21/2024 11:22 am
```

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

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\
Data File : F612202404.D
Acq On : 20 Dec 2024 3:34 pm
Operator : GCMS6:GRS
Sample : I612202403
Misc : WG2012648,MSBV30
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 21 11:22:13 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\14DIOX1220GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Sat Dec 21 11:21:50 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dioxane-d8 (IS) | 4.333 | 64 | 16701 | 500.000 | ng/mL | 0.00 |
| 3) 1,4-Dichlorobenzene-d4 | 8.483 | 152 | 51966 | 500.000 | ng/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 1,4-dioxane-d8 | 4.333 | 64 | 16701 | 478.253 | ng/mL | 0.00 |
| Spiked Amount 500.000 | Range 15 - 115 | | Recovery = 95.65% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-dioxane | 4.399 | 88 | 4572 | 101.124 | ng/mL | 98 |

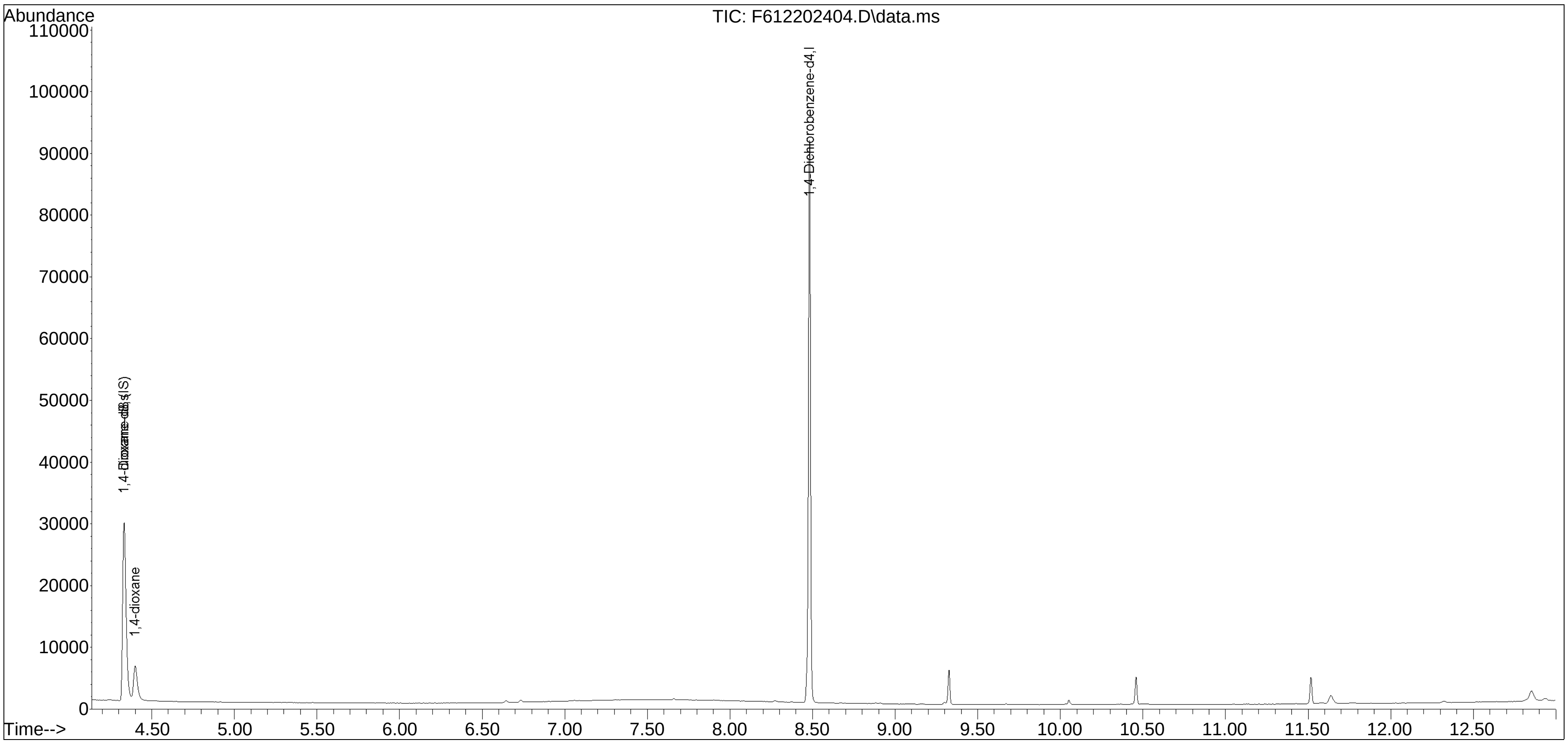
(#) = qualifier out of range (m) = manual integration (+) = signals summed

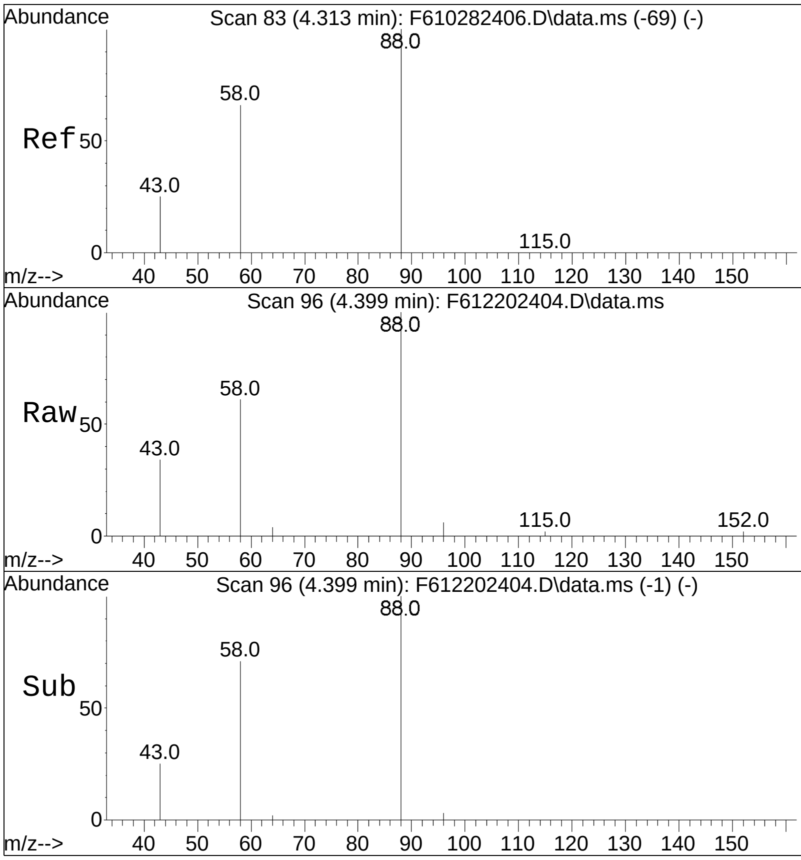
Quantitation Report    (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\
Data File : F612202404.D
Acq On    : 20 Dec 2024   3:34 pm
Operator  : GCMS6:GRS
Sample    : I612202403
Misc      : WG2012648,MSBV30
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Dec 21 11:22:13 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\14DIOX1220GCMS6.M
Quant Title  : Semivolatiles by GC/MS
QLast Update : Sat Dec 21 11:21:50 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listed

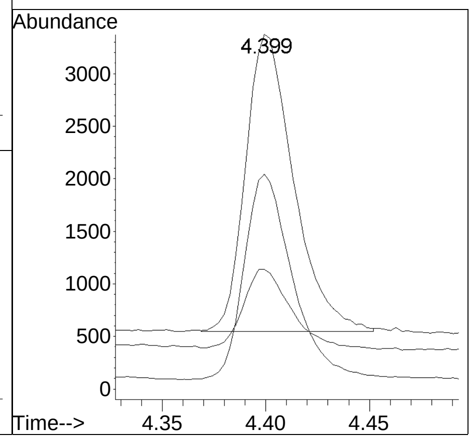





#2
1,4-dioxane
Concen: 101.12 ng/mL
RT: 4.399 min Scan# 96
Delta R.T. 0.005 min
Lab File: F612202404.D
Acq: 20 Dec 2024 3:34 pm

Tgt Ion: 88 Resp: 4572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 69.8 | 54.7 | 82.1 |
| 43 | 26.7 | 20.6 | 31.0 |




F612202404.D 14DIOX1220GCMS6.M Mon Dec 23 08:38:46 2024 Page 3

Manual Integration/Negative Proof Report

| | | | |
|---|---|---|---|
| Data Path | : S:\Organics-NEW\DATA\GCMS6\ | QMethod | : 14DIOX1220GCMS6.M |
| Data File | : F612202404.D | Operator | : GCMS6:GRS |
| Date Inj'd | : 12/20/2024 3:34 pm | Instrument | : GCMS 6 |
| Sample | : I612202403 | Quant Date | : 12/21/2024 11:22 am |

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

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\
Data File : F612202405.D
Acq On : 20 Dec 2024 3:58 pm
Operator : GCMS6:GRS
Sample : I612202404
Misc : WG2012648,MSBV31
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 21 11:22:16 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\14DIOX1220GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Sat Dec 21 11:21:50 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dioxane-d8 (IS) | 4.336 | 64 | 17848 | 500.000 | ng/mL | 0.00 |
| 3) 1,4-Dichlorobenzene-d4 | 8.483 | 152 | 51982 | 500.000 | ng/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 1,4-dioxane-d8 | 4.336 | 64 | 17848 | 510.941 | ng/mL | 0.00 |
| Spiked Amount 500.000 | Range 15 - 115 | | Recovery = 102.19% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-dioxane | 4.397 | 88 | 23052 | 477.101 | ng/mL | 100 |

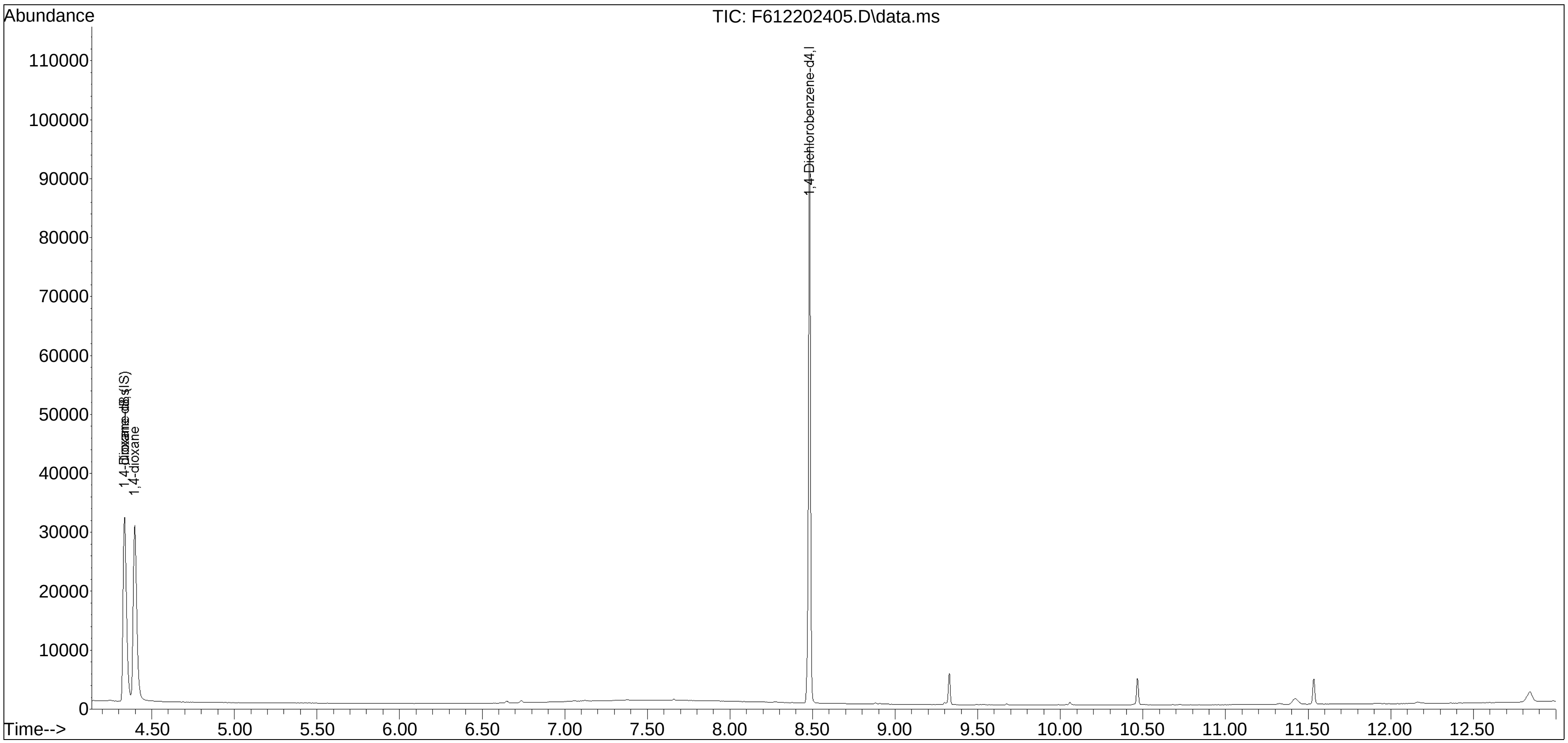
(#) = qualifier out of range (m) = manual integration (+) = signals summed

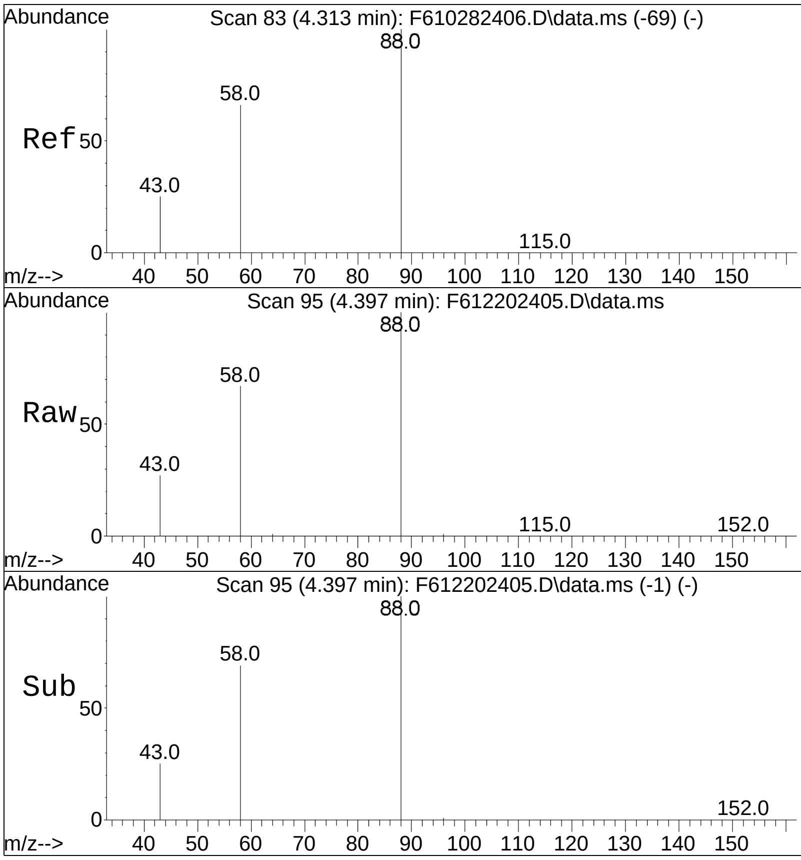
Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\
Data File : F612202405.D
Acq On : 20 Dec 2024 3:58 pm
Operator : GCMS6:GRS
Sample : I612202404
Misc : WG2012648,MSBV31
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 21 11:22:16 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\14DIOX1220GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Sat Dec 21 11:21:50 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

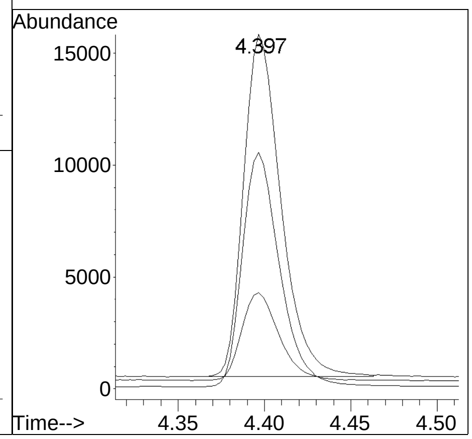





#2
1,4-dioxane
Concen: 477.10 ng/mL
RT: 4.397 min Scan# 95
Delta R.T. 0.003 min
Lab File: F612202405.D
Acq: 20 Dec 2024 3:58 pm

Tgt Ion: 88 Resp: 23052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 68.9 | 54.7 | 82.1 |
| 43 | 25.8 | 20.6 | 31.0 |




F612202405.D 14DIOX1220GCMS6.M Mon Dec 23 08:38:49 2024 Page 3

Manual Integration/Negative Proof Report

```
Data Path   : S:\Organics-NEW\DATA\GCMS6\QMethod     : 14DIOX1220GCMS6.M
Data File   : F612202405.D              Operator    : GCMS6:GRS
Date Inj'd  : 12/20/2024  3:58 pm       Instrument  : GCMS 6
Sample      : I612202404                Quant Date  : 12/21/2024 11:22 am
```

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

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\
Data File : F612202406.D
Acq On : 20 Dec 2024 4:24 pm
Operator : GCMS6:GRS
Sample : I612202405
Misc : WG2012648,MSBV91
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 21 11:22:19 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\14DIOX1220GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Sat Dec 21 11:21:50 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) 1,4-Dioxane-d8 (IS) | 4.333 | 64 | 17909 | 500.000 ng/mL | 0.00 |
| 3) 1,4-Dichlorobenzene-d4 | 8.483 | 152 | 53571 | 500.000 ng/mL | 0.00 |
| System Monitoring Compounds | | | | | |
| 4) 1,4-dioxane-d8 | 4.333 | 64 | 17909 | 497.480 ng/mL | 0.00 |
| Spiked Amount 500.000 | Range 15 - 115 | | Recovery = 99.50% | | |
| Target Compounds | | | | | Qvalue |
| 2) 1,4-dioxane | 4.394 | 88 | 48864M7 | 1007.881 ng/mL | |

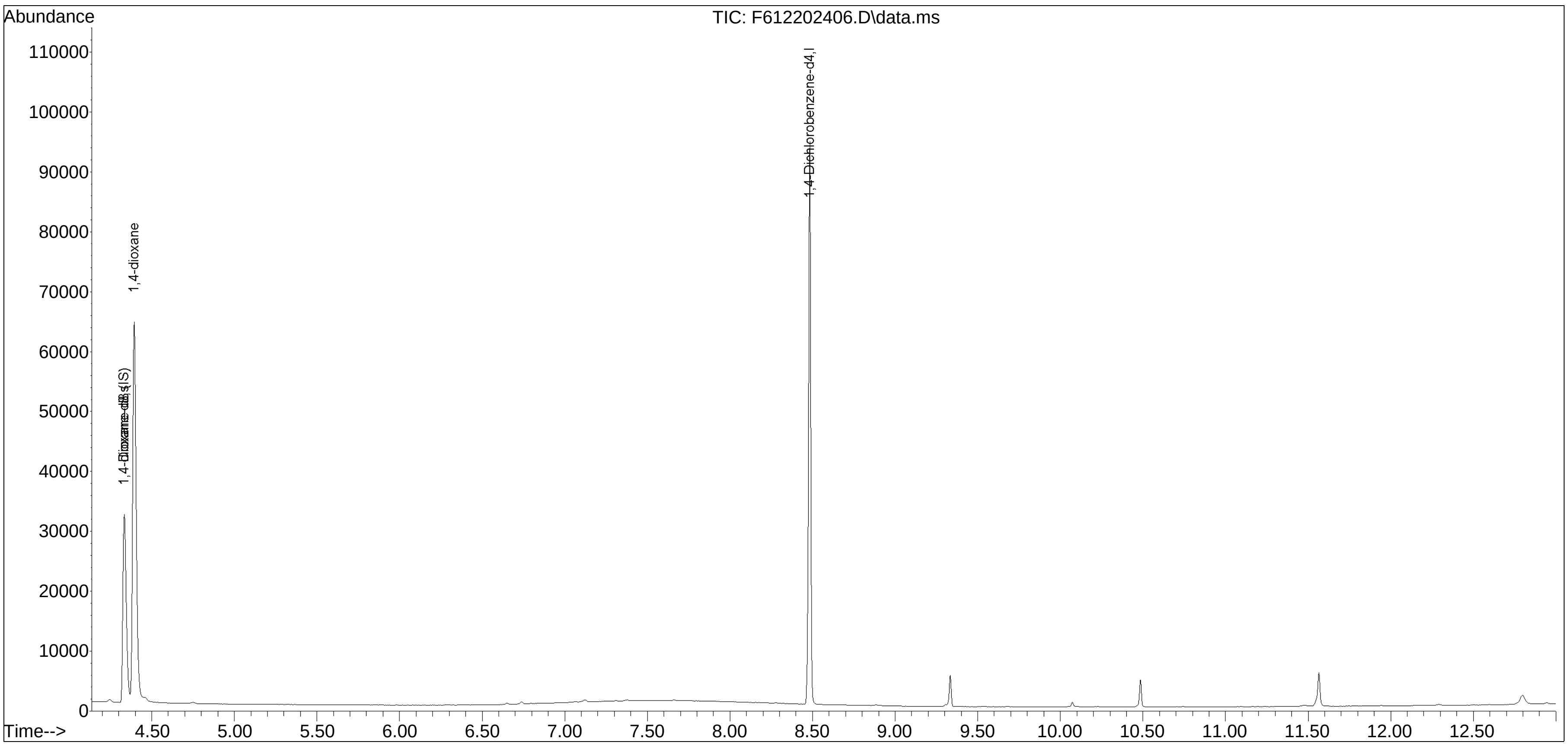
(#) = qualifier out of range (m) = manual integration (+) = signals summed

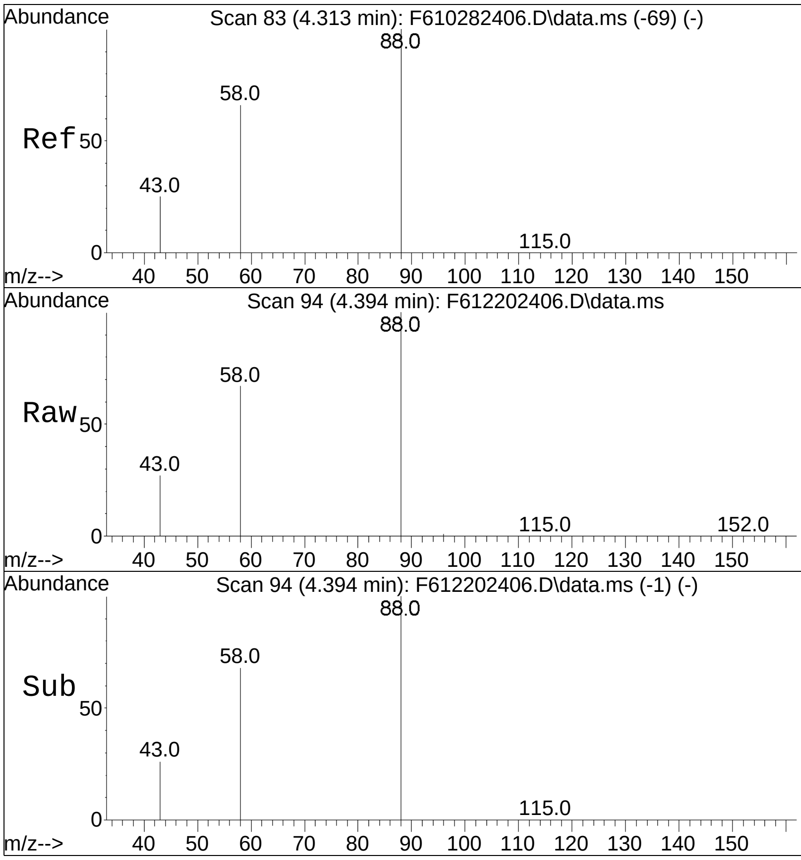
Quantitation Report    (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\
Data File : F612202406.D
Acq On    : 20 Dec 2024   4:24 pm
Operator  : GCMS6:GRS
Sample    : I612202405
Misc      : WG2012648,MSBV91
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Dec 21 11:22:19 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\14DIOX1220GCMS6.M
Quant Title  : Semivolatiles by GC/MS
QLast Update : Sat Dec 21 11:21:50 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listed

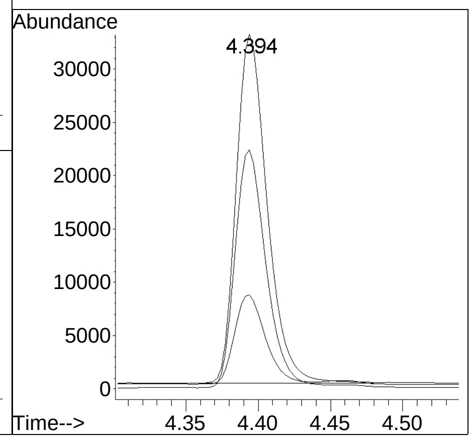





#2
1,4-dioxane
Concen: 1007.88 ng/mL M7
RT: 4.394 min Scan# 94
Delta R.T. 0.000 min
Lab File: F612202406.D
Acq: 20 Dec 2024 4:24 pm

Tgt Ion: 88 Resp: 48864

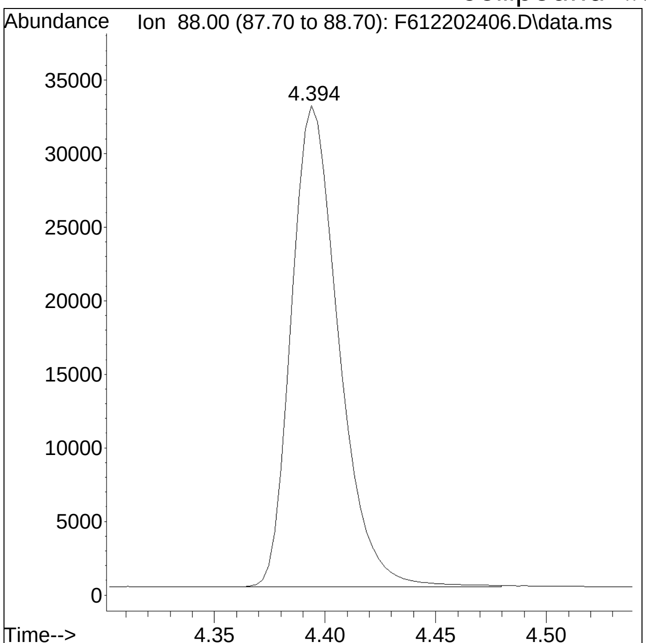
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 68.4 | 54.7 | 82.1 |
| 43 | 25.9 | 20.6 | 31.0 |

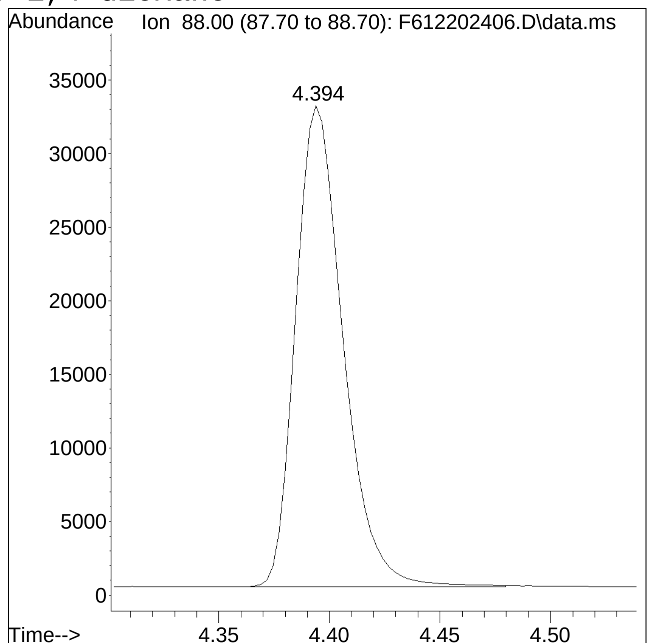


Manual Integration/Negative Proof Report

| | | | |
|---|---|---|---|
| Data Path | : S:\Organics-NEW\DATA\GCMS6\ | QMethod | : 14DIOX1220GCMS6.M |
| Data File | : F612202406.D | Operator | : GCMS6:GRS |
| Date Inj'd | : 12/20/2024 4:24 pm | Instrument | : GCMS 6 |
| Sample | : I612202405 | Quant Date | : 12/21/2024 11:22 am |

Compound #2: 1,4-dioxane




Original Peak Response = 48864 Manual Peak Response = 48864 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

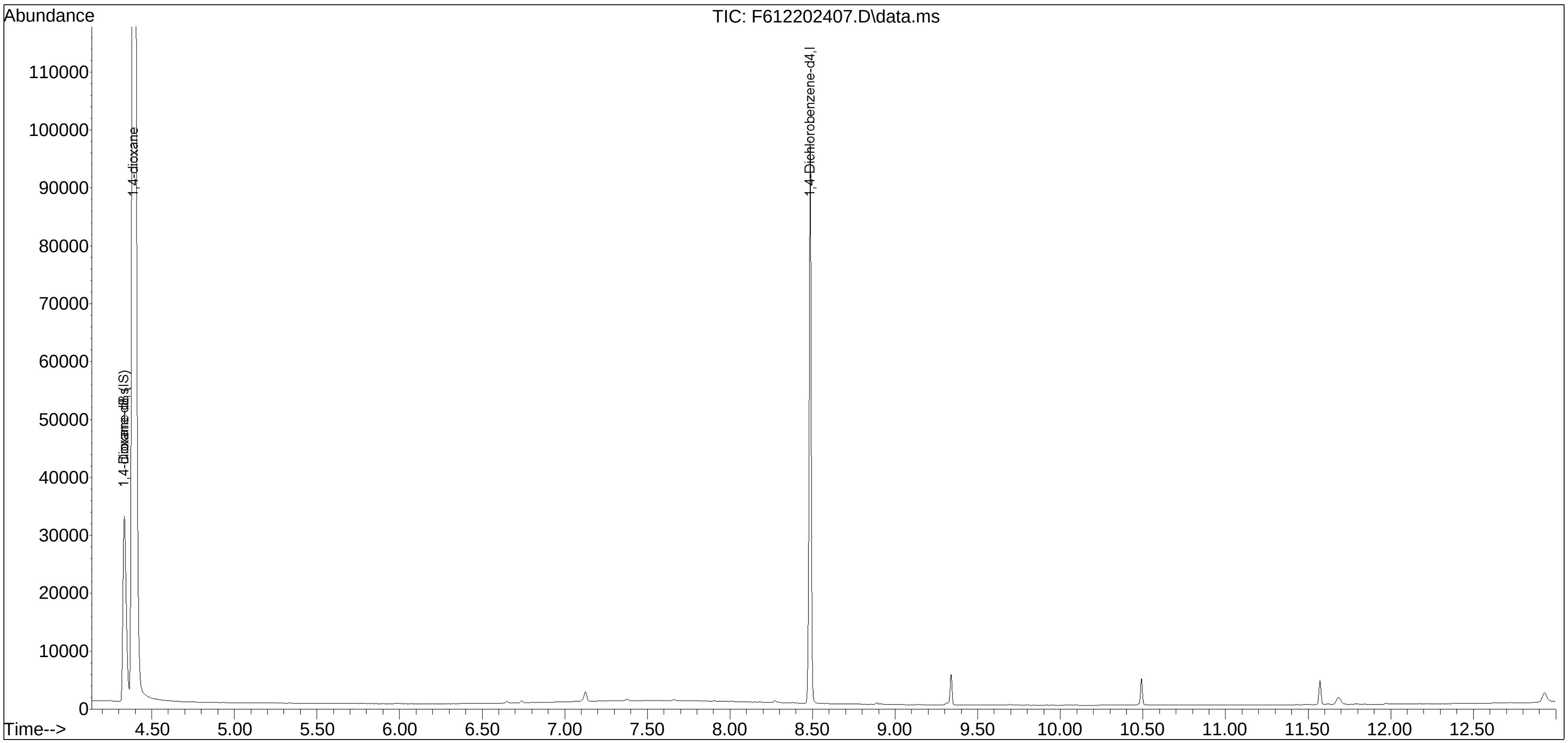
```
Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\
Data File : F612202407.D
Acq On    : 20 Dec 2024   4:49 pm
Operator  : GCMS6:GRS
Sample    : I612202406
Misc      : WG2012648,MSBV32
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Dec 21 11:22:22 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\14DIOX1220GCMS6.M
Quant Title  : Semivolatiles by GC/MS
QLast Update : Sat Dec 21 11:21:50 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listed

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dioxane-d8 (IS)          4.333   64     17713   500.000 ng/mL    0.00
 3) 1,4-Dichlorobenzene-d4       8.486  152     52590   500.000 ng/mL    0.00

 System Monitoring Compounds
 4) 1,4-dioxane-d8               4.333   64     17713   501.214 ng/mL   0.00
   Spiked Amount    500.000   Range  15 - 115    Recovery   =  100.24%

 Target Compounds                                                     Qvalue
 2) 1,4-dioxane                  4.391   88     242546   5058.170 ng/mL  100
 ---------------------------------------------------------------------------

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

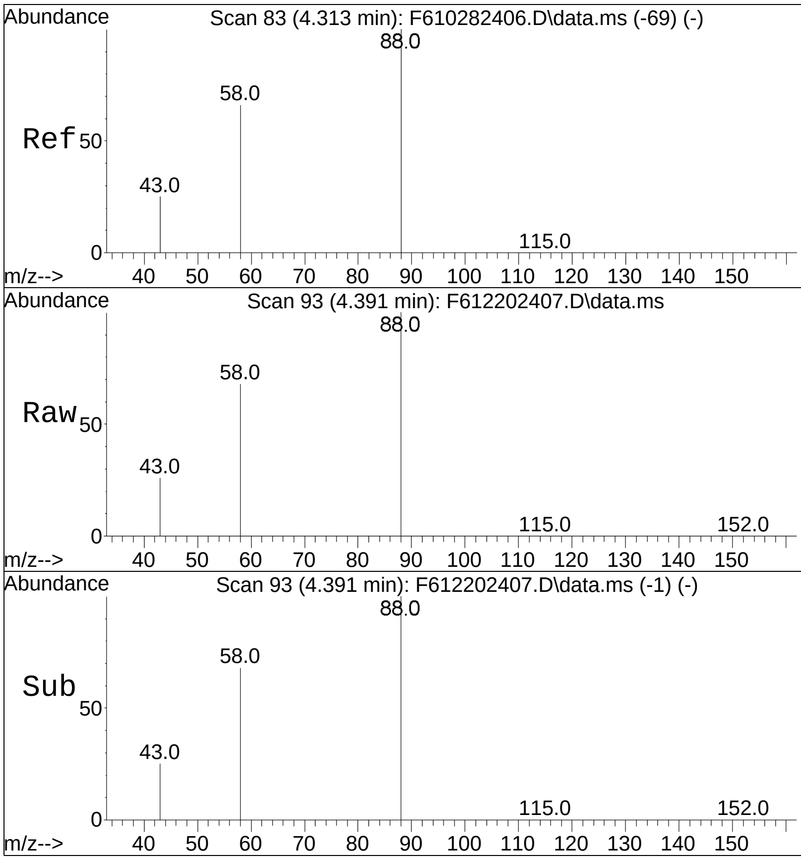
Quantitation Report    (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\
Data File : F612202407.D
Acq On    : 20 Dec 2024   4:49 pm
Operator  : GCMS6:GRS
Sample    : I612202406
Misc      : WG2012648,MSBV32
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Dec 21 11:22:22 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\14DIOX1220GCMS6.M
Quant Title  : Semivolatiles by GC/MS
QLast Update : Sat Dec 21 11:21:50 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listed

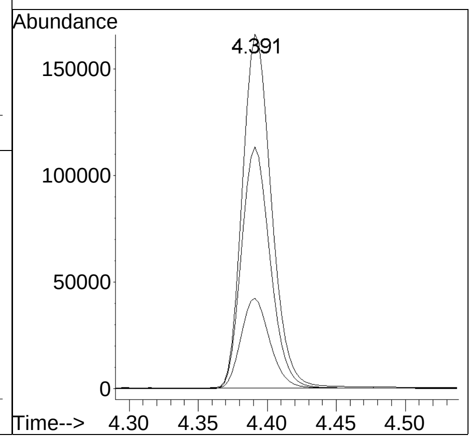





#2
1,4-dioxane
Concen: 5058.17 ng/mL
RT: 4.391 min Scan# 93
Delta R.T. -0.003 min
Lab File: F612202407.D
Acq: 20 Dec 2024 4:49 pm

Tgt Ion: 88 Resp: 242546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 68.5 | 54.7 | 82.1 |
| 43 | 25.5 | 20.6 | 31.0 |



Manual Integration/Negative Proof Report

| | | | |
|---|---|---|---|
| Data Path | : S:\Organics-NEW\DATA\GCMS6\Q | Method | : 14DIOX1220GCMS6.M |
| Data File | : F612202407.D | Operator | : GCMS6:GRS |
| Date Inj'd | : 12/20/2024 4:49 pm | Instrument | : GCMS 6 |
| Sample | : I612202406 | Quant Date | : 12/21/2024 11:22 am |

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

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\
Data File : F612202408.D
Acq On : 20 Dec 2024 5:13 pm
Operator : GCMS6:GRS
Sample : I612202407
Misc : WG2012648,MSBV27
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 21 11:22:25 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\14DIOX1220GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Sat Dec 21 11:21:50 2024
Response via : Initial Calibration

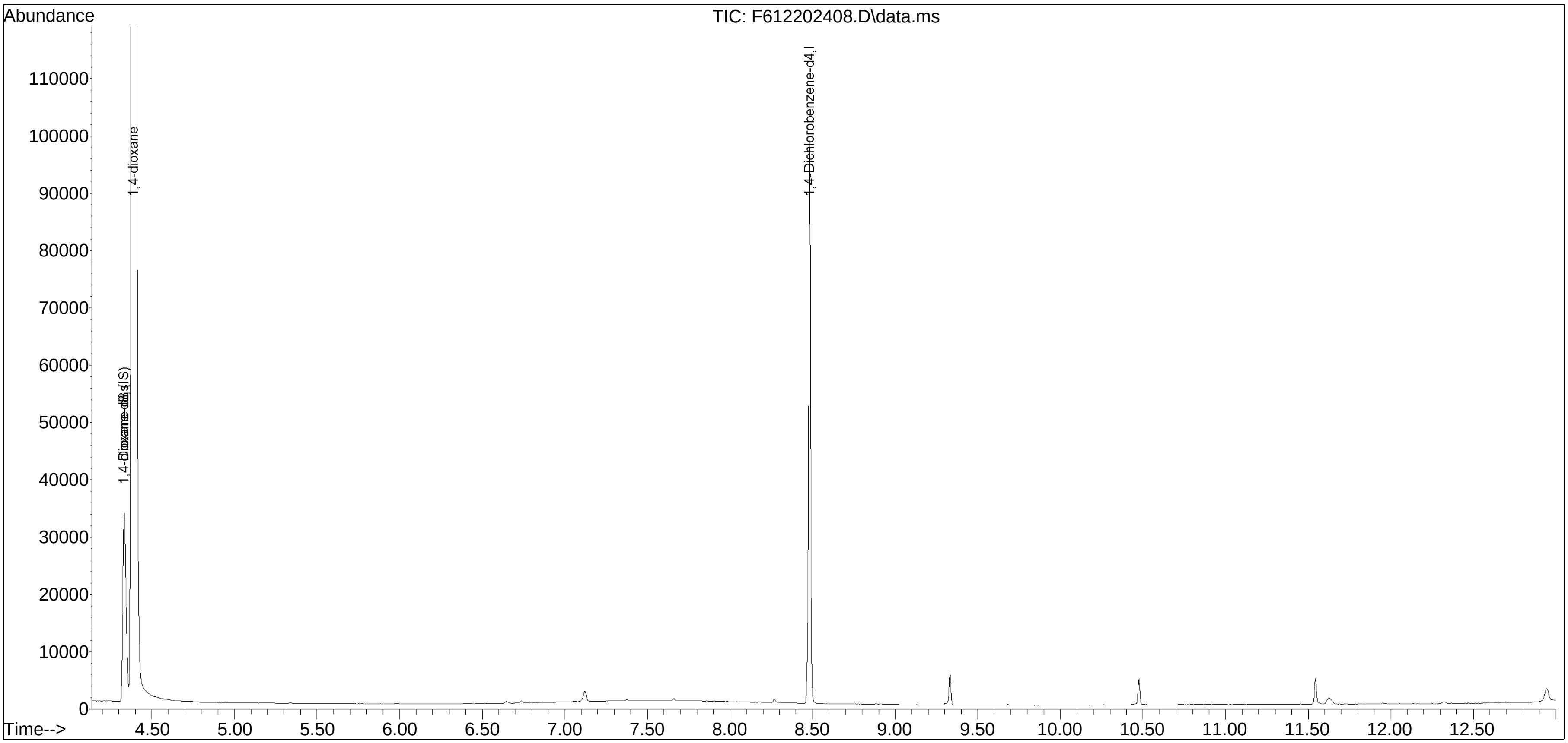
Sub List : Default - All compounds listed

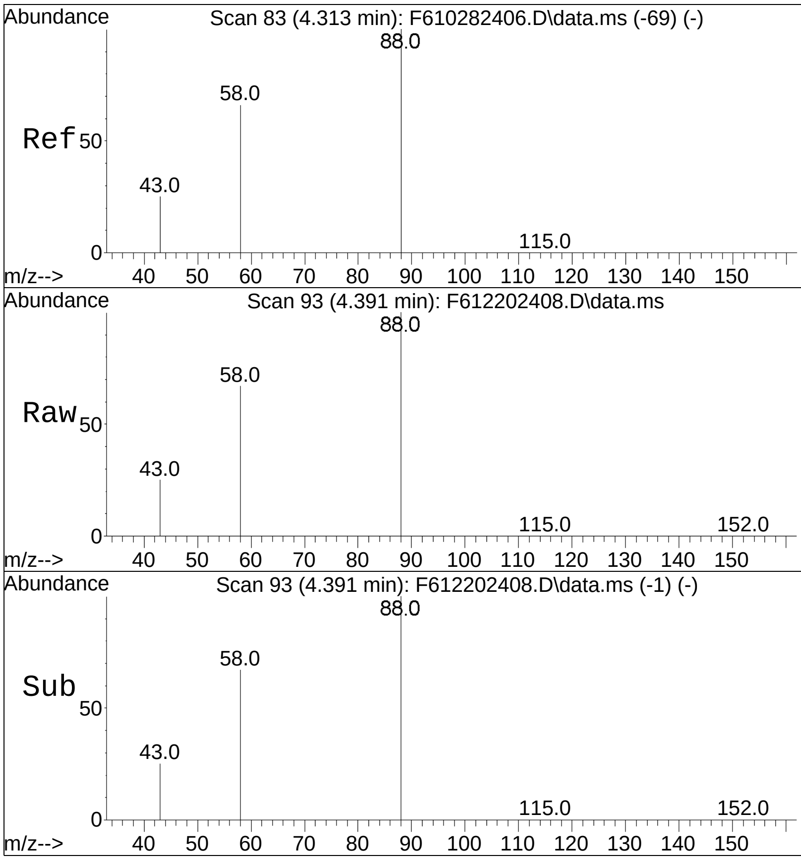
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) 1,4-Dioxane-d8 (IS) | 4.333 | 64 | 18023 | 500.000 ng/mL | 0.00 |
| 3) 1,4-Dichlorobenzene-d4 | 8.483 | 152 | 53407 | 500.000 ng/mL | 0.00 |
| System Monitoring Compounds | | | | | |
| 4) 1,4-dioxane-d8 | 4.333 | 64 | 18023 | 502.185 ng/mL | 0.00 |
| Spiked Amount 500.000 | Range 15 - 115 | | Recovery = 100.44% | | |
| Target Compounds | | | | | Qvalue |
| 2) 1,4-dioxane | 4.391 | 88 | 494650 | 10138.236 ng/mL | 99 |

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

Quantitation Report (QT Reviewed)

```
Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\
Data File : F612202408.D
Acq On    : 20 Dec 2024   5:13 pm
Operator  : GCMS6:GRS
Sample    : I612202407
Misc      : WG2012648,MSBV27
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Dec 21 11:22:25 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\14DIOX1220GCMS6.M
Quant Title  : Semivolatiles by GC/MS
QLast Update : Sat Dec 21 11:21:50 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listed
```

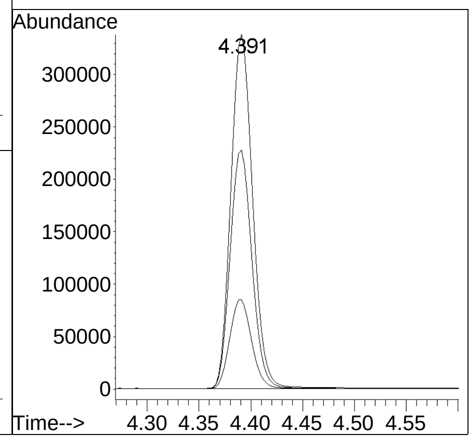





#2
1,4-dioxane
Concen: 10138.24 ng/mL
RT: 4.391 min Scan# 93
Delta R.T. -0.003 min
Lab File: F612202408.D
Acq: 20 Dec 2024 5:13 pm

Tgt Ion: 88 Resp: 494650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 68.0 | 54.7 | 82.1 |
| 43 | 25.3 | 20.6 | 31.0 |



Manual Integration/Negative Proof Report

```
Data Path   : S:\Organics-NEW\DATA\GCMS6\QMethod     : 14DIOX1220GCMS6.M
Data File   : F612202408.D             Operator    : GCMS6:GRS
Date Inj'd  : 12/20/2024  5:13 pm      Instrument  : GCMS 6
Sample      : I612202407               Quant Date  : 12/21/2024 11:22 am
```

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

Evaluate Continuing Calibration Report

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\
Data File : F612202409.D
Acq On : 20 Dec 2024 5:38 pm
Operator : GCMS6:GRS
Sample : CQ612202401
Misc : WG2012648,MSBV37
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 21 11:22:34 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\14DIOX1220GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Sat Dec 21 11:21:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 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 | 1,4-Dioxane-d8 (IS) | 1.000 | 1.000 | 0.0 | 108 | 0.02 |
| 2 | 1,4-dioxane | 1.354 | 1.283 | 5.2 | 101 | 0.02 |
| 3 I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 105 | 0.00 |
| 4 s | 1,4-dioxane-d8 | 0.336 | 0.344 | -2.4 | 112 | 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 : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\
Data File : F612202409.D
Acq On    : 20 Dec 2024   5:38 pm
Operator  : GCMS6:GRS
Sample    : CQ612202401
Misc      : WG2012648,MSBV37
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Dec 21 11:22:34 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\14DIOX1220GCMS6.M
Quant Title  : Semivolatiles by GC/MS
QLast Update : Sat Dec 21 11:21:50 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dioxane-d8 (IS) | 4.350 | 64 | 19281 | 500.000 | ng/mL | 0.02 |
| 3) 1,4-Dichlorobenzene-d4 | 8.488 | 152 | 56068 | 500.000 | ng/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 1,4-dioxane-d8 | 4.350 | 64 | 19281 | 511.739 | ng/mL | 0.02 |
| Spiked Amount 500.000 | Range 15 - 115 | | Recovery = 102.35% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-dioxane | 4.410 | 88 | 49493 | 948.213 | ng/mL | 100 |

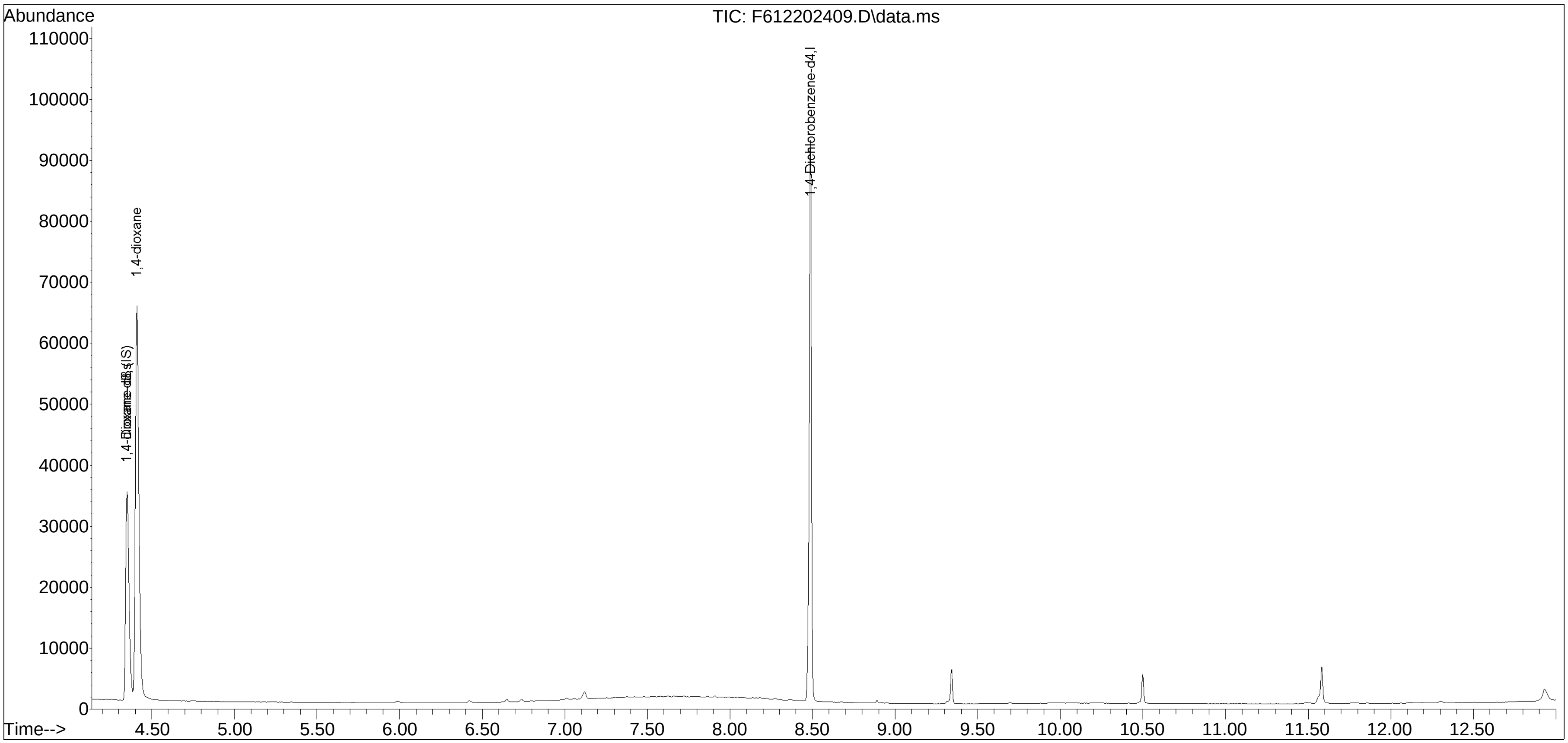
(#) = qualifier out of range (m) = manual integration (+) = signals summed

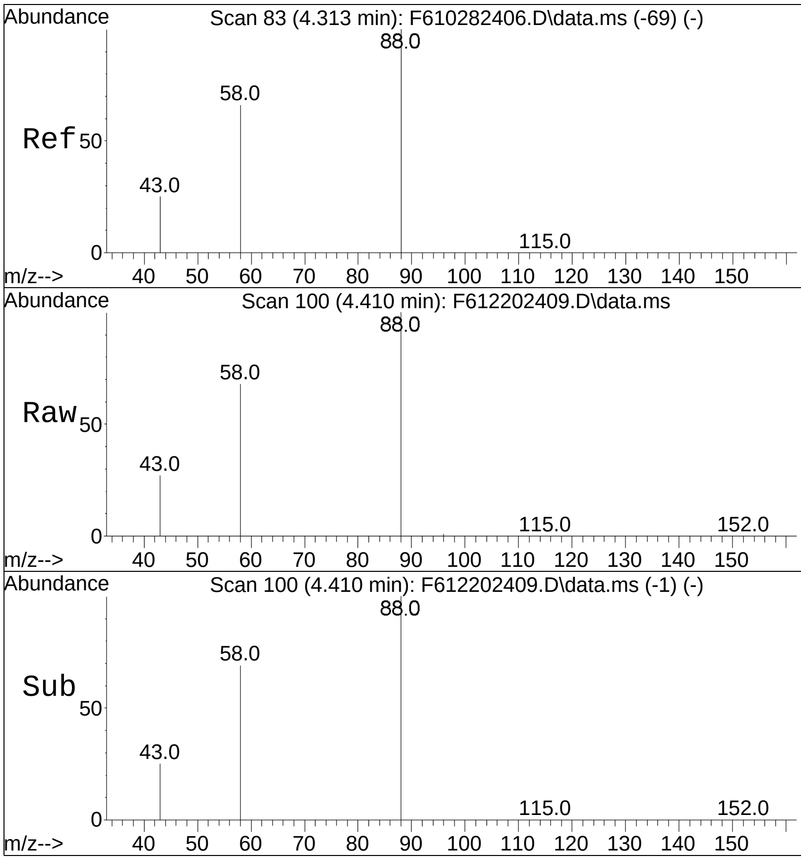
Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\
Data File : F612202409.D
Acq On : 20 Dec 2024 5:38 pm
Operator : GCMS6:GRS
Sample : CQ612202401
Misc : WG2012648,MSBV37
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 21 11:22:34 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\14DIOX1220GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Sat Dec 21 11:21:50 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

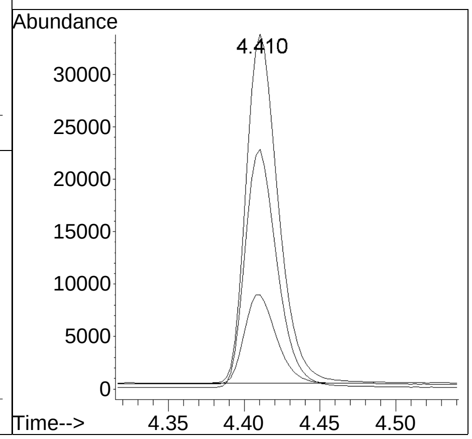





#2
1,4-dioxane
Concen: 948.21 ng/mL
RT: 4.410 min Scan# 100
Delta R.T. 0.017 min
Lab File: F612202409.D
Acq: 20 Dec 2024 5:38 pm

Tgt Ion: 88 Resp: 49493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 68.8 | 54.7 | 82.1 |
| 43 | 25.7 | 20.6 | 31.0 |



# Manual Integration/Negative Proof Report

```
Data Path   : S:\Organics-NEW\DATA\GCMS6\QMethod     : 14DIOX1220GCMS6.M
Data File   : F612202409.D              Operator    : GCMS6:GRS
Date Inj'd  : 12/20/2024  5:38 pm       Instrument  : GCMS 6
Sample      : CQ612202401               Quant Date  : 12/21/2024 11:22 am
```

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

# Continuing Calibration

# Calibration Verification Summary
# Form 7
# Semivolatiles

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : GCMS6 | Calibration Date | : 12/24/24 08:54 |
| Lab File ID | : F612242402 | Init. Calib. Date(s) | : 12/20/24 12/20/24 |
| Sample No | : WG2013199-2 | Init. Calib. Times | : 14:44 17:13 |
| Channel | : | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1,4-Dioxane-d8 (IS) | 1 | 1 | - | 0 | 20 | 101 | 0 |
| 1,4-dioxane | 1.354 | 1.405 | - | -3.8 | 20 | 104 | 0 |
| 1,4-Dichlorobenzene-d4 | 1 | 1 | - | 0 | 20 | 110 | 0 |
| 1,4-dioxane-d8 | 0.336 | 0.307 | - | 8.6 | 20 | 105 | 0 |

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\
Data File : F612242402.D
Acq On : 24 Dec 2024 8:54 am
Operator : GCMS6:GRS
Sample : WG2013199-2
Misc : WG2013199,,ICAL21808,MSBV91
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 24 09:18:23 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\14DIOX1220GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 24 09:18:19 2024
Response via : Initial Calibration

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

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dioxane-d8 (IS) | 1.000 | 1.000 | 0.0 | 101 | 0.00 |
| 2 | 1,4-dioxane | 1.354 | 1.405 | -3.8 | 104 | 0.00 |
| 3 I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 110 | 0.00 |
| 4 s | 1,4-dioxane-d8 | 0.336 | 0.307 | 8.6 | 105 | 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 : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\
Data File : F612242402.D
Acq On    : 24 Dec 2024   8:54 am
Operator  : GCMS6:GRS
Sample    : WG2013199-2
Misc      : WG2013199,,ICAL21808,MSBV91
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Dec 24 09:18:23 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\14DIOX1220GCMS6.M
Quant Title  : Semivolatiles by GC/MS
QLast Update : Tue Dec 24 09:18:19 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dioxane-d8 (IS) | 4.277 | 64 | 18069 | 500.000 | ng/mL | 0.00 |
| 3) 1,4-Dichlorobenzene-d4 | 8.449 | 152 | 58772 | 500.000 | ng/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 1,4-dioxane-d8 | 4.277 | 64 | 18069 | 457.507 | ng/mL | 0.00 |
| Spiked Amount 500.000 | Range 15 - 115 | | Recovery = 91.50% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-dioxane | 4.338 | 88 | 50788 | 1038.289 | ng/mL | 98 |

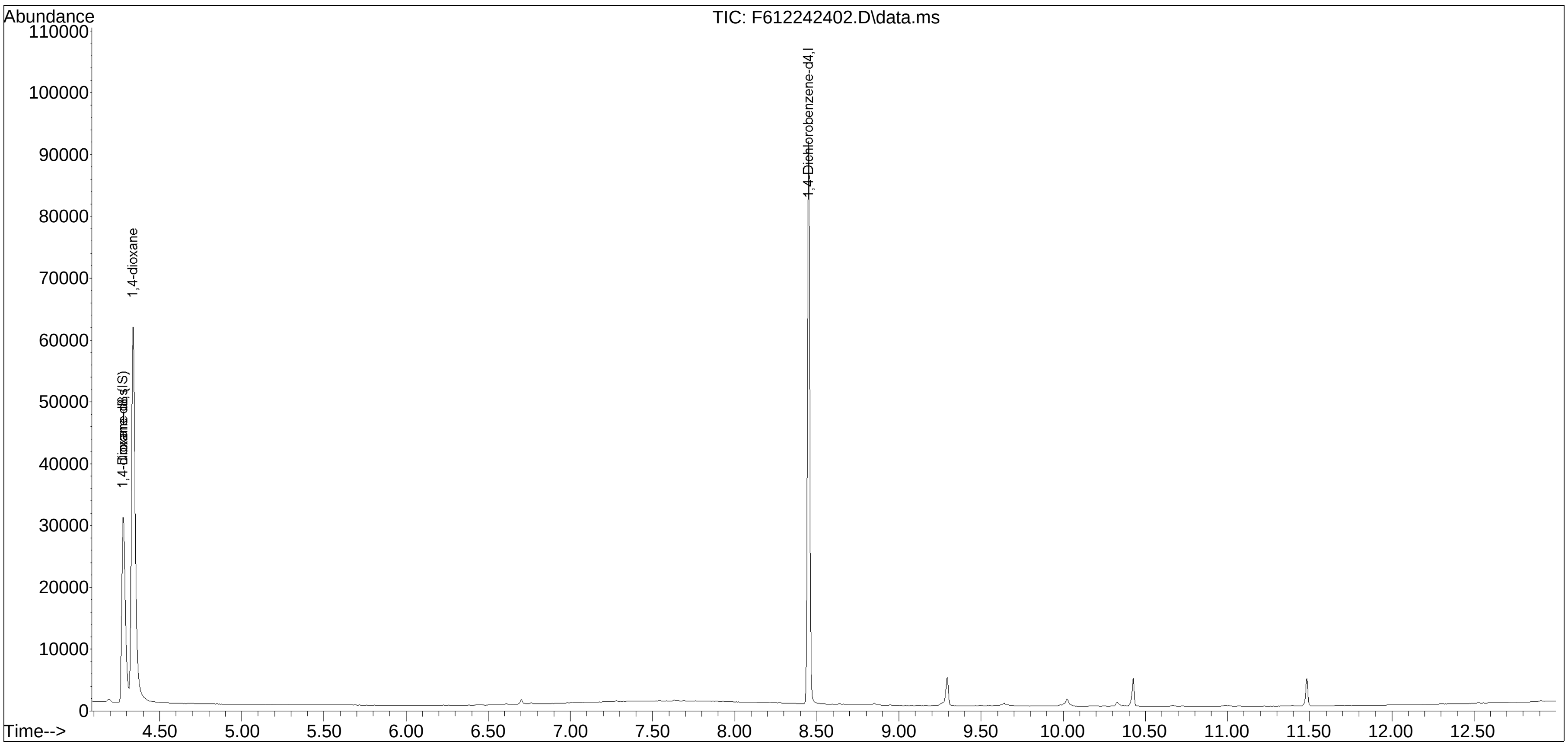
(#) = qualifier out of range (m) = manual integration (+) = signals summed

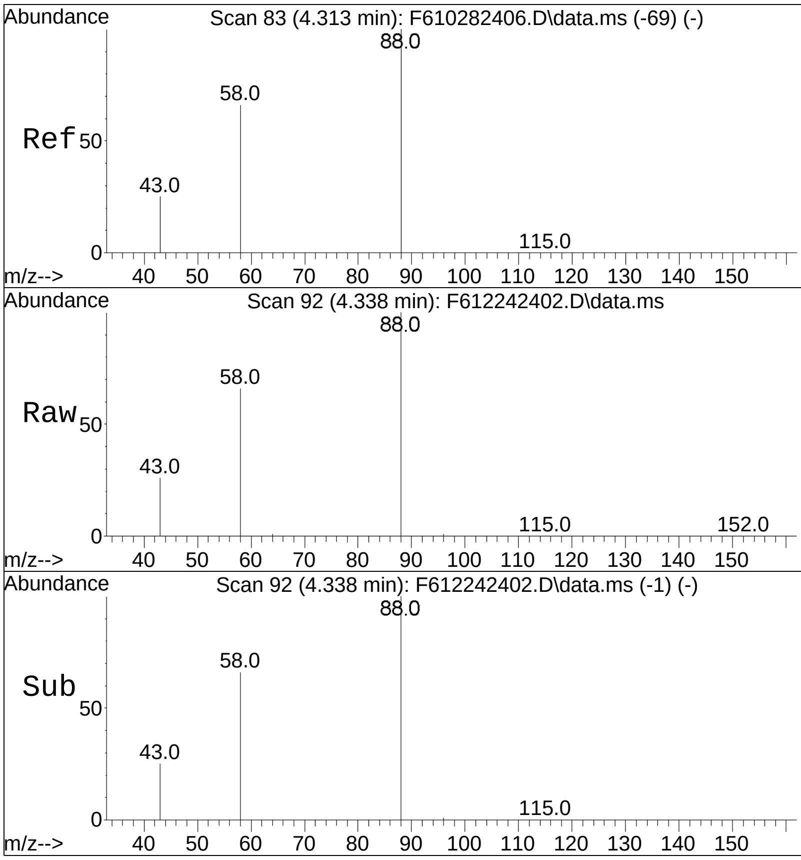
Quantitation Report    (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\
Data File : F612242402.D
Acq On    : 24 Dec 2024   8:54 am
Operator  : GCMS6:GRS
Sample    : WG2013199-2
Misc      : WG2013199,,ICAL21808,MSBV91
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Dec 24 09:18:23 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\14DIOX1220GCMS6.M
Quant Title  : Semivolatiles by GC/MS
QLast Update : Tue Dec 24 09:18:19 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listed

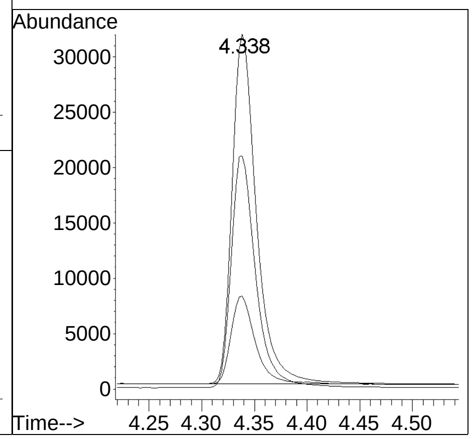





#2
1,4-dioxane
Concen: 1038.29 ng/mL
RT: 4.338 min Scan# 92
Delta R.T. 0.000 min
Lab File: F612242402.D
Acq: 24 Dec 2024 8:54 am

Tgt Ion: 88 Resp: 50788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 67.3 | 54.7 | 82.1 |
| 43 | 24.8 | 20.6 | 31.0 |



Manual Integration/Negative Proof Report

| | | | |
|---|---|---|---|
| Data Path | : S:\Organics-NEW\DATA\GCMS6\ | QMethod | : 14DIOX1220GCMS6.M |
| Data File | : F612242402.D | Operator | : GCMS6:GRS |
| Date Inj'd | : 12/24/2024 8:54 am | Instrument | : GCMS 6 |
| Sample | : WG2013199-2 | Quant Date | : 12/24/2024 9:18 am |

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

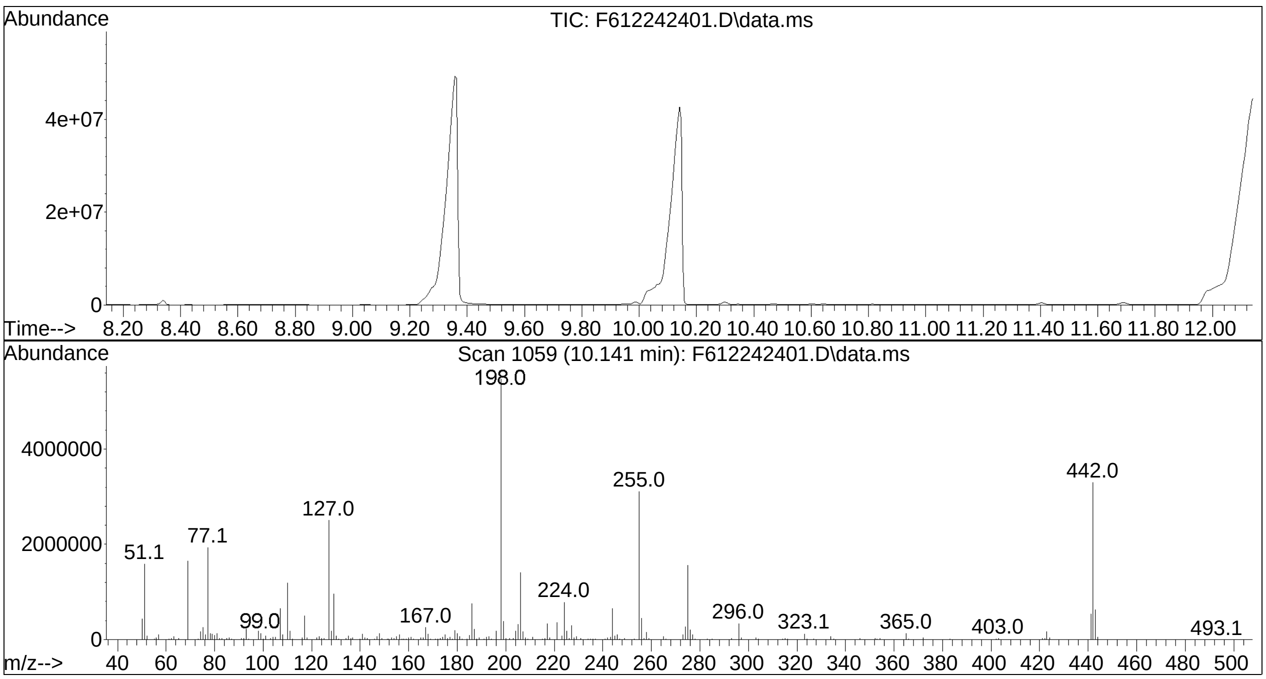
# Semivolatiles Raw QC Data

DFTPP

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\
Data File : F612242401.D
Acq On    : 24 Dec 2024   8:14 am
Operator  : GCMS6:GRS
Sample    : WG2013199-1
Misc      : WG2013199,,ICAL21808,MSBV35
ALS Vial  : 1   Sample Multiplier: 1

Integration File: RTEINT.P

Method    : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\14DIOX1220GCMS6.M
Title     : Semivolatiles by GC/MS
Last Update  : Tue Dec 24 12:56:22 2024




Spectrum Information: Scan 1059

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 29.0 | 1588736 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 8560 | PASS |
| 127 | 198 | 10 | 80 | 45.7 | 2504192 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 5476352 | PASS |
| 199 | 198 | 5 | 9 | 7.0 | 380864 | PASS |
| 275 | 198 | 10 | 60 | 28.4 | 1555456 | PASS |
| 365 | 198 | 1 | 100 | 2.3 | 127288 | PASS |
| 441 | 442 | 0.01 | 24 | 16.2 | 536256 | PASS |
| 442 | 198 | 50 | 100 | 60.3 | 3301376 | PASS |
| 443 | 442 | 15 | 24 | 18.9 | 624384 | PASS |

Quantitation Report (QT Reviewed)

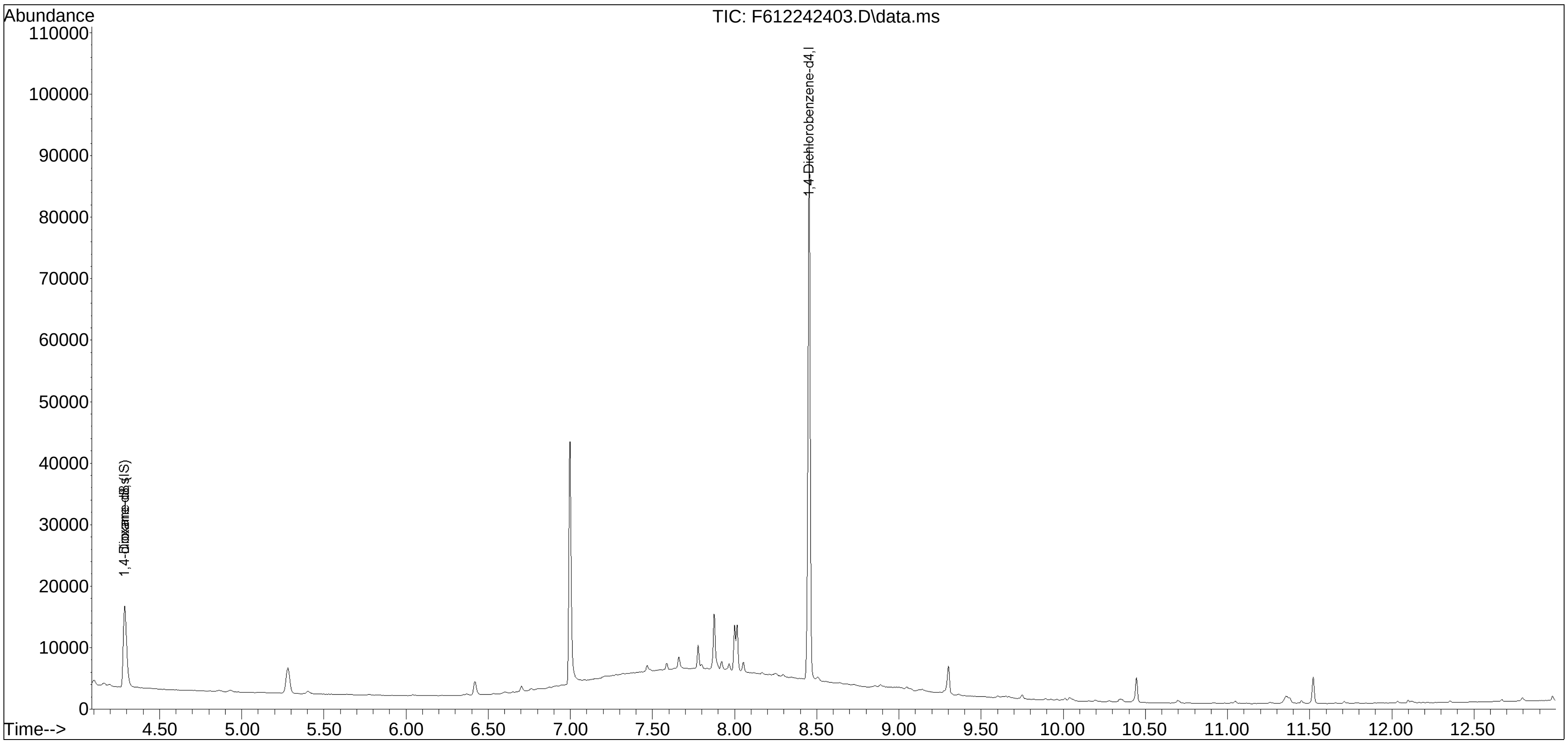
```
Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\
Data File : F612242403.D
Acq On    : 24 Dec 2024   9:32 am
Operator  : GCMS6:GRS
Sample    : wg2010978-1,32,,
Misc      : WG2013199,WG2010978,ICAL21808
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Dec 24 12:56:39 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\14DIOX1220GCMS6.M
Quant Title  : Semivolatiles by GC/MS
QLast Update : Tue Dec 24 12:56:24 2024
Response via : Initial Calibration

Sub List     : Default - All compounds listed

        Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 --------------------------------------------------------------------------
 Internal Standards
 1) 1,4-Dioxane-d8 (IS)          4.286   64      7533   500.000 ng/mL    0.00
 3) 1,4-Dichlorobenzene-d4       8.452  152     53389   500.000 ng/mL    0.00

 System Monitoring Compounds
 4) 1,4-dioxane-d8               4.286   64      7533   209.967 ng/mL   0.00
   Spiked Amount    500.000   Range  15 - 115    Recovery   =   41.99%

 Target Compounds                                                   Qvalue
 2) 1,4-dioxane                  0.000                0       N.D. d
 --------------------------------------------------------------------------

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

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\
Data File : F612242403.D
Acq On : 24 Dec 2024 9:32 am
Operator : GCMS6:GRS
Sample : wg2010978-1,32,,
Misc : WG2013199,WG2010978,ICAL21808
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 24 12:56:39 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\14DIOX1220GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 24 12:56:24 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed




14DIOX1220GCMS6.M Tue Dec 24 13:03:22 2024 Page: 2

Manual Integration/Negative Proof Report

```
Data Path   : S:\Organics-NEW\DATA\GCMS6\QMethod     : 14DIOX1220GCMS6.M
Data File   : F612242403.D               Operator    : GCMS6:GRS
Date Inj'd  : 12/24/2024  9:32 am        Instrument  : GCMS 6
Sample      : wg2010978-1,32,,           Quant Date  : 12/24/2024 12:56 pm
```

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

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\
Data File : F612242405.D
Acq On : 24 Dec 2024 10:19 am
Operator : GCMS6:GRS
Sample : wg2010978-2,32,,
Misc : WG2013199,WG2010978,ICAL21808
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 24 12:56:44 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\14DIOX1220GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 24 12:56:22 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) 1,4-Dioxane-d8 (IS) | 4.302 | 64 | 7806 | 500.000 ng/mL | 0.03 |
| 3) 1,4-Dichlorobenzene-d4 | 8.452 | 152 | 51486 | 500.000 ng/mL | 0.00 |
| System Monitoring Compounds | | | | | |
| 4) 1,4-dioxane-d8 | 4.302 | 64 | 7806 | 225.618 ng/mL | 0.02 |
| Spiked Amount 500.000 | Range 15 - 115 | | Recovery = 45.12% | | |
| Target Compounds | | | | | Qvalue |
| 2) 1,4-dioxane | 4.363 | 88 | 13360 | 632.222 ng/mL | 99 |

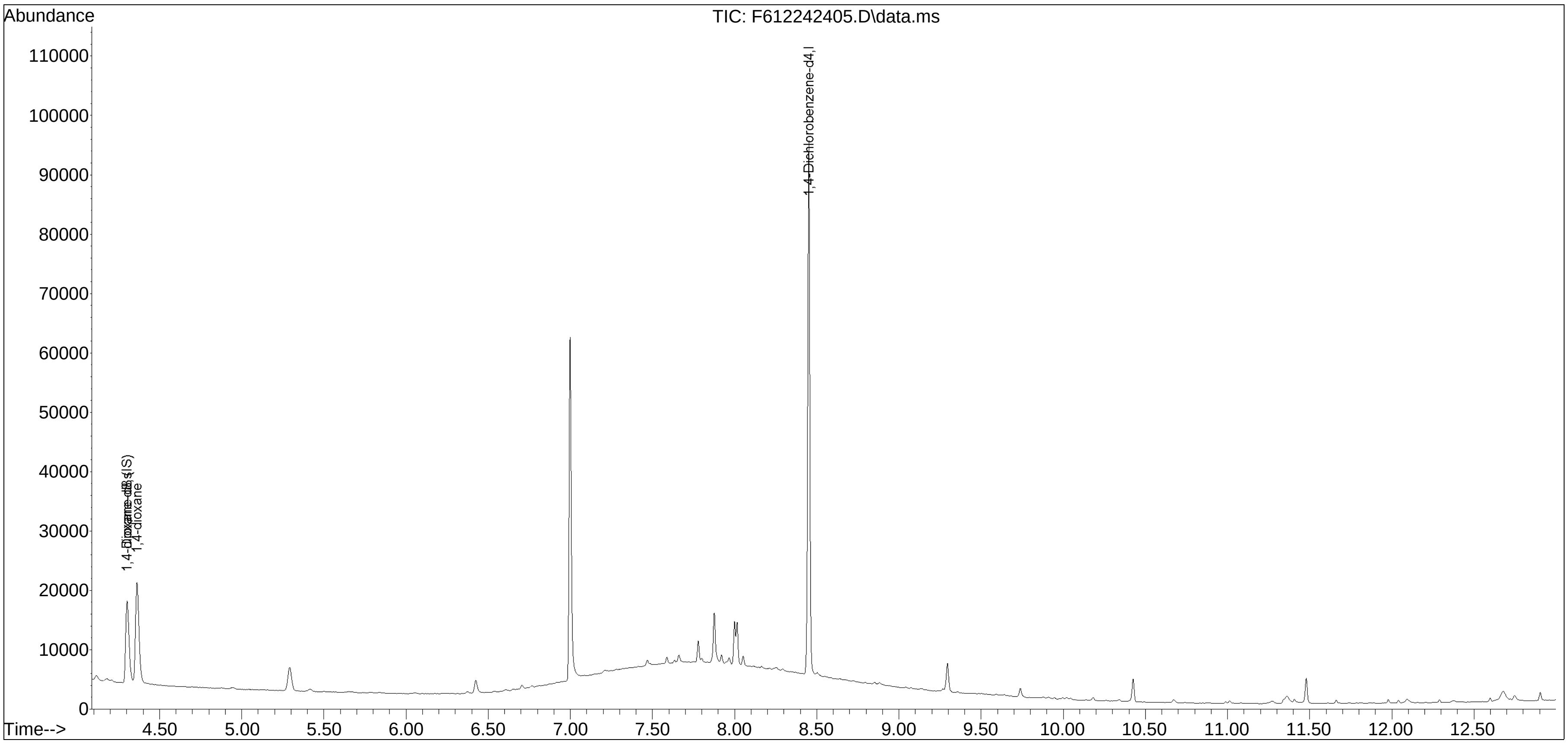
(#) = qualifier out of range (m) = manual integration (+) = signals summed

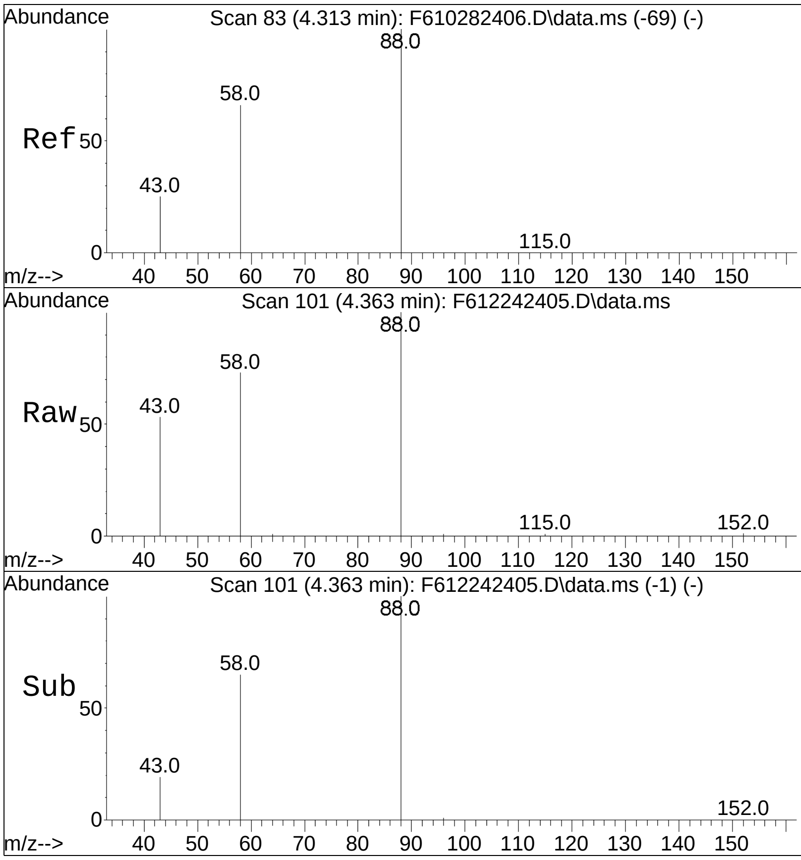
Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\
Data File : F612242405.D
Acq On : 24 Dec 2024 10:19 am
Operator : GCMS6:GRS
Sample : wg2010978-2,32,,
Misc : WG2013199,WG2010978,ICAL21808
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 24 12:56:44 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\14DIOX1220GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 24 12:56:22 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

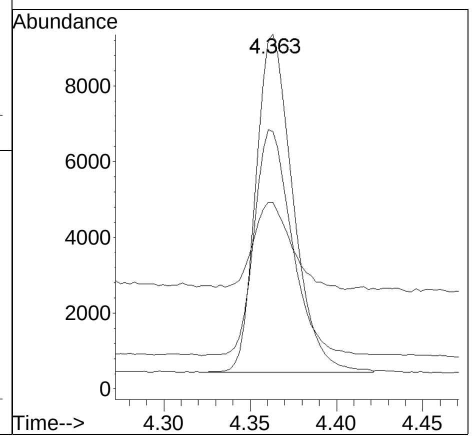





#2
1,4-dioxane
Concen:  632.22 ng/mL
RT:   4.363 min  Scan# 101
Delta R.T.  0.025 min
Lab File:   F612242405.D
Acq: 24 Dec 2024  10:19 am

Tgt Ion: 88 Resp:   13360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 67.2 | 54.7 | 82.1 |
| 43 | 26.5 | 20.6 | 31.0 |



Manual Integration/Negative Proof Report

```
Data Path   : S:\Organics-NEW\DATA\GCMS6\QMethod     : 14DIOX1220GCMS6.M
Data File   : F612242405.D            Operator    : GCMS6:GRS
Date Inj'd  : 12/24/2024 10:19 am     Instrument  : GCMS 6
Sample      : wg2010978-2,32,,        Quant Date  : 12/24/2024 12:56 pm
```

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

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\
Data File : F612242406.D
Acq On : 24 Dec 2024 10:43 am
Operator : GCMS6:GRS
Sample : wg2010978-3,32,,
Misc : WG2013199,WG2010978,ICAL21808
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 24 12:56:46 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\14DIOX1220GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 24 12:56:22 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) 1,4-Dioxane-d8 (IS) | 4.310 | 64 | 7438 | 500.000 ng/mL | 0.03 |
| 3) 1,4-Dichlorobenzene-d4 | 8.455 | 152 | 53307 | 500.000 ng/mL | 0.00 |
| System Monitoring Compounds | | | | | |
| 4) 1,4-dioxane-d8 | 4.310 | 64 | 7438 | 207.638 ng/mL | 0.03 |
| Spiked Amount 500.000 | Range 15 - 115 | | Recovery = 41.53% | | |
| Target Compounds | | | | | Qvalue |
| 2) 1,4-dioxane | 4.371 | 88 | 12945 | 642.891 ng/mL | 97 |

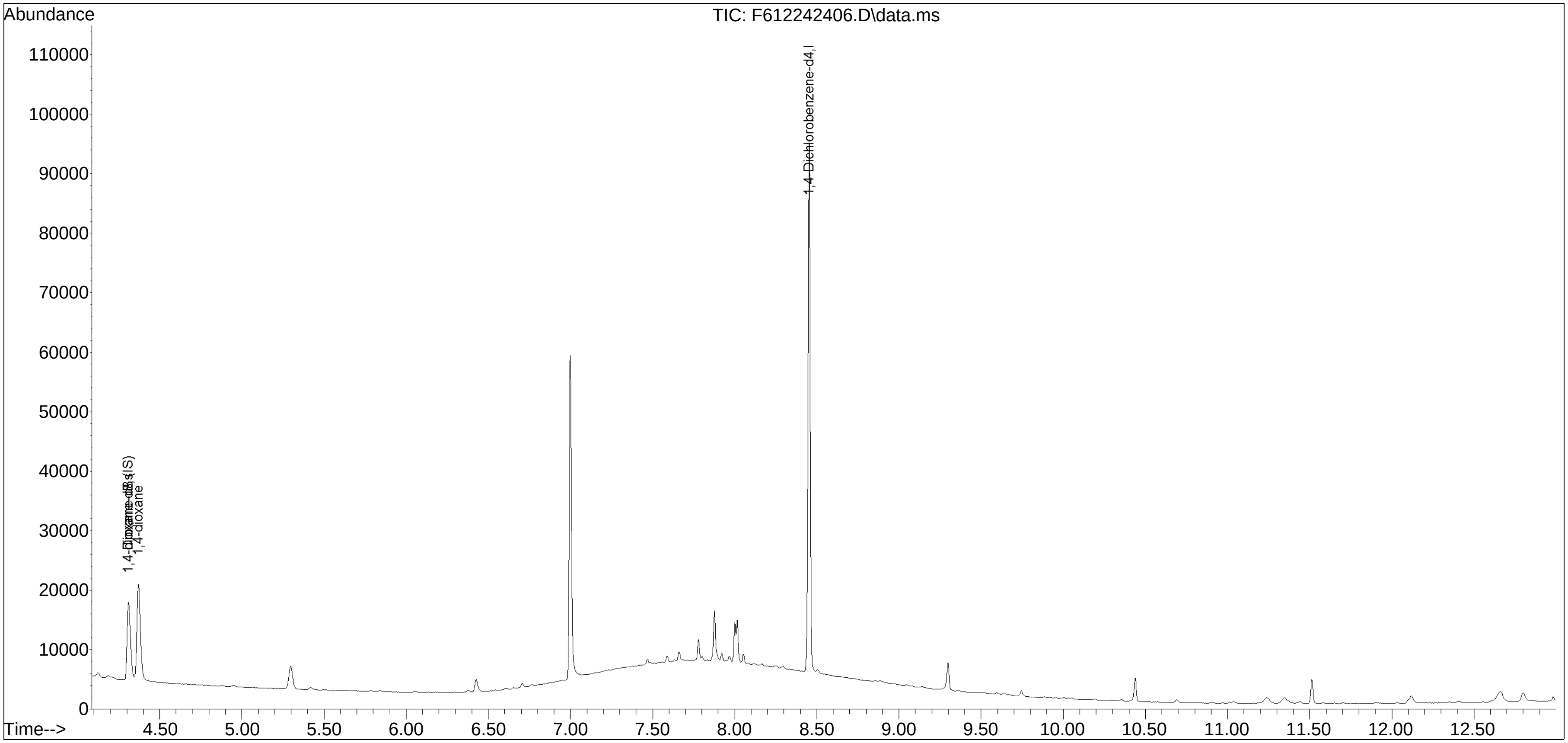
(#) = qualifier out of range (m) = manual integration (+) = signals summed

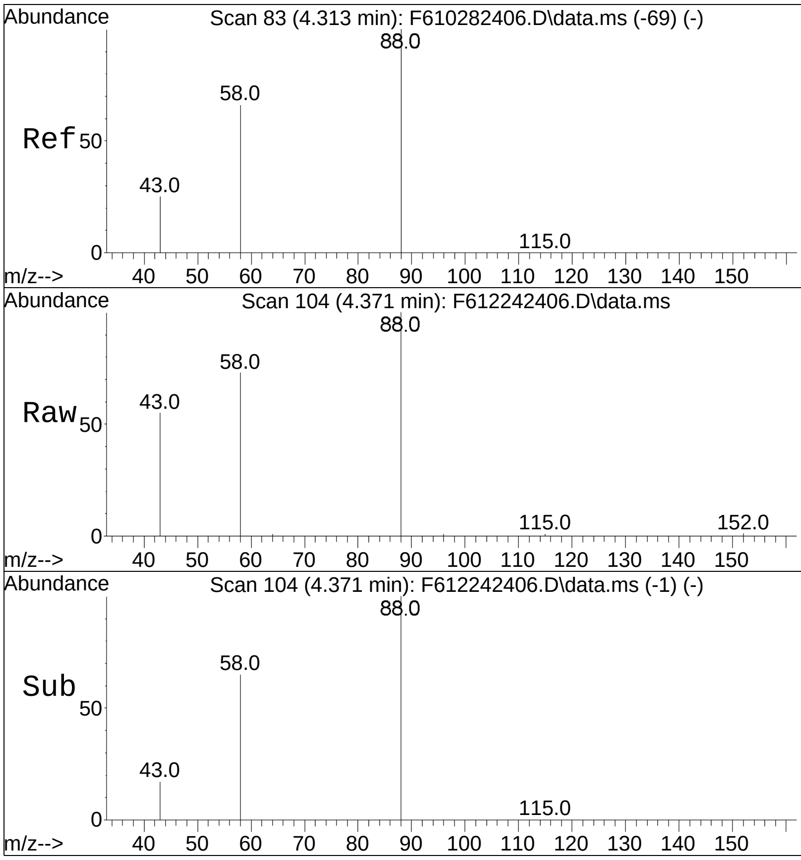
Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\
Data File : F612242406.D
Acq On : 24 Dec 2024 10:43 am
Operator : GCMS6:GRS
Sample : wg2010978-3,32,,
Misc : WG2013199,WG2010978,ICAL21808
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 24 12:56:46 2024
Quant Method : S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\14DIOX1220GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 24 12:56:22 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

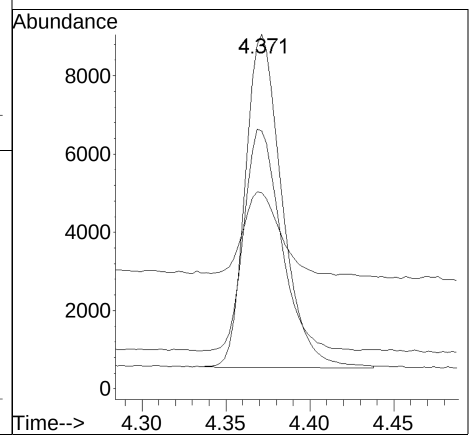





#2
1,4-dioxane
Concen:  642.89 ng/mL
RT:   4.371 min  Scan# 104
Delta R.T.  0.033 min
Lab File:   F612242406.D
Acq: 24 Dec 2024  10:43 am

Tgt Ion: 88 Resp:   12945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 66.0 | 54.7 | 82.1 |
| 43 | 23.7 | 20.6 | 31.0 |



Manual Integration/Negative Proof Report

```
Data Path   : S:\Organics-NEW\DATA\GCMS6\QMethod     : 14DIOX1220GCMS6.M
Data File   : F612242406.D              Operator    : GCMS6:GRS
Date Inj'd  : 12/24/2024 10:43 am       Instrument  : GCMS 6
Sample      : wg2010978-3,32,,          Quant Date  : 12/24/2024 12:56 pm
```

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

## Calculation of Semi Volatile Organic Compounds

Results of Water Analysis- calculation as performed in report form:

$$\text{Concentration (ug/L)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{Vi})} \times 1000$$

where:

Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.

Vf = Final volume of extract (mL)

Vi= Volume of sample extracted (mL)

DF= Dilution factor

Results of Sediment/Soil Analysis- calculation as performed in report form:

$$\text{Concentration (ug/Kg)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{W})\ (\%\text{S})}$$

where:

Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.

Vf = Final volume of extract (mL)

W= Aliquot of sample (wet), g

DF= Dilution factor

%S= Sample %solid (in decimal form)

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Dec 26 2024, 05:16 pm

Work Group: WG2013199 for Department: 32 GC/MS - Semivolatiles

Created: 24-DEC-24 Due: Operator: GRS

| Sample | Client ID | C | Product | Matrix | Stat | UA | HOLD | DUE | PR | Location |
|---|---|---|---|---|---|---|---|---|---|---|
| L2473998-21 | PER-13 | S | A2-NJ-14DIOXSIM-PPB | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.25 |
| L2473998-22 | PER-12 | S | A2-NJ-14DIOXSIM-PPB | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.25 |
| L2473998-23 | FIELD BLANK | S | A2-NJ-14DIOXSIM-PPB | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.25 |
| L2474167-01 | HOLMES-TYPE II | S | A2-1,4-DIOXANE-SIM | WATER | DONE | U | 1224 | 1224 | NC | Amber-A.25 |
| L2474183-09 | PZ-2 | C | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.25 |
| L2474183-10 | HB-1 | C | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.25 |
| L2474183-11 | HB-3 | C | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.25 |
| L2474183-12 | HB-4 | C | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.25 |
| L2474183-13 | SW-2 | C | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | 1223 | 1224 | S0 | Amber-A.25 |
| L2474183-14 | 644 PARK | S | A2-MCP14DXSIM-PPB-21 | DW | DONE | U | 1224 | 1224 | S0 | Amber-A.25 |
| L2474262-01 | MW-SD42A_12172024 | S | A2-MCP14DXSIM-PPB-21 | WATER | SEC | U | 1224 | 0102 | S0 | Amber-A.25 |
| L2474262-02 | MW-SD44_12172024 | S | A2-MCP14DXSIM-PPB-21 | WATER | SEC | U | 1224 | 0102 | S0 | Amber-A.25 |
| L2474262-03 | ASSABET-2A_12172024 | S | A2-MCP14DXSIM-PPB-21 | WATER | SEC | U | 1224 | 0102 | S0 | Amber-A.25 |
| L2474266-01 | BEW-2-12172024 | S | A2-MCP14DXSIM-PPB-21 | WATER | SEC | U | 1224 | 0102 | S0 | Amber-A.25 |
| L2474266-02 | BEW-3-12172024 | S | A2-MCP14DXSIM-PPB-21 | WATER | SEC | U | 1224 | 0102 | S0 | Amber-A.25 |
| L2474266-03 | BEW-3-12172024DUP | S | A2-MCP14DXSIM-PPB-21 | WATER | SEC | U | 1224 | 0102 | S0 | Amber-A.25 |
| L2474266-04 | BEW-4-12172024 | S | A2-MCP14DXSIM-PPB-21 | WATER | SEC | U | 1224 | 0102 | S0 | Amber-A.25 |
| L2474266-05 | GZW-10-2-12172024 | S | A2-MCP14DXSIM-PPB-21 | WATER | SEC | U | 1224 | 0102 | S0 | Amber-A.25 |
| L2474329-01 | MW-4S | S | A2-14-DIOXANESIM-PPB | WATER | DONE | U | 1223 | 0113 | S0 | Amber-A.25 |
| L2474666-07 | FB-01_20241218 | S | A2-1,4-DIOXANE-SIM | WATER | DONE | U | 1225 | 1226 | S0 | Amber-A.25 |
| L2474839-01 | MW-2R | S | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | 1226 | 1227 | S0 | Amber-A.25 |
| L2474839-02 | MW-6 | S | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | 1226 | 1227 | S0 | Amber-A.25 |
| L2474839-03 | MW-1R | S | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | 1226 | 1227 | S0 | Amber-A.25 |
| L2474839-04 | DUP-01 | S | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | 1226 | 1227 | S0 | Amber-A.25 |
| L2474839-05 | MW-A | S | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | 1226 | 1227 | S0 | Amber-A.25 |
| L2475056-01 | MW-4 | S | A2-MCP14DXSIM-PPB-21 | WATER | SEC | U | 1226 | 1227 | S0 | Amber-A.25 |
| L2475056-02 | MW-5 | S | A2-MCP14DXSIM-PPB-21 | WATER | SEC | U | 1226 | 1227 | S0 | Amber-A.25 |
| L2475083-01 | MW-1 | S | A2-MCP14DXSIM-PPB-21 | WATER | SEC | U | 1226 | 1227 | S0 | Amber-A.25 |
| L2475083-02 | MW-3 | S | A2-MCP14DXSIM-PPB-21 | WATER | SEC | U | 1226 | 1227 | S0 | Amber-A.25 |
| L2475083-03 | MW-4 | S | A2-MCP14DXSIM-PPB-21 | WATER | SEC | U | 1226 | 1227 | S0 | Amber-A.25 |
| L2475083-04 | MW-5R | S | A2-MCP14DXSIM-PPB-21 | WATER | SEC | U | 1226 | 1227 | S0 | Amber-A.25 |
| L2475083-05 | MW-7 | S | A2-MCP14DXSIM-PPB-21 | WATER | DACQ | U | 1226 | 1227 | S0 | Amber-A.25 |
| L2475083-06 | MW-2R | S | A2-MCP14DXSIM-PPB-21 | WATER | DACQ | U | 1226 | 1227 | S0 | Amber-A.25 |
| L2475083-07 | MW-8R | S | A2-MCP14DXSIM-PPB-21 | WATER | DACQ | U | 1226 | 1227 | S0 | Amber-A.25 |
| L2475083-08 | MW-9 | S | A2-MCP14DXSIM-PPB-21 | WATER | DACQ | U | 1226 | 1227 | S0 | Amber-A.25 |
| L2475083-09 | DUP-01 | S | A2-MCP14DXSIM-PPB-21 | WATER | DACQ | U | 1226 | 1227 | S0 | Amber-A.25 |
| WG2010702-4 | Limit of Quantitatio | S | A2-1,4-DIOXANE-SIM | WATER | DONE | U | | | | |
| WG2010976-1 | Laboratory Method Bl | S | A2-1,4-DIOXANE-SIM | WATER | DONE | U | | | | |
| WG2010976-2 | Laboratory Control S | S | A2-1,4-DIOXANE-SIM | WATER | DONE | U | | | | |
| WG2010976-3 | LCS Duplicate | S | A2-1,4-DIOXANE-SIM | WATER | DONE | U | | | | |
| WG2010978-1 | Laboratory Method Bl | S | A2-14-DIOXANESIM-PPB | WATER | DONE | U | | | | |
| WG2010978-2 | Laboratory Control S | S | A2-14-DIOXANESIM-PPB | WATER | DONE | U | | | | |
| WG2010978-3 | LCS Duplicate | S | A2-14-DIOXANESIM-PPB | WATER | DONE | U | | | | |
| WG2010979-1 | Laboratory Method Bl | S | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | | | | |
| WG2010979-2 | Laboratory Control S | S | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | | | | |
| WG2010979-3 | LCS Duplicate | S | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | | | | |
| WG2010981-1 | Laboratory Method Bl | S | A2-MCP14DXSIM-PPB-21 | DW | DONE | U | | | | |
| WG2010981-2 | Laboratory Control S | S | A2-MCP14DXSIM-PPB-21 | DW | DONE | U | | | | |
| WG2010981-3 | LCS Duplicate | S | A2-MCP14DXSIM-PPB-21 | DW | DONE | U | | | | |
| WG2011943-1 | Laboratory Method Bl | S | A2-1,4-DIOXANE-SIM | WATER | DONE | U | | | | |
| WG2011943-2 | Laboratory Control S | S | A2-1,4-DIOXANE-SIM | WATER | DONE | U | | | | |
| WG2011943-3 | LCS Duplicate | S | A2-1,4-DIOXANE-SIM | WATER | DONE | U | | | | |
| WG2011944-1 | Laboratory Method Bl | S | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | | | | |
| WG2011944-2 | Laboratory Control S | S | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | | | | |
| WG2011944-3 | LCS Duplicate | S | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | | | | |
| WG2011958-1 | Laboratory Method Bl | S | A2-NJ-14DIOXSIM-PPB | WATER | DONE | U | | | | |
| WG2011958-2 | Laboratory Control S | S | A2-NJ-14DIOXSIM-PPB | WATER | DONE | U | | | | |
| WG2011958-3 | LCS Duplicate | S | A2-NJ-14DIOXSIM-PPB | WATER | DONE | U | | | | |
| WG2011958-4 | Matrix Spike | S | A2-NJ-14DIOXSIM-PPB | WATER | DONE | U | | | | |
| WG2011958-5 | Duplicate Sample | S | A2-NJ-14DIOXSIM-PPB | WATER | DONE | U | | | | |
| WG2012673-1 | MS DFTPP Tune Standa | S | A2-NJ-14DIOXSIM-PPB | WATER | DACQ | U | | | | |
| WG2012673-1 | MS DFTPP Tune Standa | S | A2-1,4-DIOXANE-SIM | WATER | DACQ | U | | | | |



PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Dec 26 2024, 05:16 pm

Work Group: WG2013199 for Department: 32 GC/MS - Semivolatiles

| Sample | Client ID | C | Product | Matrix | Stat | UA | HOLD | DUE | PR | Location |
|---|---|---|---|---|---|---|---|---|---|---|
| WG2012673-2 | Continuing Calibrati | S | A2-1,4-DIOXANE-SIM | WATER | DACQ | U | | | | |
| WG2012673-2 | Continuing Calibrati | S | A2-NJ-14DIOXSIM-PPB | WATER | DACQ | U | | | | |
| WG2013199-1 | MS DFTPP Tune Standa | S | A2-14-DIOXANESIM-PPB | WATER | DONE | U | | | | |
| WG2013199-1 | MS DFTPP Tune Standa | S | A2-NJ-14DIOXSIM-PPB | WATER | DONE | U | | | | |
| WG2013199-1 | MS DFTPP Tune Standa | S | A2-MCP14DXSIM-PPB-21 | DW | DONE | U | | | | |
| WG2013199-1 | MS DFTPP Tune Standa | S | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | | | | |
| WG2013199-1 | MS DFTPP Tune Standa | S | A2-1,4-DIOXANE-SIM | WATER | DONE | U | | | | |
| WG2013199-2 | Continuing Calibrati | S | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | | | | |
| WG2013199-2 | Continuing Calibrati | S | A2-MCP14DXSIM-PPB-21 | DW | DONE | U | | | | |
| WG2013199-2 | Continuing Calibrati | S | A2-1,4-DIOXANE-SIM | WATER | DONE | U | | | | |
| WG2013199-2 | Continuing Calibrati | S | A2-NJ-14DIOXSIM-PPB | WATER | DONE | U | | | | |
| WG2013199-2 | Continuing Calibrati | S | A2-14-DIOXANESIM-PPB | WATER | DONE | U | | | | |
| WG2013199-3 | MS DFTPP Tune Standa | S | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | | | | |
| WG2013199-3 | MS DFTPP Tune Standa | S | A2-MCP14DXSIM-PPB-21 | DW | DONE | U | | | | |
| WG2013199-3 | MS DFTPP Tune Standa | S | A2-1,4-DIOXANE-SIM | WATER | DONE | U | | | | |
| WG2013199-3 | MS DFTPP Tune Standa | S | A2-NJ-14DIOXSIM-PPB | WATER | DONE | U | | | | |
| WG2013199-3 | MS DFTPP Tune Standa | S | A2-14-DIOXANESIM-PPB | WATER | DONE | U | | | | |
| WG2013199-4 | Continuing Calibrati | S | A2-1,4-DIOXANE-SIM | WATER | DONE | U | | | | |
| WG2013199-4 | Continuing Calibrati | S | A2-14-DIOXANESIM-PPB | WATER | DONE | U | | | | |
| WG2013199-4 | Continuing Calibrati | S | A2-MCP14DXSIM-PPB-21 | WATER | DONE | U | | | | |
| WG2013199-4 | Continuing Calibrati | S | A2-MCP14DXSIM-PPB-21 | DW | DONE | U | | | | |
| WG2013199-4 | Continuing Calibrati | S | A2-NJ-14DIOXSIM-PPB | WATER | DONE | U | | | | |

Comments:

| | |
|---|---|
| WG2010976-3 | WG2010976-2 |
| WG2010978-3 | WG2010978-2 |
| WG2010979-3 | WG2010979-2 |
| WG2010981-3 | WG2010981-2 |
| WG2011943-3 | WG2011943-2 |
| WG2011944-3 | WG2011944-2 |
| WG2011958-3 | WG2011958-2 |
| WG2011958-4 | L2473998-21 |
| WG2011958-5 | L2473998-22 |

# Analysis log File

Total Files Reported in Log : 9
Log Generated From Directory: S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC20A\

| No. | DATA FILE | INJ METH | SAMPLE NAME | MISC | DATE INJ'D |
|---|---|---|---|---|---|
| 1 | F612202401.D | DFTPPGCMS6.M | T612202401 | WG2012648,MSBV35 | 12/20/2024 2:05 pm |
| 2 | F612202402.D | GCMS614DX@1U | I612202401 | WG2012648,MSBV28 | 12/20/2024 2:44 pm |
| 3 | F612202403.D | GCMS614DX@1U | I612202402 | WG2012648,MSBV29 | 12/20/2024 3:09 pm |
| 4 | F612202404.D | GCMS614DX@1U | I612202403 | WG2012648,MSBV30 | 12/20/2024 3:34 pm |
| 5 | F612202405.D | GCMS614DX@1U | I612202404 | WG2012648,MSBV31 | 12/20/2024 3:58 pm |
| 6 | F612202406.D | GCMS614DX@1U | I612202405 | WG2012648,MSBV91 | 12/20/2024 4:24 pm |
| 7 | F612202407.D | GCMS614DX@1U | I612202406 | WG2012648,MSBV32 | 12/20/2024 4:49 pm |
| 8 | F612202408.D | GCMS614DX@1U | I612202407 | WG2012648,MSBV27 | 12/20/2024 5:13 pm |
| 9 | F612202409.D | GCMS614DX@1U | CQ612202401 | WG2012648,MSBV37 | 12/20/2024 5:38 pm |

Analysis log File

Total Files Reported in Log : 44
Log Generated From Directory: S:\Organics-NEW\DATA\GCMS6\2024\DEC\DEC24\

| No. | DATA FILE | INJ METH | SAMPLE NAME | MISC | DATE INJ'D |
|---|---|---|---|---|---|
| 1 | F612242401.D | DFTPPGCMS6.M | WG2013199-1 | WG2013199,,ICAL21808,MS.. | 12/24/2024 8:14 am |
| 2 | F612242402.D | GCMS614DX@1U | WG2013199-2 | WG2013199,,ICAL21808,MS.. | 12/24/2024 8:54 am |
| 3 | F612242403.D | GCMS614DX@1U | wg2010979-1,32,, | WG2013199,WG2010979,ICA.. | 12/24/2024 9:32 am |
| 4 | F612242404.D | GCMS614DX@1U | wg2010702-4,32,, | WG2013199,WG2010702,ICA.. | 12/24/2024 9:55 am |
| 5 | F612242405.D | GCMS614DX@1U | wg2010979-2,32,, | WG2013199,WG2010979,ICA.. | 12/24/2024 10:19 am |
| 6 | F612242406.D | GCMS614DX@1U | wg2010979-3,32,, | WG2013199,WG2010979,ICA.. | 12/24/2024 10:43 am |
| 7 | F612242407.D | GCMS614DX@1U | l2474167-01,32,, | WG2013199,WG2010976,ICA.. | 12/24/2024 11:08 am |
| 8 | F612242408.D | GCMS614DX@1U | l2474183-09,32,, | WG2013199,WG2010979,ICA.. | 12/24/2024 11:32 am |
| 9 | F612242409.D | GCMS614DX@1U | l2474183-10,32,, | WG2013199,WG2010979,ICA.. | 12/24/2024 11:56 am |
| 10 | F612242410.D | GCMS614DX@1U | l2474183-11,32,, | WG2013199,WG2010979,ICA.. | 12/24/2024 12:21 pm |
| 11 | F612242411.D | GCMS614DX@1U | l2474183-12,32,, | WG2013199,WG2010979,ICA.. | 12/24/2024 12:45 pm |
| 12 | F612242412.D | GCMS614DX@1U | l2474183-13,32,, | WG2013199,WG2010979,ICA.. | 12/24/2024 1:10 pm |
| 13 | F612242413.D | GCMS614DX@1U | l2474262-02,32,, | WG2013199,WG2010979,ICA.. | 12/24/2024 1:34 pm |
| 14 | F612242414.D | GCMS614DX@1U | l2474262-03,32,, | WG2013199,WG2010979,ICA.. | 12/24/2024 1:59 pm |
| 15 | F612242415.D | GCMS614DX@1U | l2474266-01,32,, | WG2013199,WG2010979,ICA.. | 12/24/2024 2:24 pm |
| 16 | F612242416.D | GCMS614DX@1U | l2474266-02,32,, | WG2013199,WG2010979,ICA.. | 12/24/2024 2:49 pm |
| 17 | F612242417.D | GCMS614DX@1U | l2474266-03,32,, | WG2013199,WG2010979,ICA.. | 12/24/2024 3:13 pm |
| 18 | F612242418.D | GCMS614DX@1U | l2474266-04,32,, | WG2013199,WG2010979,ICA.. | 12/24/2024 3:38 pm |
| 19 | F612242419.D | GCMS614DX@1U | l2474266-05,32,, | WG2013199,WG2010979,ICA.. | 12/24/2024 4:02 pm |
| 20 | F612242420.D | GCMS614DX@1U | l2474183-14,32,, | WG2013199,WG2010981,ICA.. | 12/24/2024 4:27 pm |
| 21 | F612242421.D | GCMS614DX@1U | l2474329-01,32,, | WG2013199,WG2010978,ICA.. | 12/24/2024 4:51 pm |
| 22 | F612242422.D | GCMS614DX@1U | l2474262-01,32,, | WG2013199,WG2010979,ICA.. | 12/24/2024 5:15 pm |
| 23 | F612242423.D | GCMS614DX@1U | wg2011958-1,32,, | WG2013199,WG2011958,ICA.. | 12/24/2024 5:39 pm |
| 24 | F612242424.D | GCMS614DX@1U | wg2011958-2,32,, | WG2013199,WG2011958,ICA.. | 12/24/2024 6:04 pm |
| 25 | F612242425.D | GCMS614DX@1U | wg2011958-3,32,, | WG2013199,WG2011958,ICA.. | 12/24/2024 6:28 pm |
| 26 | F612242426.D | GCMS614DX@1U | l2473998-21,32,, | WG2013199,WG2011958,ICA.. | 12/24/2024 6:52 pm |
| 27 | F612242427.D | GCMS614DX@1U | wg2011958-4,32,, | WG2013199,WG2011958,ICA.. | 12/24/2024 7:16 pm |
| 28 | F612242428.D | DFTPPGCMS6.M | WG2013199-3 | WG2013199,,ICAL21808,MS.. | 12/24/2024 7:36 pm |
| 29 | F612242429.D | GCMS614DX@1U | WG2013199-4 | WG2013199,,ICAL21808,MS.. | 12/24/2024 8:13 pm |
| 30 | F612242430.D | GCMS614DX@1U | l2473998-22,32,, | WG2013199,WG2011958,ICA.. | 12/24/2024 8:38 pm |
| 31 | F612242431.D | GCMS614DX@1U | wg2011958-5,32,, | WG2013199,WG2011958,ICA.. | 12/24/2024 9:02 pm |
| 32 | F612242432.D | GCMS614DX@1U | l2473998-23,32,, | WG2013199,WG2011958,ICA.. | 12/24/2024 9:26 pm |
| 33 | F612242433.D | GCMS614DX@1U | l2474666-07,32,, | WG2013199,WG2011943,ICA.. | 12/24/2024 9:50 pm |
| 34 | F612242434.D | GCMS614DX@1U | l2474839-01,32,, | WG2013199,WG2011944,ICA.. | 12/24/2024 10:13 pm |
| 35 | F612242435.D | GCMS614DX@1U | l2474839-02,32,, | WG2013199,WG2011944,ICA.. | 12/24/2024 10:37 pm |
| 36 | F612242436.D | GCMS614DX@1U | l2474839-03,32,, | WG2013199,WG2011944,ICA.. | 12/24/2024 11:01 pm |
| 37 | F612242437.D | GCMS614DX@1U | l2474839-04,32,, | WG2013199,WG2011944,ICA.. | 12/24/2024 11:25 pm |
| 38 | F612242438.D | GCMS614DX@1U | l2474839-05,32,, | WG2013199,WG2011944,ICA.. | 12/24/2024 11:48 pm |
| 39 | F612242439.D | GCMS614DX@1U | l2475056-01,32,, | WG2013199,WG2011944,ICA.. | 12/25/2024 12:12 am |
| 40 | F612242440.D | GCMS614DX@1U | l2475056-02,32,, | WG2013199,WG2011944,ICA.. | 12/25/2024 12:36 am |
| 41 | F612242441.D | GCMS614DX@1U | l2475083-01,32,, | WG2013199,WG2011944,ICA.. | 12/25/2024 1:00 am |
| 42 | F612242442.D | GCMS614DX@1U | l2475083-02,32,, | WG2013199,WG2011944,ICA.. | 12/25/2024 1:23 am |
| 43 | F612242443.D | GCMS614DX@1U | l2475083-03,32,, | WG2013199,WG2011944,ICA.. | 12/25/2024 1:47 am |
| 44 | F612242444.D | GCMS614DX@1U | l2475083-04,32,, | WG2013199,WG2011944,ICA.. | 12/25/2024 2:11 am |

# ORGANIC ELN REPORT

**Workgroup:** WG2010978

**Prep Method:** EPA 3510C
**Solvent Type:** DCM **Lot #:** EJ475-US
**Surrogate Type:** 1,4-DIOXANE **Lot #:** MSBV63
**Spike Type:** 1,4-DIOXANE **Lot #:** MSBV20
**Spike Verify by:** GRA
**Lims Spikelot:** 14DIOXANE

**Additional Reagents/Stds**

| | |
|---|---|
| Glass Wool | 29022999 |
| Na2SO4 | ON121724C |

**Conc.Method:** S-EVAP
**Solvent Type:** DCM
**Lot #:** EJ475-US

**Additional Reagents/Stds**

***Cleanup 1***

**Cleanup Method 1:**
**Cleanup Method 2:**
**Solvent Type:** **Lot #:**

**Additional Reagents/Stds**

| Sample/ Type | Extraction: Extract Date | Analyst | Sample Vol **ml** | Ph | Surr Amt **ml** | Spike Amt **ml** | Concentration: Conc Date | Analyst | Final Vol **ml** | Conc Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| L2474329-01 SAMP | 12/18/24 20:00 | Katelyn Charron | 270 | 7 | .25 | | 12/18/24 21:15 | Katelyn Charron | 2.5 | SEVAP 1A |
| WG2010978-1 BLANK | 12/18/24 20:00 | Katelyn Charron | 250 | 7 | .25 | | 12/18/24 21:15 | Katelyn Charron | 2.5 | SEVAP 1A |
| | **SHARING QCS WITH WG2010976, WG2010979, WG2010981** | | | | | | | | | |
| WG2010978-2 LCS | 12/18/24 20:00 | Katelyn Charron | 250 | 7 | .25 | .25 | 12/18/24 21:15 | Katelyn Charron | 2.5 | SEVAP 1A |
| WG2010978-3 LCSD | 12/18/24 20:00 | Katelyn Charron | 250 | 7 | .25 | .25 | 12/18/24 21:15 | Katelyn Charron | 2.5 | SEVAP 1A |



Reported: 26-DEC-24 05:16 PM

# Metals

# Inorganic Data
# ( ICP Analysis)

# Form 1
# METALS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-01 | Date Collected | : 12/16/24 11:00 |
| Client ID | : MW-4S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/19/24 22:35 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 19,200.7 | Analyst | : JMF |
| Lab File ID | : WG2011242.pdf | Instrument ID | : TRACE6 |
| Sample Amount | : 50ml | %Solids | : N/A |
| Digestion Method | : EPA 3005A | Date Digested | : 12/18/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 7429-90-5 | Aluminum, Total | ND | 0.100 | 0.0318 | U |
| 7440-36-0 | Antimony, Total | ND | 0.0500 | 0.0071 | U |
| 7440-38-2 | Arsenic, Total | ND | 0.0050 | 0.0019 | U |
| 7440-39-3 | Barium, Total | 0.0437 | 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 | 11.0 | 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 | 3.20 | 0.100 | 0.0153 | |
| 7439-96-5 | Manganese, Total | 0.0072 | 0.0100 | 0.0016 | J |
| 7440-02-0 | Nickel, Total | ND | 0.0250 | 0.0024 | U |
| 7440-09-7 | Potassium, Total | 1.69 | 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 | 58.0 | 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 1
# METALS

| | | | | |
|---|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : | L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : | 2232.0006Y005 |
| Lab ID | : L2474329-02 | Date Collected | : | 12/16/24 11:50 |
| Client ID | : MW-4D2 | Date Received | : | 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : | 12/19/24 23:28 |
| Sample Matrix | : WATER | Dilution Factor | : | 1 |
| Analytical Method | : 19,200.7 | Analyst | : | JMF |
| Lab File ID | : WG2011242.pdf | Instrument ID | : | TRACE6 |
| Sample Amount | : 50ml | %Solids | : | N/A |
| Digestion Method | : EPA 3005A | Date Digested | : | 12/18/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 7429-90-5 | Aluminum, Total | ND | 0.100 | 0.0318 | U |
| 7440-36-0 | Antimony, Total | ND | 0.0500 | 0.0071 | U |
| 7440-38-2 | Arsenic, Total | ND | 0.0050 | 0.0019 | U |
| 7440-39-3 | Barium, Total | 0.0155 | 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 | 12.2 | 0.100 | 0.0350 | |
| 7440-47-3 | Chromium, Total | 0.0034 | 0.0100 | 0.0021 | J |
| 7440-48-4 | Cobalt, Total | ND | 0.0200 | 0.0017 | U |
| 7440-50-8 | Copper, Total | ND | 0.0100 | 0.0022 | U |
| 7439-89-6 | Iron, Total | 0.0204 | 0.0500 | 0.0090 | J |
| 7439-92-1 | Lead, Total | ND | 0.0100 | 0.0027 | U |
| 7439-95-4 | Magnesium, Total | 5.75 | 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 | 0.993 | 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 | 9.12 | 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 1
# METALS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-03 | Date Collected | : 12/16/24 08:45 |
| Client ID | : MW-12S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/19/24 23:35 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 19,200.7 | Analyst | : JMF |
| Lab File ID | : WG2011242.pdf | Instrument ID | : TRACE6 |
| Sample Amount | : 50ml | %Solids | : N/A |
| Digestion Method | : EPA 3005A | Date Digested | : 12/18/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 7429-90-5 | Aluminum, Total | 0.0556 | 0.100 | 0.0318 | J |
| 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 | 0.0732 | 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 | 8.45 | 0.100 | 0.0350 | |
| 7440-47-3 | Chromium, Total | 0.0115 | 0.0100 | 0.0021 | |
| 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 | 0.188 | 0.0500 | 0.0090 | |
| 7439-92-1 | Lead, Total | ND | 0.0100 | 0.0027 | U |
| 7439-95-4 | Magnesium, Total | 2.75 | 0.100 | 0.0153 | |
| 7439-96-5 | Manganese, Total | 0.0356 | 0.0100 | 0.0016 | |
| 7440-02-0 | Nickel, Total | 0.0105 | 0.0250 | 0.0024 | J |
| 7440-09-7 | Potassium, Total | 1.40 | 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 | 70.0 | 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 | 0.0098 | 0.0050 | 0.0021 | |

# Form 1
# METALS

| | | | | |
|---|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : | L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : | 2232.0006Y005 |
| Lab ID | : L2474329-04 | Date Collected | : | 12/16/24 09:33 |
| Client ID | : MW-12D | Date Received | : | 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : | 12/19/24 23:41 |
| Sample Matrix | : WATER | Dilution Factor | : | 1 |
| Analytical Method | : 19,200.7 | Analyst | : | JMF |
| Lab File ID | : WG2011242.pdf | Instrument ID | : | TRACE6 |
| Sample Amount | : 50ml | %Solids | : | N/A |
| Digestion Method | : EPA 3005A | Date Digested | : | 12/18/24 |

| CAS NO. | Parameter | Results (mg/l) | RL (mg/l) | MDL (mg/l) | Qualifier |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum, Total | 0.0521 | 0.100 | 0.0318 | J |
| 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 | 0.0368 | 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 | 13.5 | 0.100 | 0.0350 | |
| 7440-47-3 | Chromium, Total | 0.0044 | 0.0100 | 0.0021 | J |
| 7440-48-4 | Cobalt, Total | ND | 0.0200 | 0.0017 | U |
| 7440-50-8 | Copper, Total | ND | 0.0100 | 0.0022 | U |
| 7439-89-6 | Iron, Total | 0.0474 | 0.0500 | 0.0090 | J |
| 7439-92-1 | Lead, Total | ND | 0.0100 | 0.0027 | U |
| 7439-95-4 | Magnesium, Total | 5.44 | 0.100 | 0.0153 | |
| 7439-96-5 | Manganese, Total | ND | 0.0100 | 0.0016 | U |
| 7440-02-0 | Nickel, Total | 0.0043 | 0.0250 | 0.0024 | J |
| 7440-09-7 | Potassium, Total | 1.11 | 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 | 14.5 | 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 | 0.0099 | 0.0050 | 0.0021 | |

# Form 1
# METALS

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : | **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : | **L2474329** |
| **Project Name** | : | **CORAM MATERIALS** | **Project Number** | : | **2232.0006Y005** |
| **Lab ID** | : | **L2474329-05** | **Date Collected** | : | **12/16/24 12:00** |
| **Client ID** | : | **EB-12162024** | **Date Received** | : | **12/17/24** |
| **Sample Location** | : | **416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | : | **12/19/24 23:48** |
| **Sample Matrix** | : | **Equipment Blank** | **Dilution Factor** | : | **1** |
| **Analytical Method** | : | **19,200.7** | **Analyst** | : | **JMF** |
| **Lab File ID** | : | **WG2011242.pdf** | **Instrument ID** | : | **TRACE6** |
| **Sample Amount** | : | **50ml** | **%Solids** | : | **N/A** |
| **Digestion Method** | : | **EPA 3005A** | **Date Digested** | : | **12/18/24** |

| CAS NO. | Parameter | Results (mg/l) | RL (mg/l) | MDL (mg/l) | Qualifier |
|---|---|---|---|---|---|
| 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 | ND | 0.0050 | 0.0021 | U |

# Form 1
# METALS

| | | | | | |
|---|---|---|---|---|---|
| Client | : | Roux Env. Eng. & Geology, DPC | Lab Number | : | L2474329 |
| Project Name | : | CORAM MATERIALS | Project Number | : | 2232.0006Y005 |
| Lab ID | : | WG2010915-1 | Date Collected | : | NA |
| Client ID | : | WG2010915-1BLANK | Date Received | : | NA |
| Sample Location | : | | Date Analyzed | : | 12/19/24 20:03 |
| Sample Matrix | : | WATER | Dilution Factor | : | 1 |
| Analytical Method | : | 19,200.7 | Analyst | : | JMF |
| Lab File ID | : | WG2011242.pdf | Instrument ID | : | TRACE6 |
| Sample Amount | : | 50ml | %Solids | : | N/A |
| Digestion Method | : | EPA 3005A | Date Digested | : | 12/18/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 7429-90-5 | Aluminum, Total | ND | 0.100 | 0.0318 | U |
| 7440-36-0 | Antimony, Total | ND | 0.0500 | 0.0071 | U |
| 7440-38-2 | 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 | 0.0487 | 0.100 | 0.0350 | J |
| 7440-47-3 | Chromium, Total | ND | 0.0100 | 0.0021 | U |
| 7440-48-4 | Cobalt, Total | ND | 0.0200 | 0.0017 | U |
| 7440-50-8 | Copper, Total | ND | 0.0100 | 0.0022 | U |
| 7439-89-6 | Iron, Total | ND | 0.0500 | 0.0090 | U |
| 7439-92-1 | Lead, Total | ND | 0.0100 | 0.0027 | U |
| 7439-95-4 | Magnesium, Total | ND | 0.100 | 0.0153 | U |
| 7439-96-5 | Manganese, Total | ND | 0.0100 | 0.0016 | U |
| 7440-02-0 | Nickel, Total | ND | 0.0250 | 0.0024 | U |
| 7440-09-7 | Potassium, Total | ND | 2.50 | 0.237 | U |
| 7782-49-2 | Selenium, Total | ND | 0.0100 | 0.0035 | U |
| 7440-22-4 | Silver, Total | ND | 0.0070 | 0.0028 | U |
| 7440-23-5 | Sodium, Total | ND | 2.00 | 0.120 | U |
| 7440-28-0 | Thallium, Total | ND | 0.0200 | 0.0025 | U |
| 7440-62-2 | Vanadium, Total | ND | 0.0100 | 0.0020 | U |
| 7440-66-6 | Zinc, Total | ND | 0.0050 | 0.0021 | U |

# Form 1
# METALS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2010915-4 | Date Collected | : 12/17/24 14:30 |
| Client ID | : WG2010915-4 DUP | Date Received | : 12/17/24 |
| Sample Location | : | Date Analyzed | : 12/19/24 20:49 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 19,200.7 | Analyst | : JMF |
| Lab File ID | : WG2011242.pdf | Instrument ID | : TRACE6 |
| Sample Amount | : 50ml | %Solids | : N/A |
| Digestion Method | : EPA 3005A | Date Digested | : 12/18/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 7440-62-2 | Vanadium, Total | 0.0099 | 0.0100 | 0.002 | J |

# Form 1
# METALS

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: WG2010915-8** | **Date Collected** | **: 12/17/24 14:30** |
| **Client ID** | **: WG2010915-8 DUP** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **:** | **Date Analyzed** | **: 12/19/24 22:55** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 19,200.7** | **Analyst** | **: JMF** |
| **Lab File ID** | **: WG2011242.pdf** | **Instrument ID** | **: TRACE6** |
| **Sample Amount** | **: 50ml** | **%Solids** | **: N/A** |
| **Digestion Method** | **: EPA 3005A** | **Date Digested** | **: 12/18/24** |

| CAS NO. | Parameter | Results (mg/l) | RL (mg/l) | MDL (mg/l) | Qualifier |
|---|---|---|---|---|---|
| 7440-62-2 | Vanadium, Total | ND | 0.0100 | 0.002 | U |

# Form 1
# METALS

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Lab ID** | : L2474329-01 | **Date Collected** | : 12/16/24 11:00 |
| **Client ID** | : MW-4S | **Date Received** | : 12/17/24 |
| **Sample Location** | : 416 MILLER PLACE-YAPHANK ROAD | **Date Analyzed** | : 12/23/24 14:14 |
| **Sample Matrix** | : WATER | **Dilution Factor** | : 1 |
| **Analytical Method** | : 19,200.7 | **Analyst** | : DMC |
| **Lab File ID** | : WG2012543.pdf | **Instrument ID** | : TRACE8 |
| **Sample Amount** | : 50ml | **%Solids** | : N/A |
| **Digestion Method** | : EPA 3005A | **Date Digested** | : 12/22/24 |

| CAS NO. | Parameter | mg/l Results | mg/l RL | mg/l MDL | Qualifier |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum, Dissolved | ND | 0.100 | 0.0318 | U |
| 7440-36-0 | Antimony, Dissolved | ND | 0.0500 | 0.0071 | U |
| 7440-38-2 | Arsenic, Dissolved | ND | 0.0050 | 0.0019 | U |
| 7440-39-3 | Barium, Dissolved | 0.0455 | 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 | 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 | 3.28 | 0.100 | 0.0153 | |
| 7439-96-5 | Manganese, Dissolved | 0.0076 | 0.0100 | 0.0016 | J |
| 7440-02-0 | Nickel, Dissolved | ND | 0.0250 | 0.0024 | U |
| 7440-09-7 | Potassium, Dissolved | 1.77 | 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 | 58.0 | 2.00 | 0.120 | |
| 7440-28-0 | Thallium, Dissolved | ND | 0.0200 | 0.0025 | U |
| 7440-62-2 | Vanadium, Dissolved | ND | 0.0100 | 0.0020 | U |
| 7440-66-6 | Zinc, Dissolved | ND | 0.0050 | 0.0021 | U |

# Form 1
# METALS

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Lab ID** | : L2474329-02 | **Date Collected** | : 12/16/24 11:50 |
| **Client ID** | : MW-4D2 | **Date Received** | : 12/17/24 |
| **Sample Location** | : 416 MILLER PLACE-YAPHANK ROAD | **Date Analyzed** | : 12/23/24 14:18 |
| **Sample Matrix** | : WATER | **Dilution Factor** | : 1 |
| **Analytical Method** | : 19,200.7 | **Analyst** | : DMC |
| **Lab File ID** | : WG2012543.pdf | **Instrument ID** | : TRACE8 |
| **Sample Amount** | : 50ml | **%Solids** | : N/A |
| **Digestion Method** | : EPA 3005A | **Date Digested** | : 12/22/24 |

| CAS NO. | Parameter | Results (mg/l) | RL (mg/l) | MDL (mg/l) | Qualifier |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum, Dissolved | ND | 0.100 | 0.0318 | U |
| 7440-36-0 | Antimony, Dissolved | ND | 0.0500 | 0.0071 | U |
| 7440-38-2 | Arsenic, Dissolved | ND | 0.0050 | 0.0019 | U |
| 7440-39-3 | Barium, Dissolved | 0.0158 | 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 | 11.9 | 0.100 | 0.0350 | |
| 7440-47-3 | Chromium, Dissolved | 0.0027 | 0.0100 | 0.0021 | J |
| 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 | 5.96 | 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 | 1.03 | 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 | 9.14 | 2.00 | 0.120 | |
| 7440-28-0 | Thallium, Dissolved | ND | 0.0200 | 0.0025 | U |
| 7440-62-2 | Vanadium, Dissolved | ND | 0.0100 | 0.0020 | U |
| 7440-66-6 | Zinc, Dissolved | ND | 0.0050 | 0.0021 | U |

# Form 1
# METALS

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Lab ID** | : L2474329-03 | **Date Collected** | : 12/16/24 08:45 |
| **Client ID** | : MW-12S | **Date Received** | : 12/17/24 |
| **Sample Location** | : 416 MILLER PLACE-YAPHANK ROAD | **Date Analyzed** | : 12/23/24 14:23 |
| **Sample Matrix** | : WATER | **Dilution Factor** | : 1 |
| **Analytical Method** | : 19,200.7 | **Analyst** | : DMC |
| **Lab File ID** | : WG2012543.pdf | **Instrument ID** | : TRACE8 |
| **Sample Amount** | : 50ml | **%Solids** | : N/A |
| **Digestion Method** | : EPA 3005A | **Date Digested** | : 12/22/24 |

| CAS NO. | Parameter | Results (mg/l) | RL (mg/l) | MDL (mg/l) | Qualifier |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum, Dissolved | ND | 0.100 | 0.0318 | U |
| 7440-36-0 | Antimony, Dissolved | ND | 0.0500 | 0.0071 | U |
| 7440-38-2 | Arsenic, Dissolved | ND | 0.0050 | 0.0019 | U |
| 7440-39-3 | Barium, Dissolved | 0.0740 | 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 | 8.35 | 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 | 0.0269 | 0.0500 | 0.0090 | J |
| 7439-92-1 | Lead, Dissolved | ND | 0.0100 | 0.0027 | U |
| 7439-95-4 | Magnesium, Dissolved | 2.71 | 0.100 | 0.0153 | |
| 7439-96-5 | Manganese, Dissolved | 0.0278 | 0.0100 | 0.0016 | |
| 7440-02-0 | Nickel, Dissolved | ND | 0.0250 | 0.0024 | U |
| 7440-09-7 | Potassium, Dissolved | 1.45 | 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 | 67.9 | 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 | 0.0086 | 0.0050 | 0.0021 | |

# Form 1
# METALS

| | | | | | |
|---|---|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | | Lab Number | : | L2474329 |
| Project Name | : CORAM MATERIALS | | Project Number | : | 2232.0006Y005 |
| Lab ID | : L2474329-04 | | Date Collected | : | 12/16/24 09:33 |
| Client ID | : MW-12D | | Date Received | : | 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | | Date Analyzed | : | 12/23/24 14:27 |
| Sample Matrix | : WATER | | Dilution Factor | : | 1 |
| Analytical Method | : 19,200.7 | | Analyst | : | DMC |
| Lab File ID | : WG2012543.pdf | | Instrument ID | : | TRACE8 |
| Sample Amount | : 50ml | | %Solids | : | N/A |
| Digestion Method | : EPA 3005A | | Date Digested | : | 12/22/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 7429-90-5 | Aluminum, Dissolved | ND | 0.100 | 0.0318 | U |
| 7440-36-0 | Antimony, Dissolved | ND | 0.0500 | 0.0071 | U |
| 7440-38-2 | Arsenic, Dissolved | ND | 0.0050 | 0.0019 | U |
| 7440-39-3 | Barium, Dissolved | 0.0381 | 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 | 13.5 | 0.100 | 0.0350 | |
| 7440-47-3 | Chromium, Dissolved | 0.0037 | 0.0100 | 0.0021 | J |
| 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 | 5.66 | 0.100 | 0.0153 | |
| 7439-96-5 | Manganese, Dissolved | ND | 0.0100 | 0.0016 | U |
| 7440-02-0 | Nickel, Dissolved | 0.0035 | 0.0250 | 0.0024 | J |
| 7440-09-7 | Potassium, Dissolved | 1.16 | 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 | 14.4 | 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 | 0.0100 | 0.0050 | 0.0021 | |

# Form 1
# METALS

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Lab ID** | : L2474329-05 | **Date Collected** | : 12/16/24 12:00 |
| **Client ID** | : EB-12162024 | **Date Received** | : 12/17/24 |
| **Sample Location** | : 416 MILLER PLACE-YAPHANK ROAD | **Date Analyzed** | : 12/23/24 14:32 |
| **Sample Matrix** | : Equipment Blank | **Dilution Factor** | : 1 |
| **Analytical Method** | : 19,200.7 | **Analyst** | : DMC |
| **Lab File ID** | : WG2012543.pdf | **Instrument ID** | : TRACE8 |
| **Sample Amount** | : 50ml | **%Solids** | : N/A |
| **Digestion Method** | : EPA 3005A | **Date Digested** | : 12/22/24 |

| CAS NO. | Parameter | mg/l Results | RL | MDL | Qualifier |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum, Dissolved | ND | 0.100 | 0.0318 | U |
| 7440-36-0 | Antimony, Dissolved | ND | 0.0500 | 0.0071 | U |
| 7440-38-2 | Arsenic, Dissolved | ND | 0.0050 | 0.0019 | U |
| 7440-39-3 | Barium, Dissolved | ND | 0.0100 | 0.0021 | U |
| 7440-41-7 | Beryllium, Dissolved | ND | 0.0050 | 0.0009 | U |
| 7440-43-9 | Cadmium, Dissolved | ND | 0.0050 | 0.0010 | U |
| 7440-70-2 | Calcium, Dissolved | ND | 0.100 | 0.0350 | U |
| 7440-47-3 | Chromium, Dissolved | ND | 0.0100 | 0.0021 | U |
| 7440-48-4 | Cobalt, Dissolved | ND | 0.0200 | 0.0017 | U |
| 7440-50-8 | Copper, Dissolved | ND | 0.0100 | 0.0022 | U |
| 7439-89-6 | Iron, Dissolved | ND | 0.0500 | 0.0090 | U |
| 7439-92-1 | Lead, Dissolved | ND | 0.0100 | 0.0027 | U |
| 7439-95-4 | Magnesium, Dissolved | ND | 0.100 | 0.0153 | U |
| 7439-96-5 | Manganese, Dissolved | ND | 0.0100 | 0.0016 | U |
| 7440-02-0 | Nickel, Dissolved | ND | 0.0250 | 0.0024 | U |
| 7440-09-7 | Potassium, Dissolved | ND | 2.50 | 0.237 | U |
| 7782-49-2 | Selenium, Dissolved | ND | 0.0100 | 0.0035 | U |
| 7440-22-4 | Silver, Dissolved | ND | 0.0070 | 0.0028 | U |
| 7440-23-5 | Sodium, Dissolved | ND | 2.00 | 0.120 | U |
| 7440-28-0 | Thallium, Dissolved | ND | 0.0200 | 0.0025 | U |
| 7440-62-2 | Vanadium, Dissolved | ND | 0.0100 | 0.0020 | U |
| 7440-66-6 | Zinc, Dissolved | ND | 0.0050 | 0.0021 | U |

# Form 1
# METALS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2012440-1 | Date Collected | : NA |
| Client ID | : WG2012440-1BLANK | Date Received | : NA |
| Sample Location | : | Date Analyzed | : 12/23/24 09:51 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 19,200.7 | Analyst | : DMC |
| Lab File ID | : WG2012543.pdf | Instrument ID | : TRACE8 |
| Sample Amount | : 50ml | %Solids | : N/A |
| Digestion Method | : EPA 3005A | Date Digested | : 12/22/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 7429-90-5 | Aluminum, Dissolved | ND | 0.100 | 0.0318 | U |
| 7440-36-0 | Antimony, Dissolved | ND | 0.0500 | 0.0071 | U |
| 7440-38-2 | Arsenic, Dissolved | ND | 0.0050 | 0.0019 | U |
| 7440-39-3 | Barium, Dissolved | ND | 0.0100 | 0.0021 | U |
| 7440-41-7 | Beryllium, Dissolved | ND | 0.0050 | 0.0009 | U |
| 7440-43-9 | Cadmium, Dissolved | ND | 0.0050 | 0.0010 | U |
| 7440-70-2 | Calcium, Dissolved | ND | 0.100 | 0.0350 | U |
| 7440-47-3 | Chromium, Dissolved | ND | 0.0100 | 0.0021 | U |
| 7440-48-4 | Cobalt, Dissolved | ND | 0.0200 | 0.0017 | U |
| 7440-50-8 | Copper, Dissolved | ND | 0.0100 | 0.0022 | U |
| 7439-89-6 | Iron, Dissolved | ND | 0.0500 | 0.0090 | U |
| 7439-92-1 | Lead, Dissolved | ND | 0.0100 | 0.0027 | U |
| 7439-95-4 | Magnesium, Dissolved | ND | 0.100 | 0.0153 | U |
| 7439-96-5 | Manganese, Dissolved | ND | 0.0100 | 0.0016 | U |
| 7440-02-0 | Nickel, Dissolved | ND | 0.0250 | 0.0024 | U |
| 7440-09-7 | Potassium, Dissolved | ND | 2.50 | 0.237 | U |
| 7782-49-2 | Selenium, Dissolved | ND | 0.0100 | 0.0035 | U |
| 7440-22-4 | Silver, Dissolved | ND | 0.0070 | 0.0028 | U |
| 7440-23-5 | Sodium, Dissolved | ND | 2.00 | 0.120 | U |
| 7440-28-0 | Thallium, Dissolved | ND | 0.0200 | 0.0025 | U |
| 7440-62-2 | Vanadium, Dissolved | ND | 0.0100 | 0.0020 | U |
| 7440-66-6 | Zinc, Dissolved | ND | 0.0050 | 0.0021 | U |

# Form 1
# METALS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2012440-4 | Date Collected | : 12/16/24 12:15 |
| Client ID | : WG2012440-4 DUP | Date Received | : 12/16/24 |
| Sample Location | : | Date Analyzed | : 12/23/24 10:22 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 19,200.7 | Analyst | : DMC |
| Lab File ID | : WG2012543.pdf | Instrument ID | : TRACE8 |
| Sample Amount | : 50ml | %Solids | : N/A |
| Digestion Method | : EPA 3005A | Date Digested | : 12/22/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 7440-70-2 | Calcium, Dissolved | 44.1 | 0.100 | 0.035 | |
| 7439-89-6 | Iron, Dissolved | ND | 0.0500 | 0.009 | U |
| 7439-95-4 | Magnesium, Dissolved | 5.30 | 0.100 | 0.015 | |

# Form 1
# METALS

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2012440-8 | Date Collected | : 12/16/24 14:45 |
| Client ID | : WG2012440-8 DUP | Date Received | : 12/16/24 |
| Sample Location | : | Date Analyzed | : 12/23/24 11:25 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 19,200.7 | Analyst | : DMC |
| Lab File ID | : WG2012543.pdf | Instrument ID | : TRACE8 |
| Sample Amount | : 50ml | %Solids | : N/A |
| Digestion Method | : EPA 3005A | Date Digested | : 12/22/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 7440-36-0 | Antimony, Dissolved | ND | 0.0500 | 0.007 | U |
| 7440-38-2 | Arsenic, Dissolved | 0.0033 | 0.0050 | 0.002 | J |
| 7440-39-3 | Barium, Dissolved | 0.0034 | 0.0100 | 0.002 | J |
| 7440-70-2 | Calcium, Dissolved | 18.1 | 0.100 | 0.035 | |
| 7440-47-3 | Chromium, Dissolved | ND | 0.0100 | 0.002 | U |
| 7440-50-8 | Copper, Dissolved | ND | 0.0100 | 0.002 | U |
| 7439-89-6 | Iron, Dissolved | ND | 0.0500 | 0.009 | U |
| 7439-92-1 | Lead, Dissolved | ND | 0.0100 | 0.003 | U |
| 7439-95-4 | Magnesium, Dissolved | 6.51 | 0.100 | 0.015 | |
| 7439-96-5 | Manganese, Dissolved | 0.0173 | 0.0100 | 0.002 | |
| 7440-02-0 | Nickel, Dissolved | ND | 0.0250 | 0.002 | U |

# Form 2A
# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : TRACE6 | Units | : mg/l |

| | Initial Calibration | | | Continuing Calibration(s) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | R1913490-1 | | | | | | | | | |
| Date Analyzed : | 12/19/24 09:24 | | | | | | | | | |
| Parameter | True | Found | %R | True | Found | %R | Found | %R | Found | %R |
| Aluminum | 0.500 | 0.4890 | 98 | | | | | | | |
| Antimony | 0.500 | 0.4920 | 98 | | | | | | | |
| Arsenic | 0.500 | 0.4730 | 95 | | | | | | | |
| Barium | 0.500 | 0.4820 | 96 | | | | | | | |
| Beryllium | 0.500 | 0.5090 | 102 | | | | | | | |
| Cadmium | 0.500 | 0.4780 | 96 | | | | | | | |
| Calcium | 0.500 | 0.5090 | 102 | | | | | | | |
| Chromium | 0.500 | 0.4900 | 98 | | | | | | | |
| Cobalt | 0.500 | 0.4920 | 98 | | | | | | | |
| Copper | 0.500 | 0.4710 | 94 | | | | | | | |
| Iron | 0.500 | 0.5110 | 102 | | | | | | | |
| Lead | 0.500 | 0.4910 | 98 | | | | | | | |
| Magnesium | 0.500 | 0.4930 | 99 | | | | | | | |
| Manganese | 0.500 | 0.4940 | 99 | | | | | | | |
| Nickel | 0.500 | 0.4910 | 98 | | | | | | | |
| Potassium | 5.00 | 5.1300 | 103 | | | | | | | |
| Selenium | 0.500 | 0.4830 | 97 | | | | | | | |
| Silver | 0.500 | 0.4710 | 94 | | | | | | | |
| Sodium | 10.0 | 9.9100 | 99 | | | | | | | |
| Thallium | 0.500 | 0.4950 | 99 | | | | | | | |
| Vanadium | 0.500 | 0.4850 | 97 | | | | | | | |
| Zinc | 0.500 | 0.4870 | 97 | | | | | | | |

Acceptance Criteria:

| | | |
|---|---|---|
| ICV: | 95-105% | (Methods 200.7, 245.1) |
| | 90-110% | (Methods 200.8, 6010, 6020, 7470, 7471, 7474) |
| | 85-115% | (Method 1631) |
| CCV: | 90-110% | (Methods 200.7, 245.1, 6010, 6020, 7474) |
| | 85-115% | (Methods 200.8, 1631) |
| | 80-120% | (Methods 7470, 7471) |

# Form 2A
## Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Instrument ID** | : TRACE6 | **Units** | : mg/l |

| | Initial Calibration | | | Continuing Calibration(s) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | R1913490-3 | | | R1913490-6 | | | R1913490-8 | | R1913490-10 | |
| Date Analyzed : | 12/19/24 09:37 | | | 12/19/24 12:02 | | | 12/19/24 13:44 | | 12/19/24 14:29 | |
| Parameter | True | Found | %R | True | Found | %R | Found | %R | Found | %R |
| Aluminum | 0.500 | 0.5030 | 101 | 0.5000 | 0.498 | 100 | 0.522 | 104 | 0.498 | 100 |
| Antimony | 0.500 | 0.5050 | 101 | 0.5000 | 0.496 | 99 | 0.504 | 101 | 0.505 | 101 |
| Arsenic | 0.500 | 0.4890 | 98 | 0.5000 | 0.468 | 94 | 0.470 | 94 | 0.472 | 94 |
| Barium | 0.500 | 0.4920 | 98 | 0.5000 | 0.487 | 97 | 0.512 | 102 | 0.497 | 99 |
| Beryllium | 0.500 | 0.5210 | 104 | 0.5000 | 0.494 | 99 | 0.513 | 103 | 0.496 | 99 |
| Cadmium | 0.500 | 0.4960 | 99 | 0.5000 | 0.480 | 96 | 0.476 | 95 | 0.476 | 95 |
| Calcium | 0.500 | 0.5260 | 105 | 0.5000 | 0.498 | 100 | 0.516 | 103 | 0.494 | 99 |
| Chromium | 0.500 | 0.5040 | 101 | 0.5000 | 0.483 | 97 | 0.477 | 95 | 0.484 | 97 |
| Cobalt | 0.500 | 0.5080 | 102 | 0.5000 | 0.496 | 99 | 0.502 | 100 | 0.501 | 100 |
| Copper | 0.500 | 0.4850 | 97 | 0.5000 | 0.469 | 94 | 0.476 | 95 | 0.481 | 96 |
| Iron | 0.500 | 0.5220 | 104 | 0.5000 | 0.476 | 95 | 0.495 | 99 | 0.477 | 95 |
| Lead | 0.500 | 0.5060 | 101 | 0.5000 | 0.495 | 99 | 0.499 | 100 | 0.500 | 100 |
| Magnesium | 0.500 | 0.5070 | 101 | 0.5000 | 0.492 | 98 | 0.492 | 98 | 0.496 | 99 |
| Manganese | 0.500 | 0.5040 | 101 | 0.5000 | 0.464 | 93 | 0.483 | 97 | 0.462 | 92 |
| Nickel | 0.500 | 0.5080 | 102 | 0.5000 | 0.492 | 98 | 0.493 | 99 | 0.494 | 99 |
| Potassium | 5.00 | 5.2100 | 104 | 5.0000 | 5.20 | 104 | 5.43 | 109 | 5.24 | 105 |
| Selenium | 0.500 | 0.4960 | 99 | 0.5000 | 0.481 | 96 | 0.492 | 98 | 0.492 | 98 |
| Silver | 0.500 | 0.4880 | 98 | 0.5000 | 0.471 | 94 | 0.474 | 95 | 0.475 | 95 |
| Sodium | 10.0 | 10.3000 | 103 | 10.0000 | 10.2 | 102 | 10.7 | 107 | 10.3 | 103 |
| Thallium | 0.500 | 0.5080 | 102 | 0.5000 | 0.497 | 99 | 0.500 | 100 | 0.502 | 100 |
| Vanadium | 0.500 | 0.5000 | 100 | 0.5000 | 0.481 | 96 | 0.481 | 96 | 0.483 | 97 |
| Zinc | 0.500 | 0.5060 | 101 | 0.5000 | 0.494 | 99 | 0.493 | 99 | 0.491 | 98 |

**Acceptance Criteria:**

| | | |
|---|---|---|
| ICV: | 95-105% | (Methods 200.7, 245.1) |
| | 90-110% | (Methods 200.8, 6010, 6020, 7470, 7471, 7474) |
| | 85-115% | (Method 1631) |
| CCV: | 90-110% | (Methods 200.7, 245.1, 6010, 6020, 7474) |
| | 85-115% | (Methods 200.8, 1631) |
| | 80-120% | (Methods 7470, 7471) |

# Form 2A
# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : TRACE6 | Units | : mg/l |

| | Initial Calibration | | | Continuing Calibration(s) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | | R1913490-12 | | | R1913490-14 | | R1913490-16 | |
| Date Analyzed: | | | | 12/19/24 16:13 | | | 12/19/24 17:40 | | 12/19/24 19:13 | |
| Parameter | True | Found | %R | True | Found | %R | Found | %R | Found | %R |
| Aluminum | | | | 0.5000 | 0.504 | 101 | 0.490 | 98 | 0.496 | 99 |
| Antimony | | | | 0.5000 | 0.510 | 102 | 0.517 | 103 | 0.508 | 102 |
| Arsenic | | | | 0.5000 | 0.468 | 94 | 0.467 | 93 | 0.460 | 92 |
| Barium | | | | 0.5000 | 0.490 | 98 | 0.486 | 97 | 0.484 | 97 |
| Beryllium | | | | 0.5000 | 0.496 | 99 | 0.483 | 97 | 0.483 | 97 |
| Cadmium | | | | 0.5000 | 0.478 | 96 | 0.476 | 95 | 0.473 | 95 |
| Calcium | | | | 0.5000 | 0.510 | 102 | 0.496 | 99 | 0.501 | 100 |
| Chromium | | | | 0.5000 | 0.474 | 95 | 0.465 | 93 | 0.474 | 95 |
| Cobalt | | | | 0.5000 | 0.507 | 101 | 0.513 | 103 | 0.507 | 101 |
| Copper | | | | 0.5000 | 0.470 | 94 | 0.471 | 94 | 0.475 | 95 |
| Iron | | | | 0.5000 | 0.483 | 97 | 0.468 | 94 | 0.468 | 94 |
| Lead | | | | 0.5000 | 0.504 | 101 | 0.508 | 102 | 0.502 | 100 |
| Magnesium | | | | 0.5000 | 0.491 | 98 | 0.486 | 97 | 0.494 | 99 |
| Manganese | | | | 0.5000 | 0.474 | 95 | 0.460 | 92 | 0.462 | 92 |
| Nickel | | | | 0.5000 | 0.494 | 99 | 0.496 | 99 | 0.490 | 98 |
| Potassium | | | | 5.0000 | 5.15 | 103 | 5.08 | 102 | 5.10 | 102 |
| Selenium | | | | 0.5000 | 0.497 | 99 | 0.506 | 101 | 0.496 | 99 |
| Silver | | | | 0.5000 | 0.471 | 94 | 0.470 | 94 | 0.478 | 96 |
| Sodium | | | | 10.0000 | 10.3 | 103 | 10.4 | 104 | 10.4 | 104 |
| Thallium | | | | 0.5000 | 0.496 | 99 | 0.501 | 100 | 0.492 | 98 |
| Vanadium | | | | 0.5000 | 0.475 | 95 | 0.471 | 94 | 0.480 | 96 |
| Zinc | | | | 0.5000 | 0.503 | 101 | 0.504 | 101 | 0.502 | 100 |

Acceptance Criteria:

| | | |
|---|---|---|
| ICV: | 95-105% | (Methods 200.7, 245.1) |
| | 90-110% | (Methods 200.8, 6010, 6020, 7470, 7471, 7474) |
| | 85-115% | (Method 1631) |
| CCV: | 90-110% | (Methods 200.7, 245.1, 6010, 6020, 7474) |
| | 85-115% | (Methods 200.8, 1631) |
| | 80-120% | (Methods 7470, 7471) |

# Form 2A
# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : TRACE6 | Units | : mg/l |

| | Initial Calibration | | | Continuing Calibration(s) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | | R1913490-18 | | | R1913490-20 | | R1913490-22 | |
| Date Analyzed: | | | | 12/19/24 21:09 | | | 12/19/24 21:50 | | 12/19/24 23:15 | |
| Parameter | True | Found | %R | True | Found | %R | Found | %R | Found | %R |
| Aluminum | | | | 0.5000 | 0.500 | 100 | 0.516 | 103 | 0.501 | 100 |
| Antimony | | | | 0.5000 | 0.519 | 104 | 0.523 | 105 | 0.515 | 103 |
| Arsenic | | | | 0.5000 | 0.462 | 92 | 0.466 | 93 | 0.464 | 93 |
| Barium | | | | 0.5000 | 0.484 | 97 | 0.499 | 100 | 0.489 | 98 |
| Beryllium | | | | 0.5000 | 0.481 | 96 | 0.496 | 99 | 0.488 | 98 |
| Cadmium | | | | 0.5000 | 0.476 | 95 | 0.479 | 96 | 0.480 | 96 |
| Calcium | | | | 0.5000 | 0.498 | 100 | 0.516 | 103 | 0.507 | 101 |
| Chromium | | | | 0.5000 | 0.454 | 91 | 0.453 | 91 | 0.456 | 91 |
| Cobalt | | | | 0.5000 | 0.517 | 103 | 0.521 | 104 | 0.514 | 103 |
| Copper | | | | 0.5000 | 0.465 | 93 | 0.463 | 93 | 0.457 | 91 |
| Iron | | | | 0.5000 | 0.466 | 93 | 0.482 | 96 | 0.470 | 94 |
| Lead | | | | 0.5000 | 0.508 | 102 | 0.512 | 102 | 0.507 | 101 |
| Magnesium | | | | 0.5000 | 0.481 | 96 | 0.482 | 96 | 0.480 | 96 |
| Manganese | | | | 0.5000 | 0.466 | 93 | 0.483 | 97 | 0.469 | 94 |
| Nickel | | | | 0.5000 | 0.493 | 99 | 0.498 | 100 | 0.496 | 99 |
| Potassium | | | | 5.0000 | 5.08 | 102 | 5.16 | 103 | 5.14 | 103 |
| Selenium | | | | 0.5000 | 0.507 | 101 | 0.511 | 102 | 0.502 | 100 |
| Silver | | | | 0.5000 | 0.469 | 94 | 0.467 | 93 | 0.461 | 92 |
| Sodium | | | | 10.0000 | 10.6 | 106 | 10.8 | 108 | 10.5 | 105 |
| Thallium | | | | 0.5000 | 0.498 | 100 | 0.501 | 100 | 0.496 | 99 |
| Vanadium | | | | 0.5000 | 0.465 | 93 | 0.463 | 93 | 0.462 | 92 |
| Zinc | | | | 0.5000 | 0.511 | 102 | 0.514 | 103 | 0.511 | 102 |

Acceptance Criteria:

| | | |
|---|---|---|
| ICV: | 95-105% | (Methods 200.7, 245.1) |
| | 90-110% | (Methods 200.8, 6010, 6020, 7470, 7471, 7474) |
| | 85-115% | (Method 1631) |
| CCV: | 90-110% | (Methods 200.7, 245.1, 6010, 6020, 7474) |
| | 85-115% | (Methods 200.8, 1631) |
| | 80-120% | (Methods 7470, 7471) |

# Form 2A
# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : TRACE6 | Units | : mg/l |

| | Initial Calibration | | | Continuing Calibration(s) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | | R1913490-24 | | | R1913490-26 | | | |
| Date Analyzed : | | | | 12/19/24 23:55 | | | 12/20/24 00:08 | | | |
| Parameter | True | Found | %R | True | Found | %R | Found | %R | Found | %R |
| Aluminum | | | | 0.5000 | 0.497 | 99 | 0.488 | 98 | | |
| Antimony | | | | 0.5000 | 0.508 | 102 | 0.504 | 101 | | |
| Arsenic | | | | 0.5000 | 0.460 | 92 | 0.461 | 92 | | |
| Barium | | | | 0.5000 | 0.490 | 98 | 0.489 | 98 | | |
| Beryllium | | | | 0.5000 | 0.487 | 97 | 0.487 | 97 | | |
| Cadmium | | | | 0.5000 | 0.476 | 95 | 0.478 | 96 | | |
| Calcium | | | | 0.5000 | 0.510 | 102 | 0.509 | 102 | | |
| Chromium | | | | 0.5000 | 0.463 | 93 | 0.466 | 93 | | |
| Cobalt | | | | 0.5000 | 0.509 | 102 | 0.508 | 102 | | |
| Copper | | | | 0.5000 | 0.465 | 93 | 0.462 | 92 | | |
| Iron | | | | 0.5000 | 0.471 | 94 | 0.472 | 94 | | |
| Lead | | | | 0.5000 | 0.504 | 101 | 0.501 | 100 | | |
| Magnesium | | | | 0.5000 | 0.486 | 97 | 0.490 | 98 | | |
| Manganese | | | | 0.5000 | 0.470 | 94 | 0.467 | 93 | | |
| Nickel | | | | 0.5000 | 0.491 | 98 | 0.492 | 98 | | |
| Potassium | | | | 5.0000 | 5.15 | 103 | 5.14 | 103 | | |
| Selenium | | | | 0.5000 | 0.497 | 99 | 0.496 | 99 | | |
| Silver | | | | 0.5000 | 0.467 | 93 | 0.466 | 93 | | |
| Sodium | | | | 10.0000 | 10.5 | 105 | 10.4 | 104 | | |
| Thallium | | | | 0.5000 | 0.493 | 99 | 0.492 | 98 | | |
| Vanadium | | | | 0.5000 | 0.468 | 94 | 0.470 | 94 | | |
| Zinc | | | | 0.5000 | 0.507 | 101 | 0.507 | 101 | | |

Acceptance Criteria:

| | | |
|---|---|---|
| ICV: | 95-105% | (Methods 200.7, 245.1) |
| | 90-110% | (Methods 200.8, 6010, 6020, 7470, 7471, 7474) |
| | 85-115% | (Method 1631) |
| CCV: | 90-110% | (Methods 200.7, 245.1, 6010, 6020, 7474) |
| | 85-115% | (Methods 200.8, 1631) |
| | 80-120% | (Methods 7470, 7471) |

Pace

# Form 2A
# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Instrument ID** | : TRACE8 | **Units** | : mg/l |

| | Initial Calibration | | | Continuing Calibration(s) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | R1914581-1 | | | | | | | | | |
| Date Analyzed : | 12/23/24 05:44 | | | | | | | | | |
| **Parameter** | **True** | **Found** | **%R** | **True** | **Found** | **%R** | **Found** | **%R** | **Found** | **%R** |
| Aluminum | 0.500 | 0.4650 | 93 | | | | | | | |
| Antimony | 0.500 | 0.4820 | 96 | | | | | | | |
| Arsenic | 0.500 | 0.4650 | 93 | | | | | | | |
| Barium | 0.500 | 0.4750 | 95 | | | | | | | |
| Beryllium | 0.500 | 0.4900 | 98 | | | | | | | |
| Cadmium | 0.500 | 0.4790 | 96 | | | | | | | |
| Calcium | 0.500 | 0.4800 | 96 | | | | | | | |
| Chromium | 0.500 | 0.4680 | 94 | | | | | | | |
| Cobalt | 0.500 | 0.4900 | 98 | | | | | | | |
| Copper | 0.500 | 0.4700 | 94 | | | | | | | |
| Iron | 0.500 | 0.4920 | 98 | | | | | | | |
| Lead | 0.500 | 0.4750 | 95 | | | | | | | |
| Magnesium | 0.500 | 0.4760 | 95 | | | | | | | |
| Manganese | 0.500 | 0.4740 | 95 | | | | | | | |
| Nickel | 0.500 | 0.4840 | 97 | | | | | | | |
| Potassium | 5.00 | 5.0000 | 100 | | | | | | | |
| Selenium | 0.500 | 0.4700 | 94 | | | | | | | |
| Silver | 0.500 | 0.4720 | 94 | | | | | | | |
| Sodium | 10.0 | 9.7600 | 98 | | | | | | | |
| Thallium | 0.500 | 0.4800 | 96 | | | | | | | |
| Vanadium | 0.500 | 0.4790 | 96 | | | | | | | |
| Zinc | 0.500 | 0.4760 | 95 | | | | | | | |

**Acceptance Criteria:**

| | | |
|---|---|---|
| ICV: | 95-105% | (Methods 200.7, 245.1) |
| | 90-110% | (Methods 200.8, 6010, 6020, 7470, 7471, 7474) |
| | 85-115% | (Method 1631) |
| CCV: | 90-110% | (Methods 200.7, 245.1, 6010, 6020, 7474) |
| | 85-115% | (Methods 200.8, 1631) |
| | 80-120% | (Methods 7470, 7471) |

# Form 2A
# Initial and Continuing Calibration Verification

| | | | | |
|---|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : TRACE8 | Units | : mg/l |

| | Initial Calibration | | | Continuing Calibration(s) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | R1914581-3 | | | R1914581-6 | | | R1914581-8 | | R1914581-10 | |
| Date Analyzed : | 12/23/24 05:56 | | | 12/23/24 07:33 | | | 12/23/24 08:34 | | 12/23/24 09:33 | |
| Parameter | True | Found | %R | True | Found | %R | Found | %R | Found | %R |
| Aluminum | 0.500 | 0.4730 | 95 | 0.5000 | 0.472 | 94 | 0.475 | 95 | 0.484 | 97 |
| Antimony | 0.500 | 0.4900 | 98 | 0.5000 | 0.488 | 98 | 0.484 | 97 | 0.487 | 97 |
| Arsenic | 0.500 | 0.4730 | 95 | 0.5000 | 0.461 | 92 | 0.461 | 92 | 0.468 | 94 |
| Barium | 0.500 | 0.4830 | 97 | 0.5000 | 0.479 | 96 | 0.485 | 97 | 0.496 | 99 |
| Beryllium | 0.500 | 0.4980 | 100 | 0.5000 | 0.490 | 98 | 0.492 | 98 | 0.488 | 98 |
| Cadmium | 0.500 | 0.4850 | 97 | 0.5000 | 0.484 | 97 | 0.483 | 97 | 0.478 | 96 |
| Calcium | 0.500 | 0.4860 | 97 | 0.5000 | 0.490 | 98 | 0.490 | 98 | 0.486 | 97 |
| Chromium | 0.500 | 0.4750 | 95 | 0.5000 | 0.475 | 95 | 0.475 | 95 | 0.475 | 95 |
| Cobalt | 0.500 | 0.4980 | 100 | 0.5000 | 0.495 | 99 | 0.493 | 99 | 0.491 | 98 |
| Copper | 0.500 | 0.4790 | 96 | 0.5000 | 0.472 | 94 | 0.474 | 95 | 0.481 | 96 |
| Iron | 0.500 | 0.4970 | 99 | 0.5000 | 0.492 | 98 | 0.518 | 104 | 0.488 | 98 |
| Lead | 0.500 | 0.4820 | 96 | 0.5000 | 0.476 | 95 | 0.478 | 96 | 0.480 | 96 |
| Magnesium | 0.500 | 0.4820 | 96 | 0.5000 | 0.482 | 96 | 0.484 | 97 | 0.484 | 97 |
| Manganese | 0.500 | 0.4830 | 97 | 0.5000 | 0.479 | 96 | 0.480 | 96 | 0.478 | 96 |
| Nickel | 0.500 | 0.4890 | 98 | 0.5000 | 0.491 | 98 | 0.490 | 98 | 0.487 | 97 |
| Potassium | 5.00 | 5.0900 | 102 | 5.0000 | 5.11 | 102 | 5.20 | 104 | 5.29 | 106 |
| Selenium | 0.500 | 0.4770 | 95 | 0.5000 | 0.464 | 93 | 0.463 | 93 | 0.474 | 95 |
| Silver | 0.500 | 0.4750 | 95 | 0.5000 | 0.477 | 95 | 0.479 | 96 | 0.481 | 96 |
| Sodium | 10.0 | 10.1000 | 101 | 10.0000 | 9.97 | 100 | 10.2 | 102 | 10.4 | 104 |
| Thallium | 0.500 | 0.4890 | 98 | 0.5000 | 0.481 | 96 | 0.481 | 96 | 0.485 | 97 |
| Vanadium | 0.500 | 0.4870 | 97 | 0.5000 | 0.484 | 97 | 0.483 | 97 | 0.487 | 97 |
| Zinc | 0.500 | 0.4810 | 96 | 0.5000 | 0.484 | 97 | 0.482 | 96 | 0.477 | 95 |

Acceptance Criteria:

| | | |
|---|---|---|
| ICV: | 95-105% | (Methods 200.7, 245.1) |
| | 90-110% | (Methods 200.8, 6010, 6020, 7470, 7471, 7474) |
| | 85-115% | (Method 1631) |
| CCV: | 90-110% | (Methods 200.7, 245.1, 6010, 6020, 7474) |
| | 85-115% | (Methods 200.8, 1631) |
| | 80-120% | (Methods 7470, 7471) |

# Form 2A
# Initial and Continuing Calibration Verification

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Instrument ID** | : TRACE8 | **Units** | : mg/l |

| | Initial Calibration | | | Continuing Calibration(s) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | | R1914581-12 | | | R1914581-14 | | R1914581-16 | |
| Date Analyzed: | | | | 12/23/24 10:35 | | | 12/23/24 10:45 | | 12/23/24 11:38 | |
| **Parameter** | **True** | **Found** | **%R** | **True** | **Found** | **%R** | **Found** | **%R** | **Found** | **%R** |
| Aluminum | | | | 0.5000 | 0.495 | 99 | 0.499 | 100 | 0.498 | 100 |
| Antimony | | | | 0.5000 | 0.497 | 99 | 0.496 | 99 | 0.506 | 101 |
| Arsenic | | | | 0.5000 | 0.472 | 94 | 0.482 | 96 | 0.484 | 97 |
| Barium | | | | 0.5000 | 0.502 | 100 | 0.504 | 101 | 0.504 | 101 |
| Beryllium | | | | 0.5000 | 0.493 | 99 | 0.502 | 100 | 0.501 | 100 |
| Cadmium | | | | 0.5000 | 0.477 | 95 | 0.486 | 97 | 0.490 | 98 |
| Calcium | | | | 0.5000 | 0.488 | 98 | 0.493 | 99 | 0.493 | 99 |
| Chromium | | | | 0.5000 | 0.476 | 95 | 0.484 | 97 | 0.486 | 97 |
| Cobalt | | | | 0.5000 | 0.490 | 98 | 0.500 | 100 | 0.503 | 101 |
| Copper | | | | 0.5000 | 0.488 | 98 | 0.495 | 99 | 0.496 | 99 |
| Iron | | | | 0.5000 | 0.487 | 97 | 0.496 | 99 | 0.496 | 99 |
| Lead | | | | 0.5000 | 0.487 | 97 | 0.494 | 99 | 0.499 | 100 |
| Magnesium | | | | 0.5000 | 0.478 | 96 | 0.486 | 97 | 0.489 | 98 |
| Manganese | | | | 0.5000 | 0.481 | 96 | 0.489 | 98 | 0.487 | 97 |
| Nickel | | | | 0.5000 | 0.487 | 97 | 0.496 | 99 | 0.500 | 100 |
| Potassium | | | | 5.0000 | 5.45 | 109 | 5.48 | 110 | 5.50 | 110 |
| Selenium | | | | 0.5000 | 0.486 | 97 | 0.493 | 99 | 0.495 | 99 |
| Silver | | | | 0.5000 | 0.486 | 97 | 0.490 | 98 | 0.491 | 98 |
| Sodium | | | | 10.0000 | 10.7 | 107 | 10.7 | 107 | 10.9 | 109 |
| Thallium | | | | 0.5000 | 0.494 | 99 | 0.503 | 101 | 0.508 | 102 |
| Vanadium | | | | 0.5000 | 0.488 | 98 | 0.497 | 99 | 0.500 | 100 |
| Zinc | | | | 0.5000 | 0.476 | 95 | 0.484 | 97 | 0.486 | 97 |

Acceptance Criteria:

| | | |
|---|---|---|
| ICV: | 95-105% | (Methods 200.7, 245.1) |
| | 90-110% | (Methods 200.8, 6010, 6020, 7470, 7471, 7474) |
| | 85-115% | (Method 1631) |
| CCV: | 90-110% | (Methods 200.7, 245.1, 6010, 6020, 7474) |
| | 85-115% | (Methods 200.8, 1631) |
| | 80-120% | (Methods 7470, 7471) |

# Form 2A
# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : TRACE8 | Units | : mg/l |

| | Initial Calibration | | | Continuing Calibration(s) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | | R1914581-18 | | | R1914581-20 | | R1914581-22 | |
| Date Analyzed: | | | | 12/23/24 12:34 | | | 12/23/24 12:43 | | 12/23/24 13:42 | |
| Parameter | True | Found | %R | True | Found | %R | Found | %R | Found | %R |
| Aluminum | | | | 0.5000 | 0.497 | 99 | 0.504 | 101 | 0.488 | 98 |
| Antimony | | | | 0.5000 | 0.506 | 101 | 0.500 | 100 | 0.486 | 97 |
| Arsenic | | | | 0.5000 | 0.478 | 96 | 0.484 | 97 | 0.462 | 92 |
| Barium | | | | 0.5000 | 0.505 | 101 | 0.511 | 102 | 0.497 | 99 |
| Beryllium | | | | 0.5000 | 0.501 | 100 | 0.505 | 101 | 0.489 | 98 |
| Cadmium | | | | 0.5000 | 0.485 | 97 | 0.485 | 97 | 0.471 | 94 |
| Calcium | | | | 0.5000 | 0.493 | 99 | 0.505 | 101 | 0.483 | 97 |
| Chromium | | | | 0.5000 | 0.484 | 97 | 0.484 | 97 | 0.476 | 95 |
| Cobalt | | | | 0.5000 | 0.500 | 100 | 0.501 | 100 | 0.493 | 99 |
| Copper | | | | 0.5000 | 0.494 | 99 | 0.497 | 99 | 0.483 | 97 |
| Iron | | | | 0.5000 | 0.498 | 100 | 0.504 | 101 | 0.484 | 97 |
| Lead | | | | 0.5000 | 0.496 | 99 | 0.499 | 100 | 0.482 | 96 |
| Magnesium | | | | 0.5000 | 0.490 | 98 | 0.490 | 98 | 0.481 | 96 |
| Manganese | | | | 0.5000 | 0.486 | 97 | 0.490 | 98 | 0.477 | 95 |
| Nickel | | | | 0.5000 | 0.498 | 100 | 0.498 | 100 | 0.490 | 98 |
| Potassium | | | | 5.0000 | 5.47 | 109 | 5.48 | 110 | 5.31 | 106 |
| Selenium | | | | 0.5000 | 0.491 | 98 | 0.497 | 99 | 0.474 | 95 |
| Silver | | | | 0.5000 | 0.488 | 98 | 0.490 | 98 | 0.485 | 97 |
| Sodium | | | | 10.0000 | 11.1 | 111 | 11.0 | 110 | 10.4 | 104 |
| Thallium | | | | 0.5000 | 0.502 | 100 | 0.508 | 102 | 0.486 | 97 |
| Vanadium | | | | 0.5000 | 0.498 | 100 | 0.502 | 100 | 0.488 | 98 |
| Zinc | | | | 0.5000 | 0.485 | 97 | 0.484 | 97 | 0.473 | 95 |

Acceptance Criteria:

| | | |
|---|---|---|
| ICV: | 95-105% | (Methods 200.7, 245.1) |
| | 90-110% | (Methods 200.8, 6010, 6020, 7470, 7471, 7474) |
| | 85-115% | (Method 1631) |
| CCV: | 90-110% | (Methods 200.7, 245.1, 6010, 6020, 7474) |
| | 85-115% | (Methods 200.8, 1631) |
| | 80-120% | (Methods 7470, 7471) |

# Form 2A
# Initial and Continuing Calibration Verification

| | | | | | |
|---|---|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | | Lab Number | : L2474329 | |
| Project Name | : CORAM MATERIALS | | Project Number | : 2232.0006Y005 | |
| Instrument ID | : TRACE8 | | Units | : mg/l | |

| | Initial Calibration | | | Continuing Calibration(s) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | | R1914581-24 | | | | | | |
| Date Analyzed : | | | | 12/23/24 14:36 | | | | | | |
| **Parameter** | **True** | **Found** | **%R** | **True** | **Found** | **%R** | **Found** | **%R** | **Found** | **%R** |
| Aluminum | | | | 0.5000 | 0.487 | 97 | | | | |
| Antimony | | | | 0.5000 | 0.484 | 97 | | | | |
| Arsenic | | | | 0.5000 | 0.462 | 92 | | | | |
| Barium | | | | 0.5000 | 0.498 | 100 | | | | |
| Beryllium | | | | 0.5000 | 0.490 | 98 | | | | |
| Cadmium | | | | 0.5000 | 0.471 | 94 | | | | |
| Calcium | | | | 0.5000 | 0.479 | 96 | | | | |
| Chromium | | | | 0.5000 | 0.475 | 95 | | | | |
| Cobalt | | | | 0.5000 | 0.490 | 98 | | | | |
| Copper | | | | 0.5000 | 0.481 | 96 | | | | |
| Iron | | | | 0.5000 | 0.486 | 97 | | | | |
| Lead | | | | 0.5000 | 0.481 | 96 | | | | |
| Magnesium | | | | 0.5000 | 0.477 | 95 | | | | |
| Manganese | | | | 0.5000 | 0.476 | 95 | | | | |
| Nickel | | | | 0.5000 | 0.487 | 97 | | | | |
| Potassium | | | | 5.0000 | 5.30 | 106 | | | | |
| Selenium | | | | 0.5000 | 0.476 | 95 | | | | |
| Silver | | | | 0.5000 | 0.482 | 96 | | | | |
| Sodium | | | | 10.0000 | 10.3 | 103 | | | | |
| Thallium | | | | 0.5000 | 0.486 | 97 | | | | |
| Vanadium | | | | 0.5000 | 0.486 | 97 | | | | |
| Zinc | | | | 0.5000 | 0.472 | 94 | | | | |

Acceptance Criteria:

| | | |
|---|---|---|
| ICV: | 95-105% | (Methods 200.7, 245.1) |
| | 90-110% | (Methods 200.8, 6010, 6020, 7470, 7471, 7474) |
| | 85-115% | (Method 1631) |
| CCV: | 90-110% | (Methods 200.7, 245.1, 6010, 6020, 7474) |
| | 85-115% | (Methods 200.8, 1631) |
| | 80-120% | (Methods 7470, 7471) |

# Form 3
# Blanks

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : TRACE6 | | |

| | Initial Calibration Blank | | Continuing Calibration Blank(s) | | | | | | Preparation Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | R1913490-2 | | R1913490-7 | | R1913490-9 | | R1913490-11 | | WG2010915-1 | |
| Date Analyzed : | 12/19/24 09:30 | | 12/19/24 12:09 | | 12/19/24 13:50 | | 12/19/24 14:35 | | 12/19/24 20:03 | |
| Parameter | mg/l | Q | mg/l | Q | mg/l | Q | mg/l | Q | mg/l | Q |
| Aluminum | 0.0318 | U | 0.0318 | U | 0.0318 | U | 0.0318 | U | 0.0318 | U |
| Antimony | 0.00710 | U | 0.00710 | U | 0.00710 | U | 0.00710 | U | 0.0071 | U |
| Arsenic | 0.00190 | U | 0.00190 | U | 0.00190 | U | 0.00190 | U | 0.0019 | U |
| Barium | 0.00210 | U | 0.00210 | U | 0.00210 | U | 0.00210 | U | 0.0021 | U |
| Beryllium | 0.000900 | U | 0.000900 | U | 0.000900 | U | 0.000900 | U | 0.0009 | U |
| Cadmium | 0.00100 | U | 0.00100 | U | 0.00100 | U | 0.00100 | U | 0.0010 | U |
| Calcium | 0.0350 | U | 0.0350 | U | 0.0527 | J | 0.0571 | J | 0.0487 | J |
| Chromium | 0.00210 | U | 0.00210 | U | 0.00210 | U | 0.00210 | U | 0.0021 | U |
| Cobalt | 0.00170 | U | 0.00170 | U | 0.00170 | U | 0.00170 | U | 0.0017 | U |
| Copper | 0.00220 | U | 0.00220 | U | 0.00220 | U | 0.00220 | U | 0.0022 | U |
| Iron | 0.00900 | U | 0.00900 | U | 0.00900 | U | 0.00900 | U | 0.0090 | U |
| Lead | 0.00270 | U | 0.00270 | U | 0.00270 | U | 0.00270 | U | 0.0027 | U |
| Magnesium | 0.0153 | U | 0.0153 | U | 0.0153 | U | 0.0153 | U | 0.0153 | U |
| Manganese | 0.00160 | U | 0.00160 | U | 0.00160 | U | 0.00160 | U | 0.0016 | U |
| Nickel | 0.00240 | U | 0.00240 | U | 0.00240 | U | 0.00240 | U | 0.0024 | U |
| Potassium | 0.237 | U | 0.237 | U | 0.237 | U | 0.237 | U | 0.237 | U |
| Selenium | 0.00350 | U | 0.00350 | U | 0.00350 | U | 0.00350 | U | 0.0035 | U |
| Silver | 0.00280 | U | 0.00280 | U | 0.00280 | U | 0.00280 | U | 0.0028 | U |
| Sodium | 0.120 | U | 0.120 | U | 0.120 | U | 0.120 | U | 0.120 | U |
| Thallium | 0.00250 | U | 0.00250 | U | 0.00250 | U | 0.00250 | U | 0.0025 | U |
| Vanadium | 0.00200 | U | 0.00200 | U | 0.00200 | U | 0.00200 | U | 0.0020 | U |
| Zinc | 0.00210 | U | 0.00210 | U | 0.00210 | U | 0.00210 | U | 0.0021 | U |

# Form 3
# Blanks

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : TRACE6 | | |

| | Initial Calibration Blank | | Continuing Calibration Blank(s) | | | | | | Preparation Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | R1913490-4 | | R1913490-13 | | R1913490-15 | | R1913490-17 | | | |
| Date Analyzed : | 12/19/24 09:44 | | 12/19/24 16:19 | | 12/19/24 17:46 | | 12/19/24 19:19 | | | |
| Parameter | mg/l | Q | mg/l | Q | mg/l | Q | mg/l | Q | | Q |
| Aluminum | 0.0318 | U | 0.0318 | U | 0.0318 | U | 0.0318 | U | | |
| Antimony | 0.00710 | U | 0.00710 | U | 0.00710 | U | 0.00710 | U | | |
| Arsenic | 0.00190 | U | 0.00190 | U | 0.00190 | U | 0.00214 | J | | |
| 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 | 0.0561 | J | 0.0521 | J | 0.0350 | U | | |
| Chromium | 0.00210 | U | 0.00210 | U | 0.00210 | U | 0.00210 | U | | |
| Cobalt | 0.00170 | U | 0.00170 | U | 0.00170 | U | 0.00170 | U | | |
| Copper | 0.00220 | U | 0.00220 | U | 0.00220 | U | 0.00220 | U | | |
| Iron | 0.00900 | U | 0.00900 | U | 0.00900 | U | 0.00900 | U | | |
| Lead | 0.00270 | U | 0.00270 | U | 0.00270 | U | 0.00270 | U | | |
| Magnesium | 0.0153 | U | 0.0153 | U | 0.0153 | U | 0.0153 | U | | |
| Manganese | 0.00160 | U | 0.00160 | U | 0.00160 | U | 0.00160 | U | | |
| Nickel | 0.00240 | U | 0.00240 | U | 0.00240 | U | 0.00240 | U | | |
| Potassium | 0.237 | U | 0.237 | U | 0.237 | U | 0.237 | U | | |
| Selenium | 0.00350 | U | 0.00350 | U | 0.00350 | U | 0.00350 | U | | |
| Silver | 0.00280 | U | 0.00280 | U | 0.00280 | U | 0.00280 | U | | |
| Sodium | 0.120 | U | 0.120 | U | 0.120 | U | 0.120 | U | | |
| Thallium | 0.00250 | U | 0.00250 | U | 0.00250 | U | 0.00250 | U | | |
| Vanadium | 0.00200 | U | 0.00200 | U | 0.00200 | U | 0.00200 | U | | |
| Zinc | 0.00210 | U | 0.00210 | U | 0.00210 | U | 0.00210 | U | | |

# Form 3
# Blanks

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : TRACE6 | | |

| | Initial Calibration Blank | | Continuing Calibration Blank(s) | | | | | | Preparation Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | R1913490-19 | | R1913490-21 | | R1913490-23 | | | |
| Date Analyzed : | | | 12/19/24 21:15 | | 12/19/24 21:57 | | 12/19/24 23:21 | | | |
| Parameter | mg/l | Q | mg/l | Q | mg/l | Q | mg/l | Q | | Q |
| Aluminum | | | 0.0318 | U | 0.0318 | U | 0.0318 | U | | |
| Antimony | | | 0.00710 | U | 0.00710 | U | 0.00710 | U | | |
| Arsenic | | | 0.00190 | U | 0.00190 | U | 0.00190 | U | | |
| Barium | | | 0.00210 | U | 0.00210 | U | 0.00210 | U | | |
| Beryllium | | | 0.000900 | U | 0.000900 | U | 0.000900 | U | | |
| Cadmium | | | 0.00100 | U | 0.00100 | U | 0.00100 | U | | |
| Calcium | | | 0.0350 | U | 0.0350 | U | 0.0350 | U | | |
| Chromium | | | 0.00210 | U | 0.00210 | U | 0.00210 | U | | |
| Cobalt | | | 0.00170 | U | 0.00170 | U | 0.00170 | U | | |
| Copper | | | 0.00220 | U | 0.00220 | U | 0.00220 | U | | |
| Iron | | | 0.00900 | U | 0.00900 | U | 0.00900 | U | | |
| Lead | | | 0.00270 | U | 0.00270 | U | 0.00270 | U | | |
| Magnesium | | | 0.0153 | U | 0.0153 | U | 0.0153 | U | | |
| Manganese | | | 0.00160 | U | 0.00160 | U | 0.00160 | U | | |
| Nickel | | | 0.00240 | U | 0.00240 | U | 0.00240 | U | | |
| Potassium | | | 0.237 | U | 0.237 | U | 0.237 | U | | |
| Selenium | | | 0.00350 | U | 0.00350 | U | 0.00350 | U | | |
| Silver | | | 0.00280 | U | 0.00280 | U | 0.00280 | U | | |
| Sodium | | | 0.120 | U | 0.120 | U | 0.120 | U | | |
| Thallium | | | 0.00250 | U | 0.00250 | U | 0.00250 | U | | |
| Vanadium | | | 0.00200 | U | 0.00200 | U | 0.00200 | U | | |
| Zinc | | | 0.00210 | U | 0.00210 | U | 0.00210 | U | | |

# Form 3
# Blanks

**Client** : Roux Env. Eng. & Geology, DPC  **Lab Number** : L2474329
**Project Name** : CORAM MATERIALS  **Project Number** : 2232.0006Y005
**Instrument ID** : TRACE6

| | Initial Calibration Blank | | Continuing Calibration Blank(s) | | | | | | Preparation Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | R1913490-25 | | R1913490-27 | | | | | |
| Date Analyzed : | | | 12/20/24 00:01 | | 12/20/24 00:14 | | | | | |
| Parameter | mg/l | Q | mg/l | Q | mg/l | Q | mg/l | Q | | Q |
| Aluminum | | | 0.0318 | U | 0.0318 | U | | | | |
| Antimony | | | 0.00710 | U | 0.00710 | U | | | | |
| Arsenic | | | 0.00190 | U | 0.00190 | U | | | | |
| Barium | | | 0.00210 | U | 0.00210 | U | | | | |
| Beryllium | | | 0.000900 | U | 0.000900 | U | | | | |
| Cadmium | | | 0.00100 | U | 0.00100 | U | | | | |
| Calcium | | | 0.0350 | U | 0.0350 | U | | | | |
| Chromium | | | 0.00210 | U | 0.00210 | U | | | | |
| Cobalt | | | 0.00170 | U | 0.00170 | U | | | | |
| Copper | | | 0.00220 | U | 0.00220 | U | | | | |
| Iron | | | 0.00900 | U | 0.00900 | U | | | | |
| Lead | | | 0.00270 | U | 0.00270 | U | | | | |
| Magnesium | | | 0.0153 | U | 0.0153 | U | | | | |
| Manganese | | | 0.00160 | U | 0.00160 | U | | | | |
| Nickel | | | 0.00240 | U | 0.00240 | U | | | | |
| Potassium | | | 0.237 | U | 0.237 | U | | | | |
| Selenium | | | 0.00350 | U | 0.00350 | U | | | | |
| Silver | | | 0.00280 | U | 0.00280 | U | | | | |
| Sodium | | | 0.120 | U | 0.120 | U | | | | |
| Thallium | | | 0.00250 | U | 0.00250 | U | | | | |
| Vanadium | | | 0.00200 | U | 0.00200 | U | | | | |
| Zinc | | | 0.00210 | U | 0.00210 | U | | | | |

# Form 3
# Blanks

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : TRACE8 | | |

| | Initial Calibration Blank | | Continuing Calibration Blank(s) | | | | | | Preparation Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | R1914581-2 | | R1914581-7 | | R1914581-9 | | R1914581-11 | | WG2012440-1 | |
| Date Analyzed : | 12/23/24 05:48 | | 12/23/24 07:37 | | 12/23/24 08:38 | | 12/23/24 09:37 | | 12/23/24 09:51 | |
| Parameter | mg/l | Q | mg/l | Q | mg/l | Q | mg/l | Q | mg/l | Q |
| Aluminum | 0.0318 | U | 0.0318 | U | 0.0318 | U | 0.0318 | U | 0.0318 | U |
| Antimony | 0.00710 | U | 0.00710 | U | 0.00710 | U | 0.00710 | U | 0.0071 | U |
| Arsenic | 0.00190 | U | 0.00190 | U | 0.00190 | U | 0.00190 | U | 0.0019 | U |
| Barium | 0.00210 | U | 0.00210 | U | 0.00210 | U | 0.00210 | U | 0.0021 | U |
| Beryllium | 0.000900 | U | 0.000900 | U | 0.000900 | U | 0.000900 | U | 0.0009 | U |
| Cadmium | 0.00100 | U | 0.00100 | U | 0.00100 | U | 0.00100 | U | 0.0010 | U |
| Calcium | 0.0350 | U | 0.0350 | U | 0.0350 | U | 0.0350 | U | 0.0350 | U |
| Chromium | 0.00210 | U | 0.00210 | U | 0.00210 | U | 0.00210 | U | 0.0021 | U |
| Cobalt | 0.00170 | U | 0.00170 | U | 0.00170 | U | 0.00170 | U | 0.0017 | U |
| Copper | 0.00220 | U | 0.00220 | U | 0.00220 | U | 0.00220 | U | 0.0022 | U |
| Iron | 0.00900 | U | 0.00900 | U | 0.00900 | U | 0.00900 | U | 0.0090 | U |
| Lead | 0.00270 | U | 0.00270 | U | 0.00270 | U | 0.00270 | U | 0.0027 | U |
| Magnesium | 0.0153 | U | 0.0153 | U | 0.0153 | U | 0.0153 | U | 0.0153 | U |
| Manganese | 0.00160 | U | 0.00160 | U | 0.00160 | U | 0.00160 | U | 0.0016 | U |
| Nickel | 0.00240 | U | 0.00240 | U | 0.00240 | U | 0.00240 | U | 0.0024 | U |
| Potassium | 0.237 | U | 0.237 | U | 0.237 | U | 0.237 | U | 0.237 | U |
| Selenium | 0.00350 | U | 0.00350 | U | 0.00350 | U | 0.00350 | U | 0.0035 | U |
| Silver | 0.00280 | U | 0.00280 | U | 0.00280 | U | 0.00280 | U | 0.0028 | U |
| Sodium | 0.120 | U | 0.120 | U | 0.120 | U | 0.120 | U | 0.120 | U |
| Thallium | 0.00250 | U | 0.00250 | U | 0.00250 | U | 0.00250 | U | 0.0025 | U |
| Vanadium | 0.00200 | U | 0.00200 | U | 0.00200 | U | 0.00200 | U | 0.0020 | U |
| Zinc | 0.00210 | U | 0.00210 | U | 0.00210 | U | 0.00210 | U | 0.0021 | U |

# Form 3
# Blanks

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : TRACE8 | | |

| | Initial Calibration Blank | | Continuing Calibration Blank(s) | | | | | | Preparation Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | R1914581-4 | | R1914581-13 | | R1914581-15 | | R1914581-17 | | | |
| Date Analyzed : | 12/23/24 06:01 | | 12/23/24 10:40 | | 12/23/24 10:50 | | 12/23/24 11:43 | | | |
| Parameter | mg/l | Q | mg/l | Q | mg/l | Q | mg/l | Q | | Q |
| Aluminum | 0.0318 | U | 0.0318 | U | 0.0318 | U | 0.0318 | U | | |
| Antimony | 0.00710 | U | 0.00710 | U | 0.00710 | U | 0.00710 | U | | |
| Arsenic | 0.00190 | U | 0.00190 | U | 0.00190 | U | 0.00190 | U | | |
| Barium | 0.00210 | U | 0.00210 | U | 0.00210 | U | 0.00210 | U | | |
| Beryllium | 0.000900 | U | 0.000900 | U | 0.000900 | U | 0.000900 | U | | |
| Cadmium | 0.00100 | U | 0.00100 | U | 0.00100 | U | 0.00100 | U | | |
| Calcium | 0.0350 | U | 0.0350 | U | 0.0350 | U | 0.0350 | U | | |
| Chromium | 0.00210 | U | 0.00210 | U | 0.00210 | U | 0.00210 | U | | |
| Cobalt | 0.00170 | U | 0.00170 | U | 0.00170 | U | 0.00170 | U | | |
| Copper | 0.00220 | U | 0.00220 | U | 0.00220 | U | 0.00220 | U | | |
| Iron | 0.00900 | U | 0.00900 | U | 0.00900 | U | 0.00900 | U | | |
| Lead | 0.00270 | U | 0.00270 | U | 0.00270 | U | 0.00270 | U | | |
| Magnesium | 0.0153 | U | 0.0153 | U | 0.0153 | U | 0.0153 | U | | |
| Manganese | 0.00160 | U | 0.00160 | U | 0.00160 | U | 0.00160 | U | | |
| Nickel | 0.00240 | U | 0.00240 | U | 0.00240 | U | 0.00240 | U | | |
| Potassium | 0.237 | U | 0.237 | U | 0.237 | U | 0.237 | U | | |
| Selenium | 0.00350 | U | 0.00350 | U | 0.00350 | U | 0.00350 | U | | |
| Silver | 0.00280 | U | 0.00280 | U | 0.00280 | U | 0.00280 | U | | |
| Sodium | 0.120 | U | 0.120 | U | 0.120 | U | 0.120 | U | | |
| Thallium | 0.00250 | U | 0.00250 | U | 0.00250 | U | 0.00250 | U | | |
| Vanadium | 0.00200 | U | 0.00200 | U | 0.00200 | U | 0.00200 | U | | |
| Zinc | 0.00210 | U | 0.00210 | U | 0.00210 | U | 0.00210 | U | | |

# Form 3
# Blanks

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : TRACE8 | | |

| | Initial Calibration Blank | | Continuing Calibration Blank(s) | | | | | | Preparation Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | R1914581-19 | | R1914581-21 | | R1914581-23 | | | |
| Date Analyzed : | | | 12/23/24 12:38 | | 12/23/24 12:48 | | 12/23/24 13:46 | | | |
| Parameter | mg/l | Q | mg/l | Q | mg/l | Q | mg/l | Q | | Q |
| Aluminum | | | 0.0318 | U | 0.0318 | U | 0.0318 | U | | |
| Antimony | | | 0.00710 | U | 0.00710 | U | 0.00710 | U | | |
| Arsenic | | | 0.00190 | U | 0.00190 | U | 0.00190 | U | | |
| Barium | | | 0.00210 | U | 0.00210 | U | 0.00210 | U | | |
| Beryllium | | | 0.000900 | U | 0.000900 | U | 0.000900 | U | | |
| Cadmium | | | 0.00100 | U | 0.00100 | U | 0.00100 | U | | |
| Calcium | | | 0.0350 | U | 0.0350 | U | 0.0350 | U | | |
| Chromium | | | 0.00210 | U | 0.00210 | U | 0.00210 | U | | |
| Cobalt | | | 0.00170 | U | 0.00170 | U | 0.00170 | U | | |
| Copper | | | 0.00220 | U | 0.00220 | U | 0.00220 | U | | |
| Iron | | | 0.00900 | U | 0.00900 | U | 0.00900 | U | | |
| Lead | | | 0.00270 | U | 0.00270 | U | 0.00270 | U | | |
| Magnesium | | | 0.0153 | U | 0.0153 | U | 0.0153 | U | | |
| Manganese | | | 0.00160 | U | 0.00160 | U | 0.00160 | U | | |
| Nickel | | | 0.00240 | U | 0.00240 | U | 0.00240 | U | | |
| Potassium | | | 0.237 | U | 0.237 | U | 0.237 | U | | |
| Selenium | | | 0.00350 | U | 0.00350 | U | 0.00350 | U | | |
| Silver | | | 0.00280 | U | 0.00280 | U | 0.00280 | U | | |
| Sodium | | | 0.120 | U | 0.120 | U | 0.120 | U | | |
| Thallium | | | 0.00250 | U | 0.00250 | U | 0.00250 | U | | |
| Vanadium | | | 0.00200 | U | 0.00200 | U | 0.00200 | U | | |
| Zinc | | | 0.00210 | U | 0.00210 | U | 0.00210 | U | | |

# Form 3
# Blanks

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : TRACE8 | | |

| | Initial Calibration Blank | | Continuing Calibration Blank(s) | | | | | | Preparation Blank |
|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | R1914581-25 | | | | | | |
| Date Analyzed: | | | 12/23/24 14:41 | | | | | | |
| Parameter | mg/l | Q | mg/l | Q | mg/l | Q | mg/l | 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 4a
# Interference Check Sample

| | | | | |
|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : | L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : | 2232.0006Y005 |
| **Instrument ID** | : TRACE6 | **Concentration Units** | : | mg/l |

| | True | | Initial Found | | | | Final Found | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | R1913490-5 | | | | | | | |
| Analysis Date : | | | 12/19/24 09:57 | | | | | | | |
| | Sol. | Sol. | Sol. | | Sol. | | Sol. | | Sol. | |
| Analyte | A | AB | A | %R | AB | %R | A | %R | AB | %R |
| Aluminum | 500 | | 516. | 103 | | | | | | |
| Antimony | | | 0.0166 | | | | | | | |
| Arsenic | | | 0.000119 | | | | | | | |
| Barium | | | 0.00137 | | | | | | | |
| Beryllium | | | -0.000210 | | | | | | | |
| Cadmium | | | -0.00267 | | | | | | | |
| Calcium | 500 | | 483. | 97 | | | | | | |
| Chromium | | | -0.000946 | | | | | | | |
| Cobalt | | | 0.000447 | | | | | | | |
| Copper | | | 0.00412 | | | | | | | |
| Iron | 200 | | 188. | 94 | | | | | | |
| Lead | | | 0.00822 | | | | | | | |
| Magnesium | 500 | | 480. | 96 | | | | | | |
| Manganese | | | 0.00167 | | | | | | | |
| Nickel | | | 0.00516 | | | | | | | |
| Potassium | | | 0.0437 | | | | | | | |
| Selenium | | | -0.00735 | | | | | | | |
| Silver | | | -0.0000382 | | | | | | | |
| Sodium | | | 0.0221 | | | | | | | |
| Thallium | | | -0.00581 | | | | | | | |
| Vanadium | | | 0.000829 | | | | | | | |
| Zinc | | | 0.00134 | | | | | | | |

<u>Acceptance Criteria:</u> Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

# Form 4a
# Interference Check Sample

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : TRACE8 | Concentration Units | : mg/l |

| | True | | Initial Found | | | | Final Found | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | R1914581-5 | | | | | | | |
| Analysis Date : | | | 12/23/24 06:09 | | | | | | | |
| Analyte | Sol. A | Sol. AB | Sol. A | %R | Sol. AB | %R | Sol. A | %R | Sol. AB | %R |
| Aluminum | 500 | | 511. | 102 | | | | | | |
| Antimony | | | -0.00378 | | | | | | | |
| Arsenic | | | -0.000822 | | | | | | | |
| Barium | | | 0.00148 | | | | | | | |
| Beryllium | | | 0.0000459 | | | | | | | |
| Cadmium | | | -0.000114 | | | | | | | |
| Calcium | 500 | | 462. | 92 | | | | | | |
| Chromium | | | 0.000362 | | | | | | | |
| Cobalt | | | -0.000104 | | | | | | | |
| Copper | | | 0.00354 | | | | | | | |
| Iron | 200 | | 180. | 90 | | | | | | |
| Lead | | | 0.00551 | | | | | | | |
| Magnesium | 500 | | 460. | 92 | | | | | | |
| Manganese | | | 0.00143 | | | | | | | |
| Nickel | | | -0.000672 | | | | | | | |
| Potassium | | | -0.0240 | | | | | | | |
| Selenium | | | -0.00550 | | | | | | | |
| Silver | | | 0.00288 | | | | | | | |
| Sodium | | | 0.0166 | | | | | | | |
| Thallium | | | 0.00298 | | | | | | | |
| Vanadium | | | -0.00233 | | | | | | | |
| Zinc | | | -0.00105 | | | | | | | |

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

# Form 5a
# Matrix Spike

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Client Sample ID** | : NA | **Matrix** | : WATER |
| **Lab Sample ID** | : L2474304-01 | | |
| **Matrix Spike** | : WG2010915-3 | **MS Analysis Date** | : 12/19/24 20:43 |
| **Matrix Spike Dup** | : | **MSD Analysis Date** | : |

| | | Matrix Spike Sample | | | Matrix Spike Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Parameter | Sample Conc. (mg/l) | Spike Added (mg/l) | Spike Conc. (mg/l) | %R | Spike Added (mg/l) | Spike Conc. (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
| Aluminum, Total | 4.93 | 2 | 7.30 | 118 | | | | | 75-125 | 20 |
| Antimony, Total | ND | 0.5 | 0.575 | 115 | | | | | 75-125 | 20 |
| Arsenic, Total | 0.005J | 0.12 | 0.134 | 112 | | | | | 75-125 | 20 |
| Barium, Total | 0.044 | 2 | 2.38 | 117 | | | | | 75-125 | 20 |
| Beryllium, Total | ND | 0.05 | 0.0570 | 114 | | | | | 75-125 | 20 |
| Cadmium, Total | ND | 0.053 | 0.0551 | 104 | | | | | 75-125 | 20 |
| Calcium, Total | 40.8 | 10 | 50.7 | 99 | | | | | 75-125 | 20 |
| Chromium, Total | 0.007J | 0.2 | 0.197 | 98 | | | | | 75-125 | 20 |
| Cobalt, Total | ND | 0.5 | 0.552 | 110 | | | | | 75-125 | 20 |
| Copper, Total | 0.018 | 0.25 | 0.286 | 107 | | | | | 75-125 | 20 |
| Iron, Total | 1.52 | 1 | 2.48 | 96 | | | | | 75-125 | 20 |
| Lead, Total | 0.029 | 0.53 | 0.606 | 109 | | | | | 75-125 | 20 |
| Magnesium, Total | 5.36 | 10 | 15.1 | 97 | | | | | 75-125 | 20 |
| Manganese, Total | 0.176 | 0.5 | 0.707 | 106 | | | | | 75-125 | 20 |
| Nickel, Total | 0.005J | 0.5 | 0.520 | 104 | | | | | 75-125 | 20 |
| Potassium, Total | 12.4 | 10 | 24.1 | 117 | | | | | 75-125 | 20 |
| Selenium, Total | ND | 0.12 | 0.141 | 118 | | | | | 75-125 | 20 |
| Silver, Total | ND | 0.05 | 0.0523 | 105 | | | | | 75-125 | 20 |
| Sodium, Total | 128 | 10 | 142. | 140 Q | | | | | 75-125 | 20 |
| Thallium, Total | ND | 0.12 | 0.126 | 105 | | | | | 75-125 | 20 |
| Vanadium, Total | 0.0104 | 0.5 | 0.506 | 99 | | | | | 75-125 | 20 |
| Zinc, Total | 0.031 | 0.5 | 0.567 | 107 | | | | | 75-125 | 20 |

# Form 5a
# Matrix Spike

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : | **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : | **L2474329** |
| **Project Name** | : | **CORAM MATERIALS** | **Project Number** | : | **2232.0006Y005** |
| **Client Sample ID** | : | **NA** | **Matrix** | : | **WATER** |
| **Lab Sample ID** | : | **L2474304-02** | | | |
| **Matrix Spike** | : | **WG2010915-7** | **MS Analysis Date** | : | **12/19/24 22:49** |
| **Matrix Spike Dup** | : | | **MSD Analysis Date** | : | |

| Parameter | Sample Conc. (mg/l) | Matrix Spike Sample Spike Added (mg/l) | Matrix Spike Sample Spike Conc. (mg/l) | Matrix Spike Sample %R | Matrix Spike Duplicate Spike Added (mg/l) | Matrix Spike Duplicate Spike Conc. (mg/l) | Matrix Spike Duplicate %R | RPD | Recovery Limits | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | ND | 2 | 2.25 | 112 | | | | | 75-125 | 20 |
| Antimony, Total | ND | 0.5 | 0.542 | 108 | | | | | 75-125 | 20 |
| Arsenic, Total | ND | 0.12 | 0.128 | 107 | | | | | 75-125 | 20 |
| Barium, Total | 0.038 | 2 | 2.14 | 105 | | | | | 75-125 | 20 |
| Beryllium, Total | ND | 0.05 | 0.0520 | 104 | | | | | 75-125 | 20 |
| Cadmium, Total | ND | 0.053 | 0.0552 | 104 | | | | | 75-125 | 20 |
| Calcium, Total | 43.4 | 10 | 53.7 | 103 | | | | | 75-125 | 20 |
| Chromium, Total | ND | 0.2 | 0.193 | 96 | | | | | 75-125 | 20 |
| Cobalt, Total | ND | 0.5 | 0.537 | 107 | | | | | 75-125 | 20 |
| Copper, Total | ND | 0.25 | 0.260 | 104 | | | | | 75-125 | 20 |
| Iron, Total | 0.016J | 1 | 1.08 | 108 | | | | | 75-125 | 20 |
| Lead, Total | ND | 0.53 | 0.563 | 106 | | | | | 75-125 | 20 |
| Magnesium, Total | 5.57 | 10 | 15.3 | 97 | | | | | 75-125 | 20 |
| Manganese, Total | 0.102 | 0.5 | 0.597 | 99 | | | | | 75-125 | 20 |
| Nickel, Total | ND | 0.5 | 0.504 | 101 | | | | | 75-125 | 20 |
| Potassium, Total | 7.92 | 10 | 18.7 | 108 | | | | | 75-125 | 20 |
| Selenium, Total | ND | 0.12 | 0.133 | 111 | | | | | 75-125 | 20 |
| Silver, Total | ND | 0.05 | 0.0521 | 104 | | | | | 75-125 | 20 |
| Sodium, Total | 104 | 10 | 115. | 110 | | | | | 75-125 | 20 |
| Thallium, Total | ND | 0.12 | 0.123 | 102 | | | | | 75-125 | 20 |
| Vanadium, Total | ND | 0.5 | 0.481 | 96 | | | | | 75-125 | 20 |
| Zinc, Total | 0.019 | 0.5 | 0.557 | 108 | | | | | 75-125 | 20 |

# Form 5a
# Matrix Spike

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Client Sample ID** | : NA | **Matrix** | : WATER |
| **Lab Sample ID** | : L2473927-01 | | |
| **Matrix Spike** | : WG2012440-3 | **MS Analysis Date** | : 12/23/24 10:17 |
| **Matrix Spike Dup** | : | **MSD Analysis Date** | : |

| Parameter | Sample Conc. (mg/l) | Matrix Spike Sample Spike Added (mg/l) | Matrix Spike Sample Spike Conc. (mg/l) | Matrix Spike Sample %R | | Matrix Spike Duplicate Spike Added (mg/l) | Matrix Spike Duplicate Spike Conc. (mg/l) | Matrix Spike Duplicate %R | RPD | Recovery Limits | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Dissolved | ND | 2 | 2.20 | 110 | | | | | | 75-125 | 20 |
| Antimony, Dissolved | ND | 0.5 | 0.450 | 90 | | | | | | 75-125 | 20 |
| Arsenic, Dissolved | ND | 0.12 | 0.121 | 101 | | | | | | 75-125 | 20 |
| Barium, Dissolved | 0.260 | 2 | 2.33 | 104 | | | | | | 75-125 | 20 |
| Beryllium, Dissolved | ND | 0.05 | 0.0503 | 101 | | | | | | 75-125 | 20 |
| Cadmium, Dissolved | ND | 0.053 | 0.0520 | 98 | | | | | | 75-125 | 20 |
| Calcium, Dissolved | 43.3 | 10 | 52.7 | 94 | | | | | | 75-125 | 20 |
| Chromium, Dissolved | ND | 0.2 | 0.199 | 100 | | | | | | 75-125 | 20 |
| Cobalt, Dissolved | ND | 0.5 | 0.495 | 99 | | | | | | 75-125 | 20 |
| Copper, Dissolved | 0.024 | 0.25 | 0.284 | 104 | | | | | | 75-125 | 20 |
| Iron, Dissolved | ND | 1 | 0.988 | 99 | | | | | | 75-125 | 20 |
| Lead, Dissolved | ND | 0.53 | 0.554 | 104 | | | | | | 75-125 | 20 |
| Magnesium, Dissolved | 5.23 | 10 | 15.0 | 98 | | | | | | 75-125 | 20 |
| Manganese, Dissolved | ND | 0.5 | 0.489 | 98 | | | | | | 75-125 | 20 |
| Nickel, Dissolved | ND | 0.5 | 0.481 | 96 | | | | | | 75-125 | 20 |
| Potassium, Dissolved | 1.54J | 10 | 12.9 | 129 | Q | | | | | 75-125 | 20 |
| Selenium, Dissolved | ND | 0.12 | 0.121 | 101 | | | | | | 75-125 | 20 |
| Silver, Dissolved | ND | 0.05 | 0.0519 | 104 | | | | | | 75-125 | 20 |
| Sodium, Dissolved | 13.3 | 10 | 24.5 | 112 | | | | | | 75-125 | 20 |
| Thallium, Dissolved | ND | 0.12 | 0.127 | 106 | | | | | | 75-125 | 20 |
| Vanadium, Dissolved | ND | 0.5 | 0.528 | 106 | | | | | | 75-125 | 20 |
| Zinc, Dissolved | 0.020 | 0.5 | 0.492 | 94 | | | | | | 75-125 | 20 |

# Form 5a
# Matrix Spike

| | | | | | |
|---|---|---|---|---|---|
| Client | : | Roux Env. Eng. & Geology, DPC | Lab Number | : | L2474329 |
| Project Name | : | CORAM MATERIALS | Project Number | : | 2232.0006Y005 |
| Client Sample ID | : | NA | Matrix | : | WATER |
| Lab Sample ID | : | L2473893-07 | | | |
| Matrix Spike | : | WG2012440-7 | MS Analysis Date | : | 12/23/24 11:20 |
| Matrix Spike Dup | : | | MSD Analysis Date | : | |

| | | Matrix Spike Sample | | | Matrix Spike Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Parameter | Sample Conc. (mg/l) | Spike Added (mg/l) | Spike Conc. (mg/l) | %R | Spike Added (mg/l) | Spike Conc. (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
| Aluminum, Dissolved | ND | 2 | 2.26 | 113 | | | | | 75-125 | 20 |
| Antimony, Dissolved | ND | 0.5 | 0.435 | 87 | | | | | 75-125 | 20 |
| Arsenic, Dissolved | 0.0040J | 0.12 | 0.126 | 105 | | | | | 75-125 | 20 |
| Barium, Dissolved | 0.0034J | 2 | 2.12 | 106 | | | | | 75-125 | 20 |
| Beryllium, Dissolved | ND | 0.05 | 0.0519 | 104 | | | | | 75-125 | 20 |
| Cadmium, Dissolved | ND | 0.053 | 0.0543 | 102 | | | | | 75-125 | 20 |
| Calcium, Dissolved | 18.2 | 10 | 27.8 | 96 | | | | | 75-125 | 20 |
| Chromium, Dissolved | ND | 0.2 | 0.206 | 103 | | | | | 75-125 | 20 |
| Cobalt, Dissolved | ND | 0.5 | 0.512 | 102 | | | | | 75-125 | 20 |
| Copper, Dissolved | ND | 0.25 | 0.270 | 108 | | | | | 75-125 | 20 |
| Iron, Dissolved | 0.0098J | 1 | 1.05 | 105 | | | | | 75-125 | 20 |
| Lead, Dissolved | ND | 0.53 | 0.561 | 106 | | | | | 75-125 | 20 |
| Magnesium, Dissolved | 6.54 | 10 | 16.6 | 101 | | | | | 75-125 | 20 |
| Manganese, Dissolved | 0.0174 | 0.5 | 0.521 | 101 | | | | | 75-125 | 20 |
| Nickel, Dissolved | ND | 0.5 | 0.500 | 100 | | | | | 75-125 | 20 |
| Potassium, Dissolved | 1.61J | 10 | 13.2 | 132 Q | | | | | 75-125 | 20 |
| Selenium, Dissolved | ND | 0.12 | 0.127 | 106 | | | | | 75-125 | 20 |
| Silver, Dissolved | ND | 0.05 | 0.0535 | 107 | | | | | 75-125 | 20 |
| Sodium, Dissolved | 17.3 | 10 | 28.4 | 111 | | | | | 75-125 | 20 |
| Thallium, Dissolved | ND | 0.12 | 0.131 | 109 | | | | | 75-125 | 20 |
| Vanadium, Dissolved | ND | 0.5 | 0.544 | 109 | | | | | 75-125 | 20 |
| Zinc, Dissolved | 0.013 | 0.5 | 0.514 | 100 | | | | | 75-125 | 20 |

# Form 6
# Lab Duplicates

| | | | | |
|---|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | | Project Number | : 2232.0006Y005 |
| Client Sample ID | : NA | | Matrix | : WATER |
| Lab Sample ID | : NA | | Analysis Date | : 12/19/24 20:36 |
| Dup Sample ID | : WG2010915-4 | | DUP Analysis Date | : 12/19/24 20:49 |

| Parameter | Sample Concentration (mg/l) | Duplicate Concentration (mg/l) | RPD | RPD Limit |
|---|---|---|---|---|
| Vanadium, Total | 0.0104 | 0.0099J | NC | 20 |

# Form 6
# Lab Duplicates

| | | | | |
|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | | **Project Number** | : 2232.0006Y005 |
| **Client Sample ID** | : NA | | **Matrix** | : WATER |
| **Lab Sample ID** | : NA | | **Analysis Date** | : 12/19/24 22:42 |
| **Dup Sample ID** | : WG2010915-8 | | **DUP Analysis Date** | : 12/19/24 22:55 |

| Parameter | Sample Concentration (mg/l) | Duplicate Concentration (mg/l) | RPD | RPD Limit |
|---|---|---|---|---|
| Vanadium, Total | ND | ND | NC | 20 |

# Form 6
# Lab Duplicates

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Client Sample ID** | : NA | **Matrix** | : WATER |
| **Lab Sample ID** | : NA | **Analysis Date** | : 12/23/24 10:13 |
| **Dup Sample ID** | : WG2012440-4 | **DUP Analysis Date** | : 12/23/24 10:22 |

| Parameter | Sample Concentration (mg/l) | Duplicate Concentration (mg/l) | RPD | RPD Limit |
|---|---|---|---|---|
| Calcium, Dissolved | 43.3 | 44.1 | 2 | 20 |
| Iron, Dissolved | ND | ND | NC | 20 |
| Magnesium, Dissolved | 5.23 | 5.30 | 1 | 20 |

# Form 6
# Lab Duplicates

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Client Sample ID** | : NA | **Matrix** | : WATER |
| **Lab Sample ID** | : NA | **Analysis Date** | : 12/23/24 11:16 |
| **Dup Sample ID** | : WG2012440-8 | **DUP Analysis Date** | : 12/23/24 11:25 |

| Parameter | Sample Concentration (mg/l) | Duplicate Concentration (mg/l) | RPD | RPD Limit |
|---|---|---|---|---|
| Antimony, Dissolved | ND | ND | NC | 20 |
| Arsenic, Dissolved | 0.0040J | 0.0033J | NC | 20 |
| Barium, Dissolved | 0.0034J | 0.0034J | NC | 20 |
| Calcium, Dissolved | 18.2 | 18.1 | 1 | 20 |
| Chromium, Dissolved | ND | ND | NC | 20 |
| Copper, Dissolved | ND | ND | NC | 20 |
| Iron, Dissolved | 0.0098J | ND | NC | 20 |
| Lead, Dissolved | ND | ND | NC | 20 |
| Magnesium, Dissolved | 6.54 | 6.51 | 0 | 20 |
| Manganese, Dissolved | 0.0174 | 0.0173 | 1 | 20 |
| Nickel, Dissolved | ND | ND | NC | 20 |

# Form 7
# Laboratory Control Sample

| | | | | |
|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | | **Project Number** | : 2232.0006Y005 |
| **Client Sample ID** | : NA | | **Matrix** | : WATER |
| **Lab Sample ID** | : WG2010915-2 | | **LCS Analysis Date** | : 12/19/24 20:10 |
| **Dup Sample ID** | : | | **LCSD Analysis Date** | : |

| | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Parameter | True (mg/l) | Found (mg/l) | %R | True (mg/l) | Found (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
| Aluminum, Total | 2.00 | 2.26 | 113. | | | | | 85-115 | 20 |
| Antimony, Total | 0.500 | 0.538 | 108. | | | | | 85-115 | 20 |
| Arsenic, Total | 0.120 | 0.122 | 102. | | | | | 85-115 | 20 |
| Barium, Total | 2.00 | 2.23 | 112. | | | | | 85-115 | 20 |
| Beryllium, Total | 0.0500 | 0.0546 | 109. | | | | | 85-115 | 20 |
| Cadmium, Total | 0.0530 | 0.0558 | 105. | | | | | 85-115 | 20 |
| Calcium, Total | 10.0 | 11.1 | 111. | | | | | 85-115 | 20 |
| Chromium, Total | 0.200 | 0.199 | 100. | | | | | 85-115 | 20 |
| Cobalt, Total | 0.500 | 0.551 | 110. | | | | | 85-115 | 20 |
| Copper, Total | 0.250 | 0.276 | 110. | | | | | 85-115 | 20 |
| Iron, Total | 1.00 | 1.05 | 105. | | | | | 85-115 | 20 |
| Lead, Total | 0.530 | 0.580 | 109. | | | | | 85-115 | 20 |
| Magnesium, Total | 10.0 | 10.1 | 101. | | | | | 85-115 | 20 |
| Manganese, Total | 0.500 | 0.530 | 106. | | | | | 85-115 | 20 |
| Nickel, Total | 0.500 | 0.516 | 103. | | | | | 85-115 | 20 |
| Potassium, Total | 10.0 | 11.2 | 112. | | | | | 85-115 | 20 |
| Selenium, Total | 0.120 | 0.131 | 109. | | | | | 85-115 | 20 |
| Silver, Total | 0.0500 | 0.0523 | 105. | | | | | 85-115 | 20 |
| Sodium, Total | 10.0 | 11.3 | 113. | | | | | 85-115 | 20 |
| Thallium, Total | 0.120 | 0.128 | 107. | | | | | 85-115 | 20 |
| Vanadium, Total | 0.500 | 0.508 | 102. | | | | | 85-115 | 20 |
| Zinc, Total | 0.500 | 0.554 | 111. | | | | | 85-115 | 20 |

# Form 7
# Laboratory Control Sample

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Client Sample ID** | : NA | **Matrix** | : WATER |
| **Lab Sample ID** | : WG2012440-2 | **LCS Analysis Date** | : 12/23/24 09:55 |
| **Dup Sample ID** | : | **LCSD Analysis Date** | : |

| | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Parameter | True (mg/l) | Found (mg/l) | %R | True (mg/l) | Found (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
| Aluminum, Dissolved | 2.00 | 2.21 | 110. | | | | | 85-115 | 20 |
| Antimony, Dissolved | 0.500 | 0.427 | 85. | | | | | 85-115 | 20 |
| Arsenic, Dissolved | 0.120 | 0.117 | 98. | | | | | 85-115 | 20 |
| Barium, Dissolved | 2.00 | 2.08 | 104. | | | | | 85-115 | 20 |
| Beryllium, Dissolved | 0.0500 | 0.0504 | 101. | | | | | 85-115 | 20 |
| Cadmium, Dissolved | 0.0530 | 0.0529 | 100. | | | | | 85-115 | 20 |
| Calcium, Dissolved | 10.0 | 9.97 | 100. | | | | | 85-115 | 20 |
| Chromium, Dissolved | 0.200 | 0.202 | 101. | | | | | 85-115 | 20 |
| Cobalt, Dissolved | 0.500 | 0.511 | 102. | | | | | 85-115 | 20 |
| Copper, Dissolved | 0.250 | 0.261 | 104. | | | | | 85-115 | 20 |
| Iron, Dissolved | 1.00 | 1.00 | 100. | | | | | 85-115 | 20 |
| Lead, Dissolved | 0.530 | 0.545 | 103. | | | | | 85-115 | 20 |
| Magnesium, Dissolved | 10.0 | 10.1 | 101. | | | | | 85-115 | 20 |
| Manganese, Dissolved | 0.500 | 0.498 | 100. | | | | | 85-115 | 20 |
| Nickel, Dissolved | 0.500 | 0.496 | 99. | | | | | 85-115 | 20 |
| Potassium, Dissolved | 10.0 | 11.2 | 112. | | | | | 85-115 | 20 |
| Selenium, Dissolved | 0.120 | 0.120 | 100. | | | | | 85-115 | 20 |
| Silver, Dissolved | 0.0500 | 0.0524 | 105. | | | | | 85-115 | 20 |
| Sodium, Dissolved | 10.0 | 11.3 | 113. | | | | | 85-115 | 20 |
| Thallium, Dissolved | 0.120 | 0.127 | 106. | | | | | 85-115 | 20 |
| Vanadium, Dissolved | 0.500 | 0.528 | 106. | | | | | 85-115 | 20 |
| Zinc, Dissolved | 0.500 | 0.491 | 98. | | | | | 85-115 | 20 |

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: ____________

Lab Code: AAL Case No.: ________ NRAS No.: ________ SDG No.: ______

ICP-AES Instrument: TRACE4 Date: 12/01/16

| Analyte | Wave-length (nm) | Interelement Correction Factors for: Al | Ca | Fe | Mg | __ |
|---|---|---|---|---|---|---|
| Aluminum | 396.15 | 0.0000000 | 0.0000020 | -0.0000310 | -0.0000090 | |
| Antimony | 206.83 | -0.0000020 | 0.0000040 | -0.0000110 | -0.0000050 | |
| Arsenic | 189.04 | 0.0000090 | -0.0000010 | -0.0000700 | 0.0000000 | |
| Barium | 455.40 | -0.0000040 | -0.0000020 | -0.0000110 | -0.0000010 | |
| Beryllium | 313.40 | -0.0000020 | -0.0000020 | -0.0000050 | 0.0000000 | |
| Cadmium | 214.44 | 0.0000000 | -0.0000030 | 0.0000000 | -0.0000010 | |
| Calcium | 315.89 | 0.0000780 | 0.0000000 | -0.0000170 | 0.0000710 | |
| Chromium | 267.72 | 0.0000050 | -0.0000020 | 0.0000120 | 0.0000000 | |
| Cobalt | 228.62 | -0.0000120 | -0.0000060 | -0.0000250 | -0.0000020 | |
| Copper | 324.75 | -0.0000030 | -0.0000020 | -0.0000040 | 0.0000110 | |
| Iron | 259.94 | 0.0000180 | -0.0000120 | 0.0000000 | -0.0000030 | |
| Lead | 220.35 | 0.0001100 | -0.0000010 | 0.0000180 | -0.0000010 | |
| Magnesium | 279.08 | -0.0000540 | -0.0000280 | 0.0000190 | 0.0000000 | |
| Manganese | 257.61 | -0.0000030 | -0.0000020 | -0.0000080 | 0.0000020 | |
| Mercury | | | | | | |
| Nickel | 231.60 | -0.0000130 | -0.0000050 | -0.0000240 | -0.0000020 | |
| Potassium | 766.49 | -0.0012590 | -0.0007040 | -0.0028490 | -0.0002350 | |
| Selenium | 196.09 | -0.0000200 | 0.0000000 | -0.0000290 | -0.0000010 | |
| Silver | 328.07 | -0.0000040 | -0.0000020 | -0.0000090 | -0.0000010 | |
| Sodium | 589.59 | -0.0006160 | -0.0005220 | -0.0020960 | -0.0001600 | |
| Thallium | 190.86 | -0.0000060 | -0.0000040 | -0.0000050 | -0.0000010 | |
| Vanadium | 292.40 | -0.0000050 | -0.0000030 | 0.0000100 | -0.0000020 | |
| Zinc | 206.20 | 0.0002750 | 0.0000030 | -0.0007990 | -0.0000040 | |
| | | | | | | |
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| | | | | | | |

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 |
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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 |
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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 |
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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 | | | | | |
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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 |
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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 | | |
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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 |
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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 |
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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 | | | | | |
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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 |
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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 | | |
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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 |
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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 |
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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 |
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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 |
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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 | | |
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Comments:

| EPA 200.7, EPA 6010D | | Linear Dynamic Range<br>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** | : | **L2474329** |
| **Project Name** | : | **CORAM MATERIALS** | **Project Number** | : | **2232.0006Y005** |
| **Matrix** | : | **WATER** | **Prep Method** | : | **EPA 3005A** |

| Sample Number | Preparation Date | Weight (gram) | Volume (mL) |
|---|---|---|---|
| L2474329-01 | 12/18/24 18:46 | - | 50 |
| L2474329-02 | 12/18/24 18:46 | - | 50 |
| L2474329-03 | 12/18/24 18:46 | - | 50 |
| L2474329-04 | 12/18/24 18:46 | - | 50 |
| L2474329-05 | 12/18/24 18:46 | - | 50 |
| WG2010915-1 | 12/18/24 18:46 | - | 50 |
| WG2010915-2 | 12/18/24 18:46 | - | 50 |
| WG2010915-3 | 12/18/24 18:46 | - | 50 |
| WG2010915-4 | 12/18/24 18:46 | - | 50 |
| WG2010915-7 | 12/18/24 18:46 | - | 50 |
| WG2010915-8 | 12/18/24 18:46 | - | 50 |

# Form 12
# Preparation Log

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|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Matrix** | : **WATER** | **Prep Method** | : **EPA 3005A** |

| Sample Number | Preparation Date | Weight (gram) | Volume (mL) |
|---|---|---|---|
| L2474329-01 | 12/22/24 17:51 | - | 50 |
| L2474329-02 | 12/22/24 17:51 | - | 50 |
| L2474329-03 | 12/22/24 17:51 | - | 50 |
| L2474329-04 | 12/22/24 17:51 | - | 50 |
| L2474329-05 | 12/22/24 17:51 | - | 50 |
| WG2012440-1 | 12/22/24 17:51 | - | 50 |
| WG2012440-2 | 12/22/24 17:51 | - | 50 |
| WG2012440-3 | 12/22/24 17:51 | - | 50 |
| WG2012440-4 | 12/22/24 17:51 | - | 50 |
| WG2012440-7 | 12/22/24 17:51 | - | 50 |
| WG2012440-8 | 12/22/24 17:51 | - | 50 |

# Form 13
# Analysis Run Log

| | | | | | |
|---|---|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | | Lab Number | : | L2474329 |
| Project Name | : CORAM MATERIALS | | Project Number | : | 2232.0006Y005 |
| Instrument ID | : TRACE6 | | Analysis Method | : | 19,200.7 |
| Start Date | : 12/19/24 09:24 | | End Date | : | 12/20/24 00:14 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R1913490-1 ICV | 1 | 09:24:23 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-2 ICB | 1 | 09:30:48 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-3 ICV | 1 | 09:37:35 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-4 ICB | 1 | 09:44:03 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-5 ICSA | 1 | 09:57:34 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-6 CCV | 1 | 12:02:48 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-7 CCB | 1 | 12:09:14 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-8 CCV | 1 | 13:44:04 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-9 CCB | 1 | 13:50:30 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-10 CCV | 1 | 14:29:21 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-11 CCB | 1 | 14:35:46 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-12 CCV | 1 | 16:13:30 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-13 CCB | 1 | 16:19:55 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-14 CCV | 1 | 17:40:06 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-15 CCB | 1 | 17:46:59 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-16 CCV | 1 | 19:13:33 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-17 CCB | 1 | 19:19:58 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| WG2010915-1 BLANK | 1 | 20:03:49 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| WG2010915-2 LCS | 1 | 20:10:33 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| WG2010915-3 MS | 1 | 20:43:30 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| WG2010915-4 DUP | 1 | 20:49:51 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-18 CCV | 1 | 21:09:30 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-19 CCB | 1 | 21:15:56 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-20 CCV | 1 | 21:50:36 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-21 CCB | 1 | 21:57:01 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| L2474329-01 | 1 | 22:35:45 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| WG2010915-7 MS | 1 | 22:49:07 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |

# Form 13
# Analysis Run Log

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | | **Lab Number** | : | L2474329 |
| **Project Name** | : CORAM MATERIALS | | **Project Number** | : | 2232.0006Y005 |
| **Instrument ID** | : TRACE6 | | **Analysis Method** | : | 19,200.7 |
| **Start Date** | : 12/19/24 09:24 | | **End Date** | : | 12/20/24 00:14 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WG2010915-8 DUP | 1 | 22:55:32 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-22 CCV | 1 | 23:15:18 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-23 CCB | 1 | 23:21:44 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| L2474329-02 | 1 | 23:28:31 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| L2474329-03 | 1 | 23:35:11 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| L2474329-04 | 1 | 23:41:52 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| L2474329-05 | 1 | 23:48:32 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-24 CCV | 1 | 23:55:17 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-25 CCB | 1 | 00:01:43 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-26 CCV | 1 | 00:08:30 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1913490-27 CCB | 1 | 00:14:55 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |

# Form 13
# Analysis Run Log

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : TRACE8 | Analysis Method | : 19,200.7 |
| Start Date | : 12/23/24 05:44 | End Date | : 12/23/24 14:41 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R1914581-1 ICV | 1 | 05:44:27 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-2 ICB | 1 | 05:48:51 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-3 ICV | 1 | 05:56:34 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-4 ICB | 1 | 06:01:07 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-5 ICSA | 1 | 06:09:56 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-6 CCV | 1 | 07:33:07 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-7 CCB | 1 | 07:37:38 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-8 CCV | 1 | 08:34:10 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-9 CCB | 1 | 08:38:34 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-10 CCV | 1 | 09:33:00 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-11 CCB | 1 | 09:37:31 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| WG2012440-1 BLANK | 1 | 09:51:21 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| WG2012440-2 LCS | 1 | 09:55:58 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| WG2012440-3 MS | 1 | 10:17:59 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| WG2012440-4 DUP | 1 | 10:22:23 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-12 CCV | 1 | 10:35:37 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-13 CCB | 1 | 10:40:01 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-14 CCV | 1 | 10:45:39 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-15 CCB | 1 | 10:50:07 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| WG2012440-7 MS | 1 | 11:20:55 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| WG2012440-8 DUP | 1 | 11:25:23 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-16 CCV | 1 | 11:38:38 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-17 CCB | 1 | 11:43:03 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-18 CCV | 1 | 12:34:05 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-19 CCB | 1 | 12:38:30 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-20 CCV | 1 | 12:43:37 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-21 CCB | 1 | 12:48:02 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |

# Form 13
# Analysis Run Log

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | | **Lab Number** | : | L2474329 |
| **Project Name** | : CORAM MATERIALS | | **Project Number** | : | 2232.0006Y005 |
| **Instrument ID** | : TRACE8 | | **Analysis Method** | : | 19,200.7 |
| **Start Date** | : 12/23/24 05:44 | | **End Date** | : | 12/23/24 14:41 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R1914581-22 CCV | 1 | 13:42:25 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-23 CCB | 1 | 13:46:50 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| L2474329-01 | 1 | 14:14:30 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| L2474329-02 | 1 | 14:18:56 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| L2474329-03 | 1 | 14:23:25 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| L2474329-04 | 1 | 14:27:52 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| L2474329-05 | 1 | 14:32:19 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-24 CCV | 1 | 14:36:46 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| R1914581-25 CCB | 1 | 14:41:11 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |

**Date Created:** 11/04/16
**Created By:** Jason Hebert
**File:** PM2960-2
**Page:** 1

**METALS by 200.7, 6010C (WATER)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Surrogate Criteria | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 7429-90-5 | 0.1 | 0.0318 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Antimony | 7440-36-0 | 0.05 | 0.0071 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Arsenic | 7440-38-2 | 0.005 | 0.0019 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Barium | 7440-39-3 | 0.01 | 0.0021 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Beryllium | 7440-41-7 | 0.005 | 0.0009 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Cadmium | 7440-43-9 | 0.005 | 0.001 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Calcium | 7440-70-2 | 0.1 | 0.035 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Chromium | 7440-47-3 | 0.01 | 0.0021 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Cobalt | 7440-48-4 | 0.02 | 0.0017 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Copper | 7440-50-8 | 0.01 | 0.0022 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Iron | 7439-89-6 | 0.05 | 0.009 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Lead | 7439-92-1 | 0.01 | 0.0027 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Magnesium | 7439-95-4 | 0.1 | 0.0153 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Manganese | 7439-96-5 | 0.01 | 0.0016 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Nickel | 7440-02-0 | 0.025 | 0.0024 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Potassium | 7440-09-7 | 2.5 | 0.237 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Selenium | 7782-49-2 | 0.01 | 0.0035 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Silver | 7440-22-4 | 0.007 | 0.0028 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Sodium | 7440-23-5 | 2 | 0.12 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Thallium | 7440-28-0 | 0.02 | 0.0025 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Vanadium | 7440-62-2 | 0.01 | 0.002 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |
| Zinc | 7440-66-6 | 0.05 | 0.0021 | mg/l | 85-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Plastic 500ml HNO3 preserved |

***Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)***

***Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory.***

**Date Created:** 11/04/16
**Created By:** Jason Hebert
**File:** PM2962-1
**Page:** 1

**METALS by 6010C (SOIL)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Surrogate Criteria | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 7429-90-5 | 4 | 1.08 | mg/kg | 48-151 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Antimony, Total | 7440-36-0 | 2 | 0.152 | mg/kg | 1-208 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Arsenic, Total | 7440-38-2 | 0.4 | 0.0832 | mg/kg | 79-121 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Barium, Total | 7440-39-3 | 0.4 | 0.0696 | mg/kg | 83-117 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Beryllium, Total | 7440-41-7 | 0.2 | 0.0132 | mg/kg | 83-117 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Cadmium, Total | 7440-43-9 | 0.4 | 0.0392 | mg/kg | 83-117 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Calcium, Total | 7440-70-2 | 4 | 1.4 | mg/kg | 81-119 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Chromium, Total | 7440-47-3 | 0.4 | 0.0384 | mg/kg | 80-120 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Cobalt, Total | 7440-48-4 | 0.8 | 0.0664 | mg/kg | 84-115 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Copper, Total | 7440-50-8 | 0.4 | 0.1032 | mg/kg | 81-118 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Iron, Total | 7439-89-6 | 2 | 0.3612 | mg/kg | 45-155 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Lead, Total | 7439-92-1 | 2 | 0.1072 | mg/kg | 81-117 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Magnesium, Total | 7439-95-4 | 4 | 0.616 | mg/kg | 76-124 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Manganese, Total | 7439-96-5 | 0.4 | 0.0636 | mg/kg | 81-117 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Nickel, Total | 7440-02-0 | 1 | 0.0968 | mg/kg | 83-117 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Potassium, Total | 7440-09-7 | 100 | 5.76 | mg/kg | 71-129 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Selenium, Total | 7782-49-2 | 0.8 | 0.1032 | mg/kg | 78-122 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Silver, Total | 7440-22-4 | 0.4 | 0.1132 | mg/kg | 75-124 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Sodium, Total | 7440-23-5 | 80 | 1.26 | mg/kg | 72-127 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Thallium, Total | 7440-28-0 | 0.8 | 0.126 | mg/kg | 80-120 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Vanadium, Total | 7440-62-2 | 0.4 | 0.0812 | mg/kg | 78-122 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |
| Zinc, Total | 7440-66-6 | 2 | 0.1172 | mg/kg | 82-118 | | 75-125 | 20 | 20 | | 180 days | 1 - Metals Only - Glass 60mL/2oz unpreserved |

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

# ICP DataTrace 6
12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: Blank JMF Trace6
Analysis started at: 12/19/2024 9:03:39 AM
Rack: 0
Vial: 1

| | Ag 328.068 {103} (Axial) | Al 396.152 {85} (Radial) | As 189.042 {478} (Axial) | B 208.959 {461} (Axial) | Ba 455.403 {74} (Radial) | Be 313.042 {108} (Radial) | Ca 315.887 {107} (Radial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm |
| Concentration per Run | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm |
| Concentration RSD | -0.2 % | 1.2 % | 1.0 % | 0.5 % | 0.1 % | 1.0 % | 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 | 0.0000 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 | -3.2 % | -5.4 % | 0.0 % | 0.0 % | 1.1 % | 0.1 % | -17.2 % |

| | 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 | 0.3 % | 0.4 % | -0.7 % | -0.1 % | -0.1 % | -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 | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm |
| Concentration per Run | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm |
| Concentration RSD | 0.1 % | 0.2 % | -0.3 % | -0.1 % | -0.1 % | -4.2 % | 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 % | 0.1 % | 0.0 % | 0.0 % | -1.6 % |

LabBook: WG2011242_12192024T6.imexp

Sample: ICAL
Analysis started at: 12/19/2024 9:10:23 AM
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 | 1.0013 ppm | 25.3378 ppm | 1.0113 ppm | 1.0122 ppm | 1.0143 ppm | 1.0123 ppm | 10.0712 ppm |
| Concentration per Run 2 | 0.9980 ppm | 24.8636 ppm | 1.0041 ppm | 1.0026 ppm | 0.9937 ppm | 0.9948 ppm | 9.9777 ppm |
| Concentration per Run 3 | 1.0007 ppm | 24.7986 ppm | 0.9847 ppm | 0.9852 ppm | 0.9920 ppm | 0.9928 ppm | 9.9511 ppm |
| Concentration RSD | 0.2 % | 1.2 % | 1.4 % | 1.4 % | 1.2 % | 1.1 % | 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 | 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 | 1.0101 ppm | 1.0114 ppm | 0.9986 ppm | 1.0023 ppm | 25.2512 ppm | 35.3675 ppm | 10.0089 ppm |
| Concentration per Run 2 | 1.0088 ppm | 1.0054 ppm | 1.0011 ppm | 0.9954 ppm | 24.9063 ppm | 34.9111 ppm | 9.9950 ppm |
| Concentration per Run 3 | 0.9811 ppm | 0.9832 ppm | 1.0003 ppm | 1.0023 ppm | 24.8425 ppm | 34.7214 ppm | 9.9961 ppm |
| Concentration RSD | 1.6 % | 1.5 % | 0.1 % | 0.4 % | 0.9 % | 0.9 % | 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 | 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 | 1.0113 ppm | 1.0069 ppm | 25.3181 ppm | 1.0113 ppm | 1.0098 ppm | 1.0123 ppm | 1.0147 ppm |
| Concentration per Run 2 | 0.9951 ppm | 1.0071 ppm | 24.8646 ppm | 1.0059 ppm | 1.0075 ppm | 1.0041 ppm | 1.0000 ppm |
| Concentration per Run 3 | 0.9936 ppm | 0.9860 ppm | 24.8173 ppm | 0.9828 ppm | 0.9827 ppm | 0.9836 ppm | 0.9853 ppm |
| Concentration RSD | 1.0 % | 1.2 % | 1.1 % | 1.5 % | 1.5 % | 1.5 % | 1.5 % |

| | 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 | 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 | 10.1197 ppm | 1.0093 ppm | 1.0144 ppm | 0.9991 ppm | 1.0115 ppm | 1.0002 ppm | 1.0102 ppm |
| Concentration per Run 2 | 10.0341 ppm | 1.0083 ppm | 0.9942 ppm | 1.0002 ppm | 1.0037 ppm | 1.0007 ppm | 1.0099 ppm |
| Concentration per Run 3 | 9.8461 ppm | 0.9824 ppm | 0.9913 ppm | 1.0007 ppm | 0.9848 ppm | 0.9990 ppm | 0.9799 ppm |
| Concentration RSD | 1.4 % | 1.5 % | 1.3 % | 0.1 % | 1.4 % | 0.1 % | 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 | 97.9020 % | 97.8702 % | 100.9268 % | 109.4068 % | 94.1580 % | 100.2683 % | 1.0000 ppm |
| Concentration per Run 1 | 97.9700 % | 97.8561 % | 100.1185 % | 108.7564 % | 93.1240 % | 100.3090 % | 1.0148 ppm |
| Concentration per Run 2 | 97.9502 % | 98.1366 % | 100.9175 % | 109.9031 % | 94.0502 % | 100.5558 % | 0.9941 ppm |
| Concentration per Run 3 | 97.7858 % | 97.6180 % | 101.7444 % | 109.5610 % | 95.2998 % | 99.9402 % | 0.9911 ppm |
| Concentration RSD | 0.1 % | 0.3 % | 0.8 % | 0.5 % | 1.2 % | 0.3 % | 1.3 % |

# ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: ICV
Analysis started at: 12/19/2024 9:24:23 AM
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 | 0.4711 ppm | 0.4893 ppm | 0.4731 ppm | 0.4741 ppm | 0.4815 ppm | 0.5087 ppm | 0.5093 ppm |
| Concentration per Run 1 | 0.4716 ppm | 0.4997 ppm | 0.4732 ppm | 0.4759 ppm | 0.4919 ppm | 0.5202 ppm | 0.5163 ppm |
| Concentration per Run 2 | 0.4712 ppm | 0.4878 ppm | 0.4677 ppm | 0.4690 ppm | 0.4769 ppm | 0.5050 ppm | 0.5150 ppm |
| Concentration per Run 3 | 0.4706 ppm | 0.4803 ppm | 0.4783 ppm | 0.4774 ppm | 0.4758 ppm | 0.5008 ppm | 0.4965 ppm |
| Recovery Percentage 1 | 94.222 % | 97.851 % | 94.611 % | 94.824 % | 96.307 % | 101.741 % | 101.852 % |
| Concentration RSD | 0.1 % | 2.0 % | 1.1 % | 0.9 % | 1.9 % | 2.0 % | 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 | 0.4779 ppm | 0.4918 ppm | 0.4895 ppm | 0.4714 ppm | 0.5113 ppm | 5.1311 ppm | 0.4931 ppm |
| Concentration per Run 1 | 0.4799 ppm | 0.4946 ppm | 0.4897 ppm | 0.4706 ppm | 0.5248 ppm | 5.2629 ppm | 0.4946 ppm |
| Concentration per Run 2 | 0.4726 ppm | 0.4865 ppm | 0.4876 ppm | 0.4724 ppm | 0.5066 ppm | 5.0926 ppm | 0.4914 ppm |
| Concentration per Run 3 | 0.4812 ppm | 0.4942 ppm | 0.4913 ppm | 0.4712 ppm | 0.5025 ppm | 5.0378 ppm | 0.4932 ppm |
| Recovery Percentage 1 | 95.579 % | 98.350 % | 97.906 % | 94.277 % | 102.259 % | 102.623 % | 98.614 % |
| Concentration RSD | 1.0 % | 0.9 % | 0.4 % | 0.2 % | 2.3 % | 2.3 % | 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 | 0.4935 ppm | 0.4781 ppm | 9.9142 ppm | 0.4910 ppm | 0.4913 ppm | 0.4922 ppm | 0.4829 ppm |
| Concentration per Run 1 | 0.5054 ppm | 0.4791 ppm | 10.1220 ppm | 0.4937 ppm | 0.4942 ppm | 0.4939 ppm | 0.4820 ppm |
| Concentration per Run 2 | 0.4888 ppm | 0.4723 ppm | 9.8229 ppm | 0.4853 ppm | 0.4853 ppm | 0.4871 ppm | 0.4801 ppm |
| Concentration per Run 3 | 0.4864 ppm | 0.4828 ppm | 9.7978 ppm | 0.4941 ppm | 0.4943 ppm | 0.4957 ppm | 0.4865 ppm |
| Recovery Percentage 1 | 98.703 % | 95.613 % | 99.142 % | 98.207 % | 98.250 % | 98.448 % | 96.573 % |
| Concentration RSD | 2.1 % | 1.1 % | 1.8 % | 1.0 % | 1.1 % | 0.9 % | 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 | 5.4887 ppm | 0.4840 ppm | 0.5032 ppm | 0.4948 ppm | 0.4952 ppm | 0.4855 ppm | 0.4874 ppm |
| Concentration per Run 1 | 5.5202 ppm | 0.4853 ppm | 0.5145 ppm | 0.4946 ppm | 0.4970 ppm | 0.4859 ppm | 0.4901 ppm |
| Concentration per Run 2 | 5.4251 ppm | 0.4805 ppm | 0.4983 ppm | 0.4943 ppm | 0.4884 ppm | 0.4850 ppm | 0.4823 ppm |
| Concentration per Run 3 | 5.5207 ppm | 0.4863 ppm | 0.4967 ppm | 0.4957 ppm | 0.5002 ppm | 0.4856 ppm | 0.4898 ppm |
| Recovery Percentage 1 | 104.546 % | 96.809 % | 100.636 % | 98.965 % | 99.036 % | 97.098 % | 97.483 % |
| Concentration RSD | 1.0 % | 0.6 % | 2.0 % | 0.1 % | 1.2 % | 0.1 % | 0.9 % |

| | 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 | 98.7990 % | 100.2584 % | 102.7310 % | 109.1876 % | 98.6622 % | 102.5384 % | 0.4890 ppm |
| Concentration per Run 1 | 98.1913 % | 100.0725 % | 102.5680 % | 106.7644 % | 98.2804 % | 102.4056 % | 0.4999 ppm |
| Concentration per Run 2 | 98.8141 % | 100.5420 % | 103.3717 % | 110.0893 % | 99.7612 % | 102.6587 % | 0.4832 ppm |
| Concentration per Run 3 | 99.3917 % | 100.1607 % | 102.2532 % | 110.7090 % | 97.9452 % | 102.5509 % | 0.4838 ppm |
| Recovery Percentage 1 | | | | | | | 97.793 % |
| Concentration RSD | 0.6 % | 0.2 % | 0.6 % | 1.9 % | 1.0 % | 0.1 % | 1.9 % |

LabBook: WG2011242_12192024T6.imexp

Sample: ICB
Analysis started at: 12/19/2024 9:30:48 AM
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 | -0.0022 ppm | 0.0009 ppm | 0.0011 ppm | 0.0000 ppm | 0.0000 ppm | -0.0060 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.0000 ppm | 0.0010 ppm | 0.0009 ppm | 0.0001 ppm | 0.0000 ppm | -0.0100 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0055 ppm | 0.0012 ppm | 0.0014 ppm | 0.0000 ppm | -0.0001 ppm | 0.0001 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0012 ppm | 0.0005 ppm | 0.0009 ppm | -0.0001 ppm | 0.0000 ppm | -0.0079 ppm |
| Recovery Percentage 1 | 1.642 % | -2.242 % | 17.875 % | 3.621 % | 0.027 % | -0.311 % | -5.954 % |
| Concentration RSD | 106.5 % | 127.3 % | 36.3 % | 26.4 % | 3,789.2 % | 363.7 % | 89.5 % |

| | 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 | -0.0015 ppm | 0.0147 ppm | -0.0010 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0001 ppm | 0.0000 ppm | -0.0002 ppm | -0.0020 ppm | 0.0281 ppm | -0.0017 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0001 ppm | 0.0003 ppm | -0.0005 ppm | -0.0011 ppm | -0.0012 ppm | -0.0008 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0000 ppm | 0.0001 ppm | -0.0003 ppm | -0.0013 ppm | 0.0173 ppm | -0.0006 ppm |
| Recovery Percentage 1 | 0.535 % | -0.114 % | 1.376 % | -3.328 % | -2.910 % | 0.589 % | -1.035 % |
| Concentration RSD | 174.0 % | 475.7 % | 99.6 % | 34.5 % | 33.0 % | 100.8 % | 56.6 % |

| | 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 | -0.0002 ppm | 0.0007 ppm | -0.0044 ppm | 0.0001 ppm | 0.0007 ppm | 0.0011 ppm | -0.0016 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0008 ppm | -0.0077 ppm | 0.0002 ppm | 0.0012 ppm | 0.0005 ppm | -0.0009 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0009 ppm | 0.0039 ppm | 0.0000 ppm | 0.0004 ppm | 0.0015 ppm | -0.0026 ppm |
| Concentration per Run 3 | -0.0006 ppm | 0.0006 ppm | -0.0095 ppm | 0.0000 ppm | 0.0007 ppm | 0.0013 ppm | -0.0013 ppm |
| Recovery Percentage 1 | -2.139 % | 1.463 % | -0.222 % | 0.319 % | 7.463 % | 2.195 % | -16.259 % |
| Concentration RSD | 157.7 % | 21.1 % | 165.1 % | 177.0 % | 50.8 % | 50.7 % | 55.1 % |

| | 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 | -0.0005 ppm | 0.0000 ppm | 0.0001 ppm | 0.0001 ppm | 0.0009 ppm | 0.0000 ppm | -0.0010 ppm |
| Concentration per Run 1 | 0.0002 ppm | -0.0004 ppm | 0.0001 ppm | 0.0002 ppm | 0.0009 ppm | 0.0000 ppm | -0.0010 ppm |
| Concentration per Run 2 | -0.0008 ppm | 0.0002 ppm | 0.0001 ppm | 0.0001 ppm | -0.0001 ppm | 0.0000 ppm | -0.0009 ppm |
| Concentration per Run 3 | -0.0007 ppm | 0.0001 ppm | 0.0000 ppm | 0.0001 ppm | 0.0018 ppm | 0.0001 ppm | -0.0011 ppm |
| Recovery Percentage 1 | -0.093 % | -0.052 % | 0.781 % | 1.192 % | 4.332 % | 0.490 % | -20.077 % |
| Concentration RSD | 119.5 % | 1,239.2 % | 75.6 % | 50.6 % | 112.0 % | 98.2 % | 9.9 % |

| | 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 | 97.7612 % | 100.4665 % | 103.3804 % | 99.2457 % | 101.9995 % | 100.6839 % | -0.0010 ppm |
| Concentration per Run 1 | 93.9204 % | 100.3572 % | 102.4806 % | 91.6670 % | 100.6677 % | 100.3768 % | -0.0006 ppm |
| Concentration per Run 2 | 99.3501 % | 100.5943 % | 102.5702 % | 101.1809 % | 101.5835 % | 100.8531 % | -0.0014 ppm |
| Concentration per Run 3 | 100.0130 % | 100.4481 % | 105.0903 % | 104.8891 % | 103.7474 % | 100.8218 % | -0.0010 ppm |
| Recovery Percentage 1 | | | | | | | -10.186 % |
| Concentration RSD | 3.4 % | 0.1 % | 1.4 % | 6.9 % | 1.6 % | 0.3 % | 35.9 % |

LabBook: WG2011242_12192024T6.imexp

Sample: ICV
Analysis started at: 12/19/2024 9:37:35 AM
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 | 0.4883 ppm | 0.5033 ppm | 0.4894 ppm | 0.4861 ppm | 0.4923 ppm | 0.5212 ppm | 0.5262 ppm |
| Concentration per Run 1 | 0.4884 ppm | 0.5141 ppm | 0.4910 ppm | 0.4878 ppm | 0.5021 ppm | 0.5312 ppm | 0.5351 ppm |
| Concentration per Run 2 | 0.4887 ppm | 0.4986 ppm | 0.4866 ppm | 0.4847 ppm | 0.4882 ppm | 0.5170 ppm | 0.5187 ppm |
| Concentration per Run 3 | 0.4878 ppm | 0.4971 ppm | 0.4905 ppm | 0.4859 ppm | 0.4865 ppm | 0.5155 ppm | 0.5249 ppm |
| Recovery Percentage 1 | 97.656 % | 100.655 % | 97.879 % | 97.226 % | 98.452 % | 104.246 % | 105.246 % |
| Concentration RSD | 0.1 % | 1.9 % | 0.5 % | 0.3 % | 1.7 % | 1.7 % | 1.6 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.4960 ppm | 0.5083 ppm | 0.5045 ppm | 0.4855 ppm | 0.5223 ppm | 5.2134 ppm | 0.5067 ppm |
| Concentration per Run 1 | 0.4974 ppm | 0.5107 ppm | 0.5048 ppm | 0.4852 ppm | 0.5281 ppm | 5.3246 ppm | 0.5093 ppm |
| Concentration per Run 2 | 0.4955 ppm | 0.5066 ppm | 0.5042 ppm | 0.4871 ppm | 0.5202 ppm | 5.1731 ppm | 0.5071 ppm |
| Concentration per Run 3 | 0.4951 ppm | 0.5074 ppm | 0.5045 ppm | 0.4842 ppm | 0.5187 ppm | 5.1425 ppm | 0.5037 ppm |
| Recovery Percentage 1 | 99.199 % | 101.653 % | 100.901 % | 97.100 % | 104.464 % | 104.268 % | 101.337 % |
| Concentration RSD | 0.2 % | 0.4 % | 0.1 % | 0.3 % | 1.0 % | 1.9 % | 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 | 0.5044 ppm | 0.4944 ppm | 10.3055 ppm | 0.5083 ppm | 0.5066 ppm | 0.5054 ppm | 0.4960 ppm |
| Concentration per Run 1 | 0.5145 ppm | 0.4939 ppm | 10.5025 ppm | 0.5098 ppm | 0.5091 ppm | 0.5077 ppm | 0.4983 ppm |
| Concentration per Run 2 | 0.5007 ppm | 0.4936 ppm | 10.2246 ppm | 0.5070 ppm | 0.5047 ppm | 0.5035 ppm | 0.4926 ppm |
| Concentration per Run 3 | 0.4979 ppm | 0.4958 ppm | 10.1894 ppm | 0.5081 ppm | 0.5060 ppm | 0.5051 ppm | 0.4971 ppm |
| Recovery Percentage 1 | 100.874 % | 98.884 % | 103.055 % | 101.657 % | 101.314 % | 101.087 % | 99.199 % |
| Concentration RSD | 1.8 % | 0.2 % | 1.7 % | 0.3 % | 0.4 % | 0.4 % | 0.6 % |

| | 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 | 5.6874 ppm | 0.5076 ppm | 0.5099 ppm | 0.5083 ppm | 0.5083 ppm | 0.5004 ppm | 0.5057 ppm |
| Concentration per Run 1 | 5.7112 ppm | 0.5097 ppm | 0.5200 ppm | 0.5092 ppm | 0.5111 ppm | 0.5007 ppm | 0.5073 ppm |
| Concentration per Run 2 | 5.6605 ppm | 0.5051 ppm | 0.5055 ppm | 0.5077 ppm | 0.5072 ppm | 0.5000 ppm | 0.5061 ppm |
| Concentration per Run 3 | 5.6905 ppm | 0.5080 ppm | 0.5042 ppm | 0.5080 ppm | 0.5066 ppm | 0.5003 ppm | 0.5036 ppm |
| Recovery Percentage 1 | 108.331 % | 101.524 % | 101.977 % | 101.661 % | 101.665 % | 100.071 % | 101.134 % |
| Concentration RSD | 0.4 % | 0.5 % | 1.7 % | 0.2 % | 0.5 % | 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 | 98.7711 % | 99.6721 % | 102.1495 % | 109.8622 % | 98.0043 % | 102.0418 % | 0.5037 ppm |
| Concentration per Run 1 | 99.0082 % | 99.7106 % | 102.1196 % | 108.1986 % | 97.7850 % | 102.0827 % | 0.5144 ppm |
| Concentration per Run 2 | 99.2006 % | 99.3412 % | 102.7363 % | 110.9893 % | 98.5984 % | 101.6553 % | 0.4989 ppm |
| Concentration per Run 3 | 98.1046 % | 99.9646 % | 101.5927 % | 110.3986 % | 97.6294 % | 102.3873 % | 0.4979 ppm |
| Recovery Percentage 1 | | | | | | | 100.743 % |
| Concentration RSD | 0.6 % | 0.3 % | 0.6 % | 1.3 % | 0.5 % | 0.4 % | 1.8 % |

LabBook: WG2011242_12192024T6.imexp

Sample: ICB
Analysis started at: 12/19/2024 9:44:03 AM
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 | -0.0024 ppm | 0.0010 ppm | 0.0009 ppm | 0.0000 ppm | 0.0000 ppm | -0.0004 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0030 ppm | 0.0005 ppm | 0.0008 ppm | 0.0002 ppm | 0.0000 ppm | 0.0019 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0046 ppm | 0.0014 ppm | 0.0007 ppm | 0.0000 ppm | -0.0001 ppm | 0.0003 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0004 ppm | 0.0009 ppm | 0.0013 ppm | -0.0002 ppm | 0.0000 ppm | -0.0033 ppm |
| Recovery Percentage 1 | -0.053 % | -2.408 % | 19.100 % | 3.092 % | 0.128 % | -0.880 % | -0.376 % |
| Concentration RSD | 2,026.8 % | 105.1 % | 49.6 % | 33.1 % | 1,550.9 % | 73.8 % | 695.5 % |

| | 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 | 0.0000 ppm | -0.0001 ppm | -0.0016 ppm | -0.0094 ppm | -0.0002 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0001 ppm | 0.0000 ppm | -0.0002 ppm | -0.0001 ppm | 0.0027 ppm | 0.0008 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0001 ppm | -0.0001 ppm | -0.0002 ppm | -0.0018 ppm | 0.0051 ppm | -0.0015 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0001 ppm | 0.0001 ppm | -0.0001 ppm | -0.0030 ppm | -0.0361 ppm | 0.0001 ppm |
| Recovery Percentage 1 | -0.195 % | -0.180 % | -0.076 % | -1.492 % | -3.246 % | -0.377 % | -0.177 % |
| Concentration RSD | 218.1 % | 221.4 % | 866.2 % | 58.5 % | 90.0 % | 245.0 % | 652.2 % |

| | 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 | -0.0003 ppm | 0.0007 ppm | -0.0024 ppm | 0.0000 ppm | 0.0006 ppm | 0.0007 ppm | -0.0014 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0008 ppm | -0.0026 ppm | 0.0001 ppm | 0.0005 ppm | 0.0015 ppm | -0.0011 ppm |
| Concentration per Run 2 | -0.0004 ppm | 0.0005 ppm | 0.0013 ppm | -0.0001 ppm | 0.0012 ppm | 0.0002 ppm | -0.0016 ppm |
| Concentration per Run 3 | -0.0004 ppm | 0.0008 ppm | -0.0060 ppm | 0.0002 ppm | 0.0000 ppm | 0.0004 ppm | -0.0013 ppm |
| Recovery Percentage 1 | -2.660 % | 1.411 % | -0.121 % | 0.184 % | 5.833 % | 1.410 % | -13.651 % |
| Concentration RSD | 100.7 % | 22.4 % | 151.8 % | 382.3 % | 102.1 % | 97.2 % | 18.4 % |

| | 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 | -0.0009 ppm | 0.0003 ppm | 0.0000 ppm | 0.0000 ppm | 0.0008 ppm | 0.0000 ppm | -0.0010 ppm |
| Concentration per Run 1 | -0.0007 ppm | 0.0002 ppm | 0.0001 ppm | 0.0000 ppm | 0.0021 ppm | -0.0001 ppm | -0.0012 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0004 ppm | 0.0001 ppm | 0.0002 ppm | 0.0000 ppm | 0.0002 ppm | -0.0009 ppm |
| Concentration per Run 3 | -0.0018 ppm | 0.0002 ppm | 0.0000 ppm | -0.0001 ppm | 0.0002 ppm | -0.0002 ppm | -0.0010 ppm |
| Recovery Percentage 1 | -0.171 % | 0.517 % | 0.312 % | 0.114 % | 3.779 % | -0.484 % | -20.294 % |
| Concentration RSD | 98.8 % | 45.7 % | 174.7 % | 1,304.2 % | 151.8 % | 452.4 % | 12.5 % |

| | 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 | 99.7682 % | 100.6488 % | 103.0853 % | 100.7339 % | 101.5446 % | 100.9150 % | 0.0002 ppm |
| Concentration per Run 1 | 99.5222 % | 101.2040 % | 105.3331 % | 95.5259 % | 103.6166 % | 101.1844 % | 0.0000 ppm |
| Concentration per Run 2 | 99.9994 % | 100.3400 % | 101.7793 % | 102.2796 % | 100.0857 % | 100.5655 % | -0.0003 ppm |
| Concentration per Run 3 | 99.7831 % | 100.4024 % | 102.1435 % | 104.3962 % | 100.9313 % | 100.9952 % | 0.0007 ppm |
| Recovery Percentage 1 | | | | | | | 1.559 % |
| Concentration RSD | 0.2 % | 0.5 % | 1.9 % | 4.6 % | 1.8 % | 0.3 % | 318.2 % |

LabBook: WG2011242_12192024T6.imexp

Sample: LLOQ RL Check
Analysis started at: 12/19/2024 9:50:50 AM
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 | 0.1040 ppm | 0.0066 ppm | 0.0303 ppm | 0.0102 ppm | 0.0054 ppm | 0.1055 ppm |
| Concentration per Run 1 | 0.0054 ppm | 0.1060 ppm | 0.0068 ppm | 0.0302 ppm | 0.0103 ppm | 0.0055 ppm | 0.1105 ppm |
| Concentration per Run 2 | 0.0053 ppm | 0.1032 ppm | 0.0064 ppm | 0.0302 ppm | 0.0102 ppm | 0.0053 ppm | 0.1082 ppm |
| Concentration per Run 3 | 0.0051 ppm | 0.1026 ppm | 0.0067 ppm | 0.0304 ppm | 0.0099 ppm | 0.0052 ppm | 0.0978 ppm |
| Recovery Percentage 1 | 105.303 % | 103.960 % | 132.886 % | 100.883 % | 101.719 % | 107.369 % | 105.486 % |
| Concentration RSD | 2.9 % | 1.7 % | 2.9 % | 0.4 % | 2.0 % | 2.7 % | 6.4 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0041 ppm | 0.0102 ppm | 0.0102 ppm | 0.0098 ppm | 0.0532 ppm | 2.6399 ppm | 0.1036 ppm |
| Concentration per Run 1 | 0.0041 ppm | 0.0101 ppm | 0.0105 ppm | 0.0097 ppm | 0.0555 ppm | 2.7370 ppm | 0.1052 ppm |
| Concentration per Run 2 | 0.0042 ppm | 0.0102 ppm | 0.0100 ppm | 0.0098 ppm | 0.0511 ppm | 2.6350 ppm | 0.1030 ppm |
| Concentration per Run 3 | 0.0041 ppm | 0.0104 ppm | 0.0101 ppm | 0.0100 ppm | 0.0532 ppm | 2.5478 ppm | 0.1025 ppm |
| Recovery Percentage 1 | 103.285 % | 102.320 % | 101.997 % | 98.122 % | 106.496 % | 105.597 % | 103.587 % |
| Concentration RSD | 1.0 % | 1.4 % | 2.6 % | 1.5 % | 4.1 % | 3.6 % | 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 | 0.0107 ppm | 0.0507 ppm | 2.0793 ppm | 0.0203 ppm | 0.0107 ppm | 0.0513 ppm | 0.0088 ppm |
| Concentration per Run 1 | 0.0108 ppm | 0.0508 ppm | 2.1381 ppm | 0.0205 ppm | 0.0109 ppm | 0.0506 ppm | 0.0075 ppm |
| Concentration per Run 2 | 0.0103 ppm | 0.0509 ppm | 2.0785 ppm | 0.0202 ppm | 0.0107 ppm | 0.0521 ppm | 0.0099 ppm |
| Concentration per Run 3 | 0.0109 ppm | 0.0504 ppm | 2.0214 ppm | 0.0201 ppm | 0.0106 ppm | 0.0512 ppm | 0.0090 ppm |
| Recovery Percentage 1 | 106.706 % | 101.409 % | 103.966 % | 101.517 % | 107.457 % | 102.594 % | 87.942 % |
| Concentration RSD | 2.7 % | 0.6 % | 2.8 % | 1.0 % | 1.6 % | 1.5 % | 13.7 % |

| | 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 | 0.5289 ppm | 0.0496 ppm | 0.0104 ppm | 0.0104 ppm | 0.0212 ppm | 0.0102 ppm | 0.0042 ppm |
| Concentration per Run 1 | 0.5284 ppm | 0.0491 ppm | 0.0106 ppm | 0.0107 ppm | 0.0217 ppm | 0.0099 ppm | 0.0042 ppm |
| Concentration per Run 2 | 0.5321 ppm | 0.0499 ppm | 0.0103 ppm | 0.0103 ppm | 0.0204 ppm | 0.0101 ppm | 0.0043 ppm |
| Concentration per Run 3 | 0.5262 ppm | 0.0496 ppm | 0.0101 ppm | 0.0102 ppm | 0.0215 ppm | 0.0104 ppm | 0.0041 ppm |
| Recovery Percentage 1 | 105.774 % | 99.100 % | 103.541 % | 103.842 % | 106.041 % | 101.714 % | 84.291 % |
| Concentration RSD | 0.6 % | 0.9 % | 2.2 % | 2.4 % | 3.2 % | 2.5 % | 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 | 99.7314 % | 101.3644 % | 103.2216 % | 108.1110 % | 100.3440 % | 103.1598 % | 0.0105 ppm |
| Concentration per Run 1 | 100.1686 % | 101.3684 % | 103.4752 % | 105.5776 % | 100.3082 % | 103.1407 % | 0.0105 ppm |
| Concentration per Run 2 | 99.3211 % | 101.4978 % | 102.7733 % | 108.6173 % | 99.9078 % | 103.3167 % | 0.0106 ppm |
| Concentration per Run 3 | 99.7045 % | 101.2269 % | 103.4161 % | 110.1381 % | 100.8160 % | 103.0221 % | 0.0103 ppm |
| Recovery Percentage 1 | | | | | | | 104.646 % |
| Concentration RSD | 0.4 % | 0.1 % | 0.4 % | 2.1 % | 0.5 % | 0.1 % | 1.7 % |

LabBook: WG2011242_12192024T6.imexp

Sample: ICSA
Analysis started at: 12/19/2024 9:57:34 AM
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 | 0.0000 ppm | 515.6391 [SIC 500] | 0.0001 ppm | -0.0171 ppm | 0.0014 ppm | -0.0002 ppm | 482.6460 ppm |
| Concentration per Run 1 | 0.0004 ppm | 509.3129 ppm | 0.0013 ppm | -0.0170 ppm | 0.0014 ppm | -0.0002 ppm | 480.2357 ppm |
| Concentration per Run 2 | -0.0002 ppm | 519.8010 ppm | 0.0000 ppm | -0.0176 ppm | 0.0014 ppm | -0.0002 ppm | 482.2555 ppm |
| Concentration per Run 3 | -0.0003 ppm | 517.8033 ppm | -0.0009 ppm | -0.0166 ppm | 0.0013 ppm | -0.0002 ppm | 485.4468 ppm |
| Recovery Percentage 1 | -0.545 % | 515,639.060 % | 2.385 % | -57.018 % | 13.717 % | -4.203 % | 482,645.993 % |
| Concentration RSD | 934.8 % | 1.1 % | 905.9 % | 2.9 % | 3.6 % | 14.5 % | 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 | -0.0027 ppm | 0.0004 ppm | -0.0009 ppm | 0.0041 ppm | 187.9872 ppm | 0.0437 ppm | 480.2011 ppm |
| Concentration per Run 1 | -0.0027 ppm | 0.0003 ppm | -0.0012 ppm | 0.0042 ppm | 186.6829 ppm | 0.0122 ppm | 490.9523 ppm |
| Concentration per Run 2 | -0.0027 ppm | 0.0006 ppm | -0.0009 ppm | 0.0043 ppm | 188.2611 ppm | 0.0593 ppm | 477.0930 ppm |
| Concentration per Run 3 | -0.0026 ppm | 0.0005 ppm | -0.0007 ppm | 0.0039 ppm | 189.0177 ppm | 0.0596 ppm | 472.5579 ppm |
| Recovery Percentage 1 | -66.766 % | 2.237 % | -9.461 % | 41.232 % | 375,974.465 % | 1.747 % | 480,201.054 % |
| Concentration RSD | 3.0 % | 31.5 % | 26.7 % | 5.3 % | 0.6 % | 62.5 % | 2.0 % |

| | 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 | 0.0017 ppm | -0.0022 ppm | 0.0221 ppm | 0.0052 ppm | 0.0082 ppm | 0.0166 ppm | -0.0074 ppm |
| Concentration per Run 1 | 0.0016 ppm | -0.0015 ppm | 0.0272 ppm | 0.0051 ppm | 0.0074 ppm | 0.0169 ppm | -0.0101 ppm |
| Concentration per Run 2 | 0.0017 ppm | -0.0022 ppm | 0.0252 ppm | 0.0056 ppm | 0.0086 ppm | 0.0171 ppm | -0.0066 ppm |
| Concentration per Run 3 | 0.0017 ppm | -0.0027 ppm | 0.0140 ppm | 0.0047 ppm | 0.0087 ppm | 0.0159 ppm | -0.0054 ppm |
| Recovery Percentage 1 | 16.697 % | -4.302 % | 1.106 % | 20.645 % | 82.176 % | 33.293 % | -73.505 % |
| Concentration RSD | 3.8 % | 27.3 % | 32.1 % | 9.1 % | 8.5 % | 3.9 % | 32.9 % |

| | 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 | -0.0051 ppm | 0.0031 ppm | 0.0010 ppm | 0.0009 ppm | -0.0058 ppm | 0.0008 ppm | 0.0013 ppm |
| Concentration per Run 1 | -0.0056 ppm | 0.0038 ppm | 0.0009 ppm | 0.0011 ppm | -0.0007 ppm | 0.0010 ppm | 0.0014 ppm |
| Concentration per Run 2 | -0.0058 ppm | 0.0037 ppm | 0.0011 ppm | 0.0006 ppm | -0.0067 ppm | 0.0008 ppm | 0.0014 ppm |
| Concentration per Run 3 | -0.0039 ppm | 0.0018 ppm | 0.0011 ppm | 0.0010 ppm | -0.0101 ppm | 0.0007 ppm | 0.0012 ppm |
| Recovery Percentage 1 | -1.020 % | 6.237 % | 10.440 % | 8.839 % | -29.061 % | 8.288 % | 26.740 % |
| Concentration RSD | 19.8 % | 35.5 % | 11.5 % | 27.9 % | 82.4 % | 18.6 % | 8.5 % |

| | 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 | 93.2956 % | 86.7370 % | 89.6034 % | 104.9440 % | 77.1097 % | 88.7587 % | -0.0016 ppm |
| Concentration per Run 1 | 94.2000 % | 83.1813 % | 89.7115 % | 106.0990 % | 77.4504 % | 86.3531 % | -0.0014 ppm |
| Concentration per Run 2 | 92.9157 % | 88.4188 % | 89.4525 % | 104.6260 % | 76.9085 % | 89.8268 % | -0.0021 ppm |
| Concentration per Run 3 | 92.7712 % | 88.6109 % | 89.6462 % | 104.1070 % | 76.9703 % | 90.0963 % | -0.0013 ppm |
| Recovery Percentage 1 | | | | | | | -15.800 % |
| Concentration RSD | 0.8 % | 3.6 % | 0.2 % | 1.0 % | 0.4 % | 2.4 % | 27.7 % |

LabBook: WG2011242_12192024T6.imexp

Sample: SIC Cr Mn V Ti
Analysis started at: 12/19/2024 10:06:30 AM
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 | 0.0007 ppm | -0.0028 ppm | -0.0023 ppm | 0.0017 ppm | 0.0000 ppm | -0.0011 ppm | 0.0045 ppm |
| Concentration per Run 1 | 0.0010 ppm | 0.0036 ppm | -0.0025 ppm | 0.0017 ppm | 0.0000 ppm | -0.0012 ppm | 0.0024 ppm |
| Concentration per Run 2 | 0.0007 ppm | -0.0041 ppm | -0.0024 ppm | 0.0015 ppm | 0.0000 ppm | -0.0010 ppm | 0.0055 ppm |
| Concentration per Run 3 | 0.0003 ppm | -0.0079 ppm | -0.0019 ppm | 0.0020 ppm | 0.0000 ppm | -0.0012 ppm | 0.0055 ppm |
| Recovery Percentage 1 | 9.636 % | -2.780 % | -45.582 % | 5.769 % | 0.434 % | -22.600 % | 4.489 % |
| Concentration RSD | 45.6 % | 211.6 % | 12.6 % | 13.9 % | 14.1 % | 11.6 % | 40.2 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | -0.0029 ppm | -0.0101 ppm | 20.1727 ppm | -0.0039 ppm | -0.0084 ppm | -0.0255 ppm | -0.0138 ppm |
| Concentration per Run 1 | -0.0029 ppm | -0.0100 ppm | 20.3012 ppm | -0.0040 ppm | -0.0083 ppm | -0.0037 ppm | -0.0126 ppm |
| Concentration per Run 2 | -0.0029 ppm | -0.0103 ppm | 20.1024 ppm | -0.0038 ppm | -0.0077 ppm | -0.0381 ppm | -0.0164 ppm |
| Concentration per Run 3 | -0.0029 ppm | -0.0100 ppm | 20.1144 ppm | -0.0038 ppm | -0.0090 ppm | -0.0346 ppm | -0.0123 ppm |
| Recovery Percentage 1 | -72.084 % | -50.660 % | 201,726.894 % | -38.916 % | -16.715 % | -1.019 % | -13.753 % |
| Concentration RSD | 1.0 % | 1.9 % | 0.6 % | 2.8 % | 7.6 % | 74.3 % | 16.5 % |

| | 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 | 20.7267 [SIC 20] | -0.0030 ppm | 0.0105 ppm | 0.0001 ppm | -0.0005 ppm | -0.0221 ppm | -0.0010 ppm |
| Concentration per Run 1 | 20.8856 ppm | -0.0030 ppm | 0.0112 ppm | -0.0002 ppm | -0.0008 ppm | -0.0222 ppm | -0.0009 ppm |
| Concentration per Run 2 | 20.6832 ppm | -0.0031 ppm | 0.0098 ppm | 0.0003 ppm | -0.0008 ppm | -0.0216 ppm | -0.0003 ppm |
| Concentration per Run 3 | 20.6113 ppm | -0.0030 ppm | 0.0105 ppm | 0.0002 ppm | 0.0000 ppm | -0.0223 ppm | -0.0019 ppm |
| Recovery Percentage 1 | 207,266.907 % | -6.055 % | 0.523 % | 0.329 % | -5.429 % | -44.110 % | -10.288 % |
| Concentration RSD | 0.7 % | 2.3 % | 6.7 % | 337.0 % | 81.0 % | 1.8 % | 78.5 % |

| | 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 | 0.0169 ppm | -0.0013 ppm | 0.0004 ppm | 20.2665 ppm | -0.0014 ppm | 10.4132 [SIC 10] | -0.0072 ppm |
| Concentration per Run 1 | 0.0205 ppm | -0.0017 ppm | 0.0004 ppm | 20.2040 ppm | -0.0019 ppm | 10.3987 ppm | -0.0070 ppm |
| Concentration per Run 2 | 0.0156 ppm | -0.0011 ppm | 0.0004 ppm | 20.3488 ppm | -0.0012 ppm | 10.4187 ppm | -0.0073 ppm |
| Concentration per Run 3 | 0.0144 ppm | -0.0011 ppm | 0.0004 ppm | 20.2466 ppm | -0.0010 ppm | 10.4223 ppm | -0.0073 ppm |
| Recovery Percentage 1 | 3.371 % | -2.564 % | 4.287 % | 202,664.599 % | -6.766 % | 104,131.998 % | -144.110 % |
| Concentration RSD | 19.0 % | 26.8 % | 5.3 % | 0.4 % | 37.6 % | 0.1 % | 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 | 97.9717 % | 100.2940 % | 102.0617 % | 109.7466 % | 96.0703 % | 101.8079 % | -0.0035 ppm |
| Concentration per Run 1 | 98.1026 % | 100.5847 % | 102.5625 % | 109.3648 % | 96.4373 % | 102.0125 % | -0.0038 ppm |
| Concentration per Run 2 | 97.8727 % | 100.1467 % | 101.9775 % | 109.6575 % | 96.0753 % | 101.6812 % | -0.0037 ppm |
| Concentration per Run 3 | 97.9398 % | 100.1505 % | 101.6451 % | 110.2175 % | 95.6983 % | 101.7301 % | -0.0031 ppm |
| Recovery Percentage 1 | | | | | | | -35.388 % |
| Concentration RSD | 0.1 % | 0.3 % | 0.5 % | 0.4 % | 0.4 % | 0.2 % | 10.6 % |

LabBook: WG2011242_12192024T6.imexp

Sample: zLLOQ 0.01ppm
Analysis started at: 12/19/2024 10:18:02 AM
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 | 0.0100 ppm | 0.0076 ppm | 0.0098 ppm | 0.0100 ppm | 0.0103 ppm | 0.0108 ppm | 0.0183 ppm |
| Concentration per Run 1 | 0.0099 ppm | 0.0117 ppm | 0.0100 ppm | 0.0100 ppm | 0.0109 ppm | 0.0113 ppm | 0.0159 ppm |
| Concentration per Run 2 | 0.0100 ppm | 0.0104 ppm | 0.0102 ppm | 0.0102 ppm | 0.0102 ppm | 0.0106 ppm | 0.0216 ppm |
| Concentration per Run 3 | 0.0101 ppm | 0.0008 ppm | 0.0091 ppm | 0.0099 ppm | 0.0099 ppm | 0.0104 ppm | 0.0175 ppm |
| Recovery Percentage 1 | 0.000 % | 0.000 % | 97.827 % | 100.078 % | 103.499 % | 0.000 % | 0.000 % |
| Concentration RSD | 0.9 % | 78.4 % | 6.5 % | 1.4 % | 5.1 % | 4.3 % | 16.1 % |

| | 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 | 0.0098 ppm | 0.0102 ppm | 0.0100 ppm | 0.0094 ppm | 0.0130 ppm | 0.1193 ppm | 0.0116 ppm |
| Concentration per Run 1 | 0.0098 ppm | 0.0103 ppm | 0.0098 ppm | 0.0093 ppm | 0.0134 ppm | 0.1219 ppm | 0.0129 ppm |
| Concentration per Run 2 | 0.0099 ppm | 0.0101 ppm | 0.0102 ppm | 0.0096 ppm | 0.0125 ppm | 0.1292 ppm | 0.0115 ppm |
| Concentration per Run 3 | 0.0098 ppm | 0.0103 ppm | 0.0100 ppm | 0.0094 ppm | 0.0130 ppm | 0.1068 ppm | 0.0104 ppm |
| Recovery Percentage 1 | 0.000 % | 102.493 % | 99.936 % | 94.440 % | 0.000 % | 0.000 % | 0.000 % |
| Concentration RSD | 0.4 % | 1.1 % | 2.2 % | 1.5 % | 3.7 % | 9.6 % | 11.1 % |

| | 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 | 0.0103 ppm | 0.0100 ppm | 0.2158 ppm | 0.0101 ppm | 0.0108 ppm | 0.0109 ppm | 0.0088 ppm |
| Concentration per Run 1 | 0.0103 ppm | 0.0099 ppm | 0.2186 ppm | 0.0100 ppm | 0.0110 ppm | 0.0113 ppm | 0.0097 ppm |
| Concentration per Run 2 | 0.0106 ppm | 0.0099 ppm | 0.2212 ppm | 0.0101 ppm | 0.0112 ppm | 0.0106 ppm | 0.0090 ppm |
| Concentration per Run 3 | 0.0099 ppm | 0.0101 ppm | 0.2075 ppm | 0.0102 ppm | 0.0102 ppm | 0.0108 ppm | 0.0078 ppm |
| Recovery Percentage 1 | 102.730 % | 99.596 % | 0.000 % | 100.909 % | 107.896 % | 0.000 % | 88.483 % |
| Concentration RSD | 3.8 % | 1.2 % | 3.4 % | 1.0 % | 5.1 % | 3.4 % | 11.0 % |

| | 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 | 0.1144 ppm | 0.0104 ppm | 0.0109 ppm | 0.0106 ppm | 0.0112 ppm | 0.0101 ppm | 0.0093 ppm |
| Concentration per Run 1 | 0.1149 ppm | 0.0102 ppm | 0.0115 ppm | 0.0107 ppm | 0.0115 ppm | 0.0101 ppm | 0.0095 ppm |
| Concentration per Run 2 | 0.1136 ppm | 0.0104 ppm | 0.0108 ppm | 0.0106 ppm | 0.0118 ppm | 0.0102 ppm | 0.0092 ppm |
| Concentration per Run 3 | 0.1146 ppm | 0.0106 ppm | 0.0106 ppm | 0.0106 ppm | 0.0101 ppm | 0.0101 ppm | 0.0093 ppm |
| Recovery Percentage 1 | 0.000 % | 104.097 % | 109.382 % | 106.456 % | 111.628 % | 101.102 % | 93.240 % |
| Concentration RSD | 0.6 % | 1.9 % | 4.4 % | 0.4 % | 8.1 % | 0.6 % | 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 | 99.2102 % | 102.1411 % | 104.0467 % | 104.9976 % | 100.6179 % | 103.0303 % | 0.0114 ppm |
| Concentration per Run 1 | 98.4917 % | 102.2032 % | 104.5448 % | 100.5554 % | 100.8311 % | 103.0190 % | 0.0113 ppm |
| Concentration per Run 2 | 99.3960 % | 101.8982 % | 104.0731 % | 105.9772 % | 100.4511 % | 102.7784 % | 0.0114 ppm |
| Concentration per Run 3 | 99.7427 % | 102.3220 % | 103.5223 % | 108.4602 % | 100.5714 % | 103.2935 % | 0.0115 ppm |
| Recovery Percentage 1 | | | | | | | 113.969 % |
| Concentration RSD | 0.7 % | 0.2 % | 0.5 % | 3.9 % | 0.2 % | 0.3 % | 0.9 % |

# ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: LLOQ 0.005ppm As
Analysis started at: 12/19/2024 10:24:45 AM
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 | 0.0051 ppm | 0.0006 ppm | 0.0050 ppm | 0.0051 ppm | 0.0052 ppm | 0.0054 ppm | 0.0172 ppm |
| Concentration per Run 1 | 0.0050 ppm | 0.0006 ppm | 0.0050 ppm | 0.0050 ppm | 0.0052 ppm | 0.0056 ppm | 0.0222 ppm |
| Concentration per Run 2 | 0.0051 ppm | -0.0055 ppm | 0.0046 ppm | 0.0050 ppm | 0.0053 ppm | 0.0053 ppm | 0.0160 ppm |
| Concentration per Run 3 | 0.0051 ppm | 0.0066 ppm | 0.0053 ppm | 0.0053 ppm | 0.0050 ppm | 0.0053 ppm | 0.0133 ppm |
| Recovery Percentage 1 | 101.570 % | 11.560 % | 99.586 % | 102.236 % | 103.388 % | 108.171 % | 0.000 % |
| Concentration RSD | 1.7 % | 1,051.2 % | 7.7 % | 3.6 % | 3.2 % | 3.5 % | 26.6 % |

| | 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 | 0.0049 ppm | 0.0049 ppm | 0.0050 ppm | 0.0047 ppm | 0.0116 ppm | 0.0354 ppm | 0.0064 ppm |
| Concentration per Run 1 | 0.0047 ppm | 0.0048 ppm | 0.0050 ppm | 0.0050 ppm | 0.0091 ppm | 0.0500 ppm | 0.0061 ppm |
| Concentration per Run 2 | 0.0049 ppm | 0.0050 ppm | 0.0052 ppm | 0.0045 ppm | 0.0187 ppm | 0.0330 ppm | 0.0064 ppm |
| Concentration per Run 3 | 0.0049 ppm | 0.0049 ppm | 0.0047 ppm | 0.0044 ppm | 0.0070 ppm | 0.0232 ppm | 0.0066 ppm |
| Recovery Percentage 1 | 97.048 % | 97.949 % | 99.300 % | 93.281 % | 232.271 % | 0.000 % | 0.000 % |
| Concentration RSD | 1.9 % | 2.3 % | 4.8 % | 7.1 % | 53.4 % | 38.3 % | 4.2 % |

| | 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 | 0.0053 ppm | 0.0050 ppm | 0.1109 ppm | 0.0050 ppm | 0.0055 ppm | 0.0046 ppm | 0.0046 ppm |
| Concentration per Run 1 | 0.0054 ppm | 0.0049 ppm | 0.1133 ppm | 0.0050 ppm | 0.0054 ppm | 0.0040 ppm | 0.0045 ppm |
| Concentration per Run 2 | 0.0051 ppm | 0.0050 ppm | 0.1088 ppm | 0.0052 ppm | 0.0059 ppm | 0.0050 ppm | 0.0044 ppm |
| Concentration per Run 3 | 0.0054 ppm | 0.0051 ppm | 0.1108 ppm | 0.0048 ppm | 0.0053 ppm | 0.0047 ppm | 0.0048 ppm |
| Recovery Percentage 1 | 105.879 % | 100.088 % | 0.000 % | 99.967 % | 110.404 % | 91.833 % | 91.594 % |
| Concentration RSD | 3.9 % | 2.4 % | 2.0 % | 3.7 % | 5.3 % | 11.1 % | 4.8 % |

| | 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 | 0.0572 ppm | 0.0052 ppm | 0.0056 ppm | 0.0053 ppm | 0.0045 ppm | 0.0050 ppm | 0.0043 ppm |
| Concentration per Run 1 | 0.0560 ppm | 0.0049 ppm | 0.0059 ppm | 0.0052 ppm | 0.0034 ppm | 0.0048 ppm | 0.0042 ppm |
| Concentration per Run 2 | 0.0585 ppm | 0.0055 ppm | 0.0056 ppm | 0.0056 ppm | 0.0046 ppm | 0.0050 ppm | 0.0044 ppm |
| Concentration per Run 3 | 0.0571 ppm | 0.0053 ppm | 0.0054 ppm | 0.0052 ppm | 0.0054 ppm | 0.0052 ppm | 0.0042 ppm |
| Recovery Percentage 1 | 1,144.251 % | 104.692 % | 112.455 % | 106.391 % | 89.541 % | 99.681 % | 85.602 % |
| Concentration RSD | 2.2 % | 6.6 % | 3.9 % | 3.8 % | 23.0 % | 3.3 % | 2.2 % |

| | 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 | 98.2813 % | 101.0513 % | 103.9719 % | 103.0589 % | 101.3276 % | 102.1006 % | 0.0058 ppm |
| Concentration per Run 1 | 97.8177 % | 100.9234 % | 105.1190 % | 99.0575 % | 102.4837 % | 101.7979 % | 0.0070 ppm |
| Concentration per Run 2 | 98.7731 % | 101.1051 % | 103.6627 % | 104.0901 % | 100.4903 % | 102.1407 % | 0.0053 ppm |
| Concentration per Run 3 | 98.2532 % | 101.1254 % | 103.1340 % | 106.0290 % | 101.0089 % | 102.3633 % | 0.0053 ppm |
| Recovery Percentage 1 | | | | | | | 116.942 % |
| Concentration RSD | 0.5 % | 0.1 % | 1.0 % | 3.5 % | 1.0 % | 0.3 % | 16.7 % |

LabBook: WG2011242_12192024T6.imexp

Sample: LDR 400 Fe pass
Analysis started at: 12/19/2024 10:31:28 AM
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 | 0.0018 ppm | 0.0059 ppm | 0.0012 ppm | 0.0003 ppm | 0.0000 ppm | 0.0055 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0037 ppm | 0.0059 ppm | 0.0011 ppm | 0.0004 ppm | 0.0000 ppm | 0.0059 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.0054 ppm | 0.0072 ppm | 0.0012 ppm | 0.0003 ppm | 0.0000 ppm | 0.0056 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0037 ppm | 0.0046 ppm | 0.0013 ppm | 0.0003 ppm | 0.0000 ppm | 0.0052 ppm |
| Concentration RSD | 151.9 % | 269.1 % | 22.4 % | 8.3 % | 28.6 % | 32.0 % | 5.7 % |

| | 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 | 0.0004 ppm | 0.0001 ppm | -0.0020 ppm | -0.0002 ppm | 373.1324 [SIC 500] | -0.0027 ppm | 0.0431 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0002 ppm | -0.0021 ppm | 0.0004 ppm | 389.3879 ppm | 0.0161 ppm | 0.0447 ppm |
| Concentration per Run 2 | 0.0004 ppm | 0.0003 ppm | -0.0021 ppm | -0.0003 ppm | 366.4126 ppm | -0.0033 ppm | 0.0409 ppm |
| Concentration per Run 3 | 0.0006 ppm | 0.0002 ppm | -0.0017 ppm | -0.0007 ppm | 363.5967 ppm | -0.0211 ppm | 0.0436 ppm |
| Concentration RSD | 76.6 % | 267.8 % | 10.4 % | 315.5 % | 3.8 % | 678.6 % | 4.5 % |

| | 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 | 0.0001 ppm | -0.0044 ppm | 0.0090 ppm | 0.0131 ppm | 0.0011 ppm | 0.0015 ppm | -0.0055 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0045 ppm | 0.0080 ppm | 0.0133 ppm | 0.0002 ppm | 0.0000 ppm | -0.0040 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0044 ppm | 0.0145 ppm | 0.0133 ppm | 0.0014 ppm | 0.0030 ppm | -0.0044 ppm |
| Concentration per Run 3 | 0.0002 ppm | -0.0042 ppm | 0.0045 ppm | 0.0127 ppm | 0.0016 ppm | 0.0015 ppm | -0.0082 ppm |
| Concentration RSD | 263.0 % | 3.5 % | 56.6 % | 2.5 % | 73.2 % | 100.5 % | 42.2 % |

| | 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 | 0.0051 ppm | 0.0041 ppm | 0.0004 ppm | 0.0000 ppm | -0.0003 ppm | 0.0015 ppm | 0.0006 ppm |
| Concentration per Run 1 | 0.0060 ppm | 0.0039 ppm | 0.0003 ppm | 0.0003 ppm | -0.0001 ppm | 0.0016 ppm | 0.0005 ppm |
| Concentration per Run 2 | 0.0041 ppm | 0.0040 ppm | 0.0004 ppm | -0.0003 ppm | -0.0013 ppm | 0.0014 ppm | 0.0007 ppm |
| Concentration per Run 3 | 0.0050 ppm | 0.0044 ppm | 0.0005 ppm | -0.0001 ppm | 0.0006 ppm | 0.0015 ppm | 0.0006 ppm |
| Concentration RSD | 18.9 % | 5.7 % | 15.3 % | 1,260.0 % | 374.2 % | 6.7 % | 11.5 % |

| | 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 | 95.9597 % | 98.0945 % | 97.2555 % | 106.9322 % | 89.0156 % | 100.7307 % | 0.0006 ppm |
| Concentration per Run 1 | 95.6721 % | 98.3757 % | 97.0026 % | 104.1723 % | 88.5264 % | 100.9268 % | 0.0008 ppm |
| Concentration per Run 2 | 96.3721 % | 97.6533 % | 97.3267 % | 108.2071 % | 89.0381 % | 100.2888 % | 0.0007 ppm |
| Concentration per Run 3 | 95.8348 % | 98.2546 % | 97.4372 % | 108.4171 % | 89.4823 % | 100.9764 % | 0.0002 ppm |
| Concentration RSD | 0.4 % | 0.4 % | 0.2 % | 2.2 % | 0.5 % | 0.4 % | 53.7 % |

LabBook: WG2011242_12192024T6.imexp

Sample: LDR 800 Ca pass
Analysis started at: 12/19/2024 10:39:18 AM
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 | -0.0004 ppm | -0.0051 ppm | 0.0013 ppm | 0.0000 ppm | 0.0007 ppm | -0.0003 ppm | 800.5371 [SIC 1000] |
| Concentration per Run 1 | -0.0006 ppm | -0.0013 ppm | 0.0024 ppm | -0.0001 ppm | 0.0007 ppm | -0.0003 ppm | 842.6496 ppm |
| Concentration per Run 2 | -0.0003 ppm | -0.0091 ppm | -0.0002 ppm | 0.0006 ppm | 0.0006 ppm | -0.0003 ppm | 787.4654 ppm |
| Concentration per Run 3 | -0.0004 ppm | -0.0050 ppm | 0.0018 ppm | -0.0004 ppm | 0.0007 ppm | -0.0003 ppm | 771.4964 ppm |
| Concentration RSD | 31.6 % | 76.1 % | 105.6 % | 1,098.7 % | 10.4 % | 2.1 % | 4.7 % |

| | 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 | 0.0021 ppm | 0.0004 ppm | 0.0007 ppm | 0.0007 ppm | 0.0096 ppm | -0.0107 ppm | 0.0119 ppm |
| Concentration per Run 1 | 0.0020 ppm | 0.0005 ppm | 0.0007 ppm | 0.0007 ppm | 0.0117 ppm | -0.0090 ppm | 0.0113 ppm |
| Concentration per Run 2 | 0.0021 ppm | 0.0003 ppm | 0.0007 ppm | 0.0008 ppm | 0.0083 ppm | -0.0398 ppm | 0.0113 ppm |
| Concentration per Run 3 | 0.0021 ppm | 0.0004 ppm | 0.0008 ppm | 0.0007 ppm | 0.0090 ppm | 0.0166 ppm | 0.0130 ppm |
| Concentration RSD | 1.0 % | 21.3 % | 10.2 % | 5.8 % | 18.8 % | 263.4 % | 8.6 % |

| | 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 | 0.0006 ppm | 0.0187 ppm | 0.0003 ppm | 0.0015 ppm | 0.0024 ppm | -0.0029 ppm |
| Concentration per Run 1 | 0.0004 ppm | 0.0007 ppm | 0.0214 ppm | 0.0001 ppm | 0.0010 ppm | 0.0046 ppm | -0.0023 ppm |
| Concentration per Run 2 | 0.0003 ppm | 0.0005 ppm | 0.0147 ppm | 0.0005 ppm | 0.0014 ppm | 0.0005 ppm | -0.0042 ppm |
| Concentration per Run 3 | 0.0004 ppm | 0.0007 ppm | 0.0198 ppm | 0.0002 ppm | 0.0020 ppm | 0.0021 ppm | -0.0023 ppm |
| Concentration RSD | 5.5 % | 23.1 % | 18.8 % | 70.4 % | 34.6 % | 87.3 % | 38.5 % |

| | 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 | 0.0057 ppm | 0.0007 ppm | 0.0013 ppm | 0.0011 ppm | 0.0002 ppm | 0.0006 ppm | 0.0014 ppm |
| Concentration per Run 1 | 0.0059 ppm | 0.0012 ppm | 0.0012 ppm | 0.0009 ppm | -0.0015 ppm | 0.0005 ppm | 0.0015 ppm |
| Concentration per Run 2 | 0.0055 ppm | 0.0006 ppm | 0.0014 ppm | 0.0013 ppm | 0.0005 ppm | 0.0006 ppm | 0.0014 ppm |
| Concentration per Run 3 | 0.0056 ppm | 0.0001 ppm | 0.0012 ppm | 0.0011 ppm | 0.0016 ppm | 0.0006 ppm | 0.0013 ppm |
| Concentration RSD | 3.6 % | 84.4 % | 7.3 % | 17.3 % | 650.0 % | 8.4 % | 6.5 % |

| | 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 | 92.4328 % | 90.8396 % | 90.6912 % | 96.0804 % | 89.8335 % | 91.2549 % | 0.0029 ppm |
| Concentration per Run 1 | 92.0924 % | 91.0407 % | 90.8125 % | 92.0798 % | 89.5938 % | 91.2369 % | 0.0023 ppm |
| Concentration per Run 2 | 92.8785 % | 90.5603 % | 90.8889 % | 97.4232 % | 89.9594 % | 90.9082 % | 0.0030 ppm |
| Concentration per Run 3 | 92.3274 % | 90.9178 % | 90.3721 % | 98.7382 % | 89.9474 % | 91.6195 % | 0.0033 ppm |
| Concentration RSD | 0.4 % | 0.3 % | 0.3 % | 3.7 % | 0.2 % | 0.4 % | 17.4 % |

# ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: LDR Check
Analysis started at: 12/19/2024 11:25:59 AM
Rack: 0
Vial: 8

| | Ag 328.068 {103} (Axial) | Al 396.152 {85} (Radial) | As 189.042 {478} (Axial) | B 208.959 {461} (Axial) | Ba 455.403 {74} (Radial) | Be 313.042 {108} (Radial) | Ca 315.887 {107} (Radial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0027 ppm | 0.0231 ppm | 22.6307 ppm | 20.7775 [SIC 20] | 19.3533 ppm | 4.9070 ppm | 0.0101 ppm |
| Concentration per Run 1 | 0.0026 ppm | 0.0195 ppm | 22.3323 ppm | 20.5459 ppm | 19.3470 ppm | 4.9037 ppm | 0.0105 ppm |
| Concentration per Run 2 | 0.0029 ppm | 0.0238 ppm | 22.9246 ppm | 21.0608 ppm | 19.3750 ppm | 4.9060 ppm | 0.0094 ppm |
| Concentration per Run 3 | 0.0026 ppm | 0.0259 ppm | 22.6353 ppm | 20.7259 ppm | 19.3381 ppm | 4.9114 ppm | 0.0105 ppm |
| Recovery Percentage 1 | 0.000 % | 0.000 % | 113.153 % | 103.888 % | 96.767 % | 98.140 % | 0.000 % |
| Concentration RSD | 6.1 % | 14.2 % | 1.3 % | 1.3 % | 0.1 % | 0.1 % | 6.3 % |

| | 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 | 5.3220 ppm | 5.3002 ppm | -0.0005 ppm | 20.2045 [SIC 20] | 0.0039 ppm | 498.3418 ppm | -0.0128 ppm |
| Concentration per Run 1 | 5.2347 ppm | 5.2279 ppm | -0.0002 ppm | 20.3988 ppm | 0.0046 ppm | 500.2927 ppm | -0.0131 ppm |
| Concentration per Run 2 | 5.3872 ppm | 5.3664 ppm | -0.0007 ppm | 20.0186 ppm | 0.0022 ppm | 499.2073 ppm | -0.0118 ppm |
| Concentration per Run 3 | 5.3439 ppm | 5.3062 ppm | -0.0005 ppm | 20.1959 ppm | 0.0050 ppm | 495.5253 ppm | -0.0136 ppm |
| Recovery Percentage 1 | 106.439 % | 106.003 % | 0.000 % | 101.022 % | 0.000 % | 99.668 % | 0.000 % |
| Concentration RSD | 1.5 % | 1.3 % | 52.7 % | 0.9 % | 37.8 % | 0.5 % | 7.4 % |

| | 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 | 0.0018 ppm | 5.4562 [SIC 20] | 481.1081 ppm | 10.1732 [SIC 20] | 50.7106 ppm | 5.7118 ppm | 5.4976 [SIC 20] |
| Concentration per Run 1 | 0.0019 ppm | 5.3727 ppm | 480.7922 ppm | 10.0262 ppm | 50.0060 ppm | 5.6537 ppm | 5.4428 ppm |
| Concentration per Run 2 | 0.0015 ppm | 5.5291 ppm | 484.7445 ppm | 10.3038 ppm | 51.3428 ppm | 5.7906 ppm | 5.5742 ppm |
| Concentration per Run 3 | 0.0018 ppm | 5.4667 ppm | 477.7876 ppm | 10.1896 ppm | 50.7831 ppm | 5.6910 ppm | 5.4756 ppm |
| Recovery Percentage 1 | 0.000 % | 109.123 % | 96.222 % | 101.732 % | 101.421 % | 114.235 % | 109.951 % |
| Concentration RSD | 11.2 % | 1.4 % | 0.7 % | 1.4 % | 1.3 % | 1.2 % | 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 | 23.9364 [SIC 200] | 10.2405 [SIC 20] | 4.8340 ppm | 0.0042 ppm | 4.6221 ppm | -0.0002 ppm | 21.9352 [SIC 20] |
| Concentration per Run 1 | 23.6723 ppm | 10.0980 ppm | 4.8094 ppm | 0.0048 ppm | 4.5626 ppm | -0.0003 ppm | 21.5668 ppm |
| Concentration per Run 2 | 24.2595 ppm | 10.3617 ppm | 4.8399 ppm | 0.0042 ppm | 4.6825 ppm | -0.0004 ppm | 22.1877 ppm |
| Concentration per Run 3 | 23.8773 ppm | 10.2617 ppm | 4.8528 ppm | 0.0037 ppm | 4.6211 ppm | 0.0003 ppm | 22.0513 ppm |
| Recovery Percentage 1 | 119.682 % | 102.405 % | 96.680 % | 0.000 % | 92.442 % | 0.000 % | 109.676 % |
| Concentration RSD | 1.2 % | 1.3 % | 0.5 % | 13.5 % | 1.3 % | 246.7 % | 1.5 % |

| | 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 | 91.7120 % | 90.5689 % | 87.8833 % | 103.1093 % | 78.2065 % | 92.1010 % | 19.5242 ppm |
| Concentration per Run 1 | 91.8897 % | 90.2004 % | 88.7274 % | 103.6081 % | 79.0900 % | 91.7854 % | 19.4436 ppm |
| Concentration per Run 2 | 91.2117 % | 91.3694 % | 86.9599 % | 102.6669 % | 77.1977 % | 92.9103 % | 19.5410 ppm |
| Concentration per Run 3 | 92.0347 % | 90.1370 % | 87.9625 % | 103.0529 % | 78.3317 % | 91.6072 % | 19.5881 ppm |
| Recovery Percentage 1 | | | | | | | 97.621 % |
| Concentration RSD | 0.5 % | 0.8 % | 1.0 % | 0.5 % | 1.2 % | 0.8 % | 0.4 % |

LabBook: WG2011242_12192024T6.imexp

Sample: LDR 20 As Pass
Analysis started at: 12/19/2024 11:40:53 AM
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 | 0.0000 ppm | -0.0034 ppm | 18.2339 ppm | 0.0162 ppm | 0.0001 ppm | 0.0000 ppm | 0.0068 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0077 ppm | 18.1893 ppm | 0.0165 ppm | 0.0001 ppm | 0.0000 ppm | 0.0093 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0025 ppm | 18.1628 ppm | 0.0163 ppm | 0.0001 ppm | 0.0000 ppm | 0.0089 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0000 ppm | 18.3494 ppm | 0.0156 ppm | 0.0001 ppm | 0.0000 ppm | 0.0023 ppm |
| Concentration RSD | 92.2 % | 115.1 % | 0.6 % | 3.1 % | 32.7 % | 5,494.4 % | 57.7 % |

| | 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 | -0.0001 ppm | -0.0001 ppm | -0.0005 ppm | 0.0008 ppm | 0.1048 ppm | 0.0012 ppm |
| Concentration per Run 1 | -0.0041 ppm | -0.0002 ppm | -0.0002 ppm | -0.0002 ppm | 0.0017 ppm | 0.1193 ppm | 0.0018 ppm |
| Concentration per Run 2 | -0.0041 ppm | -0.0001 ppm | 0.0001 ppm | -0.0005 ppm | 0.0017 ppm | 0.0926 ppm | 0.0004 ppm |
| Concentration per Run 3 | -0.0041 ppm | -0.0001 ppm | -0.0001 ppm | -0.0007 ppm | -0.0010 ppm | 0.1023 ppm | 0.0013 ppm |
| Concentration RSD | 0.3 % | 35.9 % | 260.4 % | 48.4 % | 198.3 % | 12.9 % | 63.8 % |

| | 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 | 0.0320 ppm | -0.0003 ppm | 0.0001 ppm | 0.0045 ppm | 0.0004 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0010 ppm | 0.0340 ppm | -0.0003 ppm | -0.0001 ppm | 0.0047 ppm | 0.0025 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0010 ppm | 0.0266 ppm | -0.0002 ppm | 0.0002 ppm | 0.0047 ppm | 0.0002 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0010 ppm | 0.0353 ppm | -0.0003 ppm | 0.0001 ppm | 0.0042 ppm | -0.0014 ppm |
| Concentration RSD | 336.6 % | 4.6 % | 14.7 % | 21.6 % | 296.8 % | 7.0 % | 432.7 % |

| | 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 | 0.0046 ppm | 0.0010 ppm | 0.0001 ppm | 0.0000 ppm | -0.0006 ppm | 0.0000 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0043 ppm | 0.0013 ppm | 0.0000 ppm | -0.0001 ppm | -0.0003 ppm | 0.0000 ppm | 0.0001 ppm |
| Concentration per Run 2 | 0.0044 ppm | 0.0006 ppm | 0.0001 ppm | 0.0002 ppm | -0.0005 ppm | -0.0001 ppm | 0.0001 ppm |
| Concentration per Run 3 | 0.0050 ppm | 0.0010 ppm | 0.0001 ppm | 0.0000 ppm | -0.0010 ppm | 0.0000 ppm | -0.0001 ppm |
| Concentration RSD | 7.9 % | 34.2 % | 46.8 % | 770.8 % | 59.8 % | 291.2 % | 178.8 % |

| | 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 | 96.0385 % | 102.9775 % | 105.7377 % | 104.6345 % | 101.9571 % | 105.0271 % | 0.0021 ppm |
| Concentration per Run 1 | 97.0133 % | 102.4970 % | 105.7075 % | 102.4427 % | 101.9140 % | 104.5371 % | 0.0030 ppm |
| Concentration per Run 2 | 95.9820 % | 103.0646 % | 106.3631 % | 105.7494 % | 102.3304 % | 105.1018 % | 0.0008 ppm |
| Concentration per Run 3 | 95.1202 % | 103.3708 % | 105.1425 % | 105.7113 % | 101.6268 % | 105.4425 % | 0.0025 ppm |
| Concentration RSD | 1.0 % | 0.4 % | 0.6 % | 1.8 % | 0.3 % | 0.4 % | 54.7 % |

LabBook: WG2011242_12192024T6.imexp

Sample: LDR 5 Sb Pass
Analysis started at: 12/19/2024 11:47:36 AM
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 | 0.0000 ppm | 0.0005 ppm | 0.0017 ppm | 0.0092 ppm | 0.0000 ppm | 0.0000 ppm | 0.0102 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0016 ppm | 0.0023 ppm | 0.0096 ppm | 0.0000 ppm | 0.0000 ppm | 0.0171 ppm |
| Concentration per Run 2 | -0.0002 ppm | -0.0022 ppm | 0.0008 ppm | 0.0091 ppm | 0.0000 ppm | 0.0000 ppm | 0.0113 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0021 ppm | 0.0020 ppm | 0.0091 ppm | 0.0000 ppm | -0.0001 ppm | 0.0024 ppm |
| Concentration RSD | 3,654.2 % | 457.8 % | 47.2 % | 2.9 % | 35.7 % | 184.9 % | 72.2 % |

| | 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 | 0.0000 ppm | 0.0001 ppm | 0.0002 ppm | -0.0004 ppm | 0.0014 ppm | 0.0617 ppm | 0.0006 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0001 ppm | 0.0003 ppm | -0.0004 ppm | 0.0010 ppm | 0.0859 ppm | 0.0004 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0001 ppm | 0.0003 ppm | -0.0003 ppm | 0.0012 ppm | 0.0467 ppm | 0.0013 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0001 ppm | 0.0002 ppm | -0.0005 ppm | 0.0019 ppm | 0.0525 ppm | 0.0001 ppm |
| Concentration RSD | 66.2 % | 18.1 % | 24.3 % | 28.0 % | 35.6 % | 34.3 % | 109.3 % |

| | 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 | 0.0005 ppm | 0.0073 ppm | -0.0001 ppm | -0.0008 ppm | 4.9231 ppm | -0.0010 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0004 ppm | 0.0042 ppm | 0.0001 ppm | -0.0010 ppm | 4.9377 ppm | -0.0016 ppm |
| Concentration per Run 2 | 0.0003 ppm | 0.0006 ppm | 0.0105 ppm | 0.0001 ppm | -0.0003 ppm | 4.9138 ppm | -0.0003 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0005 ppm | 0.0073 ppm | -0.0003 ppm | -0.0012 ppm | 4.9178 ppm | -0.0011 ppm |
| Concentration RSD | 887.8 % | 18.9 % | 43.6 % | 502.4 % | 57.5 % | 0.3 % | 68.4 % |

| | 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 | 0.0027 ppm | 0.0002 ppm | 0.0000 ppm | 0.0001 ppm | 0.0000 ppm | 0.0001 ppm | -0.0007 ppm |
| Concentration per Run 1 | 0.0026 ppm | 0.0003 ppm | 0.0000 ppm | 0.0002 ppm | 0.0004 ppm | -0.0001 ppm | -0.0007 ppm |
| Concentration per Run 2 | 0.0023 ppm | 0.0004 ppm | 0.0001 ppm | 0.0002 ppm | -0.0002 ppm | 0.0002 ppm | -0.0007 ppm |
| Concentration per Run 3 | 0.0030 ppm | 0.0000 ppm | 0.0000 ppm | -0.0001 ppm | 0.0000 ppm | 0.0002 ppm | -0.0006 ppm |
| Concentration RSD | 12.0 % | 77.4 % | 117.0 % | 183.4 % | 648.8 % | 230.6 % | 7.3 % |

| | 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 | 95.2722 % | 101.9227 % | 104.1574 % | 99.7858 % | 102.1776 % | 103.2184 % | 0.0016 ppm |
| Concentration per Run 1 | 93.9175 % | 101.7321 % | 104.2157 % | 94.3464 % | 101.7940 % | 102.8306 % | 0.0023 ppm |
| Concentration per Run 2 | 96.2170 % | 102.0362 % | 104.1091 % | 101.4658 % | 102.3001 % | 103.2987 % | 0.0010 ppm |
| Concentration per Run 3 | 95.6822 % | 101.9998 % | 104.1474 % | 103.5451 % | 102.4388 % | 103.5259 % | 0.0017 ppm |
| Concentration RSD | 1.3 % | 0.2 % | 0.1 % | 4.8 % | 0.3 % | 0.3 % | 39.7 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 12:02:48 PM
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 | 0.4711 ppm | 0.4980 ppm | 0.4682 ppm | 0.4816 ppm | 0.4870 ppm | 0.4936 ppm | 0.4977 ppm |
| Concentration per Run 1 | 0.4725 ppm | 0.5173 ppm | 0.4658 ppm | 0.4809 ppm | 0.5025 ppm | 0.5086 ppm | 0.5110 ppm |
| Concentration per Run 2 | 0.4705 ppm | 0.4936 ppm | 0.4649 ppm | 0.4786 ppm | 0.4809 ppm | 0.4855 ppm | 0.4898 ppm |
| Concentration per Run 3 | 0.4702 ppm | 0.4832 ppm | 0.4737 ppm | 0.4854 ppm | 0.4776 ppm | 0.4868 ppm | 0.4922 ppm |
| Recovery Percentage 1 | 94.218 % | 99.608 % | 93.635 % | 96.329 % | 97.398 % | 98.723 % | 99.535 % |
| Concentration RSD | 0.3 % | 3.5 % | 1.0 % | 0.7 % | 2.8 % | 2.6 % | 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 | 0.4799 ppm | 0.4961 ppm | 0.4829 ppm | 0.4692 ppm | 0.4757 ppm | 5.2030 ppm | 0.4920 ppm |
| Concentration per Run 1 | 0.4776 ppm | 0.4951 ppm | 0.4833 ppm | 0.4704 ppm | 0.4926 ppm | 5.3725 ppm | 0.4937 ppm |
| Concentration per Run 2 | 0.4774 ppm | 0.4926 ppm | 0.4840 ppm | 0.4672 ppm | 0.4675 ppm | 5.1095 ppm | 0.4907 ppm |
| Concentration per Run 3 | 0.4847 ppm | 0.5007 ppm | 0.4814 ppm | 0.4699 ppm | 0.4671 ppm | 5.1269 ppm | 0.4916 ppm |
| Recovery Percentage 1 | 95.978 % | 99.227 % | 96.573 % | 93.833 % | 95.148 % | 104.059 % | 98.402 % |
| Concentration RSD | 0.9 % | 0.8 % | 0.3 % | 0.4 % | 3.1 % | 2.8 % | 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 | 0.4637 ppm | 0.4795 ppm | 10.1647 ppm | 0.4918 ppm | 0.4955 ppm | 0.4962 ppm | 0.4812 ppm |
| Concentration per Run 1 | 0.4766 ppm | 0.4773 ppm | 10.4747 ppm | 0.4894 ppm | 0.4948 ppm | 0.4971 ppm | 0.4801 ppm |
| Concentration per Run 2 | 0.4564 ppm | 0.4747 ppm | 10.0359 ppm | 0.4891 ppm | 0.4918 ppm | 0.4898 ppm | 0.4784 ppm |
| Concentration per Run 3 | 0.4579 ppm | 0.4866 ppm | 9.9834 ppm | 0.4970 ppm | 0.4998 ppm | 0.5016 ppm | 0.4851 ppm |
| Recovery Percentage 1 | 92.733 % | 95.906 % | 101.647 % | 98.367 % | 99.093 % | 99.233 % | 96.241 % |
| Concentration RSD | 2.4 % | 1.3 % | 2.7 % | 0.9 % | 0.8 % | 1.2 % | 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 | 5.5013 ppm | 0.4833 ppm | 0.5071 ppm | 0.4932 ppm | 0.4968 ppm | 0.4811 ppm | 0.4946 ppm |
| Concentration per Run 1 | 5.4922 ppm | 0.4825 ppm | 0.5237 ppm | 0.4937 ppm | 0.4956 ppm | 0.4827 ppm | 0.4920 ppm |
| Concentration per Run 2 | 5.4564 ppm | 0.4793 ppm | 0.5000 ppm | 0.4940 ppm | 0.4922 ppm | 0.4815 ppm | 0.4925 ppm |
| Concentration per Run 3 | 5.5554 ppm | 0.4880 ppm | 0.4976 ppm | 0.4917 ppm | 0.5027 ppm | 0.4793 ppm | 0.4992 ppm |
| Recovery Percentage 1 | 104.787 % | 96.654 % | 101.427 % | 98.632 % | 99.367 % | 96.230 % | 98.911 % |
| Concentration RSD | 0.9 % | 0.9 % | 2.8 % | 0.3 % | 1.1 % | 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 | 95.8229 % | 101.5396 % | 104.1173 % | 106.3923 % | 99.4521 % | 103.6292 % | 0.5030 ppm |
| Concentration per Run 1 | 94.8404 % | 101.4672 % | 104.5775 % | 104.0813 % | 99.8632 % | 103.4864 % | 0.5181 ppm |
| Concentration per Run 2 | 96.9985 % | 101.7032 % | 103.6433 % | 107.9300 % | 99.9433 % | 103.7068 % | 0.4983 ppm |
| Concentration per Run 3 | 95.6298 % | 101.4483 % | 104.1311 % | 107.1655 % | 98.5497 % | 103.6945 % | 0.4927 ppm |
| Recovery Percentage 1 | | | | | | | 100.602 % |
| Concentration RSD | 1.1 % | 0.1 % | 0.4 % | 1.9 % | 0.8 % | 0.1 % | 2.7 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/19/2024 12:09:14 PM
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 | 0.0000 ppm | 0.0057 ppm | 0.0000 ppm | 0.0000 ppm | -0.0021 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0060 ppm | 0.0003 ppm | 0.0057 ppm | 0.0000 ppm | 0.0000 ppm | -0.0079 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0034 ppm | -0.0001 ppm | 0.0060 ppm | 0.0000 ppm | 0.0000 ppm | -0.0005 ppm |
| Concentration per Run 3 | 0.0002 ppm | -0.0001 ppm | -0.0001 ppm | 0.0055 ppm | -0.0001 ppm | 0.0000 ppm | 0.0020 ppm |
| Recovery Percentage 1 | 1.142 % | 0.840 % | 0.186 % | 19.099 % | 0.001 % | -0.145 % | -2.117 % |
| Concentration RSD | 162.3 % | 562.2 % | 2,823.7 % | 4.3 % | 115,202.7 % | 181.6 % | 244.0 % |

| | 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 | -0.0002 ppm | -0.0002 ppm | -0.0017 ppm | 0.0298 ppm | -0.0007 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0001 ppm | -0.0002 ppm | -0.0003 ppm | 0.0004 ppm | 0.0213 ppm | 0.0022 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | -0.0003 ppm | -0.0011 ppm | 0.0411 ppm | -0.0011 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0002 ppm | -0.0002 ppm | -0.0001 ppm | -0.0045 ppm | 0.0270 ppm | -0.0031 ppm |
| Recovery Percentage 1 | 1.189 % | 0.134 % | -1.618 % | -2.467 % | -3.458 % | 1.191 % | -0.669 % |
| Concentration RSD | 53.2 % | 482.1 % | 66.3 % | 39.4 % | 143.3 % | 34.2 % | 394.4 % |

| | 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 | 0.0009 ppm | 0.0018 ppm | -0.0001 ppm | 0.0003 ppm | 0.0012 ppm | -0.0007 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.0010 ppm | 0.0041 ppm | -0.0002 ppm | 0.0005 ppm | 0.0012 ppm | 0.0003 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0009 ppm | 0.0035 ppm | -0.0002 ppm | 0.0005 ppm | 0.0013 ppm | -0.0030 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0006 ppm | -0.0021 ppm | 0.0000 ppm | 0.0001 ppm | 0.0011 ppm | 0.0007 ppm |
| Recovery Percentage 1 | -0.651 % | 1.718 % | 0.091 % | -0.492 % | 3.369 % | 2.399 % | -6.624 % |
| Concentration RSD | 392.3 % | 23.7 % | 186.1 % | 120.6 % | 61.4 % | 9.0 % | 308.1 % |

| | 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 | 0.0000 ppm | 0.0001 ppm | 0.0000 ppm | 0.0002 ppm | 0.0007 ppm | -0.0001 ppm | -0.0010 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0001 ppm | 0.0000 ppm | 0.0001 ppm | 0.0010 ppm | 0.0000 ppm | -0.0010 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0002 ppm | 0.0001 ppm | 0.0002 ppm | 0.0002 ppm | -0.0003 ppm | -0.0010 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0000 ppm | 0.0000 ppm | 0.0003 ppm | 0.0010 ppm | 0.0000 ppm | -0.0010 ppm |
| Recovery Percentage 1 | -0.004 % | 0.199 % | 0.265 % | 2.314 % | 3.578 % | -1.133 % | -20.193 % |
| Concentration RSD | 1,028.3 % | 111.2 % | 91.8 % | 42.0 % | 62.4 % | 166.3 % | 4.2 % |

| | 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 | 96.9873 % | 101.5167 % | 103.6434 % | 96.0197 % | 102.3660 % | 101.2808 % | 0.0008 ppm |
| Concentration per Run 1 | 94.9018 % | 101.7702 % | 103.6373 % | 89.4235 % | 101.8635 % | 101.1877 % | 0.0011 ppm |
| Concentration per Run 2 | 98.6803 % | 101.5563 % | 103.4887 % | 98.5403 % | 102.2555 % | 101.3825 % | 0.0007 ppm |
| Concentration per Run 3 | 97.3798 % | 101.2237 % | 103.8043 % | 100.0953 % | 102.9791 % | 101.2722 % | 0.0006 ppm |
| Recovery Percentage 1 | | | | | | | 7.752 % |
| Concentration RSD | 2.0 % | 0.3 % | 0.2 % | 6.0 % | 0.6 % | 0.1 % | 32.6 % |

# ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2011116-1 WG2011116
Analysis started at: 12/19/2024 12:37:49 PM
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 | 0.0001 ppm | 0.0020 ppm | 0.0017 ppm | 0.0083 ppm | 0.0001 ppm | 0.0000 ppm | 0.0274 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0031 ppm | 0.0013 ppm | 0.0086 ppm | 0.0002 ppm | 0.0000 ppm | 0.0304 ppm |
| Concentration per Run 2 | 0.0002 ppm | -0.0003 ppm | 0.0036 ppm | 0.0081 ppm | 0.0001 ppm | -0.0001 ppm | 0.0256 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0093 ppm | 0.0004 ppm | 0.0082 ppm | 0.0001 ppm | 0.0000 ppm | 0.0263 ppm |
| Recovery Percentage 1 | 1.723 % | 1.989 % | 34.947 % | 27.643 % | 1.147 % | -0.498 % | 27.443 % |
| Concentration RSD | 66.7 % | 324.8 % | 94.7 % | 3.0 % | 43.4 % | 111.2 % | 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 | 0.0000 ppm | -0.0003 ppm | 0.0001 ppm | 0.0002 ppm | 0.0023 ppm | 0.0750 ppm | 0.0055 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0003 ppm | 0.0000 ppm | 0.0002 ppm | 0.0019 ppm | 0.0804 ppm | 0.0060 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0002 ppm | 0.0000 ppm | 0.0003 ppm | 0.0025 ppm | 0.0876 ppm | 0.0040 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0004 ppm | 0.0002 ppm | 0.0003 ppm | 0.0025 ppm | 0.0569 ppm | 0.0066 ppm |
| Recovery Percentage 1 | 1.036 % | -1.474 % | 0.612 % | 2.305 % | 4.553 % | 2.998 % | 5.515 % |
| Concentration RSD | 5.2 % | 36.0 % | 156.7 % | 30.3 % | 15.5 % | 21.4 % | 24.6 % |

| | 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 | 0.0001 ppm | 139.2708 ppm | -0.0006 ppm | 0.0002 ppm | 0.0015 ppm | 0.0006 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0001 ppm | 138.6731 ppm | -0.0004 ppm | 0.0001 ppm | 0.0023 ppm | 0.0009 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0001 ppm | 140.0160 ppm | -0.0007 ppm | 0.0003 ppm | 0.0002 ppm | -0.0011 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0002 ppm | 139.1235 ppm | -0.0009 ppm | 0.0002 ppm | 0.0019 ppm | 0.0020 ppm |
| Recovery Percentage 1 | -0.745 % | 0.291 % | 6,963.542 % | -2.592 % | 2.266 % | 2.952 % | 6.208 % |
| Concentration RSD | 182.1 % | 42.8 % | 0.5 % | 37.3 % | 42.2 % | 76.9 % | 249.6 % |

| | 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 | 0.0345 ppm | 0.0021 ppm | 0.0001 ppm | 0.0000 ppm | -0.0032 ppm | -0.0001 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0374 ppm | 0.0021 ppm | 0.0002 ppm | 0.0000 ppm | -0.0018 ppm | 0.0000 ppm | 0.0001 ppm |
| Concentration per Run 2 | 0.0342 ppm | 0.0024 ppm | 0.0001 ppm | 0.0001 ppm | -0.0047 ppm | -0.0001 ppm | 0.0002 ppm |
| Concentration per Run 3 | 0.0319 ppm | 0.0019 ppm | 0.0001 ppm | -0.0001 ppm | -0.0033 ppm | -0.0002 ppm | 0.0001 ppm |
| Recovery Percentage 1 | 6.903 % | 4.222 % | 1.331 % | 0.011 % | -16.193 % | -1.032 % | 2.443 % |
| Concentration RSD | 7.9 % | 12.4 % | 59.1 % | 9,769.5 % | 44.9 % | 70.2 % | 45.8 % |

| | 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 | 94.1795 % | 97.8687 % | 98.7359 % | 106.5206 % | 87.5136 % | 100.0270 % | 0.0033 ppm |
| Concentration per Run 1 | 94.5107 % | 98.2490 % | 98.8063 % | 106.3781 % | 87.7203 % | 100.2616 % | 0.0031 ppm |
| Concentration per Run 2 | 93.6765 % | 97.4469 % | 98.6045 % | 106.1016 % | 87.2543 % | 99.7895 % | 0.0033 ppm |
| Concentration per Run 3 | 94.3512 % | 97.9102 % | 98.7969 % | 107.0821 % | 87.5663 % | 100.0299 % | 0.0035 ppm |
| Recovery Percentage 1 | | | | | | | 32.979 % |
| Concentration RSD | 0.5 % | 0.4 % | 0.1 % | 0.5 % | 0.3 % | 0.2 % | 7.3 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2011116-2 WG2011116
Analysis started at: 12/19/2024 12:44:35 PM
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 | 0.0495 ppm | 2.0409 ppm | 0.1200 ppm | 0.9808 ppm | 1.9848 ppm | 0.0504 ppm | 10.1331 ppm |
| Concentration per Run 1 | 0.0496 ppm | 2.0605 ppm | 0.1182 ppm | 0.9756 ppm | 2.0020 ppm | 0.0509 ppm | 10.1980 ppm |
| Concentration per Run 2 | 0.0499 ppm | 2.0172 ppm | 0.1195 ppm | 0.9843 ppm | 1.9664 ppm | 0.0501 ppm | 10.0050 ppm |
| Concentration per Run 3 | 0.0491 ppm | 2.0450 ppm | 0.1222 ppm | 0.9826 ppm | 1.9861 ppm | 0.0503 ppm | 10.1965 ppm |
| Concentration RSD | 0.8 % | 1.1 % | 1.7 % | 0.5 % | 0.9 % | 0.8 % | 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 | 0.0541 ppm | 0.5331 ppm | 0.1997 ppm | 0.2548 ppm | 0.9815 ppm | 10.1956 ppm | 9.7278 ppm |
| Concentration per Run 1 | 0.0538 ppm | 0.5309 ppm | 0.2001 ppm | 0.2538 ppm | 0.9895 ppm | 10.2960 ppm | 9.7282 ppm |
| Concentration per Run 2 | 0.0544 ppm | 0.5352 ppm | 0.2006 ppm | 0.2558 ppm | 0.9666 ppm | 10.0947 ppm | 9.7737 ppm |
| Concentration per Run 3 | 0.0541 ppm | 0.5332 ppm | 0.1982 ppm | 0.2547 ppm | 0.9883 ppm | 10.1960 ppm | 9.6816 ppm |
| Concentration RSD | 0.5 % | 0.4 % | 0.6 % | 0.4 % | 1.3 % | 1.0 % | 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 | 0.4847 ppm | 1.0448 ppm | 10.5564 ppm | 0.5262 ppm | 0.5526 ppm | 0.5251 ppm | 0.1179 ppm |
| Concentration per Run 1 | 0.4892 ppm | 1.0360 ppm | 10.6514 ppm | 0.5237 ppm | 0.5485 ppm | 0.5241 ppm | 0.1147 ppm |
| Concentration per Run 2 | 0.4801 ppm | 1.0524 ppm | 10.4667 ppm | 0.5282 ppm | 0.5553 ppm | 0.5268 ppm | 0.1194 ppm |
| Concentration per Run 3 | 0.4849 ppm | 1.0461 ppm | 10.5510 ppm | 0.5267 ppm | 0.5539 ppm | 0.5245 ppm | 0.1196 ppm |
| Concentration RSD | 0.9 % | 0.8 % | 0.9 % | 0.4 % | 0.7 % | 0.3 % | 2.4 % |

| | 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 | 1.5701 ppm | 0.9865 ppm | 0.9769 ppm | 1.0181 ppm | 0.1205 ppm | 0.5057 ppm | 0.5320 ppm |
| Concentration per Run 1 | 1.5615 ppm | 0.9819 ppm | 0.9844 ppm | 1.0163 ppm | 0.1200 ppm | 0.5056 ppm | 0.5287 ppm |
| Concentration per Run 2 | 1.5762 ppm | 0.9887 ppm | 0.9685 ppm | 1.0241 ppm | 0.1208 ppm | 0.5083 ppm | 0.5340 ppm |
| Concentration per Run 3 | 1.5727 ppm | 0.9888 ppm | 0.9778 ppm | 1.0141 ppm | 0.1208 ppm | 0.5031 ppm | 0.5332 ppm |
| Concentration RSD | 0.5 % | 0.4 % | 0.8 % | 0.5 % | 0.4 % | 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 | 94.2275 % | 100.1160 % | 101.6929 % | 106.3955 % | 92.2004 % | 101.5971 % | 0.0012 ppm |
| Concentration per Run 1 | 93.8006 % | 99.9065 % | 101.7087 % | 105.4906 % | 92.6631 % | 101.6325 % | 0.0019 ppm |
| Concentration per Run 2 | 94.6950 % | 99.8949 % | 101.7055 % | 107.2851 % | 91.6778 % | 101.0806 % | 0.0005 ppm |
| Concentration per Run 3 | 94.1870 % | 100.5466 % | 101.6644 % | 106.4106 % | 92.2603 % | 102.0783 % | 0.0011 ppm |
| Concentration RSD | 0.5 % | 0.4 % | 0.0 % | 0.8 % | 0.5 % | 0.5 % | 56.9 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2472648-02 WG2011116
Analysis started at: 12/19/2024 12:50:59 PM
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 | 0.0001 ppm | 0.0366 ppm | 0.0029 ppm | 0.0098 ppm | 0.0588 ppm | 0.0000 ppm | 24.7956 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0351 ppm | 0.0024 ppm | 0.0099 ppm | 0.0591 ppm | 0.0000 ppm | 24.7067 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0362 ppm | 0.0030 ppm | 0.0098 ppm | 0.0585 ppm | 0.0000 ppm | 24.6907 ppm |
| Concentration per Run 3 | 0.0003 ppm | 0.0385 ppm | 0.0032 ppm | 0.0097 ppm | 0.0587 ppm | 0.0000 ppm | 24.9894 ppm |
| Concentration RSD | 147.2 % | 4.8 % | 14.0 % | 1.2 % | 0.5 % | 62.5 % | 0.7 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0002 ppm | 0.0040 ppm | 0.0008 ppm | 0.0033 ppm | 0.0473 ppm | 1.6653 ppm | 1.7139 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0040 ppm | 0.0008 ppm | 0.0033 ppm | 0.0465 ppm | 1.6929 ppm | 1.7075 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.0040 ppm | 0.0006 ppm | 0.0032 ppm | 0.0459 ppm | 1.6581 ppm | 1.7239 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0040 ppm | 0.0009 ppm | 0.0032 ppm | 0.0496 ppm | 1.6449 ppm | 1.7104 ppm |
| Concentration RSD | 15.1 % | 0.9 % | 20.5 % | 1.7 % | 4.2 % | 1.5 % | 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 | 0.3748 ppm | 0.0016 ppm | 138.4290 ppm | 0.0042 ppm | 0.0351 ppm | 0.0027 ppm | 0.0028 ppm |
| Concentration per Run 1 | 0.3738 ppm | 0.0018 ppm | 138.8230 ppm | 0.0041 ppm | 0.0351 ppm | 0.0026 ppm | 0.0030 ppm |
| Concentration per Run 2 | 0.3733 ppm | 0.0015 ppm | 138.2614 ppm | 0.0042 ppm | 0.0347 ppm | 0.0043 ppm | 0.0025 ppm |
| Concentration per Run 3 | 0.3771 ppm | 0.0015 ppm | 138.2026 ppm | 0.0042 ppm | 0.0353 ppm | 0.0011 ppm | 0.0030 ppm |
| Concentration RSD | 0.6 % | 10.7 % | 0.2 % | 1.8 % | 0.9 % | 61.1 % | 11.4 % |

| | 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 | 0.6805 ppm | 0.0017 ppm | 0.0945 ppm | 0.0001 ppm | -0.0029 ppm | -0.0003 ppm | 0.0296 ppm |
| Concentration per Run 1 | 0.6777 ppm | 0.0014 ppm | 0.0945 ppm | 0.0001 ppm | -0.0026 ppm | -0.0003 ppm | 0.0294 ppm |
| Concentration per Run 2 | 0.6815 ppm | 0.0016 ppm | 0.0942 ppm | 0.0004 ppm | -0.0038 ppm | -0.0001 ppm | 0.0296 ppm |
| Concentration per Run 3 | 0.6823 ppm | 0.0020 ppm | 0.0946 ppm | -0.0002 ppm | -0.0022 ppm | -0.0006 ppm | 0.0298 ppm |
| Concentration RSD | 0.4 % | 15.9 % | 0.2 % | 384.6 % | 30.3 % | 83.3 % | 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 | 94.7802 % | 96.8125 % | 96.8132 % | 106.6595 % | 85.3005 % | 98.7414 % | 0.0039 ppm |
| Concentration per Run 1 | 95.4433 % | 97.1657 % | 96.7752 % | 107.3715 % | 85.3246 % | 99.0163 % | 0.0036 ppm |
| Concentration per Run 2 | 94.5217 % | 96.8565 % | 96.8262 % | 106.5923 % | 85.1560 % | 98.8161 % | 0.0030 ppm |
| Concentration per Run 3 | 94.3757 % | 96.4154 % | 96.8380 % | 106.0146 % | 85.4207 % | 98.3917 % | 0.0052 ppm |
| Concentration RSD | 0.6 % | 0.4 % | 0.0 % | 0.6 % | 0.2 % | 0.3 % | 27.7 % |

# ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2011116-3 WG2011116
Analysis started at: 12/19/2024 12:57:41 PM
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 | 0.0501 ppm | 2.0246 ppm | 0.1316 ppm | 1.0495 ppm | 1.9970 ppm | 0.0493 ppm | 33.4611 ppm |
| Concentration per Run 1 | 0.0503 ppm | 1.9834 ppm | 0.1320 ppm | 1.0442 ppm | 1.9671 ppm | 0.0486 ppm | 32.9260 ppm |
| Concentration per Run 2 | 0.0499 ppm | 2.0334 ppm | 0.1316 ppm | 1.0607 ppm | 2.0067 ppm | 0.0492 ppm | 33.6142 ppm |
| Concentration per Run 3 | 0.0500 ppm | 2.0568 ppm | 0.1310 ppm | 1.0435 ppm | 2.0171 ppm | 0.0500 ppm | 33.8431 ppm |
| Concentration RSD | 0.4 % | 1.9 % | 0.4 % | 0.9 % | 1.3 % | 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 | 0.0560 ppm | 0.5488 ppm | 0.1960 ppm | 0.2600 ppm | 1.0023 ppm | 11.7826 ppm | 10.9520 ppm |
| Concentration per Run 1 | 0.0557 ppm | 0.5463 ppm | 0.1957 ppm | 0.2603 ppm | 0.9878 ppm | 11.6005 ppm | 10.9534 ppm |
| Concentration per Run 2 | 0.0566 ppm | 0.5537 ppm | 0.1967 ppm | 0.2597 ppm | 1.0080 ppm | 11.8631 ppm | 10.9861 ppm |
| Concentration per Run 3 | 0.0558 ppm | 0.5463 ppm | 0.1955 ppm | 0.2602 ppm | 1.0110 ppm | 11.8841 ppm | 10.9164 ppm |
| Concentration RSD | 0.8 % | 0.8 % | 0.3 % | 0.1 % | 1.3 % | 1.3 % | 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 | 0.8239 ppm | 1.0963 ppm | 144.0638 ppm | 0.5408 ppm | 0.5910 ppm | 0.5558 ppm | 0.1299 ppm |
| Concentration per Run 1 | 0.8097 ppm | 1.0904 ppm | 141.7578 ppm | 0.5389 ppm | 0.5888 ppm | 0.5552 ppm | 0.1302 ppm |
| Concentration per Run 2 | 0.8292 ppm | 1.1045 ppm | 144.9933 ppm | 0.5451 ppm | 0.5949 ppm | 0.5584 ppm | 0.1288 ppm |
| Concentration per Run 3 | 0.8328 ppm | 1.0940 ppm | 145.4401 ppm | 0.5386 ppm | 0.5892 ppm | 0.5539 ppm | 0.1307 ppm |
| Concentration RSD | 1.5 % | 0.7 % | 1.4 % | 0.7 % | 0.6 % | 0.4 % | 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 | 2.3498 ppm | 1.0088 ppm | 1.0442 ppm | 1.0134 ppm | 0.1167 ppm | 0.5030 ppm | 0.5806 ppm |
| Concentration per Run 1 | 2.3467 ppm | 1.0040 ppm | 1.0284 ppm | 1.0134 ppm | 0.1146 ppm | 0.5024 ppm | 0.5771 ppm |
| Concentration per Run 2 | 2.3646 ppm | 1.0155 ppm | 1.0493 ppm | 1.0135 ppm | 0.1187 ppm | 0.5035 ppm | 0.5853 ppm |
| Concentration per Run 3 | 2.3382 ppm | 1.0068 ppm | 1.0548 ppm | 1.0135 ppm | 0.1170 ppm | 0.5032 ppm | 0.5796 ppm |
| Concentration RSD | 0.6 % | 0.6 % | 1.3 % | 0.0 % | 1.8 % | 0.1 % | 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 | 95.1592 % | 97.0052 % | 96.1525 % | 108.4193 % | 83.6861 % | 98.6227 % | 0.0036 ppm |
| Concentration per Run 1 | 96.9622 % | 97.0187 % | 96.2517 % | 110.3914 % | 83.8895 % | 98.7496 % | 0.0036 ppm |
| Concentration per Run 2 | 94.6076 % | 97.3217 % | 95.5569 % | 107.8167 % | 82.9385 % | 98.8824 % | 0.0040 ppm |
| Concentration per Run 3 | 93.9079 % | 96.6753 % | 96.6490 % | 107.0498 % | 84.2303 % | 98.2361 % | 0.0033 ppm |
| Concentration RSD | 1.7 % | 0.3 % | 0.6 % | 1.6 % | 0.8 % | 0.3 % | 9.0 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2011116-4 WG2011116
Analysis started at: 12/19/2024 1:04:06 PM
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 | 0.0364 ppm | 0.0020 ppm | 0.0095 ppm | 0.0575 ppm | 0.0000 ppm | 24.2057 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0317 ppm | 0.0030 ppm | 0.0097 ppm | 0.0578 ppm | 0.0000 ppm | 24.2782 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.0364 ppm | 0.0019 ppm | 0.0094 ppm | 0.0574 ppm | 0.0000 ppm | 24.0252 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0410 ppm | 0.0010 ppm | 0.0093 ppm | 0.0573 ppm | 0.0000 ppm | 24.3138 ppm |
| Concentration RSD | 74.0 % | 12.8 % | 52.5 % | 2.2 % | 0.4 % | 146.5 % | 0.7 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0001 ppm | 0.0040 ppm | 0.0009 ppm | 0.0036 ppm | 0.0454 ppm | 1.6566 ppm | 1.6846 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0041 ppm | 0.0009 ppm | 0.0034 ppm | 0.0451 ppm | 1.6551 ppm | 1.6867 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0040 ppm | 0.0009 ppm | 0.0039 ppm | 0.0453 ppm | 1.6565 ppm | 1.6839 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0039 ppm | 0.0008 ppm | 0.0034 ppm | 0.0459 ppm | 1.6582 ppm | 1.6831 ppm |
| Concentration RSD | 2.8 % | 2.5 % | 5.4 % | 7.5 % | 0.9 % | 0.1 % | 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 | 0.3658 ppm | 0.0019 ppm | 135.3246 ppm | 0.0041 ppm | 0.0347 ppm | 0.0024 ppm | 0.0030 ppm |
| Concentration per Run 1 | 0.3676 ppm | 0.0020 ppm | 135.8566 ppm | 0.0039 ppm | 0.0345 ppm | 0.0023 ppm | 0.0043 ppm |
| Concentration per Run 2 | 0.3623 ppm | 0.0019 ppm | 135.2468 ppm | 0.0039 ppm | 0.0350 ppm | 0.0017 ppm | 0.0034 ppm |
| Concentration per Run 3 | 0.3676 ppm | 0.0018 ppm | 134.8705 ppm | 0.0043 ppm | 0.0347 ppm | 0.0033 ppm | 0.0015 ppm |
| Concentration RSD | 0.8 % | 5.3 % | 0.4 % | 5.8 % | 0.8 % | 34.0 % | 47.4 % |

| | 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 | 0.6671 ppm | 0.0015 ppm | 0.0921 ppm | 0.0003 ppm | -0.0035 ppm | -0.0002 ppm | 0.0287 ppm |
| Concentration per Run 1 | 0.6677 ppm | 0.0014 ppm | 0.0925 ppm | 0.0002 ppm | -0.0032 ppm | -0.0004 ppm | 0.0287 ppm |
| Concentration per Run 2 | 0.6642 ppm | 0.0017 ppm | 0.0920 ppm | 0.0002 ppm | -0.0038 ppm | -0.0001 ppm | 0.0286 ppm |
| Concentration per Run 3 | 0.6693 ppm | 0.0015 ppm | 0.0917 ppm | 0.0004 ppm | -0.0035 ppm | -0.0003 ppm | 0.0288 ppm |
| Concentration RSD | 0.4 % | 8.5 % | 0.4 % | 48.4 % | 8.8 % | 61.5 % | 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 | 95.1876 % | 97.2314 % | 97.2310 % | 107.4428 % | 85.7495 % | 99.0766 % | 0.0034 ppm |
| Concentration per Run 1 | 95.7273 % | 97.3923 % | 97.0466 % | 107.1892 % | 85.6501 % | 99.1989 % | 0.0040 ppm |
| Concentration per Run 2 | 95.0241 % | 96.9829 % | 97.4650 % | 107.9271 % | 85.9482 % | 98.7952 % | 0.0032 ppm |
| Concentration per Run 3 | 94.8114 % | 97.3190 % | 97.1814 % | 107.2122 % | 85.6502 % | 99.2359 % | 0.0029 ppm |
| Concentration RSD | 0.5 % | 0.2 % | 0.2 % | 0.4 % | 0.2 % | 0.2 % | 17.2 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2472648-04 WG2011116
Analysis started at: 12/19/2024 1:10:48 PM
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 | 0.0002 ppm | 0.0457 ppm | 0.0024 ppm | 0.0074 ppm | 0.0545 ppm | 0.0000 ppm | 19.2631 ppm |
| Concentration per Run 1 | 0.0003 ppm | 0.0413 ppm | 0.0013 ppm | 0.0074 ppm | 0.0547 ppm | 0.0000 ppm | 19.3517 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0448 ppm | 0.0037 ppm | 0.0075 ppm | 0.0545 ppm | 0.0000 ppm | 19.2871 ppm |
| Concentration per Run 3 | 0.0004 ppm | 0.0511 ppm | 0.0022 ppm | 0.0072 ppm | 0.0542 ppm | 0.0001 ppm | 19.1505 ppm |
| Concentration RSD | 91.2 % | 10.9 % | 50.5 % | 1.4 % | 0.4 % | 67.2 % | 0.5 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0002 ppm | 0.0036 ppm | 0.0007 ppm | 0.0046 ppm | 0.0784 ppm | 1.4941 ppm | 1.7454 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.0035 ppm | 0.0007 ppm | 0.0048 ppm | 0.0788 ppm | 1.5107 ppm | 1.7403 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0034 ppm | 0.0006 ppm | 0.0045 ppm | 0.0775 ppm | 1.4895 ppm | 1.7494 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0037 ppm | 0.0007 ppm | 0.0044 ppm | 0.0790 ppm | 1.4822 ppm | 1.7465 ppm |
| Concentration RSD | 28.5 % | 4.3 % | 5.6 % | 4.0 % | 1.0 % | 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 | 0.3582 ppm | 0.0007 ppm | 135.2944 ppm | 0.0045 ppm | 0.0475 ppm | 0.0020 ppm | 0.0012 ppm |
| Concentration per Run 1 | 0.3591 ppm | 0.0006 ppm | 135.7176 ppm | 0.0047 ppm | 0.0485 ppm | 0.0015 ppm | 0.0030 ppm |
| Concentration per Run 2 | 0.3594 ppm | 0.0006 ppm | 135.4981 ppm | 0.0042 ppm | 0.0471 ppm | 0.0022 ppm | -0.0015 ppm |
| Concentration per Run 3 | 0.3562 ppm | 0.0008 ppm | 134.6674 ppm | 0.0046 ppm | 0.0468 ppm | 0.0023 ppm | 0.0022 ppm |
| Concentration RSD | 0.5 % | 13.9 % | 0.4 % | 5.7 % | 1.9 % | 21.9 % | 191.6 % |

| | 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 | 0.8815 ppm | 0.0018 ppm | 0.0656 ppm | 0.0001 ppm | -0.0037 ppm | -0.0003 ppm | 0.0232 ppm |
| Concentration per Run 1 | 0.8841 ppm | 0.0011 ppm | 0.0657 ppm | 0.0005 ppm | -0.0038 ppm | -0.0004 ppm | 0.0231 ppm |
| Concentration per Run 2 | 0.8814 ppm | 0.0020 ppm | 0.0656 ppm | 0.0000 ppm | -0.0030 ppm | -0.0003 ppm | 0.0231 ppm |
| Concentration per Run 3 | 0.8789 ppm | 0.0023 ppm | 0.0655 ppm | -0.0001 ppm | -0.0043 ppm | -0.0002 ppm | 0.0233 ppm |
| Concentration RSD | 0.3 % | 35.3 % | 0.2 % | 246.7 % | 18.7 % | 44.9 % | 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 | 95.4100 % | 96.8663 % | 97.4478 % | 107.4258 % | 86.3695 % | 98.3494 % | 0.0027 ppm |
| Concentration per Run 1 | 96.0540 % | 96.1359 % | 97.4306 % | 107.1830 % | 86.3169 % | 97.6688 % | 0.0027 ppm |
| Concentration per Run 2 | 94.8655 % | 97.3746 % | 97.4137 % | 107.5050 % | 86.3046 % | 98.6494 % | 0.0023 ppm |
| Concentration per Run 3 | 95.3106 % | 97.0885 % | 97.4990 % | 107.5893 % | 86.4868 % | 98.7299 % | 0.0032 ppm |
| Concentration RSD | 0.6 % | 0.7 % | 0.0 % | 0.2 % | 0.1 % | 0.6 % | 17.1 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2472648-06 WG2011116
Analysis started at: 12/19/2024 1:17:30 PM
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 | 0.0523 ppm | 0.0025 ppm | 0.0100 ppm | 0.0512 ppm | 0.0000 ppm | 20.0210 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0567 ppm | 0.0024 ppm | 0.0102 ppm | 0.0506 ppm | 0.0000 ppm | 19.9565 ppm |
| Concentration per Run 2 | 0.0003 ppm | 0.0447 ppm | 0.0017 ppm | 0.0100 ppm | 0.0511 ppm | 0.0000 ppm | 20.0162 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0554 ppm | 0.0034 ppm | 0.0099 ppm | 0.0518 ppm | 0.0000 ppm | 20.0903 ppm |
| Concentration RSD | 4,205.7 % | 12.6 % | 34.0 % | 1.6 % | 1.1 % | 271.2 % | 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 | 0.0001 ppm | 0.0039 ppm | 0.0005 ppm | 0.0061 ppm | 0.2445 ppm | 1.0446 ppm | 1.8064 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0039 ppm | 0.0004 ppm | 0.0062 ppm | 0.2462 ppm | 1.0130 ppm | 1.8099 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0039 ppm | 0.0005 ppm | 0.0060 ppm | 0.2440 ppm | 1.0481 ppm | 1.8051 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0040 ppm | 0.0005 ppm | 0.0061 ppm | 0.2433 ppm | 1.0728 ppm | 1.8043 ppm |
| Concentration RSD | 12.8 % | 0.3 % | 5.9 % | 2.0 % | 0.6 % | 2.9 % | 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 | 0.3878 ppm | 0.0004 ppm | 137.5240 ppm | 0.0043 ppm | 0.0552 ppm | 0.0021 ppm | 0.0026 ppm |
| Concentration per Run 1 | 0.3854 ppm | 0.0004 ppm | 136.2872 ppm | 0.0045 ppm | 0.0556 ppm | 0.0020 ppm | 0.0036 ppm |
| Concentration per Run 2 | 0.3884 ppm | 0.0003 ppm | 137.4711 ppm | 0.0041 ppm | 0.0550 ppm | 0.0022 ppm | 0.0012 ppm |
| Concentration per Run 3 | 0.3895 ppm | 0.0004 ppm | 138.8138 ppm | 0.0042 ppm | 0.0551 ppm | 0.0022 ppm | 0.0028 ppm |
| Concentration RSD | 0.5 % | 22.0 % | 0.9 % | 4.5 % | 0.5 % | 6.0 % | 47.4 % |

| | 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 | 0.8275 ppm | 0.0012 ppm | 0.0719 ppm | 0.0003 ppm | -0.0039 ppm | -0.0004 ppm | 0.0240 ppm |
| Concentration per Run 1 | 0.8294 ppm | 0.0012 ppm | 0.0714 ppm | 0.0005 ppm | -0.0039 ppm | -0.0004 ppm | 0.0238 ppm |
| Concentration per Run 2 | 0.8278 ppm | 0.0009 ppm | 0.0717 ppm | 0.0003 ppm | -0.0040 ppm | -0.0005 ppm | 0.0240 ppm |
| Concentration per Run 3 | 0.8253 ppm | 0.0015 ppm | 0.0725 ppm | 0.0000 ppm | -0.0037 ppm | -0.0005 ppm | 0.0241 ppm |
| Concentration RSD | 0.3 % | 21.8 % | 0.8 % | 111.2 % | 4.6 % | 15.2 % | 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 | 95.3172 % | 96.7975 % | 96.8044 % | 107.5957 % | 85.4346 % | 98.6829 % | 0.0031 ppm |
| Concentration per Run 1 | 96.0635 % | 96.8552 % | 96.7908 % | 108.2235 % | 85.4995 % | 98.7046 % | 0.0030 ppm |
| Concentration per Run 2 | 95.0214 % | 96.8134 % | 96.5591 % | 107.8239 % | 85.0628 % | 98.7614 % | 0.0028 ppm |
| Concentration per Run 3 | 94.8666 % | 96.7241 % | 97.0634 % | 106.7397 % | 85.7416 % | 98.5827 % | 0.0036 ppm |
| Concentration RSD | 0.7 % | 0.1 % | 0.3 % | 0.7 % | 0.4 % | 0.1 % | 12.9 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2472649-02 WG2011116
Analysis started at: 12/19/2024 1:24:07 PM
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 | 0.0000 ppm | 0.0056 ppm | 0.0016 ppm | 0.0077 ppm | 0.0383 ppm | 0.0000 ppm | 34.0009 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0000 ppm | 0.0021 ppm | 0.0077 ppm | 0.0389 ppm | 0.0000 ppm | 34.4402 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0056 ppm | 0.0010 ppm | 0.0082 ppm | 0.0380 ppm | 0.0000 ppm | 33.6831 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0111 ppm | 0.0018 ppm | 0.0073 ppm | 0.0379 ppm | -0.0001 ppm | 33.8794 ppm |
| Concentration RSD | 1,767.5 % | 99.6 % | 36.2 % | 6.3 % | 1.3 % | 201.2 % | 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 | 0.0001 ppm | 0.0001 ppm | 0.0002 ppm | 0.0043 ppm | 0.0034 ppm | 0.8317 ppm | 7.3350 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0003 ppm | -0.0001 ppm | 0.0043 ppm | 0.0024 ppm | 0.8361 ppm | 7.3619 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0001 ppm | 0.0003 ppm | 0.0043 ppm | 0.0048 ppm | 0.8123 ppm | 7.3299 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0001 ppm | 0.0005 ppm | 0.0042 ppm | 0.0031 ppm | 0.8468 ppm | 7.3134 ppm |
| Concentration RSD | 67.1 % | 98.7 % | 129.9 % | 1.4 % | 36.0 % | 2.1 % | 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 | 0.0378 ppm | 0.0003 ppm | 137.3987 ppm | 0.0011 ppm | 0.0355 ppm | 0.0026 ppm | 0.0016 ppm |
| Concentration per Run 1 | 0.0380 ppm | 0.0006 ppm | 139.3806 ppm | 0.0010 ppm | 0.0358 ppm | 0.0022 ppm | 0.0017 ppm |
| Concentration per Run 2 | 0.0380 ppm | 0.0003 ppm | 135.7724 ppm | 0.0013 ppm | 0.0353 ppm | 0.0023 ppm | 0.0019 ppm |
| Concentration per Run 3 | 0.0376 ppm | 0.0000 ppm | 137.0432 ppm | 0.0010 ppm | 0.0354 ppm | 0.0031 ppm | 0.0012 ppm |
| Concentration RSD | 0.6 % | 86.6 % | 1.3 % | 15.1 % | 0.7 % | 18.8 % | 22.0 % |

| | 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 | 0.7465 ppm | 0.0019 ppm | 0.0955 ppm | 0.0004 ppm | -0.0023 ppm | 0.0000 ppm | 0.0145 ppm |
| Concentration per Run 1 | 0.7430 ppm | 0.0019 ppm | 0.0966 ppm | 0.0005 ppm | -0.0024 ppm | -0.0001 ppm | 0.0143 ppm |
| Concentration per Run 2 | 0.7478 ppm | 0.0019 ppm | 0.0945 ppm | 0.0001 ppm | -0.0019 ppm | 0.0000 ppm | 0.0146 ppm |
| Concentration per Run 3 | 0.7487 ppm | 0.0021 ppm | 0.0954 ppm | 0.0004 ppm | -0.0025 ppm | 0.0001 ppm | 0.0145 ppm |
| Concentration RSD | 0.4 % | 7.0 % | 1.1 % | 64.2 % | 15.3 % | 2,400.4 % | 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 | 95.2943 % | 96.5527 % | 96.3823 % | 106.3200 % | 86.1589 % | 98.6189 % | 0.0058 ppm |
| Concentration per Run 1 | 94.9269 % | 96.4891 % | 96.7424 % | 104.8220 % | 86.4467 % | 98.5169 % | 0.0061 ppm |
| Concentration per Run 2 | 95.7265 % | 96.5020 % | 96.3853 % | 107.2457 % | 86.3083 % | 98.6126 % | 0.0058 ppm |
| Concentration per Run 3 | 95.2295 % | 96.6671 % | 96.0192 % | 106.8925 % | 85.7218 % | 98.7274 % | 0.0055 ppm |
| Concentration RSD | 0.4 % | 0.1 % | 0.4 % | 1.2 % | 0.4 % | 0.1 % | 5.5 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2472649-04 WG2011116
Analysis started at: 12/19/2024 1:30:47 PM
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 | 0.0679 ppm | 0.0015 ppm | 0.0063 ppm | 0.0494 ppm | 0.0001 ppm | 16.6928 ppm |
| Concentration per Run 1 | 0.0003 ppm | 0.0657 ppm | 0.0018 ppm | 0.0062 ppm | 0.0493 ppm | 0.0001 ppm | 16.6373 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0650 ppm | 0.0024 ppm | 0.0065 ppm | 0.0496 ppm | 0.0001 ppm | 16.7931 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0730 ppm | 0.0003 ppm | 0.0060 ppm | 0.0492 ppm | 0.0000 ppm | 16.6479 ppm |
| Concentration RSD | 92.4 % | 6.5 % | 71.6 % | 3.8 % | 0.5 % | 38.8 % | 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 | 0.0002 ppm | 0.0046 ppm | 0.0008 ppm | 0.0033 ppm | 0.4567 ppm | 0.5228 ppm | 1.0326 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.0043 ppm | 0.0007 ppm | 0.0031 ppm | 0.4540 ppm | 0.5299 ppm | 1.0304 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0044 ppm | 0.0008 ppm | 0.0035 ppm | 0.4599 ppm | 0.5302 ppm | 1.0297 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0049 ppm | 0.0008 ppm | 0.0033 ppm | 0.4562 ppm | 0.5084 ppm | 1.0378 ppm |
| Concentration RSD | 18.5 % | 6.5 % | 9.7 % | 6.1 % | 0.7 % | 2.4 % | 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 | 0.3476 ppm | 0.0000 ppm | 138.3294 ppm | 0.0043 ppm | 0.0520 ppm | 0.0014 ppm | 0.0008 ppm |
| Concentration per Run 1 | 0.3462 ppm | 0.0001 ppm | 137.6152 ppm | 0.0045 ppm | 0.0526 ppm | -0.0002 ppm | 0.0016 ppm |
| Concentration per Run 2 | 0.3479 ppm | 0.0001 ppm | 138.9975 ppm | 0.0041 ppm | 0.0516 ppm | 0.0018 ppm | 0.0029 ppm |
| Concentration per Run 3 | 0.3486 ppm | 0.0000 ppm | 138.3754 ppm | 0.0044 ppm | 0.0517 ppm | 0.0025 ppm | -0.0021 ppm |
| Concentration RSD | 0.4 % | 121.7 % | 0.5 % | 4.5 % | 1.1 % | 102.9 % | 324.9 % |

| | 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 | 0.8057 ppm | 0.0017 ppm | 0.0592 ppm | 0.0000 ppm | -0.0031 ppm | -0.0002 ppm | 0.0314 ppm |
| Concentration per Run 1 | 0.8097 ppm | 0.0019 ppm | 0.0588 ppm | -0.0001 ppm | -0.0026 ppm | -0.0004 ppm | 0.0316 ppm |
| Concentration per Run 2 | 0.8062 ppm | 0.0022 ppm | 0.0595 ppm | -0.0001 ppm | -0.0046 ppm | -0.0003 ppm | 0.0312 ppm |
| Concentration per Run 3 | 0.8012 ppm | 0.0011 ppm | 0.0594 ppm | 0.0001 ppm | -0.0021 ppm | -0.0001 ppm | 0.0314 ppm |
| Concentration RSD | 0.5 % | 34.0 % | 0.7 % | 520.1 % | 43.5 % | 55.8 % | 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 | 96.0919 % | 97.4911 % | 96.7763 % | 107.9506 % | 85.4776 % | 99.4073 % | 0.0023 ppm |
| Concentration per Run 1 | 96.1850 % | 97.5432 % | 96.7730 % | 107.8798 % | 84.9670 % | 99.3897 % | 0.0027 ppm |
| Concentration per Run 2 | 95.5731 % | 97.4991 % | 96.2991 % | 107.1985 % | 85.3448 % | 99.4524 % | 0.0013 ppm |
| Concentration per Run 3 | 96.5175 % | 97.4309 % | 97.2569 % | 108.7736 % | 86.1212 % | 99.3800 % | 0.0029 ppm |
| Concentration RSD | 0.5 % | 0.1 % | 0.5 % | 0.7 % | 0.7 % | 0.0 % | 38.7 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2472649-06 WG2011116
Analysis started at: 12/19/2024 1:37:25 PM
Rack: 1
Vial: 16

| | Ag 328.068 {103} (Axial) | Al 396.152 {85} (Radial) | As 189.042 {478} (Axial) | B 208.959 {461} (Axial) | Ba 455.403 {74} (Radial) | Be 313.042 {108} (Radial) | Ca 315.887 {107} (Radial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0000 ppm | 0.0115 ppm | 0.0043 ppm | 0.0055 ppm | 0.0611 ppm | 0.0000 ppm | 11.3568 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0103 ppm | 0.0044 ppm | 0.0052 ppm | 0.0583 ppm | 0.0000 ppm | 10.8519 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.0123 ppm | 0.0036 ppm | 0.0054 ppm | 0.0632 ppm | -0.0001 ppm | 11.7866 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0118 ppm | 0.0049 ppm | 0.0058 ppm | 0.0617 ppm | 0.0000 ppm | 11.4319 ppm |
| Concentration RSD | 8,084.1 % | 9.2 % | 15.8 % | 5.4 % | 4.1 % | 30.1 % | 4.2 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0002 ppm | 0.0009 ppm | 0.0001 ppm | 0.0050 ppm | 0.0080 ppm | 2.6726 ppm | 0.4682 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.0009 ppm | -0.0001 ppm | 0.0048 ppm | 0.0072 ppm | 2.5376 ppm | 0.4669 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0009 ppm | 0.0003 ppm | 0.0053 ppm | 0.0086 ppm | 2.7600 ppm | 0.4687 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0009 ppm | 0.0000 ppm | 0.0051 ppm | 0.0081 ppm | 2.7200 ppm | 0.4690 ppm |
| Concentration RSD | 12.6 % | 1.9 % | 281.2 % | 4.4 % | 8.7 % | 4.4 % | 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 | 0.0591 ppm | 0.0003 ppm | 131.4197 ppm | 0.0059 ppm | 0.4440 ppm | 0.1098 ppm | 0.0014 ppm |
| Concentration per Run 1 | 0.0562 ppm | 0.0004 ppm | 125.5340 ppm | 0.0059 ppm | 0.4423 ppm | 0.1105 ppm | 0.0030 ppm |
| Concentration per Run 2 | 0.0615 ppm | 0.0001 ppm | 135.6403 ppm | 0.0058 ppm | 0.4451 ppm | 0.1095 ppm | 0.0011 ppm |
| Concentration per Run 3 | 0.0595 ppm | 0.0003 ppm | 133.0847 ppm | 0.0061 ppm | 0.4446 ppm | 0.1095 ppm | 0.0001 ppm |
| Concentration RSD | 4.5 % | 46.3 % | 4.0 % | 3.0 % | 0.3 % | 0.5 % | 106.7 % |

| | 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 | 0.3238 ppm | 0.0015 ppm | 0.0513 ppm | 0.0002 ppm | -0.0028 ppm | -0.0001 ppm | 0.0200 ppm |
| Concentration per Run 1 | 0.3227 ppm | 0.0019 ppm | 0.0489 ppm | 0.0003 ppm | -0.0019 ppm | 0.0000 ppm | 0.0199 ppm |
| Concentration per Run 2 | 0.3244 ppm | 0.0010 ppm | 0.0531 ppm | 0.0001 ppm | -0.0032 ppm | -0.0002 ppm | 0.0199 ppm |
| Concentration per Run 3 | 0.3242 ppm | 0.0017 ppm | 0.0520 ppm | 0.0001 ppm | -0.0033 ppm | -0.0001 ppm | 0.0202 ppm |
| Concentration RSD | 0.3 % | 28.7 % | 4.2 % | 62.7 % | 28.0 % | 76.6 % | 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 | 96.4616 % | 97.7074 % | 97.2403 % | 108.6435 % | 86.0471 % | 100.0423 % | 0.0030 ppm |
| Concentration per Run 1 | 99.8961 % | 98.0684 % | 97.5097 % | 113.5860 % | 86.6846 % | 100.1266 % | 0.0027 ppm |
| Concentration per Run 2 | 93.7267 % | 97.0269 % | 97.1438 % | 104.5702 % | 85.8091 % | 99.5310 % | 0.0031 ppm |
| Concentration per Run 3 | 95.7619 % | 98.0268 % | 97.0674 % | 107.7741 % | 85.6475 % | 100.4693 % | 0.0033 ppm |
| Concentration RSD | 3.3 % | 0.6 % | 0.2 % | 4.2 % | 0.6 % | 0.5 % | 9.0 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 1:44:04 PM
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 | 0.4737 ppm | 0.5216 ppm | 0.4705 ppm | 0.4859 ppm | 0.5123 ppm | 0.5135 ppm | 0.5164 ppm |
| Concentration per Run 1 | 0.4744 ppm | 0.5202 ppm | 0.4736 ppm | 0.4892 ppm | 0.5111 ppm | 0.5111 ppm | 0.5147 ppm |
| Concentration per Run 2 | 0.4738 ppm | 0.4821 ppm | 0.4713 ppm | 0.4839 ppm | 0.4747 ppm | 0.4750 ppm | 0.4700 ppm |
| Concentration per Run 3 | 0.4728 ppm | 0.5624 ppm | 0.4666 ppm | 0.4845 ppm | 0.5512 ppm | 0.5543 ppm | 0.5645 ppm |
| Recovery Percentage 1 | 94.740 % | 104.315 % | 94.105 % | 97.178 % | 102.462 % | 102.690 % | 103.282 % |
| Concentration RSD | 0.2 % | 7.7 % | 0.8 % | 0.6 % | 7.5 % | 7.7 % | 9.2 % |

| | 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 | 0.4760 ppm | 0.5020 ppm | 0.4773 ppm | 0.4763 ppm | 0.4954 ppm | 5.4294 ppm | 0.4917 ppm |
| Concentration per Run 1 | 0.4778 ppm | 0.5041 ppm | 0.4791 ppm | 0.4760 ppm | 0.4946 ppm | 5.4199 ppm | 0.4934 ppm |
| Concentration per Run 2 | 0.4767 ppm | 0.5020 ppm | 0.4765 ppm | 0.4774 ppm | 0.4581 ppm | 5.0423 ppm | 0.4887 ppm |
| Concentration per Run 3 | 0.4736 ppm | 0.4999 ppm | 0.4763 ppm | 0.4754 ppm | 0.5334 ppm | 5.8259 ppm | 0.4931 ppm |
| Recovery Percentage 1 | 95.206 % | 100.403 % | 95.462 % | 95.255 % | 99.070 % | 108.587 % | 98.348 % |
| Concentration RSD | 0.4 % | 0.4 % | 0.3 % | 0.2 % | 7.6 % | 7.2 % | 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 | 0.4830 ppm | 0.4849 ppm | 10.7484 ppm | 0.4934 ppm | 0.4989 ppm | 0.5037 ppm | 0.4918 ppm |
| Concentration per Run 1 | 0.4803 ppm | 0.4865 ppm | 10.7264 ppm | 0.4951 ppm | 0.5024 ppm | 0.5054 ppm | 0.4943 ppm |
| Concentration per Run 2 | 0.4469 ppm | 0.4845 ppm | 9.9789 ppm | 0.4932 ppm | 0.4973 ppm | 0.5021 ppm | 0.4910 ppm |
| Concentration per Run 3 | 0.5219 ppm | 0.4837 ppm | 11.5399 ppm | 0.4919 ppm | 0.4969 ppm | 0.5036 ppm | 0.4901 ppm |
| Recovery Percentage 1 | 96.607 % | 96.979 % | 107.484 % | 98.683 % | 99.773 % | 100.745 % | 98.362 % |
| Concentration RSD | 7.8 % | 0.3 % | 7.3 % | 0.3 % | 0.6 % | 0.3 % | 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 | 5.6149 ppm | 0.4842 ppm | 0.5338 ppm | 0.4976 ppm | 0.4997 ppm | 0.4813 ppm | 0.4931 ppm |
| Concentration per Run 1 | 5.6461 ppm | 0.4873 ppm | 0.5324 ppm | 0.4991 ppm | 0.5007 ppm | 0.4822 ppm | 0.4940 ppm |
| Concentration per Run 2 | 5.5998 ppm | 0.4839 ppm | 0.4956 ppm | 0.4972 ppm | 0.4982 ppm | 0.4814 ppm | 0.4946 ppm |
| Concentration per Run 3 | 5.5986 ppm | 0.4813 ppm | 0.5733 ppm | 0.4966 ppm | 0.5002 ppm | 0.4802 ppm | 0.4906 ppm |
| Recovery Percentage 1 | 106.950 % | 96.832 % | 106.750 % | 99.529 % | 99.941 % | 96.252 % | 98.615 % |
| Concentration RSD | 0.5 % | 0.6 % | 7.3 % | 0.3 % | 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 | 93.1016 % | 101.7659 % | 103.6645 % | 103.3977 % | 98.0901 % | 103.3069 % | 0.5355 ppm |
| Concentration per Run 1 | 94.7956 % | 101.7817 % | 103.5065 % | 103.8125 % | 97.5942 % | 103.2583 % | 0.5330 ppm |
| Concentration per Run 2 | 99.4568 % | 101.5368 % | 103.8499 % | 110.7732 % | 98.1139 % | 103.0808 % | 0.4986 ppm |
| Concentration per Run 3 | 85.0523 % | 101.9792 % | 103.6370 % | 95.6075 % | 98.5620 % | 103.5817 % | 0.5750 ppm |
| Recovery Percentage 1 | | | | | | | 107.105 % |
| Concentration RSD | 7.9 % | 0.2 % | 0.2 % | 7.3 % | 0.5 % | 0.2 % | 7.2 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/19/2024 1:50:30 PM
Rack: 0
Vial: 4

| | Ag 328.068 {103} (Axial) | Al 396.152 {85} (Radial) | As 189.042 {478} (Axial) | B 208.959 {461} (Axial) | Ba 455.403 {74} (Radial) | Be 313.042 {108} (Radial) | Ca 315.887 {107} (Radial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0001 ppm | -0.0016 ppm | 0.0014 ppm | 0.0013 ppm | 0.0000 ppm | 0.0000 ppm | 0.0527 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0027 ppm | 0.0023 ppm | 0.0015 ppm | -0.0001 ppm | 0.0000 ppm | 0.0583 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0024 ppm | 0.0011 ppm | 0.0010 ppm | -0.0001 ppm | -0.0001 ppm | 0.0519 ppm |
| Concentration per Run 3 | 0.0003 ppm | -0.0044 ppm | 0.0008 ppm | 0.0014 ppm | 0.0001 ppm | 0.0000 ppm | 0.0478 ppm |
| Recovery Percentage 1 | 1.081 % | -1.576 % | 28.147 % | 4.305 % | -0.404 % | -0.520 % | 52.672 % |
| Concentration RSD | 286.3 % | 224.5 % | 58.7 % | 19.4 % | 212.3 % | 127.9 % | 10.0 % |

| | 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 | 0.0000 ppm | -0.0002 ppm | 0.0001 ppm | 0.0076 ppm | 0.0003 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0001 ppm | 0.0000 ppm | 0.0000 ppm | -0.0003 ppm | -0.0183 ppm | -0.0001 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | 0.0001 ppm | -0.0002 ppm | 0.0011 ppm | 0.0180 ppm | 0.0022 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0001 ppm | -0.0002 ppm | -0.0003 ppm | -0.0004 ppm | 0.0230 ppm | -0.0012 ppm |
| Recovery Percentage 1 | 0.331 % | 0.312 % | -0.450 % | -1.768 % | 0.270 % | 0.304 % | 0.306 % |
| Concentration RSD | 122.7 % | 128.7 % | 331.6 % | 82.3 % | 608.1 % | 296.9 % | 565.0 % |

| | 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 | 0.0006 ppm | 0.0151 ppm | 0.0001 ppm | 0.0007 ppm | 0.0019 ppm | -0.0007 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0007 ppm | 0.0157 ppm | 0.0001 ppm | 0.0006 ppm | 0.0013 ppm | -0.0016 ppm |
| Concentration per Run 2 | -0.0007 ppm | 0.0005 ppm | 0.0158 ppm | 0.0001 ppm | 0.0005 ppm | 0.0019 ppm | 0.0010 ppm |
| Concentration per Run 3 | -0.0005 ppm | 0.0006 ppm | 0.0138 ppm | 0.0000 ppm | 0.0008 ppm | 0.0023 ppm | -0.0015 ppm |
| Recovery Percentage 1 | -4.095 % | 1.205 % | 0.757 % | 0.230 % | 6.640 % | 3.743 % | -6.811 % |
| Concentration RSD | 77.1 % | 9.6 % | 7.5 % | 160.1 % | 24.3 % | 26.6 % | 217.2 % |

| | 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 | 0.0019 ppm | 0.0001 ppm | 0.0001 ppm | 0.0001 ppm | 0.0006 ppm | 0.0000 ppm | -0.0011 ppm |
| Concentration per Run 1 | 0.0020 ppm | 0.0001 ppm | 0.0000 ppm | 0.0005 ppm | 0.0013 ppm | -0.0001 ppm | -0.0011 ppm |
| Concentration per Run 2 | 0.0022 ppm | 0.0002 ppm | 0.0000 ppm | -0.0001 ppm | 0.0013 ppm | 0.0000 ppm | -0.0011 ppm |
| Concentration per Run 3 | 0.0016 ppm | 0.0000 ppm | 0.0001 ppm | 0.0001 ppm | -0.0009 ppm | 0.0000 ppm | -0.0011 ppm |
| Recovery Percentage 1 | 0.386 % | 0.202 % | 0.593 % | 1.415 % | 2.864 % | -0.287 % | -22.444 % |
| Concentration RSD | 15.3 % | 98.2 % | 121.5 % | 240.6 % | 220.5 % | 222.4 % | 0.9 % |

| | 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 | 96.0795 % | 101.9260 % | 103.2430 % | 101.2577 % | 99.9308 % | 102.1108 % | -0.0002 ppm |
| Concentration per Run 1 | 94.9612 % | 101.6411 % | 103.2684 % | 96.2999 % | 99.5103 % | 101.6022 % | 0.0001 ppm |
| Concentration per Run 2 | 96.4870 % | 102.0121 % | 103.5524 % | 102.7798 % | 100.1172 % | 102.1593 % | -0.0002 ppm |
| Concentration per Run 3 | 96.7903 % | 102.1248 % | 102.9083 % | 104.6934 % | 100.1648 % | 102.5708 % | -0.0004 ppm |
| Recovery Percentage 1 | | | | | | | -1.605 % |
| Concentration RSD | 1.0 % | 0.2 % | 0.3 % | 4.3 % | 0.4 % | 0.5 % | 161.3 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2472649-08 WG2011116
Analysis started at: 12/19/2024 2:02:39 PM
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 | 0.0445 ppm | 0.0037 ppm | 0.0049 ppm | 0.0555 ppm | 0.0001 ppm | 10.9195 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.0432 ppm | 0.0034 ppm | 0.0050 ppm | 0.0559 ppm | 0.0001 ppm | 10.9872 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0432 ppm | 0.0026 ppm | 0.0051 ppm | 0.0555 ppm | 0.0001 ppm | 10.9017 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0469 ppm | 0.0050 ppm | 0.0046 ppm | 0.0551 ppm | 0.0001 ppm | 10.8695 ppm |
| Concentration RSD | 518.5 % | 4.8 % | 32.7 % | 6.3 % | 0.7 % | 13.6 % | 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 | 0.0043 ppm | 0.0000 ppm | 0.0039 ppm | 0.7389 ppm | 0.6779 ppm | 0.3943 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0042 ppm | 0.0001 ppm | 0.0038 ppm | 0.7413 ppm | 0.6978 ppm | 0.3952 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0044 ppm | 0.0000 ppm | 0.0039 ppm | 0.7342 ppm | 0.6641 ppm | 0.3937 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0043 ppm | 0.0000 ppm | 0.0040 ppm | 0.7411 ppm | 0.6718 ppm | 0.3939 ppm |
| Concentration RSD | 27.4 % | 2.3 % | 170.5 % | 2.7 % | 0.5 % | 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 | 0.3715 ppm | 0.0003 ppm | 132.8558 ppm | 0.0083 ppm | 0.1035 ppm | 0.0033 ppm | 0.0036 ppm |
| Concentration per Run 1 | 0.3754 ppm | 0.0003 ppm | 133.4898 ppm | 0.0085 ppm | 0.1033 ppm | 0.0024 ppm | 0.0024 ppm |
| Concentration per Run 2 | 0.3692 ppm | 0.0003 ppm | 132.4283 ppm | 0.0085 ppm | 0.1033 ppm | 0.0034 ppm | 0.0052 ppm |
| Concentration per Run 3 | 0.3700 ppm | 0.0005 ppm | 132.6494 ppm | 0.0081 ppm | 0.1038 ppm | 0.0040 ppm | 0.0030 ppm |
| Concentration RSD | 0.9 % | 31.4 % | 0.4 % | 2.8 % | 0.3 % | 25.0 % | 41.6 % |

| | 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 | 0.1675 ppm | 0.0015 ppm | 0.0317 ppm | 0.0001 ppm | -0.0029 ppm | -0.0003 ppm | 0.0384 ppm |
| Concentration per Run 1 | 0.1680 ppm | 0.0012 ppm | 0.0319 ppm | 0.0004 ppm | -0.0015 ppm | -0.0004 ppm | 0.0385 ppm |
| Concentration per Run 2 | 0.1677 ppm | 0.0025 ppm | 0.0317 ppm | 0.0001 ppm | -0.0031 ppm | -0.0002 ppm | 0.0385 ppm |
| Concentration per Run 3 | 0.1666 ppm | 0.0009 ppm | 0.0316 ppm | -0.0001 ppm | -0.0041 ppm | -0.0003 ppm | 0.0384 ppm |
| Concentration RSD | 0.4 % | 55.6 % | 0.5 % | 207.4 % | 46.2 % | 42.8 % | 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 | 95.5987 % | 98.2319 % | 98.1408 % | 107.6944 % | 86.9928 % | 100.0726 % | 0.0023 ppm |
| Concentration per Run 1 | 95.7652 % | 98.1743 % | 98.3857 % | 106.9118 % | 87.0196 % | 100.1679 % | 0.0017 ppm |
| Concentration per Run 2 | 95.2936 % | 98.4867 % | 97.9236 % | 107.8530 % | 87.0092 % | 100.3772 % | 0.0022 ppm |
| Concentration per Run 3 | 95.7374 % | 98.0346 % | 98.1131 % | 108.3184 % | 86.9496 % | 99.6727 % | 0.0029 ppm |
| Concentration RSD | 0.3 % | 0.2 % | 0.2 % | 0.7 % | 0.0 % | 0.4 % | 25.5 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2472649-10 WG2011116
Analysis started at: 12/19/2024 2:09:21 PM
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 | 0.0000 ppm | 0.0123 ppm | 0.0008 ppm | 0.0056 ppm | 0.0219 ppm | 0.0000 ppm | 58.2566 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0090 ppm | 0.0017 ppm | 0.0053 ppm | 0.0219 ppm | 0.0000 ppm | 58.0868 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0149 ppm | -0.0009 ppm | 0.0054 ppm | 0.0219 ppm | 0.0000 ppm | 58.2242 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0129 ppm | 0.0015 ppm | 0.0060 ppm | 0.0218 ppm | -0.0001 ppm | 58.4590 ppm |
| Concentration RSD | 693.1 % | 24.3 % | 195.3 % | 6.8 % | 0.3 % | 235.6 % | 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 | 0.0000 ppm | 0.0021 ppm | 0.0000 ppm | 0.0041 ppm | 0.0032 ppm | 0.7285 ppm | 0.9358 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0023 ppm | 0.0000 ppm | 0.0040 ppm | 0.0023 ppm | 0.7316 ppm | 0.9323 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0020 ppm | -0.0001 ppm | 0.0041 ppm | 0.0040 ppm | 0.7199 ppm | 0.9384 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0020 ppm | 0.0001 ppm | 0.0042 ppm | 0.0034 ppm | 0.7340 ppm | 0.9365 ppm |
| Concentration RSD | 174.6 % | 8.1 % | 443.4 % | 2.2 % | 27.2 % | 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 | 0.2292 ppm | 0.0004 ppm | 137.6475 ppm | 0.0021 ppm | 0.0089 ppm | 0.0009 ppm | 0.0031 ppm |
| Concentration per Run 1 | 0.2283 ppm | 0.0003 ppm | 137.5509 ppm | 0.0020 ppm | 0.0092 ppm | 0.0012 ppm | 0.0026 ppm |
| Concentration per Run 2 | 0.2286 ppm | 0.0001 ppm | 137.5133 ppm | 0.0023 ppm | 0.0095 ppm | 0.0010 ppm | 0.0027 ppm |
| Concentration per Run 3 | 0.2306 ppm | 0.0006 ppm | 137.8784 ppm | 0.0019 ppm | 0.0081 ppm | 0.0006 ppm | 0.0041 ppm |
| Concentration RSD | 0.5 % | 76.7 % | 0.1 % | 10.9 % | 8.2 % | 32.1 % | 28.0 % |

| | 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 | 0.2989 ppm | 0.0016 ppm | 0.1307 ppm | 0.0000 ppm | -0.0028 ppm | -0.0002 ppm | 0.0116 ppm |
| Concentration per Run 1 | 0.2956 ppm | 0.0016 ppm | 0.1304 ppm | 0.0001 ppm | -0.0042 ppm | -0.0004 ppm | 0.0115 ppm |
| Concentration per Run 2 | 0.2965 ppm | 0.0019 ppm | 0.1306 ppm | 0.0000 ppm | -0.0024 ppm | -0.0001 ppm | 0.0115 ppm |
| Concentration per Run 3 | 0.3048 ppm | 0.0013 ppm | 0.1312 ppm | 0.0000 ppm | -0.0019 ppm | -0.0003 ppm | 0.0117 ppm |
| Concentration RSD | 1.7 % | 17.8 % | 0.3 % | 121.7 % | 43.3 % | 68.2 % | 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 | 95.4286 % | 97.0987 % | 96.0966 % | 108.1246 % | 85.3354 % | 99.8686 % | 0.0035 ppm |
| Concentration per Run 1 | 96.2856 % | 97.2374 % | 96.1090 % | 108.2896 % | 85.4494 % | 100.1005 % | 0.0045 ppm |
| Concentration per Run 2 | 95.2495 % | 97.0688 % | 96.6021 % | 108.5655 % | 86.1425 % | 99.8936 % | 0.0032 ppm |
| Concentration per Run 3 | 94.7508 % | 96.9899 % | 95.5788 % | 107.5188 % | 84.4143 % | 99.6118 % | 0.0029 ppm |
| Concentration RSD | 0.8 % | 0.1 % | 0.5 % | 0.5 % | 1.0 % | 0.2 % | 23.8 % |

# ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2472649-12 WG2011116
Analysis started at: 12/19/2024 2:15:59 PM
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 | 0.0389 ppm | 0.0015 ppm | 0.0052 ppm | 0.0725 ppm | 0.0000 ppm | 16.8917 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.0406 ppm | 0.0015 ppm | 0.0053 ppm | 0.0717 ppm | 0.0001 ppm | 16.7826 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0360 ppm | 0.0014 ppm | 0.0052 ppm | 0.0730 ppm | 0.0000 ppm | 16.9662 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0400 ppm | 0.0016 ppm | 0.0052 ppm | 0.0729 ppm | 0.0000 ppm | 16.9263 ppm |
| Concentration RSD | 526.6 % | 6.5 % | 8.2 % | 0.5 % | 1.0 % | 64.3 % | 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 | 0.0039 ppm | 0.0004 ppm | 0.0178 ppm | 0.0820 ppm | 0.6673 ppm | 0.9704 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0039 ppm | 0.0006 ppm | 0.0179 ppm | 0.0798 ppm | 0.6804 ppm | 0.9700 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0039 ppm | 0.0002 ppm | 0.0178 ppm | 0.0841 ppm | 0.6285 ppm | 0.9697 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0039 ppm | 0.0004 ppm | 0.0179 ppm | 0.0821 ppm | 0.6931 ppm | 0.9715 ppm |
| Concentration RSD | 39.7 % | 1.2 % | 42.9 % | 0.4 % | 2.7 % | 5.1 % | 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 | 0.2545 ppm | 0.0002 ppm | 134.7640 ppm | 0.0079 ppm | 0.0988 ppm | 0.0052 ppm | 0.0009 ppm |
| Concentration per Run 1 | 0.2534 ppm | 0.0003 ppm | 133.6295 ppm | 0.0078 ppm | 0.0977 ppm | 0.0043 ppm | 0.0017 ppm |
| Concentration per Run 2 | 0.2549 ppm | 0.0000 ppm | 135.8039 ppm | 0.0079 ppm | 0.0993 ppm | 0.0057 ppm | -0.0002 ppm |
| Concentration per Run 3 | 0.2551 ppm | 0.0002 ppm | 134.8587 ppm | 0.0080 ppm | 0.0993 ppm | 0.0056 ppm | 0.0011 ppm |
| Concentration RSD | 0.4 % | 81.8 % | 0.8 % | 1.5 % | 1.0 % | 15.0 % | 111.8 % |

| | 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 | 0.3742 ppm | 0.0016 ppm | 0.0414 ppm | 0.0001 ppm | -0.0018 ppm | -0.0003 ppm | 0.0630 ppm |
| Concentration per Run 1 | 0.3734 ppm | 0.0015 ppm | 0.0410 ppm | 0.0000 ppm | -0.0024 ppm | -0.0004 ppm | 0.0633 ppm |
| Concentration per Run 2 | 0.3752 ppm | 0.0010 ppm | 0.0416 ppm | 0.0001 ppm | -0.0021 ppm | -0.0003 ppm | 0.0627 ppm |
| Concentration per Run 3 | 0.3742 ppm | 0.0022 ppm | 0.0415 ppm | 0.0001 ppm | -0.0008 ppm | -0.0001 ppm | 0.0629 ppm |
| Concentration RSD | 0.2 % | 38.6 % | 0.8 % | 95.2 % | 46.7 % | 59.8 % | 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 | 96.3213 % | 97.7737 % | 97.6146 % | 109.0225 % | 86.5580 % | 99.9622 % | 0.0022 ppm |
| Concentration per Run 1 | 97.2656 % | 97.6603 % | 98.1168 % | 109.3502 % | 87.0795 % | 99.9619 % | 0.0025 ppm |
| Concentration per Run 2 | 95.6629 % | 97.5744 % | 97.0482 % | 108.6224 % | 86.2108 % | 99.9182 % | 0.0018 ppm |
| Concentration per Run 3 | 96.0353 % | 98.0865 % | 97.6788 % | 109.0949 % | 86.3835 % | 100.0066 % | 0.0024 ppm |
| Concentration RSD | 0.9 % | 0.3 % | 0.6 % | 0.3 % | 0.5 % | 0.0 % | 16.3 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2472939-01 WG2011116
Analysis started at: 12/19/2024 2:22:39 PM
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 | 0.0003 ppm | 0.0333 ppm | 0.0026 ppm | 0.0050 ppm | 0.0694 ppm | 0.0000 ppm | 3.6982 ppm |
| Concentration per Run 1 | 0.0006 ppm | 0.0347 ppm | 0.0012 ppm | 0.0052 ppm | 0.0684 ppm | 0.0000 ppm | 3.6248 ppm |
| Concentration per Run 2 | 0.0003 ppm | 0.0351 ppm | 0.0037 ppm | 0.0049 ppm | 0.0702 ppm | 0.0000 ppm | 3.7599 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0301 ppm | 0.0030 ppm | 0.0050 ppm | 0.0698 ppm | 0.0000 ppm | 3.7098 ppm |
| Concentration RSD | 63.0 % | 8.3 % | 49.1 % | 3.8 % | 1.4 % | 620.9 % | 1.8 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0014 ppm | 0.0010 ppm | -0.0001 ppm | 0.1047 ppm | 0.0305 ppm | 0.4412 ppm | 0.1524 ppm |
| Concentration per Run 1 | 0.0014 ppm | 0.0009 ppm | 0.0001 ppm | 0.1048 ppm | 0.0306 ppm | 0.4375 ppm | 0.1528 ppm |
| Concentration per Run 2 | 0.0014 ppm | 0.0009 ppm | -0.0005 ppm | 0.1047 ppm | 0.0311 ppm | 0.4442 ppm | 0.1517 ppm |
| Concentration per Run 3 | 0.0014 ppm | 0.0011 ppm | 0.0002 ppm | 0.1045 ppm | 0.0296 ppm | 0.4419 ppm | 0.1528 ppm |
| Concentration RSD | 0.6 % | 11.4 % | 445.4 % | 0.1 % | 2.5 % | 0.8 % | 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 | 0.1310 ppm | 0.0002 ppm | 132.8974 ppm | 0.0036 ppm | 0.1114 ppm | 0.0014 ppm | 0.0027 ppm |
| Concentration per Run 1 | 0.1285 ppm | 0.0003 ppm | 130.8869 ppm | 0.0040 ppm | 0.1110 ppm | 0.0005 ppm | 0.0013 ppm |
| Concentration per Run 2 | 0.1330 ppm | 0.0002 ppm | 134.5898 ppm | 0.0032 ppm | 0.1119 ppm | 0.0023 ppm | 0.0021 ppm |
| Concentration per Run 3 | 0.1316 ppm | 0.0001 ppm | 133.2155 ppm | 0.0037 ppm | 0.1111 ppm | 0.0013 ppm | 0.0047 ppm |
| Concentration RSD | 1.8 % | 41.0 % | 1.4 % | 10.8 % | 0.4 % | 66.0 % | 66.2 % |

| | 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 | 0.2184 ppm | 0.0018 ppm | 0.0193 ppm | 0.0001 ppm | -0.0033 ppm | -0.0001 ppm | 0.3671 ppm |
| Concentration per Run 1 | 0.2185 ppm | 0.0016 ppm | 0.0191 ppm | 0.0002 ppm | -0.0045 ppm | -0.0003 ppm | 0.3667 ppm |
| Concentration per Run 2 | 0.2201 ppm | 0.0016 ppm | 0.0195 ppm | -0.0001 ppm | -0.0034 ppm | -0.0001 ppm | 0.3678 ppm |
| Concentration per Run 3 | 0.2167 ppm | 0.0021 ppm | 0.0193 ppm | 0.0003 ppm | -0.0020 ppm | 0.0000 ppm | 0.3668 ppm |
| Concentration RSD | 0.8 % | 16.1 % | 1.0 % | 197.0 % | 37.6 % | 134.2 % | 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 | 95.3210 % | 97.9991 % | 97.4478 % | 108.3784 % | 86.5919 % | 100.0104 % | 0.0012 ppm |
| Concentration per Run 1 | 97.2668 % | 98.2478 % | 96.8386 % | 110.1834 % | 86.6766 % | 99.8514 % | 0.0010 ppm |
| Concentration per Run 2 | 93.9767 % | 98.0583 % | 97.6185 % | 107.2337 % | 86.0884 % | 100.1162 % | 0.0006 ppm |
| Concentration per Run 3 | 94.7194 % | 97.6913 % | 97.8864 % | 107.7179 % | 87.0106 % | 100.0637 % | 0.0018 ppm |
| Concentration RSD | 1.8 % | 0.3 % | 0.6 % | 1.5 % | 0.5 % | 0.1 % | 52.8 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 2:29:21 PM
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 | 0.4747 ppm | 0.4981 ppm | 0.4718 ppm | 0.4849 ppm | 0.4974 ppm | 0.4961 ppm | 0.4942 ppm |
| Concentration per Run 1 | 0.4790 ppm | 0.5179 ppm | 0.4695 ppm | 0.4846 ppm | 0.5167 ppm | 0.5163 ppm | 0.5216 ppm |
| Concentration per Run 2 | 0.4733 ppm | 0.4896 ppm | 0.4714 ppm | 0.4836 ppm | 0.4899 ppm | 0.4895 ppm | 0.4837 ppm |
| Concentration per Run 3 | 0.4718 ppm | 0.4869 ppm | 0.4746 ppm | 0.4865 ppm | 0.4856 ppm | 0.4825 ppm | 0.4774 ppm |
| Recovery Percentage 1 | 94.942 % | 99.622 % | 94.366 % | 96.981 % | 99.485 % | 99.215 % | 98.850 % |
| Concentration RSD | 0.8 % | 3.4 % | 0.6 % | 0.3 % | 3.4 % | 3.6 % | 4.8 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.4764 ppm | 0.5012 ppm | 0.4838 ppm | 0.4813 ppm | 0.4768 ppm | 5.2394 ppm | 0.4956 ppm |
| Concentration per Run 1 | 0.4764 ppm | 0.5010 ppm | 0.4860 ppm | 0.4880 ppm | 0.4928 ppm | 5.4311 ppm | 0.4986 ppm |
| Concentration per Run 2 | 0.4768 ppm | 0.5011 ppm | 0.4835 ppm | 0.4796 ppm | 0.4726 ppm | 5.1741 ppm | 0.4945 ppm |
| Concentration per Run 3 | 0.4761 ppm | 0.5017 ppm | 0.4818 ppm | 0.4763 ppm | 0.4651 ppm | 5.1131 ppm | 0.4938 ppm |
| Recovery Percentage 1 | 95.287 % | 100.250 % | 96.753 % | 96.259 % | 95.367 % | 104.788 % | 99.129 % |
| Concentration RSD | 0.1 % | 0.1 % | 0.4 % | 1.2 % | 3.0 % | 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 | 0.4618 ppm | 0.4847 ppm | 10.3357 ppm | 0.4945 ppm | 0.4996 ppm | 0.5047 ppm | 0.4919 ppm |
| Concentration per Run 1 | 0.4811 ppm | 0.4838 ppm | 10.7199 ppm | 0.4946 ppm | 0.4989 ppm | 0.5031 ppm | 0.4914 ppm |
| Concentration per Run 2 | 0.4558 ppm | 0.4840 ppm | 10.1945 ppm | 0.4944 ppm | 0.5002 ppm | 0.5054 ppm | 0.4929 ppm |
| Concentration per Run 3 | 0.4485 ppm | 0.4863 ppm | 10.0929 ppm | 0.4946 ppm | 0.4998 ppm | 0.5056 ppm | 0.4914 ppm |
| Recovery Percentage 1 | 92.354 % | 96.941 % | 103.357 % | 98.906 % | 99.923 % | 100.941 % | 98.379 % |
| Concentration RSD | 3.7 % | 0.3 % | 3.3 % | 0.0 % | 0.1 % | 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 | 5.6028 ppm | 0.4862 ppm | 0.5145 ppm | 0.4979 ppm | 0.5019 ppm | 0.4827 ppm | 0.4908 ppm |
| Concentration per Run 1 | 5.5921 ppm | 0.4861 ppm | 0.5344 ppm | 0.5018 ppm | 0.5019 ppm | 0.4860 ppm | 0.4906 ppm |
| Concentration per Run 2 | 5.5980 ppm | 0.4863 ppm | 0.5068 ppm | 0.4967 ppm | 0.5016 ppm | 0.4809 ppm | 0.4912 ppm |
| Concentration per Run 3 | 5.6182 ppm | 0.4862 ppm | 0.5022 ppm | 0.4952 ppm | 0.5022 ppm | 0.4811 ppm | 0.4908 ppm |
| Recovery Percentage 1 | 106.720 % | 97.246 % | 102.897 % | 99.580 % | 100.386 % | 96.533 % | 98.167 % |
| Concentration RSD | 0.2 % | 0.0 % | 3.4 % | 0.7 % | 0.1 % | 0.6 % | 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 | 96.9168 % | 101.4073 % | 103.6844 % | 107.6243 % | 98.4320 % | 102.7113 % | 0.5133 ppm |
| Concentration per Run 1 | 95.0633 % | 100.5689 % | 103.8583 % | 103.7287 % | 98.6616 % | 101.2980 % | 0.5308 ppm |
| Concentration per Run 2 | 97.8370 % | 101.7819 % | 103.7131 % | 108.8330 % | 98.5370 % | 103.2570 % | 0.5065 ppm |
| Concentration per Run 3 | 97.8501 % | 101.8712 % | 103.4817 % | 110.3110 % | 98.0972 % | 103.5788 % | 0.5024 ppm |
| Recovery Percentage 1 | | | | | | | 102.651 % |
| Concentration RSD | 1.7 % | 0.7 % | 0.2 % | 3.2 % | 0.3 % | 1.2 % | 3.0 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/19/2024 2:35:46 PM
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 | -0.0020 ppm | 0.0007 ppm | 0.0011 ppm | 0.0000 ppm | 0.0000 ppm | 0.0571 ppm |
| Concentration per Run 1 | 0.0003 ppm | -0.0048 ppm | 0.0000 ppm | 0.0016 ppm | 0.0000 ppm | 0.0000 ppm | 0.0618 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0021 ppm | 0.0011 ppm | 0.0008 ppm | 0.0000 ppm | 0.0000 ppm | 0.0567 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0008 ppm | 0.0009 ppm | 0.0009 ppm | 0.0000 ppm | -0.0001 ppm | 0.0529 ppm |
| Recovery Percentage 1 | 2.732 % | -2.040 % | 13.748 % | 3.602 % | -0.101 % | -0.523 % | 57.105 % |
| Concentration RSD | 50.8 % | 135.7 % | 82.1 % | 39.2 % | 265.3 % | 116.5 % | 7.9 % |

| | 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 | -0.0001 ppm | -0.0001 ppm | -0.0003 ppm | 0.0005 ppm | 0.0085 ppm | -0.0017 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0000 ppm | -0.0003 ppm | -0.0003 ppm | -0.0003 ppm | 0.0362 ppm | -0.0010 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | -0.0002 ppm | 0.0023 ppm | -0.0296 ppm | -0.0021 ppm |
| Concentration per Run 3 | 0.0001 ppm | -0.0003 ppm | -0.0001 ppm | -0.0003 ppm | -0.0003 ppm | 0.0188 ppm | -0.0020 ppm |
| Recovery Percentage 1 | 0.399 % | -0.614 % | -1.425 % | -2.619 % | 1.086 % | 0.339 % | -1.701 % |
| Concentration RSD | 265.2 % | 144.3 % | 126.0 % | 10.5 % | 280.2 % | 402.0 % | 34.5 % |

| | 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 | -0.0003 ppm | 0.0006 ppm | 0.0164 ppm | -0.0001 ppm | 0.0002 ppm | 0.0005 ppm | -0.0003 ppm |
| Concentration per Run 1 | -0.0004 ppm | 0.0006 ppm | 0.0165 ppm | -0.0001 ppm | 0.0008 ppm | -0.0006 ppm | -0.0004 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0006 ppm | 0.0170 ppm | 0.0000 ppm | 0.0004 ppm | 0.0009 ppm | -0.0009 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0006 ppm | 0.0158 ppm | -0.0001 ppm | -0.0005 ppm | 0.0012 ppm | 0.0004 ppm |
| Recovery Percentage 1 | -2.656 % | 1.185 % | 0.821 % | -0.262 % | 2.203 % | 0.913 % | -2.760 % |
| Concentration RSD | 45.7 % | 7.2 % | 3.8 % | 77.3 % | 288.5 % | 212.0 % | 245.7 % |

| | 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 | 0.0017 ppm | 0.0000 ppm | 0.0001 ppm | 0.0001 ppm | 0.0010 ppm | -0.0002 ppm | -0.0010 ppm |
| Concentration per Run 1 | 0.0018 ppm | 0.0005 ppm | 0.0000 ppm | 0.0000 ppm | 0.0014 ppm | -0.0004 ppm | -0.0011 ppm |
| Concentration per Run 2 | 0.0015 ppm | 0.0002 ppm | 0.0001 ppm | -0.0001 ppm | 0.0007 ppm | -0.0003 ppm | -0.0009 ppm |
| Concentration per Run 3 | 0.0017 ppm | -0.0007 ppm | 0.0001 ppm | 0.0003 ppm | 0.0011 ppm | -0.0001 ppm | -0.0009 ppm |
| Recovery Percentage 1 | 0.334 % | -0.030 % | 0.854 % | 0.859 % | 5.226 % | -2.408 % | -19.762 % |
| Concentration RSD | 10.5 % | 4,043.8 % | 81.3 % | 258.7 % | 36.9 % | 57.9 % | 12.5 % |

| | 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 | 96.3174 % | 102.2277 % | 104.0395 % | 101.6030 % | 100.6194 % | 102.4686 % | 0.0011 ppm |
| Concentration per Run 1 | 94.5827 % | 102.1262 % | 104.1700 % | 95.6580 % | 100.2099 % | 102.2795 % | 0.0015 ppm |
| Concentration per Run 2 | 97.6193 % | 102.1585 % | 103.7856 % | 104.0168 % | 100.6096 % | 102.4864 % | 0.0002 ppm |
| Concentration per Run 3 | 96.7502 % | 102.3985 % | 104.1629 % | 105.1343 % | 101.0387 % | 102.6399 % | 0.0017 ppm |
| Recovery Percentage 1 | | | | | | | 11.363 % |
| Concentration RSD | 1.6 % | 0.1 % | 0.2 % | 5.1 % | 0.4 % | 0.2 % | 75.5 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010972-1 WG2010972
Analysis started at: 12/19/2024 3:06:42 PM
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 | 0.0000 ppm | 0.0004 ppm | 0.0021 ppm | 0.0003 ppm | 0.0000 ppm | 0.0000 ppm | 0.0093 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0054 ppm | 0.0020 ppm | 0.0004 ppm | -0.0001 ppm | 0.0001 ppm | 0.0070 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0037 ppm | 0.0030 ppm | 0.0004 ppm | -0.0001 ppm | -0.0001 ppm | 0.0069 ppm |
| Concentration per Run 3 | 0.0001 ppm | -0.0004 ppm | 0.0012 ppm | 0.0002 ppm | 0.0001 ppm | -0.0001 ppm | 0.0139 ppm |
| Recovery Percentage 1 | 0.443 % | 0.403 % | 41.527 % | 1.135 % | -0.243 % | -0.461 % | 9.252 % |
| Concentration RSD | 195.7 % | 1,147.2 % | 44.1 % | 29.2 % | 343.8 % | 281.4 % | 43.1 % |

| | 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 | 0.0000 ppm | -0.0002 ppm | 0.0037 ppm | 0.0015 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0002 ppm | -0.0001 ppm | 0.0000 ppm | -0.0003 ppm | 0.0040 ppm | 0.0023 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0001 ppm | 0.0001 ppm | -0.0002 ppm | -0.0004 ppm | 0.0306 ppm | 0.0019 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0002 ppm | 0.0001 ppm | 0.0003 ppm | 0.0002 ppm | -0.0235 ppm | 0.0002 ppm |
| Recovery Percentage 1 | -0.257 % | -0.071 % | 0.169 % | 0.106 % | -0.361 % | 0.148 % | 1.456 % |
| Concentration RSD | 59.9 % | 1,402.5 % | 599.4 % | 2,361.9 % | 194.7 % | 729.3 % | 78.1 % |

| | 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 | 0.0001 ppm | 0.0050 ppm | 0.0002 ppm | 0.0010 ppm | 0.0000 ppm | -0.0011 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0001 ppm | 0.0027 ppm | 0.0003 ppm | 0.0010 ppm | 0.0001 ppm | -0.0012 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.0001 ppm | 0.0016 ppm | 0.0002 ppm | 0.0009 ppm | 0.0002 ppm | -0.0022 ppm |
| Concentration per Run 3 | 0.0003 ppm | 0.0002 ppm | 0.0105 ppm | 0.0000 ppm | 0.0010 ppm | -0.0002 ppm | 0.0001 ppm |
| Recovery Percentage 1 | -0.099 % | 0.147 % | 0.248 % | 0.672 % | 9.618 % | 0.075 % | -10.788 % |
| Concentration RSD | 3,325.3 % | 193.7 % | 97.9 % | 81.3 % | 6.7 % | 562.0 % | 104.1 % |

| | 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 | 0.0032 ppm | 0.0000 ppm | 0.0001 ppm | 0.0001 ppm | 0.0020 ppm | -0.0001 ppm | -0.0006 ppm |
| Concentration per Run 1 | 0.0033 ppm | 0.0000 ppm | 0.0000 ppm | 0.0001 ppm | 0.0017 ppm | 0.0000 ppm | -0.0007 ppm |
| Concentration per Run 2 | 0.0034 ppm | -0.0003 ppm | 0.0000 ppm | 0.0002 ppm | 0.0022 ppm | -0.0004 ppm | -0.0006 ppm |
| Concentration per Run 3 | 0.0029 ppm | 0.0001 ppm | 0.0002 ppm | 0.0000 ppm | 0.0021 ppm | 0.0000 ppm | -0.0006 ppm |
| Recovery Percentage 1 | 0.637 % | -0.083 % | 0.566 % | 1.248 % | 10.068 % | -1.055 % | -12.667 % |
| Concentration RSD | 9.1 % | 475.0 % | 156.3 % | 55.6 % | 15.5 % | 201.0 % | 9.6 % |

| | 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 | 96.9153 % | 103.4843 % | 104.8226 % | 105.1074 % | 103.3432 % | 104.0058 % | 0.0000 ppm |
| Concentration per Run 1 | 94.3319 % | 103.6915 % | 104.9062 % | 98.8059 % | 103.4053 % | 104.1559 % | -0.0005 ppm |
| Concentration per Run 2 | 98.4830 % | 103.6164 % | 104.6973 % | 107.5909 % | 102.8552 % | 104.1013 % | 0.0001 ppm |
| Concentration per Run 3 | 97.9312 % | 103.1450 % | 104.8643 % | 108.9255 % | 103.7691 % | 103.7601 % | 0.0005 ppm |
| Recovery Percentage 1 | | | | | | | 0.265 % |
| Concentration RSD | 2.3 % | 0.3 % | 0.1 % | 5.2 % | 0.4 % | 0.2 % | 2,045.2 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473010-02 WG2010972
Analysis started at: 12/19/2024 3:13:27 PM
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 | 0.0001 ppm | 0.0040 ppm | 0.0007 ppm | 0.0002 ppm | 0.0000 ppm | 0.0000 ppm | 0.0220 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0097 ppm | 0.0009 ppm | 0.0003 ppm | 0.0001 ppm | 0.0000 ppm | 0.0255 ppm |
| Concentration per Run 2 | 0.0002 ppm | -0.0026 ppm | 0.0007 ppm | 0.0003 ppm | 0.0000 ppm | 0.0000 ppm | 0.0210 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0049 ppm | 0.0005 ppm | 0.0000 ppm | -0.0001 ppm | 0.0000 ppm | 0.0197 ppm |
| Concentration RSD | 148.6 % | 153.5 % | 24.2 % | 69.1 % | 1,742.4 % | 103.1 % | 13.8 % |

| | 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 | 0.0003 ppm | 0.0038 ppm | 0.0058 ppm | 0.0031 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0001 ppm | 0.0001 ppm | 0.0002 ppm | 0.0038 ppm | -0.0016 ppm | 0.0026 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0002 ppm | 0.0037 ppm | 0.0313 ppm | 0.0015 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0000 ppm | 0.0000 ppm | 0.0004 ppm | 0.0038 ppm | -0.0123 ppm | 0.0052 ppm |
| Concentration RSD | 286.1 % | 215.3 % | 32.1 % | 40.2 % | 2.1 % | 391.0 % | 61.8 % |

| | 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 | 0.0041 ppm | -0.0002 ppm | 0.0175 ppm | 0.0002 ppm | 0.0004 ppm | 0.0002 ppm | 0.0006 ppm |
| Concentration per Run 1 | 0.0043 ppm | -0.0003 ppm | 0.0194 ppm | 0.0002 ppm | 0.0006 ppm | 0.0005 ppm | 0.0020 ppm |
| Concentration per Run 2 | 0.0037 ppm | -0.0002 ppm | 0.0229 ppm | 0.0002 ppm | 0.0000 ppm | -0.0005 ppm | -0.0003 ppm |
| Concentration per Run 3 | 0.0041 ppm | 0.0000 ppm | 0.0103 ppm | 0.0003 ppm | 0.0004 ppm | 0.0006 ppm | -0.0001 ppm |
| Concentration RSD | 6.9 % | 85.0 % | 36.9 % | 32.1 % | 83.3 % | 292.9 % | 233.3 % |

| | 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 | 0.0136 ppm | 0.0000 ppm | 0.0001 ppm | 0.0001 ppm | 0.0009 ppm | 0.0000 ppm | -0.0008 ppm |
| Concentration per Run 1 | 0.0138 ppm | 0.0002 ppm | 0.0001 ppm | 0.0003 ppm | 0.0015 ppm | 0.0000 ppm | -0.0008 ppm |
| Concentration per Run 2 | 0.0135 ppm | -0.0003 ppm | 0.0000 ppm | 0.0001 ppm | 0.0003 ppm | -0.0002 ppm | -0.0008 ppm |
| Concentration per Run 3 | 0.0135 ppm | 0.0001 ppm | 0.0002 ppm | -0.0001 ppm | 0.0011 ppm | 0.0000 ppm | -0.0008 ppm |
| Concentration RSD | 1.1 % | 1,017.6 % | 105.8 % | 157.2 % | 65.9 % | 260.8 % | 3.7 % |

| | 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 | 97.8171 % | 103.5533 % | 104.9820 % | 93.8566 % | 100.7406 % | 101.1254 % | 0.0011 ppm |
| Concentration per Run 1 | 95.1822 % | 104.2882 % | 104.9105 % | 85.6476 % | 99.8492 % | 101.3735 % | 0.0014 ppm |
| Concentration per Run 2 | 99.5662 % | 103.7403 % | 105.0483 % | 96.5879 % | 100.9607 % | 101.5040 % | -0.0001 ppm |
| Concentration per Run 3 | 98.7028 % | 102.6313 % | 104.9873 % | 99.3342 % | 101.4120 % | 100.4989 % | 0.0018 ppm |
| Concentration RSD | 2.4 % | 0.8 % | 0.1 % | 7.7 % | 0.8 % | 0.5 % | 94.3 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473251-03 WG2010972
Analysis started at: 12/19/2024 3:20:12 PM
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 | 0.0001 ppm | 0.0012 ppm | -0.0003 ppm | 0.0008 ppm | 0.0002 ppm | 0.0000 ppm | 0.0400 ppm |
| Concentration per Run 1 | 0.0005 ppm | 0.0015 ppm | -0.0015 ppm | 0.0008 ppm | 0.0003 ppm | 0.0000 ppm | 0.0506 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0033 ppm | 0.0000 ppm | 0.0008 ppm | 0.0001 ppm | 0.0000 ppm | 0.0380 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0012 ppm | 0.0005 ppm | 0.0009 ppm | 0.0002 ppm | 0.0000 ppm | 0.0314 ppm |
| Concentration RSD | 261.3 % | 186.7 % | 328.4 % | 4.4 % | 59.7 % | 34.7 % | 24.4 % |

| | 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 | -0.0002 ppm | 0.0002 ppm | 0.0010 ppm | 0.0077 ppm | 0.0074 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0000 ppm | -0.0002 ppm | 0.0001 ppm | 0.0011 ppm | 0.0103 ppm | 0.0076 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0001 ppm | -0.0002 ppm | 0.0005 ppm | 0.0016 ppm | 0.0063 ppm | 0.0073 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0000 ppm | -0.0001 ppm | 0.0000 ppm | 0.0004 ppm | 0.0065 ppm | 0.0073 ppm |
| Concentration RSD | 538.6 % | 399.1 % | 45.4 % | 112.1 % | 58.3 % | 29.1 % | 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 | -0.0005 ppm | -0.0001 ppm | 0.1002 ppm | 0.0000 ppm | 0.0006 ppm | 0.0011 ppm | -0.0004 ppm |
| Concentration per Run 1 | -0.0005 ppm | -0.0001 ppm | 0.1070 ppm | 0.0002 ppm | 0.0002 ppm | 0.0012 ppm | 0.0009 ppm |
| Concentration per Run 2 | -0.0006 ppm | -0.0002 ppm | 0.0970 ppm | -0.0001 ppm | 0.0006 ppm | 0.0016 ppm | -0.0004 ppm |
| Concentration per Run 3 | -0.0005 ppm | -0.0001 ppm | 0.0967 ppm | -0.0001 ppm | 0.0009 ppm | 0.0004 ppm | -0.0018 ppm |
| Concentration RSD | 8.4 % | 46.9 % | 5.9 % | 4,217.8 % | 57.2 % | 56.7 % | 299.2 % |

| | 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 | 0.0107 ppm | 0.0001 ppm | 0.0001 ppm | 0.0001 ppm | 0.0012 ppm | -0.0001 ppm | -0.0010 ppm |
| Concentration per Run 1 | 0.0104 ppm | -0.0004 ppm | 0.0002 ppm | 0.0002 ppm | 0.0005 ppm | -0.0002 ppm | -0.0010 ppm |
| Concentration per Run 2 | 0.0104 ppm | 0.0003 ppm | 0.0001 ppm | 0.0002 ppm | 0.0013 ppm | 0.0000 ppm | -0.0010 ppm |
| Concentration per Run 3 | 0.0112 ppm | 0.0004 ppm | 0.0001 ppm | -0.0001 ppm | 0.0018 ppm | 0.0000 ppm | -0.0009 ppm |
| Concentration RSD | 4.2 % | 369.0 % | 48.0 % | 147.8 % | 52.3 % | 126.1 % | 4.9 % |

| | 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 | 96.6448 % | 103.9768 % | 104.8926 % | 93.4142 % | 100.7458 % | 101.1686 % | -0.0004 ppm |
| Concentration per Run 1 | 93.2402 % | 104.1236 % | 104.9187 % | 84.6659 % | 100.3293 % | 101.4934 % | -0.0016 ppm |
| Concentration per Run 2 | 98.3015 % | 103.2647 % | 105.2356 % | 95.6093 % | 100.9360 % | 100.0168 % | 0.0010 ppm |
| Concentration per Run 3 | 98.3928 % | 104.5422 % | 104.5234 % | 99.9672 % | 100.9720 % | 101.9957 % | -0.0005 ppm |
| Concentration RSD | 3.1 % | 0.6 % | 0.3 % | 8.4 % | 0.4 % | 1.0 % | 368.2 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473668-17 WG2010972
Analysis started at: 12/19/2024 3:26:56 PM
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 | 0.0001 ppm | -0.0063 ppm | 0.0004 ppm | 0.0004 ppm | 0.0001 ppm | 0.0000 ppm | 0.0199 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0059 ppm | -0.0005 ppm | 0.0005 ppm | 0.0001 ppm | 0.0000 ppm | 0.0206 ppm |
| Concentration per Run 2 | 0.0002 ppm | -0.0037 ppm | 0.0016 ppm | 0.0007 ppm | 0.0000 ppm | 0.0000 ppm | 0.0214 ppm |
| Concentration per Run 3 | 0.0002 ppm | -0.0094 ppm | 0.0000 ppm | 0.0002 ppm | 0.0000 ppm | 0.0000 ppm | 0.0177 ppm |
| Concentration RSD | 84.2 % | 45.5 % | 306.9 % | 60.6 % | 94.3 % | 225.6 % | 9.9 % |

| | 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 | 0.0000 ppm | -0.0023 ppm | 0.0042 ppm | 0.0014 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0000 ppm | -0.0002 ppm | 0.0001 ppm | -0.0039 ppm | -0.0118 ppm | 0.0002 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0002 ppm | -0.0003 ppm | 0.0045 ppm | 0.0014 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0000 ppm | -0.0002 ppm | -0.0004 ppm | -0.0026 ppm | 0.0200 ppm | 0.0025 ppm |
| Concentration RSD | 97.9 % | 44.7 % | 67.6 % | 1,464.2 % | 80.8 % | 378.6 % | 85.1 % |

| | 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 | 0.0000 ppm | 0.0041 ppm | 0.0003 ppm | 0.0006 ppm | 0.0007 ppm | -0.0008 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0000 ppm | 0.0102 ppm | 0.0001 ppm | 0.0007 ppm | -0.0012 ppm | -0.0023 ppm |
| Concentration per Run 2 | 0.0005 ppm | -0.0001 ppm | 0.0010 ppm | 0.0004 ppm | 0.0001 ppm | 0.0023 ppm | -0.0007 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0000 ppm | 0.0012 ppm | 0.0002 ppm | 0.0010 ppm | 0.0008 ppm | 0.0006 ppm |
| Concentration RSD | 1,102.5 % | 604.2 % | 128.5 % | 63.4 % | 75.4 % | 262.0 % | 179.7 % |

| | 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 | -0.0004 ppm | 0.0000 ppm | 0.0001 ppm | 0.0011 ppm | -0.0001 ppm | -0.0005 ppm |
| Concentration per Run 1 | 0.0073 ppm | -0.0004 ppm | 0.0001 ppm | 0.0001 ppm | 0.0008 ppm | -0.0002 ppm | -0.0007 ppm |
| Concentration per Run 2 | 0.0067 ppm | -0.0006 ppm | 0.0000 ppm | 0.0001 ppm | 0.0016 ppm | -0.0001 ppm | -0.0004 ppm |
| Concentration per Run 3 | 0.0064 ppm | -0.0003 ppm | 0.0000 ppm | 0.0000 ppm | 0.0010 ppm | 0.0000 ppm | -0.0005 ppm |
| Concentration RSD | 6.7 % | 36.9 % | 224.5 % | 17.4 % | 37.9 % | 171.2 % | 30.3 % |

| | 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 | 96.3879 % | 105.6933 % | 104.6352 % | 92.4688 % | 100.1892 % | 101.3552 % | -0.0002 ppm |
| Concentration per Run 1 | 92.8052 % | 104.0742 % | 103.4860 % | 83.0332 % | 98.1737 % | 101.0215 % | -0.0006 ppm |
| Concentration per Run 2 | 98.1870 % | 104.2681 % | 105.2493 % | 95.3242 % | 101.0028 % | 101.6889 % | -0.0001 ppm |
| Concentration per Run 3 | 98.1714 % | 108.7376 % | 105.1702 % | 99.0489 % | 101.3912 % | 0.0000 % | -0.0001 ppm |
| Concentration RSD | 3.2 % | 2.5 % | 1.0 % | 9.1 % | 1.8 % | 0.5 % | 114.1 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010972-2 WG2010972
Analysis started at: 12/19/2024 3:33:41 PM
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 | 0.0502 ppm | 2.3917 ppm | 0.1196 ppm | 0.9697 ppm | 2.2868 ppm | 0.0565 ppm | 11.4047 ppm |
| Concentration per Run 1 | 0.0503 ppm | 2.6511 ppm | 0.1212 ppm | 0.9739 ppm | 2.5292 ppm | 0.0626 ppm | 12.6175 ppm |
| Concentration per Run 2 | 0.0500 ppm | 2.3148 ppm | 0.1191 ppm | 0.9715 ppm | 2.2163 ppm | 0.0549 ppm | 11.0709 ppm |
| Concentration per Run 3 | 0.0503 ppm | 2.2092 ppm | 0.1185 ppm | 0.9637 ppm | 2.1150 ppm | 0.0520 ppm | 10.5259 ppm |
| Concentration RSD | 0.3 % | 9.6 % | 1.2 % | 0.6 % | 9.4 % | 9.7 % | 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 | 0.0533 ppm | 0.5150 ppm | 0.1987 ppm | 0.2536 ppm | 1.0784 ppm | 11.7215 ppm | 10.1419 ppm |
| Concentration per Run 1 | 0.0535 ppm | 0.5178 ppm | 0.1998 ppm | 0.2530 ppm | 1.1908 ppm | 12.9837 ppm | 10.1497 ppm |
| Concentration per Run 2 | 0.0532 ppm | 0.5143 ppm | 0.1987 ppm | 0.2537 ppm | 1.0449 ppm | 11.3192 ppm | 10.1571 ppm |
| Concentration per Run 3 | 0.0531 ppm | 0.5129 ppm | 0.1976 ppm | 0.2543 ppm | 0.9995 ppm | 10.8617 ppm | 10.1191 ppm |
| Concentration RSD | 0.4 % | 0.5 % | 0.5 % | 0.3 % | 9.3 % | 9.5 % | 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 | 0.5384 ppm | 0.9701 ppm | 12.0448 ppm | 0.4947 ppm | 0.5609 ppm | 0.5060 ppm | 0.1251 ppm |
| Concentration per Run 1 | 0.5947 ppm | 0.9663 ppm | 13.3075 ppm | 0.4968 ppm | 0.5625 ppm | 0.5060 ppm | 0.1274 ppm |
| Concentration per Run 2 | 0.5230 ppm | 0.9712 ppm | 11.6604 ppm | 0.4945 ppm | 0.5608 ppm | 0.5078 ppm | 0.1256 ppm |
| Concentration per Run 3 | 0.4977 ppm | 0.9726 ppm | 11.1664 ppm | 0.4927 ppm | 0.5594 ppm | 0.5043 ppm | 0.1224 ppm |
| Concentration RSD | 9.3 % | 0.3 % | 9.3 % | 0.4 % | 0.3 % | 0.3 % | 2.0 % |

| | 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 | 0.9889 ppm | 0.9589 ppm | 1.1058 ppm | 1.0176 ppm | 0.1261 ppm | 0.4976 ppm | 0.5027 ppm |
| Concentration per Run 1 | 0.9936 ppm | 0.9618 ppm | 1.2246 ppm | 1.0208 ppm | 0.1277 ppm | 0.4995 ppm | 0.5046 ppm |
| Concentration per Run 2 | 0.9873 ppm | 0.9575 ppm | 1.0708 ppm | 1.0165 ppm | 0.1245 ppm | 0.4969 ppm | 0.5023 ppm |
| Concentration per Run 3 | 0.9858 ppm | 0.9575 ppm | 1.0219 ppm | 1.0155 ppm | 0.1259 ppm | 0.4965 ppm | 0.5012 ppm |
| Concentration RSD | 0.4 % | 0.3 % | 9.6 % | 0.3 % | 1.3 % | 0.3 % | 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 | 93.7449 % | 102.4937 % | 103.5772 % | 97.0570 % | 96.6306 % | 102.8909 % | -0.0003 ppm |
| Concentration per Run 1 | 88.1348 % | 102.8881 % | 103.7722 % | 88.2556 % | 96.1938 % | 103.1257 % | -0.0017 ppm |
| Concentration per Run 2 | 96.3285 % | 102.5298 % | 103.3506 % | 99.2502 % | 96.5898 % | 102.8946 % | 0.0005 ppm |
| Concentration per Run 3 | 96.7712 % | 102.0632 % | 103.6088 % | 103.6650 % | 97.1082 % | 102.6525 % | 0.0002 ppm |
| Concentration RSD | 5.2 % | 0.4 % | 0.2 % | 8.2 % | 0.5 % | 0.2 % | 366.3 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473051-01 WG2010972
Analysis started at: 12/19/2024 3:40:05 PM
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 | 0.0001 ppm | 0.1811 ppm | 0.0013 ppm | 0.0127 ppm | 0.0646 ppm | -0.0001 ppm | 53.8429 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.1897 ppm | 0.0014 ppm | 0.0128 ppm | 0.0702 ppm | 0.0000 ppm | 59.0442 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.1791 ppm | 0.0006 ppm | 0.0126 ppm | 0.0631 ppm | 0.0000 ppm | 52.4959 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.1747 ppm | 0.0021 ppm | 0.0125 ppm | 0.0604 ppm | -0.0001 ppm | 49.9884 ppm |
| Concentration RSD | 123.0 % | 4.3 % | 55.0 % | 1.2 % | 7.8 % | 51.0 % | 8.7 % |

| | 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 | 0.0000 ppm | 0.0001 ppm | 0.0002 ppm | 0.0010 ppm | 0.2546 ppm | 1.7586 ppm | 26.2885 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0001 ppm | 0.0003 ppm | 0.0009 ppm | 0.2779 ppm | 1.9296 ppm | 26.4088 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0002 ppm | -0.0001 ppm | 0.0011 ppm | 0.2487 ppm | 1.6900 ppm | 26.2800 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0001 ppm | 0.0004 ppm | 0.0010 ppm | 0.2371 ppm | 1.6561 ppm | 26.1769 ppm |
| Concentration RSD | 118.1 % | 166.1 % | 106.2 % | 12.0 % | 8.3 % | 8.5 % | 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 | 0.0112 ppm | 0.0027 ppm | 1.7386 ppm | 0.0004 ppm | 0.0004 ppm | 0.0016 ppm | -0.0004 ppm |
| Concentration per Run 1 | 0.0123 ppm | 0.0029 ppm | 1.8808 ppm | 0.0003 ppm | 0.0008 ppm | 0.0010 ppm | -0.0017 ppm |
| Concentration per Run 2 | 0.0109 ppm | 0.0028 ppm | 1.7027 ppm | 0.0004 ppm | -0.0001 ppm | 0.0022 ppm | 0.0002 ppm |
| Concentration per Run 3 | 0.0104 ppm | 0.0025 ppm | 1.6323 ppm | 0.0004 ppm | 0.0006 ppm | 0.0016 ppm | 0.0004 ppm |
| Concentration RSD | 8.7 % | 8.2 % | 7.4 % | 15.5 % | 103.2 % | 38.2 % | 326.4 % |

| | 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 | 2.8209 ppm | 0.0017 ppm | 0.5022 ppm | 0.0041 ppm | 0.0008 ppm | 0.0004 ppm | 0.0038 ppm |
| Concentration per Run 1 | 2.8361 ppm | 0.0025 ppm | 0.5457 ppm | 0.0046 ppm | -0.0012 ppm | 0.0002 ppm | 0.0037 ppm |
| Concentration per Run 2 | 2.8185 ppm | 0.0011 ppm | 0.4899 ppm | 0.0041 ppm | 0.0011 ppm | 0.0003 ppm | 0.0039 ppm |
| Concentration per Run 3 | 2.8082 ppm | 0.0014 ppm | 0.4710 ppm | 0.0036 ppm | 0.0025 ppm | 0.0007 ppm | 0.0038 ppm |
| Concentration RSD | 0.5 % | 42.9 % | 7.7 % | 12.5 % | 245.2 % | 65.8 % | 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 | 95.8440 % | 101.7111 % | 101.7915 % | 92.6855 % | 95.1759 % | 100.0393 % | 0.0085 ppm |
| Concentration per Run 1 | 93.3246 % | 102.1018 % | 101.8128 % | 84.9808 % | 94.8280 % | 100.0658 % | 0.0088 ppm |
| Concentration per Run 2 | 97.1694 % | 101.7750 % | 102.0003 % | 94.4628 % | 95.1982 % | 100.1498 % | 0.0084 ppm |
| Concentration per Run 3 | 97.0380 % | 101.2564 % | 101.5614 % | 98.6128 % | 95.5015 % | 99.9024 % | 0.0081 ppm |
| Concentration RSD | 2.3 % | 0.4 % | 0.2 % | 7.5 % | 0.4 % | 0.1 % | 3.9 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010972-3 WG2010972
Analysis started at: 12/19/2024 3:46:45 PM
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 | 0.0518 ppm | 2.6462 ppm | 0.1259 ppm | 1.0207 ppm | 2.4063 ppm | 0.0581 ppm | 64.6922 ppm |
| Concentration per Run 1 | 0.0523 ppm | 2.8876 ppm | 0.1253 ppm | 1.0235 ppm | 2.6363 ppm | 0.0637 ppm | 70.8696 ppm |
| Concentration per Run 2 | 0.0515 ppm | 2.5581 ppm | 0.1250 ppm | 1.0200 ppm | 2.3394 ppm | 0.0563 ppm | 62.6888 ppm |
| Concentration per Run 3 | 0.0516 ppm | 2.4928 ppm | 0.1273 ppm | 1.0185 ppm | 2.2432 ppm | 0.0542 ppm | 60.5183 ppm |
| Concentration RSD | 0.8 % | 8.0 % | 1.0 % | 0.2 % | 8.5 % | 8.6 % | 8.4 % |

| | 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 | 0.0536 ppm | 0.5188 ppm | 0.1998 ppm | 0.2627 ppm | 1.3442 ppm | 13.8494 ppm | 36.9480 ppm |
| Concentration per Run 1 | 0.0536 ppm | 0.5201 ppm | 0.2000 ppm | 0.2647 ppm | 1.4677 ppm | 15.1541 ppm | 37.1170 ppm |
| Concentration per Run 2 | 0.0537 ppm | 0.5192 ppm | 0.2004 ppm | 0.2604 ppm | 1.3024 ppm | 13.4507 ppm | 36.8895 ppm |
| Concentration per Run 3 | 0.0536 ppm | 0.5170 ppm | 0.1990 ppm | 0.2628 ppm | 1.2624 ppm | 12.9435 ppm | 36.8374 ppm |
| Concentration RSD | 0.2 % | 0.3 % | 0.4 % | 0.8 % | 8.1 % | 8.4 % | 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 | 0.5586 ppm | 0.9717 ppm | 14.1001 ppm | 0.4969 ppm | 0.5618 ppm | 0.5204 ppm | 0.1296 ppm |
| Concentration per Run 1 | 0.6114 ppm | 0.9658 ppm | 15.4476 ppm | 0.4986 ppm | 0.5648 ppm | 0.5213 ppm | 0.1284 ppm |
| Concentration per Run 2 | 0.5432 ppm | 0.9734 ppm | 13.7032 ppm | 0.4966 ppm | 0.5609 ppm | 0.5177 ppm | 0.1309 ppm |
| Concentration per Run 3 | 0.5212 ppm | 0.9760 ppm | 13.1494 ppm | 0.4954 ppm | 0.5597 ppm | 0.5222 ppm | 0.1296 ppm |
| Concentration RSD | 8.4 % | 0.5 % | 8.5 % | 0.3 % | 0.5 % | 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 | 3.9542 ppm | 0.9639 ppm | 1.6227 ppm | 1.0270 ppm | 0.1255 ppm | 0.5060 ppm | 0.5096 ppm |
| Concentration per Run 1 | 3.9666 ppm | 0.9660 ppm | 1.7784 ppm | 1.0284 ppm | 0.1256 ppm | 0.5067 ppm | 0.5088 ppm |
| Concentration per Run 2 | 3.9530 ppm | 0.9619 ppm | 1.5763 ppm | 1.0292 ppm | 0.1263 ppm | 0.5066 ppm | 0.5124 ppm |
| Concentration per Run 3 | 3.9431 ppm | 0.9637 ppm | 1.5135 ppm | 1.0233 ppm | 0.1245 ppm | 0.5045 ppm | 0.5078 ppm |
| Concentration RSD | 0.3 % | 0.2 % | 8.5 % | 0.3 % | 0.7 % | 0.2 % | 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 | 95.2468 % | 101.7770 % | 101.7188 % | 95.9360 % | 93.6536 % | 101.2769 % | 0.0092 ppm |
| Concentration per Run 1 | 91.6641 % | 101.5659 % | 101.4294 % | 88.0284 % | 93.2277 % | 100.7392 % | 0.0101 ppm |
| Concentration per Run 2 | 97.0631 % | 102.5663 % | 102.0552 % | 98.0809 % | 93.7748 % | 101.9917 % | 0.0085 ppm |
| Concentration per Run 3 | 97.0133 % | 101.1988 % | 101.6718 % | 101.6985 % | 93.9584 % | 101.0997 % | 0.0090 ppm |
| Concentration RSD | 3.3 % | 0.7 % | 0.3 % | 7.4 % | 0.4 % | 0.6 % | 8.9 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010972-4 WG2010972
Analysis started at: 12/19/2024 3:53:48 PM
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 | 0.1910 ppm | 0.0013 ppm | 0.0133 ppm | 0.0671 ppm | 0.0000 ppm | 55.2747 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.2168 ppm | 0.0009 ppm | 0.0134 ppm | 0.0735 ppm | 0.0000 ppm | 61.2102 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.1834 ppm | 0.0031 ppm | 0.0134 ppm | 0.0655 ppm | 0.0000 ppm | 53.4625 ppm |
| Concentration per Run 3 | 0.0004 ppm | 0.1728 ppm | -0.0002 ppm | 0.0129 ppm | 0.0624 ppm | 0.0000 ppm | 51.1513 ppm |
| Concentration RSD | 245.8 % | 12.0 % | 131.7 % | 2.2 % | 8.5 % | 34.8 % | 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 | 0.0002 ppm | 0.0005 ppm | 0.0012 ppm | 0.2639 ppm | 1.8172 ppm | 26.8013 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0003 ppm | 0.0003 ppm | 0.0014 ppm | 0.2880 ppm | 1.9908 ppm | 26.8845 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | 0.0006 ppm | 0.0010 ppm | 0.2541 ppm | 1.7569 ppm | 26.8471 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0001 ppm | 0.0006 ppm | 0.0012 ppm | 0.2494 ppm | 1.7040 ppm | 26.6724 ppm |
| Concentration RSD | 117.5 % | 93.7 % | 34.2 % | 14.6 % | 8.0 % | 8.4 % | 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 | 0.0108 ppm | 0.0027 ppm | 1.7882 ppm | 0.0003 ppm | 0.0011 ppm | 0.0019 ppm | -0.0006 ppm |
| Concentration per Run 1 | 0.0119 ppm | 0.0028 ppm | 1.9543 ppm | 0.0003 ppm | 0.0007 ppm | 0.0015 ppm | 0.0002 ppm |
| Concentration per Run 2 | 0.0106 ppm | 0.0026 ppm | 1.7376 ppm | 0.0000 ppm | 0.0011 ppm | 0.0027 ppm | -0.0001 ppm |
| Concentration per Run 3 | 0.0098 ppm | 0.0027 ppm | 1.6727 ppm | 0.0006 ppm | 0.0013 ppm | 0.0014 ppm | -0.0021 ppm |
| Concentration RSD | 9.9 % | 4.6 % | 8.2 % | 92.5 % | 28.5 % | 38.5 % | 194.5 % |

| | 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 | 2.8728 ppm | 0.0014 ppm | 0.5150 ppm | 0.0042 ppm | 0.0004 ppm | 0.0003 ppm | 0.0036 ppm |
| Concentration per Run 1 | 2.8862 ppm | 0.0016 ppm | 0.5635 ppm | 0.0046 ppm | 0.0003 ppm | 0.0001 ppm | 0.0036 ppm |
| Concentration per Run 2 | 2.8812 ppm | 0.0010 ppm | 0.5018 ppm | 0.0040 ppm | 0.0001 ppm | 0.0004 ppm | 0.0037 ppm |
| Concentration per Run 3 | 2.8508 ppm | 0.0015 ppm | 0.4799 ppm | 0.0040 ppm | 0.0009 ppm | 0.0004 ppm | 0.0035 ppm |
| Concentration RSD | 0.7 % | 26.0 % | 8.4 % | 7.5 % | 97.6 % | 51.1 % | 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 | 95.5404 % | 101.5831 % | 101.9137 % | 92.0117 % | 95.6649 % | 99.5519 % | 0.0089 ppm |
| Concentration per Run 1 | 91.6743 % | 101.2791 % | 101.1824 % | 83.6341 % | 95.5147 % | 98.7234 % | 0.0092 ppm |
| Concentration per Run 2 | 97.3316 % | 102.1048 % | 102.2543 % | 94.1951 % | 95.4146 % | 100.1358 % | 0.0095 ppm |
| Concentration per Run 3 | 97.6153 % | 101.3654 % | 102.3042 % | 98.2058 % | 96.0654 % | 99.7966 % | 0.0081 ppm |
| Concentration RSD | 3.5 % | 0.4 % | 0.6 % | 8.2 % | 0.4 % | 0.7 % | 8.4 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010972-5 WG2010972
Analysis started at: 12/19/2024 4:00:29 PM
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 | 0.0521 ppm | 2.5951 ppm | 0.1292 ppm | 1.0658 ppm | 2.4419 ppm | 0.0596 ppm | 62.6652 ppm |
| Concentration per Run 1 | 0.0522 ppm | 2.8229 ppm | 0.1288 ppm | 1.0683 ppm | 2.6608 ppm | 0.0648 ppm | 68.4479 ppm |
| Concentration per Run 2 | 0.0518 ppm | 2.5371 ppm | 0.1308 ppm | 1.0664 ppm | 2.3778 ppm | 0.0584 ppm | 61.3981 ppm |
| Concentration per Run 3 | 0.0523 ppm | 2.4254 ppm | 0.1280 ppm | 1.0627 ppm | 2.2871 ppm | 0.0556 ppm | 58.1496 ppm |
| Concentration RSD | 0.4 % | 7.9 % | 1.1 % | 0.3 % | 8.0 % | 7.9 % | 8.4 % |

| | 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 | 0.0540 ppm | 0.5321 ppm | 0.2040 ppm | 0.2698 ppm | 1.3836 ppm | 14.4103 ppm | 35.7989 ppm |
| Concentration per Run 1 | 0.0543 ppm | 0.5341 ppm | 0.2038 ppm | 0.2715 ppm | 1.5021 ppm | 15.6913 ppm | 35.8685 ppm |
| Concentration per Run 2 | 0.0539 ppm | 0.5318 ppm | 0.2042 ppm | 0.2690 ppm | 1.3534 ppm | 14.0221 ppm | 35.8703 ppm |
| Concentration per Run 3 | 0.0538 ppm | 0.5303 ppm | 0.2040 ppm | 0.2688 ppm | 1.2952 ppm | 13.5176 ppm | 35.6579 ppm |
| Concentration RSD | 0.5 % | 0.4 % | 0.1 % | 0.6 % | 7.7 % | 7.9 % | 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 | 0.5826 ppm | 1.0202 ppm | 14.7346 ppm | 0.5241 ppm | 0.5746 ppm | 0.5314 ppm | 0.1333 ppm |
| Concentration per Run 1 | 0.6369 ppm | 1.0134 ppm | 16.0643 ppm | 0.5261 ppm | 0.5762 ppm | 0.5281 ppm | 0.1333 ppm |
| Concentration per Run 2 | 0.5685 ppm | 1.0218 ppm | 14.3543 ppm | 0.5242 ppm | 0.5747 ppm | 0.5330 ppm | 0.1339 ppm |
| Concentration per Run 3 | 0.5422 ppm | 1.0254 ppm | 13.7851 ppm | 0.5219 ppm | 0.5729 ppm | 0.5330 ppm | 0.1327 ppm |
| Concentration RSD | 8.4 % | 0.6 % | 8.1 % | 0.4 % | 0.3 % | 0.5 % | 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 | 3.9927 ppm | 1.0229 ppm | 1.6533 ppm | 1.0803 ppm | 0.1277 ppm | 0.5177 ppm | 0.5370 ppm |
| Concentration per Run 1 | 3.9998 ppm | 1.0246 ppm | 1.8004 ppm | 1.0826 ppm | 0.1278 ppm | 0.5186 ppm | 0.5406 ppm |
| Concentration per Run 2 | 4.0004 ppm | 1.0214 ppm | 1.6100 ppm | 1.0804 ppm | 0.1275 ppm | 0.5171 ppm | 0.5346 ppm |
| Concentration per Run 3 | 3.9779 ppm | 1.0228 ppm | 1.5496 ppm | 1.0780 ppm | 0.1278 ppm | 0.5172 ppm | 0.5357 ppm |
| Concentration RSD | 0.3 % | 0.2 % | 7.9 % | 0.2 % | 0.2 % | 0.2 % | 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 | 94.5407 % | 101.3480 % | 101.9581 % | 94.6950 % | 93.8088 % | 101.0150 % | 0.0082 ppm |
| Concentration per Run 1 | 91.4708 % | 101.3673 % | 102.4139 % | 86.9716 % | 93.9120 % | 100.7983 % | 0.0090 ppm |
| Concentration per Run 2 | 95.6238 % | 101.2058 % | 101.2922 % | 96.2329 % | 93.3364 % | 100.9281 % | 0.0074 ppm |
| Concentration per Run 3 | 96.5274 % | 101.4710 % | 102.1682 % | 100.8804 % | 94.1781 % | 101.3187 % | 0.0081 ppm |
| Concentration RSD | 2.9 % | 0.1 % | 0.6 % | 7.5 % | 0.5 % | 0.3 % | 9.7 % |

# ICP DataTrace 6
12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010972-6D5 WG2010972
Analysis started at: 12/19/2024 4:06:50 PM
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 | 0.0002 ppm | 0.0295 ppm | 0.0020 ppm | 0.0042 ppm | 0.0121 ppm | 0.0000 ppm | 10.3195 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0317 ppm | 0.0016 ppm | 0.0045 ppm | 0.0131 ppm | 0.0000 ppm | 11.1449 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0266 ppm | 0.0024 ppm | 0.0041 ppm | 0.0119 ppm | 0.0000 ppm | 10.0809 ppm |
| Concentration per Run 3 | 0.0004 ppm | 0.0302 ppm | 0.0021 ppm | 0.0040 ppm | 0.0114 ppm | 0.0000 ppm | 9.7327 ppm |
| Concentration RSD | 136.0 % | 8.9 % | 20.2 % | 5.6 % | 7.1 % | 142.9 % | 7.1 % |

| | 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 | 0.0522 ppm | 0.3403 ppm | 5.0912 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0001 ppm | 0.0001 ppm | 0.0001 ppm | 0.0551 ppm | 0.4038 ppm | 5.1034 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0005 ppm | 0.0503 ppm | 0.3337 ppm | 5.0890 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0000 ppm | -0.0002 ppm | 0.0002 ppm | 0.0511 ppm | 0.2833 ppm | 5.0812 ppm |
| Concentration RSD | 69.7 % | 1,732.3 % | 1,505.7 % | 89.6 % | 4.9 % | 17.8 % | 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 | 0.0020 ppm | 0.0028 ppm | 0.3326 ppm | 0.0002 ppm | 0.0006 ppm | 0.0038 ppm | -0.0004 ppm |
| Concentration per Run 1 | 0.0018 ppm | 0.0031 ppm | 0.3595 ppm | 0.0002 ppm | 0.0001 ppm | 0.0037 ppm | 0.0002 ppm |
| Concentration per Run 2 | 0.0022 ppm | 0.0028 ppm | 0.3246 ppm | 0.0004 ppm | 0.0012 ppm | 0.0043 ppm | -0.0014 ppm |
| Concentration per Run 3 | 0.0019 ppm | 0.0026 ppm | 0.3136 ppm | 0.0002 ppm | 0.0005 ppm | 0.0035 ppm | 0.0000 ppm |
| Concentration RSD | 11.7 % | 9.6 % | 7.2 % | 47.0 % | 89.4 % | 10.0 % | 214.6 % |

| | 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 | 0.5442 ppm | 0.0026 ppm | 0.0943 ppm | 0.0009 ppm | 0.0005 ppm | 0.0001 ppm | 0.0023 ppm |
| Concentration per Run 1 | 0.5544 ppm | 0.0027 ppm | 0.1015 ppm | 0.0008 ppm | 0.0007 ppm | 0.0000 ppm | 0.0022 ppm |
| Concentration per Run 2 | 0.5386 ppm | 0.0032 ppm | 0.0917 ppm | 0.0010 ppm | -0.0004 ppm | 0.0002 ppm | 0.0024 ppm |
| Concentration per Run 3 | 0.5396 ppm | 0.0020 ppm | 0.0896 ppm | 0.0010 ppm | 0.0010 ppm | 0.0000 ppm | 0.0022 ppm |
| Concentration RSD | 1.6 % | 22.6 % | 6.7 % | 15.7 % | 156.8 % | 199.4 % | 3.9 % |

| | 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 | 94.7963 % | 103.2427 % | 104.6486 % | 97.9671 % | 99.3374 % | 103.0876 % | 0.0016 ppm |
| Concentration per Run 1 | 92.8034 % | 103.5313 % | 103.2866 % | 91.0214 % | 97.6483 % | 103.1516 % | 0.0020 ppm |
| Concentration per Run 2 | 95.7390 % | 103.1372 % | 105.3716 % | 99.8329 % | 100.2809 % | 103.0667 % | 0.0014 ppm |
| Concentration per Run 3 | 95.8464 % | 103.0595 % | 105.2875 % | 103.0469 % | 100.0830 % | 103.0445 % | 0.0013 ppm |
| Concentration RSD | 1.8 % | 0.2 % | 1.1 % | 6.4 % | 1.5 % | 0.1 % | 24.3 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 4:13:30 PM
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 | 0.4712 ppm | 0.5043 ppm | 0.4678 ppm | 0.4892 ppm | 0.4905 ppm | 0.4963 ppm | 0.5101 ppm |
| Concentration per Run 1 | 0.4711 ppm | 0.5244 ppm | 0.4680 ppm | 0.4900 ppm | 0.5138 ppm | 0.5206 ppm | 0.5325 ppm |
| Concentration per Run 2 | 0.4717 ppm | 0.4954 ppm | 0.4693 ppm | 0.4908 ppm | 0.4834 ppm | 0.4874 ppm | 0.4992 ppm |
| Concentration per Run 3 | 0.4707 ppm | 0.4930 ppm | 0.4661 ppm | 0.4867 ppm | 0.4742 ppm | 0.4810 ppm | 0.4987 ppm |
| Recovery Percentage 1 | 94.236 % | 100.851 % | 93.556 % | 97.835 % | 98.097 % | 99.265 % | 102.028 % |
| Concentration RSD | 0.1 % | 3.5 % | 0.3 % | 0.4 % | 4.2 % | 4.3 % | 3.8 % |

| | 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 | 0.4781 ppm | 0.5068 ppm | 0.4739 ppm | 0.4704 ppm | 0.4830 ppm | 5.1497 ppm | 0.4909 ppm |
| Concentration per Run 1 | 0.4773 ppm | 0.5068 ppm | 0.4751 ppm | 0.4700 ppm | 0.5054 ppm | 5.3478 ppm | 0.4900 ppm |
| Concentration per Run 2 | 0.4783 ppm | 0.5083 ppm | 0.4748 ppm | 0.4698 ppm | 0.4753 ppm | 5.1145 ppm | 0.4898 ppm |
| Concentration per Run 3 | 0.4785 ppm | 0.5054 ppm | 0.4719 ppm | 0.4713 ppm | 0.4685 ppm | 4.9867 ppm | 0.4929 ppm |
| Recovery Percentage 1 | 95.611 % | 101.367 % | 94.787 % | 94.075 % | 96.610 % | 102.993 % | 98.186 % |
| Concentration RSD | 0.1 % | 0.3 % | 0.4 % | 0.2 % | 4.1 % | 3.6 % | 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 | 0.4740 ppm | 0.4869 ppm | 10.3226 ppm | 0.4942 ppm | 0.5042 ppm | 0.5106 ppm | 0.4970 ppm |
| Concentration per Run 1 | 0.4971 ppm | 0.4852 ppm | 10.8077 ppm | 0.4955 ppm | 0.5046 ppm | 0.5122 ppm | 0.4995 ppm |
| Concentration per Run 2 | 0.4659 ppm | 0.4887 ppm | 10.1889 ppm | 0.4937 ppm | 0.5048 ppm | 0.5116 ppm | 0.4973 ppm |
| Concentration per Run 3 | 0.4589 ppm | 0.4868 ppm | 9.9712 ppm | 0.4936 ppm | 0.5032 ppm | 0.5080 ppm | 0.4944 ppm |
| Recovery Percentage 1 | 94.794 % | 97.382 % | 103.226 % | 98.847 % | 100.839 % | 102.117 % | 99.409 % |
| Concentration RSD | 4.3 % | 0.4 % | 4.2 % | 0.2 % | 0.2 % | 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 | 5.6416 ppm | 0.4865 ppm | 0.5088 ppm | 0.4970 ppm | 0.4960 ppm | 0.4753 ppm | 0.5033 ppm |
| Concentration per Run 1 | 5.6456 ppm | 0.4859 ppm | 0.5335 ppm | 0.4969 ppm | 0.4990 ppm | 0.4756 ppm | 0.5024 ppm |
| Concentration per Run 2 | 5.6651 ppm | 0.4874 ppm | 0.5014 ppm | 0.4972 ppm | 0.4950 ppm | 0.4749 ppm | 0.5028 ppm |
| Concentration per Run 3 | 5.6142 ppm | 0.4863 ppm | 0.4917 ppm | 0.4970 ppm | 0.4939 ppm | 0.4755 ppm | 0.5047 ppm |
| Recovery Percentage 1 | 107.459 % | 97.310 % | 101.769 % | 99.405 % | 99.194 % | 95.066 % | 100.656 % |
| Concentration RSD | 0.5 % | 0.2 % | 4.3 % | 0.0 % | 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 | 95.6676 % | 103.3140 % | 105.9687 % | 106.3007 % | 98.7442 % | 104.6271 % | 0.5047 ppm |
| Concentration per Run 1 | 94.2647 % | 103.6056 % | 105.9823 % | 101.7880 % | 98.7331 % | 104.7944 % | 0.5295 ppm |
| Concentration per Run 2 | 96.9173 % | 103.3053 % | 105.6708 % | 107.8496 % | 98.4547 % | 104.6063 % | 0.4991 ppm |
| Concentration per Run 3 | 95.8208 % | 103.0309 % | 106.2531 % | 109.2645 % | 99.0449 % | 104.4805 % | 0.4855 ppm |
| Recovery Percentage 1 | | | | | | | 100.943 % |
| Concentration RSD | 1.4 % | 0.3 % | 0.3 % | 3.7 % | 0.3 % | 0.2 % | 4.5 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/19/2024 4:19:55 PM
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 | -0.0037 ppm | 0.0013 ppm | 0.0017 ppm | 0.0000 ppm | 0.0000 ppm | 0.0561 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0052 ppm | 0.0010 ppm | 0.0017 ppm | 0.0000 ppm | 0.0000 ppm | 0.0548 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0036 ppm | 0.0021 ppm | 0.0017 ppm | 0.0000 ppm | 0.0000 ppm | 0.0556 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0023 ppm | 0.0008 ppm | 0.0017 ppm | 0.0000 ppm | 0.0000 ppm | 0.0579 ppm |
| Recovery Percentage 1 | -0.185 % | -3.706 % | 25.822 % | 5.687 % | -0.016 % | -0.230 % | 56.114 % |
| Concentration RSD | 883.1 % | 40.0 % | 53.3 % | 2.6 % | 2,586.1 % | 118.0 % | 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 | 0.0000 ppm | -0.0001 ppm | -0.0001 ppm | -0.0002 ppm | -0.0002 ppm | -0.0089 ppm | -0.0007 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0001 ppm | 0.0001 ppm | -0.0001 ppm | -0.0005 ppm | -0.0219 ppm | 0.0002 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0000 ppm | -0.0001 ppm | -0.0002 ppm | -0.0006 ppm | 0.0015 ppm | -0.0004 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0002 ppm | -0.0002 ppm | -0.0003 ppm | 0.0006 ppm | -0.0064 ppm | -0.0019 ppm |
| Recovery Percentage 1 | 0.771 % | -0.563 % | -0.622 % | -2.212 % | -0.320 % | -0.357 % | -0.719 % |
| Concentration RSD | 101.2 % | 55.5 % | 221.1 % | 48.9 % | 417.6 % | 133.2 % | 152.2 % |

| | 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 | -0.0004 ppm | 0.0010 ppm | -0.0004 ppm | 0.0000 ppm | -0.0002 ppm | 0.0009 ppm | -0.0003 ppm |
| Concentration per Run 1 | -0.0009 ppm | 0.0012 ppm | -0.0043 ppm | 0.0001 ppm | 0.0003 ppm | 0.0009 ppm | 0.0004 ppm |
| Concentration per Run 2 | -0.0004 ppm | 0.0010 ppm | 0.0004 ppm | -0.0003 ppm | -0.0009 ppm | 0.0012 ppm | -0.0010 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0008 ppm | 0.0026 ppm | 0.0000 ppm | 0.0000 ppm | 0.0006 ppm | -0.0004 ppm |
| Recovery Percentage 1 | -4.331 % | 1.996 % | -0.022 % | -0.197 % | -2.065 % | 1.795 % | -3.228 % |
| Concentration RSD | 92.9 % | 21.9 % | 815.1 % | 429.1 % | 281.7 % | 36.4 % | 209.4 % |

| | 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 | 0.0020 ppm | 0.0004 ppm | 0.0001 ppm | 0.0001 ppm | 0.0006 ppm | 0.0000 ppm | -0.0011 ppm |
| Concentration per Run 1 | 0.0017 ppm | 0.0005 ppm | 0.0002 ppm | 0.0000 ppm | 0.0018 ppm | 0.0001 ppm | -0.0012 ppm |
| Concentration per Run 2 | 0.0022 ppm | 0.0009 ppm | 0.0000 ppm | 0.0003 ppm | -0.0005 ppm | 0.0000 ppm | -0.0010 ppm |
| Concentration per Run 3 | 0.0019 ppm | 0.0000 ppm | 0.0001 ppm | 0.0001 ppm | 0.0005 ppm | -0.0001 ppm | -0.0011 ppm |
| Recovery Percentage 1 | 0.391 % | 0.897 % | 0.887 % | 1.212 % | 2.974 % | 0.034 % | -21.757 % |
| Concentration RSD | 11.8 % | 108.6 % | 88.7 % | 118.6 % | 198.0 % | 2,691.6 % | 8.6 % |

| | 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 | 95.5599 % | 104.7852 % | 105.9136 % | 100.9327 % | 100.9095 % | 104.6509 % | 0.0004 ppm |
| Concentration per Run 1 | 92.8576 % | 104.2697 % | 106.2804 % | 93.7098 % | 100.6734 % | 103.8333 % | 0.0008 ppm |
| Concentration per Run 2 | 96.8005 % | 105.1073 % | 105.8955 % | 103.1065 % | 100.3651 % | 105.0738 % | 0.0005 ppm |
| Concentration per Run 3 | 97.0217 % | 104.9787 % | 105.5650 % | 105.9817 % | 101.6899 % | 105.0455 % | -0.0003 ppm |
| Recovery Percentage 1 | | | | | | | 3.532 % |
| Concentration RSD | 2.5 % | 0.4 % | 0.3 % | 6.4 % | 0.7 % | 0.7 % | 158.2 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473010-01 WG2010972
Analysis started at: 12/19/2024 4:32:28 PM
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 | 0.0002 ppm | 0.2556 ppm | 0.0062 ppm | 0.2387 ppm | 0.1765 ppm | 0.0000 ppm | 111.4028 ppm |
| Concentration per Run 1 | 0.0005 ppm | 0.2713 ppm | 0.0070 ppm | 0.2390 ppm | 0.1904 ppm | 0.0001 ppm | 119.4813 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.2520 ppm | 0.0046 ppm | 0.2387 ppm | 0.1729 ppm | 0.0000 ppm | 109.2288 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.2435 ppm | 0.0071 ppm | 0.2385 ppm | 0.1661 ppm | 0.0000 ppm | 105.4983 ppm |
| Concentration RSD | 100.0 % | 5.6 % | 23.2 % | 0.1 % | 7.1 % | 125.3 % | 6.5 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0000 ppm | 0.0002 ppm | 0.0016 ppm | 0.0015 ppm | 27.3662 ppm | 15.2247 ppm | 18.8709 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0002 ppm | 0.0016 ppm | 0.0018 ppm | 29.3533 ppm | 16.4053 ppm | 18.9401 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0001 ppm | 0.0017 ppm | 0.0013 ppm | 26.8768 ppm | 14.9113 ppm | 18.8406 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0002 ppm | 0.0016 ppm | 0.0015 ppm | 25.8686 ppm | 14.3576 ppm | 18.8319 ppm |
| Concentration RSD | 62.5 % | 28.1 % | 3.8 % | 14.4 % | 6.6 % | 7.0 % | 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 | 1.6645 ppm | 0.0016 ppm | 64.8624 ppm | 0.0005 ppm | -0.0001 ppm | 0.0013 ppm | -0.0017 ppm |
| Concentration per Run 1 | 1.7898 ppm | 0.0019 ppm | 70.0204 ppm | 0.0008 ppm | -0.0007 ppm | -0.0002 ppm | -0.0012 ppm |
| Concentration per Run 2 | 1.6326 ppm | 0.0015 ppm | 63.5274 ppm | 0.0003 ppm | 0.0003 ppm | 0.0025 ppm | -0.0024 ppm |
| Concentration per Run 3 | 1.5711 ppm | 0.0015 ppm | 61.0392 ppm | 0.0004 ppm | 0.0000 ppm | 0.0016 ppm | -0.0015 ppm |
| Concentration RSD | 6.8 % | 14.4 % | 7.1 % | 45.3 % | 425.5 % | 104.9 % | 37.5 % |

| | 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 | 7.7750 ppm | 0.0004 ppm | 0.3808 ppm | 0.0082 ppm | 0.0010 ppm | 0.0008 ppm | 0.0030 ppm |
| Concentration per Run 1 | 7.7812 ppm | 0.0011 ppm | 0.4104 ppm | 0.0083 ppm | 0.0015 ppm | 0.0007 ppm | 0.0031 ppm |
| Concentration per Run 2 | 7.7860 ppm | -0.0003 ppm | 0.3733 ppm | 0.0084 ppm | 0.0011 ppm | 0.0009 ppm | 0.0029 ppm |
| Concentration per Run 3 | 7.7579 ppm | 0.0005 ppm | 0.3586 ppm | 0.0080 ppm | 0.0004 ppm | 0.0009 ppm | 0.0028 ppm |
| Concentration RSD | 0.2 % | 169.4 % | 7.0 % | 2.9 % | 58.4 % | 13.7 % | 5.4 % |

| | 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 | 93.7681 % | 100.7539 % | 101.5794 % | 98.8216 % | 92.6764 % | 100.8680 % | 0.0227 ppm |
| Concentration per Run 1 | 91.5676 % | 100.7072 % | 101.6919 % | 92.5105 % | 92.6622 % | 100.6235 % | 0.0249 ppm |
| Concentration per Run 2 | 95.4584 % | 100.9819 % | 101.5819 % | 100.6048 % | 92.5277 % | 101.1820 % | 0.0225 ppm |
| Concentration per Run 3 | 94.2783 % | 100.5725 % | 101.4643 % | 103.3497 % | 92.8394 % | 100.7986 % | 0.0206 ppm |
| Concentration RSD | 2.1 % | 0.2 % | 0.1 % | 5.7 % | 0.2 % | 0.3 % | 9.5 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473010-03 WG2010972
Analysis started at: 12/19/2024 4:39:03 PM
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 | 0.0008 ppm | 0.0009 ppm | 0.0020 ppm | 0.0003 ppm | -0.0001 ppm | 0.0955 ppm |
| Concentration per Run 1 | -0.0002 ppm | -0.0045 ppm | 0.0010 ppm | 0.0018 ppm | 0.0005 ppm | -0.0001 ppm | 0.1068 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0016 ppm | 0.0006 ppm | 0.0020 ppm | 0.0002 ppm | -0.0001 ppm | 0.0927 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0053 ppm | 0.0011 ppm | 0.0022 ppm | 0.0001 ppm | 0.0000 ppm | 0.0869 ppm |
| Concentration RSD | 283.5 % | 610.1 % | 31.5 % | 10.0 % | 74.4 % | 72.2 % | 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 | 0.0000 ppm | -0.0001 ppm | 0.0000 ppm | 0.0006 ppm | 0.0011 ppm | 0.0267 ppm | 0.0130 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0000 ppm | -0.0002 ppm | 0.0006 ppm | 0.0013 ppm | 0.0618 ppm | 0.0148 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0001 ppm | 0.0001 ppm | 0.0007 ppm | 0.0001 ppm | -0.0166 ppm | 0.0123 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0001 ppm | 0.0001 ppm | 0.0004 ppm | 0.0020 ppm | 0.0349 ppm | 0.0120 ppm |
| Concentration RSD | 8.0 % | 117.1 % | 694.6 % | 27.8 % | 86.8 % | 149.1 % | 11.7 % |

| | 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 | -0.0004 ppm | 0.0001 ppm | 0.4588 ppm | 0.0005 ppm | 0.0003 ppm | 0.0003 ppm | -0.0006 ppm |
| Concentration per Run 1 | -0.0004 ppm | 0.0001 ppm | 0.4988 ppm | 0.0005 ppm | 0.0003 ppm | -0.0001 ppm | -0.0016 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0002 ppm | 0.4415 ppm | 0.0006 ppm | -0.0002 ppm | 0.0011 ppm | -0.0003 ppm |
| Concentration per Run 3 | -0.0005 ppm | -0.0001 ppm | 0.4361 ppm | 0.0004 ppm | 0.0009 ppm | 0.0000 ppm | 0.0002 ppm |
| Concentration RSD | 40.6 % | 207.7 % | 7.6 % | 24.5 % | 163.3 % | 195.6 % | 153.6 % |

| | 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 | 0.0271 ppm | 0.0003 ppm | 0.0002 ppm | -0.0001 ppm | 0.0011 ppm | 0.0000 ppm | -0.0008 ppm |
| Concentration per Run 1 | 0.0269 ppm | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0007 ppm | 0.0000 ppm | -0.0008 ppm |
| Concentration per Run 2 | 0.0271 ppm | 0.0002 ppm | 0.0002 ppm | 0.0000 ppm | 0.0005 ppm | -0.0001 ppm | -0.0009 ppm |
| Concentration per Run 3 | 0.0272 ppm | 0.0006 ppm | 0.0002 ppm | -0.0001 ppm | 0.0020 ppm | 0.0002 ppm | -0.0008 ppm |
| Concentration RSD | 0.7 % | 111.2 % | 72.7 % | 58.5 % | 72.4 % | 397.8 % | 6.7 % |

| | 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 | 95.6756 % | 105.8113 % | 107.6499 % | 92.7242 % | 101.5930 % | 102.7830 % | 0.0006 ppm |
| Concentration per Run 1 | 92.1480 % | 105.7612 % | 107.4536 % | 84.3804 % | 100.7368 % | 102.1665 % | 0.0005 ppm |
| Concentration per Run 2 | 96.9878 % | 105.7003 % | 107.9494 % | 94.8208 % | 101.8030 % | 102.7125 % | 0.0005 ppm |
| Concentration per Run 3 | 97.8911 % | 105.9725 % | 107.5468 % | 98.9714 % | 102.2393 % | 103.4700 % | 0.0007 ppm |
| Concentration RSD | 3.2 % | 0.1 % | 0.2 % | 8.1 % | 0.8 % | 0.6 % | 19.6 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473051-02 WG2010972
Analysis started at: 12/19/2024 4:45:48 PM
Rack: 1
Vial: 31

| | Ag 328.068 {103} (Axial) | Al 396.152 {85} (Radial) | As 189.042 {478} (Axial) | B 208.959 {461} (Axial) | Ba 455.403 {74} (Radial) | Be 313.042 {108} (Radial) | Ca 315.887 {107} (Radial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0001 ppm | 1.6559 ppm | 0.0030 ppm | 0.0197 ppm | 0.0550 ppm | 0.0000 ppm | 71.5706 ppm |
| Concentration per Run 1 | 0.0000 ppm | 1.8153 ppm | 0.0040 ppm | 0.0198 ppm | 0.0605 ppm | 0.0001 ppm | 78.5610 ppm |
| Concentration per Run 2 | 0.0002 ppm | 1.6126 ppm | 0.0046 ppm | 0.0198 ppm | 0.0531 ppm | 0.0000 ppm | 69.7377 ppm |
| Concentration per Run 3 | 0.0003 ppm | 1.5399 ppm | 0.0004 ppm | 0.0195 ppm | 0.0515 ppm | 0.0000 ppm | 66.4130 ppm |
| Concentration RSD | 109.9 % | 8.6 % | 76.9 % | 0.9 % | 8.7 % | 54.9 % | 8.8 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0000 ppm | 0.0011 ppm | 0.0022 ppm | 0.0056 ppm | 2.8794 ppm | 7.2669 ppm | 20.8259 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0011 ppm | 0.0021 ppm | 0.0055 ppm | 3.1369 ppm | 7.9981 ppm | 20.8730 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0012 ppm | 0.0024 ppm | 0.0056 ppm | 2.8059 ppm | 7.0746 ppm | 20.8928 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0012 ppm | 0.0022 ppm | 0.0056 ppm | 2.6955 ppm | 6.7279 ppm | 20.7119 ppm |
| Concentration RSD | 39.2 % | 6.0 % | 6.7 % | 1.1 % | 8.0 % | 9.0 % | 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 | 0.1044 ppm | 0.0006 ppm | 9.3968 ppm | 0.0034 ppm | 0.0104 ppm | 0.0012 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.1139 ppm | 0.0006 ppm | 10.2897 ppm | 0.0034 ppm | 0.0109 ppm | 0.0011 ppm | 0.0006 ppm |
| Concentration per Run 2 | 0.1018 ppm | 0.0006 ppm | 9.1474 ppm | 0.0034 ppm | 0.0106 ppm | 0.0028 ppm | -0.0010 ppm |
| Concentration per Run 3 | 0.0975 ppm | 0.0005 ppm | 8.7534 ppm | 0.0034 ppm | 0.0098 ppm | -0.0004 ppm | 0.0008 ppm |
| Concentration RSD | 8.1 % | 13.0 % | 8.5 % | 0.8 % | 5.3 % | 138.9 % | 740.2 % |

| | 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 | 5.1797 ppm | 0.0004 ppm | 0.1988 ppm | 0.0134 ppm | 0.0006 ppm | 0.0026 ppm | 0.0414 ppm |
| Concentration per Run 1 | 5.1773 ppm | 0.0003 ppm | 0.2177 ppm | 0.0141 ppm | 0.0004 ppm | 0.0026 ppm | 0.0414 ppm |
| Concentration per Run 2 | 5.1795 ppm | 0.0004 ppm | 0.1930 ppm | 0.0133 ppm | 0.0002 ppm | 0.0027 ppm | 0.0413 ppm |
| Concentration per Run 3 | 5.1824 ppm | 0.0004 ppm | 0.1855 ppm | 0.0126 ppm | 0.0013 ppm | 0.0026 ppm | 0.0415 ppm |
| Concentration RSD | 0.0 % | 15.0 % | 8.5 % | 5.6 % | 92.4 % | 1.9 % | 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 | 94.8890 % | 102.7721 % | 103.6311 % | 92.7550 % | 94.6393 % | 100.3979 % | 0.0064 ppm |
| Concentration per Run 1 | 91.0384 % | 102.9018 % | 103.5344 % | 84.2629 % | 94.7472 % | 100.1617 % | 0.0069 ppm |
| Concentration per Run 2 | 96.2474 % | 102.7148 % | 103.8951 % | 94.7014 % | 94.6488 % | 100.4273 % | 0.0061 ppm |
| Concentration per Run 3 | 97.3813 % | 102.6997 % | 103.4639 % | 99.3009 % | 94.5218 % | 100.6046 % | 0.0062 ppm |
| Concentration RSD | 3.6 % | 0.1 % | 0.2 % | 8.3 % | 0.1 % | 0.2 % | 7.3 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473062-01 WG2010972
Analysis started at: 12/19/2024 4:52:26 PM
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 | 0.0002 ppm | 0.3041 ppm | 0.0121 ppm | 2.2561 ppm | 6.4277 ppm | 0.0000 ppm | 22.7934 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.3228 ppm | 0.0117 ppm | 2.2591 ppm | 6.7665 ppm | 0.0000 ppm | 23.7969 ppm |
| Concentration per Run 2 | 0.0003 ppm | 0.3034 ppm | 0.0117 ppm | 2.2654 ppm | 6.3496 ppm | 0.0000 ppm | 22.5405 ppm |
| Concentration per Run 3 | 0.0003 ppm | 0.2860 ppm | 0.0128 ppm | 2.2436 ppm | 6.1671 ppm | 0.0000 ppm | 22.0427 ppm |
| Concentration RSD | 67.7 % | 6.1 % | 5.1 % | 0.5 % | 4.8 % | 561.4 % | 4.0 % |

| | 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 | 0.0094 ppm | 0.0144 ppm | 0.0034 ppm | 0.0454 ppm | 166.7185 ppm | 5.5948 ppm | 1.5677 ppm |
| Concentration per Run 1 | 0.0095 ppm | 0.0146 ppm | 0.0034 ppm | 0.0451 ppm | 173.5452 ppm | 5.8030 ppm | 1.5684 ppm |
| Concentration per Run 2 | 0.0094 ppm | 0.0145 ppm | 0.0034 ppm | 0.0457 ppm | 164.7979 ppm | 5.5411 ppm | 1.5691 ppm |
| Concentration per Run 3 | 0.0093 ppm | 0.0142 ppm | 0.0033 ppm | 0.0454 ppm | 161.8125 ppm | 5.4401 ppm | 1.5656 ppm |
| Concentration RSD | 1.2 % | 1.5 % | 2.5 % | 0.7 % | 3.7 % | 3.3 % | 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 | 2.3864 ppm | -0.0015 ppm | 241.4330 ppm | 0.0556 ppm | 18.1691 ppm | 0.0081 ppm | 0.0007 ppm |
| Concentration per Run 1 | 2.4841 ppm | -0.0017 ppm | 253.9871 ppm | 0.0557 ppm | 18.2423 ppm | 0.0076 ppm | -0.0010 ppm |
| Concentration per Run 2 | 2.3630 ppm | -0.0016 ppm | 238.4319 ppm | 0.0559 ppm | 18.1942 ppm | 0.0099 ppm | 0.0001 ppm |
| Concentration per Run 3 | 2.3121 ppm | -0.0013 ppm | 231.8801 ppm | 0.0552 ppm | 18.0708 ppm | 0.0068 ppm | 0.0029 ppm |
| Concentration RSD | 3.7 % | 12.3 % | 4.7 % | 0.6 % | 0.5 % | 19.7 % | 293.7 % |

| | 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 | 1.4028 ppm | 0.0063 ppm | 0.3042 ppm | 0.0056 ppm | -0.0032 ppm | -0.0008 ppm | 6.1194 ppm |
| Concentration per Run 1 | 1.4031 ppm | 0.0063 ppm | 0.3147 ppm | 0.0054 ppm | -0.0030 ppm | -0.0006 ppm | 6.1769 ppm |
| Concentration per Run 2 | 1.4091 ppm | 0.0060 ppm | 0.3006 ppm | 0.0057 ppm | -0.0039 ppm | -0.0008 ppm | 6.0893 ppm |
| Concentration per Run 3 | 1.3960 ppm | 0.0065 ppm | 0.2973 ppm | 0.0057 ppm | -0.0027 ppm | -0.0009 ppm | 6.0918 ppm |
| Concentration RSD | 0.5 % | 4.3 % | 3.0 % | 2.8 % | 19.6 % | 18.5 % | 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 | 96.3564 % | 97.8962 % | 94.6820 % | 108.8214 % | 84.1215 % | 99.0572 % | 0.0366 ppm |
| Concentration per Run 1 | 95.5227 % | 98.3112 % | 95.3250 % | 104.5067 % | 84.1769 % | 99.2041 % | 0.0391 ppm |
| Concentration per Run 2 | 96.7312 % | 97.7910 % | 94.0245 % | 110.2457 % | 83.5868 % | 99.0341 % | 0.0361 ppm |
| Concentration per Run 3 | 96.8154 % | 97.5864 % | 94.6963 % | 111.7118 % | 84.6006 % | 98.9335 % | 0.0348 ppm |
| Concentration RSD | 0.8 % | 0.4 % | 0.7 % | 3.5 % | 0.6 % | 0.1 % | 6.1 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473205-01 WG2010972
Analysis started at: 12/19/2024 4:59:14 PM
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 | -0.0002 ppm | 0.0081 ppm | 0.0021 ppm | 0.0783 ppm | 0.0273 ppm | 0.0000 ppm | 23.7722 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0084 ppm | 0.0013 ppm | 0.0788 ppm | 0.0300 ppm | 0.0000 ppm | 25.9670 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.0104 ppm | 0.0027 ppm | 0.0783 ppm | 0.0264 ppm | 0.0000 ppm | 23.2279 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0056 ppm | 0.0025 ppm | 0.0778 ppm | 0.0255 ppm | -0.0001 ppm | 22.1215 ppm |
| Concentration RSD | 90.5 % | 30.1 % | 34.1 % | 0.7 % | 8.8 % | 166.7 % | 8.3 % |

| | 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 | 0.0004 ppm | 0.0001 ppm | 0.0028 ppm | 0.0088 ppm | 6.9739 ppm | 1.7640 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0005 ppm | 0.0003 ppm | 0.0028 ppm | 0.0108 ppm | 7.6459 ppm | 1.7804 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0002 ppm | 0.0002 ppm | 0.0029 ppm | 0.0092 ppm | 6.7827 ppm | 1.7555 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0004 ppm | -0.0001 ppm | 0.0026 ppm | 0.0066 ppm | 6.4930 ppm | 1.7561 ppm |
| Concentration RSD | 58.1 % | 36.5 % | 142.8 % | 5.9 % | 24.1 % | 8.6 % | 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 | 0.0453 ppm | 0.0010 ppm | 177.1637 ppm | 0.0009 ppm | -0.0008 ppm | -0.0007 ppm | -0.0014 ppm |
| Concentration per Run 1 | 0.0497 ppm | 0.0011 ppm | 194.1974 ppm | 0.0008 ppm | -0.0004 ppm | -0.0015 ppm | -0.0020 ppm |
| Concentration per Run 2 | 0.0442 ppm | 0.0010 ppm | 171.8625 ppm | 0.0008 ppm | -0.0004 ppm | -0.0006 ppm | -0.0022 ppm |
| Concentration per Run 3 | 0.0420 ppm | 0.0009 ppm | 165.4313 ppm | 0.0011 ppm | -0.0015 ppm | -0.0001 ppm | 0.0001 ppm |
| Concentration RSD | 8.8 % | 10.5 % | 8.5 % | 20.7 % | 80.6 % | 103.1 % | 90.0 % |

| | 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 | 3.5282 ppm | 0.0005 ppm | 0.1035 ppm | 0.0001 ppm | 0.0010 ppm | -0.0002 ppm | 0.0112 ppm |
| Concentration per Run 1 | 3.5555 ppm | 0.0004 ppm | 0.1134 ppm | 0.0002 ppm | 0.0001 ppm | -0.0003 ppm | 0.0113 ppm |
| Concentration per Run 2 | 3.5163 ppm | 0.0004 ppm | 0.1003 ppm | -0.0001 ppm | 0.0021 ppm | -0.0002 ppm | 0.0112 ppm |
| Concentration per Run 3 | 3.5128 ppm | 0.0006 ppm | 0.0967 ppm | 0.0003 ppm | 0.0007 ppm | -0.0001 ppm | 0.0112 ppm |
| Concentration RSD | 0.7 % | 29.7 % | 8.5 % | 184.4 % | 100.5 % | 38.5 % | 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 | 95.9240 % | 101.0501 % | 100.4677 % | 94.1016 % | 88.3741 % | 98.7883 % | 0.0004 ppm |
| Concentration per Run 1 | 92.8326 % | 101.5177 % | 100.6965 % | 86.1422 % | 87.8678 % | 98.7967 % | 0.0005 ppm |
| Concentration per Run 2 | 97.5091 % | 100.4502 % | 100.4948 % | 95.8701 % | 88.4816 % | 98.3021 % | -0.0004 ppm |
| Concentration per Run 3 | 97.4301 % | 101.1824 % | 100.2119 % | 100.2926 % | 88.7730 % | 99.2662 % | 0.0011 ppm |
| Concentration RSD | 2.8 % | 0.5 % | 0.2 % | 7.7 % | 0.5 % | 0.5 % | 180.8 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473205-02 WG2010972
Analysis started at: 12/19/2024 5:05:53 PM
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 | 0.0002 ppm | 0.0741 ppm | 0.0025 ppm | 0.0106 ppm | 0.0274 ppm | 0.0000 ppm | 36.1693 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0901 ppm | 0.0035 ppm | 0.0109 ppm | 0.0298 ppm | 0.0000 ppm | 39.7641 ppm |
| Concentration per Run 2 | 0.0006 ppm | 0.0671 ppm | 0.0027 ppm | 0.0109 ppm | 0.0269 ppm | 0.0000 ppm | 35.0694 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0651 ppm | 0.0014 ppm | 0.0101 ppm | 0.0256 ppm | 0.0000 ppm | 33.6744 ppm |
| Concentration RSD | 165.4 % | 18.8 % | 42.3 % | 4.3 % | 7.7 % | 1,165.1 % | 8.8 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0001 ppm | 0.0004 ppm | 0.0003 ppm | 0.0012 ppm | 3.7337 ppm | 4.6247 ppm | 6.8247 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0003 ppm | 0.0006 ppm | 0.0011 ppm | 4.0575 ppm | 5.0340 ppm | 6.9049 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0005 ppm | 0.0002 ppm | 0.0012 ppm | 3.6427 ppm | 4.5298 ppm | 6.8011 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0004 ppm | 0.0000 ppm | 0.0012 ppm | 3.5009 ppm | 4.3103 ppm | 6.7680 ppm |
| Concentration RSD | 14.3 % | 28.4 % | 97.3 % | 6.3 % | 7.7 % | 8.0 % | 1.0 % |

| | 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 | 0.5535 ppm | 0.0000 ppm | 125.0941 ppm | 0.0005 ppm | -0.0013 ppm | -0.0003 ppm | -0.0006 ppm |
| Concentration per Run 1 | 0.6062 ppm | 0.0001 ppm | 135.9225 ppm | 0.0001 ppm | -0.0015 ppm | -0.0011 ppm | -0.0014 ppm |
| Concentration per Run 2 | 0.5374 ppm | 0.0000 ppm | 122.5283 ppm | 0.0010 ppm | -0.0013 ppm | -0.0010 ppm | 0.0003 ppm |
| Concentration per Run 3 | 0.5169 ppm | -0.0001 ppm | 116.8314 ppm | 0.0005 ppm | -0.0010 ppm | 0.0012 ppm | -0.0005 ppm |
| Concentration RSD | 8.4 % | 1,330.0 % | 7.8 % | 89.5 % | 19.7 % | 436.4 % | 149.1 % |

| | 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 | 7.0815 ppm | -0.0003 ppm | 0.2027 ppm | 0.0007 ppm | 0.0008 ppm | 0.0000 ppm | 0.0117 ppm |
| Concentration per Run 1 | 7.0795 ppm | 0.0001 ppm | 0.2203 ppm | 0.0006 ppm | 0.0000 ppm | 0.0001 ppm | 0.0118 ppm |
| Concentration per Run 2 | 7.0843 ppm | -0.0004 ppm | 0.1987 ppm | 0.0006 ppm | 0.0025 ppm | 0.0000 ppm | 0.0117 ppm |
| Concentration per Run 3 | 7.0805 ppm | -0.0005 ppm | 0.1892 ppm | 0.0009 ppm | -0.0001 ppm | -0.0001 ppm | 0.0115 ppm |
| Concentration RSD | 0.0 % | 114.0 % | 7.9 % | 24.4 % | 189.7 % | 3,359.2 % | 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 | 95.3826 % | 101.4951 % | 101.6351 % | 94.8176 % | 91.4482 % | 100.0518 % | 0.0010 ppm |
| Concentration per Run 1 | 92.0214 % | 101.6551 % | 102.1604 % | 86.5053 % | 91.7146 % | 99.7260 % | 0.0001 ppm |
| Concentration per Run 2 | 97.4915 % | 101.0986 % | 101.3722 % | 97.2117 % | 91.3658 % | 99.5559 % | 0.0023 ppm |
| Concentration per Run 3 | 96.6350 % | 101.7315 % | 101.3726 % | 100.7357 % | 91.2643 % | 100.8736 % | 0.0007 ppm |
| Concentration RSD | 3.1 % | 0.3 % | 0.4 % | 7.8 % | 0.3 % | 0.7 % | 109.8 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473205-03 WG2010972
Analysis started at: 12/19/2024 5:12:32 PM
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 | 0.0052 ppm | 0.0558 ppm | 0.0455 ppm | 0.0407 ppm | 0.0000 ppm | 21.4035 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0045 ppm | 0.0567 ppm | 0.0461 ppm | 0.0437 ppm | 0.0000 ppm | 23.1547 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0056 ppm | 0.0575 ppm | 0.0453 ppm | 0.0400 ppm | 0.0001 ppm | 20.9532 ppm |
| Concentration per Run 3 | 0.0003 ppm | 0.0145 ppm | 0.0532 ppm | 0.0451 ppm | 0.0383 ppm | 0.0000 ppm | 20.1027 ppm |
| Concentration RSD | 161.3 % | 181.6 % | 4.2 % | 1.2 % | 6.8 % | 135.4 % | 7.4 % |

| | 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 | 0.0001 ppm | 0.0011 ppm | 0.0002 ppm | 0.0006 ppm | 13.0408 ppm | 5.3112 ppm | 2.1311 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0012 ppm | 0.0003 ppm | 0.0007 ppm | 14.0223 ppm | 5.7185 ppm | 2.1467 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0010 ppm | 0.0001 ppm | 0.0005 ppm | 12.7916 ppm | 5.2103 ppm | 2.1227 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0011 ppm | 0.0003 ppm | 0.0005 ppm | 12.3084 ppm | 5.0048 ppm | 2.1239 ppm |
| Concentration RSD | 11.5 % | 5.4 % | 32.2 % | 15.1 % | 6.8 % | 6.9 % | 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 | 1.8697 ppm | 0.0005 ppm | 95.8867 ppm | 0.0006 ppm | -0.0021 ppm | 0.0010 ppm | 0.0003 ppm |
| Concentration per Run 1 | 2.0216 ppm | 0.0005 ppm | 102.9412 ppm | 0.0006 ppm | -0.0025 ppm | 0.0020 ppm | 0.0009 ppm |
| Concentration per Run 2 | 1.8273 ppm | 0.0005 ppm | 94.1605 ppm | 0.0007 ppm | -0.0019 ppm | 0.0005 ppm | 0.0007 ppm |
| Concentration per Run 3 | 1.7600 ppm | 0.0004 ppm | 90.5585 ppm | 0.0005 ppm | -0.0018 ppm | 0.0005 ppm | -0.0007 ppm |
| Concentration RSD | 7.3 % | 9.9 % | 6.6 % | 20.4 % | 18.5 % | 86.0 % | 285.5 % |

| | 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 | 8.7857 ppm | 0.0003 ppm | 0.0999 ppm | 0.0004 ppm | 0.0008 ppm | -0.0010 ppm | 0.0114 ppm |
| Concentration per Run 1 | 8.8260 ppm | 0.0005 ppm | 0.1073 ppm | 0.0002 ppm | 0.0005 ppm | -0.0011 ppm | 0.0116 ppm |
| Concentration per Run 2 | 8.7829 ppm | 0.0003 ppm | 0.0980 ppm | 0.0004 ppm | 0.0026 ppm | -0.0011 ppm | 0.0114 ppm |
| Concentration per Run 3 | 8.7480 ppm | 0.0001 ppm | 0.0944 ppm | 0.0004 ppm | -0.0008 ppm | -0.0007 ppm | 0.0113 ppm |
| Concentration RSD | 0.4 % | 78.7 % | 6.7 % | 27.2 % | 227.4 % | 19.2 % | 1.3 % |

| | 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 | 95.3839 % | 102.0841 % | 102.7124 % | 96.4279 % | 93.0729 % | 101.1423 % | 0.0021 ppm |
| Concentration per Run 1 | 93.0812 % | 102.0127 % | 102.9140 % | 89.2671 % | 92.8071 % | 100.8048 % | 0.0023 ppm |
| Concentration per Run 2 | 96.6185 % | 102.1829 % | 102.7692 % | 98.0926 % | 93.0128 % | 101.2373 % | 0.0022 ppm |
| Concentration per Run 3 | 96.4520 % | 102.0566 % | 102.4539 % | 101.9239 % | 93.3989 % | 101.3848 % | 0.0019 ppm |
| Concentration RSD | 2.1 % | 0.1 % | 0.2 % | 6.7 % | 0.3 % | 0.3 % | 11.4 % |

# ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2473205-04 WG2010972
Analysis started at: 12/19/2024 5:19:11 PM
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 | 0.0001 ppm | 0.0269 ppm | 0.0568 ppm | 0.0363 ppm | 0.0754 ppm | 0.0000 ppm | 18.5883 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0329 ppm | 0.0554 ppm | 0.0365 ppm | 0.0819 ppm | 0.0000 ppm | 20.1684 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0288 ppm | 0.0586 ppm | 0.0361 ppm | 0.0734 ppm | 0.0000 ppm | 18.2280 ppm |
| Concentration per Run 3 | 0.0004 ppm | 0.0190 ppm | 0.0566 ppm | 0.0363 ppm | 0.0710 ppm | 0.0000 ppm | 17.3684 ppm |
| Concentration RSD | 163.5 % | 26.6 % | 2.9 % | 0.6 % | 7.6 % | 161.5 % | 7.7 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0001 ppm | 0.0001 ppm | 0.0003 ppm | 0.0006 ppm | 19.5984 ppm | 6.0482 ppm | 2.0392 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0000 ppm | 0.0004 ppm | 0.0005 ppm | 21.2456 ppm | 6.5822 ppm | 2.0424 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.0002 ppm | 0.0001 ppm | 0.0006 ppm | 19.1819 ppm | 5.8833 ppm | 2.0368 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0002 ppm | 0.0003 ppm | 0.0007 ppm | 18.3675 ppm | 5.6791 ppm | 2.0384 ppm |
| Concentration RSD | 12.5 % | 91.5 % | 50.4 % | 14.5 % | 7.6 % | 7.8 % | 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 | 1.1513 ppm | 0.0000 ppm | 130.5665 ppm | -0.0002 ppm | -0.0016 ppm | -0.0005 ppm | 0.0007 ppm |
| Concentration per Run 1 | 1.2537 ppm | 0.0001 ppm | 141.8108 ppm | -0.0001 ppm | -0.0015 ppm | -0.0005 ppm | 0.0003 ppm |
| Concentration per Run 2 | 1.1230 ppm | 0.0002 ppm | 127.2747 ppm | 0.0000 ppm | -0.0013 ppm | -0.0010 ppm | -0.0002 ppm |
| Concentration per Run 3 | 1.0773 ppm | -0.0002 ppm | 122.6139 ppm | -0.0005 ppm | -0.0019 ppm | 0.0000 ppm | 0.0019 ppm |
| Concentration RSD | 8.0 % | 538.0 % | 7.7 % | 143.0 % | 16.6 % | 98.3 % | 158.8 % |

| | 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 | 7.6503 ppm | 0.0003 ppm | 0.0966 ppm | 0.0008 ppm | 0.0013 ppm | -0.0002 ppm | 0.0144 ppm |
| Concentration per Run 1 | 7.6550 ppm | 0.0005 ppm | 0.1050 ppm | 0.0007 ppm | 0.0020 ppm | -0.0003 ppm | 0.0144 ppm |
| Concentration per Run 2 | 7.6422 ppm | 0.0002 ppm | 0.0940 ppm | 0.0011 ppm | 0.0015 ppm | -0.0001 ppm | 0.0144 ppm |
| Concentration per Run 3 | 7.6536 ppm | 0.0001 ppm | 0.0908 ppm | 0.0007 ppm | 0.0004 ppm | -0.0003 ppm | 0.0143 ppm |
| Concentration RSD | 0.1 % | 68.3 % | 7.7 % | 27.6 % | 61.6 % | 42.5 % | 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 | 95.6015 % | 102.1326 % | 102.0312 % | 97.6190 % | 91.4769 % | 101.2308 % | 0.0020 ppm |
| Concentration per Run 1 | 92.2563 % | 102.6961 % | 101.8772 % | 89.7033 % | 91.3155 % | 101.6060 % | 0.0017 ppm |
| Concentration per Run 2 | 97.5096 % | 102.2127 % | 102.3487 % | 99.7433 % | 91.6844 % | 101.3450 % | 0.0029 ppm |
| Concentration per Run 3 | 97.0386 % | 101.4891 % | 101.8676 % | 103.4103 % | 91.4308 % | 100.7414 % | 0.0014 ppm |
| Concentration RSD | 3.0 % | 0.6 % | 0.3 % | 7.3 % | 0.2 % | 0.4 % | 39.6 % |

# ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2473251-01 WG2010972
Analysis started at: 12/19/2024 5:26:11 PM
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 | 0.0004 ppm | 0.7089 ppm | 0.0019 ppm | 0.0430 ppm | 0.1949 ppm | 0.0005 ppm | 5.3772 ppm |
| Concentration per Run 1 | 0.0003 ppm | 0.7636 ppm | 0.0019 ppm | 0.0431 ppm | 0.2081 ppm | 0.0005 ppm | 5.7434 ppm |
| Concentration per Run 2 | 0.0003 ppm | 0.6923 ppm | 0.0028 ppm | 0.0424 ppm | 0.1913 ppm | 0.0006 ppm | 5.2864 ppm |
| Concentration per Run 3 | 0.0004 ppm | 0.6709 ppm | 0.0009 ppm | 0.0435 ppm | 0.1852 ppm | 0.0006 ppm | 5.1019 ppm |
| Concentration RSD | 11.5 % | 6.9 % | 51.5 % | 1.3 % | 6.1 % | 4.7 % | 6.1 % |

| | 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 | 0.0007 ppm | 0.0183 ppm | 0.0016 ppm | 0.0142 ppm | 58.6692 ppm | 1.5803 ppm | 7.6978 ppm |
| Concentration per Run 1 | 0.0007 ppm | 0.0181 ppm | 0.0013 ppm | 0.0141 ppm | 62.7031 ppm | 1.6836 ppm | 7.7295 ppm |
| Concentration per Run 2 | 0.0007 ppm | 0.0183 ppm | 0.0019 ppm | 0.0139 ppm | 57.5518 ppm | 1.5599 ppm | 7.6857 ppm |
| Concentration per Run 3 | 0.0008 ppm | 0.0184 ppm | 0.0015 ppm | 0.0145 ppm | 55.7528 ppm | 1.4975 ppm | 7.6782 ppm |
| Concentration RSD | 3.2 % | 0.9 % | 19.6 % | 2.2 % | 6.1 % | 6.0 % | 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 | 1.6662 ppm | 0.0021 ppm | 56.9998 ppm | 0.0218 ppm | 0.0015 ppm | 0.0018 ppm | 0.0020 ppm |
| Concentration per Run 1 | 1.7829 ppm | 0.0021 ppm | 60.8570 ppm | 0.0215 ppm | 0.0017 ppm | 0.0038 ppm | 0.0013 ppm |
| Concentration per Run 2 | 1.6328 ppm | 0.0021 ppm | 55.8900 ppm | 0.0219 ppm | 0.0013 ppm | 0.0006 ppm | 0.0026 ppm |
| Concentration per Run 3 | 1.5830 ppm | 0.0020 ppm | 54.2522 ppm | 0.0221 ppm | 0.0013 ppm | 0.0012 ppm | 0.0022 ppm |
| Concentration RSD | 6.2 % | 1.9 % | 6.0 % | 1.4 % | 16.6 % | 93.3 % | 32.2 % |

| | 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 | 6.4621 ppm | 0.0013 ppm | 0.0573 ppm | 0.0168 ppm | 0.0007 ppm | 0.0006 ppm | 0.1193 ppm |
| Concentration per Run 1 | 6.4128 ppm | 0.0013 ppm | 0.0611 ppm | 0.0171 ppm | 0.0000 ppm | 0.0006 ppm | 0.1185 ppm |
| Concentration per Run 2 | 6.4524 ppm | 0.0008 ppm | 0.0561 ppm | 0.0169 ppm | 0.0016 ppm | 0.0007 ppm | 0.1185 ppm |
| Concentration per Run 3 | 6.5211 ppm | 0.0018 ppm | 0.0546 ppm | 0.0164 ppm | 0.0006 ppm | 0.0005 ppm | 0.1210 ppm |
| Concentration RSD | 0.8 % | 35.8 % | 6.0 % | 2.1 % | 103.8 % | 13.3 % | 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 | 96.0647 % | 104.2924 % | 103.2364 % | 102.5015 % | 93.3412 % | 103.8708 % | 0.0342 ppm |
| Concentration per Run 1 | 93.6233 % | 104.5163 % | 103.2085 % | 96.2802 % | 94.0171 % | 103.8406 % | 0.0373 ppm |
| Concentration per Run 2 | 97.2834 % | 104.6333 % | 102.8283 % | 104.0592 % | 93.3211 % | 104.3470 % | 0.0330 ppm |
| Concentration per Run 3 | 97.2873 % | 103.7275 % | 103.6724 % | 107.1652 % | 92.6855 % | 103.4249 % | 0.0324 ppm |
| Concentration RSD | 2.2 % | 0.5 % | 0.4 % | 5.5 % | 0.7 % | 0.4 % | 7.7 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473251-02 WG2010972
Analysis started at: 12/19/2024 5:32:51 PM
Rack: 1
Vial: 38

| | Ag 328.068 {103} (Axial) | Al 396.152 {85} (Radial) | As 189.042 {478} (Axial) | B 208.959 {461} (Axial) | Ba 455.403 {74} (Radial) | Be 313.042 {108} (Radial) | Ca 315.887 {107} (Radial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0002 ppm | 0.1873 ppm | 0.0017 ppm | 0.0307 ppm | 0.0933 ppm | 0.0001 ppm | 8.2531 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.2096 ppm | 0.0005 ppm | 0.0310 ppm | 0.1018 ppm | 0.0000 ppm | 9.0100 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.1769 ppm | 0.0008 ppm | 0.0305 ppm | 0.0910 ppm | 0.0001 ppm | 8.0363 ppm |
| Concentration per Run 3 | 0.0004 ppm | 0.1752 ppm | 0.0039 ppm | 0.0304 ppm | 0.0871 ppm | 0.0000 ppm | 7.7129 ppm |
| Concentration RSD | 52.4 % | 10.4 % | 109.0 % | 1.0 % | 8.1 % | 38.2 % | 8.2 % |

| | 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 | 0.0067 ppm | 0.0006 ppm | 0.0095 ppm | 7.3018 ppm | 2.9299 ppm | 3.5208 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0067 ppm | 0.0009 ppm | 0.0096 ppm | 7.9361 ppm | 3.1836 ppm | 3.5422 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.0068 ppm | 0.0002 ppm | 0.0094 ppm | 7.1110 ppm | 2.8961 ppm | 3.5154 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0067 ppm | 0.0006 ppm | 0.0093 ppm | 6.8584 ppm | 2.7101 ppm | 3.5048 ppm |
| Concentration RSD | 18.1 % | 0.4 % | 61.5 % | 1.8 % | 7.7 % | 8.1 % | 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 | 0.2907 ppm | 0.0008 ppm | 28.5564 ppm | 0.0094 ppm | 0.0004 ppm | -0.0006 ppm | 0.0013 ppm |
| Concentration per Run 1 | 0.3172 ppm | 0.0009 ppm | 31.0620 ppm | 0.0093 ppm | 0.0004 ppm | -0.0007 ppm | 0.0019 ppm |
| Concentration per Run 2 | 0.2843 ppm | 0.0009 ppm | 28.0428 ppm | 0.0094 ppm | 0.0008 ppm | -0.0007 ppm | 0.0016 ppm |
| Concentration per Run 3 | 0.2708 ppm | 0.0007 ppm | 26.5645 ppm | 0.0094 ppm | 0.0001 ppm | -0.0004 ppm | 0.0004 ppm |
| Concentration RSD | 8.2 % | 13.3 % | 8.0 % | 0.8 % | 87.3 % | 32.5 % | 63.2 % |

| | 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 | 2.7948 ppm | 0.0003 ppm | 0.0779 ppm | 0.0041 ppm | 0.0013 ppm | 0.0008 ppm | 0.0837 ppm |
| Concentration per Run 1 | 2.8087 ppm | 0.0002 ppm | 0.0849 ppm | 0.0039 ppm | 0.0020 ppm | 0.0009 ppm | 0.0840 ppm |
| Concentration per Run 2 | 2.7977 ppm | 0.0004 ppm | 0.0761 ppm | 0.0040 ppm | 0.0021 ppm | 0.0008 ppm | 0.0835 ppm |
| Concentration per Run 3 | 2.7779 ppm | 0.0004 ppm | 0.0726 ppm | 0.0043 ppm | -0.0001 ppm | 0.0009 ppm | 0.0836 ppm |
| Concentration RSD | 0.6 % | 27.9 % | 8.2 % | 5.3 % | 90.6 % | 7.3 % | 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 | 96.0132 % | 105.3750 % | 104.2793 % | 95.3934 % | 96.8328 % | 103.5506 % | 0.0069 ppm |
| Concentration per Run 1 | 92.4367 % | 104.8599 % | 104.1691 % | 87.1757 % | 96.4906 % | 102.7414 % | 0.0074 ppm |
| Concentration per Run 2 | 97.9178 % | 105.4265 % | 104.0584 % | 97.4521 % | 96.6059 % | 103.6860 % | 0.0066 ppm |
| Concentration per Run 3 | 97.6851 % | 105.8387 % | 104.6103 % | 101.5523 % | 97.4017 % | 104.2244 % | 0.0066 ppm |
| Concentration RSD | 3.2 % | 0.5 % | 0.3 % | 7.8 % | 0.5 % | 0.7 % | 6.3 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 5:40:06 PM
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 | 0.4703 ppm | 0.4898 ppm | 0.4674 ppm | 0.4962 ppm | 0.4855 ppm | 0.4834 ppm | 0.4962 ppm |
| Concentration per Run 1 | 0.4702 ppm | 0.5065 ppm | 0.4669 ppm | 0.4962 ppm | 0.5014 ppm | 0.5016 ppm | 0.5202 ppm |
| Concentration per Run 2 | 0.4709 ppm | 0.4848 ppm | 0.4672 ppm | 0.4953 ppm | 0.4794 ppm | 0.4763 ppm | 0.4924 ppm |
| Concentration per Run 3 | 0.4699 ppm | 0.4779 ppm | 0.4680 ppm | 0.4970 ppm | 0.4758 ppm | 0.4724 ppm | 0.4758 ppm |
| Recovery Percentage 1 | 94.068 % | 97.953 % | 93.478 % | 99.239 % | 97.107 % | 96.688 % | 99.233 % |
| Concentration RSD | 0.1 % | 3.0 % | 0.1 % | 0.2 % | 2.9 % | 3.3 % | 4.5 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.4760 ppm | 0.5127 ppm | 0.4648 ppm | 0.4714 ppm | 0.4684 ppm | 5.0802 ppm | 0.4861 ppm |
| Concentration per Run 1 | 0.4778 ppm | 0.5142 ppm | 0.4645 ppm | 0.4705 ppm | 0.4844 ppm | 5.2453 ppm | 0.4858 ppm |
| Concentration per Run 2 | 0.4760 ppm | 0.5121 ppm | 0.4666 ppm | 0.4712 ppm | 0.4637 ppm | 5.0396 ppm | 0.4825 ppm |
| Concentration per Run 3 | 0.4743 ppm | 0.5117 ppm | 0.4632 ppm | 0.4723 ppm | 0.4570 ppm | 4.9558 ppm | 0.4898 ppm |
| Recovery Percentage 1 | 95.207 % | 102.537 % | 92.952 % | 94.272 % | 93.672 % | 101.604 % | 97.211 % |
| Concentration RSD | 0.4 % | 0.3 % | 0.4 % | 0.2 % | 3.1 % | 2.9 % | 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 | 0.4599 ppm | 0.4922 ppm | 10.3587 ppm | 0.4955 ppm | 0.5077 ppm | 0.5171 ppm | 0.5056 ppm |
| Concentration per Run 1 | 0.4763 ppm | 0.4920 ppm | 10.6951 ppm | 0.4980 ppm | 0.5093 ppm | 0.5178 ppm | 0.5031 ppm |
| Concentration per Run 2 | 0.4532 ppm | 0.4910 ppm | 10.2246 ppm | 0.4938 ppm | 0.5068 ppm | 0.5151 ppm | 0.5054 ppm |
| Concentration per Run 3 | 0.4502 ppm | 0.4937 ppm | 10.1564 ppm | 0.4948 ppm | 0.5070 ppm | 0.5183 ppm | 0.5081 ppm |
| Recovery Percentage 1 | 91.982 % | 98.447 % | 103.587 % | 99.104 % | 101.540 % | 103.411 % | 101.111 % |
| Concentration RSD | 3.1 % | 0.3 % | 2.8 % | 0.4 % | 0.3 % | 0.3 % | 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 | 5.7429 ppm | 0.4849 ppm | 0.5017 ppm | 0.4961 ppm | 0.5007 ppm | 0.4712 ppm | 0.5036 ppm |
| Concentration per Run 1 | 5.7550 ppm | 0.4860 ppm | 0.5184 ppm | 0.4960 ppm | 0.5019 ppm | 0.4713 ppm | 0.5052 ppm |
| Concentration per Run 2 | 5.7264 ppm | 0.4825 ppm | 0.4951 ppm | 0.4964 ppm | 0.5002 ppm | 0.4723 ppm | 0.5035 ppm |
| Concentration per Run 3 | 5.7473 ppm | 0.4861 ppm | 0.4916 ppm | 0.4959 ppm | 0.4998 ppm | 0.4701 ppm | 0.5021 ppm |
| Recovery Percentage 1 | 109.388 % | 96.973 % | 100.340 % | 99.216 % | 100.131 % | 94.247 % | 100.714 % |
| Concentration RSD | 0.3 % | 0.4 % | 2.9 % | 0.1 % | 0.2 % | 0.2 % | 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 | 95.5318 % | 105.3717 % | 106.1259 % | 108.1773 % | 98.0242 % | 106.1613 % | 0.5071 ppm |
| Concentration per Run 1 | 93.7813 % | 105.6264 % | 106.2944 % | 104.4957 % | 98.0200 % | 106.4240 % | 0.5231 ppm |
| Concentration per Run 2 | 95.8231 % | 105.2429 % | 106.1269 % | 109.0503 % | 98.1363 % | 106.1036 % | 0.5012 ppm |
| Concentration per Run 3 | 96.9909 % | 105.2459 % | 105.9565 % | 110.9860 % | 97.9164 % | 105.9563 % | 0.4971 ppm |
| Recovery Percentage 1 | | | | | | | 101.426 % |
| Concentration RSD | 1.7 % | 0.2 % | 0.2 % | 3.1 % | 0.1 % | 0.2 % | 2.8 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/19/2024 5:46:59 PM
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 | -0.0017 ppm | 0.0012 ppm | 0.0014 ppm | 0.0000 ppm | 0.0000 ppm | 0.0521 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0041 ppm | 0.0013 ppm | 0.0014 ppm | 0.0001 ppm | 0.0000 ppm | 0.0586 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0027 ppm | 0.0012 ppm | 0.0012 ppm | -0.0001 ppm | 0.0000 ppm | 0.0462 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0017 ppm | 0.0009 ppm | 0.0016 ppm | 0.0000 ppm | 0.0000 ppm | 0.0516 ppm |
| Recovery Percentage 1 | -0.026 % | -1.719 % | 23.145 % | 4.715 % | -0.241 % | 0.138 % | 52.127 % |
| Concentration RSD | 8,199.9 % | 176.0 % | 17.1 % | 14.0 % | 318.0 % | 218.3 % | 11.9 % |

| | 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 | -0.0001 ppm | 0.0001 ppm | -0.0016 ppm | 0.0105 ppm | -0.0010 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0001 ppm | -0.0010 ppm | 0.0179 ppm | -0.0005 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | -0.0002 ppm | -0.0001 ppm | -0.0026 ppm | 0.0016 ppm | -0.0001 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0000 ppm | -0.0002 ppm | 0.0001 ppm | -0.0013 ppm | 0.0121 ppm | -0.0023 ppm |
| Recovery Percentage 1 | 0.502 % | 0.179 % | -1.377 % | 0.654 % | -3.285 % | 0.421 % | -0.984 % |
| Concentration RSD | 166.7 % | 45.5 % | 78.9 % | 169.1 % | 49.0 % | 78.7 % | 122.0 % |

| | 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 | -0.0002 ppm | 0.0007 ppm | 0.0092 ppm | 0.0001 ppm | -0.0002 ppm | 0.0019 ppm | -0.0001 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0009 ppm | 0.0036 ppm | 0.0002 ppm | 0.0000 ppm | 0.0024 ppm | 0.0002 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0008 ppm | 0.0110 ppm | -0.0001 ppm | -0.0006 ppm | 0.0007 ppm | -0.0023 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0006 ppm | 0.0131 ppm | 0.0002 ppm | 0.0000 ppm | 0.0025 ppm | 0.0018 ppm |
| Recovery Percentage 1 | -1.534 % | 1.496 % | 0.461 % | 0.449 % | -1.809 % | 3.710 % | -0.764 % |
| Concentration RSD | 116.6 % | 17.9 % | 54.3 % | 129.6 % | 182.4 % | 52.4 % | 2,662.4 % |

| | 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 | 0.0021 ppm | 0.0005 ppm | 0.0000 ppm | 0.0001 ppm | 0.0006 ppm | 0.0000 ppm | -0.0011 ppm |
| Concentration per Run 1 | 0.0020 ppm | 0.0002 ppm | 0.0000 ppm | 0.0002 ppm | -0.0009 ppm | 0.0000 ppm | -0.0011 ppm |
| Concentration per Run 2 | 0.0019 ppm | 0.0009 ppm | 0.0000 ppm | -0.0002 ppm | 0.0012 ppm | 0.0000 ppm | -0.0010 ppm |
| Concentration per Run 3 | 0.0024 ppm | 0.0003 ppm | 0.0001 ppm | 0.0003 ppm | 0.0015 ppm | -0.0001 ppm | -0.0011 ppm |
| Recovery Percentage 1 | 0.418 % | 0.943 % | 0.333 % | 0.722 % | 3.006 % | -0.403 % | -21.687 % |
| Concentration RSD | 13.0 % | 80.6 % | 147.1 % | 347.2 % | 215.6 % | 152.9 % | 2.9 % |

| | 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 | 95.2730 % | 105.9539 % | 107.7043 % | 101.7496 % | 100.6095 % | 105.2179 % | 0.0007 ppm |
| Concentration per Run 1 | 93.2402 % | 106.0424 % | 107.6969 % | 95.0497 % | 100.4815 % | 105.1232 % | 0.0004 ppm |
| Concentration per Run 2 | 96.1523 % | 106.2519 % | 107.6734 % | 103.4078 % | 100.7056 % | 105.5192 % | 0.0009 ppm |
| Concentration per Run 3 | 96.4266 % | 105.5673 % | 107.7424 % | 106.7913 % | 100.6412 % | 105.0111 % | 0.0007 ppm |
| Recovery Percentage 1 | | | | | | | 6.879 % |
| Concentration RSD | 1.9 % | 0.3 % | 0.0 % | 5.9 % | 0.1 % | 0.3 % | 36.5 % |

# ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010950-1 WG2010950
Analysis started at: 12/19/2024 6:06:40 PM
Rack: 1
Vial: 41

| | Ag 328.068 {103} (Axial) | Al 396.152 {85} (Radial) | As 189.042 {478} (Axial) | B 208.959 {461} (Axial) | Ba 455.403 {74} (Radial) | Be 313.042 {108} (Radial) | Ca 315.887 {107} (Radial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0001 ppm | 0.0032 ppm | 0.0011 ppm | 0.0006 ppm | 0.0001 ppm | 0.0000 ppm | 0.0112 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0002 ppm | 0.0012 ppm | 0.0004 ppm | 0.0001 ppm | 0.0000 ppm | 0.0170 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.0058 ppm | 0.0011 ppm | 0.0005 ppm | 0.0000 ppm | 0.0000 ppm | 0.0152 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0036 ppm | 0.0009 ppm | 0.0008 ppm | 0.0000 ppm | 0.0000 ppm | 0.0015 ppm |
| Recovery Percentage 1 | 1.057 % | 3.213 % | 21.075 % | 1.859 % | 0.694 % | -0.683 % | 11.250 % |
| Concentration RSD | 298.2 % | 88.1 % | 10.5 % | 32.1 % | 61.0 % | 18.4 % | 75.3 % |

| | 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 | 0.0001 ppm | 0.0000 ppm | 0.0005 ppm | -0.0004 ppm | 0.0089 ppm | 0.0016 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0001 ppm | -0.0002 ppm | 0.0006 ppm | -0.0015 ppm | -0.0037 ppm | 0.0031 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0002 ppm | 0.0003 ppm | 0.0005 ppm | -0.0006 ppm | 0.0265 ppm | -0.0004 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0001 ppm | -0.0001 ppm | 0.0004 ppm | 0.0010 ppm | 0.0039 ppm | 0.0021 ppm |
| Recovery Percentage 1 | 1.184 % | 0.629 % | 0.132 % | 4.948 % | -0.743 % | 0.356 % | 1.588 % |
| Concentration RSD | 21.0 % | 51.3 % | 1,748.6 % | 21.4 % | 335.7 % | 175.8 % | 113.0 % |

| | 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 | -0.0001 ppm | -0.0001 ppm | 0.0035 ppm | 0.0002 ppm | 0.0005 ppm | -0.0004 ppm | 0.0014 ppm |
| Concentration per Run 1 | 0.0002 ppm | -0.0002 ppm | 0.0024 ppm | 0.0003 ppm | 0.0004 ppm | 0.0000 ppm | 0.0019 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0001 ppm | 0.0040 ppm | 0.0001 ppm | 0.0012 ppm | -0.0004 ppm | -0.0001 ppm |
| Concentration per Run 3 | -0.0004 ppm | -0.0001 ppm | 0.0039 ppm | 0.0001 ppm | -0.0002 ppm | -0.0008 ppm | 0.0024 ppm |
| Recovery Percentage 1 | -0.857 % | -0.139 % | 0.173 % | 0.750 % | 4.757 % | -0.821 % | 14.043 % |
| Concentration RSD | 378.4 % | 194.8 % | 25.5 % | 72.0 % | 156.1 % | 87.2 % | 92.2 % |

| | 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 | 0.0055 ppm | 0.0000 ppm | 0.0000 ppm | 0.0001 ppm | 0.0021 ppm | -0.0001 ppm | -0.0009 ppm |
| Concentration per Run 1 | 0.0058 ppm | -0.0002 ppm | 0.0000 ppm | 0.0002 ppm | 0.0021 ppm | -0.0002 ppm | -0.0009 ppm |
| Concentration per Run 2 | 0.0049 ppm | 0.0004 ppm | 0.0001 ppm | 0.0000 ppm | 0.0017 ppm | -0.0001 ppm | -0.0008 ppm |
| Concentration per Run 3 | 0.0057 ppm | -0.0001 ppm | 0.0000 ppm | -0.0001 ppm | 0.0026 ppm | -0.0001 ppm | -0.0010 ppm |
| Recovery Percentage 1 | 1.091 % | 0.059 % | 0.322 % | 0.535 % | 10.545 % | -1.480 % | -18.030 % |
| Concentration RSD | 9.1 % | 1,127.8 % | 195.9 % | 306.8 % | 20.8 % | 44.1 % | 7.0 % |

| | 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 | 96.2926 % | 108.1170 % | 110.3341 % | 93.6185 % | 103.4408 % | 103.8791 % | 0.0004 ppm |
| Concentration per Run 1 | 94.6133 % | 108.0421 % | 110.3403 % | 86.5746 % | 103.5631 % | 103.1431 % | 0.0004 ppm |
| Concentration per Run 2 | 97.0569 % | 107.9872 % | 111.0631 % | 95.0375 % | 103.6184 % | 103.8249 % | 0.0008 ppm |
| Concentration per Run 3 | 97.2074 % | 108.3217 % | 109.5990 % | 99.2433 % | 103.1408 % | 104.6694 % | -0.0001 ppm |
| Recovery Percentage 1 | | | | | | | 3.556 % |
| Concentration RSD | 1.5 % | 0.2 % | 0.7 % | 6.9 % | 0.3 % | 0.7 % | 117.8 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010950-2 WG2010950
Analysis started at: 12/19/2024 6:13:27 PM
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 | 0.0521 ppm | 2.3459 ppm | 0.1231 ppm | 1.0121 ppm | 2.2194 ppm | 0.0544 ppm | 11.0318 ppm |
| Concentration per Run 1 | 0.0524 ppm | 2.4884 ppm | 0.1259 ppm | 1.0198 ppm | 2.3536 ppm | 0.0578 ppm | 11.7552 ppm |
| Concentration per Run 2 | 0.0522 ppm | 2.3068 ppm | 0.1223 ppm | 1.0103 ppm | 2.1863 ppm | 0.0534 ppm | 10.8151 ppm |
| Concentration per Run 3 | 0.0517 ppm | 2.2426 ppm | 0.1210 ppm | 1.0061 ppm | 2.1183 ppm | 0.0522 ppm | 10.5250 ppm |
| Concentration RSD | 0.7 % | 5.4 % | 2.1 % | 0.7 % | 5.5 % | 5.5 % | 5.8 % |

| | 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 | 0.0552 ppm | 0.5481 ppm | 0.1992 ppm | 0.2620 ppm | 1.0415 ppm | 11.1449 ppm | 10.1804 ppm |
| Concentration per Run 1 | 0.0554 ppm | 0.5516 ppm | 0.2002 ppm | 0.2619 ppm | 1.1005 ppm | 11.8007 ppm | 10.2053 ppm |
| Concentration per Run 2 | 0.0551 ppm | 0.5470 ppm | 0.1982 ppm | 0.2631 ppm | 1.0309 ppm | 11.0192 ppm | 10.1649 ppm |
| Concentration per Run 3 | 0.0550 ppm | 0.5457 ppm | 0.1992 ppm | 0.2611 ppm | 0.9930 ppm | 10.6146 ppm | 10.1711 ppm |
| Concentration RSD | 0.4 % | 0.6 % | 0.5 % | 0.4 % | 5.2 % | 5.4 % | 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 | 0.5230 ppm | 1.0114 ppm | 11.7703 ppm | 0.5154 ppm | 0.5818 ppm | 0.5417 ppm | 0.1314 ppm |
| Concentration per Run 1 | 0.5573 ppm | 1.0107 ppm | 12.4655 ppm | 0.5178 ppm | 0.5851 ppm | 0.5431 ppm | 0.1321 ppm |
| Concentration per Run 2 | 0.5141 ppm | 1.0099 ppm | 11.5837 ppm | 0.5141 ppm | 0.5799 ppm | 0.5401 ppm | 0.1313 ppm |
| Concentration per Run 3 | 0.4977 ppm | 1.0135 ppm | 11.2618 ppm | 0.5143 ppm | 0.5804 ppm | 0.5419 ppm | 0.1307 ppm |
| Concentration RSD | 5.9 % | 0.2 % | 5.3 % | 0.4 % | 0.5 % | 0.3 % | 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 | 1.0209 ppm | 0.9794 ppm | 1.0544 ppm | 1.0412 ppm | 0.1284 ppm | 0.5079 ppm | 0.5319 ppm |
| Concentration per Run 1 | 1.0282 ppm | 0.9838 ppm | 1.1186 ppm | 1.0452 ppm | 0.1285 ppm | 0.5104 ppm | 0.5335 ppm |
| Concentration per Run 2 | 1.0187 ppm | 0.9786 ppm | 1.0385 ppm | 1.0395 ppm | 0.1290 ppm | 0.5059 ppm | 0.5322 ppm |
| Concentration per Run 3 | 1.0158 ppm | 0.9759 ppm | 1.0062 ppm | 1.0389 ppm | 0.1278 ppm | 0.5072 ppm | 0.5299 ppm |
| Concentration RSD | 0.6 % | 0.4 % | 5.5 % | 0.3 % | 0.5 % | 0.5 % | 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 | 95.5329 % | 105.0897 % | 105.9440 % | 102.8507 % | 96.0089 % | 104.6567 % | 0.0003 ppm |
| Concentration per Run 1 | 94.0225 % | 104.9401 % | 105.2609 % | 96.7911 % | 95.0210 % | 104.3447 % | 0.0003 ppm |
| Concentration per Run 2 | 96.4184 % | 105.2267 % | 106.1082 % | 104.4677 % | 96.2159 % | 104.8732 % | 0.0013 ppm |
| Concentration per Run 3 | 96.1577 % | 105.1022 % | 106.4629 % | 107.2934 % | 96.7898 % | 104.7523 % | -0.0008 ppm |
| Concentration RSD | 1.4 % | 0.1 % | 0.6 % | 5.3 % | 0.9 % | 0.3 % | 404.1 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473067-01 WG2010950
Analysis started at: 12/19/2024 6:19:51 PM
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 | 0.0001 ppm | 0.0014 ppm | 0.0010 ppm | 0.0877 ppm | 0.1200 ppm | 0.0000 ppm | 58.7657 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0053 ppm | 0.0007 ppm | 0.0887 ppm | 0.1325 ppm | 0.0000 ppm | 65.3202 ppm |
| Concentration per Run 2 | 0.0003 ppm | -0.0045 ppm | 0.0023 ppm | 0.0875 ppm | 0.1166 ppm | 0.0000 ppm | 56.9440 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0033 ppm | 0.0001 ppm | 0.0869 ppm | 0.1110 ppm | 0.0000 ppm | 54.0330 ppm |
| Concentration RSD | 157.3 % | 378.9 % | 106.2 % | 1.1 % | 9.3 % | 42.4 % | 10.0 % |

| | 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 | -0.0001 ppm | 0.0003 ppm | 0.1454 ppm | 0.0682 ppm | 3.8488 ppm | 23.9929 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0003 ppm | 0.0002 ppm | 0.1459 ppm | 0.0755 ppm | 4.2603 ppm | 24.1289 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | 0.0006 ppm | 0.1458 ppm | 0.0667 ppm | 3.7327 ppm | 23.9651 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0001 ppm | 0.0001 ppm | 0.1443 ppm | 0.0625 ppm | 3.5533 ppm | 23.8846 ppm |
| Concentration RSD | 72.0 % | 135.1 % | 82.6 % | 0.6 % | 9.7 % | 9.5 % | 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 | 0.0151 ppm | 0.0051 ppm | 68.6755 ppm | 0.0006 ppm | -0.0010 ppm | 0.0015 ppm | -0.0011 ppm |
| Concentration per Run 1 | 0.0164 ppm | 0.0052 ppm | 75.6003 ppm | 0.0006 ppm | -0.0004 ppm | 0.0010 ppm | -0.0020 ppm |
| Concentration per Run 2 | 0.0144 ppm | 0.0051 ppm | 66.8765 ppm | 0.0007 ppm | -0.0010 ppm | 0.0010 ppm | -0.0022 ppm |
| Concentration per Run 3 | 0.0144 ppm | 0.0050 ppm | 63.5499 ppm | 0.0006 ppm | -0.0017 ppm | 0.0024 ppm | 0.0010 ppm |
| Concentration RSD | 7.6 % | 2.1 % | 9.1 % | 11.5 % | 65.3 % | 54.8 % | 168.6 % |

| | 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 | 4.9534 ppm | 0.0008 ppm | 1.4222 ppm | 0.0004 ppm | 0.0006 ppm | -0.0001 ppm | 0.0043 ppm |
| Concentration per Run 1 | 4.9907 ppm | 0.0008 ppm | 1.5669 ppm | 0.0004 ppm | 0.0015 ppm | 0.0000 ppm | 0.0042 ppm |
| Concentration per Run 2 | 4.9449 ppm | 0.0010 ppm | 1.3822 ppm | 0.0003 ppm | 0.0002 ppm | -0.0002 ppm | 0.0042 ppm |
| Concentration per Run 3 | 4.9248 ppm | 0.0005 ppm | 1.3176 ppm | 0.0005 ppm | 0.0000 ppm | -0.0001 ppm | 0.0044 ppm |
| Concentration RSD | 0.7 % | 30.7 % | 9.1 % | 36.3 % | 143.6 % | 74.1 % | 2.4 % |

| | 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 | 93.6616 % | 102.6717 % | 102.4540 % | 91.5275 % | 92.1482 % | 99.8554 % | 0.0174 ppm |
| Concentration per Run 1 | 89.6529 % | 102.9441 % | 102.2193 % | 82.2848 % | 91.5073 % | 99.6539 % | 0.0196 ppm |
| Concentration per Run 2 | 95.6032 % | 102.8235 % | 102.6493 % | 93.6976 % | 92.3222 % | 99.9111 % | 0.0168 ppm |
| Concentration per Run 3 | 95.7288 % | 102.2474 % | 102.4934 % | 98.6001 % | 92.6150 % | 100.0013 % | 0.0157 ppm |
| Concentration RSD | 3.7 % | 0.4 % | 0.2 % | 9.1 % | 0.6 % | 0.2 % | 11.7 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473069-01 WG2010950
Analysis started at: 12/19/2024 6:27:11 PM
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 | 0.0000 ppm | 0.0021 ppm | 0.0023 ppm | 0.0883 ppm | 0.1206 ppm | 0.0000 ppm | 58.6269 ppm |
| Concentration per Run 1 | 0.0003 ppm | 0.0000 ppm | 0.0041 ppm | 0.0892 ppm | 0.1336 ppm | 0.0000 ppm | 65.1234 ppm |
| Concentration per Run 2 | -0.0003 ppm | -0.0001 ppm | 0.0012 ppm | 0.0880 ppm | 0.1167 ppm | 0.0000 ppm | 56.5986 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0064 ppm | 0.0015 ppm | 0.0877 ppm | 0.1115 ppm | 0.0000 ppm | 54.1586 ppm |
| Concentration RSD | 1,008.4 % | 176.4 % | 70.0 % | 0.9 % | 9.6 % | 68.7 % | 9.8 % |

| | 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 | 0.0001 ppm | 0.1490 ppm | 0.0665 ppm | 3.8930 ppm | 24.1131 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0002 ppm | 0.0002 ppm | 0.1494 ppm | 0.0746 ppm | 4.3313 ppm | 24.3387 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0000 ppm | 0.0001 ppm | 0.1486 ppm | 0.0641 ppm | 3.7879 ppm | 24.0605 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0001 ppm | -0.0001 ppm | 0.1489 ppm | 0.0608 ppm | 3.5597 ppm | 23.9402 ppm |
| Concentration RSD | 380.7 % | 516.8 % | 275.8 % | 0.3 % | 10.9 % | 10.2 % | 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 | 0.0150 ppm | 0.0037 ppm | 69.0086 ppm | 0.0002 ppm | -0.0008 ppm | 0.0004 ppm | 0.0006 ppm |
| Concentration per Run 1 | 0.0170 ppm | 0.0037 ppm | 76.4985 ppm | 0.0003 ppm | -0.0004 ppm | 0.0007 ppm | 0.0002 ppm |
| Concentration per Run 2 | 0.0142 ppm | 0.0039 ppm | 66.7125 ppm | 0.0000 ppm | -0.0004 ppm | 0.0008 ppm | 0.0004 ppm |
| Concentration per Run 3 | 0.0140 ppm | 0.0034 ppm | 63.8148 ppm | 0.0003 ppm | -0.0015 ppm | -0.0002 ppm | 0.0012 ppm |
| Concentration RSD | 11.0 % | 6.5 % | 9.6 % | 89.1 % | 86.2 % | 138.8 % | 96.1 % |

| | 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 | 5.0378 ppm | 0.0004 ppm | 1.4269 ppm | 0.0004 ppm | 0.0011 ppm | -0.0002 ppm | 0.0066 ppm |
| Concentration per Run 1 | 5.0874 ppm | 0.0003 ppm | 1.5803 ppm | 0.0003 ppm | 0.0004 ppm | -0.0002 ppm | 0.0068 ppm |
| Concentration per Run 2 | 5.0197 ppm | 0.0004 ppm | 1.3796 ppm | 0.0005 ppm | 0.0027 ppm | -0.0002 ppm | 0.0066 ppm |
| Concentration per Run 3 | 5.0062 ppm | 0.0005 ppm | 1.3207 ppm | 0.0003 ppm | 0.0003 ppm | -0.0001 ppm | 0.0065 ppm |
| Concentration RSD | 0.9 % | 25.1 % | 9.5 % | 32.5 % | 120.7 % | 59.2 % | 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 | 92.8839 % | 103.0165 % | 102.4408 % | 92.7087 % | 91.5655 % | 100.3073 % | 0.0177 ppm |
| Concentration per Run 1 | 87.5824 % | 103.1478 % | 102.2944 % | 83.7989 % | 90.7341 % | 100.0642 % | 0.0199 ppm |
| Concentration per Run 2 | 95.4251 % | 103.1422 % | 102.5299 % | 95.2142 % | 91.7767 % | 100.4395 % | 0.0171 ppm |
| Concentration per Run 3 | 95.6441 % | 102.7595 % | 102.4983 % | 99.1130 % | 92.1855 % | 100.4182 % | 0.0161 ppm |
| Concentration RSD | 4.9 % | 0.2 % | 0.1 % | 8.6 % | 0.8 % | 0.2 % | 11.0 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473492-01 WG2010950
Analysis started at: 12/19/2024 6:34:03 PM
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 | 0.0002 ppm | 0.0752 ppm | 0.0010 ppm | 0.0143 ppm | 0.1561 ppm | 0.0001 ppm | 7.6628 ppm |
| Concentration per Run 1 | 0.0004 ppm | 0.0862 ppm | -0.0001 ppm | 0.0142 ppm | 0.1717 ppm | 0.0001 ppm | 8.4266 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.0734 ppm | 0.0020 ppm | 0.0143 ppm | 0.1520 ppm | 0.0001 ppm | 7.4176 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0659 ppm | 0.0011 ppm | 0.0143 ppm | 0.1447 ppm | 0.0000 ppm | 7.1443 ppm |
| Concentration RSD | 173.3 % | 13.7 % | 109.8 % | 0.4 % | 9.0 % | 49.5 % | 8.8 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0001 ppm | 0.0000 ppm | 0.0001 ppm | 0.0007 ppm | 0.0622 ppm | 2.9847 ppm | 1.7652 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0000 ppm | 0.0005 ppm | 0.0004 ppm | 0.0681 ppm | 3.3207 ppm | 1.7677 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0001 ppm | 0.0001 ppm | 0.0009 ppm | 0.0602 ppm | 2.8789 ppm | 1.7732 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0000 ppm | -0.0002 ppm | 0.0007 ppm | 0.0584 ppm | 2.7545 ppm | 1.7549 ppm |
| Concentration RSD | 7.0 % | 131.9 % | 253.6 % | 36.4 % | 8.3 % | 10.0 % | 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 | 0.0473 ppm | 0.0001 ppm | 38.3480 ppm | 0.0002 ppm | -0.0010 ppm | -0.0001 ppm | -0.0003 ppm |
| Concentration per Run 1 | 0.0521 ppm | 0.0001 ppm | 42.1783 ppm | 0.0004 ppm | -0.0013 ppm | -0.0001 ppm | -0.0002 ppm |
| Concentration per Run 2 | 0.0460 ppm | 0.0002 ppm | 37.3556 ppm | 0.0000 ppm | -0.0004 ppm | 0.0008 ppm | -0.0003 ppm |
| Concentration per Run 3 | 0.0436 ppm | 0.0000 ppm | 35.5103 ppm | 0.0003 ppm | -0.0013 ppm | -0.0009 ppm | -0.0003 ppm |
| Concentration RSD | 9.3 % | 101.4 % | 9.0 % | 77.4 % | 54.4 % | 1,327.3 % | 11.2 % |

| | 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 | 5.8651 ppm | 0.0001 ppm | 0.0922 ppm | 0.0002 ppm | 0.0013 ppm | 0.0000 ppm | 0.0161 ppm |
| Concentration per Run 1 | 5.8866 ppm | -0.0004 ppm | 0.1011 ppm | 0.0004 ppm | 0.0020 ppm | 0.0001 ppm | 0.0163 ppm |
| Concentration per Run 2 | 5.8747 ppm | 0.0005 ppm | 0.0898 ppm | 0.0001 ppm | 0.0010 ppm | -0.0001 ppm | 0.0161 ppm |
| Concentration per Run 3 | 5.8340 ppm | 0.0002 ppm | 0.0859 ppm | 0.0003 ppm | 0.0010 ppm | -0.0001 ppm | 0.0159 ppm |
| Concentration RSD | 0.5 % | 383.7 % | 8.6 % | 66.2 % | 43.6 % | 275.4 % | 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 | 95.4056 % | 106.0587 % | 106.7272 % | 93.8819 % | 96.7616 % | 102.5789 % | 0.0001 ppm |
| Concentration per Run 1 | 91.6979 % | 106.4385 % | 107.1619 % | 85.4121 % | 96.4600 % | 102.5155 % | 0.0000 ppm |
| Concentration per Run 2 | 97.0972 % | 105.7354 % | 106.4550 % | 95.9624 % | 96.5581 % | 102.2289 % | -0.0006 ppm |
| Concentration per Run 3 | 97.4218 % | 106.0022 % | 106.5646 % | 100.2713 % | 97.2666 % | 102.9923 % | 0.0010 ppm |
| Concentration RSD | 3.4 % | 0.3 % | 0.4 % | 8.1 % | 0.5 % | 0.4 % | 766.8 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473872-01 WG2010950
Analysis started at: 12/19/2024 6:40:41 PM
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 | 0.0001 ppm | 0.0118 ppm | 0.0004 ppm | 0.0244 ppm | 0.0404 ppm | 0.0001 ppm | 62.4640 ppm |
| Concentration per Run 1 | 0.0003 ppm | 0.0131 ppm | 0.0000 ppm | 0.0247 ppm | 0.0443 ppm | 0.0001 ppm | 68.6943 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0052 ppm | 0.0011 ppm | 0.0244 ppm | 0.0393 ppm | 0.0000 ppm | 60.3036 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0171 ppm | 0.0001 ppm | 0.0241 ppm | 0.0377 ppm | 0.0001 ppm | 58.3941 ppm |
| Concentration RSD | 85.7 % | 51.4 % | 140.9 % | 1.2 % | 8.6 % | 66.7 % | 8.8 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0000 ppm | 0.0000 ppm | 0.0004 ppm | 0.0783 ppm | 0.0653 ppm | 4.4946 ppm | 26.2334 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0000 ppm | 0.0001 ppm | 0.0782 ppm | 0.0721 ppm | 4.9493 ppm | 26.3632 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0001 ppm | 0.0003 ppm | 0.0786 ppm | 0.0615 ppm | 4.3872 ppm | 26.2982 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0000 ppm | 0.0006 ppm | 0.0781 ppm | 0.0624 ppm | 4.1475 ppm | 26.0387 ppm |
| Concentration RSD | 171.1 % | 311.4 % | 66.7 % | 0.3 % | 9.0 % | 9.2 % | 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 | 0.1211 ppm | 0.0019 ppm | 18.5835 ppm | 0.0011 ppm | 0.0044 ppm | -0.0001 ppm | 0.0004 ppm |
| Concentration per Run 1 | 0.1342 ppm | 0.0019 ppm | 20.3294 ppm | 0.0013 ppm | 0.0044 ppm | 0.0001 ppm | -0.0003 ppm |
| Concentration per Run 2 | 0.1169 ppm | 0.0019 ppm | 18.1022 ppm | 0.0009 ppm | 0.0044 ppm | -0.0003 ppm | 0.0002 ppm |
| Concentration per Run 3 | 0.1123 ppm | 0.0020 ppm | 17.3190 ppm | 0.0011 ppm | 0.0044 ppm | -0.0001 ppm | 0.0014 ppm |
| Concentration RSD | 9.6 % | 2.3 % | 8.4 % | 16.8 % | 0.6 % | 190.7 % | 212.7 % |

| | 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 | 6.2352 ppm | 0.0005 ppm | 0.1217 ppm | 0.0005 ppm | 0.0009 ppm | -0.0002 ppm | 0.0644 ppm |
| Concentration per Run 1 | 6.2892 ppm | 0.0009 ppm | 0.1329 ppm | 0.0002 ppm | 0.0007 ppm | -0.0002 ppm | 0.0649 ppm |
| Concentration per Run 2 | 6.2203 ppm | 0.0002 ppm | 0.1188 ppm | 0.0006 ppm | 0.0011 ppm | -0.0003 ppm | 0.0646 ppm |
| Concentration per Run 3 | 6.1961 ppm | 0.0006 ppm | 0.1135 ppm | 0.0007 ppm | 0.0010 ppm | -0.0001 ppm | 0.0638 ppm |
| Concentration RSD | 0.8 % | 62.2 % | 8.2 % | 47.6 % | 23.5 % | 33.8 % | 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 | 94.3254 % | 103.6595 % | 104.2658 % | 93.4845 % | 94.3607 % | 100.6208 % | 0.0043 ppm |
| Concentration per Run 1 | 91.3307 % | 103.8451 % | 104.3480 % | 85.2212 % | 93.7585 % | 100.3359 % | 0.0049 ppm |
| Concentration per Run 2 | 96.6006 % | 103.2780 % | 104.6980 % | 96.1736 % | 94.8148 % | 100.3419 % | 0.0039 ppm |
| Concentration per Run 3 | 95.0450 % | 103.8552 % | 103.7514 % | 99.0587 % | 94.5086 % | 101.1846 % | 0.0042 ppm |
| Concentration RSD | 2.9 % | 0.3 % | 0.5 % | 7.8 % | 0.6 % | 0.5 % | 12.5 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010950-3 WG2010950
Analysis started at: 12/19/2024 6:47:20 PM
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 | 0.0521 ppm | 2.4652 ppm | 0.1255 ppm | 1.0601 ppm | 2.3514 ppm | 0.0574 ppm | 72.2160 ppm |
| Concentration per Run 1 | 0.0522 ppm | 2.6912 ppm | 0.1270 ppm | 1.0580 ppm | 2.5693 ppm | 0.0626 ppm | 78.8933 ppm |
| Concentration per Run 2 | 0.0520 ppm | 2.4033 ppm | 0.1251 ppm | 1.0654 ppm | 2.2905 ppm | 0.0559 ppm | 70.4118 ppm |
| Concentration per Run 3 | 0.0522 ppm | 2.3012 ppm | 0.1244 ppm | 1.0568 ppm | 2.1943 ppm | 0.0536 ppm | 67.3430 ppm |
| Concentration RSD | 0.2 % | 8.2 % | 1.0 % | 0.4 % | 8.3 % | 8.2 % | 8.3 % |

| | 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 | 0.0546 ppm | 0.5347 ppm | 0.1960 ppm | 0.3372 ppm | 1.1406 ppm | 16.2937 ppm | 36.0332 ppm |
| Concentration per Run 1 | 0.0544 ppm | 0.5339 ppm | 0.1976 ppm | 0.3364 ppm | 1.2444 ppm | 17.7433 ppm | 36.2859 ppm |
| Concentration per Run 2 | 0.0549 ppm | 0.5382 ppm | 0.1960 ppm | 0.3368 ppm | 1.1122 ppm | 15.9063 ppm | 35.9375 ppm |
| Concentration per Run 3 | 0.0544 ppm | 0.5321 ppm | 0.1945 ppm | 0.3384 ppm | 1.0653 ppm | 15.2316 ppm | 35.8762 ppm |
| Concentration RSD | 0.5 % | 0.6 % | 0.8 % | 0.3 % | 8.1 % | 8.0 % | 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 | 0.6620 ppm | 0.9913 ppm | 30.6287 ppm | 0.5036 ppm | 0.5729 ppm | 0.5475 ppm | 0.1340 ppm |
| Concentration per Run 1 | 0.7242 ppm | 0.9819 ppm | 33.4200 ppm | 0.5026 ppm | 0.5732 ppm | 0.5456 ppm | 0.1360 ppm |
| Concentration per Run 2 | 0.6449 ppm | 0.9970 ppm | 29.9017 ppm | 0.5058 ppm | 0.5754 ppm | 0.5522 ppm | 0.1328 ppm |
| Concentration per Run 3 | 0.6168 ppm | 0.9949 ppm | 28.5644 ppm | 0.5023 ppm | 0.5701 ppm | 0.5449 ppm | 0.1334 ppm |
| Concentration RSD | 8.4 % | 0.8 % | 8.2 % | 0.4 % | 0.5 % | 0.7 % | 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 | 7.3749 ppm | 0.9685 ppm | 1.2198 ppm | 1.0294 ppm | 0.1259 ppm | 0.5022 ppm | 0.5882 ppm |
| Concentration per Run 1 | 7.3765 ppm | 0.9668 ppm | 1.3334 ppm | 1.0349 ppm | 0.1275 ppm | 0.5044 ppm | 0.5869 ppm |
| Concentration per Run 2 | 7.4118 ppm | 0.9740 ppm | 1.1877 ppm | 1.0269 ppm | 0.1255 ppm | 0.5013 ppm | 0.5915 ppm |
| Concentration per Run 3 | 7.3364 ppm | 0.9648 ppm | 1.1382 ppm | 1.0265 ppm | 0.1246 ppm | 0.5009 ppm | 0.5861 ppm |
| Concentration RSD | 0.5 % | 0.5 % | 8.3 % | 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 | 93.6869 % | 103.2863 % | 103.6403 % | 95.5391 % | 92.4181 % | 102.1154 % | 0.0040 ppm |
| Concentration per Run 1 | 90.0514 % | 103.9420 % | 103.6809 % | 87.4495 % | 92.5188 % | 102.5110 % | 0.0038 ppm |
| Concentration per Run 2 | 95.1442 % | 103.3739 % | 103.5564 % | 97.0918 % | 91.8323 % | 102.1970 % | 0.0044 ppm |
| Concentration per Run 3 | 95.8651 % | 102.5430 % | 103.6837 % | 102.0759 % | 92.9031 % | 101.6383 % | 0.0037 ppm |
| Concentration RSD | 3.4 % | 0.7 % | 0.1 % | 7.8 % | 0.6 % | 0.4 % | 8.9 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010950-4 WG2010950
Analysis started at: 12/19/2024 6:53:43 PM
Rack: 1
Vial: 45

| | Ag 328.068 {103} (Axial) | Al 396.152 {85} (Radial) | As 189.042 {478} (Axial) | B 208.959 {461} (Axial) | Ba 455.403 {74} (Radial) | Be 313.042 {108} (Radial) | Ca 315.887 {107} (Radial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0003 ppm | 0.0096 ppm | 0.0010 ppm | 0.0253 ppm | 0.0405 ppm | 0.0001 ppm | 62.4947 ppm |
| Concentration per Run 1 | 0.0003 ppm | 0.0138 ppm | -0.0004 ppm | 0.0249 ppm | 0.0446 ppm | 0.0001 ppm | 69.1757 ppm |
| Concentration per Run 2 | 0.0004 ppm | 0.0070 ppm | 0.0018 ppm | 0.0256 ppm | 0.0394 ppm | 0.0001 ppm | 60.7844 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0081 ppm | 0.0016 ppm | 0.0254 ppm | 0.0376 ppm | 0.0001 ppm | 57.5240 ppm |
| Concentration RSD | 65.7 % | 37.5 % | 123.6 % | 1.3 % | 8.9 % | 24.1 % | 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 | 0.0000 ppm | -0.0001 ppm | 0.0004 ppm | 0.0773 ppm | 0.0652 ppm | 4.4976 ppm | 26.0639 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0001 ppm | 0.0003 ppm | 0.0775 ppm | 0.0710 ppm | 4.9732 ppm | 26.1305 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0002 ppm | 0.0005 ppm | 0.0772 ppm | 0.0650 ppm | 4.3745 ppm | 26.0506 ppm |
| Concentration per Run 3 | 0.0001 ppm | -0.0001 ppm | 0.0003 ppm | 0.0774 ppm | 0.0597 ppm | 4.1453 ppm | 26.0107 ppm |
| Concentration RSD | 196.8 % | 218.2 % | 37.8 % | 0.2 % | 8.6 % | 9.5 % | 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 | 0.1212 ppm | 0.0041 ppm | 18.5857 ppm | 0.0011 ppm | 0.0044 ppm | 0.0012 ppm | -0.0013 ppm |
| Concentration per Run 1 | 0.1344 ppm | 0.0044 ppm | 20.4143 ppm | 0.0013 ppm | 0.0045 ppm | 0.0012 ppm | 0.0001 ppm |
| Concentration per Run 2 | 0.1177 ppm | 0.0040 ppm | 18.0609 ppm | 0.0009 ppm | 0.0042 ppm | 0.0019 ppm | -0.0015 ppm |
| Concentration per Run 3 | 0.1114 ppm | 0.0039 ppm | 17.2820 ppm | 0.0012 ppm | 0.0046 ppm | 0.0006 ppm | -0.0025 ppm |
| Concentration RSD | 9.8 % | 6.9 % | 8.8 % | 16.5 % | 4.6 % | 53.6 % | 103.3 % |

| | 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 | 6.1630 ppm | 0.0018 ppm | 0.1217 ppm | 0.0005 ppm | 0.0001 ppm | -0.0001 ppm | 0.0633 ppm |
| Concentration per Run 1 | 6.0415 ppm | 0.0014 ppm | 0.1340 ppm | 0.0005 ppm | -0.0012 ppm | -0.0002 ppm | 0.0624 ppm |
| Concentration per Run 2 | 6.2828 ppm | 0.0017 ppm | 0.1180 ppm | 0.0004 ppm | 0.0009 ppm | -0.0001 ppm | 0.0643 ppm |
| Concentration per Run 3 | 6.1646 ppm | 0.0024 ppm | 0.1130 ppm | 0.0005 ppm | 0.0006 ppm | -0.0001 ppm | 0.0631 ppm |
| Concentration RSD | 2.0 % | 28.8 % | 9.0 % | 8.7 % | 1,105.0 % | 28.9 % | 1.5 % |

| | 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 | 93.6749 % | 103.7940 % | 105.5736 % | 92.2906 % | 95.2910 % | 101.1044 % | 0.0040 ppm |
| Concentration per Run 1 | 90.1091 % | 104.0879 % | 107.3764 % | 83.7072 % | 96.8119 % | 100.9402 % | 0.0029 ppm |
| Concentration per Run 2 | 95.2924 % | 103.8506 % | 104.6109 % | 94.0032 % | 93.6119 % | 101.2528 % | 0.0048 ppm |
| Concentration per Run 3 | 95.6231 % | 103.4433 % | 104.7336 % | 99.1613 % | 95.4492 % | 101.1203 % | 0.0043 ppm |
| Concentration RSD | 3.3 % | 0.3 % | 1.5 % | 8.5 % | 1.7 % | 0.2 % | 25.5 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010950-5 WG2010950
Analysis started at: 12/19/2024 7:00:25 PM
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 | 0.0536 ppm | 2.5051 ppm | 0.1322 ppm | 1.1234 ppm | 2.4588 ppm | 0.0602 ppm | 70.7356 ppm |
| Concentration per Run 1 | 0.0537 ppm | 2.7368 ppm | 0.1305 ppm | 1.1118 ppm | 2.6874 ppm | 0.0659 ppm | 77.7534 ppm |
| Concentration per Run 2 | 0.0538 ppm | 2.4389 ppm | 0.1347 ppm | 1.1341 ppm | 2.3905 ppm | 0.0586 ppm | 69.0218 ppm |
| Concentration per Run 3 | 0.0534 ppm | 2.3395 ppm | 0.1314 ppm | 1.1244 ppm | 2.2985 ppm | 0.0559 ppm | 65.4317 ppm |
| Concentration RSD | 0.4 % | 8.3 % | 1.7 % | 1.0 % | 8.3 % | 8.6 % | 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 | 0.0558 ppm | 0.5560 ppm | 0.2050 ppm | 0.3466 ppm | 1.2090 ppm | 17.1881 ppm | 35.8056 ppm |
| Concentration per Run 1 | 0.0556 ppm | 0.5519 ppm | 0.2056 ppm | 0.3474 ppm | 1.3213 ppm | 18.7798 ppm | 35.9123 ppm |
| Concentration per Run 2 | 0.0563 ppm | 0.5606 ppm | 0.2043 ppm | 0.3481 ppm | 1.1817 ppm | 16.7693 ppm | 35.7880 ppm |
| Concentration per Run 3 | 0.0556 ppm | 0.5555 ppm | 0.2049 ppm | 0.3443 ppm | 1.1241 ppm | 16.0152 ppm | 35.7163 ppm |
| Concentration RSD | 0.7 % | 0.8 % | 0.3 % | 0.6 % | 8.4 % | 8.3 % | 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 | 0.6931 ppm | 1.0565 ppm | 31.1107 ppm | 0.5395 ppm | 0.5963 ppm | 0.5554 ppm | 0.1398 ppm |
| Concentration per Run 1 | 0.7612 ppm | 1.0352 ppm | 33.9743 ppm | 0.5353 ppm | 0.5911 ppm | 0.5460 ppm | 0.1406 ppm |
| Concentration per Run 2 | 0.6763 ppm | 1.0677 ppm | 30.2847 ppm | 0.5442 ppm | 0.6013 ppm | 0.5591 ppm | 0.1407 ppm |
| Concentration per Run 3 | 0.6418 ppm | 1.0666 ppm | 29.0731 ppm | 0.5391 ppm | 0.5965 ppm | 0.5611 ppm | 0.1383 ppm |
| Concentration RSD | 8.9 % | 1.7 % | 8.2 % | 0.8 % | 0.9 % | 1.5 % | 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 | 7.3066 ppm | 1.0494 ppm | 1.3143 ppm | 1.1096 ppm | 0.1306 ppm | 0.5258 ppm | 0.6257 ppm |
| Concentration per Run 1 | 7.2374 ppm | 1.0397 ppm | 1.4354 ppm | 1.1139 ppm | 0.1300 ppm | 0.5279 ppm | 0.6225 ppm |
| Concentration per Run 2 | 7.3764 ppm | 1.0584 ppm | 1.2783 ppm | 1.1079 ppm | 0.1319 ppm | 0.5246 ppm | 0.6296 ppm |
| Concentration per Run 3 | 7.3060 ppm | 1.0501 ppm | 1.2291 ppm | 1.1070 ppm | 0.1297 ppm | 0.5248 ppm | 0.6249 ppm |
| Concentration RSD | 1.0 % | 0.9 % | 8.2 % | 0.3 % | 0.9 % | 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 | 93.6702 % | 103.4427 % | 104.7040 % | 95.0171 % | 93.9709 % | 102.6219 % | 0.0039 ppm |
| Concentration per Run 1 | 90.1389 % | 103.4970 % | 105.1378 % | 86.5188 % | 95.1069 % | 102.3098 % | 0.0036 ppm |
| Concentration per Run 2 | 95.1081 % | 103.4728 % | 104.4809 % | 96.9825 % | 93.0277 % | 102.5511 % | 0.0043 ppm |
| Concentration per Run 3 | 95.7636 % | 103.3583 % | 104.4933 % | 101.5499 % | 93.7782 % | 103.0047 % | 0.0038 ppm |
| Concentration RSD | 3.3 % | 0.1 % | 0.4 % | 8.1 % | 1.1 % | 0.3 % | 8.7 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010950-6D5 WG2010950
Analysis started at: 12/19/2024 7:06:48 PM
Rack: 1
Vial: 47

| | Ag 328.068 {103} (Axial) | Al 396.152 {85} (Radial) | As 189.042 {478} (Axial) | B 208.959 {461} (Axial) | Ba 455.403 {74} (Radial) | Be 313.042 {108} (Radial) | Ca 315.887 {107} (Radial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0003 ppm | 0.0019 ppm | 0.0019 ppm | 0.0068 ppm | 0.0078 ppm | 0.0000 ppm | 12.0907 ppm |
| Concentration per Run 1 | 0.0004 ppm | -0.0005 ppm | 0.0029 ppm | 0.0070 ppm | 0.0084 ppm | 0.0000 ppm | 13.1187 ppm |
| Concentration per Run 2 | 0.0005 ppm | 0.0037 ppm | 0.0007 ppm | 0.0069 ppm | 0.0076 ppm | -0.0001 ppm | 11.7585 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0026 ppm | 0.0021 ppm | 0.0066 ppm | 0.0074 ppm | 0.0000 ppm | 11.3948 ppm |
| Concentration RSD | 51.0 % | 112.5 % | 58.9 % | 3.1 % | 7.4 % | 437.8 % | 7.5 % |

| | 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 | -0.0002 ppm | -0.0002 ppm | 0.0155 ppm | 0.0127 ppm | 0.8478 ppm | 5.1755 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0003 ppm | -0.0001 ppm | 0.0151 ppm | 0.0131 ppm | 0.9415 ppm | 5.1910 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0001 ppm | -0.0003 ppm | 0.0157 ppm | 0.0135 ppm | 0.8186 ppm | 5.1551 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0002 ppm | -0.0001 ppm | 0.0156 ppm | 0.0116 ppm | 0.7832 ppm | 5.1803 ppm |
| Concentration RSD | 57.5 % | 63.8 % | 45.0 % | 2.1 % | 8.0 % | 9.8 % | 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 | 0.0234 ppm | 0.0031 ppm | 3.5374 ppm | 0.0003 ppm | 0.0008 ppm | 0.0037 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0255 ppm | 0.0034 ppm | 3.7986 ppm | 0.0004 ppm | 0.0008 ppm | 0.0038 ppm | 0.0008 ppm |
| Concentration per Run 2 | 0.0226 ppm | 0.0032 ppm | 3.4659 ppm | 0.0003 ppm | 0.0005 ppm | 0.0038 ppm | -0.0013 ppm |
| Concentration per Run 3 | 0.0220 ppm | 0.0027 ppm | 3.3477 ppm | 0.0003 ppm | 0.0011 ppm | 0.0036 ppm | 0.0007 ppm |
| Concentration RSD | 8.1 % | 11.5 % | 6.6 % | 8.1 % | 38.8 % | 2.8 % | 1,722.9 % |

| | 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 | 1.2137 ppm | 0.0025 ppm | 0.0234 ppm | 0.0002 ppm | 0.0010 ppm | -0.0001 ppm | 0.0123 ppm |
| Concentration per Run 1 | 1.2154 ppm | 0.0027 ppm | 0.0251 ppm | 0.0001 ppm | 0.0006 ppm | 0.0001 ppm | 0.0122 ppm |
| Concentration per Run 2 | 1.2138 ppm | 0.0029 ppm | 0.0229 ppm | 0.0003 ppm | 0.0011 ppm | -0.0002 ppm | 0.0124 ppm |
| Concentration per Run 3 | 1.2119 ppm | 0.0021 ppm | 0.0221 ppm | 0.0004 ppm | 0.0013 ppm | -0.0002 ppm | 0.0123 ppm |
| Concentration RSD | 0.1 % | 16.6 % | 6.6 % | 67.7 % | 34.2 % | 138.6 % | 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 | 94.2841 % | 105.6101 % | 107.1849 % | 98.8401 % | 99.8707 % | 105.3837 % | 0.0011 ppm |
| Concentration per Run 1 | 91.7193 % | 105.9586 % | 107.7037 % | 91.3580 % | 99.9824 % | 105.5274 % | 0.0017 ppm |
| Concentration per Run 2 | 96.0292 % | 105.5419 % | 107.3001 % | 101.4088 % | 99.9656 % | 105.3145 % | 0.0012 ppm |
| Concentration per Run 3 | 95.1039 % | 105.3297 % | 106.5509 % | 103.7535 % | 99.6642 % | 105.3091 % | 0.0005 ppm |
| Concentration RSD | 2.4 % | 0.3 % | 0.5 % | 6.7 % | 0.2 % | 0.1 % | 54.2 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 7:13:33 PM
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 | 0.4784 ppm | 0.4957 ppm | 0.4604 ppm | 0.4897 ppm | 0.4845 ppm | 0.4834 ppm | 0.5008 ppm |
| Concentration per Run 1 | 0.4962 ppm | 0.5178 ppm | 0.4587 ppm | 0.4881 ppm | 0.5050 ppm | 0.5058 ppm | 0.5248 ppm |
| Concentration per Run 2 | 0.4727 ppm | 0.4884 ppm | 0.4602 ppm | 0.4897 ppm | 0.4785 ppm | 0.4758 ppm | 0.4887 ppm |
| Concentration per Run 3 | 0.4662 ppm | 0.4809 ppm | 0.4621 ppm | 0.4912 ppm | 0.4701 ppm | 0.4687 ppm | 0.4888 ppm |
| Recovery Percentage 1 | 95.670 % | 99.139 % | 92.071 % | 97.930 % | 96.905 % | 96.686 % | 100.152 % |
| Concentration RSD | 3.3 % | 3.9 % | 0.4 % | 0.3 % | 3.8 % | 4.1 % | 4.2 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.4733 ppm | 0.5067 ppm | 0.4741 ppm | 0.4754 ppm | 0.4678 ppm | 5.1040 ppm | 0.4937 ppm |
| Concentration per Run 1 | 0.4735 ppm | 0.5065 ppm | 0.4906 ppm | 0.4947 ppm | 0.4865 ppm | 5.2927 ppm | 0.5074 ppm |
| Concentration per Run 2 | 0.4734 ppm | 0.5065 ppm | 0.4677 ppm | 0.4690 ppm | 0.4612 ppm | 5.0942 ppm | 0.4902 ppm |
| Concentration per Run 3 | 0.4731 ppm | 0.5069 ppm | 0.4641 ppm | 0.4625 ppm | 0.4558 ppm | 4.9253 ppm | 0.4834 ppm |
| Recovery Percentage 1 | 94.668 % | 101.332 % | 94.823 % | 95.083 % | 93.569 % | 102.081 % | 98.737 % |
| Concentration RSD | 0.0 % | 0.0 % | 3.0 % | 3.6 % | 3.5 % | 3.6 % | 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 | 0.4625 ppm | 0.4844 ppm | 10.3605 ppm | 0.4896 ppm | 0.5017 ppm | 0.5083 ppm | 0.4965 ppm |
| Concentration per Run 1 | 0.4821 ppm | 0.4824 ppm | 10.7793 ppm | 0.4889 ppm | 0.5016 ppm | 0.5076 ppm | 0.4937 ppm |
| Concentration per Run 2 | 0.4575 ppm | 0.4840 ppm | 10.2649 ppm | 0.4903 ppm | 0.5018 ppm | 0.5088 ppm | 0.5011 ppm |
| Concentration per Run 3 | 0.4478 ppm | 0.4867 ppm | 10.0373 ppm | 0.4895 ppm | 0.5019 ppm | 0.5086 ppm | 0.4946 ppm |
| Recovery Percentage 1 | 92.498 % | 96.873 % | 103.605 % | 97.912 % | 100.349 % | 101.668 % | 99.293 % |
| Concentration RSD | 3.8 % | 0.4 % | 3.7 % | 0.2 % | 0.0 % | 0.1 % | 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 | 5.6326 ppm | 0.4820 ppm | 0.5011 ppm | 0.5048 ppm | 0.4925 ppm | 0.4797 ppm | 0.5024 ppm |
| Concentration per Run 1 | 5.6159 ppm | 0.4809 ppm | 0.5223 ppm | 0.5244 ppm | 0.4915 ppm | 0.4978 ppm | 0.5030 ppm |
| Concentration per Run 2 | 5.6348 ppm | 0.4832 ppm | 0.4950 ppm | 0.4968 ppm | 0.4934 ppm | 0.4728 ppm | 0.5024 ppm |
| Concentration per Run 3 | 5.6471 ppm | 0.4819 ppm | 0.4861 ppm | 0.4931 ppm | 0.4926 ppm | 0.4686 ppm | 0.5017 ppm |
| Recovery Percentage 1 | 107.287 % | 96.404 % | 100.227 % | 100.952 % | 98.494 % | 95.947 % | 100.470 % |
| Concentration RSD | 0.3 % | 0.2 % | 3.8 % | 3.4 % | 0.2 % | 3.3 % | 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 | 94.6897 % | 103.8043 % | 107.6097 % | 106.1902 % | 99.3023 % | 103.2766 % | 0.5040 ppm |
| Concentration per Run 1 | 93.7780 % | 101.0354 % | 107.8043 % | 102.4167 % | 99.7203 % | 99.5713 % | 0.5257 ppm |
| Concentration per Run 2 | 95.5383 % | 104.7747 % | 107.6446 % | 107.2785 % | 99.1869 % | 104.2620 % | 0.5002 ppm |
| Concentration per Run 3 | 94.7529 % | 105.6029 % | 107.3802 % | 108.8754 % | 98.9996 % | 105.9965 % | 0.4860 ppm |
| Recovery Percentage 1 | | | | | | | 100.791 % |
| Concentration RSD | 0.9 % | 2.3 % | 0.2 % | 3.2 % | 0.4 % | 3.2 % | 4.0 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/19/2024 7:19:58 PM
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 | 0.0022 ppm | 0.0021 ppm | 0.0022 ppm | 0.0000 ppm | 0.0000 ppm | 0.0269 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0073 ppm | 0.0010 ppm | 0.0024 ppm | 0.0000 ppm | -0.0001 ppm | 0.0201 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0057 ppm | 0.0024 ppm | 0.0020 ppm | -0.0001 ppm | 0.0000 ppm | 0.0338 ppm |
| Concentration per Run 3 | 0.0001 ppm | -0.0064 ppm | 0.0030 ppm | 0.0022 ppm | 0.0001 ppm | 0.0000 ppm | 0.0267 ppm |
| Recovery Percentage 1 | -0.734 % | 2.205 % | 42.890 % | 7.377 % | -0.095 % | -0.672 % | 26.854 % |
| Concentration RSD | 283.4 % | 339.8 % | 46.0 % | 7.6 % | 646.8 % | 91.8 % | 25.6 % |

| | 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 | 0.0000 ppm | -0.0007 ppm | 0.0066 ppm | 0.0004 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0001 ppm | -0.0002 ppm | 0.0000 ppm | -0.0004 ppm | 0.0265 ppm | 0.0001 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0000 ppm | 0.0003 ppm | 0.0001 ppm | 0.0000 ppm | -0.0118 ppm | -0.0003 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0000 ppm | 0.0002 ppm | 0.0001 ppm | -0.0018 ppm | 0.0052 ppm | 0.0014 ppm |
| Recovery Percentage 1 | 0.910 % | -0.059 % | 0.960 % | 0.434 % | -1.411 % | 0.265 % | 0.392 % |
| Concentration RSD | 72.6 % | 451.2 % | 301.6 % | 162.7 % | 134.4 % | 289.4 % | 223.2 % |

| | 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 | -0.0004 ppm | 0.0011 ppm | 0.0041 ppm | 0.0000 ppm | 0.0000 ppm | 0.0015 ppm | 0.0014 ppm |
| Concentration per Run 1 | -0.0005 ppm | 0.0011 ppm | 0.0155 ppm | -0.0003 ppm | 0.0004 ppm | 0.0019 ppm | 0.0024 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.0012 ppm | 0.0002 ppm | 0.0000 ppm | -0.0002 ppm | 0.0017 ppm | 0.0006 ppm |
| Concentration per Run 3 | -0.0004 ppm | 0.0009 ppm | -0.0035 ppm | 0.0002 ppm | -0.0003 ppm | 0.0009 ppm | 0.0012 ppm |
| Recovery Percentage 1 | -4.148 % | 2.116 % | 0.204 % | -0.129 % | -0.252 % | 3.037 % | 13.676 % |
| Concentration RSD | 23.8 % | 15.9 % | 247.0 % | 849.7 % | 1,410.1 % | 33.8 % | 67.0 % |

| | 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 | 0.0030 ppm | 0.0009 ppm | 0.0000 ppm | 0.0001 ppm | -0.0001 ppm | -0.0001 ppm | 0.0002 ppm |
| Concentration per Run 1 | 0.0031 ppm | 0.0010 ppm | 0.0001 ppm | 0.0002 ppm | 0.0009 ppm | 0.0000 ppm | 0.0002 ppm |
| Concentration per Run 2 | 0.0031 ppm | 0.0007 ppm | 0.0001 ppm | 0.0001 ppm | -0.0007 ppm | 0.0000 ppm | 0.0001 ppm |
| Concentration per Run 3 | 0.0028 ppm | 0.0011 ppm | 0.0000 ppm | -0.0001 ppm | -0.0005 ppm | -0.0004 ppm | 0.0001 ppm |
| Recovery Percentage 1 | 0.607 % | 1.809 % | 0.323 % | 0.821 % | -0.468 % | -1.133 % | 3.122 % |
| Concentration RSD | 6.0 % | 25.8 % | 169.3 % | 222.4 % | 943.5 % | 210.8 % | 37.5 % |

| | 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 | 95.0816 % | 106.1133 % | 106.9981 % | 103.9893 % | 99.3760 % | 105.9374 % | 0.0004 ppm |
| Concentration per Run 1 | 94.2243 % | 105.9262 % | 108.9002 % | 99.9491 % | 101.2599 % | 105.6356 % | 0.0007 ppm |
| Concentration per Run 2 | 95.5169 % | 105.8818 % | 107.7069 % | 105.1070 % | 100.1209 % | 105.7643 % | 0.0008 ppm |
| Concentration per Run 3 | 95.5037 % | 106.5320 % | 104.3872 % | 106.9119 % | 96.7472 % | 106.4123 % | -0.0004 ppm |
| Recovery Percentage 1 | | | | | | | 3.797 % |
| Concentration RSD | 0.8 % | 0.3 % | 2.2 % | 3.5 % | 2.4 % | 0.4 % | 169.5 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-1 WG2010915
Analysis started at: 12/19/2024 8:03:49 PM
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 | 0.0003 ppm | -0.0032 ppm | 0.0008 ppm | 0.0004 ppm | 0.0001 ppm | 0.0000 ppm | 0.0487 ppm |
| Concentration per Run 1 | 0.0003 ppm | -0.0036 ppm | 0.0003 ppm | 0.0004 ppm | 0.0002 ppm | 0.0000 ppm | 0.0556 ppm |
| Concentration per Run 2 | 0.0004 ppm | -0.0010 ppm | 0.0001 ppm | 0.0005 ppm | 0.0000 ppm | 0.0000 ppm | 0.0454 ppm |
| Concentration per Run 3 | 0.0002 ppm | -0.0052 ppm | 0.0019 ppm | 0.0004 ppm | 0.0001 ppm | 0.0000 ppm | 0.0451 ppm |
| Recovery Percentage 1 | 4.432 % | -3.238 % | 15.626 % | 1.389 % | 0.777 % | -0.482 % | 48.694 % |
| Concentration RSD | 40.5 % | 65.8 % | 126.5 % | 15.6 % | 93.5 % | 43.3 % | 12.3 % |

| | 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 | 0.0005 ppm | 0.0003 ppm | 0.0236 ppm | 0.0008 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0001 ppm | -0.0004 ppm | 0.0005 ppm | 0.0012 ppm | 0.0193 ppm | -0.0001 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | 0.0003 ppm | 0.0006 ppm | 0.0002 ppm | 0.0413 ppm | 0.0026 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0000 ppm | 0.0001 ppm | 0.0006 ppm | -0.0007 ppm | 0.0103 ppm | 0.0001 ppm |
| Recovery Percentage 1 | 0.617 % | -0.211 % | -0.023 % | 5.453 % | 0.520 % | 0.945 % | 0.843 % |
| Concentration RSD | 65.1 % | 149.9 % | 15,975.7 % | 8.8 % | 365.1 % | 67.5 % | 181.4 % |

| | 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 | 0.0000 ppm | 0.0044 ppm | 0.0003 ppm | 0.0005 ppm | -0.0007 ppm | 0.0000 ppm |
| Concentration per Run 1 | -0.0004 ppm | 0.0000 ppm | 0.0027 ppm | 0.0002 ppm | 0.0004 ppm | -0.0010 ppm | 0.0007 ppm |
| Concentration per Run 2 | 0.0003 ppm | -0.0001 ppm | 0.0061 ppm | 0.0002 ppm | 0.0001 ppm | -0.0004 ppm | -0.0008 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0000 ppm | 0.0042 ppm | 0.0005 ppm | 0.0010 ppm | -0.0006 ppm | 0.0001 ppm |
| Recovery Percentage 1 | -1.211 % | -0.077 % | 0.218 % | 1.137 % | 4.875 % | -1.310 % | -0.157 % |
| Concentration RSD | 299.7 % | 114.7 % | 39.0 % | 52.9 % | 96.3 % | 50.1 % | 4,691.1 % |

| | 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 | 0.0054 ppm | 0.0000 ppm | 0.0002 ppm | 0.0000 ppm | 0.0013 ppm | -0.0001 ppm | -0.0007 ppm |
| Concentration per Run 1 | 0.0058 ppm | -0.0003 ppm | 0.0001 ppm | 0.0001 ppm | 0.0008 ppm | 0.0000 ppm | -0.0007 ppm |
| Concentration per Run 2 | 0.0052 ppm | 0.0000 ppm | 0.0002 ppm | 0.0000 ppm | 0.0019 ppm | -0.0002 ppm | -0.0007 ppm |
| Concentration per Run 3 | 0.0052 ppm | 0.0002 ppm | 0.0002 ppm | 0.0000 ppm | 0.0013 ppm | 0.0000 ppm | -0.0007 ppm |
| Recovery Percentage 1 | 1.085 % | -0.056 % | 1.535 % | 0.473 % | 6.743 % | -0.868 % | -13.971 % |
| Concentration RSD | 6.3 % | 812.4 % | 33.6 % | 205.4 % | 40.7 % | 148.7 % | 5.1 % |

| | 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 | 94.8882 % | 108.3947 % | 110.8366 % | 93.2526 % | 102.3108 % | 103.0611 % | 0.0006 ppm |
| Concentration per Run 1 | 91.3953 % | 108.8832 % | 110.7095 % | 84.0192 % | 101.1888 % | 102.9067 % | 0.0009 ppm |
| Concentration per Run 2 | 97.0896 % | 107.8760 % | 111.4227 % | 96.3292 % | 102.9432 % | 102.6397 % | 0.0009 ppm |
| Concentration per Run 3 | 96.1798 % | 108.4247 % | 110.3774 % | 99.4094 % | 102.8004 % | 103.6370 % | 0.0002 ppm |
| Recovery Percentage 1 | | | | | | | 6.444 % |
| Concentration RSD | 3.2 % | 0.5 % | 0.5 % | 8.7 % | 1.0 % | 0.5 % | 61.9 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-2 WG2010915
Analysis started at: 12/19/2024 8:10:33 PM
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 | 0.0523 ppm | 2.2625 ppm | 0.1218 ppm | 1.0058 ppm | 2.2314 ppm | 0.0546 ppm | 11.1255 ppm |
| Concentration per Run 1 | 0.0528 ppm | 2.3378 ppm | 0.1215 ppm | 0.9962 ppm | 2.3887 ppm | 0.0584 ppm | 11.9580 ppm |
| Concentration per Run 2 | 0.0524 ppm | 2.2310 ppm | 0.1220 ppm | 1.0211 ppm | 2.1883 ppm | 0.0535 ppm | 10.8941 ppm |
| Concentration per Run 3 | 0.0518 ppm | 2.2188 ppm | 0.1219 ppm | 1.0001 ppm | 2.1173 ppm | 0.0518 ppm | 10.5245 ppm |
| Concentration RSD | 0.9 % | 2.9 % | 0.2 % | 1.3 % | 6.3 % | 6.3 % | 6.7 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0558 ppm | 0.5509 ppm | 0.1988 ppm | 0.2765 ppm | 1.0491 ppm | 11.1847 ppm | 10.0710 ppm |
| Concentration per Run 1 | 0.0556 ppm | 0.5470 ppm | 0.1987 ppm | 0.2772 ppm | 1.1189 ppm | 11.9769 ppm | 10.1043 ppm |
| Concentration per Run 2 | 0.0565 ppm | 0.5586 ppm | 0.1999 ppm | 0.2764 ppm | 1.0284 ppm | 10.9905 ppm | 10.0795 ppm |
| Concentration per Run 3 | 0.0553 ppm | 0.5471 ppm | 0.1978 ppm | 0.2759 ppm | 0.9999 ppm | 10.5867 ppm | 10.0291 ppm |
| Concentration RSD | 1.1 % | 1.2 % | 0.5 % | 0.3 % | 5.9 % | 6.4 % | 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 | 0.5296 ppm | 1.0078 ppm | 11.2708 ppm | 0.5163 ppm | 0.5805 ppm | 0.5384 ppm | 0.1308 ppm |
| Concentration per Run 1 | 0.5696 ppm | 0.9936 ppm | 11.6761 ppm | 0.5133 ppm | 0.5774 ppm | 0.5328 ppm | 0.1300 ppm |
| Concentration per Run 2 | 0.5179 ppm | 1.0232 ppm | 11.0653 ppm | 0.5243 ppm | 0.5883 ppm | 0.5455 ppm | 0.1331 ppm |
| Concentration per Run 3 | 0.5013 ppm | 1.0066 ppm | 11.0711 ppm | 0.5113 ppm | 0.5759 ppm | 0.5368 ppm | 0.1294 ppm |
| Concentration RSD | 6.7 % | 1.5 % | 3.1 % | 1.4 % | 1.2 % | 1.2 % | 1.5 % |

| | 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 | 1.0033 ppm | 0.9770 ppm | 1.0564 ppm | 1.0331 ppm | 0.1275 ppm | 0.5080 ppm | 0.5541 ppm |
| Concentration per Run 1 | 0.9954 ppm | 0.9699 ppm | 1.1319 ppm | 1.0355 ppm | 0.1265 ppm | 0.5096 ppm | 0.5525 ppm |
| Concentration per Run 2 | 1.0178 ppm | 0.9922 ppm | 1.0355 ppm | 1.0329 ppm | 0.1286 ppm | 0.5085 ppm | 0.5612 ppm |
| Concentration per Run 3 | 0.9967 ppm | 0.9687 ppm | 1.0019 ppm | 1.0307 ppm | 0.1275 ppm | 0.5058 ppm | 0.5485 ppm |
| Concentration RSD | 1.3 % | 1.4 % | 6.4 % | 0.2 % | 0.8 % | 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 | 94.0067 % | 105.8938 % | 106.7997 % | 100.5326 % | 96.4958 % | 105.3537 % | -0.0002 ppm |
| Concentration per Run 1 | 91.0274 % | 106.0887 % | 108.0833 % | 94.0233 % | 97.3097 % | 105.3179 % | -0.0002 ppm |
| Concentration per Run 2 | 95.5704 % | 105.5675 % | 104.6805 % | 102.2139 % | 94.9683 % | 105.1490 % | 0.0003 ppm |
| Concentration per Run 3 | 95.4221 % | 106.0252 % | 107.6353 % | 105.3607 % | 97.2094 % | 105.5941 % | -0.0009 ppm |
| Concentration RSD | 2.7 % | 0.3 % | 1.7 % | 5.8 % | 1.4 % | 0.2 % | 254.0 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473538-02 WG2010915
Analysis started at: 12/19/2024 8:16:55 PM
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 | 0.0002 ppm | 0.3285 ppm | 0.0017 ppm | 0.0201 ppm | 0.0549 ppm | 0.0001 ppm | 17.8927 ppm |
| Concentration per Run 1 | 0.0005 ppm | 0.3406 ppm | 0.0001 ppm | 0.0202 ppm | 0.0600 ppm | 0.0001 ppm | 19.6960 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.3266 ppm | 0.0028 ppm | 0.0204 ppm | 0.0534 ppm | 0.0001 ppm | 17.4670 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.3183 ppm | 0.0023 ppm | 0.0197 ppm | 0.0512 ppm | 0.0001 ppm | 16.5151 ppm |
| Concentration RSD | 96.0 % | 3.4 % | 82.3 % | 1.9 % | 8.4 % | 38.1 % | 9.1 % |

| | 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 | 0.0003 ppm | 0.0021 ppm | 0.0014 ppm | 0.8680 ppm | 1.4876 ppm | 7.1440 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0003 ppm | 0.0022 ppm | 0.0014 ppm | 0.9429 ppm | 1.6006 ppm | 7.1620 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0004 ppm | 0.0021 ppm | 0.0014 ppm | 0.8469 ppm | 1.4785 ppm | 7.1600 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0003 ppm | 0.0019 ppm | 0.0013 ppm | 0.8143 ppm | 1.3836 ppm | 7.1101 ppm |
| Concentration RSD | 33.2 % | 25.1 % | 7.2 % | 7.7 % | 7.7 % | 7.3 % | 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 | 0.0198 ppm | 0.0020 ppm | 19.9357 ppm | 0.0011 ppm | -0.0019 ppm | 0.0011 ppm | -0.0007 ppm |
| Concentration per Run 1 | 0.0220 ppm | 0.0022 ppm | 20.5564 ppm | 0.0013 ppm | -0.0020 ppm | 0.0014 ppm | -0.0018 ppm |
| Concentration per Run 2 | 0.0191 ppm | 0.0019 ppm | 19.6544 ppm | 0.0009 ppm | -0.0013 ppm | 0.0012 ppm | 0.0003 ppm |
| Concentration per Run 3 | 0.0183 ppm | 0.0018 ppm | 19.5963 ppm | 0.0012 ppm | -0.0024 ppm | 0.0006 ppm | -0.0005 ppm |
| Concentration RSD | 9.9 % | 10.0 % | 2.7 % | 15.7 % | 27.1 % | 39.7 % | 154.5 % |

| | 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 | 10.3680 ppm | 0.0013 ppm | 0.1023 ppm | 0.0099 ppm | 0.0008 ppm | 0.0016 ppm | 0.0028 ppm |
| Concentration per Run 1 | 10.3770 ppm | 0.0017 ppm | 0.1116 ppm | 0.0100 ppm | 0.0015 ppm | 0.0016 ppm | 0.0028 ppm |
| Concentration per Run 2 | 10.3741 ppm | 0.0013 ppm | 0.0998 ppm | 0.0099 ppm | -0.0007 ppm | 0.0016 ppm | 0.0028 ppm |
| Concentration per Run 3 | 10.3530 ppm | 0.0009 ppm | 0.0955 ppm | 0.0099 ppm | 0.0014 ppm | 0.0016 ppm | 0.0028 ppm |
| Concentration RSD | 0.1 % | 31.0 % | 8.1 % | 0.6 % | 165.5 % | 1.6 % | 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 | 95.4354 % | 106.3978 % | 107.8554 % | 94.4675 % | 97.6263 % | 103.3134 % | 0.0030 ppm |
| Concentration per Run 1 | 92.2078 % | 106.2860 % | 108.6952 % | 85.9984 % | 97.9726 % | 102.7573 % | 0.0039 ppm |
| Concentration per Run 2 | 96.4172 % | 106.0973 % | 107.3395 % | 96.0578 % | 97.3959 % | 103.1103 % | 0.0029 ppm |
| Concentration per Run 3 | 97.6811 % | 106.8100 % | 107.5315 % | 101.3465 % | 97.5106 % | 104.0725 % | 0.0021 ppm |
| Concentration RSD | 3.0 % | 0.3 % | 0.7 % | 8.3 % | 0.3 % | 0.7 % | 30.0 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473538-03 WG2010915
Analysis started at: 12/19/2024 8:23:35 PM
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 | 0.0002 ppm | 0.0003 ppm | 0.0017 ppm | 0.0262 ppm | 0.0194 ppm | 0.0000 ppm | 16.6288 ppm |
| Concentration per Run 1 | 0.0006 ppm | 0.0018 ppm | 0.0014 ppm | 0.0266 ppm | 0.0199 ppm | 0.0000 ppm | 16.9558 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0021 ppm | 0.0010 ppm | 0.0260 ppm | 0.0199 ppm | 0.0000 ppm | 17.1426 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0011 ppm | 0.0025 ppm | 0.0261 ppm | 0.0185 ppm | 0.0000 ppm | 15.7881 ppm |
| Concentration RSD | 231.1 % | 723.2 % | 46.6 % | 1.3 % | 4.1 % | 3,694.6 % | 4.4 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0001 ppm | -0.0003 ppm | 0.0021 ppm | 0.0007 ppm | 0.1828 ppm | 1.6761 ppm | 6.3557 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0003 ppm | 0.0024 ppm | 0.0007 ppm | 0.1843 ppm | 1.7044 ppm | 6.4418 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0004 ppm | 0.0020 ppm | 0.0006 ppm | 0.1880 ppm | 1.7128 ppm | 6.3355 ppm |
| Concentration per Run 3 | 0.0001 ppm | -0.0002 ppm | 0.0020 ppm | 0.0007 ppm | 0.1761 ppm | 1.6111 ppm | 6.2899 ppm |
| Concentration RSD | 19.7 % | 31.6 % | 11.3 % | 8.2 % | 3.3 % | 3.4 % | 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 | 0.1114 ppm | 0.0005 ppm | 22.5562 ppm | 0.0013 ppm | -0.0021 ppm | 0.0003 ppm | -0.0003 ppm |
| Concentration per Run 1 | 0.1135 ppm | 0.0007 ppm | 21.8027 ppm | 0.0011 ppm | -0.0023 ppm | 0.0009 ppm | 0.0016 ppm |
| Concentration per Run 2 | 0.1145 ppm | 0.0005 ppm | 23.6206 ppm | 0.0015 ppm | -0.0022 ppm | 0.0003 ppm | -0.0010 ppm |
| Concentration per Run 3 | 0.1061 ppm | 0.0003 ppm | 22.2452 ppm | 0.0015 ppm | -0.0018 ppm | -0.0002 ppm | -0.0015 ppm |
| Concentration RSD | 4.1 % | 38.9 % | 4.2 % | 15.4 % | 12.7 % | 152.4 % | 605.9 % |

| | 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 | 8.8031 ppm | 0.0006 ppm | 0.0916 ppm | 0.0006 ppm | 0.0015 ppm | 0.0000 ppm | 0.0078 ppm |
| Concentration per Run 1 | 8.8625 ppm | 0.0007 ppm | 0.0933 ppm | 0.0004 ppm | 0.0013 ppm | -0.0001 ppm | 0.0079 ppm |
| Concentration per Run 2 | 8.7970 ppm | 0.0006 ppm | 0.0941 ppm | 0.0004 ppm | 0.0014 ppm | 0.0000 ppm | 0.0078 ppm |
| Concentration per Run 3 | 8.7497 ppm | 0.0003 ppm | 0.0873 ppm | 0.0010 ppm | 0.0017 ppm | 0.0001 ppm | 0.0077 ppm |
| Concentration RSD | 0.6 % | 38.3 % | 4.1 % | 54.8 % | 14.7 % | 1,196.0 % | 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 | 95.3841 % | 105.7509 % | 106.7949 % | 94.3986 % | 97.0182 % | 102.0810 % | 0.0028 ppm |
| Concentration per Run 1 | 98.8827 % | 105.7550 % | 106.5462 % | 92.3400 % | 96.3487 % | 101.1982 % | 0.0030 ppm |
| Concentration per Run 2 | 90.9651 % | 105.8782 % | 107.0758 % | 91.9570 % | 97.1504 % | 102.2951 % | 0.0031 ppm |
| Concentration per Run 3 | 96.3045 % | 105.6196 % | 106.7628 % | 98.8989 % | 97.5555 % | 102.7498 % | 0.0023 ppm |
| Concentration RSD | 4.2 % | 0.1 % | 0.2 % | 4.1 % | 0.6 % | 0.8 % | 15.3 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473538-01 WG2010915
Analysis started at: 12/19/2024 8:30:14 PM
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 | 0.0002 ppm | 0.0188 ppm | 0.0017 ppm | 0.0207 ppm | 0.0308 ppm | 0.0000 ppm | 38.8621 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0173 ppm | 0.0029 ppm | 0.0206 ppm | 0.0337 ppm | 0.0000 ppm | 42.6327 ppm |
| Concentration per Run 2 | 0.0007 ppm | 0.0210 ppm | 0.0005 ppm | 0.0209 ppm | 0.0302 ppm | 0.0000 ppm | 37.7039 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0181 ppm | 0.0018 ppm | 0.0208 ppm | 0.0285 ppm | 0.0000 ppm | 36.2497 ppm |
| Concentration RSD | 180.0 % | 10.4 % | 69.1 % | 0.7 % | 8.5 % | 554.1 % | 8.6 % |

| | 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 | 0.0008 ppm | 0.0014 ppm | 0.0221 ppm | 1.5139 ppm | 7.0557 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0001 ppm | 0.0007 ppm | 0.0014 ppm | 0.0232 ppm | 1.6410 ppm | 7.0973 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0001 ppm | 0.0009 ppm | 0.0015 ppm | 0.0225 ppm | 1.5084 ppm | 7.0663 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0001 ppm | 0.0008 ppm | 0.0013 ppm | 0.0207 ppm | 1.3923 ppm | 7.0033 ppm |
| Concentration RSD | 811.0 % | 51.2 % | 12.9 % | 6.4 % | 5.8 % | 8.2 % | 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 | 0.0014 ppm | 0.0002 ppm | 3.3504 ppm | 0.0005 ppm | -0.0004 ppm | 0.0002 ppm | 0.0007 ppm |
| Concentration per Run 1 | 0.0016 ppm | 0.0002 ppm | 3.4421 ppm | 0.0004 ppm | 0.0001 ppm | 0.0007 ppm | 0.0015 ppm |
| Concentration per Run 2 | 0.0020 ppm | 0.0002 ppm | 3.3116 ppm | 0.0004 ppm | -0.0006 ppm | 0.0004 ppm | 0.0000 ppm |
| Concentration per Run 3 | 0.0008 ppm | 0.0004 ppm | 3.2975 ppm | 0.0006 ppm | -0.0007 ppm | -0.0004 ppm | 0.0005 ppm |
| Concentration RSD | 42.5 % | 41.2 % | 2.4 % | 23.3 % | 101.5 % | 228.3 % | 111.0 % |

| | 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 | 4.1348 ppm | 0.0002 ppm | 0.1593 ppm | 0.0011 ppm | -0.0001 ppm | 0.0003 ppm | 0.0030 ppm |
| Concentration per Run 1 | 4.1448 ppm | 0.0005 ppm | 0.1740 ppm | 0.0011 ppm | 0.0005 ppm | 0.0003 ppm | 0.0032 ppm |
| Concentration per Run 2 | 4.1391 ppm | 0.0007 ppm | 0.1557 ppm | 0.0011 ppm | -0.0016 ppm | 0.0002 ppm | 0.0030 ppm |
| Concentration per Run 3 | 4.1205 ppm | -0.0006 ppm | 0.1483 ppm | 0.0011 ppm | 0.0008 ppm | 0.0004 ppm | 0.0030 ppm |
| Concentration RSD | 0.3 % | 332.5 % | 8.3 % | 1.5 % | 1,228.6 % | 26.5 % | 4.0 % |

| | 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 | 97.0319 % | 107.0483 % | 107.4002 % | 93.7048 % | 97.1664 % | 102.9395 % | -0.0002 ppm |
| Concentration per Run 1 | 94.3583 % | 106.9139 % | 107.6100 % | 85.7103 % | 97.0035 % | 102.3161 % | -0.0002 ppm |
| Concentration per Run 2 | 98.5882 % | 107.2537 % | 107.2439 % | 95.5057 % | 96.8938 % | 103.0652 % | -0.0004 ppm |
| Concentration per Run 3 | 98.1491 % | 106.9775 % | 107.3469 % | 99.8985 % | 97.6019 % | 103.4372 % | 0.0001 ppm |
| Concentration RSD | 2.4 % | 0.2 % | 0.2 % | 7.8 % | 0.4 % | 0.6 % | 143.7 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2474304-01 WG2010915
Analysis started at: 12/19/2024 8:36:53 PM
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 | 0.0002 ppm | 4.9346 ppm | 0.0046 ppm | 0.0895 ppm | 0.0436 ppm | 0.0001 ppm | 40.8367 ppm |
| Concentration per Run 1 | -0.0001 ppm | 5.0993 ppm | 0.0035 ppm | 0.0899 ppm | 0.0476 ppm | 0.0001 ppm | 44.6151 ppm |
| Concentration per Run 2 | 0.0002 ppm | 4.8703 ppm | 0.0046 ppm | 0.0892 ppm | 0.0425 ppm | 0.0001 ppm | 39.8881 ppm |
| Concentration per Run 3 | 0.0006 ppm | 4.8343 ppm | 0.0056 ppm | 0.0894 ppm | 0.0406 ppm | 0.0001 ppm | 38.0069 ppm |
| Concentration RSD | 128.1 % | 2.9 % | 23.0 % | 0.4 % | 8.2 % | 26.5 % | 8.3 % |

| | 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 | 0.0006 ppm | 0.0070 ppm | 0.0183 ppm | 1.5176 ppm | 12.4119 ppm | 5.3603 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0005 ppm | 0.0074 ppm | 0.0186 ppm | 1.6426 ppm | 13.5861 ppm | 5.3939 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0008 ppm | 0.0067 ppm | 0.0185 ppm | 1.4878 ppm | 12.0990 ppm | 5.3431 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0006 ppm | 0.0069 ppm | 0.0179 ppm | 1.4224 ppm | 11.5506 ppm | 5.3439 ppm |
| Concentration RSD | 131.4 % | 25.4 % | 4.9 % | 2.0 % | 7.5 % | 8.5 % | 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 | 0.1760 ppm | 0.0057 ppm | 128.0636 ppm | 0.0054 ppm | 0.0289 ppm | 0.0015 ppm | -0.0005 ppm |
| Concentration per Run 1 | 0.1920 ppm | 0.0057 ppm | 132.4429 ppm | 0.0051 ppm | 0.0297 ppm | 0.0014 ppm | -0.0012 ppm |
| Concentration per Run 2 | 0.1716 ppm | 0.0059 ppm | 126.3829 ppm | 0.0054 ppm | 0.0280 ppm | 0.0013 ppm | 0.0009 ppm |
| Concentration per Run 3 | 0.1644 ppm | 0.0056 ppm | 125.3651 ppm | 0.0058 ppm | 0.0289 ppm | 0.0017 ppm | -0.0011 ppm |
| Concentration RSD | 8.2 % | 2.6 % | 3.0 % | 6.2 % | 2.9 % | 13.1 % | 247.7 % |

| | 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 | 10.7109 ppm | 0.0005 ppm | 0.2594 ppm | 0.0465 ppm | 0.0002 ppm | 0.0104 ppm | 0.0305 ppm |
| Concentration per Run 1 | 10.7788 ppm | 0.0001 ppm | 0.2827 ppm | 0.0464 ppm | -0.0005 ppm | 0.0105 ppm | 0.0308 ppm |
| Concentration per Run 2 | 10.7011 ppm | 0.0012 ppm | 0.2536 ppm | 0.0467 ppm | 0.0007 ppm | 0.0104 ppm | 0.0305 ppm |
| Concentration per Run 3 | 10.6529 ppm | 0.0003 ppm | 0.2419 ppm | 0.0466 ppm | 0.0005 ppm | 0.0103 ppm | 0.0303 ppm |
| Concentration RSD | 0.6 % | 111.8 % | 8.1 % | 0.4 % | 283.9 % | 0.9 % | 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 | 95.6131 % | 102.6797 % | 101.9182 % | 94.4302 % | 88.9134 % | 100.1166 % | 0.0106 ppm |
| Concentration per Run 1 | 93.2182 % | 102.5271 % | 102.1381 % | 86.9210 % | 88.5928 % | 99.6197 % | 0.0117 ppm |
| Concentration per Run 2 | 96.5722 % | 102.5313 % | 102.0027 % | 95.9202 % | 89.0094 % | 99.8597 % | 0.0096 ppm |
| Concentration per Run 3 | 97.0490 % | 102.9806 % | 101.6138 % | 100.4494 % | 89.1380 % | 100.8703 % | 0.0106 ppm |
| Concentration RSD | 2.2 % | 0.3 % | 0.3 % | 7.3 % | 0.3 % | 0.7 % | 10.1 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-3 WG2010915
Analysis started at: 12/19/2024 8:43:30 PM
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 | 0.0523 ppm | 7.3014 ppm | 0.1341 ppm | 1.1694 ppm | 2.3789 ppm | 0.0570 ppm | 50.6814 ppm |
| Concentration per Run 1 | 0.0523 ppm | 7.5722 ppm | 0.1349 ppm | 1.1688 ppm | 2.5902 ppm | 0.0624 ppm | 55.3724 ppm |
| Concentration per Run 2 | 0.0525 ppm | 7.1657 ppm | 0.1326 ppm | 1.1667 ppm | 2.3233 ppm | 0.0557 ppm | 49.5955 ppm |
| Concentration per Run 3 | 0.0522 ppm | 7.1665 ppm | 0.1347 ppm | 1.1726 ppm | 2.2231 ppm | 0.0530 ppm | 47.0765 ppm |
| Concentration RSD | 0.3 % | 3.2 % | 1.0 % | 0.3 % | 8.0 % | 8.5 % | 8.4 % |

| | 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 | 0.0551 ppm | 0.5517 ppm | 0.1973 ppm | 0.2864 ppm | 2.4795 ppm | 24.1410 ppm | 15.1032 ppm |
| Concentration per Run 1 | 0.0552 ppm | 0.5518 ppm | 0.1976 ppm | 0.2886 ppm | 2.6932 ppm | 26.2337 ppm | 15.1504 ppm |
| Concentration per Run 2 | 0.0551 ppm | 0.5505 ppm | 0.1976 ppm | 0.2863 ppm | 2.4283 ppm | 23.6023 ppm | 15.1388 ppm |
| Concentration per Run 3 | 0.0551 ppm | 0.5527 ppm | 0.1968 ppm | 0.2842 ppm | 2.3170 ppm | 22.5868 ppm | 15.0203 ppm |
| Concentration RSD | 0.1 % | 0.2 % | 0.2 % | 0.8 % | 7.8 % | 7.8 % | 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 | 0.7069 ppm | 1.0250 ppm | 141.8159 ppm | 0.5198 ppm | 0.6064 ppm | 0.5753 ppm | 0.1414 ppm |
| Concentration per Run 1 | 0.7700 ppm | 1.0152 ppm | 146.4875 ppm | 0.5196 ppm | 0.6050 ppm | 0.5753 ppm | 0.1439 ppm |
| Concentration per Run 2 | 0.6924 ppm | 1.0235 ppm | 139.3210 ppm | 0.5191 ppm | 0.6058 ppm | 0.5731 ppm | 0.1412 ppm |
| Concentration per Run 3 | 0.6582 ppm | 1.0363 ppm | 139.6394 ppm | 0.5209 ppm | 0.6085 ppm | 0.5776 ppm | 0.1391 ppm |
| Concentration RSD | 8.1 % | 1.0 % | 2.9 % | 0.2 % | 0.3 % | 0.4 % | 1.7 % |

| | 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 | 11.9248 ppm | 0.9726 ppm | 1.3634 ppm | 1.0716 ppm | 0.1264 ppm | 0.5066 ppm | 0.5673 ppm |
| Concentration per Run 1 | 11.9231 ppm | 0.9706 ppm | 1.4849 ppm | 1.0751 ppm | 0.1236 ppm | 0.5078 ppm | 0.5669 ppm |
| Concentration per Run 2 | 11.8985 ppm | 0.9715 ppm | 1.3311 ppm | 1.0723 ppm | 0.1270 ppm | 0.5067 ppm | 0.5671 ppm |
| Concentration per Run 3 | 11.9528 ppm | 0.9758 ppm | 1.2742 ppm | 1.0675 ppm | 0.1287 ppm | 0.5053 ppm | 0.5678 ppm |
| Concentration RSD | 0.2 % | 0.3 % | 8.0 % | 0.4 % | 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 | 94.1977 % | 102.5426 % | 101.0777 % | 96.9570 % | 87.8721 % | 101.1720 % | 0.0104 ppm |
| Concentration per Run 1 | 91.5242 % | 102.6944 % | 101.2894 % | 89.3104 % | 88.0061 % | 100.9471 % | 0.0118 ppm |
| Concentration per Run 2 | 95.2970 % | 102.1546 % | 101.2019 % | 98.2744 % | 88.0174 % | 100.8350 % | 0.0102 ppm |
| Concentration per Run 3 | 95.7720 % | 102.7789 % | 100.7418 % | 103.2864 % | 87.5927 % | 101.7338 % | 0.0094 ppm |
| Concentration RSD | 2.5 % | 0.3 % | 0.3 % | 7.3 % | 0.3 % | 0.5 % | 11.5 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-4 WG2010915
Analysis started at: 12/19/2024 8:49:51 PM
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 | 0.0003 ppm | 4.8871 ppm | 0.0038 ppm | 0.0886 ppm | 0.0425 ppm | 0.0000 ppm | 39.6907 ppm |
| Concentration per Run 1 | 0.0004 ppm | 5.0870 ppm | 0.0028 ppm | 0.0896 ppm | 0.0464 ppm | 0.0000 ppm | 43.3301 ppm |
| Concentration per Run 2 | -0.0001 ppm | 4.8016 ppm | 0.0037 ppm | 0.0882 ppm | 0.0414 ppm | 0.0000 ppm | 38.7806 ppm |
| Concentration per Run 3 | 0.0005 ppm | 4.7729 ppm | 0.0049 ppm | 0.0878 ppm | 0.0396 ppm | 0.0001 ppm | 36.9615 ppm |
| Concentration RSD | 116.5 % | 3.6 % | 27.3 % | 1.1 % | 8.3 % | 38.0 % | 8.3 % |

| | 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 | 0.0006 ppm | 0.0067 ppm | 0.0180 ppm | 1.5442 ppm | 12.0745 ppm | 5.1434 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0006 ppm | 0.0072 ppm | 0.0187 ppm | 1.6750 ppm | 13.1898 ppm | 5.3033 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0006 ppm | 0.0067 ppm | 0.0187 ppm | 1.5166 ppm | 11.7812 ppm | 5.2744 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0008 ppm | 0.0062 ppm | 0.0167 ppm | 1.4410 ppm | 11.2524 ppm | 4.8524 ppm |
| Concentration RSD | 135.8 % | 16.2 % | 7.0 % | 6.4 % | 7.7 % | 8.3 % | 4.9 % |

| | 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 | 0.1715 ppm | 0.0079 ppm | 126.1570 ppm | 0.0055 ppm | 0.0292 ppm | 0.0008 ppm | 0.0004 ppm |
| Concentration per Run 1 | 0.1867 ppm | 0.0083 ppm | 131.0819 ppm | 0.0056 ppm | 0.0296 ppm | 0.0010 ppm | 0.0018 ppm |
| Concentration per Run 2 | 0.1673 ppm | 0.0078 ppm | 124.0018 ppm | 0.0054 ppm | 0.0297 ppm | 0.0005 ppm | -0.0018 ppm |
| Concentration per Run 3 | 0.1604 ppm | 0.0076 ppm | 123.3872 ppm | 0.0055 ppm | 0.0282 ppm | 0.0009 ppm | 0.0012 ppm |
| Concentration RSD | 8.0 % | 5.0 % | 3.4 % | 1.6 % | 2.9 % | 36.1 % | 492.3 % |

| | 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 | 10.5492 ppm | 0.0022 ppm | 0.2514 ppm | 0.0478 ppm | 0.0000 ppm | 0.0099 ppm | 0.0299 ppm |
| Concentration per Run 1 | 10.6538 ppm | 0.0024 ppm | 0.2738 ppm | 0.0500 ppm | 0.0002 ppm | 0.0103 ppm | 0.0302 ppm |
| Concentration per Run 2 | 10.5191 ppm | 0.0023 ppm | 0.2453 ppm | 0.0488 ppm | -0.0009 ppm | 0.0102 ppm | 0.0300 ppm |
| Concentration per Run 3 | 10.4748 ppm | 0.0018 ppm | 0.2351 ppm | 0.0448 ppm | 0.0006 ppm | 0.0094 ppm | 0.0296 ppm |
| Concentration RSD | 0.9 % | 14.4 % | 8.0 % | 5.6 % | 3,455.2 % | 5.0 % | 0.9 % |

| | 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 | 95.1046 % | 105.1344 % | 102.5350 % | 95.0127 % | 89.4323 % | 102.6398 % | 0.0106 ppm |
| Concentration per Run 1 | 91.8963 % | 103.5524 % | 102.6595 % | 87.1614 % | 88.7938 % | 99.9893 % | 0.0127 ppm |
| Concentration per Run 2 | 96.2843 % | 103.5251 % | 102.4538 % | 96.6315 % | 89.6336 % | 100.5830 % | 0.0095 ppm |
| Concentration per Run 3 | 97.1334 % | 108.3256 % | 102.4918 % | 101.2453 % | 89.8695 % | 107.3472 % | 0.0097 ppm |
| Concentration RSD | 3.0 % | 2.6 % | 0.1 % | 7.6 % | 0.6 % | 4.0 % | 16.8 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-5 WG2010915
Analysis started at: 12/19/2024 8:56:29 PM
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 | 0.0516 ppm | 7.2317 ppm | 0.1328 ppm | 1.1954 ppm | 2.4412 ppm | 0.0590 ppm | 51.0554 ppm |
| Concentration per Run 1 | 0.0513 ppm | 7.8649 ppm | 0.1332 ppm | 1.1959 ppm | 2.7210 ppm | 0.0659 ppm | 56.6906 ppm |
| Concentration per Run 2 | 0.0520 ppm | 6.8919 ppm | 0.1324 ppm | 1.2011 ppm | 2.3547 ppm | 0.0571 ppm | 49.4956 ppm |
| Concentration per Run 3 | 0.0517 ppm | 6.9383 ppm | 0.1327 ppm | 1.1891 ppm | 2.2480 ppm | 0.0542 ppm | 46.9799 ppm |
| Concentration RSD | 0.7 % | 7.6 % | 0.3 % | 0.5 % | 10.2 % | 10.4 % | 9.9 % |

| | 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 | 0.0540 ppm | 0.5515 ppm | 0.1984 ppm | 0.2871 ppm | 2.5697 ppm | 24.7254 ppm | 15.3339 ppm |
| Concentration per Run 1 | 0.0541 ppm | 0.5522 ppm | 0.2000 ppm | 0.2859 ppm | 2.8331 ppm | 27.5130 ppm | 15.3532 ppm |
| Concentration per Run 2 | 0.0539 ppm | 0.5519 ppm | 0.1986 ppm | 0.2880 ppm | 2.4947 ppm | 23.7515 ppm | 15.3673 ppm |
| Concentration per Run 3 | 0.0540 ppm | 0.5503 ppm | 0.1965 ppm | 0.2875 ppm | 2.3813 ppm | 22.9116 ppm | 15.2813 ppm |
| Concentration RSD | 0.1 % | 0.2 % | 0.9 % | 0.4 % | 9.1 % | 9.9 % | 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 | 0.7359 ppm | 1.0563 ppm | 141.5250 ppm | 0.5341 ppm | 0.6064 ppm | 0.5633 ppm | 0.1417 ppm |
| Concentration per Run 1 | 0.8193 ppm | 1.0478 ppm | 153.8389 ppm | 0.5342 ppm | 0.6077 ppm | 0.5600 ppm | 0.1418 ppm |
| Concentration per Run 2 | 0.7115 ppm | 1.0600 ppm | 134.5975 ppm | 0.5350 ppm | 0.6064 ppm | 0.5669 ppm | 0.1405 ppm |
| Concentration per Run 3 | 0.6771 ppm | 1.0611 ppm | 136.1386 ppm | 0.5331 ppm | 0.6051 ppm | 0.5629 ppm | 0.1429 ppm |
| Concentration RSD | 10.1 % | 0.7 % | 7.6 % | 0.2 % | 0.2 % | 0.6 % | 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 | 11.7036 ppm | 1.0191 ppm | 1.4351 ppm | 1.1076 ppm | 0.1262 ppm | 0.5085 ppm | 0.5810 ppm |
| Concentration per Run 1 | 11.7252 ppm | 1.0220 ppm | 1.5990 ppm | 1.1119 ppm | 0.1251 ppm | 0.5106 ppm | 0.5822 ppm |
| Concentration per Run 2 | 11.7438 ppm | 1.0191 ppm | 1.3841 ppm | 1.1092 ppm | 0.1261 ppm | 0.5087 ppm | 0.5800 ppm |
| Concentration per Run 3 | 11.6420 ppm | 1.0162 ppm | 1.3222 ppm | 1.1018 ppm | 0.1273 ppm | 0.5061 ppm | 0.5807 ppm |
| Concentration RSD | 0.5 % | 0.3 % | 10.1 % | 0.5 % | 0.9 % | 0.5 % | 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 | 92.4675 % | 102.9648 % | 101.6219 % | 95.7170 % | 88.6775 % | 101.7199 % | 0.0111 ppm |
| Concentration per Run 1 | 85.9041 % | 103.4255 % | 102.1045 % | 86.6203 % | 88.8128 % | 101.9596 % | 0.0125 ppm |
| Concentration per Run 2 | 95.9600 % | 102.8645 % | 101.2267 % | 97.9449 % | 88.2222 % | 101.6152 % | 0.0107 ppm |
| Concentration per Run 3 | 95.5385 % | 102.6044 % | 101.5345 % | 102.5859 % | 88.9975 % | 101.5850 % | 0.0101 ppm |
| Concentration RSD | 6.2 % | 0.4 % | 0.4 % | 8.6 % | 0.5 % | 0.2 % | 11.0 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-6d5 WG2010915
Analysis started at: 12/19/2024 9:02:51 PM
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 | 0.0002 ppm | 0.9845 ppm | 0.0014 ppm | 0.0196 ppm | 0.0082 ppm | 0.0000 ppm | 7.8443 ppm |
| Concentration per Run 1 | 0.0002 ppm | 1.0114 ppm | 0.0010 ppm | 0.0196 ppm | 0.0089 ppm | 0.0001 ppm | 8.5272 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.9661 ppm | 0.0020 ppm | 0.0196 ppm | 0.0081 ppm | 0.0000 ppm | 7.6390 ppm |
| Concentration per Run 3 | 0.0003 ppm | 0.9759 ppm | 0.0011 ppm | 0.0198 ppm | 0.0078 ppm | 0.0000 ppm | 7.3668 ppm |
| Concentration RSD | 20.3 % | 2.4 % | 40.4 % | 0.5 % | 7.2 % | 128.9 % | 7.7 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0000 ppm | 0.0001 ppm | 0.0011 ppm | 0.0037 ppm | 0.2969 ppm | 2.3164 ppm | 1.0769 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0000 ppm | 0.0014 ppm | 0.0039 ppm | 0.3206 ppm | 2.4930 ppm | 1.0748 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0001 ppm | 0.0008 ppm | 0.0035 ppm | 0.2916 ppm | 2.2701 ppm | 1.0757 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0002 ppm | 0.0012 ppm | 0.0037 ppm | 0.2786 ppm | 2.1862 ppm | 1.0803 ppm |
| Concentration RSD | 56.1 % | 98.8 % | 27.4 % | 5.3 % | 7.2 % | 6.8 % | 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 | 0.0333 ppm | 0.0036 ppm | 25.1669 ppm | 0.0011 ppm | 0.0062 ppm | 0.0016 ppm | -0.0008 ppm |
| Concentration per Run 1 | 0.0364 ppm | 0.0039 ppm | 25.8176 ppm | 0.0013 ppm | 0.0071 ppm | 0.0018 ppm | -0.0001 ppm |
| Concentration per Run 2 | 0.0321 ppm | 0.0035 ppm | 24.8561 ppm | 0.0008 ppm | 0.0062 ppm | 0.0019 ppm | -0.0013 ppm |
| Concentration per Run 3 | 0.0313 ppm | 0.0033 ppm | 24.8270 ppm | 0.0011 ppm | 0.0053 ppm | 0.0012 ppm | -0.0010 ppm |
| Concentration RSD | 8.2 % | 8.8 % | 2.2 % | 25.7 % | 14.2 % | 24.5 % | 81.0 % |

| | 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 | 2.0133 ppm | 0.0026 ppm | 0.0494 ppm | 0.0094 ppm | 0.0007 ppm | 0.0019 ppm | 0.0055 ppm |
| Concentration per Run 1 | 2.0024 ppm | 0.0029 ppm | 0.0532 ppm | 0.0095 ppm | 0.0005 ppm | 0.0019 ppm | 0.0055 ppm |
| Concentration per Run 2 | 2.0172 ppm | 0.0026 ppm | 0.0485 ppm | 0.0096 ppm | 0.0004 ppm | 0.0019 ppm | 0.0054 ppm |
| Concentration per Run 3 | 2.0202 ppm | 0.0024 ppm | 0.0464 ppm | 0.0091 ppm | 0.0013 ppm | 0.0020 ppm | 0.0055 ppm |
| Concentration RSD | 0.5 % | 9.2 % | 7.0 % | 3.0 % | 66.2 % | 4.3 % | 1.3 % |

| | 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 | 95.6058 % | 106.1654 % | 106.7167 % | 99.8976 % | 97.9368 % | 105.2095 % | 0.0018 ppm |
| Concentration per Run 1 | 92.6028 % | 105.3961 % | 106.9457 % | 92.0359 % | 98.5806 % | 104.2597 % | 0.0020 ppm |
| Concentration per Run 2 | 97.2737 % | 106.8044 % | 106.9598 % | 102.2534 % | 97.6926 % | 105.8325 % | 0.0015 ppm |
| Concentration per Run 3 | 96.9408 % | 106.2957 % | 106.2448 % | 105.4036 % | 97.5371 % | 105.5363 % | 0.0020 ppm |
| Concentration RSD | 2.7 % | 0.7 % | 0.4 % | 7.0 % | 0.6 % | 0.8 % | 15.5 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 9:09:30 PM
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 | 0.4690 ppm | 0.5005 ppm | 0.4616 ppm | 0.5001 ppm | 0.4839 ppm | 0.4811 ppm | 0.4984 ppm |
| Concentration per Run 1 | 0.4695 ppm | 0.5117 ppm | 0.4649 ppm | 0.5038 ppm | 0.5055 ppm | 0.5042 ppm | 0.5218 ppm |
| Concentration per Run 2 | 0.4685 ppm | 0.4956 ppm | 0.4613 ppm | 0.4986 ppm | 0.4766 ppm | 0.4735 ppm | 0.4916 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.4943 ppm | 0.4586 ppm | 0.4979 ppm | 0.4695 ppm | 0.4654 ppm | 0.4817 ppm |
| Recovery Percentage 1 | 93.802 % | 100.108 % | 92.321 % | 100.017 % | 96.775 % | 96.214 % | 99.675 % |
| Concentration RSD | 0.1 % | 1.9 % | 0.7 % | 0.7 % | 3.9 % | 4.3 % | 4.2 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.4758 ppm | 0.5167 ppm | 0.4544 ppm | 0.4649 ppm | 0.4659 ppm | 5.0769 ppm | 0.4809 ppm |
| Concentration per Run 1 | 0.4777 ppm | 0.5192 ppm | 0.4556 ppm | 0.4640 ppm | 0.4877 ppm | 5.2953 ppm | 0.4830 ppm |
| Concentration per Run 2 | 0.4755 ppm | 0.5160 ppm | 0.4532 ppm | 0.4657 ppm | 0.4588 ppm | 5.0228 ppm | 0.4788 ppm |
| Concentration per Run 3 | 0.4743 ppm | 0.5149 ppm | 0.0000 ppm | 0.0000 ppm | 0.4513 ppm | 4.9126 ppm | 0.0000 ppm |
| Recovery Percentage 1 | 95.160 % | 103.340 % | 90.879 % | 92.975 % | 93.190 % | 101.538 % | 96.186 % |
| Concentration RSD | 0.4 % | 0.4 % | 0.4 % | 0.3 % | 4.1 % | 3.9 % | 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 | 0.4657 ppm | 0.4910 ppm | 10.5591 ppm | 0.4935 ppm | 0.5083 ppm | 0.5194 ppm | 0.5070 ppm |
| Concentration per Run 1 | 0.4884 ppm | 0.4928 ppm | 10.8572 ppm | 0.4961 ppm | 0.5121 ppm | 0.5238 ppm | 0.5121 ppm |
| Concentration per Run 2 | 0.4575 ppm | 0.4898 ppm | 10.4269 ppm | 0.4916 ppm | 0.5063 ppm | 0.5177 ppm | 0.5026 ppm |
| Concentration per Run 3 | 0.4512 ppm | 0.4904 ppm | 10.3931 ppm | 0.4928 ppm | 0.5066 ppm | 0.5166 ppm | 0.5063 ppm |
| Recovery Percentage 1 | 93.138 % | 98.199 % | 105.591 % | 98.695 % | 101.668 % | 103.874 % | 101.402 % |
| Concentration RSD | 4.3 % | 0.3 % | 2.5 % | 0.5 % | 0.6 % | 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 | 5.7469 ppm | 0.4844 ppm | 0.5012 ppm | 0.4933 ppm | 0.4983 ppm | 0.4646 ppm | 0.5106 ppm |
| Concentration per Run 1 | 5.7905 ppm | 0.4869 ppm | 0.5239 ppm | 0.4942 ppm | 0.5009 ppm | 0.4649 ppm | 0.5116 ppm |
| Concentration per Run 2 | 5.7303 ppm | 0.4843 ppm | 0.4933 ppm | 0.4924 ppm | 0.4979 ppm | 0.4643 ppm | 0.5105 ppm |
| Concentration per Run 3 | 5.7198 ppm | 0.4821 ppm | 0.4865 ppm | 0.0000 ppm | 0.4960 ppm | 0.0000 ppm | 0.5098 ppm |
| Recovery Percentage 1 | 109.465 % | 96.889 % | 100.244 % | 98.661 % | 99.654 % | 92.923 % | 102.125 % |
| Concentration RSD | 0.7 % | 0.5 % | 4.0 % | 0.2 % | 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 | 94.0372 % | 107.3199 % | 107.6652 % | 106.1635 % | 97.9448 % | 106.0654 % | 0.5087 ppm |
| Concentration per Run 1 | 91.5025 % | 106.0006 % | 107.2094 % | 101.3753 % | 96.9536 % | 106.3788 % | 0.5307 ppm |
| Concentration per Run 2 | 94.8794 % | 105.3065 % | 107.8484 % | 107.2137 % | 98.3955 % | 105.7520 % | 0.5021 ppm |
| Concentration per Run 3 | 95.7297 % | 110.6528 % | 107.9376 % | 109.9016 % | 98.4854 % | 0.0000 % | 0.4934 ppm |
| Recovery Percentage 1 | | | | | | | 101.744 % |
| Concentration RSD | 2.4 % | 2.7 % | 0.4 % | 4.1 % | 0.9 % | 0.4 % | 3.8 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/19/2024 9:15:56 PM
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 | -0.0029 ppm | 0.0001 ppm | 0.0025 ppm | 0.0000 ppm | 0.0000 ppm | 0.0220 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0019 ppm | -0.0004 ppm | 0.0026 ppm | 0.0001 ppm | 0.0000 ppm | 0.0203 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0045 ppm | 0.0004 ppm | 0.0025 ppm | -0.0001 ppm | 0.0000 ppm | 0.0220 ppm |
| Concentration per Run 3 | 0.0002 ppm | -0.0061 ppm | 0.0002 ppm | 0.0024 ppm | -0.0001 ppm | -0.0001 ppm | 0.0237 ppm |
| Recovery Percentage 1 | 1.651 % | -2.906 % | 1.475 % | 8.375 % | -0.226 % | -0.601 % | 22.012 % |
| Concentration RSD | 27.2 % | 147.0 % | 532.7 % | 3.4 % | 626.3 % | 121.7 % | 7.7 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0000 ppm | -0.0001 ppm | -0.0001 ppm | 0.0001 ppm | -0.0004 ppm | -0.0096 ppm | -0.0002 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0001 ppm | 0.0001 ppm | 0.0002 ppm | 0.0026 ppm | -0.0247 ppm | 0.0003 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | -0.0004 ppm | 0.0002 ppm | -0.0026 ppm | -0.0157 ppm | -0.0012 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0001 ppm | -0.0001 ppm | 0.0000 ppm | -0.0012 ppm | 0.0117 ppm | 0.0002 ppm |
| Recovery Percentage 1 | 0.743 % | -0.382 % | -0.998 % | 1.271 % | -0.825 % | -0.383 % | -0.244 % |
| Concentration RSD | 113.7 % | 54.7 % | 264.9 % | 110.2 % | 661.3 % | 198.3 % | 322.8 % |

| | 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 | -0.0005 ppm | 0.0010 ppm | 0.0086 ppm | -0.0001 ppm | 0.0002 ppm | 0.0019 ppm | 0.0003 ppm |
| Concentration per Run 1 | -0.0007 ppm | 0.0010 ppm | 0.0071 ppm | 0.0000 ppm | 0.0004 ppm | 0.0021 ppm | -0.0003 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0011 ppm | 0.0131 ppm | -0.0002 ppm | 0.0001 ppm | 0.0015 ppm | 0.0007 ppm |
| Concentration per Run 3 | -0.0007 ppm | 0.0009 ppm | 0.0058 ppm | 0.0000 ppm | 0.0000 ppm | 0.0021 ppm | 0.0007 ppm |
| Recovery Percentage 1 | -4.962 % | 1.993 % | 0.432 % | -0.378 % | 1.863 % | 3.815 % | 3.373 % |
| Concentration RSD | 69.1 % | 10.9 % | 44.8 % | 130.9 % | 116.0 % | 18.4 % | 172.3 % |

| | 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 | 0.0030 ppm | 0.0005 ppm | 0.0000 ppm | 0.0001 ppm | -0.0005 ppm | -0.0001 ppm | 0.0002 ppm |
| Concentration per Run 1 | 0.0033 ppm | 0.0007 ppm | 0.0000 ppm | -0.0001 ppm | -0.0011 ppm | -0.0003 ppm | 0.0002 ppm |
| Concentration per Run 2 | 0.0023 ppm | 0.0006 ppm | 0.0000 ppm | 0.0002 ppm | 0.0001 ppm | -0.0001 ppm | 0.0002 ppm |
| Concentration per Run 3 | 0.0035 ppm | 0.0002 ppm | 0.0000 ppm | 0.0001 ppm | -0.0004 ppm | 0.0000 ppm | 0.0003 ppm |
| Recovery Percentage 1 | 0.605 % | 0.993 % | 0.349 % | 0.582 % | -2.360 % | -1.326 % | 4.432 % |
| Concentration RSD | 19.8 % | 51.0 % | 56.7 % | 215.2 % | 135.3 % | 110.9 % | 27.4 % |

| | 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 | 93.9811 % | 106.6135 % | 108.5279 % | 103.4066 % | 99.1243 % | 105.8404 % | 0.0005 ppm |
| Concentration per Run 1 | 92.8475 % | 106.9758 % | 108.3806 % | 98.4898 % | 98.9043 % | 106.0944 % | 0.0004 ppm |
| Concentration per Run 2 | 94.5736 % | 106.5747 % | 108.2125 % | 104.5486 % | 98.9019 % | 105.7821 % | 0.0001 ppm |
| Concentration per Run 3 | 94.5221 % | 106.2899 % | 108.9907 % | 107.1814 % | 99.5668 % | 105.6448 % | 0.0009 ppm |
| Recovery Percentage 1 | | | | | | | 4.877 % |
| Concentration RSD | 1.0 % | 0.3 % | 0.4 % | 4.3 % | 0.4 % | 0.2 % | 87.6 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 9:50:36 PM
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 | 0.4672 ppm | 0.5162 ppm | 0.4655 ppm | 0.5051 ppm | 0.4988 ppm | 0.4963 ppm | 0.5163 ppm |
| Concentration per Run 1 | 0.4665 ppm | 0.5216 ppm | 0.4609 ppm | 0.5032 ppm | 0.5060 ppm | 0.5037 ppm | 0.5246 ppm |
| Concentration per Run 2 | 0.4659 ppm | 0.5084 ppm | 0.4667 ppm | 0.5040 ppm | 0.4953 ppm | 0.4929 ppm | 0.5078 ppm |
| Concentration per Run 3 | 0.4692 ppm | 0.5187 ppm | 0.4690 ppm | 0.5082 ppm | 0.4951 ppm | 0.4923 ppm | 0.5166 ppm |
| Recovery Percentage 1 | 93.437 % | 103.247 % | 93.104 % | 101.023 % | 99.760 % | 99.266 % | 103.270 % |
| Concentration RSD | 0.4 % | 1.3 % | 0.9 % | 0.5 % | 1.2 % | 1.3 % | 1.6 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.4789 ppm | 0.5212 ppm | 0.4527 ppm | 0.4627 ppm | 0.4824 ppm | 5.1556 ppm | 0.4823 ppm |
| Concentration per Run 1 | 0.4788 ppm | 0.5206 ppm | 0.4523 ppm | 0.4612 ppm | 0.4893 ppm | 5.2151 ppm | 0.4798 ppm |
| Concentration per Run 2 | 0.4791 ppm | 0.5204 ppm | 0.4523 ppm | 0.4621 ppm | 0.4767 ppm | 5.1567 ppm | 0.4815 ppm |
| Concentration per Run 3 | 0.4787 ppm | 0.5226 ppm | 0.4535 ppm | 0.4649 ppm | 0.4811 ppm | 5.0951 ppm | 0.4856 ppm |
| Recovery Percentage 1 | 95.774 % | 104.240 % | 90.536 % | 92.545 % | 96.471 % | 103.113 % | 96.455 % |
| Concentration RSD | 0.0 % | 0.2 % | 0.2 % | 0.4 % | 1.3 % | 1.2 % | 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 | 0.4832 ppm | 0.4956 ppm | 10.7933 ppm | 0.4976 ppm | 0.5118 ppm | 0.5229 ppm | 0.5114 ppm |
| Concentration per Run 1 | 0.4914 ppm | 0.4929 ppm | 10.9343 ppm | 0.4966 ppm | 0.5115 ppm | 0.5203 ppm | 0.5096 ppm |
| Concentration per Run 2 | 0.4783 ppm | 0.4954 ppm | 10.7295 ppm | 0.4983 ppm | 0.5119 ppm | 0.5231 ppm | 0.5113 ppm |
| Concentration per Run 3 | 0.4801 ppm | 0.4985 ppm | 10.7162 ppm | 0.4978 ppm | 0.5119 ppm | 0.5251 ppm | 0.5132 ppm |
| Recovery Percentage 1 | 96.647 % | 99.116 % | 107.933 % | 99.511 % | 102.355 % | 104.574 % | 102.271 % |
| Concentration RSD | 1.5 % | 0.6 % | 1.1 % | 0.2 % | 0.0 % | 0.5 % | 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 | 5.7029 ppm | 0.4864 ppm | 0.5152 ppm | 0.4932 ppm | 0.5010 ppm | 0.4630 ppm | 0.5144 ppm |
| Concentration per Run 1 | 5.6906 ppm | 0.4855 ppm | 0.5235 ppm | 0.4932 ppm | 0.4999 ppm | 0.4621 ppm | 0.5151 ppm |
| Concentration per Run 2 | 5.7028 ppm | 0.4860 ppm | 0.5112 ppm | 0.4922 ppm | 0.5002 ppm | 0.4626 ppm | 0.5147 ppm |
| Concentration per Run 3 | 5.7154 ppm | 0.4876 ppm | 0.5110 ppm | 0.4940 ppm | 0.5028 ppm | 0.4641 ppm | 0.5135 ppm |
| Recovery Percentage 1 | 108.627 % | 97.272 % | 103.049 % | 98.631 % | 100.190 % | 92.591 % | 102.884 % |
| Concentration RSD | 0.2 % | 0.2 % | 1.4 % | 0.2 % | 0.3 % | 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 | 93.8941 % | 105.0380 % | 105.9670 % | 122.3573 % | 96.9614 % | 107.4865 % | 0.4487 ppm |
| Concentration per Run 1 | 92.8419 % | 104.8351 % | 106.5718 % | 124.3550 % | 97.6360 % | 107.4937 % | 0.4433 ppm |
| Concentration per Run 2 | 94.4949 % | 105.0134 % | 106.0707 % | 122.9403 % | 97.1370 % | 107.5052 % | 0.4454 ppm |
| Concentration per Run 3 | 94.3455 % | 105.2656 % | 105.2585 % | 119.7767 % | 96.1111 % | 107.4607 % | 0.4574 ppm |
| Recovery Percentage 1 | | | | | | | 89.744 % |
| Concentration RSD | 1.0 % | 0.2 % | 0.6 % | 1.9 % | 0.8 % | 0.0 % | 1.7 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/19/2024 9:57:01 PM
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 | 0.0001 ppm | 0.0015 ppm | 0.0000 ppm | 0.0000 ppm | 0.0252 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.0026 ppm | 0.0001 ppm | 0.0015 ppm | -0.0001 ppm | 0.0000 ppm | 0.0276 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0012 ppm | 0.0001 ppm | 0.0015 ppm | 0.0001 ppm | 0.0000 ppm | 0.0189 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0063 ppm | -0.0001 ppm | 0.0015 ppm | -0.0001 ppm | 0.0000 ppm | 0.0290 ppm |
| Recovery Percentage 1 | 1.643 % | -0.818 % | 1.077 % | 4.990 % | -0.105 % | -0.105 % | 25.175 % |
| Concentration RSD | 97.7 % | 581.1 % | 196.4 % | 3.0 % | 1,015.3 % | 265.1 % | 21.6 % |

| | 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 | -0.0003 ppm | 0.0028 ppm | -0.0010 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0001 ppm | -0.0001 ppm | 0.0002 ppm | 0.0009 ppm | -0.0090 ppm | -0.0001 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0001 ppm | -0.0001 ppm | 0.0003 ppm | 0.0001 ppm | 0.0293 ppm | -0.0011 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0000 ppm | -0.0001 ppm | 0.0002 ppm | -0.0020 ppm | -0.0120 ppm | -0.0018 ppm |
| Recovery Percentage 1 | 1.024 % | -0.125 % | -1.116 % | 2.488 % | -0.653 % | 0.110 % | -0.979 % |
| Concentration RSD | 50.8 % | 434.1 % | 40.4 % | 11.2 % | 462.9 % | 834.2 % | 87.3 % |

| | 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 | -0.0001 ppm | 0.0009 ppm | 0.0085 ppm | -0.0002 ppm | -0.0002 ppm | 0.0006 ppm | 0.0008 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0010 ppm | 0.0068 ppm | -0.0005 ppm | 0.0000 ppm | -0.0001 ppm | 0.0021 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0009 ppm | 0.0094 ppm | -0.0002 ppm | -0.0004 ppm | 0.0008 ppm | 0.0007 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0010 ppm | 0.0093 ppm | 0.0002 ppm | -0.0001 ppm | 0.0010 ppm | -0.0003 ppm |
| Recovery Percentage 1 | -1.424 % | 1.883 % | 0.425 % | -0.677 % | -1.837 % | 1.169 % | 8.053 % |
| Concentration RSD | 47.0 % | 5.3 % | 17.7 % | 223.1 % | 112.6 % | 101.5 % | 147.9 % |

| | 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 | 0.0022 ppm | 0.0006 ppm | 0.0000 ppm | 0.0001 ppm | 0.0006 ppm | -0.0001 ppm | 0.0002 ppm |
| Concentration per Run 1 | 0.0028 ppm | 0.0003 ppm | 0.0000 ppm | 0.0000 ppm | -0.0007 ppm | -0.0002 ppm | 0.0002 ppm |
| Concentration per Run 2 | 0.0013 ppm | 0.0005 ppm | -0.0001 ppm | 0.0003 ppm | 0.0011 ppm | -0.0002 ppm | 0.0002 ppm |
| Concentration per Run 3 | 0.0024 ppm | 0.0008 ppm | 0.0001 ppm | -0.0001 ppm | 0.0012 ppm | 0.0001 ppm | 0.0003 ppm |
| Recovery Percentage 1 | 0.439 % | 1.127 % | 0.000 % | 0.513 % | 2.823 % | -1.069 % | 4.552 % |
| Concentration RSD | 36.1 % | 45.5 % | 216,067.3 % | 389.2 % | 187.7 % | 148.1 % | 22.0 % |

| | 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 | 94.4756 % | 105.4410 % | 107.7117 % | 103.5367 % | 98.7531 % | 104.8205 % | 0.0003 ppm |
| Concentration per Run 1 | 93.0225 % | 105.3209 % | 108.2496 % | 98.3448 % | 99.2321 % | 104.5197 % | 0.0002 ppm |
| Concentration per Run 2 | 95.5176 % | 105.3039 % | 107.2105 % | 105.1247 % | 98.1767 % | 104.7385 % | 0.0010 ppm |
| Concentration per Run 3 | 94.8868 % | 105.6981 % | 107.6751 % | 107.1405 % | 98.8505 % | 105.2032 % | -0.0004 ppm |
| Recovery Percentage 1 | | | | | | | 2.882 % |
| Concentration RSD | 1.4 % | 0.2 % | 0.5 % | 4.5 % | 0.5 % | 0.3 % | 247.2 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473538-04 WG2010915
Analysis started at: 12/19/2024 10:09:08 PM
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 | 0.0000 ppm | 0.0099 ppm | 0.0016 ppm | 0.0073 ppm | 0.0361 ppm | 0.0000 ppm | 6.3262 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0070 ppm | 0.0015 ppm | 0.0073 ppm | 0.0378 ppm | 0.0000 ppm | 6.6606 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0134 ppm | 0.0009 ppm | 0.0072 ppm | 0.0351 ppm | 0.0000 ppm | 6.1428 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0093 ppm | 0.0024 ppm | 0.0076 ppm | 0.0354 ppm | 0.0000 ppm | 6.1751 ppm |
| Concentration RSD | 164.1 % | 32.8 % | 45.5 % | 3.0 % | 4.1 % | 29.3 % | 4.6 % |

| | 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 | -0.0002 ppm | 0.0006 ppm | 0.0006 ppm | 0.0117 ppm | 1.1202 ppm | 1.9002 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0002 ppm | 0.0006 ppm | 0.0008 ppm | 0.0142 ppm | 1.1762 ppm | 1.8998 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0001 ppm | 0.0003 ppm | 0.0005 ppm | 0.0115 ppm | 1.0732 ppm | 1.9050 ppm |
| Concentration per Run 3 | 0.0001 ppm | -0.0002 ppm | 0.0009 ppm | 0.0006 ppm | 0.0095 ppm | 1.1111 ppm | 1.8958 ppm |
| Concentration RSD | 65.5 % | 20.1 % | 48.6 % | 25.0 % | 20.1 % | 4.6 % | 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 | 0.0053 ppm | 0.0002 ppm | 4.8114 ppm | 0.0009 ppm | -0.0009 ppm | 0.0001 ppm | 0.0014 ppm |
| Concentration per Run 1 | 0.0058 ppm | 0.0002 ppm | 5.0133 ppm | 0.0009 ppm | -0.0008 ppm | 0.0000 ppm | 0.0003 ppm |
| Concentration per Run 2 | 0.0050 ppm | 0.0002 ppm | 4.6969 ppm | 0.0010 ppm | -0.0013 ppm | -0.0001 ppm | 0.0033 ppm |
| Concentration per Run 3 | 0.0052 ppm | 0.0000 ppm | 4.7240 ppm | 0.0007 ppm | -0.0007 ppm | 0.0003 ppm | 0.0008 ppm |
| Concentration RSD | 8.0 % | 66.9 % | 3.6 % | 18.6 % | 36.9 % | 224.8 % | 112.2 % |

| | 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 | 4.8819 ppm | 0.0001 ppm | 0.0254 ppm | 0.0002 ppm | 0.0008 ppm | -0.0001 ppm | 0.0096 ppm |
| Concentration per Run 1 | 4.8723 ppm | 0.0002 ppm | 0.0264 ppm | 0.0003 ppm | 0.0005 ppm | -0.0002 ppm | 0.0098 ppm |
| Concentration per Run 2 | 4.8949 ppm | 0.0000 ppm | 0.0248 ppm | 0.0003 ppm | 0.0010 ppm | 0.0001 ppm | 0.0097 ppm |
| Concentration per Run 3 | 4.8784 ppm | 0.0000 ppm | 0.0250 ppm | 0.0000 ppm | 0.0009 ppm | -0.0001 ppm | 0.0095 ppm |
| Concentration RSD | 0.2 % | 160.8 % | 3.4 % | 74.0 % | 32.2 % | 182.1 % | 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 | 95.3822 % | 107.8181 % | 109.9708 % | 94.3395 % | 100.4953 % | 104.6334 % | 0.0006 ppm |
| Concentration per Run 1 | 91.2840 % | 107.3471 % | 110.4269 % | 84.3802 % | 100.2812 % | 103.8272 % | 0.0013 ppm |
| Concentration per Run 2 | 97.9283 % | 108.1181 % | 109.6761 % | 96.9753 % | 100.2215 % | 104.8463 % | -0.0007 ppm |
| Concentration per Run 3 | 96.9342 % | 107.9889 % | 109.8093 % | 101.6629 % | 100.9833 % | 105.2268 % | 0.0012 ppm |
| Concentration RSD | 3.8 % | 0.4 % | 0.4 % | 9.5 % | 0.4 % | 0.7 % | 181.2 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473538-05 WG2010915
Analysis started at: 12/19/2024 10:15:49 PM
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 | 0.0000 ppm | 0.0435 ppm | 0.0012 ppm | 0.0084 ppm | 0.0054 ppm | 0.0000 ppm | 20.9008 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0437 ppm | 0.0000 ppm | 0.0085 ppm | 0.0056 ppm | 0.0000 ppm | 21.6958 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0422 ppm | 0.0011 ppm | 0.0083 ppm | 0.0054 ppm | 0.0000 ppm | 20.5413 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0446 ppm | 0.0023 ppm | 0.0083 ppm | 0.0052 ppm | 0.0000 ppm | 20.4654 ppm |
| Concentration RSD | 463.0 % | 2.8 % | 98.5 % | 1.6 % | 3.4 % | 117.3 % | 3.3 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0001 ppm | -0.0004 ppm | -0.0001 ppm | 0.0008 ppm | 0.1205 ppm | 0.7861 ppm | 2.6287 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0006 ppm | -0.0003 ppm | 0.0007 ppm | 0.1321 ppm | 0.8128 ppm | 2.6252 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0004 ppm | 0.0001 ppm | 0.0007 ppm | 0.1167 ppm | 0.7883 ppm | 2.6326 ppm |
| Concentration per Run 3 | 0.0001 ppm | -0.0002 ppm | -0.0001 ppm | 0.0009 ppm | 0.1127 ppm | 0.7573 ppm | 2.6283 ppm |
| Concentration RSD | 15.1 % | 46.6 % | 227.3 % | 18.7 % | 8.5 % | 3.5 % | 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 | 0.0247 ppm | 0.0005 ppm | 6.4997 ppm | 0.0003 ppm | -0.0025 ppm | 0.0006 ppm | -0.0001 ppm |
| Concentration per Run 1 | 0.0257 ppm | 0.0006 ppm | 6.7428 ppm | -0.0002 ppm | -0.0023 ppm | 0.0014 ppm | 0.0005 ppm |
| Concentration per Run 2 | 0.0240 ppm | 0.0005 ppm | 6.4015 ppm | 0.0006 ppm | -0.0024 ppm | 0.0000 ppm | -0.0015 ppm |
| Concentration per Run 3 | 0.0244 ppm | 0.0004 ppm | 6.3547 ppm | 0.0005 ppm | -0.0027 ppm | 0.0005 ppm | 0.0007 ppm |
| Concentration RSD | 3.6 % | 15.1 % | 3.3 % | 154.4 % | 7.8 % | 113.4 % | 1,014.0 % |

| | 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 | 11.1766 ppm | 0.0001 ppm | 0.1321 ppm | 0.0017 ppm | 0.0010 ppm | 0.0013 ppm | -0.0003 ppm |
| Concentration per Run 1 | 11.1661 ppm | 0.0002 ppm | 0.1370 ppm | 0.0017 ppm | 0.0004 ppm | 0.0015 ppm | -0.0003 ppm |
| Concentration per Run 2 | 11.1624 ppm | -0.0002 ppm | 0.1300 ppm | 0.0017 ppm | 0.0010 ppm | 0.0013 ppm | -0.0004 ppm |
| Concentration per Run 3 | 11.2013 ppm | 0.0003 ppm | 0.1293 ppm | 0.0016 ppm | 0.0015 ppm | 0.0012 ppm | -0.0002 ppm |
| Concentration RSD | 0.2 % | 244.1 % | 3.2 % | 3.2 % | 59.8 % | 11.6 % | 39.2 % |

| | 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 | 94.7264 % | 106.3565 % | 108.0027 % | 94.4728 % | 98.3129 % | 103.4646 % | 0.0015 ppm |
| Concentration per Run 1 | 91.9404 % | 106.4174 % | 108.1804 % | 86.6344 % | 97.8832 % | 103.0578 % | 0.0017 ppm |
| Concentration per Run 2 | 96.1442 % | 106.2426 % | 108.3015 % | 96.3693 % | 98.6234 % | 103.3756 % | 0.0018 ppm |
| Concentration per Run 3 | 96.0945 % | 106.4094 % | 107.5263 % | 100.4148 % | 98.4323 % | 103.9603 % | 0.0012 ppm |
| Concentration RSD | 2.5 % | 0.1 % | 0.4 % | 7.5 % | 0.4 % | 0.4 % | 21.2 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473642-01 WG2010915
Analysis started at: 12/19/2024 10:22:28 PM
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 | 0.0002 ppm | 0.2820 ppm | 0.0035 ppm | 0.0588 ppm | 0.0238 ppm | 0.0000 ppm | 24.1770 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.2982 ppm | 0.0027 ppm | 0.0590 ppm | 0.0255 ppm | 0.0000 ppm | 25.8871 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.2763 ppm | 0.0034 ppm | 0.0585 ppm | 0.0229 ppm | 0.0000 ppm | 23.3253 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.2715 ppm | 0.0043 ppm | 0.0589 ppm | 0.0229 ppm | 0.0000 ppm | 23.3185 ppm |
| Concentration RSD | 11.5 % | 5.0 % | 23.2 % | 0.5 % | 6.4 % | 299.0 % | 6.1 % |

| | 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 | 0.0005 ppm | 0.0014 ppm | 0.0069 ppm | 1.0296 ppm | 3.6382 ppm | 3.2324 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0005 ppm | 0.0015 ppm | 0.0071 ppm | 1.1475 ppm | 3.8756 ppm | 3.2522 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0005 ppm | 0.0013 ppm | 0.0070 ppm | 0.9918 ppm | 3.5051 ppm | 3.2218 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0006 ppm | 0.0014 ppm | 0.0066 ppm | 0.9497 ppm | 3.5338 ppm | 3.2232 ppm |
| Concentration RSD | 58.3 % | 7.1 % | 7.2 % | 3.7 % | 10.1 % | 5.7 % | 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 | 0.0730 ppm | 0.0047 ppm | 63.5475 ppm | 0.0016 ppm | 0.0054 ppm | 0.0013 ppm | 0.0011 ppm |
| Concentration per Run 1 | 0.0784 ppm | 0.0047 ppm | 68.0960 ppm | 0.0015 ppm | 0.0051 ppm | 0.0017 ppm | 0.0023 ppm |
| Concentration per Run 2 | 0.0703 ppm | 0.0046 ppm | 61.4055 ppm | 0.0016 ppm | 0.0054 ppm | 0.0017 ppm | 0.0009 ppm |
| Concentration per Run 3 | 0.0702 ppm | 0.0049 ppm | 61.1408 ppm | 0.0017 ppm | 0.0057 ppm | 0.0006 ppm | 0.0002 ppm |
| Concentration RSD | 6.5 % | 3.3 % | 6.2 % | 5.9 % | 5.7 % | 49.2 % | 97.1 % |

| | 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 | 3.2303 ppm | 0.0003 ppm | 0.1478 ppm | 0.0129 ppm | 0.0020 ppm | 0.0014 ppm | 0.0623 ppm |
| Concentration per Run 1 | 3.2254 ppm | 0.0005 ppm | 0.1584 ppm | 0.0132 ppm | 0.0022 ppm | 0.0013 ppm | 0.0627 ppm |
| Concentration per Run 2 | 3.2216 ppm | 0.0002 ppm | 0.1427 ppm | 0.0126 ppm | 0.0011 ppm | 0.0014 ppm | 0.0623 ppm |
| Concentration per Run 3 | 3.2440 ppm | 0.0002 ppm | 0.1423 ppm | 0.0129 ppm | 0.0027 ppm | 0.0014 ppm | 0.0617 ppm |
| Concentration RSD | 0.4 % | 52.8 % | 6.2 % | 2.5 % | 40.9 % | 5.0 % | 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 | 92.9757 % | 104.3609 % | 105.0394 % | 93.0494 % | 93.9364 % | 101.9919 % | 0.0041 ppm |
| Concentration per Run 1 | 87.5508 % | 104.1794 % | 105.0772 % | 83.1259 % | 93.7259 % | 101.4013 % | 0.0051 ppm |
| Concentration per Run 2 | 95.7430 % | 104.0634 % | 105.4636 % | 95.8411 % | 94.3377 % | 101.7480 % | 0.0036 ppm |
| Concentration per Run 3 | 95.6333 % | 104.8399 % | 104.5775 % | 100.1812 % | 93.7455 % | 102.8266 % | 0.0036 ppm |
| Concentration RSD | 5.1 % | 0.4 % | 0.4 % | 9.5 % | 0.4 % | 0.7 % | 20.0 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2473756-01 WG2010915
Analysis started at: 12/19/2024 10:29:08 PM
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 | 0.0000 ppm | 0.0285 ppm | 0.0050 ppm | 0.4889 ppm | 0.0279 ppm | -0.0001 ppm | 449.7858 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.0309 ppm | 0.0039 ppm | 0.4902 ppm | 0.0287 ppm | -0.0002 ppm | 464.7903 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0238 ppm | 0.0053 ppm | 0.4891 ppm | 0.0276 ppm | -0.0001 ppm | 444.2375 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0308 ppm | 0.0059 ppm | 0.4875 ppm | 0.0275 ppm | -0.0002 ppm | 440.3295 ppm |
| Concentration RSD | 2,322.6 % | 14.2 % | 20.9 % | 0.3 % | 2.5 % | 32.6 % | 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 | -0.0008 ppm | 0.0035 ppm | 0.0010 ppm | 0.0020 ppm | 8.7854 ppm | 71.1789 ppm | 109.1496 ppm |
| Concentration per Run 1 | -0.0009 ppm | 0.0035 ppm | 0.0008 ppm | 0.0021 ppm | 9.3771 ppm | 73.1673 ppm | 109.0735 ppm |
| Concentration per Run 2 | -0.0008 ppm | 0.0034 ppm | 0.0012 ppm | 0.0020 ppm | 8.6434 ppm | 70.1506 ppm | 109.3561 ppm |
| Concentration per Run 3 | -0.0008 ppm | 0.0036 ppm | 0.0010 ppm | 0.0019 ppm | 8.3357 ppm | 70.2188 ppm | 109.0190 ppm |
| Concentration RSD | 5.4 % | 2.2 % | 19.8 % | 7.2 % | 6.1 % | 2.4 % | 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 | 2.0743 ppm | 0.0327 ppm | 196.2416 ppm | 0.0002 ppm | -0.0020 ppm | 0.0000 ppm | -0.0001 ppm |
| Concentration per Run 1 | 2.1418 ppm | 0.0325 ppm | 201.6144 ppm | -0.0001 ppm | -0.0011 ppm | -0.0009 ppm | 0.0009 ppm |
| Concentration per Run 2 | 2.0486 ppm | 0.0327 ppm | 193.4313 ppm | 0.0002 ppm | -0.0035 ppm | 0.0012 ppm | -0.0011 ppm |
| Concentration per Run 3 | 2.0324 ppm | 0.0327 ppm | 193.6792 ppm | 0.0005 ppm | -0.0013 ppm | -0.0002 ppm | -0.0001 ppm |
| Concentration RSD | 2.8 % | 0.3 % | 2.4 % | 165.5 % | 67.0 % | 2,788.7 % | 1,102.2 % |

| | 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 | 11.2025 ppm | 0.0019 ppm | 2.0662 ppm | 0.0013 ppm | -0.0018 ppm | -0.0007 ppm | -0.0005 ppm |
| Concentration per Run 1 | 11.1855 ppm | 0.0016 ppm | 2.1246 ppm | 0.0015 ppm | -0.0024 ppm | -0.0005 ppm | -0.0007 ppm |
| Concentration per Run 2 | 11.1689 ppm | 0.0018 ppm | 2.0361 ppm | 0.0013 ppm | -0.0028 ppm | -0.0008 ppm | -0.0006 ppm |
| Concentration per Run 3 | 11.2532 ppm | 0.0024 ppm | 2.0379 ppm | 0.0012 ppm | -0.0003 ppm | -0.0008 ppm | -0.0002 ppm |
| Concentration RSD | 0.4 % | 19.7 % | 2.4 % | 12.7 % | 73.3 % | 24.7 % | 51.8 % |

| | 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 | 91.0086 % | 94.4209 % | 90.5516 % | 97.5322 % | 79.9720 % | 93.8639 % | 0.1466 ppm |
| Concentration per Run 1 | 88.4121 % | 94.4041 % | 90.9839 % | 90.8467 % | 80.1196 % | 93.6364 % | 0.1575 ppm |
| Concentration per Run 2 | 92.2722 % | 94.4325 % | 90.7815 % | 99.3097 % | 80.0004 % | 93.8712 % | 0.1429 ppm |
| Concentration per Run 3 | 92.3414 % | 94.4262 % | 89.8893 % | 102.4400 % | 79.7961 % | 94.0840 % | 0.1394 ppm |
| Concentration RSD | 2.5 % | 0.0 % | 0.6 % | 6.1 % | 0.2 % | 0.2 % | 6.5 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2474329-01 WG2010915
Analysis started at: 12/19/2024 10:35:45 PM
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 | 0.0002 ppm | 0.0073 ppm | 0.0019 ppm | 0.0212 ppm | 0.0437 ppm | 0.0000 ppm | 10.9507 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0087 ppm | 0.0026 ppm | 0.0212 ppm | 0.0452 ppm | 0.0001 ppm | 11.4075 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0084 ppm | 0.0029 ppm | 0.0213 ppm | 0.0429 ppm | 0.0000 ppm | 10.7201 ppm |
| Concentration per Run 3 | 0.0004 ppm | 0.0049 ppm | 0.0001 ppm | 0.0211 ppm | 0.0430 ppm | 0.0000 ppm | 10.7246 ppm |
| Concentration RSD | 147.6 % | 28.8 % | 80.3 % | 0.5 % | 3.1 % | 539.1 % | 3.6 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0000 ppm | 0.0000 ppm | 0.0005 ppm | 0.0009 ppm | 0.0068 ppm | 1.6928 ppm | 3.1952 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0000 ppm | 0.0002 ppm | 0.0010 ppm | 0.0089 ppm | 1.7438 ppm | 3.2111 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | 0.0009 ppm | 0.0008 ppm | 0.0052 ppm | 1.6741 ppm | 3.2044 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0001 ppm | 0.0005 ppm | 0.0007 ppm | 0.0064 ppm | 1.6607 ppm | 3.1701 ppm |
| Concentration RSD | 78.7 % | 639.1 % | 68.9 % | 15.4 % | 27.7 % | 2.6 % | 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 | 0.0072 ppm | -0.0001 ppm | 58.0386 ppm | 0.0007 ppm | -0.0006 ppm | -0.0011 ppm | 0.0010 ppm |
| Concentration per Run 1 | 0.0071 ppm | 0.0000 ppm | 59.9875 ppm | 0.0007 ppm | -0.0008 ppm | -0.0014 ppm | -0.0001 ppm |
| Concentration per Run 2 | 0.0077 ppm | -0.0002 ppm | 57.1609 ppm | 0.0007 ppm | -0.0008 ppm | -0.0010 ppm | 0.0020 ppm |
| Concentration per Run 3 | 0.0068 ppm | -0.0002 ppm | 56.9675 ppm | 0.0008 ppm | -0.0001 ppm | -0.0009 ppm | 0.0012 ppm |
| Concentration RSD | 5.9 % | 91.8 % | 2.9 % | 8.2 % | 78.8 % | 20.5 % | 105.4 % |

| | 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 | 3.1022 ppm | -0.0001 ppm | 0.0518 ppm | 0.0001 ppm | 0.0016 ppm | -0.0002 ppm | 0.0000 ppm |
| Concentration per Run 1 | 3.1055 ppm | 0.0000 ppm | 0.0535 ppm | 0.0001 ppm | 0.0024 ppm | -0.0004 ppm | 0.0000 ppm |
| Concentration per Run 2 | 3.1060 ppm | -0.0001 ppm | 0.0509 ppm | 0.0002 ppm | 0.0011 ppm | -0.0001 ppm | 0.0000 ppm |
| Concentration per Run 3 | 3.0949 ppm | -0.0002 ppm | 0.0511 ppm | 0.0000 ppm | 0.0012 ppm | -0.0001 ppm | 0.0000 ppm |
| Concentration RSD | 0.2 % | 88.9 % | 2.8 % | 84.6 % | 45.8 % | 101.9 % | 76.7 % |

| | 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 | 93.1699 % | 103.9351 % | 105.9110 % | 91.6419 % | 95.1663 % | 101.0327 % | 0.0000 ppm |
| Concentration per Run 1 | 90.0961 % | 103.6521 % | 105.6634 % | 83.9284 % | 94.7058 % | 100.3320 % | -0.0006 ppm |
| Concentration per Run 2 | 94.8237 % | 103.8606 % | 106.0139 % | 93.3931 % | 95.4784 % | 100.9897 % | 0.0000 ppm |
| Concentration per Run 3 | 94.5900 % | 104.2924 % | 106.0557 % | 97.6042 % | 95.3148 % | 101.7764 % | 0.0005 ppm |
| Concentration RSD | 2.9 % | 0.3 % | 0.2 % | 7.6 % | 0.4 % | 0.7 % | 1,240.4 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2474304-02 WG2010915
Analysis started at: 12/19/2024 10:42:26 PM
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 | 0.0278 ppm | 0.0018 ppm | 0.0790 ppm | 0.0378 ppm | -0.0001 ppm | 43.4015 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0354 ppm | 0.0009 ppm | 0.0793 ppm | 0.0392 ppm | 0.0000 ppm | 45.4670 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.0247 ppm | 0.0026 ppm | 0.0788 ppm | 0.0373 ppm | -0.0001 ppm | 42.6776 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0232 ppm | 0.0019 ppm | 0.0789 ppm | 0.0368 ppm | -0.0001 ppm | 42.0597 ppm |
| Concentration RSD | 231.8 % | 23.9 % | 48.2 % | 0.3 % | 3.4 % | 49.2 % | 4.2 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0000 ppm | -0.0001 ppm | 0.0000 ppm | 0.0016 ppm | 0.0163 ppm | 7.9166 ppm | 5.5729 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0002 ppm | 0.0000 ppm | 0.0017 ppm | 0.0183 ppm | 8.2264 ppm | 5.6126 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0000 ppm | 0.0001 ppm | 0.0018 ppm | 0.0162 ppm | 7.8123 ppm | 5.5627 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0001 ppm | 0.0000 ppm | 0.0015 ppm | 0.0143 ppm | 7.7110 ppm | 5.5434 ppm |
| Concentration RSD | 481.9 % | 71.5 % | 187.2 % | 9.7 % | 12.5 % | 3.4 % | 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 | 0.1016 ppm | 0.0000 ppm | 104.0780 ppm | 0.0012 ppm | -0.0013 ppm | 0.0003 ppm | -0.0007 ppm |
| Concentration per Run 1 | 0.1065 ppm | -0.0001 ppm | 107.6641 ppm | 0.0013 ppm | -0.0013 ppm | -0.0006 ppm | -0.0010 ppm |
| Concentration per Run 2 | 0.0997 ppm | 0.0001 ppm | 102.7464 ppm | 0.0012 ppm | -0.0015 ppm | 0.0005 ppm | 0.0002 ppm |
| Concentration per Run 3 | 0.0988 ppm | 0.0001 ppm | 101.8236 ppm | 0.0011 ppm | -0.0011 ppm | 0.0011 ppm | -0.0013 ppm |
| Concentration RSD | 4.1 % | 396.2 % | 3.0 % | 9.1 % | 13.0 % | 245.2 % | 117.7 % |

| | 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 | 7.2077 ppm | 0.0008 ppm | 0.2416 ppm | 0.0004 ppm | 0.0007 ppm | -0.0001 ppm | 0.0194 ppm |
| Concentration per Run 1 | 7.2237 ppm | 0.0006 ppm | 0.2500 ppm | 0.0003 ppm | 0.0001 ppm | -0.0001 ppm | 0.0194 ppm |
| Concentration per Run 2 | 7.1770 ppm | 0.0009 ppm | 0.2380 ppm | 0.0006 ppm | 0.0018 ppm | -0.0001 ppm | 0.0194 ppm |
| Concentration per Run 3 | 7.2224 ppm | 0.0009 ppm | 0.2368 ppm | 0.0003 ppm | 0.0003 ppm | -0.0001 ppm | 0.0193 ppm |
| Concentration RSD | 0.4 % | 24.1 % | 3.0 % | 40.6 % | 120.2 % | 18.4 % | 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 | 92.7738 % | 102.5472 % | 102.5550 % | 91.5872 % | 91.0481 % | 100.0529 % | 0.0101 ppm |
| Concentration per Run 1 | 89.2238 % | 102.4400 % | 102.4455 % | 83.0418 % | 90.4811 % | 99.5143 % | 0.0115 ppm |
| Concentration per Run 2 | 93.9304 % | 102.5114 % | 102.9254 % | 93.1475 % | 91.4204 % | 100.0711 % | 0.0086 ppm |
| Concentration per Run 3 | 95.1674 % | 102.6901 % | 102.2941 % | 98.5723 % | 91.2428 % | 100.5732 % | 0.0101 ppm |
| Concentration RSD | 3.4 % | 0.1 % | 0.3 % | 8.6 % | 0.5 % | 0.5 % | 14.4 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-7 WG2010915
Analysis started at: 12/19/2024 10:49:07 PM
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 | 0.0521 ppm | 2.2499 ppm | 0.1277 ppm | 1.1126 ppm | 2.1353 ppm | 0.0520 ppm | 53.6897 ppm |
| Concentration per Run 1 | 0.0523 ppm | 2.3536 ppm | 0.1276 ppm | 1.1134 ppm | 2.2310 ppm | 0.0544 ppm | 56.4039 ppm |
| Concentration per Run 2 | 0.0521 ppm | 2.1954 ppm | 0.1273 ppm | 1.1088 ppm | 2.0882 ppm | 0.0508 ppm | 52.3386 ppm |
| Concentration per Run 3 | 0.0519 ppm | 2.2009 ppm | 0.1283 ppm | 1.1155 ppm | 2.0867 ppm | 0.0507 ppm | 52.3267 ppm |
| Concentration RSD | 0.4 % | 4.0 % | 0.4 % | 0.3 % | 3.9 % | 4.0 % | 4.4 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0552 ppm | 0.5375 ppm | 0.1927 ppm | 0.2598 ppm | 1.0789 ppm | 18.7042 ppm | 15.2679 ppm |
| Concentration per Run 1 | 0.0553 ppm | 0.5388 ppm | 0.1937 ppm | 0.2601 ppm | 1.1787 ppm | 19.5352 ppm | 15.2889 ppm |
| Concentration per Run 2 | 0.0548 ppm | 0.5349 ppm | 0.1926 ppm | 0.2597 ppm | 1.0510 ppm | 18.2969 ppm | 15.2806 ppm |
| Concentration per Run 3 | 0.0553 ppm | 0.5387 ppm | 0.1918 ppm | 0.2597 ppm | 1.0069 ppm | 18.2805 ppm | 15.2342 ppm |
| Concentration RSD | 0.5 % | 0.4 % | 0.5 % | 0.1 % | 8.3 % | 3.8 % | 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 | 0.5974 ppm | 0.9940 ppm | 115.3682 ppm | 0.5039 ppm | 0.5631 ppm | 0.5418 ppm | 0.1335 ppm |
| Concentration per Run 1 | 0.6275 ppm | 0.9862 ppm | 120.5907 ppm | 0.5046 ppm | 0.5632 ppm | 0.5402 ppm | 0.1333 ppm |
| Concentration per Run 2 | 0.5826 ppm | 0.9918 ppm | 112.8462 ppm | 0.5015 ppm | 0.5620 ppm | 0.5398 ppm | 0.1350 ppm |
| Concentration per Run 3 | 0.5821 ppm | 1.0039 ppm | 112.6676 ppm | 0.5055 ppm | 0.5640 ppm | 0.5453 ppm | 0.1321 ppm |
| Concentration RSD | 4.4 % | 0.9 % | 3.9 % | 0.4 % | 0.2 % | 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 | 8.0882 ppm | 0.9620 ppm | 1.2373 ppm | 1.0203 ppm | 0.1229 ppm | 0.4808 ppm | 0.5572 ppm |
| Concentration per Run 1 | 8.0628 ppm | 0.9652 ppm | 1.2942 ppm | 1.0234 ppm | 0.1216 ppm | 0.4803 ppm | 0.5592 ppm |
| Concentration per Run 2 | 8.1037 ppm | 0.9574 ppm | 1.2101 ppm | 1.0211 ppm | 0.1229 ppm | 0.4814 ppm | 0.5539 ppm |
| Concentration per Run 3 | 8.0982 ppm | 0.9633 ppm | 1.2077 ppm | 1.0165 ppm | 0.1243 ppm | 0.4809 ppm | 0.5586 ppm |
| Concentration RSD | 0.3 % | 0.4 % | 4.0 % | 0.3 % | 1.1 % | 0.1 % | 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 | 92.0714 % | 101.9803 % | 103.3691 % | 94.8995 % | 90.7364 % | 100.9418 % | 0.0096 ppm |
| Concentration per Run 1 | 88.2307 % | 102.2389 % | 104.1669 % | 86.6777 % | 91.1107 % | 100.8712 % | 0.0103 ppm |
| Concentration per Run 2 | 94.1327 % | 101.6721 % | 103.1036 % | 96.9451 % | 90.9807 % | 100.7012 % | 0.0095 ppm |
| Concentration per Run 3 | 93.8509 % | 102.0300 % | 102.8368 % | 101.0758 % | 90.1179 % | 101.2530 % | 0.0089 ppm |
| Concentration RSD | 3.6 % | 0.3 % | 0.7 % | 7.8 % | 0.6 % | 0.3 % | 7.4 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-8 WG2010915
Analysis started at: 12/19/2024 10:55:32 PM
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 | 0.0280 ppm | 0.0016 ppm | 0.0789 ppm | 0.0371 ppm | 0.0000 ppm | 42.2514 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0309 ppm | 0.0026 ppm | 0.0792 ppm | 0.0385 ppm | 0.0000 ppm | 43.9765 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0283 ppm | 0.0010 ppm | 0.0787 ppm | 0.0366 ppm | 0.0000 ppm | 41.4538 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0249 ppm | 0.0011 ppm | 0.0788 ppm | 0.0362 ppm | 0.0000 ppm | 41.3239 ppm |
| Concentration RSD | 251.8 % | 10.7 % | 55.0 % | 0.4 % | 3.4 % | 1,906.9 % | 3.5 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0000 ppm | -0.0001 ppm | 0.0001 ppm | 0.0017 ppm | 0.0145 ppm | 7.8506 ppm | 5.4547 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0001 ppm | 0.0002 ppm | 0.0016 ppm | 0.0166 ppm | 8.1587 ppm | 5.4780 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0001 ppm | 0.0000 ppm | 0.0018 ppm | 0.0136 ppm | 7.7200 ppm | 5.4602 ppm |
| Concentration per Run 3 | 0.0001 ppm | -0.0001 ppm | 0.0001 ppm | 0.0016 ppm | 0.0132 ppm | 7.6731 ppm | 5.4260 ppm |
| Concentration RSD | 134.6 % | 41.3 % | 75.3 % | 6.6 % | 12.6 % | 3.4 % | 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 | 0.0990 ppm | 0.0023 ppm | 102.2404 ppm | 0.0012 ppm | -0.0009 ppm | 0.0017 ppm | -0.0003 ppm |
| Concentration per Run 1 | 0.1026 ppm | 0.0028 ppm | 105.8576 ppm | 0.0012 ppm | -0.0005 ppm | 0.0021 ppm | -0.0003 ppm |
| Concentration per Run 2 | 0.0973 ppm | 0.0024 ppm | 100.9344 ppm | 0.0013 ppm | -0.0004 ppm | 0.0025 ppm | -0.0012 ppm |
| Concentration per Run 3 | 0.0970 ppm | 0.0018 ppm | 99.9292 ppm | 0.0011 ppm | -0.0018 ppm | 0.0006 ppm | 0.0005 ppm |
| Concentration RSD | 3.2 % | 20.6 % | 3.1 % | 8.7 % | 89.5 % | 58.5 % | 275.9 % |

| | 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 | 7.0796 ppm | 0.0013 ppm | 0.2383 ppm | 0.0007 ppm | 0.0003 ppm | -0.0001 ppm | 0.0190 ppm |
| Concentration per Run 1 | 7.0772 ppm | 0.0021 ppm | 0.2469 ppm | 0.0004 ppm | 0.0015 ppm | -0.0002 ppm | 0.0191 ppm |
| Concentration per Run 2 | 7.0519 ppm | 0.0012 ppm | 0.2348 ppm | 0.0008 ppm | -0.0016 ppm | -0.0002 ppm | 0.0190 ppm |
| Concentration per Run 3 | 7.1097 ppm | 0.0005 ppm | 0.2331 ppm | 0.0009 ppm | 0.0010 ppm | 0.0000 ppm | 0.0189 ppm |
| Concentration RSD | 0.4 % | 64.8 % | 3.2 % | 38.1 % | 558.0 % | 80.3 % | 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 | 93.3958 % | 102.5972 % | 102.6097 % | 92.3976 % | 91.4990 % | 100.3299 % | 0.0101 ppm |
| Concentration per Run 1 | 89.9078 % | 102.3607 % | 102.7906 % | 84.2243 % | 91.2273 % | 99.7324 % | 0.0109 ppm |
| Concentration per Run 2 | 95.3451 % | 102.6333 % | 102.9976 % | 94.6518 % | 91.6683 % | 100.4099 % | 0.0099 ppm |
| Concentration per Run 3 | 94.9346 % | 102.7975 % | 102.0410 % | 98.3166 % | 91.6015 % | 100.8475 % | 0.0096 ppm |
| Concentration RSD | 3.2 % | 0.2 % | 0.5 % | 7.9 % | 0.3 % | 0.6 % | 6.8 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-9 WG2010915
Analysis started at: 12/19/2024 11:02:14 PM
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 | 0.0525 ppm | 2.3593 ppm | 0.1328 ppm | 1.1927 ppm | 2.3017 ppm | 0.0563 ppm | 53.1043 ppm |
| Concentration per Run 1 | 0.0525 ppm | 2.4482 ppm | 0.1320 ppm | 1.1777 ppm | 2.3845 ppm | 0.0584 ppm | 55.1810 ppm |
| Concentration per Run 2 | 0.0527 ppm | 2.3195 ppm | 0.1345 ppm | 1.2101 ppm | 2.2704 ppm | 0.0554 ppm | 51.9435 ppm |
| Concentration per Run 3 | 0.0523 ppm | 2.3103 ppm | 0.1318 ppm | 1.1903 ppm | 2.2503 ppm | 0.0552 ppm | 52.1884 ppm |
| Concentration RSD | 0.4 % | 3.3 % | 1.1 % | 1.4 % | 3.1 % | 3.2 % | 3.4 % |

| | 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 | 0.0560 ppm | 0.5582 ppm | 0.1987 ppm | 0.2718 ppm | 1.1918 ppm | 19.7893 ppm | 15.7952 ppm |
| Concentration per Run 1 | 0.0551 ppm | 0.5497 ppm | 0.1996 ppm | 0.2740 ppm | 1.2934 ppm | 20.4827 ppm | 15.8550 ppm |
| Concentration per Run 2 | 0.0569 ppm | 0.5669 ppm | 0.1981 ppm | 0.2715 ppm | 1.1669 ppm | 19.4755 ppm | 15.7675 ppm |
| Concentration per Run 3 | 0.0560 ppm | 0.5579 ppm | 0.1983 ppm | 0.2698 ppm | 1.1150 ppm | 19.4095 ppm | 15.7630 ppm |
| Concentration RSD | 1.6 % | 1.5 % | 0.4 % | 0.8 % | 7.7 % | 3.0 % | 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 | 0.6398 ppm | 1.0710 ppm | 112.8541 ppm | 0.5413 ppm | 0.5896 ppm | 0.5635 ppm | 0.1421 ppm |
| Concentration per Run 1 | 0.6654 ppm | 1.0471 ppm | 116.8722 ppm | 0.5331 ppm | 0.5799 ppm | 0.5522 ppm | 0.1384 ppm |
| Concentration per Run 2 | 0.6274 ppm | 1.0886 ppm | 111.2732 ppm | 0.5491 ppm | 0.5981 ppm | 0.5718 ppm | 0.1421 ppm |
| Concentration per Run 3 | 0.6266 ppm | 1.0773 ppm | 110.4170 ppm | 0.5415 ppm | 0.5908 ppm | 0.5664 ppm | 0.1458 ppm |
| Concentration RSD | 3.5 % | 2.0 % | 3.1 % | 1.5 % | 1.5 % | 1.8 % | 2.6 % |

| | 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 | 8.2814 ppm | 1.0445 ppm | 1.3569 ppm | 1.0837 ppm | 0.1297 ppm | 0.5001 ppm | 0.5876 ppm |
| Concentration per Run 1 | 8.2499 ppm | 1.0270 ppm | 1.4059 ppm | 1.0911 ppm | 0.1300 ppm | 0.5010 ppm | 0.5783 ppm |
| Concentration per Run 2 | 8.3470 ppm | 1.0610 ppm | 1.3381 ppm | 1.0818 ppm | 0.1304 ppm | 0.5005 ppm | 0.5970 ppm |
| Concentration per Run 3 | 8.2473 ppm | 1.0456 ppm | 1.3267 ppm | 1.0782 ppm | 0.1288 ppm | 0.4987 ppm | 0.5875 ppm |
| Concentration RSD | 0.7 % | 1.6 % | 3.2 % | 0.6 % | 0.7 % | 0.2 % | 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 | 93.1987 % | 101.8130 % | 101.8853 % | 95.8888 % | 89.4825 % | 101.6553 % | 0.0099 ppm |
| Concentration per Run 1 | 90.0969 % | 101.8825 % | 102.2892 % | 87.8706 % | 90.4953 % | 101.3914 % | 0.0106 ppm |
| Concentration per Run 2 | 94.9588 % | 101.6595 % | 101.3018 % | 97.9706 % | 88.3119 % | 101.6312 % | 0.0099 ppm |
| Concentration per Run 3 | 94.5403 % | 101.8971 % | 102.0649 % | 101.8254 % | 89.6403 % | 101.9433 % | 0.0094 ppm |
| Concentration RSD | 2.9 % | 0.1 % | 0.5 % | 7.5 % | 1.2 % | 0.3 % | 5.9 % |

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-10d5 WG2010915
Analysis started at: 12/19/2024 11:08:38 PM
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 | 0.0001 ppm | 0.0056 ppm | 0.0021 ppm | 0.0174 ppm | 0.0076 ppm | 0.0000 ppm | 8.6459 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0079 ppm | 0.0025 ppm | 0.0178 ppm | 0.0079 ppm | 0.0000 ppm | 8.9482 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0050 ppm | 0.0010 ppm | 0.0173 ppm | 0.0076 ppm | 0.0000 ppm | 8.4672 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0038 ppm | 0.0027 ppm | 0.0171 ppm | 0.0073 ppm | 0.0000 ppm | 8.5222 ppm |
| Concentration RSD | 70.2 % | 37.7 % | 44.9 % | 2.0 % | 4.2 % | 764.8 % | 3.0 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0001 ppm | -0.0002 ppm | -0.0002 ppm | 0.0006 ppm | 0.0035 ppm | 1.5731 ppm | 1.1230 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0002 ppm | -0.0003 ppm | 0.0006 ppm | 0.0040 ppm | 1.6068 ppm | 1.1128 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0003 ppm | 0.0000 ppm | 0.0000 ppm | 0.0038 ppm | 1.5502 ppm | 0.0000 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0000 ppm | -0.0001 ppm | 0.0006 ppm | 0.0025 ppm | 1.5622 ppm | 1.1332 ppm |
| Concentration RSD | 19.4 % | 66.0 % | 66.7 % | 5.6 % | 23.5 % | 1.9 % | 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 | 0.0200 ppm | 0.0025 ppm | 20.2696 ppm | 0.0002 ppm | -0.0001 ppm | 0.0032 ppm | -0.0013 ppm |
| Concentration per Run 1 | 0.0214 ppm | 0.0029 ppm | 20.9145 ppm | 0.0002 ppm | -0.0001 ppm | 0.0026 ppm | -0.0006 ppm |
| Concentration per Run 2 | 0.0194 ppm | 0.0026 ppm | 20.0111 ppm | 0.0002 ppm | 0.0003 ppm | 0.0037 ppm | -0.0015 ppm |
| Concentration per Run 3 | 0.0191 ppm | 0.0020 ppm | 19.8834 ppm | 0.0003 ppm | -0.0004 ppm | 0.0034 ppm | -0.0017 ppm |
| Concentration RSD | 6.3 % | 18.2 % | 2.8 % | 24.4 % | 648.1 % | 17.1 % | 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 | 1.4229 ppm | 0.0025 ppm | 0.0486 ppm | 0.0003 ppm | 0.0013 ppm | 0.0000 ppm | 0.0032 ppm |
| Concentration per Run 1 | 1.4218 ppm | 0.0029 ppm | 0.0501 ppm | 0.0004 ppm | 0.0012 ppm | 0.0000 ppm | 0.0032 ppm |
| Concentration per Run 2 | 1.4238 ppm | 0.0026 ppm | 0.0479 ppm | 0.0000 ppm | 0.0005 ppm | -0.0001 ppm | 0.0032 ppm |
| Concentration per Run 3 | 1.4232 ppm | 0.0020 ppm | 0.0478 ppm | 0.0003 ppm | 0.0024 ppm | 0.0001 ppm | 0.0031 ppm |
| Concentration RSD | 0.1 % | 17.4 % | 2.7 % | 7.5 % | 73.1 % | 301.2 % | 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 | 94.0637 % | 105.7721 % | 106.4785 % | 97.8477 % | 98.5188 % | 103.4643 % | 0.0021 ppm |
| Concentration per Run 1 | 91.3918 % | 104.7988 % | 106.3418 % | 90.4633 % | 98.0145 % | 104.4740 % | 0.0029 ppm |
| Concentration per Run 2 | 95.7700 % | 109.0179 % | 106.7797 % | 100.2188 % | 99.2153 % | 0.0000 % | 0.0010 ppm |
| Concentration per Run 3 | 95.0294 % | 103.4997 % | 106.3141 % | 102.8610 % | 98.3266 % | 102.4546 % | 0.0024 ppm |
| Concentration RSD | 2.5 % | 2.7 % | 0.2 % | 6.7 % | 0.6 % | 1.4 % | 47.8 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 11:15:18 PM
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 | 0.4615 ppm | 0.5006 ppm | 0.4645 ppm | 0.4958 ppm | 0.4891 ppm | 0.4882 ppm | 0.5072 ppm |
| Concentration per Run 1 | 0.4695 ppm | 0.5135 ppm | 0.4658 ppm | 0.4995 ppm | 0.5016 ppm | 0.5005 ppm | 0.5161 ppm |
| Concentration per Run 2 | 0.4683 ppm | 0.4944 ppm | 0.4631 ppm | 0.4925 ppm | 0.4838 ppm | 0.4828 ppm | 0.4965 ppm |
| Concentration per Run 3 | 0.4467 ppm | 0.4939 ppm | 0.4645 ppm | 0.4953 ppm | 0.4819 ppm | 0.4814 ppm | 0.5090 ppm |
| Recovery Percentage 1 | 92.296 % | 100.122 % | 92.901 % | 99.153 % | 97.822 % | 97.643 % | 101.444 % |
| Concentration RSD | 2.8 % | 2.2 % | 0.3 % | 0.7 % | 2.2 % | 2.2 % | 2.0 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.4804 ppm | 0.5140 ppm | 0.4562 ppm | 0.4573 ppm | 0.4697 ppm | 5.1421 ppm | 0.4800 ppm |
| Concentration per Run 1 | 0.4824 ppm | 0.5168 ppm | 0.4663 ppm | 0.4634 ppm | 0.4878 ppm | 5.2445 ppm | 0.4894 ppm |
| Concentration per Run 2 | 0.4808 ppm | 0.5124 ppm | 0.4599 ppm | 0.4671 ppm | 0.4655 ppm | 5.1017 ppm | 0.4835 ppm |
| Concentration per Run 3 | 0.4780 ppm | 0.5129 ppm | 0.4423 ppm | 0.4415 ppm | 0.4558 ppm | 5.0801 ppm | 0.4671 ppm |
| Recovery Percentage 1 | 96.082 % | 102.807 % | 91.239 % | 91.466 % | 93.939 % | 102.842 % | 96.003 % |
| Concentration RSD | 0.5 % | 0.5 % | 2.7 % | 3.0 % | 3.5 % | 1.7 % | 2.4 % |

| | 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 | 0.4690 ppm | 0.4910 ppm | 10.4788 ppm | 0.4955 ppm | 0.5073 ppm | 0.5150 ppm | 0.5018 ppm |
| Concentration per Run 1 | 0.4792 ppm | 0.4926 ppm | 10.7330 ppm | 0.4986 ppm | 0.5102 ppm | 0.5197 ppm | 0.5091 ppm |
| Concentration per Run 2 | 0.4637 ppm | 0.4887 ppm | 10.3604 ppm | 0.4930 ppm | 0.5063 ppm | 0.5107 ppm | 0.4974 ppm |
| Concentration per Run 3 | 0.4641 ppm | 0.4917 ppm | 10.3430 ppm | 0.4948 ppm | 0.5054 ppm | 0.5146 ppm | 0.4988 ppm |
| Recovery Percentage 1 | 93.800 % | 98.196 % | 104.788 % | 99.101 % | 101.458 % | 103.000 % | 100.354 % |
| Concentration RSD | 1.9 % | 0.4 % | 2.1 % | 0.6 % | 0.5 % | 0.9 % | 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 | 5.5943 ppm | 0.4873 ppm | 0.5047 ppm | 0.4865 ppm | 0.4964 ppm | 0.4616 ppm | 0.5110 ppm |
| Concentration per Run 1 | 5.5986 ppm | 0.4922 ppm | 0.5172 ppm | 0.4952 ppm | 0.4987 ppm | 0.4714 ppm | 0.5130 ppm |
| Concentration per Run 2 | 5.5748 ppm | 0.4872 ppm | 0.4996 ppm | 0.4932 ppm | 0.4942 ppm | 0.4667 ppm | 0.5119 ppm |
| Concentration per Run 3 | 5.6094 ppm | 0.4825 ppm | 0.4973 ppm | 0.4712 ppm | 0.4962 ppm | 0.4468 ppm | 0.5082 ppm |
| Recovery Percentage 1 | 106.558 % | 97.459 % | 100.939 % | 97.306 % | 99.271 % | 92.327 % | 102.207 % |
| Concentration RSD | 0.3 % | 1.0 % | 2.2 % | 2.7 % | 0.5 % | 2.8 % | 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 | 93.5659 % | 105.1078 % | 107.2162 % | 105.6196 % | 98.2106 % | 107.2450 % | 0.5057 ppm |
| Concentration per Run 1 | 91.4156 % | 104.8070 % | 107.1905 % | 101.2612 % | 97.6202 % | 105.6216 % | 0.5270 ppm |
| Concentration per Run 2 | 94.9443 % | 104.5885 % | 107.7034 % | 107.4948 % | 98.9070 % | 105.3870 % | 0.5000 ppm |
| Concentration per Run 3 | 94.3377 % | 105.9279 % | 106.7546 % | 108.1027 % | 98.1045 % | 110.7263 % | 0.4901 ppm |
| Recovery Percentage 1 | | | | | | | 101.140 % |
| Concentration RSD | 2.0 % | 0.7 % | 0.4 % | 3.6 % | 0.7 % | 2.8 % | 3.8 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/19/2024 11:21:44 PM
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 | 0.0007 ppm | 0.0023 ppm | 0.0000 ppm | 0.0000 ppm | 0.0226 ppm |
| Concentration per Run 1 | 0.0004 ppm | -0.0009 ppm | 0.0019 ppm | 0.0023 ppm | 0.0000 ppm | 0.0000 ppm | 0.0228 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0016 ppm | 0.0004 ppm | 0.0022 ppm | 0.0000 ppm | 0.0000 ppm | 0.0290 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0034 ppm | -0.0003 ppm | 0.0024 ppm | 0.0001 ppm | 0.0000 ppm | 0.0161 ppm |
| Recovery Percentage 1 | 1.909 % | -1.942 % | 13.123 % | 7.596 % | -0.033 % | -0.027 % | 22.621 % |
| Concentration RSD | 169.5 % | 66.1 % | 168.3 % | 4.2 % | 2,233.8 % | 1,262.2 % | 28.7 % |

| | 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 | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | -0.0001 ppm | -0.0003 ppm | 0.0241 ppm | 0.0003 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0001 ppm | 0.0000 ppm | -0.0002 ppm | -0.0013 ppm | 0.0412 ppm | 0.0002 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0001 ppm | 0.0001 ppm | 0.0000 ppm | 0.0007 ppm | 0.0122 ppm | 0.0018 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0000 ppm | -0.0002 ppm | -0.0001 ppm | -0.0003 ppm | 0.0187 ppm | -0.0010 ppm |
| Recovery Percentage 1 | 0.637 % | -0.226 % | -0.412 % | -0.790 % | -0.622 % | 0.962 % | 0.333 % |
| Concentration RSD | 41.7 % | 173.3 % | 433.8 % | 151.9 % | 329.9 % | 63.3 % | 414.1 % |

| | 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 | 0.0009 ppm | 0.0099 ppm | 0.0000 ppm | 0.0002 ppm | 0.0020 ppm | 0.0014 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0010 ppm | 0.0113 ppm | -0.0001 ppm | 0.0002 ppm | 0.0033 ppm | 0.0002 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0011 ppm | 0.0095 ppm | 0.0001 ppm | 0.0005 ppm | 0.0013 ppm | 0.0023 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0006 ppm | 0.0088 ppm | 0.0001 ppm | 0.0000 ppm | 0.0014 ppm | 0.0015 ppm |
| Recovery Percentage 1 | 0.463 % | 1.834 % | 0.493 % | 0.094 % | 2.349 % | 4.018 % | 13.548 % |
| Concentration RSD | 188.4 % | 29.4 % | 12.8 % | 297.7 % | 98.5 % | 56.5 % | 76.3 % |

| | 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 | 0.0022 ppm | 0.0010 ppm | 0.0001 ppm | 0.0001 ppm | 0.0007 ppm | -0.0002 ppm | 0.0002 ppm |
| Concentration per Run 1 | 0.0021 ppm | 0.0014 ppm | 0.0001 ppm | 0.0000 ppm | 0.0005 ppm | -0.0004 ppm | 0.0003 ppm |
| Concentration per Run 2 | 0.0023 ppm | 0.0008 ppm | 0.0001 ppm | 0.0002 ppm | 0.0016 ppm | -0.0001 ppm | 0.0002 ppm |
| Concentration per Run 3 | 0.0023 ppm | 0.0008 ppm | 0.0000 ppm | 0.0001 ppm | 0.0000 ppm | -0.0003 ppm | 0.0001 ppm |
| Recovery Percentage 1 | 0.448 % | 1.988 % | 0.504 % | 1.166 % | 3.361 % | -2.432 % | 3.844 % |
| Concentration RSD | 5.4 % | 32.9 % | 151.2 % | 56.1 % | 121.9 % | 73.9 % | 64.2 % |

| | 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 | 94.1924 % | 105.9760 % | 108.2167 % | 102.6300 % | 100.1693 % | 105.7530 % | 0.0003 ppm |
| Concentration per Run 1 | 93.0693 % | 105.8839 % | 108.4103 % | 97.8843 % | 100.0984 % | 105.6272 % | 0.0002 ppm |
| Concentration per Run 2 | 94.3748 % | 106.2716 % | 108.3370 % | 103.7472 % | 100.8011 % | 105.9529 % | 0.0000 ppm |
| Concentration per Run 3 | 95.1332 % | 105.7725 % | 107.9028 % | 106.2586 % | 99.6082 % | 105.6790 % | 0.0006 ppm |
| Recovery Percentage 1 | | | | | | | 2.556 % |
| Concentration RSD | 1.1 % | 0.2 % | 0.3 % | 4.2 % | 0.6 % | 0.2 % | 126.0 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2474329-02 WG2010915
Analysis started at: 12/19/2024 11:28:31 PM
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 | 0.0001 ppm | 0.0163 ppm | 0.0006 ppm | 0.0071 ppm | 0.0155 ppm | 0.0000 ppm | 12.1681 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.0204 ppm | 0.0014 ppm | 0.0071 ppm | 0.0160 ppm | 0.0000 ppm | 12.8076 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0096 ppm | -0.0011 ppm | 0.0069 ppm | 0.0152 ppm | 0.0000 ppm | 11.7871 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0191 ppm | 0.0015 ppm | 0.0072 ppm | 0.0153 ppm | 0.0000 ppm | 11.9097 ppm |
| Concentration RSD | 165.0 % | 36.1 % | 249.5 % | 1.7 % | 2.9 % | 236.0 % | 4.6 % |

| | 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 | -0.0003 ppm | 0.0034 ppm | 0.0008 ppm | 0.0204 ppm | 0.9930 ppm | 5.7506 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0004 ppm | 0.0036 ppm | 0.0008 ppm | 0.0212 ppm | 1.0243 ppm | 5.7793 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0002 ppm | 0.0035 ppm | 0.0007 ppm | 0.0203 ppm | 0.9749 ppm | 5.7278 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0002 ppm | 0.0032 ppm | 0.0007 ppm | 0.0198 ppm | 0.9797 ppm | 5.7446 ppm |
| Concentration RSD | 55.0 % | 29.3 % | 6.3 % | 8.4 % | 3.3 % | 2.7 % | 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 | 0.0004 ppm | 9.1215 ppm | 0.0007 ppm | -0.0022 ppm | 0.0004 ppm | 0.0007 ppm |
| Concentration per Run 1 | 0.0005 ppm | 0.0004 ppm | 9.4652 ppm | 0.0009 ppm | -0.0022 ppm | -0.0001 ppm | -0.0022 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0005 ppm | 8.9748 ppm | 0.0005 ppm | -0.0020 ppm | -0.0005 ppm | 0.0025 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0004 ppm | 8.9244 ppm | 0.0007 ppm | -0.0023 ppm | 0.0017 ppm | 0.0017 ppm |
| Concentration RSD | 121.0 % | 11.7 % | 3.3 % | 26.5 % | 7.0 % | 307.8 % | 386.8 % |

| | 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 | 10.0805 ppm | 0.0001 ppm | 0.0504 ppm | 0.0007 ppm | 0.0010 ppm | 0.0001 ppm | 0.0004 ppm |
| Concentration per Run 1 | 10.0862 ppm | 0.0005 ppm | 0.0524 ppm | 0.0009 ppm | 0.0020 ppm | 0.0003 ppm | 0.0004 ppm |
| Concentration per Run 2 | 10.0805 ppm | -0.0002 ppm | 0.0495 ppm | 0.0008 ppm | -0.0003 ppm | 0.0000 ppm | 0.0004 ppm |
| Concentration per Run 3 | 10.0747 ppm | -0.0001 ppm | 0.0494 ppm | 0.0005 ppm | 0.0014 ppm | 0.0001 ppm | 0.0003 ppm |
| Concentration RSD | 0.1 % | 525.2 % | 3.4 % | 27.7 % | 114.4 % | 140.0 % | 16.4 % |

| | 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 | 93.5414 % | 105.7786 % | 107.2181 % | 92.4877 % | 98.9436 % | 103.4209 % | 0.0045 ppm |
| Concentration per Run 1 | 89.9515 % | 106.0656 % | 107.2507 % | 83.9835 % | 98.3031 % | 103.1879 % | 0.0052 ppm |
| Concentration per Run 2 | 95.4681 % | 106.0803 % | 107.1546 % | 94.8597 % | 99.0470 % | 103.6563 % | 0.0039 ppm |
| Concentration per Run 3 | 95.2046 % | 105.1899 % | 107.2490 % | 98.6199 % | 99.4808 % | 103.4186 % | 0.0042 ppm |
| Concentration RSD | 3.3 % | 0.5 % | 0.1 % | 8.2 % | 0.6 % | 0.2 % | 14.9 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2474329-03 WG2010915
Analysis started at: 12/19/2024 11:35:11 PM
Rack: 2
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 | 0.0001 ppm | 0.0557 ppm | 0.0015 ppm | 0.0183 ppm | 0.0732 ppm | 0.0000 ppm | 8.4468 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0631 ppm | 0.0020 ppm | 0.0189 ppm | 0.0761 ppm | 0.0000 ppm | 8.7664 ppm |
| Concentration per Run 2 | 0.0003 ppm | 0.0555 ppm | 0.0011 ppm | 0.0181 ppm | 0.0720 ppm | -0.0001 ppm | 8.2840 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0484 ppm | 0.0014 ppm | 0.0180 ppm | 0.0715 ppm | 0.0000 ppm | 8.2899 ppm |
| Concentration RSD | 133.4 % | 13.2 % | 29.3 % | 2.6 % | 3.5 % | 134.6 % | 3.3 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0001 ppm | 0.0002 ppm | 0.0115 ppm | 0.0013 ppm | 0.1880 ppm | 1.4027 ppm | 2.7513 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0000 ppm | 0.0114 ppm | 0.0015 ppm | 0.2021 ppm | 1.4655 ppm | 2.7689 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0002 ppm | 0.0113 ppm | 0.0014 ppm | 0.1864 ppm | 1.3526 ppm | 2.7538 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0002 ppm | 0.0119 ppm | 0.0012 ppm | 0.1757 ppm | 1.3899 ppm | 2.7312 ppm |
| Concentration RSD | 20.6 % | 69.7 % | 2.8 % | 8.2 % | 7.1 % | 4.1 % | 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 | 0.0356 ppm | 0.0004 ppm | 70.0317 ppm | 0.0105 ppm | -0.0011 ppm | 0.0000 ppm | 0.0019 ppm |
| Concentration per Run 1 | 0.0372 ppm | 0.0006 ppm | 72.7880 ppm | 0.0106 ppm | -0.0014 ppm | 0.0001 ppm | 0.0019 ppm |
| Concentration per Run 2 | 0.0348 ppm | 0.0005 ppm | 68.7346 ppm | 0.0105 ppm | -0.0014 ppm | -0.0003 ppm | 0.0013 ppm |
| Concentration per Run 3 | 0.0350 ppm | 0.0002 ppm | 68.5725 ppm | 0.0105 ppm | -0.0005 ppm | 0.0002 ppm | 0.0023 ppm |
| Concentration RSD | 3.7 % | 43.1 % | 3.4 % | 0.5 % | 44.3 % | 929.1 % | 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 | 5.6774 ppm | 0.0003 ppm | 0.0438 ppm | 0.0021 ppm | 0.0009 ppm | 0.0001 ppm | 0.0099 ppm |
| Concentration per Run 1 | 5.7939 ppm | 0.0002 ppm | 0.0455 ppm | 0.0021 ppm | 0.0012 ppm | -0.0001 ppm | 0.0102 ppm |
| Concentration per Run 2 | 5.6033 ppm | 0.0006 ppm | 0.0431 ppm | 0.0019 ppm | 0.0005 ppm | 0.0002 ppm | 0.0098 ppm |
| Concentration per Run 3 | 5.6349 ppm | 0.0000 ppm | 0.0427 ppm | 0.0022 ppm | 0.0010 ppm | 0.0002 ppm | 0.0097 ppm |
| Concentration RSD | 1.8 % | 111.1 % | 3.4 % | 6.8 % | 38.3 % | 206.8 % | 2.5 % |

| | 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 | 94.3703 % | 103.8864 % | 103.9181 % | 92.9530 % | 93.9971 % | 100.4300 % | 0.0007 ppm |
| Concentration per Run 1 | 91.3672 % | 103.3251 % | 102.3808 % | 85.3634 % | 92.5224 % | 99.1764 % | 0.0002 ppm |
| Concentration per Run 2 | 95.8499 % | 104.6424 % | 104.9285 % | 94.8639 % | 94.2361 % | 101.2326 % | 0.0008 ppm |
| Concentration per Run 3 | 95.8938 % | 103.6918 % | 104.4449 % | 98.6317 % | 95.2329 % | 100.8808 % | 0.0009 ppm |
| Concentration RSD | 2.8 % | 0.7 % | 1.3 % | 7.4 % | 1.5 % | 1.1 % | 56.1 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2474329-04 WG2010915
Analysis started at: 12/19/2024 11:41:52 PM
Rack: 2
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 | 0.0521 ppm | 0.0000 ppm | 0.0144 ppm | 0.0368 ppm | 0.0000 ppm | 13.5471 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0550 ppm | 0.0002 ppm | 0.0144 ppm | 0.0379 ppm | 0.0000 ppm | 13.9854 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0515 ppm | 0.0005 ppm | 0.0142 ppm | 0.0361 ppm | -0.0001 ppm | 13.2762 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0498 ppm | -0.0006 ppm | 0.0147 ppm | 0.0363 ppm | 0.0000 ppm | 13.3797 ppm |
| Concentration RSD | 390.5 % | 5.1 % | 4,602.5 % | 1.6 % | 2.7 % | 1,004.9 % | 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 | 0.0001 ppm | -0.0002 ppm | 0.0044 ppm | 0.0005 ppm | 0.0474 ppm | 1.1066 ppm | 5.4382 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0002 ppm | 0.0045 ppm | 0.0005 ppm | 0.0511 ppm | 1.1452 ppm | 5.4904 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0003 ppm | 0.0045 ppm | 0.0004 ppm | 0.0476 ppm | 1.0898 ppm | 5.4188 ppm |
| Concentration per Run 3 | 0.0001 ppm | -0.0001 ppm | 0.0043 ppm | 0.0006 ppm | 0.0436 ppm | 1.0847 ppm | 5.4055 ppm |
| Concentration RSD | 19.9 % | 33.9 % | 3.2 % | 15.6 % | 7.9 % | 3.0 % | 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 | 0.0009 ppm | 0.0000 ppm | 14.5302 ppm | 0.0044 ppm | -0.0022 ppm | 0.0006 ppm | 0.0004 ppm |
| Concentration per Run 1 | 0.0012 ppm | 0.0000 ppm | 14.9747 ppm | 0.0043 ppm | -0.0021 ppm | 0.0009 ppm | 0.0032 ppm |
| Concentration per Run 2 | 0.0008 ppm | 0.0000 ppm | 14.2632 ppm | 0.0044 ppm | -0.0026 ppm | 0.0009 ppm | -0.0014 ppm |
| Concentration per Run 3 | 0.0008 ppm | 0.0001 ppm | 14.3528 ppm | 0.0044 ppm | -0.0020 ppm | 0.0002 ppm | -0.0005 ppm |
| Concentration RSD | 26.7 % | 348.3 % | 2.7 % | 1.6 % | 14.3 % | 58.2 % | 560.4 % |

| | 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 | 10.0808 ppm | 0.0000 ppm | 0.0792 ppm | 0.0021 ppm | 0.0011 ppm | 0.0005 ppm | 0.0100 ppm |
| Concentration per Run 1 | 10.0436 ppm | -0.0002 ppm | 0.0816 ppm | 0.0023 ppm | 0.0018 ppm | 0.0005 ppm | 0.0099 ppm |
| Concentration per Run 2 | 9.9944 ppm | 0.0009 ppm | 0.0779 ppm | 0.0018 ppm | 0.0011 ppm | 0.0005 ppm | 0.0100 ppm |
| Concentration per Run 3 | 10.2043 ppm | -0.0006 ppm | 0.0782 ppm | 0.0021 ppm | 0.0005 ppm | 0.0004 ppm | 0.0100 ppm |
| Concentration RSD | 1.1 % | 3,611.4 % | 2.6 % | 12.0 % | 58.0 % | 13.9 % | 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 | 94.3741 % | 105.7640 % | 106.6554 % | 92.4052 % | 97.3764 % | 103.2174 % | 0.0032 ppm |
| Concentration per Run 1 | 91.3491 % | 105.8453 % | 107.0269 % | 84.1259 % | 97.0288 % | 102.8008 % | 0.0028 ppm |
| Concentration per Run 2 | 96.0546 % | 105.8777 % | 107.5690 % | 94.5354 % | 98.5100 % | 103.4232 % | 0.0036 ppm |
| Concentration per Run 3 | 95.7186 % | 105.5691 % | 105.3703 % | 98.5542 % | 96.5905 % | 103.4284 % | 0.0031 ppm |
| Concentration RSD | 2.8 % | 0.2 % | 1.1 % | 8.1 % | 1.0 % | 0.3 % | 13.8 % |

LabBook: WG2011242_12192024T6.imexp

Sample: L2474329-05 WG2010915
Analysis started at: 12/19/2024 11:48:32 PM
Rack: 2
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 | 0.0000 ppm | 0.0012 ppm | 0.0008 ppm | 0.0011 ppm | 0.0002 ppm | 0.0000 ppm | 0.0156 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0050 ppm | 0.0007 ppm | 0.0013 ppm | 0.0001 ppm | 0.0000 ppm | 0.0101 ppm |
| Concentration per Run 2 | 0.0002 ppm | -0.0008 ppm | 0.0017 ppm | 0.0007 ppm | 0.0003 ppm | 0.0000 ppm | 0.0151 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0006 ppm | 0.0001 ppm | 0.0012 ppm | 0.0001 ppm | 0.0000 ppm | 0.0217 ppm |
| Concentration RSD | 275.9 % | 273.7 % | 90.7 % | 28.3 % | 64.7 % | 510.9 % | 37.5 % |

| | 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 | -0.0001 ppm | 0.0006 ppm | 0.0021 ppm | -0.0197 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0000 ppm | -0.0001 ppm | 0.0007 ppm | 0.0032 ppm | -0.0122 ppm | 0.0009 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | -0.0001 ppm | 0.0006 ppm | 0.0008 ppm | -0.0207 ppm | 0.0003 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0002 ppm | -0.0002 ppm | 0.0005 ppm | 0.0025 ppm | -0.0260 ppm | -0.0008 ppm |
| Concentration RSD | 23.4 % | 178.7 % | 71.0 % | 11.8 % | 58.6 % | 35.5 % | 598.0 % |

| | 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 | -0.0002 ppm | 0.0001 ppm | 0.0101 ppm | 0.0003 ppm | 0.0007 ppm | -0.0001 ppm | -0.0013 ppm |
| Concentration per Run 1 | -0.0004 ppm | 0.0001 ppm | 0.0108 ppm | 0.0002 ppm | 0.0006 ppm | -0.0004 ppm | -0.0018 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0001 ppm | 0.0159 ppm | 0.0004 ppm | 0.0007 ppm | 0.0009 ppm | -0.0023 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0001 ppm | 0.0037 ppm | 0.0003 ppm | 0.0007 ppm | -0.0009 ppm | 0.0001 ppm |
| Concentration RSD | 76.6 % | 44.6 % | 60.6 % | 27.7 % | 11.4 % | 773.7 % | 93.4 % |

| | 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 | 0.0084 ppm | 0.0000 ppm | 0.0002 ppm | -0.0001 ppm | 0.0010 ppm | -0.0002 ppm | -0.0004 ppm |
| Concentration per Run 1 | 0.0082 ppm | 0.0001 ppm | 0.0002 ppm | -0.0002 ppm | 0.0009 ppm | -0.0002 ppm | -0.0004 ppm |
| Concentration per Run 2 | 0.0079 ppm | -0.0001 ppm | 0.0003 ppm | 0.0001 ppm | 0.0008 ppm | -0.0001 ppm | -0.0004 ppm |
| Concentration per Run 3 | 0.0091 ppm | -0.0002 ppm | 0.0002 ppm | -0.0002 ppm | 0.0014 ppm | -0.0002 ppm | -0.0003 ppm |
| Concentration RSD | 7.3 % | 536.4 % | 32.1 % | 229.2 % | 34.2 % | 32.0 % | 16.0 % |

| | 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 | 94.6631 % | 106.5412 % | 108.6161 % | 92.9940 % | 101.6384 % | 103.6673 % | -0.0001 ppm |
| Concentration per Run 1 | 92.9731 % | 106.7148 % | 109.0664 % | 86.2869 % | 101.1985 % | 103.4358 % | 0.0010 ppm |
| Concentration per Run 2 | 95.3604 % | 106.2207 % | 108.3039 % | 94.6401 % | 101.4562 % | 103.2801 % | -0.0001 ppm |
| Concentration per Run 3 | 95.6558 % | 106.6881 % | 108.4779 % | 98.0549 % | 102.2605 % | 104.2860 % | -0.0012 ppm |
| Concentration RSD | 1.6 % | 0.3 % | 0.4 % | 6.5 % | 0.5 % | 0.5 % | 1,107.6 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 11:55:17 PM
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 | 0.4674 ppm | 0.4974 ppm | 0.4605 ppm | 0.4884 ppm | 0.4898 ppm | 0.4870 ppm | 0.5100 ppm |
| Concentration per Run 1 | 0.4669 ppm | 0.5070 ppm | 0.4599 ppm | 0.4886 ppm | 0.5050 ppm | 0.4997 ppm | 0.5258 ppm |
| Concentration per Run 2 | 0.4680 ppm | 0.4936 ppm | 0.4612 ppm | 0.4882 ppm | 0.4821 ppm | 0.4825 ppm | 0.5050 ppm |
| Concentration per Run 3 | 0.4673 ppm | 0.4915 ppm | 0.4604 ppm | 0.4884 ppm | 0.4823 ppm | 0.4787 ppm | 0.4990 ppm |
| Recovery Percentage 1 | 93.483 % | 99.476 % | 92.098 % | 97.683 % | 97.954 % | 97.394 % | 101.992 % |
| Concentration RSD | 0.1 % | 1.7 % | 0.1 % | 0.0 % | 2.7 % | 2.3 % | 2.8 % |

| | Cd 214.438 {457} (Axial) | Co 228.616 {447} (Axial) | Cr 267.716 {126} (Axial) | Cu 324.754 {104} (Axial) | Fe 259.940 {130} (Radial) | K 766.490 {44} (Radial) | Mg 279.079 {121} (Axial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.4762 ppm | 0.5087 ppm | 0.4630 ppm | 0.4647 ppm | 0.4711 ppm | 5.1520 ppm | 0.4856 ppm |
| Concentration per Run 1 | 0.4775 ppm | 0.5099 ppm | 0.4609 ppm | 0.4648 ppm | 0.4948 ppm | 5.2854 ppm | 0.4845 ppm |
| Concentration per Run 2 | 0.4767 ppm | 0.5098 ppm | 0.4637 ppm | 0.4643 ppm | 0.4634 ppm | 5.0718 ppm | 0.4862 ppm |
| Concentration per Run 3 | 0.4744 ppm | 0.5064 ppm | 0.4644 ppm | 0.4649 ppm | 0.4551 ppm | 5.0989 ppm | 0.4861 ppm |
| Recovery Percentage 1 | 95.231 % | 101.738 % | 92.599 % | 92.938 % | 94.217 % | 103.041 % | 97.112 % |
| Concentration RSD | 0.3 % | 0.4 % | 0.4 % | 0.1 % | 4.4 % | 2.3 % | 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 | 0.4698 ppm | 0.4853 ppm | 10.4876 ppm | 0.4915 ppm | 0.5038 ppm | 0.5078 ppm | 0.4975 ppm |
| Concentration per Run 1 | 0.4824 ppm | 0.4849 ppm | 10.7941 ppm | 0.4933 ppm | 0.5038 ppm | 0.5084 ppm | 0.4952 ppm |
| Concentration per Run 2 | 0.4664 ppm | 0.4856 ppm | 10.3387 ppm | 0.4913 ppm | 0.5043 ppm | 0.5074 ppm | 0.4995 ppm |
| Concentration per Run 3 | 0.4605 ppm | 0.4854 ppm | 10.3299 ppm | 0.4897 ppm | 0.5032 ppm | 0.5077 ppm | 0.4977 ppm |
| Recovery Percentage 1 | 93.958 % | 97.061 % | 104.876 % | 98.292 % | 100.755 % | 101.567 % | 99.499 % |
| Concentration RSD | 2.4 % | 0.1 % | 2.5 % | 0.4 % | 0.1 % | 0.1 % | 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 | 5.5568 ppm | 0.4816 ppm | 0.5048 ppm | 0.4921 ppm | 0.4931 ppm | 0.4683 ppm | 0.5067 ppm |
| Concentration per Run 1 | 5.5524 ppm | 0.4827 ppm | 0.5198 ppm | 0.4921 ppm | 0.4934 ppm | 0.4684 ppm | 0.5085 ppm |
| Concentration per Run 2 | 5.5620 ppm | 0.4822 ppm | 0.4974 ppm | 0.4922 ppm | 0.4934 ppm | 0.4683 ppm | 0.5069 ppm |
| Concentration per Run 3 | 5.5562 ppm | 0.4797 ppm | 0.4974 ppm | 0.4919 ppm | 0.4924 ppm | 0.4683 ppm | 0.5049 ppm |
| Recovery Percentage 1 | 105.845 % | 96.311 % | 100.969 % | 98.418 % | 98.613 % | 93.666 % | 101.349 % |
| Concentration RSD | 0.1 % | 0.3 % | 2.6 % | 0.0 % | 0.1 % | 0.0 % | 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 | 92.5245 % | 105.3785 % | 108.2012 % | 104.0915 % | 99.4600 % | 106.1098 % | 0.5058 ppm |
| Concentration per Run 1 | 90.1028 % | 105.3464 % | 108.4438 % | 99.1270 % | 99.4395 % | 106.0808 % | 0.5316 ppm |
| Concentration per Run 2 | 93.5728 % | 105.3035 % | 108.2761 % | 105.5060 % | 99.5188 % | 106.0428 % | 0.4959 ppm |
| Concentration per Run 3 | 93.8978 % | 105.4857 % | 107.8836 % | 107.6415 % | 99.4216 % | 106.2057 % | 0.4900 ppm |
| Recovery Percentage 1 | | | | | | | 101.170 % |
| Concentration RSD | 2.3 % | 0.1 % | 0.3 % | 4.3 % | 0.1 % | 0.1 % | 4.4 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/20/2024 12:01:43 AM
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 | -0.0012 ppm | 0.0002 ppm | 0.0012 ppm | 0.0001 ppm | 0.0000 ppm | 0.0291 ppm |
| Concentration per Run 1 | 0.0002 ppm | -0.0039 ppm | 0.0000 ppm | 0.0013 ppm | 0.0000 ppm | 0.0000 ppm | 0.0308 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0069 ppm | 0.0007 ppm | 0.0013 ppm | 0.0002 ppm | 0.0000 ppm | 0.0260 ppm |
| Concentration per Run 3 | 0.0002 ppm | -0.0066 ppm | -0.0001 ppm | 0.0010 ppm | 0.0001 ppm | 0.0000 ppm | 0.0304 ppm |
| Recovery Percentage 1 | 2.687 % | -1.168 % | 4.198 % | 3.973 % | 0.754 % | -0.168 % | 29.074 % |
| Concentration RSD | 23.2 % | 612.8 % | 209.7 % | 13.4 % | 125.6 % | 379.1 % | 9.1 % |

| | 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 | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0051 ppm | -0.0008 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0001 ppm | 0.0002 ppm | -0.0001 ppm | 0.0001 ppm | 0.0256 ppm | -0.0014 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0001 ppm | -0.0001 ppm | 0.0001 ppm | 0.0002 ppm | -0.0212 ppm | -0.0004 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0001 ppm | 0.0000 ppm | 0.0001 ppm | -0.0003 ppm | 0.0109 ppm | -0.0007 ppm |
| Recovery Percentage 1 | 1.706 % | -0.191 % | 0.331 % | 0.367 % | 0.019 % | 0.205 % | -0.809 % |
| Concentration RSD | 33.7 % | 300.3 % | 389.2 % | 330.9 % | 2,975.4 % | 466.6 % | 63.2 % |

| | 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 | -0.0003 ppm | 0.0009 ppm | 0.0085 ppm | -0.0001 ppm | 0.0001 ppm | 0.0013 ppm | 0.0014 ppm |
| Concentration per Run 1 | -0.0006 ppm | 0.0011 ppm | 0.0058 ppm | -0.0002 ppm | -0.0002 ppm | 0.0005 ppm | 0.0010 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0008 ppm | 0.0112 ppm | 0.0001 ppm | 0.0005 ppm | 0.0003 ppm | 0.0018 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0007 ppm | 0.0085 ppm | -0.0003 ppm | 0.0001 ppm | 0.0032 ppm | 0.0014 ppm |
| Recovery Percentage 1 | -3.025 % | 1.747 % | 0.425 % | -0.515 % | 1.260 % | 2.667 % | 14.202 % |
| Concentration RSD | 80.7 % | 22.4 % | 31.5 % | 159.3 % | 298.8 % | 118.7 % | 29.6 % |

| | 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 | 0.0021 ppm | 0.0006 ppm | 0.0000 ppm | 0.0000 ppm | 0.0003 ppm | -0.0002 ppm | 0.0003 ppm |
| Concentration per Run 1 | 0.0021 ppm | 0.0006 ppm | 0.0000 ppm | 0.0002 ppm | 0.0002 ppm | -0.0002 ppm | 0.0004 ppm |
| Concentration per Run 2 | 0.0022 ppm | 0.0010 ppm | 0.0001 ppm | -0.0001 ppm | 0.0004 ppm | -0.0002 ppm | 0.0003 ppm |
| Concentration per Run 3 | 0.0020 ppm | 0.0004 ppm | 0.0000 ppm | -0.0001 ppm | 0.0004 ppm | -0.0001 ppm | 0.0003 ppm |
| Recovery Percentage 1 | 0.425 % | 1.295 % | 0.399 % | -0.168 % | 1.523 % | -1.562 % | 6.307 % |
| Concentration RSD | 4.9 % | 42.6 % | 184.7 % | 1,108.7 % | 35.9 % | 44.1 % | 21.5 % |

| | 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 | 94.1412 % | 106.2595 % | 108.3408 % | 102.1581 % | 100.1224 % | 106.0089 % | 0.0009 ppm |
| Concentration per Run 1 | 92.3442 % | 106.3413 % | 108.8153 % | 96.8165 % | 99.9319 % | 105.9721 % | 0.0015 ppm |
| Concentration per Run 2 | 95.1457 % | 106.3145 % | 107.9645 % | 103.9641 % | 99.7936 % | 105.9910 % | -0.0001 ppm |
| Concentration per Run 3 | 94.9337 % | 106.1227 % | 108.2424 % | 105.6939 % | 100.6416 % | 106.0636 % | 0.0013 ppm |
| Recovery Percentage 1 | | | | | | | 8.715 % |
| Concentration RSD | 1.7 % | 0.1 % | 0.4 % | 4.6 % | 0.5 % | 0.0 % | 99.1 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/20/2024 12:08:30 AM
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 | 0.4666 ppm | 0.4884 ppm | 0.4613 ppm | 0.4877 ppm | 0.4891 ppm | 0.4868 ppm | 0.5093 ppm |
| Concentration per Run 1 | 0.4651 ppm | 0.5074 ppm | 0.4595 ppm | 0.4865 ppm | 0.5021 ppm | 0.5003 ppm | 0.5229 ppm |
| Concentration per Run 2 | 0.4666 ppm | 0.4818 ppm | 0.4619 ppm | 0.4887 ppm | 0.4830 ppm | 0.4801 ppm | 0.5025 ppm |
| Concentration per Run 3 | 0.4680 ppm | 0.4760 ppm | 0.4624 ppm | 0.4879 ppm | 0.4820 ppm | 0.4799 ppm | 0.5026 ppm |
| Recovery Percentage 1 | 93.315 % | 97.678 % | 92.259 % | 97.534 % | 97.813 % | 97.351 % | 101.869 % |
| Concentration RSD | 0.3 % | 3.4 % | 0.3 % | 0.2 % | 2.3 % | 2.4 % | 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 | 0.4777 ppm | 0.5078 ppm | 0.4656 ppm | 0.4618 ppm | 0.4718 ppm | 5.1420 ppm | 0.4895 ppm |
| Concentration per Run 1 | 0.4786 ppm | 0.5076 ppm | 0.4644 ppm | 0.4609 ppm | 0.4967 ppm | 5.2464 ppm | 0.4867 ppm |
| Concentration per Run 2 | 0.4766 ppm | 0.5075 ppm | 0.4674 ppm | 0.4604 ppm | 0.4630 ppm | 5.1045 ppm | 0.4913 ppm |
| Concentration per Run 3 | 0.4780 ppm | 0.5082 ppm | 0.4650 ppm | 0.4640 ppm | 0.4556 ppm | 5.0752 ppm | 0.4906 ppm |
| Recovery Percentage 1 | 95.547 % | 101.554 % | 93.129 % | 92.356 % | 94.354 % | 102.840 % | 97.908 % |
| Concentration RSD | 0.2 % | 0.1 % | 0.3 % | 0.4 % | 4.6 % | 1.8 % | 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 | 0.4666 ppm | 0.4842 ppm | 10.4265 ppm | 0.4916 ppm | 0.5011 ppm | 0.5036 ppm | 0.4965 ppm |
| Concentration per Run 1 | 0.4800 ppm | 0.4822 ppm | 10.6821 ppm | 0.4919 ppm | 0.5017 ppm | 0.5027 ppm | 0.4941 ppm |
| Concentration per Run 2 | 0.4617 ppm | 0.4845 ppm | 10.3044 ppm | 0.4914 ppm | 0.5008 ppm | 0.5027 ppm | 0.4959 ppm |
| Concentration per Run 3 | 0.4581 ppm | 0.4860 ppm | 10.2930 ppm | 0.4916 ppm | 0.5009 ppm | 0.5053 ppm | 0.4994 ppm |
| Recovery Percentage 1 | 93.323 % | 96.850 % | 104.265 % | 98.325 % | 100.228 % | 100.713 % | 99.297 % |
| Concentration RSD | 2.5 % | 0.4 % | 2.1 % | 0.1 % | 0.1 % | 0.3 % | 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 | 5.5576 ppm | 0.4824 ppm | 0.5044 ppm | 0.4922 ppm | 0.4925 ppm | 0.4695 ppm | 0.5070 ppm |
| Concentration per Run 1 | 5.5429 ppm | 0.4827 ppm | 0.5172 ppm | 0.4919 ppm | 0.4939 ppm | 0.4691 ppm | 0.5084 ppm |
| Concentration per Run 2 | 5.5597 ppm | 0.4822 ppm | 0.4980 ppm | 0.4917 ppm | 0.4910 ppm | 0.4694 ppm | 0.5060 ppm |
| Concentration per Run 3 | 5.5702 ppm | 0.4822 ppm | 0.4982 ppm | 0.4928 ppm | 0.4925 ppm | 0.4701 ppm | 0.5067 ppm |
| Recovery Percentage 1 | 105.859 % | 96.473 % | 100.890 % | 98.432 % | 98.493 % | 93.904 % | 101.407 % |
| Concentration RSD | 0.2 % | 0.1 % | 2.2 % | 0.1 % | 0.3 % | 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 | 93.6683 % | 105.4409 % | 107.6888 % | 104.9290 % | 99.4546 % | 106.4911 % | 0.5057 ppm |
| Concentration per Run 1 | 91.5664 % | 105.5559 % | 108.4314 % | 100.2337 % | 100.1307 % | 106.6230 % | 0.5288 ppm |
| Concentration per Run 2 | 94.5457 % | 105.5091 % | 107.4078 % | 106.2494 % | 99.1573 % | 106.5538 % | 0.4996 ppm |
| Concentration per Run 3 | 94.8927 % | 105.2576 % | 107.2272 % | 108.3040 % | 99.0757 % | 106.2965 % | 0.4887 ppm |
| Recovery Percentage 1 | | | | | | | 101.136 % |
| Concentration RSD | 2.0 % | 0.2 % | 0.6 % | 4.0 % | 0.6 % | 0.2 % | 4.1 % |

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/20/2024 12:14:55 AM
Rack: 0
Vial: 4

| | Ag 328.068 {103} (Axial) | Al 396.152 {85} (Radial) | As 189.042 {478} (Axial) | B 208.959 {461} (Axial) | Ba 455.403 {74} (Radial) | Be 313.042 {108} (Radial) | Ca 315.887 {107} (Radial) |
|---|---|---|---|---|---|---|---|
| Concentration average | 0.0003 ppm | -0.0041 ppm | 0.0005 ppm | 0.0017 ppm | 0.0000 ppm | 0.0000 ppm | 0.0234 ppm |
| Concentration per Run 1 | 0.0003 ppm | -0.0049 ppm | 0.0007 ppm | 0.0019 ppm | 0.0001 ppm | -0.0001 ppm | 0.0263 ppm |
| Concentration per Run 2 | 0.0002 ppm | -0.0021 ppm | 0.0015 ppm | 0.0014 ppm | 0.0001 ppm | 0.0000 ppm | 0.0229 ppm |
| Concentration per Run 3 | 0.0003 ppm | -0.0052 ppm | -0.0005 ppm | 0.0017 ppm | -0.0001 ppm | 0.0000 ppm | 0.0209 ppm |
| Recovery Percentage 1 | 3.641 % | -4.055 % | 10.905 % | 5.558 % | 0.455 % | -0.500 % | 23.378 % |
| Concentration RSD | 25.4 % | 40.9 % | 187.3 % | 16.5 % | 207.1 % | 89.9 % | 11.8 % |

| | 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 | -0.0003 ppm | -0.0002 ppm | -0.0101 ppm | 0.0008 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0002 ppm | -0.0003 ppm | -0.0001 ppm | -0.0009 ppm | -0.0233 ppm | 0.0016 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0000 ppm | -0.0004 ppm | -0.0003 ppm | 0.0006 ppm | -0.0032 ppm | 0.0015 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0000 ppm | -0.0001 ppm | -0.0004 ppm | -0.0002 ppm | -0.0040 ppm | -0.0008 ppm |
| Recovery Percentage 1 | 0.886 % | -0.413 % | -2.310 % | -2.538 % | -0.332 % | -0.406 % | 0.782 % |
| Concentration RSD | 68.8 % | 118.4 % | 65.3 % | 42.5 % | 474.0 % | 112.3 % | 174.6 % |

| | 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 | -0.0003 ppm | 0.0009 ppm | 0.0006 ppm | 0.0001 ppm | 0.0003 ppm | 0.0006 ppm | 0.0003 ppm |
| Concentration per Run 1 | -0.0004 ppm | 0.0010 ppm | -0.0006 ppm | 0.0000 ppm | 0.0005 ppm | 0.0005 ppm | 0.0003 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0008 ppm | -0.0026 ppm | 0.0001 ppm | 0.0005 ppm | 0.0004 ppm | 0.0009 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0008 ppm | 0.0049 ppm | 0.0002 ppm | -0.0001 ppm | 0.0009 ppm | -0.0002 ppm |
| Recovery Percentage 1 | -2.882 % | 1.721 % | 0.028 % | 0.449 % | 2.938 % | 1.169 % | 3.006 % |
| Concentration RSD | 41.6 % | 10.2 % | 688.7 % | 119.6 % | 126.5 % | 44.4 % | 182.5 % |

| | 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 | 0.0024 ppm | 0.0005 ppm | 0.0001 ppm | 0.0001 ppm | 0.0001 ppm | 0.0000 ppm | 0.0002 ppm |
| Concentration per Run 1 | 0.0023 ppm | 0.0003 ppm | 0.0000 ppm | 0.0002 ppm | 0.0010 ppm | 0.0000 ppm | 0.0003 ppm |
| Concentration per Run 2 | 0.0023 ppm | 0.0013 ppm | 0.0002 ppm | -0.0001 ppm | -0.0004 ppm | -0.0001 ppm | 0.0002 ppm |
| Concentration per Run 3 | 0.0028 ppm | -0.0001 ppm | 0.0001 ppm | 0.0002 ppm | -0.0004 ppm | -0.0001 ppm | 0.0002 ppm |
| Recovery Percentage 1 | 0.489 % | 1.059 % | 0.970 % | 0.988 % | 0.469 % | -0.493 % | 4.492 % |
| Concentration RSD | 12.2 % | 135.6 % | 62.2 % | 163.3 % | 849.3 % | 27.6 % | 24.0 % |

| | 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 | 93.4886 % | 106.1003 % | 108.3904 % | 101.8013 % | 100.0864 % | 105.7670 % | 0.0007 ppm |
| Concentration per Run 1 | 91.7882 % | 105.7323 % | 108.8953 % | 95.8859 % | 100.3558 % | 105.2927 % | 0.0002 ppm |
| Concentration per Run 2 | 94.2067 % | 106.2501 % | 108.1866 % | 103.6626 % | 100.0413 % | 105.8800 % | 0.0013 ppm |
| Concentration per Run 3 | 94.4711 % | 106.3183 % | 108.0893 % | 105.8554 % | 99.8620 % | 106.1282 % | 0.0006 ppm |
| Recovery Percentage 1 | | | | | | | 7.153 % |
| Concentration RSD | 1.6 % | 0.3 % | 0.4 % | 5.1 % | 0.2 % | 0.4 % | 81.5 % |

LabBook: WG2011242_12192024T6.imexp

Sample: LLOQ RL check
Analysis started at: 12/20/2024 12:21:40 AM
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 | 0.1028 ppm | 0.0050 ppm | 0.0314 ppm | 0.0102 ppm | 0.0052 ppm | 0.1015 ppm |
| Concentration per Run 1 | 0.0053 ppm | 0.1046 ppm | 0.0041 ppm | 0.0313 ppm | 0.0104 ppm | 0.0052 ppm | 0.1047 ppm |
| Concentration per Run 2 | 0.0054 ppm | 0.1018 ppm | 0.0051 ppm | 0.0315 ppm | 0.0101 ppm | 0.0051 ppm | 0.1055 ppm |
| Concentration per Run 3 | 0.0052 ppm | 0.1021 ppm | 0.0057 ppm | 0.0315 ppm | 0.0102 ppm | 0.0052 ppm | 0.0943 ppm |
| Recovery Percentage 1 | 105.703 % | 102.843 % | 99.449 % | 104.753 % | 102.372 % | 103.456 % | 101.486 % |
| Concentration RSD | 2.0 % | 1.5 % | 16.7 % | 0.4 % | 1.9 % | 0.8 % | 6.2 % |

| | 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 | 0.0041 ppm | 0.0105 ppm | 0.0098 ppm | 0.0100 ppm | 0.0494 ppm | 2.6328 ppm | 0.1049 ppm |
| Concentration per Run 1 | 0.0041 ppm | 0.0105 ppm | 0.0098 ppm | 0.0098 ppm | 0.0523 ppm | 2.6635 ppm | 0.1047 ppm |
| Concentration per Run 2 | 0.0041 ppm | 0.0104 ppm | 0.0098 ppm | 0.0100 ppm | 0.0500 ppm | 2.6379 ppm | 0.1046 ppm |
| Concentration per Run 3 | 0.0041 ppm | 0.0104 ppm | 0.0098 ppm | 0.0101 ppm | 0.0459 ppm | 2.5971 ppm | 0.1053 ppm |
| Recovery Percentage 1 | 102.714 % | 104.573 % | 97.799 % | 99.860 % | 98.775 % | 105.314 % | 104.871 % |
| Concentration RSD | 0.3 % | 0.2 % | 0.3 % | 1.5 % | 6.6 % | 1.3 % | 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 | 0.0097 ppm | 0.0511 ppm | 2.1767 ppm | 0.0201 ppm | 0.0110 ppm | 0.0536 ppm | 0.0099 ppm |
| Concentration per Run 1 | 0.0097 ppm | 0.0509 ppm | 2.2186 ppm | 0.0201 ppm | 0.0110 ppm | 0.0531 ppm | 0.0100 ppm |
| Concentration per Run 2 | 0.0099 ppm | 0.0513 ppm | 2.1616 ppm | 0.0201 ppm | 0.0108 ppm | 0.0541 ppm | 0.0111 ppm |
| Concentration per Run 3 | 0.0095 ppm | 0.0512 ppm | 2.1498 ppm | 0.0200 ppm | 0.0113 ppm | 0.0537 ppm | 0.0085 ppm |
| Recovery Percentage 1 | 96.579 % | 102.266 % | 108.833 % | 100.342 % | 110.309 % | 107.285 % | 98.969 % |
| Concentration RSD | 2.1 % | 0.3 % | 1.7 % | 0.4 % | 2.2 % | 0.9 % | 13.2 % |

| | 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 | 0.5456 ppm | 0.0496 ppm | 0.0102 ppm | 0.0106 ppm | 0.0215 ppm | 0.0099 ppm | 0.0043 ppm |
| Concentration per Run 1 | 0.5487 ppm | 0.0490 ppm | 0.0103 ppm | 0.0108 ppm | 0.0210 ppm | 0.0099 ppm | 0.0042 ppm |
| Concentration per Run 2 | 0.5430 ppm | 0.0504 ppm | 0.0101 ppm | 0.0106 ppm | 0.0228 ppm | 0.0099 ppm | 0.0043 ppm |
| Concentration per Run 3 | 0.5451 ppm | 0.0492 ppm | 0.0101 ppm | 0.0104 ppm | 0.0207 ppm | 0.0098 ppm | 0.0043 ppm |
| Recovery Percentage 1 | 109.119 % | 99.116 % | 101.728 % | 105.807 % | 107.681 % | 98.790 % | 85.165 % |
| Concentration RSD | 0.5 % | 1.6 % | 0.7 % | 1.7 % | 5.2 % | 0.5 % | 1.5 % |

| | 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 | 94.2728 % | 106.0404 % | 108.4698 % | 103.0694 % | 101.7206 % | 106.6579 % | 0.0115 ppm |
| Concentration per Run 1 | 93.2020 % | 106.2345 % | 108.1724 % | 98.4070 % | 102.1763 % | 106.6819 % | 0.0126 ppm |
| Concentration per Run 2 | 95.0338 % | 106.2643 % | 108.7781 % | 104.3350 % | 101.4736 % | 106.9182 % | 0.0106 ppm |
| Concentration per Run 3 | 94.5825 % | 105.6224 % | 108.4591 % | 106.4662 % | 101.5121 % | 106.3736 % | 0.0114 ppm |
| Recovery Percentage 1 | | | | | | | 115.276 % |
| Concentration RSD | 1.0 % | 0.3 % | 0.3 % | 4.1 % | 0.4 % | 0.3 % | 8.7 % |

# iCAP Pro Trace 8 Data report
12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: Blank DMC Trace8
Analysis started at: 12/23/2024 5:35:51 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 | 0.5 % | -0.5 % | -1.7 % | 0.9 % | 0.8 % | -0.2 % | -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 | 0.0000 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 | 5.3 % | 0.5 % | -0.8 % | 0.0 % | -1.1 % | -0.7 % | 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 | 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 | -0.9 % | -0.7 % | 0.1 % | 0.0 % | 0.7 % | 0.7 % | -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 | 1.3 % | 0.0 % | 0.2 % | -0.8 % | -0.5 % | -0.1 % | -2.7 % |

| | 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 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: ICAL
Analysis started at: 12/23/2024 5:40:05 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 | 0.9976 ppm | 24.9688 ppm | 1.0030 ppm | 1.0036 ppm | 1.0069 ppm | 1.0052 ppm | 10.0272 ppm |
| Concentration per Run 2 | 0.9996 ppm | 24.9667 ppm | 0.9860 ppm | 1.0003 ppm | 0.9960 ppm | 0.9930 ppm | 9.9162 ppm |
| Concentration per Run 3 | 1.0028 ppm | 25.0645 ppm | 1.0110 ppm | 0.9961 ppm | 0.9970 ppm | 1.0018 ppm | 10.0567 ppm |
| Concentration RSD | 0.3 % | 0.2 % | 1.3 % | 0.4 % | 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 | 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 | 1.0029 ppm | 1.0030 ppm | 1.0007 ppm | 1.0016 ppm | 25.1351 ppm | 35.2928 ppm | 1.0063 ppm |
| Concentration per Run 2 | 0.9937 ppm | 0.9955 ppm | 0.9978 ppm | 1.0001 ppm | 24.8301 ppm | 34.7232 ppm | 0.9959 ppm |
| Concentration per Run 3 | 1.0034 ppm | 1.0014 ppm | 1.0015 ppm | 0.9982 ppm | 25.0348 ppm | 34.9840 ppm | 0.9978 ppm |
| Concentration RSD | 0.5 % | 0.4 % | 0.2 % | 0.2 % | 0.6 % | 0.8 % | 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 | 10.0000 ppm | 1.0000 ppm | 1.0000 ppm | 25.0000 ppm | 1.0000 ppm | 1.0000 ppm | 1.0000 ppm |
| Concentration per Run 1 | 10.0094 ppm | 1.0027 ppm | 0.9959 ppm | 24.9718 ppm | 1.0022 ppm | 1.0027 ppm | 1.0019 ppm |
| Concentration per Run 2 | 9.9758 ppm | 0.9935 ppm | 0.9936 ppm | 24.9754 ppm | 0.9990 ppm | 0.9909 ppm | 1.0006 ppm |
| Concentration per Run 3 | 10.0148 ppm | 1.0038 ppm | 1.0105 ppm | 25.0528 ppm | 0.9988 ppm | 1.0064 ppm | 0.9974 ppm |
| Concentration RSD | 0.2 % | 0.6 % | 0.9 % | 0.2 % | 0.2 % | 0.8 % | 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 | 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 | 0.9995 ppm | 10.0311 ppm | 1.0025 ppm | 1.0028 ppm | 1.0021 ppm | 1.0006 ppm | 0.9980 ppm |
| Concentration per Run 2 | 1.0005 ppm | 10.0120 ppm | 0.9927 ppm | 0.9959 ppm | 1.0009 ppm | 0.9967 ppm | 0.9986 ppm |
| Concentration per Run 3 | 1.0000 ppm | 9.9568 ppm | 1.0048 ppm | 1.0013 ppm | 0.9971 ppm | 1.0027 ppm | 1.0034 ppm |
| Concentration RSD | 0.0 % | 0.4 % | 0.6 % | 0.4 % | 0.3 % | 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 | 1.0000 ppm | 94.0408 % | 100.6838 % | 87.2766 % | 86.6850 % | 97.7414 % | 91.4417 % |
| Concentration per Run 1 | 1.0019 ppm | 93.9346 % | 99.8793 % | 87.9214 % | 86.5437 % | 97.5001 % | 92.2543 % |
| Concentration per Run 2 | 0.9948 ppm | 93.9223 % | 101.9707 % | 86.5609 % | 86.5787 % | 98.4464 % | 90.4316 % |
| Concentration per Run 3 | 1.0033 ppm | 94.2656 % | 100.2015 % | 87.3473 % | 86.9328 % | 97.2776 % | 91.6392 % |
| Concentration RSD | 0.5 % | 0.2 % | 1.1 % | 0.8 % | 0.2 % | 0.6 % | 1.0 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: ICV
Analysis started at: 12/23/2024 5:44:27 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 | 0.4725 ppm | 0.4651 ppm | 0.4651 ppm | 0.4534 ppm | 0.4754 ppm | 0.4901 ppm | 0.4806 ppm |
| Concentration per Run 1 | 0.4743 ppm | 0.4652 ppm | 0.4641 ppm | 0.4539 ppm | 0.4731 ppm | 0.4916 ppm | 0.4807 ppm |
| Concentration per Run 2 | 0.4728 ppm | 0.4642 ppm | 0.4675 ppm | 0.4565 ppm | 0.4758 ppm | 0.4918 ppm | 0.4835 ppm |
| Concentration per Run 3 | 0.4703 ppm | 0.4658 ppm | 0.4638 ppm | 0.4499 ppm | 0.4773 ppm | 0.4870 ppm | 0.4775 ppm |
| Recovery Percentage 1 | 94.497 % | 93.013 % | 93.026 % | 90.684 % | 95.085 % | 98.022 % | 96.112 % |
| Concentration RSD | 0.4 % | 0.2 % | 0.4 % | 0.7 % | 0.5 % | 0.6 % | 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 | 0.4791 ppm | 0.4902 ppm | 0.4685 ppm | 0.4703 ppm | 0.4926 ppm | 4.9979 ppm | 0.4806 ppm |
| Concentration per Run 1 | 0.4801 ppm | 0.4923 ppm | 0.4703 ppm | 0.4714 ppm | 0.4966 ppm | 5.0132 ppm | 0.4809 ppm |
| Concentration per Run 2 | 0.4823 ppm | 0.4914 ppm | 0.4700 ppm | 0.4700 ppm | 0.4950 ppm | 4.9971 ppm | 0.4821 ppm |
| Concentration per Run 3 | 0.4750 ppm | 0.4868 ppm | 0.4653 ppm | 0.4695 ppm | 0.4861 ppm | 4.9835 ppm | 0.4789 ppm |
| Recovery Percentage 1 | 95.827 % | 98.030 % | 93.708 % | 94.064 % | 98.515 % | 99.959 % | 96.122 % |
| Concentration RSD | 0.8 % | 0.6 % | 0.6 % | 0.2 % | 1.1 % | 0.3 % | 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 | 0.4760 ppm | 0.4736 ppm | 0.4826 ppm | 9.7637 ppm | 0.4835 ppm | 0.4750 ppm | 0.4816 ppm |
| Concentration per Run 1 | 0.4776 ppm | 0.4753 ppm | 0.4818 ppm | 9.7546 ppm | 0.4850 ppm | 0.4766 ppm | 0.4823 ppm |
| Concentration per Run 2 | 0.4787 ppm | 0.4753 ppm | 0.4844 ppm | 9.7632 ppm | 0.4859 ppm | 0.4758 ppm | 0.4820 ppm |
| Concentration per Run 3 | 0.4717 ppm | 0.4702 ppm | 0.4816 ppm | 9.7732 ppm | 0.4797 ppm | 0.4725 ppm | 0.4805 ppm |
| Recovery Percentage 1 | 95.199 % | 94.722 % | 96.520 % | 97.637 % | 96.703 % | 94.995 % | 96.327 % |
| Concentration RSD | 0.8 % | 0.6 % | 0.3 % | 0.1 % | 0.7 % | 0.5 % | 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 | 0.4698 ppm | 5.1097 ppm | 0.4910 ppm | 0.5050 ppm | 0.4738 ppm | 0.4800 ppm | 0.4794 ppm |
| Concentration per Run 1 | 0.4707 ppm | 5.1129 ppm | 0.4931 ppm | 0.5045 ppm | 0.4753 ppm | 0.4794 ppm | 0.4805 ppm |
| Concentration per Run 2 | 0.4715 ppm | 5.1247 ppm | 0.4927 ppm | 0.5068 ppm | 0.4749 ppm | 0.4829 ppm | 0.4793 ppm |
| Concentration per Run 3 | 0.4671 ppm | 5.0914 ppm | 0.4874 ppm | 0.5036 ppm | 0.4710 ppm | 0.4776 ppm | 0.4783 ppm |
| Recovery Percentage 1 | 93.953 % | 97.327 % | 98.209 % | 100.992 % | 94.750 % | 95.996 % | 95.875 % |
| Concentration RSD | 0.5 % | 0.3 % | 0.6 % | 0.3 % | 0.5 % | 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 | 0.4758 ppm | 97.6033 % | 101.2033 % | 93.2070 % | 92.6794 % | 99.4640 % | 94.6644 % |
| Concentration per Run 1 | 0.4782 ppm | 97.4559 % | 100.8041 % | 93.3091 % | 92.6449 % | 99.4477 % | 94.7122 % |
| Concentration per Run 2 | 0.4792 ppm | 97.2699 % | 100.6027 % | 92.9493 % | 92.3606 % | 99.0467 % | 94.6768 % |
| Concentration per Run 3 | 0.4701 ppm | 98.0841 % | 102.2030 % | 93.3627 % | 93.0327 % | 99.8975 % | 94.6041 % |
| Recovery Percentage 1 | 95.165 % | | | | | | |
| Concentration RSD | 1.0 % | 0.4 % | 0.9 % | 0.2 % | 0.4 % | 0.4 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: ICB
Analysis started at: 12/23/2024 5:48:51 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 | 0.0000 ppm | 0.0003 ppm | 0.0004 ppm | 0.0001 ppm | 0.0000 ppm | 0.0041 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0025 ppm | 0.0010 ppm | 0.0002 ppm | 0.0001 ppm | 0.0000 ppm | 0.0025 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0010 ppm | -0.0004 ppm | 0.0001 ppm | 0.0001 ppm | 0.0000 ppm | 0.0058 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0015 ppm | 0.0003 ppm | 0.0010 ppm | 0.0000 ppm | 0.0000 ppm | 0.0039 ppm |
| Recovery Percentage 1 | 1.425 % | 0.025 % | 6.120 % | 1.388 % | 0.691 % | 0.346 % | 4.061 % |
| Concentration RSD | 13.8 % | 8,825.0 % | 220.8 % | 116.2 % | 113.4 % | 32.5 % | 40.0 % |

| | 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 | 0.0001 ppm | -0.0002 ppm | 0.0002 ppm | 0.0009 ppm | 0.0004 ppm | -0.0005 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0001 ppm | 0.0001 ppm | 0.0002 ppm | 0.0016 ppm | -0.0095 ppm | -0.0005 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0002 ppm | -0.0004 ppm | 0.0002 ppm | 0.0006 ppm | -0.0006 ppm | -0.0006 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0001 ppm | -0.0002 ppm | 0.0003 ppm | 0.0007 ppm | 0.0112 ppm | -0.0004 ppm |
| Recovery Percentage 1 | 0.540 % | 0.663 % | -1.752 % | 2.467 % | 1.888 % | 0.015 % | -5.182 % |
| Concentration RSD | 266.0 % | 178.0 % | 139.4 % | 36.5 % | 62.4 % | 2,800.7 % | 14.3 % |

| | 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 | 0.0000 ppm | 0.0000 ppm | 0.0030 ppm | 0.0004 ppm | 0.0000 ppm | -0.0001 ppm | 0.0019 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0000 ppm | 0.0029 ppm | 0.0013 ppm | 0.0001 ppm | 0.0003 ppm | 0.0033 ppm |
| Concentration per Run 2 | -0.0002 ppm | -0.0001 ppm | 0.0029 ppm | -0.0026 ppm | 0.0000 ppm | -0.0004 ppm | 0.0010 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0000 ppm | 0.0031 ppm | 0.0024 ppm | -0.0001 ppm | -0.0003 ppm | 0.0014 ppm |
| Recovery Percentage 1 | 0.003 % | -0.210 % | 5.998 % | 0.018 % | -0.020 % | -1.174 % | 3.817 % |
| Concentration RSD | 6,785.6 % | 219.4 % | 3.1 % | 747.2 % | 1,290.9 % | 314.5 % | 64.6 % |

| | 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 | 0.0000 ppm | 0.0007 ppm | 0.0000 ppm | 0.0001 ppm | -0.0004 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0009 ppm | -0.0001 ppm | 0.0014 ppm | 0.0000 ppm | 0.0001 ppm | -0.0004 ppm | 0.0000 ppm |
| Concentration per Run 2 | -0.0010 ppm | -0.0006 ppm | 0.0006 ppm | 0.0000 ppm | 0.0001 ppm | -0.0015 ppm | 0.0001 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0006 ppm | 0.0001 ppm | 0.0000 ppm | 0.0001 ppm | 0.0005 ppm | 0.0001 ppm |
| Recovery Percentage 1 | -6.685 % | -0.003 % | 1.387 % | -0.046 % | 1.006 % | -2.204 % | 0.616 % |
| Concentration RSD | 63.5 % | 4,378.4 % | 97.6 % | 590.8 % | 22.9 % | 226.3 % | 61.6 % |

| | 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 | 96.0454 % | 100.0602 % | 93.7426 % | 94.5779 % | 100.5643 % | 96.0884 % |
| Concentration per Run 1 | 0.0007 ppm | 95.6348 % | 99.9545 % | 94.0197 % | 94.5357 % | 100.9159 % | 96.5151 % |
| Concentration per Run 2 | 0.0002 ppm | 95.7727 % | 99.9791 % | 93.5322 % | 94.2710 % | 100.2190 % | 95.8336 % |
| Concentration per Run 3 | 0.0006 ppm | 96.7285 % | 100.2471 % | 93.6760 % | 94.9268 % | 100.5579 % | 95.9165 % |
| Recovery Percentage 1 | 10.057 % | | | | | | |
| Concentration RSD | 48.6 % | 0.6 % | 0.2 % | 0.3 % | 0.3 % | 0.3 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: ICV
Analysis started at: 12/23/2024 5:56:34 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 | 0.4755 ppm | 0.4728 ppm | 0.4728 ppm | 0.4570 ppm | 0.4828 ppm | 0.4981 ppm | 0.4857 ppm |
| Concentration per Run 1 | 0.4765 ppm | 0.4731 ppm | 0.4728 ppm | 0.4566 ppm | 0.4826 ppm | 0.4939 ppm | 0.4836 ppm |
| Concentration per Run 2 | 0.4765 ppm | 0.4765 ppm | 0.4710 ppm | 0.4573 ppm | 0.4867 ppm | 0.4997 ppm | 0.4847 ppm |
| Concentration per Run 3 | 0.4733 ppm | 0.4688 ppm | 0.4746 ppm | 0.4570 ppm | 0.4790 ppm | 0.5007 ppm | 0.4888 ppm |
| Recovery Percentage 1 | 95.092 % | 94.562 % | 94.554 % | 91.391 % | 96.552 % | 99.622 % | 97.136 % |
| Concentration RSD | 0.4 % | 0.8 % | 0.4 % | 0.1 % | 0.8 % | 0.7 % | 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 | 0.4849 ppm | 0.4976 ppm | 0.4748 ppm | 0.4791 ppm | 0.4974 ppm | 5.0894 ppm | 0.4822 ppm |
| Concentration per Run 1 | 0.4846 ppm | 0.4973 ppm | 0.4758 ppm | 0.4810 ppm | 0.4960 ppm | 5.0767 ppm | 0.4815 ppm |
| Concentration per Run 2 | 0.4869 ppm | 0.4977 ppm | 0.4767 ppm | 0.4797 ppm | 0.4974 ppm | 5.1044 ppm | 0.4852 ppm |
| Concentration per Run 3 | 0.4832 ppm | 0.4979 ppm | 0.4720 ppm | 0.4766 ppm | 0.4988 ppm | 5.0873 ppm | 0.4798 ppm |
| Recovery Percentage 1 | 96.981 % | 99.526 % | 94.966 % | 95.820 % | 99.479 % | 101.789 % | 96.432 % |
| Concentration RSD | 0.4 % | 0.1 % | 0.5 % | 0.5 % | 0.3 % | 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 | 0.4823 ppm | 0.4830 ppm | 0.4842 ppm | 10.0625 ppm | 0.4889 ppm | 0.4824 ppm | 0.4906 ppm |
| Concentration per Run 1 | 0.4823 ppm | 0.4802 ppm | 0.4817 ppm | 10.0676 ppm | 0.4899 ppm | 0.4841 ppm | 0.4870 ppm |
| Concentration per Run 2 | 0.4852 ppm | 0.4831 ppm | 0.4862 ppm | 10.0887 ppm | 0.4910 ppm | 0.4820 ppm | 0.4907 ppm |
| Concentration per Run 3 | 0.4795 ppm | 0.4858 ppm | 0.4846 ppm | 10.0313 ppm | 0.4857 ppm | 0.4812 ppm | 0.4941 ppm |
| Recovery Percentage 1 | 96.462 % | 96.608 % | 96.834 % | 100.625 % | 97.772 % | 96.485 % | 98.119 % |
| Concentration RSD | 0.6 % | 0.6 % | 0.5 % | 0.3 % | 0.6 % | 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 | 0.4771 ppm | 5.1142 ppm | 0.4881 ppm | 0.4867 ppm | 0.4814 ppm | 0.4888 ppm | 0.4868 ppm |
| Concentration per Run 1 | 0.4750 ppm | 5.1153 ppm | 0.4880 ppm | 0.4841 ppm | 0.4817 ppm | 0.4911 ppm | 0.4878 ppm |
| Concentration per Run 2 | 0.4786 ppm | 5.1240 ppm | 0.4892 ppm | 0.4889 ppm | 0.4814 ppm | 0.4892 ppm | 0.4877 ppm |
| Concentration per Run 3 | 0.4776 ppm | 5.1032 ppm | 0.4871 ppm | 0.4870 ppm | 0.4812 ppm | 0.4861 ppm | 0.4849 ppm |
| Recovery Percentage 1 | 95.415 % | 97.413 % | 97.623 % | 97.331 % | 96.288 % | 97.759 % | 97.363 % |
| Concentration RSD | 0.4 % | 0.2 % | 0.2 % | 0.5 % | 0.1 % | 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 | 0.4807 ppm | 98.7329 % | 101.7182 % | 93.8472 % | 93.6947 % | 99.6163 % | 95.0198 % |
| Concentration per Run 1 | 0.4799 ppm | 98.7260 % | 102.7946 % | 93.4809 % | 93.7880 % | 100.1721 % | 94.9174 % |
| Concentration per Run 2 | 0.4828 ppm | 98.4260 % | 102.0916 % | 94.0412 % | 93.7018 % | 100.1306 % | 95.2790 % |
| Concentration per Run 3 | 0.4796 ppm | 99.0467 % | 100.2684 % | 94.0196 % | 93.5943 % | 98.5461 % | 94.8630 % |
| Recovery Percentage 1 | 96.148 % | | | | | | |
| Concentration RSD | 0.4 % | 0.3 % | 1.3 % | 0.3 % | 0.1 % | 0.9 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: ICB
Analysis started at: 12/23/2024 6:01:07 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 | 0.0006 ppm | -0.0005 ppm | 0.0003 ppm | 0.0001 ppm | 0.0000 ppm | 0.0032 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0010 ppm | -0.0006 ppm | 0.0006 ppm | 0.0000 ppm | 0.0000 ppm | 0.0025 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.0002 ppm | -0.0005 ppm | 0.0001 ppm | 0.0001 ppm | 0.0000 ppm | 0.0028 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0007 ppm | -0.0003 ppm | 0.0001 ppm | 0.0001 ppm | 0.0000 ppm | 0.0045 ppm |
| Recovery Percentage 1 | 1.935 % | 0.624 % | -9.560 % | 0.854 % | 0.506 % | 0.419 % | 3.235 % |
| Concentration RSD | 105.8 % | 66.3 % | 35.3 % | 109.4 % | 68.0 % | 41.5 % | 33.6 % |

| | 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 | -0.0001 ppm | 0.0000 ppm | 0.0001 ppm | 0.0005 ppm | 0.0015 ppm | -0.0005 ppm |
| Concentration per Run 1 | 0.0002 ppm | -0.0004 ppm | -0.0001 ppm | 0.0001 ppm | 0.0003 ppm | 0.0019 ppm | -0.0003 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0000 ppm | 0.0002 ppm | 0.0000 ppm | 0.0004 ppm | -0.0027 ppm | -0.0002 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0001 ppm | -0.0002 ppm | 0.0002 ppm | 0.0008 ppm | 0.0054 ppm | -0.0010 ppm |
| Recovery Percentage 1 | -0.007 % | -0.970 % | -0.379 % | 1.281 % | 1.000 % | 0.061 % | -5.151 % |
| Concentration RSD | 50,611.8 % | 282.3 % | 485.8 % | 68.7 % | 56.4 % | 264.3 % | 89.1 % |

| | 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 | -0.0009 ppm | 0.0000 ppm | 0.0025 ppm | 0.0023 ppm | -0.0002 ppm | 0.0001 ppm | 0.0010 ppm |
| Concentration per Run 1 | -0.0009 ppm | 0.0000 ppm | 0.0024 ppm | 0.0031 ppm | 0.0000 ppm | -0.0001 ppm | 0.0003 ppm |
| Concentration per Run 2 | -0.0013 ppm | -0.0001 ppm | 0.0026 ppm | 0.0002 ppm | -0.0002 ppm | -0.0001 ppm | -0.0002 ppm |
| Concentration per Run 3 | -0.0006 ppm | 0.0001 ppm | 0.0026 ppm | 0.0036 ppm | -0.0004 ppm | 0.0005 ppm | 0.0030 ppm |
| Recovery Percentage 1 | -0.930 % | 0.185 % | 5.018 % | 0.117 % | -0.761 % | 1.079 % | 2.045 % |
| Concentration RSD | 40.4 % | 672.1 % | 3.5 % | 78.4 % | 115.2 % | 286.8 % | 166.0 % |

| | 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 | -0.0009 ppm | -0.0001 ppm | 0.0006 ppm | 0.0001 ppm | 0.0000 ppm | -0.0004 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0006 ppm | 0.0001 ppm | 0.0004 ppm | 0.0001 ppm | -0.0001 ppm | 0.0004 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0007 ppm | -0.0002 ppm | 0.0004 ppm | 0.0000 ppm | 0.0001 ppm | -0.0001 ppm | 0.0001 ppm |
| Concentration per Run 3 | -0.0014 ppm | -0.0003 ppm | 0.0010 ppm | 0.0001 ppm | 0.0000 ppm | -0.0014 ppm | 0.0000 ppm |
| Recovery Percentage 1 | -9.188 % | -0.030 % | 1.186 % | 0.658 % | -0.204 % | -1.891 % | 0.648 % |
| Concentration RSD | 49.0 % | 156.0 % | 53.7 % | 45.7 % | 580.5 % | 245.7 % | 58.7 % |

| | 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 | 0.0003 ppm | 96.3393 % | 99.8424 % | 94.3518 % | 94.7952 % | 99.7987 % | 96.3066 % |
| Concentration per Run 1 | 0.0003 ppm | 95.0124 % | 99.3445 % | 94.4783 % | 93.9056 % | 99.6767 % | 96.4790 % |
| Concentration per Run 2 | 0.0003 ppm | 96.7842 % | 100.4425 % | 94.1078 % | 95.3401 % | 99.7905 % | 96.1674 % |
| Concentration per Run 3 | 0.0002 ppm | 97.2213 % | 99.7402 % | 94.4692 % | 95.1399 % | 99.9289 % | 96.2736 % |
| Recovery Percentage 1 | 5.315 % | | | | | | |
| Concentration RSD | 22.9 % | 1.2 % | 0.6 % | 0.2 % | 0.8 % | 0.1 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: LLOQ
Analysis started at: 12/23/2024 6:05:31 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 | 0.0051 ppm | 0.0996 ppm | 0.0041 ppm | 0.0288 ppm | 0.0099 ppm | 0.0050 ppm | 0.1026 ppm |
| Concentration per Run 1 | 0.0050 ppm | 0.0987 ppm | 0.0033 ppm | 0.0289 ppm | 0.0099 ppm | 0.0050 ppm | 0.1021 ppm |
| Concentration per Run 2 | 0.0052 ppm | 0.1007 ppm | 0.0061 ppm | 0.0294 ppm | 0.0099 ppm | 0.0050 ppm | 0.1018 ppm |
| Concentration per Run 3 | 0.0052 ppm | 0.0995 ppm | 0.0028 ppm | 0.0282 ppm | 0.0098 ppm | 0.0049 ppm | 0.1040 ppm |
| Recovery Percentage 1 | 102.468 % | 99.600 % | 82.013 % | 96.097 % | 98.793 % | 99.270 % | 102.636 % |
| Concentration RSD | 1.7 % | 1.0 % | 43.6 % | 2.0 % | 0.4 % | 0.8 % | 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 | 0.0039 ppm | 0.0100 ppm | 0.0097 ppm | 0.0101 ppm | 0.0523 ppm | 2.5969 ppm | 0.0101 ppm |
| Concentration per Run 1 | 0.0040 ppm | 0.0098 ppm | 0.0096 ppm | 0.0103 ppm | 0.0535 ppm | 2.6030 ppm | 0.0099 ppm |
| Concentration per Run 2 | 0.0039 ppm | 0.0100 ppm | 0.0096 ppm | 0.0098 ppm | 0.0511 ppm | 2.5869 ppm | 0.0101 ppm |
| Concentration per Run 3 | 0.0039 ppm | 0.0101 ppm | 0.0098 ppm | 0.0101 ppm | 0.0523 ppm | 2.6007 ppm | 0.0104 ppm |
| Recovery Percentage 1 | 98.510 % | 99.881 % | 96.661 % | 100.752 % | 104.581 % | 103.875 % | 101.229 % |
| Concentration RSD | 0.6 % | 1.6 % | 1.5 % | 2.3 % | 2.3 % | 0.3 % | 2.3 % |

| | 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 | 0.1007 ppm | 0.0097 ppm | 0.0507 ppm | 2.0643 ppm | 0.0200 ppm | 0.0092 ppm | 0.0525 ppm |
| Concentration per Run 1 | 0.1011 ppm | 0.0096 ppm | 0.0505 ppm | 2.0658 ppm | 0.0203 ppm | 0.0086 ppm | 0.0530 ppm |
| Concentration per Run 2 | 0.1013 ppm | 0.0099 ppm | 0.0511 ppm | 2.0592 ppm | 0.0199 ppm | 0.0090 ppm | 0.0523 ppm |
| Concentration per Run 3 | 0.0997 ppm | 0.0096 ppm | 0.0506 ppm | 2.0680 ppm | 0.0197 ppm | 0.0101 ppm | 0.0521 ppm |
| Recovery Percentage 1 | 100.690 % | 97.119 % | 101.447 % | 103.217 % | 79.817 % | 92.442 % | 104.916 % |
| Concentration RSD | 0.9 % | 1.3 % | 0.6 % | 0.2 % | 1.6 % | 8.7 % | 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 | 0.0082 ppm | 0.4814 ppm | 0.0512 ppm | 0.0099 ppm | 0.0098 ppm | 0.0204 ppm | 0.0099 ppm |
| Concentration per Run 1 | 0.0085 ppm | 0.4836 ppm | 0.0514 ppm | 0.0100 ppm | 0.0099 ppm | 0.0200 ppm | 0.0099 ppm |
| Concentration per Run 2 | 0.0076 ppm | 0.4807 ppm | 0.0515 ppm | 0.0099 ppm | 0.0098 ppm | 0.0201 ppm | 0.0101 ppm |
| Concentration per Run 3 | 0.0086 ppm | 0.4800 ppm | 0.0507 ppm | 0.0098 ppm | 0.0097 ppm | 0.0211 ppm | 0.0097 ppm |
| Recovery Percentage 1 | 82.318 % | 96.280 % | 102.423 % | 99.170 % | 98.036 % | 101.950 % | 98.911 % |
| Concentration RSD | 6.5 % | 0.4 % | 0.9 % | 0.9 % | 1.2 % | 2.9 % | 1.8 % |

| | 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 | 0.0045 ppm | 98.4331 % | 101.2670 % | 95.8382 % | 95.2136 % | 100.5199 % | 96.2370 % |
| Concentration per Run 1 | 0.0046 ppm | 97.5728 % | 101.9441 % | 95.8106 % | 94.8668 % | 101.2080 % | 96.6747 % |
| Concentration per Run 2 | 0.0045 ppm | 98.7595 % | 101.1285 % | 95.6427 % | 95.5254 % | 100.2664 % | 95.8861 % |
| Concentration per Run 3 | 0.0044 ppm | 98.9671 % | 100.7283 % | 96.0613 % | 95.2486 % | 100.0852 % | 96.1501 % |
| Recovery Percentage 1 | 90.211 % | | | | | | |
| Concentration RSD | 2.3 % | 0.8 % | 0.6 % | 0.2 % | 0.3 % | 0.6 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: ICSA
Analysis started at: 12/23/2024 6:09:56 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 | 0.0029 ppm | 511.4056 [SIC 500] | -0.0008 ppm | -0.0014 ppm | 0.0015 ppm | 0.0000 ppm | 462.1849 ppm |
| Concentration per Run 1 | 0.0028 ppm | 506.1464 ppm | 0.0000 ppm | -0.0032 ppm | 0.0014 ppm | 0.0000 ppm | 465.7564 ppm |
| Concentration per Run 2 | 0.0027 ppm | 516.8763 ppm | -0.0021 ppm | -0.0002 ppm | 0.0015 ppm | 0.0000 ppm | 461.7961 ppm |
| Concentration per Run 3 | 0.0031 ppm | 511.1939 ppm | -0.0004 ppm | -0.0009 ppm | 0.0014 ppm | 0.0000 ppm | 459.0022 ppm |
| Recovery Percentage 1 | 57.524 % | 511,405.569 % | -16.444 % | -4.731 % | 14.751 % | 0.917 % | 462,184.889 % |
| Concentration RSD | 7.8 % | 1.0 % | 131.8 % | 108.7 % | 3.9 % | 9.2 % | 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 | -0.0001 ppm | -0.0001 ppm | 0.0004 ppm | 0.0035 ppm | 179.8292 ppm | -0.0240 ppm | 0.0022 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0002 ppm | 0.0006 ppm | 0.0035 ppm | 181.3033 ppm | -0.0186 ppm | 0.0090 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.0001 ppm | 0.0001 ppm | 0.0032 ppm | 179.4376 ppm | -0.0280 ppm | -0.0040 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0001 ppm | 0.0005 ppm | 0.0039 ppm | 178.7466 ppm | -0.0254 ppm | 0.0015 ppm |
| Recovery Percentage 1 | -2.841 % | -1.041 % | 3.622 % | 35.384 % | 359,658.363 % | -0.960 % | 21.562 % |
| Concentration RSD | 150.4 % | 146.1 % | 72.5 % | 10.0 % | 0.7 % | 20.2 % | 302.8 % |

| | 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 | 460.5718 ppm | 0.0014 ppm | -0.0006 ppm | 0.0166 ppm | -0.0007 ppm | 0.0055 ppm | -0.0038 ppm |
| Concentration per Run 1 | 460.1307 ppm | 0.0015 ppm | -0.0012 ppm | 0.0190 ppm | -0.0004 ppm | 0.0094 ppm | -0.0045 ppm |
| Concentration per Run 2 | 461.5236 ppm | 0.0014 ppm | -0.0003 ppm | 0.0118 ppm | -0.0011 ppm | 0.0030 ppm | -0.0025 ppm |
| Concentration per Run 3 | 460.0612 ppm | 0.0014 ppm | -0.0003 ppm | 0.0189 ppm | -0.0006 ppm | 0.0041 ppm | -0.0044 ppm |
| Recovery Percentage 1 | 460,571.821 % | 14.274 % | -1.193 % | 0.830 % | -2.688 % | 55.132 % | -7.553 % |
| Concentration RSD | 0.2 % | 3.9 % | 93.3 % | 25.0 % | 54.8 % | 62.6 % | 29.6 % |

| | 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 | -0.0055 ppm | -0.0152 ppm | 0.0021 ppm | 0.0010 ppm | -0.0006 ppm | 0.0030 ppm | -0.0023 ppm |
| Concentration per Run 1 | -0.0079 ppm | -0.0147 ppm | 0.0012 ppm | 0.0009 ppm | -0.0008 ppm | 0.0026 ppm | -0.0026 ppm |
| Concentration per Run 2 | -0.0034 ppm | -0.0154 ppm | 0.0024 ppm | 0.0010 ppm | -0.0008 ppm | 0.0029 ppm | -0.0019 ppm |
| Concentration per Run 3 | -0.0052 ppm | -0.0156 ppm | 0.0027 ppm | 0.0010 ppm | -0.0003 ppm | 0.0034 ppm | -0.0026 ppm |
| Recovery Percentage 1 | -54.995 % | -3.043 % | 4.216 % | 9.729 % | -6.161 % | 14.917 % | -23.300 % |
| Concentration RSD | 42.1 % | 3.0 % | 37.6 % | 8.5 % | 47.9 % | 13.9 % | 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 | -0.0011 ppm | 81.8833 % | 91.8401 % | 67.3845 % | 75.5638 % | 90.7283 % | 78.7376 % |
| Concentration per Run 1 | -0.0006 ppm | 81.5914 % | 90.5432 % | 67.8233 % | 75.2543 % | 89.6303 % | 79.0984 % |
| Concentration per Run 2 | -0.0011 ppm | 82.1719 % | 92.1589 % | 67.6548 % | 76.0412 % | 90.9371 % | 79.2193 % |
| Concentration per Run 3 | -0.0015 ppm | 81.8866 % | 92.8181 % | 66.6755 % | 75.3959 % | 91.6174 % | 77.8952 % |
| Recovery Percentage 1 | -21.067 % | | | | | | |
| Concentration RSD | 44.4 % | 0.4 % | 1.3 % | 0.9 % | 0.6 % | 1.1 % | 0.9 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: SIC Multi (ICSA CARRY OVER)
Analysis started at: 12/23/2024 6:15:23 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 | -0.0002 ppm | 0.0539 ppm | -0.0054 ppm | 0.0024 ppm | 0.0004 ppm | -0.0016 ppm | 0.0385 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0544 ppm | -0.0049 ppm | 0.0027 ppm | 0.0003 ppm | -0.0017 ppm | 0.0396 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.0590 ppm | -0.0060 ppm | 0.0020 ppm | 0.0004 ppm | -0.0015 ppm | 0.0392 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0484 ppm | -0.0052 ppm | 0.0026 ppm | 0.0004 ppm | -0.0017 ppm | 0.0368 ppm |
| Recovery Percentage 1 | -4.468 % | 53.949 % | -107.176 % | 8.117 % | 3.594 % | -32.481 % | 38.521 % |
| Concentration RSD | 49.1 % | 9.9 % | 11.1 % | 14.2 % | 18.0 % | 7.5 % | 4.0 % |

| | 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 | -0.0045 ppm | 19.2994 ppm | -0.0017 ppm | 0.0311 ppm | 0.0003 ppm | 0.0000 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0046 ppm | 19.3152 ppm | -0.0017 ppm | 0.0313 ppm | 0.0037 ppm | 0.0003 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0045 ppm | 19.2920 ppm | -0.0017 ppm | 0.0312 ppm | 0.0033 ppm | 0.0000 ppm |
| Concentration per Run 3 | 0.0002 ppm | -0.0045 ppm | 19.2910 ppm | -0.0016 ppm | 0.0309 ppm | -0.0060 ppm | -0.0002 ppm |
| Recovery Percentage 1 | 0.142 % | -45.335 % | 192,993.916 % | -16.559 % | 62.277 % | 0.013 % | 0.257 % |
| Concentration RSD | 2,217.5 % | 1.0 % | 0.1 % | 5.5 % | 0.6 % | 1,671.7 % | 945.3 % |

| | 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 | 0.0573 ppm | 19.9963 ppm | 0.0014 ppm | 0.0030 ppm | 0.0005 ppm | -0.0043 ppm | -0.0051 ppm |
| Concentration per Run 1 | 0.0599 ppm | 19.8501 ppm | 0.0015 ppm | 0.0040 ppm | 0.0010 ppm | -0.0041 ppm | -0.0052 ppm |
| Concentration per Run 2 | 0.0549 ppm | 20.0581 ppm | 0.0012 ppm | 0.0014 ppm | 0.0006 ppm | -0.0041 ppm | -0.0052 ppm |
| Concentration per Run 3 | 0.0571 ppm | 20.0809 ppm | 0.0014 ppm | 0.0036 ppm | -0.0001 ppm | -0.0045 ppm | -0.0050 ppm |
| Recovery Percentage 1 | 57.303 % | 199,963.314 % | 2.725 % | 0.149 % | 2.126 % | -42.534 % | -10.236 % |
| Concentration RSD | 4.3 % | 0.6 % | 11.5 % | 47.1 % | 106.0 % | 5.3 % | 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 | -0.0066 ppm | -0.0258 ppm | -0.0079 ppm | 0.0001 ppm | 19.1291 ppm | 0.0037 ppm | 10.0119 [SIC 10] |
| Concentration per Run 1 | -0.0066 ppm | -0.0470 ppm | -0.0074 ppm | 0.0001 ppm | 19.1323 ppm | 0.0026 ppm | 10.0439 ppm |
| Concentration per Run 2 | -0.0058 ppm | -0.0234 ppm | -0.0082 ppm | 0.0001 ppm | 19.1305 ppm | 0.0064 ppm | 10.0084 ppm |
| Concentration per Run 3 | -0.0076 ppm | -0.0069 ppm | -0.0082 ppm | 0.0000 ppm | 19.1244 ppm | 0.0022 ppm | 9.9836 ppm |
| Recovery Percentage 1 | -66.356 % | -5.152 % | -15.857 % | 0.720 % | 191,290.595 % | 18.664 % | 100,119.471 % |
| Concentration RSD | 14.0 % | 78.3 % | 6.1 % | 52.4 % | 0.0 % | 61.9 % | 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 | -0.0004 ppm | 100.1057 % | 100.7334 % | 68.6672 % | 94.4314 % | 99.1235 % | 96.6709 % |
| Concentration per Run 1 | -0.0004 ppm | 99.8288 % | 101.5675 % | 68.4386 % | 94.5469 % | 99.7807 % | 96.8078 % |
| Concentration per Run 2 | -0.0004 ppm | 100.1706 % | 100.3614 % | 69.0061 % | 94.4312 % | 98.8297 % | 96.6683 % |
| Concentration per Run 3 | -0.0004 ppm | 100.3178 % | 100.2711 % | 68.5570 % | 94.3161 % | 98.7601 % | 96.5365 % |
| Recovery Percentage 1 | -8.156 % | | | | | | |
| Concentration RSD | 10.7 % | 0.3 % | 0.7 % | 0.4 % | 0.1 % | 0.6 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: LDR Check
Analysis started at: 12/23/2024 6:20:22 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 | 0.0027 ppm | -0.0218 ppm | 21.7020 ppm | 18.1817 ppm | 18.5371 ppm | 4.8599 ppm | 0.0174 ppm |
| Concentration per Run 1 | 0.0027 ppm | -0.0196 ppm | 21.7619 ppm | 18.2260 ppm | 18.6265 ppm | 4.8844 ppm | 0.0168 ppm |
| Concentration per Run 2 | 0.0025 ppm | -0.0213 ppm | 21.7012 ppm | 18.1317 ppm | 18.5298 ppm | 4.8401 ppm | 0.0175 ppm |
| Concentration per Run 3 | 0.0028 ppm | -0.0245 ppm | 21.6431 ppm | 18.1873 ppm | 18.4550 ppm | 4.8552 ppm | 0.0179 ppm |
| Recovery Percentage 1 | | | 108.510 % | 90.908 % | 92.685 % | | 0.000 % |
| Concentration RSD | 5.6 % | 11.5 % | 0.3 % | 0.3 % | 0.5 % | 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 | 4.8615 ppm | 4.8183 ppm | 0.0014 ppm | 18.7780 [SIC 40] | 0.0052 ppm | 527.0451 ppm | 19.0717 ppm |
| Concentration per Run 1 | 4.8863 ppm | 4.8390 ppm | 0.0017 ppm | 18.7767 ppm | 0.0049 ppm | 528.5401 ppm | 19.1816 ppm |
| Concentration per Run 2 | 4.8365 ppm | 4.8036 ppm | 0.0013 ppm | 18.7821 ppm | 0.0057 ppm | 524.4042 ppm | 18.9850 ppm |
| Concentration per Run 3 | 4.8618 ppm | 4.8123 ppm | 0.0013 ppm | 18.7751 ppm | 0.0048 ppm | 528.1911 ppm | 19.0484 ppm |
| Recovery Percentage 1 | 97.230 % | 96.366 % | | 93.890 % | 0.000 % | 105.409 % | 95.358 % |
| Concentration RSD | 0.5 % | 0.4 % | 19.6 % | 0.0 % | 8.7 % | 0.4 % | 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 | -0.0058 ppm | 0.0027 ppm | 4.7479 ppm | 469.3410 ppm | 9.4238 ppm | 50.7555 ppm | 4.9442 ppm |
| Concentration per Run 1 | -0.0043 ppm | 0.0027 ppm | 4.7095 ppm | 469.8907 ppm | 9.4373 ppm | 50.6439 ppm | 4.9314 ppm |
| Concentration per Run 2 | -0.0062 ppm | 0.0028 ppm | 4.7349 ppm | 469.5185 ppm | 9.3707 ppm | 50.8161 ppm | 4.9385 ppm |
| Concentration per Run 3 | -0.0069 ppm | 0.0026 ppm | 4.7993 ppm | 468.6139 ppm | 9.4635 ppm | 50.8064 ppm | 4.9628 ppm |
| Recovery Percentage 1 | | 0.000 % | 94.958 % | 93.868 % | 94.238 % | 101.511 % | 98.884 % |
| Concentration RSD | 23.3 % | 4.6 % | 1.0 % | 0.1 % | 0.5 % | 0.2 % | 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 | 5.0850 [SIC 20] | 19.9952 ppm | 9.8790 ppm | 4.8766 ppm | 0.0089 ppm | 4.6958 ppm | 0.0040 ppm |
| Concentration per Run 1 | 5.0856 ppm | 19.9820 ppm | 9.9233 ppm | 4.8965 ppm | 0.0092 ppm | 4.7024 ppm | 0.0040 ppm |
| Concentration per Run 2 | 5.0886 ppm | 19.9389 ppm | 9.8156 ppm | 4.8694 ppm | 0.0089 ppm | 4.7107 ppm | 0.0043 ppm |
| Concentration per Run 3 | 5.0809 ppm | 20.0648 ppm | 9.8981 ppm | 4.8639 ppm | 0.0086 ppm | 4.6743 ppm | 0.0037 ppm |
| Recovery Percentage 1 | 101.700 % | 99.976 % | 98.790 % | 97.532 % | 0.000 % | 93.916 % | 0.000 % |
| Concentration RSD | 0.1 % | 0.3 % | 0.6 % | 0.4 % | 3.7 % | 0.4 % | 7.3 % |

| | 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 | 19.6438 ppm | 87.4367 % | 95.7576 % | 74.8560 % | 80.9050 % | 93.1831 % | 82.4840 % |
| Concentration per Run 1 | 19.7282 ppm | 87.1283 % | 95.0397 % | 75.0991 % | 80.6145 % | 92.7455 % | 82.6888 % |
| Concentration per Run 2 | 19.4921 ppm | 87.7810 % | 95.9922 % | 74.4823 % | 81.4051 % | 93.3215 % | 82.1590 % |
| Concentration per Run 3 | 19.7112 ppm | 87.4008 % | 96.2409 % | 74.9867 % | 80.6955 % | 93.4824 % | 82.6042 % |
| Recovery Percentage 1 | 98.219 % | | | | | | |
| Concentration RSD | 0.7 % | 0.4 % | 0.7 % | 0.4 % | 0.5 % | 0.4 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: LLOQ 0.005ppm As
Analysis started at: 12/23/2024 6:46:43 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 | 0.0053 ppm | 0.1299 ppm | 0.0041 ppm | 0.0055 ppm | 0.0051 ppm | 0.0048 ppm | 0.0653 ppm |
| Concentration per Run 1 | 0.0052 ppm | 0.1302 ppm | 0.0044 ppm | 0.0052 ppm | 0.0050 ppm | 0.0048 ppm | 0.0648 ppm |
| Concentration per Run 2 | 0.0053 ppm | 0.1313 ppm | 0.0039 ppm | 0.0052 ppm | 0.0051 ppm | 0.0048 ppm | 0.0654 ppm |
| Concentration per Run 3 | 0.0054 ppm | 0.1282 ppm | 0.0039 ppm | 0.0060 ppm | 0.0050 ppm | 0.0049 ppm | 0.0656 ppm |
| Recovery Percentage 1 | 105.788 % | 0.000 % | 81.473 % | 0.000 % | 0.000 % | 96.800 % | 0.000 % |
| Concentration RSD | 1.3 % | 1.2 % | 7.6 % | 8.2 % | 1.3 % | 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 | 0.0050 ppm | 0.0051 ppm | 0.0049 ppm | 0.0052 ppm | 0.1373 ppm | 0.1904 ppm | 0.0049 ppm |
| Concentration per Run 1 | 0.0051 ppm | 0.0050 ppm | 0.0049 ppm | 0.0052 ppm | 0.1373 ppm | 0.2013 ppm | 0.0045 ppm |
| Concentration per Run 2 | 0.0050 ppm | 0.0051 ppm | 0.0046 ppm | 0.0055 ppm | 0.1368 ppm | 0.1789 ppm | 0.0049 ppm |
| Concentration per Run 3 | 0.0048 ppm | 0.0051 ppm | 0.0051 ppm | 0.0048 ppm | 0.1376 ppm | 0.1910 ppm | 0.0054 ppm |
| Recovery Percentage 1 | 99.412 % | 0.000 % | 0.000 % | 0.000 % | 0.000 % | 0.000 % | 0.000 % |
| Concentration RSD | 3.1 % | 0.5 % | 4.5 % | 6.0 % | 0.3 % | 5.9 % | 8.8 % |

| | 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 | 0.0547 ppm | 0.0050 ppm | 0.0053 ppm | 0.1350 ppm | 0.0055 ppm | 0.0047 ppm | 0.0077 ppm |
| Concentration per Run 1 | 0.0535 ppm | 0.0050 ppm | 0.0054 ppm | 0.1361 ppm | 0.0053 ppm | 0.0042 ppm | 0.0081 ppm |
| Concentration per Run 2 | 0.0554 ppm | 0.0050 ppm | 0.0054 ppm | 0.1358 ppm | 0.0053 ppm | 0.0052 ppm | 0.0057 ppm |
| Concentration per Run 3 | 0.0550 ppm | 0.0051 ppm | 0.0051 ppm | 0.1332 ppm | 0.0060 ppm | 0.0046 ppm | 0.0094 ppm |
| Recovery Percentage 1 | 0.000 % | 0.000 % | 0.000 % | 0.000 % | 0.000 % | 0.000 % | 0.000 % |
| Concentration RSD | 1.8 % | 1.2 % | 3.2 % | 1.2 % | 7.3 % | 11.1 % | 24.2 % |

| | 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 | 0.0477 ppm | 0.0062 ppm | 0.0052 ppm | 0.0049 ppm | 0.0052 ppm | 0.0050 ppm |
| Concentration per Run 1 | 0.0028 ppm | 0.0487 ppm | 0.0068 ppm | 0.0052 ppm | 0.0050 ppm | 0.0048 ppm | 0.0051 ppm |
| Concentration per Run 2 | 0.0043 ppm | 0.0483 ppm | 0.0065 ppm | 0.0052 ppm | 0.0048 ppm | 0.0053 ppm | 0.0050 ppm |
| Concentration per Run 3 | 0.0021 ppm | 0.0460 ppm | 0.0054 ppm | 0.0052 ppm | 0.0050 ppm | 0.0055 ppm | 0.0050 ppm |
| Recovery Percentage 1 | 0.000 % | 0.000 % | 0.000 % | 0.000 % | 0.000 % | 0.000 % | 0.000 % |
| Concentration RSD | 36.0 % | 3.0 % | 12.1 % | 0.5 % | 2.7 % | 7.0 % | 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 | 0.0046 ppm | 102.4303 % | 99.4919 % | 103.5886 % | 101.1196 % | 99.8566 % | 101.7712 % |
| Concentration per Run 1 | 0.0045 ppm | 102.1636 % | 99.7152 % | 103.4149 % | 101.0065 % | 100.0055 % | 101.7972 % |
| Concentration per Run 2 | 0.0047 ppm | 101.8314 % | 99.5255 % | 103.4219 % | 100.6176 % | 99.5009 % | 101.8370 % |
| Concentration per Run 3 | 0.0046 ppm | 103.2959 % | 99.2350 % | 103.9291 % | 101.7349 % | 100.0635 % | 101.6793 % |
| Recovery Percentage 1 | 91.704 % | | | | | | |
| Concentration RSD | 2.0 % | 0.7 % | 0.2 % | 0.3 % | 0.6 % | 0.3 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: zLLOQ 0.01ppm
Analysis started at: 12/23/2024 6:51:18 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 | 0.0104 ppm | 0.2610 ppm | 0.0096 ppm | 0.0096 ppm | 0.0101 ppm | 0.0098 ppm | 0.1236 ppm |
| Concentration per Run 1 | 0.0106 ppm | 0.2645 ppm | 0.0114 ppm | 0.0100 ppm | 0.0100 ppm | 0.0098 ppm | 0.1231 ppm |
| Concentration per Run 2 | 0.0104 ppm | 0.2615 ppm | 0.0076 ppm | 0.0096 ppm | 0.0100 ppm | 0.0097 ppm | 0.1230 ppm |
| Concentration per Run 3 | 0.0102 ppm | 0.2569 ppm | 0.0098 ppm | 0.0093 ppm | 0.0101 ppm | 0.0098 ppm | 0.1245 ppm |
| Recovery Percentage 1 | 0.000 % | 0.000 % | 96.271 % | 96.126 % | 100.502 % | 0.000 % | 0.000 % |
| Concentration RSD | 1.6 % | 1.5 % | 19.8 % | 3.7 % | 0.8 % | 0.4 % | 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 | 0.0100 ppm | 0.0104 ppm | 0.0099 ppm | 0.0103 ppm | 0.2721 ppm | 0.3622 ppm | 0.0104 ppm |
| Concentration per Run 1 | 0.0100 ppm | 0.0103 ppm | 0.0100 ppm | 0.0103 ppm | 0.2731 ppm | 0.3653 ppm | 0.0104 ppm |
| Concentration per Run 2 | 0.0099 ppm | 0.0106 ppm | 0.0102 ppm | 0.0104 ppm | 0.2722 ppm | 0.3670 ppm | 0.0102 ppm |
| Concentration per Run 3 | 0.0100 ppm | 0.0102 ppm | 0.0096 ppm | 0.0101 ppm | 0.2711 ppm | 0.3544 ppm | 0.0105 ppm |
| Recovery Percentage 1 | 0.000 % | 103.582 % | 98.900 % | 102.796 % | 0.000 % | 0.000 % | 103.880 % |
| Concentration RSD | 0.6 % | 1.8 % | 3.1 % | 1.5 % | 0.4 % | 1.9 % | 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 | 0.1049 ppm | 0.0101 ppm | 0.0103 ppm | 0.2642 ppm | 0.0108 ppm | 0.0098 ppm | 0.0126 ppm |
| Concentration per Run 1 | 0.1065 ppm | 0.0101 ppm | 0.0102 ppm | 0.2658 ppm | 0.0113 ppm | 0.0088 ppm | 0.0136 ppm |
| Concentration per Run 2 | 0.1042 ppm | 0.0101 ppm | 0.0104 ppm | 0.2662 ppm | 0.0105 ppm | 0.0100 ppm | 0.0131 ppm |
| Concentration per Run 3 | 0.1039 ppm | 0.0101 ppm | 0.0104 ppm | 0.2605 ppm | 0.0107 ppm | 0.0105 ppm | 0.0112 ppm |
| Recovery Percentage 1 | 0.000 % | 100.923 % | 103.398 % | 0.000 % | 108.340 % | 97.761 % | 0.000 % |
| Concentration RSD | 1.3 % | 0.3 % | 1.5 % | 1.2 % | 3.9 % | 9.1 % | 9.8 % |

| | 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 | 0.0088 ppm | 0.0941 ppm | 0.0121 ppm | 0.0103 ppm | 0.0098 ppm | 0.0105 ppm | 0.0101 ppm |
| Concentration per Run 1 | 0.0091 ppm | 0.0950 ppm | 0.0123 ppm | 0.0103 ppm | 0.0099 ppm | 0.0107 ppm | 0.0101 ppm |
| Concentration per Run 2 | 0.0072 ppm | 0.0945 ppm | 0.0115 ppm | 0.0102 ppm | 0.0097 ppm | 0.0103 ppm | 0.0103 ppm |
| Concentration per Run 3 | 0.0101 ppm | 0.0929 ppm | 0.0124 ppm | 0.0104 ppm | 0.0098 ppm | 0.0105 ppm | 0.0100 ppm |
| Recovery Percentage 1 | 87.847 % | 0.000 % | 120.878 % | 102.990 % | 97.859 % | 104.646 % | 101.068 % |
| Concentration RSD | 16.9 % | 1.2 % | 4.3 % | 0.8 % | 0.9 % | 1.7 % | 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 | 0.0100 ppm | 98.5411 % | 99.3003 % | 97.9427 % | 97.2822 % | 99.9423 % | 98.8187 % |
| Concentration per Run 1 | 0.0101 ppm | 97.7993 % | 99.4020 % | 97.3242 % | 97.3858 % | 99.9770 % | 98.6838 % |
| Concentration per Run 2 | 0.0100 ppm | 98.5439 % | 99.1613 % | 98.5940 % | 97.2175 % | 100.1019 % | 99.2588 % |
| Concentration per Run 3 | 0.0098 ppm | 99.2801 % | 99.3375 % | 97.9099 % | 97.2432 % | 99.7479 % | 98.5135 % |
| Recovery Percentage 1 | 99.758 % | | | | | | |
| Concentration RSD | 1.5 % | 0.8 % | 0.1 % | 0.6 % | 0.1 % | 0.2 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: LDR 500PPM Fe pass
Analysis started at: 12/23/2024 6:55:42 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 | 0.0013 ppm | 0.0467 ppm | 0.0038 ppm | 0.0017 ppm | 0.0005 ppm | 0.0000 ppm | 0.0183 ppm |
| Concentration per Run 1 | 0.0010 ppm | 0.0485 ppm | 0.0029 ppm | 0.0018 ppm | 0.0005 ppm | 0.0000 ppm | 0.0172 ppm |
| Concentration per Run 2 | 0.0016 ppm | 0.0451 ppm | 0.0051 ppm | 0.0012 ppm | 0.0005 ppm | 0.0000 ppm | 0.0178 ppm |
| Concentration per Run 3 | 0.0014 ppm | 0.0466 ppm | 0.0033 ppm | 0.0020 ppm | 0.0004 ppm | 0.0000 ppm | 0.0198 ppm |
| Concentration RSD | 19.9 % | 3.6 % | 31.8 % | 25.3 % | 4.8 % | 66.8 % | 7.3 % |

| | 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 | -0.0022 ppm | -0.0016 ppm | 0.0015 ppm | 447.9131 ppm | -0.0772 ppm | -0.0003 ppm |
| Concentration per Run 1 | 0.0009 ppm | -0.0022 ppm | -0.0016 ppm | 0.0009 ppm | 449.4078 ppm | -0.0732 ppm | 0.0000 ppm |
| Concentration per Run 2 | 0.0012 ppm | -0.0022 ppm | -0.0016 ppm | 0.0014 ppm | 448.2298 ppm | -0.0870 ppm | -0.0006 ppm |
| Concentration per Run 3 | 0.0011 ppm | -0.0023 ppm | -0.0017 ppm | 0.0021 ppm | 446.1017 ppm | -0.0714 ppm | -0.0001 ppm |
| Concentration RSD | 14.7 % | 1.5 % | 5.1 % | 39.3 % | 0.4 % | 11.1 % | 123.4 % |

| | 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 | 0.0446 ppm | 0.0006 ppm | -0.0033 ppm | 0.0079 ppm | -0.0011 ppm | -0.0031 ppm | 0.0078 ppm |
| Concentration per Run 1 | 0.0433 ppm | 0.0007 ppm | -0.0037 ppm | 0.0073 ppm | -0.0007 ppm | -0.0030 ppm | 0.0097 ppm |
| Concentration per Run 2 | 0.0446 ppm | 0.0005 ppm | -0.0028 ppm | 0.0073 ppm | -0.0014 ppm | -0.0027 ppm | 0.0061 ppm |
| Concentration per Run 3 | 0.0460 ppm | 0.0007 ppm | -0.0033 ppm | 0.0090 ppm | -0.0013 ppm | -0.0036 ppm | 0.0077 ppm |
| Concentration RSD | 3.0 % | 15.4 % | 13.4 % | 12.4 % | 32.7 % | 14.5 % | 23.1 % |

| | 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 | -0.0019 ppm | 0.0010 ppm | 0.0024 ppm | 0.0003 ppm | -0.0002 ppm | -0.0001 ppm | -0.0010 ppm |
| Concentration per Run 1 | -0.0014 ppm | 0.0013 ppm | 0.0020 ppm | 0.0003 ppm | -0.0002 ppm | 0.0006 ppm | -0.0004 ppm |
| Concentration per Run 2 | -0.0036 ppm | 0.0021 ppm | 0.0022 ppm | 0.0004 ppm | -0.0003 ppm | -0.0008 ppm | -0.0009 ppm |
| Concentration per Run 3 | -0.0008 ppm | -0.0002 ppm | 0.0029 ppm | 0.0003 ppm | -0.0001 ppm | -0.0001 ppm | -0.0017 ppm |
| Concentration RSD | 76.7 % | 108.0 % | 19.1 % | 10.2 % | 36.7 % | 647.1 % | 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 | -0.0006 ppm | 98.3392 % | 98.7814 % | 84.2864 % | 92.5726 % | 97.5406 % | 92.1714 % |
| Concentration per Run 1 | -0.0007 ppm | 98.3304 % | 98.5695 % | 84.1384 % | 92.7443 % | 97.5618 % | 92.0567 % |
| Concentration per Run 2 | -0.0004 ppm | 98.7572 % | 98.4424 % | 84.6922 % | 92.8083 % | 97.2236 % | 92.6561 % |
| Concentration per Run 3 | -0.0007 ppm | 97.9300 % | 99.3325 % | 84.0286 % | 92.1651 % | 97.8363 % | 91.8015 % |
| Concentration RSD | 26.5 % | 0.4 % | 0.5 % | 0.4 % | 0.4 % | 0.3 % | 0.5 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: LDR 1000PPM Ca pass
Analysis started at: 12/23/2024 7:01:06 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 | -0.0007 ppm | 0.0212 ppm | -0.0003 ppm | 0.0042 ppm | 0.0010 ppm | 0.0000 ppm | 931.7075 ppm |
| Concentration per Run 1 | -0.0005 ppm | 0.0253 ppm | -0.0013 ppm | 0.0039 ppm | 0.0010 ppm | 0.0000 ppm | 927.7629 ppm |
| Concentration per Run 2 | -0.0008 ppm | 0.0173 ppm | 0.0007 ppm | 0.0037 ppm | 0.0009 ppm | 0.0000 ppm | 932.8249 ppm |
| Concentration per Run 3 | -0.0010 ppm | 0.0211 ppm | -0.0001 ppm | 0.0049 ppm | 0.0010 ppm | 0.0000 ppm | 934.5346 ppm |
| Concentration RSD | 35.7 % | 19.0 % | 395.5 % | 15.8 % | 5.1 % | 189.2 % | 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 | -0.0007 ppm | 0.0006 ppm | 0.0001 ppm | 0.0009 ppm | 0.0240 ppm | 0.0001 ppm | 0.0267 ppm |
| Concentration per Run 1 | -0.0006 ppm | 0.0006 ppm | 0.0003 ppm | 0.0009 ppm | 0.0253 ppm | -0.0035 ppm | 0.0176 ppm |
| Concentration per Run 2 | -0.0008 ppm | 0.0009 ppm | 0.0001 ppm | 0.0008 ppm | 0.0242 ppm | 0.0016 ppm | 0.0299 ppm |
| Concentration per Run 3 | -0.0008 ppm | 0.0002 ppm | -0.0002 ppm | 0.0009 ppm | 0.0225 ppm | 0.0020 ppm | 0.0327 ppm |
| Concentration RSD | 18.0 % | 62.3 % | 261.6 % | 8.8 % | 5.9 % | 5,666.1 % | 30.1 % |

| | 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 | 0.0119 ppm | 0.0003 ppm | 0.0001 ppm | 0.0147 ppm | 0.0007 ppm | 0.0012 ppm | 0.0002 ppm |
| Concentration per Run 1 | 0.0113 ppm | 0.0003 ppm | 0.0003 ppm | 0.0138 ppm | 0.0007 ppm | 0.0012 ppm | -0.0002 ppm |
| Concentration per Run 2 | 0.0126 ppm | 0.0003 ppm | 0.0003 ppm | 0.0144 ppm | 0.0013 ppm | 0.0021 ppm | -0.0006 ppm |
| Concentration per Run 3 | 0.0118 ppm | 0.0003 ppm | -0.0002 ppm | 0.0160 ppm | 0.0002 ppm | 0.0004 ppm | 0.0012 ppm |
| Concentration RSD | 5.7 % | 9.1 % | 209.2 % | 7.8 % | 76.9 % | 70.2 % | 595.0 % |

| | 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 | -0.0015 ppm | 0.0071 ppm | 0.0009 ppm | 0.0017 ppm | -0.0017 ppm | 0.0006 ppm | 0.0007 ppm |
| Concentration per Run 1 | -0.0008 ppm | 0.0067 ppm | 0.0017 ppm | 0.0017 ppm | -0.0017 ppm | -0.0005 ppm | 0.0008 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0065 ppm | 0.0007 ppm | 0.0017 ppm | -0.0017 ppm | 0.0015 ppm | 0.0008 ppm |
| Concentration per Run 3 | -0.0039 ppm | 0.0080 ppm | 0.0003 ppm | 0.0017 ppm | -0.0016 ppm | 0.0009 ppm | 0.0006 ppm |
| Concentration RSD | 139.0 % | 11.4 % | 79.8 % | 1.0 % | 3.0 % | 154.8 % | 21.9 % |

| | 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 | 0.0002 ppm | 82.5031 % | 90.9956 % | 72.0146 % | 81.1899 % | 91.8142 % | 82.6106 % |
| Concentration per Run 1 | 0.0003 ppm | 81.9298 % | 91.5072 % | 71.8153 % | 81.0146 % | 92.1873 % | 82.6696 % |
| Concentration per Run 2 | 0.0003 ppm | 82.3518 % | 90.4829 % | 71.8602 % | 81.1983 % | 91.1291 % | 82.4054 % |
| Concentration per Run 3 | -0.0001 ppm | 83.2277 % | 90.9968 % | 72.3684 % | 81.3569 % | 92.1264 % | 82.7567 % |
| Concentration RSD | 126.6 % | 0.8 % | 0.6 % | 0.4 % | 0.2 % | 0.6 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 7:33:07 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 | 0.4772 ppm | 0.4718 ppm | 0.4607 ppm | 0.4539 ppm | 0.4790 ppm | 0.4902 ppm | 0.4900 ppm |
| Concentration per Run 1 | 0.4792 ppm | 0.4712 ppm | 0.4594 ppm | 0.4556 ppm | 0.4770 ppm | 0.4911 ppm | 0.4922 ppm |
| Concentration per Run 2 | 0.4774 ppm | 0.4696 ppm | 0.4597 ppm | 0.4540 ppm | 0.4792 ppm | 0.4907 ppm | 0.4901 ppm |
| Concentration per Run 3 | 0.4752 ppm | 0.4745 ppm | 0.4629 ppm | 0.4521 ppm | 0.4807 ppm | 0.4890 ppm | 0.4877 ppm |
| Recovery Percentage 1 | 95.449 % | 94.350 % | 92.133 % | 90.781 % | 95.798 % | 98.049 % | 98.002 % |
| Concentration RSD | 0.4 % | 0.5 % | 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 | 0.4846 ppm | 0.4953 ppm | 0.4754 ppm | 0.4719 ppm | 0.4926 ppm | 5.1110 ppm | 0.4842 ppm |
| Concentration per Run 1 | 0.4874 ppm | 0.4972 ppm | 0.4772 ppm | 0.4736 ppm | 0.4947 ppm | 5.1175 ppm | 0.4849 ppm |
| Concentration per Run 2 | 0.4842 ppm | 0.4941 ppm | 0.4747 ppm | 0.4715 ppm | 0.4912 ppm | 5.0902 ppm | 0.4819 ppm |
| Concentration per Run 3 | 0.4821 ppm | 0.4948 ppm | 0.4742 ppm | 0.4706 ppm | 0.4918 ppm | 5.1254 ppm | 0.4857 ppm |
| Recovery Percentage 1 | 96.910 % | 99.067 % | 95.073 % | 94.381 % | 98.516 % | 102.220 % | 96.833 % |
| Concentration RSD | 0.5 % | 0.3 % | 0.3 % | 0.3 % | 0.4 % | 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 | 0.4821 ppm | 0.4789 ppm | 0.4807 ppm | 9.9671 ppm | 0.4914 ppm | 0.4757 ppm | 0.4885 ppm |
| Concentration per Run 1 | 0.4854 ppm | 0.4792 ppm | 0.4803 ppm | 9.9901 ppm | 0.4923 ppm | 0.4748 ppm | 0.4910 ppm |
| Concentration per Run 2 | 0.4802 ppm | 0.4803 ppm | 0.4795 ppm | 9.9327 ppm | 0.4915 ppm | 0.4748 ppm | 0.4908 ppm |
| Concentration per Run 3 | 0.4807 ppm | 0.4771 ppm | 0.4824 ppm | 9.9786 ppm | 0.4905 ppm | 0.4776 ppm | 0.4837 ppm |
| Recovery Percentage 1 | 96.423 % | 95.774 % | 96.146 % | 99.671 % | 98.287 % | 95.149 % | 97.705 % |
| Concentration RSD | 0.6 % | 0.3 % | 0.3 % | 0.3 % | 0.2 % | 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 | 0.4635 ppm | 5.1202 ppm | 0.5008 ppm | 0.5060 ppm | 0.4790 ppm | 0.4806 ppm | 0.4839 ppm |
| Concentration per Run 1 | 0.4634 ppm | 5.1274 ppm | 0.5025 ppm | 0.5063 ppm | 0.4805 ppm | 0.4801 ppm | 0.4867 ppm |
| Concentration per Run 2 | 0.4644 ppm | 5.1229 ppm | 0.4987 ppm | 0.5051 ppm | 0.4797 ppm | 0.4799 ppm | 0.4833 ppm |
| Concentration per Run 3 | 0.4627 ppm | 5.1104 ppm | 0.5011 ppm | 0.5066 ppm | 0.4766 ppm | 0.4819 ppm | 0.4817 ppm |
| Recovery Percentage 1 | 92.701 % | 97.528 % | 100.152 % | 101.199 % | 95.791 % | 96.128 % | 96.779 % |
| Concentration RSD | 0.2 % | 0.2 % | 0.4 % | 0.2 % | 0.4 % | 0.2 % | 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 | 0.4846 ppm | 99.4843 % | 100.6088 % | 96.1965 % | 94.9538 % | 99.0682 % | 97.3301 % |
| Concentration per Run 1 | 0.4873 ppm | 99.3437 % | 100.6719 % | 96.0501 % | 95.0446 % | 99.3496 % | 97.1441 % |
| Concentration per Run 2 | 0.4834 ppm | 99.4402 % | 100.1460 % | 96.3607 % | 94.8581 % | 98.9138 % | 97.2660 % |
| Concentration per Run 3 | 0.4831 ppm | 99.6690 % | 101.0084 % | 96.1786 % | 94.9587 % | 98.9411 % | 97.5801 % |
| Recovery Percentage 1 | 96.920 % | | | | | | |
| Concentration RSD | 0.5 % | 0.2 % | 0.4 % | 0.2 % | 0.1 % | 0.2 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 7:37:38 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 | -0.0011 ppm | -0.0010 ppm | 0.0007 ppm | 0.0000 ppm | 0.0000 ppm | 0.0029 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.0011 ppm | 0.0003 ppm | 0.0008 ppm | 0.0001 ppm | 0.0000 ppm | 0.0018 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0019 ppm | -0.0027 ppm | 0.0006 ppm | 0.0001 ppm | 0.0000 ppm | 0.0038 ppm |
| Concentration per Run 3 | 0.0002 ppm | -0.0027 ppm | -0.0005 ppm | 0.0007 ppm | 0.0000 ppm | 0.0000 ppm | 0.0032 ppm |
| Recovery Percentage 1 | 3.530 % | -1.149 % | -19.144 % | 2.188 % | 0.499 % | 0.278 % | 2.948 % |
| Concentration RSD | 23.8 % | 175.8 % | 160.3 % | 15.0 % | 85.2 % | 74.0 % | 36.2 % |

| | 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 | 0.0000 ppm | 0.0000 ppm | 0.0003 ppm | -0.0002 ppm | -0.0001 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0001 ppm | -0.0003 ppm | 0.0002 ppm | -0.0001 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0001 ppm | 0.0000 ppm | 0.0000 ppm | 0.0010 ppm | -0.0075 ppm | -0.0001 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0003 ppm | 0.0000 ppm | 0.0001 ppm | 0.0003 ppm | 0.0067 ppm | -0.0002 ppm |
| Recovery Percentage 1 | 0.291 % | -1.499 % | -0.407 % | 0.467 % | 0.696 % | -0.008 % | -1.215 % |
| Concentration RSD | 223.5 % | 92.4 % | 17.1 % | 186.3 % | 192.7 % | 3,747.8 % | 51.4 % |

| | 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 | -0.0014 ppm | 0.0000 ppm | 0.0020 ppm | 0.0003 ppm | 0.0004 ppm | -0.0003 ppm | 0.0012 ppm |
| Concentration per Run 1 | -0.0022 ppm | 0.0000 ppm | 0.0022 ppm | -0.0013 ppm | 0.0005 ppm | -0.0006 ppm | 0.0013 ppm |
| Concentration per Run 2 | -0.0013 ppm | 0.0000 ppm | 0.0017 ppm | 0.0012 ppm | 0.0003 ppm | 0.0000 ppm | 0.0012 ppm |
| Concentration per Run 3 | -0.0008 ppm | 0.0000 ppm | 0.0020 ppm | 0.0009 ppm | 0.0005 ppm | -0.0002 ppm | 0.0011 ppm |
| Recovery Percentage 1 | -1.398 % | 0.053 % | 3.939 % | 0.013 % | 1.626 % | -2.615 % | 2.431 % |
| Concentration RSD | 51.4 % | 557.4 % | 12.2 % | 506.2 % | 24.9 % | 134.3 % | 5.6 % |

| | 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 | -0.0016 ppm | 0.0000 ppm | 0.0004 ppm | 0.0000 ppm | -0.0001 ppm | -0.0005 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0013 ppm | -0.0008 ppm | 0.0007 ppm | 0.0000 ppm | -0.0002 ppm | -0.0012 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0009 ppm | 0.0003 ppm | 0.0004 ppm | 0.0001 ppm | -0.0001 ppm | -0.0006 ppm | 0.0001 ppm |
| Concentration per Run 3 | -0.0025 ppm | 0.0005 ppm | 0.0002 ppm | 0.0000 ppm | 0.0000 ppm | 0.0004 ppm | 0.0002 ppm |
| Recovery Percentage 1 | -15.801 % | -0.001 % | 0.845 % | 0.386 % | -1.002 % | -2.329 % | 1.469 % |
| Concentration RSD | 54.5 % | 11,532.7 % | 53.7 % | 96.4 % | 118.8 % | 179.4 % | 39.1 % |

| | 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 | 0.0002 ppm | 97.6147 % | 99.0952 % | 96.8874 % | 96.9208 % | 99.6232 % | 98.7291 % |
| Concentration per Run 1 | 0.0002 ppm | 96.9834 % | 98.7412 % | 96.5361 % | 97.1562 % | 99.4322 % | 98.7815 % |
| Concentration per Run 2 | 0.0002 ppm | 97.6398 % | 98.7655 % | 97.1556 % | 97.1821 % | 99.0821 % | 98.7631 % |
| Concentration per Run 3 | 0.0001 ppm | 98.2209 % | 99.7789 % | 96.9704 % | 96.4240 % | 100.3553 % | 98.6426 % |
| Recovery Percentage 1 | 3.663 % | | | | | | |
| Concentration RSD | 28.1 % | 0.6 % | 0.6 % | 0.3 % | 0.4 % | 0.7 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473791-66D2 WG2010931
Analysis started at: 12/23/2024 7:49:54 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 | 0.0070 ppm | 128.6901 ppm | 0.0638 ppm | 0.0124 ppm | 2.2862 ppm | 0.0092 ppm | 13.4884 ppm |
| Concentration per Run 1 | 0.0072 ppm | 129.3115 ppm | 0.0649 ppm | 0.0130 ppm | 2.2824 ppm | 0.0092 ppm | 13.5353 ppm |
| Concentration per Run 2 | 0.0070 ppm | 128.8170 ppm | 0.0637 ppm | 0.0125 ppm | 2.2930 ppm | 0.0092 ppm | 13.5104 ppm |
| Concentration per Run 3 | 0.0068 ppm | 127.9420 ppm | 0.0628 ppm | 0.0116 ppm | 2.2831 ppm | 0.0092 ppm | 13.4195 ppm |
| Concentration RSD | 2.6 % | 0.5 % | 1.7 % | 6.0 % | 0.3 % | 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 | 0.0062 ppm | 0.1447 ppm | 0.2478 ppm | 0.2941 ppm | 416.7717 ppm | 10.1400 ppm | 0.1993 ppm |
| Concentration per Run 1 | 0.0067 ppm | 0.1456 ppm | 0.2494 ppm | 0.2950 ppm | 416.6991 ppm | 10.1847 ppm | 0.2007 ppm |
| Concentration per Run 2 | 0.0058 ppm | 0.1447 ppm | 0.2474 ppm | 0.2937 ppm | 418.4505 ppm | 10.1089 ppm | 0.1984 ppm |
| Concentration per Run 3 | 0.0062 ppm | 0.1438 ppm | 0.2466 ppm | 0.2937 ppm | 415.1656 ppm | 10.1264 ppm | 0.1989 ppm |
| Concentration RSD | 6.9 % | 0.6 % | 0.6 % | 0.3 % | 0.4 % | 0.4 % | 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 | 46.1758 ppm | 11.5738 ppm | 0.0097 ppm | 0.5768 ppm | 0.3043 ppm | 0.2091 ppm | 0.0063 ppm |
| Concentration per Run 1 | 46.3115 ppm | 11.6107 ppm | 0.0097 ppm | 0.5838 ppm | 0.3066 ppm | 0.2110 ppm | 0.0054 ppm |
| Concentration per Run 2 | 46.2928 ppm | 11.5845 ppm | 0.0096 ppm | 0.5763 ppm | 0.3035 ppm | 0.2098 ppm | 0.0062 ppm |
| Concentration per Run 3 | 45.9233 ppm | 11.5260 ppm | 0.0099 ppm | 0.5703 ppm | 0.3026 ppm | 0.2065 ppm | 0.0074 ppm |
| Concentration RSD | 0.5 % | 0.4 % | 1.9 % | 1.2 % | 0.7 % | 1.1 % | 16.2 % |

| | 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 | -0.0051 ppm | 1.5743 ppm | 0.0074 ppm | 0.1227 ppm | 0.5832 ppm | -0.0082 ppm | 0.3504 ppm |
| Concentration per Run 1 | -0.0061 ppm | 1.5857 ppm | 0.0070 ppm | 0.1230 ppm | 0.5855 ppm | -0.0071 ppm | 0.3507 ppm |
| Concentration per Run 2 | -0.0046 ppm | 1.5674 ppm | 0.0082 ppm | 0.1227 ppm | 0.5830 ppm | -0.0082 ppm | 0.3514 ppm |
| Concentration per Run 3 | -0.0047 ppm | 1.5699 ppm | 0.0069 ppm | 0.1225 ppm | 0.5812 ppm | -0.0092 ppm | 0.3490 ppm |
| Concentration RSD | 15.7 % | 0.6 % | 9.5 % | 0.2 % | 0.4 % | 12.4 % | 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 | 0.9120 ppm | 102.6128 % | 108.2431 % | 85.6574 % | 136.1145 % | 153.8538 % | 143.1808 % |
| Concentration per Run 1 | 0.9142 ppm | 102.4902 % | 108.3362 % | 86.3473 % | 136.2334 % | 154.4947 % | 144.3454 % |
| Concentration per Run 2 | 0.9150 ppm | 102.8236 % | 108.0886 % | 85.6795 % | 136.0891 % | 153.3813 % | 143.3403 % |
| Concentration per Run 3 | 0.9069 ppm | 102.5245 % | 108.3045 % | 84.9453 % | 136.0209 % | 153.6854 % | 141.8566 % |
| Concentration RSD | 0.5 % | 0.2 % | 0.1 % | 0.8 % | 0.1 % | 0.4 % | 0.9 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473880-04D2 WG2010931
Analysis started at: 12/23/2024 7:54:25 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 | 0.0030 ppm | 47.7917 ppm | 0.0153 ppm | 0.0097 ppm | 0.4326 ppm | 0.0032 ppm | 13.0666 ppm |
| Concentration per Run 1 | 0.0029 ppm | 47.8409 ppm | 0.0157 ppm | 0.0103 ppm | 0.4342 ppm | 0.0032 ppm | 13.0402 ppm |
| Concentration per Run 2 | 0.0030 ppm | 47.6614 ppm | 0.0147 ppm | 0.0094 ppm | 0.4303 ppm | 0.0032 ppm | 13.0681 ppm |
| Concentration per Run 3 | 0.0031 ppm | 47.8727 ppm | 0.0154 ppm | 0.0095 ppm | 0.4332 ppm | 0.0032 ppm | 13.0915 ppm |
| Concentration RSD | 3.8 % | 0.2 % | 3.3 % | 5.2 % | 0.5 % | 0.7 % | 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 | 0.0021 ppm | 0.0568 ppm | 0.2733 ppm | 0.1696 ppm | 151.0756 ppm | 8.5362 ppm | 0.0573 ppm |
| Concentration per Run 1 | 0.0020 ppm | 0.0572 ppm | 0.2750 ppm | 0.1693 ppm | 150.9067 ppm | 8.6068 ppm | 0.0581 ppm |
| Concentration per Run 2 | 0.0023 ppm | 0.0562 ppm | 0.2723 ppm | 0.1704 ppm | 150.9166 ppm | 8.4808 ppm | 0.0566 ppm |
| Concentration per Run 3 | 0.0021 ppm | 0.0571 ppm | 0.2727 ppm | 0.1692 ppm | 151.4035 ppm | 8.5212 ppm | 0.0573 ppm |
| Concentration RSD | 5.2 % | 1.0 % | 0.5 % | 0.4 % | 0.2 % | 0.8 % | 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 | 25.2839 ppm | 3.4855 ppm | 0.0012 ppm | 0.5582 ppm | 0.1166 ppm | 0.3654 ppm | 0.0040 ppm |
| Concentration per Run 1 | 25.4391 ppm | 3.4799 ppm | 0.0007 ppm | 0.5622 ppm | 0.1178 ppm | 0.3662 ppm | 0.0054 ppm |
| Concentration per Run 2 | 25.2205 ppm | 3.4811 ppm | 0.0014 ppm | 0.5543 ppm | 0.1165 ppm | 0.3651 ppm | 0.0016 ppm |
| Concentration per Run 3 | 25.1922 ppm | 3.4955 ppm | 0.0015 ppm | 0.5581 ppm | 0.1154 ppm | 0.3647 ppm | 0.0050 ppm |
| Concentration RSD | 0.5 % | 0.2 % | 33.8 % | 0.7 % | 1.0 % | 0.2 % | 52.1 % |

| | 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 | 2.2704 ppm | 0.0072 ppm | 0.0664 ppm | 2.9029 ppm | 0.0015 ppm | 0.2794 ppm |
| Concentration per Run 1 | -0.0054 ppm | 2.2667 ppm | 0.0072 ppm | 0.0666 ppm | 2.9194 ppm | 0.0016 ppm | 0.2812 ppm |
| Concentration per Run 2 | -0.0045 ppm | 2.2707 ppm | 0.0069 ppm | 0.0663 ppm | 2.8995 ppm | 0.0019 ppm | 0.2792 ppm |
| Concentration per Run 3 | -0.0015 ppm | 2.2738 ppm | 0.0075 ppm | 0.0663 ppm | 2.8899 ppm | 0.0010 ppm | 0.2777 ppm |
| Concentration RSD | 54.1 % | 0.2 % | 4.3 % | 0.3 % | 0.5 % | 29.4 % | 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 | 0.4385 ppm | 100.9630 % | 106.2033 % | 89.3309 % | 110.0380 % | 123.0740 % | 116.9316 % |
| Concentration per Run 1 | 0.4419 ppm | 101.1612 % | 106.8243 % | 89.8192 % | 110.4815 % | 123.8702 % | 117.6501 % |
| Concentration per Run 2 | 0.4351 ppm | 101.1466 % | 106.0952 % | 89.1051 % | 110.4437 % | 122.8287 % | 116.7752 % |
| Concentration per Run 3 | 0.4387 ppm | 100.5811 % | 105.6905 % | 89.0685 % | 109.1887 % | 122.5231 % | 116.3695 % |
| Concentration RSD | 0.8 % | 0.3 % | 0.5 % | 0.5 % | 0.7 % | 0.6 % | 0.6 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473880-07D2 WG2010931
Analysis started at: 12/23/2024 7:58:50 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 | 0.0026 ppm | 43.9298 ppm | 0.0149 ppm | 0.0087 ppm | 0.4060 ppm | 0.0031 ppm | 11.1020 ppm |
| Concentration per Run 1 | 0.0032 ppm | 44.7798 ppm | 0.0141 ppm | 0.0085 ppm | 0.4112 ppm | 0.0031 ppm | 11.0923 ppm |
| Concentration per Run 2 | 0.0016 ppm | 43.2388 ppm | 0.0149 ppm | 0.0088 ppm | 0.4011 ppm | 0.0030 ppm | 11.1124 ppm |
| Concentration per Run 3 | 0.0029 ppm | 43.7708 ppm | 0.0157 ppm | 0.0089 ppm | 0.4056 ppm | 0.0031 ppm | 11.1014 ppm |
| Concentration RSD | 32.4 % | 1.8 % | 5.4 % | 2.7 % | 1.3 % | 2.2 % | 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 | 0.0534 ppm | 0.1279 ppm | 0.1620 ppm | 145.1188 ppm | 8.9330 ppm | 0.0488 ppm |
| Concentration per Run 1 | 0.0020 ppm | 0.0538 ppm | 0.1295 ppm | 0.1637 ppm | 144.4326 ppm | 8.9662 ppm | 0.0501 ppm |
| Concentration per Run 2 | 0.0011 ppm | 0.0526 ppm | 0.1255 ppm | 0.1598 ppm | 145.6054 ppm | 8.8808 ppm | 0.0480 ppm |
| Concentration per Run 3 | 0.0020 ppm | 0.0536 ppm | 0.1286 ppm | 0.1626 ppm | 145.3184 ppm | 8.9521 ppm | 0.0482 ppm |
| Concentration RSD | 31.1 % | 1.2 % | 1.6 % | 1.2 % | 0.4 % | 0.5 % | 2.3 % |

| | 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 | 15.4953 ppm | 3.9897 ppm | 0.0019 ppm | 0.5039 ppm | 0.0924 ppm | 0.2836 ppm | 0.0051 ppm |
| Concentration per Run 1 | 15.6423 ppm | 3.9636 ppm | 0.0018 ppm | 0.5095 ppm | 0.0924 ppm | 0.2837 ppm | 0.0052 ppm |
| Concentration per Run 2 | 15.3021 ppm | 4.0093 ppm | 0.0018 ppm | 0.4995 ppm | 0.0913 ppm | 0.2843 ppm | 0.0055 ppm |
| Concentration per Run 3 | 15.5416 ppm | 3.9962 ppm | 0.0021 ppm | 0.5028 ppm | 0.0935 ppm | 0.2827 ppm | 0.0046 ppm |
| Concentration RSD | 1.1 % | 0.6 % | 8.9 % | 1.0 % | 1.2 % | 0.3 % | 9.0 % |

| | 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 | -0.0036 ppm | 2.4258 ppm | 0.0110 ppm | 0.0571 ppm | 2.8186 ppm | 0.0003 ppm | 0.2643 ppm |
| Concentration per Run 1 | -0.0031 ppm | 2.4754 ppm | 0.0108 ppm | 0.0573 ppm | 2.8406 ppm | 0.0000 ppm | 0.2635 ppm |
| Concentration per Run 2 | -0.0033 ppm | 2.3490 ppm | 0.0106 ppm | 0.0566 ppm | 2.7838 ppm | 0.0018 ppm | 0.2668 ppm |
| Concentration per Run 3 | -0.0044 ppm | 2.4531 ppm | 0.0116 ppm | 0.0572 ppm | 2.8313 ppm | -0.0011 ppm | 0.2626 ppm |
| Concentration RSD | 19.8 % | 2.8 % | 4.9 % | 0.7 % | 1.1 % | 572.9 % | 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 | 0.3579 ppm | 101.4834 % | 105.7796 % | 88.8398 % | 114.3681 % | 126.1644 % | 119.2851 % |
| Concentration per Run 1 | 0.3635 ppm | 99.9589 % | 107.4095 % | 88.8254 % | 112.2908 % | 127.5507 % | 119.4194 % |
| Concentration per Run 2 | 0.3512 ppm | 104.0936 % | 104.5605 % | 88.7902 % | 118.1944 % | 124.7662 % | 119.1861 % |
| Concentration per Run 3 | 0.3590 ppm | 100.3976 % | 105.3690 % | 88.9039 % | 112.6190 % | 126.1764 % | 119.2497 % |
| Concentration RSD | 1.7 % | 2.2 % | 1.4 % | 0.1 % | 2.9 % | 1.1 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473887-03D2 WG2010931
Analysis started at: 12/23/2024 8:03:15 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 | 0.0047 ppm | 147.4356 ppm | 0.0522 ppm | 0.0129 ppm | 1.4192 ppm | 0.0071 ppm | 100.0424 ppm |
| Concentration per Run 1 | 0.0059 ppm | 147.5929 ppm | 0.0519 ppm | 0.0119 ppm | 1.4272 ppm | 0.0071 ppm | 100.1927 ppm |
| Concentration per Run 2 | 0.0060 ppm | 148.6289 ppm | 0.0517 ppm | 0.0138 ppm | 1.4231 ppm | 0.0072 ppm | 101.0538 ppm |
| Concentration per Run 3 | 0.0023 ppm | 146.0849 ppm | 0.0530 ppm | 0.0130 ppm | 1.4073 ppm | 0.0070 ppm | 98.8807 ppm |
| Concentration RSD | 45.1 % | 0.9 % | 1.4 % | 7.3 % | 0.7 % | 1.4 % | 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 | 0.0025 ppm | 0.1236 ppm | 0.2140 ppm | 0.3255 ppm | 293.5923 ppm | 6.1373 ppm | 0.3799 ppm |
| Concentration per Run 1 | 0.0031 ppm | 0.1245 ppm | 0.2171 ppm | 0.3279 ppm | 294.6707 ppm | 6.1980 ppm | 0.3848 ppm |
| Concentration per Run 2 | 0.0035 ppm | 0.1246 ppm | 0.2171 ppm | 0.3272 ppm | 296.5570 ppm | 6.1770 ppm | 0.3806 ppm |
| Concentration per Run 3 | 0.0010 ppm | 0.1216 ppm | 0.2080 ppm | 0.3214 ppm | 289.5492 ppm | 6.0369 ppm | 0.3742 ppm |
| Concentration RSD | 53.7 % | 1.4 % | 2.4 % | 1.1 % | 1.2 % | 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 | 76.7736 ppm | 10.6544 ppm | 0.0127 ppm | 0.4442 ppm | 0.2630 ppm | 0.1847 ppm | 0.0015 ppm |
| Concentration per Run 1 | 77.5555 ppm | 10.6669 ppm | 0.0125 ppm | 0.4428 ppm | 0.2653 ppm | 0.1845 ppm | 0.0014 ppm |
| Concentration per Run 2 | 77.6556 ppm | 10.7568 ppm | 0.0127 ppm | 0.4490 ppm | 0.2671 ppm | 0.1845 ppm | 0.0002 ppm |
| Concentration per Run 3 | 75.1095 ppm | 10.5396 ppm | 0.0130 ppm | 0.4407 ppm | 0.2566 ppm | 0.1849 ppm | 0.0028 ppm |
| Concentration RSD | 1.9 % | 1.0 % | 1.9 % | 1.0 % | 2.1 % | 0.1 % | 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 | -0.0059 ppm | 2.9764 ppm | 0.0069 ppm | 0.2893 ppm | 0.3484 ppm | -0.0092 ppm | 0.1581 ppm |
| Concentration per Run 1 | -0.0078 ppm | 3.0395 ppm | 0.0068 ppm | 0.2907 ppm | 0.3515 ppm | -0.0100 ppm | 0.1574 ppm |
| Concentration per Run 2 | -0.0054 ppm | 3.0290 ppm | 0.0069 ppm | 0.2902 ppm | 0.3515 ppm | -0.0091 ppm | 0.1564 ppm |
| Concentration per Run 3 | -0.0044 ppm | 2.8606 ppm | 0.0069 ppm | 0.2869 ppm | 0.3421 ppm | -0.0086 ppm | 0.1607 ppm |
| Concentration RSD | 30.0 % | 3.4 % | 0.7 % | 0.7 % | 1.6 % | 7.8 % | 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 | 0.8574 ppm | 97.6791 % | 104.3367 % | 82.9838 % | 114.8801 % | 130.3550 % | 120.8564 % |
| Concentration per Run 1 | 0.8674 ppm | 96.6690 % | 104.1535 % | 83.2809 % | 113.3944 % | 129.8247 % | 121.1866 % |
| Concentration per Run 2 | 0.8735 ppm | 95.9472 % | 103.2227 % | 82.9055 % | 112.2956 % | 130.0870 % | 120.7395 % |
| Concentration per Run 3 | 0.8313 ppm | 100.4210 % | 105.6339 % | 82.7651 % | 118.9503 % | 131.1533 % | 120.6431 % |
| Concentration RSD | 2.7 % | 2.5 % | 1.2 % | 0.3 % | 3.1 % | 0.5 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473887-04D2 WG2010931
Analysis started at: 12/23/2024 8:07:41 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 | 0.0061 ppm | 152.1058 ppm | 0.0612 ppm | 0.0071 ppm | 0.9618 ppm | 0.0077 ppm | 10.5686 ppm |
| Concentration per Run 1 | 0.0056 ppm | 150.3856 ppm | 0.0602 ppm | 0.0075 ppm | 0.9472 ppm | 0.0077 ppm | 10.5899 ppm |
| Concentration per Run 2 | 0.0060 ppm | 152.2399 ppm | 0.0617 ppm | 0.0065 ppm | 0.9700 ppm | 0.0077 ppm | 10.5487 ppm |
| Concentration per Run 3 | 0.0068 ppm | 153.6920 ppm | 0.0616 ppm | 0.0075 ppm | 0.9682 ppm | 0.0077 ppm | 10.5674 ppm |
| Concentration RSD | 9.4 % | 1.1 % | 1.4 % | 8.3 % | 1.3 % | 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 | 0.0037 ppm | 0.1203 ppm | 0.1938 ppm | 0.3508 ppm | 302.2736 ppm | 5.1792 ppm | 0.3384 ppm |
| Concentration per Run 1 | 0.0033 ppm | 0.1208 ppm | 0.1931 ppm | 0.3496 ppm | 301.3039 ppm | 5.1302 ppm | 0.3321 ppm |
| Concentration per Run 2 | 0.0036 ppm | 0.1201 ppm | 0.1938 ppm | 0.3510 ppm | 303.7191 ppm | 5.2578 ppm | 0.3433 ppm |
| Concentration per Run 3 | 0.0043 ppm | 0.1201 ppm | 0.1946 ppm | 0.3517 ppm | 301.7980 ppm | 5.1496 ppm | 0.3396 ppm |
| Concentration RSD | 12.6 % | 0.3 % | 0.4 % | 0.3 % | 0.4 % | 1.3 % | 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 | 62.8435 ppm | 7.4159 ppm | 0.0006 ppm | 0.3369 ppm | 0.2599 ppm | 0.1731 ppm | 0.0033 ppm |
| Concentration per Run 1 | 63.0123 ppm | 7.4222 ppm | 0.0003 ppm | 0.3349 ppm | 0.2585 ppm | 0.1737 ppm | 0.0018 ppm |
| Concentration per Run 2 | 62.6448 ppm | 7.4434 ppm | 0.0006 ppm | 0.3371 ppm | 0.2601 ppm | 0.1729 ppm | 0.0052 ppm |
| Concentration per Run 3 | 62.8734 ppm | 7.3822 ppm | 0.0008 ppm | 0.3387 ppm | 0.2611 ppm | 0.1725 ppm | 0.0030 ppm |
| Concentration RSD | 0.3 % | 0.4 % | 42.8 % | 0.6 % | 0.5 % | 0.3 % | 52.2 % |

| | 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 | -0.0038 ppm | 2.7458 ppm | 0.0064 ppm | 0.0762 ppm | 0.3572 ppm | -0.0057 ppm | 0.1786 ppm |
| Concentration per Run 1 | -0.0033 ppm | 2.7357 ppm | 0.0062 ppm | 0.0753 ppm | 0.3570 ppm | -0.0056 ppm | 0.1804 ppm |
| Concentration per Run 2 | -0.0035 ppm | 2.7311 ppm | 0.0058 ppm | 0.0768 ppm | 0.3565 ppm | -0.0060 ppm | 0.1784 ppm |
| Concentration per Run 3 | -0.0045 ppm | 2.7706 ppm | 0.0071 ppm | 0.0765 ppm | 0.3581 ppm | -0.0054 ppm | 0.1769 ppm |
| Concentration RSD | 17.0 % | 0.8 % | 10.7 % | 1.1 % | 0.2 % | 5.2 % | 1.0 % |

| | 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 | 0.8286 ppm | 99.5889 % | 106.6908 % | 85.9387 % | 120.8149 % | 138.3725 % | 129.1389 % |
| Concentration per Run 1 | 0.8297 ppm | 100.1006 % | 106.8097 % | 85.9302 % | 121.8284 % | 138.2896 % | 129.0511 % |
| Concentration per Run 2 | 0.8256 ppm | 100.0033 % | 106.1371 % | 85.7984 % | 121.2531 % | 138.2404 % | 129.0542 % |
| Concentration per Run 3 | 0.8306 ppm | 98.6626 % | 107.1254 % | 86.0877 % | 119.3633 % | 138.5875 % | 129.3114 % |
| Concentration RSD | 0.3 % | 0.8 % | 0.5 % | 0.2 % | 1.1 % | 0.1 % | 0.1 % |

# iCAP Pro Trace 8 Data report
12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473887-05D2 WG2010931
Analysis started at: 12/23/2024 8:12:06 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 | 0.0037 ppm | 160.2196 ppm | 0.0553 ppm | 0.0060 ppm | 2.6175 ppm | 0.0083 ppm | 5.6491 ppm |
| Concentration per Run 1 | 0.0034 ppm | 161.2422 ppm | 0.0567 ppm | 0.0071 ppm | 2.6359 ppm | 0.0084 ppm | 5.6737 ppm |
| Concentration per Run 2 | 0.0038 ppm | 160.2274 ppm | 0.0541 ppm | 0.0044 ppm | 2.6222 ppm | 0.0083 ppm | 5.6694 ppm |
| Concentration per Run 3 | 0.0038 ppm | 159.1892 ppm | 0.0553 ppm | 0.0066 ppm | 2.5942 ppm | 0.0082 ppm | 5.6042 ppm |
| Concentration RSD | 6.3 % | 0.6 % | 2.4 % | 23.7 % | 0.8 % | 1.1 % | 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 | 0.0027 ppm | 0.1175 ppm | 0.1560 ppm | 0.2005 ppm | 267.3589 ppm | 7.3445 ppm | 0.2737 ppm |
| Concentration per Run 1 | 0.0026 ppm | 0.1181 ppm | 0.1564 ppm | 0.2008 ppm | 268.1863 ppm | 7.4193 ppm | 0.2771 ppm |
| Concentration per Run 2 | 0.0027 ppm | 0.1173 ppm | 0.1557 ppm | 0.2001 ppm | 268.2638 ppm | 7.3143 ppm | 0.2717 ppm |
| Concentration per Run 3 | 0.0027 ppm | 0.1169 ppm | 0.1559 ppm | 0.2006 ppm | 265.6266 ppm | 7.2999 ppm | 0.2722 ppm |
| Concentration RSD | 2.3 % | 0.5 % | 0.2 % | 0.2 % | 0.6 % | 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 | 42.1291 ppm | 31.1011 [SIC 100] | 0.0048 ppm | 0.2353 ppm | 0.2070 ppm | 0.3600 ppm | 0.0036 ppm |
| Concentration per Run 1 | 42.2317 ppm | 31.2484 ppm | 0.0051 ppm | 0.2356 ppm | 0.2065 ppm | 0.3611 ppm | 0.0030 ppm |
| Concentration per Run 2 | 42.0707 ppm | 31.1859 ppm | 0.0048 ppm | 0.2375 ppm | 0.2075 ppm | 0.3595 ppm | 0.0038 ppm |
| Concentration per Run 3 | 42.0847 ppm | 30.8691 ppm | 0.0046 ppm | 0.2328 ppm | 0.2071 ppm | 0.3592 ppm | 0.0039 ppm |
| Concentration RSD | 0.2 % | 0.7 % | 5.7 % | 1.0 % | 0.2 % | 0.3 % | 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 | -0.0085 ppm | 2.5163 ppm | 0.0137 ppm | 0.0396 ppm | 0.1956 ppm | -0.0299 ppm | 0.1746 ppm |
| Concentration per Run 1 | -0.0089 ppm | 2.5152 ppm | 0.0140 ppm | 0.0398 ppm | 0.1961 ppm | -0.0309 ppm | 0.1757 ppm |
| Concentration per Run 2 | -0.0060 ppm | 2.5140 ppm | 0.0135 ppm | 0.0395 ppm | 0.1952 ppm | -0.0290 ppm | 0.1744 ppm |
| Concentration per Run 3 | -0.0108 ppm | 2.5197 ppm | 0.0136 ppm | 0.0395 ppm | 0.1953 ppm | -0.0296 ppm | 0.1736 ppm |
| Concentration RSD | 28.2 % | 0.1 % | 1.7 % | 0.4 % | 0.3 % | 3.2 % | 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 | 0.8099 ppm | 100.4380 % | 104.9002 % | 85.2379 % | 118.5785 % | 130.3425 % | 121.7779 % |
| Concentration per Run 1 | 0.8130 ppm | 100.4904 % | 104.9498 % | 85.0573 % | 119.1056 % | 130.8327 % | 121.9483 % |
| Concentration per Run 2 | 0.8083 ppm | 100.5978 % | 104.7011 % | 85.4327 % | 118.3289 % | 130.2068 % | 121.8069 % |
| Concentration per Run 3 | 0.8083 ppm | 100.2260 % | 105.0495 % | 85.2238 % | 118.3011 % | 129.9878 % | 121.5784 % |
| Concentration RSD | 0.3 % | 0.2 % | 0.2 % | 0.2 % | 0.4 % | 0.3 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473887-06D2 WG2010931
Analysis started at: 12/23/2024 8:16:32 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 | 0.0076 ppm | 183.2063 ppm | 0.1034 ppm | 0.0145 ppm | 1.8313 ppm | 0.0095 ppm | 125.8855 ppm |
| Concentration per Run 1 | 0.0080 ppm | 183.2224 ppm | 0.1042 ppm | 0.0151 ppm | 1.8247 ppm | 0.0095 ppm | 127.3895 ppm |
| Concentration per Run 2 | 0.0075 ppm | 183.9488 ppm | 0.1040 ppm | 0.0134 ppm | 1.8489 ppm | 0.0095 ppm | 124.6928 ppm |
| Concentration per Run 3 | 0.0073 ppm | 182.4475 ppm | 0.1020 ppm | 0.0150 ppm | 1.8204 ppm | 0.0095 ppm | 125.5742 ppm |
| Concentration RSD | 4.7 % | 0.4 % | 1.2 % | 6.6 % | 0.8 % | 0.4 % | 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 | 0.0046 ppm | 0.1694 ppm | 0.2387 ppm | 0.3934 ppm | 369.3754 ppm | 6.4823 ppm | 0.5272 ppm |
| Concentration per Run 1 | 0.0049 ppm | 0.1697 ppm | 0.2395 ppm | 0.3972 ppm | 372.6610 ppm | 6.4583 ppm | 0.5243 ppm |
| Concentration per Run 2 | 0.0047 ppm | 0.1686 ppm | 0.2396 ppm | 0.3914 ppm | 366.9619 ppm | 6.5124 ppm | 0.5327 ppm |
| Concentration per Run 3 | 0.0043 ppm | 0.1699 ppm | 0.2370 ppm | 0.3917 ppm | 368.5033 ppm | 6.4762 ppm | 0.5247 ppm |
| Concentration RSD | 6.2 % | 0.4 % | 0.6 % | 0.8 % | 0.8 % | 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 | 78.6839 ppm | 18.2563 ppm | 0.0023 ppm | 0.5103 ppm | 0.3274 ppm | 0.2952 ppm | 0.0020 ppm |
| Concentration per Run 1 | 78.8769 ppm | 18.4389 ppm | 0.0017 ppm | 0.5091 ppm | 0.3283 ppm | 0.2962 ppm | 0.0016 ppm |
| Concentration per Run 2 | 78.9320 ppm | 18.0982 ppm | 0.0025 ppm | 0.5070 ppm | 0.3292 ppm | 0.2949 ppm | 0.0036 ppm |
| Concentration per Run 3 | 78.2427 ppm | 18.2318 ppm | 0.0026 ppm | 0.5150 ppm | 0.3248 ppm | 0.2944 ppm | 0.0007 ppm |
| Concentration RSD | 0.5 % | 0.9 % | 22.1 % | 0.8 % | 0.7 % | 0.3 % | 73.5 % |

| | 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 | -0.0122 ppm | 3.4616 ppm | 0.0093 ppm | 0.4733 ppm | 0.3770 ppm | -0.0197 ppm | 0.1879 ppm |
| Concentration per Run 1 | -0.0129 ppm | 3.4872 ppm | 0.0099 ppm | 0.4727 ppm | 0.3788 ppm | -0.0196 ppm | 0.1875 ppm |
| Concentration per Run 2 | -0.0111 ppm | 3.4667 ppm | 0.0092 ppm | 0.4767 ppm | 0.3771 ppm | -0.0210 ppm | 0.1882 ppm |
| Concentration per Run 3 | -0.0127 ppm | 3.4308 ppm | 0.0087 ppm | 0.4706 ppm | 0.3749 ppm | -0.0185 ppm | 0.1880 ppm |
| Concentration RSD | 8.3 % | 0.8 % | 6.1 % | 0.7 % | 0.5 % | 6.1 % | 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 | 1.0996 ppm | 96.4408 % | 102.3302 % | 79.2127 % | 151.8809 % | 173.2818 % | 160.1745 % |
| Concentration per Run 1 | 1.1014 ppm | 95.6223 % | 101.3034 % | 78.8445 % | 150.6941 % | 172.5462 % | 159.9178 % |
| Concentration per Run 2 | 1.1039 ppm | 96.6071 % | 103.8221 % | 79.4776 % | 151.6368 % | 174.6564 % | 160.6373 % |
| Concentration per Run 3 | 1.0935 ppm | 97.0931 % | 101.8650 % | 79.3159 % | 153.3119 % | 172.6428 % | 159.9684 % |
| Concentration RSD | 0.5 % | 0.8 % | 1.3 % | 0.4 % | 0.9 % | 0.7 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473887-09D2 WG2010931
Analysis started at: 12/23/2024 8:20:58 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 | 0.0055 ppm | 162.5272 ppm | 0.0604 ppm | 0.0079 ppm | 1.7226 ppm | 0.0079 ppm | 12.4730 ppm |
| Concentration per Run 1 | 0.0058 ppm | 162.8934 ppm | 0.0594 ppm | 0.0082 ppm | 1.7193 ppm | 0.0079 ppm | 12.5227 ppm |
| Concentration per Run 2 | 0.0046 ppm | 161.1255 ppm | 0.0612 ppm | 0.0074 ppm | 1.7151 ppm | 0.0079 ppm | 12.4842 ppm |
| Concentration per Run 3 | 0.0061 ppm | 163.5628 ppm | 0.0606 ppm | 0.0082 ppm | 1.7335 ppm | 0.0078 ppm | 12.4123 ppm |
| Concentration RSD | 14.5 % | 0.8 % | 1.5 % | 5.5 % | 0.6 % | 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 | 0.0032 ppm | 0.1270 ppm | 0.1950 ppm | 0.2039 ppm | 293.7196 ppm | 5.5620 ppm | 0.3836 ppm |
| Concentration per Run 1 | 0.0033 ppm | 0.1266 ppm | 0.1944 ppm | 0.2050 ppm | 294.5629 ppm | 5.5407 ppm | 0.3814 ppm |
| Concentration per Run 2 | 0.0028 ppm | 0.1272 ppm | 0.1935 ppm | 0.2022 ppm | 294.2678 ppm | 5.5645 ppm | 0.3816 ppm |
| Concentration per Run 3 | 0.0036 ppm | 0.1272 ppm | 0.1970 ppm | 0.2044 ppm | 292.3280 ppm | 5.5807 ppm | 0.3878 ppm |
| Concentration RSD | 12.1 % | 0.3 % | 1.0 % | 0.7 % | 0.4 % | 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 | 62.8494 ppm | 9.4870 ppm | 0.0025 ppm | 0.3564 ppm | 0.2548 ppm | 0.2473 ppm | 0.0007 ppm |
| Concentration per Run 1 | 62.7008 ppm | 9.5117 ppm | 0.0026 ppm | 0.3598 ppm | 0.2528 ppm | 0.2466 ppm | 0.0000 ppm |
| Concentration per Run 2 | 62.6804 ppm | 9.5108 ppm | 0.0021 ppm | 0.3529 ppm | 0.2534 ppm | 0.2483 ppm | 0.0036 ppm |
| Concentration per Run 3 | 63.1670 ppm | 9.4384 ppm | 0.0029 ppm | 0.3567 ppm | 0.2582 ppm | 0.2469 ppm | -0.0014 ppm |
| Concentration RSD | 0.4 % | 0.4 % | 16.3 % | 1.0 % | 1.2 % | 0.4 % | 354.0 % |

| | 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 | -0.0051 ppm | 3.4591 ppm | 0.0063 ppm | 0.0606 ppm | 0.3372 ppm | -0.0094 ppm | 0.1541 ppm |
| Concentration per Run 1 | -0.0047 ppm | 3.4695 ppm | 0.0057 ppm | 0.0607 ppm | 0.3371 ppm | -0.0099 ppm | 0.1539 ppm |
| Concentration per Run 2 | -0.0061 ppm | 3.4174 ppm | 0.0060 ppm | 0.0603 ppm | 0.3361 ppm | -0.0097 ppm | 0.1556 ppm |
| Concentration per Run 3 | -0.0045 ppm | 3.4905 ppm | 0.0071 ppm | 0.0609 ppm | 0.3384 ppm | -0.0086 ppm | 0.1529 ppm |
| Concentration RSD | 17.0 % | 1.1 % | 11.9 % | 0.5 % | 0.3 % | 7.7 % | 0.9 % |

| | 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 | 0.7266 ppm | 98.0654 % | 104.1541 % | 84.8702 % | 114.9990 % | 131.0196 % | 122.3120 % |
| Concentration per Run 1 | 0.7213 ppm | 98.1929 % | 104.0040 % | 84.6738 % | 115.3768 % | 130.8694 % | 122.1553 % |
| Concentration per Run 2 | 0.7218 ppm | 99.2064 % | 103.4969 % | 84.8304 % | 116.4673 % | 130.4342 % | 122.5556 % |
| Concentration per Run 3 | 0.7367 ppm | 96.7969 % | 104.9614 % | 85.1064 % | 113.1529 % | 131.7552 % | 122.2252 % |
| Concentration RSD | 1.2 % | 1.2 % | 0.7 % | 0.3 % | 1.5 % | 0.5 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473887-13D2 WG2010931
Analysis started at: 12/23/2024 8:25:25 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 | 0.0057 ppm | 155.3765 ppm | 0.0565 ppm | 0.0092 ppm | 1.3752 ppm | 0.0079 ppm | 14.1140 ppm |
| Concentration per Run 1 | 0.0055 ppm | 155.1931 ppm | 0.0562 ppm | 0.0086 ppm | 1.3717 ppm | 0.0079 ppm | 14.1533 ppm |
| Concentration per Run 2 | 0.0060 ppm | 153.3509 ppm | 0.0565 ppm | 0.0099 ppm | 1.3624 ppm | 0.0078 ppm | 14.0351 ppm |
| Concentration per Run 3 | 0.0055 ppm | 157.5854 ppm | 0.0567 ppm | 0.0090 ppm | 1.3915 ppm | 0.0079 ppm | 14.1536 ppm |
| Concentration RSD | 5.5 % | 1.4 % | 0.4 % | 7.2 % | 1.1 % | 0.9 % | 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 | 0.0036 ppm | 0.1422 ppm | 0.2012 ppm | 0.3472 ppm | 306.9844 ppm | 5.5429 ppm | 0.3600 ppm |
| Concentration per Run 1 | 0.0035 ppm | 0.1431 ppm | 0.2012 ppm | 0.3481 ppm | 307.3690 ppm | 5.5187 ppm | 0.3575 ppm |
| Concentration per Run 2 | 0.0038 ppm | 0.1413 ppm | 0.2015 ppm | 0.3489 ppm | 305.1597 ppm | 5.5029 ppm | 0.3579 ppm |
| Concentration per Run 3 | 0.0035 ppm | 0.1423 ppm | 0.2008 ppm | 0.3447 ppm | 308.4246 ppm | 5.6071 ppm | 0.3645 ppm |
| Concentration RSD | 4.8 % | 0.6 % | 0.2 % | 0.6 % | 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 | 66.8329 ppm | 9.5964 ppm | 0.0041 ppm | 2.2923 ppm | 0.2714 ppm | 0.1753 ppm | 0.0028 ppm |
| Concentration per Run 1 | 66.8544 ppm | 9.6082 ppm | 0.0036 ppm | 2.2791 ppm | 0.2721 ppm | 0.1750 ppm | 0.0034 ppm |
| Concentration per Run 2 | 66.7841 ppm | 9.5590 ppm | 0.0041 ppm | 2.2684 ppm | 0.2720 ppm | 0.1761 ppm | 0.0014 ppm |
| Concentration per Run 3 | 66.8601 ppm | 9.6220 ppm | 0.0044 ppm | 2.3293 ppm | 0.2700 ppm | 0.1749 ppm | 0.0036 ppm |
| Concentration RSD | 0.1 % | 0.3 % | 10.3 % | 1.4 % | 0.4 % | 0.4 % | 44.4 % |

| | 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 | -0.0056 ppm | 2.4877 ppm | 0.0063 ppm | 0.0796 ppm | 0.3286 ppm | -0.0086 ppm | 0.1735 ppm |
| Concentration per Run 1 | -0.0056 ppm | 2.4931 ppm | 0.0072 ppm | 0.0796 ppm | 0.3298 ppm | -0.0085 ppm | 0.1745 ppm |
| Concentration per Run 2 | -0.0058 ppm | 2.4976 ppm | 0.0058 ppm | 0.0788 ppm | 0.3292 ppm | -0.0086 ppm | 0.1728 ppm |
| Concentration per Run 3 | -0.0053 ppm | 2.4723 ppm | 0.0059 ppm | 0.0805 ppm | 0.3267 ppm | -0.0087 ppm | 0.1733 ppm |
| Concentration RSD | 4.7 % | 0.5 % | 12.6 % | 1.1 % | 0.5 % | 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 | 0.8752 ppm | 99.0777 % | 105.6415 % | 85.7745 % | 125.4887 % | 142.1127 % | 133.5469 % |
| Concentration per Run 1 | 0.8761 ppm | 99.2307 % | 105.9885 % | 85.6376 % | 126.0518 % | 142.1163 % | 133.5142 % |
| Concentration per Run 2 | 0.8712 ppm | 98.8567 % | 105.5804 % | 85.5756 % | 125.1116 % | 141.3111 % | 133.4611 % |
| Concentration per Run 3 | 0.8784 ppm | 99.1456 % | 105.3557 % | 86.1104 % | 125.3026 % | 142.9108 % | 133.6654 % |
| Concentration RSD | 0.4 % | 0.2 % | 0.3 % | 0.3 % | 0.4 % | 0.6 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473887-16D2 WG2010931
Analysis started at: 12/23/2024 8:29:47 AM
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 | 0.0053 ppm | 130.8653 ppm | 0.0620 ppm | 0.0090 ppm | 1.1126 ppm | 0.0064 ppm | 12.3361 ppm |
| Concentration per Run 1 | 0.0053 ppm | 130.9220 ppm | 0.0626 ppm | 0.0090 ppm | 1.1134 ppm | 0.0064 ppm | 12.3661 ppm |
| Concentration per Run 2 | 0.0053 ppm | 131.3343 ppm | 0.0605 ppm | 0.0087 ppm | 1.1154 ppm | 0.0064 ppm | 12.3670 ppm |
| Concentration per Run 3 | 0.0051 ppm | 130.3394 ppm | 0.0629 ppm | 0.0094 ppm | 1.1088 ppm | 0.0063 ppm | 12.2753 ppm |
| Concentration RSD | 2.2 % | 0.4 % | 2.1 % | 4.0 % | 0.3 % | 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 | 0.0034 ppm | 0.1175 ppm | 0.1793 ppm | 0.3709 ppm | 284.9840 ppm | 7.2413 ppm | 0.2910 ppm |
| Concentration per Run 1 | 0.0032 ppm | 0.1181 ppm | 0.1805 ppm | 0.3736 ppm | 286.4136 ppm | 7.3255 ppm | 0.2940 ppm |
| Concentration per Run 2 | 0.0036 ppm | 0.1170 ppm | 0.1793 ppm | 0.3690 ppm | 285.3190 ppm | 7.2130 ppm | 0.2909 ppm |
| Concentration per Run 3 | 0.0034 ppm | 0.1175 ppm | 0.1780 ppm | 0.3702 ppm | 283.2195 ppm | 7.1854 ppm | 0.2882 ppm |
| Concentration RSD | 6.0 % | 0.5 % | 0.7 % | 0.6 % | 0.6 % | 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 | 56.3214 ppm | 6.9998 ppm | 0.0014 ppm | 1.0531 ppm | 0.2439 ppm | 0.1436 ppm | 0.0031 ppm |
| Concentration per Run 1 | 56.5444 ppm | 7.0293 ppm | 0.0010 ppm | 1.0619 ppm | 0.2444 ppm | 0.1425 ppm | 0.0017 ppm |
| Concentration per Run 2 | 56.4833 ppm | 7.0185 ppm | 0.0018 ppm | 1.0542 ppm | 0.2456 ppm | 0.1448 ppm | 0.0046 ppm |
| Concentration per Run 3 | 55.9365 ppm | 6.9516 ppm | 0.0013 ppm | 1.0432 ppm | 0.2419 ppm | 0.1434 ppm | 0.0029 ppm |
| Concentration RSD | 0.6 % | 0.6 % | 28.9 % | 0.9 % | 0.8 % | 0.8 % | 48.1 % |

| | 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 | -0.0035 ppm | 2.3983 ppm | 0.0057 ppm | 0.0965 ppm | 0.4862 ppm | -0.0049 ppm | 0.1816 ppm |
| Concentration per Run 1 | -0.0028 ppm | 2.4142 ppm | 0.0056 ppm | 0.0968 ppm | 0.4875 ppm | -0.0036 ppm | 0.1821 ppm |
| Concentration per Run 2 | -0.0041 ppm | 2.3964 ppm | 0.0062 ppm | 0.0968 ppm | 0.4872 ppm | -0.0059 ppm | 0.1811 ppm |
| Concentration per Run 3 | -0.0035 ppm | 2.3843 ppm | 0.0052 ppm | 0.0959 ppm | 0.4840 ppm | -0.0051 ppm | 0.1816 ppm |
| Concentration RSD | 18.9 % | 0.6 % | 8.3 % | 0.6 % | 0.4 % | 23.7 % | 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 | 0.9496 ppm | 99.8253 % | 105.4346 % | 86.6696 % | 121.7222 % | 136.5725 % | 128.7325 % |
| Concentration per Run 1 | 0.9559 ppm | 99.5916 % | 105.0996 % | 86.7438 % | 121.6928 % | 136.2991 % | 128.6759 % |
| Concentration per Run 2 | 0.9538 ppm | 99.5258 % | 105.5397 % | 86.5551 % | 120.9773 % | 136.9899 % | 128.5880 % |
| Concentration per Run 3 | 0.9393 ppm | 100.3585 % | 105.6646 % | 86.7099 % | 122.4965 % | 136.4284 % | 128.9335 % |
| Concentration RSD | 1.0 % | 0.5 % | 0.3 % | 0.1 % | 0.6 % | 0.3 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 8:34:10 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 | 0.4788 ppm | 0.4752 ppm | 0.4612 ppm | 0.4503 ppm | 0.4854 ppm | 0.4918 ppm | 0.4898 ppm |
| Concentration per Run 1 | 0.4800 ppm | 0.4772 ppm | 0.4622 ppm | 0.4530 ppm | 0.4870 ppm | 0.4935 ppm | 0.4906 ppm |
| Concentration per Run 2 | 0.4782 ppm | 0.4744 ppm | 0.4613 ppm | 0.4469 ppm | 0.4847 ppm | 0.4910 ppm | 0.4900 ppm |
| Concentration per Run 3 | 0.4782 ppm | 0.4740 ppm | 0.4602 ppm | 0.4509 ppm | 0.4845 ppm | 0.4910 ppm | 0.4889 ppm |
| Recovery Percentage 1 | 95.753 % | 95.042 % | 92.244 % | 90.054 % | 97.084 % | 98.368 % | 97.960 % |
| Concentration RSD | 0.2 % | 0.4 % | 0.2 % | 0.7 % | 0.3 % | 0.3 % | 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 | 0.4830 ppm | 0.4931 ppm | 0.4749 ppm | 0.4742 ppm | 0.5181 ppm | 5.1994 ppm | 0.4975 ppm |
| Concentration per Run 1 | 0.4833 ppm | 0.4939 ppm | 0.4770 ppm | 0.4768 ppm | 0.5219 ppm | 5.1901 ppm | 0.4995 ppm |
| Concentration per Run 2 | 0.4817 ppm | 0.4912 ppm | 0.4725 ppm | 0.4725 ppm | 0.5162 ppm | 5.2236 ppm | 0.5001 ppm |
| Concentration per Run 3 | 0.4841 ppm | 0.4942 ppm | 0.4753 ppm | 0.4733 ppm | 0.5162 ppm | 5.1846 ppm | 0.4929 ppm |
| Recovery Percentage 1 | 96.606 % | 98.620 % | 94.988 % | 94.838 % | 103.627 % | 103.989 % | 99.497 % |
| Concentration RSD | 0.3 % | 0.3 % | 0.5 % | 0.5 % | 0.6 % | 0.4 % | 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 | 0.4843 ppm | 0.4798 ppm | 0.4793 ppm | 10.1676 ppm | 0.4897 ppm | 0.4781 ppm | 0.4844 ppm |
| Concentration per Run 1 | 0.4846 ppm | 0.4811 ppm | 0.4779 ppm | 10.1522 ppm | 0.4935 ppm | 0.4785 ppm | 0.4865 ppm |
| Concentration per Run 2 | 0.4850 ppm | 0.4786 ppm | 0.4772 ppm | 10.1889 ppm | 0.4855 ppm | 0.4779 ppm | 0.4819 ppm |
| Concentration per Run 3 | 0.4834 ppm | 0.4796 ppm | 0.4830 ppm | 10.1619 ppm | 0.4901 ppm | 0.4779 ppm | 0.4846 ppm |
| Recovery Percentage 1 | 96.865 % | 95.953 % | 95.868 % | 101.676 % | 97.938 % | 95.616 % | 96.873 % |
| Concentration RSD | 0.2 % | 0.3 % | 0.7 % | 0.2 % | 0.8 % | 0.1 % | 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 | 0.4631 ppm | 5.1286 ppm | 0.4984 ppm | 0.5113 ppm | 0.4784 ppm | 0.4813 ppm | 0.4833 ppm |
| Concentration per Run 1 | 0.4627 ppm | 5.1580 ppm | 0.5022 ppm | 0.5136 ppm | 0.4801 ppm | 0.4813 ppm | 0.4837 ppm |
| Concentration per Run 2 | 0.4644 ppm | 5.0959 ppm | 0.4917 ppm | 0.5102 ppm | 0.4763 ppm | 0.4800 ppm | 0.4837 ppm |
| Concentration per Run 3 | 0.4621 ppm | 5.1321 ppm | 0.5012 ppm | 0.5102 ppm | 0.4787 ppm | 0.4825 ppm | 0.4824 ppm |
| Recovery Percentage 1 | 92.614 % | 97.688 % | 99.673 % | 102.266 % | 95.673 % | 96.254 % | 96.651 % |
| Concentration RSD | 0.3 % | 0.6 % | 1.2 % | 0.4 % | 0.4 % | 0.3 % | 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 | 0.4822 ppm | 100.0789 % | 100.0709 % | 96.5123 % | 94.8762 % | 98.4401 % | 97.5284 % |
| Concentration per Run 1 | 0.4843 ppm | 99.6116 % | 99.3269 % | 96.8385 % | 94.5996 % | 97.9459 % | 97.7933 % |
| Concentration per Run 2 | 0.4775 ppm | 100.4549 % | 100.8657 % | 96.2940 % | 95.1870 % | 98.8980 % | 97.3507 % |
| Concentration per Run 3 | 0.4848 ppm | 100.1703 % | 100.0200 % | 96.4045 % | 94.8421 % | 98.4764 % | 97.4411 % |
| Recovery Percentage 1 | 96.437 % | | | | | | |
| Concentration RSD | 0.8 % | 0.4 % | 0.8 % | 0.3 % | 0.3 % | 0.5 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 8:38:34 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 | 0.0002 ppm | -0.0010 ppm | 0.0007 ppm | 0.0007 ppm | 0.0001 ppm | 0.0000 ppm | 0.0028 ppm |
| Concentration per Run 1 | 0.0002 ppm | -0.0048 ppm | 0.0001 ppm | 0.0003 ppm | 0.0001 ppm | 0.0000 ppm | 0.0031 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | 0.0012 ppm | 0.0007 ppm | 0.0001 ppm | 0.0000 ppm | 0.0008 ppm |
| Concentration per Run 3 | 0.0004 ppm | 0.0018 ppm | 0.0007 ppm | 0.0011 ppm | 0.0001 ppm | 0.0000 ppm | 0.0044 ppm |
| Recovery Percentage 1 | 3.684 % | -1.000 % | 13.835 % | 2.242 % | 0.692 % | 0.317 % | 2.765 % |
| Concentration RSD | 86.4 % | 336.8 % | 79.4 % | 62.0 % | 14.6 % | 60.2 % | 65.3 % |

| | 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 | -0.0001 ppm | -0.0001 ppm | 0.0028 ppm | -0.0033 ppm | -0.0005 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0003 ppm | -0.0001 ppm | -0.0001 ppm | 0.0033 ppm | -0.0010 ppm | -0.0008 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0001 ppm | -0.0004 ppm | -0.0001 ppm | 0.0025 ppm | -0.0073 ppm | -0.0005 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0003 ppm | 0.0002 ppm | 0.0000 ppm | 0.0026 ppm | -0.0015 ppm | -0.0004 ppm |
| Recovery Percentage 1 | 0.324 % | -0.001 % | -1.063 % | -0.512 % | 5.607 % | -0.131 % | -5.415 % |
| Concentration RSD | 313.1 % | 255,427.7 % | 245.4 % | 83.2 % | 16.2 % | 107.3 % | 37.2 % |

| | 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 | 0.0000 ppm | 0.0018 ppm | -0.0007 ppm | 0.0002 ppm | -0.0005 ppm | 0.0018 ppm |
| Concentration per Run 1 | 0.0011 ppm | 0.0001 ppm | 0.0019 ppm | -0.0009 ppm | 0.0003 ppm | -0.0006 ppm | 0.0032 ppm |
| Concentration per Run 2 | 0.0005 ppm | 0.0000 ppm | 0.0018 ppm | -0.0017 ppm | 0.0004 ppm | -0.0005 ppm | 0.0010 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0000 ppm | 0.0016 ppm | 0.0004 ppm | -0.0001 ppm | -0.0003 ppm | 0.0011 ppm |
| Recovery Percentage 1 | 0.465 % | 0.290 % | 3.518 % | -0.037 % | 0.760 % | -4.808 % | 3.605 % |
| Concentration RSD | 151.4 % | 158.0 % | 9.3 % | 146.2 % | 136.9 % | 25.4 % | 69.0 % |

| | 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 | -0.0003 ppm | -0.0003 ppm | 0.0000 ppm | 0.0000 ppm | 0.0002 ppm | 0.0000 ppm |
| Concentration per Run 1 | -0.0038 ppm | -0.0007 ppm | -0.0002 ppm | 0.0000 ppm | 0.0001 ppm | 0.0003 ppm | 0.0000 ppm |
| Concentration per Run 2 | -0.0024 ppm | 0.0006 ppm | -0.0002 ppm | 0.0000 ppm | 0.0001 ppm | 0.0004 ppm | 0.0001 ppm |
| Concentration per Run 3 | -0.0020 ppm | -0.0008 ppm | -0.0006 ppm | 0.0000 ppm | -0.0001 ppm | 0.0000 ppm | 0.0000 ppm |
| Recovery Percentage 1 | -27.327 % | -0.060 % | -0.684 % | 0.100 % | 0.304 % | 1.105 % | 0.445 % |
| Concentration RSD | 35.4 % | 271.4 % | 77.0 % | 311.7 % | 328.8 % | 94.8 % | 198.1 % |

| | 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 | 0.0001 ppm | 97.6563 % | 98.7823 % | 97.2598 % | 96.3341 % | 99.3027 % | 98.6610 % |
| Concentration per Run 1 | 0.0001 ppm | 97.0484 % | 98.6510 % | 96.8372 % | 96.0259 % | 99.0200 % | 98.5438 % |
| Concentration per Run 2 | 0.0002 ppm | 97.6278 % | 98.8720 % | 97.1169 % | 96.3600 % | 99.5589 % | 98.7538 % |
| Concentration per Run 3 | 0.0000 ppm | 98.2926 % | 98.8241 % | 97.8252 % | 96.6165 % | 99.3293 % | 98.6853 % |
| Recovery Percentage 1 | 2.328 % | | | | | | |
| Concentration RSD | 68.5 % | 0.6 % | 0.1 % | 0.5 % | 0.3 % | 0.3 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473931-01D2 WG2010931
Analysis started at: 12/23/2024 8:48:05 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 | 0.0022 ppm | 101.4117 ppm | 0.1124 ppm | 0.0168 ppm | 0.7010 ppm | 0.0070 ppm | 195.1475 ppm |
| Concentration per Run 1 | 0.0020 ppm | 101.1879 ppm | 0.1135 ppm | 0.0177 ppm | 0.7026 ppm | 0.0070 ppm | 195.2399 ppm |
| Concentration per Run 2 | 0.0022 ppm | 101.7800 ppm | 0.1129 ppm | 0.0167 ppm | 0.7013 ppm | 0.0070 ppm | 196.2568 ppm |
| Concentration per Run 3 | 0.0023 ppm | 101.2672 ppm | 0.1109 ppm | 0.0161 ppm | 0.6990 ppm | 0.0070 ppm | 193.9457 ppm |
| Concentration RSD | 5.5 % | 0.3 % | 1.2 % | 4.8 % | 0.3 % | 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 | 0.0017 ppm | 0.0449 ppm | 0.1173 ppm | 0.3136 ppm | 137.5802 ppm | 5.5332 ppm | 0.0991 ppm |
| Concentration per Run 1 | 0.0016 ppm | 0.0454 ppm | 0.1179 ppm | 0.3148 ppm | 137.8021 ppm | 5.5529 ppm | 0.0992 ppm |
| Concentration per Run 2 | 0.0018 ppm | 0.0442 ppm | 0.1169 ppm | 0.3132 ppm | 138.0101 ppm | 5.5173 ppm | 0.0991 ppm |
| Concentration per Run 3 | 0.0018 ppm | 0.0450 ppm | 0.1170 ppm | 0.3127 ppm | 136.9282 ppm | 5.5295 ppm | 0.0990 ppm |
| Concentration RSD | 6.6 % | 1.4 % | 0.5 % | 0.3 % | 0.4 % | 0.3 % | 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 | 100.1315 ppm | 2.7178 ppm | 0.0105 ppm | 1.8017 ppm | 0.1290 ppm | 2.1524 ppm | 0.0207 ppm |
| Concentration per Run 1 | 100.4236 ppm | 2.7200 ppm | 0.0104 ppm | 1.7898 ppm | 0.1292 ppm | 2.1498 ppm | 0.0217 ppm |
| Concentration per Run 2 | 100.0441 ppm | 2.7229 ppm | 0.0102 ppm | 1.8056 ppm | 0.1291 ppm | 2.1588 ppm | 0.0224 ppm |
| Concentration per Run 3 | 99.9267 ppm | 2.7104 ppm | 0.0109 ppm | 1.8099 ppm | 0.1287 ppm | 2.1485 ppm | 0.0180 ppm |
| Concentration RSD | 0.3 % | 0.2 % | 3.2 % | 0.6 % | 0.2 % | 0.3 % | 11.4 % |

| | 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 | -0.0009 ppm | 3.3451 ppm | 0.0264 ppm | 0.3841 ppm | 1.1170 ppm | 0.0029 ppm | 0.1899 ppm |
| Concentration per Run 1 | -0.0009 ppm | 3.3570 ppm | 0.0269 ppm | 0.3852 ppm | 1.1197 ppm | 0.0035 ppm | 0.1904 ppm |
| Concentration per Run 2 | -0.0003 ppm | 3.3429 ppm | 0.0258 ppm | 0.3835 ppm | 1.1183 ppm | 0.0033 ppm | 0.1900 ppm |
| Concentration per Run 3 | -0.0014 ppm | 3.3352 ppm | 0.0265 ppm | 0.3836 ppm | 1.1130 ppm | 0.0019 ppm | 0.1894 ppm |
| Concentration RSD | 59.4 % | 0.3 % | 2.1 % | 0.3 % | 0.3 % | 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 | 0.7911 ppm | 95.1979 % | 99.7981 % | 79.8113 % | 137.2400 % | 151.1702 % | 139.1321 % |
| Concentration per Run 1 | 0.7927 ppm | 95.0994 % | 99.5259 % | 79.8724 % | 137.2296 % | 150.3244 % | 139.1502 % |
| Concentration per Run 2 | 0.7919 ppm | 95.4198 % | 99.2078 % | 79.4571 % | 137.8785 % | 150.6587 % | 138.8321 % |
| Concentration per Run 3 | 0.7887 ppm | 95.0746 % | 100.6605 % | 80.1046 % | 136.6118 % | 152.5274 % | 139.4142 % |
| Concentration RSD | 0.3 % | 0.2 % | 0.8 % | 0.4 % | 0.5 % | 0.8 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473931-02D2 WG2010931
Analysis started at: 12/23/2024 8:52:34 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 | 0.0015 ppm | 75.7410 ppm | 0.1286 ppm | 0.0205 ppm | 0.5951 ppm | 0.0059 ppm | 589.9304 ppm |
| Concentration per Run 1 | 0.0015 ppm | 75.9866 ppm | 0.1284 ppm | 0.0203 ppm | 0.5981 ppm | 0.0059 ppm | 593.1567 ppm |
| Concentration per Run 2 | 0.0014 ppm | 75.5437 ppm | 0.1288 ppm | 0.0215 ppm | 0.5940 ppm | 0.0059 ppm | 587.1892 ppm |
| Concentration per Run 3 | 0.0015 ppm | 75.6926 ppm | 0.1287 ppm | 0.0197 ppm | 0.5933 ppm | 0.0058 ppm | 589.4454 ppm |
| Concentration RSD | 5.0 % | 0.3 % | 0.2 % | 4.3 % | 0.4 % | 0.9 % | 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 | -0.0015 ppm | 0.0406 ppm | 0.1009 ppm | 0.3878 ppm | 112.0711 ppm | 4.7404 ppm | 0.0970 ppm |
| Concentration per Run 1 | -0.0015 ppm | 0.0404 ppm | 0.1009 ppm | 0.3902 ppm | 113.0326 ppm | 4.7853 ppm | 0.0992 ppm |
| Concentration per Run 2 | -0.0016 ppm | 0.0402 ppm | 0.1011 ppm | 0.3874 ppm | 111.5811 ppm | 4.7304 ppm | 0.0937 ppm |
| Concentration per Run 3 | -0.0016 ppm | 0.0412 ppm | 0.1005 ppm | 0.3859 ppm | 111.5996 ppm | 4.7055 ppm | 0.0980 ppm |
| Concentration RSD | 3.7 % | 1.3 % | 0.3 % | 0.6 % | 0.7 % | 0.9 % | 3.0 % |

| | 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 | 339.1896 ppm | 2.4652 ppm | 0.0098 ppm | 2.0993 ppm | 0.1155 ppm | 2.3642 ppm | 0.0128 ppm |
| Concentration per Run 1 | 339.9044 ppm | 2.4842 ppm | 0.0099 ppm | 2.1146 ppm | 0.1161 ppm | 2.3831 ppm | 0.0117 ppm |
| Concentration per Run 2 | 338.6271 ppm | 2.4515 ppm | 0.0093 ppm | 2.0943 ppm | 0.1148 ppm | 2.3567 ppm | 0.0169 ppm |
| Concentration per Run 3 | 339.0371 ppm | 2.4600 ppm | 0.0101 ppm | 2.0888 ppm | 0.1156 ppm | 2.3528 ppm | 0.0098 ppm |
| Concentration RSD | 0.2 % | 0.7 % | 4.4 % | 0.6 % | 0.5 % | 0.7 % | 28.7 % |

| | 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 | -0.0013 ppm | 3.5296 ppm | 0.0229 ppm | 0.5882 ppm | 1.0606 ppm | 0.0023 ppm | 0.1661 ppm |
| Concentration per Run 1 | -0.0001 ppm | 3.5490 ppm | 0.0236 ppm | 0.5913 ppm | 1.0658 ppm | 0.0032 ppm | 0.1667 ppm |
| Concentration per Run 2 | -0.0009 ppm | 3.5214 ppm | 0.0226 ppm | 0.5865 ppm | 1.0566 ppm | 0.0018 ppm | 0.1663 ppm |
| Concentration per Run 3 | -0.0029 ppm | 3.5185 ppm | 0.0226 ppm | 0.5867 ppm | 1.0594 ppm | 0.0020 ppm | 0.1654 ppm |
| Concentration RSD | 115.9 % | 0.5 % | 2.4 % | 0.5 % | 0.4 % | 34.0 % | 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 | 0.5815 ppm | 87.6417 % | 95.2823 % | 70.8365 % | 116.0855 % | 131.3855 % | 116.5832 % |
| Concentration per Run 1 | 0.5831 ppm | 87.5316 % | 94.9653 % | 70.2094 % | 116.1928 % | 131.7280 % | 116.3821 % |
| Concentration per Run 2 | 0.5791 ppm | 87.9116 % | 95.7483 % | 71.2342 % | 116.4175 % | 131.4069 % | 116.8422 % |
| Concentration per Run 3 | 0.5824 ppm | 87.4820 % | 95.1333 % | 71.0659 % | 115.6460 % | 131.0216 % | 116.5252 % |
| Concentration RSD | 0.4 % | 0.3 % | 0.4 % | 0.8 % | 0.3 % | 0.3 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473931-03D2 WG2010931
Analysis started at: 12/23/2024 8:56:58 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 | 0.0019 ppm | 42.6010 ppm | 0.0254 ppm | 0.0129 ppm | 0.4899 ppm | 0.0040 ppm | 8.8741 ppm |
| Concentration per Run 1 | 0.0023 ppm | 42.4701 ppm | 0.0262 ppm | 0.0129 ppm | 0.4880 ppm | 0.0039 ppm | 8.8652 ppm |
| Concentration per Run 2 | 0.0021 ppm | 42.7958 ppm | 0.0242 ppm | 0.0129 ppm | 0.4922 ppm | 0.0040 ppm | 8.9036 ppm |
| Concentration per Run 3 | 0.0012 ppm | 42.5372 ppm | 0.0257 ppm | 0.0130 ppm | 0.4896 ppm | 0.0040 ppm | 8.8535 ppm |
| Concentration RSD | 32.3 % | 0.4 % | 3.9 % | 0.7 % | 0.4 % | 1.1 % | 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 | 0.0013 ppm | 0.0928 ppm | 0.1538 ppm | 0.1902 ppm | 144.2676 ppm | 8.5848 ppm | 0.0921 ppm |
| Concentration per Run 1 | 0.0016 ppm | 0.0932 ppm | 0.1546 ppm | 0.1927 ppm | 144.1164 ppm | 8.5191 ppm | 0.0916 ppm |
| Concentration per Run 2 | 0.0016 ppm | 0.0922 ppm | 0.1535 ppm | 0.1910 ppm | 144.3180 ppm | 8.6470 ppm | 0.0928 ppm |
| Concentration per Run 3 | 0.0008 ppm | 0.0930 ppm | 0.1533 ppm | 0.1870 ppm | 144.3685 ppm | 8.5884 ppm | 0.0920 ppm |
| Concentration RSD | 34.6 % | 0.6 % | 0.5 % | 1.5 % | 0.1 % | 0.7 % | 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 | 24.1133 ppm | 4.1994 ppm | 0.0036 ppm | 0.9680 ppm | 0.6715 ppm | 0.0574 ppm | 0.0019 ppm |
| Concentration per Run 1 | 24.2199 ppm | 4.1958 ppm | 0.0038 ppm | 0.9647 ppm | 0.6739 ppm | 0.0583 ppm | 0.0016 ppm |
| Concentration per Run 2 | 24.0559 ppm | 4.2143 ppm | 0.0036 ppm | 0.9740 ppm | 0.6687 ppm | 0.0577 ppm | 0.0019 ppm |
| Concentration per Run 3 | 24.0641 ppm | 4.1881 ppm | 0.0034 ppm | 0.9655 ppm | 0.6719 ppm | 0.0562 ppm | 0.0022 ppm |
| Concentration RSD | 0.4 % | 0.3 % | 4.8 % | 0.5 % | 0.4 % | 1.9 % | 17.0 % |

| | 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 | -0.0016 ppm | 1.9340 ppm | 0.0027 ppm | 0.0439 ppm | 2.9407 ppm | -0.0009 ppm | 0.1842 ppm |
| Concentration per Run 1 | -0.0027 ppm | 1.9619 ppm | 0.0029 ppm | 0.0437 ppm | 2.9682 ppm | -0.0004 ppm | 0.1831 ppm |
| Concentration per Run 2 | -0.0016 ppm | 1.9425 ppm | 0.0024 ppm | 0.0439 ppm | 2.9355 ppm | -0.0012 ppm | 0.1825 ppm |
| Concentration per Run 3 | -0.0005 ppm | 1.8975 ppm | 0.0028 ppm | 0.0440 ppm | 2.9184 ppm | -0.0011 ppm | 0.1870 ppm |
| Concentration RSD | 69.8 % | 1.7 % | 9.8 % | 0.3 % | 0.9 % | 47.6 % | 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 | 0.3204 ppm | 102.1422 % | 104.3066 % | 88.5718 % | 111.0958 % | 119.6720 % | 114.3008 % |
| Concentration per Run 1 | 0.3212 ppm | 101.6741 % | 104.6791 % | 88.4914 % | 110.3441 % | 119.9026 % | 114.2913 % |
| Concentration per Run 2 | 0.3193 ppm | 101.9615 % | 104.1139 % | 88.6507 % | 109.5668 % | 120.0295 % | 114.5255 % |
| Concentration per Run 3 | 0.3206 ppm | 102.7909 % | 104.1268 % | 88.5733 % | 113.3764 % | 119.0839 % | 114.0857 % |
| Concentration RSD | 0.3 % | 0.6 % | 0.3 % | 0.1 % | 1.8 % | 0.4 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473931-04D2 WG2010931
Analysis started at: 12/23/2024 9:01:21 AM
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 | 0.0017 ppm | 48.5822 ppm | 0.0206 ppm | 0.0218 ppm | 0.3359 ppm | 0.0042 ppm | 14.1793 ppm |
| Concentration per Run 1 | 0.0016 ppm | 48.6404 ppm | 0.0219 ppm | 0.0215 ppm | 0.3369 ppm | 0.0042 ppm | 14.2782 ppm |
| Concentration per Run 2 | 0.0017 ppm | 48.3946 ppm | 0.0204 ppm | 0.0215 ppm | 0.3340 ppm | 0.0042 ppm | 14.1771 ppm |
| Concentration per Run 3 | 0.0019 ppm | 48.7116 ppm | 0.0195 ppm | 0.0224 ppm | 0.3366 ppm | 0.0042 ppm | 14.0826 ppm |
| Concentration RSD | 9.9 % | 0.3 % | 5.9 % | 2.5 % | 0.5 % | 0.7 % | 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 | 0.0019 ppm | 0.0805 ppm | 0.1839 ppm | 0.1829 ppm | 122.1792 ppm | 15.0386 ppm | 0.1239 ppm |
| Concentration per Run 1 | 0.0019 ppm | 0.0800 ppm | 0.1845 ppm | 0.1836 ppm | 122.7729 ppm | 14.9531 ppm | 0.1241 ppm |
| Concentration per Run 2 | 0.0019 ppm | 0.0806 ppm | 0.1830 ppm | 0.1835 ppm | 122.2090 ppm | 15.0095 ppm | 0.1232 ppm |
| Concentration per Run 3 | 0.0018 ppm | 0.0809 ppm | 0.1842 ppm | 0.1815 ppm | 121.5558 ppm | 15.1531 ppm | 0.1245 ppm |
| Concentration RSD | 2.1 % | 0.5 % | 0.4 % | 0.6 % | 0.5 % | 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 | 90.0756 ppm | 3.2747 ppm | 0.0014 ppm | 2.2024 ppm | 0.8397 ppm | 0.1479 ppm | 0.0016 ppm |
| Concentration per Run 1 | 90.5072 ppm | 3.2853 ppm | 0.0016 ppm | 2.2039 ppm | 0.8415 ppm | 0.1485 ppm | 0.0014 ppm |
| Concentration per Run 2 | 89.7334 ppm | 3.2792 ppm | 0.0015 ppm | 2.1881 ppm | 0.8365 ppm | 0.1483 ppm | 0.0029 ppm |
| Concentration per Run 3 | 89.9860 ppm | 3.2595 ppm | 0.0012 ppm | 2.2151 ppm | 0.8413 ppm | 0.1469 ppm | 0.0004 ppm |
| Concentration RSD | 0.4 % | 0.4 % | 13.6 % | 0.6 % | 0.3 % | 0.6 % | 79.1 % |

| | 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 | -0.0027 ppm | 2.2981 ppm | 0.0041 ppm | 0.0511 ppm | 3.8133 ppm | 0.0014 ppm | 0.2063 ppm |
| Concentration per Run 1 | -0.0020 ppm | 2.3011 ppm | 0.0048 ppm | 0.0513 ppm | 3.8285 ppm | 0.0015 ppm | 0.2059 ppm |
| Concentration per Run 2 | -0.0036 ppm | 2.3005 ppm | 0.0038 ppm | 0.0508 ppm | 3.8008 ppm | 0.0014 ppm | 0.2064 ppm |
| Concentration per Run 3 | -0.0024 ppm | 2.2927 ppm | 0.0038 ppm | 0.0512 ppm | 3.8105 ppm | 0.0014 ppm | 0.2067 ppm |
| Concentration RSD | 31.4 % | 0.2 % | 14.4 % | 0.5 % | 0.4 % | 4.2 % | 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 | 0.4437 ppm | 98.8895 % | 102.9466 % | 83.8692 % | 109.4068 % | 120.6516 % | 112.9615 % |
| Concentration per Run 1 | 0.4448 ppm | 98.5872 % | 102.6591 % | 83.9448 % | 108.3707 % | 120.7594 % | 113.2784 % |
| Concentration per Run 2 | 0.4407 ppm | 99.1485 % | 102.9960 % | 84.0945 % | 109.9052 % | 120.4045 % | 113.1608 % |
| Concentration per Run 3 | 0.4456 ppm | 98.9329 % | 103.1847 % | 83.5683 % | 109.9445 % | 120.7910 % | 112.4453 % |
| Concentration RSD | 0.6 % | 0.3 % | 0.3 % | 0.3 % | 0.8 % | 0.2 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473931-10D2 WG2010931
Analysis started at: 12/23/2024 9:05:46 AM
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 | 0.0010 ppm | 37.1709 ppm | 0.0201 ppm | 0.0190 ppm | 0.2333 ppm | 0.0030 ppm | 9.7784 ppm |
| Concentration per Run 1 | 0.0011 ppm | 37.3984 ppm | 0.0203 ppm | 0.0193 ppm | 0.2336 ppm | 0.0030 ppm | 9.8641 ppm |
| Concentration per Run 2 | 0.0011 ppm | 37.2837 ppm | 0.0201 ppm | 0.0188 ppm | 0.2323 ppm | 0.0030 ppm | 9.8079 ppm |
| Concentration per Run 3 | 0.0010 ppm | 36.8307 ppm | 0.0199 ppm | 0.0190 ppm | 0.2341 ppm | 0.0030 ppm | 9.6633 ppm |
| Concentration RSD | 7.2 % | 0.8 % | 1.0 % | 1.4 % | 0.4 % | 0.4 % | 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 | 0.0012 ppm | 0.0694 ppm | 0.1172 ppm | 0.1494 ppm | 101.1382 ppm | 9.4456 ppm | 0.0900 ppm |
| Concentration per Run 1 | 0.0012 ppm | 0.0697 ppm | 0.1181 ppm | 0.1499 ppm | 101.5958 ppm | 9.4084 ppm | 0.0906 ppm |
| Concentration per Run 2 | 0.0011 ppm | 0.0699 ppm | 0.1174 ppm | 0.1496 ppm | 101.3607 ppm | 9.4728 ppm | 0.0903 ppm |
| Concentration per Run 3 | 0.0012 ppm | 0.0686 ppm | 0.1161 ppm | 0.1487 ppm | 100.4581 ppm | 9.4556 ppm | 0.0891 ppm |
| Concentration RSD | 4.1 % | 1.0 % | 0.8 % | 0.4 % | 0.6 % | 0.4 % | 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 | 85.6201 ppm | 2.5679 ppm | 0.0012 ppm | 1.5155 ppm | 0.7320 ppm | 0.0869 ppm | 0.0023 ppm |
| Concentration per Run 1 | 86.2381 ppm | 2.5861 ppm | 0.0015 ppm | 1.5149 ppm | 0.7357 ppm | 0.0875 ppm | 0.0019 ppm |
| Concentration per Run 2 | 85.5139 ppm | 2.5687 ppm | 0.0012 ppm | 1.5248 ppm | 0.7340 ppm | 0.0875 ppm | 0.0024 ppm |
| Concentration per Run 3 | 85.1082 ppm | 2.5489 ppm | 0.0008 ppm | 1.5067 ppm | 0.7263 ppm | 0.0857 ppm | 0.0027 ppm |
| Concentration RSD | 0.7 % | 0.7 % | 26.9 % | 0.6 % | 0.7 % | 1.2 % | 17.2 % |

| | 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 | 2.1258 ppm | 0.0021 ppm | 0.0401 ppm | 2.2641 ppm | 0.0004 ppm | 0.1766 ppm |
| Concentration per Run 1 | -0.0024 ppm | 2.1412 ppm | 0.0014 ppm | 0.0402 ppm | 2.2764 ppm | -0.0006 ppm | 0.1773 ppm |
| Concentration per Run 2 | -0.0042 ppm | 2.1231 ppm | 0.0016 ppm | 0.0402 ppm | 2.2589 ppm | 0.0011 ppm | 0.1770 ppm |
| Concentration per Run 3 | -0.0001 ppm | 2.1132 ppm | 0.0032 ppm | 0.0398 ppm | 2.2569 ppm | 0.0009 ppm | 0.1755 ppm |
| Concentration RSD | 93.6 % | 0.7 % | 48.1 % | 0.6 % | 0.5 % | 219.2 % | 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 | 0.4223 ppm | 99.3671 % | 102.5007 % | 86.1374 % | 107.1499 % | 115.0985 % | 107.6356 % |
| Concentration per Run 1 | 0.4235 ppm | 99.3217 % | 102.2710 % | 85.9454 % | 107.0275 % | 114.9203 % | 107.8152 % |
| Concentration per Run 2 | 0.4237 ppm | 99.0650 % | 102.3277 % | 86.1515 % | 107.0444 % | 114.7392 % | 107.5261 % |
| Concentration per Run 3 | 0.4197 ppm | 99.7147 % | 102.9036 % | 86.3154 % | 107.3776 % | 115.6359 % | 107.5654 % |
| Concentration RSD | 0.5 % | 0.3 % | 0.3 % | 0.2 % | 0.2 % | 0.4 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474172-01D2 WG2010931
Analysis started at: 12/23/2024 9:10:10 AM
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 | 0.0020 ppm | 137.9558 ppm | 0.1082 ppm | 0.0062 ppm | 0.3265 ppm | 0.0051 ppm | 5.2717 ppm |
| Concentration per Run 1 | 0.0021 ppm | 139.0339 ppm | 0.1082 ppm | 0.0071 ppm | 0.3281 ppm | 0.0052 ppm | 5.2987 ppm |
| Concentration per Run 2 | 0.0017 ppm | 137.6004 ppm | 0.1080 ppm | 0.0047 ppm | 0.3257 ppm | 0.0050 ppm | 5.2641 ppm |
| Concentration per Run 3 | 0.0022 ppm | 137.2331 ppm | 0.1084 ppm | 0.0067 ppm | 0.3258 ppm | 0.0051 ppm | 5.2524 ppm |
| Concentration RSD | 11.6 % | 0.7 % | 0.2 % | 20.6 % | 0.4 % | 1.4 % | 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 | 0.0012 ppm | 0.0409 ppm | 0.1892 ppm | 0.0976 ppm | 137.3206 ppm | 6.7355 ppm | 0.1743 ppm |
| Concentration per Run 1 | 0.0013 ppm | 0.0407 ppm | 0.1894 ppm | 0.0980 ppm | 138.4694 ppm | 6.8366 ppm | 0.1778 ppm |
| Concentration per Run 2 | 0.0011 ppm | 0.0410 ppm | 0.1891 ppm | 0.0976 ppm | 136.6552 ppm | 6.7014 ppm | 0.1724 ppm |
| Concentration per Run 3 | 0.0011 ppm | 0.0409 ppm | 0.1889 ppm | 0.0972 ppm | 136.8370 ppm | 6.6686 ppm | 0.1726 ppm |
| Concentration RSD | 11.1 % | 0.3 % | 0.1 % | 0.4 % | 0.7 % | 1.3 % | 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 | 21.0143 ppm | 2.5891 ppm | 0.0041 ppm | 0.4095 ppm | 0.1193 ppm | 0.2125 ppm | 0.0017 ppm |
| Concentration per Run 1 | 21.1125 ppm | 2.5991 ppm | 0.0044 ppm | 0.4167 ppm | 0.1195 ppm | 0.2141 ppm | 0.0006 ppm |
| Concentration per Run 2 | 21.0270 ppm | 2.5876 ppm | 0.0037 ppm | 0.4074 ppm | 0.1191 ppm | 0.2130 ppm | 0.0008 ppm |
| Concentration per Run 3 | 20.9034 ppm | 2.5806 ppm | 0.0043 ppm | 0.4044 ppm | 0.1194 ppm | 0.2102 ppm | 0.0035 ppm |
| Concentration RSD | 0.5 % | 0.4 % | 9.4 % | 1.6 % | 0.2 % | 0.9 % | 96.2 % |

| | 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 | 6.2036 ppm | 0.0108 ppm | 0.0523 ppm | 5.4298 ppm | 0.0029 ppm | 0.2545 ppm |
| Concentration per Run 1 | 0.0016 ppm | 6.2530 ppm | 0.0109 ppm | 0.0530 ppm | 5.4511 ppm | 0.0036 ppm | 0.2555 ppm |
| Concentration per Run 2 | 0.0034 ppm | 6.2187 ppm | 0.0110 ppm | 0.0519 ppm | 5.4250 ppm | 0.0038 ppm | 0.2547 ppm |
| Concentration per Run 3 | 0.0004 ppm | 6.1391 ppm | 0.0106 ppm | 0.0521 ppm | 5.4134 ppm | 0.0013 ppm | 0.2534 ppm |
| Concentration RSD | 84.8 % | 0.9 % | 2.0 % | 1.1 % | 0.4 % | 48.8 % | 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 | 0.3981 ppm | 100.4941 % | 103.0316 % | 79.8304 % | 101.3456 % | 108.6528 % | 101.3781 % |
| Concentration per Run 1 | 0.3989 ppm | 100.1667 % | 102.8877 % | 79.1542 % | 101.0280 % | 109.0445 % | 101.0434 % |
| Concentration per Run 2 | 0.3971 ppm | 100.6628 % | 103.2461 % | 79.9941 % | 101.4677 % | 108.7829 % | 101.5447 % |
| Concentration per Run 3 | 0.3984 ppm | 100.6528 % | 102.9611 % | 80.3427 % | 101.5411 % | 108.1309 % | 101.5464 % |
| Concentration RSD | 0.2 % | 0.3 % | 0.2 % | 0.8 % | 0.3 % | 0.4 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474172-02D2 WG2010931
Analysis started at: 12/23/2024 9:14:35 AM
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 | 0.0018 ppm | 145.9013 ppm | 0.1173 ppm | 0.0046 ppm | 0.2411 ppm | 0.0046 ppm | 2.6318 ppm |
| Concentration per Run 1 | 0.0017 ppm | 146.6545 ppm | 0.1165 ppm | 0.0041 ppm | 0.2412 ppm | 0.0047 ppm | 2.6449 ppm |
| Concentration per Run 2 | 0.0016 ppm | 146.1667 ppm | 0.1165 ppm | 0.0049 ppm | 0.2410 ppm | 0.0046 ppm | 2.6425 ppm |
| Concentration per Run 3 | 0.0019 ppm | 144.8826 ppm | 0.1188 ppm | 0.0047 ppm | 0.2411 ppm | 0.0046 ppm | 2.6080 ppm |
| Concentration RSD | 9.0 % | 0.6 % | 1.1 % | 8.9 % | 0.0 % | 0.9 % | 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 | 0.0010 ppm | 0.0323 ppm | 0.2297 ppm | 0.0650 ppm | 128.7185 ppm | 4.4531 ppm | 0.1565 ppm |
| Concentration per Run 1 | 0.0009 ppm | 0.0321 ppm | 0.2308 ppm | 0.0649 ppm | 129.1541 ppm | 4.4714 ppm | 0.1578 ppm |
| Concentration per Run 2 | 0.0012 ppm | 0.0321 ppm | 0.2303 ppm | 0.0647 ppm | 129.1057 ppm | 4.4784 ppm | 0.1566 ppm |
| Concentration per Run 3 | 0.0010 ppm | 0.0327 ppm | 0.2280 ppm | 0.0653 ppm | 127.8956 ppm | 4.4095 ppm | 0.1552 ppm |
| Concentration RSD | 10.6 % | 1.2 % | 0.6 % | 0.5 % | 0.6 % | 0.9 % | 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 | 19.8666 ppm | 1.4103 ppm | 0.0042 ppm | 0.4291 ppm | 0.1159 ppm | 0.3257 ppm | 0.0027 ppm |
| Concentration per Run 1 | 19.9893 ppm | 1.4167 ppm | 0.0045 ppm | 0.4325 ppm | 0.1164 ppm | 0.3284 ppm | 0.0042 ppm |
| Concentration per Run 2 | 19.8699 ppm | 1.4156 ppm | 0.0041 ppm | 0.4291 ppm | 0.1154 ppm | 0.3250 ppm | 0.0030 ppm |
| Concentration per Run 3 | 19.7407 ppm | 1.3985 ppm | 0.0041 ppm | 0.4256 ppm | 0.1158 ppm | 0.3237 ppm | 0.0008 ppm |
| Concentration RSD | 0.6 % | 0.7 % | 5.6 % | 0.8 % | 0.4 % | 0.7 % | 65.4 % |

| | 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 | 0.0047 ppm | 8.8267 ppm | 0.0129 ppm | 0.0317 ppm | 5.7305 ppm | 0.0030 ppm | 0.2529 ppm |
| Concentration per Run 1 | 0.0062 ppm | 8.8538 ppm | 0.0116 ppm | 0.0318 ppm | 5.7456 ppm | 0.0034 ppm | 0.2547 ppm |
| Concentration per Run 2 | 0.0035 ppm | 8.8635 ppm | 0.0136 ppm | 0.0318 ppm | 5.7423 ppm | 0.0035 ppm | 0.2520 ppm |
| Concentration per Run 3 | 0.0045 ppm | 8.7627 ppm | 0.0137 ppm | 0.0315 ppm | 5.7036 ppm | 0.0022 ppm | 0.2518 ppm |
| Concentration RSD | 29.7 % | 0.6 % | 9.2 % | 0.6 % | 0.4 % | 24.1 % | 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 | 0.3626 ppm | 100.5462 % | 102.6049 % | 78.7093 % | 101.4065 % | 108.3476 % | 101.0779 % |
| Concentration per Run 1 | 0.3642 ppm | 100.4028 % | 102.8255 % | 78.1193 % | 101.1122 % | 108.8957 % | 100.8826 % |
| Concentration per Run 2 | 0.3630 ppm | 100.7007 % | 101.7950 % | 79.1060 % | 101.6966 % | 108.0685 % | 101.3582 % |
| Concentration per Run 3 | 0.3605 ppm | 100.5352 % | 103.1942 % | 78.9025 % | 101.4106 % | 108.0785 % | 100.9929 % |
| Concentration RSD | 0.5 % | 0.1 % | 0.7 % | 0.7 % | 0.3 % | 0.4 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473887-05D4 WG2010931
Analysis started at: 12/23/2024 9:18:59 AM
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 | 0.0018 ppm | 74.7864 ppm | 0.0294 ppm | 0.0029 ppm | 1.2451 ppm | 0.0038 ppm | 2.6323 ppm |
| Concentration per Run 1 | 0.0017 ppm | 74.3450 ppm | 0.0302 ppm | 0.0037 ppm | 1.2483 ppm | 0.0038 ppm | 2.6334 ppm |
| Concentration per Run 2 | 0.0020 ppm | 74.8704 ppm | 0.0290 ppm | 0.0024 ppm | 1.2413 ppm | 0.0039 ppm | 2.6370 ppm |
| Concentration per Run 3 | 0.0017 ppm | 75.1437 ppm | 0.0291 ppm | 0.0026 ppm | 1.2459 ppm | 0.0038 ppm | 2.6265 ppm |
| Concentration RSD | 9.4 % | 0.5 % | 2.2 % | 24.7 % | 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 | 0.0011 ppm | 0.0549 ppm | 0.0714 ppm | 0.0905 ppm | 130.2673 ppm | 3.3103 ppm | 0.1257 ppm |
| Concentration per Run 1 | 0.0010 ppm | 0.0547 ppm | 0.0715 ppm | 0.0907 ppm | 130.5998 ppm | 3.3330 ppm | 0.1265 ppm |
| Concentration per Run 2 | 0.0011 ppm | 0.0553 ppm | 0.0716 ppm | 0.0911 ppm | 130.5237 ppm | 3.2860 ppm | 0.1244 ppm |
| Concentration per Run 3 | 0.0012 ppm | 0.0546 ppm | 0.0712 ppm | 0.0897 ppm | 129.6784 ppm | 3.3119 ppm | 0.1262 ppm |
| Concentration RSD | 13.2 % | 0.7 % | 0.3 % | 0.8 % | 0.4 % | 0.7 % | 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 | 19.7600 ppm | 14.9164 ppm | 0.0021 ppm | 0.1017 ppm | 0.0972 ppm | 0.1604 ppm | 0.0010 ppm |
| Concentration per Run 1 | 19.7291 ppm | 14.9070 ppm | 0.0024 ppm | 0.1017 ppm | 0.0973 ppm | 0.1597 ppm | 0.0016 ppm |
| Concentration per Run 2 | 19.7381 ppm | 14.9621 ppm | 0.0017 ppm | 0.0999 ppm | 0.0965 ppm | 0.1605 ppm | 0.0003 ppm |
| Concentration per Run 3 | 19.8128 ppm | 14.8800 ppm | 0.0022 ppm | 0.1035 ppm | 0.0977 ppm | 0.1608 ppm | 0.0011 ppm |
| Concentration RSD | 0.2 % | 0.3 % | 16.8 % | 1.7 % | 0.6 % | 0.4 % | 65.4 % |

| | 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 | -0.0056 ppm | 1.1363 ppm | 0.0067 ppm | 0.0187 ppm | 0.0887 ppm | -0.0138 ppm | 0.0795 ppm |
| Concentration per Run 1 | -0.0066 ppm | 1.1313 ppm | 0.0071 ppm | 0.0188 ppm | 0.0885 ppm | -0.0134 ppm | 0.0798 ppm |
| Concentration per Run 2 | -0.0055 ppm | 1.1394 ppm | 0.0077 ppm | 0.0187 ppm | 0.0889 ppm | -0.0143 ppm | 0.0790 ppm |
| Concentration per Run 3 | -0.0049 ppm | 1.1381 ppm | 0.0052 ppm | 0.0187 ppm | 0.0886 ppm | -0.0137 ppm | 0.0797 ppm |
| Concentration RSD | 14.9 % | 0.4 % | 19.5 % | 0.5 % | 0.2 % | 3.4 % | 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 | 0.3750 ppm | 100.0880 % | 102.8462 % | 90.5638 % | 105.9262 % | 113.8688 % | 108.2932 % |
| Concentration per Run 1 | 0.3749 ppm | 100.4565 % | 102.8025 % | 90.6017 % | 106.3522 % | 113.8708 % | 108.2334 % |
| Concentration per Run 2 | 0.3744 ppm | 100.1516 % | 102.5020 % | 90.6673 % | 106.2171 % | 113.6460 % | 108.5260 % |
| Concentration per Run 3 | 0.3757 ppm | 99.6559 % | 103.2340 % | 90.4224 % | 105.2093 % | 114.0897 % | 108.1201 % |
| Concentration RSD | 0.2 % | 0.4 % | 0.4 % | 0.1 % | 0.6 % | 0.2 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 9:33:00 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 | 0.4812 ppm | 0.4841 ppm | 0.4683 ppm | 0.4537 ppm | 0.4959 ppm | 0.4876 ppm | 0.4865 ppm |
| Concentration per Run 1 | 0.4828 ppm | 0.4845 ppm | 0.4707 ppm | 0.4539 ppm | 0.4957 ppm | 0.4860 ppm | 0.4863 ppm |
| Concentration per Run 2 | 0.4819 ppm | 0.4878 ppm | 0.4692 ppm | 0.4517 ppm | 0.4952 ppm | 0.4894 ppm | 0.4913 ppm |
| Concentration per Run 3 | 0.4788 ppm | 0.4800 ppm | 0.4650 ppm | 0.4556 ppm | 0.4968 ppm | 0.4875 ppm | 0.4820 ppm |
| Recovery Percentage 1 | 96.238 % | 96.823 % | 93.657 % | 90.746 % | 99.184 % | 97.526 % | 97.307 % |
| Concentration RSD | 0.4 % | 0.8 % | 0.6 % | 0.4 % | 0.2 % | 0.3 % | 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 | 0.4784 ppm | 0.4911 ppm | 0.4749 ppm | 0.4813 ppm | 0.4885 ppm | 5.2932 ppm | 0.5097 ppm |
| Concentration per Run 1 | 0.4795 ppm | 0.4912 ppm | 0.4781 ppm | 0.4809 ppm | 0.4880 ppm | 5.3083 ppm | 0.5129 ppm |
| Concentration per Run 2 | 0.4790 ppm | 0.4913 ppm | 0.4740 ppm | 0.4814 ppm | 0.4909 ppm | 5.2787 ppm | 0.5112 ppm |
| Concentration per Run 3 | 0.4766 ppm | 0.4909 ppm | 0.4726 ppm | 0.4817 ppm | 0.4867 ppm | 5.2927 ppm | 0.5050 ppm |
| Recovery Percentage 1 | 95.672 % | 98.227 % | 94.979 % | 96.264 % | 97.709 % | 105.865 % | 101.940 % |
| Concentration RSD | 0.3 % | 0.0 % | 0.6 % | 0.1 % | 0.4 % | 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 | 0.4837 ppm | 0.4783 ppm | 0.4815 ppm | 10.3777 ppm | 0.4868 ppm | 0.4795 ppm | 0.4872 ppm |
| Concentration per Run 1 | 0.4831 ppm | 0.4767 ppm | 0.4782 ppm | 10.4120 ppm | 0.4911 ppm | 0.4783 ppm | 0.4862 ppm |
| Concentration per Run 2 | 0.4862 ppm | 0.4806 ppm | 0.4825 ppm | 10.3481 ppm | 0.4846 ppm | 0.4800 ppm | 0.4893 ppm |
| Concentration per Run 3 | 0.4818 ppm | 0.4777 ppm | 0.4838 ppm | 10.3730 ppm | 0.4847 ppm | 0.4803 ppm | 0.4861 ppm |
| Recovery Percentage 1 | 96.744 % | 95.667 % | 96.303 % | 103.777 % | 97.355 % | 95.906 % | 97.438 % |
| Concentration RSD | 0.5 % | 0.4 % | 0.6 % | 0.3 % | 0.8 % | 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 | 0.4743 ppm | 5.1486 ppm | 0.4982 ppm | 0.5259 ppm | 0.4754 ppm | 0.4851 ppm | 0.4868 ppm |
| Concentration per Run 1 | 0.4734 ppm | 5.1438 ppm | 0.5010 ppm | 0.5261 ppm | 0.4779 ppm | 0.4847 ppm | 0.4886 ppm |
| Concentration per Run 2 | 0.4757 ppm | 5.1523 ppm | 0.4982 ppm | 0.5270 ppm | 0.4746 ppm | 0.4857 ppm | 0.4864 ppm |
| Concentration per Run 3 | 0.4737 ppm | 5.1497 ppm | 0.4954 ppm | 0.5246 ppm | 0.4736 ppm | 0.4848 ppm | 0.4853 ppm |
| Recovery Percentage 1 | 94.854 % | 98.069 % | 99.641 % | 105.188 % | 95.074 % | 97.021 % | 97.356 % |
| Concentration RSD | 0.3 % | 0.1 % | 0.6 % | 0.2 % | 0.5 % | 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 | 0.4770 ppm | 100.9326 % | 101.0743 % | 96.8136 % | 95.3800 % | 99.4948 % | 96.7965 % |
| Concentration per Run 1 | 0.4799 ppm | 100.7974 % | 101.3905 % | 96.9215 % | 95.5141 % | 99.7614 % | 96.6342 % |
| Concentration per Run 2 | 0.4763 ppm | 100.6840 % | 100.5104 % | 96.7530 % | 95.2239 % | 99.1562 % | 96.8795 % |
| Concentration per Run 3 | 0.4747 ppm | 101.3165 % | 101.3221 % | 96.7662 % | 95.4018 % | 99.5669 % | 96.8759 % |
| Recovery Percentage 1 | 95.394 % | | | | | | |
| Concentration RSD | 0.6 % | 0.3 % | 0.5 % | 0.1 % | 0.2 % | 0.3 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 9:37:31 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 | -0.0028 ppm | -0.0011 ppm | 0.0007 ppm | 0.0001 ppm | 0.0000 ppm | 0.0020 ppm |
| Concentration per Run 1 | 0.0002 ppm | -0.0015 ppm | -0.0001 ppm | 0.0014 ppm | 0.0001 ppm | 0.0000 ppm | 0.0019 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0047 ppm | -0.0022 ppm | -0.0001 ppm | 0.0001 ppm | 0.0000 ppm | 0.0035 ppm |
| Concentration per Run 3 | 0.0001 ppm | -0.0021 ppm | -0.0009 ppm | 0.0007 ppm | 0.0001 ppm | 0.0000 ppm | 0.0007 ppm |
| Recovery Percentage 1 | 1.734 % | -2.767 % | -21.116 % | 2.285 % | 0.994 % | 0.438 % | 2.050 % |
| Concentration RSD | 125.3 % | 60.3 % | 99.2 % | 106.6 % | 18.5 % | 66.8 % | 69.4 % |

| | 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 | -0.0002 ppm | 0.0000 ppm | 0.0013 ppm | 0.0087 ppm | -0.0006 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0003 ppm | -0.0002 ppm | 0.0001 ppm | 0.0016 ppm | 0.0157 ppm | -0.0004 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0002 ppm | -0.0003 ppm | 0.0000 ppm | 0.0016 ppm | 0.0103 ppm | -0.0008 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0001 ppm | -0.0003 ppm | -0.0001 ppm | 0.0006 ppm | 0.0000 ppm | -0.0005 ppm |
| Recovery Percentage 1 | -1.414 % | -1.802 % | -2.432 % | 0.011 % | 2.508 % | 0.346 % | -5.508 % |
| Concentration RSD | 33.2 % | 45.1 % | 27.1 % | 9,403.1 % | 47.2 % | 92.2 % | 36.6 % |

| | 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 | -0.0019 ppm | 0.0001 ppm | 0.0020 ppm | -0.0064 ppm | -0.0003 ppm | 0.0001 ppm | 0.0006 ppm |
| Concentration per Run 1 | -0.0017 ppm | 0.0000 ppm | 0.0020 ppm | -0.0059 ppm | -0.0006 ppm | -0.0007 ppm | 0.0011 ppm |
| Concentration per Run 2 | -0.0029 ppm | 0.0001 ppm | 0.0021 ppm | -0.0067 ppm | -0.0004 ppm | 0.0012 ppm | 0.0004 ppm |
| Concentration per Run 3 | -0.0010 ppm | 0.0001 ppm | 0.0018 ppm | -0.0065 ppm | 0.0001 ppm | -0.0002 ppm | 0.0001 ppm |
| Recovery Percentage 1 | -1.880 % | 0.900 % | 3.972 % | -0.318 % | -1.129 % | 1.180 % | 1.109 % |
| Concentration RSD | 52.2 % | 44.6 % | 8.0 % | 6.7 % | 132.1 % | 837.2 % | 91.9 % |

| | 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 | 0.0006 ppm | 0.0005 ppm | 0.0001 ppm | -0.0001 ppm | 0.0000 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0013 ppm | 0.0004 ppm | 0.0006 ppm | 0.0001 ppm | -0.0002 ppm | 0.0002 ppm | 0.0000 ppm |
| Concentration per Run 2 | -0.0012 ppm | 0.0017 ppm | 0.0004 ppm | 0.0001 ppm | -0.0002 ppm | 0.0002 ppm | 0.0002 ppm |
| Concentration per Run 3 | 0.0001 ppm | -0.0004 ppm | 0.0005 ppm | 0.0001 ppm | 0.0001 ppm | -0.0002 ppm | 0.0000 ppm |
| Recovery Percentage 1 | -8.026 % | 0.113 % | 1.017 % | 0.790 % | -1.228 % | 0.238 % | 0.761 % |
| Concentration RSD | 100.9 % | 186.3 % | 14.7 % | 53.2 % | 123.8 % | 536.8 % | 110.4 % |

| | 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 | 0.0001 ppm | 98.5900 % | 99.0941 % | 96.9845 % | 96.0661 % | 99.0568 % | 97.6918 % |
| Concentration per Run 1 | 0.0002 ppm | 98.2009 % | 99.2398 % | 96.4344 % | 95.8172 % | 98.8146 % | 97.7255 % |
| Concentration per Run 2 | 0.0000 ppm | 98.5476 % | 99.0745 % | 97.5783 % | 96.0336 % | 99.1184 % | 98.0290 % |
| Concentration per Run 3 | 0.0002 ppm | 99.0214 % | 98.9678 % | 96.9409 % | 96.3474 % | 99.2375 % | 97.3209 % |
| Recovery Percentage 1 | 2.515 % | | | | | | |
| Concentration RSD | 58.2 % | 0.4 % | 0.1 % | 0.6 % | 0.3 % | 0.2 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012440-1 WG2012440
Analysis started at: 12/23/2024 9:51:21 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 | 0.0000 ppm | 0.0008 ppm | -0.0009 ppm | 0.0008 ppm | 0.0001 ppm | 0.0000 ppm | 0.0083 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0018 ppm | -0.0019 ppm | 0.0014 ppm | 0.0001 ppm | 0.0000 ppm | 0.0087 ppm |
| Concentration per Run 2 | 0.0003 ppm | 0.0027 ppm | -0.0008 ppm | 0.0007 ppm | 0.0000 ppm | 0.0000 ppm | 0.0090 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0021 ppm | -0.0001 ppm | 0.0002 ppm | 0.0001 ppm | 0.0000 ppm | 0.0072 ppm |
| Recovery Percentage 1 | -0.337 % | 0.810 % | -18.675 % | 2.582 % | 0.580 % | -0.133 % | 8.297 % |
| Concentration RSD | 1,446.9 % | 319.7 % | 95.9 % | 77.7 % | 75.5 % | 133.7 % | 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 | -0.0001 ppm | -0.0003 ppm | 0.0008 ppm | -0.0002 ppm | 0.0087 ppm | 0.0121 ppm | -0.0009 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0004 ppm | 0.0008 ppm | -0.0003 ppm | 0.0090 ppm | 0.0129 ppm | -0.0010 ppm |
| Concentration per Run 2 | -0.0002 ppm | -0.0002 ppm | 0.0006 ppm | -0.0002 ppm | 0.0089 ppm | 0.0163 ppm | -0.0005 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0002 ppm | 0.0010 ppm | 0.0000 ppm | 0.0081 ppm | 0.0072 ppm | -0.0012 ppm |
| Recovery Percentage 1 | -2.624 % | -2.515 % | 7.986 % | -1.517 % | 17.324 % | 0.486 % | -8.580 % |
| Concentration RSD | 61.8 % | 39.7 % | 22.8 % | 89.9 % | 5.5 % | 38.0 % | 42.4 % |

| | 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 | 0.0001 ppm | -0.0003 ppm | 0.0179 ppm | -0.0001 ppm | -0.0005 ppm | 0.0017 ppm |
| Concentration per Run 1 | 0.0007 ppm | 0.0000 ppm | -0.0004 ppm | 0.0191 ppm | 0.0005 ppm | -0.0005 ppm | 0.0032 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0000 ppm | -0.0003 ppm | 0.0160 ppm | -0.0001 ppm | -0.0002 ppm | 0.0011 ppm |
| Concentration per Run 3 | 0.0019 ppm | 0.0002 ppm | -0.0004 ppm | 0.0187 ppm | -0.0008 ppm | -0.0007 ppm | 0.0008 ppm |
| Recovery Percentage 1 | 0.857 % | 0.525 % | -0.697 % | 0.896 % | -0.466 % | -4.573 % | 3.374 % |
| Concentration RSD | 116.9 % | 170.7 % | 15.9 % | 9.5 % | 534.5 % | 63.7 % | 76.7 % |

| | 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 | 0.0029 ppm | -0.0004 ppm | 0.0001 ppm | -0.0003 ppm | -0.0001 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0005 ppm | 0.0032 ppm | -0.0007 ppm | 0.0001 ppm | -0.0004 ppm | -0.0001 ppm | 0.0001 ppm |
| Concentration per Run 2 | 0.0013 ppm | 0.0022 ppm | -0.0003 ppm | 0.0001 ppm | -0.0001 ppm | -0.0001 ppm | 0.0001 ppm |
| Concentration per Run 3 | -0.0019 ppm | 0.0032 ppm | -0.0002 ppm | 0.0001 ppm | -0.0003 ppm | -0.0002 ppm | 0.0002 ppm |
| Recovery Percentage 1 | -0.358 % | 0.571 % | -0.794 % | 0.996 % | -2.850 % | -0.578 % | 1.323 % |
| Concentration RSD | 4,701.3 % | 19.8 % | 66.9 % | 6.1 % | 55.5 % | 54.9 % | 32.5 % |

| | 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 | -0.0003 ppm | 101.7180 % | 99.7282 % | 103.0822 % | 102.4562 % | 100.7910 % | 101.3837 % |
| Concentration per Run 1 | -0.0002 ppm | 101.2162 % | 99.1083 % | 102.5535 % | 102.7031 % | 100.7499 % | 101.4909 % |
| Concentration per Run 2 | -0.0002 ppm | 102.0387 % | 100.4101 % | 103.5052 % | 102.9190 % | 101.2107 % | 101.2524 % |
| Concentration per Run 3 | -0.0004 ppm | 101.8992 % | 99.6662 % | 103.1879 % | 101.7466 % | 100.4126 % | 101.4078 % |
| Recovery Percentage 1 | -5.344 % | | | | | | |
| Concentration RSD | 33.6 % | 0.4 % | 0.7 % | 0.5 % | 0.6 % | 0.4 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012440-2 WG2012440
Analysis started at: 12/23/2024 9:55:58 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 | 0.0525 ppm | 2.2114 ppm | 0.1172 ppm | 0.9164 ppm | 2.0810 ppm | 0.0505 ppm | 9.9682 ppm |
| Concentration per Run 1 | 0.0525 ppm | 2.2152 ppm | 0.1177 ppm | 0.9167 ppm | 2.0879 ppm | 0.0506 ppm | 9.9695 ppm |
| Concentration per Run 2 | 0.0526 ppm | 2.2047 ppm | 0.1181 ppm | 0.9178 ppm | 2.0762 ppm | 0.0503 ppm | 9.9759 ppm |
| Concentration per Run 3 | 0.0523 ppm | 2.2142 ppm | 0.1157 ppm | 0.9145 ppm | 2.0788 ppm | 0.0504 ppm | 9.9592 ppm |
| Concentration RSD | 0.3 % | 0.3 % | 1.1 % | 0.2 % | 0.3 % | 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 | 0.0529 ppm | 0.5113 ppm | 0.2017 ppm | 0.2609 ppm | 1.0011 ppm | 11.2566 ppm | -0.0001 ppm |
| Concentration per Run 1 | 0.0529 ppm | 0.5115 ppm | 0.2020 ppm | 0.2601 ppm | 1.0035 ppm | 11.2232 ppm | 0.0001 ppm |
| Concentration per Run 2 | 0.0530 ppm | 0.5132 ppm | 0.2024 ppm | 0.2617 ppm | 0.9985 ppm | 11.2459 ppm | 0.0002 ppm |
| Concentration per Run 3 | 0.0526 ppm | 0.5091 ppm | 0.2005 ppm | 0.2610 ppm | 1.0014 ppm | 11.3007 ppm | -0.0007 ppm |
| Concentration RSD | 0.4 % | 0.4 % | 0.5 % | 0.3 % | 0.3 % | 0.4 % | 361.2 % |

| | 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 | 10.0940 ppm | 0.4979 ppm | 0.9009 ppm | 11.2615 ppm | 0.4964 ppm | 0.5452 ppm | 0.4274 ppm |
| Concentration per Run 1 | 10.1012 ppm | 0.4987 ppm | 0.8976 ppm | 11.2548 ppm | 0.4966 ppm | 0.5480 ppm | 0.4226 ppm |
| Concentration per Run 2 | 10.1493 ppm | 0.4978 ppm | 0.9039 ppm | 11.2780 ppm | 0.4983 ppm | 0.5456 ppm | 0.4298 ppm |
| Concentration per Run 3 | 10.0315 ppm | 0.4972 ppm | 0.9011 ppm | 11.2518 ppm | 0.4944 ppm | 0.5419 ppm | 0.4299 ppm |
| Concentration RSD | 0.6 % | 0.1 % | 0.4 % | 0.1 % | 0.4 % | 0.6 % | 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 | 0.1199 ppm | 0.9894 ppm | 0.9752 ppm | 1.0304 ppm | 0.9883 ppm | 0.1269 ppm | 0.5282 ppm |
| Concentration per Run 1 | 0.1205 ppm | 0.9880 ppm | 0.9758 ppm | 1.0346 ppm | 0.9878 ppm | 0.1255 ppm | 0.5278 ppm |
| Concentration per Run 2 | 0.1190 ppm | 0.9904 ppm | 0.9805 ppm | 1.0283 ppm | 0.9906 ppm | 0.1271 ppm | 0.5302 ppm |
| Concentration per Run 3 | 0.1202 ppm | 0.9899 ppm | 0.9694 ppm | 1.0282 ppm | 0.9864 ppm | 0.1281 ppm | 0.5265 ppm |
| Concentration RSD | 0.7 % | 0.1 % | 0.6 % | 0.4 % | 0.2 % | 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 | 0.4910 ppm | 97.9503 % | 99.9214 % | 92.0915 % | 97.0167 % | 100.1745 % | 96.3031 % |
| Concentration per Run 1 | 0.4936 ppm | 97.8019 % | 99.8158 % | 91.8277 % | 97.6848 % | 100.2373 % | 96.3571 % |
| Concentration per Run 2 | 0.4933 ppm | 97.7091 % | 99.3905 % | 92.1694 % | 96.8803 % | 99.4073 % | 96.3484 % |
| Concentration per Run 3 | 0.4860 ppm | 98.3398 % | 100.5578 % | 92.2775 % | 96.4850 % | 100.8790 % | 96.2038 % |
| Concentration RSD | 0.9 % | 0.3 % | 0.6 % | 0.3 % | 0.6 % | 0.7 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2472163-03 WG2010950
Analysis started at: 12/23/2024 10:00:21 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 | 0.0000 ppm | 0.0406 ppm | -0.0010 ppm | 0.1087 ppm | 0.1624 ppm | 0.0001 ppm | 24.1384 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0423 ppm | -0.0020 ppm | 0.1106 ppm | 0.1620 ppm | 0.0000 ppm | 24.2339 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0401 ppm | -0.0004 ppm | 0.1077 ppm | 0.1619 ppm | 0.0001 ppm | 24.1556 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0395 ppm | -0.0005 ppm | 0.1080 ppm | 0.1633 ppm | 0.0001 ppm | 24.0256 ppm |
| Concentration RSD | 1,089.4 % | 3.6 % | 96.1 % | 1.5 % | 0.5 % | 35.9 % | 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 | 0.0040 ppm | 0.0000 ppm | 0.3151 ppm | 0.2183 ppm | 4.9975 ppm | 0.0031 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.0039 ppm | 0.0002 ppm | 0.3185 ppm | 0.2178 ppm | 4.9822 ppm | 0.0036 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0041 ppm | -0.0004 ppm | 0.3136 ppm | 0.2190 ppm | 5.0104 ppm | 0.0028 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0040 ppm | 0.0002 ppm | 0.3132 ppm | 0.2182 ppm | 4.9998 ppm | 0.0028 ppm |
| Concentration RSD | 51.4 % | 2.7 % | 3,668.9 % | 0.9 % | 0.3 % | 0.3 % | 15.6 % |

| | 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 | 11.8313 ppm | 0.6300 ppm | 0.0061 ppm | 343.5263 ppm | 0.0141 ppm | 0.0075 ppm | 0.0055 ppm |
| Concentration per Run 1 | 11.9285 ppm | 0.6330 ppm | 0.0061 ppm | 342.2804 ppm | 0.0134 ppm | 0.0078 ppm | 0.0052 ppm |
| Concentration per Run 2 | 11.8018 ppm | 0.6288 ppm | 0.0062 ppm | 344.4524 ppm | 0.0148 ppm | 0.0073 ppm | 0.0047 ppm |
| Concentration per Run 3 | 11.7636 ppm | 0.6284 ppm | 0.0061 ppm | 343.8460 ppm | 0.0143 ppm | 0.0072 ppm | 0.0067 ppm |
| Concentration RSD | 0.7 % | 0.4 % | 0.9 % | 0.3 % | 5.1 % | 4.3 % | 18.3 % |

| | 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 | 4.1999 ppm | 0.0019 ppm | 0.1550 ppm | 0.0000 ppm | 0.0004 ppm | 0.0000 ppm |
| Concentration per Run 1 | -0.0002 ppm | 4.2443 ppm | 0.0012 ppm | 0.1551 ppm | 0.0002 ppm | -0.0001 ppm | -0.0001 ppm |
| Concentration per Run 2 | -0.0038 ppm | 4.1767 ppm | 0.0023 ppm | 0.1547 ppm | -0.0001 ppm | 0.0004 ppm | -0.0001 ppm |
| Concentration per Run 3 | -0.0003 ppm | 4.1785 ppm | 0.0022 ppm | 0.1552 ppm | -0.0002 ppm | 0.0008 ppm | 0.0002 ppm |
| Concentration RSD | 145.0 % | 0.9 % | 30.9 % | 0.2 % | 405.9 % | 121.3 % | 4,262.2 % |

| | 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 | 0.0950 ppm | 87.8036 % | 95.4563 % | 79.1098 % | 89.7330 % | 98.3339 % | 91.1166 % |
| Concentration per Run 1 | 0.0961 ppm | 87.4095 % | 95.4371 % | 78.9845 % | 89.9715 % | 98.4890 % | 91.1166 % |
| Concentration per Run 2 | 0.0946 ppm | 88.0655 % | 95.5637 % | 79.0624 % | 90.0846 % | 98.5059 % | 91.1239 % |
| Concentration per Run 3 | 0.0944 ppm | 87.9358 % | 95.3681 % | 79.2825 % | 89.1428 % | 98.0068 % | 91.1091 % |
| Concentration RSD | 0.9 % | 0.4 % | 0.1 % | 0.2 % | 0.6 % | 0.3 % | 0.0 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473734-01 WG2010950
Analysis started at: 12/23/2024 10:04:46 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 | -0.0002 ppm | -0.0020 ppm | 0.0031 ppm | 0.1313 ppm | 0.2099 ppm | 0.0000 ppm | 52.5506 ppm |
| Concentration per Run 1 | -0.0004 ppm | -0.0015 ppm | 0.0032 ppm | 0.1325 ppm | 0.2106 ppm | 0.0000 ppm | 52.6748 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0004 ppm | 0.0032 ppm | 0.1311 ppm | 0.2104 ppm | 0.0000 ppm | 52.2236 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0048 ppm | 0.0028 ppm | 0.1302 ppm | 0.2086 ppm | 0.0000 ppm | 52.7534 ppm |
| Concentration RSD | 67.4 % | 130.7 % | 7.9 % | 0.9 % | 0.5 % | 164.9 % | 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 | -0.0003 ppm | 0.0001 ppm | -0.0001 ppm | 0.0135 ppm | 0.0064 ppm | 1.5605 ppm | 0.0414 ppm |
| Concentration per Run 1 | -0.0003 ppm | 0.0001 ppm | 0.0001 ppm | 0.0135 ppm | 0.0069 ppm | 1.5715 ppm | 0.0423 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.0000 ppm | -0.0004 ppm | 0.0138 ppm | 0.0064 ppm | 1.5768 ppm | 0.0418 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0001 ppm | 0.0000 ppm | 0.0133 ppm | 0.0058 ppm | 1.5332 ppm | 0.0401 ppm |
| Concentration RSD | 3.9 % | 66.9 % | 240.8 % | 1.7 % | 8.5 % | 1.5 % | 2.9 % |

| | 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 | 18.3537 ppm | 0.0002 ppm | 0.0015 ppm | 15.5085 ppm | 0.0007 ppm | 0.0003 ppm | 0.0015 ppm |
| Concentration per Run 1 | 18.5451 ppm | 0.0002 ppm | 0.0017 ppm | 15.5007 ppm | 0.0006 ppm | 0.0001 ppm | 0.0022 ppm |
| Concentration per Run 2 | 18.3494 ppm | 0.0002 ppm | 0.0012 ppm | 15.8214 ppm | 0.0010 ppm | 0.0007 ppm | 0.0022 ppm |
| Concentration per Run 3 | 18.1665 ppm | 0.0001 ppm | 0.0016 ppm | 15.2032 ppm | 0.0004 ppm | 0.0002 ppm | 0.0001 ppm |
| Concentration RSD | 1.0 % | 48.7 % | 16.6 % | 2.0 % | 47.2 % | 94.6 % | 79.4 % |

| | 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 | 0.0011 ppm | 12.9400 ppm | 0.0002 ppm | 0.5225 ppm | -0.0003 ppm | 0.0000 ppm | 0.0083 ppm |
| Concentration per Run 1 | 0.0008 ppm | 13.0034 ppm | 0.0000 ppm | 0.5244 ppm | -0.0003 ppm | -0.0003 ppm | 0.0084 ppm |
| Concentration per Run 2 | 0.0015 ppm | 12.9869 ppm | 0.0002 ppm | 0.5242 ppm | -0.0002 ppm | 0.0000 ppm | 0.0083 ppm |
| Concentration per Run 3 | 0.0009 ppm | 12.8296 ppm | 0.0003 ppm | 0.5189 ppm | -0.0004 ppm | 0.0003 ppm | 0.0084 ppm |
| Concentration RSD | 39.5 % | 0.7 % | 114.4 % | 0.6 % | 29.6 % | 4,010.9 % | 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 | 0.0038 ppm | 93.6750 % | 97.7953 % | 88.0427 % | 94.0095 % | 98.6803 % | 94.0212 % |
| Concentration per Run 1 | 0.0038 ppm | 93.1227 % | 97.6291 % | 88.1010 % | 94.1632 % | 98.8952 % | 94.1937 % |
| Concentration per Run 2 | 0.0039 ppm | 93.7052 % | 98.4089 % | 87.8115 % | 93.9838 % | 99.3618 % | 93.8026 % |
| Concentration per Run 3 | 0.0037 ppm | 94.1969 % | 97.3479 % | 88.2154 % | 93.8815 % | 97.7840 % | 94.0674 % |
| Concentration RSD | 1.7 % | 0.6 % | 0.6 % | 0.2 % | 0.2 % | 0.8 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473747-01 WG2010950
Analysis started at: 12/23/2024 10:09:13 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 | -0.0001 ppm | 0.0545 ppm | -0.0003 ppm | 0.0127 ppm | 0.1092 ppm | 0.0000 ppm | 5.6364 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0528 ppm | -0.0002 ppm | 0.0131 ppm | 0.1099 ppm | 0.0000 ppm | 5.6648 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0545 ppm | -0.0012 ppm | 0.0131 ppm | 0.1090 ppm | 0.0000 ppm | 5.6470 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0563 ppm | 0.0006 ppm | 0.0121 ppm | 0.1088 ppm | 0.0000 ppm | 5.5974 ppm |
| Concentration RSD | 35.2 % | 3.2 % | 331.8 % | 4.6 % | 0.6 % | 47.5 % | 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 | 0.0000 ppm | 0.0001 ppm | 0.0006 ppm | 0.0607 ppm | 2.4473 ppm | -0.0003 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0001 ppm | -0.0002 ppm | 0.0007 ppm | 0.0614 ppm | 2.4735 ppm | -0.0009 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | 0.0001 ppm | 0.0005 ppm | 0.0604 ppm | 2.4541 ppm | -0.0001 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0002 ppm | 0.0003 ppm | 0.0005 ppm | 0.0602 ppm | 2.4143 ppm | 0.0000 ppm |
| Concentration RSD | 589.1 % | 438.8 % | 254.5 % | 17.0 % | 1.1 % | 1.2 % | 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 | 1.5470 ppm | 0.0338 ppm | 0.0003 ppm | 29.9041 ppm | 0.0005 ppm | 0.0003 ppm | 0.0005 ppm |
| Concentration per Run 1 | 1.5548 ppm | 0.0341 ppm | 0.0000 ppm | 29.9192 ppm | 0.0002 ppm | 0.0014 ppm | 0.0001 ppm |
| Concentration per Run 2 | 1.5512 ppm | 0.0337 ppm | 0.0007 ppm | 30.1259 ppm | 0.0011 ppm | -0.0003 ppm | 0.0014 ppm |
| Concentration per Run 3 | 1.5350 ppm | 0.0335 ppm | 0.0002 ppm | 29.6673 ppm | 0.0001 ppm | -0.0001 ppm | 0.0001 ppm |
| Concentration RSD | 0.7 % | 1.0 % | 111.1 % | 0.8 % | 121.3 % | 263.8 % | 146.7 % |

| | 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 | -0.0007 ppm | 5.8568 ppm | 0.0004 ppm | 0.0680 ppm | -0.0004 ppm | 0.0002 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0016 ppm | 5.8928 ppm | 0.0004 ppm | 0.0685 ppm | -0.0001 ppm | 0.0002 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0001 ppm | 5.8583 ppm | 0.0010 ppm | 0.0679 ppm | -0.0004 ppm | 0.0005 ppm | 0.0002 ppm |
| Concentration per Run 3 | -0.0004 ppm | 5.8193 ppm | -0.0003 ppm | 0.0675 ppm | -0.0006 ppm | -0.0001 ppm | 0.0001 ppm |
| Concentration RSD | 110.8 % | 0.6 % | 178.6 % | 0.7 % | 57.7 % | 183.1 % | 57.3 % |

| | 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 | 95.0795 % | 98.6803 % | 92.0476 % | 97.1290 % | 100.9930 % | 96.6591 % |
| Concentration per Run 1 | 0.0010 ppm | 94.5893 % | 97.9541 % | 92.0050 % | 97.3370 % | 100.4585 % | 96.6141 % |
| Concentration per Run 2 | 0.0005 ppm | 94.8257 % | 98.5966 % | 91.7399 % | 96.7575 % | 100.8800 % | 96.7580 % |
| Concentration per Run 3 | 0.0008 ppm | 95.8234 % | 99.4904 % | 92.3980 % | 97.2925 % | 101.6404 % | 96.6052 % |
| Concentration RSD | 29.2 % | 0.7 % | 0.8 % | 0.4 % | 0.3 % | 0.6 % | 0.1 % |

# iCAP Pro Trace 8 Data report
12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473927-01 WG2012440
Analysis started at: 12/23/2024 10:13:36 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 | -0.0001 ppm | -0.0005 ppm | 0.0000 ppm | 0.0325 ppm | 0.2599 ppm | 0.0000 ppm | 43.2876 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0014 ppm | 0.0002 ppm | 0.0318 ppm | 0.2601 ppm | 0.0000 ppm | 43.3753 ppm |
| Concentration per Run 2 | -0.0002 ppm | -0.0002 ppm | 0.0009 ppm | 0.0329 ppm | 0.2606 ppm | 0.0000 ppm | 43.2820 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0000 ppm | -0.0011 ppm | 0.0327 ppm | 0.2591 ppm | 0.0000 ppm | 43.2055 ppm |
| Concentration RSD | 35.1 % | 132.1 % | 7,082.7 % | 1.8 % | 0.3 % | 469.2 % | 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 | -0.0003 ppm | -0.0003 ppm | 0.0000 ppm | 0.0236 ppm | 0.0025 ppm | 1.5379 ppm | 0.0143 ppm |
| Concentration per Run 1 | -0.0003 ppm | -0.0005 ppm | -0.0003 ppm | 0.0238 ppm | 0.0024 ppm | 1.5543 ppm | 0.0155 ppm |
| Concentration per Run 2 | -0.0003 ppm | -0.0005 ppm | 0.0001 ppm | 0.0238 ppm | 0.0024 ppm | 1.5366 ppm | 0.0143 ppm |
| Concentration per Run 3 | -0.0003 ppm | -0.0001 ppm | 0.0000 ppm | 0.0233 ppm | 0.0029 ppm | 1.5227 ppm | 0.0131 ppm |
| Concentration RSD | 8.0 % | 59.8 % | 455.5 % | 1.2 % | 10.9 % | 1.0 % | 8.4 % |

| | 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 | 5.2265 ppm | 0.0001 ppm | 0.0003 ppm | 13.3405 ppm | 0.0001 ppm | 0.0006 ppm | 0.0014 ppm |
| Concentration per Run 1 | 5.2855 ppm | 0.0001 ppm | 0.0002 ppm | 13.4899 ppm | 0.0002 ppm | -0.0005 ppm | 0.0018 ppm |
| Concentration per Run 2 | 5.2100 ppm | 0.0001 ppm | 0.0006 ppm | 13.3041 ppm | -0.0002 ppm | 0.0004 ppm | 0.0025 ppm |
| Concentration per Run 3 | 5.1839 ppm | 0.0001 ppm | 0.0003 ppm | 13.2274 ppm | 0.0002 ppm | 0.0019 ppm | -0.0001 ppm |
| Concentration RSD | 1.0 % | 47.9 % | 61.9 % | 1.0 % | 383.0 % | 213.3 % | 93.0 % |

| | 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 | 4.9726 ppm | 0.0003 ppm | 0.7149 ppm | -0.0004 ppm | -0.0007 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0020 ppm | 5.0326 ppm | 0.0002 ppm | 0.7170 ppm | -0.0005 ppm | -0.0012 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0007 ppm | 4.9638 ppm | 0.0006 ppm | 0.7157 ppm | -0.0003 ppm | -0.0006 ppm | 0.0002 ppm |
| Concentration per Run 3 | 0.0007 ppm | 4.9215 ppm | 0.0001 ppm | 0.7121 ppm | -0.0003 ppm | -0.0002 ppm | 0.0001 ppm |
| Concentration RSD | 198.9 % | 1.1 % | 82.9 % | 0.4 % | 35.6 % | 68.9 % | 46.6 % |

| | 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 | 0.0202 ppm | 95.7823 % | 99.4854 % | 90.5623 % | 95.5746 % | 99.3490 % | 95.1050 % |
| Concentration per Run 1 | 0.0205 ppm | 94.9197 % | 99.3836 % | 90.1384 % | 95.5280 % | 99.8683 % | 94.9786 % |
| Concentration per Run 2 | 0.0201 ppm | 96.0993 % | 99.5586 % | 90.4407 % | 95.7966 % | 99.3846 % | 94.9577 % |
| Concentration per Run 3 | 0.0199 ppm | 96.3277 % | 99.5140 % | 91.1076 % | 95.3991 % | 98.7942 % | 95.3788 % |
| Concentration RSD | 1.5 % | 0.8 % | 0.1 % | 0.5 % | 0.2 % | 0.5 % | 0.2 % |

# iCAP Pro Trace 8 Data report
12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012440-3 WG2012440
Analysis started at: 12/23/2024 10:17:59 AM
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 | 0.0519 ppm | 2.1983 ppm | 0.1213 ppm | 0.9505 ppm | 2.3286 ppm | 0.0503 ppm | 52.6701 ppm |
| Concentration per Run 1 | 0.0522 ppm | 2.2089 ppm | 0.1224 ppm | 0.9568 ppm | 2.3238 ppm | 0.0504 ppm | 52.9428 ppm |
| Concentration per Run 2 | 0.0523 ppm | 2.1972 ppm | 0.1203 ppm | 0.9517 ppm | 2.3246 ppm | 0.0501 ppm | 52.5492 ppm |
| Concentration per Run 3 | 0.0513 ppm | 2.1887 ppm | 0.1211 ppm | 0.9429 ppm | 2.3374 ppm | 0.0505 ppm | 52.5182 ppm |
| Concentration RSD | 1.1 % | 0.5 % | 0.9 % | 0.7 % | 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 | 0.0520 ppm | 0.4952 ppm | 0.1992 ppm | 0.2841 ppm | 0.9876 ppm | 12.9373 ppm | 0.0142 ppm |
| Concentration per Run 1 | 0.0524 ppm | 0.5008 ppm | 0.2011 ppm | 0.2860 ppm | 0.9896 ppm | 12.9194 ppm | 0.0148 ppm |
| Concentration per Run 2 | 0.0520 ppm | 0.4958 ppm | 0.1989 ppm | 0.2849 ppm | 0.9817 ppm | 12.9305 ppm | 0.0144 ppm |
| Concentration per Run 3 | 0.0517 ppm | 0.4890 ppm | 0.1976 ppm | 0.2814 ppm | 0.9915 ppm | 12.9621 ppm | 0.0135 ppm |
| Concentration RSD | 0.6 % | 1.2 % | 0.9 % | 0.8 % | 0.5 % | 0.2 % | 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 | 14.9601 ppm | 0.4895 ppm | 0.9015 ppm | 24.4648 ppm | 0.4810 ppm | 0.5538 ppm | 0.4497 ppm |
| Concentration per Run 1 | 15.1005 ppm | 0.4913 ppm | 0.9049 ppm | 24.4840 ppm | 0.4857 ppm | 0.5562 ppm | 0.4520 ppm |
| Concentration per Run 2 | 14.9588 ppm | 0.4884 ppm | 0.8981 ppm | 24.4930 ppm | 0.4794 ppm | 0.5535 ppm | 0.4488 ppm |
| Concentration per Run 3 | 14.8211 ppm | 0.4887 ppm | 0.9016 ppm | 24.4174 ppm | 0.4780 ppm | 0.5517 ppm | 0.4484 ppm |
| Concentration RSD | 0.9 % | 0.3 % | 0.4 % | 0.2 % | 0.9 % | 0.4 % | 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 | 0.1208 ppm | 6.0013 ppm | 0.9600 ppm | 1.7358 ppm | 0.9888 ppm | 0.1269 ppm | 0.5283 ppm |
| Concentration per Run 1 | 0.1201 ppm | 6.0564 ppm | 0.9705 ppm | 1.7368 ppm | 0.9955 ppm | 0.1280 ppm | 0.5325 ppm |
| Concentration per Run 2 | 0.1217 ppm | 5.9910 ppm | 0.9585 ppm | 1.7333 ppm | 0.9887 ppm | 0.1262 ppm | 0.5282 ppm |
| Concentration per Run 3 | 0.1206 ppm | 5.9564 ppm | 0.9511 ppm | 1.7374 ppm | 0.9821 ppm | 0.1265 ppm | 0.5240 ppm |
| Concentration RSD | 0.7 % | 0.8 % | 1.0 % | 0.1 % | 0.7 % | 0.8 % | 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 | 0.4921 ppm | 95.8395 % | 99.6009 % | 86.8034 % | 93.9855 % | 98.6722 % | 93.3769 % |
| Concentration per Run 1 | 0.4986 ppm | 95.2975 % | 99.4368 % | 86.4753 % | 94.0304 % | 98.9151 % | 93.4959 % |
| Concentration per Run 2 | 0.4904 ppm | 95.8654 % | 99.5513 % | 86.9183 % | 94.0647 % | 98.6295 % | 93.4117 % |
| Concentration per Run 3 | 0.4872 ppm | 96.3557 % | 99.8145 % | 87.0165 % | 93.8613 % | 98.4719 % | 93.2231 % |
| Concentration RSD | 1.2 % | 0.6 % | 0.2 % | 0.3 % | 0.1 % | 0.2 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012440-4 WG2012440
Analysis started at: 12/23/2024 10:22:23 AM
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 | 0.0000 ppm | -0.0017 ppm | -0.0010 ppm | 0.0340 ppm | 0.2618 ppm | 0.0000 ppm | 44.1448 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0016 ppm | -0.0012 ppm | 0.0343 ppm | 0.2626 ppm | 0.0000 ppm | 44.4366 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0013 ppm | -0.0009 ppm | 0.0351 ppm | 0.2624 ppm | 0.0000 ppm | 44.0791 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0022 ppm | -0.0009 ppm | 0.0326 ppm | 0.2604 ppm | 0.0000 ppm | 43.9186 ppm |
| Concentration RSD | 283.1 % | 27.0 % | 20.6 % | 3.7 % | 0.5 % | 1,204.0 % | 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 | -0.0003 ppm | -0.0001 ppm | 0.0003 ppm | 0.0243 ppm | 0.0065 ppm | 1.5821 ppm | 0.0160 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0001 ppm | 0.0004 ppm | 0.0245 ppm | 0.0067 ppm | 1.5902 ppm | 0.0161 ppm |
| Concentration per Run 2 | -0.0003 ppm | -0.0002 ppm | 0.0002 ppm | 0.0242 ppm | 0.0059 ppm | 1.5842 ppm | 0.0161 ppm |
| Concentration per Run 3 | -0.0003 ppm | -0.0001 ppm | 0.0004 ppm | 0.0242 ppm | 0.0068 ppm | 1.5718 ppm | 0.0156 ppm |
| Concentration RSD | 14.9 % | 216.4 % | 40.3 % | 0.8 % | 7.1 % | 0.6 % | 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 | 5.3024 ppm | 0.0002 ppm | 0.0068 ppm | 13.7290 ppm | 0.0003 ppm | -0.0005 ppm | 0.0050 ppm |
| Concentration per Run 1 | 5.3479 ppm | 0.0002 ppm | 0.0072 ppm | 13.7357 ppm | 0.0003 ppm | 0.0001 ppm | 0.0054 ppm |
| Concentration per Run 2 | 5.3017 ppm | 0.0002 ppm | 0.0068 ppm | 13.7910 ppm | 0.0001 ppm | -0.0007 ppm | 0.0042 ppm |
| Concentration per Run 3 | 5.2574 ppm | 0.0003 ppm | 0.0065 ppm | 13.6602 ppm | 0.0005 ppm | -0.0009 ppm | 0.0053 ppm |
| Concentration RSD | 0.9 % | 29.2 % | 5.2 % | 0.5 % | 63.1 % | 99.4 % | 13.2 % |

| | 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 | 5.0556 ppm | 0.0025 ppm | 0.7297 ppm | -0.0001 ppm | -0.0006 ppm | 0.0003 ppm |
| Concentration per Run 1 | 0.0009 ppm | 5.0989 ppm | 0.0028 ppm | 0.7332 ppm | -0.0001 ppm | -0.0005 ppm | 0.0003 ppm |
| Concentration per Run 2 | -0.0002 ppm | 5.0687 ppm | 0.0017 ppm | 0.7292 ppm | -0.0002 ppm | -0.0003 ppm | 0.0004 ppm |
| Concentration per Run 3 | 0.0003 ppm | 4.9992 ppm | 0.0032 ppm | 0.7266 ppm | 0.0000 ppm | -0.0009 ppm | 0.0004 ppm |
| Concentration RSD | 175.0 % | 1.0 % | 31.1 % | 0.5 % | 83.9 % | 48.2 % | 20.2 % |

| | 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 | 0.0124 ppm | 96.0924 % | 99.0626 % | 90.2035 % | 95.4425 % | 99.1579 % | 94.4902 % |
| Concentration per Run 1 | 0.0124 ppm | 95.6744 % | 98.7621 % | 89.7355 % | 95.3058 % | 99.4693 % | 94.4617 % |
| Concentration per Run 2 | 0.0127 ppm | 96.0814 % | 98.9803 % | 90.0392 % | 95.7602 % | 98.9146 % | 94.5662 % |
| Concentration per Run 3 | 0.0120 ppm | 96.5214 % | 99.4455 % | 90.8358 % | 95.2615 % | 99.0899 % | 94.4426 % |
| Concentration RSD | 2.6 % | 0.4 % | 0.4 % | 0.6 % | 0.3 % | 0.3 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012440-5 WG2012440
Analysis started at: 12/23/2024 10:26:48 AM
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 | 0.0506 ppm | 2.0414 ppm | 0.1167 ppm | 0.9625 ppm | 2.2361 ppm | 0.0488 ppm | 51.5323 ppm |
| Concentration per Run 1 | 0.0510 ppm | 2.0502 ppm | 0.1179 ppm | 0.9671 ppm | 2.2512 ppm | 0.0492 ppm | 51.7107 ppm |
| Concentration per Run 2 | 0.0509 ppm | 2.0353 ppm | 0.1178 ppm | 0.9689 ppm | 2.2252 ppm | 0.0483 ppm | 51.0157 ppm |
| Concentration per Run 3 | 0.0499 ppm | 2.0386 ppm | 0.1143 ppm | 0.9515 ppm | 2.2320 ppm | 0.0489 ppm | 51.8706 ppm |
| Concentration RSD | 1.2 % | 0.4 % | 1.7 % | 1.0 % | 0.6 % | 1.0 % | 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 | 0.0503 ppm | 0.4806 ppm | 0.1937 ppm | 0.2777 ppm | 0.9638 ppm | 12.9130 ppm | 0.0145 ppm |
| Concentration per Run 1 | 0.0505 ppm | 0.4832 ppm | 0.1945 ppm | 0.2800 ppm | 0.9743 ppm | 12.9810 ppm | 0.0154 ppm |
| Concentration per Run 2 | 0.0506 ppm | 0.4832 ppm | 0.1951 ppm | 0.2778 ppm | 0.9525 ppm | 12.9331 ppm | 0.0143 ppm |
| Concentration per Run 3 | 0.0498 ppm | 0.4753 ppm | 0.1915 ppm | 0.2754 ppm | 0.9647 ppm | 12.8250 ppm | 0.0138 ppm |
| Concentration RSD | 0.9 % | 0.9 % | 1.0 % | 0.8 % | 1.1 % | 0.6 % | 5.5 % |

| | 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 | 14.9897 ppm | 0.4841 ppm | 0.9021 ppm | 24.1216 ppm | 0.4815 ppm | 0.5404 ppm | 0.3846 ppm |
| Concentration per Run 1 | 15.0844 ppm | 0.4871 ppm | 0.8984 ppm | 24.1086 ppm | 0.4832 ppm | 0.5445 ppm | 0.3821 ppm |
| Concentration per Run 2 | 15.0780 ppm | 0.4795 ppm | 0.9094 ppm | 24.1960 ppm | 0.4856 ppm | 0.5403 ppm | 0.3860 ppm |
| Concentration per Run 3 | 14.8067 ppm | 0.4856 ppm | 0.8984 ppm | 24.0603 ppm | 0.4758 ppm | 0.5364 ppm | 0.3857 ppm |
| Concentration RSD | 1.1 % | 0.8 % | 0.7 % | 0.3 % | 1.1 % | 0.7 % | 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 | 0.1167 ppm | 5.5292 ppm | 0.9722 ppm | 1.7157 ppm | 0.9976 ppm | 0.1234 ppm | 0.5134 ppm |
| Concentration per Run 1 | 0.1191 ppm | 5.5676 ppm | 0.9784 ppm | 1.7301 ppm | 1.0037 ppm | 0.1249 ppm | 0.5159 ppm |
| Concentration per Run 2 | 0.1159 ppm | 5.5647 ppm | 0.9803 ppm | 1.7012 ppm | 1.0026 ppm | 0.1227 ppm | 0.5160 ppm |
| Concentration per Run 3 | 0.1150 ppm | 5.4554 ppm | 0.9578 ppm | 1.7159 ppm | 0.9866 ppm | 0.1226 ppm | 0.5084 ppm |
| Concentration RSD | 1.8 % | 1.2 % | 1.3 % | 0.8 % | 1.0 % | 1.1 % | 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 | 0.4947 ppm | 95.1859 % | 99.2962 % | 86.6540 % | 93.3949 % | 98.2415 % | 93.1923 % |
| Concentration per Run 1 | 0.4981 ppm | 94.6733 % | 98.7663 % | 86.2337 % | 93.2687 % | 98.3740 % | 93.0431 % |
| Concentration per Run 2 | 0.4991 ppm | 94.9514 % | 100.1385 % | 86.5585 % | 93.6843 % | 98.3708 % | 93.0977 % |
| Concentration per Run 3 | 0.4869 ppm | 95.9328 % | 98.9840 % | 87.1700 % | 93.2317 % | 97.9797 % | 93.4361 % |
| Concentration RSD | 1.4 % | 0.7 % | 0.7 % | 0.5 % | 0.3 % | 0.2 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012440-6d5 WG2012440
Analysis started at: 12/23/2024 10:31:12 AM
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 | -0.0003 ppm | -0.0045 ppm | -0.0007 ppm | 0.0071 ppm | 0.0517 ppm | 0.0000 ppm | 8.9304 ppm |
| Concentration per Run 1 | -0.0003 ppm | -0.0028 ppm | 0.0003 ppm | 0.0067 ppm | 0.0520 ppm | 0.0000 ppm | 8.8893 ppm |
| Concentration per Run 2 | -0.0005 ppm | -0.0024 ppm | -0.0009 ppm | 0.0068 ppm | 0.0515 ppm | 0.0000 ppm | 8.9343 ppm |
| Concentration per Run 3 | -0.0002 ppm | -0.0084 ppm | -0.0013 ppm | 0.0077 ppm | 0.0517 ppm | 0.0000 ppm | 8.9677 ppm |
| Concentration RSD | 49.0 % | 74.1 % | 127.1 % | 8.3 % | 0.5 % | 562.9 % | 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 | -0.0001 ppm | 0.0000 ppm | 0.0044 ppm | 0.0026 ppm | 0.3184 ppm | 0.0028 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0001 ppm | 0.0001 ppm | 0.0044 ppm | 0.0028 ppm | 0.3222 ppm | 0.0031 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0000 ppm | -0.0001 ppm | 0.0045 ppm | 0.0025 ppm | 0.3079 ppm | 0.0025 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0003 ppm | -0.0001 ppm | 0.0044 ppm | 0.0025 ppm | 0.3251 ppm | 0.0029 ppm |
| Concentration RSD | 57.9 % | 104.1 % | 498.4 % | 1.2 % | 6.3 % | 2.9 % | 11.3 % |

| | 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 | 1.0486 ppm | 0.0001 ppm | 0.0078 ppm | 2.6417 ppm | 0.0001 ppm | 0.0003 ppm | 0.0132 ppm |
| Concentration per Run 1 | 1.0518 ppm | 0.0001 ppm | 0.0076 ppm | 2.6443 ppm | 0.0000 ppm | 0.0003 ppm | 0.0121 ppm |
| Concentration per Run 2 | 1.0553 ppm | 0.0002 ppm | 0.0079 ppm | 2.6202 ppm | 0.0000 ppm | 0.0003 ppm | 0.0136 ppm |
| Concentration per Run 3 | 1.0387 ppm | -0.0001 ppm | 0.0077 ppm | 2.6605 ppm | 0.0002 ppm | 0.0005 ppm | 0.0138 ppm |
| Concentration RSD | 0.8 % | 214.7 % | 1.6 % | 0.8 % | 127.3 % | 30.8 % | 7.0 % |

| | 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 | 0.9631 ppm | 0.0053 ppm | 0.1443 ppm | -0.0001 ppm | -0.0002 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0012 ppm | 0.9662 ppm | 0.0056 ppm | 0.1441 ppm | 0.0001 ppm | -0.0007 ppm | 0.0002 ppm |
| Concentration per Run 2 | 0.0008 ppm | 0.9664 ppm | 0.0058 ppm | 0.1447 ppm | -0.0001 ppm | 0.0003 ppm | 0.0000 ppm |
| Concentration per Run 3 | -0.0006 ppm | 0.9566 ppm | 0.0044 ppm | 0.1441 ppm | -0.0003 ppm | -0.0002 ppm | 0.0001 ppm |
| Concentration RSD | 205.5 % | 0.6 % | 14.2 % | 0.2 % | 208.9 % | 242.5 % | 79.0 % |

| | 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 | 0.0022 ppm | 99.7748 % | 100.0807 % | 97.1015 % | 97.5449 % | 99.0850 % | 97.5345 % |
| Concentration per Run 1 | 0.0022 ppm | 99.2918 % | 100.3443 % | 96.8328 % | 97.5422 % | 99.1307 % | 97.5529 % |
| Concentration per Run 2 | 0.0021 ppm | 99.6120 % | 100.1671 % | 96.9098 % | 97.7309 % | 99.1590 % | 97.7166 % |
| Concentration per Run 3 | 0.0023 ppm | 100.4205 % | 99.7308 % | 97.5619 % | 97.3617 % | 98.9654 % | 97.3339 % |
| Concentration RSD | 4.5 % | 0.6 % | 0.3 % | 0.4 % | 0.2 % | 0.1 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 10:35:37 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 | 0.4858 ppm | 0.4953 ppm | 0.4726 ppm | 0.4463 ppm | 0.5019 ppm | 0.4930 ppm | 0.4875 ppm |
| Concentration per Run 1 | 0.4882 ppm | 0.4992 ppm | 0.4702 ppm | 0.4458 ppm | 0.5003 ppm | 0.4946 ppm | 0.4938 ppm |
| Concentration per Run 2 | 0.4864 ppm | 0.4912 ppm | 0.4702 ppm | 0.4460 ppm | 0.5033 ppm | 0.4923 ppm | 0.4822 ppm |
| Concentration per Run 3 | 0.4829 ppm | 0.4954 ppm | 0.4773 ppm | 0.4472 ppm | 0.5021 ppm | 0.4922 ppm | 0.4866 ppm |
| Recovery Percentage 1 | 97.163 % | 99.056 % | 94.514 % | 89.263 % | 100.386 % | 98.600 % | 97.507 % |
| Concentration RSD | 0.6 % | 0.8 % | 0.9 % | 0.2 % | 0.3 % | 0.3 % | 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 | 0.4773 ppm | 0.4899 ppm | 0.4757 ppm | 0.4878 ppm | 0.4866 ppm | 5.4487 ppm | 0.5297 ppm |
| Concentration per Run 1 | 0.4776 ppm | 0.4904 ppm | 0.4766 ppm | 0.4880 ppm | 0.4882 ppm | 5.4320 ppm | 0.5242 ppm |
| Concentration per Run 2 | 0.4802 ppm | 0.4903 ppm | 0.4772 ppm | 0.4874 ppm | 0.4888 ppm | 5.4359 ppm | 0.5300 ppm |
| Concentration per Run 3 | 0.4742 ppm | 0.4888 ppm | 0.4732 ppm | 0.4880 ppm | 0.4830 ppm | 5.4783 ppm | 0.5348 ppm |
| Recovery Percentage 1 | 95.464 % | 97.971 % | 95.130 % | 97.567 % | 97.327 % | 108.975 % | 105.934 % |
| Concentration RSD | 0.6 % | 0.2 % | 0.5 % | 0.1 % | 0.7 % | 0.5 % | 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 | 0.4778 ppm | 0.4811 ppm | 0.4783 ppm | 10.6842 ppm | 0.4873 ppm | 0.4871 ppm | 0.4968 ppm |
| Concentration per Run 1 | 0.4809 ppm | 0.4827 ppm | 0.4739 ppm | 10.6182 ppm | 0.4865 ppm | 0.4874 ppm | 0.4984 ppm |
| Concentration per Run 2 | 0.4798 ppm | 0.4803 ppm | 0.4818 ppm | 10.5933 ppm | 0.4891 ppm | 0.4857 ppm | 0.4970 ppm |
| Concentration per Run 3 | 0.4726 ppm | 0.4801 ppm | 0.4792 ppm | 10.8411 ppm | 0.4864 ppm | 0.4880 ppm | 0.4950 ppm |
| Recovery Percentage 1 | 95.557 % | 96.213 % | 95.657 % | 106.842 % | 97.465 % | 97.415 % | 99.361 % |
| Concentration RSD | 0.9 % | 0.3 % | 0.8 % | 1.3 % | 0.3 % | 0.2 % | 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 | 0.4856 ppm | 5.1634 ppm | 0.5000 ppm | 0.5351 ppm | 0.4736 ppm | 0.4942 ppm | 0.4883 ppm |
| Concentration per Run 1 | 0.4837 ppm | 5.1627 ppm | 0.5010 ppm | 0.5352 ppm | 0.4742 ppm | 0.4923 ppm | 0.4895 ppm |
| Concentration per Run 2 | 0.4850 ppm | 5.1695 ppm | 0.5027 ppm | 0.5360 ppm | 0.4753 ppm | 0.4910 ppm | 0.4883 ppm |
| Concentration per Run 3 | 0.4883 ppm | 5.1582 ppm | 0.4963 ppm | 0.5341 ppm | 0.4712 ppm | 0.4994 ppm | 0.4872 ppm |
| Recovery Percentage 1 | 97.126 % | 98.351 % | 100.005 % | 107.024 % | 94.717 % | 98.847 % | 97.669 % |
| Concentration RSD | 0.5 % | 0.1 % | 0.7 % | 0.2 % | 0.4 % | 0.9 % | 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 | 0.4761 ppm | 101.8722 % | 100.9456 % | 96.2883 % | 96.3795 % | 98.7458 % | 96.5564 % |
| Concentration per Run 1 | 0.4755 ppm | 101.7563 % | 100.5034 % | 96.4597 % | 96.5186 % | 98.6942 % | 96.8305 % |
| Concentration per Run 2 | 0.4802 ppm | 101.9505 % | 101.1962 % | 95.8018 % | 96.4330 % | 98.9362 % | 95.9892 % |
| Concentration per Run 3 | 0.4727 ppm | 101.9097 % | 101.1371 % | 96.6036 % | 96.1871 % | 98.6068 % | 96.8494 % |
| Recovery Percentage 1 | 95.226 % | | | | | | |
| Concentration RSD | 0.8 % | 0.1 % | 0.4 % | 0.4 % | 0.2 % | 0.2 % | 0.5 % |

# iCAP Pro Trace 8 Data report
12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 10:40:01 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 | -0.0044 ppm | 0.0001 ppm | 0.0014 ppm | 0.0000 ppm | 0.0000 ppm | 0.0011 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0052 ppm | 0.0008 ppm | 0.0018 ppm | 0.0000 ppm | 0.0000 ppm | 0.0005 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0048 ppm | -0.0008 ppm | 0.0008 ppm | 0.0000 ppm | 0.0000 ppm | 0.0013 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0032 ppm | 0.0002 ppm | 0.0015 ppm | 0.0000 ppm | 0.0000 ppm | 0.0016 ppm |
| Recovery Percentage 1 | -0.174 % | -4.375 % | 1.497 % | 4.600 % | 0.084 % | 0.464 % | 1.122 % |
| Concentration RSD | 300.8 % | 23.6 % | 1,094.2 % | 34.3 % | 449.1 % | 56.1 % | 49.9 % |

| | 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 | 0.0000 ppm | -0.0003 ppm | 0.0009 ppm | 0.0190 ppm | -0.0002 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0003 ppm | 0.0000 ppm | -0.0002 ppm | 0.0006 ppm | 0.0136 ppm | 0.0001 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0003 ppm | 0.0001 ppm | -0.0002 ppm | 0.0010 ppm | 0.0148 ppm | -0.0001 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0002 ppm | -0.0002 ppm | -0.0004 ppm | 0.0010 ppm | 0.0286 ppm | -0.0006 ppm |
| Recovery Percentage 1 | 0.443 % | 2.434 % | -0.329 % | -2.777 % | 1.752 % | 0.760 % | -2.388 % |
| Concentration RSD | 252.1 % | 33.3 % | 528.3 % | 46.5 % | 24.6 % | 44.0 % | 152.6 % |

| | 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 | -0.0011 ppm | 0.0001 ppm | 0.0026 ppm | 0.0038 ppm | -0.0002 ppm | -0.0001 ppm | 0.0032 ppm |
| Concentration per Run 1 | -0.0024 ppm | 0.0000 ppm | 0.0027 ppm | 0.0028 ppm | -0.0006 ppm | 0.0005 ppm | 0.0033 ppm |
| Concentration per Run 2 | -0.0018 ppm | 0.0001 ppm | 0.0025 ppm | 0.0041 ppm | 0.0000 ppm | -0.0005 ppm | 0.0033 ppm |
| Concentration per Run 3 | 0.0008 ppm | 0.0001 ppm | 0.0025 ppm | 0.0043 ppm | 0.0001 ppm | -0.0003 ppm | 0.0031 ppm |
| Recovery Percentage 1 | -1.125 % | 0.796 % | 5.133 % | 0.188 % | -0.636 % | -1.448 % | 6.418 % |
| Concentration RSD | 147.7 % | 61.3 % | 4.8 % | 22.3 % | 237.6 % | 365.7 % | 3.2 % |

| | 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 | 0.0001 ppm | 0.0001 ppm | 0.0009 ppm | 0.0001 ppm | 0.0000 ppm | -0.0005 ppm | 0.0000 ppm |
| Concentration per Run 1 | 0.0010 ppm | 0.0001 ppm | 0.0009 ppm | 0.0001 ppm | -0.0001 ppm | -0.0005 ppm | 0.0001 ppm |
| Concentration per Run 2 | 0.0004 ppm | 0.0002 ppm | 0.0011 ppm | 0.0001 ppm | 0.0001 ppm | -0.0005 ppm | -0.0002 ppm |
| Concentration per Run 3 | -0.0010 ppm | 0.0000 ppm | 0.0006 ppm | 0.0001 ppm | 0.0000 ppm | -0.0004 ppm | 0.0000 ppm |
| Recovery Percentage 1 | 1.113 % | 0.012 % | 1.725 % | 0.607 % | 0.083 % | -2.344 % | -0.004 % |
| Concentration RSD | 888.2 % | 151.0 % | 32.3 % | 4.2 % | 1,182.0 % | 7.3 % | 32,198.2 % |

| | 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 | -0.0002 ppm | 98.8442 % | 99.6878 % | 96.9687 % | 97.3053 % | 99.3354 % | 97.8962 % |
| Concentration per Run 1 | -0.0003 ppm | 98.2442 % | 99.7782 % | 97.3242 % | 97.1923 % | 99.4925 % | 98.2732 % |
| Concentration per Run 2 | 0.0000 ppm | 99.6392 % | 100.0788 % | 96.7542 % | 98.1113 % | 99.6849 % | 97.9424 % |
| Concentration per Run 3 | -0.0002 ppm | 98.6493 % | 99.2063 % | 96.8276 % | 96.6122 % | 98.8287 % | 97.4731 % |
| Recovery Percentage 1 | -3.203 % | | | | | | |
| Concentration RSD | 67.3 % | 0.7 % | 0.4 % | 0.3 % | 0.8 % | 0.5 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 10:45:39 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 | 0.4903 ppm | 0.4987 ppm | 0.4821 ppm | 0.4516 ppm | 0.5045 ppm | 0.5017 ppm | 0.4927 ppm |
| Concentration per Run 1 | 0.4919 ppm | 0.4991 ppm | 0.4814 ppm | 0.4514 ppm | 0.5029 ppm | 0.5015 ppm | 0.4906 ppm |
| Concentration per Run 2 | 0.4902 ppm | 0.4993 ppm | 0.4827 ppm | 0.4524 ppm | 0.5076 ppm | 0.5017 ppm | 0.4937 ppm |
| Concentration per Run 3 | 0.4888 ppm | 0.4977 ppm | 0.4821 ppm | 0.4511 ppm | 0.5029 ppm | 0.5018 ppm | 0.4938 ppm |
| Recovery Percentage 1 | 98.055 % | 99.747 % | 96.411 % | 90.327 % | 100.892 % | 100.334 % | 98.544 % |
| Concentration RSD | 0.3 % | 0.2 % | 0.1 % | 0.1 % | 0.5 % | 0.0 % | 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 | 0.4864 ppm | 0.4997 ppm | 0.4837 ppm | 0.4954 ppm | 0.4964 ppm | 5.4774 ppm | 0.5232 ppm |
| Concentration per Run 1 | 0.4892 ppm | 0.5018 ppm | 0.4855 ppm | 0.4964 ppm | 0.4970 ppm | 5.4922 ppm | 0.5222 ppm |
| Concentration per Run 2 | 0.4874 ppm | 0.5001 ppm | 0.4841 ppm | 0.4954 ppm | 0.4962 ppm | 5.5051 ppm | 0.5258 ppm |
| Concentration per Run 3 | 0.4825 ppm | 0.4971 ppm | 0.4816 ppm | 0.4944 ppm | 0.4960 ppm | 5.4349 ppm | 0.5216 ppm |
| Recovery Percentage 1 | 97.273 % | 99.936 % | 96.749 % | 99.074 % | 99.278 % | 109.547 % | 104.637 % |
| Concentration RSD | 0.7 % | 0.5 % | 0.4 % | 0.2 % | 0.1 % | 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 | 0.4863 ppm | 0.4895 ppm | 0.4831 ppm | 10.7262 ppm | 0.4962 ppm | 0.4945 ppm | 0.4960 ppm |
| Concentration per Run 1 | 0.4868 ppm | 0.4890 ppm | 0.4811 ppm | 10.7205 ppm | 0.4988 ppm | 0.4941 ppm | 0.4973 ppm |
| Concentration per Run 2 | 0.4871 ppm | 0.4884 ppm | 0.4844 ppm | 10.7559 ppm | 0.4970 ppm | 0.4941 ppm | 0.4985 ppm |
| Concentration per Run 3 | 0.4851 ppm | 0.4910 ppm | 0.4837 ppm | 10.7023 ppm | 0.4928 ppm | 0.4952 ppm | 0.4922 ppm |
| Recovery Percentage 1 | 97.266 % | 97.894 % | 96.611 % | 107.262 % | 99.237 % | 98.901 % | 99.203 % |
| Concentration RSD | 0.2 % | 0.3 % | 0.4 % | 0.3 % | 0.6 % | 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 | 0.4927 ppm | 5.1847 ppm | 0.5003 ppm | 0.5140 ppm | 0.4833 ppm | 0.5030 ppm | 0.4974 ppm |
| Concentration per Run 1 | 0.4925 ppm | 5.1884 ppm | 0.5045 ppm | 0.5121 ppm | 0.4833 ppm | 0.5008 ppm | 0.4997 ppm |
| Concentration per Run 2 | 0.4930 ppm | 5.1933 ppm | 0.5018 ppm | 0.5169 ppm | 0.4839 ppm | 0.5046 ppm | 0.4968 ppm |
| Concentration per Run 3 | 0.4925 ppm | 5.1724 ppm | 0.4946 ppm | 0.5130 ppm | 0.4826 ppm | 0.5036 ppm | 0.4957 ppm |
| Recovery Percentage 1 | 98.535 % | 98.757 % | 100.062 % | 102.800 % | 96.656 % | 100.600 % | 99.473 % |
| Concentration RSD | 0.1 % | 0.2 % | 1.0 % | 0.5 % | 0.1 % | 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 | 0.4837 ppm | 101.4895 % | 100.5956 % | 96.4197 % | 96.2993 % | 98.3404 % | 96.7091 % |
| Concentration per Run 1 | 0.4889 ppm | 101.2371 % | 100.2723 % | 96.4104 % | 96.3491 % | 97.6722 % | 96.7421 % |
| Concentration per Run 2 | 0.4847 ppm | 101.4505 % | 100.9605 % | 96.2563 % | 96.0430 % | 98.9414 % | 96.4723 % |
| Concentration per Run 3 | 0.4776 ppm | 101.7811 % | 100.5540 % | 96.5925 % | 96.5058 % | 98.4074 % | 96.9129 % |
| Recovery Percentage 1 | 96.743 % | | | | | | |
| Concentration RSD | 1.2 % | 0.3 % | 0.3 % | 0.2 % | 0.2 % | 0.6 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 10:50:07 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 | -0.0052 ppm | -0.0001 ppm | 0.0011 ppm | 0.0000 ppm | 0.0001 ppm | 0.0013 ppm |
| Concentration per Run 1 | -0.0003 ppm | -0.0052 ppm | -0.0004 ppm | 0.0013 ppm | 0.0000 ppm | 0.0000 ppm | 0.0019 ppm |
| Concentration per Run 2 | -0.0002 ppm | -0.0070 ppm | -0.0001 ppm | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | 0.0019 ppm |
| Concentration per Run 3 | -0.0002 ppm | -0.0036 ppm | 0.0003 ppm | 0.0020 ppm | 0.0000 ppm | 0.0001 ppm | 0.0002 ppm |
| Recovery Percentage 1 | -4.180 % | -5.241 % | -1.715 % | 3.668 % | 0.288 % | 1.041 % | 1.323 % |
| Concentration RSD | 20.4 % | 32.3 % | 395.8 % | 90.0 % | 88.4 % | 9.7 % | 72.7 % |

| | 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 | -0.0001 ppm | -0.0003 ppm | 0.0005 ppm | 0.0158 ppm | -0.0004 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0002 ppm | -0.0001 ppm | -0.0002 ppm | 0.0002 ppm | 0.0211 ppm | -0.0009 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0001 ppm | -0.0002 ppm | -0.0004 ppm | 0.0007 ppm | 0.0053 ppm | 0.0000 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0001 ppm | -0.0001 ppm | -0.0003 ppm | 0.0006 ppm | 0.0211 ppm | -0.0004 ppm |
| Recovery Percentage 1 | 0.954 % | -0.597 % | -1.036 % | -2.807 % | 0.959 % | 0.633 % | -4.387 % |
| Concentration RSD | 191.3 % | 257.2 % | 49.4 % | 38.8 % | 48.3 % | 57.9 % | 94.3 % |

| | 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 | -0.0019 ppm | 0.0001 ppm | 0.0023 ppm | 0.0031 ppm | -0.0003 ppm | -0.0001 ppm | 0.0028 ppm |
| Concentration per Run 1 | -0.0031 ppm | 0.0002 ppm | 0.0024 ppm | 0.0036 ppm | -0.0005 ppm | -0.0006 ppm | 0.0032 ppm |
| Concentration per Run 2 | -0.0008 ppm | 0.0001 ppm | 0.0025 ppm | 0.0037 ppm | -0.0002 ppm | 0.0000 ppm | 0.0023 ppm |
| Concentration per Run 3 | -0.0017 ppm | 0.0001 ppm | 0.0021 ppm | 0.0021 ppm | -0.0003 ppm | 0.0004 ppm | 0.0028 ppm |
| Recovery Percentage 1 | -1.873 % | 1.365 % | 4.662 % | 0.157 % | -1.367 % | -0.758 % | 5.553 % |
| Concentration RSD | 61.8 % | 30.3 % | 8.6 % | 28.0 % | 51.5 % | 705.1 % | 16.6 % |

| | 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 | 0.0000 ppm | 0.0005 ppm | 0.0004 ppm | 0.0001 ppm | -0.0002 ppm | -0.0003 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0009 ppm | 0.0011 ppm | 0.0008 ppm | 0.0001 ppm | -0.0002 ppm | 0.0000 ppm | 0.0000 ppm |
| Concentration per Run 2 | 0.0014 ppm | -0.0001 ppm | 0.0004 ppm | 0.0000 ppm | -0.0002 ppm | -0.0009 ppm | 0.0001 ppm |
| Concentration per Run 3 | -0.0024 ppm | 0.0005 ppm | 0.0000 ppm | 0.0001 ppm | -0.0002 ppm | 0.0000 ppm | 0.0002 ppm |
| Recovery Percentage 1 | -0.276 % | 0.105 % | 0.840 % | 0.510 % | -1.875 % | -1.585 % | 0.661 % |
| Concentration RSD | 7,509.4 % | 115.7 % | 103.1 % | 3.5 % | 16.2 % | 171.5 % | 144.5 % |

| | 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 | 0.0000 ppm | 99.3202 % | 99.2350 % | 97.2439 % | 98.2825 % | 99.1284 % | 97.8389 % |
| Concentration per Run 1 | 0.0000 ppm | 98.5083 % | 99.0713 % | 96.6450 % | 97.5503 % | 98.9591 % | 97.6930 % |
| Concentration per Run 2 | -0.0002 ppm | 99.6007 % | 99.4199 % | 97.2935 % | 99.0984 % | 99.2585 % | 98.2670 % |
| Concentration per Run 3 | 0.0000 ppm | 99.8515 % | 99.2137 % | 97.7931 % | 98.1987 % | 99.1675 % | 97.5568 % |
| Recovery Percentage 1 | -0.948 % | | | | | | |
| Concentration RSD | 228.9 % | 0.7 % | 0.2 % | 0.6 % | 0.8 % | 0.2 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473391-01 WG2012440
Analysis started at: 12/23/2024 10:54:32 AM
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 | -0.0002 ppm | 0.2708 ppm | -0.0014 ppm | 0.0478 ppm | 0.0389 ppm | 0.0000 ppm | 27.9209 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.2698 ppm | -0.0006 ppm | 0.0480 ppm | 0.0391 ppm | 0.0000 ppm | 28.0143 ppm |
| Concentration per Run 2 | -0.0004 ppm | 0.2732 ppm | -0.0011 ppm | 0.0476 ppm | 0.0389 ppm | 0.0000 ppm | 27.8562 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.2693 ppm | -0.0027 ppm | 0.0478 ppm | 0.0389 ppm | 0.0000 ppm | 27.8920 ppm |
| Concentration RSD | 40.9 % | 0.8 % | 75.9 % | 0.4 % | 0.3 % | 162.4 % | 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 | 0.0004 ppm | -0.0001 ppm | 0.0015 ppm | 0.0769 ppm | 4.0415 ppm | 0.0107 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0005 ppm | -0.0005 ppm | 0.0017 ppm | 0.0756 ppm | 4.0853 ppm | 0.0111 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.0003 ppm | -0.0001 ppm | 0.0012 ppm | 0.0774 ppm | 4.0146 ppm | 0.0103 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0005 ppm | 0.0003 ppm | 0.0016 ppm | 0.0778 ppm | 4.0246 ppm | 0.0106 ppm |
| Concentration RSD | 71.3 % | 30.9 % | 556.7 % | 14.7 % | 1.5 % | 0.9 % | 3.7 % |

| | 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 | 8.1314 ppm | 0.0030 ppm | 0.0242 ppm | 1,992.6833 [SIC 500] | 0.0002 ppm | -0.0003 ppm | 0.0008 ppm |
| Concentration per Run 1 | 8.1731 ppm | 0.0031 ppm | 0.0244 ppm | 1,997.0242 ppm | 0.0003 ppm | 0.0004 ppm | -0.0019 ppm |
| Concentration per Run 2 | 8.1121 ppm | 0.0030 ppm | 0.0242 ppm | 1,991.2128 ppm | 0.0001 ppm | -0.0005 ppm | 0.0019 ppm |
| Concentration per Run 3 | 8.1090 ppm | 0.0030 ppm | 0.0241 ppm | 1,989.8129 ppm | 0.0001 ppm | -0.0008 ppm | 0.0024 ppm |
| Concentration RSD | 0.4 % | 2.4 % | 0.7 % | 0.2 % | 53.2 % | 225.7 % | 298.5 % |

| | 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 | -0.0010 ppm | 0.9881 ppm | -0.0001 ppm | 0.1417 ppm | 0.0004 ppm | -0.0008 ppm | 0.0002 ppm |
| Concentration per Run 1 | -0.0016 ppm | 1.0017 ppm | 0.0000 ppm | 0.1420 ppm | 0.0005 ppm | -0.0013 ppm | 0.0003 ppm |
| Concentration per Run 2 | -0.0013 ppm | 0.9883 ppm | -0.0001 ppm | 0.1413 ppm | 0.0005 ppm | -0.0012 ppm | 0.0003 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.9744 ppm | 0.0000 ppm | 0.1418 ppm | 0.0003 ppm | 0.0000 ppm | 0.0000 ppm |
| Concentration RSD | 88.7 % | 1.4 % | 107.8 % | 0.2 % | 20.9 % | 83.2 % | 100.0 % |

| | 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 | 0.0904 ppm | 74.2448 % | 88.0581 % | 65.2041 % | 73.6497 % | 88.0004 % | 78.1136 % |
| Concentration per Run 1 | 0.0910 ppm | 73.6468 % | 87.5598 % | 65.1402 % | 73.5592 % | 87.6977 % | 78.3740 % |
| Concentration per Run 2 | 0.0903 ppm | 74.3361 % | 88.1963 % | 65.3079 % | 73.7634 % | 87.9779 % | 78.0046 % |
| Concentration per Run 3 | 0.0898 ppm | 74.7516 % | 88.4181 % | 65.1641 % | 73.6264 % | 88.3256 % | 77.9623 % |
| Concentration RSD | 0.7 % | 0.8 % | 0.5 % | 0.1 % | 0.1 % | 0.4 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473393-01 WG2012440
Analysis started at: 12/23/2024 10:58:55 AM
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 | 0.0000 ppm | 0.0194 ppm | 0.0002 ppm | 0.1154 ppm | 0.0801 ppm | 0.0000 ppm | 34.4304 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0185 ppm | -0.0001 ppm | 0.1150 ppm | 0.0802 ppm | 0.0000 ppm | 34.5230 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0199 ppm | 0.0003 ppm | 0.1162 ppm | 0.0803 ppm | 0.0000 ppm | 34.5150 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0198 ppm | 0.0004 ppm | 0.1151 ppm | 0.0798 ppm | 0.0000 ppm | 34.2532 ppm |
| Concentration RSD | 572.2 % | 4.0 % | 131.6 % | 0.6 % | 0.4 % | 29.0 % | 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 | -0.0001 ppm | 0.0004 ppm | 0.0043 ppm | 0.0044 ppm | 1.7665 ppm | 0.0022 ppm |
| Concentration per Run 1 | -0.0003 ppm | -0.0002 ppm | 0.0005 ppm | 0.0043 ppm | 0.0042 ppm | 1.7662 ppm | 0.0023 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0000 ppm | 0.0002 ppm | 0.0045 ppm | 0.0049 ppm | 1.7749 ppm | 0.0022 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0000 ppm | 0.0004 ppm | 0.0043 ppm | 0.0042 ppm | 1.7583 ppm | 0.0022 ppm |
| Concentration RSD | 37.8 % | 180.6 % | 51.7 % | 2.8 % | 9.3 % | 0.5 % | 3.2 % |

| | 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 | 9.0068 ppm | 0.0007 ppm | 0.0038 ppm | 17.9191 ppm | 0.0006 ppm | -0.0003 ppm | 0.0008 ppm |
| Concentration per Run 1 | 9.0616 ppm | 0.0007 ppm | 0.0035 ppm | 17.8671 ppm | 0.0009 ppm | 0.0002 ppm | 0.0016 ppm |
| Concentration per Run 2 | 9.0209 ppm | 0.0006 ppm | 0.0040 ppm | 17.9814 ppm | 0.0001 ppm | 0.0002 ppm | 0.0012 ppm |
| Concentration per Run 3 | 8.9380 ppm | 0.0007 ppm | 0.0040 ppm | 17.9088 ppm | 0.0008 ppm | -0.0014 ppm | -0.0004 ppm |
| Concentration RSD | 0.7 % | 7.3 % | 7.9 % | 0.3 % | 74.9 % | 266.2 % | 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 | 0.0001 ppm | 1.2581 ppm | 0.0003 ppm | 0.1820 ppm | -0.0002 ppm | -0.0015 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0006 ppm | 1.2645 ppm | 0.0007 ppm | 0.1821 ppm | -0.0003 ppm | -0.0015 ppm | 0.0000 ppm |
| Concentration per Run 2 | -0.0017 ppm | 1.2588 ppm | 0.0000 ppm | 0.1819 ppm | -0.0001 ppm | -0.0014 ppm | 0.0001 ppm |
| Concentration per Run 3 | 0.0015 ppm | 1.2510 ppm | 0.0001 ppm | 0.1821 ppm | -0.0002 ppm | -0.0017 ppm | 0.0002 ppm |
| Concentration RSD | 1,269.8 % | 0.5 % | 142.0 % | 0.1 % | 49.0 % | 9.0 % | 74.6 % |

| | 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 | 0.0055 ppm | 96.6568 % | 101.0484 % | 90.5426 % | 94.9581 % | 100.3661 % | 93.7209 % |
| Concentration per Run 1 | 0.0057 ppm | 95.7609 % | 100.4745 % | 90.0523 % | 94.5441 % | 99.8808 % | 93.7379 % |
| Concentration per Run 2 | 0.0055 ppm | 96.8490 % | 100.8483 % | 90.6196 % | 95.0365 % | 100.4926 % | 93.8049 % |
| Concentration per Run 3 | 0.0054 ppm | 97.3606 % | 101.8226 % | 90.9560 % | 95.2936 % | 100.7249 % | 93.6198 % |
| Concentration RSD | 3.1 % | 0.8 % | 0.7 % | 0.5 % | 0.4 % | 0.4 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473927-02 WG2012440
Analysis started at: 12/23/2024 11:03:19 AM
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 | 0.0000 ppm | -0.0033 ppm | 0.0016 ppm | 0.0625 ppm | 0.3717 ppm | 0.0000 ppm | 37.0429 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0068 ppm | 0.0007 ppm | 0.0630 ppm | 0.3731 ppm | 0.0000 ppm | 36.9622 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0009 ppm | 0.0015 ppm | 0.0621 ppm | 0.3725 ppm | 0.0000 ppm | 37.1455 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0022 ppm | 0.0027 ppm | 0.0623 ppm | 0.3695 ppm | 0.0000 ppm | 37.0210 ppm |
| Concentration RSD | 85.9 % | 94.9 % | 62.3 % | 0.7 % | 0.5 % | 270.8 % | 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 | -0.0003 ppm | -0.0002 ppm | 0.0001 ppm | 0.0053 ppm | 0.0098 ppm | 1.9722 ppm | 0.0366 ppm |
| Concentration per Run 1 | -0.0004 ppm | -0.0001 ppm | 0.0000 ppm | 0.0054 ppm | 0.0100 ppm | 1.9894 ppm | 0.0375 ppm |
| Concentration per Run 2 | -0.0003 ppm | -0.0004 ppm | 0.0001 ppm | 0.0053 ppm | 0.0088 ppm | 1.9672 ppm | 0.0366 ppm |
| Concentration per Run 3 | -0.0002 ppm | -0.0001 ppm | 0.0001 ppm | 0.0051 ppm | 0.0104 ppm | 1.9600 ppm | 0.0357 ppm |
| Concentration RSD | 26.9 % | 78.8 % | 64.6 % | 2.5 % | 8.4 % | 0.8 % | 2.4 % |

| | 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 | 4.9932 ppm | 0.0009 ppm | 0.0019 ppm | 31.9092 ppm | -0.0006 ppm | -0.0004 ppm | 0.0009 ppm |
| Concentration per Run 1 | 5.0414 ppm | 0.0010 ppm | 0.0021 ppm | 32.0666 ppm | -0.0001 ppm | -0.0010 ppm | 0.0006 ppm |
| Concentration per Run 2 | 4.9641 ppm | 0.0009 ppm | 0.0016 ppm | 31.9063 ppm | -0.0006 ppm | -0.0007 ppm | 0.0024 ppm |
| Concentration per Run 3 | 4.9740 ppm | 0.0009 ppm | 0.0019 ppm | 31.7546 ppm | -0.0010 ppm | 0.0006 ppm | -0.0002 ppm |
| Concentration RSD | 0.8 % | 5.2 % | 14.7 % | 0.5 % | 76.3 % | 241.0 % | 145.3 % |

| | 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 | -0.0013 ppm | 5.0176 ppm | -0.0008 ppm | 1.0805 ppm | -0.0003 ppm | 0.0001 ppm | 0.0002 ppm |
| Concentration per Run 1 | -0.0007 ppm | 5.0611 ppm | -0.0008 ppm | 1.0831 ppm | -0.0004 ppm | -0.0003 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0014 ppm | 5.0194 ppm | -0.0002 ppm | 1.0823 ppm | -0.0003 ppm | 0.0007 ppm | 0.0002 ppm |
| Concentration per Run 3 | -0.0020 ppm | 4.9722 ppm | -0.0013 ppm | 1.0759 ppm | -0.0004 ppm | -0.0001 ppm | 0.0002 ppm |
| Concentration RSD | 48.1 % | 0.9 % | 73.2 % | 0.4 % | 5.1 % | 427.6 % | 40.5 % |

| | 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 | 0.0049 ppm | 94.8709 % | 98.3647 % | 88.7941 % | 94.4070 % | 98.2542 % | 93.6858 % |
| Concentration per Run 1 | 0.0049 ppm | 94.2995 % | 98.4619 % | 88.8779 % | 94.4255 % | 98.4774 % | 94.1052 % |
| Concentration per Run 2 | 0.0049 ppm | 95.2328 % | 97.7842 % | 88.3185 % | 94.6731 % | 97.5917 % | 93.4623 % |
| Concentration per Run 3 | 0.0048 ppm | 95.0805 % | 98.8480 % | 89.1860 % | 94.1223 % | 98.6936 % | 93.4899 % |
| Concentration RSD | 0.9 % | 0.5 % | 0.5 % | 0.5 % | 0.3 % | 0.6 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474052-01 WG2012440
Analysis started at: 12/23/2024 11:07:42 AM
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 | -0.0002 ppm | 0.1098 ppm | 0.0002 ppm | 0.0824 ppm | 0.0425 ppm | 0.0000 ppm | 65.9007 ppm |
| Concentration per Run 1 | -0.0004 ppm | 0.1093 ppm | 0.0003 ppm | 0.0819 ppm | 0.0427 ppm | 0.0000 ppm | 66.1628 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.1106 ppm | 0.0007 ppm | 0.0828 ppm | 0.0425 ppm | 0.0000 ppm | 65.6836 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.1096 ppm | -0.0002 ppm | 0.0826 ppm | 0.0425 ppm | 0.0000 ppm | 65.8556 ppm |
| Concentration RSD | 66.4 % | 0.6 % | 187.2 % | 0.6 % | 0.3 % | 1,950.0 % | 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 | -0.0005 ppm | 0.0003 ppm | 0.0001 ppm | 0.0116 ppm | 0.0836 ppm | 19.2528 ppm | 0.0227 ppm |
| Concentration per Run 1 | -0.0005 ppm | 0.0006 ppm | 0.0000 ppm | 0.0116 ppm | 0.0842 ppm | 19.3228 ppm | 0.0234 ppm |
| Concentration per Run 2 | -0.0004 ppm | 0.0004 ppm | 0.0001 ppm | 0.0118 ppm | 0.0837 ppm | 19.3168 ppm | 0.0211 ppm |
| Concentration per Run 3 | -0.0006 ppm | 0.0000 ppm | 0.0002 ppm | 0.0115 ppm | 0.0828 ppm | 19.1188 ppm | 0.0237 ppm |
| Concentration RSD | 15.5 % | 87.9 % | 77.4 % | 1.1 % | 0.9 % | 0.6 % | 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 | 15.4229 ppm | 0.0042 ppm | 0.5284 ppm | 2,718.4948 [SIC 500] | 0.0018 ppm | 0.0006 ppm | 0.0039 ppm |
| Concentration per Run 1 | 15.4645 ppm | 0.0043 ppm | 0.5283 ppm | 2,713.4392 ppm | 0.0021 ppm | 0.0005 ppm | 0.0024 ppm |
| Concentration per Run 2 | 15.5144 ppm | 0.0042 ppm | 0.5288 ppm | 2,740.7907 ppm | 0.0018 ppm | 0.0011 ppm | 0.0040 ppm |
| Concentration per Run 3 | 15.2898 ppm | 0.0041 ppm | 0.5280 ppm | 2,701.2545 ppm | 0.0016 ppm | 0.0003 ppm | 0.0053 ppm |
| Concentration RSD | 0.8 % | 2.0 % | 0.1 % | 0.7 % | 14.7 % | 71.6 % | 37.7 % |

| | 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 | 0.0015 ppm | 1.6848 ppm | -0.0002 ppm | 0.3469 ppm | -0.0002 ppm | 0.0000 ppm | 0.0006 ppm |
| Concentration per Run 1 | -0.0005 ppm | 1.7008 ppm | -0.0004 ppm | 0.3478 ppm | -0.0002 ppm | -0.0008 ppm | 0.0006 ppm |
| Concentration per Run 2 | 0.0020 ppm | 1.6877 ppm | 0.0006 ppm | 0.3476 ppm | -0.0004 ppm | 0.0006 ppm | 0.0008 ppm |
| Concentration per Run 3 | 0.0031 ppm | 1.6658 ppm | -0.0007 ppm | 0.3453 ppm | -0.0002 ppm | 0.0001 ppm | 0.0004 ppm |
| Concentration RSD | 118.6 % | 1.1 % | 370.2 % | 0.4 % | 44.3 % | 2,974.0 % | 40.8 % |

| | 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 | 0.0399 ppm | 69.4437 % | 85.3090 % | 59.4808 % | 68.2108 % | 84.3779 % | 71.8675 % |
| Concentration per Run 1 | 0.0398 ppm | 69.1005 % | 85.1656 % | 58.9845 % | 68.2136 % | 84.3571 % | 71.8995 % |
| Concentration per Run 2 | 0.0401 ppm | 69.4271 % | 85.5476 % | 59.7554 % | 68.2027 % | 84.5541 % | 72.2183 % |
| Concentration per Run 3 | 0.0398 ppm | 69.8034 % | 85.2138 % | 59.7026 % | 68.2161 % | 84.2226 % | 71.4847 % |
| Concentration RSD | 0.4 % | 0.5 % | 0.2 % | 0.7 % | 0.0 % | 0.2 % | 0.5 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474281-09 WG2012440
Analysis started at: 12/23/2024 11:12:06 AM
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 | 0.0151 ppm | 0.0009 ppm | 0.0085 ppm | 0.0071 ppm | 0.0000 ppm | 18.0432 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0141 ppm | 0.0005 ppm | 0.0088 ppm | 0.0070 ppm | 0.0000 ppm | 17.9723 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0177 ppm | 0.0011 ppm | 0.0087 ppm | 0.0071 ppm | 0.0000 ppm | 18.1792 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0135 ppm | 0.0011 ppm | 0.0080 ppm | 0.0070 ppm | 0.0000 ppm | 17.9780 ppm |
| Concentration RSD | 42.1 % | 15.1 % | 40.6 % | 5.0 % | 0.8 % | 3,467.2 % | 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 | -0.0001 ppm | 0.0002 ppm | 0.0000 ppm | 0.0015 ppm | 0.0034 ppm | 3.4142 ppm | 0.0029 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0001 ppm | -0.0001 ppm | 0.0016 ppm | 0.0031 ppm | 3.4255 ppm | 0.0029 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0000 ppm | 0.0004 ppm | 0.0013 ppm | 0.0041 ppm | 3.4221 ppm | 0.0026 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0007 ppm | -0.0001 ppm | 0.0015 ppm | 0.0031 ppm | 3.3950 ppm | 0.0030 ppm |
| Concentration RSD | 47.8 % | 162.5 % | 729.6 % | 8.8 % | 16.3 % | 0.5 % | 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 | 7.0875 ppm | 0.2540 ppm | 0.0071 ppm | 11.1042 ppm | 0.0002 ppm | -0.0007 ppm | 0.0010 ppm |
| Concentration per Run 1 | 7.1381 ppm | 0.2540 ppm | 0.0071 ppm | 11.1928 ppm | -0.0003 ppm | -0.0005 ppm | 0.0023 ppm |
| Concentration per Run 2 | 7.0896 ppm | 0.2556 ppm | 0.0071 ppm | 11.0483 ppm | 0.0000 ppm | -0.0016 ppm | 0.0003 ppm |
| Concentration per Run 3 | 7.0349 ppm | 0.2525 ppm | 0.0071 ppm | 11.0715 ppm | 0.0007 ppm | 0.0001 ppm | 0.0005 ppm |
| Concentration RSD | 0.7 % | 0.6 % | 0.4 % | 0.7 % | 318.5 % | 120.9 % | 106.4 % |

| | 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 | 4.6035 ppm | 0.0007 ppm | 0.2876 ppm | -0.0002 ppm | -0.0004 ppm | 0.0002 ppm |
| Concentration per Run 1 | -0.0008 ppm | 4.6375 ppm | 0.0005 ppm | 0.2877 ppm | -0.0002 ppm | 0.0001 ppm | 0.0001 ppm |
| Concentration per Run 2 | 0.0001 ppm | 4.6129 ppm | 0.0003 ppm | 0.2888 ppm | -0.0003 ppm | -0.0003 ppm | 0.0003 ppm |
| Concentration per Run 3 | 0.0013 ppm | 4.5600 ppm | 0.0012 ppm | 0.2864 ppm | -0.0003 ppm | -0.0011 ppm | 0.0001 ppm |
| Concentration RSD | 467.1 % | 0.9 % | 69.3 % | 0.4 % | 29.8 % | 143.6 % | 46.8 % |

| | 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 | 94.9149 % | 98.5242 % | 91.5890 % | 95.9022 % | 99.8507 % | 95.6540 % |
| Concentration per Run 1 | 0.0004 ppm | 94.1475 % | 99.1571 % | 91.3307 % | 95.2212 % | 100.4812 % | 95.7753 % |
| Concentration per Run 2 | 0.0005 ppm | 94.8646 % | 97.6544 % | 91.4797 % | 96.1061 % | 99.3475 % | 95.5018 % |
| Concentration per Run 3 | 0.0004 ppm | 95.7326 % | 98.7611 % | 91.9566 % | 96.3794 % | 99.7235 % | 95.6848 % |
| Concentration RSD | 13.0 % | 0.8 % | 0.8 % | 0.4 % | 0.6 % | 0.6 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473893-07 WG2012440
Analysis started at: 12/23/2024 11:16:30 AM
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 | -0.0001 ppm | 0.0057 ppm | 0.0040 ppm | 0.0109 ppm | 0.0034 ppm | 0.0000 ppm | 18.1732 ppm |
| Concentration per Run 1 | -0.0003 ppm | 0.0057 ppm | 0.0049 ppm | 0.0112 ppm | 0.0035 ppm | 0.0000 ppm | 18.2171 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0063 ppm | 0.0035 ppm | 0.0105 ppm | 0.0034 ppm | 0.0000 ppm | 18.1700 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0052 ppm | 0.0036 ppm | 0.0110 ppm | 0.0034 ppm | 0.0000 ppm | 18.1324 ppm |
| Concentration RSD | 100.9 % | 9.3 % | 19.0 % | 3.4 % | 1.4 % | 333.3 % | 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 | -0.0001 ppm | -0.0002 ppm | 0.0015 ppm | 0.0012 ppm | 0.0099 ppm | 1.6076 ppm | 0.0056 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0003 ppm | 0.0014 ppm | 0.0011 ppm | 0.0113 ppm | 1.6273 ppm | 0.0061 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0003 ppm | 0.0014 ppm | 0.0014 ppm | 0.0098 ppm | 1.6019 ppm | 0.0055 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0002 ppm | 0.0016 ppm | 0.0010 ppm | 0.0085 ppm | 1.5936 ppm | 0.0053 ppm |
| Concentration RSD | 33.7 % | 179.8 % | 9.1 % | 16.0 % | 14.4 % | 1.1 % | 7.3 % |

| | 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 | 6.5397 ppm | 0.0174 ppm | 0.0074 ppm | 17.2822 ppm | 0.0000 ppm | 0.0003 ppm | 0.0006 ppm |
| Concentration per Run 1 | 6.5710 ppm | 0.0175 ppm | 0.0074 ppm | 17.2766 ppm | -0.0004 ppm | 0.0012 ppm | 0.0005 ppm |
| Concentration per Run 2 | 6.5719 ppm | 0.0172 ppm | 0.0072 ppm | 17.3004 ppm | -0.0002 ppm | -0.0004 ppm | 0.0015 ppm |
| Concentration per Run 3 | 6.4760 ppm | 0.0174 ppm | 0.0074 ppm | 17.2697 ppm | 0.0005 ppm | 0.0000 ppm | -0.0002 ppm |
| Concentration RSD | 0.8 % | 0.9 % | 1.4 % | 0.1 % | 1,138.8 % | 298.2 % | 145.1 % |

| | 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 | 5.4293 ppm | 0.0001 ppm | 0.1633 ppm | -0.0002 ppm | 0.0003 ppm | 0.0005 ppm |
| Concentration per Run 1 | -0.0006 ppm | 5.4490 ppm | 0.0003 ppm | 0.1640 ppm | -0.0003 ppm | 0.0005 ppm | 0.0004 ppm |
| Concentration per Run 2 | -0.0007 ppm | 5.4416 ppm | -0.0001 ppm | 0.1621 ppm | -0.0002 ppm | -0.0003 ppm | 0.0005 ppm |
| Concentration per Run 3 | 0.0008 ppm | 5.3974 ppm | 0.0000 ppm | 0.1638 ppm | -0.0003 ppm | 0.0007 ppm | 0.0005 ppm |
| Concentration RSD | 541.6 % | 0.5 % | 210.4 % | 0.6 % | 21.7 % | 162.7 % | 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 | 0.0129 ppm | 94.8193 % | 98.3980 % | 91.1146 % | 95.7016 % | 99.3707 % | 95.3607 % |
| Concentration per Run 1 | 0.0128 ppm | 94.2715 % | 98.1393 % | 90.9385 % | 95.6995 % | 99.3937 % | 95.3239 % |
| Concentration per Run 2 | 0.0131 ppm | 94.5554 % | 98.4296 % | 90.8698 % | 95.7100 % | 99.2205 % | 95.1953 % |
| Concentration per Run 3 | 0.0129 ppm | 95.6310 % | 98.6250 % | 91.5356 % | 95.6952 % | 99.4977 % | 95.5628 % |
| Concentration RSD | 1.1 % | 0.8 % | 0.2 % | 0.4 % | 0.0 % | 0.1 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012440-7 WG2012440
Analysis started at: 12/23/2024 11:20:55 AM
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 | 0.0535 ppm | 2.2634 ppm | 0.1265 ppm | 0.9588 ppm | 2.1156 ppm | 0.0519 ppm | 27.8429 ppm |
| Concentration per Run 1 | 0.0536 ppm | 2.2536 ppm | 0.1260 ppm | 0.9638 ppm | 2.1054 ppm | 0.0520 ppm | 27.9136 ppm |
| Concentration per Run 2 | 0.0537 ppm | 2.2688 ppm | 0.1270 ppm | 0.9586 ppm | 2.1167 ppm | 0.0518 ppm | 27.7884 ppm |
| Concentration per Run 3 | 0.0532 ppm | 2.2679 ppm | 0.1265 ppm | 0.9542 ppm | 2.1248 ppm | 0.0520 ppm | 27.8268 ppm |
| Concentration RSD | 0.5 % | 0.4 % | 0.4 % | 0.5 % | 0.5 % | 0.2 % | 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 | 0.0543 ppm | 0.5126 ppm | 0.2055 ppm | 0.2701 ppm | 1.0511 ppm | 13.2329 ppm | 0.0054 ppm |
| Concentration per Run 1 | 0.0547 ppm | 0.5154 ppm | 0.2066 ppm | 0.2709 ppm | 1.0527 ppm | 13.1235 ppm | 0.0054 ppm |
| Concentration per Run 2 | 0.0543 ppm | 0.5141 ppm | 0.2056 ppm | 0.2705 ppm | 1.0474 ppm | 13.2768 ppm | 0.0054 ppm |
| Concentration per Run 3 | 0.0539 ppm | 0.5083 ppm | 0.2045 ppm | 0.2688 ppm | 1.0532 ppm | 13.2984 ppm | 0.0053 ppm |
| Concentration RSD | 0.7 % | 0.7 % | 0.5 % | 0.4 % | 0.3 % | 0.7 % | 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 | 16.5580 ppm | 0.5214 ppm | 0.8689 ppm | 28.4325 ppm | 0.5000 ppm | 0.5606 ppm | 0.4353 ppm |
| Concentration per Run 1 | 16.6507 ppm | 0.5222 ppm | 0.8609 ppm | 28.1149 ppm | 0.5030 ppm | 0.5625 ppm | 0.4339 ppm |
| Concentration per Run 2 | 16.5867 ppm | 0.5213 ppm | 0.8695 ppm | 28.5507 ppm | 0.5010 ppm | 0.5601 ppm | 0.4360 ppm |
| Concentration per Run 3 | 16.4365 ppm | 0.5206 ppm | 0.8763 ppm | 28.6318 ppm | 0.4961 ppm | 0.5592 ppm | 0.4361 ppm |
| Concentration RSD | 0.7 % | 0.2 % | 0.9 % | 1.0 % | 0.7 % | 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 | 0.1272 ppm | 6.4262 ppm | 0.9756 ppm | 1.2024 ppm | 1.0135 ppm | 0.1308 ppm | 0.5444 ppm |
| Concentration per Run 1 | 0.1284 ppm | 6.4440 ppm | 0.9728 ppm | 1.1986 ppm | 1.0177 ppm | 0.1313 ppm | 0.5441 ppm |
| Concentration per Run 2 | 0.1271 ppm | 6.4376 ppm | 0.9804 ppm | 1.2038 ppm | 1.0126 ppm | 0.1300 ppm | 0.5460 ppm |
| Concentration per Run 3 | 0.1262 ppm | 6.3970 ppm | 0.9737 ppm | 1.2048 ppm | 1.0102 ppm | 0.1311 ppm | 0.5431 ppm |
| Concentration RSD | 0.9 % | 0.4 % | 0.4 % | 0.3 % | 0.4 % | 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 | 0.5146 ppm | 94.8314 % | 98.3995 % | 87.3434 % | 93.8134 % | 97.9682 % | 93.5535 % |
| Concentration per Run 1 | 0.5161 ppm | 94.5320 % | 98.0458 % | 87.1499 % | 93.7786 % | 97.8081 % | 93.5886 % |
| Concentration per Run 2 | 0.5148 ppm | 94.8399 % | 98.6785 % | 87.4581 % | 93.7770 % | 98.2012 % | 93.6833 % |
| Concentration per Run 3 | 0.5127 ppm | 95.1224 % | 98.4741 % | 87.4222 % | 93.8846 % | 97.8954 % | 93.3887 % |
| Concentration RSD | 0.3 % | 0.3 % | 0.3 % | 0.2 % | 0.1 % | 0.2 % | 0.2 % |

# iCAP Pro Trace 8 Data report
12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012440-8 WG2012440
Analysis started at: 12/23/2024 11:25:23 AM
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 | -0.0002 ppm | 0.0033 ppm | 0.0033 ppm | 0.0110 ppm | 0.0035 ppm | 0.0000 ppm | 18.0615 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0021 ppm | 0.0045 ppm | 0.0113 ppm | 0.0035 ppm | 0.0000 ppm | 17.9297 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0021 ppm | 0.0027 ppm | 0.0105 ppm | 0.0035 ppm | 0.0000 ppm | 18.0890 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0057 ppm | 0.0028 ppm | 0.0111 ppm | 0.0035 ppm | 0.0000 ppm | 18.1657 ppm |
| Concentration RSD | 34.2 % | 63.9 % | 30.6 % | 3.9 % | 0.9 % | 78.3 % | 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 | -0.0001 ppm | 0.0002 ppm | 0.0003 ppm | 0.0010 ppm | 0.0012 ppm | 1.6066 ppm | 0.0064 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0003 ppm | 0.0001 ppm | 0.0011 ppm | 0.0014 ppm | 1.6011 ppm | 0.0066 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0002 ppm | 0.0004 ppm | 0.0011 ppm | 0.0006 ppm | 1.6186 ppm | 0.0062 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0004 ppm | 0.0004 ppm | 0.0008 ppm | 0.0015 ppm | 1.6002 ppm | 0.0063 ppm |
| Concentration RSD | 73.3 % | 230.8 % | 67.3 % | 13.1 % | 40.8 % | 0.6 % | 2.6 % |

| | 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 | 6.5094 ppm | 0.0173 ppm | 0.0142 ppm | 17.4571 ppm | -0.0001 ppm | -0.0002 ppm | 0.0061 ppm |
| Concentration per Run 1 | 6.5371 ppm | 0.0172 ppm | 0.0140 ppm | 17.4650 ppm | -0.0007 ppm | 0.0002 ppm | 0.0072 ppm |
| Concentration per Run 2 | 6.5251 ppm | 0.0173 ppm | 0.0139 ppm | 17.5491 ppm | 0.0004 ppm | 0.0007 ppm | 0.0054 ppm |
| Concentration per Run 3 | 6.4661 ppm | 0.0175 ppm | 0.0147 ppm | 17.3572 ppm | 0.0000 ppm | -0.0014 ppm | 0.0056 ppm |
| Concentration RSD | 0.6 % | 0.9 % | 3.2 % | 0.6 % | 505.0 % | 566.4 % | 16.8 % |

| | 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 | 0.0011 ppm | 5.4255 ppm | 0.0031 ppm | 0.1624 ppm | 0.0000 ppm | 0.0001 ppm | 0.0007 ppm |
| Concentration per Run 1 | 0.0006 ppm | 5.4729 ppm | 0.0027 ppm | 0.1624 ppm | 0.0000 ppm | 0.0001 ppm | 0.0006 ppm |
| Concentration per Run 2 | 0.0011 ppm | 5.4024 ppm | 0.0032 ppm | 0.1630 ppm | 0.0001 ppm | 0.0003 ppm | 0.0007 ppm |
| Concentration per Run 3 | 0.0017 ppm | 5.4013 ppm | 0.0035 ppm | 0.1617 ppm | 0.0001 ppm | -0.0001 ppm | 0.0007 ppm |
| Concentration RSD | 52.0 % | 0.8 % | 14.0 % | 0.4 % | 77.6 % | 272.8 % | 5.1 % |

| | 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 | 0.0128 ppm | 94.8073 % | 98.5008 % | 91.1213 % | 95.9433 % | 99.3634 % | 95.5582 % |
| Concentration per Run 1 | 0.0130 ppm | 94.6652 % | 99.3206 % | 91.0054 % | 96.4124 % | 100.0658 % | 95.9365 % |
| Concentration per Run 2 | 0.0127 ppm | 94.6516 % | 98.5327 % | 90.8918 % | 95.7891 % | 99.5601 % | 95.3861 % |
| Concentration per Run 3 | 0.0127 ppm | 95.1051 % | 97.6491 % | 91.4668 % | 95.6283 % | 98.4643 % | 95.3521 % |
| Concentration RSD | 1.0 % | 0.3 % | 0.8 % | 0.3 % | 0.4 % | 0.8 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012440-9 WG2012440
Analysis started at: 12/23/2024 11:29:49 AM
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 | 0.0515 ppm | 2.0622 ppm | 0.1206 ppm | 0.9665 ppm | 2.0138 ppm | 0.0495 ppm | 27.3001 ppm |
| Concentration per Run 1 | 0.0519 ppm | 2.0681 ppm | 0.1195 ppm | 0.9742 ppm | 2.0361 ppm | 0.0496 ppm | 27.1878 ppm |
| Concentration per Run 2 | 0.0515 ppm | 2.0569 ppm | 0.1213 ppm | 0.9676 ppm | 2.0030 ppm | 0.0494 ppm | 27.3730 ppm |
| Concentration per Run 3 | 0.0511 ppm | 2.0616 ppm | 0.1211 ppm | 0.9578 ppm | 2.0021 ppm | 0.0494 ppm | 27.3397 ppm |
| Concentration RSD | 0.7 % | 0.3 % | 0.9 % | 0.9 % | 1.0 % | 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 | 0.0514 ppm | 0.4905 ppm | 0.1967 ppm | 0.2591 ppm | 0.9852 ppm | 13.1064 ppm | 0.0058 ppm |
| Concentration per Run 1 | 0.0519 ppm | 0.4949 ppm | 0.1980 ppm | 0.2607 ppm | 0.9877 ppm | 13.1811 ppm | 0.0059 ppm |
| Concentration per Run 2 | 0.0514 ppm | 0.4904 ppm | 0.1974 ppm | 0.2591 ppm | 0.9839 ppm | 13.0571 ppm | 0.0054 ppm |
| Concentration per Run 3 | 0.0509 ppm | 0.4863 ppm | 0.1945 ppm | 0.2576 ppm | 0.9842 ppm | 13.0810 ppm | 0.0063 ppm |
| Concentration RSD | 0.9 % | 0.9 % | 0.9 % | 0.6 % | 0.2 % | 0.5 % | 7.7 % |

| | 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 | 16.3606 ppm | 0.5057 ppm | 0.8631 ppm | 27.8693 ppm | 0.4912 ppm | 0.5436 ppm | 0.3785 ppm |
| Concentration per Run 1 | 16.5224 ppm | 0.5056 ppm | 0.8589 ppm | 27.9336 ppm | 0.4942 ppm | 0.5466 ppm | 0.3776 ppm |
| Concentration per Run 2 | 16.4162 ppm | 0.5059 ppm | 0.8625 ppm | 27.7846 ppm | 0.4937 ppm | 0.5436 ppm | 0.3757 ppm |
| Concentration per Run 3 | 16.1432 ppm | 0.5055 ppm | 0.8679 ppm | 27.8896 ppm | 0.4856 ppm | 0.5406 ppm | 0.3822 ppm |
| Concentration RSD | 1.2 % | 0.0 % | 0.5 % | 0.3 % | 1.0 % | 0.6 % | 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 | 0.1217 ppm | 5.9397 ppm | 0.9777 ppm | 1.1984 ppm | 1.0132 ppm | 0.1248 ppm | 0.5186 ppm |
| Concentration per Run 1 | 0.1229 ppm | 5.9863 ppm | 0.9801 ppm | 1.2041 ppm | 1.0219 ppm | 0.1248 ppm | 0.5224 ppm |
| Concentration per Run 2 | 0.1210 ppm | 5.9550 ppm | 0.9830 ppm | 1.1907 ppm | 1.0150 ppm | 0.1245 ppm | 0.5195 ppm |
| Concentration per Run 3 | 0.1214 ppm | 5.8779 ppm | 0.9700 ppm | 1.2004 ppm | 1.0027 ppm | 0.1252 ppm | 0.5139 ppm |
| Concentration RSD | 0.8 % | 0.9 % | 0.7 % | 0.6 % | 1.0 % | 0.3 % | 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 | 0.5048 ppm | 94.8273 % | 98.8265 % | 87.3255 % | 94.4622 % | 98.2398 % | 93.5314 % |
| Concentration per Run 1 | 0.5095 ppm | 94.1685 % | 99.0919 % | 87.1794 % | 94.6526 % | 98.8324 % | 93.9948 % |
| Concentration per Run 2 | 0.5074 ppm | 94.6678 % | 98.5569 % | 87.2865 % | 94.1928 % | 97.9656 % | 93.4709 % |
| Concentration per Run 3 | 0.4975 ppm | 95.6455 % | 98.8307 % | 87.5106 % | 94.5413 % | 97.9214 % | 93.1286 % |
| Concentration RSD | 1.3 % | 0.8 % | 0.3 % | 0.2 % | 0.3 % | 0.5 % | 0.5 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012440-10d5 WG2012440
Analysis started at: 12/23/2024 11:34:15 AM
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 | -0.0002 ppm | -0.0021 ppm | 0.0000 ppm | 0.0040 ppm | 0.0007 ppm | 0.0000 ppm | 3.6300 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0022 ppm | 0.0004 ppm | 0.0041 ppm | 0.0007 ppm | 0.0000 ppm | 3.6293 ppm |
| Concentration per Run 2 | -0.0004 ppm | -0.0021 ppm | -0.0005 ppm | 0.0036 ppm | 0.0008 ppm | 0.0000 ppm | 3.6329 ppm |
| Concentration per Run 3 | -0.0002 ppm | -0.0021 ppm | 0.0002 ppm | 0.0044 ppm | 0.0007 ppm | 0.0000 ppm | 3.6276 ppm |
| Concentration RSD | 74.0 % | 3.6 % | 1,045.8 % | 9.7 % | 10.0 % | 96.0 % | 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 | -0.0001 ppm | -0.0003 ppm | 0.0003 ppm | 0.0000 ppm | 0.0042 ppm | 0.3396 ppm | 0.0011 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0002 ppm | 0.0003 ppm | 0.0000 ppm | 0.0045 ppm | 0.3385 ppm | 0.0010 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0001 ppm | 0.0002 ppm | -0.0001 ppm | 0.0040 ppm | 0.3360 ppm | 0.0016 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0005 ppm | 0.0003 ppm | 0.0001 ppm | 0.0041 ppm | 0.3445 ppm | 0.0008 ppm |
| Concentration RSD | 30.0 % | 93.5 % | 23.7 % | 243.7 % | 6.5 % | 1.3 % | 34.0 % |

| | 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 | 1.2846 ppm | 0.0035 ppm | 0.0105 ppm | 3.4906 ppm | -0.0003 ppm | -0.0002 ppm | 0.0150 ppm |
| Concentration per Run 1 | 1.2947 ppm | 0.0036 ppm | 0.0106 ppm | 3.4816 ppm | -0.0003 ppm | 0.0006 ppm | 0.0162 ppm |
| Concentration per Run 2 | 1.2817 ppm | 0.0035 ppm | 0.0106 ppm | 3.5099 ppm | -0.0004 ppm | -0.0006 ppm | 0.0152 ppm |
| Concentration per Run 3 | 1.2774 ppm | 0.0035 ppm | 0.0104 ppm | 3.4802 ppm | -0.0002 ppm | -0.0007 ppm | 0.0135 ppm |
| Concentration RSD | 0.7 % | 1.7 % | 0.9 % | 0.5 % | 24.7 % | 305.5 % | 9.1 % |

| | 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 | 1.0340 ppm | 0.0072 ppm | 0.0321 ppm | 0.0004 ppm | -0.0002 ppm | 0.0000 ppm |
| Concentration per Run 1 | 0.0002 ppm | 1.0361 ppm | 0.0066 ppm | 0.0320 ppm | 0.0005 ppm | -0.0005 ppm | -0.0001 ppm |
| Concentration per Run 2 | 0.0007 ppm | 1.0327 ppm | 0.0082 ppm | 0.0321 ppm | 0.0003 ppm | 0.0013 ppm | 0.0000 ppm |
| Concentration per Run 3 | 0.0004 ppm | 1.0331 ppm | 0.0069 ppm | 0.0323 ppm | 0.0004 ppm | -0.0013 ppm | 0.0002 ppm |
| Concentration RSD | 59.9 % | 0.2 % | 11.6 % | 0.5 % | 27.1 % | 808.9 % | 389.9 % |

| | 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 | 0.0022 ppm | 99.2972 % | 100.6616 % | 96.6478 % | 97.6037 % | 99.5347 % | 97.3509 % |
| Concentration per Run 1 | 0.0022 ppm | 98.8274 % | 100.7977 % | 96.7312 % | 97.7494 % | 99.6044 % | 97.4197 % |
| Concentration per Run 2 | 0.0024 ppm | 99.0243 % | 100.3542 % | 96.8600 % | 97.2880 % | 98.9686 % | 97.5047 % |
| Concentration per Run 3 | 0.0021 ppm | 100.0398 % | 100.8328 % | 96.3521 % | 97.7738 % | 100.0311 % | 97.1282 % |
| Concentration RSD | 6.3 % | 0.7 % | 0.3 % | 0.3 % | 0.3 % | 0.5 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 11:38:38 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 | 0.4907 ppm | 0.4985 ppm | 0.4837 ppm | 0.4520 ppm | 0.5042 ppm | 0.5011 ppm | 0.4931 ppm |
| Concentration per Run 1 | 0.4912 ppm | 0.5018 ppm | 0.4820 ppm | 0.4579 ppm | 0.5071 ppm | 0.5015 ppm | 0.4948 ppm |
| Concentration per Run 2 | 0.4911 ppm | 0.4940 ppm | 0.4826 ppm | 0.4502 ppm | 0.5019 ppm | 0.5000 ppm | 0.4888 ppm |
| Concentration per Run 3 | 0.4898 ppm | 0.4997 ppm | 0.4863 ppm | 0.4479 ppm | 0.5035 ppm | 0.5019 ppm | 0.4957 ppm |
| Recovery Percentage 1 | 98.140 % | 99.704 % | 96.731 % | 90.399 % | 100.832 % | 100.224 % | 98.621 % |
| Concentration RSD | 0.2 % | 0.8 % | 0.5 % | 1.2 % | 0.5 % | 0.2 % | 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 | 0.4898 ppm | 0.5031 ppm | 0.4863 ppm | 0.4961 ppm | 0.4956 ppm | 5.4985 ppm | 0.5259 ppm |
| Concentration per Run 1 | 0.4926 ppm | 0.5054 ppm | 0.4875 ppm | 0.4968 ppm | 0.4929 ppm | 5.5051 ppm | 0.5288 ppm |
| Concentration per Run 2 | 0.4872 ppm | 0.5011 ppm | 0.4856 ppm | 0.4959 ppm | 0.4971 ppm | 5.4999 ppm | 0.5244 ppm |
| Concentration per Run 3 | 0.4896 ppm | 0.5028 ppm | 0.4859 ppm | 0.4957 ppm | 0.4968 ppm | 5.4906 ppm | 0.5246 ppm |
| Recovery Percentage 1 | 97.961 % | 100.617 % | 97.264 % | 99.224 % | 99.119 % | 109.971 % | 105.186 % |
| Concentration RSD | 0.6 % | 0.4 % | 0.2 % | 0.1 % | 0.5 % | 0.1 % | 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 | 0.4893 ppm | 0.4872 ppm | 0.4874 ppm | 10.9244 ppm | 0.4997 ppm | 0.4991 ppm | 0.5058 ppm |
| Concentration per Run 1 | 0.4901 ppm | 0.4878 ppm | 0.4879 ppm | 10.9924 ppm | 0.5002 ppm | 0.5009 ppm | 0.5065 ppm |
| Concentration per Run 2 | 0.4894 ppm | 0.4857 ppm | 0.4856 ppm | 10.8785 ppm | 0.4985 ppm | 0.4989 ppm | 0.5034 ppm |
| Concentration per Run 3 | 0.4885 ppm | 0.4882 ppm | 0.4889 ppm | 10.9023 ppm | 0.5003 ppm | 0.4974 ppm | 0.5074 ppm |
| Recovery Percentage 1 | 97.868 % | 97.448 % | 97.489 % | 109.244 % | 99.932 % | 99.816 % | 101.151 % |
| Concentration RSD | 0.2 % | 0.3 % | 0.3 % | 0.5 % | 0.2 % | 0.4 % | 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 | 0.4952 ppm | 5.1901 ppm | 0.5058 ppm | 0.5131 ppm | 0.4867 ppm | 0.5083 ppm | 0.5005 ppm |
| Concentration per Run 1 | 0.4932 ppm | 5.2021 ppm | 0.5094 ppm | 0.5151 ppm | 0.4888 ppm | 0.5053 ppm | 0.5019 ppm |
| Concentration per Run 2 | 0.4969 ppm | 5.1786 ppm | 0.5009 ppm | 0.5116 ppm | 0.4861 ppm | 0.5089 ppm | 0.5004 ppm |
| Concentration per Run 3 | 0.4955 ppm | 5.1894 ppm | 0.5071 ppm | 0.5126 ppm | 0.4851 ppm | 0.5108 ppm | 0.4992 ppm |
| Recovery Percentage 1 | 99.039 % | 98.858 % | 101.167 % | 102.621 % | 97.335 % | 101.661 % | 100.102 % |
| Concentration RSD | 0.4 % | 0.2 % | 0.9 % | 0.3 % | 0.4 % | 0.6 % | 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 | 0.4865 ppm | 100.6587 % | 100.9249 % | 95.3898 % | 96.1327 % | 98.3403 % | 96.1580 % |
| Concentration per Run 1 | 0.4889 ppm | 100.3793 % | 100.9167 % | 95.2662 % | 96.2256 % | 98.5734 % | 96.2140 % |
| Concentration per Run 2 | 0.4846 ppm | 100.9754 % | 101.5173 % | 95.6743 % | 96.3103 % | 98.5827 % | 96.2513 % |
| Concentration per Run 3 | 0.4860 ppm | 100.6215 % | 100.3408 % | 95.2291 % | 95.8621 % | 97.8647 % | 96.0085 % |
| Recovery Percentage 1 | 97.294 % | | | | | | |
| Concentration RSD | 0.4 % | 0.3 % | 0.6 % | 0.3 % | 0.2 % | 0.4 % | 0.1 % |

# iCAP Pro Trace 8 Data report
12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 11:43:03 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 | -0.0001 ppm | -0.0050 ppm | -0.0009 ppm | 0.0009 ppm | 0.0001 ppm | 0.0000 ppm | 0.0009 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0057 ppm | -0.0009 ppm | 0.0006 ppm | 0.0001 ppm | 0.0000 ppm | 0.0012 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0032 ppm | -0.0007 ppm | 0.0012 ppm | 0.0000 ppm | 0.0000 ppm | 0.0007 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0061 ppm | -0.0012 ppm | 0.0009 ppm | 0.0001 ppm | 0.0001 ppm | 0.0008 ppm |
| Recovery Percentage 1 | -1.682 % | -4.991 % | -18.805 % | 2.994 % | 0.649 % | 0.929 % | 0.915 % |
| Concentration RSD | 39.8 % | 31.5 % | 25.9 % | 32.5 % | 57.5 % | 38.9 % | 26.8 % |

| | 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 | 0.0000 ppm | 0.0000 ppm | -0.0003 ppm | 0.0006 ppm | 0.0275 ppm | -0.0005 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | -0.0003 ppm | 0.0011 ppm | 0.0247 ppm | -0.0005 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0001 ppm | -0.0001 ppm | -0.0003 ppm | 0.0003 ppm | 0.0290 ppm | -0.0005 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0001 ppm | 0.0001 ppm | -0.0003 ppm | 0.0005 ppm | 0.0288 ppm | -0.0004 ppm |
| Recovery Percentage 1 | -0.043 % | -0.044 % | 0.030 % | -3.220 % | 1.268 % | 1.101 % | -4.916 % |
| Concentration RSD | 1,006.6 % | 2,596.0 % | 4,274.0 % | 12.0 % | 61.6 % | 8.8 % | 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 | -0.0005 ppm | 0.0001 ppm | 0.0026 ppm | 0.0664 ppm | -0.0004 ppm | -0.0002 ppm | 0.0036 ppm |
| Concentration per Run 1 | 0.0004 ppm | 0.0001 ppm | 0.0027 ppm | 0.0680 ppm | -0.0007 ppm | -0.0006 ppm | 0.0031 ppm |
| Concentration per Run 2 | -0.0009 ppm | 0.0001 ppm | 0.0025 ppm | 0.0662 ppm | -0.0002 ppm | 0.0002 ppm | 0.0059 ppm |
| Concentration per Run 3 | -0.0009 ppm | 0.0000 ppm | 0.0026 ppm | 0.0651 ppm | -0.0004 ppm | 0.0000 ppm | 0.0018 ppm |
| Recovery Percentage 1 | -0.475 % | 0.593 % | 5.186 % | 3.322 % | -1.759 % | -1.641 % | 7.274 % |
| Concentration RSD | 165.0 % | 142.2 % | 3.6 % | 2.1 % | 53.1 % | 243.1 % | 57.9 % |

| | 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 | 0.0006 ppm | 0.0013 ppm | 0.0001 ppm | 0.0000 ppm | 0.0000 ppm | -0.0001 ppm |
| Concentration per Run 1 | -0.0014 ppm | 0.0004 ppm | 0.0010 ppm | 0.0002 ppm | 0.0001 ppm | -0.0001 ppm | 0.0000 ppm |
| Concentration per Run 2 | 0.0006 ppm | -0.0003 ppm | 0.0011 ppm | 0.0001 ppm | 0.0000 ppm | 0.0003 ppm | 0.0000 ppm |
| Concentration per Run 3 | 0.0013 ppm | 0.0017 ppm | 0.0018 ppm | 0.0001 ppm | -0.0002 ppm | -0.0001 ppm | -0.0002 ppm |
| Recovery Percentage 1 | 2.072 % | 0.118 % | 2.604 % | 1.099 % | -0.159 % | 0.237 % | -0.575 % |
| Concentration RSD | 674.1 % | 179.7 % | 33.0 % | 37.1 % | 1,013.0 % | 521.3 % | 188.6 % |

| | 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 | 99.4622 % | 99.6685 % | 96.8351 % | 98.8236 % | 99.5810 % | 97.7846 % |
| Concentration per Run 1 | -0.0002 ppm | 99.1151 % | 99.0263 % | 96.7637 % | 99.3271 % | 99.0431 % | 98.0207 % |
| Concentration per Run 2 | -0.0001 ppm | 99.5093 % | 100.0284 % | 97.0584 % | 98.6444 % | 100.0118 % | 97.7810 % |
| Concentration per Run 3 | -0.0003 ppm | 99.7622 % | 99.9508 % | 96.6834 % | 98.4994 % | 99.6879 % | 97.5521 % |
| Recovery Percentage 1 | -3.958 % | | | | | | |
| Concentration RSD | 64.2 % | 0.3 % | 0.6 % | 0.2 % | 0.4 % | 0.5 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012266-1 WG2012266
Analysis started at: 12/23/2024 11:49:52 AM
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 | -0.0039 ppm | -0.0013 ppm | 0.0011 ppm | 0.0000 ppm | 0.0000 ppm | 0.0039 ppm |
| Concentration per Run 1 | -0.0004 ppm | -0.0069 ppm | -0.0015 ppm | 0.0007 ppm | 0.0000 ppm | 0.0000 ppm | 0.0048 ppm |
| Concentration per Run 2 | -0.0003 ppm | -0.0031 ppm | -0.0006 ppm | 0.0013 ppm | 0.0000 ppm | 0.0000 ppm | 0.0040 ppm |
| Concentration per Run 3 | -0.0003 ppm | -0.0017 ppm | -0.0018 ppm | 0.0014 ppm | 0.0000 ppm | 0.0000 ppm | 0.0029 ppm |
| Recovery Percentage 1 | -6.497 % | -3.909 % | -25.827 % | 3.761 % | -0.182 % | 0.015 % | 3.892 % |
| Concentration RSD | 13.0 % | 68.0 % | 45.1 % | 34.2 % | 74.9 % | 2,253.2 % | 23.8 % |

| | 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 | -0.0002 ppm | -0.0002 ppm | -0.0002 ppm | 0.0037 ppm | 0.0144 ppm | -0.0002 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0002 ppm | 0.0000 ppm | -0.0001 ppm | 0.0036 ppm | 0.0152 ppm | -0.0007 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0001 ppm | -0.0004 ppm | -0.0001 ppm | 0.0034 ppm | 0.0046 ppm | 0.0002 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0002 ppm | -0.0001 ppm | -0.0004 ppm | 0.0041 ppm | 0.0234 ppm | -0.0002 ppm |
| Recovery Percentage 1 | 0.278 % | -1.538 % | -1.772 % | -1.859 % | 7.424 % | 0.576 % | -2.400 % |
| Concentration RSD | 357.4 % | 44.6 % | 100.1 % | 113.4 % | 9.9 % | 65.7 % | 183.2 % |

| | 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 | -0.0006 ppm | 0.0000 ppm | 0.0004 ppm | 0.0280 ppm | -0.0004 ppm | 0.0000 ppm | 0.0012 ppm |
| Concentration per Run 1 | -0.0012 ppm | 0.0000 ppm | 0.0004 ppm | 0.0279 ppm | -0.0001 ppm | 0.0004 ppm | 0.0015 ppm |
| Concentration per Run 2 | -0.0015 ppm | 0.0001 ppm | 0.0005 ppm | 0.0276 ppm | -0.0010 ppm | -0.0002 ppm | 0.0017 ppm |
| Concentration per Run 3 | 0.0009 ppm | 0.0000 ppm | 0.0004 ppm | 0.0284 ppm | 0.0001 ppm | -0.0001 ppm | 0.0003 ppm |
| Recovery Percentage 1 | -0.624 % | 0.465 % | 0.873 % | 1.399 % | -1.418 % | 0.379 % | 2.344 % |
| Concentration RSD | 214.5 % | 25.7 % | 18.3 % | 1.5 % | 165.6 % | 848.5 % | 63.6 % |

| | 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 | -0.0005 ppm | -0.0001 ppm | -0.0004 ppm | 0.0000 ppm | 0.0000 ppm | -0.0003 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0004 ppm | 0.0006 ppm | -0.0005 ppm | 0.0000 ppm | -0.0002 ppm | -0.0010 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0016 ppm | -0.0006 ppm | -0.0006 ppm | 0.0001 ppm | 0.0002 ppm | 0.0001 ppm | 0.0000 ppm |
| Concentration per Run 3 | -0.0002 ppm | -0.0001 ppm | 0.0000 ppm | 0.0001 ppm | 0.0000 ppm | -0.0001 ppm | 0.0002 ppm |
| Recovery Percentage 1 | -4.715 % | -0.012 % | -0.713 % | 0.390 % | -0.044 % | -1.678 % | 0.996 % |
| Concentration RSD | 221.5 % | 1,041.0 % | 97.3 % | 127.1 % | 4,688.6 % | 182.0 % | 137.0 % |

| | 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 | -0.0005 ppm | 95.7449 % | 98.4939 % | 95.6242 % | 99.4688 % | 101.0737 % | 98.7298 % |
| Concentration per Run 1 | -0.0006 ppm | 95.0625 % | 98.8232 % | 95.0337 % | 99.3393 % | 101.5640 % | 98.5205 % |
| Concentration per Run 2 | -0.0006 ppm | 95.5616 % | 99.0563 % | 95.9700 % | 98.9638 % | 101.5390 % | 99.1405 % |
| Concentration per Run 3 | -0.0004 ppm | 96.6105 % | 97.6023 % | 95.8690 % | 100.1034 % | 100.1182 % | 98.5283 % |
| Recovery Percentage 1 | -9.873 % | | | | | | |
| Concentration RSD | 24.5 % | 0.8 % | 0.8 % | 0.5 % | 0.6 % | 0.8 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012266-2 WG2012266
Analysis started at: 12/23/2024 11:54:22 AM
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 | 0.0518 ppm | 2.2107 ppm | 0.1185 ppm | 0.9105 ppm | 2.0857 ppm | 0.0503 ppm | 10.0254 ppm |
| Concentration per Run 1 | 0.0522 ppm | 2.2232 ppm | 0.1170 ppm | 0.9167 ppm | 2.0830 ppm | 0.0505 ppm | 10.0753 ppm |
| Concentration per Run 2 | 0.0516 ppm | 2.2111 ppm | 0.1187 ppm | 0.9110 ppm | 2.0849 ppm | 0.0503 ppm | 10.0312 ppm |
| Concentration per Run 3 | 0.0515 ppm | 2.1976 ppm | 0.1198 ppm | 0.9039 ppm | 2.0894 ppm | 0.0502 ppm | 9.9695 ppm |
| Concentration RSD | 0.7 % | 0.6 % | 1.2 % | 0.7 % | 0.2 % | 0.3 % | 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 | 0.0534 ppm | 0.5081 ppm | 0.2012 ppm | 0.2615 ppm | 0.9968 ppm | 11.5269 ppm | -0.0005 ppm |
| Concentration per Run 1 | 0.0536 ppm | 0.5127 ppm | 0.2028 ppm | 0.2641 ppm | 0.9977 ppm | 11.4842 ppm | -0.0006 ppm |
| Concentration per Run 2 | 0.0534 ppm | 0.5067 ppm | 0.2004 ppm | 0.2618 ppm | 1.0012 ppm | 11.5343 ppm | -0.0004 ppm |
| Concentration per Run 3 | 0.0532 ppm | 0.5048 ppm | 0.2003 ppm | 0.2586 ppm | 0.9915 ppm | 11.5622 ppm | -0.0004 ppm |
| Concentration RSD | 0.4 % | 0.8 % | 0.7 % | 1.1 % | 0.5 % | 0.3 % | 26.2 % |

| | 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 | 10.1834 ppm | 0.4931 ppm | 0.8862 ppm | 11.5668 ppm | 0.4977 ppm | 0.5557 ppm | 0.4256 ppm |
| Concentration per Run 1 | 10.2714 ppm | 0.4946 ppm | 0.8840 ppm | 11.5511 ppm | 0.5029 ppm | 0.5586 ppm | 0.4268 ppm |
| Concentration per Run 2 | 10.1936 ppm | 0.4935 ppm | 0.8838 ppm | 11.6020 ppm | 0.4945 ppm | 0.5558 ppm | 0.4237 ppm |
| Concentration per Run 3 | 10.0851 ppm | 0.4912 ppm | 0.8909 ppm | 11.5473 ppm | 0.4957 ppm | 0.5528 ppm | 0.4263 ppm |
| Concentration RSD | 0.9 % | 0.4 % | 0.5 % | 0.3 % | 0.9 % | 0.5 % | 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 | 0.1224 ppm | 0.9708 ppm | 0.9824 ppm | 1.0393 ppm | 1.0003 ppm | 0.1284 ppm | 0.5288 ppm |
| Concentration per Run 1 | 0.1200 ppm | 0.9795 ppm | 0.9904 ppm | 1.0360 ppm | 1.0085 ppm | 0.1286 ppm | 0.5326 ppm |
| Concentration per Run 2 | 0.1232 ppm | 0.9707 ppm | 0.9767 ppm | 1.0376 ppm | 0.9993 ppm | 0.1289 ppm | 0.5281 ppm |
| Concentration per Run 3 | 0.1239 ppm | 0.9621 ppm | 0.9803 ppm | 1.0442 ppm | 0.9931 ppm | 0.1279 ppm | 0.5256 ppm |
| Concentration RSD | 1.7 % | 0.9 % | 0.7 % | 0.4 % | 0.8 % | 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 | 0.4932 ppm | 96.7226 % | 99.7380 % | 90.0977 % | 95.9860 % | 99.3439 % | 95.0896 % |
| Concentration per Run 1 | 0.4953 ppm | 96.1094 % | 99.3158 % | 89.6461 % | 96.3159 % | 99.0325 % | 95.1665 % |
| Concentration per Run 2 | 0.4927 ppm | 96.7650 % | 99.5711 % | 90.0941 % | 95.8830 % | 99.2301 % | 95.0750 % |
| Concentration per Run 3 | 0.4916 ppm | 97.2935 % | 100.3270 % | 90.5531 % | 95.7590 % | 99.7691 % | 95.0274 % |
| Concentration RSD | 0.4 % | 0.6 % | 0.5 % | 0.5 % | 0.3 % | 0.4 % | 0.1 % |

# iCAP Pro Trace 8 Data report
12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473740-02 WG2012266
Analysis started at: 12/23/2024 11:58:46 AM
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 | -0.0002 ppm | 0.2655 ppm | 0.0003 ppm | 0.0208 ppm | 0.0409 ppm | 0.0000 ppm | 33.3775 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.2623 ppm | 0.0004 ppm | 0.0215 ppm | 0.0408 ppm | 0.0001 ppm | 33.1979 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.2675 ppm | -0.0007 ppm | 0.0204 ppm | 0.0410 ppm | 0.0000 ppm | 33.4343 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.2665 ppm | 0.0011 ppm | 0.0206 ppm | 0.0409 ppm | 0.0000 ppm | 33.5004 ppm |
| Concentration RSD | 64.6 % | 1.0 % | 339.3 % | 2.7 % | 0.3 % | 36.9 % | 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 | -0.0002 ppm | 0.0002 ppm | 0.0007 ppm | 0.0038 ppm | 0.4298 ppm | 3.2632 ppm | 0.0017 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0003 ppm | 0.0009 ppm | 0.0035 ppm | 0.4283 ppm | 3.2690 ppm | 0.0017 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0001 ppm | 0.0008 ppm | 0.0039 ppm | 0.4292 ppm | 3.2690 ppm | 0.0013 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0003 ppm | 0.0004 ppm | 0.0038 ppm | 0.4319 ppm | 3.2515 ppm | 0.0020 ppm |
| Concentration RSD | 34.6 % | 49.0 % | 35.8 % | 5.3 % | 0.4 % | 0.3 % | 19.5 % |

| | 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 | 9.4872 ppm | 0.0423 ppm | 0.0063 ppm | 146.2783 ppm | 0.0011 ppm | 0.0099 ppm | 0.0054 ppm |
| Concentration per Run 1 | 9.5426 ppm | 0.0424 ppm | 0.0066 ppm | 144.9893 ppm | 0.0014 ppm | 0.0100 ppm | 0.0060 ppm |
| Concentration per Run 2 | 9.5148 ppm | 0.0421 ppm | 0.0062 ppm | 147.2359 ppm | 0.0012 ppm | 0.0106 ppm | 0.0054 ppm |
| Concentration per Run 3 | 9.4043 ppm | 0.0424 ppm | 0.0062 ppm | 146.6097 ppm | 0.0006 ppm | 0.0092 ppm | 0.0047 ppm |
| Concentration RSD | 0.8 % | 0.4 % | 3.7 % | 0.8 % | 37.9 % | 7.4 % | 12.1 % |

| | 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 | 0.0017 ppm | 6.9295 ppm | 0.0032 ppm | 0.2567 ppm | 0.0139 ppm | 0.0004 ppm | 0.0013 ppm |
| Concentration per Run 1 | 0.0019 ppm | 6.9690 ppm | 0.0038 ppm | 0.2577 ppm | 0.0141 ppm | 0.0005 ppm | 0.0015 ppm |
| Concentration per Run 2 | 0.0010 ppm | 6.9352 ppm | 0.0024 ppm | 0.2558 ppm | 0.0140 ppm | -0.0002 ppm | 0.0014 ppm |
| Concentration per Run 3 | 0.0022 ppm | 6.8842 ppm | 0.0034 ppm | 0.2565 ppm | 0.0136 ppm | 0.0008 ppm | 0.0012 ppm |
| Concentration RSD | 38.6 % | 0.6 % | 22.9 % | 0.4 % | 1.7 % | 133.1 % | 10.8 % |

| | 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 | 0.0227 ppm | 90.6223 % | 96.1616 % | 82.6549 % | 91.6284 % | 97.0625 % | 91.0280 % |
| Concentration per Run 1 | 0.0227 ppm | 90.4045 % | 96.4753 % | 82.4878 % | 92.2217 % | 97.1595 % | 91.3225 % |
| Concentration per Run 2 | 0.0228 ppm | 90.4462 % | 96.3173 % | 82.8913 % | 91.3260 % | 97.0607 % | 91.1886 % |
| Concentration per Run 3 | 0.0226 ppm | 91.0161 % | 95.6922 % | 82.5857 % | 91.3374 % | 96.9671 % | 90.5731 % |
| Concentration RSD | 0.5 % | 0.4 % | 0.4 % | 0.3 % | 0.6 % | 0.1 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473740-03 WG2012266
Analysis started at: 12/23/2024 12:03:11 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 | -0.0001 ppm | 0.0524 ppm | 0.0001 ppm | 0.0251 ppm | 0.0557 ppm | 0.0000 ppm | 28.1557 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0533 ppm | -0.0005 ppm | 0.0249 ppm | 0.0559 ppm | 0.0000 ppm | 28.2997 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0487 ppm | 0.0003 ppm | 0.0246 ppm | 0.0557 ppm | 0.0000 ppm | 28.0024 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0553 ppm | 0.0005 ppm | 0.0259 ppm | 0.0556 ppm | 0.0000 ppm | 28.1649 ppm |
| Concentration RSD | 47.7 % | 6.4 % | 425.3 % | 2.8 % | 0.3 % | 191.3 % | 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 | -0.0001 ppm | 0.0002 ppm | 0.0005 ppm | 0.0029 ppm | 0.5095 ppm | 5.1741 ppm | 0.0105 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0004 ppm | 0.0005 ppm | 0.0029 ppm | 0.5091 ppm | 5.1649 ppm | 0.0116 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0002 ppm | 0.0005 ppm | 0.0027 ppm | 0.5075 ppm | 5.1491 ppm | 0.0101 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0000 ppm | 0.0004 ppm | 0.0032 ppm | 0.5119 ppm | 5.2082 ppm | 0.0099 ppm |
| Concentration RSD | 57.8 % | 110.5 % | 11.0 % | 9.7 % | 0.4 % | 0.6 % | 8.9 % |

| | 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 | 6.1699 ppm | 0.0489 ppm | 0.0023 ppm | 182.6826 ppm | 0.0010 ppm | 0.0019 ppm | 0.0021 ppm |
| Concentration per Run 1 | 6.2224 ppm | 0.0490 ppm | 0.0022 ppm | 183.0737 ppm | 0.0009 ppm | 0.0015 ppm | 0.0014 ppm |
| Concentration per Run 2 | 6.1348 ppm | 0.0488 ppm | 0.0021 ppm | 181.5546 ppm | 0.0012 ppm | 0.0014 ppm | 0.0030 ppm |
| Concentration per Run 3 | 6.1524 ppm | 0.0490 ppm | 0.0025 ppm | 183.4194 ppm | 0.0008 ppm | 0.0029 ppm | 0.0020 ppm |
| Concentration RSD | 0.8 % | 0.2 % | 9.8 % | 0.5 % | 21.2 % | 42.7 % | 36.1 % |

| | 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 | 0.0015 ppm | 5.8726 ppm | 0.0012 ppm | 0.1966 ppm | 0.0023 ppm | -0.0003 ppm | 0.0007 ppm |
| Concentration per Run 1 | 0.0013 ppm | 5.9396 ppm | 0.0013 ppm | 0.1978 ppm | 0.0024 ppm | -0.0015 ppm | 0.0006 ppm |
| Concentration per Run 2 | 0.0015 ppm | 5.8440 ppm | 0.0017 ppm | 0.1959 ppm | 0.0021 ppm | 0.0005 ppm | 0.0008 ppm |
| Concentration per Run 3 | 0.0017 ppm | 5.8343 ppm | 0.0006 ppm | 0.1960 ppm | 0.0024 ppm | 0.0000 ppm | 0.0006 ppm |
| Concentration RSD | 12.4 % | 1.0 % | 45.0 % | 0.5 % | 7.7 % | 334.4 % | 17.6 % |

| | 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 | 0.0425 ppm | 89.6271 % | 95.8810 % | 81.7429 % | 90.5230 % | 96.6540 % | 90.5415 % |
| Concentration per Run 1 | 0.0429 ppm | 88.9566 % | 95.5378 % | 81.3944 % | 90.5457 % | 96.8179 % | 90.9076 % |
| Concentration per Run 2 | 0.0429 ppm | 89.9883 % | 96.2731 % | 81.7685 % | 90.9069 % | 96.7225 % | 90.2504 % |
| Concentration per Run 3 | 0.0418 ppm | 89.9365 % | 95.8321 % | 82.0657 % | 90.1165 % | 96.4215 % | 90.4665 % |
| Concentration RSD | 1.4 % | 0.6 % | 0.4 % | 0.4 % | 0.4 % | 0.2 % | 0.4 % |

# iCAP Pro Trace 8 Data report
12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473740-04 WG2012266
Analysis started at: 12/23/2024 12:07:37 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 | -0.0002 ppm | 0.0441 ppm | 0.0001 ppm | 0.0249 ppm | 0.0525 ppm | 0.0000 ppm | 39.1686 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0486 ppm | 0.0009 ppm | 0.0257 ppm | 0.0527 ppm | 0.0000 ppm | 39.1932 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0400 ppm | 0.0008 ppm | 0.0247 ppm | 0.0521 ppm | 0.0000 ppm | 39.1908 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0438 ppm | -0.0014 ppm | 0.0244 ppm | 0.0526 ppm | 0.0000 ppm | 39.1217 ppm |
| Concentration RSD | 48.2 % | 9.8 % | 1,144.1 % | 2.6 % | 0.7 % | 30.0 % | 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 | -0.0002 ppm | 0.0000 ppm | 0.0002 ppm | 0.0034 ppm | 0.4288 ppm | 4.1205 ppm | 0.0034 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0002 ppm | 0.0002 ppm | 0.0035 ppm | 0.4285 ppm | 4.1530 ppm | 0.0047 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0000 ppm | 0.0002 ppm | 0.0033 ppm | 0.4294 ppm | 4.0893 ppm | 0.0027 ppm |
| Concentration per Run 3 | -0.0002 ppm | -0.0002 ppm | 0.0002 ppm | 0.0034 ppm | 0.4284 ppm | 4.1193 ppm | 0.0028 ppm |
| Concentration RSD | 10.5 % | 863.1 % | 6.9 % | 2.4 % | 0.1 % | 0.8 % | 32.2 % |

| | 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 | 9.0483 ppm | 0.1937 ppm | 0.0013 ppm | 149.7161 ppm | 0.0007 ppm | 0.0014 ppm | 0.0017 ppm |
| Concentration per Run 1 | 9.1103 ppm | 0.1943 ppm | 0.0012 ppm | 150.3442 ppm | 0.0008 ppm | 0.0014 ppm | 0.0016 ppm |
| Concentration per Run 2 | 9.0672 ppm | 0.1938 ppm | 0.0012 ppm | 149.0650 ppm | 0.0011 ppm | 0.0011 ppm | 0.0011 ppm |
| Concentration per Run 3 | 8.9675 ppm | 0.1931 ppm | 0.0014 ppm | 149.7390 ppm | 0.0003 ppm | 0.0016 ppm | 0.0024 ppm |
| Concentration RSD | 0.8 % | 0.3 % | 11.1 % | 0.4 % | 54.4 % | 16.6 % | 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 | 0.0012 ppm | 5.9143 ppm | 0.0003 ppm | 0.2761 ppm | 0.0019 ppm | -0.0002 ppm | 0.0006 ppm |
| Concentration per Run 1 | 0.0003 ppm | 5.9539 ppm | 0.0005 ppm | 0.2768 ppm | 0.0020 ppm | 0.0003 ppm | 0.0007 ppm |
| Concentration per Run 2 | 0.0019 ppm | 5.8964 ppm | 0.0002 ppm | 0.2743 ppm | 0.0019 ppm | -0.0002 ppm | 0.0005 ppm |
| Concentration per Run 3 | 0.0014 ppm | 5.8927 ppm | 0.0000 ppm | 0.2771 ppm | 0.0017 ppm | -0.0008 ppm | 0.0006 ppm |
| Concentration RSD | 70.4 % | 0.6 % | 97.3 % | 0.5 % | 7.1 % | 267.0 % | 13.6 % |

| | 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 | 0.0248 ppm | 90.3291 % | 96.2487 % | 82.4819 % | 91.2381 % | 97.2063 % | 90.6726 % |
| Concentration per Run 1 | 0.0249 ppm | 89.7772 % | 96.3228 % | 82.2177 % | 91.3878 % | 97.4836 % | 90.6672 % |
| Concentration per Run 2 | 0.0250 ppm | 90.5881 % | 95.8633 % | 82.2994 % | 91.4451 % | 96.7297 % | 90.6448 % |
| Concentration per Run 3 | 0.0244 ppm | 90.6221 % | 96.5601 % | 82.9286 % | 90.8813 % | 97.4056 % | 90.7058 % |
| Concentration RSD | 1.3 % | 0.5 % | 0.4 % | 0.5 % | 0.3 % | 0.4 % | 0.0 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473740-01 WG2012266
Analysis started at: 12/23/2024 12:12:03 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 | -0.0001 ppm | 0.0096 ppm | -0.0010 ppm | 0.0162 ppm | 0.0363 ppm | 0.0000 ppm | 19.2740 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0090 ppm | -0.0007 ppm | 0.0164 ppm | 0.0364 ppm | 0.0000 ppm | 19.2951 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0131 ppm | -0.0012 ppm | 0.0163 ppm | 0.0364 ppm | 0.0000 ppm | 19.3436 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0068 ppm | -0.0010 ppm | 0.0160 ppm | 0.0360 ppm | 0.0000 ppm | 19.1835 ppm |
| Concentration RSD | 31.1 % | 32.9 % | 24.2 % | 1.2 % | 0.6 % | 259.2 % | 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 | -0.0001 ppm | 0.0000 ppm | 0.0001 ppm | 0.0003 ppm | 0.1419 ppm | 3.6849 ppm | -0.0001 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0001 ppm | -0.0001 ppm | 0.0001 ppm | 0.1403 ppm | 3.6896 ppm | 0.0005 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0002 ppm | 0.0002 ppm | 0.0005 ppm | 0.1431 ppm | 3.6798 ppm | -0.0007 ppm |
| Concentration per Run 3 | -0.0003 ppm | -0.0002 ppm | 0.0001 ppm | 0.0005 ppm | 0.1424 ppm | 3.6855 ppm | -0.0001 ppm |
| Concentration RSD | 94.2 % | 974.0 % | 315.4 % | 70.7 % | 1.0 % | 0.1 % | 550.5 % |

| | 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 | 6.1491 ppm | 0.0491 ppm | 0.0000 ppm | 105.1576 ppm | 0.0004 ppm | 0.0001 ppm | 0.0023 ppm |
| Concentration per Run 1 | 6.1702 ppm | 0.0492 ppm | 0.0000 ppm | 105.5245 ppm | 0.0004 ppm | -0.0005 ppm | 0.0026 ppm |
| Concentration per Run 2 | 6.1479 ppm | 0.0493 ppm | 0.0001 ppm | 105.2672 ppm | 0.0001 ppm | 0.0003 ppm | 0.0026 ppm |
| Concentration per Run 3 | 6.1290 ppm | 0.0488 ppm | -0.0001 ppm | 104.6810 ppm | 0.0007 ppm | 0.0005 ppm | 0.0019 ppm |
| Concentration RSD | 0.3 % | 0.6 % | 304.5 % | 0.4 % | 73.4 % | 707.5 % | 16.6 % |

| | 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 | 0.0001 ppm | 4.0474 ppm | 0.0002 ppm | 0.1702 ppm | 0.0004 ppm | -0.0001 ppm | 0.0003 ppm |
| Concentration per Run 1 | 0.0016 ppm | 4.0458 ppm | 0.0000 ppm | 0.1699 ppm | 0.0004 ppm | 0.0001 ppm | 0.0003 ppm |
| Concentration per Run 2 | -0.0013 ppm | 4.0677 ppm | 0.0008 ppm | 0.1710 ppm | 0.0004 ppm | -0.0002 ppm | 0.0004 ppm |
| Concentration per Run 3 | 0.0000 ppm | 4.0286 ppm | -0.0002 ppm | 0.1697 ppm | 0.0005 ppm | -0.0001 ppm | 0.0003 ppm |
| Concentration RSD | 1,608.6 % | 0.5 % | 235.3 % | 0.4 % | 12.4 % | 167.7 % | 11.9 % |

| | 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 | 0.0143 ppm | 91.8782 % | 96.5295 % | 85.2895 % | 93.2447 % | 97.4951 % | 92.6436 % |
| Concentration per Run 1 | 0.0143 ppm | 91.4230 % | 96.9752 % | 85.0077 % | 93.5213 % | 98.1987 % | 92.8862 % |
| Concentration per Run 2 | 0.0141 ppm | 91.9172 % | 96.2696 % | 85.3779 % | 93.1264 % | 97.4345 % | 92.8688 % |
| Concentration per Run 3 | 0.0144 ppm | 92.2944 % | 96.3437 % | 85.4829 % | 93.0864 % | 96.8519 % | 92.1758 % |
| Concentration RSD | 0.9 % | 0.5 % | 0.4 % | 0.3 % | 0.3 % | 0.7 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012266-7 WG2012266
Analysis started at: 12/23/2024 12:16:27 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 | 0.0534 ppm | 2.2929 ppm | 0.1244 ppm | 0.9794 ppm | 2.1487 ppm | 0.0522 ppm | 29.3843 ppm |
| Concentration per Run 1 | 0.0538 ppm | 2.3094 ppm | 0.1238 ppm | 0.9899 ppm | 2.1616 ppm | 0.0525 ppm | 29.5065 ppm |
| Concentration per Run 2 | 0.0533 ppm | 2.2881 ppm | 0.1264 ppm | 0.9775 ppm | 2.1357 ppm | 0.0521 ppm | 29.3617 ppm |
| Concentration per Run 3 | 0.0531 ppm | 2.2811 ppm | 0.1229 ppm | 0.9710 ppm | 2.1488 ppm | 0.0521 ppm | 29.2847 ppm |
| Concentration RSD | 0.6 % | 0.6 % | 1.5 % | 1.0 % | 0.6 % | 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 | 0.0546 ppm | 0.5140 ppm | 0.2061 ppm | 0.2700 ppm | 1.1399 ppm | 15.5088 ppm | 0.0004 ppm |
| Concentration per Run 1 | 0.0551 ppm | 0.5176 ppm | 0.2081 ppm | 0.2718 ppm | 1.1467 ppm | 15.6282 ppm | 0.0009 ppm |
| Concentration per Run 2 | 0.0546 ppm | 0.5132 ppm | 0.2063 ppm | 0.2700 ppm | 1.1370 ppm | 15.4039 ppm | 0.0002 ppm |
| Concentration per Run 3 | 0.0541 ppm | 0.5114 ppm | 0.2038 ppm | 0.2682 ppm | 1.1358 ppm | 15.4943 ppm | 0.0000 ppm |
| Concentration RSD | 0.9 % | 0.6 % | 1.0 % | 0.7 % | 0.5 % | 0.7 % | 128.2 % |

| | 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 | 16.2723 ppm | 0.5499 ppm | 0.8807 ppm | 117.6718 ppm | 0.5021 ppm | 0.5735 ppm | 0.4615 ppm |
| Concentration per Run 1 | 16.4128 ppm | 0.5518 ppm | 0.8801 ppm | 118.1193 ppm | 0.5064 ppm | 0.5766 ppm | 0.4639 ppm |
| Concentration per Run 2 | 16.2473 ppm | 0.5498 ppm | 0.8773 ppm | 117.0515 ppm | 0.5009 ppm | 0.5711 ppm | 0.4580 ppm |
| Concentration per Run 3 | 16.1569 ppm | 0.5481 ppm | 0.8847 ppm | 117.8445 ppm | 0.4989 ppm | 0.5730 ppm | 0.4626 ppm |
| Concentration RSD | 0.8 % | 0.3 % | 0.4 % | 0.5 % | 0.8 % | 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 | 0.1281 ppm | 5.1860 ppm | 0.9957 ppm | 1.2239 ppm | 1.0335 ppm | 0.1295 ppm | 0.5483 ppm |
| Concentration per Run 1 | 0.1274 ppm | 5.2298 ppm | 1.0016 ppm | 1.2310 ppm | 1.0425 ppm | 0.1289 ppm | 0.5522 ppm |
| Concentration per Run 2 | 0.1280 ppm | 5.1812 ppm | 0.9919 ppm | 1.2189 ppm | 1.0331 ppm | 0.1301 ppm | 0.5480 ppm |
| Concentration per Run 3 | 0.1289 ppm | 5.1469 ppm | 0.9937 ppm | 1.2217 ppm | 1.0247 ppm | 0.1295 ppm | 0.5445 ppm |
| Concentration RSD | 0.6 % | 0.8 % | 0.5 % | 0.5 % | 0.9 % | 0.5 % | 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 | 0.5301 ppm | 91.9610 % | 97.4441 % | 82.4390 % | 92.0231 % | 97.2456 % | 91.1866 % |
| Concentration per Run 1 | 0.5358 ppm | 91.1175 % | 97.1094 % | 82.1724 % | 91.9072 % | 97.3191 % | 91.1853 % |
| Concentration per Run 2 | 0.5279 ppm | 92.0959 % | 97.0142 % | 82.5089 % | 92.0941 % | 96.8536 % | 91.3366 % |
| Concentration per Run 3 | 0.5266 ppm | 92.6697 % | 98.2087 % | 82.6357 % | 92.0679 % | 97.5640 % | 91.0379 % |
| Concentration RSD | 0.9 % | 0.9 % | 0.7 % | 0.3 % | 0.1 % | 0.4 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012266-8 WG2012266
Analysis started at: 12/23/2024 12:20:51 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 | -0.0002 ppm | 0.0167 ppm | -0.0011 ppm | 0.0180 ppm | 0.0380 ppm | 0.0000 ppm | 20.0528 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0194 ppm | -0.0011 ppm | 0.0182 ppm | 0.0381 ppm | 0.0000 ppm | 20.1635 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0152 ppm | -0.0007 ppm | 0.0179 ppm | 0.0379 ppm | 0.0000 ppm | 19.9825 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0156 ppm | -0.0014 ppm | 0.0179 ppm | 0.0379 ppm | 0.0000 ppm | 20.0125 ppm |
| Concentration RSD | 49.3 % | 14.1 % | 30.7 % | 1.0 % | 0.4 % | 406.5 % | 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 | -0.0001 ppm | -0.0002 ppm | 0.0001 ppm | 0.0003 ppm | 0.1328 ppm | 3.8766 ppm | -0.0003 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0002 ppm | 0.0001 ppm | 0.0002 ppm | 0.1342 ppm | 3.8801 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0002 ppm | -0.0001 ppm | 0.0001 ppm | 0.0004 ppm | 0.1313 ppm | 3.8405 ppm | -0.0001 ppm |
| Concentration per Run 3 | -0.0002 ppm | -0.0003 ppm | 0.0003 ppm | 0.0004 ppm | 0.1330 ppm | 3.9091 ppm | -0.0009 ppm |
| Concentration RSD | 69.1 % | 47.2 % | 77.0 % | 40.0 % | 1.1 % | 0.9 % | 183.2 % |

| | 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 | 6.3955 ppm | 0.0511 ppm | 0.0071 ppm | 110.9172 ppm | 0.0001 ppm | 0.0003 ppm | 0.0045 ppm |
| Concentration per Run 1 | 6.4387 ppm | 0.0513 ppm | 0.0073 ppm | 110.6827 ppm | 0.0000 ppm | 0.0003 ppm | 0.0045 ppm |
| Concentration per Run 2 | 6.4117 ppm | 0.0510 ppm | 0.0066 ppm | 111.2334 ppm | 0.0000 ppm | 0.0001 ppm | 0.0042 ppm |
| Concentration per Run 3 | 6.3362 ppm | 0.0510 ppm | 0.0073 ppm | 110.8353 ppm | 0.0002 ppm | 0.0006 ppm | 0.0049 ppm |
| Concentration RSD | 0.8 % | 0.4 % | 5.7 % | 0.3 % | 146.2 % | 70.1 % | 7.4 % |

| | 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 | 0.0009 ppm | 4.2311 ppm | 0.0038 ppm | 0.1765 ppm | 0.0006 ppm | -0.0007 ppm | 0.0003 ppm |
| Concentration per Run 1 | 0.0007 ppm | 4.2472 ppm | 0.0040 ppm | 0.1768 ppm | 0.0008 ppm | -0.0002 ppm | 0.0004 ppm |
| Concentration per Run 2 | -0.0006 ppm | 4.2377 ppm | 0.0031 ppm | 0.1767 ppm | 0.0006 ppm | -0.0012 ppm | 0.0004 ppm |
| Concentration per Run 3 | 0.0025 ppm | 4.2084 ppm | 0.0043 ppm | 0.1761 ppm | 0.0006 ppm | -0.0006 ppm | 0.0002 ppm |
| Concentration RSD | 172.3 % | 0.5 % | 16.1 % | 0.2 % | 18.2 % | 72.3 % | 34.8 % |

| | 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 | 0.0148 ppm | 91.5895 % | 96.3367 % | 84.5435 % | 92.8420 % | 97.6632 % | 92.1314 % |
| Concentration per Run 1 | 0.0146 ppm | 91.2487 % | 95.9459 % | 84.2402 % | 93.0357 % | 97.5421 % | 92.2522 % |
| Concentration per Run 2 | 0.0148 ppm | 91.5209 % | 96.7683 % | 84.6345 % | 92.7359 % | 97.9484 % | 92.2571 % |
| Concentration per Run 3 | 0.0149 ppm | 91.9989 % | 96.2960 % | 84.7558 % | 92.7545 % | 97.4992 % | 91.8848 % |
| Concentration RSD | 1.2 % | 0.4 % | 0.4 % | 0.3 % | 0.2 % | 0.3 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012266-9 WG2012266
Analysis started at: 12/23/2024 12:25:16 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 | 0.0514 ppm | 2.0782 ppm | 0.1186 ppm | 0.9708 ppm | 2.0400 ppm | 0.0496 ppm | 28.3388 ppm |
| Concentration per Run 1 | 0.0520 ppm | 2.0741 ppm | 0.1182 ppm | 0.9771 ppm | 2.0411 ppm | 0.0498 ppm | 28.4976 ppm |
| Concentration per Run 2 | 0.0513 ppm | 2.0875 ppm | 0.1186 ppm | 0.9728 ppm | 2.0386 ppm | 0.0496 ppm | 28.3949 ppm |
| Concentration per Run 3 | 0.0508 ppm | 2.0729 ppm | 0.1189 ppm | 0.9624 ppm | 2.0405 ppm | 0.0493 ppm | 28.1239 ppm |
| Concentration RSD | 1.2 % | 0.4 % | 0.3 % | 0.8 % | 0.1 % | 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 | 0.0514 ppm | 0.4907 ppm | 0.1951 ppm | 0.2590 ppm | 1.1070 ppm | 15.1070 ppm | 0.0003 ppm |
| Concentration per Run 1 | 0.0517 ppm | 0.4938 ppm | 0.1970 ppm | 0.2605 ppm | 1.1133 ppm | 14.8959 ppm | 0.0004 ppm |
| Concentration per Run 2 | 0.0515 ppm | 0.4914 ppm | 0.1955 ppm | 0.2579 ppm | 1.1096 ppm | 15.2242 ppm | 0.0003 ppm |
| Concentration per Run 3 | 0.0510 ppm | 0.4869 ppm | 0.1929 ppm | 0.2587 ppm | 1.0981 ppm | 15.2010 ppm | 0.0002 ppm |
| Concentration RSD | 0.7 % | 0.7 % | 1.1 % | 0.5 % | 0.7 % | 1.2 % | 33.0 % |

| | 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 | 15.9065 ppm | 0.5336 ppm | 0.8624 ppm | 112.5145 ppm | 0.4917 ppm | 0.5469 ppm | 0.3812 ppm |
| Concentration per Run 1 | 16.0764 ppm | 0.5355 ppm | 0.8610 ppm | 110.4435 ppm | 0.4959 ppm | 0.5482 ppm | 0.3793 ppm |
| Concentration per Run 2 | 15.8642 ppm | 0.5345 ppm | 0.8611 ppm | 113.5128 ppm | 0.4936 ppm | 0.5461 ppm | 0.3811 ppm |
| Concentration per Run 3 | 15.7788 ppm | 0.5307 ppm | 0.8650 ppm | 113.5873 ppm | 0.4858 ppm | 0.5465 ppm | 0.3831 ppm |
| Concentration RSD | 1.0 % | 0.5 % | 0.3 % | 1.6 % | 1.1 % | 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 | 0.1209 ppm | 4.6368 ppm | 0.9665 ppm | 1.1972 ppm | 1.0158 ppm | 0.1220 ppm | 0.5219 ppm |
| Concentration per Run 1 | 0.1227 ppm | 4.6661 ppm | 0.9731 ppm | 1.1973 ppm | 1.0253 ppm | 0.1239 ppm | 0.5268 ppm |
| Concentration per Run 2 | 0.1222 ppm | 4.6331 ppm | 0.9667 ppm | 1.1992 ppm | 1.0134 ppm | 0.1206 ppm | 0.5215 ppm |
| Concentration per Run 3 | 0.1178 ppm | 4.6112 ppm | 0.9597 ppm | 1.1951 ppm | 1.0086 ppm | 0.1216 ppm | 0.5175 ppm |
| Concentration RSD | 2.2 % | 0.6 % | 0.7 % | 0.2 % | 0.8 % | 1.4 % | 0.9 % |

| | 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 | 0.5122 ppm | 91.8778 % | 97.3108 % | 82.9358 % | 91.8280 % | 96.8705 % | 91.4448 % |
| Concentration per Run 1 | 0.5185 ppm | 91.1242 % | 96.7181 % | 82.2274 % | 91.8584 % | 96.3559 % | 91.1462 % |
| Concentration per Run 2 | 0.5131 ppm | 91.7699 % | 97.2361 % | 83.1069 % | 91.5107 % | 96.9925 % | 91.4916 % |
| Concentration per Run 3 | 0.5050 ppm | 92.7392 % | 97.9781 % | 83.4730 % | 92.1149 % | 97.2630 % | 91.6967 % |
| Concentration RSD | 1.3 % | 0.9 % | 0.7 % | 0.8 % | 0.3 % | 0.5 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012266-10D5 WG2012266
Analysis started at: 12/23/2024 12:29:40 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 | -0.0001 ppm | -0.0015 ppm | -0.0010 ppm | 0.0038 ppm | 0.0073 ppm | 0.0000 ppm | 3.8140 ppm |
| Concentration per Run 1 | -0.0002 ppm | -0.0037 ppm | -0.0015 ppm | 0.0031 ppm | 0.0073 ppm | 0.0000 ppm | 3.7987 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0013 ppm | 0.0004 ppm | 0.0036 ppm | 0.0073 ppm | 0.0000 ppm | 3.8130 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0022 ppm | -0.0019 ppm | 0.0045 ppm | 0.0072 ppm | 0.0000 ppm | 3.8302 ppm |
| Concentration RSD | 64.3 % | 166.0 % | 118.4 % | 18.9 % | 0.5 % | 282.1 % | 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 | 0.0000 ppm | 0.0000 ppm | 0.0002 ppm | 0.0000 ppm | 0.0305 ppm | 0.7391 ppm | 0.0005 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0002 ppm | 0.0002 ppm | -0.0001 ppm | 0.0307 ppm | 0.7551 ppm | 0.0006 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0001 ppm | 0.0004 ppm | 0.0001 ppm | 0.0308 ppm | 0.7346 ppm | 0.0004 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0003 ppm | 0.0000 ppm | 0.0001 ppm | 0.0299 ppm | 0.7277 ppm | 0.0005 ppm |
| Concentration RSD | 168.6 % | 21,362.1 % | 96.7 % | 388.1 % | 1.6 % | 1.9 % | 22.0 % |

| | 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 | 1.2103 ppm | 0.0097 ppm | 0.0089 ppm | 21.1314 ppm | -0.0002 ppm | 0.0000 ppm | 0.0146 ppm |
| Concentration per Run 1 | 1.2271 ppm | 0.0097 ppm | 0.0090 ppm | 21.4946 ppm | -0.0002 ppm | 0.0001 ppm | 0.0144 ppm |
| Concentration per Run 2 | 1.2049 ppm | 0.0097 ppm | 0.0087 ppm | 21.0178 ppm | 0.0001 ppm | 0.0004 ppm | 0.0136 ppm |
| Concentration per Run 3 | 1.1988 ppm | 0.0098 ppm | 0.0089 ppm | 20.8820 ppm | -0.0004 ppm | -0.0004 ppm | 0.0158 ppm |
| Concentration RSD | 1.2 % | 0.3 % | 1.4 % | 1.5 % | 127.2 % | 854.6 % | 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 | -0.0003 ppm | 0.7664 ppm | 0.0070 ppm | 0.0333 ppm | 0.0004 ppm | 0.0001 ppm | 0.0000 ppm |
| Concentration per Run 1 | -0.0005 ppm | 0.7734 ppm | 0.0070 ppm | 0.0333 ppm | 0.0004 ppm | 0.0006 ppm | 0.0001 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.7674 ppm | 0.0076 ppm | 0.0335 ppm | 0.0003 ppm | -0.0002 ppm | 0.0000 ppm |
| Concentration per Run 3 | -0.0005 ppm | 0.7583 ppm | 0.0062 ppm | 0.0333 ppm | 0.0004 ppm | 0.0000 ppm | 0.0001 ppm |
| Concentration RSD | 115.5 % | 1.0 % | 9.7 % | 0.4 % | 19.2 % | 362.3 % | 158.0 % |

| | 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 | 0.0030 ppm | 98.5588 % | 100.1560 % | 94.3959 % | 97.1267 % | 98.9619 % | 95.9559 % |
| Concentration per Run 1 | 0.0033 ppm | 97.5539 % | 100.8903 % | 94.0006 % | 96.5041 % | 99.4445 % | 95.9828 % |
| Concentration per Run 2 | 0.0031 ppm | 98.8877 % | 100.1838 % | 94.6258 % | 97.7146 % | 99.0368 % | 96.0076 % |
| Concentration per Run 3 | 0.0027 ppm | 99.2348 % | 99.3938 % | 94.5612 % | 97.1614 % | 98.4045 % | 95.8774 % |
| Concentration RSD | 9.4 % | 0.9 % | 0.7 % | 0.4 % | 0.6 % | 0.5 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 12:34:05 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 | 0.4882 ppm | 0.4968 ppm | 0.4783 ppm | 0.4504 ppm | 0.5055 ppm | 0.5007 ppm | 0.4926 ppm |
| Concentration per Run 1 | 0.4916 ppm | 0.4945 ppm | 0.4800 ppm | 0.4499 ppm | 0.5038 ppm | 0.5013 ppm | 0.4949 ppm |
| Concentration per Run 2 | 0.4873 ppm | 0.4992 ppm | 0.4774 ppm | 0.4510 ppm | 0.5067 ppm | 0.5022 ppm | 0.4950 ppm |
| Concentration per Run 3 | 0.4856 ppm | 0.4966 ppm | 0.4776 ppm | 0.4504 ppm | 0.5059 ppm | 0.4985 ppm | 0.4880 ppm |
| Recovery Percentage 1 | 97.641 % | 99.359 % | 95.669 % | 90.080 % | 101.092 % | 100.136 % | 98.528 % |
| Concentration RSD | 0.6 % | 0.5 % | 0.3 % | 0.1 % | 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 | 0.4849 ppm | 0.4997 ppm | 0.4839 ppm | 0.4938 ppm | 0.4984 ppm | 5.4740 ppm | 0.5303 ppm |
| Concentration per Run 1 | 0.4862 ppm | 0.5006 ppm | 0.4841 ppm | 0.4938 ppm | 0.5002 ppm | 5.4302 ppm | 0.5260 ppm |
| Concentration per Run 2 | 0.4848 ppm | 0.4995 ppm | 0.4848 ppm | 0.4936 ppm | 0.5003 ppm | 5.4928 ppm | 0.5306 ppm |
| Concentration per Run 3 | 0.4838 ppm | 0.4989 ppm | 0.4829 ppm | 0.4942 ppm | 0.4949 ppm | 5.4991 ppm | 0.5342 ppm |
| Recovery Percentage 1 | 96.987 % | 99.936 % | 96.789 % | 98.770 % | 99.689 % | 109.481 % | 106.051 % |
| Concentration RSD | 0.3 % | 0.2 % | 0.2 % | 0.1 % | 0.6 % | 0.7 % | 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 | 0.4895 ppm | 0.4859 ppm | 0.4860 ppm | 11.0862 ppm | 0.4986 ppm | 0.4964 ppm | 0.5063 ppm |
| Concentration per Run 1 | 0.4916 ppm | 0.4873 ppm | 0.4844 ppm | 10.9386 ppm | 0.4991 ppm | 0.4955 ppm | 0.5058 ppm |
| Concentration per Run 2 | 0.4872 ppm | 0.4874 ppm | 0.4850 ppm | 11.1253 ppm | 0.4992 ppm | 0.4951 ppm | 0.5043 ppm |
| Concentration per Run 3 | 0.4898 ppm | 0.4830 ppm | 0.4885 ppm | 11.1948 ppm | 0.4975 ppm | 0.4988 ppm | 0.5087 ppm |
| Recovery Percentage 1 | 97.908 % | 97.186 % | 97.191 % | 110.862 % | 99.717 % | 99.287 % | 101.256 % |
| Concentration RSD | 0.4 % | 0.5 % | 0.5 % | 1.2 % | 0.2 % | 0.4 % | 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 | 0.4913 ppm | 5.1604 ppm | 0.5079 ppm | 0.5114 ppm | 0.4851 ppm | 0.5020 ppm | 0.4986 ppm |
| Concentration per Run 1 | 0.4927 ppm | 5.1513 ppm | 0.5076 ppm | 0.5098 ppm | 0.4858 ppm | 0.5015 ppm | 0.5004 ppm |
| Concentration per Run 2 | 0.4882 ppm | 5.1673 ppm | 0.5074 ppm | 0.5141 ppm | 0.4855 ppm | 0.4991 ppm | 0.4980 ppm |
| Concentration per Run 3 | 0.4930 ppm | 5.1625 ppm | 0.5087 ppm | 0.5104 ppm | 0.4840 ppm | 0.5055 ppm | 0.4973 ppm |
| Recovery Percentage 1 | 98.259 % | 98.292 % | 101.584 % | 102.290 % | 97.027 % | 100.406 % | 99.712 % |
| Concentration RSD | 0.5 % | 0.2 % | 0.1 % | 0.5 % | 0.2 % | 0.6 % | 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 | 0.4854 ppm | 101.1903 % | 101.0684 % | 95.5634 % | 97.0297 % | 98.6497 % | 96.5645 % |
| Concentration per Run 1 | 0.4866 ppm | 101.1543 % | 100.5536 % | 95.5713 % | 97.3939 % | 98.0453 % | 96.5400 % |
| Concentration per Run 2 | 0.4855 ppm | 101.0320 % | 101.0617 % | 95.7365 % | 96.6436 % | 99.0526 % | 96.6057 % |
| Concentration per Run 3 | 0.4840 ppm | 101.3845 % | 101.5899 % | 95.3823 % | 97.0516 % | 98.8511 % | 96.5477 % |
| Recovery Percentage 1 | 97.075 % | | | | | | |
| Concentration RSD | 0.3 % | 0.2 % | 0.5 % | 0.2 % | 0.4 % | 0.5 % | 0.0 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 12:38:30 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 | -0.0061 ppm | -0.0004 ppm | 0.0005 ppm | 0.0000 ppm | 0.0000 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0002 ppm | -0.0066 ppm | -0.0005 ppm | 0.0002 ppm | 0.0000 ppm | 0.0000 ppm | 0.0009 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0045 ppm | 0.0009 ppm | 0.0009 ppm | 0.0000 ppm | 0.0000 ppm | 0.0010 ppm |
| Concentration per Run 3 | -0.0002 ppm | -0.0072 ppm | -0.0015 ppm | 0.0005 ppm | 0.0000 ppm | 0.0000 ppm | -0.0014 ppm |
| Recovery Percentage 1 | -3.329 % | -6.119 % | -7.932 % | 1.726 % | 0.258 % | 0.542 % | 0.148 % |
| Concentration RSD | 25.4 % | 23.2 % | 304.0 % | 65.5 % | 27.1 % | 27.9 % | 922.7 % |

| | 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 | 0.0001 ppm | -0.0003 ppm | 0.0006 ppm | 0.0203 ppm | -0.0005 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0000 ppm | 0.0002 ppm | -0.0004 ppm | 0.0013 ppm | 0.0239 ppm | -0.0006 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0001 ppm | 0.0000 ppm | -0.0002 ppm | -0.0002 ppm | 0.0296 ppm | -0.0003 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0002 ppm | -0.0001 ppm | -0.0004 ppm | 0.0008 ppm | 0.0073 ppm | -0.0007 ppm |
| Recovery Percentage 1 | 1.106 % | 0.506 % | 0.586 % | -3.410 % | 1.282 % | 0.811 % | -5.280 % |
| Concentration RSD | 59.2 % | 288.4 % | 234.3 % | 34.7 % | 125.2 % | 57.3 % | 38.2 % |

| | 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 | -0.0013 ppm | 0.0001 ppm | 0.0028 ppm | 0.0521 ppm | 0.0000 ppm | 0.0006 ppm | 0.0022 ppm |
| Concentration per Run 1 | -0.0015 ppm | 0.0001 ppm | 0.0026 ppm | 0.0517 ppm | 0.0004 ppm | 0.0008 ppm | 0.0015 ppm |
| Concentration per Run 2 | -0.0022 ppm | 0.0001 ppm | 0.0029 ppm | 0.0527 ppm | -0.0005 ppm | 0.0007 ppm | 0.0032 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0001 ppm | 0.0027 ppm | 0.0520 ppm | 0.0001 ppm | 0.0005 ppm | 0.0021 ppm |
| Recovery Percentage 1 | -1.274 % | 1.054 % | 5.501 % | 2.607 % | -0.069 % | 6.333 % | 4.480 % |
| Concentration RSD | 85.1 % | 25.7 % | 6.6 % | 1.0 % | 2,629.4 % | 22.6 % | 38.3 % |

| | 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 | 0.0007 ppm | -0.0001 ppm | 0.0011 ppm | 0.0001 ppm | 0.0001 ppm | -0.0005 ppm | 0.0000 ppm |
| Concentration per Run 1 | 0.0027 ppm | -0.0003 ppm | 0.0012 ppm | 0.0001 ppm | 0.0002 ppm | -0.0005 ppm | 0.0000 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0002 ppm | 0.0008 ppm | 0.0001 ppm | -0.0001 ppm | 0.0001 ppm | -0.0001 ppm |
| Concentration per Run 3 | -0.0005 ppm | -0.0003 ppm | 0.0011 ppm | 0.0001 ppm | 0.0002 ppm | -0.0010 ppm | 0.0001 ppm |
| Recovery Percentage 1 | 7.401 % | -0.027 % | 2.132 % | 0.820 % | 1.134 % | -2.502 % | 0.193 % |
| Concentration RSD | 237.2 % | 225.7 % | 21.9 % | 13.0 % | 131.9 % | 113.2 % | 426.0 % |

| | 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 | -0.0002 ppm | 99.1810 % | 99.6763 % | 96.4581 % | 98.9533 % | 99.2405 % | 97.5673 % |
| Concentration per Run 1 | -0.0001 ppm | 98.8283 % | 99.0857 % | 95.7372 % | 99.0160 % | 98.5408 % | 97.2720 % |
| Concentration per Run 2 | -0.0003 ppm | 98.8754 % | 99.8863 % | 96.8872 % | 98.7340 % | 99.6459 % | 98.0805 % |
| Concentration per Run 3 | -0.0001 ppm | 99.8392 % | 100.0570 % | 96.7501 % | 99.1100 % | 99.5347 % | 97.3493 % |
| Recovery Percentage 1 | -3.152 % | | | | | | |
| Concentration RSD | 54.6 % | 0.6 % | 0.5 % | 0.7 % | 0.2 % | 0.6 % | 0.5 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 12:43:37 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 | 0.4898 ppm | 0.5037 ppm | 0.4837 ppm | 0.4530 ppm | 0.5109 ppm | 0.5048 ppm | 0.5055 ppm |
| Concentration per Run 1 | 0.4914 ppm | 0.5020 ppm | 0.4841 ppm | 0.4570 ppm | 0.5135 ppm | 0.5054 ppm | 0.5053 ppm |
| Concentration per Run 2 | 0.4894 ppm | 0.5060 ppm | 0.4787 ppm | 0.4528 ppm | 0.5107 ppm | 0.5036 ppm | 0.5051 ppm |
| Concentration per Run 3 | 0.4886 ppm | 0.5031 ppm | 0.4882 ppm | 0.4492 ppm | 0.5084 ppm | 0.5055 ppm | 0.5061 ppm |
| Recovery Percentage 1 | 97.957 % | 100.738 % | 96.734 % | 90.597 % | 102.177 % | 100.963 % | 101.097 % |
| Concentration RSD | 0.3 % | 0.4 % | 1.0 % | 0.9 % | 0.5 % | 0.2 % | 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 | 0.4848 ppm | 0.5008 ppm | 0.4841 ppm | 0.4967 ppm | 0.5037 ppm | 5.4830 ppm | 0.5383 ppm |
| Concentration per Run 1 | 0.4879 ppm | 0.5033 ppm | 0.4866 ppm | 0.4990 ppm | 0.5039 ppm | 5.4917 ppm | 0.5400 ppm |
| Concentration per Run 2 | 0.4872 ppm | 0.5038 ppm | 0.4839 ppm | 0.4972 ppm | 0.5040 ppm | 5.4787 ppm | 0.5378 ppm |
| Concentration per Run 3 | 0.4792 ppm | 0.4954 ppm | 0.4818 ppm | 0.4940 ppm | 0.5032 ppm | 5.4785 ppm | 0.5372 ppm |
| Recovery Percentage 1 | 96.953 % | 100.166 % | 96.823 % | 99.345 % | 100.738 % | 109.659 % | 107.662 % |
| Concentration RSD | 1.0 % | 0.9 % | 0.5 % | 0.5 % | 0.1 % | 0.1 % | 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 | 0.4904 ppm | 0.4898 ppm | 0.4842 ppm | 10.9855 ppm | 0.4977 ppm | 0.4994 ppm | 0.5003 ppm |
| Concentration per Run 1 | 0.4952 ppm | 0.4889 ppm | 0.4837 ppm | 10.9580 ppm | 0.4993 ppm | 0.4993 ppm | 0.5017 ppm |
| Concentration per Run 2 | 0.4909 ppm | 0.4884 ppm | 0.4851 ppm | 11.0453 ppm | 0.4995 ppm | 0.4983 ppm | 0.5045 ppm |
| Concentration per Run 3 | 0.4850 ppm | 0.4920 ppm | 0.4838 ppm | 10.9531 ppm | 0.4944 ppm | 0.5006 ppm | 0.4948 ppm |
| Recovery Percentage 1 | 98.071 % | 97.955 % | 96.843 % | 109.855 % | 99.547 % | 99.884 % | 100.067 % |
| Concentration RSD | 1.0 % | 0.4 % | 0.2 % | 0.5 % | 0.6 % | 0.2 % | 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 | 0.4967 ppm | 5.1713 ppm | 0.5044 ppm | 0.5170 ppm | 0.4851 ppm | 0.5078 ppm | 0.5018 ppm |
| Concentration per Run 1 | 0.4960 ppm | 5.2019 ppm | 0.5092 ppm | 0.5180 ppm | 0.4870 ppm | 0.5044 ppm | 0.5040 ppm |
| Concentration per Run 2 | 0.4964 ppm | 5.1710 ppm | 0.5035 ppm | 0.5155 ppm | 0.4841 ppm | 0.5071 ppm | 0.5020 ppm |
| Concentration per Run 3 | 0.4977 ppm | 5.1411 ppm | 0.5004 ppm | 0.5175 ppm | 0.4842 ppm | 0.5120 ppm | 0.4995 ppm |
| Recovery Percentage 1 | 99.344 % | 98.502 % | 100.871 % | 103.397 % | 97.022 % | 101.566 % | 100.364 % |
| Concentration RSD | 0.2 % | 0.6 % | 0.9 % | 0.3 % | 0.3 % | 0.8 % | 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 | 0.4844 ppm | 101.3220 % | 100.9837 % | 95.0604 % | 97.0575 % | 98.8449 % | 95.8630 % |
| Concentration per Run 1 | 0.4869 ppm | 100.9125 % | 101.1391 % | 94.9887 % | 97.0371 % | 98.9871 % | 95.8973 % |
| Concentration per Run 2 | 0.4867 ppm | 101.2047 % | 101.4645 % | 95.0188 % | 96.7145 % | 98.9801 % | 95.8685 % |
| Concentration per Run 3 | 0.4795 ppm | 101.8487 % | 100.3476 % | 95.1737 % | 97.4208 % | 98.5676 % | 95.8232 % |
| Recovery Percentage 1 | 96.875 % | | | | | | |
| Concentration RSD | 0.9 % | 0.5 % | 0.6 % | 0.1 % | 0.4 % | 0.2 % | 0.0 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 12:48:02 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 | -0.0054 ppm | -0.0006 ppm | 0.0015 ppm | 0.0000 ppm | 0.0000 ppm | 0.0024 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0026 ppm | 0.0000 ppm | 0.0018 ppm | 0.0000 ppm | 0.0000 ppm | 0.0039 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0075 ppm | -0.0014 ppm | 0.0015 ppm | 0.0000 ppm | 0.0001 ppm | 0.0019 ppm |
| Concentration per Run 3 | -0.0002 ppm | -0.0060 ppm | -0.0004 ppm | 0.0012 ppm | 0.0001 ppm | 0.0000 ppm | 0.0013 ppm |
| Recovery Percentage 1 | -2.385 % | -5.355 % | -11.620 % | 5.070 % | 0.351 % | 0.723 % | 2.383 % |
| Concentration RSD | 62.0 % | 46.4 % | 122.2 % | 17.6 % | 69.3 % | 54.1 % | 58.4 % |

| | 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 | -0.0004 ppm | 0.0000 ppm | -0.0004 ppm | 0.0005 ppm | 0.0116 ppm | -0.0002 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0005 ppm | 0.0000 ppm | -0.0004 ppm | 0.0009 ppm | 0.0064 ppm | 0.0003 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0002 ppm | -0.0001 ppm | -0.0003 ppm | -0.0001 ppm | 0.0115 ppm | -0.0008 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0004 ppm | 0.0000 ppm | -0.0004 ppm | 0.0008 ppm | 0.0169 ppm | -0.0002 ppm |
| Recovery Percentage 1 | 0.798 % | -3.802 % | -0.397 % | -3.689 % | 1.032 % | 0.464 % | -2.472 % |
| Concentration RSD | 52.7 % | 35.7 % | 230.1 % | 15.5 % | 103.4 % | 45.4 % | 221.6 % |

| | 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 | -0.0011 ppm | 0.0000 ppm | 0.0024 ppm | 0.0394 ppm | 0.0000 ppm | 0.0001 ppm | 0.0030 ppm |
| Concentration per Run 1 | -0.0003 ppm | 0.0001 ppm | 0.0024 ppm | 0.0382 ppm | -0.0001 ppm | -0.0001 ppm | 0.0041 ppm |
| Concentration per Run 2 | -0.0021 ppm | 0.0001 ppm | 0.0022 ppm | 0.0384 ppm | -0.0004 ppm | 0.0002 ppm | 0.0035 ppm |
| Concentration per Run 3 | -0.0009 ppm | -0.0001 ppm | 0.0026 ppm | 0.0417 ppm | 0.0005 ppm | 0.0002 ppm | 0.0014 ppm |
| Recovery Percentage 1 | -1.097 % | 0.236 % | 4.751 % | 1.972 % | -0.023 % | 1.114 % | 6.008 % |
| Concentration RSD | 81.9 % | 454.8 % | 8.8 % | 4.9 % | 7,889.5 % | 180.7 % | 48.0 % |

| | 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 | 0.0001 ppm | 0.0009 ppm | 0.0002 ppm | 0.0001 ppm | 0.0001 ppm | -0.0003 ppm | 0.0000 ppm |
| Concentration per Run 1 | 0.0005 ppm | 0.0009 ppm | -0.0001 ppm | 0.0001 ppm | 0.0000 ppm | 0.0002 ppm | -0.0001 ppm |
| Concentration per Run 2 | -0.0008 ppm | 0.0013 ppm | 0.0009 ppm | 0.0000 ppm | 0.0000 ppm | -0.0008 ppm | 0.0000 ppm |
| Concentration per Run 3 | 0.0005 ppm | 0.0003 ppm | -0.0001 ppm | 0.0000 ppm | 0.0002 ppm | -0.0003 ppm | 0.0000 ppm |
| Recovery Percentage 1 | 0.702 % | 0.171 % | 0.485 % | 0.558 % | 0.710 % | -1.596 % | -0.500 % |
| Concentration RSD | 1,018.2 % | 58.5 % | 220.6 % | 65.2 % | 113.6 % | 166.5 % | 130.4 % |

| | 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 | 0.0001 ppm | 99.1332 % | 99.8470 % | 96.6390 % | 98.4466 % | 99.4517 % | 97.6258 % |
| Concentration per Run 1 | 0.0003 ppm | 98.5633 % | 100.1081 % | 96.5286 % | 98.1351 % | 99.5586 % | 97.4081 % |
| Concentration per Run 2 | -0.0002 ppm | 98.8824 % | 100.4220 % | 96.7669 % | 98.1658 % | 100.0941 % | 97.7680 % |
| Concentration per Run 3 | 0.0001 ppm | 99.9538 % | 99.0109 % | 96.6215 % | 99.0390 % | 98.7023 % | 97.7014 % |
| Recovery Percentage 1 | 1.079 % | | | | | | |
| Concentration RSD | 503.0 % | 0.7 % | 0.7 % | 0.1 % | 0.5 % | 0.7 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473740-05 WG2012266
Analysis started at: 12/23/2024 12:57:54 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 | -0.0001 ppm | 0.0219 ppm | -0.0006 ppm | 0.0256 ppm | 0.0538 ppm | 0.0000 ppm | 39.1776 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0201 ppm | -0.0007 ppm | 0.0254 ppm | 0.0541 ppm | 0.0000 ppm | 39.0454 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0202 ppm | -0.0012 ppm | 0.0261 ppm | 0.0538 ppm | 0.0000 ppm | 39.1853 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0253 ppm | 0.0003 ppm | 0.0252 ppm | 0.0537 ppm | 0.0000 ppm | 39.3022 ppm |
| Concentration RSD | 7.6 % | 13.6 % | 132.8 % | 1.9 % | 0.4 % | 489.2 % | 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 | -0.0002 ppm | 0.0001 ppm | 0.0002 ppm | 0.0032 ppm | 0.3788 ppm | 3.9686 ppm | 0.0038 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0001 ppm | 0.0004 ppm | 0.0031 ppm | 0.3818 ppm | 4.0010 ppm | 0.0042 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0001 ppm | 0.0000 ppm | 0.0033 ppm | 0.3750 ppm | 3.9235 ppm | 0.0035 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0000 ppm | 0.0000 ppm | 0.0032 ppm | 0.3797 ppm | 3.9814 ppm | 0.0036 ppm |
| Concentration RSD | 35.1 % | 61.8 % | 142.7 % | 2.2 % | 0.9 % | 1.0 % | 9.4 % |

| | 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 | 8.7392 ppm | 0.1795 ppm | 0.0011 ppm | 137.5519 ppm | 0.0006 ppm | 0.0006 ppm | 0.0011 ppm |
| Concentration per Run 1 | 8.8068 ppm | 0.1793 ppm | 0.0012 ppm | 137.5702 ppm | 0.0009 ppm | 0.0007 ppm | 0.0012 ppm |
| Concentration per Run 2 | 8.7220 ppm | 0.1790 ppm | 0.0010 ppm | 136.8521 ppm | 0.0008 ppm | 0.0006 ppm | 0.0015 ppm |
| Concentration per Run 3 | 8.6886 ppm | 0.1802 ppm | 0.0011 ppm | 138.2335 ppm | 0.0002 ppm | 0.0004 ppm | 0.0008 ppm |
| Concentration RSD | 0.7 % | 0.3 % | 8.6 % | 0.5 % | 61.5 % | 26.7 % | 31.3 % |

| | 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 | 5.9764 ppm | 0.0007 ppm | 0.2776 ppm | 0.0008 ppm | 0.0001 ppm | 0.0004 ppm |
| Concentration per Run 1 | 0.0002 ppm | 6.0157 ppm | 0.0006 ppm | 0.2780 ppm | 0.0008 ppm | 0.0012 ppm | 0.0006 ppm |
| Concentration per Run 2 | -0.0010 ppm | 5.9745 ppm | 0.0012 ppm | 0.2774 ppm | 0.0009 ppm | 0.0001 ppm | 0.0004 ppm |
| Concentration per Run 3 | 0.0007 ppm | 5.9390 ppm | 0.0004 ppm | 0.2773 ppm | 0.0007 ppm | -0.0009 ppm | 0.0002 ppm |
| Concentration RSD | 2,554.5 % | 0.6 % | 61.2 % | 0.1 % | 12.3 % | 901.2 % | 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 | 0.0232 ppm | 92.7471 % | 97.0466 % | 85.6615 % | 93.0975 % | 97.6724 % | 92.7877 % |
| Concentration per Run 1 | 0.0232 ppm | 92.1343 % | 97.2685 % | 85.2917 % | 93.0309 % | 97.7860 % | 93.0808 % |
| Concentration per Run 2 | 0.0231 ppm | 92.8548 % | 97.1698 % | 85.2311 % | 93.0135 % | 97.9110 % | 92.1971 % |
| Concentration per Run 3 | 0.0233 ppm | 93.2522 % | 96.7014 % | 86.4616 % | 93.2481 % | 97.3202 % | 93.0852 % |
| Concentration RSD | 0.5 % | 0.6 % | 0.3 % | 0.8 % | 0.1 % | 0.3 % | 0.6 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473740-06 WG2012266
Analysis started at: 12/23/2024 1:02:38 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 | -0.0002 ppm | 0.0555 ppm | -0.0004 ppm | 0.0247 ppm | 0.0497 ppm | 0.0000 ppm | 37.9413 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0562 ppm | -0.0006 ppm | 0.0244 ppm | 0.0494 ppm | 0.0000 ppm | 37.9758 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.0552 ppm | 0.0000 ppm | 0.0250 ppm | 0.0499 ppm | 0.0000 ppm | 37.7520 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0553 ppm | -0.0005 ppm | 0.0247 ppm | 0.0497 ppm | 0.0000 ppm | 38.0961 ppm |
| Concentration RSD | 84.1 % | 1.0 % | 80.4 % | 1.2 % | 0.5 % | 112.1 % | 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 | -0.0002 ppm | 0.0003 ppm | 0.0005 ppm | 0.0041 ppm | 0.4700 ppm | 3.8194 ppm | 0.0035 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0000 ppm | 0.0002 ppm | 0.0040 ppm | 0.4679 ppm | 3.7833 ppm | 0.0044 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0000 ppm | 0.0008 ppm | 0.0042 ppm | 0.4713 ppm | 3.8370 ppm | 0.0033 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0008 ppm | 0.0003 ppm | 0.0042 ppm | 0.4709 ppm | 3.8378 ppm | 0.0027 ppm |
| Concentration RSD | 16.0 % | 159.3 % | 74.4 % | 2.4 % | 0.4 % | 0.8 % | 24.2 % |

| | 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 | 8.8659 ppm | 0.2004 ppm | 0.0008 ppm | 140.2817 ppm | 0.0008 ppm | 0.0027 ppm | 0.0009 ppm |
| Concentration per Run 1 | 8.9321 ppm | 0.2004 ppm | 0.0005 ppm | 139.1640 ppm | 0.0004 ppm | 0.0021 ppm | 0.0026 ppm |
| Concentration per Run 2 | 8.9023 ppm | 0.1998 ppm | 0.0010 ppm | 140.1518 ppm | 0.0009 ppm | 0.0032 ppm | 0.0000 ppm |
| Concentration per Run 3 | 8.7632 ppm | 0.2008 ppm | 0.0010 ppm | 141.5293 ppm | 0.0011 ppm | 0.0028 ppm | 0.0001 ppm |
| Concentration RSD | 1.0 % | 0.2 % | 33.9 % | 0.8 % | 43.4 % | 20.3 % | 157.0 % |

| | 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 | -0.0006 ppm | 5.6909 ppm | -0.0001 ppm | 0.2642 ppm | 0.0025 ppm | 0.0008 ppm | 0.0006 ppm |
| Concentration per Run 1 | 0.0002 ppm | 5.7302 ppm | -0.0006 ppm | 0.2628 ppm | 0.0026 ppm | 0.0006 ppm | 0.0006 ppm |
| Concentration per Run 2 | -0.0002 ppm | 5.7086 ppm | -0.0006 ppm | 0.2662 ppm | 0.0025 ppm | 0.0000 ppm | 0.0006 ppm |
| Concentration per Run 3 | -0.0019 ppm | 5.6338 ppm | 0.0007 ppm | 0.2635 ppm | 0.0025 ppm | 0.0017 ppm | 0.0007 ppm |
| Concentration RSD | 172.1 % | 0.9 % | 570.9 % | 0.7 % | 1.5 % | 109.1 % | 9.9 % |

| | 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 | 0.0475 ppm | 90.5988 % | 96.6187 % | 83.0125 % | 91.7290 % | 97.3235 % | 91.5522 % |
| Concentration per Run 1 | 0.0481 ppm | 90.0150 % | 96.6457 % | 82.7781 % | 91.6257 % | 97.3002 % | 91.4050 % |
| Concentration per Run 2 | 0.0471 ppm | 90.5065 % | 96.9964 % | 83.0359 % | 91.7295 % | 97.4004 % | 91.8087 % |
| Concentration per Run 3 | 0.0473 ppm | 91.2749 % | 96.2139 % | 83.2237 % | 91.8318 % | 97.2698 % | 91.4428 % |
| Concentration RSD | 1.1 % | 0.7 % | 0.4 % | 0.3 % | 0.1 % | 0.1 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473740-07 WG2012266
Analysis started at: 12/23/2024 1:07:05 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 | -0.0002 ppm | 0.0479 ppm | -0.0013 ppm | 0.0269 ppm | 0.0516 ppm | 0.0000 ppm | 42.1177 ppm |
| Concentration per Run 1 | -0.0004 ppm | 0.0453 ppm | -0.0011 ppm | 0.0265 ppm | 0.0515 ppm | 0.0000 ppm | 42.0912 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0501 ppm | -0.0016 ppm | 0.0283 ppm | 0.0514 ppm | 0.0000 ppm | 41.9600 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0484 ppm | -0.0013 ppm | 0.0260 ppm | 0.0518 ppm | 0.0000 ppm | 42.3021 ppm |
| Concentration RSD | 85.8 % | 5.1 % | 16.1 % | 4.4 % | 0.5 % | 2,307.4 % | 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 | -0.0003 ppm | 0.0002 ppm | 0.0002 ppm | 0.0034 ppm | 0.4968 ppm | 4.1563 ppm | 0.0036 ppm |
| Concentration per Run 1 | -0.0003 ppm | 0.0002 ppm | 0.0004 ppm | 0.0034 ppm | 0.4955 ppm | 4.1628 ppm | 0.0039 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.0000 ppm | 0.0003 ppm | 0.0033 ppm | 0.4954 ppm | 4.1527 ppm | 0.0039 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0005 ppm | -0.0001 ppm | 0.0034 ppm | 0.4993 ppm | 4.1535 ppm | 0.0030 ppm |
| Concentration RSD | 15.9 % | 137.5 % | 116.9 % | 2.8 % | 0.4 % | 0.1 % | 13.5 % |

| | 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 | 10.5339 ppm | 0.2985 ppm | 0.0010 ppm | 150.5819 ppm | 0.0009 ppm | 0.0015 ppm | 0.0007 ppm |
| Concentration per Run 1 | 10.5714 ppm | 0.2991 ppm | 0.0013 ppm | 149.7632 ppm | 0.0015 ppm | 0.0009 ppm | 0.0023 ppm |
| Concentration per Run 2 | 10.5324 ppm | 0.2976 ppm | 0.0010 ppm | 151.1279 ppm | 0.0003 ppm | 0.0017 ppm | 0.0002 ppm |
| Concentration per Run 3 | 10.4978 ppm | 0.2990 ppm | 0.0008 ppm | 150.8545 ppm | 0.0009 ppm | 0.0019 ppm | -0.0004 ppm |
| Concentration RSD | 0.3 % | 0.3 % | 23.0 % | 0.5 % | 65.7 % | 37.2 % | 204.5 % |

| | 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 | -0.0007 ppm | 6.1144 ppm | -0.0004 ppm | 0.2907 ppm | 0.0023 ppm | 0.0004 ppm | 0.0006 ppm |
| Concentration per Run 1 | -0.0020 ppm | 6.1703 ppm | -0.0005 ppm | 0.2896 ppm | 0.0021 ppm | -0.0002 ppm | 0.0004 ppm |
| Concentration per Run 2 | -0.0023 ppm | 6.0942 ppm | -0.0006 ppm | 0.2902 ppm | 0.0021 ppm | 0.0005 ppm | 0.0008 ppm |
| Concentration per Run 3 | 0.0021 ppm | 6.0788 ppm | 0.0000 ppm | 0.2922 ppm | 0.0026 ppm | 0.0008 ppm | 0.0007 ppm |
| Concentration RSD | 327.4 % | 0.8 % | 77.0 % | 0.5 % | 13.3 % | 151.4 % | 26.6 % |

| | 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 | 0.0251 ppm | 90.1687 % | 95.4586 % | 82.3559 % | 90.9266 % | 96.0591 % | 90.8253 % |
| Concentration per Run 1 | 0.0253 ppm | 89.7198 % | 95.5577 % | 82.2668 % | 90.9811 % | 95.9492 % | 91.0045 % |
| Concentration per Run 2 | 0.0249 ppm | 90.1938 % | 95.8828 % | 82.4887 % | 90.9917 % | 96.5219 % | 91.0450 % |
| Concentration per Run 3 | 0.0250 ppm | 90.5925 % | 94.9352 % | 82.3121 % | 90.8070 % | 95.7063 % | 90.4263 % |
| Concentration RSD | 0.9 % | 0.5 % | 0.5 % | 0.1 % | 0.1 % | 0.4 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473740-08 WG2012266
Analysis started at: 12/23/2024 1:11:30 PM
Rack 2
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 | -0.0002 ppm | 0.0627 ppm | -0.0009 ppm | 0.0285 ppm | 0.0572 ppm | 0.0000 ppm | 44.8245 ppm |
| Concentration per Run 1 | -0.0003 ppm | 0.0623 ppm | -0.0017 ppm | 0.0293 ppm | 0.0574 ppm | 0.0000 ppm | 44.8346 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0635 ppm | -0.0009 ppm | 0.0283 ppm | 0.0569 ppm | 0.0000 ppm | 44.8576 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0622 ppm | 0.0000 ppm | 0.0280 ppm | 0.0572 ppm | 0.0000 ppm | 44.7814 ppm |
| Concentration RSD | 87.7 % | 1.1 % | 97.0 % | 2.4 % | 0.4 % | 37.2 % | 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 | -0.0001 ppm | 0.0001 ppm | 0.0003 ppm | 0.0053 ppm | 0.7249 ppm | 4.3887 ppm | 0.0044 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0000 ppm | 0.0002 ppm | 0.0054 ppm | 0.7244 ppm | 4.3750 ppm | 0.0055 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0000 ppm | 0.0002 ppm | 0.0055 ppm | 0.7280 ppm | 4.3938 ppm | 0.0043 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0003 ppm | 0.0005 ppm | 0.0049 ppm | 0.7224 ppm | 4.3973 ppm | 0.0035 ppm |
| Concentration RSD | 37.3 % | 182.5 % | 56.2 % | 5.6 % | 0.4 % | 0.3 % | 22.9 % |

| | 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 | 11.4473 ppm | 0.2760 ppm | 0.0015 ppm | 155.8588 ppm | 0.0012 ppm | 0.0029 ppm | 0.0015 ppm |
| Concentration per Run 1 | 11.6791 ppm | 0.2760 ppm | 0.0017 ppm | 154.9322 ppm | 0.0013 ppm | 0.0036 ppm | 0.0009 ppm |
| Concentration per Run 2 | 11.5122 ppm | 0.2763 ppm | 0.0011 ppm | 156.0594 ppm | 0.0015 ppm | 0.0030 ppm | 0.0016 ppm |
| Concentration per Run 3 | 11.1505 ppm | 0.2756 ppm | 0.0017 ppm | 156.5848 ppm | 0.0009 ppm | 0.0022 ppm | 0.0019 ppm |
| Concentration RSD | 2.4 % | 0.1 % | 24.3 % | 0.5 % | 24.6 % | 24.5 % | 32.4 % |

| | 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 | 6.1530 ppm | 0.0000 ppm | 0.3141 ppm | 0.0028 ppm | 0.0003 ppm | 0.0007 ppm |
| Concentration per Run 1 | 0.0019 ppm | 6.2669 ppm | -0.0013 ppm | 0.3144 ppm | 0.0030 ppm | -0.0002 ppm | 0.0008 ppm |
| Concentration per Run 2 | 0.0014 ppm | 6.1987 ppm | 0.0009 ppm | 0.3130 ppm | 0.0028 ppm | 0.0002 ppm | 0.0007 ppm |
| Concentration per Run 3 | 0.0004 ppm | 5.9934 ppm | 0.0005 ppm | 0.3148 ppm | 0.0026 ppm | 0.0008 ppm | 0.0007 ppm |
| Concentration RSD | 62.9 % | 2.3 % | 30,929.6 % | 0.3 % | 7.5 % | 207.1 % | 7.2 % |

| | 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 | 0.0271 ppm | 90.7574 % | 96.0844 % | 82.2994 % | 91.1206 % | 96.3499 % | 90.5206 % |
| Concentration per Run 1 | 0.0279 ppm | 89.1355 % | 96.1048 % | 82.0112 % | 90.0275 % | 96.5437 % | 90.5773 % |
| Concentration per Run 2 | 0.0270 ppm | 90.3362 % | 95.9361 % | 82.2717 % | 90.7662 % | 96.1171 % | 90.6276 % |
| Concentration per Run 3 | 0.0263 ppm | 92.8006 % | 96.2123 % | 82.6152 % | 92.5680 % | 96.3890 % | 90.3568 % |
| Concentration RSD | 3.0 % | 2.1 % | 0.1 % | 0.4 % | 1.4 % | 0.2 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473740-09 WG2012266
Analysis started at: 12/23/2024 1:15:55 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 | -0.0001 ppm | 0.0537 ppm | -0.0007 ppm | 0.0294 ppm | 0.0572 ppm | 0.0000 ppm | 45.4289 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0500 ppm | -0.0005 ppm | 0.0297 ppm | 0.0575 ppm | 0.0000 ppm | 45.8551 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0571 ppm | -0.0015 ppm | 0.0293 ppm | 0.0573 ppm | 0.0000 ppm | 45.3891 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0541 ppm | -0.0001 ppm | 0.0292 ppm | 0.0567 ppm | 0.0000 ppm | 45.0424 ppm |
| Concentration RSD | 172.2 % | 6.7 % | 97.1 % | 0.8 % | 0.7 % | 73.3 % | 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 | -0.0002 ppm | 0.0003 ppm | 0.0016 ppm | 0.0052 ppm | 0.6125 ppm | 4.4484 ppm | 0.0046 ppm |
| Concentration per Run 1 | -0.0003 ppm | 0.0003 ppm | 0.0017 ppm | 0.0052 ppm | 0.6202 ppm | 4.4409 ppm | 0.0049 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0003 ppm | 0.0017 ppm | 0.0053 ppm | 0.6120 ppm | 4.4619 ppm | 0.0042 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0003 ppm | 0.0015 ppm | 0.0051 ppm | 0.6054 ppm | 4.4425 ppm | 0.0048 ppm |
| Concentration RSD | 35.6 % | 13.3 % | 6.2 % | 1.9 % | 1.2 % | 0.3 % | 8.1 % |

| | 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 | 11.8475 ppm | 0.2548 ppm | 0.0011 ppm | 156.8706 ppm | 0.0008 ppm | 0.0026 ppm | 0.0014 ppm |
| Concentration per Run 1 | 11.9529 ppm | 0.2573 ppm | 0.0012 ppm | 155.8406 ppm | 0.0009 ppm | 0.0026 ppm | 0.0011 ppm |
| Concentration per Run 2 | 11.8547 ppm | 0.2550 ppm | 0.0012 ppm | 155.9359 ppm | 0.0012 ppm | 0.0022 ppm | 0.0010 ppm |
| Concentration per Run 3 | 11.7348 ppm | 0.2523 ppm | 0.0010 ppm | 158.8353 ppm | 0.0004 ppm | 0.0031 ppm | 0.0020 ppm |
| Concentration RSD | 0.9 % | 1.0 % | 11.4 % | 1.1 % | 44.8 % | 17.5 % | 43.6 % |

| | 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 | -0.0002 ppm | 6.2827 ppm | 0.0001 ppm | 0.3247 ppm | 0.0022 ppm | 0.0012 ppm | 0.0009 ppm |
| Concentration per Run 1 | -0.0001 ppm | 6.3241 ppm | 0.0003 ppm | 0.3257 ppm | 0.0021 ppm | 0.0010 ppm | 0.0010 ppm |
| Concentration per Run 2 | -0.0001 ppm | 6.2739 ppm | -0.0002 ppm | 0.3261 ppm | 0.0024 ppm | 0.0022 ppm | 0.0007 ppm |
| Concentration per Run 3 | -0.0005 ppm | 6.2500 ppm | 0.0002 ppm | 0.3224 ppm | 0.0021 ppm | 0.0003 ppm | 0.0009 ppm |
| Concentration RSD | 102.2 % | 0.6 % | 280.9 % | 0.6 % | 6.9 % | 81.6 % | 21.1 % |

| | 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 | 0.0273 ppm | 89.3216 % | 95.3854 % | 81.8941 % | 89.8620 % | 96.7090 % | 90.3802 % |
| Concentration per Run 1 | 0.0275 ppm | 88.9321 % | 94.4337 % | 81.3773 % | 90.2261 % | 96.5121 % | 90.4847 % |
| Concentration per Run 2 | 0.0276 ppm | 89.2326 % | 95.6044 % | 81.7514 % | 89.9540 % | 96.8372 % | 90.1680 % |
| Concentration per Run 3 | 0.0267 ppm | 89.7999 % | 96.1182 % | 82.5534 % | 89.4061 % | 96.7777 % | 90.4880 % |
| Concentration RSD | 1.7 % | 0.5 % | 0.9 % | 0.7 % | 0.5 % | 0.2 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473740-10 WG2012266
Analysis started at: 12/23/2024 1:20:20 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 | -0.0003 ppm | 0.0084 ppm | -0.0017 ppm | 0.0167 ppm | 0.0358 ppm | 0.0000 ppm | 19.0898 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0102 ppm | -0.0022 ppm | 0.0167 ppm | 0.0361 ppm | 0.0000 ppm | 19.1885 ppm |
| Concentration per Run 2 | -0.0004 ppm | 0.0091 ppm | -0.0014 ppm | 0.0167 ppm | 0.0355 ppm | 0.0000 ppm | 19.1564 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0059 ppm | -0.0016 ppm | 0.0166 ppm | 0.0359 ppm | 0.0000 ppm | 18.9246 ppm |
| Concentration RSD | 41.1 % | 26.6 % | 25.5 % | 0.2 % | 0.8 % | 527.3 % | 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 | -0.0001 ppm | -0.0001 ppm | -0.0001 ppm | 0.0004 ppm | 0.1250 ppm | 3.5162 ppm | 0.0006 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0001 ppm | 0.0000 ppm | 0.0004 ppm | 0.1266 ppm | 3.5322 ppm | 0.0006 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0002 ppm | -0.0003 ppm | 0.0003 ppm | 0.1250 ppm | 3.4628 ppm | 0.0007 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0001 ppm | 0.0001 ppm | 0.0004 ppm | 0.1233 ppm | 3.5536 ppm | 0.0006 ppm |
| Concentration RSD | 12.5 % | 175.1 % | 255.1 % | 13.5 % | 1.3 % | 1.4 % | 12.1 % |

| | 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 | 6.1323 ppm | 0.0457 ppm | 0.0000 ppm | 98.9406 ppm | 0.0006 ppm | 0.0004 ppm | 0.0016 ppm |
| Concentration per Run 1 | 6.1993 ppm | 0.0460 ppm | -0.0001 ppm | 98.9211 ppm | 0.0000 ppm | 0.0007 ppm | 0.0007 ppm |
| Concentration per Run 2 | 6.1299 ppm | 0.0456 ppm | 0.0001 ppm | 97.5513 ppm | 0.0015 ppm | -0.0001 ppm | 0.0035 ppm |
| Concentration per Run 3 | 6.0675 ppm | 0.0455 ppm | -0.0001 ppm | 100.3492 ppm | 0.0003 ppm | 0.0008 ppm | 0.0006 ppm |
| Concentration RSD | 1.1 % | 0.7 % | 248.8 % | 1.4 % | 127.6 % | 115.5 % | 100.6 % |

| | 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 | 0.0005 ppm | 4.0556 ppm | -0.0001 ppm | 0.1697 ppm | 0.0001 ppm | 0.0001 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0013 ppm | 4.0897 ppm | 0.0001 ppm | 0.1702 ppm | 0.0001 ppm | 0.0001 ppm | 0.0001 ppm |
| Concentration per Run 2 | 0.0004 ppm | 4.0593 ppm | -0.0004 ppm | 0.1689 ppm | 0.0001 ppm | 0.0000 ppm | 0.0001 ppm |
| Concentration per Run 3 | -0.0002 ppm | 4.0177 ppm | -0.0001 ppm | 0.1700 ppm | -0.0001 ppm | 0.0001 ppm | 0.0000 ppm |
| Concentration RSD | 149.1 % | 0.9 % | 178.5 % | 0.4 % | 158.3 % | 90.8 % | 74.0 % |

| | 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 | 0.0151 ppm | 90.9261 % | 95.5533 % | 85.2643 % | 92.1000 % | 97.0989 % | 92.5111 % |
| Concentration per Run 1 | 0.0153 ppm | 90.1202 % | 94.7965 % | 85.2162 % | 91.9011 % | 96.6325 % | 92.7067 % |
| Concentration per Run 2 | 0.0151 ppm | 91.0629 % | 95.6209 % | 85.1268 % | 92.1804 % | 97.0798 % | 92.3070 % |
| Concentration per Run 3 | 0.0149 ppm | 91.5951 % | 96.2425 % | 85.4498 % | 92.2184 % | 97.5845 % | 92.5196 % |
| Concentration RSD | 1.5 % | 0.8 % | 0.8 % | 0.2 % | 0.2 % | 0.5 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473740-11 WG2012266
Analysis started at: 12/23/2024 1:24:45 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 | 0.0000 ppm | -0.0010 ppm | -0.0008 ppm | 0.0092 ppm | 0.0000 ppm | 0.0000 ppm | 0.0106 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0007 ppm | -0.0008 ppm | 0.0093 ppm | 0.0000 ppm | 0.0000 ppm | 0.0104 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0002 ppm | -0.0014 ppm | 0.0087 ppm | 0.0001 ppm | 0.0000 ppm | 0.0105 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0022 ppm | -0.0003 ppm | 0.0095 ppm | 0.0000 ppm | 0.0000 ppm | 0.0108 ppm |
| Concentration RSD | 64.3 % | 103.3 % | 64.1 % | 4.4 % | 292.7 % | 60.1 % | 1.7 % |

| | 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 | 0.0001 ppm | -0.0001 ppm | 0.0008 ppm | 0.0139 ppm | -0.0004 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0001 ppm | -0.0001 ppm | 0.0000 ppm | 0.0014 ppm | 0.0172 ppm | -0.0009 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0004 ppm | 0.0000 ppm | -0.0001 ppm | 0.0004 ppm | 0.0093 ppm | -0.0003 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0001 ppm | 0.0002 ppm | -0.0003 ppm | 0.0007 ppm | 0.0153 ppm | 0.0000 ppm |
| Concentration RSD | 128.7 % | 71.7 % | 212.9 % | 97.5 % | 64.5 % | 29.4 % | 110.2 % |

| | 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 | 0.0006 ppm | 0.0000 ppm | -0.0002 ppm | 0.0577 ppm | 0.0005 ppm | -0.0004 ppm | 0.0010 ppm |
| Concentration per Run 1 | 0.0007 ppm | 0.0001 ppm | -0.0001 ppm | 0.0593 ppm | 0.0005 ppm | -0.0009 ppm | 0.0031 ppm |
| Concentration per Run 2 | 0.0010 ppm | 0.0000 ppm | -0.0004 ppm | 0.0568 ppm | 0.0003 ppm | 0.0000 ppm | -0.0015 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0000 ppm | -0.0002 ppm | 0.0570 ppm | 0.0006 ppm | -0.0002 ppm | 0.0013 ppm |
| Concentration RSD | 96.3 % | 130.6 % | 54.0 % | 2.4 % | 37.0 % | 119.3 % | 245.8 % |

| | 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 | -0.0010 ppm | 0.1648 ppm | -0.0008 ppm | 0.0001 ppm | -0.0002 ppm | 0.0002 ppm | 0.0000 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.1671 ppm | -0.0002 ppm | 0.0001 ppm | -0.0003 ppm | 0.0004 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0020 ppm | 0.1634 ppm | -0.0013 ppm | 0.0001 ppm | 0.0000 ppm | 0.0000 ppm | 0.0001 ppm |
| Concentration per Run 3 | -0.0010 ppm | 0.1639 ppm | -0.0010 ppm | 0.0001 ppm | -0.0004 ppm | 0.0003 ppm | -0.0002 ppm |
| Concentration RSD | 99.4 % | 1.2 % | 67.5 % | 12.3 % | 80.3 % | 97.9 % | 1,199.0 % |

| | 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 | 0.0127 ppm | 96.9154 % | 98.1711 % | 96.1566 % | 99.5823 % | 100.7949 % | 98.5039 % |
| Concentration per Run 1 | 0.0128 ppm | 96.1505 % | 97.6482 % | 95.4362 % | 99.3828 % | 100.4787 % | 98.1434 % |
| Concentration per Run 2 | 0.0126 ppm | 97.0439 % | 98.4510 % | 96.6814 % | 99.7207 % | 101.1091 % | 99.0977 % |
| Concentration per Run 3 | 0.0127 ppm | 97.5520 % | 98.4140 % | 96.3521 % | 99.6434 % | 100.7971 % | 98.2706 % |
| Concentration RSD | 0.7 % | 0.7 % | 0.5 % | 0.7 % | 0.2 % | 0.3 % | 0.5 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473740-12 WG2012266
Analysis started at: 12/23/2024 1:29:10 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 | 0.1278 ppm | -0.0005 ppm | 0.0281 ppm | 0.0537 ppm | 0.0000 ppm | 42.6854 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.1303 ppm | 0.0012 ppm | 0.0282 ppm | 0.0537 ppm | 0.0000 ppm | 42.8759 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.1240 ppm | -0.0012 ppm | 0.0277 ppm | 0.0542 ppm | 0.0000 ppm | 42.4921 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.1292 ppm | -0.0014 ppm | 0.0284 ppm | 0.0531 ppm | 0.0000 ppm | 42.6882 ppm |
| Concentration RSD | 96.9 % | 2.6 % | 305.2 % | 1.3 % | 1.0 % | 126.8 % | 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 | -0.0002 ppm | -0.0001 ppm | 0.0009 ppm | 0.0066 ppm | 0.7095 ppm | 4.2412 ppm | 0.0047 ppm |
| Concentration per Run 1 | -0.0002 ppm | -0.0002 ppm | 0.0009 ppm | 0.0068 ppm | 0.7118 ppm | 4.2479 ppm | 0.0045 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0001 ppm | 0.0008 ppm | 0.0063 ppm | 0.7086 ppm | 4.2683 ppm | 0.0045 ppm |
| Concentration per Run 3 | -0.0003 ppm | -0.0002 ppm | 0.0008 ppm | 0.0067 ppm | 0.7080 ppm | 4.2075 ppm | 0.0051 ppm |
| Concentration RSD | 30.9 % | 29.6 % | 7.5 % | 3.5 % | 0.3 % | 0.7 % | 7.2 % |

| | 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 | 11.0542 ppm | 0.2240 ppm | 0.0015 ppm | 150.1374 ppm | 0.0013 ppm | 0.0055 ppm | 0.0011 ppm |
| Concentration per Run 1 | 11.1387 ppm | 0.2249 ppm | 0.0013 ppm | 149.8953 ppm | 0.0012 ppm | 0.0044 ppm | 0.0003 ppm |
| Concentration per Run 2 | 11.0167 ppm | 0.2230 ppm | 0.0015 ppm | 150.9314 ppm | 0.0012 ppm | 0.0059 ppm | 0.0011 ppm |
| Concentration per Run 3 | 11.0072 ppm | 0.2241 ppm | 0.0016 ppm | 149.5856 ppm | 0.0016 ppm | 0.0062 ppm | 0.0019 ppm |
| Concentration RSD | 0.7 % | 0.4 % | 10.5 % | 0.5 % | 19.4 % | 17.8 % | 70.4 % |

| | 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 | 5.8959 ppm | -0.0001 ppm | 0.2987 ppm | 0.0054 ppm | 0.0002 ppm | 0.0012 ppm |
| Concentration per Run 1 | 0.0003 ppm | 5.9251 ppm | 0.0000 ppm | 0.2985 ppm | 0.0054 ppm | 0.0008 ppm | 0.0011 ppm |
| Concentration per Run 2 | 0.0004 ppm | 5.8797 ppm | -0.0003 ppm | 0.2999 ppm | 0.0055 ppm | 0.0001 ppm | 0.0011 ppm |
| Concentration per Run 3 | -0.0002 ppm | 5.8830 ppm | 0.0000 ppm | 0.2976 ppm | 0.0053 ppm | -0.0002 ppm | 0.0013 ppm |
| Concentration RSD | 187.1 % | 0.4 % | 192.1 % | 0.4 % | 1.1 % | 232.8 % | 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 | 0.0333 ppm | 89.3970 % | 95.6692 % | 82.3788 % | 90.0069 % | 97.0577 % | 90.9688 % |
| Concentration per Run 1 | 0.0330 ppm | 88.8405 % | 95.3594 % | 82.1855 % | 89.8477 % | 97.4160 % | 91.1099 % |
| Concentration per Run 2 | 0.0337 ppm | 89.7292 % | 96.0489 % | 82.6309 % | 90.4701 % | 97.4291 % | 90.9891 % |
| Concentration per Run 3 | 0.0332 ppm | 89.6213 % | 95.5993 % | 82.3201 % | 89.7030 % | 96.3278 % | 90.8075 % |
| Concentration RSD | 1.0 % | 0.5 % | 0.4 % | 0.3 % | 0.5 % | 0.7 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473740-13 WG2012266
Analysis started at: 12/23/2024 1:33:35 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 | 0.0001 ppm | 0.0971 ppm | -0.0004 ppm | 0.0287 ppm | 0.0536 ppm | 0.0000 ppm | 42.8856 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.0966 ppm | 0.0000 ppm | 0.0290 ppm | 0.0537 ppm | 0.0000 ppm | 42.9159 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0994 ppm | -0.0003 ppm | 0.0283 ppm | 0.0536 ppm | 0.0000 ppm | 42.9233 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0951 ppm | -0.0010 ppm | 0.0288 ppm | 0.0535 ppm | 0.0000 ppm | 42.8174 ppm |
| Concentration RSD | 297.4 % | 2.2 % | 117.6 % | 1.3 % | 0.2 % | 66.4 % | 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 | -0.0003 ppm | 0.0002 ppm | 0.0001 ppm | 0.0058 ppm | 0.6541 ppm | 4.3584 ppm | 0.0046 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0005 ppm | 0.0000 ppm | 0.0060 ppm | 0.6534 ppm | 4.3683 ppm | 0.0051 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.0003 ppm | 0.0003 ppm | 0.0058 ppm | 0.6541 ppm | 4.3488 ppm | 0.0048 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0000 ppm | 0.0001 ppm | 0.0057 ppm | 0.6549 ppm | 4.3582 ppm | 0.0041 ppm |
| Concentration RSD | 29.2 % | 107.0 % | 110.0 % | 3.1 % | 0.1 % | 0.2 % | 10.3 % |

| | 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 | 11.1723 ppm | 0.2275 ppm | 0.0016 ppm | 150.8889 ppm | 0.0012 ppm | 0.0047 ppm | 0.0023 ppm |
| Concentration per Run 1 | 11.2781 ppm | 0.2276 ppm | 0.0015 ppm | 150.3154 ppm | 0.0014 ppm | 0.0045 ppm | 0.0015 ppm |
| Concentration per Run 2 | 11.1653 ppm | 0.2278 ppm | 0.0015 ppm | 151.1688 ppm | 0.0012 ppm | 0.0049 ppm | 0.0011 ppm |
| Concentration per Run 3 | 11.0735 ppm | 0.2272 ppm | 0.0019 ppm | 151.1825 ppm | 0.0010 ppm | 0.0047 ppm | 0.0044 ppm |
| Concentration RSD | 0.9 % | 0.1 % | 12.5 % | 0.3 % | 15.3 % | 3.8 % | 77.8 % |

| | 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 | -0.0003 ppm | 5.8548 ppm | -0.0002 ppm | 0.3009 ppm | 0.0041 ppm | 0.0000 ppm | 0.0011 ppm |
| Concentration per Run 1 | -0.0008 ppm | 5.9037 ppm | 0.0001 ppm | 0.3012 ppm | 0.0038 ppm | -0.0003 ppm | 0.0011 ppm |
| Concentration per Run 2 | -0.0007 ppm | 5.8551 ppm | -0.0004 ppm | 0.3011 ppm | 0.0043 ppm | 0.0006 ppm | 0.0011 ppm |
| Concentration per Run 3 | 0.0008 ppm | 5.8055 ppm | -0.0003 ppm | 0.3005 ppm | 0.0043 ppm | -0.0002 ppm | 0.0011 ppm |
| Concentration RSD | 347.8 % | 0.8 % | 109.6 % | 0.1 % | 7.6 % | 1,511.3 % | 2.3 % |

| | 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 | 0.0443 ppm | 89.2856 % | 95.4925 % | 82.1468 % | 90.3976 % | 97.1205 % | 90.6408 % |
| Concentration per Run 1 | 0.0450 ppm | 88.6876 % | 95.5319 % | 82.1313 % | 90.4172 % | 97.1636 % | 90.7775 % |
| Concentration per Run 2 | 0.0440 ppm | 89.2966 % | 95.3428 % | 82.0855 % | 90.3628 % | 96.9636 % | 90.4859 % |
| Concentration per Run 3 | 0.0439 ppm | 89.8727 % | 95.6030 % | 82.2235 % | 90.4127 % | 97.2344 % | 90.6589 % |
| Concentration RSD | 1.4 % | 0.7 % | 0.1 % | 0.1 % | 0.0 % | 0.1 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473740-14 WG2012266
Analysis started at: 12/23/2024 1:38:00 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 | 0.1746 ppm | 0.0000 ppm | 0.0217 ppm | 0.0329 ppm | 0.0000 ppm | 24.7001 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.1732 ppm | 0.0010 ppm | 0.0228 ppm | 0.0331 ppm | 0.0000 ppm | 24.7202 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.1789 ppm | -0.0002 ppm | 0.0210 ppm | 0.0331 ppm | 0.0000 ppm | 24.7182 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.1716 ppm | -0.0009 ppm | 0.0212 ppm | 0.0325 ppm | 0.0000 ppm | 24.6620 ppm |
| Concentration RSD | 1,918.1 % | 2.2 % | 2,280.2 % | 4.6 % | 1.1 % | 1,136.0 % | 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 | -0.0002 ppm | 0.0001 ppm | 0.0072 ppm | 0.0059 ppm | 0.5885 ppm | 3.3437 ppm | 0.0027 ppm |
| Concentration per Run 1 | -0.0003 ppm | 0.0003 ppm | 0.0072 ppm | 0.0059 ppm | 0.5907 ppm | 3.3194 ppm | 0.0026 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0002 ppm | 0.0072 ppm | 0.0057 ppm | 0.5888 ppm | 3.3941 ppm | 0.0030 ppm |
| Concentration per Run 3 | -0.0002 ppm | -0.0002 ppm | 0.0071 ppm | 0.0060 ppm | 0.5861 ppm | 3.3175 ppm | 0.0027 ppm |
| Concentration RSD | 56.2 % | 249.7 % | 0.9 % | 2.3 % | 0.4 % | 1.3 % | 7.6 % |

| | 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 | 5.9549 ppm | 0.1259 ppm | 0.0018 ppm | 97.0770 ppm | 0.0012 ppm | 0.0046 ppm | 0.0012 ppm |
| Concentration per Run 1 | 5.9945 ppm | 0.1265 ppm | 0.0019 ppm | 96.5147 ppm | 0.0008 ppm | 0.0044 ppm | 0.0015 ppm |
| Concentration per Run 2 | 5.9470 ppm | 0.1258 ppm | 0.0016 ppm | 98.2090 ppm | 0.0012 ppm | 0.0054 ppm | 0.0003 ppm |
| Concentration per Run 3 | 5.9231 ppm | 0.1253 ppm | 0.0020 ppm | 96.5074 ppm | 0.0015 ppm | 0.0039 ppm | 0.0020 ppm |
| Concentration RSD | 0.6 % | 0.5 % | 12.4 % | 1.0 % | 32.4 % | 16.8 % | 71.3 % |

| | 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 | 3.6228 ppm | 0.0000 ppm | 0.1673 ppm | 0.0078 ppm | 0.0004 ppm | 0.0019 ppm |
| Concentration per Run 1 | -0.0005 ppm | 3.6507 ppm | -0.0004 ppm | 0.1681 ppm | 0.0079 ppm | 0.0002 ppm | 0.0019 ppm |
| Concentration per Run 2 | -0.0009 ppm | 3.6048 ppm | 0.0012 ppm | 0.1682 ppm | 0.0078 ppm | 0.0008 ppm | 0.0020 ppm |
| Concentration per Run 3 | 0.0003 ppm | 3.6131 ppm | -0.0008 ppm | 0.1655 ppm | 0.0077 ppm | 0.0001 ppm | 0.0019 ppm |
| Concentration RSD | 171.8 % | 0.7 % | 4,787.8 % | 0.9 % | 0.9 % | 108.4 % | 3.4 % |

| | 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 | 0.0319 ppm | 90.9734 % | 96.6894 % | 85.1747 % | 92.3220 % | 98.6905 % | 92.3155 % |
| Concentration per Run 1 | 0.0322 ppm | 90.4627 % | 96.6064 % | 84.7717 % | 92.5359 % | 98.8109 % | 92.4350 % |
| Concentration per Run 2 | 0.0320 ppm | 91.2833 % | 96.5389 % | 85.0393 % | 92.2830 % | 98.6970 % | 92.3500 % |
| Concentration per Run 3 | 0.0315 ppm | 91.1741 % | 96.9229 % | 85.7132 % | 92.1470 % | 98.5635 % | 92.1615 % |
| Concentration RSD | 1.1 % | 0.5 % | 0.2 % | 0.6 % | 0.2 % | 0.1 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 1:42:25 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 | 0.4847 ppm | 0.4877 ppm | 0.4625 ppm | 0.4509 ppm | 0.4967 ppm | 0.4888 ppm | 0.4833 ppm |
| Concentration per Run 1 | 0.4863 ppm | 0.4914 ppm | 0.4604 ppm | 0.4525 ppm | 0.4940 ppm | 0.4904 ppm | 0.4856 ppm |
| Concentration per Run 2 | 0.4851 ppm | 0.4869 ppm | 0.4622 ppm | 0.4515 ppm | 0.5002 ppm | 0.4896 ppm | 0.4828 ppm |
| Concentration per Run 3 | 0.4826 ppm | 0.4847 ppm | 0.4648 ppm | 0.4486 ppm | 0.4958 ppm | 0.4866 ppm | 0.4816 ppm |
| Recovery Percentage 1 | 96.936 % | 97.531 % | 92.493 % | 90.174 % | 99.334 % | 97.767 % | 96.668 % |
| Concentration RSD | 0.4 % | 0.7 % | 0.5 % | 0.4 % | 0.6 % | 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 | 0.4712 ppm | 0.4926 ppm | 0.4762 ppm | 0.4828 ppm | 0.4836 ppm | 5.3110 ppm | 0.5132 ppm |
| Concentration per Run 1 | 0.4756 ppm | 0.4961 ppm | 0.4792 ppm | 0.4849 ppm | 0.4855 ppm | 5.2813 ppm | 0.5107 ppm |
| Concentration per Run 2 | 0.4695 ppm | 0.4916 ppm | 0.4752 ppm | 0.4835 ppm | 0.4845 ppm | 5.3278 ppm | 0.5190 ppm |
| Concentration per Run 3 | 0.4687 ppm | 0.4903 ppm | 0.4743 ppm | 0.4799 ppm | 0.4808 ppm | 5.3237 ppm | 0.5098 ppm |
| Recovery Percentage 1 | 94.249 % | 98.528 % | 95.240 % | 96.551 % | 96.722 % | 106.219 % | 102.639 % |
| Concentration RSD | 0.8 % | 0.6 % | 0.5 % | 0.5 % | 0.5 % | 0.5 % | 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 | 0.4806 ppm | 0.4768 ppm | 0.4750 ppm | 10.3531 ppm | 0.4897 ppm | 0.4820 ppm | 0.4861 ppm |
| Concentration per Run 1 | 0.4836 ppm | 0.4793 ppm | 0.4747 ppm | 10.3032 ppm | 0.4928 ppm | 0.4824 ppm | 0.4859 ppm |
| Concentration per Run 2 | 0.4805 ppm | 0.4764 ppm | 0.4744 ppm | 10.2957 ppm | 0.4891 ppm | 0.4838 ppm | 0.4916 ppm |
| Concentration per Run 3 | 0.4778 ppm | 0.4748 ppm | 0.4758 ppm | 10.4605 ppm | 0.4871 ppm | 0.4799 ppm | 0.4809 ppm |
| Recovery Percentage 1 | 96.124 % | 95.366 % | 94.991 % | 103.531 % | 97.932 % | 96.403 % | 97.227 % |
| Concentration RSD | 0.6 % | 0.5 % | 0.2 % | 0.9 % | 0.6 % | 0.4 % | 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 | 0.4738 ppm | 5.1427 ppm | 0.5004 ppm | 0.5295 ppm | 0.4752 ppm | 0.4862 ppm | 0.4879 ppm |
| Concentration per Run 1 | 0.4704 ppm | 5.1659 ppm | 0.5022 ppm | 0.5292 ppm | 0.4780 ppm | 0.4845 ppm | 0.4908 ppm |
| Concentration per Run 2 | 0.4758 ppm | 5.1504 ppm | 0.4990 ppm | 0.5317 ppm | 0.4744 ppm | 0.4911 ppm | 0.4866 ppm |
| Concentration per Run 3 | 0.4751 ppm | 5.1118 ppm | 0.5000 ppm | 0.5275 ppm | 0.4733 ppm | 0.4828 ppm | 0.4863 ppm |
| Recovery Percentage 1 | 94.752 % | 97.956 % | 100.079 % | 105.891 % | 95.049 % | 97.233 % | 97.583 % |
| Concentration RSD | 0.6 % | 0.5 % | 0.3 % | 0.4 % | 0.5 % | 0.9 % | 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 | 0.4733 ppm | 100.3976 % | 99.7384 % | 95.4116 % | 96.0405 % | 98.2487 % | 96.2538 % |
| Concentration per Run 1 | 0.4780 ppm | 99.6719 % | 99.0501 % | 95.0956 % | 95.5101 % | 98.1827 % | 96.2232 % |
| Concentration per Run 2 | 0.4714 ppm | 100.5888 % | 100.0369 % | 95.5962 % | 96.4560 % | 98.6864 % | 96.5409 % |
| Concentration per Run 3 | 0.4704 ppm | 100.9323 % | 100.1283 % | 95.5430 % | 96.1552 % | 97.8771 % | 95.9973 % |
| Recovery Percentage 1 | 94.659 % | | | | | | |
| Concentration RSD | 0.9 % | 0.6 % | 0.6 % | 0.3 % | 0.5 % | 0.4 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 1:46:50 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 | -0.0007 ppm | -0.0004 ppm | 0.0003 ppm | 0.0001 ppm | 0.0000 ppm | -0.0005 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0014 ppm | 0.0010 ppm | 0.0011 ppm | 0.0001 ppm | 0.0000 ppm | -0.0018 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0019 ppm | -0.0030 ppm | 0.0000 ppm | 0.0001 ppm | 0.0000 ppm | -0.0004 ppm |
| Concentration per Run 3 | -0.0004 ppm | -0.0025 ppm | 0.0007 ppm | -0.0001 ppm | 0.0001 ppm | 0.0000 ppm | 0.0006 ppm |
| Recovery Percentage 1 | -3.576 % | -0.684 % | -8.842 % | 1.008 % | 1.229 % | 0.831 % | -0.547 % |
| Concentration RSD | 116.5 % | 334.7 % | 509.6 % | 227.8 % | 16.9 % | 15.1 % | 224.4 % |

| | 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 | -0.0001 ppm | 0.0002 ppm | -0.0001 ppm | 0.0009 ppm | 0.0248 ppm | -0.0003 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0000 ppm | 0.0002 ppm | 0.0000 ppm | 0.0019 ppm | 0.0219 ppm | -0.0004 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0002 ppm | 0.0001 ppm | -0.0003 ppm | 0.0000 ppm | 0.0322 ppm | -0.0006 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0000 ppm | 0.0002 ppm | -0.0002 ppm | 0.0010 ppm | 0.0202 ppm | 0.0002 ppm |
| Recovery Percentage 1 | -0.755 % | -0.605 % | 1.578 % | -1.435 % | 1.859 % | 0.990 % | -2.769 % |
| Concentration RSD | 176.0 % | 141.9 % | 11.3 % | 86.2 % | 101.1 % | 26.4 % | 155.7 % |

| | 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 | -0.0010 ppm | -0.0001 ppm | 0.0022 ppm | 0.0518 ppm | 0.0000 ppm | 0.0003 ppm | 0.0022 ppm |
| Concentration per Run 1 | -0.0013 ppm | 0.0000 ppm | 0.0020 ppm | 0.0498 ppm | 0.0001 ppm | -0.0004 ppm | 0.0029 ppm |
| Concentration per Run 2 | -0.0011 ppm | -0.0002 ppm | 0.0025 ppm | 0.0506 ppm | -0.0003 ppm | 0.0014 ppm | 0.0015 ppm |
| Concentration per Run 3 | -0.0005 ppm | -0.0001 ppm | 0.0020 ppm | 0.0550 ppm | 0.0002 ppm | 0.0000 ppm | 0.0022 ppm |
| Recovery Percentage 1 | -0.979 % | -0.706 % | 4.329 % | 2.590 % | -0.081 % | 3.266 % | 4.409 % |
| Concentration RSD | 41.3 % | 128.0 % | 13.3 % | 5.4 % | 1,287.8 % | 283.5 % | 32.6 % |

| | 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 | -0.0013 ppm | 0.0004 ppm | 0.0000 ppm | 0.0001 ppm | -0.0002 ppm | -0.0002 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0032 ppm | 0.0005 ppm | 0.0001 ppm | 0.0001 ppm | -0.0001 ppm | -0.0006 ppm | 0.0000 ppm |
| Concentration per Run 2 | -0.0006 ppm | 0.0012 ppm | 0.0001 ppm | 0.0001 ppm | -0.0004 ppm | 0.0001 ppm | 0.0002 ppm |
| Concentration per Run 3 | 0.0001 ppm | -0.0004 ppm | -0.0002 ppm | 0.0001 ppm | -0.0002 ppm | -0.0001 ppm | -0.0001 ppm |
| Recovery Percentage 1 | -12.562 % | 0.087 % | -0.049 % | 0.995 % | -2.481 % | -1.075 % | 0.569 % |
| Concentration RSD | 137.3 % | 193.7 % | 689.0 % | 45.2 % | 65.7 % | 169.7 % | 261.3 % |

| | 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 | -0.0004 ppm | 98.2058 % | 98.6541 % | 96.8496 % | 97.9231 % | 99.2785 % | 97.9963 % |
| Concentration per Run 1 | -0.0005 ppm | 97.6614 % | 98.9649 % | 96.6331 % | 97.6076 % | 99.4918 % | 98.1454 % |
| Concentration per Run 2 | -0.0004 ppm | 97.9571 % | 98.4249 % | 96.5440 % | 97.6986 % | 99.3592 % | 97.8149 % |
| Concentration per Run 3 | -0.0003 ppm | 98.9988 % | 98.5724 % | 97.3717 % | 98.4632 % | 98.9845 % | 98.0285 % |
| Recovery Percentage 1 | -8.672 % | | | | | | |
| Concentration RSD | 24.1 % | 0.7 % | 0.3 % | 0.5 % | 0.5 % | 0.3 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473740-15 WG2012266
Analysis started at: 12/23/2024 2:01:06 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 | 0.0000 ppm | 0.1675 ppm | -0.0009 ppm | 0.0185 ppm | 0.0265 ppm | 0.0000 ppm | 19.0827 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.1669 ppm | -0.0008 ppm | 0.0186 ppm | 0.0267 ppm | 0.0000 ppm | 19.1341 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.1691 ppm | -0.0004 ppm | 0.0180 ppm | 0.0262 ppm | 0.0000 ppm | 19.0254 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.1664 ppm | -0.0015 ppm | 0.0189 ppm | 0.0265 ppm | 0.0000 ppm | 19.0886 ppm |
| Concentration RSD | 921.1 % | 0.9 % | 60.8 % | 2.3 % | 0.9 % | 519.0 % | 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 | -0.0004 ppm | 0.0006 ppm | 0.0058 ppm | 0.4651 ppm | 2.9025 ppm | 0.0013 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0004 ppm | 0.0008 ppm | 0.0057 ppm | 0.4683 ppm | 2.8933 ppm | 0.0018 ppm |
| Concentration per Run 2 | -0.0002 ppm | -0.0005 ppm | 0.0007 ppm | 0.0060 ppm | 0.4635 ppm | 2.8840 ppm | 0.0013 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0005 ppm | 0.0002 ppm | 0.0056 ppm | 0.4636 ppm | 2.9302 ppm | 0.0008 ppm |
| Concentration RSD | 75.2 % | 15.9 % | 57.5 % | 3.8 % | 0.6 % | 0.8 % | 37.2 % |

| | 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 | 4.4748 ppm | 0.1046 ppm | 0.0014 ppm | 78.7904 ppm | 0.0010 ppm | 0.0055 ppm | 0.0005 ppm |
| Concentration per Run 1 | 4.5061 ppm | 0.1047 ppm | 0.0017 ppm | 79.1136 ppm | 0.0013 ppm | 0.0058 ppm | 0.0025 ppm |
| Concentration per Run 2 | 4.4868 ppm | 0.1044 ppm | 0.0012 ppm | 78.3901 ppm | 0.0010 ppm | 0.0054 ppm | -0.0008 ppm |
| Concentration per Run 3 | 4.4314 ppm | 0.1048 ppm | 0.0013 ppm | 78.8677 ppm | 0.0006 ppm | 0.0053 ppm | -0.0001 ppm |
| Concentration RSD | 0.9 % | 0.2 % | 17.5 % | 0.5 % | 33.2 % | 4.5 % | 314.4 % |

| | 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 | -0.0003 ppm | 2.8362 ppm | 0.0003 ppm | 0.1271 ppm | 0.0073 ppm | 0.0007 ppm | 0.0016 ppm |
| Concentration per Run 1 | 0.0002 ppm | 2.8545 ppm | 0.0003 ppm | 0.1279 ppm | 0.0074 ppm | 0.0012 ppm | 0.0014 ppm |
| Concentration per Run 2 | 0.0005 ppm | 2.8412 ppm | 0.0003 ppm | 0.1261 ppm | 0.0075 ppm | 0.0010 ppm | 0.0017 ppm |
| Concentration per Run 3 | -0.0016 ppm | 2.8129 ppm | 0.0001 ppm | 0.1272 ppm | 0.0070 ppm | -0.0002 ppm | 0.0018 ppm |
| Concentration RSD | 371.2 % | 0.7 % | 51.2 % | 0.7 % | 3.8 % | 117.1 % | 13.6 % |

| | 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 | 0.0363 ppm | 92.2748 % | 97.0353 % | 87.0275 % | 93.4960 % | 98.8835 % | 93.1677 % |
| Concentration per Run 1 | 0.0365 ppm | 91.9245 % | 96.9387 % | 86.8800 % | 93.6618 % | 99.0636 % | 93.5352 % |
| Concentration per Run 2 | 0.0363 ppm | 92.0899 % | 97.2776 % | 87.2106 % | 93.3937 % | 98.9284 % | 93.2747 % |
| Concentration per Run 3 | 0.0360 ppm | 92.8099 % | 96.8897 % | 86.9918 % | 93.4326 % | 98.6586 % | 92.6933 % |
| Concentration RSD | 0.6 % | 0.5 % | 0.2 % | 0.2 % | 0.2 % | 0.2 % | 0.5 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473740-16 WG2012266
Analysis started at: 12/23/2024 2:05:38 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 | 0.1676 ppm | 0.0000 ppm | 0.0196 ppm | 0.0259 ppm | 0.0000 ppm | 17.3000 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.1682 ppm | 0.0011 ppm | 0.0197 ppm | 0.0259 ppm | 0.0000 ppm | 17.4600 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.1658 ppm | -0.0006 ppm | 0.0186 ppm | 0.0260 ppm | 0.0000 ppm | 17.1901 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.1689 ppm | -0.0005 ppm | 0.0206 ppm | 0.0259 ppm | 0.0000 ppm | 17.2498 ppm |
| Concentration RSD | 289.0 % | 1.0 % | 22,980.3 % | 5.1 % | 0.4 % | 629.1 % | 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 | -0.0001 ppm | 0.0003 ppm | 0.0008 ppm | 0.0059 ppm | 0.4390 ppm | 3.0587 ppm | 0.0016 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0002 ppm | 0.0008 ppm | 0.0062 ppm | 0.4398 ppm | 3.0703 ppm | 0.0016 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0003 ppm | 0.0009 ppm | 0.0059 ppm | 0.4375 ppm | 3.0564 ppm | 0.0018 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0003 ppm | 0.0008 ppm | 0.0057 ppm | 0.4397 ppm | 3.0496 ppm | 0.0014 ppm |
| Concentration RSD | 64.4 % | 23.2 % | 8.0 % | 4.1 % | 0.3 % | 0.3 % | 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 | 4.5283 ppm | 0.0893 ppm | 0.0011 ppm | 78.4042 ppm | 0.0011 ppm | 0.0057 ppm | 0.0015 ppm |
| Concentration per Run 1 | 4.5711 ppm | 0.0898 ppm | 0.0012 ppm | 78.2223 ppm | 0.0016 ppm | 0.0055 ppm | 0.0009 ppm |
| Concentration per Run 2 | 4.5325 ppm | 0.0890 ppm | 0.0008 ppm | 78.3575 ppm | 0.0011 ppm | 0.0054 ppm | 0.0008 ppm |
| Concentration per Run 3 | 4.4814 ppm | 0.0889 ppm | 0.0012 ppm | 78.6328 ppm | 0.0005 ppm | 0.0062 ppm | 0.0029 ppm |
| Concentration RSD | 1.0 % | 0.5 % | 21.8 % | 0.3 % | 55.6 % | 8.2 % | 76.9 % |

| | 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 | 2.6352 ppm | 0.0002 ppm | 0.1154 ppm | 0.0078 ppm | -0.0001 ppm | 0.0016 ppm |
| Concentration per Run 1 | 0.0009 ppm | 2.6659 ppm | 0.0003 ppm | 0.1154 ppm | 0.0076 ppm | 0.0000 ppm | 0.0015 ppm |
| Concentration per Run 2 | -0.0017 ppm | 2.6259 ppm | 0.0006 ppm | 0.1156 ppm | 0.0078 ppm | 0.0003 ppm | 0.0016 ppm |
| Concentration per Run 3 | -0.0016 ppm | 2.6138 ppm | -0.0002 ppm | 0.1152 ppm | 0.0080 ppm | -0.0005 ppm | 0.0017 ppm |
| Concentration RSD | 179.2 % | 1.0 % | 194.8 % | 0.2 % | 2.5 % | 574.4 % | 4.7 % |

| | 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 | 0.0363 ppm | 92.0295 % | 96.5627 % | 87.1599 % | 93.3097 % | 98.3992 % | 93.6030 % |
| Concentration per Run 1 | 0.0366 ppm | 91.3275 % | 95.6938 % | 87.0406 % | 93.0920 % | 97.5033 % | 93.8342 % |
| Concentration per Run 2 | 0.0367 ppm | 91.9406 % | 96.9166 % | 87.4362 % | 93.1860 % | 99.1206 % | 93.9206 % |
| Concentration per Run 3 | 0.0356 ppm | 92.8203 % | 97.0777 % | 87.0028 % | 93.6512 % | 98.5736 % | 93.0542 % |
| Concentration RSD | 1.6 % | 0.8 % | 0.8 % | 0.3 % | 0.3 % | 0.8 % | 0.5 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474281-11 WG2012440
Analysis started at: 12/23/2024 2:10:04 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 | 0.0000 ppm | 0.0177 ppm | 0.0027 ppm | 0.0051 ppm | 0.0071 ppm | 0.0000 ppm | 20.2995 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0183 ppm | 0.0024 ppm | 0.0047 ppm | 0.0072 ppm | 0.0000 ppm | 20.3407 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0158 ppm | 0.0023 ppm | 0.0054 ppm | 0.0070 ppm | 0.0000 ppm | 20.3216 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0189 ppm | 0.0034 ppm | 0.0054 ppm | 0.0071 ppm | 0.0000 ppm | 20.2363 ppm |
| Concentration RSD | 156.7 % | 9.2 % | 23.3 % | 8.1 % | 1.5 % | 167.4 % | 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 | -0.0001 ppm | 0.0002 ppm | 0.0014 ppm | 0.0026 ppm | 1.1254 ppm | 0.0034 ppm |
| Concentration per Run 1 | -0.0002 ppm | -0.0003 ppm | 0.0002 ppm | 0.0014 ppm | 0.0027 ppm | 1.1338 ppm | 0.0035 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0002 ppm | 0.0004 ppm | 0.0015 ppm | 0.0026 ppm | 1.1185 ppm | 0.0035 ppm |
| Concentration per Run 3 | -0.0002 ppm | -0.0002 ppm | 0.0001 ppm | 0.0013 ppm | 0.0025 ppm | 1.1239 ppm | 0.0031 ppm |
| Concentration RSD | 41.6 % | 294.9 % | 52.3 % | 6.8 % | 4.2 % | 0.7 % | 6.2 % |

| | 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 | 6.2107 ppm | 0.0420 ppm | 0.0017 ppm | 7.5862 ppm | 0.0001 ppm | 0.0002 ppm | 0.0004 ppm |
| Concentration per Run 1 | 6.2516 ppm | 0.0420 ppm | 0.0016 ppm | 7.6121 ppm | 0.0002 ppm | 0.0003 ppm | 0.0030 ppm |
| Concentration per Run 2 | 6.2191 ppm | 0.0423 ppm | 0.0017 ppm | 7.5504 ppm | 0.0000 ppm | 0.0005 ppm | -0.0012 ppm |
| Concentration per Run 3 | 6.1616 ppm | 0.0419 ppm | 0.0017 ppm | 7.5962 ppm | 0.0002 ppm | -0.0002 ppm | -0.0005 ppm |
| Concentration RSD | 0.7 % | 0.5 % | 5.6 % | 0.4 % | 69.8 % | 187.6 % | 504.3 % |

| | 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 | -0.0003 ppm | 5.0517 ppm | -0.0001 ppm | 0.1398 ppm | -0.0004 ppm | -0.0006 ppm | 0.0007 ppm |
| Concentration per Run 1 | -0.0003 ppm | 5.0935 ppm | -0.0003 ppm | 0.1400 ppm | -0.0003 ppm | -0.0007 ppm | 0.0006 ppm |
| Concentration per Run 2 | 0.0003 ppm | 5.0468 ppm | 0.0004 ppm | 0.1393 ppm | -0.0004 ppm | -0.0010 ppm | 0.0008 ppm |
| Concentration per Run 3 | -0.0010 ppm | 5.0149 ppm | -0.0003 ppm | 0.1401 ppm | -0.0004 ppm | -0.0002 ppm | 0.0005 ppm |
| Concentration RSD | 206.6 % | 0.8 % | 614.2 % | 0.3 % | 18.0 % | 69.6 % | 22.6 % |

| | 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 | 0.0128 ppm | 94.1198 % | 97.3846 % | 91.4662 % | 96.0767 % | 99.8972 % | 96.0246 % |
| Concentration per Run 1 | 0.0131 ppm | 93.4469 % | 97.6376 % | 91.3331 % | 96.1236 % | 100.2540 % | 96.1782 % |
| Concentration per Run 2 | 0.0125 ppm | 93.9601 % | 97.2501 % | 91.2224 % | 95.9592 % | 99.6440 % | 95.6457 % |
| Concentration per Run 3 | 0.0127 ppm | 94.9524 % | 97.2660 % | 91.8431 % | 96.1473 % | 99.7936 % | 96.2499 % |
| Concentration RSD | 2.4 % | 0.8 % | 0.2 % | 0.4 % | 0.1 % | 0.3 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474329-01 WG2012440
Analysis started at: 12/23/2024 2:14:30 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 | 0.0001 ppm | 0.0034 ppm | -0.0007 ppm | 0.0206 ppm | 0.0455 ppm | 0.0000 ppm | 10.7854 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.0069 ppm | -0.0011 ppm | 0.0213 ppm | 0.0457 ppm | 0.0000 ppm | 10.7760 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0015 ppm | -0.0004 ppm | 0.0209 ppm | 0.0454 ppm | 0.0000 ppm | 10.7474 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0018 ppm | -0.0006 ppm | 0.0195 ppm | 0.0455 ppm | 0.0000 ppm | 10.8326 ppm |
| Concentration RSD | 79.1 % | 89.4 % | 48.3 % | 4.5 % | 0.3 % | 407.7 % | 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 | -0.0002 ppm | 0.0003 ppm | 0.0002 ppm | 0.0060 ppm | 1.7683 ppm | -0.0001 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0004 ppm | 0.0003 ppm | 0.0001 ppm | 0.0059 ppm | 1.7822 ppm | -0.0001 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0003 ppm | 0.0004 ppm | 0.0000 ppm | 0.0056 ppm | 1.7719 ppm | 0.0000 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0002 ppm | 0.0004 ppm | 0.0005 ppm | 0.0066 ppm | 1.7509 ppm | -0.0003 ppm |
| Concentration RSD | 154.4 % | 185.9 % | 21.3 % | 132.0 % | 8.6 % | 0.9 % | 130.9 % |

| | 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 | 3.2752 ppm | 0.0076 ppm | -0.0001 ppm | 57.9530 ppm | 0.0002 ppm | -0.0002 ppm | 0.0013 ppm |
| Concentration per Run 1 | 3.3018 ppm | 0.0076 ppm | -0.0001 ppm | 57.7511 ppm | 0.0000 ppm | 0.0001 ppm | 0.0007 ppm |
| Concentration per Run 2 | 3.2666 ppm | 0.0075 ppm | 0.0001 ppm | 58.2656 ppm | 0.0002 ppm | -0.0006 ppm | 0.0032 ppm |
| Concentration per Run 3 | 3.2574 ppm | 0.0076 ppm | -0.0005 ppm | 57.8422 ppm | 0.0005 ppm | 0.0000 ppm | 0.0000 ppm |
| Concentration RSD | 0.7 % | 0.7 % | 223.3 % | 0.5 % | 130.5 % | 220.8 % | 134.5 % |

| | 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 | -0.0007 ppm | 3.0285 ppm | 0.0003 ppm | 0.0554 ppm | -0.0004 ppm | 0.0000 ppm | 0.0002 ppm |
| Concentration per Run 1 | -0.0006 ppm | 3.0543 ppm | 0.0001 ppm | 0.0556 ppm | -0.0005 ppm | -0.0001 ppm | 0.0002 ppm |
| Concentration per Run 2 | -0.0024 ppm | 3.0205 ppm | 0.0005 ppm | 0.0552 ppm | -0.0004 ppm | 0.0006 ppm | 0.0002 ppm |
| Concentration per Run 3 | 0.0008 ppm | 3.0108 ppm | 0.0002 ppm | 0.0553 ppm | -0.0003 ppm | -0.0006 ppm | 0.0001 ppm |
| Concentration RSD | 226.1 % | 0.8 % | 95.0 % | 0.4 % | 31.0 % | 2,240.9 % | 37.3 % |

| | 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 | 0.0003 ppm | 92.2274 % | 97.1193 % | 88.5275 % | 93.7968 % | 98.8066 % | 94.2457 % |
| Concentration per Run 1 | 0.0004 ppm | 91.5723 % | 97.3886 % | 88.2599 % | 94.0008 % | 98.8578 % | 94.7576 % |
| Concentration per Run 2 | 0.0002 ppm | 92.4942 % | 97.3164 % | 88.6008 % | 93.7957 % | 99.1245 % | 94.3175 % |
| Concentration per Run 3 | 0.0004 ppm | 92.6156 % | 96.6528 % | 88.7220 % | 93.5939 % | 98.4376 % | 93.6620 % |
| Concentration RSD | 38.8 % | 0.6 % | 0.4 % | 0.3 % | 0.2 % | 0.4 % | 0.6 % |

# iCAP Pro Trace 8 Data report
12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474329-02 WG2012440
Analysis started at: 12/23/2024 2:18:56 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 | 0.0000 ppm | 0.0009 ppm | -0.0008 ppm | 0.0060 ppm | 0.0158 ppm | 0.0000 ppm | 11.9280 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0026 ppm | -0.0003 ppm | 0.0061 ppm | 0.0157 ppm | 0.0000 ppm | 11.9375 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0015 ppm | -0.0006 ppm | 0.0062 ppm | 0.0158 ppm | 0.0000 ppm | 11.9608 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0017 ppm | -0.0015 ppm | 0.0058 ppm | 0.0159 ppm | 0.0000 ppm | 11.8856 ppm |
| Concentration RSD | 234.0 % | 237.3 % | 79.1 % | 3.8 % | 0.6 % | 2.6 % | 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 | 0.0000 ppm | 0.0028 ppm | 0.0001 ppm | 0.0032 ppm | 1.0291 ppm | 0.0035 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0001 ppm | 0.0027 ppm | 0.0001 ppm | 0.0029 ppm | 1.0331 ppm | 0.0033 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | 0.0030 ppm | 0.0002 ppm | 0.0035 ppm | 1.0156 ppm | 0.0039 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0002 ppm | 0.0027 ppm | 0.0001 ppm | 0.0032 ppm | 1.0385 ppm | 0.0032 ppm |
| Concentration RSD | 114.7 % | 400.8 % | 5.8 % | 65.1 % | 9.3 % | 1.2 % | 10.5 % |

| | 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 | 5.9581 ppm | 0.0002 ppm | -0.0003 ppm | 9.1362 ppm | 0.0006 ppm | -0.0007 ppm | 0.0010 ppm |
| Concentration per Run 1 | 6.0315 ppm | 0.0003 ppm | -0.0002 ppm | 9.1345 ppm | 0.0006 ppm | -0.0007 ppm | -0.0010 ppm |
| Concentration per Run 2 | 5.9385 ppm | 0.0002 ppm | -0.0005 ppm | 9.0600 ppm | 0.0004 ppm | -0.0005 ppm | 0.0019 ppm |
| Concentration per Run 3 | 5.9043 ppm | 0.0002 ppm | -0.0002 ppm | 9.2141 ppm | 0.0009 ppm | -0.0009 ppm | 0.0020 ppm |
| Concentration RSD | 1.1 % | 20.6 % | 54.2 % | 0.8 % | 35.4 % | 33.8 % | 172.3 % |

| | 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 | -0.0003 ppm | 9.8450 ppm | -0.0006 ppm | 0.0538 ppm | -0.0004 ppm | 0.0001 ppm | 0.0002 ppm |
| Concentration per Run 1 | 0.0002 ppm | 9.9382 ppm | -0.0011 ppm | 0.0538 ppm | -0.0004 ppm | -0.0007 ppm | 0.0002 ppm |
| Concentration per Run 2 | -0.0016 ppm | 9.8601 ppm | -0.0007 ppm | 0.0538 ppm | -0.0003 ppm | 0.0008 ppm | 0.0002 ppm |
| Concentration per Run 3 | 0.0005 ppm | 9.7367 ppm | 0.0001 ppm | 0.0539 ppm | -0.0005 ppm | 0.0004 ppm | 0.0003 ppm |
| Concentration RSD | 413.1 % | 1.0 % | 99.9 % | 0.2 % | 33.5 % | 566.8 % | 28.1 % |

| | 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 | 0.0004 ppm | 95.1055 % | 97.6151 % | 92.2864 % | 96.6786 % | 99.6560 % | 96.3887 % |
| Concentration per Run 1 | 0.0003 ppm | 94.3239 % | 97.9444 % | 91.8287 % | 96.7461 % | 99.9482 % | 96.5804 % |
| Concentration per Run 2 | 0.0002 ppm | 95.3723 % | 96.9020 % | 92.3841 % | 96.7696 % | 99.4708 % | 96.3762 % |
| Concentration per Run 3 | 0.0005 ppm | 95.6202 % | 97.9989 % | 92.6465 % | 96.5202 % | 99.5490 % | 96.2093 % |
| Concentration RSD | 37.8 % | 0.7 % | 0.6 % | 0.5 % | 0.1 % | 0.3 % | 0.2 % |

# iCAP Pro Trace 8 Data report
12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474329-03 WG2012440
Analysis started at: 12/23/2024 2:23:25 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 | 0.0000 ppm | 0.0018 ppm | -0.0012 ppm | 0.0175 ppm | 0.0740 ppm | 0.0000 ppm | 8.3463 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0015 ppm | -0.0027 ppm | 0.0171 ppm | 0.0741 ppm | 0.0000 ppm | 8.3863 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0030 ppm | -0.0010 ppm | 0.0179 ppm | 0.0742 ppm | 0.0000 ppm | 8.3708 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0038 ppm | 0.0001 ppm | 0.0176 ppm | 0.0737 ppm | 0.0000 ppm | 8.2819 ppm |
| Concentration RSD | 377.2 % | 161.9 % | 118.3 % | 2.2 % | 0.3 % | 3,385.2 % | 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 | -0.0001 ppm | 0.0000 ppm | 0.0003 ppm | 0.0005 ppm | 0.0269 ppm | 1.4461 ppm | 0.0000 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0002 ppm | 0.0001 ppm | 0.0007 ppm | 0.0267 ppm | 1.4366 ppm | -0.0006 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0003 ppm | 0.0005 ppm | 0.0003 ppm | 0.0271 ppm | 1.4363 ppm | 0.0005 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0001 ppm | 0.0003 ppm | 0.0006 ppm | 0.0270 ppm | 1.4653 ppm | 0.0000 ppm |
| Concentration RSD | 29.8 % | 1,305,810.5 % | 69.3 % | 31.2 % | 0.8 % | 1.2 % | 1,110.5 % |

| | 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 | 2.7100 ppm | 0.0278 ppm | -0.0005 ppm | 67.8762 ppm | 0.0016 ppm | -0.0001 ppm | 0.0007 ppm |
| Concentration per Run 1 | 2.7262 ppm | 0.0278 ppm | -0.0004 ppm | 67.1919 ppm | 0.0017 ppm | -0.0003 ppm | 0.0009 ppm |
| Concentration per Run 2 | 2.7206 ppm | 0.0279 ppm | -0.0009 ppm | 67.7666 ppm | 0.0012 ppm | -0.0003 ppm | 0.0016 ppm |
| Concentration per Run 3 | 2.6831 ppm | 0.0277 ppm | -0.0003 ppm | 68.6701 ppm | 0.0018 ppm | 0.0002 ppm | -0.0003 ppm |
| Concentration RSD | 0.9 % | 0.4 % | 65.6 % | 1.1 % | 20.2 % | 191.6 % | 124.6 % |

| | 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 | -0.0016 ppm | 5.2599 ppm | 0.0006 ppm | 0.0461 ppm | -0.0004 ppm | -0.0004 ppm | 0.0002 ppm |
| Concentration per Run 1 | -0.0009 ppm | 5.2814 ppm | 0.0004 ppm | 0.0461 ppm | -0.0004 ppm | -0.0008 ppm | 0.0003 ppm |
| Concentration per Run 2 | -0.0016 ppm | 5.2639 ppm | 0.0000 ppm | 0.0461 ppm | -0.0003 ppm | -0.0004 ppm | 0.0003 ppm |
| Concentration per Run 3 | -0.0024 ppm | 5.2342 ppm | 0.0014 ppm | 0.0459 ppm | -0.0005 ppm | 0.0000 ppm | 0.0001 ppm |
| Concentration RSD | 48.1 % | 0.5 % | 130.4 % | 0.2 % | 29.9 % | 109.5 % | 47.3 % |

| | 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 | 0.0086 ppm | 92.3671 % | 96.5135 % | 87.8157 % | 93.9215 % | 98.4460 % | 94.0105 % |
| Concentration per Run 1 | 0.0087 ppm | 91.9603 % | 96.2291 % | 87.3337 % | 94.0458 % | 98.7906 % | 93.7326 % |
| Concentration per Run 2 | 0.0086 ppm | 92.1750 % | 96.3384 % | 87.8488 % | 93.8810 % | 98.0961 % | 94.2529 % |
| Concentration per Run 3 | 0.0085 ppm | 92.9661 % | 96.9729 % | 88.2646 % | 93.8376 % | 98.4513 % | 94.0458 % |
| Concentration RSD | 1.4 % | 0.6 % | 0.4 % | 0.5 % | 0.1 % | 0.4 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474329-04 WG2012440
Analysis started at: 12/23/2024 2:27:52 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 | 0.0000 ppm | 0.0012 ppm | -0.0012 ppm | 0.0142 ppm | 0.0381 ppm | 0.0000 ppm | 13.4831 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0006 ppm | -0.0030 ppm | 0.0139 ppm | 0.0383 ppm | 0.0000 ppm | 13.4754 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0019 ppm | -0.0008 ppm | 0.0150 ppm | 0.0381 ppm | 0.0000 ppm | 13.5071 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0011 ppm | 0.0001 ppm | 0.0137 ppm | 0.0380 ppm | 0.0000 ppm | 13.4667 ppm |
| Concentration RSD | 839.2 % | 55.2 % | 132.8 % | 5.2 % | 0.4 % | 235.7 % | 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 | -0.0001 ppm | -0.0003 ppm | 0.0038 ppm | 0.0003 ppm | 0.0058 ppm | 1.1592 ppm | 0.0022 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0001 ppm | 0.0036 ppm | 0.0000 ppm | 0.0062 ppm | 1.1643 ppm | 0.0026 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0006 ppm | 0.0037 ppm | 0.0004 ppm | 0.0052 ppm | 1.1726 ppm | 0.0021 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0003 ppm | 0.0040 ppm | 0.0005 ppm | 0.0061 ppm | 1.1406 ppm | 0.0019 ppm |
| Concentration RSD | 21.6 % | 86.4 % | 5.0 % | 82.6 % | 9.5 % | 1.4 % | 15.6 % |

| | 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 | 5.6582 ppm | 0.0008 ppm | -0.0005 ppm | 14.4487 ppm | 0.0035 ppm | -0.0003 ppm | 0.0025 ppm |
| Concentration per Run 1 | 5.6894 ppm | 0.0009 ppm | -0.0005 ppm | 14.3650 ppm | 0.0036 ppm | -0.0004 ppm | 0.0010 ppm |
| Concentration per Run 2 | 5.6734 ppm | 0.0009 ppm | -0.0004 ppm | 14.5925 ppm | 0.0033 ppm | -0.0008 ppm | 0.0024 ppm |
| Concentration per Run 3 | 5.6118 ppm | 0.0007 ppm | -0.0006 ppm | 14.3885 ppm | 0.0037 ppm | 0.0003 ppm | 0.0040 ppm |
| Concentration RSD | 0.7 % | 8.3 % | 22.3 % | 0.9 % | 5.9 % | 174.0 % | 59.7 % |

| | 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 | -0.0011 ppm | 9.8355 ppm | 0.0000 ppm | 0.0853 ppm | -0.0004 ppm | 0.0001 ppm | 0.0004 ppm |
| Concentration per Run 1 | -0.0011 ppm | 9.8969 ppm | 0.0005 ppm | 0.0856 ppm | -0.0003 ppm | 0.0002 ppm | 0.0003 ppm |
| Concentration per Run 2 | -0.0010 ppm | 9.8654 ppm | 0.0006 ppm | 0.0852 ppm | -0.0005 ppm | 0.0002 ppm | 0.0003 ppm |
| Concentration per Run 3 | -0.0013 ppm | 9.7443 ppm | -0.0009 ppm | 0.0850 ppm | -0.0004 ppm | -0.0001 ppm | 0.0004 ppm |
| Concentration RSD | 12.7 % | 0.8 % | 1,713.0 % | 0.3 % | 21.5 % | 228.5 % | 6.2 % |

| | 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 | 0.0101 ppm | 94.4189 % | 97.1179 % | 91.4337 % | 96.0122 % | 99.4740 % | 95.9979 % |
| Concentration per Run 1 | 0.0100 ppm | 94.1165 % | 97.2356 % | 91.1930 % | 96.2212 % | 99.8870 % | 96.2577 % |
| Concentration per Run 2 | 0.0102 ppm | 94.3070 % | 96.9815 % | 91.8054 % | 95.8389 % | 99.2177 % | 96.2909 % |
| Concentration per Run 3 | 0.0100 ppm | 94.8333 % | 97.1365 % | 91.3026 % | 95.9766 % | 99.3172 % | 95.4451 % |
| Concentration RSD | 1.0 % | 0.4 % | 0.1 % | 0.4 % | 0.2 % | 0.4 % | 0.5 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474329-05 WG2012440
Analysis started at: 12/23/2024 2:32:19 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 | -0.0001 ppm | 0.0003 ppm | -0.0016 ppm | 0.0007 ppm | 0.0002 ppm | 0.0000 ppm | 0.0085 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0018 ppm | -0.0020 ppm | 0.0012 ppm | 0.0002 ppm | 0.0000 ppm | 0.0078 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0010 ppm | -0.0019 ppm | 0.0003 ppm | 0.0001 ppm | 0.0000 ppm | 0.0088 ppm |
| Concentration per Run 3 | -0.0002 ppm | -0.0019 ppm | -0.0009 ppm | 0.0007 ppm | 0.0001 ppm | 0.0000 ppm | 0.0088 ppm |
| Concentration RSD | 127.6 % | 598.7 % | 39.2 % | 57.1 % | 27.5 % | 228.8 % | 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 | -0.0001 ppm | -0.0003 ppm | 0.0001 ppm | -0.0002 ppm | 0.0027 ppm | 0.0185 ppm | -0.0002 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0004 ppm | 0.0002 ppm | -0.0002 ppm | 0.0023 ppm | 0.0111 ppm | -0.0007 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0003 ppm | 0.0001 ppm | -0.0002 ppm | 0.0031 ppm | 0.0241 ppm | 0.0003 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0002 ppm | 0.0000 ppm | -0.0001 ppm | 0.0026 ppm | 0.0203 ppm | -0.0001 ppm |
| Concentration RSD | 76.2 % | 33.4 % | 116.8 % | 38.1 % | 14.3 % | 36.2 % | 297.6 % |

| | 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 | -0.0004 ppm | 0.0239 ppm | 0.0002 ppm | -0.0008 ppm | 0.0019 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0000 ppm | -0.0004 ppm | 0.0228 ppm | 0.0001 ppm | -0.0011 ppm | 0.0018 ppm |
| Concentration per Run 2 | 0.0005 ppm | 0.0001 ppm | -0.0005 ppm | 0.0238 ppm | 0.0001 ppm | -0.0006 ppm | 0.0022 ppm |
| Concentration per Run 3 | 0.0012 ppm | 0.0002 ppm | -0.0002 ppm | 0.0250 ppm | 0.0003 ppm | -0.0009 ppm | 0.0017 ppm |
| Concentration RSD | 97.0 % | 106.1 % | 47.9 % | 4.5 % | 58.5 % | 31.3 % | 13.2 % |

| | 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 | -0.0002 ppm | 0.0042 ppm | -0.0004 ppm | 0.0002 ppm | -0.0003 ppm | 0.0001 ppm | 0.0000 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0045 ppm | -0.0006 ppm | 0.0002 ppm | -0.0004 ppm | 0.0010 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0011 ppm | 0.0039 ppm | -0.0008 ppm | 0.0002 ppm | -0.0002 ppm | -0.0006 ppm | 0.0000 ppm |
| Concentration per Run 3 | 0.0006 ppm | 0.0041 ppm | 0.0001 ppm | 0.0002 ppm | -0.0004 ppm | -0.0001 ppm | -0.0001 ppm |
| Concentration RSD | 333.6 % | 7.8 % | 115.3 % | 6.5 % | 34.8 % | 798.1 % | 325.9 % |

| | 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 | -0.0002 ppm | 97.7029 % | 99.4602 % | 96.7498 % | 99.1115 % | 101.3581 % | 98.1787 % |
| Concentration per Run 1 | -0.0002 ppm | 97.2127 % | 98.6540 % | 96.6023 % | 99.1121 % | 101.1040 % | 98.2530 % |
| Concentration per Run 2 | -0.0001 ppm | 97.5069 % | 99.5713 % | 96.6966 % | 99.0344 % | 101.4339 % | 98.1098 % |
| Concentration per Run 3 | -0.0001 ppm | 98.3892 % | 100.1554 % | 96.9504 % | 99.1881 % | 101.5364 % | 98.1734 % |
| Concentration RSD | 5.8 % | 0.6 % | 0.8 % | 0.2 % | 0.1 % | 0.2 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 2:36:46 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 | 0.4823 ppm | 0.4866 ppm | 0.4619 ppm | 0.4487 ppm | 0.4978 ppm | 0.4897 ppm | 0.4792 ppm |
| Concentration per Run 1 | 0.4847 ppm | 0.4867 ppm | 0.4612 ppm | 0.4485 ppm | 0.4977 ppm | 0.4917 ppm | 0.4812 ppm |
| Concentration per Run 2 | 0.4820 ppm | 0.4828 ppm | 0.4596 ppm | 0.4514 ppm | 0.4972 ppm | 0.4878 ppm | 0.4798 ppm |
| Concentration per Run 3 | 0.4803 ppm | 0.4904 ppm | 0.4648 ppm | 0.4463 ppm | 0.4986 ppm | 0.4897 ppm | 0.4767 ppm |
| Recovery Percentage 1 | 96.463 % | 97.328 % | 92.378 % | 89.744 % | 99.567 % | 97.947 % | 95.847 % |
| Concentration RSD | 0.5 % | 0.8 % | 0.6 % | 0.6 % | 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 | 0.4711 ppm | 0.4904 ppm | 0.4746 ppm | 0.4811 ppm | 0.4855 ppm | 5.3029 ppm | 0.5170 ppm |
| Concentration per Run 1 | 0.4725 ppm | 0.4911 ppm | 0.4763 ppm | 0.4819 ppm | 0.4855 ppm | 5.3292 ppm | 0.5208 ppm |
| Concentration per Run 2 | 0.4737 ppm | 0.4929 ppm | 0.4757 ppm | 0.4815 ppm | 0.4858 ppm | 5.2857 ppm | 0.5148 ppm |
| Concentration per Run 3 | 0.4672 ppm | 0.4871 ppm | 0.4718 ppm | 0.4798 ppm | 0.4852 ppm | 5.2938 ppm | 0.5154 ppm |
| Recovery Percentage 1 | 94.225 % | 98.077 % | 94.924 % | 96.212 % | 97.107 % | 106.058 % | 103.404 % |
| Concentration RSD | 0.7 % | 0.6 % | 0.5 % | 0.2 % | 0.1 % | 0.4 % | 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 | 0.4770 ppm | 0.4764 ppm | 0.4725 ppm | 10.3292 ppm | 0.4870 ppm | 0.4806 ppm | 0.4835 ppm |
| Concentration per Run 1 | 0.4784 ppm | 0.4773 ppm | 0.4708 ppm | 10.3021 ppm | 0.4900 ppm | 0.4787 ppm | 0.4871 ppm |
| Concentration per Run 2 | 0.4804 ppm | 0.4761 ppm | 0.4729 ppm | 10.3303 ppm | 0.4893 ppm | 0.4822 ppm | 0.4844 ppm |
| Concentration per Run 3 | 0.4723 ppm | 0.4758 ppm | 0.4737 ppm | 10.3551 ppm | 0.4817 ppm | 0.4810 ppm | 0.4791 ppm |
| Recovery Percentage 1 | 95.408 % | 95.277 % | 94.492 % | 103.292 % | 97.401 % | 96.128 % | 96.704 % |
| Concentration RSD | 0.9 % | 0.2 % | 0.3 % | 0.3 % | 0.9 % | 0.4 % | 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 | 0.4759 ppm | 5.1173 ppm | 0.4993 ppm | 0.5293 ppm | 0.4740 ppm | 0.4858 ppm | 0.4860 ppm |
| Concentration per Run 1 | 0.4743 ppm | 5.1267 ppm | 0.5019 ppm | 0.5314 ppm | 0.4753 ppm | 0.4844 ppm | 0.4875 ppm |
| Concentration per Run 2 | 0.4763 ppm | 5.1371 ppm | 0.5005 ppm | 0.5265 ppm | 0.4745 ppm | 0.4853 ppm | 0.4866 ppm |
| Concentration per Run 3 | 0.4772 ppm | 5.0882 ppm | 0.4954 ppm | 0.5300 ppm | 0.4721 ppm | 0.4877 ppm | 0.4841 ppm |
| Recovery Percentage 1 | 95.183 % | 97.472 % | 99.856 % | 105.863 % | 94.791 % | 97.157 % | 97.210 % |
| Concentration RSD | 0.3 % | 0.5 % | 0.7 % | 0.5 % | 0.4 % | 0.3 % | 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 | 0.4725 ppm | 100.6981 % | 99.9055 % | 95.5848 % | 95.8038 % | 98.5308 % | 96.2159 % |
| Concentration per Run 1 | 0.4754 ppm | 100.3872 % | 99.8204 % | 95.4615 % | 95.6320 % | 99.0930 % | 96.0268 % |
| Concentration per Run 2 | 0.4744 ppm | 100.2181 % | 99.7452 % | 95.7495 % | 95.4795 % | 97.9271 % | 96.6765 % |
| Concentration per Run 3 | 0.4679 ppm | 101.4891 % | 100.1510 % | 95.5433 % | 96.3000 % | 98.5723 % | 95.9443 % |
| Recovery Percentage 1 | 94.509 % | | | | | | |
| Concentration RSD | 0.9 % | 0.7 % | 0.2 % | 0.2 % | 0.5 % | 0.6 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 2:41:11 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 | -0.0004 ppm | -0.0010 ppm | -0.0007 ppm | 0.0001 ppm | 0.0000 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0016 ppm | -0.0003 ppm | -0.0001 ppm | 0.0001 ppm | 0.0000 ppm | 0.0012 ppm |
| Concentration per Run 2 | 0.0002 ppm | -0.0012 ppm | -0.0016 ppm | -0.0009 ppm | 0.0001 ppm | 0.0000 ppm | -0.0017 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0016 ppm | -0.0013 ppm | -0.0010 ppm | 0.0000 ppm | 0.0000 ppm | 0.0009 ppm |
| Recovery Percentage 1 | 1.507 % | -0.409 % | -20.574 % | -2.332 % | 0.511 % | 0.525 % | 0.135 % |
| Concentration RSD | 134.2 % | 435.3 % | 66.7 % | 69.4 % | 38.2 % | 45.2 % | 1,150.3 % |

| | 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 | -0.0003 ppm | 0.0001 ppm | -0.0003 ppm | 0.0007 ppm | 0.0156 ppm | -0.0005 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0001 ppm | 0.0000 ppm | -0.0004 ppm | 0.0012 ppm | 0.0180 ppm | -0.0006 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0005 ppm | 0.0001 ppm | -0.0003 ppm | 0.0004 ppm | 0.0091 ppm | -0.0006 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0002 ppm | 0.0002 ppm | -0.0004 ppm | 0.0006 ppm | 0.0195 ppm | -0.0002 ppm |
| Recovery Percentage 1 | 0.988 % | -2.556 % | 0.942 % | -3.425 % | 1.459 % | 0.622 % | -4.813 % |
| Concentration RSD | 72.7 % | 85.2 % | 114.4 % | 19.0 % | 62.2 % | 36.0 % | 49.1 % |

| | 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 | -0.0011 ppm | 0.0001 ppm | 0.0021 ppm | 0.0302 ppm | 0.0002 ppm | -0.0007 ppm | 0.0013 ppm |
| Concentration per Run 1 | -0.0007 ppm | 0.0000 ppm | 0.0019 ppm | 0.0312 ppm | 0.0003 ppm | -0.0005 ppm | -0.0002 ppm |
| Concentration per Run 2 | -0.0006 ppm | -0.0001 ppm | 0.0020 ppm | 0.0306 ppm | 0.0001 ppm | -0.0008 ppm | 0.0013 ppm |
| Concentration per Run 3 | -0.0019 ppm | 0.0002 ppm | 0.0022 ppm | 0.0289 ppm | 0.0000 ppm | -0.0007 ppm | 0.0029 ppm |
| Recovery Percentage 1 | -1.061 % | 0.548 % | 4.114 % | 1.510 % | 0.665 % | -6.619 % | 2.675 % |
| Concentration RSD | 68.1 % | 285.5 % | 7.9 % | 3.9 % | 91.5 % | 25.3 % | 116.7 % |

| | 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 | -0.0007 ppm | 0.0010 ppm | 0.0007 ppm | 0.0001 ppm | -0.0003 ppm | 0.0005 ppm | 0.0002 ppm |
| Concentration per Run 1 | -0.0013 ppm | -0.0002 ppm | 0.0006 ppm | 0.0001 ppm | -0.0003 ppm | 0.0004 ppm | 0.0001 ppm |
| Concentration per Run 2 | 0.0005 ppm | 0.0028 ppm | 0.0011 ppm | 0.0001 ppm | -0.0003 ppm | 0.0008 ppm | 0.0001 ppm |
| Concentration per Run 3 | -0.0012 ppm | 0.0004 ppm | 0.0004 ppm | 0.0001 ppm | -0.0004 ppm | 0.0004 ppm | 0.0004 ppm |
| Recovery Percentage 1 | -6.761 % | 0.201 % | 1.344 % | 0.878 % | -3.478 % | 2.640 % | 1.817 % |
| Concentration RSD | 144.8 % | 161.0 % | 53.5 % | 29.9 % | 19.8 % | 39.4 % | 86.1 % |

| | 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 | -0.0002 ppm | 98.2742 % | 98.8878 % | 96.9994 % | 97.4582 % | 99.6578 % | 97.7334 % |
| Concentration per Run 1 | -0.0003 ppm | 97.6703 % | 98.4156 % | 97.1130 % | 97.4197 % | 99.5083 % | 97.9034 % |
| Concentration per Run 2 | -0.0002 ppm | 98.6094 % | 99.0512 % | 96.8996 % | 97.4567 % | 99.7339 % | 97.8563 % |
| Concentration per Run 3 | -0.0002 ppm | 98.5431 % | 99.1966 % | 96.9856 % | 97.4983 % | 99.7314 % | 97.4404 % |
| Recovery Percentage 1 | -4.806 % | | | | | | |
| Concentration RSD | 18.3 % | 0.5 % | 0.4 % | 0.1 % | 0.0 % | 0.1 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012229-1 WG2012229
Analysis started at: 12/23/2024 2:50:07 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 | 0.0001 ppm | 0.0012 ppm | -0.0007 ppm | 0.0034 ppm | 0.0006 ppm | 0.0000 ppm | 0.0282 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0013 ppm | -0.0001 ppm | 0.0036 ppm | 0.0006 ppm | 0.0000 ppm | 0.0287 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0004 ppm | -0.0013 ppm | 0.0039 ppm | 0.0005 ppm | 0.0000 ppm | 0.0261 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0045 ppm | -0.0007 ppm | 0.0027 ppm | 0.0006 ppm | 0.0000 ppm | 0.0298 ppm |
| Recovery Percentage 1 | 1.976 % | 1.190 % | -14.271 % | 11.320 % | 5.516 % | -0.091 % | 28.160 % |
| Concentration RSD | 48.9 % | 250.2 % | 86.3 % | 19.4 % | 6.5 % | 116.3 % | 6.8 % |

| | 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 | -0.0001 ppm | 0.0000 ppm | 0.0014 ppm | 0.0000 ppm | 0.0240 ppm | 0.0643 ppm | 0.0006 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0002 ppm | 0.0012 ppm | 0.0000 ppm | 0.0235 ppm | 0.0682 ppm | 0.0013 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0001 ppm | 0.0015 ppm | -0.0001 ppm | 0.0241 ppm | 0.0615 ppm | 0.0002 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0002 ppm | 0.0015 ppm | 0.0001 ppm | 0.0243 ppm | 0.0631 ppm | 0.0004 ppm |
| Recovery Percentage 1 | -1.958 % | -0.367 % | 14.237 % | -0.104 % | 47.929 % | 2.572 % | 6.332 % |
| Concentration RSD | 14.4 % | 597.4 % | 10.7 % | 618.7 % | 1.7 % | 5.5 % | 91.9 % |

| | 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 | 0.0034 ppm | 0.0005 ppm | 0.0001 ppm | 140.8060 ppm | -0.0005 ppm | 0.0003 ppm | 0.0021 ppm |
| Concentration per Run 1 | 0.0043 ppm | 0.0005 ppm | 0.0000 ppm | 140.1729 ppm | -0.0001 ppm | 0.0000 ppm | 0.0035 ppm |
| Concentration per Run 2 | 0.0026 ppm | 0.0005 ppm | 0.0003 ppm | 141.2367 ppm | -0.0008 ppm | 0.0002 ppm | 0.0009 ppm |
| Concentration per Run 3 | 0.0032 ppm | 0.0004 ppm | -0.0001 ppm | 141.0084 ppm | -0.0006 ppm | 0.0006 ppm | 0.0019 ppm |
| Recovery Percentage 1 | 3.368 % | 4.720 % | 0.178 % | 7,040.300 % | -1.963 % | 2.831 % | 4.254 % |
| Concentration RSD | 25.6 % | 7.4 % | 254.8 % | 0.4 % | 69.3 % | 105.9 % | 61.0 % |

| | 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 | 0.0004 ppm | 0.0291 ppm | 0.0012 ppm | 0.0001 ppm | -0.0002 ppm | -0.0018 ppm | 0.0002 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0282 ppm | 0.0010 ppm | 0.0001 ppm | -0.0003 ppm | -0.0021 ppm | 0.0000 ppm |
| Concentration per Run 2 | 0.0021 ppm | 0.0292 ppm | 0.0011 ppm | 0.0001 ppm | -0.0003 ppm | -0.0019 ppm | 0.0003 ppm |
| Concentration per Run 3 | -0.0007 ppm | 0.0300 ppm | 0.0015 ppm | 0.0002 ppm | -0.0002 ppm | -0.0014 ppm | 0.0001 ppm |
| Recovery Percentage 1 | 4.256 % | 5.827 % | 2.431 % | 1.229 % | -2.289 % | -9.118 % | 1.722 % |
| Concentration RSD | 348.7 % | 3.1 % | 23.8 % | 38.2 % | 26.8 % | 20.5 % | 84.6 % |

| | 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 | 101.4786 % | 97.8824 % | 90.0097 % | 92.0386 % | 95.2990 % | 92.6757 % |
| Concentration per Run 1 | -0.0002 ppm | 102.5167 % | 97.9880 % | 90.0279 % | 91.9545 % | 95.3590 % | 92.4512 % |
| Concentration per Run 2 | -0.0004 ppm | 101.4149 % | 97.7604 % | 90.0500 % | 92.0199 % | 94.9221 % | 92.7940 % |
| Concentration per Run 3 | -0.0006 ppm | 100.5043 % | 97.8988 % | 89.9511 % | 92.1413 % | 95.6160 % | 92.7818 % |
| Recovery Percentage 1 | -7.399 % | | | | | | |
| Concentration RSD | 56.4 % | 1.0 % | 0.1 % | 0.1 % | 0.1 % | 0.4 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012229-2 WG2012229
Analysis started at: 12/23/2024 2:54:52 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 | 0.0469 ppm | 1.9308 ppm | 0.1094 ppm | 0.8454 ppm | 1.9007 ppm | 0.0476 ppm | 9.5378 ppm |
| Concentration per Run 1 | 0.0470 ppm | 1.9318 ppm | 0.1109 ppm | 0.8456 ppm | 1.8941 ppm | 0.0476 ppm | 9.5664 ppm |
| Concentration per Run 2 | 0.0468 ppm | 1.9293 ppm | 0.1078 ppm | 0.8499 ppm | 1.9061 ppm | 0.0476 ppm | 9.5180 ppm |
| Concentration per Run 3 | 0.0468 ppm | 1.9313 ppm | 0.1095 ppm | 0.8405 ppm | 1.9019 ppm | 0.0475 ppm | 9.5289 ppm |
| Concentration RSD | 0.2 % | 0.1 % | 1.4 % | 0.6 % | 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 | 0.0476 ppm | 0.4543 ppm | 0.1820 ppm | 0.2364 ppm | 0.9535 ppm | 10.4649 ppm | 0.0017 ppm |
| Concentration per Run 1 | 0.0474 ppm | 0.4535 ppm | 0.1818 ppm | 0.2369 ppm | 0.9497 ppm | 10.3159 ppm | 0.0019 ppm |
| Concentration per Run 2 | 0.0478 ppm | 0.4556 ppm | 0.1821 ppm | 0.2371 ppm | 0.9548 ppm | 10.4960 ppm | 0.0011 ppm |
| Concentration per Run 3 | 0.0475 ppm | 0.4537 ppm | 0.1820 ppm | 0.2353 ppm | 0.9559 ppm | 10.5829 ppm | 0.0022 ppm |
| Concentration RSD | 0.5 % | 0.2 % | 0.1 % | 0.4 % | 0.3 % | 1.3 % | 33.9 % |

| | 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 | 8.8435 ppm | 0.4671 ppm | 0.9820 ppm | 148.3767 ppm | 0.4507 ppm | 0.5067 ppm | 0.4624 ppm |
| Concentration per Run 1 | 8.8247 ppm | 0.4676 ppm | 0.9784 ppm | 147.4947 ppm | 0.4516 ppm | 0.5069 ppm | 0.4637 ppm |
| Concentration per Run 2 | 8.8570 ppm | 0.4669 ppm | 0.9890 ppm | 148.3571 ppm | 0.4525 ppm | 0.5064 ppm | 0.4636 ppm |
| Concentration per Run 3 | 8.8490 ppm | 0.4667 ppm | 0.9785 ppm | 149.2782 ppm | 0.4479 ppm | 0.5069 ppm | 0.4601 ppm |
| Concentration RSD | 0.2 % | 0.1 % | 0.6 % | 0.6 % | 0.5 % | 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 | 0.1105 ppm | 0.7056 ppm | 0.9062 ppm | 0.9728 ppm | 0.9349 ppm | 0.1097 ppm | 0.4838 ppm |
| Concentration per Run 1 | 0.1079 ppm | 0.7054 ppm | 0.9064 ppm | 0.9716 ppm | 0.9351 ppm | 0.1096 ppm | 0.4841 ppm |
| Concentration per Run 2 | 0.1134 ppm | 0.7075 ppm | 0.9132 ppm | 0.9737 ppm | 0.9359 ppm | 0.1101 ppm | 0.4835 ppm |
| Concentration per Run 3 | 0.1102 ppm | 0.7040 ppm | 0.8990 ppm | 0.9732 ppm | 0.9337 ppm | 0.1095 ppm | 0.4838 ppm |
| Concentration RSD | 2.5 % | 0.2 % | 0.8 % | 0.1 % | 0.1 % | 0.3 % | 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 | 0.4588 ppm | 95.4766 % | 97.4461 % | 84.1705 % | 89.5810 % | 95.5647 % | 90.8280 % |
| Concentration per Run 1 | 0.4573 ppm | 95.5442 % | 97.7258 % | 84.3237 % | 89.7056 % | 95.9810 % | 90.9706 % |
| Concentration per Run 2 | 0.4614 ppm | 95.2252 % | 97.4491 % | 84.0682 % | 89.3685 % | 95.8425 % | 90.8469 % |
| Concentration per Run 3 | 0.4578 ppm | 95.6605 % | 97.1633 % | 84.1197 % | 89.6689 % | 94.8704 % | 90.6666 % |
| Concentration RSD | 0.5 % | 0.2 % | 0.3 % | 0.2 % | 0.2 % | 0.6 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473377-01 WG2012229
Analysis started at: 12/23/2024 2:59:19 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 | 0.0002 ppm | 0.0215 ppm | 0.0004 ppm | 0.1350 ppm | 0.0015 ppm | 0.0000 ppm | 0.9010 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0233 ppm | 0.0007 ppm | 0.1344 ppm | 0.0015 ppm | 0.0000 ppm | 0.9006 ppm |
| Concentration per Run 2 | 0.0003 ppm | 0.0187 ppm | 0.0001 ppm | 0.1348 ppm | 0.0014 ppm | 0.0000 ppm | 0.9007 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0223 ppm | 0.0003 ppm | 0.1356 ppm | 0.0015 ppm | 0.0000 ppm | 0.9016 ppm |
| Concentration RSD | 78.1 % | 11.3 % | 90.4 % | 0.5 % | 3.4 % | 115.6 % | 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 | -0.0001 ppm | -0.0004 ppm | 0.0006 ppm | 0.0035 ppm | 0.0958 ppm | 0.1063 ppm | 0.0075 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0002 ppm | 0.0005 ppm | 0.0036 ppm | 0.0959 ppm | 0.1084 ppm | 0.0077 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0004 ppm | 0.0007 ppm | 0.0033 ppm | 0.0950 ppm | 0.1063 ppm | 0.0077 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0006 ppm | 0.0006 ppm | 0.0036 ppm | 0.0966 ppm | 0.1042 ppm | 0.0072 ppm |
| Concentration RSD | 57.8 % | 51.1 % | 13.1 % | 5.0 % | 0.9 % | 2.0 % | 3.5 % |

| | 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 | 0.0660 ppm | 0.0042 ppm | 0.0036 ppm | 148.3314 ppm | 0.0005 ppm | 0.0002 ppm | 0.0015 ppm |
| Concentration per Run 1 | 0.0660 ppm | 0.0042 ppm | 0.0037 ppm | 146.6015 ppm | 0.0006 ppm | -0.0001 ppm | 0.0036 ppm |
| Concentration per Run 2 | 0.0654 ppm | 0.0043 ppm | 0.0038 ppm | 150.5009 ppm | 0.0008 ppm | 0.0004 ppm | 0.0014 ppm |
| Concentration per Run 3 | 0.0665 ppm | 0.0042 ppm | 0.0032 ppm | 147.8917 ppm | 0.0002 ppm | 0.0003 ppm | -0.0005 ppm |
| Concentration RSD | 0.8 % | 1.2 % | 8.8 % | 1.3 % | 52.2 % | 115.3 % | 135.5 % |

| | 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 | 0.0494 ppm | 0.0094 ppm | 0.0008 ppm | 0.0006 ppm | -0.0021 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0006 ppm | 0.0498 ppm | 0.0102 ppm | 0.0008 ppm | 0.0006 ppm | -0.0013 ppm | 0.0001 ppm |
| Concentration per Run 2 | 0.0006 ppm | 0.0504 ppm | 0.0094 ppm | 0.0009 ppm | 0.0007 ppm | -0.0031 ppm | 0.0001 ppm |
| Concentration per Run 3 | 0.0016 ppm | 0.0480 ppm | 0.0084 ppm | 0.0009 ppm | 0.0007 ppm | -0.0018 ppm | 0.0000 ppm |
| Concentration RSD | 222.9 % | 2.6 % | 9.6 % | 2.9 % | 11.7 % | 43.0 % | 80.2 % |

| | 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 | 0.8987 ppm | 96.6424 % | 98.9264 % | 86.4493 % | 90.9073 % | 96.7306 % | 90.8971 % |
| Concentration per Run 1 | 0.9010 ppm | 96.1551 % | 99.2094 % | 85.9768 % | 90.4567 % | 96.8859 % | 90.6882 % |
| Concentration per Run 2 | 0.9016 ppm | 96.9011 % | 99.1488 % | 86.5669 % | 91.3576 % | 97.1117 % | 90.8020 % |
| Concentration per Run 3 | 0.8937 ppm | 96.8709 % | 98.4208 % | 86.8044 % | 90.9077 % | 96.1941 % | 91.2010 % |
| Concentration RSD | 0.5 % | 0.4 % | 0.4 % | 0.5 % | 0.5 % | 0.5 % | 0.3 % |

# iCAP Pro Trace 8 Data report
12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012229-3 WG2012229
Analysis started at: 12/23/2024 3:03:44 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 | 0.0463 ppm | 1.8977 ppm | 0.1079 ppm | 0.9585 ppm | 1.8630 ppm | 0.0461 ppm | 9.8974 ppm |
| Concentration per Run 1 | 0.0462 ppm | 1.8966 ppm | 0.1076 ppm | 0.9630 ppm | 1.8655 ppm | 0.0462 ppm | 9.8895 ppm |
| Concentration per Run 2 | 0.0461 ppm | 1.8848 ppm | 0.1076 ppm | 0.9574 ppm | 1.8558 ppm | 0.0460 ppm | 9.8670 ppm |
| Concentration per Run 3 | 0.0467 ppm | 1.9117 ppm | 0.1085 ppm | 0.9550 ppm | 1.8677 ppm | 0.0461 ppm | 9.9357 ppm |
| Concentration RSD | 0.6 % | 0.7 % | 0.5 % | 0.4 % | 0.3 % | 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 | 0.0457 ppm | 0.4391 ppm | 0.1760 ppm | 0.2345 ppm | 0.9563 ppm | 10.6903 ppm | 0.0072 ppm |
| Concentration per Run 1 | 0.0457 ppm | 0.4403 ppm | 0.1770 ppm | 0.2355 ppm | 0.9583 ppm | 10.6695 ppm | 0.0071 ppm |
| Concentration per Run 2 | 0.0456 ppm | 0.4376 ppm | 0.1754 ppm | 0.2346 ppm | 0.9550 ppm | 10.6632 ppm | 0.0070 ppm |
| Concentration per Run 3 | 0.0458 ppm | 0.4395 ppm | 0.1757 ppm | 0.2335 ppm | 0.9556 ppm | 10.7382 ppm | 0.0074 ppm |
| Concentration RSD | 0.3 % | 0.3 % | 0.5 % | 0.4 % | 0.2 % | 0.4 % | 2.6 % |

| | 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 | 8.6038 ppm | 0.4524 ppm | 0.9540 ppm | 150.4727 ppm | 0.4362 ppm | 0.4954 ppm | 0.4607 ppm |
| Concentration per Run 1 | 8.6283 ppm | 0.4513 ppm | 0.9509 ppm | 149.4612 ppm | 0.4372 ppm | 0.4951 ppm | 0.4598 ppm |
| Concentration per Run 2 | 8.6010 ppm | 0.4528 ppm | 0.9515 ppm | 150.3177 ppm | 0.4346 ppm | 0.4941 ppm | 0.4600 ppm |
| Concentration per Run 3 | 8.5821 ppm | 0.4529 ppm | 0.9597 ppm | 151.6392 ppm | 0.4367 ppm | 0.4969 ppm | 0.4623 ppm |
| Concentration RSD | 0.3 % | 0.2 % | 0.5 % | 0.7 % | 0.3 % | 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 | 0.1083 ppm | 0.7004 ppm | 0.8768 ppm | 0.9539 ppm | 0.9101 ppm | 0.1075 ppm | 0.4687 ppm |
| Concentration per Run 1 | 0.1074 ppm | 0.7014 ppm | 0.8822 ppm | 0.9560 ppm | 0.9125 ppm | 0.1075 ppm | 0.4706 ppm |
| Concentration per Run 2 | 0.1109 ppm | 0.7015 ppm | 0.8712 ppm | 0.9511 ppm | 0.9091 ppm | 0.1065 ppm | 0.4681 ppm |
| Concentration per Run 3 | 0.1066 ppm | 0.6983 ppm | 0.8769 ppm | 0.9547 ppm | 0.9088 ppm | 0.1085 ppm | 0.4675 ppm |
| Concentration RSD | 2.1 % | 0.3 % | 0.6 % | 0.3 % | 0.2 % | 0.9 % | 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 | 1.2815 ppm | 96.0022 % | 98.8682 % | 83.6857 % | 90.3122 % | 96.9672 % | 90.5079 % |
| Concentration per Run 1 | 1.2858 ppm | 95.5005 % | 98.9540 % | 83.3673 % | 90.1413 % | 97.0442 % | 90.3918 % |
| Concentration per Run 2 | 1.2773 ppm | 95.9832 % | 99.3459 % | 83.8465 % | 90.1266 % | 97.2037 % | 90.4478 % |
| Concentration per Run 3 | 1.2814 ppm | 96.5228 % | 98.3046 % | 83.8432 % | 90.6687 % | 96.6536 % | 90.6842 % |
| Concentration RSD | 0.3 % | 0.5 % | 0.5 % | 0.3 % | 0.3 % | 0.3 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012229-4 WG2012229
Analysis started at: 12/23/2024 3:08:10 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 | 0.0000 ppm | 0.0005 ppm | -0.0011 ppm | 0.1341 ppm | 0.0011 ppm | 0.0000 ppm | 0.7532 ppm |
| Concentration per Run 1 | -0.0002 ppm | -0.0023 ppm | -0.0012 ppm | 0.1371 ppm | 0.0011 ppm | 0.0000 ppm | 0.7488 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0010 ppm | -0.0010 ppm | 0.1327 ppm | 0.0010 ppm | 0.0000 ppm | 0.7535 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0028 ppm | -0.0010 ppm | 0.1326 ppm | 0.0011 ppm | 0.0000 ppm | 0.7573 ppm |
| Concentration RSD | 407.3 % | 517.1 % | 9.1 % | 1.9 % | 2.3 % | 133.3 % | 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 | -0.0002 ppm | 0.0003 ppm | 0.0005 ppm | 0.0454 ppm | 0.0951 ppm | 0.0071 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0002 ppm | 0.0003 ppm | 0.0003 ppm | 0.0465 ppm | 0.0927 ppm | 0.0069 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | 0.0004 ppm | 0.0007 ppm | 0.0443 ppm | 0.0963 ppm | 0.0071 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0003 ppm | 0.0004 ppm | 0.0005 ppm | 0.0454 ppm | 0.0962 ppm | 0.0074 ppm |
| Concentration RSD | 127.5 % | 77.8 % | 18.9 % | 36.1 % | 2.4 % | 2.2 % | 3.6 % |

| | 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 | 0.0235 ppm | 0.0021 ppm | 0.0038 ppm | 143.6505 ppm | -0.0002 ppm | 0.0002 ppm | 0.0025 ppm |
| Concentration per Run 1 | 0.0236 ppm | 0.0021 ppm | 0.0037 ppm | 142.9910 ppm | -0.0001 ppm | 0.0001 ppm | 0.0015 ppm |
| Concentration per Run 2 | 0.0237 ppm | 0.0022 ppm | 0.0034 ppm | 144.6640 ppm | 0.0001 ppm | 0.0006 ppm | 0.0034 ppm |
| Concentration per Run 3 | 0.0231 ppm | 0.0020 ppm | 0.0042 ppm | 143.2966 ppm | -0.0005 ppm | -0.0002 ppm | 0.0025 ppm |
| Concentration RSD | 1.4 % | 5.5 % | 10.3 % | 0.6 % | 192.8 % | 222.6 % | 40.6 % |

| | 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 | 0.0005 ppm | 0.0340 ppm | 0.0017 ppm | 0.0007 ppm | -0.0001 ppm | -0.0014 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0010 ppm | 0.0349 ppm | 0.0016 ppm | 0.0007 ppm | -0.0001 ppm | -0.0008 ppm | 0.0000 ppm |
| Concentration per Run 2 | 0.0004 ppm | 0.0321 ppm | 0.0021 ppm | 0.0006 ppm | -0.0001 ppm | -0.0017 ppm | 0.0003 ppm |
| Concentration per Run 3 | 0.0023 ppm | 0.0349 ppm | 0.0016 ppm | 0.0007 ppm | 0.0001 ppm | -0.0016 ppm | 0.0001 ppm |
| Concentration RSD | 302.2 % | 4.8 % | 17.4 % | 6.9 % | 189.4 % | 38.6 % | 118.7 % |

| | 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 | 0.8631 ppm | 96.9254 % | 99.7607 % | 86.7973 % | 91.5498 % | 97.5137 % | 91.3289 % |
| Concentration per Run 1 | 0.8673 ppm | 96.4826 % | 99.8509 % | 86.8882 % | 91.0748 % | 97.3105 % | 91.3770 % |
| Concentration per Run 2 | 0.8640 ppm | 96.9082 % | 99.9987 % | 86.7212 % | 91.7536 % | 97.8559 % | 91.3723 % |
| Concentration per Run 3 | 0.8579 ppm | 97.3853 % | 99.4326 % | 86.7825 % | 91.8211 % | 97.3747 % | 91.2374 % |
| Concentration RSD | 0.6 % | 0.5 % | 0.3 % | 0.1 % | 0.5 % | 0.3 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 3:22:54 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 | 0.4859 ppm | 0.4883 ppm | 0.4621 ppm | 0.4500 ppm | 0.5025 ppm | 0.4922 ppm | 0.4839 ppm |
| Concentration per Run 1 | 0.4882 ppm | 0.4931 ppm | 0.4600 ppm | 0.4500 ppm | 0.5050 ppm | 0.4910 ppm | 0.4801 ppm |
| Concentration per Run 2 | 0.4856 ppm | 0.4896 ppm | 0.4650 ppm | 0.4508 ppm | 0.4997 ppm | 0.4926 ppm | 0.4873 ppm |
| Concentration per Run 3 | 0.4838 ppm | 0.4823 ppm | 0.4615 ppm | 0.4493 ppm | 0.5028 ppm | 0.4931 ppm | 0.4845 ppm |
| Recovery Percentage 1 | 97.174 % | 97.668 % | 92.427 % | 90.000 % | 100.499 % | 98.445 % | 96.790 % |
| Concentration RSD | 0.5 % | 1.1 % | 0.6 % | 0.2 % | 0.5 % | 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 | 0.4769 ppm | 0.4964 ppm | 0.4792 ppm | 0.4850 ppm | 0.4883 ppm | 5.3644 ppm | 0.5212 ppm |
| Concentration per Run 1 | 0.4785 ppm | 0.4984 ppm | 0.4838 ppm | 0.4863 ppm | 0.4878 ppm | 5.4119 ppm | 0.5256 ppm |
| Concentration per Run 2 | 0.4775 ppm | 0.4967 ppm | 0.4780 ppm | 0.4848 ppm | 0.4869 ppm | 5.2893 ppm | 0.5149 ppm |
| Concentration per Run 3 | 0.4747 ppm | 0.4943 ppm | 0.4759 ppm | 0.4840 ppm | 0.4901 ppm | 5.3922 ppm | 0.5231 ppm |
| Recovery Percentage 1 | 95.376 % | 99.287 % | 95.845 % | 97.007 % | 97.658 % | 107.289 % | 104.245 % |
| Concentration RSD | 0.4 % | 0.4 % | 0.9 % | 0.2 % | 0.3 % | 1.2 % | 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 | 0.4846 ppm | 0.4786 ppm | 0.4820 ppm | 10.3971 ppm | 0.4923 ppm | 0.4839 ppm | 0.4902 ppm |
| Concentration per Run 1 | 0.4866 ppm | 0.4765 ppm | 0.4814 ppm | 10.5223 ppm | 0.4952 ppm | 0.4837 ppm | 0.4918 ppm |
| Concentration per Run 2 | 0.4871 ppm | 0.4806 ppm | 0.4805 ppm | 10.3245 ppm | 0.4935 ppm | 0.4860 ppm | 0.4870 ppm |
| Concentration per Run 3 | 0.4802 ppm | 0.4788 ppm | 0.4840 ppm | 10.3443 ppm | 0.4882 ppm | 0.4822 ppm | 0.4918 ppm |
| Recovery Percentage 1 | 96.927 % | 95.728 % | 96.395 % | 103.971 % | 98.464 % | 96.789 % | 98.035 % |
| Concentration RSD | 0.8 % | 0.4 % | 0.4 % | 1.0 % | 0.7 % | 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 | 0.4744 ppm | 5.1589 ppm | 0.5033 ppm | 0.5344 ppm | 0.4782 ppm | 0.4860 ppm | 0.4911 ppm |
| Concentration per Run 1 | 0.4718 ppm | 5.1780 ppm | 0.5089 ppm | 0.5353 ppm | 0.4794 ppm | 0.4857 ppm | 0.4928 ppm |
| Concentration per Run 2 | 0.4761 ppm | 5.1504 ppm | 0.5005 ppm | 0.5319 ppm | 0.4782 ppm | 0.4874 ppm | 0.4914 ppm |
| Concentration per Run 3 | 0.4753 ppm | 5.1483 ppm | 0.5004 ppm | 0.5360 ppm | 0.4770 ppm | 0.4848 ppm | 0.4890 ppm |
| Recovery Percentage 1 | 94.876 % | 98.265 % | 100.654 % | 106.876 % | 95.640 % | 97.195 % | 98.214 % |
| Concentration RSD | 0.5 % | 0.3 % | 1.0 % | 0.4 % | 0.2 % | 0.3 % | 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 | 0.4782 ppm | 100.0527 % | 100.0370 % | 95.4957 % | 95.8690 % | 98.7221 % | 96.1386 % |
| Concentration per Run 1 | 0.4829 ppm | 99.6525 % | 100.6588 % | 95.5488 % | 95.8972 % | 98.9001 % | 96.2685 % |
| Concentration per Run 2 | 0.4777 ppm | 100.2834 % | 99.8625 % | 95.4608 % | 96.1958 % | 99.0921 % | 96.2325 % |
| Concentration per Run 3 | 0.4740 ppm | 100.2223 % | 99.5897 % | 95.4775 % | 95.5140 % | 98.1740 % | 95.9146 % |
| Recovery Percentage 1 | 95.643 % | | | | | | |
| Concentration RSD | 0.9 % | 0.3 % | 0.6 % | 0.0 % | 0.4 % | 0.5 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 3:27:26 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 | -0.0001 ppm | 0.0001 ppm | -0.0017 ppm | 0.0009 ppm | 0.0000 ppm | 0.0000 ppm | 0.0005 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0002 ppm | -0.0017 ppm | 0.0007 ppm | 0.0000 ppm | 0.0000 ppm | -0.0011 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0032 ppm | -0.0015 ppm | 0.0011 ppm | 0.0000 ppm | 0.0000 ppm | 0.0031 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0032 ppm | -0.0019 ppm | 0.0010 ppm | 0.0001 ppm | 0.0000 ppm | -0.0003 ppm |
| Recovery Percentage 1 | -1.790 % | 0.058 % | -33.572 % | 3.102 % | 0.360 % | 0.634 % | 0.537 % |
| Concentration RSD | 52.7 % | 5,490.9 % | 12.2 % | 20.3 % | 62.5 % | 33.8 % | 416.8 % |

| | 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 | 0.0000 ppm | 0.0000 ppm | -0.0003 ppm | 0.0003 ppm | 0.0243 ppm | -0.0003 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0000 ppm | 0.0000 ppm | -0.0001 ppm | -0.0007 ppm | 0.0277 ppm | -0.0003 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | -0.0001 ppm | -0.0004 ppm | 0.0012 ppm | 0.0302 ppm | -0.0005 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0001 ppm | -0.0001 ppm | -0.0002 ppm | 0.0003 ppm | 0.0150 ppm | -0.0002 ppm |
| Recovery Percentage 1 | -0.616 % | -0.320 % | -0.488 % | -2.527 % | 0.523 % | 0.971 % | -3.326 % |
| Concentration RSD | 57.7 % | 135.6 % | 113.3 % | 46.6 % | 348.3 % | 33.5 % | 48.9 % |

| | 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 | -0.0006 ppm | 0.0001 ppm | 0.0021 ppm | 0.0282 ppm | 0.0002 ppm | -0.0003 ppm | 0.0013 ppm |
| Concentration per Run 1 | -0.0005 ppm | 0.0001 ppm | 0.0020 ppm | 0.0282 ppm | 0.0003 ppm | -0.0001 ppm | 0.0006 ppm |
| Concentration per Run 2 | -0.0014 ppm | 0.0002 ppm | 0.0019 ppm | 0.0277 ppm | 0.0000 ppm | -0.0006 ppm | 0.0012 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0001 ppm | 0.0026 ppm | 0.0286 ppm | 0.0002 ppm | -0.0003 ppm | 0.0021 ppm |
| Recovery Percentage 1 | -0.646 % | 1.219 % | 4.259 % | 1.408 % | 0.675 % | -3.457 % | 2.504 % |
| Concentration RSD | 111.7 % | 47.1 % | 17.4 % | 1.8 % | 94.4 % | 65.5 % | 60.4 % |

| | 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 | -0.0009 ppm | 0.0006 ppm | 0.0002 ppm | 0.0001 ppm | -0.0003 ppm | 0.0001 ppm | 0.0000 ppm |
| Concentration per Run 1 | -0.0010 ppm | 0.0008 ppm | 0.0006 ppm | 0.0001 ppm | -0.0002 ppm | -0.0002 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0005 ppm | 0.0006 ppm | 0.0001 ppm | 0.0001 ppm | -0.0002 ppm | 0.0004 ppm | 0.0000 ppm |
| Concentration per Run 3 | -0.0010 ppm | 0.0005 ppm | 0.0000 ppm | 0.0001 ppm | -0.0005 ppm | 0.0003 ppm | -0.0001 ppm |
| Recovery Percentage 1 | -8.569 % | 0.128 % | 0.416 % | 0.699 % | -3.144 % | 0.737 % | 0.109 % |
| Concentration RSD | 31.7 % | 19.6 % | 155.0 % | 16.3 % | 54.8 % | 224.7 % | 979.1 % |

| | 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 | -0.0002 ppm | 96.9996 % | 98.1969 % | 96.4299 % | 97.7441 % | 99.0853 % | 97.6764 % |
| Concentration per Run 1 | -0.0002 ppm | 96.1984 % | 98.0646 % | 96.3351 % | 97.4867 % | 98.9890 % | 97.8655 % |
| Concentration per Run 2 | -0.0002 ppm | 97.2371 % | 98.2094 % | 96.3196 % | 97.8654 % | 98.8567 % | 97.6769 % |
| Concentration per Run 3 | -0.0004 ppm | 97.5632 % | 98.3168 % | 96.6351 % | 97.8803 % | 99.4104 % | 97.4868 % |
| Recovery Percentage 1 | -4.681 % | | | | | | |
| Concentration RSD | 43.8 % | 0.7 % | 0.1 % | 0.2 % | 0.2 % | 0.3 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012426-1 WG2012426
Analysis started at: 12/23/2024 3:35:32 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 | 0.0022 ppm | -0.0011 ppm | 0.0010 ppm | 0.0001 ppm | 0.0000 ppm | 0.0221 ppm |
| Concentration per Run 1 | -0.0003 ppm | 0.0054 ppm | -0.0007 ppm | 0.0019 ppm | 0.0001 ppm | 0.0000 ppm | 0.0231 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0010 ppm | -0.0010 ppm | 0.0012 ppm | 0.0002 ppm | 0.0000 ppm | 0.0216 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0003 ppm | -0.0016 ppm | -0.0001 ppm | 0.0001 ppm | 0.0000 ppm | 0.0217 ppm |
| Recovery Percentage 1 | -2.913 % | 2.240 % | -22.484 % | 3.324 % | 1.377 % | -0.299 % | 22.138 % |
| Concentration RSD | 72.7 % | 123.3 % | 42.5 % | 103.6 % | 9.5 % | 152.3 % | 3.8 % |

| | 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 | 0.0000 ppm | 0.0006 ppm | 0.0000 ppm | 0.0102 ppm | 0.0126 ppm | -0.0003 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0002 ppm | 0.0004 ppm | 0.0000 ppm | 0.0095 ppm | 0.0167 ppm | 0.0002 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0002 ppm | 0.0006 ppm | 0.0001 ppm | 0.0106 ppm | 0.0150 ppm | -0.0004 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0002 ppm | 0.0007 ppm | -0.0002 ppm | 0.0105 ppm | 0.0061 ppm | -0.0007 ppm |
| Recovery Percentage 1 | 0.306 % | -0.335 % | 5.529 % | -0.421 % | 20.479 % | 0.505 % | -3.000 % |
| Concentration RSD | 351.5 % | 624.6 % | 32.3 % | 400.8 % | 5.9 % | 45.1 % | 145.4 % |

| | 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 | 0.0020 ppm | 0.0002 ppm | -0.0001 ppm | 0.0186 ppm | 0.0010 ppm | -0.0004 ppm | 0.0012 ppm |
| Concentration per Run 1 | 0.0023 ppm | 0.0001 ppm | -0.0002 ppm | 0.0170 ppm | 0.0011 ppm | -0.0003 ppm | 0.0006 ppm |
| Concentration per Run 2 | 0.0009 ppm | 0.0002 ppm | -0.0001 ppm | 0.0193 ppm | 0.0013 ppm | -0.0008 ppm | 0.0010 ppm |
| Concentration per Run 3 | 0.0027 ppm | 0.0001 ppm | 0.0000 ppm | 0.0194 ppm | 0.0007 ppm | -0.0002 ppm | 0.0019 ppm |
| Recovery Percentage 1 | 1.999 % | 1.735 % | -0.189 % | 0.928 % | 4.054 % | -4.158 % | 2.394 % |
| Concentration RSD | 46.6 % | 38.0 % | 86.1 % | 7.1 % | 31.2 % | 74.9 % | 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 | -0.0010 ppm | 0.0016 ppm | 0.0003 ppm | 0.0001 ppm | -0.0003 ppm | 0.0010 ppm | 0.0000 ppm |
| Concentration per Run 1 | -0.0012 ppm | 0.0023 ppm | 0.0007 ppm | 0.0001 ppm | -0.0003 ppm | 0.0010 ppm | -0.0001 ppm |
| Concentration per Run 2 | -0.0022 ppm | 0.0017 ppm | 0.0001 ppm | 0.0001 ppm | -0.0004 ppm | 0.0008 ppm | 0.0000 ppm |
| Concentration per Run 3 | 0.0005 ppm | 0.0007 ppm | 0.0000 ppm | 0.0001 ppm | -0.0003 ppm | 0.0014 ppm | 0.0000 ppm |
| Recovery Percentage 1 | -9.826 % | 0.312 % | 0.534 % | 0.802 % | -3.395 % | 5.216 % | 0.020 % |
| Concentration RSD | 139.6 % | 53.3 % | 133.0 % | 30.7 % | 19.3 % | 28.4 % | 3,552.5 % |

| | 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 | 0.0012 ppm | 93.9966 % | 96.8751 % | 95.1198 % | 98.9129 % | 101.0987 % | 98.7959 % |
| Concentration per Run 1 | 0.0011 ppm | 93.2967 % | 95.9939 % | 94.8826 % | 98.8305 % | 100.6337 % | 99.1325 % |
| Concentration per Run 2 | 0.0013 ppm | 94.2426 % | 97.2305 % | 94.6512 % | 99.4088 % | 101.6111 % | 98.4063 % |
| Concentration per Run 3 | 0.0012 ppm | 94.4504 % | 97.4008 % | 95.8256 % | 98.4993 % | 101.0513 % | 98.8490 % |
| Recovery Percentage 1 | 24.143 % | | | | | | |
| Concentration RSD | 9.7 % | 0.7 % | 0.8 % | 0.7 % | 0.5 % | 0.5 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012426-2 WG2012426
Analysis started at: 12/23/2024 3:40:04 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 | 0.0534 ppm | 2.2362 ppm | 0.1149 ppm | 0.9256 ppm | 2.1187 ppm | 0.0507 ppm | 9.9433 ppm |
| Concentration per Run 1 | 0.0541 ppm | 2.2535 ppm | 0.1148 ppm | 0.9260 ppm | 2.1221 ppm | 0.0507 ppm | 9.9711 ppm |
| Concentration per Run 2 | 0.0533 ppm | 2.2217 ppm | 0.1143 ppm | 0.9270 ppm | 2.1097 ppm | 0.0509 ppm | 10.0027 ppm |
| Concentration per Run 3 | 0.0529 ppm | 2.2335 ppm | 0.1155 ppm | 0.9238 ppm | 2.1243 ppm | 0.0505 ppm | 9.8560 ppm |
| Concentration RSD | 1.1 % | 0.7 % | 0.5 % | 0.2 % | 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 | 0.0540 ppm | 0.5240 ppm | 0.2074 ppm | 0.2691 ppm | 1.0102 ppm | 11.1030 ppm | -0.0002 ppm |
| Concentration per Run 1 | 0.0545 ppm | 0.5295 ppm | 0.2098 ppm | 0.2698 ppm | 1.0067 ppm | 10.9318 ppm | -0.0003 ppm |
| Concentration per Run 2 | 0.0540 ppm | 0.5224 ppm | 0.2071 ppm | 0.2681 ppm | 1.0133 ppm | 11.0532 ppm | -0.0004 ppm |
| Concentration per Run 3 | 0.0535 ppm | 0.5201 ppm | 0.2051 ppm | 0.2694 ppm | 1.0108 ppm | 11.3239 ppm | 0.0001 ppm |
| Concentration RSD | 0.9 % | 0.9 % | 1.1 % | 0.3 % | 0.3 % | 1.8 % | 143.8 % |

| | 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 | 10.2874 ppm | 0.4993 ppm | 0.8948 ppm | 11.0618 ppm | 0.5095 ppm | 0.5522 ppm | 0.4249 ppm |
| Concentration per Run 1 | 10.3971 ppm | 0.5003 ppm | 0.8949 ppm | 11.0421 ppm | 0.5157 ppm | 0.5536 ppm | 0.4215 ppm |
| Concentration per Run 2 | 10.2770 ppm | 0.5013 ppm | 0.8902 ppm | 10.9928 ppm | 0.5083 ppm | 0.5513 ppm | 0.4236 ppm |
| Concentration per Run 3 | 10.1880 ppm | 0.4962 ppm | 0.8994 ppm | 11.1505 ppm | 0.5046 ppm | 0.5517 ppm | 0.4296 ppm |
| Concentration RSD | 1.0 % | 0.5 % | 0.5 % | 0.7 % | 1.1 % | 0.2 % | 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 | 0.1190 ppm | 1.0251 ppm | 0.9903 ppm | 1.0393 ppm | 1.0073 ppm | 0.1266 ppm | 0.5411 ppm |
| Concentration per Run 1 | 0.1200 ppm | 1.0303 ppm | 0.9918 ppm | 1.0393 ppm | 1.0170 ppm | 0.1260 ppm | 0.5458 ppm |
| Concentration per Run 2 | 0.1193 ppm | 1.0229 ppm | 0.9906 ppm | 1.0353 ppm | 1.0071 ppm | 0.1273 ppm | 0.5410 ppm |
| Concentration per Run 3 | 0.1177 ppm | 1.0222 ppm | 0.9884 ppm | 1.0435 ppm | 0.9978 ppm | 0.1266 ppm | 0.5365 ppm |
| Concentration RSD | 1.0 % | 0.4 % | 0.2 % | 0.4 % | 1.0 % | 0.5 % | 0.9 % |

| | 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 | 0.5024 ppm | 95.2378 % | 99.4214 % | 89.8585 % | 95.5169 % | 99.9197 % | 95.2083 % |
| Concentration per Run 1 | 0.5089 ppm | 94.7261 % | 99.4592 % | 89.3601 % | 95.5481 % | 100.5132 % | 95.2983 % |
| Concentration per Run 2 | 0.5028 ppm | 95.0051 % | 98.6311 % | 89.9204 % | 95.3131 % | 98.9075 % | 95.1463 % |
| Concentration per Run 3 | 0.4955 ppm | 95.9823 % | 100.1740 % | 90.2951 % | 95.6894 % | 100.3384 % | 95.1802 % |
| Concentration RSD | 1.3 % | 0.7 % | 0.8 % | 0.5 % | 0.2 % | 0.9 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473927-02 WG2012426
Analysis started at: 12/23/2024 3:44:29 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 | -0.0001 ppm | 0.0033 ppm | 0.0000 ppm | 0.0350 ppm | 0.2679 ppm | 0.0000 ppm | 44.5024 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0034 ppm | -0.0003 ppm | 0.0355 ppm | 0.2683 ppm | 0.0000 ppm | 44.4791 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0044 ppm | 0.0010 ppm | 0.0345 ppm | 0.2683 ppm | 0.0000 ppm | 44.4759 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0022 ppm | -0.0006 ppm | 0.0349 ppm | 0.2672 ppm | 0.0000 ppm | 44.5521 ppm |
| Concentration RSD | 191.1 % | 32.9 % | 12,092.3 % | 1.5 % | 0.2 % | 687.3 % | 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 | -0.0002 ppm | -0.0001 ppm | 0.0044 ppm | 0.0252 ppm | 0.0431 ppm | 1.4895 ppm | 0.0167 ppm |
| Concentration per Run 1 | -0.0003 ppm | 0.0004 ppm | 0.0045 ppm | 0.0253 ppm | 0.0431 ppm | 1.4849 ppm | 0.0176 ppm |
| Concentration per Run 2 | -0.0003 ppm | -0.0004 ppm | 0.0043 ppm | 0.0251 ppm | 0.0427 ppm | 1.4981 ppm | 0.0159 ppm |
| Concentration per Run 3 | -0.0002 ppm | -0.0003 ppm | 0.0043 ppm | 0.0254 ppm | 0.0434 ppm | 1.4856 ppm | 0.0165 ppm |
| Concentration RSD | 28.1 % | 318.9 % | 3.2 % | 0.5 % | 0.8 % | 0.5 % | 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 | 5.5135 ppm | 0.0006 ppm | 0.0066 ppm | 12.9048 ppm | 0.0005 ppm | 0.0007 ppm | 0.0033 ppm |
| Concentration per Run 1 | 5.5669 ppm | 0.0006 ppm | 0.0066 ppm | 12.7966 ppm | 0.0005 ppm | 0.0010 ppm | 0.0041 ppm |
| Concentration per Run 2 | 5.5092 ppm | 0.0005 ppm | 0.0066 ppm | 12.9327 ppm | 0.0008 ppm | 0.0010 ppm | 0.0036 ppm |
| Concentration per Run 3 | 5.4642 ppm | 0.0006 ppm | 0.0066 ppm | 12.9850 ppm | 0.0001 ppm | 0.0002 ppm | 0.0023 ppm |
| Concentration RSD | 0.9 % | 3.7 % | 0.5 % | 0.8 % | 67.8 % | 63.9 % | 28.3 % |

| | 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 | 5.2085 ppm | 0.0023 ppm | 0.7384 ppm | -0.0001 ppm | 0.0006 ppm | 0.0004 ppm |
| Concentration per Run 1 | -0.0016 ppm | 5.2392 ppm | 0.0021 ppm | 0.7403 ppm | 0.0001 ppm | 0.0005 ppm | 0.0004 ppm |
| Concentration per Run 2 | -0.0007 ppm | 5.2161 ppm | 0.0024 ppm | 0.7375 ppm | -0.0001 ppm | 0.0006 ppm | 0.0004 ppm |
| Concentration per Run 3 | -0.0004 ppm | 5.1702 ppm | 0.0023 ppm | 0.7374 ppm | -0.0003 ppm | 0.0008 ppm | 0.0003 ppm |
| Concentration RSD | 68.1 % | 0.7 % | 7.9 % | 0.2 % | 303.6 % | 23.9 % | 19.3 % |

| | 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 | 0.0103 ppm | 91.7881 % | 96.2122 % | 87.9596 % | 94.5270 % | 99.3794 % | 94.1099 % |
| Concentration per Run 1 | 0.0103 ppm | 91.3578 % | 96.2171 % | 87.3126 % | 94.3445 % | 99.6858 % | 93.9143 % |
| Concentration per Run 2 | 0.0106 ppm | 91.9576 % | 96.3545 % | 88.2086 % | 95.0150 % | 99.6000 % | 94.3046 % |
| Concentration per Run 3 | 0.0101 ppm | 92.0488 % | 96.0650 % | 88.3576 % | 94.2215 % | 98.8525 % | 94.1107 % |
| Concentration RSD | 2.3 % | 0.4 % | 0.2 % | 0.6 % | 0.5 % | 0.5 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473927-01 WG2012426
Analysis started at: 12/23/2024 3:51:56 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 | 0.0000 ppm | 0.0027 ppm | 0.0013 ppm | 0.0599 ppm | 0.3662 ppm | 0.0000 ppm | 36.3776 ppm |
| Concentration per Run 1 | 0.0002 ppm | -0.0003 ppm | 0.0023 ppm | 0.0601 ppm | 0.3659 ppm | 0.0000 ppm | 36.4520 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0014 ppm | 0.0000 ppm | 0.0594 ppm | 0.3641 ppm | 0.0000 ppm | 36.3303 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0070 ppm | 0.0016 ppm | 0.0602 ppm | 0.3686 ppm | 0.0000 ppm | 36.3506 ppm |
| Concentration RSD | 487.5 % | 138.8 % | 88.7 % | 0.7 % | 0.6 % | 2,317.7 % | 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 | -0.0003 ppm | -0.0003 ppm | 0.0002 ppm | 0.0069 ppm | 0.2479 ppm | 1.9096 ppm | 0.0359 ppm |
| Concentration per Run 1 | -0.0003 ppm | -0.0004 ppm | 0.0001 ppm | 0.0068 ppm | 0.2466 ppm | 1.9242 ppm | 0.0358 ppm |
| Concentration per Run 2 | -0.0002 ppm | -0.0004 ppm | 0.0001 ppm | 0.0070 ppm | 0.2496 ppm | 1.8896 ppm | 0.0360 ppm |
| Concentration per Run 3 | -0.0004 ppm | -0.0003 ppm | 0.0003 ppm | 0.0068 ppm | 0.2474 ppm | 1.9151 ppm | 0.0358 ppm |
| Concentration RSD | 23.0 % | 22.8 % | 39.1 % | 1.6 % | 0.6 % | 0.9 % | 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 | 4.7981 ppm | 0.0022 ppm | 0.0024 ppm | 30.9626 ppm | 0.0000 ppm | 0.0003 ppm | 0.0039 ppm |
| Concentration per Run 1 | 4.8067 ppm | 0.0022 ppm | 0.0027 ppm | 31.0013 ppm | 0.0001 ppm | 0.0001 ppm | 0.0023 ppm |
| Concentration per Run 2 | 4.7945 ppm | 0.0022 ppm | 0.0021 ppm | 30.7780 ppm | 0.0001 ppm | -0.0004 ppm | 0.0046 ppm |
| Concentration per Run 3 | 4.7930 ppm | 0.0021 ppm | 0.0025 ppm | 31.1086 ppm | -0.0003 ppm | 0.0011 ppm | 0.0047 ppm |
| Concentration RSD | 0.2 % | 1.1 % | 13.9 % | 0.5 % | 484.7 % | 284.7 % | 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 | -0.0005 ppm | 4.8135 ppm | 0.0004 ppm | 1.0630 ppm | -0.0003 ppm | 0.0004 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0002 ppm | 4.7995 ppm | 0.0002 ppm | 1.0616 ppm | -0.0002 ppm | 0.0001 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0012 ppm | 4.8301 ppm | 0.0007 ppm | 1.0576 ppm | -0.0003 ppm | 0.0003 ppm | 0.0002 ppm |
| Concentration per Run 3 | -0.0006 ppm | 4.8111 ppm | 0.0004 ppm | 1.0699 ppm | -0.0003 ppm | 0.0008 ppm | 0.0001 ppm |
| Concentration RSD | 133.3 % | 0.3 % | 50.7 % | 0.6 % | 23.1 % | 95.7 % | 30.8 % |

| | 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 | 0.0055 ppm | 102.4974 % | 100.1082 % | 97.2957 % | 95.0648 % | 97.9341 % | 94.7530 % |
| Concentration per Run 1 | 0.0056 ppm | 102.4582 % | 99.8052 % | 97.1741 % | 94.8011 % | 97.5559 % | 94.7559 % |
| Concentration per Run 2 | 0.0054 ppm | 102.4952 % | 100.1331 % | 97.5587 % | 94.9751 % | 98.0492 % | 94.7622 % |
| Concentration per Run 3 | 0.0055 ppm | 102.5389 % | 100.3863 % | 97.1543 % | 95.4180 % | 98.1972 % | 94.7410 % |
| Concentration RSD | 1.7 % | 0.0 % | 0.3 % | 0.2 % | 0.3 % | 0.3 % | 0.0 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473738-01 WG2012426
Analysis started at: 12/23/2024 3:56:43 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 | 0.0000 ppm | 0.0037 ppm | 0.0000 ppm | 0.0455 ppm | 0.0141 ppm | 0.0000 ppm | 39.0488 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0034 ppm | -0.0001 ppm | 0.0459 ppm | 0.0142 ppm | 0.0000 ppm | 39.1461 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0025 ppm | 0.0010 ppm | 0.0456 ppm | 0.0142 ppm | 0.0000 ppm | 38.8997 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0054 ppm | -0.0009 ppm | 0.0451 ppm | 0.0140 ppm | 0.0000 ppm | 39.1005 ppm |
| Concentration RSD | 589.7 % | 39.7 % | 7,794.0 % | 0.9 % | 0.7 % | 245.8 % | 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 | -0.0003 ppm | 0.0001 ppm | 0.0001 ppm | 0.0066 ppm | 0.0411 ppm | 5.1584 ppm | 0.0022 ppm |
| Concentration per Run 1 | -0.0003 ppm | 0.0000 ppm | 0.0003 ppm | 0.0070 ppm | 0.0409 ppm | 5.1610 ppm | 0.0023 ppm |
| Concentration per Run 2 | -0.0002 ppm | -0.0001 ppm | 0.0000 ppm | 0.0064 ppm | 0.0409 ppm | 5.1815 ppm | 0.0026 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0003 ppm | 0.0000 ppm | 0.0065 ppm | 0.0414 ppm | 5.1327 ppm | 0.0018 ppm |
| Concentration RSD | 25.1 % | 392.6 % | 160.0 % | 4.7 % | 0.7 % | 0.5 % | 17.6 % |

| | 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 | 8.4125 ppm | 0.0103 ppm | 0.0006 ppm | 65.3922 ppm | 0.0007 ppm | -0.0001 ppm | 0.0025 ppm |
| Concentration per Run 1 | 8.5119 ppm | 0.0103 ppm | 0.0008 ppm | 65.2666 ppm | 0.0009 ppm | 0.0004 ppm | 0.0021 ppm |
| Concentration per Run 2 | 8.3791 ppm | 0.0104 ppm | 0.0005 ppm | 65.7016 ppm | 0.0006 ppm | -0.0004 ppm | 0.0023 ppm |
| Concentration per Run 3 | 8.3465 ppm | 0.0103 ppm | 0.0005 ppm | 65.2083 ppm | 0.0006 ppm | -0.0003 ppm | 0.0032 ppm |
| Concentration RSD | 1.0 % | 0.6 % | 32.4 % | 0.4 % | 21.6 % | 355.4 % | 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 | -0.0015 ppm | 3.2719 ppm | 0.0003 ppm | 0.0879 ppm | -0.0002 ppm | 0.0003 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0025 ppm | 3.3132 ppm | 0.0002 ppm | 0.0887 ppm | -0.0001 ppm | 0.0007 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0010 ppm | 3.2773 ppm | -0.0004 ppm | 0.0877 ppm | -0.0003 ppm | 0.0006 ppm | -0.0001 ppm |
| Concentration per Run 3 | -0.0010 ppm | 3.2251 ppm | 0.0009 ppm | 0.0874 ppm | -0.0003 ppm | -0.0005 ppm | 0.0002 ppm |
| Concentration RSD | 58.4 % | 1.4 % | 256.4 % | 0.8 % | 65.0 % | 255.8 % | 173.8 % |

| | 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 | 0.0223 ppm | 90.4002 % | 95.0269 % | 85.3543 % | 92.6647 % | 97.7611 % | 92.4413 % |
| Concentration per Run 1 | 0.0223 ppm | 89.7562 % | 94.6927 % | 85.1458 % | 92.6145 % | 97.9799 % | 92.8599 % |
| Concentration per Run 2 | 0.0224 ppm | 90.7421 % | 95.3621 % | 85.3715 % | 93.0789 % | 97.9678 % | 92.2811 % |
| Concentration per Run 3 | 0.0222 ppm | 90.7024 % | 95.0257 % | 85.5456 % | 92.3005 % | 97.3357 % | 92.1828 % |
| Concentration RSD | 0.5 % | 0.6 % | 0.4 % | 0.2 % | 0.4 % | 0.4 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474716-01 WG2012426
Analysis started at: 12/23/2024 4:01:11 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 | 0.0000 ppm | 12.8929 ppm | 0.0080 ppm | 0.2198 ppm | 0.1031 ppm | 0.0005 ppm | 106.6573 ppm |
| Concentration per Run 1 | 0.0002 ppm | 12.8968 ppm | 0.0074 ppm | 0.2219 ppm | 0.1035 ppm | 0.0006 ppm | 107.0591 ppm |
| Concentration per Run 2 | 0.0000 ppm | 12.8839 ppm | 0.0087 ppm | 0.2178 ppm | 0.1033 ppm | 0.0005 ppm | 106.7840 ppm |
| Concentration per Run 3 | -0.0001 ppm | 12.8981 ppm | 0.0079 ppm | 0.2198 ppm | 0.1025 ppm | 0.0005 ppm | 106.1289 ppm |
| Concentration RSD | 326.0 % | 0.1 % | 8.3 % | 0.9 % | 0.5 % | 5.9 % | 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 | -0.0006 ppm | 0.0064 ppm | 0.0342 ppm | 0.0183 ppm | 15.0292 ppm | 46.5761 ppm | 0.0564 ppm |
| Concentration per Run 1 | -0.0006 ppm | 0.0066 ppm | 0.0344 ppm | 0.0183 ppm | 15.1101 ppm | 46.5707 ppm | 0.0571 ppm |
| Concentration per Run 2 | -0.0006 ppm | 0.0064 ppm | 0.0344 ppm | 0.0183 ppm | 15.0381 ppm | 46.5255 ppm | 0.0558 ppm |
| Concentration per Run 3 | -0.0005 ppm | 0.0062 ppm | 0.0338 ppm | 0.0182 ppm | 14.9394 ppm | 46.6322 ppm | 0.0564 ppm |
| Concentration RSD | 9.9 % | 3.4 % | 1.1 % | 0.4 % | 0.6 % | 0.1 % | 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 | 36.7829 ppm | 0.6772 ppm | 0.0131 ppm | 276.7622 ppm | 0.0175 ppm | 0.0083 ppm | 0.0012 ppm |
| Concentration per Run 1 | 37.0524 ppm | 0.6794 ppm | 0.0134 ppm | 276.6421 ppm | 0.0176 ppm | 0.0088 ppm | 0.0028 ppm |
| Concentration per Run 2 | 36.7025 ppm | 0.6781 ppm | 0.0128 ppm | 275.4670 ppm | 0.0175 ppm | 0.0080 ppm | 0.0013 ppm |
| Concentration per Run 3 | 36.5938 ppm | 0.6740 ppm | 0.0130 ppm | 278.1776 ppm | 0.0174 ppm | 0.0081 ppm | -0.0005 ppm |
| Concentration RSD | 0.7 % | 0.4 % | 2.6 % | 0.5 % | 0.8 % | 5.2 % | 141.3 % |

| | 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 | 0.0010 ppm | 29.4747 [SIC 100] | 0.0003 ppm | 0.6605 ppm | 0.8179 ppm | 0.0006 ppm | 0.0338 ppm |
| Concentration per Run 1 | 0.0007 ppm | 29.6380 ppm | 0.0005 ppm | 0.6622 ppm | 0.8212 ppm | 0.0006 ppm | 0.0341 ppm |
| Concentration per Run 2 | 0.0013 ppm | 29.4774 ppm | -0.0006 ppm | 0.6616 ppm | 0.8176 ppm | 0.0002 ppm | 0.0336 ppm |
| Concentration per Run 3 | 0.0010 ppm | 29.3087 ppm | 0.0009 ppm | 0.6576 ppm | 0.8148 ppm | 0.0009 ppm | 0.0338 ppm |
| Concentration RSD | 32.7 % | 0.6 % | 284.1 % | 0.4 % | 0.4 % | 67.4 % | 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 | 0.0665 ppm | 86.7971 % | 94.9459 % | 74.7936 % | 87.5298 % | 96.6518 % | 88.1117 % |
| Concentration per Run 1 | 0.0667 ppm | 86.4352 % | 94.4547 % | 74.1735 % | 87.8598 % | 96.3971 % | 88.0479 % |
| Concentration per Run 2 | 0.0661 ppm | 86.9448 % | 94.7952 % | 75.0715 % | 87.7563 % | 96.5027 % | 88.4593 % |
| Concentration per Run 3 | 0.0667 ppm | 87.0112 % | 95.5878 % | 75.1358 % | 86.9731 % | 97.0556 % | 87.8280 % |
| Concentration RSD | 0.5 % | 0.4 % | 0.6 % | 0.7 % | 0.6 % | 0.4 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012426-3 WG2012426
Analysis started at: 12/23/2024 4:05:38 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 | 0.0531 ppm | 15.0815 ppm | 0.1256 ppm | 1.1333 ppm | 2.1310 ppm | 0.0502 ppm | 114.3135 ppm |
| Concentration per Run 1 | 0.0535 ppm | 15.1084 ppm | 0.1265 ppm | 1.1320 ppm | 2.1517 ppm | 0.0504 ppm | 113.8910 ppm |
| Concentration per Run 2 | 0.0535 ppm | 15.0315 ppm | 0.1258 ppm | 1.1395 ppm | 2.1220 ppm | 0.0501 ppm | 114.4104 ppm |
| Concentration per Run 3 | 0.0522 ppm | 15.1047 ppm | 0.1244 ppm | 1.1283 ppm | 2.1194 ppm | 0.0501 ppm | 114.6390 ppm |
| Concentration RSD | 1.4 % | 0.3 % | 0.8 % | 0.5 % | 0.8 % | 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 | 0.0509 ppm | 0.4917 ppm | 0.2307 ppm | 0.2756 ppm | 15.2796 ppm | 57.0629 ppm | 0.0566 ppm |
| Concentration per Run 1 | 0.0512 ppm | 0.4940 ppm | 0.2317 ppm | 0.2772 ppm | 15.3353 ppm | 57.5699 ppm | 0.0579 ppm |
| Concentration per Run 2 | 0.0507 ppm | 0.4914 ppm | 0.2310 ppm | 0.2769 ppm | 15.2065 ppm | 56.9124 ppm | 0.0557 ppm |
| Concentration per Run 3 | 0.0508 ppm | 0.4898 ppm | 0.2293 ppm | 0.2725 ppm | 15.2969 ppm | 56.7063 ppm | 0.0562 ppm |
| Concentration RSD | 0.5 % | 0.4 % | 0.5 % | 1.0 % | 0.4 % | 0.8 % | 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 | 45.7963 ppm | 1.1383 ppm | 0.8175 ppm | 287.0312 ppm | 0.4856 ppm | 0.5633 ppm | 0.4532 ppm |
| Concentration per Run 1 | 45.9434 ppm | 1.1387 ppm | 0.8137 ppm | 288.6471 ppm | 0.4881 ppm | 0.5667 ppm | 0.4483 ppm |
| Concentration per Run 2 | 45.7887 ppm | 1.1357 ppm | 0.8131 ppm | 285.7661 ppm | 0.4842 ppm | 0.5640 ppm | 0.4563 ppm |
| Concentration per Run 3 | 45.6569 ppm | 1.1405 ppm | 0.8258 ppm | 286.6804 ppm | 0.4845 ppm | 0.5594 ppm | 0.4549 ppm |
| Concentration RSD | 0.3 % | 0.2 % | 0.9 % | 0.5 % | 0.4 % | 0.7 % | 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 | 0.1161 ppm | 30.5335 [SIC 100] | 0.8411 ppm | 1.6575 ppm | 1.7741 ppm | 0.1208 ppm | 0.5611 ppm |
| Concentration per Run 1 | 0.1175 ppm | 30.5930 ppm | 0.8433 ppm | 1.6687 ppm | 1.7827 ppm | 0.1224 ppm | 0.5653 ppm |
| Concentration per Run 2 | 0.1169 ppm | 30.6326 ppm | 0.8447 ppm | 1.6526 ppm | 1.7753 ppm | 0.1207 ppm | 0.5608 ppm |
| Concentration per Run 3 | 0.1140 ppm | 30.3748 ppm | 0.8352 ppm | 1.6513 ppm | 1.7642 ppm | 0.1193 ppm | 0.5572 ppm |
| Concentration RSD | 1.6 % | 0.5 % | 0.6 % | 0.6 % | 0.5 % | 1.3 % | 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 | 0.5475 ppm | 86.9534 % | 95.4160 % | 72.8933 % | 86.7999 % | 96.1724 % | 87.3129 % |
| Concentration per Run 1 | 0.5500 ppm | 86.6754 % | 95.6416 % | 72.5398 % | 87.2124 % | 96.4556 % | 87.3791 % |
| Concentration per Run 2 | 0.5468 ppm | 86.7787 % | 95.5532 % | 73.0999 % | 86.6895 % | 96.3321 % | 87.4944 % |
| Concentration per Run 3 | 0.5458 ppm | 87.4063 % | 95.0532 % | 73.0401 % | 86.4978 % | 95.7294 % | 87.0652 % |
| Concentration RSD | 0.4 % | 0.5 % | 0.3 % | 0.4 % | 0.4 % | 0.4 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012426-4 WG2012426
Analysis started at: 12/23/2024 4:10:05 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 | 0.0000 ppm | 12.7890 ppm | 0.0088 ppm | 0.2151 ppm | 0.1021 ppm | 0.0005 ppm | 104.7334 ppm |
| Concentration per Run 1 | 0.0001 ppm | 12.8682 ppm | 0.0073 ppm | 0.2159 ppm | 0.1027 ppm | 0.0005 ppm | 105.0812 ppm |
| Concentration per Run 2 | -0.0001 ppm | 12.8154 ppm | 0.0112 ppm | 0.2159 ppm | 0.1014 ppm | 0.0006 ppm | 105.0542 ppm |
| Concentration per Run 3 | 0.0000 ppm | 12.6835 ppm | 0.0079 ppm | 0.2137 ppm | 0.1021 ppm | 0.0005 ppm | 104.0649 ppm |
| Concentration RSD | 286.2 % | 0.7 % | 23.5 % | 0.6 % | 0.6 % | 5.6 % | 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 | -0.0005 ppm | 0.0066 ppm | 0.0343 ppm | 0.0180 ppm | 14.8862 ppm | 46.3768 ppm | 0.0572 ppm |
| Concentration per Run 1 | -0.0004 ppm | 0.0065 ppm | 0.0345 ppm | 0.0181 ppm | 14.9614 ppm | 46.2573 ppm | 0.0574 ppm |
| Concentration per Run 2 | -0.0005 ppm | 0.0064 ppm | 0.0344 ppm | 0.0182 ppm | 14.8542 ppm | 46.1973 ppm | 0.0572 ppm |
| Concentration per Run 3 | -0.0006 ppm | 0.0068 ppm | 0.0339 ppm | 0.0178 ppm | 14.8429 ppm | 46.6759 ppm | 0.0570 ppm |
| Concentration RSD | 17.3 % | 2.7 % | 1.0 % | 1.1 % | 0.4 % | 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 | 36.0901 ppm | 0.6672 ppm | 0.0163 ppm | 276.6647 ppm | 0.0172 ppm | 0.0072 ppm | 0.0023 ppm |
| Concentration per Run 1 | 36.4026 ppm | 0.6696 ppm | 0.0164 ppm | 276.6931 ppm | 0.0174 ppm | 0.0069 ppm | 0.0032 ppm |
| Concentration per Run 2 | 35.9946 ppm | 0.6667 ppm | 0.0164 ppm | 277.1279 ppm | 0.0167 ppm | 0.0077 ppm | 0.0025 ppm |
| Concentration per Run 3 | 35.8730 ppm | 0.6653 ppm | 0.0160 ppm | 276.1729 ppm | 0.0174 ppm | 0.0071 ppm | 0.0012 ppm |
| Concentration RSD | 0.8 % | 0.3 % | 1.2 % | 0.2 % | 2.4 % | 6.0 % | 42.3 % |

| | 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 | -0.0011 ppm | 29.0251 [SIC 100] | 0.0026 ppm | 0.6553 ppm | 0.8072 ppm | 0.0004 ppm | 0.0334 ppm |
| Concentration per Run 1 | -0.0005 ppm | 29.1783 ppm | 0.0026 ppm | 0.6590 ppm | 0.8131 ppm | -0.0002 ppm | 0.0340 ppm |
| Concentration per Run 2 | -0.0011 ppm | 29.0944 ppm | 0.0029 ppm | 0.6512 ppm | 0.8085 ppm | 0.0000 ppm | 0.0333 ppm |
| Concentration per Run 3 | -0.0017 ppm | 28.8027 ppm | 0.0022 ppm | 0.6556 ppm | 0.8000 ppm | 0.0014 ppm | 0.0329 ppm |
| Concentration RSD | 54.1 % | 0.7 % | 14.2 % | 0.6 % | 0.8 % | 230.3 % | 1.7 % |

| | 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 | 0.0640 ppm | 86.9786 % | 95.1968 % | 74.9215 % | 87.3812 % | 96.5547 % | 88.0476 % |
| Concentration per Run 1 | 0.0645 ppm | 86.4873 % | 94.9802 % | 74.6186 % | 87.5625 % | 96.8560 % | 87.9434 % |
| Concentration per Run 2 | 0.0640 ppm | 87.2256 % | 95.0407 % | 75.2545 % | 87.4288 % | 96.3799 % | 88.3668 % |
| Concentration per Run 3 | 0.0634 ppm | 87.2229 % | 95.5693 % | 74.8913 % | 87.1524 % | 96.4283 % | 87.8327 % |
| Concentration RSD | 0.9 % | 0.5 % | 0.3 % | 0.4 % | 0.2 % | 0.3 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012426-5 WG2012426
Analysis started at: 12/23/2024 4:14:32 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 | 0.0510 ppm | 14.5303 ppm | 0.1219 ppm | 1.1279 ppm | 2.0334 ppm | 0.0480 ppm | 112.4077 ppm |
| Concentration per Run 1 | 0.0514 ppm | 14.5709 ppm | 0.1211 ppm | 1.1393 ppm | 2.0353 ppm | 0.0482 ppm | 113.1847 ppm |
| Concentration per Run 2 | 0.0508 ppm | 14.4751 ppm | 0.1226 ppm | 1.1216 ppm | 2.0312 ppm | 0.0481 ppm | 112.7637 ppm |
| Concentration per Run 3 | 0.0508 ppm | 14.5451 ppm | 0.1221 ppm | 1.1229 ppm | 2.0338 ppm | 0.0477 ppm | 111.2746 ppm |
| Concentration RSD | 0.7 % | 0.3 % | 0.6 % | 0.9 % | 0.1 % | 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 | 0.0479 ppm | 0.4670 ppm | 0.2194 ppm | 0.2644 ppm | 15.4172 ppm | 56.0737 ppm | 0.0564 ppm |
| Concentration per Run 1 | 0.0485 ppm | 0.4707 ppm | 0.2219 ppm | 0.2665 ppm | 15.4591 ppm | 55.5911 ppm | 0.0574 ppm |
| Concentration per Run 2 | 0.0473 ppm | 0.4644 ppm | 0.2178 ppm | 0.2649 ppm | 15.4651 ppm | 56.1819 ppm | 0.0554 ppm |
| Concentration per Run 3 | 0.0479 ppm | 0.4658 ppm | 0.2184 ppm | 0.2619 ppm | 15.3273 ppm | 56.4481 ppm | 0.0565 ppm |
| Concentration RSD | 1.3 % | 0.7 % | 1.0 % | 0.9 % | 0.5 % | 0.8 % | 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 | 44.7318 ppm | 1.1163 ppm | 0.8358 ppm | 281.5933 ppm | 0.4735 ppm | 0.5440 ppm | 0.3815 ppm |
| Concentration per Run 1 | 45.0522 ppm | 1.1228 ppm | 0.8329 ppm | 281.1454 ppm | 0.4787 ppm | 0.5472 ppm | 0.3832 ppm |
| Concentration per Run 2 | 44.4248 ppm | 1.1171 ppm | 0.8298 ppm | 280.0443 ppm | 0.4697 ppm | 0.5428 ppm | 0.3779 ppm |
| Concentration per Run 3 | 44.7185 ppm | 1.1090 ppm | 0.8447 ppm | 283.5902 ppm | 0.4719 ppm | 0.5420 ppm | 0.3835 ppm |
| Concentration RSD | 0.7 % | 0.6 % | 0.9 % | 0.6 % | 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 | 0.1148 ppm | 29.0149 [SIC 100] | 0.9233 ppm | 1.6392 ppm | 1.7650 ppm | 0.1150 ppm | 0.5340 ppm |
| Concentration per Run 1 | 0.1142 ppm | 29.2137 ppm | 0.9323 ppm | 1.6430 ppm | 1.7761 ppm | 0.1153 ppm | 0.5386 ppm |
| Concentration per Run 2 | 0.1162 ppm | 28.9451 ppm | 0.9173 ppm | 1.6379 ppm | 1.7635 ppm | 0.1145 ppm | 0.5317 ppm |
| Concentration per Run 3 | 0.1141 ppm | 28.8860 ppm | 0.9204 ppm | 1.6366 ppm | 1.7556 ppm | 0.1150 ppm | 0.5316 ppm |
| Concentration RSD | 1.0 % | 0.6 % | 0.9 % | 0.2 % | 0.6 % | 0.3 % | 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 | 0.5313 ppm | 86.9418 % | 94.8733 % | 73.1139 % | 86.4256 % | 95.3994 % | 87.1246 % |
| Concentration per Run 1 | 0.5372 ppm | 86.3134 % | 94.3364 % | 72.7025 % | 86.5601 % | 95.2223 % | 87.0877 % |
| Concentration per Run 2 | 0.5257 ppm | 87.3707 % | 94.4102 % | 73.3112 % | 86.7148 % | 94.9274 % | 87.1420 % |
| Concentration per Run 3 | 0.5311 ppm | 87.1412 % | 95.8734 % | 73.3279 % | 86.0020 % | 96.0485 % | 87.1443 % |
| Concentration RSD | 1.1 % | 0.6 % | 0.9 % | 0.5 % | 0.4 % | 0.6 % | 0.0 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012426-6d5 WG2012426
Analysis started at: 12/23/2024 4:19:02 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 | -0.0001 ppm | 2.5289 ppm | 0.0005 ppm | 0.0457 ppm | 0.0207 ppm | 0.0001 ppm | 21.8548 ppm |
| Concentration per Run 1 | 0.0000 ppm | 2.5365 ppm | -0.0003 ppm | 0.0468 ppm | 0.0207 ppm | 0.0001 ppm | 21.9482 ppm |
| Concentration per Run 2 | -0.0001 ppm | 2.5345 ppm | 0.0010 ppm | 0.0452 ppm | 0.0209 ppm | 0.0001 ppm | 21.8646 ppm |
| Concentration per Run 3 | -0.0001 ppm | 2.5157 ppm | 0.0007 ppm | 0.0450 ppm | 0.0206 ppm | 0.0001 ppm | 21.7516 ppm |
| Concentration RSD | 73.3 % | 0.5 % | 140.4 % | 2.2 % | 0.7 % | 0.8 % | 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 | -0.0002 ppm | 0.0012 ppm | 0.0069 ppm | 0.0036 ppm | 3.0595 ppm | 9.3507 ppm | 0.0115 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0013 ppm | 0.0070 ppm | 0.0037 ppm | 3.0664 ppm | 9.2806 ppm | 0.0123 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0013 ppm | 0.0069 ppm | 0.0038 ppm | 3.0606 ppm | 9.3292 ppm | 0.0112 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0011 ppm | 0.0068 ppm | 0.0033 ppm | 3.0515 ppm | 9.4423 ppm | 0.0111 ppm |
| Concentration RSD | 26.7 % | 9.3 % | 1.4 % | 6.4 % | 0.2 % | 0.9 % | 5.7 % |

| | 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 | 7.6614 ppm | 0.1364 ppm | 0.0096 ppm | 58.0188 ppm | 0.0035 ppm | 0.0015 ppm | 0.0126 ppm |
| Concentration per Run 1 | 7.7230 ppm | 0.1368 ppm | 0.0100 ppm | 57.8142 ppm | 0.0036 ppm | 0.0020 ppm | 0.0129 ppm |
| Concentration per Run 2 | 7.6647 ppm | 0.1367 ppm | 0.0095 ppm | 58.0165 ppm | 0.0038 ppm | 0.0016 ppm | 0.0116 ppm |
| Concentration per Run 3 | 7.5964 ppm | 0.1359 ppm | 0.0093 ppm | 58.2257 ppm | 0.0031 ppm | 0.0010 ppm | 0.0133 ppm |
| Concentration RSD | 0.8 % | 0.3 % | 3.7 % | 0.4 % | 10.3 % | 32.0 % | 7.3 % |

| | 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 | -0.0011 ppm | 5.8607 ppm | 0.0061 ppm | 0.1339 ppm | 0.1639 ppm | 0.0001 ppm | 0.0067 ppm |
| Concentration per Run 1 | -0.0009 ppm | 5.9185 ppm | 0.0064 ppm | 0.1340 ppm | 0.1652 ppm | -0.0005 ppm | 0.0068 ppm |
| Concentration per Run 2 | 0.0005 ppm | 5.8440 ppm | 0.0055 ppm | 0.1342 ppm | 0.1636 ppm | 0.0000 ppm | 0.0066 ppm |
| Concentration per Run 3 | -0.0028 ppm | 5.8196 ppm | 0.0064 ppm | 0.1333 ppm | 0.1629 ppm | 0.0008 ppm | 0.0068 ppm |
| Concentration RSD | 161.5 % | 0.9 % | 8.2 % | 0.4 % | 0.7 % | 629.2 % | 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 | 0.0136 ppm | 93.5145 % | 97.8391 % | 88.1123 % | 92.0988 % | 97.5646 % | 93.4283 % |
| Concentration per Run 1 | 0.0137 ppm | 92.5850 % | 97.6713 % | 87.2911 % | 91.9257 % | 97.6324 % | 93.0664 % |
| Concentration per Run 2 | 0.0135 ppm | 93.7118 % | 97.6755 % | 88.6666 % | 92.2322 % | 97.6700 % | 93.4804 % |
| Concentration per Run 3 | 0.0137 ppm | 94.2467 % | 98.1703 % | 88.3793 % | 92.1384 % | 97.3914 % | 93.7381 % |
| Concentration RSD | 0.9 % | 0.9 % | 0.3 % | 0.8 % | 0.2 % | 0.2 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 4:23:30 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 | 0.4905 ppm | 0.4950 ppm | 0.4648 ppm | 0.4542 ppm | 0.5046 ppm | 0.4944 ppm | 0.4827 ppm |
| Concentration per Run 1 | 0.4927 ppm | 0.4978 ppm | 0.4629 ppm | 0.4571 ppm | 0.5020 ppm | 0.4963 ppm | 0.4848 ppm |
| Concentration per Run 2 | 0.4915 ppm | 0.4888 ppm | 0.4669 ppm | 0.4527 ppm | 0.5062 ppm | 0.4927 ppm | 0.4814 ppm |
| Concentration per Run 3 | 0.4873 ppm | 0.4983 ppm | 0.4647 ppm | 0.4527 ppm | 0.5056 ppm | 0.4942 ppm | 0.4818 ppm |
| Recovery Percentage 1 | 98.098 % | 98.998 % | 92.966 % | 90.836 % | 100.920 % | 98.880 % | 96.532 % |
| Concentration RSD | 0.6 % | 1.1 % | 0.4 % | 0.6 % | 0.5 % | 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 | 0.4761 ppm | 0.4979 ppm | 0.4820 ppm | 0.4884 ppm | 0.4917 ppm | 5.3785 ppm | 0.5262 ppm |
| Concentration per Run 1 | 0.4759 ppm | 0.4991 ppm | 0.4844 ppm | 0.4884 ppm | 0.4939 ppm | 5.3933 ppm | 0.5250 ppm |
| Concentration per Run 2 | 0.4790 ppm | 0.5001 ppm | 0.4834 ppm | 0.4894 ppm | 0.4905 ppm | 5.3390 ppm | 0.5255 ppm |
| Concentration per Run 3 | 0.4733 ppm | 0.4947 ppm | 0.4782 ppm | 0.4874 ppm | 0.4907 ppm | 5.4031 ppm | 0.5279 ppm |
| Recovery Percentage 1 | 95.219 % | 99.588 % | 96.405 % | 97.680 % | 98.346 % | 107.569 % | 105.233 % |
| Concentration RSD | 0.6 % | 0.6 % | 0.7 % | 0.2 % | 0.4 % | 0.6 % | 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 | 0.4857 ppm | 0.4815 ppm | 0.4821 ppm | 10.4758 ppm | 0.4946 ppm | 0.4884 ppm | 0.4992 ppm |
| Concentration per Run 1 | 0.4873 ppm | 0.4840 ppm | 0.4796 ppm | 10.3929 ppm | 0.4973 ppm | 0.4882 ppm | 0.4988 ppm |
| Concentration per Run 2 | 0.4860 ppm | 0.4795 ppm | 0.4854 ppm | 10.4451 ppm | 0.4969 ppm | 0.4884 ppm | 0.5012 ppm |
| Concentration per Run 3 | 0.4837 ppm | 0.4810 ppm | 0.4814 ppm | 10.5893 ppm | 0.4894 ppm | 0.4885 ppm | 0.4976 ppm |
| Recovery Percentage 1 | 97.138 % | 96.299 % | 96.429 % | 104.758 % | 98.913 % | 97.675 % | 99.835 % |
| Concentration RSD | 0.4 % | 0.5 % | 0.6 % | 1.0 % | 0.9 % | 0.0 % | 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 | 0.4764 ppm | 5.1897 ppm | 0.5074 ppm | 0.5381 ppm | 0.4822 ppm | 0.4910 ppm | 0.4953 ppm |
| Concentration per Run 1 | 0.4770 ppm | 5.2033 ppm | 0.5097 ppm | 0.5387 ppm | 0.4838 ppm | 0.4909 ppm | 0.4967 ppm |
| Concentration per Run 2 | 0.4771 ppm | 5.2085 ppm | 0.5106 ppm | 0.5365 ppm | 0.4831 ppm | 0.4909 ppm | 0.4962 ppm |
| Concentration per Run 3 | 0.4750 ppm | 5.1572 ppm | 0.5018 ppm | 0.5390 ppm | 0.4797 ppm | 0.4912 ppm | 0.4929 ppm |
| Recovery Percentage 1 | 95.277 % | 98.851 % | 101.472 % | 107.619 % | 96.441 % | 98.205 % | 99.053 % |
| Concentration RSD | 0.3 % | 0.5 % | 1.0 % | 0.2 % | 0.5 % | 0.0 % | 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 | 0.4783 ppm | 99.3344 % | 99.2988 % | 94.6164 % | 95.6258 % | 98.2558 % | 95.8343 % |
| Concentration per Run 1 | 0.4795 ppm | 99.0926 % | 98.4337 % | 94.7298 % | 95.7244 % | 97.7258 % | 96.0418 % |
| Concentration per Run 2 | 0.4816 ppm | 99.2107 % | 99.8423 % | 94.3407 % | 95.5139 % | 98.6413 % | 95.4280 % |
| Concentration per Run 3 | 0.4738 ppm | 99.6999 % | 99.6204 % | 94.7786 % | 95.6391 % | 98.4001 % | 96.0332 % |
| Recovery Percentage 1 | 95.660 % | | | | | | |
| Concentration RSD | 0.8 % | 0.3 % | 0.8 % | 0.3 % | 0.1 % | 0.5 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 4:27:57 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 | -0.0010 ppm | -0.0005 ppm | 0.0009 ppm | 0.0001 ppm | 0.0000 ppm | 0.0010 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0003 ppm | 0.0000 ppm | 0.0007 ppm | 0.0001 ppm | 0.0000 ppm | 0.0009 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0015 ppm | -0.0010 ppm | 0.0011 ppm | 0.0001 ppm | 0.0000 ppm | 0.0006 ppm |
| Concentration per Run 3 | 0.0001 ppm | -0.0011 ppm | -0.0004 ppm | 0.0011 ppm | 0.0001 ppm | 0.0000 ppm | 0.0013 ppm |
| Recovery Percentage 1 | 1.111 % | -0.985 % | -9.239 % | 3.123 % | 0.988 % | 0.258 % | 0.953 % |
| Concentration RSD | 168.1 % | 58.5 % | 106.3 % | 26.0 % | 20.3 % | 136.4 % | 37.7 % |

| | 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 | -0.0004 ppm | 0.0024 ppm | 0.0294 ppm | -0.0003 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0004 ppm | -0.0003 ppm | -0.0003 ppm | 0.0032 ppm | 0.0298 ppm | -0.0003 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0003 ppm | -0.0002 ppm | -0.0006 ppm | 0.0028 ppm | 0.0234 ppm | -0.0006 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0001 ppm | 0.0000 ppm | -0.0003 ppm | 0.0013 ppm | 0.0348 ppm | 0.0001 ppm |
| Recovery Percentage 1 | 0.915 % | -1.900 % | -1.658 % | -4.190 % | 4.860 % | 1.174 % | -3.031 % |
| Concentration RSD | 114.8 % | 152.5 % | 111.0 % | 41.7 % | 40.9 % | 19.5 % | 112.0 % |

| | 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 | 0.0001 ppm | 0.0025 ppm | 0.0539 ppm | -0.0003 ppm | 0.0002 ppm | 0.0032 ppm |
| Concentration per Run 1 | -0.0019 ppm | 0.0001 ppm | 0.0023 ppm | 0.0536 ppm | -0.0003 ppm | 0.0007 ppm | 0.0019 ppm |
| Concentration per Run 2 | -0.0005 ppm | 0.0001 ppm | 0.0025 ppm | 0.0534 ppm | -0.0004 ppm | -0.0001 ppm | 0.0039 ppm |
| Concentration per Run 3 | -0.0021 ppm | 0.0000 ppm | 0.0027 ppm | 0.0547 ppm | -0.0002 ppm | 0.0000 ppm | 0.0037 ppm |
| Recovery Percentage 1 | -1.527 % | 0.558 % | 4.990 % | 2.694 % | -1.130 % | 2.316 % | 6.375 % |
| Concentration RSD | 56.8 % | 53.8 % | 9.7 % | 1.3 % | 26.1 % | 182.1 % | 34.4 % |

| | 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 | 0.0009 ppm | 0.0011 ppm | 0.0001 ppm | -0.0002 ppm | 0.0002 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0006 ppm | 0.0002 ppm | 0.0015 ppm | 0.0000 ppm | -0.0001 ppm | 0.0002 ppm | 0.0002 ppm |
| Concentration per Run 2 | 0.0007 ppm | 0.0018 ppm | 0.0008 ppm | 0.0001 ppm | -0.0002 ppm | 0.0005 ppm | -0.0001 ppm |
| Concentration per Run 3 | -0.0018 ppm | 0.0006 ppm | 0.0011 ppm | 0.0001 ppm | -0.0003 ppm | -0.0001 ppm | 0.0001 ppm |
| Recovery Percentage 1 | -5.673 % | 0.174 % | 2.283 % | 0.547 % | -2.039 % | 0.907 % | 0.858 % |
| Concentration RSD | 225.3 % | 94.9 % | 29.7 % | 89.8 % | 32.8 % | 157.9 % | 148.1 % |

| | 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 | 97.0314 % | 98.0524 % | 96.2198 % | 97.3713 % | 98.9244 % | 97.4532 % |
| Concentration per Run 1 | -0.0001 ppm | 96.5809 % | 98.2661 % | 95.2863 % | 97.6116 % | 99.2189 % | 97.1670 % |
| Concentration per Run 2 | -0.0004 ppm | 97.0129 % | 98.1467 % | 96.8618 % | 97.4673 % | 98.9151 % | 97.6057 % |
| Concentration per Run 3 | -0.0004 ppm | 97.5003 % | 97.7443 % | 96.5113 % | 97.0351 % | 98.6393 % | 97.5868 % |
| Recovery Percentage 1 | -6.254 % | | | | | | |
| Concentration RSD | 65.9 % | 0.5 % | 0.3 % | 0.9 % | 0.3 % | 0.3 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474716-02 WG2012426
Analysis started at: 12/23/2024 4:33:21 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 | -0.0001 ppm | 0.0284 ppm | -0.0003 ppm | 0.2017 ppm | 0.0335 ppm | 0.0000 ppm | 102.3563 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0287 ppm | 0.0000 ppm | 0.2037 ppm | 0.0336 ppm | 0.0000 ppm | 103.2357 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0271 ppm | -0.0005 ppm | 0.2021 ppm | 0.0334 ppm | 0.0000 ppm | 102.1237 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0296 ppm | -0.0004 ppm | 0.1994 ppm | 0.0336 ppm | 0.0000 ppm | 101.7095 ppm |
| Concentration RSD | 101.4 % | 4.4 % | 80.8 % | 1.1 % | 0.3 % | 132.7 % | 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 | -0.0006 ppm | 0.0011 ppm | 0.0069 ppm | 0.0042 ppm | 0.3995 ppm | 26.0630 ppm | 0.0250 ppm |
| Concentration per Run 1 | -0.0007 ppm | 0.0010 ppm | 0.0067 ppm | 0.0042 ppm | 0.4010 ppm | 25.7003 ppm | 0.0253 ppm |
| Concentration per Run 2 | -0.0006 ppm | 0.0015 ppm | 0.0073 ppm | 0.0043 ppm | 0.3978 ppm | 26.2007 ppm | 0.0246 ppm |
| Concentration per Run 3 | -0.0006 ppm | 0.0009 ppm | 0.0065 ppm | 0.0042 ppm | 0.3996 ppm | 26.2879 ppm | 0.0250 ppm |
| Concentration RSD | 6.5 % | 25.7 % | 6.0 % | 1.4 % | 0.4 % | 1.2 % | 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 | 35.1688 ppm | 0.2840 ppm | 0.0224 ppm | 280.8523 ppm | 0.0010 ppm | 0.0005 ppm | 0.0027 ppm |
| Concentration per Run 1 | 35.5416 ppm | 0.2864 ppm | 0.0220 ppm | 277.8014 ppm | 0.0004 ppm | 0.0004 ppm | 0.0023 ppm |
| Concentration per Run 2 | 35.1794 ppm | 0.2832 ppm | 0.0223 ppm | 281.6382 ppm | 0.0014 ppm | 0.0004 ppm | 0.0028 ppm |
| Concentration per Run 3 | 34.7854 ppm | 0.2824 ppm | 0.0229 ppm | 283.1174 ppm | 0.0012 ppm | 0.0006 ppm | 0.0029 ppm |
| Concentration RSD | 1.1 % | 0.7 % | 1.9 % | 1.0 % | 55.2 % | 23.4 % | 11.1 % |

| | 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 | 2.4292 ppm | 0.0007 ppm | 0.6186 ppm | -0.0001 ppm | 0.0006 ppm | 0.0004 ppm |
| Concentration per Run 1 | -0.0015 ppm | 2.4463 ppm | 0.0012 ppm | 0.6212 ppm | -0.0002 ppm | 0.0004 ppm | 0.0004 ppm |
| Concentration per Run 2 | -0.0005 ppm | 2.4317 ppm | 0.0009 ppm | 0.6155 ppm | 0.0000 ppm | 0.0005 ppm | 0.0005 ppm |
| Concentration per Run 3 | -0.0005 ppm | 2.4098 ppm | 0.0001 ppm | 0.6190 ppm | -0.0001 ppm | 0.0011 ppm | 0.0003 ppm |
| Concentration RSD | 72.3 % | 0.8 % | 79.9 % | 0.5 % | 77.8 % | 61.9 % | 22.9 % |

| | 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 | 0.0174 ppm | 83.9111 % | 91.9463 % | 75.3013 % | 85.4754 % | 93.8578 % | 86.3677 % |
| Concentration per Run 1 | 0.0177 ppm | 82.9001 % | 91.2635 % | 74.8923 % | 84.8815 % | 93.8420 % | 86.2966 % |
| Concentration per Run 2 | 0.0172 ppm | 84.0809 % | 91.8862 % | 75.4433 % | 85.6423 % | 93.3792 % | 86.6237 % |
| Concentration per Run 3 | 0.0174 ppm | 84.7523 % | 92.6894 % | 75.5684 % | 85.9025 % | 94.3522 % | 86.1828 % |
| Concentration RSD | 1.5 % | 1.1 % | 0.8 % | 0.5 % | 0.6 % | 0.5 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

| | |
|---|---|
| Sample: | L2474717-01 WG2012426 |
| Analysis started at: | 12/23/2024 4:37:52 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 | 0.0000 ppm | 7.9295 ppm | 0.0062 ppm | 0.1311 ppm | 0.0489 ppm | 0.0001 ppm | 24.8967 ppm |
| Concentration per Run 1 | 0.0000 ppm | 7.9568 ppm | 0.0048 ppm | 0.1318 ppm | 0.0493 ppm | 0.0002 ppm | 24.9752 ppm |
| Concentration per Run 2 | 0.0001 ppm | 7.9253 ppm | 0.0071 ppm | 0.1308 ppm | 0.0488 ppm | 0.0001 ppm | 24.9012 ppm |
| Concentration per Run 3 | 0.0000 ppm | 7.9063 ppm | 0.0066 ppm | 0.1308 ppm | 0.0487 ppm | 0.0001 ppm | 24.8137 ppm |
| Concentration RSD | 320.4 % | 0.3 % | 20.1 % | 0.4 % | 0.7 % | 10.9 % | 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 | -0.0002 ppm | 0.0021 ppm | 0.0069 ppm | 0.0177 ppm | 2.4134 ppm | 223.0588 ppm | 0.4486 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0024 ppm | 0.0071 ppm | 0.0183 ppm | 2.4263 ppm | 221.4983 ppm | 0.4532 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.0023 ppm | 0.0068 ppm | 0.0176 ppm | 2.4105 ppm | 225.1047 ppm | 0.4485 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0018 ppm | 0.0068 ppm | 0.0173 ppm | 2.4035 ppm | 222.5734 ppm | 0.4443 ppm |
| Concentration RSD | 50.8 % | 13.9 % | 2.1 % | 2.9 % | 0.5 % | 0.8 % | 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 | 1.1412 ppm | 0.0665 ppm | 0.0699 ppm | 468.5461 ppm | 0.0318 ppm | 0.0032 ppm | 0.0026 ppm |
| Concentration per Run 1 | 1.1501 ppm | 0.0670 ppm | 0.0703 ppm | 462.6586 ppm | 0.0318 ppm | 0.0032 ppm | 0.0005 ppm |
| Concentration per Run 2 | 1.1413 ppm | 0.0666 ppm | 0.0690 ppm | 473.3160 ppm | 0.0320 ppm | 0.0033 ppm | 0.0043 ppm |
| Concentration per Run 3 | 1.1323 ppm | 0.0659 ppm | 0.0703 ppm | 469.6636 ppm | 0.0316 ppm | 0.0031 ppm | 0.0030 ppm |
| Concentration RSD | 0.8 % | 0.8 % | 1.1 % | 1.2 % | 0.6 % | 2.7 % | 74.0 % |

| | 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 | 9.2169 ppm | 0.0003 ppm | 0.9370 ppm | 0.0809 ppm | 0.0012 ppm | 0.0455 ppm |
| Concentration per Run 1 | 0.0023 ppm | 9.3091 ppm | -0.0002 ppm | 0.9417 ppm | 0.0812 ppm | 0.0005 ppm | 0.0459 ppm |
| Concentration per Run 2 | -0.0006 ppm | 9.1963 ppm | 0.0010 ppm | 0.9360 ppm | 0.0810 ppm | 0.0008 ppm | 0.0456 ppm |
| Concentration per Run 3 | 0.0004 ppm | 9.1454 ppm | 0.0002 ppm | 0.9332 ppm | 0.0804 ppm | 0.0024 ppm | 0.0451 ppm |
| Concentration RSD | 206.4 % | 0.9 % | 176.2 % | 0.5 % | 0.5 % | 86.1 % | 0.9 % |

| | 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 | 0.0138 ppm | 82.7620 % | 93.9127 % | 73.2059 % | 84.9120 % | 96.0591 % | 86.9586 % |
| Concentration per Run 1 | 0.0139 ppm | 82.0009 % | 93.6408 % | 72.9637 % | 84.9339 % | 96.2733 % | 87.0698 % |
| Concentration per Run 2 | 0.0139 ppm | 82.8417 % | 93.5620 % | 73.4084 % | 84.8121 % | 95.3223 % | 86.8475 % |
| Concentration per Run 3 | 0.0137 ppm | 83.4433 % | 94.5351 % | 73.2457 % | 84.9900 % | 96.5817 % | 86.9586 % |
| Concentration RSD | 0.8 % | 0.9 % | 0.6 % | 0.3 % | 0.1 % | 0.7 % | 0.1 % |

# iCAP Pro Trace 8 Data report
12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474717-02 WG2012426
Analysis started at: 12/23/2024 4:42:20 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 | 0.0001 ppm | 0.3347 ppm | 0.0001 ppm | 0.2339 ppm | 0.0015 ppm | 0.0000 ppm | 11.2647 ppm |
| Concentration per Run 1 | 0.0003 ppm | 0.3340 ppm | -0.0002 ppm | 0.2346 ppm | 0.0016 ppm | 0.0000 ppm | 11.3097 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.3322 ppm | 0.0006 ppm | 0.2350 ppm | 0.0015 ppm | 0.0000 ppm | 11.2548 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.3378 ppm | 0.0001 ppm | 0.2323 ppm | 0.0015 ppm | 0.0000 ppm | 11.2296 ppm |
| Concentration RSD | 165.7 % | 0.9 % | 309.5 % | 0.6 % | 4.4 % | 4,322.2 % | 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 | 0.0008 ppm | 0.0007 ppm | 0.0071 ppm | 0.4150 ppm | 9.7543 ppm | 0.3125 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0004 ppm | 0.0007 ppm | 0.0071 ppm | 0.4174 ppm | 9.6631 ppm | 0.3116 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0011 ppm | 0.0008 ppm | 0.0072 ppm | 0.4127 ppm | 9.8403 ppm | 0.3117 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0008 ppm | 0.0005 ppm | 0.0070 ppm | 0.4148 ppm | 9.7596 ppm | 0.3143 ppm |
| Concentration RSD | 500.1 % | 50.1 % | 23.9 % | 1.7 % | 0.6 % | 0.9 % | 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 | 0.7106 ppm | 0.0198 ppm | 0.0061 ppm | 500.3972 [SIC 500] | 0.0041 ppm | 0.0009 ppm | -0.0015 ppm |
| Concentration per Run 1 | 0.7154 ppm | 0.0199 ppm | 0.0063 ppm | 496.7523 ppm | 0.0045 ppm | 0.0014 ppm | -0.0008 ppm |
| Concentration per Run 2 | 0.7145 ppm | 0.0195 ppm | 0.0058 ppm | 500.7943 ppm | 0.0040 ppm | 0.0008 ppm | -0.0019 ppm |
| Concentration per Run 3 | 0.7019 ppm | 0.0201 ppm | 0.0062 ppm | 503.6449 ppm | 0.0036 ppm | 0.0005 ppm | -0.0019 ppm |
| Concentration RSD | 1.1 % | 1.6 % | 4.3 % | 0.7 % | 10.2 % | 48.3 % | 43.5 % |

| | 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 | 4.8837 ppm | 0.0006 ppm | 0.0870 ppm | 0.0187 ppm | 0.0002 ppm | 0.0008 ppm |
| Concentration per Run 1 | 0.0010 ppm | 4.9091 ppm | -0.0002 ppm | 0.0872 ppm | 0.0191 ppm | -0.0002 ppm | 0.0009 ppm |
| Concentration per Run 2 | -0.0006 ppm | 4.8981 ppm | 0.0009 ppm | 0.0866 ppm | 0.0185 ppm | 0.0003 ppm | 0.0007 ppm |
| Concentration per Run 3 | -0.0003 ppm | 4.8439 ppm | 0.0011 ppm | 0.0873 ppm | 0.0187 ppm | 0.0005 ppm | 0.0008 ppm |
| Concentration RSD | 8,057.6 % | 0.7 % | 110.4 % | 0.5 % | 1.5 % | 162.6 % | 13.7 % |

| | 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 | 0.0045 ppm | 82.9395 % | 92.2831 % | 74.4476 % | 84.4698 % | 94.1773 % | 86.6971 % |
| Concentration per Run 1 | 0.0045 ppm | 82.5688 % | 92.2730 % | 74.3523 % | 84.6850 % | 94.5609 % | 87.1215 % |
| Concentration per Run 2 | 0.0046 ppm | 82.7532 % | 92.3881 % | 74.3706 % | 84.0731 % | 93.8298 % | 86.3739 % |
| Concentration per Run 3 | 0.0043 ppm | 83.4965 % | 92.1883 % | 74.6199 % | 84.6513 % | 94.1411 % | 86.5959 % |
| Concentration RSD | 3.5 % | 0.6 % | 0.1 % | 0.2 % | 0.4 % | 0.4 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 4:49:32 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 | 0.4899 ppm | 0.4928 ppm | 0.4635 ppm | 0.4524 ppm | 0.5051 ppm | 0.4943 ppm | 0.4835 ppm |
| Concentration per Run 1 | 0.4916 ppm | 0.4906 ppm | 0.4628 ppm | 0.4545 ppm | 0.5091 ppm | 0.4945 ppm | 0.4841 ppm |
| Concentration per Run 2 | 0.4890 ppm | 0.4939 ppm | 0.4640 ppm | 0.4532 ppm | 0.5017 ppm | 0.4949 ppm | 0.4835 ppm |
| Concentration per Run 3 | 0.4890 ppm | 0.4940 ppm | 0.4635 ppm | 0.4495 ppm | 0.5045 ppm | 0.4934 ppm | 0.4828 ppm |
| Recovery Percentage 1 | 97.976 % | 98.560 % | 92.692 % | 90.483 % | 101.028 % | 98.859 % | 96.691 % |
| Concentration RSD | 0.3 % | 0.4 % | 0.1 % | 0.6 % | 0.7 % | 0.2 % | 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 | 0.4771 ppm | 0.4992 ppm | 0.4821 ppm | 0.4883 ppm | 0.4922 ppm | 5.4089 ppm | 0.5270 ppm |
| Concentration per Run 1 | 0.4821 ppm | 0.5034 ppm | 0.4866 ppm | 0.4899 ppm | 0.4903 ppm | 5.4196 ppm | 0.5283 ppm |
| Concentration per Run 2 | 0.4771 ppm | 0.4988 ppm | 0.4810 ppm | 0.4891 ppm | 0.4953 ppm | 5.3829 ppm | 0.5234 ppm |
| Concentration per Run 3 | 0.4721 ppm | 0.4953 ppm | 0.4788 ppm | 0.4858 ppm | 0.4910 ppm | 5.4240 ppm | 0.5294 ppm |
| Recovery Percentage 1 | 95.420 % | 99.833 % | 96.427 % | 97.655 % | 98.436 % | 108.177 % | 105.403 % |
| Concentration RSD | 1.1 % | 0.8 % | 0.8 % | 0.4 % | 0.6 % | 0.4 % | 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 | 0.4847 ppm | 0.4816 ppm | 0.4841 ppm | 10.5171 ppm | 0.4950 ppm | 0.4858 ppm | 0.4923 ppm |
| Concentration per Run 1 | 0.4896 ppm | 0.4815 ppm | 0.4847 ppm | 10.5363 ppm | 0.4990 ppm | 0.4871 ppm | 0.4943 ppm |
| Concentration per Run 2 | 0.4823 ppm | 0.4833 ppm | 0.4846 ppm | 10.4627 ppm | 0.4941 ppm | 0.4855 ppm | 0.4905 ppm |
| Concentration per Run 3 | 0.4822 ppm | 0.4799 ppm | 0.4829 ppm | 10.5523 ppm | 0.4921 ppm | 0.4848 ppm | 0.4921 ppm |
| Recovery Percentage 1 | 96.945 % | 96.311 % | 96.812 % | 105.171 % | 99.009 % | 97.158 % | 98.456 % |
| Concentration RSD | 0.9 % | 0.4 % | 0.2 % | 0.5 % | 0.7 % | 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 | 0.4781 ppm | 5.1887 ppm | 0.5085 ppm | 0.5389 ppm | 0.4811 ppm | 0.4886 ppm | 0.4957 ppm |
| Concentration per Run 1 | 0.4785 ppm | 5.2213 ppm | 0.5149 ppm | 0.5407 ppm | 0.4846 ppm | 0.4855 ppm | 0.4977 ppm |
| Concentration per Run 2 | 0.4772 ppm | 5.1835 ppm | 0.5095 ppm | 0.5362 ppm | 0.4791 ppm | 0.4908 ppm | 0.4950 ppm |
| Concentration per Run 3 | 0.4785 ppm | 5.1612 ppm | 0.5010 ppm | 0.5400 ppm | 0.4795 ppm | 0.4895 ppm | 0.4943 ppm |
| Recovery Percentage 1 | 95.618 % | 98.832 % | 101.690 % | 107.788 % | 96.215 % | 97.714 % | 99.137 % |
| Concentration RSD | 0.2 % | 0.6 % | 1.4 % | 0.4 % | 0.6 % | 0.6 % | 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 | 0.4818 ppm | 99.3793 % | 99.0002 % | 95.0336 % | 95.8218 % | 97.8179 % | 95.9904 % |
| Concentration per Run 1 | 0.4877 ppm | 98.6532 % | 99.4740 % | 94.9577 % | 95.3932 % | 98.3122 % | 96.0116 % |
| Concentration per Run 2 | 0.4816 ppm | 99.9066 % | 98.3340 % | 95.4349 % | 96.5470 % | 97.1561 % | 96.1950 % |
| Concentration per Run 3 | 0.4760 ppm | 99.5782 % | 99.1925 % | 94.7083 % | 95.5251 % | 97.9853 % | 95.7645 % |
| Recovery Percentage 1 | 96.356 % | | | | | | |
| Concentration RSD | 1.2 % | 0.7 % | 0.6 % | 0.4 % | 0.7 % | 0.6 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 4:54:05 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 | -0.0021 ppm | 0.0010 ppm | 0.0001 ppm | 0.0000 ppm | -0.0006 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0000 ppm | -0.0014 ppm | 0.0003 ppm | 0.0000 ppm | 0.0000 ppm | -0.0024 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0030 ppm | -0.0012 ppm | 0.0013 ppm | 0.0001 ppm | 0.0000 ppm | 0.0001 ppm |
| Concentration per Run 3 | 0.0001 ppm | -0.0023 ppm | -0.0036 ppm | 0.0014 ppm | 0.0000 ppm | 0.0000 ppm | 0.0006 ppm |
| Recovery Percentage 1 | 0.486 % | -1.737 % | -41.647 % | 3.300 % | 0.513 % | 0.240 % | -0.571 % |
| Concentration RSD | 600.1 % | 89.6 % | 64.7 % | 63.4 % | 46.0 % | 19.2 % | 283.5 % |

| | 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 | -0.0001 ppm | 0.0000 ppm | -0.0002 ppm | 0.0012 ppm | 0.0389 ppm | -0.0002 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0000 ppm | 0.0004 ppm | -0.0002 ppm | 0.0009 ppm | 0.0374 ppm | -0.0004 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0002 ppm | 0.0002 ppm | -0.0002 ppm | 0.0013 ppm | 0.0437 ppm | 0.0000 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0002 ppm | -0.0005 ppm | -0.0003 ppm | 0.0014 ppm | 0.0357 ppm | -0.0001 ppm |
| Recovery Percentage 1 | 0.240 % | -1.081 % | 0.343 % | -2.493 % | 2.384 % | 1.557 % | -1.871 % |
| Concentration RSD | 922.3 % | 89.3 % | 1,264.9 % | 32.2 % | 20.8 % | 10.8 % | 124.7 % |

| | 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 | -0.0010 ppm | 0.0000 ppm | 0.0024 ppm | 0.0832 ppm | 0.0003 ppm | 0.0000 ppm | 0.0016 ppm |
| Concentration per Run 1 | -0.0023 ppm | 0.0001 ppm | 0.0027 ppm | 0.0828 ppm | 0.0000 ppm | 0.0002 ppm | 0.0010 ppm |
| Concentration per Run 2 | -0.0010 ppm | 0.0000 ppm | 0.0024 ppm | 0.0846 ppm | 0.0005 ppm | -0.0007 ppm | 0.0017 ppm |
| Concentration per Run 3 | 0.0004 ppm | 0.0000 ppm | 0.0021 ppm | 0.0823 ppm | 0.0003 ppm | 0.0005 ppm | 0.0020 ppm |
| Recovery Percentage 1 | -0.963 % | 0.475 % | 4.825 % | 4.162 % | 1.086 % | 0.141 % | 3.139 % |
| Concentration RSD | 138.4 % | 171.1 % | 11.6 % | 1.5 % | 89.5 % | 4,525.5 % | 30.8 % |

| | 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 | 0.0003 ppm | 0.0006 ppm | 0.0001 ppm | -0.0002 ppm | -0.0003 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0011 ppm | 0.0017 ppm | 0.0005 ppm | 0.0001 ppm | -0.0004 ppm | -0.0006 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0021 ppm | -0.0002 ppm | 0.0009 ppm | 0.0001 ppm | -0.0002 ppm | -0.0003 ppm | 0.0001 ppm |
| Concentration per Run 3 | -0.0009 ppm | -0.0005 ppm | 0.0004 ppm | 0.0001 ppm | -0.0001 ppm | 0.0001 ppm | 0.0001 ppm |
| Recovery Percentage 1 | -6.059 % | 0.066 % | 1.231 % | 0.822 % | -2.212 % | -1.442 % | 0.723 % |
| Concentration RSD | 265.4 % | 367.9 % | 47.1 % | 14.9 % | 63.0 % | 126.6 % | 30.1 % |

| | 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 | -0.0004 ppm | 96.8840 % | 97.3949 % | 96.0995 % | 97.4781 % | 98.6238 % | 97.6412 % |
| Concentration per Run 1 | -0.0004 ppm | 96.4117 % | 97.3003 % | 95.2678 % | 97.9425 % | 98.6138 % | 97.3027 % |
| Concentration per Run 2 | -0.0003 ppm | 97.1170 % | 97.7346 % | 96.4093 % | 97.6579 % | 98.8471 % | 97.8340 % |
| Concentration per Run 3 | -0.0005 ppm | 97.1233 % | 97.1497 % | 96.6213 % | 96.8338 % | 98.4105 % | 97.7869 % |
| Recovery Percentage 1 | -7.525 % | | | | | | |
| Concentration RSD | 24.1 % | 0.4 % | 0.3 % | 0.8 % | 0.6 % | 0.2 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012713-1 WG2012713
Analysis started at: 12/23/2024 5:09:31 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 | 0.0000 ppm | 0.0077 ppm | -0.0012 ppm | 0.0007 ppm | 0.0002 ppm | 0.0000 ppm | 0.0264 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0031 ppm | -0.0016 ppm | -0.0001 ppm | 0.0001 ppm | 0.0000 ppm | 0.0252 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0115 ppm | -0.0002 ppm | 0.0009 ppm | 0.0002 ppm | 0.0000 ppm | 0.0263 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0085 ppm | -0.0018 ppm | 0.0015 ppm | 0.0002 ppm | 0.0000 ppm | 0.0275 ppm |
| Recovery Percentage 1 | -0.127 % | 7.690 % | -23.938 % | 2.447 % | 1.692 % | 0.098 % | 26.356 % |
| Concentration RSD | 1,176.1 % | 55.0 % | 69.0 % | 109.7 % | 22.5 % | 250.6 % | 4.5 % |

| | 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 | -0.0003 ppm | 0.0002 ppm | 0.0003 ppm | 0.1383 ppm | 0.0305 ppm | -0.0006 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0003 ppm | 0.0001 ppm | 0.0004 ppm | 0.1398 ppm | 0.0241 ppm | -0.0005 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0004 ppm | 0.0001 ppm | 0.0003 ppm | 0.1381 ppm | 0.0391 ppm | -0.0006 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0003 ppm | 0.0002 ppm | 0.0002 ppm | 0.1368 ppm | 0.0282 ppm | -0.0006 ppm |
| Recovery Percentage 1 | -1.833 % | -3.181 % | 1.649 % | 3.175 % | 276.501 % | 1.219 % | -5.632 % |
| Concentration RSD | 52.5 % | 16.9 % | 39.7 % | 24.6 % | 1.1 % | 25.3 % | 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 | 0.0039 ppm | 0.0013 ppm | 0.0000 ppm | 0.0601 ppm | 0.0001 ppm | -0.0001 ppm | 0.0029 ppm |
| Concentration per Run 1 | 0.0041 ppm | 0.0011 ppm | -0.0003 ppm | 0.0595 ppm | 0.0000 ppm | 0.0004 ppm | 0.0009 ppm |
| Concentration per Run 2 | 0.0041 ppm | 0.0014 ppm | 0.0003 ppm | 0.0599 ppm | 0.0004 ppm | -0.0008 ppm | 0.0047 ppm |
| Concentration per Run 3 | 0.0034 ppm | 0.0012 ppm | 0.0000 ppm | 0.0608 ppm | -0.0001 ppm | 0.0000 ppm | 0.0031 ppm |
| Recovery Percentage 1 | 3.901 % | 12.655 % | 0.002 % | 3.003 % | 0.491 % | -1.210 % | 5.780 % |
| Concentration RSD | 10.1 % | 11.3 % | 34,363.2 % | 1.1 % | 228.4 % | 487.0 % | 66.1 % |

| | 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 | 0.0092 ppm | 0.0005 ppm | 0.0001 ppm | 0.0000 ppm | -0.0006 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0011 ppm | 0.0087 ppm | 0.0003 ppm | 0.0001 ppm | 0.0000 ppm | -0.0004 ppm | 0.0000 ppm |
| Concentration per Run 2 | -0.0008 ppm | 0.0098 ppm | 0.0008 ppm | 0.0001 ppm | 0.0001 ppm | -0.0006 ppm | 0.0002 ppm |
| Concentration per Run 3 | -0.0022 ppm | 0.0092 ppm | 0.0005 ppm | 0.0001 ppm | 0.0000 ppm | -0.0008 ppm | 0.0001 ppm |
| Recovery Percentage 1 | -13.667 % | 1.847 % | 1.005 % | 1.008 % | 0.338 % | -2.996 % | 1.160 % |
| Concentration RSD | 54.1 % | 6.3 % | 47.1 % | 29.1 % | 116.7 % | 29.6 % | 54.2 % |

| | 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 | 0.0013 ppm | 103.9608 % | 99.9392 % | 102.5404 % | 101.1809 % | 99.5332 % | 99.9866 % |
| Concentration per Run 1 | 0.0014 ppm | 103.3835 % | 100.6145 % | 101.9456 % | 101.3113 % | 99.7187 % | 99.6323 % |
| Concentration per Run 2 | 0.0014 ppm | 103.8536 % | 99.5436 % | 102.6680 % | 100.5801 % | 99.5048 % | 100.3004 % |
| Concentration per Run 3 | 0.0012 ppm | 104.6453 % | 99.6593 % | 103.0076 % | 101.6513 % | 99.3760 % | 100.0272 % |
| Recovery Percentage 1 | 26.807 % | | | | | | |
| Concentration RSD | 7.7 % | 0.6 % | 0.6 % | 0.5 % | 0.5 % | 0.2 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012713-2d2 WG2012713
Analysis started at: 12/23/2024 5:14:15 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 | 0.3303 ppm | 18.6721 ppm | 1.0901 ppm | 0.8292 ppm | 1.1486 ppm | 0.6313 ppm | 18.9558 ppm |
| Concentration per Run 1 | 0.3324 ppm | 18.6848 ppm | 1.0899 ppm | 0.8330 ppm | 1.1456 ppm | 0.6316 ppm | 18.9796 ppm |
| Concentration per Run 2 | 0.3314 ppm | 18.7848 ppm | 1.0841 ppm | 0.8332 ppm | 1.1534 ppm | 0.6330 ppm | 19.0420 ppm |
| Concentration per Run 3 | 0.3271 ppm | 18.5467 ppm | 1.0962 ppm | 0.8216 ppm | 1.1468 ppm | 0.6293 ppm | 18.8457 ppm |
| Concentration RSD | 0.8 % | 0.6 % | 0.6 % | 0.8 % | 0.4 % | 0.3 % | 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 | 0.7867 ppm | 0.3175 ppm | 0.6866 ppm | 0.8069 ppm | 21.8750 ppm | 4.6828 ppm | 0.5489 ppm |
| Concentration per Run 1 | 0.7963 ppm | 0.3203 ppm | 0.6940 ppm | 0.8060 ppm | 21.8717 ppm | 4.6439 ppm | 0.5425 ppm |
| Concentration per Run 2 | 0.7847 ppm | 0.3175 ppm | 0.6865 ppm | 0.8142 ppm | 21.9407 ppm | 4.7299 ppm | 0.5536 ppm |
| Concentration per Run 3 | 0.7790 ppm | 0.3148 ppm | 0.6793 ppm | 0.8005 ppm | 21.8126 ppm | 4.6747 ppm | 0.5507 ppm |
| Concentration RSD | 1.1 % | 0.9 % | 1.1 % | 0.9 % | 0.3 % | 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 | 5.7571 ppm | 2.0195 ppm | 0.5276 ppm | 7.5228 ppm | 1.2116 ppm | 0.3698 ppm | 0.8325 ppm |
| Concentration per Run 1 | 5.7998 ppm | 2.0222 ppm | 0.5313 ppm | 7.4647 ppm | 1.2254 ppm | 0.3710 ppm | 0.8370 ppm |
| Concentration per Run 2 | 5.7716 ppm | 2.0228 ppm | 0.5261 ppm | 7.6327 ppm | 1.2088 ppm | 0.3697 ppm | 0.8356 ppm |
| Concentration per Run 3 | 5.6999 ppm | 2.0134 ppm | 0.5254 ppm | 7.4711 ppm | 1.2006 ppm | 0.3686 ppm | 0.8249 ppm |
| Concentration RSD | 0.9 % | 0.3 % | 0.6 % | 1.3 % | 1.0 % | 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 | 0.5792 ppm | 3.4963 ppm | 0.3032 ppm | 0.5411 ppm | 1.1063 ppm | 0.8028 ppm | 0.3985 ppm |
| Concentration per Run 1 | 0.5782 ppm | 3.5441 ppm | 0.3066 ppm | 0.5397 ppm | 1.1139 ppm | 0.8058 ppm | 0.4014 ppm |
| Concentration per Run 2 | 0.5773 ppm | 3.5035 ppm | 0.3033 ppm | 0.5437 ppm | 1.1098 ppm | 0.7978 ppm | 0.3980 ppm |
| Concentration per Run 3 | 0.5822 ppm | 3.4413 ppm | 0.2995 ppm | 0.5397 ppm | 1.0952 ppm | 0.8049 ppm | 0.3961 ppm |
| Concentration RSD | 0.4 % | 1.5 % | 1.2 % | 0.4 % | 0.9 % | 0.5 % | 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 | 0.6199 ppm | 98.7498 % | 100.1569 % | 90.6748 % | 101.1711 % | 105.3039 % | 101.0988 % |
| Concentration per Run 1 | 0.6308 ppm | 98.1774 % | 99.9987 % | 90.4583 % | 101.4764 % | 104.9860 % | 101.1609 % |
| Concentration per Run 2 | 0.6166 ppm | 98.6391 % | 99.8415 % | 90.8192 % | 100.7711 % | 105.4490 % | 101.0907 % |
| Concentration per Run 3 | 0.6124 ppm | 99.4328 % | 100.6304 % | 90.7470 % | 101.2657 % | 105.4767 % | 101.0447 % |
| Concentration RSD | 1.6 % | 0.6 % | 0.4 % | 0.2 % | 0.4 % | 0.3 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012713-3d2 WG2012713
Analysis started at: 12/23/2024 5:18:41 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 | 0.3455 ppm | 19.3309 ppm | 1.1346 ppm | 0.8742 ppm | 1.2165 ppm | 0.6592 ppm | 19.7906 ppm |
| Concentration per Run 1 | 0.3488 ppm | 19.2458 ppm | 1.1408 ppm | 0.8827 ppm | 1.2055 ppm | 0.6566 ppm | 19.8362 ppm |
| Concentration per Run 2 | 0.3446 ppm | 19.5817 ppm | 1.1349 ppm | 0.8703 ppm | 1.2184 ppm | 0.6599 ppm | 19.8251 ppm |
| Concentration per Run 3 | 0.3431 ppm | 19.1651 ppm | 1.1283 ppm | 0.8696 ppm | 1.2257 ppm | 0.6612 ppm | 19.7106 ppm |
| Concentration RSD | 0.9 % | 1.1 % | 0.6 % | 0.8 % | 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 | 0.8221 ppm | 0.3350 ppm | 0.7286 ppm | 0.8712 ppm | 22.5204 ppm | 4.8207 ppm | 0.5811 ppm |
| Concentration per Run 1 | 0.8343 ppm | 0.3391 ppm | 0.7346 ppm | 0.8772 ppm | 22.4285 ppm | 4.7697 ppm | 0.5736 ppm |
| Concentration per Run 2 | 0.8137 ppm | 0.3321 ppm | 0.7230 ppm | 0.8713 ppm | 22.5450 ppm | 4.8322 ppm | 0.5835 ppm |
| Concentration per Run 3 | 0.8182 ppm | 0.3338 ppm | 0.7281 ppm | 0.8650 ppm | 22.5876 ppm | 4.8603 ppm | 0.5861 ppm |
| Concentration RSD | 1.3 % | 1.1 % | 0.8 % | 0.7 % | 0.4 % | 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 | 6.0052 ppm | 2.0991 ppm | 0.5635 ppm | 7.5062 ppm | 1.2811 ppm | 0.3885 ppm | 0.8768 ppm |
| Concentration per Run 1 | 6.0592 ppm | 2.0998 ppm | 0.5650 ppm | 7.3812 ppm | 1.2940 ppm | 0.3925 ppm | 0.8888 ppm |
| Concentration per Run 2 | 5.9750 ppm | 2.0998 ppm | 0.5585 ppm | 7.6188 ppm | 1.2682 ppm | 0.3873 ppm | 0.8720 ppm |
| Concentration per Run 3 | 5.9813 ppm | 2.0977 ppm | 0.5670 ppm | 7.5186 ppm | 1.2812 ppm | 0.3857 ppm | 0.8697 ppm |
| Concentration RSD | 0.8 % | 0.1 % | 0.8 % | 1.6 % | 1.0 % | 0.9 % | 1.2 % |

| | 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 | 0.6066 ppm | 3.6931 ppm | 0.3164 ppm | 0.5625 ppm | 1.1086 ppm | 0.8195 ppm | 0.4231 ppm |
| Concentration per Run 1 | 0.6101 ppm | 3.7508 ppm | 0.3211 ppm | 0.5580 ppm | 1.1117 ppm | 0.8264 ppm | 0.4266 ppm |
| Concentration per Run 2 | 0.6077 ppm | 3.6419 ppm | 0.3114 ppm | 0.5643 ppm | 1.1088 ppm | 0.8162 ppm | 0.4214 ppm |
| Concentration per Run 3 | 0.6019 ppm | 3.6865 ppm | 0.3167 ppm | 0.5651 ppm | 1.1054 ppm | 0.8160 ppm | 0.4212 ppm |
| Concentration RSD | 0.7 % | 1.5 % | 1.5 % | 0.7 % | 0.3 % | 0.7 % | 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 | 0.6529 ppm | 98.2914 % | 100.4372 % | 89.9535 % | 101.2217 % | 106.3848 % | 101.1730 % |
| Concentration per Run 1 | 0.6616 ppm | 97.4817 % | 100.5368 % | 89.3322 % | 100.8103 % | 106.1654 % | 101.0087 % |
| Concentration per Run 2 | 0.6435 ppm | 98.8737 % | 100.5263 % | 90.6180 % | 101.7946 % | 106.6117 % | 101.3904 % |
| Concentration per Run 3 | 0.6538 ppm | 98.5186 % | 100.2484 % | 89.9103 % | 101.0602 % | 106.3772 % | 101.1200 % |
| Concentration RSD | 1.4 % | 0.7 % | 0.2 % | 0.7 % | 0.5 % | 0.2 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474309-01d2 WG2012713
Analysis started at: 12/23/2024 5:23:07 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 | 0.0021 ppm | 89.6371 ppm | 0.0439 ppm | 0.0326 ppm | 0.9122 ppm | 0.0038 ppm | 83.4000 ppm |
| Concentration per Run 1 | 0.0024 ppm | 90.3778 ppm | 0.0425 ppm | 0.0337 ppm | 0.9221 ppm | 0.0039 ppm | 83.4179 ppm |
| Concentration per Run 2 | 0.0022 ppm | 89.0861 ppm | 0.0445 ppm | 0.0314 ppm | 0.9088 ppm | 0.0038 ppm | 83.3781 ppm |
| Concentration per Run 3 | 0.0018 ppm | 89.4474 ppm | 0.0448 ppm | 0.0328 ppm | 0.9056 ppm | 0.0038 ppm | 83.4039 ppm |
| Concentration RSD | 14.2 % | 0.7 % | 2.8 % | 3.6 % | 1.0 % | 1.5 % | 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 | 0.0015 ppm | 0.0661 ppm | 0.2001 ppm | 1.2094 ppm | 209.8690 ppm | 21.7335 ppm | 0.1781 ppm |
| Concentration per Run 1 | 0.0017 ppm | 0.0665 ppm | 0.2023 ppm | 1.2198 ppm | 209.5045 ppm | 21.7405 ppm | 0.1804 ppm |
| Concentration per Run 2 | 0.0015 ppm | 0.0658 ppm | 0.1998 ppm | 1.2084 ppm | 210.3327 ppm | 21.7768 ppm | 0.1768 ppm |
| Concentration per Run 3 | 0.0012 ppm | 0.0659 ppm | 0.1983 ppm | 1.1999 ppm | 209.7698 ppm | 21.6832 ppm | 0.1770 ppm |
| Concentration RSD | 16.7 % | 0.6 % | 1.0 % | 0.8 % | 0.2 % | 0.2 % | 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 | 40.1757 ppm | 2.7680 ppm | 0.0084 ppm | 5.2551 ppm | 0.1437 ppm | 0.8008 ppm | 0.0148 ppm |
| Concentration per Run 1 | 40.4322 ppm | 2.7685 ppm | 0.0083 ppm | 5.2602 ppm | 0.1444 ppm | 0.8066 ppm | 0.0165 ppm |
| Concentration per Run 2 | 40.1652 ppm | 2.7714 ppm | 0.0082 ppm | 5.2645 ppm | 0.1445 ppm | 0.7999 ppm | 0.0122 ppm |
| Concentration per Run 3 | 39.9297 ppm | 2.7641 ppm | 0.0086 ppm | 5.2405 ppm | 0.1421 ppm | 0.7960 ppm | 0.0157 ppm |
| Concentration RSD | 0.6 % | 0.1 % | 2.6 % | 0.2 % | 0.9 % | 0.7 % | 15.4 % |

| | 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 | 0.0007 ppm | 5.4171 ppm | 0.0628 ppm | 0.6447 ppm | 4.8125 ppm | 0.0013 ppm | 0.2466 ppm |
| Concentration per Run 1 | 0.0013 ppm | 5.4850 ppm | 0.0627 ppm | 0.6489 ppm | 4.8492 ppm | 0.0015 ppm | 0.2469 ppm |
| Concentration per Run 2 | 0.0012 ppm | 5.4078 ppm | 0.0636 ppm | 0.6439 ppm | 4.8049 ppm | 0.0009 ppm | 0.2452 ppm |
| Concentration per Run 3 | -0.0005 ppm | 5.3585 ppm | 0.0621 ppm | 0.6412 ppm | 4.7834 ppm | 0.0015 ppm | 0.2475 ppm |
| Concentration RSD | 149.6 % | 1.2 % | 1.3 % | 0.6 % | 0.7 % | 27.6 % | 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 | 0.6880 ppm | 97.5389 % | 100.9364 % | 76.7421 % | 105.1200 % | 114.3769 % | 106.1920 % |
| Concentration per Run 1 | 0.6946 ppm | 97.1307 % | 100.9453 % | 76.4063 % | 104.8649 % | 114.0711 % | 106.1013 % |
| Concentration per Run 2 | 0.6866 ppm | 97.3009 % | 100.7520 % | 76.7577 % | 104.6421 % | 114.4042 % | 106.5605 % |
| Concentration per Run 3 | 0.6827 ppm | 98.1849 % | 101.1119 % | 77.0622 % | 105.8530 % | 114.6554 % | 105.9141 % |
| Concentration RSD | 0.9 % | 0.6 % | 0.2 % | 0.4 % | 0.6 % | 0.3 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474309-02d2 WG2012713
Analysis started at: 12/23/2024 5:27:34 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 | 0.0016 ppm | 81.9675 ppm | 0.0328 ppm | 0.0168 ppm | 0.3669 ppm | 0.0034 ppm | 103.3540 ppm |
| Concentration per Run 1 | 0.0018 ppm | 81.1073 ppm | 0.0319 ppm | 0.0173 ppm | 0.3646 ppm | 0.0034 ppm | 103.4862 ppm |
| Concentration per Run 2 | 0.0013 ppm | 81.7411 ppm | 0.0331 ppm | 0.0169 ppm | 0.3661 ppm | 0.0034 ppm | 103.5447 ppm |
| Concentration per Run 3 | 0.0017 ppm | 83.0541 ppm | 0.0334 ppm | 0.0161 ppm | 0.3700 ppm | 0.0035 ppm | 103.0310 ppm |
| Concentration RSD | 16.2 % | 1.2 % | 2.3 % | 3.6 % | 0.8 % | 2.2 % | 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 | 0.0008 ppm | 0.0683 ppm | 0.1285 ppm | 0.3776 ppm | 153.2604 ppm | 7.2703 ppm | 0.1229 ppm |
| Concentration per Run 1 | 0.0009 ppm | 0.0684 ppm | 0.1291 ppm | 0.3799 ppm | 154.3092 ppm | 7.2814 ppm | 0.1225 ppm |
| Concentration per Run 2 | 0.0007 ppm | 0.0684 ppm | 0.1283 ppm | 0.3760 ppm | 153.6699 ppm | 7.2546 ppm | 0.1230 ppm |
| Concentration per Run 3 | 0.0008 ppm | 0.0682 ppm | 0.1280 ppm | 0.3768 ppm | 151.8023 ppm | 7.2748 ppm | 0.1232 ppm |
| Concentration RSD | 15.1 % | 0.2 % | 0.5 % | 0.5 % | 0.8 % | 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 | 34.6217 ppm | 3.2413 ppm | 0.0063 ppm | 3.8810 ppm | 0.1087 ppm | 0.4611 ppm | 0.0053 ppm |
| Concentration per Run 1 | 34.7978 ppm | 3.2506 ppm | 0.0062 ppm | 3.8475 ppm | 0.1074 ppm | 0.4659 ppm | 0.0053 ppm |
| Concentration per Run 2 | 34.6178 ppm | 3.2503 ppm | 0.0064 ppm | 3.8853 ppm | 0.1102 ppm | 0.4603 ppm | 0.0040 ppm |
| Concentration per Run 3 | 34.4494 ppm | 3.2229 ppm | 0.0063 ppm | 3.9101 ppm | 0.1085 ppm | 0.4571 ppm | 0.0066 ppm |
| Concentration RSD | 0.5 % | 0.5 % | 1.7 % | 0.8 % | 1.3 % | 1.0 % | 25.2 % |

| | 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 | -0.0016 ppm | 10.2805 ppm | 0.0316 ppm | 0.5665 ppm | 3.3329 ppm | 0.0009 ppm | 0.2230 ppm |
| Concentration per Run 1 | -0.0019 ppm | 10.5016 ppm | 0.0320 ppm | 0.5649 ppm | 3.3555 ppm | 0.0003 ppm | 0.2230 ppm |
| Concentration per Run 2 | 0.0000 ppm | 10.1900 ppm | 0.0310 ppm | 0.5651 ppm | 3.3186 ppm | 0.0008 ppm | 0.2238 ppm |
| Concentration per Run 3 | -0.0028 ppm | 10.1497 ppm | 0.0319 ppm | 0.5695 ppm | 3.3245 ppm | 0.0015 ppm | 0.2222 ppm |
| Concentration RSD | 94.4 % | 1.9 % | 1.7 % | 0.4 % | 0.6 % | 72.8 % | 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 | 0.5348 ppm | 97.8589 % | 101.2750 % | 79.1873 % | 110.2220 % | 119.3548 % | 110.1174 % |
| Concentration per Run 1 | 0.5337 ppm | 97.4465 % | 100.8702 % | 78.7936 % | 109.6249 % | 118.7854 % | 110.0150 % |
| Concentration per Run 2 | 0.5389 ppm | 98.0507 % | 101.5753 % | 79.1794 % | 110.7782 % | 120.0781 % | 110.1520 % |
| Concentration per Run 3 | 0.5319 ppm | 98.0796 % | 101.3794 % | 79.5888 % | 110.2628 % | 119.2009 % | 110.1853 % |
| Concentration RSD | 0.7 % | 0.4 % | 0.4 % | 0.5 % | 0.5 % | 0.6 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474309-03d2 WG2012713
Analysis started at: 12/23/2024 5:32:00 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 | 0.0013 ppm | 70.8304 ppm | 0.0251 ppm | 0.0127 ppm | 0.4998 ppm | 0.0028 ppm | 71.2635 ppm |
| Concentration per Run 1 | 0.0014 ppm | 71.0720 ppm | 0.0262 ppm | 0.0123 ppm | 0.4992 ppm | 0.0028 ppm | 71.4295 ppm |
| Concentration per Run 2 | 0.0012 ppm | 70.9486 ppm | 0.0246 ppm | 0.0124 ppm | 0.5015 ppm | 0.0028 ppm | 70.9917 ppm |
| Concentration per Run 3 | 0.0013 ppm | 70.4706 ppm | 0.0244 ppm | 0.0132 ppm | 0.4988 ppm | 0.0028 ppm | 71.3692 ppm |
| Concentration RSD | 6.6 % | 0.4 % | 3.8 % | 4.0 % | 0.3 % | 1.2 % | 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 | 0.0008 ppm | 0.0500 ppm | 0.0942 ppm | 0.3007 ppm | 126.6782 ppm | 5.8156 ppm | 0.0973 ppm |
| Concentration per Run 1 | 0.0008 ppm | 0.0503 ppm | 0.0957 ppm | 0.3009 ppm | 126.5716 ppm | 5.8379 ppm | 0.0976 ppm |
| Concentration per Run 2 | 0.0008 ppm | 0.0502 ppm | 0.0933 ppm | 0.3012 ppm | 126.5088 ppm | 5.8515 ppm | 0.0984 ppm |
| Concentration per Run 3 | 0.0008 ppm | 0.0494 ppm | 0.0937 ppm | 0.3001 ppm | 126.9541 ppm | 5.7575 ppm | 0.0957 ppm |
| Concentration RSD | 1.6 % | 1.0 % | 1.4 % | 0.2 % | 0.2 % | 0.9 % | 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 | 30.5969 ppm | 2.6635 ppm | 0.0029 ppm | 3.0239 ppm | 0.0836 ppm | 0.5328 ppm | 0.0088 ppm |
| Concentration per Run 1 | 30.8153 ppm | 2.6721 ppm | 0.0031 ppm | 3.0394 ppm | 0.0838 ppm | 0.5324 ppm | 0.0096 ppm |
| Concentration per Run 2 | 30.4174 ppm | 2.6574 ppm | 0.0024 ppm | 3.0482 ppm | 0.0828 ppm | 0.5322 ppm | 0.0093 ppm |
| Concentration per Run 3 | 30.5580 ppm | 2.6611 ppm | 0.0030 ppm | 2.9841 ppm | 0.0841 ppm | 0.5337 ppm | 0.0075 ppm |
| Concentration RSD | 0.7 % | 0.3 % | 12.6 % | 1.1 % | 0.8 % | 0.1 % | 13.0 % |

| | 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 | -0.0015 ppm | 5.2178 ppm | 0.0367 ppm | 0.5016 ppm | 3.1769 ppm | 0.0009 ppm | 0.1841 ppm |
| Concentration per Run 1 | -0.0018 ppm | 5.2841 ppm | 0.0372 ppm | 0.5005 ppm | 3.2027 ppm | 0.0006 ppm | 0.1854 ppm |
| Concentration per Run 2 | 0.0000 ppm | 5.1794 ppm | 0.0354 ppm | 0.5037 ppm | 3.1678 ppm | 0.0018 ppm | 0.1840 ppm |
| Concentration per Run 3 | -0.0027 ppm | 5.1899 ppm | 0.0374 ppm | 0.5005 ppm | 3.1601 ppm | 0.0003 ppm | 0.1828 ppm |
| Concentration RSD | 93.5 % | 1.1 % | 3.1 % | 0.4 % | 0.7 % | 89.9 % | 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 | 0.4096 ppm | 98.1584 % | 101.0723 % | 81.0826 % | 108.0759 % | 116.4356 % | 108.4962 % |
| Concentration per Run 1 | 0.4151 ppm | 98.0552 % | 101.2033 % | 81.1288 % | 108.3224 % | 116.7335 % | 108.6108 % |
| Concentration per Run 2 | 0.4064 ppm | 98.3568 % | 101.3477 % | 81.2438 % | 108.6235 % | 117.1474 % | 108.6550 % |
| Concentration per Run 3 | 0.4072 ppm | 98.0633 % | 100.6658 % | 80.8752 % | 107.2819 % | 115.4260 % | 108.2228 % |
| Concentration RSD | 1.2 % | 0.2 % | 0.4 % | 0.2 % | 0.7 % | 0.8 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474309-04d2 WG2012713
Analysis started at: 12/23/2024 5:36:27 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 | 0.0046 ppm | 64.0946 ppm | 0.3984 ppm | 0.0331 ppm | 0.7035 ppm | 0.0033 ppm | 317.9364 ppm |
| Concentration per Run 1 | 0.0047 ppm | 63.8973 ppm | 0.3970 ppm | 0.0323 ppm | 0.7039 ppm | 0.0033 ppm | 318.2419 ppm |
| Concentration per Run 2 | 0.0046 ppm | 64.4585 ppm | 0.3998 ppm | 0.0334 ppm | 0.7043 ppm | 0.0033 ppm | 318.9939 ppm |
| Concentration per Run 3 | 0.0044 ppm | 63.9280 ppm | 0.3986 ppm | 0.0336 ppm | 0.7023 ppm | 0.0032 ppm | 316.5734 ppm |
| Concentration RSD | 4.2 % | 0.5 % | 0.3 % | 2.1 % | 0.1 % | 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 | 0.0255 ppm | 0.0859 ppm | 0.1388 ppm | 0.8151 ppm | 483.5243 ppm | 7.6354 ppm | 0.1128 ppm |
| Concentration per Run 1 | 0.0256 ppm | 0.0869 ppm | 0.1399 ppm | 0.8173 ppm | 484.0775 ppm | 7.6062 ppm | 0.1138 ppm |
| Concentration per Run 2 | 0.0254 ppm | 0.0851 ppm | 0.1379 ppm | 0.8153 ppm | 484.9954 ppm | 7.6521 ppm | 0.1139 ppm |
| Concentration per Run 3 | 0.0254 ppm | 0.0858 ppm | 0.1387 ppm | 0.8126 ppm | 481.5001 ppm | 7.6477 ppm | 0.1107 ppm |
| Concentration RSD | 0.3 % | 1.1 % | 0.7 % | 0.3 % | 0.4 % | 0.3 % | 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 | 39.9441 ppm | 3.5728 ppm | 0.0372 ppm | 8.6381 ppm | 0.1931 ppm | 6.0943 ppm | 0.1044 ppm |
| Concentration per Run 1 | 40.2312 ppm | 3.5837 ppm | 0.0365 ppm | 8.5732 ppm | 0.1941 ppm | 6.1188 ppm | 0.1031 ppm |
| Concentration per Run 2 | 39.7717 ppm | 3.5802 ppm | 0.0373 ppm | 8.6911 ppm | 0.1934 ppm | 6.0858 ppm | 0.1049 ppm |
| Concentration per Run 3 | 39.8295 ppm | 3.5546 ppm | 0.0379 ppm | 8.6501 ppm | 0.1917 ppm | 6.0783 ppm | 0.1052 ppm |
| Concentration RSD | 0.6 % | 0.4 % | 1.9 % | 0.7 % | 0.6 % | 0.4 % | 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 | 0.0794 ppm | 7.9015 ppm | 4.4883 ppm | 0.5503 ppm | 2.5488 ppm | 0.0008 ppm | 0.2189 ppm |
| Concentration per Run 1 | 0.0794 ppm | 7.9924 ppm | 4.5110 ppm | 0.5515 ppm | 2.5640 ppm | -0.0001 ppm | 0.2194 ppm |
| Concentration per Run 2 | 0.0765 ppm | 7.8773 ppm | 4.4737 ppm | 0.5516 ppm | 2.5428 ppm | 0.0021 ppm | 0.2187 ppm |
| Concentration per Run 3 | 0.0823 ppm | 7.8348 ppm | 4.4802 ppm | 0.5478 ppm | 2.5395 ppm | 0.0006 ppm | 0.2186 ppm |
| Concentration RSD | 3.7 % | 1.0 % | 0.4 % | 0.4 % | 0.5 % | 130.6 % | 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 | 9.2260 ppm | 91.7456 % | 96.5021 % | 67.8476 % | 98.2997 % | 108.4369 % | 95.6778 % |
| Concentration per Run 1 | 9.3012 ppm | 91.6389 % | 96.5544 % | 67.4867 % | 98.1142 % | 108.6236 % | 95.6274 % |
| Concentration per Run 2 | 9.1605 ppm | 92.0017 % | 96.1888 % | 68.1283 % | 98.6671 % | 108.2470 % | 96.0017 % |
| Concentration per Run 3 | 9.2164 ppm | 91.5961 % | 96.7631 % | 67.9276 % | 98.1179 % | 108.4400 % | 95.4044 % |
| Concentration RSD | 0.8 % | 0.2 % | 0.3 % | 0.5 % | 0.3 % | 0.2 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474309-05d2 WG2012713
Analysis started at: 12/23/2024 5:40:54 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 | 0.0018 ppm | 51.4388 ppm | 0.0247 ppm | 0.0089 ppm | 0.5090 ppm | 0.0019 ppm | 167.6780 ppm |
| Concentration per Run 1 | 0.0019 ppm | 50.6819 ppm | 0.0241 ppm | 0.0089 ppm | 0.5049 ppm | 0.0019 ppm | 168.2872 ppm |
| Concentration per Run 2 | 0.0017 ppm | 51.3802 ppm | 0.0249 ppm | 0.0086 ppm | 0.5086 ppm | 0.0019 ppm | 167.4924 ppm |
| Concentration per Run 3 | 0.0018 ppm | 52.2544 ppm | 0.0252 ppm | 0.0093 ppm | 0.5135 ppm | 0.0020 ppm | 167.2544 ppm |
| Concentration RSD | 4.8 % | 1.5 % | 2.2 % | 4.0 % | 0.8 % | 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 | 0.0405 ppm | 0.0850 ppm | 0.1425 ppm | 114.1552 ppm | 4.4731 ppm | 0.0805 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0402 ppm | 0.0851 ppm | 0.1428 ppm | 115.0450 ppm | 4.4844 ppm | 0.0815 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0405 ppm | 0.0852 ppm | 0.1412 ppm | 114.5594 ppm | 4.4575 ppm | 0.0823 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0407 ppm | 0.0847 ppm | 0.1436 ppm | 112.8613 ppm | 4.4773 ppm | 0.0779 ppm |
| Concentration RSD | 46.1 % | 0.6 % | 0.4 % | 0.8 % | 1.0 % | 0.3 % | 2.9 % |

| | 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 | 28.7231 ppm | 2.1617 ppm | 0.0069 ppm | 3.9867 ppm | 0.0773 ppm | 5.8592 ppm | 0.0081 ppm |
| Concentration per Run 1 | 28.7505 ppm | 2.1720 ppm | 0.0069 ppm | 3.9432 ppm | 0.0770 ppm | 5.8304 ppm | 0.0072 ppm |
| Concentration per Run 2 | 28.8820 ppm | 2.1681 ppm | 0.0068 ppm | 3.9879 ppm | 0.0774 ppm | 5.8840 ppm | 0.0099 ppm |
| Concentration per Run 3 | 28.5370 ppm | 2.1452 ppm | 0.0071 ppm | 4.0291 ppm | 0.0774 ppm | 5.8633 ppm | 0.0071 ppm |
| Concentration RSD | 0.6 % | 0.7 % | 1.9 % | 1.1 % | 0.3 % | 0.5 % | 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 | 0.0004 ppm | 3.7786 ppm | 0.3858 ppm | 0.2895 ppm | 2.4704 ppm | -0.0001 ppm | 0.1439 ppm |
| Concentration per Run 1 | -0.0001 ppm | 3.8404 ppm | 0.3857 ppm | 0.2894 ppm | 2.4760 ppm | 0.0007 ppm | 0.1446 ppm |
| Concentration per Run 2 | 0.0018 ppm | 3.6936 ppm | 0.3889 ppm | 0.2904 ppm | 2.4739 ppm | -0.0003 ppm | 0.1444 ppm |
| Concentration per Run 3 | -0.0006 ppm | 3.8018 ppm | 0.3829 ppm | 0.2886 ppm | 2.4612 ppm | -0.0006 ppm | 0.1428 ppm |
| Concentration RSD | 339.1 % | 2.0 % | 0.8 % | 0.3 % | 0.3 % | 945.0 % | 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 | 0.5713 ppm | 95.5250 % | 99.2841 % | 78.9444 % | 103.2573 % | 111.6233 % | 102.6690 % |
| Concentration per Run 1 | 0.5701 ppm | 95.5457 % | 98.5578 % | 79.1744 % | 103.4738 % | 111.1339 % | 102.5501 % |
| Concentration per Run 2 | 0.5766 ppm | 95.5019 % | 99.4930 % | 78.7733 % | 103.3557 % | 112.0939 % | 102.6783 % |
| Concentration per Run 3 | 0.5673 ppm | 95.5274 % | 99.8014 % | 78.8854 % | 102.9425 % | 111.6419 % | 102.7787 % |
| Concentration RSD | 0.8 % | 0.0 % | 0.7 % | 0.3 % | 0.3 % | 0.4 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474309-06d2 WG2012713
Analysis started at: 12/23/2024 5:45:22 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 | 0.0018 ppm | 61.7816 ppm | 0.0443 ppm | 0.0102 ppm | 0.5620 ppm | 0.0028 ppm | 55.3853 ppm |
| Concentration per Run 1 | 0.0018 ppm | 62.1936 ppm | 0.0446 ppm | 0.0109 ppm | 0.5643 ppm | 0.0028 ppm | 55.8524 ppm |
| Concentration per Run 2 | 0.0017 ppm | 61.7249 ppm | 0.0445 ppm | 0.0093 ppm | 0.5612 ppm | 0.0028 ppm | 55.1827 ppm |
| Concentration per Run 3 | 0.0020 ppm | 61.4262 ppm | 0.0438 ppm | 0.0105 ppm | 0.5605 ppm | 0.0027 ppm | 55.1209 ppm |
| Concentration RSD | 7.7 % | 0.6 % | 1.0 % | 8.3 % | 0.4 % | 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 | 0.0012 ppm | 0.0528 ppm | 0.1040 ppm | 0.3780 ppm | 133.9122 ppm | 6.7660 ppm | 0.1008 ppm |
| Concentration per Run 1 | 0.0012 ppm | 0.0532 ppm | 0.1048 ppm | 0.3798 ppm | 134.8085 ppm | 6.7792 ppm | 0.1021 ppm |
| Concentration per Run 2 | 0.0012 ppm | 0.0527 ppm | 0.1039 ppm | 0.3798 ppm | 133.3501 ppm | 6.7561 ppm | 0.1006 ppm |
| Concentration per Run 3 | 0.0012 ppm | 0.0524 ppm | 0.1033 ppm | 0.3744 ppm | 133.5780 ppm | 6.7628 ppm | 0.0997 ppm |
| Concentration RSD | 0.5 % | 0.7 % | 0.7 % | 0.8 % | 0.6 % | 0.2 % | 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 | 28.8572 ppm | 3.4644 ppm | 0.0052 ppm | 4.4287 ppm | 0.0979 ppm | 1.4581 ppm | 0.0082 ppm |
| Concentration per Run 1 | 29.0751 ppm | 3.4878 ppm | 0.0053 ppm | 4.4277 ppm | 0.0988 ppm | 1.4602 ppm | 0.0096 ppm |
| Concentration per Run 2 | 28.7021 ppm | 3.4547 ppm | 0.0050 ppm | 4.4414 ppm | 0.0971 ppm | 1.4607 ppm | 0.0087 ppm |
| Concentration per Run 3 | 28.7945 ppm | 3.4506 ppm | 0.0053 ppm | 4.4169 ppm | 0.0977 ppm | 1.4532 ppm | 0.0064 ppm |
| Concentration RSD | 0.7 % | 0.6 % | 4.0 % | 0.3 % | 0.9 % | 0.3 % | 19.7 % |

| | 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 | 4.3123 ppm | 0.0628 ppm | 0.2516 ppm | 2.9701 ppm | -0.0003 ppm | 0.1727 ppm |
| Concentration per Run 1 | 0.0000 ppm | 4.4232 ppm | 0.0630 ppm | 0.2523 ppm | 2.9881 ppm | -0.0004 ppm | 0.1737 ppm |
| Concentration per Run 2 | -0.0011 ppm | 4.3218 ppm | 0.0632 ppm | 0.2527 ppm | 2.9652 ppm | 0.0004 ppm | 0.1729 ppm |
| Concentration per Run 3 | -0.0003 ppm | 4.1918 ppm | 0.0623 ppm | 0.2499 ppm | 2.9569 ppm | -0.0008 ppm | 0.1713 ppm |
| Concentration RSD | 128.2 % | 2.7 % | 0.8 % | 0.6 % | 0.5 % | 220.1 % | 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 | 0.7155 ppm | 98.1390 % | 100.9762 % | 81.4024 % | 112.9931 % | 119.9833 % | 111.9711 % |
| Concentration per Run 1 | 0.7211 ppm | 97.7439 % | 100.2327 % | 81.5506 % | 112.6759 % | 119.6995 % | 112.3017 % |
| Concentration per Run 2 | 0.7082 ppm | 98.3450 % | 101.4989 % | 81.2036 % | 113.5364 % | 120.3351 % | 111.6993 % |
| Concentration per Run 3 | 0.7170 ppm | 98.3281 % | 101.1972 % | 81.4530 % | 112.7669 % | 119.9153 % | 111.9124 % |
| Concentration RSD | 0.9 % | 0.3 % | 0.7 % | 0.2 % | 0.4 % | 0.3 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474309-07d2 WG2012713
Analysis started at: 12/23/2024 5:49:48 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 | 0.0020 ppm | 69.0807 ppm | 0.0385 ppm | 0.0114 ppm | 0.4766 ppm | 0.0028 ppm | 56.8843 ppm |
| Concentration per Run 1 | 0.0019 ppm | 69.8813 ppm | 0.0380 ppm | 0.0117 ppm | 0.4785 ppm | 0.0029 ppm | 56.9134 ppm |
| Concentration per Run 2 | 0.0022 ppm | 68.6499 ppm | 0.0384 ppm | 0.0118 ppm | 0.4772 ppm | 0.0028 ppm | 56.9561 ppm |
| Concentration per Run 3 | 0.0019 ppm | 68.7108 ppm | 0.0391 ppm | 0.0106 ppm | 0.4740 ppm | 0.0028 ppm | 56.7834 ppm |
| Concentration RSD | 9.1 % | 1.0 % | 1.4 % | 5.8 % | 0.5 % | 1.8 % | 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 | 0.0012 ppm | 0.0543 ppm | 0.1142 ppm | 0.3926 ppm | 125.8897 ppm | 8.5339 ppm | 0.1134 ppm |
| Concentration per Run 1 | 0.0011 ppm | 0.0549 ppm | 0.1142 ppm | 0.3952 ppm | 125.2145 ppm | 8.5928 ppm | 0.1148 ppm |
| Concentration per Run 2 | 0.0013 ppm | 0.0542 ppm | 0.1144 ppm | 0.3907 ppm | 126.9784 ppm | 8.5511 ppm | 0.1133 ppm |
| Concentration per Run 3 | 0.0012 ppm | 0.0539 ppm | 0.1140 ppm | 0.3919 ppm | 125.4762 ppm | 8.4577 ppm | 0.1119 ppm |
| Concentration RSD | 6.8 % | 1.0 % | 0.2 % | 0.6 % | 0.8 % | 0.8 % | 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 | 32.8775 ppm | 2.9707 ppm | 0.0045 ppm | 4.6096 ppm | 0.1037 ppm | 1.2743 ppm | 0.0073 ppm |
| Concentration per Run 1 | 32.9725 ppm | 2.9597 ppm | 0.0043 ppm | 4.6819 ppm | 0.1047 ppm | 1.2764 ppm | 0.0073 ppm |
| Concentration per Run 2 | 32.9487 ppm | 2.9851 ppm | 0.0044 ppm | 4.5839 ppm | 0.1039 ppm | 1.2768 ppm | 0.0080 ppm |
| Concentration per Run 3 | 32.7113 ppm | 2.9673 ppm | 0.0047 ppm | 4.5629 ppm | 0.1026 ppm | 1.2696 ppm | 0.0067 ppm |
| Concentration RSD | 0.4 % | 0.4 % | 5.0 % | 1.4 % | 1.1 % | 0.3 % | 9.0 % |

| | 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 | 0.0003 ppm | 4.3910 ppm | 0.0637 ppm | 0.2402 ppm | 3.3422 ppm | 0.0005 ppm | 0.1829 ppm |
| Concentration per Run 1 | -0.0006 ppm | 4.5140 ppm | 0.0644 ppm | 0.2402 ppm | 3.3548 ppm | 0.0005 ppm | 0.1842 ppm |
| Concentration per Run 2 | 0.0002 ppm | 4.3354 ppm | 0.0626 ppm | 0.2409 ppm | 3.3360 ppm | 0.0004 ppm | 0.1834 ppm |
| Concentration per Run 3 | 0.0012 ppm | 4.3237 ppm | 0.0642 ppm | 0.2396 ppm | 3.3357 ppm | 0.0005 ppm | 0.1811 ppm |
| Concentration RSD | 342.5 % | 2.4 % | 1.6 % | 0.3 % | 0.3 % | 14.6 % | 0.9 % |

| | 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 | 0.6978 ppm | 98.1220 % | 100.6717 % | 81.1155 % | 108.9135 % | 116.5108 % | 109.1613 % |
| Concentration per Run 1 | 0.6970 ppm | 97.8946 % | 100.7910 % | 80.9871 % | 109.2773 % | 116.7190 % | 109.3046 % |
| Concentration per Run 2 | 0.6981 ppm | 98.3556 % | 100.1168 % | 81.0807 % | 109.5099 % | 116.1149 % | 109.1548 % |
| Concentration per Run 3 | 0.6983 ppm | 98.1159 % | 101.1073 % | 81.2786 % | 107.9533 % | 116.6987 % | 109.0246 % |
| Concentration RSD | 0.1 % | 0.2 % | 0.5 % | 0.2 % | 0.8 % | 0.3 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 5:55:11 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 | 0.4902 ppm | 0.4938 ppm | 0.4626 ppm | 0.4520 ppm | 0.5051 ppm | 0.4922 ppm | 0.4846 ppm |
| Concentration per Run 1 | 0.4936 ppm | 0.4935 ppm | 0.4607 ppm | 0.4535 ppm | 0.5085 ppm | 0.4912 ppm | 0.4846 ppm |
| Concentration per Run 2 | 0.4899 ppm | 0.4952 ppm | 0.4638 ppm | 0.4537 ppm | 0.5023 ppm | 0.4915 ppm | 0.4848 ppm |
| Concentration per Run 3 | 0.4871 ppm | 0.4926 ppm | 0.4634 ppm | 0.4487 ppm | 0.5044 ppm | 0.4939 ppm | 0.4844 ppm |
| Recovery Percentage 1 | 98.039 % | 98.760 % | 92.527 % | 90.397 % | 101.014 % | 98.439 % | 96.920 % |
| Concentration RSD | 0.7 % | 0.3 % | 0.4 % | 0.6 % | 0.6 % | 0.3 % | 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 | 0.4794 ppm | 0.5003 ppm | 0.4844 ppm | 0.4882 ppm | 0.4959 ppm | 5.3625 ppm | 0.5262 ppm |
| Concentration per Run 1 | 0.4829 ppm | 0.5035 ppm | 0.4880 ppm | 0.4890 ppm | 0.4952 ppm | 5.3807 ppm | 0.5272 ppm |
| Concentration per Run 2 | 0.4794 ppm | 0.5012 ppm | 0.4852 ppm | 0.4895 ppm | 0.4954 ppm | 5.3295 ppm | 0.5207 ppm |
| Concentration per Run 3 | 0.4760 ppm | 0.4961 ppm | 0.4799 ppm | 0.4862 ppm | 0.4971 ppm | 5.3773 ppm | 0.5308 ppm |
| Recovery Percentage 1 | 95.889 % | 100.051 % | 96.874 % | 97.645 % | 99.188 % | 107.250 % | 105.246 % |
| Concentration RSD | 0.7 % | 0.8 % | 0.8 % | 0.4 % | 0.2 % | 0.5 % | 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 | 0.4896 ppm | 0.4797 ppm | 0.4834 ppm | 10.5395 ppm | 0.4956 ppm | 0.4883 ppm | 0.4923 ppm |
| Concentration per Run 1 | 0.4935 ppm | 0.4773 ppm | 0.4837 ppm | 10.5856 ppm | 0.4987 ppm | 0.4881 ppm | 0.4932 ppm |
| Concentration per Run 2 | 0.4902 ppm | 0.4800 ppm | 0.4855 ppm | 10.5539 ppm | 0.4962 ppm | 0.4885 ppm | 0.4957 ppm |
| Concentration per Run 3 | 0.4849 ppm | 0.4818 ppm | 0.4810 ppm | 10.4790 ppm | 0.4918 ppm | 0.4883 ppm | 0.4879 ppm |
| Recovery Percentage 1 | 97.913 % | 95.944 % | 96.684 % | 105.395 % | 99.117 % | 97.661 % | 98.457 % |
| Concentration RSD | 0.9 % | 0.5 % | 0.5 % | 0.5 % | 0.7 % | 0.0 % | 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 | 0.4754 ppm | 5.2032 ppm | 0.5082 ppm | 0.5396 ppm | 0.4834 ppm | 0.4909 ppm | 0.4956 ppm |
| Concentration per Run 1 | 0.4734 ppm | 5.2426 ppm | 0.5105 ppm | 0.5410 ppm | 0.4868 ppm | 0.4897 ppm | 0.4982 ppm |
| Concentration per Run 2 | 0.4735 ppm | 5.2094 ppm | 0.5106 ppm | 0.5359 ppm | 0.4831 ppm | 0.4915 ppm | 0.4959 ppm |
| Concentration per Run 3 | 0.4793 ppm | 5.1575 ppm | 0.5035 ppm | 0.5419 ppm | 0.4802 ppm | 0.4914 ppm | 0.4926 ppm |
| Recovery Percentage 1 | 95.084 % | 99.108 % | 101.640 % | 107.920 % | 96.674 % | 98.177 % | 99.113 % |
| Concentration RSD | 0.7 % | 0.8 % | 0.8 % | 0.6 % | 0.7 % | 0.2 % | 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 | 0.4833 ppm | 99.2293 % | 99.7586 % | 94.6363 % | 95.4937 % | 98.4243 % | 95.7182 % |
| Concentration per Run 1 | 0.4878 ppm | 98.7725 % | 100.3374 % | 94.5274 % | 95.3642 % | 98.5169 % | 95.9735 % |
| Concentration per Run 2 | 0.4840 ppm | 99.1699 % | 99.7605 % | 95.0299 % | 95.5812 % | 98.1815 % | 96.0270 % |
| Concentration per Run 3 | 0.4781 ppm | 99.7454 % | 99.1779 % | 94.3517 % | 95.5356 % | 98.5745 % | 95.1540 % |
| Recovery Percentage 1 | 96.656 % | | | | | | |
| Concentration RSD | 1.0 % | 0.5 % | 0.6 % | 0.4 % | 0.1 % | 0.2 % | 0.5 % |

# iCAP Pro Trace 8 Data report
12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 5:59:40 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 | -0.0009 ppm | 0.0007 ppm | 0.0001 ppm | 0.0000 ppm | 0.0004 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0019 ppm | -0.0001 ppm | 0.0003 ppm | 0.0001 ppm | 0.0000 ppm | -0.0005 ppm |
| Concentration per Run 2 | 0.0002 ppm | -0.0033 ppm | -0.0011 ppm | 0.0004 ppm | 0.0001 ppm | 0.0000 ppm | 0.0020 ppm |
| Concentration per Run 3 | -0.0002 ppm | -0.0022 ppm | -0.0014 ppm | 0.0013 ppm | 0.0000 ppm | 0.0000 ppm | -0.0002 ppm |
| Recovery Percentage 1 | -0.079 % | -2.478 % | -17.628 % | 2.181 % | 0.661 % | 0.416 % | 0.441 % |
| Concentration RSD | 4,971.9 % | 29.7 % | 77.4 % | 81.4 % | 51.9 % | 66.4 % | 302.4 % |

| | 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 | -0.0002 ppm | 0.0000 ppm | -0.0002 ppm | 0.0027 ppm | 0.0148 ppm | -0.0002 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0002 ppm | 0.0000 ppm | -0.0001 ppm | 0.0034 ppm | 0.0142 ppm | 0.0002 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0004 ppm | 0.0000 ppm | -0.0003 ppm | 0.0018 ppm | 0.0067 ppm | -0.0008 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0001 ppm | 0.0000 ppm | -0.0003 ppm | 0.0030 ppm | 0.0234 ppm | 0.0000 ppm |
| Recovery Percentage 1 | -0.815 % | -2.400 % | 0.144 % | -2.135 % | 5.473 % | 0.591 % | -1.702 % |
| Concentration RSD | 99.6 % | 73.7 % | 250.0 % | 51.3 % | 31.5 % | 56.6 % | 307.8 % |

| | 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 | -0.0018 ppm | 0.0001 ppm | 0.0020 ppm | 0.0188 ppm | -0.0001 ppm | -0.0001 ppm | 0.0003 ppm |
| Concentration per Run 1 | -0.0008 ppm | 0.0000 ppm | 0.0022 ppm | 0.0155 ppm | 0.0000 ppm | -0.0005 ppm | -0.0007 ppm |
| Concentration per Run 2 | -0.0016 ppm | 0.0002 ppm | 0.0020 ppm | 0.0201 ppm | -0.0006 ppm | 0.0006 ppm | -0.0002 ppm |
| Concentration per Run 3 | -0.0031 ppm | 0.0002 ppm | 0.0018 ppm | 0.0208 ppm | 0.0003 ppm | -0.0004 ppm | 0.0019 ppm |
| Recovery Percentage 1 | -1.847 % | 1.164 % | 3.949 % | 0.940 % | -0.306 % | -1.038 % | 0.678 % |
| Concentration RSD | 64.2 % | 82.7 % | 9.0 % | 15.1 % | 582.7 % | 586.3 % | 417.4 % |

| | 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 | 0.0036 ppm | -0.0001 ppm | 0.0001 ppm | -0.0002 ppm | 0.0000 ppm | 0.0002 ppm |
| Concentration per Run 1 | 0.0006 ppm | 0.0024 ppm | -0.0003 ppm | 0.0001 ppm | -0.0001 ppm | -0.0003 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0015 ppm | 0.0021 ppm | 0.0003 ppm | 0.0001 ppm | -0.0004 ppm | -0.0002 ppm | 0.0001 ppm |
| Concentration per Run 3 | 0.0007 ppm | 0.0063 ppm | -0.0002 ppm | 0.0001 ppm | -0.0003 ppm | 0.0006 ppm | 0.0002 ppm |
| Recovery Percentage 1 | -0.490 % | 0.722 % | -0.119 % | 1.031 % | -2.482 % | 0.046 % | 1.531 % |
| Concentration RSD | 2,566.0 % | 65.1 % | 525.1 % | 26.4 % | 50.1 % | 5,160.9 % | 37.6 % |

| | 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 | 96.6609 % | 98.2513 % | 96.1639 % | 96.8336 % | 99.1886 % | 97.4270 % |
| Concentration per Run 1 | -0.0006 ppm | 96.2973 % | 98.4752 % | 95.8706 % | 96.9729 % | 99.0253 % | 97.5454 % |
| Concentration per Run 2 | -0.0005 ppm | 96.7016 % | 97.7656 % | 96.3450 % | 96.8815 % | 99.1788 % | 97.6003 % |
| Concentration per Run 3 | -0.0002 ppm | 96.9837 % | 98.5131 % | 96.2760 % | 96.6464 % | 99.3618 % | 97.1354 % |
| Recovery Percentage 1 | -8.916 % | | | | | | |
| Concentration RSD | 42.7 % | 0.4 % | 0.4 % | 0.3 % | 0.2 % | 0.2 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: OB scan L2473927-02
Analysis started at: 12/23/2024 6:04:29 PM
Rack 2
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 | -0.0001 ppm | 0.0060 ppm | 0.0003 ppm | 0.0359 ppm | 0.2735 ppm | 0.0000 ppm | 45.7708 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0038 ppm | 0.0010 ppm | 0.0364 ppm | 0.2738 ppm | 0.0000 ppm | 45.6890 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0067 ppm | 0.0004 ppm | 0.0361 ppm | 0.2716 ppm | 0.0000 ppm | 45.8848 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0076 ppm | -0.0003 ppm | 0.0352 ppm | 0.2753 ppm | 0.0000 ppm | 45.7386 ppm |
| Concentration RSD | 67.8 % | 32.6 % | 188.4 % | 1.8 % | 0.7 % | 319.9 % | 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 | -0.0003 ppm | 0.0001 ppm | 0.0001 ppm | 0.0248 ppm | 0.0063 ppm | 1.4703 ppm | 0.0170 ppm |
| Concentration per Run 1 | -0.0002 ppm | -0.0001 ppm | 0.0000 ppm | 0.0248 ppm | 0.0063 ppm | 1.4683 ppm | 0.0181 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0001 ppm | 0.0000 ppm | 0.0249 ppm | 0.0057 ppm | 1.4695 ppm | 0.0168 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0004 ppm | 0.0003 ppm | 0.0249 ppm | 0.0069 ppm | 1.4731 ppm | 0.0162 ppm |
| Concentration RSD | 25.6 % | 247.9 % | 239.8 % | 0.2 % | 9.6 % | 0.2 % | 5.7 % |

| | 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 | 5.6766 ppm | 0.0004 ppm | 0.0005 ppm | 12.7291 ppm | 0.0003 ppm | 0.0005 ppm | 0.0008 ppm |
| Concentration per Run 1 | 5.7147 ppm | 0.0004 ppm | 0.0008 ppm | 12.7087 ppm | -0.0002 ppm | 0.0001 ppm | -0.0007 ppm |
| Concentration per Run 2 | 5.6901 ppm | 0.0004 ppm | 0.0002 ppm | 12.6470 ppm | 0.0004 ppm | 0.0004 ppm | 0.0004 ppm |
| Concentration per Run 3 | 5.6251 ppm | 0.0004 ppm | 0.0006 ppm | 12.8316 ppm | 0.0008 ppm | 0.0011 ppm | 0.0027 ppm |
| Concentration RSD | 0.8 % | 7.8 % | 50.9 % | 0.7 % | 163.3 % | 97.5 % | 226.1 % |

| | 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 | -0.0011 ppm | 5.3577 ppm | 0.0002 ppm | 0.7561 ppm | -0.0004 ppm | 0.0006 ppm | 0.0002 ppm |
| Concentration per Run 1 | -0.0008 ppm | 5.3896 ppm | 0.0012 ppm | 0.7597 ppm | -0.0004 ppm | 0.0013 ppm | 0.0003 ppm |
| Concentration per Run 2 | -0.0009 ppm | 5.3614 ppm | -0.0008 ppm | 0.7527 ppm | -0.0003 ppm | 0.0002 ppm | 0.0000 ppm |
| Concentration per Run 3 | -0.0017 ppm | 5.3222 ppm | 0.0003 ppm | 0.7559 ppm | -0.0005 ppm | 0.0002 ppm | 0.0003 ppm |
| Concentration RSD | 40.3 % | 0.6 % | 431.6 % | 0.5 % | 27.4 % | 109.3 % | 84.8 % |

| | 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 | 0.0100 ppm | 89.0050 % | 93.3696 % | 86.1113 % | 92.8385 % | 99.1836 % | 94.0353 % |
| Concentration per Run 1 | 0.0100 ppm | 88.5023 % | 93.8615 % | 85.4103 % | 92.3701 % | 99.8387 % | 93.7583 % |
| Concentration per Run 2 | 0.0101 ppm | 89.0748 % | 93.1283 % | 86.3308 % | 93.0079 % | 98.8260 % | 94.1540 % |
| Concentration per Run 3 | 0.0098 ppm | 89.4380 % | 93.1190 % | 86.5927 % | 93.1374 % | 98.8861 % | 94.1936 % |
| Concentration RSD | 1.9 % | 0.5 % | 0.5 % | 0.7 % | 0.4 % | 0.6 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474309-08d2 WG2012713
Analysis started at: 12/23/2024 6:17:20 PM
Rack 2
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 | 0.0024 ppm | 77.5831 ppm | 0.0340 ppm | 0.0105 ppm | 0.4234 ppm | 0.0032 ppm | 81.6197 ppm |
| Concentration per Run 1 | 0.0026 ppm | 77.9062 ppm | 0.0326 ppm | 0.0105 ppm | 0.4250 ppm | 0.0032 ppm | 81.8847 ppm |
| Concentration per Run 2 | 0.0023 ppm | 77.1638 ppm | 0.0342 ppm | 0.0103 ppm | 0.4218 ppm | 0.0032 ppm | 82.0821 ppm |
| Concentration per Run 3 | 0.0022 ppm | 77.6794 ppm | 0.0352 ppm | 0.0106 ppm | 0.4233 ppm | 0.0032 ppm | 80.8924 ppm |
| Concentration RSD | 7.4 % | 0.5 % | 3.9 % | 1.2 % | 0.4 % | 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 | 0.0010 ppm | 0.0630 ppm | 0.1724 ppm | 0.3035 ppm | 146.1647 ppm | 6.7049 ppm | 0.1262 ppm |
| Concentration per Run 1 | 0.0011 ppm | 0.0632 ppm | 0.1735 ppm | 0.3040 ppm | 146.7879 ppm | 6.7525 ppm | 0.1279 ppm |
| Concentration per Run 2 | 0.0009 ppm | 0.0627 ppm | 0.1723 ppm | 0.3034 ppm | 147.1615 ppm | 6.6302 ppm | 0.1248 ppm |
| Concentration per Run 3 | 0.0010 ppm | 0.0631 ppm | 0.1716 ppm | 0.3032 ppm | 144.5447 ppm | 6.7320 ppm | 0.1259 ppm |
| Concentration RSD | 6.6 % | 0.4 % | 0.6 % | 0.1 % | 1.0 % | 1.0 % | 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 | 37.2745 ppm | 2.9652 ppm | 0.0117 ppm | 3.0242 ppm | 0.1186 ppm | 2.2939 ppm | 0.0095 ppm |
| Concentration per Run 1 | 37.4748 ppm | 2.9736 ppm | 0.0115 ppm | 3.0400 ppm | 0.1192 ppm | 2.2903 ppm | 0.0087 ppm |
| Concentration per Run 2 | 37.2370 ppm | 2.9842 ppm | 0.0116 ppm | 2.9747 ppm | 0.1197 ppm | 2.2939 ppm | 0.0080 ppm |
| Concentration per Run 3 | 37.1116 ppm | 2.9379 ppm | 0.0121 ppm | 3.0579 ppm | 0.1168 ppm | 2.2977 ppm | 0.0117 ppm |
| Concentration RSD | 0.5 % | 0.8 % | 3.0 % | 1.4 % | 1.3 % | 0.2 % | 20.9 % |

| | 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 | -0.0026 ppm | 4.2407 ppm | 0.1447 ppm | 0.2963 ppm | 3.0813 ppm | 0.0008 ppm | 0.2270 ppm |
| Concentration per Run 1 | -0.0031 ppm | 4.3428 ppm | 0.1446 ppm | 0.2983 ppm | 3.0981 ppm | 0.0010 ppm | 0.2272 ppm |
| Concentration per Run 2 | -0.0026 ppm | 4.2128 ppm | 0.1460 ppm | 0.2951 ppm | 3.0758 ppm | 0.0015 ppm | 0.2270 ppm |
| Concentration per Run 3 | -0.0021 ppm | 4.1664 ppm | 0.1436 ppm | 0.2953 ppm | 3.0702 ppm | 0.0000 ppm | 0.2267 ppm |
| Concentration RSD | 20.4 % | 2.2 % | 0.8 % | 0.6 % | 0.5 % | 98.0 % | 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 | 0.5788 ppm | 98.3721 % | 101.3299 % | 80.9873 % | 108.4067 % | 117.0718 % | 108.5868 % |
| Concentration per Run 1 | 0.5832 ppm | 98.2080 % | 101.1111 % | 81.2551 % | 108.5938 % | 116.6580 % | 108.8078 % |
| Concentration per Run 2 | 0.5786 ppm | 98.4286 % | 100.6117 % | 80.8219 % | 108.2637 % | 116.9391 % | 108.3964 % |
| Concentration per Run 3 | 0.5746 ppm | 98.4797 % | 102.2668 % | 80.8848 % | 108.3625 % | 117.6184 % | 108.5562 % |
| Concentration RSD | 0.7 % | 0.1 % | 0.8 % | 0.3 % | 0.2 % | 0.4 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474309-09d2 WG2012713
Analysis started at: 12/23/2024 6:21:53 PM
Rack 2
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 | 65.5038 ppm | 0.0281 ppm | 0.0056 ppm | 0.3012 ppm | 0.0025 ppm | 31.6448 ppm |
| Concentration per Run 1 | 0.0019 ppm | 65.0967 ppm | 0.0273 ppm | 0.0050 ppm | 0.3005 ppm | 0.0024 ppm | 31.3900 ppm |
| Concentration per Run 2 | 0.0015 ppm | 65.2960 ppm | 0.0291 ppm | 0.0059 ppm | 0.3012 ppm | 0.0025 ppm | 31.8617 ppm |
| Concentration per Run 3 | 0.0017 ppm | 66.1188 ppm | 0.0279 ppm | 0.0058 ppm | 0.3017 ppm | 0.0025 ppm | 31.6827 ppm |
| Concentration RSD | 10.4 % | 0.8 % | 3.2 % | 9.4 % | 0.2 % | 2.3 % | 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 | 0.0014 ppm | 0.0604 ppm | 0.1083 ppm | 0.1998 ppm | 127.9654 ppm | 6.0206 ppm | 0.1070 ppm |
| Concentration per Run 1 | 0.0012 ppm | 0.0614 ppm | 0.1083 ppm | 0.2009 ppm | 127.2885 ppm | 6.0039 ppm | 0.1068 ppm |
| Concentration per Run 2 | 0.0015 ppm | 0.0599 ppm | 0.1088 ppm | 0.1998 ppm | 128.6928 ppm | 5.9705 ppm | 0.1054 ppm |
| Concentration per Run 3 | 0.0016 ppm | 0.0598 ppm | 0.1079 ppm | 0.1985 ppm | 127.9148 ppm | 6.0875 ppm | 0.1088 ppm |
| Concentration RSD | 16.4 % | 1.5 % | 0.4 % | 0.6 % | 0.5 % | 1.0 % | 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 | 31.9206 ppm | 3.4958 ppm | 0.0061 ppm | 2.7321 ppm | 0.0969 ppm | 0.3414 ppm | 0.0083 ppm |
| Concentration per Run 1 | 31.9823 ppm | 3.4810 ppm | 0.0063 ppm | 2.7179 ppm | 0.0969 ppm | 0.3419 ppm | 0.0083 ppm |
| Concentration per Run 2 | 31.8715 ppm | 3.5123 ppm | 0.0062 ppm | 2.7001 ppm | 0.0972 ppm | 0.3407 ppm | 0.0099 ppm |
| Concentration per Run 3 | 31.9079 ppm | 3.4940 ppm | 0.0058 ppm | 2.7783 ppm | 0.0968 ppm | 0.3415 ppm | 0.0066 ppm |
| Concentration RSD | 0.2 % | 0.5 % | 4.5 % | 1.5 % | 0.2 % | 0.2 % | 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 | -0.0009 ppm | 3.9878 ppm | 0.0118 ppm | 0.1421 ppm | 2.8111 ppm | 0.0000 ppm | 0.1930 ppm |
| Concentration per Run 1 | 0.0000 ppm | 3.9945 ppm | 0.0121 ppm | 0.1413 ppm | 2.8186 ppm | -0.0003 ppm | 0.1944 ppm |
| Concentration per Run 2 | -0.0002 ppm | 4.0085 ppm | 0.0113 ppm | 0.1424 ppm | 2.8132 ppm | -0.0001 ppm | 0.1928 ppm |
| Concentration per Run 3 | -0.0023 ppm | 3.9604 ppm | 0.0121 ppm | 0.1428 ppm | 2.8015 ppm | 0.0003 ppm | 0.1918 ppm |
| Concentration RSD | 149.7 % | 0.6 % | 3.9 % | 0.5 % | 0.3 % | 674.5 % | 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 | 0.8983 ppm | 99.4049 % | 101.7368 % | 84.1085 % | 106.9769 % | 113.8541 % | 107.7807 % |
| Concentration per Run 1 | 0.9005 ppm | 99.4771 % | 102.7858 % | 84.1814 % | 107.6458 % | 114.7494 % | 107.9436 % |
| Concentration per Run 2 | 0.8953 ppm | 99.4483 % | 100.8925 % | 84.0213 % | 107.4292 % | 113.3281 % | 107.7459 % |
| Concentration per Run 3 | 0.8991 ppm | 99.2893 % | 101.5322 % | 84.1229 % | 105.8559 % | 113.4848 % | 107.6527 % |
| Concentration RSD | 0.3 % | 0.1 % | 0.9 % | 0.1 % | 0.9 % | 0.7 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474309-10d2 WG2012713
Analysis started at: 12/23/2024 6:26:20 PM
Rack 2
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 | 0.0023 ppm | 79.2354 ppm | 0.0572 ppm | 0.0106 ppm | 0.5660 ppm | 0.0035 ppm | 29.5170 ppm |
| Concentration per Run 1 | 0.0024 ppm | 80.3105 ppm | 0.0572 ppm | 0.0106 ppm | 0.5707 ppm | 0.0035 ppm | 29.4102 ppm |
| Concentration per Run 2 | 0.0023 ppm | 79.0862 ppm | 0.0569 ppm | 0.0098 ppm | 0.5662 ppm | 0.0035 ppm | 29.6194 ppm |
| Concentration per Run 3 | 0.0024 ppm | 78.3095 ppm | 0.0577 ppm | 0.0114 ppm | 0.5613 ppm | 0.0034 ppm | 29.5213 ppm |
| Concentration RSD | 3.4 % | 1.3 % | 0.7 % | 7.5 % | 0.8 % | 1.2 % | 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 | 0.0038 ppm | 0.0804 ppm | 0.1391 ppm | 0.6627 ppm | 138.3136 ppm | 6.8152 ppm | 0.1499 ppm |
| Concentration per Run 1 | 0.0038 ppm | 0.0803 ppm | 0.1395 ppm | 0.6634 ppm | 136.8990 ppm | 6.9059 ppm | 0.1535 ppm |
| Concentration per Run 2 | 0.0038 ppm | 0.0808 ppm | 0.1395 ppm | 0.6640 ppm | 139.2045 ppm | 6.7653 ppm | 0.1475 ppm |
| Concentration per Run 3 | 0.0038 ppm | 0.0801 ppm | 0.1383 ppm | 0.6607 ppm | 138.8373 ppm | 6.7744 ppm | 0.1485 ppm |
| Concentration RSD | 0.2 % | 0.5 % | 0.5 % | 0.3 % | 0.9 % | 1.2 % | 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 | 32.1123 ppm | 3.7344 ppm | 0.0057 ppm | 2.6199 ppm | 0.1449 ppm | 1.4698 ppm | 0.0063 ppm |
| Concentration per Run 1 | 32.2225 ppm | 3.7133 ppm | 0.0057 ppm | 2.6817 ppm | 0.1458 ppm | 1.4772 ppm | 0.0051 ppm |
| Concentration per Run 2 | 32.1458 ppm | 3.7513 ppm | 0.0058 ppm | 2.6012 ppm | 0.1444 ppm | 1.4679 ppm | 0.0081 ppm |
| Concentration per Run 3 | 31.9686 ppm | 3.7386 ppm | 0.0056 ppm | 2.5769 ppm | 0.1444 ppm | 1.4643 ppm | 0.0058 ppm |
| Concentration RSD | 0.4 % | 0.5 % | 1.6 % | 2.1 % | 0.5 % | 0.5 % | 25.4 % |

| | 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 | 4.8339 ppm | 0.0952 ppm | 0.3184 ppm | 2.8309 ppm | -0.0003 ppm | 0.3389 ppm |
| Concentration per Run 1 | -0.0017 ppm | 4.8576 ppm | 0.0959 ppm | 0.3192 ppm | 2.8457 ppm | 0.0004 ppm | 0.3384 ppm |
| Concentration per Run 2 | -0.0010 ppm | 4.7805 ppm | 0.0967 ppm | 0.3191 ppm | 2.8245 ppm | -0.0010 ppm | 0.3400 ppm |
| Concentration per Run 3 | -0.0022 ppm | 4.8637 ppm | 0.0930 ppm | 0.3168 ppm | 2.8225 ppm | -0.0003 ppm | 0.3382 ppm |
| Concentration RSD | 36.9 % | 1.0 % | 2.0 % | 0.4 % | 0.5 % | 209.5 % | 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 | 1.2063 ppm | 100.3085 % | 102.7620 % | 83.3466 % | 109.3650 % | 117.4507 % | 109.8457 % |
| Concentration per Run 1 | 1.2124 ppm | 99.4898 % | 103.3760 % | 83.3737 % | 107.9407 % | 117.9359 % | 110.2921 % |
| Concentration per Run 2 | 1.2110 ppm | 100.5481 % | 102.7517 % | 83.3893 % | 109.9293 % | 117.8407 % | 109.5142 % |
| Concentration per Run 3 | 1.1954 ppm | 100.8876 % | 102.1581 % | 83.2766 % | 110.2251 % | 116.5754 % | 109.7308 % |
| Concentration RSD | 0.8 % | 0.7 % | 0.6 % | 0.1 % | 1.1 % | 0.6 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474309-11d2 WG2012713
Analysis started at: 12/23/2024 6:30:48 PM
Rack 2
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 | 0.0046 ppm | 71.6232 ppm | 0.1023 ppm | 0.0189 ppm | 0.9233 ppm | 0.0033 ppm | 73.9788 ppm |
| Concentration per Run 1 | 0.0045 ppm | 71.2505 ppm | 0.1029 ppm | 0.0190 ppm | 0.9149 ppm | 0.0032 ppm | 74.2300 ppm |
| Concentration per Run 2 | 0.0048 ppm | 72.1204 ppm | 0.1015 ppm | 0.0186 ppm | 0.9311 ppm | 0.0033 ppm | 73.6807 ppm |
| Concentration per Run 3 | 0.0046 ppm | 71.4986 ppm | 0.1024 ppm | 0.0192 ppm | 0.9239 ppm | 0.0033 ppm | 74.0257 ppm |
| Concentration RSD | 3.7 % | 0.6 % | 0.7 % | 1.7 % | 0.9 % | 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 | 0.0191 ppm | 0.0620 ppm | 0.1506 ppm | 11.0676 [SIC 40] | 191.7758 ppm | 7.1518 ppm | 0.1390 ppm |
| Concentration per Run 1 | 0.0190 ppm | 0.0617 ppm | 0.1509 ppm | 11.1249 ppm | 192.4482 ppm | 7.0605 ppm | 0.1376 ppm |
| Concentration per Run 2 | 0.0191 ppm | 0.0618 ppm | 0.1503 ppm | 11.0720 ppm | 191.8805 ppm | 7.2701 ppm | 0.1416 ppm |
| Concentration per Run 3 | 0.0191 ppm | 0.0625 ppm | 0.1504 ppm | 11.0058 ppm | 190.9986 ppm | 7.1249 ppm | 0.1379 ppm |
| Concentration RSD | 0.2 % | 0.7 % | 0.2 % | 0.5 % | 0.4 % | 1.5 % | 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 | 25.4488 ppm | 2.8958 ppm | 0.0127 ppm | 2.7363 ppm | 0.1295 ppm | 6.4429 ppm | 0.0264 ppm |
| Concentration per Run 1 | 25.5258 ppm | 2.9030 ppm | 0.0127 ppm | 2.7008 ppm | 0.1291 ppm | 6.4652 ppm | 0.0274 ppm |
| Concentration per Run 2 | 25.4589 ppm | 2.8883 ppm | 0.0127 ppm | 2.7916 ppm | 0.1293 ppm | 6.4327 ppm | 0.0263 ppm |
| Concentration per Run 3 | 25.3618 ppm | 2.8963 ppm | 0.0128 ppm | 2.7166 ppm | 0.1300 ppm | 6.4308 ppm | 0.0256 ppm |
| Concentration RSD | 0.3 % | 0.3 % | 0.4 % | 1.8 % | 0.4 % | 0.3 % | 3.5 % |

| | 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 | 0.0061 ppm | 5.0468 ppm | 0.5971 ppm | 0.3878 ppm | 3.0781 ppm | 0.0006 ppm | 0.2097 ppm |
| Concentration per Run 1 | 0.0060 ppm | 5.1021 ppm | 0.5927 ppm | 0.3855 ppm | 3.0815 ppm | 0.0004 ppm | 0.2101 ppm |
| Concentration per Run 2 | 0.0066 ppm | 5.0016 ppm | 0.5977 ppm | 0.3906 ppm | 3.0882 ppm | 0.0011 ppm | 0.2098 ppm |
| Concentration per Run 3 | 0.0057 ppm | 5.0368 ppm | 0.6009 ppm | 0.3874 ppm | 3.0648 ppm | 0.0003 ppm | 0.2092 ppm |
| Concentration RSD | 7.5 % | 1.0 % | 0.7 % | 0.7 % | 0.4 % | 69.3 % | 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 | 5.5216 ppm | 97.4185 % | 100.4975 % | 79.5458 % | 106.6660 % | 115.0282 % | 105.8108 % |
| Concentration per Run 1 | 5.5073 ppm | 97.2536 % | 100.2343 % | 79.2115 % | 106.9034 % | 114.5869 % | 105.8141 % |
| Concentration per Run 2 | 5.5295 ppm | 97.3371 % | 100.7544 % | 79.9317 % | 106.1969 % | 115.3452 % | 105.7855 % |
| Concentration per Run 3 | 5.5280 ppm | 97.6648 % | 100.5038 % | 79.4941 % | 106.8976 % | 115.1526 % | 105.8329 % |
| Concentration RSD | 0.2 % | 0.2 % | 0.3 % | 0.5 % | 0.4 % | 0.3 % | 0.0 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

| | |
|---|---|
| Sample: | L2474309-12d2 WG2012713 |
| Analysis started at: | 12/23/2024 6:35:14 PM |
| Rack | 2 |
| 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 | 0.0009 ppm | 51.6855 ppm | 0.0155 ppm | 0.0030 ppm | 0.2028 ppm | 0.0020 ppm | 20.9211 ppm |
| Concentration per Run 1 | 0.0009 ppm | 50.8840 ppm | 0.0157 ppm | 0.0014 ppm | 0.2003 ppm | 0.0019 ppm | 21.0492 ppm |
| Concentration per Run 2 | 0.0010 ppm | 52.2177 ppm | 0.0155 ppm | 0.0034 ppm | 0.2048 ppm | 0.0020 ppm | 20.8430 ppm |
| Concentration per Run 3 | 0.0007 ppm | 51.9548 ppm | 0.0155 ppm | 0.0042 ppm | 0.2035 ppm | 0.0020 ppm | 20.8711 ppm |
| Concentration RSD | 20.4 % | 1.4 % | 0.9 % | 48.3 % | 1.1 % | 2.3 % | 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 | 0.0004 ppm | 0.0487 ppm | 0.0741 ppm | 0.4789 ppm | 110.6715 ppm | 5.2680 ppm | 0.0774 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.0489 ppm | 0.0742 ppm | 0.4798 ppm | 112.3366 ppm | 5.2905 ppm | 0.0773 ppm |
| Concentration per Run 2 | 0.0005 ppm | 0.0490 ppm | 0.0745 ppm | 0.4788 ppm | 109.8970 ppm | 5.2594 ppm | 0.0781 ppm |
| Concentration per Run 3 | 0.0003 ppm | 0.0481 ppm | 0.0735 ppm | 0.4780 ppm | 109.7808 ppm | 5.2542 ppm | 0.0769 ppm |
| Concentration RSD | 42.4 % | 1.0 % | 0.7 % | 0.2 % | 1.3 % | 0.4 % | 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 | 25.5752 ppm | 1.8778 ppm | 0.0024 ppm | 0.7779 ppm | 0.0675 ppm | 0.0621 ppm | 0.0036 ppm |
| Concentration per Run 1 | 25.6995 ppm | 1.8966 ppm | 0.0022 ppm | 0.7651 ppm | 0.0687 ppm | 0.0620 ppm | 0.0058 ppm |
| Concentration per Run 2 | 25.6172 ppm | 1.8664 ppm | 0.0024 ppm | 0.7868 ppm | 0.0670 ppm | 0.0615 ppm | 0.0024 ppm |
| Concentration per Run 3 | 25.4088 ppm | 1.8705 ppm | 0.0027 ppm | 0.7816 ppm | 0.0669 ppm | 0.0629 ppm | 0.0026 ppm |
| Concentration RSD | 0.6 % | 0.9 % | 11.3 % | 1.5 % | 1.5 % | 1.1 % | 53.2 % |

| | 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 | -0.0019 ppm | 4.1992 ppm | 0.0041 ppm | 0.1003 ppm | 2.5990 ppm | 0.0008 ppm | 0.1604 ppm |
| Concentration per Run 1 | -0.0027 ppm | 4.1957 ppm | 0.0048 ppm | 0.1003 ppm | 2.6128 ppm | 0.0002 ppm | 0.1616 ppm |
| Concentration per Run 2 | -0.0017 ppm | 4.1588 ppm | 0.0040 ppm | 0.1004 ppm | 2.6071 ppm | 0.0007 ppm | 0.1602 ppm |
| Concentration per Run 3 | -0.0014 ppm | 4.2430 ppm | 0.0036 ppm | 0.1002 ppm | 2.5773 ppm | 0.0014 ppm | 0.1593 ppm |
| Concentration RSD | 33.2 % | 1.0 % | 14.7 % | 0.1 % | 0.7 % | 82.4 % | 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 | 0.2551 ppm | 99.6377 % | 101.2332 % | 85.3314 % | 108.8048 % | 116.0158 % | 109.6554 % |
| Concentration per Run 1 | 0.2567 ppm | 99.5771 % | 100.1662 % | 85.2476 % | 109.7278 % | 115.1551 % | 109.5799 % |
| Concentration per Run 2 | 0.2556 ppm | 99.6715 % | 101.8519 % | 85.2406 % | 108.6146 % | 116.5016 % | 110.0447 % |
| Concentration per Run 3 | 0.2529 ppm | 99.6644 % | 101.6814 % | 85.5062 % | 108.0720 % | 116.3908 % | 109.3414 % |
| Concentration RSD | 0.8 % | 0.1 % | 0.9 % | 0.2 % | 0.8 % | 0.6 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474309-13d2 WG2012713
Analysis started at: 12/23/2024 6:39:41 PM
Rack 2
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 | 0.0012 ppm | 61.2498 ppm | 0.0275 ppm | 0.0078 ppm | 0.2425 ppm | 0.0025 ppm | 39.6424 ppm |
| Concentration per Run 1 | 0.0008 ppm | 61.1265 ppm | 0.0276 ppm | 0.0085 ppm | 0.2444 ppm | 0.0025 ppm | 39.6709 ppm |
| Concentration per Run 2 | 0.0016 ppm | 60.9930 ppm | 0.0267 ppm | 0.0080 ppm | 0.2419 ppm | 0.0024 ppm | 39.6804 ppm |
| Concentration per Run 3 | 0.0013 ppm | 61.6298 ppm | 0.0283 ppm | 0.0070 ppm | 0.2412 ppm | 0.0025 ppm | 39.5758 ppm |
| Concentration RSD | 29.5 % | 0.5 % | 2.8 % | 9.6 % | 0.7 % | 2.1 % | 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 | 0.0007 ppm | 0.0506 ppm | 0.1118 ppm | 0.1713 ppm | 112.4355 ppm | 4.7813 ppm | 0.0966 ppm |
| Concentration per Run 1 | 0.0007 ppm | 0.0501 ppm | 0.1120 ppm | 0.1711 ppm | 112.6309 ppm | 4.8059 ppm | 0.0966 ppm |
| Concentration per Run 2 | 0.0007 ppm | 0.0508 ppm | 0.1119 ppm | 0.1726 ppm | 113.3062 ppm | 4.7862 ppm | 0.0978 ppm |
| Concentration per Run 3 | 0.0008 ppm | 0.0509 ppm | 0.1114 ppm | 0.1703 ppm | 111.3693 ppm | 4.7517 ppm | 0.0953 ppm |
| Concentration RSD | 13.2 % | 0.9 % | 0.3 % | 0.7 % | 0.9 % | 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 | 29.5185 ppm | 2.3006 ppm | 0.0021 ppm | 3.6402 ppm | 0.0929 ppm | 0.3317 ppm | 0.0038 ppm |
| Concentration per Run 1 | 29.4290 ppm | 2.3037 ppm | 0.0024 ppm | 3.6182 ppm | 0.0922 ppm | 0.3342 ppm | 0.0032 ppm |
| Concentration per Run 2 | 29.6562 ppm | 2.3090 ppm | 0.0021 ppm | 3.6375 ppm | 0.0937 ppm | 0.3289 ppm | 0.0046 ppm |
| Concentration per Run 3 | 29.4703 ppm | 2.2891 ppm | 0.0018 ppm | 3.6649 ppm | 0.0928 ppm | 0.3320 ppm | 0.0035 ppm |
| Concentration RSD | 0.4 % | 0.4 % | 15.3 % | 0.6 % | 0.8 % | 0.8 % | 19.8 % |

| | 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 | -0.0015 ppm | 6.0736 ppm | 0.0128 ppm | 0.2196 ppm | 2.8260 ppm | 0.0008 ppm | 0.1756 ppm |
| Concentration per Run 1 | -0.0001 ppm | 6.0953 ppm | 0.0124 ppm | 0.2206 ppm | 2.8272 ppm | 0.0015 ppm | 0.1765 ppm |
| Concentration per Run 2 | -0.0020 ppm | 6.0926 ppm | 0.0128 ppm | 0.2206 ppm | 2.8303 ppm | 0.0008 ppm | 0.1755 ppm |
| Concentration per Run 3 | -0.0023 ppm | 6.0328 ppm | 0.0131 ppm | 0.2176 ppm | 2.8205 ppm | 0.0001 ppm | 0.1747 ppm |
| Concentration RSD | 82.7 % | 0.6 % | 2.6 % | 0.8 % | 0.2 % | 89.9 % | 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 | 0.3367 ppm | 98.8749 % | 100.7971 % | 83.8335 % | 106.3466 % | 114.0188 % | 107.3305 % |
| Concentration per Run 1 | 0.3342 ppm | 98.6910 % | 100.7413 % | 83.4163 % | 106.8369 % | 113.9334 % | 107.0578 % |
| Concentration per Run 2 | 0.3395 ppm | 98.6128 % | 100.7562 % | 84.2110 % | 105.9858 % | 114.0774 % | 107.4355 % |
| Concentration per Run 3 | 0.3365 ppm | 99.3210 % | 100.8936 % | 83.8732 % | 106.2171 % | 114.0457 % | 107.4982 % |
| Concentration RSD | 0.8 % | 0.4 % | 0.1 % | 0.5 % | 0.4 % | 0.1 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474309-14d2 WG2012713
Analysis started at: 12/23/2024 6:44:08 PM
Rack 2
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 | 0.0017 ppm | 61.9146 ppm | 0.0399 ppm | 0.0144 ppm | 0.4451 ppm | 0.0026 ppm | 41.1487 ppm |
| Concentration per Run 1 | 0.0019 ppm | 62.1674 ppm | 0.0398 ppm | 0.0139 ppm | 0.4450 ppm | 0.0026 ppm | 41.2495 ppm |
| Concentration per Run 2 | 0.0014 ppm | 61.6826 ppm | 0.0414 ppm | 0.0157 ppm | 0.4452 ppm | 0.0027 ppm | 41.1599 ppm |
| Concentration per Run 3 | 0.0016 ppm | 61.8937 ppm | 0.0384 ppm | 0.0136 ppm | 0.4450 ppm | 0.0026 ppm | 41.0367 ppm |
| Concentration RSD | 15.1 % | 0.4 % | 3.7 % | 7.8 % | 0.0 % | 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 | 0.0024 ppm | 0.0491 ppm | 0.1795 ppm | 0.3127 ppm | 133.8313 ppm | 6.1041 ppm | 0.0972 ppm |
| Concentration per Run 1 | 0.0025 ppm | 0.0488 ppm | 0.1807 ppm | 0.3126 ppm | 133.7470 ppm | 6.1192 ppm | 0.0979 ppm |
| Concentration per Run 2 | 0.0024 ppm | 0.0499 ppm | 0.1798 ppm | 0.3122 ppm | 133.5994 ppm | 6.0825 ppm | 0.0963 ppm |
| Concentration per Run 3 | 0.0023 ppm | 0.0486 ppm | 0.1782 ppm | 0.3131 ppm | 134.1474 ppm | 6.1105 ppm | 0.0973 ppm |
| Concentration RSD | 4.7 % | 1.5 % | 0.7 % | 0.1 % | 0.2 % | 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 | 26.4774 ppm | 2.3511 ppm | 0.0141 ppm | 6.0599 ppm | 0.0903 ppm | 0.9025 ppm | 0.0055 ppm |
| Concentration per Run 1 | 26.6849 ppm | 2.3590 ppm | 0.0141 ppm | 6.0450 ppm | 0.0907 ppm | 0.9037 ppm | 0.0064 ppm |
| Concentration per Run 2 | 26.5267 ppm | 2.3440 ppm | 0.0142 ppm | 6.0357 ppm | 0.0900 ppm | 0.9069 ppm | 0.0045 ppm |
| Concentration per Run 3 | 26.2207 ppm | 2.3502 ppm | 0.0141 ppm | 6.0991 ppm | 0.0903 ppm | 0.8970 ppm | 0.0055 ppm |
| Concentration RSD | 0.9 % | 0.3 % | 0.5 % | 0.6 % | 0.4 % | 0.6 % | 16.7 % |

| | 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 | 5.2536 ppm | 0.1244 ppm | 0.2348 ppm | 2.9363 ppm | 0.0013 ppm | 0.2011 ppm |
| Concentration per Run 1 | -0.0003 ppm | 5.3902 ppm | 0.1255 ppm | 0.2346 ppm | 2.9604 ppm | 0.0016 ppm | 0.2027 ppm |
| Concentration per Run 2 | 0.0002 ppm | 5.2140 ppm | 0.1253 ppm | 0.2348 ppm | 2.9338 ppm | 0.0020 ppm | 0.2014 ppm |
| Concentration per Run 3 | -0.0008 ppm | 5.1567 ppm | 0.1225 ppm | 0.2349 ppm | 2.9147 ppm | 0.0002 ppm | 0.1993 ppm |
| Concentration RSD | 169.6 % | 2.3 % | 1.4 % | 0.1 % | 0.8 % | 74.7 % | 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 | 0.5714 ppm | 98.6945 % | 101.2066 % | 82.6844 % | 107.7267 % | 115.0157 % | 107.7632 % |
| Concentration per Run 1 | 0.5757 ppm | 98.2611 % | 101.1312 % | 82.5825 % | 107.3475 % | 115.2349 % | 107.8156 % |
| Concentration per Run 2 | 0.5744 ppm | 98.1712 % | 101.2604 % | 82.5168 % | 107.1528 % | 114.5074 % | 107.8942 % |
| Concentration per Run 3 | 0.5642 ppm | 99.6513 % | 101.2281 % | 82.9538 % | 108.6797 % | 115.3048 % | 107.5799 % |
| Concentration RSD | 1.1 % | 0.8 % | 0.1 % | 0.3 % | 0.8 % | 0.4 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474309-15d2 WG2012713
Analysis started at: 12/23/2024 6:48:35 PM
Rack 2
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 | 0.0011 ppm | 47.3427 ppm | 0.0320 ppm | 0.0039 ppm | 0.1330 ppm | 0.0018 ppm | 13.3287 ppm |
| Concentration per Run 1 | 0.0009 ppm | 47.3282 ppm | 0.0328 ppm | 0.0038 ppm | 0.1325 ppm | 0.0018 ppm | 13.3418 ppm |
| Concentration per Run 2 | 0.0013 ppm | 47.1951 ppm | 0.0317 ppm | 0.0037 ppm | 0.1336 ppm | 0.0018 ppm | 13.3407 ppm |
| Concentration per Run 3 | 0.0012 ppm | 47.5048 ppm | 0.0316 ppm | 0.0041 ppm | 0.1330 ppm | 0.0018 ppm | 13.3036 ppm |
| Concentration RSD | 18.5 % | 0.3 % | 2.2 % | 4.9 % | 0.4 % | 0.9 % | 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 | 0.0011 ppm | 0.0465 ppm | 0.0936 ppm | 0.1301 ppm | 94.8551 ppm | 4.5500 ppm | 0.0851 ppm |
| Concentration per Run 1 | 0.0011 ppm | 0.0468 ppm | 0.0937 ppm | 0.1297 ppm | 94.0809 ppm | 4.5454 ppm | 0.0861 ppm |
| Concentration per Run 2 | 0.0012 ppm | 0.0464 ppm | 0.0941 ppm | 0.1312 ppm | 95.6649 ppm | 4.5468 ppm | 0.0852 ppm |
| Concentration per Run 3 | 0.0010 ppm | 0.0462 ppm | 0.0930 ppm | 0.1293 ppm | 94.8194 ppm | 4.5577 ppm | 0.0840 ppm |
| Concentration RSD | 11.0 % | 0.7 % | 0.6 % | 0.8 % | 0.8 % | 0.1 % | 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 | 22.5415 ppm | 0.9012 ppm | 0.0043 ppm | 2.8498 ppm | 0.0863 ppm | 0.0641 ppm | 0.0008 ppm |
| Concentration per Run 1 | 22.7187 ppm | 0.8994 ppm | 0.0044 ppm | 2.8464 ppm | 0.0870 ppm | 0.0644 ppm | -0.0014 ppm |
| Concentration per Run 2 | 22.6351 ppm | 0.9043 ppm | 0.0043 ppm | 2.8462 ppm | 0.0863 ppm | 0.0639 ppm | 0.0043 ppm |
| Concentration per Run 3 | 22.2707 ppm | 0.9000 ppm | 0.0041 ppm | 2.8568 ppm | 0.0854 ppm | 0.0640 ppm | -0.0006 ppm |
| Concentration RSD | 1.1 % | 0.3 % | 4.5 % | 0.2 % | 0.9 % | 0.4 % | 409.7 % |

| | 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 | 0.0028 ppm | 3.8533 ppm | 0.0020 ppm | 0.0795 ppm | 1.9526 ppm | 0.0015 ppm | 0.1642 ppm |
| Concentration per Run 1 | 0.0033 ppm | 3.9036 ppm | 0.0018 ppm | 0.0791 ppm | 1.9582 ppm | 0.0019 ppm | 0.1655 ppm |
| Concentration per Run 2 | 0.0015 ppm | 3.8383 ppm | 0.0019 ppm | 0.0800 ppm | 1.9614 ppm | 0.0012 ppm | 0.1643 ppm |
| Concentration per Run 3 | 0.0036 ppm | 3.8181 ppm | 0.0022 ppm | 0.0793 ppm | 1.9382 ppm | 0.0013 ppm | 0.1627 ppm |
| Concentration RSD | 40.6 % | 1.2 % | 9.9 % | 0.6 % | 0.6 % | 25.1 % | 0.9 % |

| | 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 | 0.2634 ppm | 100.5486 % | 102.6551 % | 88.3341 % | 104.4526 % | 111.2000 % | 105.5849 % |
| Concentration per Run 1 | 0.2646 ppm | 100.3595 % | 102.9268 % | 88.5422 % | 104.7636 % | 111.2088 % | 105.5635 % |
| Concentration per Run 2 | 0.2636 ppm | 100.3270 % | 101.9627 % | 88.2894 % | 104.3076 % | 111.0483 % | 105.6162 % |
| Concentration per Run 3 | 0.2618 ppm | 100.9592 % | 103.0757 % | 88.1708 % | 104.2866 % | 111.3430 % | 105.5750 % |
| Concentration RSD | 0.5 % | 0.4 % | 0.6 % | 0.2 % | 0.3 % | 0.1 % | 0.0 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 6:53:02 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 | 0.4926 ppm | 0.4945 ppm | 0.4633 ppm | 0.4537 ppm | 0.5093 ppm | 0.4951 ppm | 0.4864 ppm |
| Concentration per Run 1 | 0.4941 ppm | 0.4935 ppm | 0.4632 ppm | 0.4591 ppm | 0.5095 ppm | 0.4936 ppm | 0.4862 ppm |
| Concentration per Run 2 | 0.4917 ppm | 0.4949 ppm | 0.4630 ppm | 0.4517 ppm | 0.5082 ppm | 0.4945 ppm | 0.4846 ppm |
| Concentration per Run 3 | 0.4921 ppm | 0.4952 ppm | 0.4638 ppm | 0.4502 ppm | 0.5103 ppm | 0.4973 ppm | 0.4885 ppm |
| Recovery Percentage 1 | 98.524 % | 98.908 % | 92.665 % | 90.731 % | 101.864 % | 99.029 % | 97.289 % |
| Concentration RSD | 0.3 % | 0.2 % | 0.1 % | 1.0 % | 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 | 0.4773 ppm | 0.4989 ppm | 0.4834 ppm | 0.4911 ppm | 0.5028 ppm | 5.3697 ppm | 0.5265 ppm |
| Concentration per Run 1 | 0.4804 ppm | 0.5030 ppm | 0.4861 ppm | 0.4933 ppm | 0.5046 ppm | 5.3479 ppm | 0.5265 ppm |
| Concentration per Run 2 | 0.4741 ppm | 0.4961 ppm | 0.4812 ppm | 0.4902 ppm | 0.5015 ppm | 5.3360 ppm | 0.5201 ppm |
| Concentration per Run 3 | 0.4773 ppm | 0.4977 ppm | 0.4829 ppm | 0.4898 ppm | 0.5025 ppm | 5.4252 ppm | 0.5330 ppm |
| Recovery Percentage 1 | 95.451 % | 99.790 % | 96.681 % | 98.219 % | 100.568 % | 107.395 % | 105.307 % |
| Concentration RSD | 0.7 % | 0.7 % | 0.5 % | 0.4 % | 0.3 % | 0.9 % | 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 | 0.4865 ppm | 0.4830 ppm | 0.4820 ppm | 10.4215 ppm | 0.4959 ppm | 0.4890 ppm | 0.4932 ppm |
| Concentration per Run 1 | 0.4897 ppm | 0.4819 ppm | 0.4820 ppm | 10.4300 ppm | 0.4977 ppm | 0.4894 ppm | 0.4958 ppm |
| Concentration per Run 2 | 0.4840 ppm | 0.4831 ppm | 0.4793 ppm | 10.4028 ppm | 0.4943 ppm | 0.4907 ppm | 0.4892 ppm |
| Concentration per Run 3 | 0.4858 ppm | 0.4841 ppm | 0.4846 ppm | 10.4318 ppm | 0.4957 ppm | 0.4870 ppm | 0.4945 ppm |
| Recovery Percentage 1 | 97.301 % | 96.606 % | 96.394 % | 104.215 % | 99.178 % | 97.809 % | 98.633 % |
| Concentration RSD | 0.6 % | 0.2 % | 0.6 % | 0.2 % | 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 | 0.4783 ppm | 5.2219 ppm | 0.5080 ppm | 0.5426 ppm | 0.4824 ppm | 0.4904 ppm | 0.4958 ppm |
| Concentration per Run 1 | 0.4805 ppm | 5.2544 ppm | 0.5096 ppm | 0.5419 ppm | 0.4839 ppm | 0.4927 ppm | 0.4980 ppm |
| Concentration per Run 2 | 0.4769 ppm | 5.1916 ppm | 0.5072 ppm | 0.5394 ppm | 0.4811 ppm | 0.4907 ppm | 0.4952 ppm |
| Concentration per Run 3 | 0.4776 ppm | 5.2197 ppm | 0.5071 ppm | 0.5465 ppm | 0.4823 ppm | 0.4877 ppm | 0.4943 ppm |
| Recovery Percentage 1 | 95.664 % | 99.465 % | 101.598 % | 108.517 % | 96.488 % | 98.075 % | 99.168 % |
| Concentration RSD | 0.4 % | 0.6 % | 0.3 % | 0.7 % | 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 | 0.4797 ppm | 99.4411 % | 98.9384 % | 94.5742 % | 95.5854 % | 97.9417 % | 95.8038 % |
| Concentration per Run 1 | 0.4815 ppm | 98.6444 % | 99.4962 % | 94.9708 % | 95.1096 % | 98.5135 % | 96.0776 % |
| Concentration per Run 2 | 0.4764 ppm | 99.8881 % | 98.5856 % | 93.9977 % | 96.0603 % | 97.1548 % | 95.5773 % |
| Concentration per Run 3 | 0.4813 ppm | 99.7908 % | 98.7334 % | 94.7541 % | 95.5864 % | 98.1569 % | 95.7565 % |
| Recovery Percentage 1 | 95.949 % | | | | | | |
| Concentration RSD | 0.6 % | 0.7 % | 0.5 % | 0.5 % | 0.5 % | 0.7 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 6:57:28 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 | -0.0012 ppm | -0.0017 ppm | 0.0014 ppm | 0.0000 ppm | 0.0000 ppm | 0.0012 ppm |
| Concentration per Run 1 | -0.0003 ppm | -0.0022 ppm | -0.0014 ppm | 0.0022 ppm | 0.0000 ppm | 0.0000 ppm | 0.0026 ppm |
| Concentration per Run 2 | 0.0002 ppm | -0.0010 ppm | -0.0020 ppm | 0.0007 ppm | 0.0001 ppm | 0.0000 ppm | 0.0003 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0003 ppm | -0.0017 ppm | 0.0015 ppm | 0.0001 ppm | 0.0000 ppm | 0.0006 ppm |
| Recovery Percentage 1 | -1.128 % | -1.160 % | -33.564 % | 4.770 % | 0.494 % | 0.555 % | 1.151 % |
| Concentration RSD | 395.8 % | 85.4 % | 16.7 % | 51.2 % | 133.9 % | 39.0 % | 110.9 % |

| | 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 | -0.0003 ppm | 0.0001 ppm | -0.0002 ppm | 0.0036 ppm | 0.0158 ppm | -0.0004 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0003 ppm | 0.0001 ppm | -0.0003 ppm | 0.0036 ppm | 0.0175 ppm | -0.0003 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0005 ppm | 0.0001 ppm | -0.0004 ppm | 0.0033 ppm | 0.0142 ppm | -0.0005 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0001 ppm | 0.0001 ppm | 0.0001 ppm | 0.0040 ppm | 0.0158 ppm | -0.0003 ppm |
| Recovery Percentage 1 | 0.934 % | -2.911 % | 1.017 % | -2.167 % | 7.254 % | 0.633 % | -3.652 % |
| Concentration RSD | 62.1 % | 68.2 % | 38.5 % | 117.2 % | 10.6 % | 10.2 % | 36.0 % |

| | 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 | -0.0012 ppm | 0.0001 ppm | 0.0019 ppm | 0.0121 ppm | -0.0001 ppm | 0.0002 ppm | 0.0018 ppm |
| Concentration per Run 1 | -0.0009 ppm | 0.0001 ppm | 0.0018 ppm | 0.0113 ppm | 0.0000 ppm | -0.0001 ppm | 0.0007 ppm |
| Concentration per Run 2 | -0.0018 ppm | 0.0001 ppm | 0.0020 ppm | 0.0122 ppm | -0.0004 ppm | 0.0006 ppm | 0.0019 ppm |
| Concentration per Run 3 | -0.0010 ppm | 0.0000 ppm | 0.0019 ppm | 0.0129 ppm | 0.0000 ppm | 0.0000 ppm | 0.0028 ppm |
| Recovery Percentage 1 | -1.240 % | 0.523 % | 3.794 % | 0.607 % | -0.506 % | 1.692 % | 3.636 % |
| Concentration RSD | 41.0 % | 118.8 % | 5.2 % | 6.5 % | 195.2 % | 215.3 % | 57.7 % |

| | 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 | 0.0018 ppm | 0.0010 ppm | 0.0001 ppm | -0.0002 ppm | 0.0002 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0014 ppm | 0.0024 ppm | 0.0011 ppm | 0.0001 ppm | -0.0002 ppm | 0.0003 ppm | 0.0000 ppm |
| Concentration per Run 2 | -0.0019 ppm | 0.0017 ppm | 0.0014 ppm | 0.0001 ppm | -0.0001 ppm | 0.0002 ppm | 0.0001 ppm |
| Concentration per Run 3 | 0.0003 ppm | 0.0013 ppm | 0.0005 ppm | 0.0001 ppm | -0.0003 ppm | 0.0000 ppm | 0.0002 ppm |
| Recovery Percentage 1 | -0.374 % | 0.360 % | 1.967 % | 0.814 % | -1.810 % | 0.930 % | 1.084 % |
| Concentration RSD | 4,423.9 % | 30.1 % | 45.0 % | 28.5 % | 36.6 % | 76.3 % | 83.9 % |

| | 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 | -0.0003 ppm | 97.6318 % | 98.1904 % | 96.2868 % | 97.5904 % | 99.0313 % | 97.5775 % |
| Concentration per Run 1 | -0.0004 ppm | 97.0387 % | 98.5877 % | 95.9405 % | 97.7185 % | 99.5823 % | 97.8608 % |
| Concentration per Run 2 | -0.0001 ppm | 97.7115 % | 97.9143 % | 96.4058 % | 97.5762 % | 98.9241 % | 97.2977 % |
| Concentration per Run 3 | -0.0003 ppm | 98.1452 % | 98.0690 % | 96.5141 % | 97.4765 % | 98.5875 % | 97.5738 % |
| Recovery Percentage 1 | -5.385 % | | | | | | |
| Concentration RSD | 63.0 % | 0.6 % | 0.4 % | 0.3 % | 0.1 % | 0.5 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012730-1 WG2012730
Analysis started at: 12/23/2024 7:14:41 PM
Rack 2
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 | -0.0001 ppm | 0.0011 ppm | -0.0014 ppm | 0.0009 ppm | 0.0001 ppm | 0.0000 ppm | 0.0123 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0002 ppm | -0.0005 ppm | 0.0012 ppm | 0.0001 ppm | 0.0000 ppm | 0.0124 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0040 ppm | -0.0013 ppm | 0.0013 ppm | 0.0002 ppm | 0.0000 ppm | 0.0100 ppm |
| Concentration per Run 3 | -0.0003 ppm | -0.0003 ppm | -0.0025 ppm | 0.0002 ppm | 0.0001 ppm | 0.0000 ppm | 0.0145 ppm |
| Recovery Percentage 1 | -1.525 % | 1.144 % | -28.731 % | 2.976 % | 1.209 % | -0.127 % | 12.315 % |
| Concentration RSD | 205.4 % | 213.9 % | 71.2 % | 68.9 % | 31.1 % | 327.4 % | 18.3 % |

| | 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 | 0.0000 ppm | -0.0001 ppm | -0.0006 ppm | 0.0050 ppm | 0.0178 ppm | -0.0004 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0000 ppm | -0.0001 ppm | -0.0007 ppm | 0.0053 ppm | 0.0207 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0000 ppm | 0.0001 ppm | -0.0005 ppm | 0.0047 ppm | 0.0126 ppm | -0.0008 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0001 ppm | -0.0001 ppm | -0.0005 ppm | 0.0049 ppm | 0.0200 ppm | -0.0004 ppm |
| Recovery Percentage 1 | -1.831 % | 0.003 % | -0.597 % | -5.714 % | 9.953 % | 0.710 % | -3.529 % |
| Concentration RSD | 54.3 % | 20,819.6 % | 192.8 % | 23.2 % | 6.2 % | 25.5 % | 116.1 % |

| | 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 | 0.0016 ppm | 0.0001 ppm | 0.0004 ppm | 0.0215 ppm | -0.0005 ppm | -0.0004 ppm | 0.0030 ppm |
| Concentration per Run 1 | 0.0018 ppm | 0.0002 ppm | 0.0005 ppm | 0.0209 ppm | -0.0003 ppm | 0.0002 ppm | 0.0040 ppm |
| Concentration per Run 2 | 0.0022 ppm | 0.0000 ppm | 0.0003 ppm | 0.0222 ppm | -0.0003 ppm | -0.0011 ppm | 0.0030 ppm |
| Concentration per Run 3 | 0.0007 ppm | 0.0002 ppm | 0.0003 ppm | 0.0215 ppm | -0.0009 ppm | -0.0003 ppm | 0.0019 ppm |
| Recovery Percentage 1 | 1.563 % | 1.321 % | 0.719 % | 1.077 % | -1.948 % | -4.126 % | 5.923 % |
| Concentration RSD | 48.8 % | 81.0 % | 42.5 % | 3.1 % | 70.8 % | 167.0 % | 34.4 % |

| | 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 | 0.0093 ppm | 0.0010 ppm | 0.0001 ppm | -0.0001 ppm | -0.0017 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0013 ppm | 0.0107 ppm | 0.0012 ppm | 0.0001 ppm | -0.0002 ppm | -0.0016 ppm | 0.0001 ppm |
| Concentration per Run 2 | 0.0020 ppm | 0.0103 ppm | 0.0003 ppm | 0.0001 ppm | 0.0000 ppm | -0.0010 ppm | 0.0001 ppm |
| Concentration per Run 3 | -0.0012 ppm | 0.0069 ppm | 0.0016 ppm | 0.0001 ppm | -0.0001 ppm | -0.0025 ppm | 0.0000 ppm |
| Recovery Percentage 1 | -1.696 % | 1.859 % | 2.088 % | 1.071 % | -1.150 % | -8.399 % | 0.729 % |
| Concentration RSD | 1,099.1 % | 22.2 % | 64.7 % | 25.0 % | 89.5 % | 43.5 % | 101.6 % |

| | 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 | -0.0003 ppm | 109.0811 % | 99.3110 % | 102.4494 % | 101.0988 % | 97.8021 % | 99.6098 % |
| Concentration per Run 1 | -0.0002 ppm | 110.1047 % | 99.1425 % | 102.3489 % | 101.3342 % | 97.8178 % | 99.2953 % |
| Concentration per Run 2 | -0.0002 ppm | 109.1425 % | 99.7653 % | 102.4357 % | 101.3429 % | 97.9542 % | 99.6276 % |
| Concentration per Run 3 | -0.0004 ppm | 107.9959 % | 99.0251 % | 102.5636 % | 100.6192 % | 97.6342 % | 99.9063 % |
| Recovery Percentage 1 | -5.767 % | | | | | | |
| Concentration RSD | 43.2 % | 1.0 % | 0.4 % | 0.1 % | 0.4 % | 0.2 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012730-2 WG2012730
Analysis started at: 12/23/2024 7:19:25 PM
Rack 2
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 | 0.0464 ppm | 1.9544 ppm | 0.1047 ppm | 0.8240 ppm | 1.9447 ppm | 0.0477 ppm | 9.7342 ppm |
| Concentration per Run 1 | 0.0462 ppm | 1.9673 ppm | 0.1046 ppm | 0.8184 ppm | 1.9479 ppm | 0.0478 ppm | 9.7589 ppm |
| Concentration per Run 2 | 0.0464 ppm | 1.9538 ppm | 0.1039 ppm | 0.8242 ppm | 1.9446 ppm | 0.0477 ppm | 9.7501 ppm |
| Concentration per Run 3 | 0.0465 ppm | 1.9420 ppm | 0.1057 ppm | 0.8293 ppm | 1.9415 ppm | 0.0475 ppm | 9.6935 ppm |
| Concentration RSD | 0.4 % | 0.6 % | 0.8 % | 0.7 % | 0.2 % | 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 | 0.0467 ppm | 0.4611 ppm | 0.1846 ppm | 0.2392 ppm | 0.9617 ppm | 10.3672 ppm | 0.0002 ppm |
| Concentration per Run 1 | 0.0465 ppm | 0.4589 ppm | 0.1843 ppm | 0.2386 ppm | 0.9634 ppm | 10.3753 ppm | 0.0002 ppm |
| Concentration per Run 2 | 0.0466 ppm | 0.4598 ppm | 0.1840 ppm | 0.2395 ppm | 0.9640 ppm | 10.3846 ppm | 0.0007 ppm |
| Concentration per Run 3 | 0.0469 ppm | 0.4645 ppm | 0.1854 ppm | 0.2395 ppm | 0.9577 ppm | 10.3416 ppm | -0.0004 ppm |
| Concentration RSD | 0.5 % | 0.6 % | 0.4 % | 0.2 % | 0.4 % | 0.2 % | 319.9 % |

| | 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 | 9.2333 ppm | 0.4802 ppm | 0.9796 ppm | 10.2591 ppm | 0.4605 ppm | 0.5105 ppm | 0.4588 ppm |
| Concentration per Run 1 | 9.2024 ppm | 0.4804 ppm | 0.9748 ppm | 10.2565 ppm | 0.4603 ppm | 0.5106 ppm | 0.4595 ppm |
| Concentration per Run 2 | 9.2206 ppm | 0.4816 ppm | 0.9747 ppm | 10.2605 ppm | 0.4599 ppm | 0.5096 ppm | 0.4577 ppm |
| Concentration per Run 3 | 9.2769 ppm | 0.4785 ppm | 0.9892 ppm | 10.2602 ppm | 0.4613 ppm | 0.5115 ppm | 0.4593 ppm |
| Concentration RSD | 0.4 % | 0.3 % | 0.9 % | 0.0 % | 0.2 % | 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 | 0.1059 ppm | 0.7322 ppm | 0.9219 ppm | 0.9997 ppm | 0.9385 ppm | 0.1125 ppm | 0.4845 ppm |
| Concentration per Run 1 | 0.1056 ppm | 0.7303 ppm | 0.9250 ppm | 1.0023 ppm | 0.9383 ppm | 0.1125 ppm | 0.4837 ppm |
| Concentration per Run 2 | 0.1058 ppm | 0.7316 ppm | 0.9157 ppm | 0.9980 ppm | 0.9370 ppm | 0.1120 ppm | 0.4844 ppm |
| Concentration per Run 3 | 0.1065 ppm | 0.7345 ppm | 0.9248 ppm | 0.9988 ppm | 0.9401 ppm | 0.1129 ppm | 0.4853 ppm |
| Concentration RSD | 0.4 % | 0.3 % | 0.6 % | 0.2 % | 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 | 0.4472 ppm | 100.4587 % | 98.2267 % | 90.5004 % | 94.6060 % | 96.8910 % | 94.4751 % |
| Concentration per Run 1 | 0.4460 ppm | 100.6340 % | 98.1702 % | 90.2098 % | 94.4048 % | 96.8273 % | 94.0909 % |
| Concentration per Run 2 | 0.4450 ppm | 100.2717 % | 97.8055 % | 90.7454 % | 94.9227 % | 96.5795 % | 94.8105 % |
| Concentration per Run 3 | 0.4508 ppm | 100.4703 % | 98.7043 % | 90.5461 % | 94.4905 % | 97.2663 % | 94.5239 % |
| Concentration RSD | 0.7 % | 0.2 % | 0.5 % | 0.3 % | 0.3 % | 0.4 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2475241-02 WG2012730
Analysis started at: 12/23/2024 7:23:54 PM
Rack 2
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 | -0.0001 ppm | 0.0002 ppm | -0.0009 ppm | 0.0139 ppm | 0.0105 ppm | 0.0000 ppm | 9.6416 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0029 ppm | 0.0002 ppm | 0.0142 ppm | 0.0105 ppm | 0.0000 ppm | 9.6526 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0013 ppm | -0.0011 ppm | 0.0146 ppm | 0.0104 ppm | 0.0000 ppm | 9.6098 ppm |
| Concentration per Run 3 | -0.0002 ppm | -0.0012 ppm | -0.0017 ppm | 0.0130 ppm | 0.0105 ppm | 0.0000 ppm | 9.6625 ppm |
| Concentration RSD | 259.6 % | 1,525.5 % | 115.7 % | 5.9 % | 0.4 % | 129.0 % | 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 | -0.0003 ppm | 0.0002 ppm | -0.0003 ppm | 0.0035 ppm | 0.3230 ppm | 0.0007 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0002 ppm | 0.0000 ppm | -0.0001 ppm | 0.0029 ppm | 0.3287 ppm | 0.0010 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0006 ppm | 0.0002 ppm | -0.0003 ppm | 0.0044 ppm | 0.3210 ppm | 0.0005 ppm |
| Concentration per Run 3 | -0.0002 ppm | -0.0004 ppm | 0.0004 ppm | -0.0005 ppm | 0.0033 ppm | 0.3193 ppm | 0.0007 ppm |
| Concentration RSD | 51.5 % | 161.5 % | 106.7 % | 55.8 % | 21.7 % | 1.6 % | 33.7 % |

| | 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 | 3.7104 ppm | 0.0633 ppm | 0.0031 ppm | 24.7931 ppm | -0.0001 ppm | 0.0006 ppm | 0.0020 ppm |
| Concentration per Run 1 | 3.7218 ppm | 0.0635 ppm | 0.0033 ppm | 24.7877 ppm | 0.0000 ppm | 0.0002 ppm | 0.0035 ppm |
| Concentration per Run 2 | 3.7111 ppm | 0.0630 ppm | 0.0031 ppm | 24.8661 ppm | 0.0001 ppm | 0.0003 ppm | 0.0010 ppm |
| Concentration per Run 3 | 3.6983 ppm | 0.0633 ppm | 0.0030 ppm | 24.7254 ppm | -0.0003 ppm | 0.0013 ppm | 0.0015 ppm |
| Concentration RSD | 0.3 % | 0.4 % | 5.4 % | 0.3 % | 322.5 % | 106.3 % | 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 | 0.0000 ppm | 0.7787 ppm | 0.0004 ppm | 0.0275 ppm | -0.0002 ppm | -0.0013 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0009 ppm | 0.7744 ppm | 0.0008 ppm | 0.0276 ppm | -0.0002 ppm | -0.0011 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0005 ppm | 0.7828 ppm | 0.0004 ppm | 0.0274 ppm | -0.0002 ppm | -0.0021 ppm | 0.0000 ppm |
| Concentration per Run 3 | -0.0005 ppm | 0.7788 ppm | 0.0001 ppm | 0.0275 ppm | -0.0002 ppm | -0.0009 ppm | 0.0001 ppm |
| Concentration RSD | 5,419.6 % | 0.5 % | 79.9 % | 0.3 % | 13.0 % | 46.6 % | 62.0 % |

| | 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 | 100.5662 % | 98.4469 % | 92.0008 % | 94.5033 % | 96.8512 % | 94.3027 % |
| Concentration per Run 1 | 0.0001 ppm | 100.3779 % | 98.3193 % | 92.3000 % | 94.2893 % | 96.7355 % | 94.4008 % |
| Concentration per Run 2 | 0.0000 ppm | 100.2682 % | 98.9805 % | 91.8853 % | 94.2694 % | 97.3640 % | 94.0407 % |
| Concentration per Run 3 | -0.0001 ppm | 101.0525 % | 98.0407 % | 91.8173 % | 94.9512 % | 96.4541 % | 94.4666 % |
| Concentration RSD | 398.1 % | 0.4 % | 0.5 % | 0.3 % | 0.4 % | 0.5 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012730-3 WG2012730
Analysis started at: 12/23/2024 7:28:44 PM
Rack 2
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 | 0.0451 ppm | 1.9065 ppm | 0.1027 ppm | 0.8199 ppm | 1.9004 ppm | 0.0465 ppm | 18.5899 ppm |
| Concentration per Run 1 | 0.0448 ppm | 1.9111 ppm | 0.1013 ppm | 0.8254 ppm | 1.8923 ppm | 0.0464 ppm | 18.5611 ppm |
| Concentration per Run 2 | 0.0452 ppm | 1.9084 ppm | 0.1046 ppm | 0.8158 ppm | 1.9108 ppm | 0.0467 ppm | 18.6118 ppm |
| Concentration per Run 3 | 0.0452 ppm | 1.9000 ppm | 0.1022 ppm | 0.8187 ppm | 1.8979 ppm | 0.0465 ppm | 18.5968 ppm |
| Concentration RSD | 0.5 % | 0.3 % | 1.7 % | 0.6 % | 0.5 % | 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 | 0.0460 ppm | 0.4461 ppm | 0.1793 ppm | 0.2303 ppm | 0.9357 ppm | 10.4452 ppm | 0.0011 ppm |
| Concentration per Run 1 | 0.0460 ppm | 0.4463 ppm | 0.1794 ppm | 0.2317 ppm | 0.9346 ppm | 10.4443 ppm | 0.0016 ppm |
| Concentration per Run 2 | 0.0459 ppm | 0.4448 ppm | 0.1790 ppm | 0.2301 ppm | 0.9358 ppm | 10.4521 ppm | 0.0007 ppm |
| Concentration per Run 3 | 0.0461 ppm | 0.4474 ppm | 0.1795 ppm | 0.2291 ppm | 0.9368 ppm | 10.4392 ppm | 0.0009 ppm |
| Concentration RSD | 0.3 % | 0.3 % | 0.1 % | 0.6 % | 0.1 % | 0.1 % | 41.4 % |

| | 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 | 12.5331 ppm | 0.5240 ppm | 0.9618 ppm | 33.9135 ppm | 0.4469 ppm | 0.4955 ppm | 0.4498 ppm |
| Concentration per Run 1 | 12.5515 ppm | 0.5232 ppm | 0.9527 ppm | 33.9700 ppm | 0.4484 ppm | 0.4949 ppm | 0.4489 ppm |
| Concentration per Run 2 | 12.4984 ppm | 0.5241 ppm | 0.9656 ppm | 33.9583 ppm | 0.4452 ppm | 0.4965 ppm | 0.4483 ppm |
| Concentration per Run 3 | 12.5493 ppm | 0.5247 ppm | 0.9671 ppm | 33.8121 ppm | 0.4472 ppm | 0.4951 ppm | 0.4522 ppm |
| Concentration RSD | 0.2 % | 0.1 % | 0.8 % | 0.3 % | 0.4 % | 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 | 0.1036 ppm | 1.4907 ppm | 0.8971 ppm | 0.9963 ppm | 0.9150 ppm | 0.1078 ppm | 0.4742 ppm |
| Concentration per Run 1 | 0.1029 ppm | 1.4913 ppm | 0.8992 ppm | 0.9956 ppm | 0.9177 ppm | 0.1073 ppm | 0.4752 ppm |
| Concentration per Run 2 | 0.1043 ppm | 1.4859 ppm | 0.8947 ppm | 0.9983 ppm | 0.9129 ppm | 0.1071 ppm | 0.4733 ppm |
| Concentration per Run 3 | 0.1036 ppm | 1.4949 ppm | 0.8974 ppm | 0.9952 ppm | 0.9144 ppm | 0.1088 ppm | 0.4742 ppm |
| Concentration RSD | 0.7 % | 0.3 % | 0.3 % | 0.2 % | 0.3 % | 0.9 % | 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 | 0.4422 ppm | 98.4595 % | 98.2756 % | 88.1270 % | 92.4927 % | 96.2652 % | 92.9166 % |
| Concentration per Run 1 | 0.4432 ppm | 98.0601 % | 98.2730 % | 88.2329 % | 92.2151 % | 96.1951 % | 92.9872 % |
| Concentration per Run 2 | 0.4399 ppm | 99.1649 % | 98.3431 % | 88.0861 % | 93.0922 % | 96.4517 % | 92.9820 % |
| Concentration per Run 3 | 0.4434 ppm | 98.1536 % | 98.2107 % | 88.0620 % | 92.1709 % | 96.1487 % | 92.7805 % |
| Concentration RSD | 0.4 % | 0.6 % | 0.1 % | 0.1 % | 0.6 % | 0.2 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012730-4 WG2012730
Analysis started at: 12/23/2024 7:33:23 PM
Rack 2
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 | 0.0000 ppm | 0.0015 ppm | 0.0003 ppm | 0.0139 ppm | 0.0106 ppm | 0.0000 ppm | 9.7228 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0007 ppm | 0.0003 ppm | 0.0135 ppm | 0.0107 ppm | 0.0000 ppm | 9.7930 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0041 ppm | -0.0002 ppm | 0.0136 ppm | 0.0105 ppm | 0.0000 ppm | 9.6879 ppm |
| Concentration per Run 3 | 0.0001 ppm | -0.0004 ppm | 0.0007 ppm | 0.0144 ppm | 0.0106 ppm | 0.0000 ppm | 9.6875 ppm |
| Concentration RSD | 386.6 % | 159.4 % | 171.2 % | 3.7 % | 0.6 % | 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 | -0.0004 ppm | 0.0001 ppm | -0.0002 ppm | 0.0036 ppm | 0.3180 ppm | 0.0004 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0003 ppm | 0.0000 ppm | -0.0003 ppm | 0.0037 ppm | 0.3232 ppm | 0.0002 ppm |
| Concentration per Run 2 | -0.0002 ppm | -0.0002 ppm | 0.0000 ppm | -0.0002 ppm | 0.0037 ppm | 0.3173 ppm | 0.0008 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0007 ppm | 0.0002 ppm | -0.0002 ppm | 0.0033 ppm | 0.3136 ppm | 0.0001 ppm |
| Concentration RSD | 81.7 % | 73.2 % | 186.1 % | 25.6 % | 6.6 % | 1.5 % | 103.2 % |

| | 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 | 3.7173 ppm | 0.0638 ppm | 0.0035 ppm | 24.8246 ppm | -0.0004 ppm | 0.0001 ppm | 0.0009 ppm |
| Concentration per Run 1 | 3.7167 ppm | 0.0644 ppm | 0.0036 ppm | 24.6306 ppm | -0.0009 ppm | -0.0008 ppm | 0.0003 ppm |
| Concentration per Run 2 | 3.7083 ppm | 0.0635 ppm | 0.0032 ppm | 24.9628 ppm | -0.0003 ppm | 0.0005 ppm | 0.0009 ppm |
| Concentration per Run 3 | 3.7269 ppm | 0.0634 ppm | 0.0036 ppm | 24.8805 ppm | 0.0001 ppm | 0.0005 ppm | 0.0014 ppm |
| Concentration RSD | 0.3 % | 0.8 % | 6.8 % | 0.7 % | 139.4 % | 1,090.1 % | 60.6 % |

| | 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 | 0.0000 ppm | 0.7754 ppm | 0.0004 ppm | 0.0278 ppm | -0.0001 ppm | -0.0016 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0006 ppm | 0.7735 ppm | 0.0008 ppm | 0.0277 ppm | -0.0002 ppm | -0.0016 ppm | 0.0001 ppm |
| Concentration per Run 2 | 0.0010 ppm | 0.7755 ppm | 0.0000 ppm | 0.0278 ppm | 0.0001 ppm | -0.0023 ppm | 0.0002 ppm |
| Concentration per Run 3 | -0.0015 ppm | 0.7770 ppm | 0.0005 ppm | 0.0278 ppm | -0.0003 ppm | -0.0009 ppm | 0.0001 ppm |
| Concentration RSD | 3,451.7 % | 0.2 % | 102.6 % | 0.2 % | 127.4 % | 46.9 % | 52.5 % |

| | 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 | -0.0004 ppm | 100.3447 % | 97.9223 % | 92.5528 % | 94.1616 % | 96.5545 % | 94.8390 % |
| Concentration per Run 1 | -0.0003 ppm | 100.2646 % | 97.1318 % | 92.5499 % | 94.1336 % | 95.6794 % | 94.9792 % |
| Concentration per Run 2 | -0.0004 ppm | 100.6275 % | 98.3424 % | 92.5635 % | 94.7098 % | 96.8242 % | 94.9405 % |
| Concentration per Run 3 | -0.0005 ppm | 100.1421 % | 98.2927 % | 92.5450 % | 93.6414 % | 97.1599 % | 94.5974 % |
| Concentration RSD | 29.0 % | 0.3 % | 0.7 % | 0.0 % | 0.6 % | 0.8 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2475241-04 WG2012730
Analysis started at: 12/23/2024 7:37:50 PM
Rack 2
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 | 0.0000 ppm | 0.0217 ppm | -0.0008 ppm | 0.0078 ppm | 0.0604 ppm | 0.0001 ppm | 5.1042 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0211 ppm | 0.0000 ppm | 0.0069 ppm | 0.0602 ppm | 0.0001 ppm | 5.0826 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0217 ppm | -0.0016 ppm | 0.0085 ppm | 0.0603 ppm | 0.0001 ppm | 5.1124 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0223 ppm | -0.0008 ppm | 0.0081 ppm | 0.0605 ppm | 0.0000 ppm | 5.1176 ppm |
| Concentration RSD | 2,524.9 % | 2.8 % | 105.3 % | 10.6 % | 0.2 % | 30.0 % | 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 | 0.0002 ppm | 0.0000 ppm | 0.0000 ppm | 0.0023 ppm | 0.4509 ppm | 0.0003 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0001 ppm | 0.0001 ppm | -0.0001 ppm | 0.0021 ppm | 0.4564 ppm | 0.0006 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | -0.0001 ppm | -0.0001 ppm | 0.0023 ppm | 0.4530 ppm | -0.0001 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0004 ppm | 0.0000 ppm | 0.0001 ppm | 0.0024 ppm | 0.4432 ppm | 0.0003 ppm |
| Concentration RSD | 1,328.1 % | 130.8 % | 504.6 % | 1,272.4 % | 7.1 % | 1.5 % | 130.1 % |

| | 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 | 2.4309 ppm | 0.1026 ppm | 0.0006 ppm | 14.1921 ppm | 0.0011 ppm | 0.0002 ppm | 0.0023 ppm |
| Concentration per Run 1 | 2.4248 ppm | 0.1021 ppm | 0.0006 ppm | 14.1838 ppm | 0.0011 ppm | 0.0003 ppm | 0.0026 ppm |
| Concentration per Run 2 | 2.4386 ppm | 0.1028 ppm | 0.0005 ppm | 14.3017 ppm | 0.0013 ppm | -0.0006 ppm | 0.0024 ppm |
| Concentration per Run 3 | 2.4294 ppm | 0.1028 ppm | 0.0006 ppm | 14.0908 ppm | 0.0009 ppm | 0.0008 ppm | 0.0018 ppm |
| Concentration RSD | 0.3 % | 0.4 % | 10.8 % | 0.7 % | 17.5 % | 373.0 % | 17.9 % |

| | 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 | 0.0003 ppm | 0.6755 ppm | 0.0004 ppm | 0.0360 ppm | -0.0003 ppm | -0.0016 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0017 ppm | 0.6706 ppm | 0.0010 ppm | 0.0360 ppm | -0.0003 ppm | -0.0007 ppm | 0.0001 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.6752 ppm | -0.0004 ppm | 0.0359 ppm | -0.0002 ppm | -0.0028 ppm | 0.0001 ppm |
| Concentration per Run 3 | -0.0011 ppm | 0.6807 ppm | 0.0007 ppm | 0.0361 ppm | -0.0004 ppm | -0.0012 ppm | 0.0000 ppm |
| Concentration RSD | 482.2 % | 0.8 % | 173.7 % | 0.2 % | 24.8 % | 71.9 % | 22.5 % |

| | 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 | 0.0015 ppm | 101.4910 % | 98.5336 % | 93.9400 % | 96.0566 % | 97.3844 % | 95.9037 % |
| Concentration per Run 1 | 0.0016 ppm | 101.7652 % | 98.9647 % | 93.9165 % | 96.5527 % | 97.6254 % | 95.9999 % |
| Concentration per Run 2 | 0.0016 ppm | 101.0945 % | 98.4959 % | 93.5559 % | 95.4769 % | 97.0410 % | 95.6708 % |
| Concentration per Run 3 | 0.0014 ppm | 101.6132 % | 98.1402 % | 94.3476 % | 96.1402 % | 97.4867 % | 96.0403 % |
| Concentration RSD | 7.9 % | 0.3 % | 0.4 % | 0.4 % | 0.6 % | 0.3 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2475241-06 WG2012730
Analysis started at: 12/23/2024 7:42:17 PM
Rack 2
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 | 0.0000 ppm | 0.0033 ppm | -0.0003 ppm | 0.0118 ppm | 0.0135 ppm | 0.0000 ppm | 5.2338 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0018 ppm | 0.0009 ppm | 0.0122 ppm | 0.0135 ppm | 0.0000 ppm | 5.2267 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0027 ppm | 0.0000 ppm | 0.0115 ppm | 0.0135 ppm | 0.0000 ppm | 5.2670 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0056 ppm | -0.0018 ppm | 0.0118 ppm | 0.0135 ppm | 0.0000 ppm | 5.2076 ppm |
| Concentration RSD | 450.2 % | 59.9 % | 459.1 % | 2.8 % | 0.3 % | 211.6 % | 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 | -0.0005 ppm | -0.0001 ppm | -0.0004 ppm | 0.0016 ppm | 0.4262 ppm | 0.0008 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0004 ppm | 0.0000 ppm | -0.0006 ppm | 0.0005 ppm | 0.4283 ppm | 0.0012 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0003 ppm | 0.0001 ppm | -0.0003 ppm | 0.0022 ppm | 0.4321 ppm | 0.0005 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0006 ppm | -0.0003 ppm | -0.0003 ppm | 0.0022 ppm | 0.4183 ppm | 0.0007 ppm |
| Concentration RSD | 65.4 % | 38.5 % | 286.3 % | 44.7 % | 61.9 % | 1.7 % | 43.2 % |

| | 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 | 2.4378 ppm | 0.0101 ppm | 0.0001 ppm | 22.7389 ppm | 0.0000 ppm | 0.0008 ppm | 0.0025 ppm |
| Concentration per Run 1 | 2.4332 ppm | 0.0101 ppm | 0.0000 ppm | 22.7236 ppm | 0.0005 ppm | 0.0009 ppm | 0.0036 ppm |
| Concentration per Run 2 | 2.4465 ppm | 0.0102 ppm | 0.0001 ppm | 22.6601 ppm | -0.0003 ppm | 0.0016 ppm | 0.0018 ppm |
| Concentration per Run 3 | 2.4338 ppm | 0.0101 ppm | 0.0001 ppm | 22.8329 ppm | -0.0002 ppm | 0.0000 ppm | 0.0021 ppm |
| Concentration RSD | 0.3 % | 0.7 % | 131.4 % | 0.4 % | 3,329.0 % | 93.4 % | 39.2 % |

| | 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 | 0.8029 ppm | 0.0004 ppm | 0.0231 ppm | -0.0003 ppm | -0.0011 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0011 ppm | 0.7929 ppm | 0.0001 ppm | 0.0232 ppm | -0.0002 ppm | -0.0019 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.8100 ppm | 0.0006 ppm | 0.0229 ppm | -0.0005 ppm | -0.0005 ppm | 0.0001 ppm |
| Concentration per Run 3 | 0.0005 ppm | 0.8057 ppm | 0.0006 ppm | 0.0232 ppm | -0.0001 ppm | -0.0007 ppm | 0.0001 ppm |
| Concentration RSD | 163.1 % | 1.1 % | 69.9 % | 0.6 % | 77.5 % | 74.3 % | 21.0 % |

| | 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 | 0.0001 ppm | 101.1135 % | 99.0741 % | 92.9874 % | 95.3739 % | 97.3316 % | 94.9242 % |
| Concentration per Run 1 | 0.0000 ppm | 100.9695 % | 98.8219 % | 92.8225 % | 95.5435 % | 97.3091 % | 94.5814 % |
| Concentration per Run 2 | 0.0002 ppm | 100.9528 % | 98.5511 % | 92.4723 % | 94.9593 % | 96.7619 % | 94.7979 % |
| Concentration per Run 3 | 0.0000 ppm | 101.4181 % | 99.8493 % | 93.6673 % | 95.6187 % | 97.9239 % | 95.3933 % |
| Concentration RSD | 106.3 % | 0.3 % | 0.7 % | 0.7 % | 0.4 % | 0.6 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2475101-10 WG2011905
Analysis started at: 12/23/2024 7:47:21 PM
Rack 2
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 | -0.0001 ppm | 0.0006 ppm | -0.0005 ppm | 0.0007 ppm | 0.0001 ppm | 0.0000 ppm | 0.0080 ppm |
| Concentration per Run 1 | 0.0002 ppm | -0.0001 ppm | 0.0000 ppm | 0.0007 ppm | 0.0000 ppm | 0.0000 ppm | 0.0083 ppm |
| Concentration per Run 2 | -0.0003 ppm | -0.0015 ppm | -0.0007 ppm | 0.0003 ppm | 0.0000 ppm | 0.0000 ppm | 0.0094 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0034 ppm | -0.0008 ppm | 0.0011 ppm | 0.0001 ppm | 0.0000 ppm | 0.0063 ppm |
| Recovery Percentage 1 | -1.936 % | 0.609 % | -9.922 % | 2.407 % | 0.542 % | -0.319 % | 8.002 % |
| Concentration RSD | 300.0 % | 414.4 % | 89.3 % | 55.5 % | 75.4 % | 122.0 % | 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 | -0.0001 ppm | -0.0003 ppm | 0.0005 ppm | 0.0000 ppm | 0.0067 ppm | 0.0146 ppm | -0.0005 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0004 ppm | 0.0007 ppm | -0.0001 ppm | 0.0066 ppm | 0.0115 ppm | -0.0009 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0002 ppm | 0.0007 ppm | 0.0001 ppm | 0.0066 ppm | 0.0251 ppm | -0.0004 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0003 ppm | 0.0001 ppm | 0.0001 ppm | 0.0069 ppm | 0.0071 ppm | -0.0003 ppm |
| Recovery Percentage 1 | -1.796 % | -3.131 % | 4.822 % | 0.259 % | 13.382 % | 0.582 % | -5.487 % |
| Concentration RSD | 52.6 % | 21.7 % | 74.8 % | 332.4 % | 2.3 % | 64.5 % | 65.2 % |

| | 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 | 0.0002 ppm | -0.0005 ppm | 0.0074 ppm | -0.0003 ppm | 0.0003 ppm | 0.0006 ppm |
| Concentration per Run 1 | 0.0008 ppm | 0.0001 ppm | -0.0006 ppm | 0.0072 ppm | 0.0001 ppm | -0.0003 ppm | 0.0003 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0002 ppm | -0.0006 ppm | 0.0088 ppm | -0.0002 ppm | 0.0004 ppm | 0.0001 ppm |
| Concentration per Run 3 | 0.0014 ppm | 0.0002 ppm | -0.0005 ppm | 0.0062 ppm | -0.0006 ppm | 0.0008 ppm | 0.0013 ppm |
| Recovery Percentage 1 | 0.701 % | 1.597 % | -1.084 % | 0.371 % | -1.036 % | 2.951 % | 1.132 % |
| Concentration RSD | 102.3 % | 34.1 % | 15.0 % | 17.5 % | 141.6 % | 202.2 % | 107.9 % |

| | 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 | 0.0014 ppm | -0.0009 ppm | 0.0001 ppm | -0.0004 ppm | 0.0007 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0020 ppm | 0.0007 ppm | -0.0012 ppm | 0.0001 ppm | -0.0003 ppm | 0.0009 ppm | 0.0000 ppm |
| Concentration per Run 2 | -0.0005 ppm | 0.0022 ppm | -0.0010 ppm | 0.0001 ppm | -0.0004 ppm | 0.0007 ppm | 0.0000 ppm |
| Concentration per Run 3 | -0.0018 ppm | 0.0013 ppm | -0.0005 ppm | 0.0000 ppm | -0.0003 ppm | 0.0006 ppm | 0.0003 ppm |
| Recovery Percentage 1 | -14.291 % | 0.280 % | -1.818 % | 0.660 % | -3.572 % | 3.693 % | 1.021 % |
| Concentration RSD | 59.2 % | 55.0 % | 37.4 % | 44.3 % | 20.5 % | 20.1 % | 150.9 % |

| | 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 | -0.0005 ppm | 95.2204 % | 97.4980 % | 95.7722 % | 99.1015 % | 100.5582 % | 98.4425 % |
| Concentration per Run 1 | -0.0006 ppm | 94.7568 % | 97.3151 % | 95.1326 % | 98.9502 % | 100.5730 % | 98.4264 % |
| Concentration per Run 2 | -0.0004 ppm | 94.8880 % | 97.5192 % | 96.1047 % | 98.8916 % | 100.6973 % | 98.4921 % |
| Concentration per Run 3 | -0.0006 ppm | 96.0165 % | 97.6595 % | 96.0793 % | 99.4629 % | 100.4044 % | 98.4089 % |
| Recovery Percentage 1 | -10.720 % | | | | | | |
| Concentration RSD | 20.0 % | 0.7 % | 0.2 % | 0.6 % | 0.3 % | 0.1 % | 0.0 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2475101-04 WG2011905
Analysis started at: 12/23/2024 7:51:49 PM
Rack 2
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 | 0.0000 ppm | 0.2663 ppm | -0.0003 ppm | 0.0500 ppm | 0.2024 ppm | 0.0001 ppm | 265.2994 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.2734 ppm | -0.0006 ppm | 0.0494 ppm | 0.2023 ppm | 0.0001 ppm | 264.8006 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.2670 ppm | -0.0004 ppm | 0.0509 ppm | 0.2025 ppm | 0.0001 ppm | 265.7184 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.2585 ppm | 0.0003 ppm | 0.0496 ppm | 0.2025 ppm | 0.0000 ppm | 265.3792 ppm |
| Concentration RSD | 420.7 % | 2.8 % | 177.0 % | 1.7 % | 0.0 % | 38.6 % | 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 | -0.0006 ppm | 0.1006 ppm | -0.0023 ppm | -0.0001 ppm | 0.3018 ppm | 6.3482 ppm | 0.0397 ppm |
| Concentration per Run 1 | -0.0005 ppm | 0.1019 ppm | -0.0027 ppm | -0.0001 ppm | 0.3005 ppm | 6.3654 ppm | 0.0416 ppm |
| Concentration per Run 2 | -0.0007 ppm | 0.0996 ppm | -0.0024 ppm | 0.0000 ppm | 0.3013 ppm | 6.2775 ppm | 0.0397 ppm |
| Concentration per Run 3 | -0.0005 ppm | 0.1002 ppm | -0.0020 ppm | -0.0002 ppm | 0.3035 ppm | 6.4017 ppm | 0.0377 ppm |
| Concentration RSD | 14.1 % | 1.1 % | 14.9 % | 81.2 % | 0.5 % | 1.0 % | 4.9 % |

| | 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 | 154.0296 ppm | 19.4561 ppm | 0.0012 ppm | 106.9605 ppm | 0.0817 ppm | -0.0009 ppm | 0.0005 ppm |
| Concentration per Run 1 | 155.5483 ppm | 19.4258 ppm | 0.0010 ppm | 107.3213 ppm | 0.0824 ppm | -0.0017 ppm | 0.0019 ppm |
| Concentration per Run 2 | 153.7356 ppm | 19.4839 ppm | 0.0012 ppm | 106.5397 ppm | 0.0811 ppm | -0.0007 ppm | -0.0023 ppm |
| Concentration per Run 3 | 152.8048 ppm | 19.4586 ppm | 0.0012 ppm | 107.0205 ppm | 0.0817 ppm | -0.0004 ppm | 0.0019 ppm |
| Concentration RSD | 0.9 % | 0.1 % | 8.1 % | 0.4 % | 0.8 % | 75.1 % | 466.9 % |

| | 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 | -0.0006 ppm | 10.1418 ppm | -0.0006 ppm | 0.9758 ppm | 0.0047 ppm | -0.0210 ppm | -0.0006 ppm |
| Concentration per Run 1 | -0.0012 ppm | 10.2213 ppm | 0.0002 ppm | 0.9755 ppm | 0.0051 ppm | -0.0211 ppm | -0.0006 ppm |
| Concentration per Run 2 | 0.0007 ppm | 10.1305 ppm | -0.0008 ppm | 0.9760 ppm | 0.0050 ppm | -0.0209 ppm | -0.0006 ppm |
| Concentration per Run 3 | -0.0012 ppm | 10.0736 ppm | -0.0011 ppm | 0.9761 ppm | 0.0041 ppm | -0.0209 ppm | -0.0005 ppm |
| Concentration RSD | 188.3 % | 0.7 % | 126.8 % | 0.0 % | 11.4 % | 0.5 % | 12.5 % |

| | 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 | 0.0281 ppm | 84.7702 % | 92.0857 % | 73.5368 % | 86.2687 % | 94.3392 % | 85.9421 % |
| Concentration per Run 1 | 0.0284 ppm | 83.9531 % | 92.3440 % | 72.9774 % | 86.1565 % | 94.7626 % | 85.8776 % |
| Concentration per Run 2 | 0.0284 ppm | 84.9204 % | 92.0998 % | 73.4070 % | 86.2509 % | 94.6266 % | 85.6435 % |
| Concentration per Run 3 | 0.0275 ppm | 85.4371 % | 91.8135 % | 74.2259 % | 86.3985 % | 93.6285 % | 86.3051 % |
| Concentration RSD | 1.7 % | 0.9 % | 0.3 % | 0.9 % | 0.1 % | 0.7 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2475101-07 WG2011905
Analysis started at: 12/23/2024 7:56:16 PM
Rack 2
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 | 0.0000 ppm | -0.0003 ppm | 0.0005 ppm | 0.1041 ppm | 0.0169 ppm | 0.0000 ppm | 14.6764 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0012 ppm | -0.0004 ppm | 0.1033 ppm | 0.0169 ppm | 0.0000 ppm | 14.7235 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0007 ppm | 0.0013 ppm | 0.1053 ppm | 0.0168 ppm | 0.0000 ppm | 14.7184 ppm |
| Concentration per Run 3 | 0.0001 ppm | -0.0028 ppm | 0.0007 ppm | 0.1036 ppm | 0.0169 ppm | 0.0000 ppm | 14.5871 ppm |
| Concentration RSD | 2,949.9 % | 767.5 % | 160.3 % | 1.0 % | 0.3 % | 145.0 % | 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 | 0.0000 ppm | -0.0001 ppm | 0.0222 ppm | 0.0008 ppm | 0.0096 ppm | 2.0957 ppm | 0.0029 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0004 ppm | 0.0222 ppm | 0.0007 ppm | 0.0098 ppm | 2.1310 ppm | 0.0034 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0002 ppm | 0.0222 ppm | 0.0011 ppm | 0.0110 ppm | 2.0642 ppm | 0.0023 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0003 ppm | 0.0223 ppm | 0.0006 ppm | 0.0081 ppm | 2.0918 ppm | 0.0031 ppm |
| Concentration RSD | 260.2 % | 260.6 % | 0.2 % | 32.8 % | 15.4 % | 1.6 % | 18.6 % |

| | 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 | 5.4513 ppm | 0.0193 ppm | 0.0090 ppm | 71.5672 ppm | 0.0010 ppm | -0.0003 ppm | 0.0000 ppm |
| Concentration per Run 1 | 5.4979 ppm | 0.0194 ppm | 0.0088 ppm | 71.4486 ppm | 0.0011 ppm | -0.0007 ppm | 0.0003 ppm |
| Concentration per Run 2 | 5.4455 ppm | 0.0194 ppm | 0.0091 ppm | 71.3601 ppm | 0.0008 ppm | 0.0002 ppm | 0.0004 ppm |
| Concentration per Run 3 | 5.4106 ppm | 0.0192 ppm | 0.0091 ppm | 71.8930 ppm | 0.0011 ppm | -0.0003 ppm | -0.0007 ppm |
| Concentration RSD | 0.8 % | 0.5 % | 1.7 % | 0.4 % | 17.5 % | 173.4 % | 3,528.5 % |

| | 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 | 17.7385 ppm | -0.0001 ppm | 0.0495 ppm | -0.0004 ppm | -0.0001 ppm | 0.0005 ppm |
| Concentration per Run 1 | 0.0039 ppm | 17.8088 ppm | -0.0003 ppm | 0.0497 ppm | -0.0004 ppm | -0.0007 ppm | 0.0004 ppm |
| Concentration per Run 2 | 0.0016 ppm | 17.7870 ppm | 0.0000 ppm | 0.0498 ppm | -0.0004 ppm | -0.0007 ppm | 0.0005 ppm |
| Concentration per Run 3 | 0.0023 ppm | 17.6196 ppm | 0.0001 ppm | 0.0492 ppm | -0.0003 ppm | 0.0010 ppm | 0.0006 ppm |
| Concentration RSD | 45.1 % | 0.6 % | 221.9 % | 0.6 % | 25.5 % | 688.1 % | 15.7 % |

| | 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 | -0.0005 ppm | 91.1771 % | 95.1811 % | 85.7876 % | 93.0573 % | 97.3584 % | 93.3432 % |
| Concentration per Run 1 | -0.0005 ppm | 90.9136 % | 94.9184 % | 85.3175 % | 93.4090 % | 97.5250 % | 93.5178 % |
| Concentration per Run 2 | -0.0004 ppm | 91.1172 % | 95.0334 % | 86.2150 % | 93.0090 % | 97.1205 % | 93.6309 % |
| Concentration per Run 3 | -0.0005 ppm | 91.5004 % | 95.5914 % | 85.8305 % | 92.7537 % | 97.4297 % | 92.8808 % |
| Concentration RSD | 10.4 % | 0.3 % | 0.4 % | 0.5 % | 0.4 % | 0.2 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 8:02:16 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 | 0.4884 ppm | 0.4886 ppm | 0.4609 ppm | 0.4489 ppm | 0.5034 ppm | 0.4910 ppm | 0.4780 ppm |
| Concentration per Run 1 | 0.4914 ppm | 0.4849 ppm | 0.4592 ppm | 0.4500 ppm | 0.5017 ppm | 0.4893 ppm | 0.4784 ppm |
| Concentration per Run 2 | 0.4882 ppm | 0.4928 ppm | 0.4617 ppm | 0.4481 ppm | 0.5052 ppm | 0.4925 ppm | 0.4771 ppm |
| Concentration per Run 3 | 0.4856 ppm | 0.4882 ppm | 0.4618 ppm | 0.4485 ppm | 0.5034 ppm | 0.4911 ppm | 0.4785 ppm |
| Recovery Percentage 1 | 97.677 % | 97.720 % | 92.179 % | 89.773 % | 100.684 % | 98.191 % | 95.608 % |
| Concentration RSD | 0.6 % | 0.8 % | 0.3 % | 0.2 % | 0.4 % | 0.3 % | 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 | 0.4753 ppm | 0.4973 ppm | 0.4826 ppm | 0.4864 ppm | 0.4858 ppm | 5.3400 ppm | 0.5226 ppm |
| Concentration per Run 1 | 0.4812 ppm | 0.5017 ppm | 0.4864 ppm | 0.4894 ppm | 0.4843 ppm | 5.3282 ppm | 0.5200 ppm |
| Concentration per Run 2 | 0.4707 ppm | 0.4940 ppm | 0.4813 ppm | 0.4849 ppm | 0.4868 ppm | 5.3661 ppm | 0.5281 ppm |
| Concentration per Run 3 | 0.4741 ppm | 0.4961 ppm | 0.4801 ppm | 0.4849 ppm | 0.4863 ppm | 5.3257 ppm | 0.5196 ppm |
| Recovery Percentage 1 | 95.065 % | 99.452 % | 96.523 % | 97.277 % | 97.155 % | 106.800 % | 104.513 % |
| Concentration RSD | 1.1 % | 0.8 % | 0.7 % | 0.5 % | 0.3 % | 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 | 0.4857 ppm | 0.4777 ppm | 0.4778 ppm | 10.4361 ppm | 0.4946 ppm | 0.4863 ppm | 0.4885 ppm |
| Concentration per Run 1 | 0.4892 ppm | 0.4777 ppm | 0.4805 ppm | 10.4075 ppm | 0.4981 ppm | 0.4855 ppm | 0.4936 ppm |
| Concentration per Run 2 | 0.4819 ppm | 0.4777 ppm | 0.4745 ppm | 10.5146 ppm | 0.4911 ppm | 0.4863 ppm | 0.4877 ppm |
| Concentration per Run 3 | 0.4859 ppm | 0.4776 ppm | 0.4784 ppm | 10.3863 ppm | 0.4946 ppm | 0.4872 ppm | 0.4842 ppm |
| Recovery Percentage 1 | 97.135 % | 95.534 % | 95.559 % | 104.361 % | 98.920 % | 97.265 % | 97.699 % |
| Concentration RSD | 0.8 % | 0.0 % | 0.6 % | 0.7 % | 0.7 % | 0.2 % | 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 | 0.4750 ppm | 5.1755 ppm | 0.5052 ppm | 0.5375 ppm | 0.4805 ppm | 0.4878 ppm | 0.4945 ppm |
| Concentration per Run 1 | 0.4745 ppm | 5.2144 ppm | 0.5111 ppm | 0.5371 ppm | 0.4820 ppm | 0.4859 ppm | 0.4983 ppm |
| Concentration per Run 2 | 0.4744 ppm | 5.1526 ppm | 0.5001 ppm | 0.5386 ppm | 0.4792 ppm | 0.4872 ppm | 0.4929 ppm |
| Concentration per Run 3 | 0.4761 ppm | 5.1595 ppm | 0.5045 ppm | 0.5369 ppm | 0.4802 ppm | 0.4903 ppm | 0.4923 ppm |
| Recovery Percentage 1 | 95.003 % | 98.582 % | 101.045 % | 107.508 % | 96.098 % | 97.559 % | 98.898 % |
| Concentration RSD | 0.2 % | 0.7 % | 1.1 % | 0.2 % | 0.3 % | 0.5 % | 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 | 0.4786 ppm | 99.2367 % | 99.6447 % | 94.6614 % | 95.3425 % | 98.3404 % | 95.7822 % |
| Concentration per Run 1 | 0.4840 ppm | 98.6975 % | 99.6499 % | 94.0264 % | 95.4006 % | 97.9624 % | 95.3772 % |
| Concentration per Run 2 | 0.4736 ppm | 99.5737 % | 99.5869 % | 95.0614 % | 95.4819 % | 98.7547 % | 95.9152 % |
| Concentration per Run 3 | 0.4783 ppm | 99.4388 % | 99.6973 % | 94.8965 % | 95.1449 % | 98.3041 % | 96.0543 % |
| Recovery Percentage 1 | 95.725 % | | | | | | |
| Concentration RSD | 1.1 % | 0.5 % | 0.1 % | 0.6 % | 0.2 % | 0.4 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 8:06:46 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 | -0.0033 ppm | -0.0016 ppm | 0.0005 ppm | 0.0000 ppm | 0.0000 ppm | -0.0001 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0018 ppm | -0.0004 ppm | 0.0008 ppm | 0.0001 ppm | 0.0000 ppm | 0.0007 ppm |
| Concentration per Run 2 | 0.0004 ppm | -0.0044 ppm | -0.0024 ppm | 0.0002 ppm | 0.0000 ppm | 0.0000 ppm | 0.0009 ppm |
| Concentration per Run 3 | 0.0002 ppm | -0.0037 ppm | -0.0018 ppm | 0.0004 ppm | 0.0000 ppm | 0.0000 ppm | -0.0018 ppm |
| Recovery Percentage 1 | 4.719 % | -3.266 % | -31.079 % | 1.678 % | 0.128 % | 0.114 % | -0.058 % |
| Concentration RSD | 55.6 % | 41.6 % | 65.9 % | 62.5 % | 351.6 % | 231.1 % | 2,538.4 % |

| | 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 | 0.0002 ppm | -0.0001 ppm | 0.0010 ppm | 0.0116 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0004 ppm | 0.0002 ppm | 0.0001 ppm | 0.0013 ppm | 0.0120 ppm | 0.0000 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | 0.0001 ppm | -0.0002 ppm | 0.0016 ppm | 0.0103 ppm | 0.0000 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0003 ppm | 0.0001 ppm | -0.0003 ppm | 0.0002 ppm | 0.0126 ppm | 0.0002 ppm |
| Recovery Percentage 1 | 0.212 % | -0.380 % | 1.515 % | -1.489 % | 2.026 % | 0.465 % | 0.658 % |
| Concentration RSD | 650.8 % | 904.4 % | 33.4 % | 160.3 % | 74.9 % | 10.4 % | 174.0 % |

| | 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 | 0.0021 ppm | 0.0168 ppm | -0.0001 ppm | 0.0002 ppm | 0.0018 ppm |
| Concentration per Run 1 | -0.0015 ppm | 0.0001 ppm | 0.0022 ppm | 0.0161 ppm | -0.0003 ppm | 0.0000 ppm | 0.0015 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | 0.0020 ppm | 0.0165 ppm | -0.0002 ppm | 0.0000 ppm | 0.0010 ppm |
| Concentration per Run 3 | -0.0010 ppm | 0.0001 ppm | 0.0020 ppm | 0.0179 ppm | 0.0001 ppm | 0.0005 ppm | 0.0030 ppm |
| Recovery Percentage 1 | -0.825 % | 0.585 % | 4.165 % | 0.842 % | -0.538 % | 1.769 % | 3.672 % |
| Concentration RSD | 96.4 % | 57.3 % | 5.9 % | 5.5 % | 120.3 % | 160.4 % | 56.7 % |

| | 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 | -0.0011 ppm | 0.0012 ppm | -0.0002 ppm | 0.0001 ppm | -0.0002 ppm | 0.0000 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0024 ppm | 0.0003 ppm | 0.0005 ppm | 0.0001 ppm | -0.0001 ppm | -0.0002 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0009 ppm | 0.0020 ppm | -0.0002 ppm | 0.0001 ppm | -0.0002 ppm | 0.0001 ppm | 0.0002 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0012 ppm | -0.0008 ppm | 0.0001 ppm | -0.0002 ppm | 0.0000 ppm | -0.0001 ppm |
| Recovery Percentage 1 | -10.724 % | 0.236 % | -0.317 % | 0.871 % | -1.771 % | -0.175 % | 0.793 % |
| Concentration RSD | 117.2 % | 71.1 % | 400.5 % | 29.7 % | 18.0 % | 504.7 % | 152.5 % |

| | 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 | -0.0007 ppm | 97.0460 % | 97.3039 % | 95.8994 % | 97.5123 % | 98.5765 % | 97.2002 % |
| Concentration per Run 1 | -0.0006 ppm | 96.2676 % | 96.9362 % | 94.9795 % | 97.4674 % | 98.4896 % | 96.7362 % |
| Concentration per Run 2 | -0.0007 ppm | 97.1022 % | 97.3696 % | 96.7791 % | 97.5207 % | 98.2515 % | 97.7958 % |
| Concentration per Run 3 | -0.0009 ppm | 97.7681 % | 97.6059 % | 95.9395 % | 97.5488 % | 98.9884 % | 97.0685 % |
| Recovery Percentage 1 | -14.438 % | | | | | | |
| Concentration RSD | 17.7 % | 0.8 % | 0.3 % | 0.9 % | 0.0 % | 0.4 % | 0.6 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012774-1 WG2012774
Analysis started at: 12/23/2024 8:22:00 PM
Rack 2
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 | -0.0002 ppm | 0.0013 ppm | -0.0018 ppm | -0.0001 ppm | 0.0001 ppm | 0.0000 ppm | 0.0062 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0020 ppm | -0.0035 ppm | -0.0006 ppm | 0.0000 ppm | 0.0000 ppm | 0.0052 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0018 ppm | -0.0014 ppm | 0.0004 ppm | 0.0001 ppm | 0.0000 ppm | 0.0085 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0038 ppm | -0.0003 ppm | -0.0002 ppm | 0.0001 ppm | 0.0000 ppm | 0.0049 ppm |
| Recovery Percentage 1 | -3.693 % | 1.338 % | -35.016 % | -0.416 % | 0.607 % | -0.065 % | 6.203 % |
| Concentration RSD | 95.3 % | 213.0 % | 94.3 % | 411.5 % | 50.6 % | 923.8 % | 31.6 % |

| | 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 | -0.0001 ppm | -0.0002 ppm | -0.0001 ppm | 0.0007 ppm | 0.0177 ppm | -0.0009 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0002 ppm | -0.0002 ppm | 0.0000 ppm | 0.0008 ppm | 0.0182 ppm | -0.0007 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0000 ppm | -0.0001 ppm | 0.0000 ppm | -0.0001 ppm | 0.0166 ppm | -0.0007 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0001 ppm | -0.0002 ppm | -0.0003 ppm | 0.0014 ppm | 0.0182 ppm | -0.0012 ppm |
| Recovery Percentage 1 | -0.156 % | -0.777 % | -1.698 % | -0.958 % | 1.419 % | 0.706 % | -8.510 % |
| Concentration RSD | 263.7 % | 153.0 % | 26.7 % | 223.8 % | 104.5 % | 5.1 % | 31.8 % |

| | 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 | -0.0005 ppm | 0.0001 ppm | -0.0001 ppm | 0.0034 ppm | 0.0001 ppm | 0.0000 ppm | 0.0004 ppm |
| Concentration per Run 1 | -0.0015 ppm | 0.0000 ppm | -0.0003 ppm | 0.0022 ppm | -0.0002 ppm | 0.0009 ppm | -0.0001 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0001 ppm | -0.0001 ppm | 0.0029 ppm | 0.0001 ppm | -0.0006 ppm | -0.0008 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0001 ppm | 0.0002 ppm | 0.0050 ppm | 0.0003 ppm | -0.0005 ppm | 0.0022 ppm |
| Recovery Percentage 1 | -0.523 % | 0.501 % | -0.140 % | 0.168 % | 0.332 % | -0.480 % | 0.838 % |
| Concentration RSD | 168.3 % | 172.0 % | 350.5 % | 43.0 % | 328.5 % | 1,672.8 % | 372.4 % |

| | 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 | -0.0005 ppm | -0.0004 ppm | -0.0003 ppm | 0.0001 ppm | -0.0003 ppm | 0.0001 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0008 ppm | 0.0003 ppm | -0.0009 ppm | 0.0000 ppm | -0.0002 ppm | 0.0005 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0006 ppm | -0.0012 ppm | -0.0002 ppm | 0.0000 ppm | -0.0004 ppm | -0.0005 ppm | 0.0003 ppm |
| Concentration per Run 3 | -0.0016 ppm | -0.0004 ppm | 0.0002 ppm | 0.0001 ppm | -0.0004 ppm | 0.0003 ppm | 0.0000 ppm |
| Recovery Percentage 1 | -5.052 % | -0.088 % | -0.534 % | 0.575 % | -3.182 % | 0.442 % | 1.429 % |
| Concentration RSD | 238.9 % | 169.5 % | 212.4 % | 37.3 % | 44.8 % | 582.6 % | 117.3 % |

| | 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 | -0.0002 ppm | 94.1481 % | 96.7411 % | 95.3125 % | 98.5852 % | 100.5325 % | 98.2978 % |
| Concentration per Run 1 | -0.0002 ppm | 93.7648 % | 96.8104 % | 95.0551 % | 98.8164 % | 100.7511 % | 98.5398 % |
| Concentration per Run 2 | -0.0001 ppm | 94.0547 % | 96.6314 % | 95.3215 % | 98.1558 % | 100.6806 % | 98.2120 % |
| Concentration per Run 3 | -0.0001 ppm | 94.6246 % | 96.7816 % | 95.5608 % | 98.7834 % | 100.1658 % | 98.1415 % |
| Recovery Percentage 1 | -3.057 % | | | | | | |
| Concentration RSD | 53.9 % | 0.5 % | 0.1 % | 0.3 % | 0.4 % | 0.3 % | 0.2 % |

# iCAP Pro Trace 8 Data report
12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012774-2 WG2012774
Analysis started at: 12/23/2024 8:26:35 PM
Rack 2
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 | 0.0529 ppm | 2.2408 ppm | 0.1138 ppm | 0.9150 ppm | 2.1149 ppm | 0.0506 ppm | 9.8621 ppm |
| Concentration per Run 1 | 0.0535 ppm | 2.2416 ppm | 0.1121 ppm | 0.9226 ppm | 2.1212 ppm | 0.0507 ppm | 9.8840 ppm |
| Concentration per Run 2 | 0.0527 ppm | 2.2353 ppm | 0.1147 ppm | 0.9128 ppm | 2.1092 ppm | 0.0503 ppm | 9.8194 ppm |
| Concentration per Run 3 | 0.0527 ppm | 2.2453 ppm | 0.1147 ppm | 0.9097 ppm | 2.1142 ppm | 0.0507 ppm | 9.8831 ppm |
| Concentration RSD | 0.9 % | 0.2 % | 1.3 % | 0.7 % | 0.3 % | 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 | 0.0533 ppm | 0.5221 ppm | 0.2054 ppm | 0.2672 ppm | 0.9968 ppm | 11.0367 ppm | -0.0004 ppm |
| Concentration per Run 1 | 0.0538 ppm | 0.5274 ppm | 0.2067 ppm | 0.2682 ppm | 1.0037 ppm | 11.0037 ppm | -0.0002 ppm |
| Concentration per Run 2 | 0.0533 ppm | 0.5210 ppm | 0.2057 ppm | 0.2675 ppm | 0.9883 ppm | 11.1105 ppm | -0.0007 ppm |
| Concentration per Run 3 | 0.0528 ppm | 0.5177 ppm | 0.2038 ppm | 0.2660 ppm | 0.9985 ppm | 10.9957 ppm | -0.0003 ppm |
| Concentration RSD | 0.9 % | 0.9 % | 0.7 % | 0.4 % | 0.8 % | 0.6 % | 75.9 % |

| | 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 | 10.1725 ppm | 0.4974 ppm | 0.8790 ppm | 11.1666 ppm | 0.5052 ppm | 0.5471 ppm | 0.4273 ppm |
| Concentration per Run 1 | 10.2564 ppm | 0.4985 ppm | 0.8808 ppm | 11.1438 ppm | 0.5093 ppm | 0.5509 ppm | 0.4271 ppm |
| Concentration per Run 2 | 10.1496 ppm | 0.4945 ppm | 0.8786 ppm | 11.3370 ppm | 0.5055 ppm | 0.5458 ppm | 0.4261 ppm |
| Concentration per Run 3 | 10.1116 ppm | 0.4991 ppm | 0.8777 ppm | 11.0189 ppm | 0.5009 ppm | 0.5446 ppm | 0.4285 ppm |
| Concentration RSD | 0.7 % | 0.5 % | 0.2 % | 1.4 % | 0.8 % | 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 | 0.1164 ppm | 1.0219 ppm | 0.9755 ppm | 1.0407 ppm | 0.9953 ppm | 0.1251 ppm | 0.5387 ppm |
| Concentration per Run 1 | 0.1167 ppm | 1.0276 ppm | 0.9792 ppm | 1.0417 ppm | 1.0012 ppm | 0.1273 ppm | 0.5431 ppm |
| Concentration per Run 2 | 0.1157 ppm | 1.0187 ppm | 0.9786 ppm | 1.0435 ppm | 0.9946 ppm | 0.1243 ppm | 0.5378 ppm |
| Concentration per Run 3 | 0.1169 ppm | 1.0194 ppm | 0.9685 ppm | 1.0367 ppm | 0.9901 ppm | 0.1239 ppm | 0.5352 ppm |
| Concentration RSD | 0.6 % | 0.5 % | 0.6 % | 0.3 % | 0.6 % | 1.5 % | 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 | 0.4945 ppm | 95.1881 % | 99.0397 % | 89.5732 % | 95.2004 % | 99.6777 % | 94.7005 % |
| Concentration per Run 1 | 0.4978 ppm | 94.7292 % | 98.9534 % | 88.7363 % | 95.7827 % | 100.0794 % | 94.4776 % |
| Concentration per Run 2 | 0.4948 ppm | 95.2158 % | 99.3060 % | 89.6552 % | 95.0856 % | 99.1815 % | 94.7237 % |
| Concentration per Run 3 | 0.4908 ppm | 95.6193 % | 98.8597 % | 90.3280 % | 94.7329 % | 99.7721 % | 94.9003 % |
| Concentration RSD | 0.7 % | 0.5 % | 0.2 % | 0.9 % | 0.6 % | 0.5 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474270-02 WG2012774
Analysis started at: 12/23/2024 8:31:02 PM
Rack 3
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 | 0.0849 ppm | 0.0001 ppm | 0.0144 ppm | 0.0281 ppm | 0.0000 ppm | 8.7389 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0839 ppm | 0.0003 ppm | 0.0145 ppm | 0.0280 ppm | 0.0000 ppm | 8.7843 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0826 ppm | 0.0009 ppm | 0.0141 ppm | 0.0281 ppm | 0.0000 ppm | 8.7160 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0883 ppm | -0.0008 ppm | 0.0146 ppm | 0.0281 ppm | 0.0000 ppm | 8.7163 ppm |
| Concentration RSD | 755.1 % | 3.5 % | 703.5 % | 2.0 % | 0.2 % | 182.5 % | 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 | -0.0001 ppm | 0.0004 ppm | 0.0000 ppm | 0.0012 ppm | 0.6616 ppm | 2.7929 ppm | 0.0004 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0001 ppm | 0.0001 ppm | 0.0014 ppm | 0.6625 ppm | 2.7650 ppm | 0.0003 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0005 ppm | 0.0001 ppm | 0.0012 ppm | 0.6610 ppm | 2.8076 ppm | 0.0006 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0008 ppm | -0.0001 ppm | 0.0011 ppm | 0.6615 ppm | 2.8061 ppm | 0.0001 ppm |
| Concentration RSD | 6.1 % | 80.9 % | 288.5 % | 10.4 % | 0.1 % | 0.9 % | 73.8 % |

| | 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 | 2.1702 ppm | 0.0517 ppm | 0.0069 ppm | 65.0264 ppm | 0.0005 ppm | 0.0007 ppm | 0.0061 ppm |
| Concentration per Run 1 | 2.1928 ppm | 0.0518 ppm | 0.0071 ppm | 64.4054 ppm | -0.0001 ppm | 0.0011 ppm | 0.0051 ppm |
| Concentration per Run 2 | 2.1725 ppm | 0.0519 ppm | 0.0067 ppm | 65.5818 ppm | 0.0006 ppm | 0.0008 ppm | 0.0065 ppm |
| Concentration per Run 3 | 2.1452 ppm | 0.0515 ppm | 0.0068 ppm | 65.0918 ppm | 0.0008 ppm | 0.0000 ppm | 0.0067 ppm |
| Concentration RSD | 1.1 % | 0.4 % | 2.8 % | 0.9 % | 101.6 % | 85.0 % | 14.0 % |

| | 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 | -0.0011 ppm | 2.3126 ppm | 0.0047 ppm | 0.0657 ppm | 0.0027 ppm | 0.0005 ppm | 0.0005 ppm |
| Concentration per Run 1 | -0.0007 ppm | 2.3277 ppm | 0.0039 ppm | 0.0656 ppm | 0.0027 ppm | 0.0002 ppm | 0.0004 ppm |
| Concentration per Run 2 | -0.0020 ppm | 2.3093 ppm | 0.0047 ppm | 0.0657 ppm | 0.0026 ppm | 0.0006 ppm | 0.0007 ppm |
| Concentration per Run 3 | -0.0006 ppm | 2.3009 ppm | 0.0055 ppm | 0.0657 ppm | 0.0027 ppm | 0.0008 ppm | 0.0004 ppm |
| Concentration RSD | 67.7 % | 0.6 % | 17.5 % | 0.1 % | 2.1 % | 57.2 % | 33.9 % |

| | 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 | 0.0150 ppm | 91.6455 % | 96.1287 % | 87.2878 % | 94.1066 % | 98.5087 % | 93.5366 % |
| Concentration per Run 1 | 0.0151 ppm | 91.1236 % | 95.5651 % | 86.6207 % | 94.4375 % | 97.7754 % | 93.3451 % |
| Concentration per Run 2 | 0.0150 ppm | 91.4925 % | 96.4108 % | 87.5912 % | 93.6829 % | 99.0561 % | 93.9959 % |
| Concentration per Run 3 | 0.0150 ppm | 92.3203 % | 96.4104 % | 87.6514 % | 94.1993 % | 98.6946 % | 93.2689 % |
| Concentration RSD | 0.4 % | 0.7 % | 0.5 % | 0.7 % | 0.4 % | 0.7 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474270-01 WG2012774
Analysis started at: 12/23/2024 8:35:30 PM
Rack 3
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 | 0.0509 ppm | -0.0004 ppm | 0.0114 ppm | 0.1071 ppm | 0.0000 ppm | 5.3013 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0512 ppm | 0.0008 ppm | 0.0103 ppm | 0.1066 ppm | 0.0000 ppm | 5.3075 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0497 ppm | -0.0018 ppm | 0.0112 ppm | 0.1074 ppm | 0.0000 ppm | 5.2852 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0519 ppm | -0.0002 ppm | 0.0127 ppm | 0.1073 ppm | 0.0001 ppm | 5.3111 ppm |
| Concentration RSD | 77.7 % | 2.2 % | 315.8 % | 10.5 % | 0.4 % | 160.2 % | 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 | -0.0001 ppm | -0.0002 ppm | 0.0002 ppm | 0.0001 ppm | 0.0422 ppm | 2.2193 ppm | -0.0002 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0003 ppm | 0.0000 ppm | 0.0000 ppm | 0.0422 ppm | 2.2391 ppm | -0.0001 ppm |
| Concentration per Run 2 | -0.0003 ppm | -0.0002 ppm | 0.0004 ppm | 0.0002 ppm | 0.0424 ppm | 2.2060 ppm | -0.0001 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0001 ppm | 0.0002 ppm | 0.0001 ppm | 0.0419 ppm | 2.2129 ppm | -0.0004 ppm |
| Concentration RSD | 126.2 % | 64.4 % | 103.5 % | 75.3 % | 0.5 % | 0.8 % | 106.3 % |

| | 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 | 1.4597 ppm | 0.0315 ppm | 0.0008 ppm | 28.0604 ppm | 0.0001 ppm | -0.0005 ppm | 0.0012 ppm |
| Concentration per Run 1 | 1.4788 ppm | 0.0315 ppm | 0.0007 ppm | 28.1381 ppm | 0.0001 ppm | 0.0001 ppm | 0.0036 ppm |
| Concentration per Run 2 | 1.4538 ppm | 0.0316 ppm | 0.0008 ppm | 27.9443 ppm | 0.0000 ppm | -0.0011 ppm | 0.0005 ppm |
| Concentration per Run 3 | 1.4464 ppm | 0.0315 ppm | 0.0008 ppm | 28.0989 ppm | 0.0002 ppm | -0.0006 ppm | -0.0005 ppm |
| Concentration RSD | 1.2 % | 0.1 % | 8.7 % | 0.4 % | 144.6 % | 117.5 % | 175.6 % |

| | 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 | -0.0002 ppm | 5.6941 ppm | 0.0004 ppm | 0.0634 ppm | -0.0003 ppm | 0.0003 ppm | 0.0002 ppm |
| Concentration per Run 1 | 0.0005 ppm | 5.7512 ppm | 0.0010 ppm | 0.0631 ppm | -0.0004 ppm | 0.0000 ppm | 0.0001 ppm |
| Concentration per Run 2 | 0.0000 ppm | 5.6835 ppm | -0.0004 ppm | 0.0636 ppm | -0.0002 ppm | 0.0012 ppm | 0.0002 ppm |
| Concentration per Run 3 | -0.0011 ppm | 5.6477 ppm | 0.0007 ppm | 0.0633 ppm | -0.0003 ppm | -0.0002 ppm | 0.0001 ppm |
| Concentration RSD | 370.4 % | 0.9 % | 162.6 % | 0.4 % | 39.5 % | 241.0 % | 17.0 % |

| | 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 | 0.0139 ppm | 93.1533 % | 96.0600 % | 89.9089 % | 95.8733 % | 99.5020 % | 95.5958 % |
| Concentration per Run 1 | 0.0140 ppm | 92.6066 % | 96.3242 % | 89.3831 % | 96.0132 % | 99.7301 % | 95.3478 % |
| Concentration per Run 2 | 0.0141 ppm | 93.4050 % | 95.9201 % | 89.8965 % | 95.7748 % | 99.4899 % | 95.7590 % |
| Concentration per Run 3 | 0.0138 ppm | 93.4483 % | 95.9357 % | 90.4473 % | 95.8319 % | 99.2860 % | 95.6807 % |
| Concentration RSD | 1.0 % | 0.5 % | 0.2 % | 0.6 % | 0.1 % | 0.2 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474146-01 WG2012774
Analysis started at: 12/23/2024 8:39:59 PM
Rack 3
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 | 0.0000 ppm | 0.0252 ppm | -0.0017 ppm | 0.0175 ppm | 0.0204 ppm | 0.0000 ppm | 10.5506 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0269 ppm | -0.0014 ppm | 0.0177 ppm | 0.0205 ppm | 0.0000 ppm | 10.5669 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.0225 ppm | -0.0012 ppm | 0.0174 ppm | 0.0202 ppm | 0.0000 ppm | 10.5091 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0262 ppm | -0.0025 ppm | 0.0175 ppm | 0.0204 ppm | 0.0000 ppm | 10.5757 ppm |
| Concentration RSD | 1,325.1 % | 9.3 % | 42.2 % | 1.0 % | 0.9 % | 76.1 % | 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 | 0.0000 ppm | 0.0030 ppm | 0.0010 ppm | 0.0018 ppm | 1.0553 ppm | 2.0158 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0029 ppm | 0.0010 ppm | 0.0018 ppm | 1.0602 ppm | 2.0369 ppm | 0.0006 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0034 ppm | 0.0011 ppm | 0.0018 ppm | 1.0461 ppm | 2.0025 ppm | 0.0002 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0026 ppm | 0.0010 ppm | 0.0017 ppm | 1.0595 ppm | 2.0079 ppm | -0.0005 ppm |
| Concentration RSD | 714.3 % | 12.5 % | 8.3 % | 3.7 % | 0.8 % | 0.9 % | 587.7 % |

| | 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 | 3.5793 ppm | 1.9908 ppm | 0.0004 ppm | 16.2019 ppm | 0.0082 ppm | -0.0003 ppm | 0.0016 ppm |
| Concentration per Run 1 | 3.6399 ppm | 1.9955 ppm | 0.0003 ppm | 16.1714 ppm | 0.0089 ppm | 0.0008 ppm | 0.0030 ppm |
| Concentration per Run 2 | 3.5493 ppm | 1.9857 ppm | 0.0004 ppm | 16.3271 ppm | 0.0075 ppm | -0.0009 ppm | 0.0000 ppm |
| Concentration per Run 3 | 3.5489 ppm | 1.9912 ppm | 0.0005 ppm | 16.1071 ppm | 0.0080 ppm | -0.0008 ppm | 0.0018 ppm |
| Concentration RSD | 1.5 % | 0.2 % | 15.9 % | 0.7 % | 8.2 % | 331.4 % | 93.4 % |

| | 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 | -0.0003 ppm | 5.2470 ppm | 0.0001 ppm | 0.0592 ppm | 0.0002 ppm | -0.0016 ppm | 0.0001 ppm |
| Concentration per Run 1 | 0.0018 ppm | 5.3366 ppm | -0.0003 ppm | 0.0597 ppm | 0.0002 ppm | -0.0017 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0028 ppm | 5.1784 ppm | 0.0000 ppm | 0.0588 ppm | 0.0001 ppm | -0.0013 ppm | 0.0001 ppm |
| Concentration per Run 3 | 0.0002 ppm | 5.2261 ppm | 0.0006 ppm | 0.0591 ppm | 0.0003 ppm | -0.0019 ppm | 0.0001 ppm |
| Concentration RSD | 781.9 % | 1.5 % | 402.1 % | 0.8 % | 60.6 % | 18.4 % | 37.1 % |

| | 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 | 0.0147 ppm | 93.8655 % | 96.7304 % | 90.7609 % | 96.1597 % | 99.3874 % | 95.4704 % |
| Concentration per Run 1 | 0.0150 ppm | 92.4008 % | 96.7951 % | 90.5203 % | 95.2760 % | 99.7095 % | 95.7120 % |
| Concentration per Run 2 | 0.0146 ppm | 94.4405 % | 97.1145 % | 90.3999 % | 97.1327 % | 99.6337 % | 95.0079 % |
| Concentration per Run 3 | 0.0145 ppm | 94.7551 % | 96.2815 % | 91.3624 % | 96.0703 % | 98.8190 % | 95.6914 % |
| Concentration RSD | 1.8 % | 1.4 % | 0.4 % | 0.6 % | 1.0 % | 0.5 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474293-01 WG2012774
Analysis started at: 12/23/2024 8:49:38 PM
Rack 2
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 | 0.0002 ppm | 0.0437 ppm | 0.0013 ppm | 0.0445 ppm | 0.1057 ppm | 0.0000 ppm | 105.4610 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0481 ppm | 0.0005 ppm | 0.0453 ppm | 0.1056 ppm | 0.0000 ppm | 105.9003 ppm |
| Concentration per Run 2 | 0.0005 ppm | 0.0455 ppm | 0.0010 ppm | 0.0439 ppm | 0.1059 ppm | 0.0000 ppm | 104.9231 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0374 ppm | 0.0025 ppm | 0.0444 ppm | 0.1054 ppm | 0.0000 ppm | 105.5597 ppm |
| Concentration RSD | 91.4 % | 12.8 % | 78.6 % | 1.6 % | 0.2 % | 71.8 % | 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 | 0.0005 ppm | 0.0003 ppm | 0.0051 ppm | 0.0727 ppm | 2.8609 ppm | 0.0080 ppm |
| Concentration per Run 1 | -0.0004 ppm | 0.0005 ppm | 0.0003 ppm | 0.0052 ppm | 0.0745 ppm | 2.8515 ppm | 0.0095 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.0004 ppm | 0.0003 ppm | 0.0050 ppm | 0.0718 ppm | 2.8679 ppm | 0.0066 ppm |
| Concentration per Run 3 | -0.0004 ppm | 0.0005 ppm | 0.0001 ppm | 0.0050 ppm | 0.0716 ppm | 2.8632 ppm | 0.0079 ppm |
| Concentration RSD | 9.2 % | 18.2 % | 39.6 % | 1.4 % | 2.2 % | 0.3 % | 18.1 % |

| | 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 | 39.2076 ppm | 0.0044 ppm | 0.0004 ppm | 152.2645 ppm | 0.0019 ppm | -0.0002 ppm | 0.0018 ppm |
| Concentration per Run 1 | 39.2489 ppm | 0.0043 ppm | 0.0008 ppm | 152.0340 ppm | 0.0020 ppm | 0.0004 ppm | 0.0007 ppm |
| Concentration per Run 2 | 39.3743 ppm | 0.0043 ppm | 0.0001 ppm | 152.4727 ppm | 0.0018 ppm | -0.0010 ppm | 0.0017 ppm |
| Concentration per Run 3 | 38.9997 ppm | 0.0045 ppm | 0.0002 ppm | 152.2870 ppm | 0.0019 ppm | -0.0001 ppm | 0.0031 ppm |
| Concentration RSD | 0.5 % | 2.0 % | 89.6 % | 0.1 % | 4.4 % | 321.2 % | 64.1 % |

| | 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 | 6.5853 ppm | 0.0001 ppm | 0.2277 ppm | 0.0010 ppm | 0.0005 ppm | 0.0007 ppm |
| Concentration per Run 1 | -0.0014 ppm | 6.5948 ppm | 0.0005 ppm | 0.2275 ppm | 0.0010 ppm | 0.0012 ppm | 0.0007 ppm |
| Concentration per Run 2 | 0.0019 ppm | 6.5851 ppm | 0.0003 ppm | 0.2281 ppm | 0.0010 ppm | 0.0000 ppm | 0.0007 ppm |
| Concentration per Run 3 | -0.0003 ppm | 6.5761 ppm | -0.0005 ppm | 0.2274 ppm | 0.0012 ppm | 0.0003 ppm | 0.0006 ppm |
| Concentration RSD | 2,346.0 % | 0.1 % | 530.0 % | 0.2 % | 13.1 % | 137.4 % | 10.6 % |

| | 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 | 0.0277 ppm | 95.7244 % | 97.1822 % | 84.9268 % | 87.9232 % | 94.5243 % | 88.1281 % |
| Concentration per Run 1 | 0.0278 ppm | 96.0246 % | 96.8751 % | 85.1137 % | 87.9714 % | 94.5764 % | 88.2982 % |
| Concentration per Run 2 | 0.0279 ppm | 95.6415 % | 97.5194 % | 85.2967 % | 87.8486 % | 94.6051 % | 88.2260 % |
| Concentration per Run 3 | 0.0274 ppm | 95.5071 % | 97.1521 % | 84.3701 % | 87.9497 % | 94.3915 % | 87.8602 % |
| Concentration RSD | 1.1 % | 0.3 % | 0.3 % | 0.6 % | 0.1 % | 0.1 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012774-3 WG2012774
Analysis started at: 12/23/2024 8:54:22 PM
Rack 3
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 | 0.0551 ppm | 2.3161 ppm | 0.1223 ppm | 0.9897 ppm | 2.2265 ppm | 0.0513 ppm | 119.9133 ppm |
| Concentration per Run 1 | 0.0554 ppm | 2.3257 ppm | 0.1219 ppm | 0.9982 ppm | 2.2177 ppm | 0.0515 ppm | 121.1733 ppm |
| Concentration per Run 2 | 0.0554 ppm | 2.3150 ppm | 0.1223 ppm | 0.9874 ppm | 2.2257 ppm | 0.0513 ppm | 119.3314 ppm |
| Concentration per Run 3 | 0.0545 ppm | 2.3076 ppm | 0.1228 ppm | 0.9834 ppm | 2.2360 ppm | 0.0512 ppm | 119.2352 ppm |
| Concentration RSD | 0.9 % | 0.4 % | 0.4 % | 0.8 % | 0.4 % | 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 | 0.0523 ppm | 0.5013 ppm | 0.2046 ppm | 0.2725 ppm | 1.1795 ppm | 14.0747 ppm | 0.0087 ppm |
| Concentration per Run 1 | 0.0530 ppm | 0.5072 ppm | 0.2068 ppm | 0.2734 ppm | 1.1829 ppm | 13.8624 ppm | 0.0091 ppm |
| Concentration per Run 2 | 0.0522 ppm | 0.4986 ppm | 0.2053 ppm | 0.2733 ppm | 1.1791 ppm | 14.1149 ppm | 0.0091 ppm |
| Concentration per Run 3 | 0.0517 ppm | 0.4980 ppm | 0.2017 ppm | 0.2707 ppm | 1.1765 ppm | 14.2467 ppm | 0.0081 ppm |
| Concentration RSD | 1.2 % | 1.0 % | 1.3 % | 0.6 % | 0.3 % | 1.4 % | 6.5 % |

| | 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 | 52.8732 ppm | 0.4973 ppm | 0.8395 ppm | 161.9882 ppm | 0.4862 ppm | 0.5593 ppm | 0.4312 ppm |
| Concentration per Run 1 | 53.6100 ppm | 0.5018 ppm | 0.8385 ppm | 159.7494 ppm | 0.4919 ppm | 0.5641 ppm | 0.4312 ppm |
| Concentration per Run 2 | 52.7495 ppm | 0.4952 ppm | 0.8402 ppm | 162.8319 ppm | 0.4879 ppm | 0.5586 ppm | 0.4308 ppm |
| Concentration per Run 3 | 52.2602 ppm | 0.4950 ppm | 0.8398 ppm | 163.3833 ppm | 0.4787 ppm | 0.5551 ppm | 0.4317 ppm |
| Concentration RSD | 1.3 % | 0.8 % | 0.1 % | 1.2 % | 1.4 % | 0.8 % | 0.1 % |

| | 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 | 0.1217 ppm | 8.2286 ppm | 0.9361 ppm | 1.2781 ppm | 1.0156 ppm | 0.1232 ppm | 0.5490 ppm |
| Concentration per Run 1 | 0.1207 ppm | 8.2716 ppm | 0.9401 ppm | 1.2771 ppm | 1.0240 ppm | 0.1232 ppm | 0.5548 ppm |
| Concentration per Run 2 | 0.1228 ppm | 8.2752 ppm | 0.9420 ppm | 1.2785 ppm | 1.0184 ppm | 0.1247 ppm | 0.5473 ppm |
| Concentration per Run 3 | 0.1214 ppm | 8.1389 ppm | 0.9262 ppm | 1.2789 ppm | 1.0044 ppm | 0.1217 ppm | 0.5450 ppm |
| Concentration RSD | 0.9 % | 0.9 % | 0.9 % | 0.1 % | 1.0 % | 1.2 % | 0.9 % |

| | 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 | 0.5231 ppm | 86.6560 % | 93.0268 % | 75.7220 % | 87.3860 % | 94.4702 % | 86.7109 % |
| Concentration per Run 1 | 0.5302 ppm | 85.7561 % | 92.1285 % | 75.4818 % | 87.3868 % | 93.9544 % | 86.8654 % |
| Concentration per Run 2 | 0.5244 ppm | 86.6408 % | 93.4244 % | 75.4920 % | 86.9375 % | 94.8852 % | 86.5471 % |
| Concentration per Run 3 | 0.5148 ppm | 87.5711 % | 93.5274 % | 76.1921 % | 87.8338 % | 94.5709 % | 86.7203 % |
| Concentration RSD | 1.5 % | 1.0 % | 0.8 % | 0.5 % | 0.5 % | 0.5 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012774-4 WG2012774
Analysis started at: 12/23/2024 8:58:50 PM
Rack 3
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 | 0.0002 ppm | 0.0431 ppm | 0.0002 ppm | 0.0490 ppm | 0.1098 ppm | 0.0000 ppm | 108.7143 ppm |
| Concentration per Run 1 | 0.0004 ppm | 0.0391 ppm | 0.0007 ppm | 0.0502 ppm | 0.1095 ppm | 0.0000 ppm | 109.2226 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0429 ppm | -0.0007 ppm | 0.0485 ppm | 0.1109 ppm | 0.0000 ppm | 108.7786 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0475 ppm | 0.0007 ppm | 0.0483 ppm | 0.1089 ppm | 0.0000 ppm | 108.1418 ppm |
| Concentration RSD | 108.3 % | 9.8 % | 321.9 % | 2.1 % | 0.9 % | 51.5 % | 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 | -0.0004 ppm | 0.0005 ppm | 0.0003 ppm | 0.0056 ppm | 0.0753 ppm | 2.8141 ppm | 0.0082 ppm |
| Concentration per Run 1 | -0.0005 ppm | 0.0009 ppm | 0.0004 ppm | 0.0058 ppm | 0.0767 ppm | 2.8142 ppm | 0.0096 ppm |
| Concentration per Run 2 | -0.0005 ppm | 0.0000 ppm | 0.0002 ppm | 0.0053 ppm | 0.0745 ppm | 2.8352 ppm | 0.0071 ppm |
| Concentration per Run 3 | -0.0004 ppm | 0.0006 ppm | 0.0003 ppm | 0.0056 ppm | 0.0747 ppm | 2.7929 ppm | 0.0077 ppm |
| Concentration RSD | 13.5 % | 85.8 % | 29.7 % | 5.2 % | 1.6 % | 0.8 % | 16.0 % |

| | 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 | 42.8320 ppm | 0.0043 ppm | 0.0078 ppm | 148.6957 ppm | 0.0026 ppm | -0.0001 ppm | 0.0034 ppm |
| Concentration per Run 1 | 43.2187 ppm | 0.0043 ppm | 0.0080 ppm | 149.2824 ppm | 0.0022 ppm | -0.0002 ppm | 0.0022 ppm |
| Concentration per Run 2 | 42.6272 ppm | 0.0042 ppm | 0.0075 ppm | 147.7319 ppm | 0.0024 ppm | 0.0001 ppm | 0.0027 ppm |
| Concentration per Run 3 | 42.6502 ppm | 0.0043 ppm | 0.0078 ppm | 149.0727 ppm | 0.0031 ppm | -0.0003 ppm | 0.0053 ppm |
| Concentration RSD | 0.8 % | 1.6 % | 3.2 % | 0.6 % | 19.6 % | 164.3 % | 49.7 % |

| | 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 | -0.0012 ppm | 7.0784 ppm | 0.0037 ppm | 0.2353 ppm | 0.0015 ppm | 0.0005 ppm | 0.0008 ppm |
| Concentration per Run 1 | -0.0019 ppm | 7.1233 ppm | 0.0030 ppm | 0.2354 ppm | 0.0016 ppm | -0.0004 ppm | 0.0009 ppm |
| Concentration per Run 2 | 0.0008 ppm | 7.0759 ppm | 0.0041 ppm | 0.2362 ppm | 0.0013 ppm | 0.0009 ppm | 0.0009 ppm |
| Concentration per Run 3 | -0.0026 ppm | 7.0360 ppm | 0.0039 ppm | 0.2343 ppm | 0.0014 ppm | 0.0009 ppm | 0.0007 ppm |
| Concentration RSD | 143.2 % | 0.6 % | 16.2 % | 0.4 % | 10.6 % | 169.0 % | 13.3 % |

| | 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 | 0.0303 ppm | 85.3234 % | 92.3601 % | 77.3086 % | 87.2847 % | 94.9908 % | 87.5519 % |
| Concentration per Run 1 | 0.0306 ppm | 84.5848 % | 91.9858 % | 76.8638 % | 87.3477 % | 94.5543 % | 87.5058 % |
| Concentration per Run 2 | 0.0303 ppm | 85.4909 % | 91.9525 % | 77.4085 % | 87.4602 % | 95.0148 % | 87.4003 % |
| Concentration per Run 3 | 0.0300 ppm | 85.8943 % | 93.1420 % | 77.6537 % | 87.0462 % | 95.4033 % | 87.7497 % |
| Concentration RSD | 1.0 % | 0.8 % | 0.7 % | 0.5 % | 0.2 % | 0.4 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012774-5 WG2012774
Analysis started at: 12/23/2024 9:03:18 PM
Rack 3
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 | 0.0526 ppm | 2.1098 ppm | 0.1179 ppm | 0.9946 ppm | 2.1145 ppm | 0.0487 ppm | 117.7150 ppm |
| Concentration per Run 1 | 0.0530 ppm | 2.1338 ppm | 0.1191 ppm | 1.0048 ppm | 2.1274 ppm | 0.0491 ppm | 118.5075 ppm |
| Concentration per Run 2 | 0.0524 ppm | 2.0938 ppm | 0.1195 ppm | 0.9938 ppm | 2.1063 ppm | 0.0484 ppm | 116.7593 ppm |
| Concentration per Run 3 | 0.0524 ppm | 2.1017 ppm | 0.1150 ppm | 0.9850 ppm | 2.1096 ppm | 0.0486 ppm | 117.8782 ppm |
| Concentration RSD | 0.7 % | 1.0 % | 2.1 % | 1.0 % | 0.5 % | 0.8 % | 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 | 0.0496 ppm | 0.4780 ppm | 0.1947 ppm | 0.2607 ppm | 1.0241 ppm | 13.9317 ppm | 0.0081 ppm |
| Concentration per Run 1 | 0.0501 ppm | 0.4824 ppm | 0.1962 ppm | 0.2627 ppm | 1.0307 ppm | 13.8661 ppm | 0.0084 ppm |
| Concentration per Run 2 | 0.0497 ppm | 0.4779 ppm | 0.1941 ppm | 0.2611 ppm | 1.0158 ppm | 13.9864 ppm | 0.0086 ppm |
| Concentration per Run 3 | 0.0492 ppm | 0.4738 ppm | 0.1939 ppm | 0.2582 ppm | 1.0257 ppm | 13.9428 ppm | 0.0074 ppm |
| Concentration RSD | 0.9 % | 0.9 % | 0.7 % | 0.9 % | 0.7 % | 0.4 % | 7.7 % |

| | 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 | 52.1970 ppm | 0.4814 ppm | 0.8383 ppm | 158.9862 ppm | 0.4797 ppm | 0.5452 ppm | 0.3670 ppm |
| Concentration per Run 1 | 52.6192 ppm | 0.4852 ppm | 0.8385 ppm | 158.6670 ppm | 0.4808 ppm | 0.5478 ppm | 0.3649 ppm |
| Concentration per Run 2 | 52.0778 ppm | 0.4783 ppm | 0.8324 ppm | 159.4450 ppm | 0.4804 ppm | 0.5453 ppm | 0.3645 ppm |
| Concentration per Run 3 | 51.8941 ppm | 0.4806 ppm | 0.8441 ppm | 158.8466 ppm | 0.4779 ppm | 0.5425 ppm | 0.3715 ppm |
| Concentration RSD | 0.7 % | 0.7 % | 0.7 % | 0.3 % | 0.3 % | 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 | 0.1167 ppm | 7.7056 ppm | 0.9371 ppm | 1.2733 ppm | 1.0165 ppm | 0.1188 ppm | 0.5234 ppm |
| Concentration per Run 1 | 0.1170 ppm | 7.7661 ppm | 0.9371 ppm | 1.2798 ppm | 1.0232 ppm | 0.1195 ppm | 0.5274 ppm |
| Concentration per Run 2 | 0.1160 ppm | 7.6800 ppm | 0.9365 ppm | 1.2701 ppm | 1.0143 ppm | 0.1195 ppm | 0.5231 ppm |
| Concentration per Run 3 | 0.1172 ppm | 7.6707 ppm | 0.9376 ppm | 1.2700 ppm | 1.0119 ppm | 0.1176 ppm | 0.5196 ppm |
| Concentration RSD | 0.5 % | 0.7 % | 0.1 % | 0.4 % | 0.6 % | 0.9 % | 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 | 0.5121 ppm | 86.0682 % | 92.8543 % | 75.2689 % | 86.7294 % | 94.1388 % | 86.5585 % |
| Concentration per Run 1 | 0.5152 ppm | 85.4131 % | 92.4638 % | 74.7698 % | 86.8759 % | 94.7595 % | 86.4225 % |
| Concentration per Run 2 | 0.5092 ppm | 86.3284 % | 93.5800 % | 75.5453 % | 87.0605 % | 93.9846 % | 86.9493 % |
| Concentration per Run 3 | 0.5119 ppm | 86.4632 % | 92.5191 % | 75.4915 % | 86.2519 % | 93.6724 % | 86.3039 % |
| Concentration RSD | 0.6 % | 0.7 % | 0.7 % | 0.6 % | 0.5 % | 0.6 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012774-6d5 WG2012774
Analysis started at: 12/23/2024 9:07:47 PM
Rack 3
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 | 0.0083 ppm | -0.0006 ppm | 0.0105 ppm | 0.0214 ppm | 0.0000 ppm | 21.9112 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0090 ppm | -0.0005 ppm | 0.0111 ppm | 0.0216 ppm | 0.0000 ppm | 22.0215 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0073 ppm | -0.0004 ppm | 0.0099 ppm | 0.0214 ppm | 0.0000 ppm | 21.9059 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0086 ppm | -0.0009 ppm | 0.0104 ppm | 0.0213 ppm | 0.0000 ppm | 21.8063 ppm |
| Concentration RSD | 644.9 % | 11.0 % | 41.5 % | 5.6 % | 0.6 % | 68.9 % | 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 | -0.0002 ppm | -0.0001 ppm | -0.0001 ppm | 0.0009 ppm | 0.0168 ppm | 0.5785 ppm | 0.0017 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0001 ppm | -0.0001 ppm | 0.0008 ppm | 0.0166 ppm | 0.6015 ppm | 0.0022 ppm |
| Concentration per Run 2 | -0.0002 ppm | -0.0003 ppm | -0.0001 ppm | 0.0009 ppm | 0.0179 ppm | 0.5675 ppm | 0.0012 ppm |
| Concentration per Run 3 | -0.0002 ppm | -0.0001 ppm | 0.0000 ppm | 0.0009 ppm | 0.0160 ppm | 0.5664 ppm | 0.0016 ppm |
| Concentration RSD | 25.1 % | 153.9 % | 66.2 % | 2.4 % | 5.5 % | 3.4 % | 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 | 8.4889 ppm | 0.0010 ppm | 0.0096 ppm | 29.8377 ppm | 0.0007 ppm | -0.0005 ppm | 0.0161 ppm |
| Concentration per Run 1 | 8.5745 ppm | 0.0009 ppm | 0.0096 ppm | 29.5804 ppm | 0.0003 ppm | -0.0002 ppm | 0.0174 ppm |
| Concentration per Run 2 | 8.4865 ppm | 0.0009 ppm | 0.0096 ppm | 29.7995 ppm | 0.0006 ppm | 0.0000 ppm | 0.0152 ppm |
| Concentration per Run 3 | 8.4056 ppm | 0.0010 ppm | 0.0097 ppm | 30.1331 ppm | 0.0011 ppm | -0.0013 ppm | 0.0157 ppm |
| Concentration RSD | 1.0 % | 4.9 % | 0.9 % | 0.9 % | 57.8 % | 127.5 % | 7.4 % |

| | 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 | -0.0011 ppm | 1.3231 ppm | 0.0082 ppm | 0.0460 ppm | 0.0004 ppm | 0.0003 ppm | 0.0003 ppm |
| Concentration per Run 1 | -0.0004 ppm | 1.3279 ppm | 0.0081 ppm | 0.0465 ppm | 0.0006 ppm | 0.0004 ppm | 0.0002 ppm |
| Concentration per Run 2 | -0.0026 ppm | 1.3285 ppm | 0.0081 ppm | 0.0457 ppm | 0.0004 ppm | -0.0001 ppm | 0.0004 ppm |
| Concentration per Run 3 | -0.0002 ppm | 1.3129 ppm | 0.0084 ppm | 0.0457 ppm | 0.0003 ppm | 0.0008 ppm | 0.0003 ppm |
| Concentration RSD | 122.7 % | 0.7 % | 2.1 % | 1.0 % | 42.3 % | 130.7 % | 33.9 % |

| | 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 | 0.0059 ppm | 94.1300 % | 96.2753 % | 89.9645 % | 93.3950 % | 96.4276 % | 93.2103 % |
| Concentration per Run 1 | 0.0058 ppm | 93.4072 % | 95.6280 % | 89.8705 % | 93.5375 % | 96.4164 % | 93.4051 % |
| Concentration per Run 2 | 0.0060 ppm | 94.1240 % | 96.1907 % | 89.9452 % | 93.1492 % | 96.1456 % | 93.3987 % |
| Concentration per Run 3 | 0.0059 ppm | 94.8588 % | 97.0073 % | 90.0778 % | 93.4984 % | 96.7207 % | 92.8270 % |
| Concentration RSD | 1.5 % | 0.8 % | 0.7 % | 0.1 % | 0.2 % | 0.3 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 9:13:36 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 | 0.4886 ppm | 0.4907 ppm | 0.4579 ppm | 0.4515 ppm | 0.5030 ppm | 0.4912 ppm | 0.4835 ppm |
| Concentration per Run 1 | 0.4914 ppm | 0.4941 ppm | 0.4571 ppm | 0.4558 ppm | 0.4992 ppm | 0.4912 ppm | 0.4833 ppm |
| Concentration per Run 2 | 0.4876 ppm | 0.4879 ppm | 0.4558 ppm | 0.4480 ppm | 0.5063 ppm | 0.4897 ppm | 0.4804 ppm |
| Concentration per Run 3 | 0.4867 ppm | 0.4901 ppm | 0.4609 ppm | 0.4507 ppm | 0.5034 ppm | 0.4926 ppm | 0.4867 ppm |
| Recovery Percentage 1 | 97.718 % | 98.137 % | 91.584 % | 90.295 % | 100.595 % | 98.234 % | 96.694 % |
| Concentration RSD | 0.5 % | 0.6 % | 0.6 % | 0.9 % | 0.7 % | 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 | 0.4770 ppm | 0.4974 ppm | 0.4828 ppm | 0.4871 ppm | 0.4864 ppm | 5.3310 ppm | 0.5206 ppm |
| Concentration per Run 1 | 0.4760 ppm | 0.4970 ppm | 0.4842 ppm | 0.4900 ppm | 0.4860 ppm | 5.3519 ppm | 0.5161 ppm |
| Concentration per Run 2 | 0.4760 ppm | 0.4970 ppm | 0.4813 ppm | 0.4855 ppm | 0.4853 ppm | 5.3337 ppm | 0.5266 ppm |
| Concentration per Run 3 | 0.4790 ppm | 0.4981 ppm | 0.4831 ppm | 0.4859 ppm | 0.4879 ppm | 5.3074 ppm | 0.5193 ppm |
| Recovery Percentage 1 | 95.394 % | 99.475 % | 96.566 % | 97.425 % | 97.276 % | 106.620 % | 104.126 % |
| Concentration RSD | 0.4 % | 0.1 % | 0.3 % | 0.5 % | 0.3 % | 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 | 0.4854 ppm | 0.4797 ppm | 0.4818 ppm | 10.4922 ppm | 0.4944 ppm | 0.4850 ppm | 0.4995 ppm |
| Concentration per Run 1 | 0.4863 ppm | 0.4807 ppm | 0.4799 ppm | 10.4847 ppm | 0.4946 ppm | 0.4844 ppm | 0.5045 ppm |
| Concentration per Run 2 | 0.4836 ppm | 0.4777 ppm | 0.4811 ppm | 10.5703 ppm | 0.4921 ppm | 0.4861 ppm | 0.4932 ppm |
| Concentration per Run 3 | 0.4863 ppm | 0.4806 ppm | 0.4844 ppm | 10.4216 ppm | 0.4964 ppm | 0.4845 ppm | 0.5008 ppm |
| Recovery Percentage 1 | 97.079 % | 95.931 % | 96.364 % | 104.922 % | 98.875 % | 97.001 % | 99.897 % |
| Concentration RSD | 0.3 % | 0.4 % | 0.5 % | 0.7 % | 0.4 % | 0.2 % | 1.2 % |

| | 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 | 0.4740 ppm | 5.1757 ppm | 0.5087 ppm | 0.5358 ppm | 0.4806 ppm | 0.4844 ppm | 0.4951 ppm |
| Concentration per Run 1 | 0.4740 ppm | 5.1955 ppm | 0.5089 ppm | 0.5342 ppm | 0.4834 ppm | 0.4826 ppm | 0.4959 ppm |
| Concentration per Run 2 | 0.4724 ppm | 5.1527 ppm | 0.5042 ppm | 0.5367 ppm | 0.4785 ppm | 0.4849 ppm | 0.4953 ppm |
| Concentration per Run 3 | 0.4755 ppm | 5.1788 ppm | 0.5130 ppm | 0.5366 ppm | 0.4797 ppm | 0.4857 ppm | 0.4941 ppm |
| Recovery Percentage 1 | 94.791 % | 98.584 % | 101.738 % | 107.165 % | 96.111 % | 96.884 % | 99.022 % |
| Concentration RSD | 0.3 % | 0.4 % | 0.9 % | 0.3 % | 0.5 % | 0.3 % | 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 | 0.4789 ppm | 99.1272 % | 98.8636 % | 94.6198 % | 95.7047 % | 97.6261 % | 95.6517 % |
| Concentration per Run 1 | 0.4782 ppm | 99.1296 % | 98.1044 % | 94.5324 % | 96.0595 % | 96.8118 % | 95.7904 % |
| Concentration per Run 2 | 0.4773 ppm | 99.1986 % | 100.0639 % | 94.4430 % | 95.6558 % | 98.8883 % | 95.3995 % |
| Concentration per Run 3 | 0.4813 ppm | 99.0535 % | 98.4224 % | 94.8841 % | 95.3987 % | 97.1783 % | 95.7651 % |
| Recovery Percentage 1 | 95.789 % | | | | | | |
| Concentration RSD | 0.4 % | 0.1 % | 1.1 % | 0.2 % | 0.3 % | 1.1 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 9:25:29 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 | -0.0033 ppm | -0.0013 ppm | 0.0007 ppm | 0.0000 ppm | 0.0000 ppm | -0.0008 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0033 ppm | 0.0004 ppm | 0.0012 ppm | -0.0001 ppm | 0.0000 ppm | -0.0004 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0021 ppm | -0.0019 ppm | 0.0005 ppm | 0.0001 ppm | 0.0000 ppm | -0.0011 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0044 ppm | -0.0026 ppm | 0.0005 ppm | 0.0001 ppm | 0.0000 ppm | -0.0009 ppm |
| Recovery Percentage 1 | 0.175 % | -3.255 % | -26.460 % | 2.482 % | 0.249 % | 0.280 % | -0.802 % |
| Concentration RSD | 743.3 % | 34.9 % | 118.6 % | 58.1 % | 271.3 % | 28.0 % | 43.8 % |

| | 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 | -0.0001 ppm | -0.0006 ppm | 0.0006 ppm | 0.0257 ppm | -0.0003 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0001 ppm | -0.0001 ppm | -0.0005 ppm | 0.0010 ppm | 0.0221 ppm | -0.0001 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0004 ppm | -0.0002 ppm | -0.0007 ppm | 0.0006 ppm | 0.0286 ppm | -0.0007 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0000 ppm | -0.0001 ppm | -0.0005 ppm | 0.0001 ppm | 0.0263 ppm | 0.0001 ppm |
| Recovery Percentage 1 | -0.908 % | -1.182 % | -1.252 % | -5.733 % | 1.111 % | 1.027 % | -2.635 % |
| Concentration RSD | 183.0 % | 222.3 % | 37.1 % | 18.7 % | 79.7 % | 12.7 % | 165.2 % |

| | 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 | -0.0010 ppm | 0.0001 ppm | 0.0024 ppm | 0.0238 ppm | 0.0000 ppm | -0.0002 ppm | 0.0033 ppm |
| Concentration per Run 1 | -0.0012 ppm | 0.0001 ppm | 0.0026 ppm | 0.0241 ppm | -0.0001 ppm | -0.0003 ppm | 0.0040 ppm |
| Concentration per Run 2 | -0.0005 ppm | 0.0000 ppm | 0.0024 ppm | 0.0228 ppm | 0.0001 ppm | 0.0004 ppm | 0.0042 ppm |
| Concentration per Run 3 | -0.0014 ppm | 0.0000 ppm | 0.0023 ppm | 0.0244 ppm | -0.0001 ppm | -0.0007 ppm | 0.0017 ppm |
| Recovery Percentage 1 | -1.024 % | 0.543 % | 4.867 % | 1.188 % | -0.134 % | -2.444 % | 6.608 % |
| Concentration RSD | 49.0 % | 72.8 % | 5.5 % | 3.7 % | 231.0 % | 229.5 % | 42.5 % |

| | 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 | -0.0001 ppm | 0.0004 ppm | 0.0012 ppm | 0.0001 ppm | -0.0002 ppm | 0.0003 ppm | 0.0000 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0008 ppm | 0.0001 ppm | 0.0001 ppm | -0.0002 ppm | 0.0007 ppm | -0.0001 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.0007 ppm | 0.0017 ppm | 0.0001 ppm | -0.0003 ppm | -0.0003 ppm | 0.0000 ppm |
| Concentration per Run 3 | -0.0003 ppm | -0.0003 ppm | 0.0019 ppm | 0.0000 ppm | -0.0003 ppm | 0.0005 ppm | 0.0001 ppm |
| Recovery Percentage 1 | -0.597 % | 0.079 % | 2.425 % | 0.854 % | -2.433 % | 1.399 % | 0.278 % |
| Concentration RSD | 441.2 % | 148.3 % | 83.3 % | 44.0 % | 12.8 % | 195.0 % | 318.3 % |

| | 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 | -0.0007 ppm | 108.6057 % | 100.3799 % | 105.9213 % | 99.7916 % | 98.2973 % | 98.6884 % |
| Concentration per Run 1 | -0.0008 ppm | 109.0135 % | 100.6230 % | 106.0137 % | 99.4527 % | 98.1959 % | 98.2249 % |
| Concentration per Run 2 | -0.0007 ppm | 108.9567 % | 100.3141 % | 105.9003 % | 100.0293 % | 98.5392 % | 99.0146 % |
| Concentration per Run 3 | -0.0007 ppm | 107.8468 % | 100.2025 % | 105.8498 % | 99.8927 % | 98.1568 % | 98.8256 % |
| Recovery Percentage 1 | -14.681 % | | | | | | |
| Concentration RSD | 5.1 % | 0.6 % | 0.2 % | 0.1 % | 0.3 % | 0.2 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474278-01 WG2012774
Analysis started at: 12/23/2024 9:39:37 PM
Rack 3
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 | -0.0008 ppm | 0.0003 ppm | 0.0226 ppm | 0.0053 ppm | 0.0001 ppm | 70.2038 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0015 ppm | 0.0002 ppm | 0.0239 ppm | 0.0053 ppm | 0.0001 ppm | 70.4953 ppm |
| Concentration per Run 2 | 0.0002 ppm | -0.0015 ppm | -0.0009 ppm | 0.0216 ppm | 0.0054 ppm | 0.0001 ppm | 69.8712 ppm |
| Concentration per Run 3 | -0.0002 ppm | -0.0023 ppm | 0.0015 ppm | 0.0222 ppm | 0.0053 ppm | 0.0001 ppm | 70.2450 ppm |
| Concentration RSD | 12,455.4 % | 258.4 % | 435.5 % | 5.3 % | 1.6 % | 11.8 % | 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 | -0.0004 ppm | 0.0000 ppm | 0.0000 ppm | 0.0062 ppm | 0.0428 ppm | 2.0464 ppm | 0.0257 ppm |
| Concentration per Run 1 | -0.0005 ppm | 0.0000 ppm | 0.0001 ppm | 0.0063 ppm | 0.0421 ppm | 2.0594 ppm | 0.0263 ppm |
| Concentration per Run 2 | -0.0004 ppm | 0.0002 ppm | -0.0002 ppm | 0.0060 ppm | 0.0424 ppm | 2.0320 ppm | 0.0257 ppm |
| Concentration per Run 3 | -0.0003 ppm | -0.0003 ppm | 0.0000 ppm | 0.0062 ppm | 0.0439 ppm | 2.0478 ppm | 0.0251 ppm |
| Concentration RSD | 23.1 % | 1,902.0 % | 487.4 % | 1.7 % | 2.3 % | 0.7 % | 2.3 % |

| | 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 | 8.6264 ppm | 0.0029 ppm | 0.0025 ppm | 41.4691 ppm | 0.0025 ppm | 0.0006 ppm | 0.0017 ppm |
| Concentration per Run 1 | 8.7002 ppm | 0.0029 ppm | 0.0024 ppm | 41.3894 ppm | 0.0022 ppm | 0.0007 ppm | 0.0012 ppm |
| Concentration per Run 2 | 8.6411 ppm | 0.0030 ppm | 0.0024 ppm | 41.7427 ppm | 0.0024 ppm | 0.0004 ppm | 0.0008 ppm |
| Concentration per Run 3 | 8.5377 ppm | 0.0030 ppm | 0.0026 ppm | 41.2752 ppm | 0.0028 ppm | 0.0007 ppm | 0.0030 ppm |
| Concentration RSD | 1.0 % | 0.7 % | 5.1 % | 0.6 % | 11.0 % | 27.4 % | 70.8 % |

| | 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 | 0.0003 ppm | 7.8954 ppm | 0.0011 ppm | 0.1760 ppm | -0.0004 ppm | 0.0009 ppm | 0.0002 ppm |
| Concentration per Run 1 | 0.0006 ppm | 7.9720 ppm | 0.0009 ppm | 0.1769 ppm | -0.0003 ppm | 0.0016 ppm | 0.0002 ppm |
| Concentration per Run 2 | 0.0009 ppm | 7.8791 ppm | 0.0012 ppm | 0.1757 ppm | -0.0002 ppm | 0.0000 ppm | 0.0001 ppm |
| Concentration per Run 3 | -0.0006 ppm | 7.8353 ppm | 0.0013 ppm | 0.1753 ppm | -0.0006 ppm | 0.0010 ppm | 0.0003 ppm |
| Concentration RSD | 279.5 % | 0.9 % | 19.5 % | 0.5 % | 43.5 % | 91.8 % | 56.2 % |

| | 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 | 0.0220 ppm | 90.1998 % | 94.8890 % | 84.7846 % | 92.0752 % | 96.9398 % | 91.7889 % |
| Concentration per Run 1 | 0.0225 ppm | 89.5932 % | 94.2519 % | 84.3558 % | 92.3568 % | 96.9589 % | 91.7800 % |
| Concentration per Run 2 | 0.0219 ppm | 90.2043 % | 95.6223 % | 84.5862 % | 91.9230 % | 97.2641 % | 91.5638 % |
| Concentration per Run 3 | 0.0216 ppm | 90.8020 % | 94.7929 % | 85.4118 % | 91.9459 % | 96.5964 % | 92.0228 % |
| Concentration RSD | 2.0 % | 0.7 % | 0.7 % | 0.7 % | 0.3 % | 0.3 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474278-02 WG2012774
Analysis started at: 12/23/2024 9:44:11 PM
Rack 3
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 | 0.0001 ppm | -0.0002 ppm | -0.0012 ppm | 0.0152 ppm | 0.0073 ppm | 0.0000 ppm | 64.3615 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.0055 ppm | -0.0003 ppm | 0.0158 ppm | 0.0073 ppm | 0.0000 ppm | 64.6020 ppm |
| Concentration per Run 2 | 0.0002 ppm | -0.0052 ppm | -0.0023 ppm | 0.0150 ppm | 0.0074 ppm | 0.0000 ppm | 64.4651 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0008 ppm | -0.0010 ppm | 0.0148 ppm | 0.0072 ppm | 0.0000 ppm | 64.0175 ppm |
| Concentration RSD | 77.4 % | 2,862.0 % | 83.3 % | 3.5 % | 1.3 % | 45.9 % | 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 | -0.0004 ppm | 0.0006 ppm | -0.0002 ppm | 0.0019 ppm | 0.0910 ppm | 2.0808 ppm | 0.0193 ppm |
| Concentration per Run 1 | -0.0004 ppm | 0.0006 ppm | -0.0002 ppm | 0.0018 ppm | 0.0906 ppm | 2.1029 ppm | 0.0202 ppm |
| Concentration per Run 2 | -0.0004 ppm | 0.0004 ppm | -0.0003 ppm | 0.0019 ppm | 0.0921 ppm | 2.0648 ppm | 0.0192 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0007 ppm | 0.0000 ppm | 0.0019 ppm | 0.0901 ppm | 2.0748 ppm | 0.0184 ppm |
| Concentration RSD | 17.3 % | 25.0 % | 83.6 % | 2.2 % | 1.2 % | 0.9 % | 4.8 % |

| | 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 | 10.6352 ppm | 0.0958 ppm | 0.0002 ppm | 32.4590 ppm | 0.0050 ppm | 0.0003 ppm | 0.0006 ppm |
| Concentration per Run 1 | 10.6847 ppm | 0.0962 ppm | 0.0005 ppm | 32.4868 ppm | 0.0051 ppm | 0.0000 ppm | 0.0011 ppm |
| Concentration per Run 2 | 10.6222 ppm | 0.0960 ppm | 0.0001 ppm | 32.3188 ppm | 0.0051 ppm | 0.0009 ppm | 0.0016 ppm |
| Concentration per Run 3 | 10.5988 ppm | 0.0951 ppm | 0.0000 ppm | 32.5714 ppm | 0.0050 ppm | 0.0000 ppm | -0.0010 ppm |
| Concentration RSD | 0.4 % | 0.6 % | 142.2 % | 0.4 % | 1.1 % | 180.8 % | 232.9 % |

| | 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 | 9.0531 ppm | 0.0002 ppm | 0.3049 ppm | -0.0005 ppm | 0.0000 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0020 ppm | 9.0810 ppm | 0.0003 ppm | 0.3066 ppm | -0.0005 ppm | 0.0004 ppm | 0.0001 ppm |
| Concentration per Run 2 | 0.0001 ppm | 9.0739 ppm | 0.0001 ppm | 0.3054 ppm | -0.0005 ppm | -0.0005 ppm | 0.0002 ppm |
| Concentration per Run 3 | -0.0024 ppm | 9.0043 ppm | 0.0002 ppm | 0.3027 ppm | -0.0003 ppm | 0.0001 ppm | 0.0001 ppm |
| Concentration RSD | 91.2 % | 0.5 % | 38.6 % | 0.7 % | 26.6 % | 1,850.9 % | 44.3 % |

| | 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 | 0.0062 ppm | 90.1013 % | 94.8228 % | 84.4118 % | 92.6943 % | 97.2174 % | 91.9575 % |
| Concentration per Run 1 | 0.0062 ppm | 89.9631 % | 94.5953 % | 84.0560 % | 93.4168 % | 97.3788 % | 92.0216 % |
| Concentration per Run 2 | 0.0062 ppm | 89.9835 % | 94.3452 % | 84.1577 % | 92.6294 % | 96.6301 % | 91.5493 % |
| Concentration per Run 3 | 0.0062 ppm | 90.3572 % | 95.5280 % | 85.0216 % | 92.0367 % | 97.6433 % | 92.3017 % |
| Concentration RSD | 0.5 % | 0.2 % | 0.7 % | 0.6 % | 0.7 % | 0.5 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474278-03 WG2012774
Analysis started at: 12/23/2024 9:48:40 PM
Rack 3
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 | -0.0027 ppm | -0.0003 ppm | 0.0087 ppm | 0.0067 ppm | 0.0000 ppm | 52.8875 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0017 ppm | 0.0007 ppm | 0.0084 ppm | 0.0067 ppm | 0.0000 ppm | 52.9456 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0041 ppm | 0.0006 ppm | 0.0089 ppm | 0.0067 ppm | 0.0001 ppm | 52.9179 ppm |
| Concentration per Run 3 | -0.0002 ppm | -0.0057 ppm | -0.0022 ppm | 0.0088 ppm | 0.0067 ppm | 0.0000 ppm | 52.7989 ppm |
| Concentration RSD | 70.4 % | 142.7 % | 614.5 % | 3.1 % | 0.3 % | 11.9 % | 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 | -0.0003 ppm | -0.0005 ppm | -0.0001 ppm | 0.0154 ppm | 0.2600 ppm | 1.8556 ppm | 0.0257 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0000 ppm | -0.0001 ppm | 0.0155 ppm | 0.2579 ppm | 1.8847 ppm | 0.0265 ppm |
| Concentration per Run 2 | -0.0003 ppm | -0.0009 ppm | 0.0000 ppm | 0.0155 ppm | 0.2632 ppm | 1.8372 ppm | 0.0255 ppm |
| Concentration per Run 3 | -0.0003 ppm | -0.0008 ppm | -0.0001 ppm | 0.0152 ppm | 0.2589 ppm | 1.8450 ppm | 0.0251 ppm |
| Concentration RSD | 16.1 % | 94.9 % | 61.3 % | 1.1 % | 1.1 % | 1.4 % | 2.9 % |

| | 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 | 10.9805 ppm | 0.0370 ppm | 0.0011 ppm | 19.9314 ppm | 0.0003 ppm | 0.0048 ppm | 0.0009 ppm |
| Concentration per Run 1 | 11.0698 ppm | 0.0371 ppm | 0.0009 ppm | 19.9736 ppm | 0.0004 ppm | 0.0048 ppm | -0.0002 ppm |
| Concentration per Run 2 | 10.9850 ppm | 0.0370 ppm | 0.0012 ppm | 19.9238 ppm | 0.0006 ppm | 0.0048 ppm | 0.0013 ppm |
| Concentration per Run 3 | 10.8866 ppm | 0.0368 ppm | 0.0011 ppm | 19.8969 ppm | -0.0002 ppm | 0.0048 ppm | 0.0016 ppm |
| Concentration RSD | 0.8 % | 0.4 % | 17.3 % | 0.2 % | 148.3 % | 0.5 % | 108.0 % |

| | 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 | -0.0003 ppm | 10.4978 ppm | 0.0007 ppm | 0.4943 ppm | -0.0004 ppm | 0.0004 ppm | -0.0001 ppm |
| Concentration per Run 1 | -0.0010 ppm | 10.5885 ppm | 0.0015 ppm | 0.4991 ppm | -0.0004 ppm | 0.0003 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0007 ppm | 10.5287 ppm | 0.0003 ppm | 0.4928 ppm | -0.0004 ppm | 0.0001 ppm | -0.0002 ppm |
| Concentration per Run 3 | 0.0006 ppm | 10.3762 ppm | 0.0004 ppm | 0.4911 ppm | -0.0005 ppm | 0.0008 ppm | -0.0001 ppm |
| Concentration RSD | 250.2 % | 1.0 % | 90.8 % | 0.9 % | 8.7 % | 87.3 % | 285.7 % |

| | 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 | 0.0009 ppm | 90.8976 % | 95.3582 % | 86.1343 % | 93.1308 % | 97.7831 % | 92.9186 % |
| Concentration per Run 1 | 0.0009 ppm | 90.1557 % | 95.1741 % | 85.7061 % | 93.1192 % | 98.0316 % | 93.0469 % |
| Concentration per Run 2 | 0.0010 ppm | 90.5970 % | 95.6206 % | 86.0166 % | 92.9258 % | 97.9379 % | 92.6639 % |
| Concentration per Run 3 | 0.0009 ppm | 91.9403 % | 95.2799 % | 86.6801 % | 93.3474 % | 97.3799 % | 93.0451 % |
| Concentration RSD | 7.8 % | 1.0 % | 0.2 % | 0.6 % | 0.2 % | 0.4 % | 0.2 % |

# iCAP Pro Trace 8 Data report
12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474294-01 WG2012774
Analysis started at: 12/23/2024 9:53:08 PM
Rack 3
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 | -0.0001 ppm | -0.0012 ppm | -0.0005 ppm | 0.0067 ppm | 0.0008 ppm | 0.0000 ppm | 7.9500 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0008 ppm | -0.0005 ppm | 0.0073 ppm | 0.0008 ppm | 0.0000 ppm | 7.9479 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.0019 ppm | -0.0014 ppm | 0.0064 ppm | 0.0007 ppm | 0.0000 ppm | 7.9419 ppm |
| Concentration per Run 3 | 0.0001 ppm | -0.0064 ppm | 0.0005 ppm | 0.0063 ppm | 0.0008 ppm | 0.0000 ppm | 7.9602 ppm |
| Concentration RSD | 206.8 % | 366.3 % | 197.0 % | 8.5 % | 2.7 % | 36.9 % | 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 | -0.0001 ppm | 0.0000 ppm | -0.0002 ppm | 0.1526 ppm | 0.0124 ppm | 0.5692 ppm | 0.0105 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0006 ppm | -0.0002 ppm | 0.1535 ppm | 0.0124 ppm | 0.5791 ppm | 0.0111 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0002 ppm | 0.0001 ppm | 0.1521 ppm | 0.0120 ppm | 0.5538 ppm | 0.0102 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0003 ppm | -0.0004 ppm | 0.1522 ppm | 0.0127 ppm | 0.5748 ppm | 0.0101 ppm |
| Concentration RSD | 61.3 % | 1,280.4 % | 119.8 % | 0.5 % | 2.8 % | 2.4 % | 5.3 % |

| | 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 | 5.3353 ppm | 0.0004 ppm | -0.0001 ppm | 2.9963 ppm | 0.0011 ppm | 0.0043 ppm | 0.0001 ppm |
| Concentration per Run 1 | 5.3701 ppm | 0.0003 ppm | -0.0003 ppm | 2.9983 ppm | 0.0013 ppm | 0.0051 ppm | 0.0015 ppm |
| Concentration per Run 2 | 5.3333 ppm | 0.0004 ppm | -0.0001 ppm | 2.9969 ppm | 0.0008 ppm | 0.0044 ppm | 0.0000 ppm |
| Concentration per Run 3 | 5.3026 ppm | 0.0004 ppm | 0.0000 ppm | 2.9938 ppm | 0.0012 ppm | 0.0032 ppm | -0.0013 ppm |
| Concentration RSD | 0.6 % | 8.3 % | 94.5 % | 0.1 % | 24.5 % | 23.0 % | 1,958.7 % |

| | 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 | 0.0012 ppm | 5.5646 ppm | -0.0004 ppm | 0.0212 ppm | -0.0004 ppm | 0.0005 ppm | 0.0000 ppm |
| Concentration per Run 1 | 0.0020 ppm | 5.5805 ppm | 0.0001 ppm | 0.0213 ppm | -0.0004 ppm | -0.0001 ppm | 0.0000 ppm |
| Concentration per Run 2 | 0.0006 ppm | 5.5620 ppm | -0.0005 ppm | 0.0212 ppm | -0.0005 ppm | 0.0007 ppm | 0.0000 ppm |
| Concentration per Run 3 | 0.0010 ppm | 5.5514 ppm | -0.0007 ppm | 0.0212 ppm | -0.0002 ppm | 0.0009 ppm | 0.0000 ppm |
| Concentration RSD | 60.1 % | 0.3 % | 121.7 % | 0.3 % | 37.0 % | 98.6 % | 175.5 % |

| | 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 | 0.0170 ppm | 93.5398 % | 96.7261 % | 92.6808 % | 96.6272 % | 99.5751 % | 96.9212 % |
| Concentration per Run 1 | 0.0171 ppm | 92.9945 % | 96.9273 % | 92.3692 % | 96.9120 % | 99.9826 % | 97.2538 % |
| Concentration per Run 2 | 0.0169 ppm | 93.6322 % | 96.6312 % | 92.6211 % | 96.5885 % | 99.6163 % | 96.9771 % |
| Concentration per Run 3 | 0.0168 ppm | 93.9925 % | 96.6198 % | 93.0520 % | 96.3812 % | 99.1264 % | 96.5329 % |
| Concentration RSD | 1.0 % | 0.5 % | 0.2 % | 0.4 % | 0.3 % | 0.4 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474295-01 WG2012774
Analysis started at: 12/23/2024 9:57:37 PM
Rack 3
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 | -0.0001 ppm | -0.0061 ppm | -0.0019 ppm | 0.0050 ppm | 0.0185 ppm | 0.0000 ppm | 166.6491 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0031 ppm | -0.0009 ppm | 0.0047 ppm | 0.0185 ppm | 0.0000 ppm | 166.7310 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0076 ppm | -0.0017 ppm | 0.0059 ppm | 0.0186 ppm | 0.0000 ppm | 165.8155 ppm |
| Concentration per Run 3 | -0.0003 ppm | -0.0075 ppm | -0.0029 ppm | 0.0043 ppm | 0.0184 ppm | 0.0000 ppm | 167.4009 ppm |
| Concentration RSD | 161.1 % | 43.0 % | 53.5 % | 16.7 % | 0.3 % | 74.8 % | 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 | -0.0009 ppm | 0.0002 ppm | 0.0041 ppm | 0.0276 ppm | 0.2240 ppm | 2.0927 ppm | 0.0044 ppm |
| Concentration per Run 1 | -0.0009 ppm | 0.0002 ppm | 0.0041 ppm | 0.0279 ppm | 0.2251 ppm | 2.1040 ppm | 0.0059 ppm |
| Concentration per Run 2 | -0.0010 ppm | 0.0004 ppm | 0.0040 ppm | 0.0272 ppm | 0.2236 ppm | 2.0882 ppm | 0.0028 ppm |
| Concentration per Run 3 | -0.0009 ppm | 0.0000 ppm | 0.0041 ppm | 0.0276 ppm | 0.2234 ppm | 2.0859 ppm | 0.0046 ppm |
| Concentration RSD | 2.9 % | 88.6 % | 1.2 % | 1.2 % | 0.4 % | 0.5 % | 35.5 % |

| | 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 | 58.9581 ppm | 0.0016 ppm | -0.0004 ppm | 147.3958 ppm | 0.0030 ppm | 0.0004 ppm | 0.0011 ppm |
| Concentration per Run 1 | 59.3324 ppm | 0.0016 ppm | -0.0003 ppm | 147.1571 ppm | 0.0032 ppm | 0.0005 ppm | -0.0002 ppm |
| Concentration per Run 2 | 59.2659 ppm | 0.0016 ppm | -0.0003 ppm | 147.3332 ppm | 0.0033 ppm | 0.0001 ppm | 0.0001 ppm |
| Concentration per Run 3 | 58.2760 ppm | 0.0016 ppm | -0.0004 ppm | 147.6972 ppm | 0.0026 ppm | 0.0004 ppm | 0.0034 ppm |
| Concentration RSD | 1.0 % | 0.3 % | 14.5 % | 0.2 % | 12.3 % | 55.9 % | 174.9 % |

| | 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 | 11.7333 ppm | 0.0006 ppm | 0.5183 ppm | -0.0008 ppm | 0.0004 ppm | 0.0005 ppm |
| Concentration per Run 1 | 0.0001 ppm | 11.8038 ppm | 0.0001 ppm | 0.5216 ppm | -0.0007 ppm | 0.0007 ppm | 0.0003 ppm |
| Concentration per Run 2 | 0.0009 ppm | 11.7323 ppm | 0.0014 ppm | 0.5205 ppm | -0.0008 ppm | 0.0005 ppm | 0.0004 ppm |
| Concentration per Run 3 | -0.0015 ppm | 11.6637 ppm | 0.0002 ppm | 0.5127 ppm | -0.0010 ppm | 0.0000 ppm | 0.0006 ppm |
| Concentration RSD | 723.7 % | 0.6 % | 124.1 % | 0.9 % | 20.5 % | 97.2 % | 32.4 % |

| | 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 | 0.0221 ppm | 84.5274 % | 91.1400 % | 75.3155 % | 86.3405 % | 93.3104 % | 86.2722 % |
| Concentration per Run 1 | 0.0223 ppm | 83.8167 % | 90.9113 % | 75.4419 % | 86.3614 % | 93.3181 % | 86.6686 % |
| Concentration per Run 2 | 0.0225 ppm | 84.5154 % | 91.7072 % | 74.9907 % | 86.3952 % | 93.6173 % | 86.1087 % |
| Concentration per Run 3 | 0.0216 ppm | 85.2500 % | 90.8017 % | 75.5140 % | 86.2651 % | 92.9957 % | 86.0394 % |
| Concentration RSD | 2.2 % | 0.8 % | 0.5 % | 0.4 % | 0.1 % | 0.3 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 10:04:54 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 | 0.4878 ppm | 0.4922 ppm | 0.4578 ppm | 0.4518 ppm | 0.5063 ppm | 0.4922 ppm | 0.4864 ppm |
| Concentration per Run 1 | 0.4910 ppm | 0.4926 ppm | 0.4558 ppm | 0.4479 ppm | 0.5030 ppm | 0.4927 ppm | 0.4886 ppm |
| Concentration per Run 2 | 0.4858 ppm | 0.4925 ppm | 0.4581 ppm | 0.4535 ppm | 0.5103 ppm | 0.4932 ppm | 0.4843 ppm |
| Concentration per Run 3 | 0.4867 ppm | 0.4916 ppm | 0.4597 ppm | 0.4540 ppm | 0.5056 ppm | 0.4908 ppm | 0.4862 ppm |
| Recovery Percentage 1 | 97.568 % | 98.445 % | 91.570 % | 90.367 % | 101.259 % | 98.444 % | 97.274 % |
| Concentration RSD | 0.6 % | 0.1 % | 0.4 % | 0.8 % | 0.7 % | 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 | 0.4732 ppm | 0.4969 ppm | 0.4805 ppm | 0.4900 ppm | 0.4877 ppm | 5.4722 ppm | 0.5251 ppm |
| Concentration per Run 1 | 0.4727 ppm | 0.4964 ppm | 0.4811 ppm | 0.4890 ppm | 0.4885 ppm | 5.4612 ppm | 0.5190 ppm |
| Concentration per Run 2 | 0.4741 ppm | 0.4967 ppm | 0.4803 ppm | 0.4886 ppm | 0.4882 ppm | 5.4827 ppm | 0.5310 ppm |
| Concentration per Run 3 | 0.4730 ppm | 0.4977 ppm | 0.4800 ppm | 0.4925 ppm | 0.4862 ppm | 5.4727 ppm | 0.5252 ppm |
| Recovery Percentage 1 | 94.647 % | 99.387 % | 96.094 % | 98.007 % | 97.532 % | 109.444 % | 105.016 % |
| Concentration RSD | 0.2 % | 0.1 % | 0.1 % | 0.4 % | 0.3 % | 0.2 % | 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 | 0.4831 ppm | 0.4791 ppm | 0.4770 ppm | 10.6952 ppm | 0.4915 ppm | 0.4853 ppm | 0.4908 ppm |
| Concentration per Run 1 | 0.4843 ppm | 0.4813 ppm | 0.4736 ppm | 10.6251 ppm | 0.4912 ppm | 0.4842 ppm | 0.4921 ppm |
| Concentration per Run 2 | 0.4817 ppm | 0.4793 ppm | 0.4765 ppm | 10.6885 ppm | 0.4921 ppm | 0.4870 ppm | 0.4892 ppm |
| Concentration per Run 3 | 0.4832 ppm | 0.4768 ppm | 0.4811 ppm | 10.7721 ppm | 0.4911 ppm | 0.4847 ppm | 0.4910 ppm |
| Recovery Percentage 1 | 96.616 % | 95.826 % | 95.410 % | 106.952 % | 98.297 % | 97.060 % | 98.159 % |
| Concentration RSD | 0.3 % | 0.5 % | 0.8 % | 0.7 % | 0.1 % | 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 | 0.4764 ppm | 5.1850 ppm | 0.5008 ppm | 0.5375 ppm | 0.4798 ppm | 0.4853 ppm | 0.4936 ppm |
| Concentration per Run 1 | 0.4746 ppm | 5.1736 ppm | 0.4968 ppm | 0.5355 ppm | 0.4804 ppm | 0.4817 ppm | 0.4950 ppm |
| Concentration per Run 2 | 0.4778 ppm | 5.1872 ppm | 0.5020 ppm | 0.5403 ppm | 0.4788 ppm | 0.4873 ppm | 0.4944 ppm |
| Concentration per Run 3 | 0.4768 ppm | 5.1942 ppm | 0.5035 ppm | 0.5366 ppm | 0.4801 ppm | 0.4868 ppm | 0.4915 ppm |
| Recovery Percentage 1 | 95.284 % | 98.762 % | 100.157 % | 107.494 % | 95.957 % | 97.052 % | 98.728 % |
| Concentration RSD | 0.3 % | 0.2 % | 0.7 % | 0.5 % | 0.2 % | 0.6 % | 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 | 0.4746 ppm | 99.1686 % | 99.2884 % | 94.7471 % | 95.1985 % | 97.8813 % | 95.6358 % |
| Concentration per Run 1 | 0.4727 ppm | 99.4269 % | 99.0951 % | 95.1802 % | 95.7152 % | 98.1925 % | 95.9965 % |
| Concentration per Run 2 | 0.4763 ppm | 98.8063 % | 99.3385 % | 94.1586 % | 94.7510 % | 97.7771 % | 94.9883 % |
| Concentration per Run 3 | 0.4750 ppm | 99.2725 % | 99.4315 % | 94.9024 % | 95.1294 % | 97.6742 % | 95.9227 % |
| Recovery Percentage 1 | 94.927 % | | | | | | |
| Concentration RSD | 0.4 % | 0.3 % | 0.2 % | 0.6 % | 0.5 % | 0.3 % | 0.6 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 10:09:27 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 | -0.0015 ppm | -0.0002 ppm | 0.0008 ppm | 0.0001 ppm | 0.0000 ppm | -0.0007 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0004 ppm | -0.0009 ppm | 0.0018 ppm | 0.0001 ppm | 0.0000 ppm | -0.0011 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0010 ppm | -0.0006 ppm | 0.0004 ppm | 0.0002 ppm | 0.0000 ppm | -0.0005 ppm |
| Concentration per Run 3 | 0.0002 ppm | -0.0052 ppm | 0.0010 ppm | 0.0001 ppm | 0.0001 ppm | 0.0000 ppm | -0.0006 ppm |
| Recovery Percentage 1 | 2.536 % | -1.525 % | -3.297 % | 2.534 % | 1.266 % | 0.706 % | -0.724 % |
| Concentration RSD | 59.1 % | 214.5 % | 599.9 % | 115.3 % | 27.1 % | 33.4 % | 41.6 % |

| | 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 | 0.0000 ppm | -0.0002 ppm | 0.0012 ppm | 0.0217 ppm | -0.0006 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0003 ppm | -0.0001 ppm | -0.0001 ppm | 0.0012 ppm | 0.0247 ppm | -0.0009 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0005 ppm | 0.0000 ppm | -0.0002 ppm | 0.0015 ppm | 0.0250 ppm | -0.0005 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0001 ppm | 0.0000 ppm | -0.0001 ppm | 0.0008 ppm | 0.0155 ppm | -0.0006 ppm |
| Recovery Percentage 1 | -1.189 % | -2.916 % | -0.236 % | -1.665 % | 2.337 % | 0.869 % | -6.362 % |
| Concentration RSD | 130.8 % | 66.2 % | 169.9 % | 41.8 % | 29.4 % | 24.9 % | 31.7 % |

| | 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 | -0.0018 ppm | 0.0000 ppm | 0.0020 ppm | 0.0258 ppm | 0.0003 ppm | 0.0002 ppm | 0.0027 ppm |
| Concentration per Run 1 | -0.0018 ppm | 0.0000 ppm | 0.0020 ppm | 0.0257 ppm | 0.0005 ppm | 0.0005 ppm | 0.0021 ppm |
| Concentration per Run 2 | -0.0010 ppm | 0.0000 ppm | 0.0021 ppm | 0.0260 ppm | -0.0001 ppm | -0.0003 ppm | 0.0051 ppm |
| Concentration per Run 3 | -0.0026 ppm | 0.0001 ppm | 0.0019 ppm | 0.0259 ppm | 0.0005 ppm | 0.0005 ppm | 0.0008 ppm |
| Recovery Percentage 1 | -1.769 % | 0.401 % | 3.999 % | 1.292 % | 1.149 % | 2.106 % | 5.334 % |
| Concentration RSD | 45.2 % | 214.6 % | 6.8 % | 0.5 % | 130.1 % | 229.9 % | 83.0 % |

| | 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 | -0.0009 ppm | 0.0000 ppm | 0.0007 ppm | 0.0001 ppm | -0.0002 ppm | 0.0002 ppm | 0.0000 ppm |
| Concentration per Run 1 | -0.0018 ppm | 0.0012 ppm | 0.0006 ppm | 0.0001 ppm | -0.0002 ppm | 0.0000 ppm | 0.0000 ppm |
| Concentration per Run 2 | 0.0006 ppm | -0.0010 ppm | 0.0009 ppm | 0.0001 ppm | -0.0003 ppm | 0.0009 ppm | 0.0001 ppm |
| Concentration per Run 3 | -0.0015 ppm | -0.0003 ppm | 0.0007 ppm | 0.0001 ppm | -0.0001 ppm | -0.0002 ppm | -0.0002 ppm |
| Recovery Percentage 1 | -9.244 % | -0.003 % | 1.440 % | 1.157 % | -2.090 % | 1.147 % | -0.470 % |
| Concentration RSD | 140.3 % | 8,636.6 % | 17.4 % | 36.7 % | 53.8 % | 246.2 % | 232.4 % |

| | 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 | 96.3950 % | 97.1533 % | 95.5561 % | 96.9495 % | 98.4323 % | 96.9402 % |
| Concentration per Run 1 | -0.0006 ppm | 95.9751 % | 96.2333 % | 95.5245 % | 97.0897 % | 98.1233 % | 97.1473 % |
| Concentration per Run 2 | -0.0008 ppm | 96.2699 % | 97.0808 % | 95.6855 % | 96.9040 % | 98.2179 % | 96.9309 % |
| Concentration per Run 3 | -0.0008 ppm | 96.9399 % | 98.1457 % | 95.4584 % | 96.8549 % | 98.9556 % | 96.7426 % |
| Recovery Percentage 1 | -14.622 % | | | | | | |
| Concentration RSD | 11.2 % | 0.5 % | 1.0 % | 0.1 % | 0.1 % | 0.5 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012740-1 WG2012740
Analysis started at: 12/23/2024 10:29:26 PM
Rack 3
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 | 0.0004 ppm | -0.0013 ppm | 0.0006 ppm | 0.0001 ppm | 0.0000 ppm | 0.0061 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0010 ppm | -0.0003 ppm | 0.0011 ppm | 0.0001 ppm | 0.0000 ppm | 0.0059 ppm |
| Concentration per Run 2 | 0.0003 ppm | -0.0017 ppm | -0.0020 ppm | -0.0001 ppm | 0.0001 ppm | 0.0000 ppm | 0.0064 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0040 ppm | -0.0016 ppm | 0.0007 ppm | 0.0001 ppm | 0.0000 ppm | 0.0059 ppm |
| Recovery Percentage 1 | 1.231 % | 0.421 % | -25.798 % | 1.904 % | 0.942 % | -0.298 % | 6.052 % |
| Concentration RSD | 326.0 % | 748.4 % | 66.0 % | 102.4 % | 37.8 % | 60.3 % | 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 | -0.0001 ppm | 0.0001 ppm | -0.0004 ppm | -0.0001 ppm | 0.0187 ppm | -0.0005 ppm |
| Concentration per Run 1 | -0.0001 ppm | -0.0001 ppm | 0.0000 ppm | -0.0004 ppm | -0.0004 ppm | 0.0204 ppm | -0.0004 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0002 ppm | 0.0001 ppm | -0.0005 ppm | 0.0004 ppm | 0.0139 ppm | -0.0006 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0001 ppm | 0.0001 ppm | -0.0004 ppm | -0.0003 ppm | 0.0218 ppm | -0.0005 ppm |
| Recovery Percentage 1 | -2.223 % | -1.158 % | 0.851 % | -4.425 % | -0.176 % | 0.748 % | -5.093 % |
| Concentration RSD | 71.6 % | 45.0 % | 48.4 % | 4.9 % | 504.3 % | 22.4 % | 10.8 % |

| | 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 | 0.0003 ppm | 0.0000 ppm | -0.0003 ppm | 0.0077 ppm | 0.0002 ppm | -0.0005 ppm | 0.0009 ppm |
| Concentration per Run 1 | 0.0008 ppm | 0.0001 ppm | -0.0001 ppm | 0.0079 ppm | 0.0005 ppm | -0.0005 ppm | 0.0020 ppm |
| Concentration per Run 2 | -0.0003 ppm | -0.0001 ppm | -0.0003 ppm | 0.0084 ppm | 0.0000 ppm | -0.0007 ppm | -0.0006 ppm |
| Concentration per Run 3 | 0.0004 ppm | 0.0000 ppm | -0.0005 ppm | 0.0067 ppm | 0.0000 ppm | -0.0002 ppm | 0.0014 ppm |
| Recovery Percentage 1 | 0.326 % | 0.169 % | -0.614 % | 0.384 % | 0.667 % | -4.854 % | 1.858 % |
| Concentration RSD | 165.2 % | 343.3 % | 67.0 % | 11.5 % | 155.4 % | 50.8 % | 145.9 % |

| | 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 | 0.0000 ppm | -0.0011 ppm | -0.0005 ppm | 0.0001 ppm | -0.0001 ppm | 0.0007 ppm | -0.0001 ppm |
| Concentration per Run 1 | -0.0017 ppm | -0.0017 ppm | -0.0007 ppm | 0.0001 ppm | -0.0002 ppm | 0.0006 ppm | -0.0001 ppm |
| Concentration per Run 2 | 0.0016 ppm | -0.0002 ppm | -0.0008 ppm | 0.0001 ppm | 0.0001 ppm | 0.0008 ppm | 0.0000 ppm |
| Concentration per Run 3 | 0.0001 ppm | -0.0013 ppm | 0.0001 ppm | 0.0000 ppm | -0.0002 ppm | 0.0005 ppm | -0.0001 ppm |
| Recovery Percentage 1 | 0.068 % | -0.212 % | -0.990 % | 0.568 % | -0.830 % | 3.300 % | -0.540 % |
| Concentration RSD | 24,130.5 % | 72.9 % | 101.3 % | 11.7 % | 230.4 % | 21.5 % | 152.8 % |

| | 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 | -0.0007 ppm | 105.8763 % | 100.5140 % | 106.7751 % | 100.6481 % | 99.3683 % | 99.5074 % |
| Concentration per Run 1 | -0.0007 ppm | 106.3824 % | 100.9714 % | 106.8676 % | 101.0363 % | 99.4150 % | 99.5332 % |
| Concentration per Run 2 | -0.0007 ppm | 106.2180 % | 101.1630 % | 106.9728 % | 101.2110 % | 99.8995 % | 99.5124 % |
| Concentration per Run 3 | -0.0008 ppm | 105.0286 % | 99.4077 % | 106.4849 % | 99.6970 % | 98.7903 % | 99.4768 % |
| Recovery Percentage 1 | -14.146 % | | | | | | |
| Concentration RSD | 11.1 % | 0.7 % | 1.0 % | 0.2 % | 0.8 % | 0.6 % | 0.0 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012740-2 WG2012740
Analysis started at: 12/23/2024 10:34:21 PM
Rack 3
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 | 0.0531 ppm | 2.2408 ppm | 0.1132 ppm | 0.9200 ppm | 2.1379 ppm | 0.0512 ppm | 10.0263 ppm |
| Concentration per Run 1 | 0.0536 ppm | 2.2314 ppm | 0.1135 ppm | 0.9286 ppm | 2.1357 ppm | 0.0511 ppm | 10.0228 ppm |
| Concentration per Run 2 | 0.0530 ppm | 2.2412 ppm | 0.1129 ppm | 0.9235 ppm | 2.1487 ppm | 0.0514 ppm | 10.0360 ppm |
| Concentration per Run 3 | 0.0528 ppm | 2.2498 ppm | 0.1132 ppm | 0.9080 ppm | 2.1293 ppm | 0.0511 ppm | 10.0201 ppm |
| Concentration RSD | 0.8 % | 0.4 % | 0.3 % | 1.2 % | 0.5 % | 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 | 0.0536 ppm | 0.5245 ppm | 0.2071 ppm | 0.2684 ppm | 1.0286 ppm | 11.4549 ppm | -0.0003 ppm |
| Concentration per Run 1 | 0.0544 ppm | 0.5318 ppm | 0.2102 ppm | 0.2695 ppm | 1.0269 ppm | 11.4678 ppm | 0.0000 ppm |
| Concentration per Run 2 | 0.0539 ppm | 0.5257 ppm | 0.2070 ppm | 0.2683 ppm | 1.0351 ppm | 11.5318 ppm | -0.0007 ppm |
| Concentration per Run 3 | 0.0523 ppm | 0.5161 ppm | 0.2041 ppm | 0.2674 ppm | 1.0237 ppm | 11.3650 ppm | -0.0001 ppm |
| Concentration RSD | 2.0 % | 1.5 % | 1.5 % | 0.4 % | 0.6 % | 0.7 % | 139.6 % |

| | 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 | 10.3086 ppm | 0.5039 ppm | 0.8821 ppm | 11.3658 ppm | 0.5091 ppm | 0.5499 ppm | 0.4265 ppm |
| Concentration per Run 1 | 10.4755 ppm | 0.5034 ppm | 0.8871 ppm | 11.3375 ppm | 0.5144 ppm | 0.5548 ppm | 0.4309 ppm |
| Concentration per Run 2 | 10.3090 ppm | 0.5053 ppm | 0.8819 ppm | 11.3766 ppm | 0.5116 ppm | 0.5471 ppm | 0.4230 ppm |
| Concentration per Run 3 | 10.1413 ppm | 0.5029 ppm | 0.8774 ppm | 11.3832 ppm | 0.5014 ppm | 0.5479 ppm | 0.4257 ppm |
| Concentration RSD | 1.6 % | 0.2 % | 0.6 % | 0.2 % | 1.3 % | 0.8 % | 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 | 0.1180 ppm | 1.0307 ppm | 0.9837 ppm | 1.0495 ppm | 1.0099 ppm | 0.1256 ppm | 0.5417 ppm |
| Concentration per Run 1 | 0.1185 ppm | 1.0462 ppm | 0.9917 ppm | 1.0496 ppm | 1.0233 ppm | 0.1254 ppm | 0.5460 ppm |
| Concentration per Run 2 | 0.1158 ppm | 1.0289 ppm | 0.9914 ppm | 1.0507 ppm | 1.0093 ppm | 0.1252 ppm | 0.5425 ppm |
| Concentration per Run 3 | 0.1198 ppm | 1.0170 ppm | 0.9680 ppm | 1.0482 ppm | 0.9971 ppm | 0.1262 ppm | 0.5367 ppm |
| Concentration RSD | 1.7 % | 1.4 % | 1.4 % | 0.1 % | 1.3 % | 0.4 % | 0.9 % |

| | 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 | 0.4992 ppm | 94.6382 % | 97.2455 % | 89.6484 % | 94.9637 % | 98.0466 % | 94.7790 % |
| Concentration per Run 1 | 0.5070 ppm | 93.6599 % | 97.3285 % | 89.1436 % | 94.4558 % | 98.3945 % | 94.4307 % |
| Concentration per Run 2 | 0.5016 ppm | 94.5801 % | 97.1607 % | 89.8986 % | 95.1489 % | 98.2224 % | 94.9180 % |
| Concentration per Run 3 | 0.4891 ppm | 95.6746 % | 97.2473 % | 89.9030 % | 95.2863 % | 97.5230 % | 94.9883 % |
| Concentration RSD | 1.8 % | 1.1 % | 0.1 % | 0.5 % | 0.5 % | 0.5 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474083-01d2 WG2012740
Analysis started at: 12/23/2024 10:38:50 PM
Rack 3
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 | 0.0000 ppm | 0.0403 ppm | 0.0005 ppm | 0.0369 ppm | 0.1360 ppm | 0.0000 ppm | 22.4061 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0456 ppm | 0.0004 ppm | 0.0378 ppm | 0.1364 ppm | 0.0000 ppm | 22.4546 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.0384 ppm | 0.0016 ppm | 0.0361 ppm | 0.1358 ppm | 0.0000 ppm | 22.1731 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0370 ppm | -0.0005 ppm | 0.0368 ppm | 0.1357 ppm | 0.0000 ppm | 22.5904 ppm |
| Concentration RSD | 393.2 % | 11.5 % | 216.5 % | 2.3 % | 0.3 % | 540.2 % | 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 | 0.0004 ppm | -0.0001 ppm | 0.0016 ppm | 0.0086 ppm | 0.1377 ppm | 2.3398 ppm | 0.4835 ppm |
| Concentration per Run 1 | 0.0005 ppm | -0.0003 ppm | 0.0017 ppm | 0.0087 ppm | 0.1378 ppm | 2.3535 ppm | 0.4866 ppm |
| Concentration per Run 2 | 0.0004 ppm | -0.0001 ppm | 0.0014 ppm | 0.0088 ppm | 0.1379 ppm | 2.3454 ppm | 0.4851 ppm |
| Concentration per Run 3 | 0.0004 ppm | 0.0002 ppm | 0.0018 ppm | 0.0085 ppm | 0.1375 ppm | 2.3205 ppm | 0.4790 ppm |
| Concentration RSD | 14.2 % | 379.5 % | 14.5 % | 1.7 % | 0.2 % | 0.7 % | 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 | 3.8785 ppm | 0.0063 ppm | 0.0089 ppm | 78.0199 ppm | 0.0029 ppm | 0.0033 ppm | 0.0097 ppm |
| Concentration per Run 1 | 3.9141 ppm | 0.0063 ppm | 0.0091 ppm | 77.8864 ppm | 0.0028 ppm | 0.0038 ppm | 0.0101 ppm |
| Concentration per Run 2 | 3.8680 ppm | 0.0063 ppm | 0.0091 ppm | 78.4584 ppm | 0.0025 ppm | 0.0030 ppm | 0.0092 ppm |
| Concentration per Run 3 | 3.8535 ppm | 0.0063 ppm | 0.0084 ppm | 77.7149 ppm | 0.0034 ppm | 0.0030 ppm | 0.0100 ppm |
| Concentration RSD | 0.8 % | 0.5 % | 4.5 % | 0.5 % | 16.1 % | 14.3 % | 4.9 % |

| | 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 | -0.0007 ppm | 1.8594 ppm | 0.0037 ppm | 0.1549 ppm | 0.0014 ppm | 0.0009 ppm | 0.0008 ppm |
| Concentration per Run 1 | -0.0014 ppm | 1.8772 ppm | 0.0035 ppm | 0.1552 ppm | 0.0014 ppm | 0.0007 ppm | 0.0007 ppm |
| Concentration per Run 2 | -0.0002 ppm | 1.8553 ppm | 0.0044 ppm | 0.1545 ppm | 0.0015 ppm | 0.0013 ppm | 0.0008 ppm |
| Concentration per Run 3 | -0.0004 ppm | 1.8457 ppm | 0.0032 ppm | 0.1549 ppm | 0.0014 ppm | 0.0006 ppm | 0.0009 ppm |
| Concentration RSD | 101.6 % | 0.9 % | 17.3 % | 0.2 % | 3.7 % | 42.5 % | 8.8 % |

| | 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 | 0.3180 ppm | 91.6898 % | 96.0951 % | 86.4494 % | 91.8166 % | 96.8855 % | 91.9241 % |
| Concentration per Run 1 | 0.3225 ppm | 91.1462 % | 95.7458 % | 85.9634 % | 91.9440 % | 96.8305 % | 92.0852 % |
| Concentration per Run 2 | 0.3165 ppm | 91.4998 % | 97.4022 % | 86.8711 % | 91.3901 % | 97.9625 % | 92.1171 % |
| Concentration per Run 3 | 0.3151 ppm | 92.4234 % | 95.1372 % | 86.5138 % | 92.1155 % | 95.8633 % | 91.5699 % |
| Concentration RSD | 1.2 % | 0.7 % | 1.2 % | 0.5 % | 0.4 % | 1.1 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473839-01 WG2012740
Analysis started at: 12/23/2024 10:43:20 PM
Rack 3
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 | 0.1571 ppm | -0.0002 ppm | 0.0203 ppm | 0.0174 ppm | 0.0000 ppm | 22.6910 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.1552 ppm | -0.0003 ppm | 0.0207 ppm | 0.0175 ppm | 0.0000 ppm | 22.5522 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.1621 ppm | -0.0009 ppm | 0.0205 ppm | 0.0174 ppm | 0.0000 ppm | 22.7618 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.1541 ppm | 0.0005 ppm | 0.0197 ppm | 0.0173 ppm | 0.0000 ppm | 22.7592 ppm |
| Concentration RSD | 145.6 % | 2.8 % | 294.7 % | 2.5 % | 0.7 % | 477.5 % | 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 | -0.0001 ppm | 0.0005 ppm | 0.0006 ppm | 0.0027 ppm | 0.3499 ppm | 21.9393 ppm | 0.0010 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0004 ppm | 0.0007 ppm | 0.0027 ppm | 0.3508 ppm | 22.1928 ppm | 0.0012 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0005 ppm | 0.0007 ppm | 0.0026 ppm | 0.3503 ppm | 22.0310 ppm | 0.0009 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0005 ppm | 0.0005 ppm | 0.0027 ppm | 0.3488 ppm | 21.5942 ppm | 0.0010 ppm |
| Concentration RSD | 92.8 % | 11.8 % | 18.0 % | 2.9 % | 0.3 % | 1.4 % | 14.6 % |

| | 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 | 3.1698 ppm | 0.1610 ppm | 0.0011 ppm | 3.5140 ppm | 0.0012 ppm | 0.0010 ppm | 0.0024 ppm |
| Concentration per Run 1 | 3.1865 ppm | 0.1605 ppm | 0.0011 ppm | 3.5399 ppm | 0.0013 ppm | 0.0014 ppm | 0.0021 ppm |
| Concentration per Run 2 | 3.1524 ppm | 0.1612 ppm | 0.0012 ppm | 3.5292 ppm | 0.0012 ppm | 0.0005 ppm | 0.0020 ppm |
| Concentration per Run 3 | 3.1705 ppm | 0.1612 ppm | 0.0011 ppm | 3.4729 ppm | 0.0010 ppm | 0.0012 ppm | 0.0030 ppm |
| Concentration RSD | 0.5 % | 0.3 % | 6.9 % | 1.0 % | 13.8 % | 46.5 % | 23.3 % |

| | 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 | 1.6297 ppm | 0.0003 ppm | 0.0404 ppm | 0.0026 ppm | -0.0004 ppm | 0.0006 ppm |
| Concentration per Run 1 | 0.0003 ppm | 1.6482 ppm | 0.0006 ppm | 0.0405 ppm | 0.0029 ppm | -0.0011 ppm | 0.0006 ppm |
| Concentration per Run 2 | 0.0008 ppm | 1.6184 ppm | 0.0002 ppm | 0.0406 ppm | 0.0026 ppm | 0.0006 ppm | 0.0008 ppm |
| Concentration per Run 3 | 0.0005 ppm | 1.6226 ppm | 0.0002 ppm | 0.0402 ppm | 0.0024 ppm | -0.0006 ppm | 0.0006 ppm |
| Concentration RSD | 50.1 % | 1.0 % | 66.3 % | 0.5 % | 8.6 % | 233.7 % | 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 | 0.0130 ppm | 92.8769 % | 97.0278 % | 88.9198 % | 95.5176 % | 100.5224 % | 93.7816 % |
| Concentration per Run 1 | 0.0133 ppm | 92.2778 % | 97.3705 % | 88.3044 % | 95.6451 % | 100.9496 % | 93.6631 % |
| Concentration per Run 2 | 0.0129 ppm | 92.7510 % | 96.9611 % | 89.1469 % | 95.3709 % | 100.6626 % | 93.9435 % |
| Concentration per Run 3 | 0.0130 ppm | 93.6019 % | 96.7518 % | 89.3082 % | 95.5369 % | 99.9551 % | 93.7382 % |
| Concentration RSD | 1.6 % | 0.7 % | 0.3 % | 0.6 % | 0.1 % | 0.5 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012740-3 WG2012740
Analysis started at: 12/23/2024 10:47:49 PM
Rack 3
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 | 0.0537 ppm | 2.4779 ppm | 0.1163 ppm | 0.9684 ppm | 2.1508 ppm | 0.0512 ppm | 31.8793 ppm |
| Concentration per Run 1 | 0.0541 ppm | 2.4928 ppm | 0.1157 ppm | 0.9718 ppm | 2.1534 ppm | 0.0514 ppm | 31.9907 ppm |
| Concentration per Run 2 | 0.0538 ppm | 2.4689 ppm | 0.1166 ppm | 0.9760 ppm | 2.1535 ppm | 0.0513 ppm | 31.9631 ppm |
| Concentration per Run 3 | 0.0532 ppm | 2.4719 ppm | 0.1167 ppm | 0.9574 ppm | 2.1455 ppm | 0.0508 ppm | 31.6841 ppm |
| Concentration RSD | 0.9 % | 0.5 % | 0.5 % | 1.0 % | 0.2 % | 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 | 0.0522 ppm | 0.5154 ppm | 0.2053 ppm | 0.2785 ppm | 1.3321 ppm | 33.2978 ppm | 0.0020 ppm |
| Concentration per Run 1 | 0.0527 ppm | 0.5206 ppm | 0.2072 ppm | 0.2796 ppm | 1.3381 ppm | 33.0673 ppm | 0.0029 ppm |
| Concentration per Run 2 | 0.0523 ppm | 0.5156 ppm | 0.2054 ppm | 0.2788 ppm | 1.3356 ppm | 33.2791 ppm | 0.0017 ppm |
| Concentration per Run 3 | 0.0517 ppm | 0.5101 ppm | 0.2033 ppm | 0.2771 ppm | 1.3227 ppm | 33.5470 ppm | 0.0015 ppm |
| Concentration RSD | 0.9 % | 1.0 % | 0.9 % | 0.5 % | 0.6 % | 0.7 % | 36.0 % |

| | 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 | 13.2538 ppm | 0.6523 ppm | 0.8710 ppm | 15.4316 ppm | 0.4997 ppm | 0.5546 ppm | 0.5280 ppm |
| Concentration per Run 1 | 13.3877 ppm | 0.6555 ppm | 0.8706 ppm | 15.4418 ppm | 0.5050 ppm | 0.5560 ppm | 0.5331 ppm |
| Concentration per Run 2 | 13.2674 ppm | 0.6532 ppm | 0.8703 ppm | 15.3347 ppm | 0.5013 ppm | 0.5557 ppm | 0.5280 ppm |
| Concentration per Run 3 | 13.1064 ppm | 0.6482 ppm | 0.8720 ppm | 15.5183 ppm | 0.4930 ppm | 0.5520 ppm | 0.5228 ppm |
| Concentration RSD | 1.1 % | 0.6 % | 0.1 % | 0.6 % | 1.2 % | 0.4 % | 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 | 0.1227 ppm | 2.7960 ppm | 0.9310 ppm | 1.0891 ppm | 1.0077 ppm | 0.1260 ppm | 0.5424 ppm |
| Concentration per Run 1 | 0.1228 ppm | 2.8207 ppm | 0.9369 ppm | 1.0916 ppm | 1.0131 ppm | 0.1263 ppm | 0.5464 ppm |
| Concentration per Run 2 | 0.1232 ppm | 2.8054 ppm | 0.9325 ppm | 1.0900 ppm | 1.0107 ppm | 0.1267 ppm | 0.5418 ppm |
| Concentration per Run 3 | 0.1222 ppm | 2.7621 ppm | 0.9235 ppm | 1.0858 ppm | 0.9993 ppm | 0.1250 ppm | 0.5391 ppm |
| Concentration RSD | 0.4 % | 1.1 % | 0.7 % | 0.3 % | 0.7 % | 0.7 % | 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 | 0.5009 ppm | 92.6027 % | 97.9401 % | 85.1617 % | 93.5180 % | 99.3301 % | 92.2220 % |
| Concentration per Run 1 | 0.5048 ppm | 91.8112 % | 97.7288 % | 85.3741 % | 93.2000 % | 99.8039 % | 92.5321 % |
| Concentration per Run 2 | 0.5033 ppm | 92.4933 % | 97.5090 % | 84.5559 % | 93.5823 % | 98.5816 % | 92.0900 % |
| Concentration per Run 3 | 0.4947 ppm | 93.5035 % | 98.5824 % | 85.5550 % | 93.7718 % | 99.6049 % | 92.0440 % |
| Concentration RSD | 1.1 % | 0.9 % | 0.6 % | 0.6 % | 0.3 % | 0.7 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012740-4 WG2012740
Analysis started at: 12/23/2024 10:52:18 PM
Rack 3
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 | 0.0000 ppm | 0.1695 ppm | 0.0003 ppm | 0.0202 ppm | 0.0171 ppm | 0.0000 ppm | 22.3453 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.1729 ppm | 0.0005 ppm | 0.0206 ppm | 0.0172 ppm | 0.0000 ppm | 22.4957 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.1691 ppm | 0.0001 ppm | 0.0199 ppm | 0.0171 ppm | 0.0000 ppm | 22.3845 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.1665 ppm | 0.0005 ppm | 0.0200 ppm | 0.0169 ppm | 0.0000 ppm | 22.1558 ppm |
| Concentration RSD | 496.7 % | 1.9 % | 68.7 % | 1.9 % | 0.7 % | 2,086.0 % | 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 | -0.0001 ppm | 0.0003 ppm | 0.0007 ppm | 0.0027 ppm | 0.3615 ppm | 21.3209 ppm | 0.0012 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0005 ppm | 0.0006 ppm | 0.0030 ppm | 0.3646 ppm | 21.3279 ppm | 0.0014 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0005 ppm | 0.0007 ppm | 0.0025 ppm | 0.3639 ppm | 21.2509 ppm | 0.0010 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0000 ppm | 0.0008 ppm | 0.0028 ppm | 0.3560 ppm | 21.3837 ppm | 0.0011 ppm |
| Concentration RSD | 11.5 % | 95.4 % | 13.2 % | 9.5 % | 1.3 % | 0.3 % | 19.5 % |

| | 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 | 3.1344 ppm | 0.1578 ppm | 0.0066 ppm | 3.4283 ppm | 0.0020 ppm | 0.0006 ppm | 0.0030 ppm |
| Concentration per Run 1 | 3.1686 ppm | 0.1588 ppm | 0.0067 ppm | 3.4129 ppm | 0.0023 ppm | 0.0003 ppm | 0.0012 ppm |
| Concentration per Run 2 | 3.1198 ppm | 0.1581 ppm | 0.0064 ppm | 3.4371 ppm | 0.0024 ppm | 0.0002 ppm | 0.0047 ppm |
| Concentration per Run 3 | 3.1146 ppm | 0.1564 ppm | 0.0066 ppm | 3.4349 ppm | 0.0014 ppm | 0.0012 ppm | 0.0033 ppm |
| Concentration RSD | 1.0 % | 0.8 % | 2.8 % | 0.4 % | 27.6 % | 91.6 % | 57.9 % |

| | 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 | -0.0003 ppm | 1.6206 ppm | 0.0036 ppm | 0.0395 ppm | 0.0035 ppm | 0.0004 ppm | 0.0008 ppm |
| Concentration per Run 1 | 0.0001 ppm | 1.6375 ppm | 0.0041 ppm | 0.0399 ppm | 0.0033 ppm | 0.0007 ppm | 0.0008 ppm |
| Concentration per Run 2 | -0.0003 ppm | 1.6150 ppm | 0.0031 ppm | 0.0396 ppm | 0.0030 ppm | 0.0006 ppm | 0.0008 ppm |
| Concentration per Run 3 | -0.0007 ppm | 1.6093 ppm | 0.0036 ppm | 0.0392 ppm | 0.0042 ppm | -0.0002 ppm | 0.0007 ppm |
| Concentration RSD | 135.8 % | 0.9 % | 12.9 % | 0.9 % | 17.9 % | 135.2 % | 5.6 % |

| | 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 | 0.0134 ppm | 92.4819 % | 97.5052 % | 88.9955 % | 95.2045 % | 100.4498 % | 94.0762 % |
| Concentration per Run 1 | 0.0137 ppm | 91.5011 % | 97.0933 % | 88.8818 % | 94.9228 % | 100.5588 % | 94.4671 % |
| Concentration per Run 2 | 0.0134 ppm | 92.8822 % | 97.1345 % | 89.1722 % | 95.4164 % | 100.3239 % | 94.1951 % |
| Concentration per Run 3 | 0.0130 ppm | 93.0622 % | 98.2876 % | 88.9324 % | 95.2743 % | 100.4668 % | 93.5663 % |
| Concentration RSD | 2.6 % | 0.9 % | 0.7 % | 0.2 % | 0.3 % | 0.1 % | 0.5 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012740-5 WG2012740
Analysis started at: 12/23/2024 10:56:47 PM
Rack 3
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 | 0.0521 ppm | 2.2574 ppm | 0.1142 ppm | 0.9848 ppm | 2.0694 ppm | 0.0492 ppm | 31.2099 ppm |
| Concentration per Run 1 | 0.0522 ppm | 2.2799 ppm | 0.1159 ppm | 0.9963 ppm | 2.0852 ppm | 0.0494 ppm | 31.3065 ppm |
| Concentration per Run 2 | 0.0525 ppm | 2.2539 ppm | 0.1137 ppm | 0.9836 ppm | 2.0646 ppm | 0.0490 ppm | 31.1771 ppm |
| Concentration per Run 3 | 0.0516 ppm | 2.2384 ppm | 0.1130 ppm | 0.9746 ppm | 2.0584 ppm | 0.0491 ppm | 31.1460 ppm |
| Concentration RSD | 0.8 % | 0.9 % | 1.3 % | 1.1 % | 0.7 % | 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 | 0.0498 ppm | 0.4943 ppm | 0.1955 ppm | 0.2694 ppm | 1.2953 ppm | 33.2344 ppm | 0.0019 ppm |
| Concentration per Run 1 | 0.0502 ppm | 0.4979 ppm | 0.1972 ppm | 0.2717 ppm | 1.3000 ppm | 33.7615 ppm | 0.0025 ppm |
| Concentration per Run 2 | 0.0496 ppm | 0.4929 ppm | 0.1945 ppm | 0.2698 ppm | 1.2957 ppm | 33.2189 ppm | 0.0012 ppm |
| Concentration per Run 3 | 0.0495 ppm | 0.4919 ppm | 0.1949 ppm | 0.2665 ppm | 1.2901 ppm | 32.7226 ppm | 0.0019 ppm |
| Concentration RSD | 0.8 % | 0.7 % | 0.7 % | 1.0 % | 0.4 % | 1.6 % | 33.8 % |

| | 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 | 13.2296 ppm | 0.6366 ppm | 0.8360 ppm | 15.5597 ppm | 0.4916 ppm | 0.5462 ppm | 0.3751 ppm |
| Concentration per Run 1 | 13.3094 ppm | 0.6395 ppm | 0.8358 ppm | 15.8921 ppm | 0.4961 ppm | 0.5500 ppm | 0.3725 ppm |
| Concentration per Run 2 | 13.1923 ppm | 0.6369 ppm | 0.8323 ppm | 15.4806 ppm | 0.4888 ppm | 0.5456 ppm | 0.3762 ppm |
| Concentration per Run 3 | 13.1871 ppm | 0.6336 ppm | 0.8397 ppm | 15.3065 ppm | 0.4900 ppm | 0.5431 ppm | 0.3766 ppm |
| Concentration RSD | 0.5 % | 0.5 % | 0.4 % | 1.9 % | 0.8 % | 0.6 % | 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 | 0.1187 ppm | 2.2690 ppm | 0.9336 ppm | 1.0983 ppm | 1.0161 ppm | 0.1246 ppm | 0.5205 ppm |
| Concentration per Run 1 | 0.1190 ppm | 2.2851 ppm | 0.9455 ppm | 1.1065 ppm | 1.0228 ppm | 0.1253 ppm | 0.5230 ppm |
| Concentration per Run 2 | 0.1196 ppm | 2.2702 ppm | 0.9228 ppm | 1.0943 ppm | 1.0145 ppm | 0.1248 ppm | 0.5204 ppm |
| Concentration per Run 3 | 0.1176 ppm | 2.2519 ppm | 0.9324 ppm | 1.0940 ppm | 1.0110 ppm | 0.1238 ppm | 0.5181 ppm |
| Concentration RSD | 0.9 % | 0.7 % | 1.2 % | 0.6 % | 0.6 % | 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 | 0.4877 ppm | 92.8341 % | 98.0075 % | 84.9277 % | 93.8999 % | 99.4245 % | 92.0565 % |
| Concentration per Run 1 | 0.4929 ppm | 92.2135 % | 97.7027 % | 84.0932 % | 93.8324 % | 99.6054 % | 91.9333 % |
| Concentration per Run 2 | 0.4838 ppm | 93.1296 % | 98.0334 % | 85.0288 % | 94.2351 % | 99.3406 % | 91.9785 % |
| Concentration per Run 3 | 0.4864 ppm | 93.1590 % | 98.2864 % | 85.6612 % | 93.6321 % | 99.3275 % | 92.2578 % |
| Concentration RSD | 1.0 % | 0.6 % | 0.3 % | 0.9 % | 0.3 % | 0.2 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012740-6d5 WG2012740
Analysis started at: 12/23/2024 11:01:18 PM
Rack 3
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 | 0.0000 ppm | 0.0321 ppm | -0.0003 ppm | 0.0040 ppm | 0.0034 ppm | 0.0000 ppm | 4.3936 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0324 ppm | 0.0005 ppm | 0.0046 ppm | 0.0034 ppm | 0.0000 ppm | 4.3913 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0314 ppm | -0.0013 ppm | 0.0041 ppm | 0.0034 ppm | 0.0000 ppm | 4.4193 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0325 ppm | -0.0002 ppm | 0.0032 ppm | 0.0033 ppm | 0.0000 ppm | 4.3704 ppm |
| Concentration RSD | 3,768.4 % | 2.0 % | 298.4 % | 18.9 % | 1.1 % | 1,019.2 % | 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 | 0.0000 ppm | 0.0000 ppm | 0.0001 ppm | 0.0004 ppm | 0.0694 ppm | 3.8365 ppm | -0.0002 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0002 ppm | 0.0002 ppm | 0.0001 ppm | 0.0702 ppm | 3.8434 ppm | 0.0000 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0001 ppm | -0.0001 ppm | 0.0005 ppm | 0.0699 ppm | 3.8487 ppm | -0.0008 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0002 ppm | 0.0001 ppm | 0.0004 ppm | 0.0682 ppm | 3.8174 ppm | 0.0001 ppm |
| Concentration RSD | 747.4 % | 1,042.1 % | 265.7 % | 53.0 % | 1.5 % | 0.4 % | 193.7 % |

| | 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 | 0.5913 ppm | 0.0311 ppm | 0.0092 ppm | 0.6314 ppm | 0.0004 ppm | -0.0005 ppm | 0.0114 ppm |
| Concentration per Run 1 | 0.5906 ppm | 0.0313 ppm | 0.0094 ppm | 0.6329 ppm | 0.0004 ppm | 0.0004 ppm | 0.0093 ppm |
| Concentration per Run 2 | 0.5902 ppm | 0.0312 ppm | 0.0093 ppm | 0.6283 ppm | 0.0004 ppm | -0.0015 ppm | 0.0124 ppm |
| Concentration per Run 3 | 0.5931 ppm | 0.0308 ppm | 0.0090 ppm | 0.6330 ppm | 0.0005 ppm | -0.0004 ppm | 0.0126 ppm |
| Concentration RSD | 0.3 % | 0.9 % | 2.4 % | 0.4 % | 6.9 % | 207.5 % | 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 | -0.0002 ppm | 0.2939 ppm | 0.0077 ppm | 0.0076 ppm | 0.0006 ppm | 0.0007 ppm | 0.0002 ppm |
| Concentration per Run 1 | 0.0010 ppm | 0.2937 ppm | 0.0081 ppm | 0.0076 ppm | 0.0006 ppm | 0.0007 ppm | 0.0002 ppm |
| Concentration per Run 2 | -0.0006 ppm | 0.2922 ppm | 0.0078 ppm | 0.0076 ppm | 0.0004 ppm | 0.0005 ppm | 0.0002 ppm |
| Concentration per Run 3 | -0.0009 ppm | 0.2957 ppm | 0.0073 ppm | 0.0076 ppm | 0.0007 ppm | 0.0008 ppm | 0.0001 ppm |
| Concentration RSD | 661.4 % | 0.6 % | 4.8 % | 0.4 % | 23.5 % | 19.7 % | 46.8 % |

| | 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 | 0.0021 ppm | 99.0928 % | 99.2773 % | 96.3325 % | 97.2583 % | 99.3984 % | 96.3046 % |
| Concentration per Run 1 | 0.0023 ppm | 98.4245 % | 99.0051 % | 95.6547 % | 97.2558 % | 99.5628 % | 95.9121 % |
| Concentration per Run 2 | 0.0023 ppm | 99.1089 % | 98.4937 % | 96.6285 % | 97.3261 % | 98.8112 % | 96.5045 % |
| Concentration per Run 3 | 0.0018 ppm | 99.7449 % | 100.3333 % | 96.7144 % | 97.1929 % | 99.8213 % | 96.4973 % |
| Concentration RSD | 11.3 % | 0.7 % | 1.0 % | 0.6 % | 0.1 % | 0.5 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 11:05:46 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 | 0.4870 ppm | 0.4893 ppm | 0.4559 ppm | 0.4500 ppm | 0.5040 ppm | 0.4918 ppm | 0.4810 ppm |
| Concentration per Run 1 | 0.4886 ppm | 0.4884 ppm | 0.4577 ppm | 0.4491 ppm | 0.4985 ppm | 0.4910 ppm | 0.4818 ppm |
| Concentration per Run 2 | 0.4858 ppm | 0.4859 ppm | 0.4569 ppm | 0.4521 ppm | 0.5042 ppm | 0.4921 ppm | 0.4836 ppm |
| Concentration per Run 3 | 0.4866 ppm | 0.4936 ppm | 0.4529 ppm | 0.4489 ppm | 0.5092 ppm | 0.4923 ppm | 0.4774 ppm |
| Recovery Percentage 1 | 97.399 % | 97.860 % | 91.170 % | 90.006 % | 100.793 % | 98.366 % | 96.191 % |
| Concentration RSD | 0.3 % | 0.8 % | 0.6 % | 0.4 % | 1.1 % | 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 | 0.4724 ppm | 0.4950 ppm | 0.4801 ppm | 0.4866 ppm | 0.4899 ppm | 5.4543 ppm | 0.5249 ppm |
| Concentration per Run 1 | 0.4719 ppm | 0.4961 ppm | 0.4815 ppm | 0.4898 ppm | 0.4882 ppm | 5.4360 ppm | 0.5192 ppm |
| Concentration per Run 2 | 0.4738 ppm | 0.4950 ppm | 0.4797 ppm | 0.4863 ppm | 0.4917 ppm | 5.4512 ppm | 0.5250 ppm |
| Concentration per Run 3 | 0.4716 ppm | 0.4938 ppm | 0.4791 ppm | 0.4836 ppm | 0.4897 ppm | 5.4759 ppm | 0.5306 ppm |
| Recovery Percentage 1 | 94.482 % | 99.001 % | 96.014 % | 97.319 % | 97.980 % | 109.087 % | 104.987 % |
| Concentration RSD | 0.2 % | 0.2 % | 0.3 % | 0.6 % | 0.4 % | 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 | 0.4819 ppm | 0.4776 ppm | 0.4750 ppm | 10.6194 ppm | 0.4904 ppm | 0.4843 ppm | 0.4927 ppm |
| Concentration per Run 1 | 0.4818 ppm | 0.4786 ppm | 0.4727 ppm | 10.5739 ppm | 0.4927 ppm | 0.4850 ppm | 0.4953 ppm |
| Concentration per Run 2 | 0.4820 ppm | 0.4768 ppm | 0.4753 ppm | 10.5962 ppm | 0.4885 ppm | 0.4860 ppm | 0.4926 ppm |
| Concentration per Run 3 | 0.4818 ppm | 0.4776 ppm | 0.4769 ppm | 10.6882 ppm | 0.4900 ppm | 0.4818 ppm | 0.4903 ppm |
| Recovery Percentage 1 | 96.376 % | 95.529 % | 94.991 % | 106.194 % | 98.078 % | 96.851 % | 98.543 % |
| Concentration RSD | 0.0 % | 0.2 % | 0.4 % | 0.6 % | 0.4 % | 0.5 % | 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 | 0.4722 ppm | 5.1537 ppm | 0.5031 ppm | 0.5349 ppm | 0.4798 ppm | 0.4840 ppm | 0.4938 ppm |
| Concentration per Run 1 | 0.4725 ppm | 5.1726 ppm | 0.5053 ppm | 0.5310 ppm | 0.4810 ppm | 0.4834 ppm | 0.4955 ppm |
| Concentration per Run 2 | 0.4721 ppm | 5.1451 ppm | 0.5023 ppm | 0.5355 ppm | 0.4791 ppm | 0.4855 ppm | 0.4937 ppm |
| Concentration per Run 3 | 0.4721 ppm | 5.1433 ppm | 0.5017 ppm | 0.5382 ppm | 0.4793 ppm | 0.4831 ppm | 0.4922 ppm |
| Recovery Percentage 1 | 94.442 % | 98.165 % | 100.620 % | 106.977 % | 95.959 % | 96.800 % | 98.757 % |
| Concentration RSD | 0.0 % | 0.3 % | 0.4 % | 0.7 % | 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 | 0.4725 ppm | 98.9772 % | 98.8274 % | 94.5030 % | 95.2777 % | 97.4386 % | 95.2491 % |
| Concentration per Run 1 | 0.4727 ppm | 98.5944 % | 98.4263 % | 94.6373 % | 95.2325 % | 96.9661 % | 95.3504 % |
| Concentration per Run 2 | 0.4737 ppm | 99.1750 % | 98.8483 % | 94.1122 % | 95.3749 % | 97.4821 % | 95.0311 % |
| Concentration per Run 3 | 0.4712 ppm | 99.1624 % | 99.2076 % | 94.7595 % | 95.2256 % | 97.8674 % | 95.3657 % |
| Recovery Percentage 1 | 94.507 % | | | | | | |
| Concentration RSD | 0.3 % | 0.3 % | 0.4 % | 0.4 % | 0.1 % | 0.5 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 11:10:13 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 | -0.0015 ppm | -0.0013 ppm | 0.0009 ppm | 0.0000 ppm | 0.0000 ppm | -0.0001 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0012 ppm | -0.0021 ppm | 0.0011 ppm | 0.0000 ppm | 0.0000 ppm | 0.0005 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0008 ppm | -0.0009 ppm | 0.0007 ppm | 0.0001 ppm | 0.0001 ppm | -0.0006 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0026 ppm | -0.0008 ppm | 0.0010 ppm | 0.0000 ppm | 0.0000 ppm | -0.0001 ppm |
| Recovery Percentage 1 | -0.114 % | -1.548 % | -25.303 % | 3.140 % | 0.216 % | 0.797 % | -0.068 % |
| Concentration RSD | 876.8 % | 59.0 % | 60.1 % | 20.2 % | 161.3 % | 46.0 % | 814.8 % |

| | 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 | -0.0002 ppm | 0.0001 ppm | -0.0001 ppm | 0.0016 ppm | 0.0165 ppm | -0.0002 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0005 ppm | -0.0001 ppm | 0.0000 ppm | 0.0015 ppm | 0.0156 ppm | 0.0003 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0001 ppm | 0.0004 ppm | -0.0001 ppm | 0.0018 ppm | 0.0138 ppm | -0.0004 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0002 ppm | 0.0001 ppm | -0.0004 ppm | 0.0016 ppm | 0.0201 ppm | -0.0003 ppm |
| Recovery Percentage 1 | -0.370 % | -1.587 % | 0.978 % | -1.465 % | 3.237 % | 0.659 % | -1.670 % |
| Concentration RSD | 870.2 % | 191.0 % | 248.5 % | 137.2 % | 9.5 % | 19.7 % | 226.0 % |

| | 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 | 0.0030 ppm | 0.0147 ppm | -0.0002 ppm | 0.0000 ppm | 0.0030 ppm |
| Concentration per Run 1 | -0.0007 ppm | 0.0000 ppm | 0.0032 ppm | 0.0152 ppm | -0.0002 ppm | -0.0003 ppm | 0.0017 ppm |
| Concentration per Run 2 | -0.0010 ppm | 0.0000 ppm | 0.0032 ppm | 0.0138 ppm | 0.0001 ppm | 0.0006 ppm | 0.0042 ppm |
| Concentration per Run 3 | -0.0008 ppm | 0.0001 ppm | 0.0025 ppm | 0.0151 ppm | -0.0004 ppm | -0.0004 ppm | 0.0031 ppm |
| Recovery Percentage 1 | -0.816 % | 0.501 % | 5.935 % | 0.735 % | -0.640 % | -0.226 % | 6.014 % |
| Concentration RSD | 18.4 % | 184.2 % | 13.5 % | 5.1 % | 132.9 % | 2,257.7 % | 41.9 % |

| | 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 | -0.0006 ppm | 0.0015 ppm | 0.0013 ppm | 0.0001 ppm | -0.0002 ppm | 0.0002 ppm | 0.0000 ppm |
| Concentration per Run 1 | -0.0019 ppm | 0.0029 ppm | 0.0014 ppm | 0.0002 ppm | -0.0002 ppm | -0.0002 ppm | -0.0001 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.0013 ppm | 0.0010 ppm | 0.0001 ppm | -0.0001 ppm | 0.0004 ppm | 0.0002 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0003 ppm | 0.0015 ppm | 0.0001 ppm | -0.0002 ppm | 0.0004 ppm | -0.0001 ppm |
| Recovery Percentage 1 | -6.240 % | 0.299 % | 2.549 % | 1.140 % | -1.684 % | 1.041 % | 0.047 % |
| Concentration RSD | 183.4 % | 87.7 % | 22.2 % | 41.6 % | 19.1 % | 175.1 % | 2,800.5 % |

| | 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 | -0.0006 ppm | 96.5147 % | 96.9913 % | 95.3522 % | 97.1502 % | 98.3770 % | 96.8550 % |
| Concentration per Run 1 | -0.0007 ppm | 95.6183 % | 96.7324 % | 94.9386 % | 96.7678 % | 98.0903 % | 96.8014 % |
| Concentration per Run 2 | -0.0005 ppm | 96.5375 % | 97.0878 % | 95.4645 % | 96.7679 % | 98.5168 % | 96.8707 % |
| Concentration per Run 3 | -0.0005 ppm | 97.3882 % | 97.1537 % | 95.6535 % | 97.9147 % | 98.5240 % | 96.8930 % |
| Recovery Percentage 1 | -11.949 % | | | | | | |
| Concentration RSD | 16.7 % | 0.9 % | 0.2 % | 0.4 % | 0.7 % | 0.3 % | 0.0 % |

# iCAP Pro Trace 8 Data report
12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474240-01 WG2012740
Analysis started at: 12/23/2024 11:14:41 PM
Rack 3
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 | 0.0000 ppm | 0.0108 ppm | 0.0000 ppm | 0.0083 ppm | 0.0081 ppm | 0.0000 ppm | 4.6111 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0126 ppm | -0.0012 ppm | 0.0088 ppm | 0.0082 ppm | 0.0000 ppm | 4.6401 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0067 ppm | 0.0003 ppm | 0.0079 ppm | 0.0080 ppm | 0.0000 ppm | 4.6183 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0130 ppm | 0.0010 ppm | 0.0082 ppm | 0.0080 ppm | 0.0000 ppm | 4.5748 ppm |
| Concentration RSD | 195.1 % | 32.5 % | 8,008.6 % | 5.8 % | 1.3 % | 32.8 % | 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 | -0.0001 ppm | -0.0002 ppm | 0.0001 ppm | 0.1240 ppm | 0.1298 ppm | 1.2390 ppm | 0.0021 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0000 ppm | 0.0001 ppm | 0.1249 ppm | 0.1294 ppm | 1.2577 ppm | 0.0018 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0005 ppm | 0.0002 ppm | 0.1237 ppm | 0.1299 ppm | 1.2368 ppm | 0.0022 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0001 ppm | 0.0001 ppm | 0.1235 ppm | 0.1302 ppm | 1.2223 ppm | 0.0024 ppm |
| Concentration RSD | 57.1 % | 139.6 % | 47.7 % | 0.6 % | 0.3 % | 1.4 % | 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 | 0.8311 ppm | 0.0057 ppm | 0.0072 ppm | 45.3955 ppm | 0.0013 ppm | 0.0003 ppm | 0.0011 ppm |
| Concentration per Run 1 | 0.8403 ppm | 0.0055 ppm | 0.0073 ppm | 45.3102 ppm | 0.0008 ppm | 0.0007 ppm | 0.0023 ppm |
| Concentration per Run 2 | 0.8309 ppm | 0.0057 ppm | 0.0072 ppm | 45.7857 ppm | 0.0010 ppm | -0.0004 ppm | -0.0007 ppm |
| Concentration per Run 3 | 0.8220 ppm | 0.0058 ppm | 0.0071 ppm | 45.0905 ppm | 0.0022 ppm | 0.0006 ppm | 0.0017 ppm |
| Concentration RSD | 1.1 % | 2.2 % | 1.8 % | 0.8 % | 55.5 % | 203.1 % | 146.8 % |

| | 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 | -0.0019 ppm | 1.7146 ppm | 0.0003 ppm | 0.0357 ppm | 0.0005 ppm | 0.0006 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0026 ppm | 1.7276 ppm | 0.0007 ppm | 0.0360 ppm | 0.0005 ppm | -0.0003 ppm | 0.0002 ppm |
| Concentration per Run 2 | -0.0020 ppm | 1.7103 ppm | 0.0006 ppm | 0.0356 ppm | 0.0005 ppm | 0.0007 ppm | 0.0001 ppm |
| Concentration per Run 3 | -0.0012 ppm | 1.7057 ppm | -0.0003 ppm | 0.0355 ppm | 0.0005 ppm | 0.0013 ppm | 0.0001 ppm |
| Concentration RSD | 36.3 % | 0.7 % | 176.5 % | 0.8 % | 4.7 % | 135.7 % | 29.3 % |

| | 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 | 0.0303 ppm | 92.1104 % | 96.2575 % | 88.5655 % | 94.7406 % | 98.9469 % | 93.6276 % |
| Concentration per Run 1 | 0.0307 ppm | 91.3162 % | 95.6751 % | 88.0022 % | 94.8409 % | 98.6253 % | 93.7967 % |
| Concentration per Run 2 | 0.0303 ppm | 92.2976 % | 96.1359 % | 88.4615 % | 94.9704 % | 99.1606 % | 93.5000 % |
| Concentration per Run 3 | 0.0299 ppm | 92.7173 % | 96.9616 % | 89.2329 % | 94.4104 % | 99.0547 % | 93.5860 % |
| Concentration RSD | 1.4 % | 0.8 % | 0.7 % | 0.7 % | 0.3 % | 0.3 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474089-01 WG2012740
Analysis started at: 12/23/2024 11:19:10 PM
Rack 3
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 | -0.0003 ppm | 0.2373 ppm | 0.0008 ppm | 0.0216 ppm | 0.1458 ppm | 0.0000 ppm | 200.1524 ppm |
| Concentration per Run 1 | -0.0004 ppm | 0.2371 ppm | 0.0023 ppm | 0.0221 ppm | 0.1467 ppm | 0.0000 ppm | 200.5816 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.2409 ppm | -0.0004 ppm | 0.0216 ppm | 0.1458 ppm | 0.0000 ppm | 200.5099 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.2340 ppm | 0.0005 ppm | 0.0211 ppm | 0.1449 ppm | 0.0000 ppm | 199.3656 ppm |
| Concentration RSD | 32.5 % | 1.5 % | 172.3 % | 2.4 % | 0.6 % | 158.0 % | 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 | -0.0012 ppm | 0.0003 ppm | 0.0010 ppm | 0.0035 ppm | 0.4633 ppm | 11.7971 ppm | 0.0250 ppm |
| Concentration per Run 1 | -0.0012 ppm | 0.0004 ppm | 0.0008 ppm | 0.0035 ppm | 0.4652 ppm | 11.9139 ppm | 0.0252 ppm |
| Concentration per Run 2 | -0.0013 ppm | 0.0001 ppm | 0.0012 ppm | 0.0035 ppm | 0.4627 ppm | 11.7373 ppm | 0.0257 ppm |
| Concentration per Run 3 | -0.0012 ppm | 0.0005 ppm | 0.0010 ppm | 0.0035 ppm | 0.4620 ppm | 11.7401 ppm | 0.0242 ppm |
| Concentration RSD | 1.7 % | 74.6 % | 19.8 % | 0.6 % | 0.4 % | 0.9 % | 2.9 % |

| | 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 | 48.8559 ppm | 0.0240 ppm | 0.0017 ppm | 1,428.5553 [SIC 500] | 0.0029 ppm | 0.0039 ppm | 0.0029 ppm |
| Concentration per Run 1 | 49.3476 ppm | 0.0240 ppm | 0.0020 ppm | 1,453.2504 ppm | 0.0026 ppm | 0.0043 ppm | -0.0009 ppm |
| Concentration per Run 2 | 48.7745 ppm | 0.0243 ppm | 0.0019 ppm | 1,427.9473 ppm | 0.0026 ppm | 0.0038 ppm | 0.0040 ppm |
| Concentration per Run 3 | 48.4456 ppm | 0.0238 ppm | 0.0014 ppm | 1,404.4681 ppm | 0.0034 ppm | 0.0035 ppm | 0.0055 ppm |
| Concentration RSD | 0.9 % | 1.0 % | 19.7 % | 1.7 % | 16.0 % | 10.7 % | 117.3 % |

| | 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 | -0.0008 ppm | 1.3491 ppm | -0.0002 ppm | 1.1148 ppm | 0.0040 ppm | 0.0006 ppm | 0.0009 ppm |
| Concentration per Run 1 | 0.0003 ppm | 1.3539 ppm | -0.0002 ppm | 1.1206 ppm | 0.0043 ppm | 0.0019 ppm | 0.0009 ppm |
| Concentration per Run 2 | -0.0016 ppm | 1.3466 ppm | 0.0009 ppm | 1.1154 ppm | 0.0037 ppm | 0.0003 ppm | 0.0009 ppm |
| Concentration per Run 3 | -0.0009 ppm | 1.3468 ppm | -0.0013 ppm | 1.1083 ppm | 0.0040 ppm | -0.0002 ppm | 0.0009 ppm |
| Concentration RSD | 124.0 % | 0.3 % | 495.0 % | 0.6 % | 7.5 % | 166.1 % | 4.7 % |

| | 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 | 0.0376 ppm | 74.1893 % | 85.9361 % | 63.4729 % | 74.8642 % | 87.5824 % | 77.1523 % |
| Concentration per Run 1 | 0.0377 ppm | 73.6427 % | 85.8504 % | 63.1454 % | 74.7444 % | 87.8099 % | 77.0407 % |
| Concentration per Run 2 | 0.0381 ppm | 74.3603 % | 85.7767 % | 63.4531 % | 75.2146 % | 87.3960 % | 77.1775 % |
| Concentration per Run 3 | 0.0370 ppm | 74.5650 % | 86.1812 % | 63.8201 % | 74.6335 % | 87.5414 % | 77.2387 % |
| Concentration RSD | 1.4 % | 0.7 % | 0.3 % | 0.5 % | 0.4 % | 0.2 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474087-01 WG2012740
Analysis started at: 12/23/2024 11:23:39 PM
Rack 3
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 | 0.0021 ppm | 0.0909 ppm | -0.0011 ppm | 0.0518 ppm | 0.0787 ppm | 0.0000 ppm | 49.3154 ppm |
| Concentration per Run 1 | 0.0020 ppm | 0.0947 ppm | -0.0006 ppm | 0.0519 ppm | 0.0790 ppm | 0.0000 ppm | 49.7323 ppm |
| Concentration per Run 2 | 0.0021 ppm | 0.0854 ppm | -0.0016 ppm | 0.0522 ppm | 0.0787 ppm | 0.0000 ppm | 49.3587 ppm |
| Concentration per Run 3 | 0.0020 ppm | 0.0926 ppm | -0.0011 ppm | 0.0513 ppm | 0.0783 ppm | 0.0000 ppm | 48.8551 ppm |
| Concentration RSD | 2.8 % | 5.4 % | 48.8 % | 0.9 % | 0.5 % | 257.3 % | 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 | -0.0002 ppm | 0.0004 ppm | 0.0008 ppm | 0.0070 ppm | 0.3406 ppm | 2.9380 ppm | 0.0106 ppm |
| Concentration per Run 1 | -0.0003 ppm | 0.0003 ppm | 0.0009 ppm | 0.0067 ppm | 0.3436 ppm | 2.9283 ppm | 0.0106 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0000 ppm | 0.0007 ppm | 0.0070 ppm | 0.3395 ppm | 2.9220 ppm | 0.0102 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0008 ppm | 0.0007 ppm | 0.0073 ppm | 0.3387 ppm | 2.9637 ppm | 0.0109 ppm |
| Concentration RSD | 21.2 % | 114.1 % | 14.6 % | 4.8 % | 0.8 % | 0.8 % | 3.6 % |

| | 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 | 11.2658 ppm | 0.0110 ppm | 0.0023 ppm | 319.5457 ppm | 0.0026 ppm | 0.0018 ppm | 0.0025 ppm |
| Concentration per Run 1 | 11.3718 ppm | 0.0111 ppm | 0.0025 ppm | 316.3777 ppm | 0.0024 ppm | 0.0021 ppm | 0.0030 ppm |
| Concentration per Run 2 | 11.2183 ppm | 0.0110 ppm | 0.0023 ppm | 319.5316 ppm | 0.0026 ppm | 0.0013 ppm | 0.0015 ppm |
| Concentration per Run 3 | 11.2073 ppm | 0.0110 ppm | 0.0023 ppm | 322.7279 ppm | 0.0028 ppm | 0.0021 ppm | 0.0031 ppm |
| Concentration RSD | 0.8 % | 0.7 % | 5.3 % | 1.0 % | 6.3 % | 25.1 % | 34.3 % |

| | 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 | -0.0012 ppm | 1.9505 ppm | -0.0006 ppm | 0.3765 ppm | 0.0010 ppm | 0.0004 ppm | 0.0006 ppm |
| Concentration per Run 1 | -0.0020 ppm | 1.9539 ppm | -0.0008 ppm | 0.3774 ppm | 0.0014 ppm | -0.0001 ppm | 0.0006 ppm |
| Concentration per Run 2 | -0.0008 ppm | 1.9547 ppm | -0.0006 ppm | 0.3757 ppm | 0.0007 ppm | 0.0006 ppm | 0.0005 ppm |
| Concentration per Run 3 | -0.0009 ppm | 1.9429 ppm | -0.0005 ppm | 0.3764 ppm | 0.0009 ppm | 0.0008 ppm | 0.0006 ppm |
| Concentration RSD | 58.2 % | 0.3 % | 28.9 % | 0.2 % | 36.7 % | 98.6 % | 12.8 % |

| | 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 | 0.0208 ppm | 84.3975 % | 92.3198 % | 76.3121 % | 86.0334 % | 94.4510 % | 87.3096 % |
| Concentration per Run 1 | 0.0207 ppm | 83.9549 % | 91.4708 % | 76.0767 % | 86.2611 % | 93.7453 % | 87.4626 % |
| Concentration per Run 2 | 0.0207 ppm | 84.4173 % | 92.0172 % | 75.9465 % | 85.8160 % | 94.1194 % | 87.1542 % |
| Concentration per Run 3 | 0.0211 ppm | 84.8203 % | 93.4714 % | 76.9130 % | 86.0230 % | 95.4884 % | 87.3120 % |
| Concentration RSD | 0.9 % | 0.5 % | 1.1 % | 0.7 % | 0.3 % | 1.0 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2473876-01 WG2012740
Analysis started at: 12/23/2024 11:28:09 PM
Rack 3
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 | 0.0137 ppm | 0.3773 ppm | 0.0134 ppm | 0.3802 ppm | 0.0002 ppm | 0.0000 ppm | 5.7178 ppm |
| Concentration per Run 1 | 0.0137 ppm | 0.3850 ppm | 0.0121 ppm | 0.3800 ppm | 0.0003 ppm | 0.0000 ppm | 5.7216 ppm |
| Concentration per Run 2 | 0.0135 ppm | 0.3724 ppm | 0.0143 ppm | 0.3768 ppm | 0.0002 ppm | 0.0000 ppm | 5.7294 ppm |
| Concentration per Run 3 | 0.0139 ppm | 0.3746 ppm | 0.0136 ppm | 0.3837 ppm | 0.0002 ppm | 0.0000 ppm | 5.7025 ppm |
| Concentration RSD | 1.6 % | 1.8 % | 8.6 % | 0.9 % | 5.9 % | 139.3 % | 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 | -0.0002 ppm | 0.0028 ppm | 0.3269 ppm | 0.0028 ppm | 0.0873 ppm | 34.2434 ppm | 0.0438 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0025 ppm | 0.3271 ppm | 0.0029 ppm | 0.0882 ppm | 33.9228 ppm | 0.0447 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0030 ppm | 0.3265 ppm | 0.0025 ppm | 0.0871 ppm | 34.4973 ppm | 0.0441 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0031 ppm | 0.3270 ppm | 0.0029 ppm | 0.0864 ppm | 34.3101 ppm | 0.0427 ppm |
| Concentration RSD | 13.4 % | 11.4 % | 0.1 % | 8.3 % | 1.0 % | 0.9 % | 2.4 % |

| | 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 | 6.6581 ppm | 0.1952 ppm | 0.9434 ppm | 3,594.3533 [SIC 500] | 0.0093 ppm | 0.0012 ppm | 0.0796 ppm |
| Concentration per Run 1 | 6.6528 ppm | 0.1952 ppm | 0.9400 ppm | 3,631.7928 ppm | 0.0092 ppm | 0.0011 ppm | 0.0782 ppm |
| Concentration per Run 2 | 6.6539 ppm | 0.1957 ppm | 0.9389 ppm | 3,614.5234 ppm | 0.0093 ppm | 0.0018 ppm | 0.0795 ppm |
| Concentration per Run 3 | 6.6678 ppm | 0.1948 ppm | 0.9513 ppm | 3,536.7439 ppm | 0.0094 ppm | 0.0009 ppm | 0.0812 ppm |
| Concentration RSD | 0.1 % | 0.2 % | 0.7 % | 1.4 % | 1.3 % | 38.3 % | 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 | 0.0011 ppm | 6.9845 ppm | 0.0048 ppm | 0.0167 ppm | 0.0035 ppm | -0.0002 ppm | 0.0043 ppm |
| Concentration per Run 1 | 0.0015 ppm | 7.0058 ppm | 0.0054 ppm | 0.0168 ppm | 0.0034 ppm | -0.0009 ppm | 0.0042 ppm |
| Concentration per Run 2 | 0.0014 ppm | 6.9639 ppm | 0.0049 ppm | 0.0167 ppm | 0.0035 ppm | -0.0001 ppm | 0.0045 ppm |
| Concentration per Run 3 | 0.0003 ppm | 6.9837 ppm | 0.0042 ppm | 0.0167 ppm | 0.0036 ppm | 0.0005 ppm | 0.0043 ppm |
| Concentration RSD | 64.6 % | 0.3 % | 12.0 % | 0.3 % | 2.6 % | 465.0 % | 3.4 % |

| | 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 | 0.0179 ppm | 64.6731 % | 80.7489 % | 54.1824 % | 59.9654 % | 78.6780 % | 63.6687 % |
| Concentration per Run 1 | 0.0181 ppm | 64.7071 % | 80.9272 % | 54.2965 % | 60.2594 % | 78.8727 % | 63.7734 % |
| Concentration per Run 2 | 0.0176 ppm | 64.8758 % | 80.3979 % | 53.8819 % | 59.9237 % | 77.9331 % | 63.3516 % |
| Concentration per Run 3 | 0.0180 ppm | 64.4365 % | 80.9216 % | 54.3688 % | 59.7131 % | 79.2283 % | 63.8811 % |
| Concentration RSD | 1.5 % | 0.3 % | 0.4 % | 0.5 % | 0.5 % | 0.9 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012740-7 WG2012740
Analysis started at: 12/23/2024 11:32:37 PM
Rack 3
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 | 0.0764 ppm | 2.5724 ppm | 0.1562 ppm | 1.2259 ppm | 1.1600 ppm | 0.0472 ppm | 15.1339 ppm |
| Concentration per Run 1 | 0.0766 ppm | 2.5772 ppm | 0.1574 ppm | 1.2249 ppm | 1.1758 ppm | 0.0473 ppm | 15.1655 ppm |
| Concentration per Run 2 | 0.0763 ppm | 2.5824 ppm | 0.1562 ppm | 1.2270 ppm | 1.1494 ppm | 0.0470 ppm | 15.1144 ppm |
| Concentration per Run 3 | 0.0764 ppm | 2.5576 ppm | 0.1548 ppm | 1.2257 ppm | 1.1548 ppm | 0.0473 ppm | 15.1218 ppm |
| Concentration RSD | 0.2 % | 0.5 % | 0.8 % | 0.1 % | 1.2 % | 0.3 % | 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 | 0.0493 ppm | 0.4458 ppm | 0.5209 ppm | 0.2687 ppm | 1.0226 ppm | 47.8470 ppm | 0.0449 ppm |
| Concentration per Run 1 | 0.0496 ppm | 0.4463 ppm | 0.5233 ppm | 0.2669 ppm | 1.0230 ppm | 47.8247 ppm | 0.0453 ppm |
| Concentration per Run 2 | 0.0490 ppm | 0.4458 ppm | 0.5194 ppm | 0.2712 ppm | 1.0152 ppm | 47.4017 ppm | 0.0446 ppm |
| Concentration per Run 3 | 0.0492 ppm | 0.4453 ppm | 0.5201 ppm | 0.2679 ppm | 1.0296 ppm | 48.3146 ppm | 0.0448 ppm |
| Concentration RSD | 0.6 % | 0.1 % | 0.4 % | 0.8 % | 0.7 % | 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 | 14.5796 ppm | 0.6666 ppm | 1.7888 ppm | 3,215.6003 [SIC 500] | 0.4372 ppm | 0.3353 ppm | 0.6166 ppm |
| Concentration per Run 1 | 14.6899 ppm | 0.6681 ppm | 1.7786 ppm | 3,258.9014 ppm | 0.4393 ppm | 0.3291 ppm | 0.6182 ppm |
| Concentration per Run 2 | 14.4457 ppm | 0.6649 ppm | 1.7875 ppm | 3,215.7884 ppm | 0.4342 ppm | 0.3351 ppm | 0.6191 ppm |
| Concentration per Run 3 | 14.6030 ppm | 0.6668 ppm | 1.8004 ppm | 3,172.1109 ppm | 0.4381 ppm | 0.3417 ppm | 0.6124 ppm |
| Concentration RSD | 0.8 % | 0.2 % | 0.6 % | 1.3 % | 0.6 % | 1.9 % | 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 | 0.1561 ppm | 8.3347 ppm | 0.8015 ppm | 0.9712 ppm | 0.9172 ppm | 0.1017 ppm | 0.5018 ppm |
| Concentration per Run 1 | 0.1564 ppm | 8.3229 ppm | 0.8104 ppm | 0.9714 ppm | 0.9212 ppm | 0.1031 ppm | 0.5008 ppm |
| Concentration per Run 2 | 0.1548 ppm | 8.3515 ppm | 0.8075 ppm | 0.9693 ppm | 0.9167 ppm | 0.0995 ppm | 0.5009 ppm |
| Concentration per Run 3 | 0.1571 ppm | 8.3297 ppm | 0.7867 ppm | 0.9730 ppm | 0.9139 ppm | 0.1025 ppm | 0.5035 ppm |
| Concentration RSD | 0.8 % | 0.2 % | 1.6 % | 0.2 % | 0.4 % | 1.9 % | 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 | 0.5099 ppm | 64.3070 % | 80.3369 % | 52.1653 % | 60.0231 % | 78.2935 % | 62.8187 % |
| Concentration per Run 1 | 0.5145 ppm | 64.5326 % | 80.3807 % | 52.3945 % | 60.2112 % | 78.5671 % | 63.1123 % |
| Concentration per Run 2 | 0.5066 ppm | 64.1650 % | 80.4659 % | 52.4682 % | 59.6737 % | 78.2290 % | 62.9065 % |
| Concentration per Run 3 | 0.5087 ppm | 64.2232 % | 80.1642 % | 51.6332 % | 60.1844 % | 78.0845 % | 62.4373 % |
| Concentration RSD | 0.8 % | 0.3 % | 0.2 % | 0.9 % | 0.5 % | 0.3 % | 0.6 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012740-8 WG2012740
Analysis started at: 12/23/2024 11:37:06 PM
Rack 3
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 | 0.0145 ppm | 0.4011 ppm | 0.0122 ppm | 0.4052 ppm | 0.0003 ppm | 0.0000 ppm | 6.0443 ppm |
| Concentration per Run 1 | 0.0145 ppm | 0.4044 ppm | 0.0131 ppm | 0.4044 ppm | 0.0003 ppm | 0.0000 ppm | 6.0163 ppm |
| Concentration per Run 2 | 0.0144 ppm | 0.3968 ppm | 0.0119 ppm | 0.4065 ppm | 0.0003 ppm | 0.0000 ppm | 6.0612 ppm |
| Concentration per Run 3 | 0.0146 ppm | 0.4022 ppm | 0.0117 ppm | 0.4049 ppm | 0.0003 ppm | 0.0000 ppm | 6.0556 ppm |
| Concentration RSD | 0.8 % | 1.0 % | 6.4 % | 0.3 % | 4.9 % | 58.0 % | 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 | 0.0026 ppm | 0.3467 ppm | 0.0028 ppm | 0.0930 ppm | 36.8180 ppm | 0.0444 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0028 ppm | 0.3493 ppm | 0.0026 ppm | 0.0927 ppm | 36.7580 ppm | 0.0448 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0027 ppm | 0.3466 ppm | 0.0030 ppm | 0.0932 ppm | 36.7240 ppm | 0.0446 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0024 ppm | 0.3441 ppm | 0.0028 ppm | 0.0930 ppm | 36.9719 ppm | 0.0437 ppm |
| Concentration RSD | 55.1 % | 7.2 % | 0.7 % | 5.7 % | 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 | 7.0170 ppm | 0.2066 ppm | 1.0223 ppm | 2,956.4289 [SIC 500] | 0.0093 ppm | 0.0020 ppm | 0.0830 ppm |
| Concentration per Run 1 | 7.0558 ppm | 0.2058 ppm | 1.0201 ppm | 2,942.9870 ppm | 0.0095 ppm | 0.0021 ppm | 0.0851 ppm |
| Concentration per Run 2 | 7.0285 ppm | 0.2070 ppm | 1.0232 ppm | 2,997.6101 ppm | 0.0094 ppm | 0.0019 ppm | 0.0808 ppm |
| Concentration per Run 3 | 6.9666 ppm | 0.2070 ppm | 1.0237 ppm | 2,928.6895 ppm | 0.0089 ppm | 0.0020 ppm | 0.0831 ppm |
| Concentration RSD | 0.7 % | 0.3 % | 0.2 % | 1.2 % | 3.5 % | 5.8 % | 2.6 % |

| | 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 | 0.0005 ppm | 7.4255 ppm | 0.0038 ppm | 0.0178 ppm | 0.0041 ppm | -0.0002 ppm | 0.0046 ppm |
| Concentration per Run 1 | 0.0006 ppm | 7.4350 ppm | 0.0037 ppm | 0.0179 ppm | 0.0043 ppm | -0.0004 ppm | 0.0047 ppm |
| Concentration per Run 2 | 0.0004 ppm | 7.4276 ppm | 0.0033 ppm | 0.0177 ppm | 0.0041 ppm | -0.0013 ppm | 0.0047 ppm |
| Concentration per Run 3 | 0.0003 ppm | 7.4137 ppm | 0.0043 ppm | 0.0178 ppm | 0.0041 ppm | 0.0010 ppm | 0.0045 ppm |
| Concentration RSD | 35.8 % | 0.1 % | 13.8 % | 0.6 % | 2.8 % | 472.8 % | 2.8 % |

| | 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 | 0.0174 ppm | 63.5550 % | 80.4432 % | 53.1655 % | 59.1239 % | 78.2664 % | 62.6034 % |
| Concentration per Run 1 | 0.0175 ppm | 63.5091 % | 80.7968 % | 53.1853 % | 58.9515 % | 78.4784 % | 62.5347 % |
| Concentration per Run 2 | 0.0175 ppm | 63.5925 % | 80.0661 % | 53.3239 % | 59.3425 % | 77.9791 % | 62.8231 % |
| Concentration per Run 3 | 0.0171 ppm | 63.5635 % | 80.4667 % | 52.9872 % | 59.0777 % | 78.3416 % | 62.4523 % |
| Concentration RSD | 1.5 % | 0.1 % | 0.5 % | 0.3 % | 0.3 % | 0.3 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012740-9 WG2012740
Analysis started at: 12/23/2024 11:41:35 PM
Rack 3
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 | 0.0761 ppm | 2.4591 ppm | 0.1551 ppm | 1.2720 ppm | 1.8910 ppm | 0.0457 ppm | 15.3679 ppm |
| Concentration per Run 1 | 0.0761 ppm | 2.4559 ppm | 0.1531 ppm | 1.2745 ppm | 1.8843 ppm | 0.0458 ppm | 15.4906 ppm |
| Concentration per Run 2 | 0.0766 ppm | 2.4482 ppm | 0.1539 ppm | 1.2696 ppm | 1.8867 ppm | 0.0455 ppm | 15.2602 ppm |
| Concentration per Run 3 | 0.0757 ppm | 2.4732 ppm | 0.1584 ppm | 1.2718 ppm | 1.9020 ppm | 0.0457 ppm | 15.3529 ppm |
| Concentration RSD | 0.5 % | 0.5 % | 1.8 % | 0.2 % | 0.5 % | 0.3 % | 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 | 0.0475 ppm | 0.4320 ppm | 0.5330 ppm | 0.2650 ppm | 1.0049 ppm | 50.0555 ppm | 0.0458 ppm |
| Concentration per Run 1 | 0.0476 ppm | 0.4332 ppm | 0.5337 ppm | 0.2652 ppm | 1.0095 ppm | 49.7842 ppm | 0.0464 ppm |
| Concentration per Run 2 | 0.0473 ppm | 0.4315 ppm | 0.5333 ppm | 0.2656 ppm | 1.0012 ppm | 49.9941 ppm | 0.0454 ppm |
| Concentration per Run 3 | 0.0474 ppm | 0.4313 ppm | 0.5318 ppm | 0.2642 ppm | 1.0041 ppm | 50.3881 ppm | 0.0454 ppm |
| Concentration RSD | 0.3 % | 0.2 % | 0.2 % | 0.3 % | 0.4 % | 0.6 % | 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 | 14.9382 ppm | 0.6732 ppm | 1.8528 ppm | 2,850.6516 [SIC 500] | 0.4358 ppm | 0.4807 ppm | 0.5154 ppm |
| Concentration per Run 1 | 14.9509 ppm | 0.6757 ppm | 1.8478 ppm | 2,807.8331 ppm | 0.4387 ppm | 0.4788 ppm | 0.5170 ppm |
| Concentration per Run 2 | 14.9226 ppm | 0.6706 ppm | 1.8500 ppm | 2,845.4583 ppm | 0.4379 ppm | 0.4793 ppm | 0.5143 ppm |
| Concentration per Run 3 | 14.9410 ppm | 0.6733 ppm | 1.8607 ppm | 2,898.6634 ppm | 0.4308 ppm | 0.4840 ppm | 0.5147 ppm |
| Concentration RSD | 0.1 % | 0.4 % | 0.4 % | 1.6 % | 1.0 % | 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 | 0.1525 ppm | 8.4036 ppm | 0.8201 ppm | 1.0138 ppm | 0.9288 ppm | 0.0996 ppm | 0.4880 ppm |
| Concentration per Run 1 | 0.1537 ppm | 8.4197 ppm | 0.8213 ppm | 1.0115 ppm | 0.9281 ppm | 0.0994 ppm | 0.4875 ppm |
| Concentration per Run 2 | 0.1523 ppm | 8.4099 ppm | 0.8231 ppm | 1.0113 ppm | 0.9292 ppm | 0.1001 ppm | 0.4878 ppm |
| Concentration per Run 3 | 0.1515 ppm | 8.3810 ppm | 0.8159 ppm | 1.0187 ppm | 0.9290 ppm | 0.0994 ppm | 0.4887 ppm |
| Concentration RSD | 0.7 % | 0.2 % | 0.5 % | 0.4 % | 0.1 % | 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 | 0.5070 ppm | 63.5287 % | 80.0542 % | 51.5810 % | 59.1140 % | 78.1650 % | 61.9329 % |
| Concentration per Run 1 | 0.5095 ppm | 63.5595 % | 79.6612 % | 51.6909 % | 59.1683 % | 77.7715 % | 61.9901 % |
| Concentration per Run 2 | 0.5086 ppm | 63.7579 % | 80.4177 % | 51.8285 % | 59.4540 % | 78.5732 % | 61.9774 % |
| Concentration per Run 3 | 0.5030 ppm | 63.2689 % | 80.0837 % | 51.2235 % | 58.7197 % | 78.1501 % | 61.8312 % |
| Concentration RSD | 0.7 % | 0.4 % | 0.5 % | 0.6 % | 0.6 % | 0.5 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: WG2012740-10d5 WG2012740
Analysis started at: 12/23/2024 11:46:03 PM
Rack 3
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 | 0.0025 ppm | 0.0724 ppm | 0.0020 ppm | 0.0792 ppm | 0.0003 ppm | 0.0000 ppm | 1.1666 ppm |
| Concentration per Run 1 | 0.0026 ppm | 0.0774 ppm | 0.0031 ppm | 0.0798 ppm | 0.0003 ppm | 0.0000 ppm | 1.1601 ppm |
| Concentration per Run 2 | 0.0023 ppm | 0.0704 ppm | 0.0014 ppm | 0.0798 ppm | 0.0004 ppm | 0.0000 ppm | 1.1714 ppm |
| Concentration per Run 3 | 0.0025 ppm | 0.0695 ppm | 0.0016 ppm | 0.0780 ppm | 0.0003 ppm | 0.0000 ppm | 1.1683 ppm |
| Concentration RSD | 5.8 % | 6.0 % | 47.6 % | 1.3 % | 18.1 % | 185.5 % | 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 | -0.0001 ppm | 0.0006 ppm | 0.0631 ppm | 0.0007 ppm | 0.0205 ppm | 6.0992 ppm | 0.0098 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0010 ppm | 0.0633 ppm | 0.0008 ppm | 0.0209 ppm | 6.1270 ppm | 0.0100 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0004 ppm | 0.0627 ppm | 0.0007 ppm | 0.0197 ppm | 6.1071 ppm | 0.0094 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0005 ppm | 0.0635 ppm | 0.0006 ppm | 0.0210 ppm | 6.0635 ppm | 0.0101 ppm |
| Concentration RSD | 71.5 % | 55.8 % | 0.7 % | 13.2 % | 3.6 % | 0.5 % | 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 | 1.4437 ppm | 0.0395 ppm | 0.2389 ppm | 1,308.2919 [SIC 500] | 0.0021 ppm | -0.0006 ppm | 0.0230 ppm |
| Concentration per Run 1 | 1.4573 ppm | 0.0395 ppm | 0.2397 ppm | 1,303.0205 ppm | 0.0022 ppm | -0.0008 ppm | 0.0227 ppm |
| Concentration per Run 2 | 1.4386 ppm | 0.0395 ppm | 0.2383 ppm | 1,311.4010 ppm | 0.0019 ppm | 0.0006 ppm | 0.0250 ppm |
| Concentration per Run 3 | 1.4353 ppm | 0.0394 ppm | 0.2385 ppm | 1,310.4540 ppm | 0.0021 ppm | -0.0015 ppm | 0.0214 ppm |
| Concentration RSD | 0.8 % | 0.1 % | 0.3 % | 0.4 % | 8.6 % | 183.8 % | 8.0 % |

| | 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 | 1.2966 ppm | 0.0017 ppm | 0.0034 ppm | 0.0011 ppm | -0.0001 ppm | 0.0009 ppm |
| Concentration per Run 1 | 0.0005 ppm | 1.3033 ppm | 0.0026 ppm | 0.0034 ppm | 0.0013 ppm | -0.0010 ppm | 0.0010 ppm |
| Concentration per Run 2 | -0.0011 ppm | 1.2949 ppm | 0.0013 ppm | 0.0035 ppm | 0.0010 ppm | -0.0005 ppm | 0.0010 ppm |
| Concentration per Run 3 | -0.0010 ppm | 1.2917 ppm | 0.0012 ppm | 0.0034 ppm | 0.0011 ppm | 0.0012 ppm | 0.0008 ppm |
| Concentration RSD | 166.8 % | 0.5 % | 45.5 % | 1.5 % | 12.9 % | 1,060.9 % | 15.2 % |

| | 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 | 0.0032 ppm | 78.0086 % | 90.4178 % | 67.6440 % | 74.5658 % | 88.7288 % | 78.0757 % |
| Concentration per Run 1 | 0.0032 ppm | 77.5009 % | 91.0439 % | 67.3314 % | 74.5707 % | 89.4673 % | 77.9645 % |
| Concentration per Run 2 | 0.0033 ppm | 78.2477 % | 89.6575 % | 67.5140 % | 74.7709 % | 88.2958 % | 77.9310 % |
| Concentration per Run 3 | 0.0030 ppm | 78.2773 % | 90.5519 % | 68.0866 % | 74.3557 % | 88.4233 % | 78.3318 % |
| Concentration RSD | 4.6 % | 0.6 % | 0.8 % | 0.6 % | 0.3 % | 0.7 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/23/2024 11:50:32 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 | 0.4891 ppm | 0.4940 ppm | 0.4573 ppm | 0.4474 ppm | 0.5037 ppm | 0.4895 ppm | 0.4790 ppm |
| Concentration per Run 1 | 0.4913 ppm | 0.4940 ppm | 0.4565 ppm | 0.4471 ppm | 0.5015 ppm | 0.4889 ppm | 0.4784 ppm |
| Concentration per Run 2 | 0.4894 ppm | 0.4941 ppm | 0.4578 ppm | 0.4509 ppm | 0.5046 ppm | 0.4904 ppm | 0.4798 ppm |
| Concentration per Run 3 | 0.4866 ppm | 0.4939 ppm | 0.4575 ppm | 0.4444 ppm | 0.5048 ppm | 0.4891 ppm | 0.4787 ppm |
| Recovery Percentage 1 | 97.813 % | 98.801 % | 91.455 % | 89.489 % | 100.733 % | 97.901 % | 95.791 % |
| Concentration RSD | 0.5 % | 0.0 % | 0.2 % | 0.7 % | 0.4 % | 0.2 % | 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 | 0.4667 ppm | 0.4924 ppm | 0.4780 ppm | 0.4870 ppm | 0.4858 ppm | 5.6043 ppm | 0.5284 ppm |
| Concentration per Run 1 | 0.4676 ppm | 0.4947 ppm | 0.4776 ppm | 0.4891 ppm | 0.4832 ppm | 5.6120 ppm | 0.5301 ppm |
| Concentration per Run 2 | 0.4688 ppm | 0.4943 ppm | 0.4801 ppm | 0.4883 ppm | 0.4900 ppm | 5.6083 ppm | 0.5275 ppm |
| Concentration per Run 3 | 0.4636 ppm | 0.4881 ppm | 0.4762 ppm | 0.4836 ppm | 0.4842 ppm | 5.5927 ppm | 0.5276 ppm |
| Recovery Percentage 1 | 93.339 % | 98.473 % | 95.594 % | 97.402 % | 97.157 % | 112.087 % | 105.685 % |
| Concentration RSD | 0.6 % | 0.7 % | 0.4 % | 0.6 % | 0.8 % | 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 | 0.4790 ppm | 0.4761 ppm | 0.4729 ppm | 11.9151 ppm | 0.4868 ppm | 0.4848 ppm | 0.4910 ppm |
| Concentration per Run 1 | 0.4803 ppm | 0.4769 ppm | 0.4689 ppm | 12.0010 ppm | 0.4875 ppm | 0.4861 ppm | 0.4876 ppm |
| Concentration per Run 2 | 0.4791 ppm | 0.4773 ppm | 0.4771 ppm | 11.8576 ppm | 0.4894 ppm | 0.4849 ppm | 0.4951 ppm |
| Concentration per Run 3 | 0.4775 ppm | 0.4743 ppm | 0.4726 ppm | 11.8867 ppm | 0.4835 ppm | 0.4835 ppm | 0.4903 ppm |
| Recovery Percentage 1 | 95.792 % | 95.227 % | 94.572 % | 119.151 % | 97.355 % | 96.965 % | 98.195 % |
| Concentration RSD | 0.3 % | 0.3 % | 0.9 % | 0.6 % | 0.6 % | 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 | 0.4725 ppm | 5.1337 ppm | 0.4949 ppm | 0.5370 ppm | 0.4797 ppm | 0.4841 ppm | 0.4923 ppm |
| Concentration per Run 1 | 0.4701 ppm | 5.1414 ppm | 0.4937 ppm | 0.5375 ppm | 0.4819 ppm | 0.4844 ppm | 0.4952 ppm |
| Concentration per Run 2 | 0.4727 ppm | 5.1509 ppm | 0.5020 ppm | 0.5365 ppm | 0.4793 ppm | 0.4854 ppm | 0.4921 ppm |
| Concentration per Run 3 | 0.4746 ppm | 5.1087 ppm | 0.4889 ppm | 0.5370 ppm | 0.4780 ppm | 0.4823 ppm | 0.4898 ppm |
| Recovery Percentage 1 | 94.494 % | 97.784 % | 98.972 % | 107.396 % | 95.942 % | 96.812 % | 98.469 % |
| Concentration RSD | 0.5 % | 0.4 % | 1.3 % | 0.1 % | 0.4 % | 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 | 0.4672 ppm | 98.6488 % | 99.1128 % | 93.5521 % | 94.6434 % | 98.1173 % | 94.5487 % |
| Concentration per Run 1 | 0.4680 ppm | 98.3454 % | 99.1040 % | 93.4390 % | 94.8504 % | 98.4517 % | 94.6457 % |
| Concentration per Run 2 | 0.4695 ppm | 98.5476 % | 99.1500 % | 93.6674 % | 94.8883 % | 98.2695 % | 94.7707 % |
| Concentration per Run 3 | 0.4642 ppm | 99.0534 % | 99.0844 % | 93.5499 % | 94.1917 % | 97.6306 % | 94.2297 % |
| Recovery Percentage 1 | 93.449 % | | | | | | |
| Concentration RSD | 0.6 % | 0.4 % | 0.0 % | 0.1 % | 0.4 % | 0.4 % | 0.3 % |

# iCAP Pro Trace 8 Data report
12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/23/2024 11:54:59 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 | -0.0032 ppm | -0.0013 ppm | 0.0014 ppm | 0.0003 ppm | 0.0001 ppm | 0.0011 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0014 ppm | -0.0012 ppm | 0.0012 ppm | 0.0003 ppm | 0.0001 ppm | 0.0011 ppm |
| Concentration per Run 2 | 0.0001 ppm | -0.0033 ppm | -0.0015 ppm | 0.0029 ppm | 0.0003 ppm | 0.0000 ppm | 0.0009 ppm |
| Concentration per Run 3 | 0.0003 ppm | -0.0048 ppm | -0.0012 ppm | 0.0001 ppm | 0.0003 ppm | 0.0000 ppm | 0.0013 ppm |
| Recovery Percentage 1 | 3.187 % | -3.156 % | -26.209 % | 4.581 % | 3.006 % | 1.044 % | 1.105 % |
| Concentration RSD | 86.0 % | 53.4 % | 15.6 % | 102.8 % | 1.8 % | 56.1 % | 16.0 % |

| | 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 | -0.0002 ppm | 0.0019 ppm | 0.0872 ppm | -0.0002 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0000 ppm | 0.0001 ppm | -0.0003 ppm | 0.0020 ppm | 0.0908 ppm | -0.0001 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0006 ppm | 0.0001 ppm | -0.0001 ppm | 0.0019 ppm | 0.0866 ppm | -0.0002 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0005 ppm | -0.0001 ppm | -0.0001 ppm | 0.0017 ppm | 0.0841 ppm | -0.0001 ppm |
| Recovery Percentage 1 | 0.289 % | -3.510 % | 0.044 % | -1.688 % | 3.731 % | 3.486 % | -1.569 % |
| Concentration RSD | 486.4 % | 89.0 % | 2,970.6 % | 55.5 % | 10.6 % | 3.9 % | 44.6 % |

| | 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 | -0.0009 ppm | 0.0001 ppm | 0.0042 ppm | 1.1589 ppm | -0.0005 ppm | -0.0001 ppm | 0.0031 ppm |
| Concentration per Run 1 | -0.0005 ppm | 0.0000 ppm | 0.0044 ppm | 1.1639 ppm | -0.0007 ppm | -0.0007 ppm | 0.0020 ppm |
| Concentration per Run 2 | -0.0011 ppm | 0.0002 ppm | 0.0042 ppm | 1.1541 ppm | -0.0004 ppm | 0.0002 ppm | 0.0034 ppm |
| Concentration per Run 3 | -0.0012 ppm | 0.0000 ppm | 0.0041 ppm | 1.1587 ppm | -0.0003 ppm | 0.0001 ppm | 0.0040 ppm |
| Recovery Percentage 1 | -0.902 % | 0.642 % | 8.468 % | 57.945 % | -1.872 % | -1.455 % | 6.245 % |
| Concentration RSD | 41.9 % | 144.6 % | 3.5 % | 0.4 % | 50.0 % | 360.0 % | 33.7 % |

| | 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 | 0.0013 ppm | 0.0006 ppm | 0.0001 ppm | -0.0001 ppm | 0.0003 ppm | 0.0002 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0011 ppm | 0.0011 ppm | 0.0001 ppm | -0.0002 ppm | 0.0005 ppm | 0.0003 ppm |
| Concentration per Run 2 | -0.0011 ppm | 0.0010 ppm | 0.0001 ppm | 0.0001 ppm | -0.0002 ppm | -0.0002 ppm | 0.0002 ppm |
| Concentration per Run 3 | 0.0004 ppm | 0.0016 ppm | 0.0005 ppm | 0.0002 ppm | 0.0001 ppm | 0.0006 ppm | 0.0002 ppm |
| Recovery Percentage 1 | -2.615 % | 0.251 % | 1.104 % | 1.237 % | -0.809 % | 1.351 % | 2.216 % |
| Concentration RSD | 279.5 % | 25.5 % | 89.1 % | 48.5 % | 224.4 % | 169.1 % | 23.6 % |

| | 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 | -0.0006 ppm | 95.8193 % | 97.5291 % | 94.2507 % | 96.7184 % | 98.7079 % | 95.8828 % |
| Concentration per Run 1 | -0.0006 ppm | 95.0145 % | 97.1529 % | 93.9606 % | 96.5940 % | 98.9191 % | 95.8519 % |
| Concentration per Run 2 | -0.0006 ppm | 95.8057 % | 97.6549 % | 94.1106 % | 96.6348 % | 98.4632 % | 95.8928 % |
| Concentration per Run 3 | -0.0006 ppm | 96.6378 % | 97.7796 % | 94.6809 % | 96.9265 % | 98.7414 % | 95.9037 % |
| Recovery Percentage 1 | -12.108 % | | | | | | |
| Concentration RSD | 3.8 % | 0.8 % | 0.3 % | 0.4 % | 0.2 % | 0.2 % | 0.0 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474004-01d2 WG2012740
Analysis started at: 12/23/2024 11:59:27 PM
Rack 3
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 | -0.0001 ppm | 0.0212 ppm | 0.0003 ppm | 0.1787 ppm | 0.0717 ppm | 0.0000 ppm | 23.0419 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0224 ppm | 0.0006 ppm | 0.1785 ppm | 0.0719 ppm | 0.0000 ppm | 23.2504 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0182 ppm | 0.0006 ppm | 0.1796 ppm | 0.0720 ppm | 0.0000 ppm | 22.8849 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0231 ppm | -0.0003 ppm | 0.1782 ppm | 0.0714 ppm | 0.0000 ppm | 22.9905 ppm |
| Concentration RSD | 88.4 % | 12.4 % | 180.7 % | 0.4 % | 0.5 % | 438.5 % | 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 | -0.0002 ppm | 0.0012 ppm | 0.0027 ppm | 0.0053 ppm | 0.9943 ppm | 25.2288 ppm | 0.0518 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0013 ppm | 0.0028 ppm | 0.0052 ppm | 0.9952 ppm | 25.2126 ppm | 0.0524 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0011 ppm | 0.0025 ppm | 0.0054 ppm | 0.9964 ppm | 25.3101 ppm | 0.0517 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0011 ppm | 0.0027 ppm | 0.0052 ppm | 0.9913 ppm | 25.1636 ppm | 0.0512 ppm |
| Concentration RSD | 22.1 % | 10.2 % | 6.6 % | 2.9 % | 0.3 % | 0.3 % | 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 | 4.6161 ppm | 0.1562 ppm | 0.0131 ppm | 2,550.5324 [SIC 500] | 0.0130 ppm | 0.0001 ppm | 0.0047 ppm |
| Concentration per Run 1 | 4.6506 ppm | 0.1570 ppm | 0.0131 ppm | 2,551.6516 ppm | 0.0132 ppm | 0.0009 ppm | 0.0047 ppm |
| Concentration per Run 2 | 4.6153 ppm | 0.1553 ppm | 0.0135 ppm | 2,541.7654 ppm | 0.0127 ppm | 0.0002 ppm | 0.0033 ppm |
| Concentration per Run 3 | 4.5823 ppm | 0.1563 ppm | 0.0127 ppm | 2,558.1803 ppm | 0.0132 ppm | -0.0009 ppm | 0.0062 ppm |
| Concentration RSD | 0.7 % | 0.5 % | 2.8 % | 0.3 % | 2.4 % | 970.7 % | 30.6 % |

| | 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 | -0.0008 ppm | 1.5186 ppm | 0.0002 ppm | 0.3880 ppm | -0.0003 ppm | -0.0010 ppm | 0.0003 ppm |
| Concentration per Run 1 | -0.0005 ppm | 1.5324 ppm | -0.0004 ppm | 0.3872 ppm | -0.0002 ppm | -0.0006 ppm | 0.0003 ppm |
| Concentration per Run 2 | -0.0021 ppm | 1.5116 ppm | 0.0005 ppm | 0.3895 ppm | -0.0003 ppm | -0.0005 ppm | 0.0004 ppm |
| Concentration per Run 3 | 0.0002 ppm | 1.5119 ppm | 0.0006 ppm | 0.3874 ppm | -0.0004 ppm | -0.0020 ppm | 0.0002 ppm |
| Concentration RSD | 144.2 % | 0.8 % | 269.7 % | 0.3 % | 20.2 % | 85.3 % | 34.8 % |

| | 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 | 0.0163 ppm | 66.2515 % | 82.9007 % | 58.2160 % | 66.1910 % | 83.7980 % | 70.9935 % |
| Concentration per Run 1 | 0.0161 ppm | 65.7757 % | 82.5311 % | 57.8221 % | 66.2336 % | 83.7625 % | 70.8276 % |
| Concentration per Run 2 | 0.0165 ppm | 66.4582 % | 83.3677 % | 58.3095 % | 66.3914 % | 84.1639 % | 70.9929 % |
| Concentration per Run 3 | 0.0164 ppm | 66.5205 % | 82.8034 % | 58.5164 % | 65.9479 % | 83.4676 % | 71.1600 % |
| Concentration RSD | 1.2 % | 0.6 % | 0.5 % | 0.6 % | 0.3 % | 0.4 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474004-02d2 WG2012740
Analysis started at: 12/24/2024 12:03:56 AM
Rack 3
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 | 0.0000 ppm | 0.0184 ppm | -0.0003 ppm | 0.1181 ppm | 0.0531 ppm | 0.0000 ppm | 13.9818 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0113 ppm | 0.0013 ppm | 0.1194 ppm | 0.0532 ppm | 0.0000 ppm | 13.9571 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0177 ppm | -0.0021 ppm | 0.1190 ppm | 0.0531 ppm | 0.0000 ppm | 14.0082 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0261 ppm | -0.0001 ppm | 0.1161 ppm | 0.0530 ppm | 0.0000 ppm | 13.9802 ppm |
| Concentration RSD | 455.0 % | 40.4 % | 548.6 % | 1.5 % | 0.2 % | 1,537.8 % | 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 | -0.0002 ppm | 0.0013 ppm | 0.0016 ppm | 0.0044 ppm | 0.6198 ppm | 22.3577 ppm | 0.0528 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0009 ppm | 0.0018 ppm | 0.0047 ppm | 0.6169 ppm | 22.3212 ppm | 0.0541 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0015 ppm | 0.0015 ppm | 0.0044 ppm | 0.6198 ppm | 22.3736 ppm | 0.0521 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0014 ppm | 0.0015 ppm | 0.0041 ppm | 0.6227 ppm | 22.3784 ppm | 0.0522 ppm |
| Concentration RSD | 35.0 % | 24.3 % | 10.1 % | 6.1 % | 0.5 % | 0.1 % | 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 | 3.1640 ppm | 0.0816 ppm | 0.0140 ppm | 2,463.4962 [SIC 500] | 0.0116 ppm | -0.0004 ppm | 0.0038 ppm |
| Concentration per Run 1 | 3.1803 ppm | 0.0815 ppm | 0.0146 ppm | 2,477.5331 ppm | 0.0112 ppm | 0.0003 ppm | 0.0031 ppm |
| Concentration per Run 2 | 3.1719 ppm | 0.0818 ppm | 0.0130 ppm | 2,468.4219 ppm | 0.0122 ppm | 0.0005 ppm | 0.0037 ppm |
| Concentration per Run 3 | 3.1398 ppm | 0.0816 ppm | 0.0143 ppm | 2,444.5336 ppm | 0.0115 ppm | -0.0021 ppm | 0.0045 ppm |
| Concentration RSD | 0.7 % | 0.2 % | 6.1 % | 0.7 % | 4.4 % | 365.0 % | 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 | -0.0016 ppm | 2.1690 ppm | -0.0002 ppm | 0.2189 ppm | -0.0001 ppm | -0.0006 ppm | 0.0002 ppm |
| Concentration per Run 1 | -0.0024 ppm | 2.1896 ppm | 0.0002 ppm | 0.2186 ppm | -0.0001 ppm | -0.0003 ppm | 0.0003 ppm |
| Concentration per Run 2 | -0.0018 ppm | 2.1697 ppm | 0.0006 ppm | 0.2197 ppm | -0.0001 ppm | -0.0016 ppm | 0.0002 ppm |
| Concentration per Run 3 | -0.0005 ppm | 2.1478 ppm | -0.0015 ppm | 0.2184 ppm | -0.0001 ppm | 0.0002 ppm | 0.0002 ppm |
| Concentration RSD | 64.1 % | 1.0 % | 482.0 % | 0.3 % | 36.5 % | 163.7 % | 21.0 % |

| | 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 | 0.0089 ppm | 65.4209 % | 82.9914 % | 57.2448 % | 64.8943 % | 83.4254 % | 69.4596 % |
| Concentration per Run 1 | 0.0092 ppm | 64.8536 % | 82.8603 % | 57.1652 % | 64.8334 % | 83.4158 % | 69.5025 % |
| Concentration per Run 2 | 0.0087 ppm | 65.4990 % | 82.9648 % | 57.4601 % | 64.9021 % | 83.2986 % | 69.6211 % |
| Concentration per Run 3 | 0.0088 ppm | 65.9101 % | 83.1492 % | 57.1092 % | 64.9474 % | 83.5617 % | 69.2552 % |
| Concentration RSD | 3.3 % | 0.8 % | 0.2 % | 0.3 % | 0.1 % | 0.2 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474004-03d2 WG2012740
Analysis started at: 12/24/2024 12:08:25 AM
Rack 3
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 | -0.0001 ppm | 0.0257 ppm | -0.0014 ppm | 0.0953 ppm | 0.0492 ppm | 0.0000 ppm | 10.7428 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0252 ppm | 0.0011 ppm | 0.0959 ppm | 0.0492 ppm | 0.0000 ppm | 10.6990 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0247 ppm | -0.0029 ppm | 0.0952 ppm | 0.0492 ppm | 0.0000 ppm | 10.8010 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0272 ppm | -0.0022 ppm | 0.0948 ppm | 0.0493 ppm | 0.0000 ppm | 10.7283 ppm |
| Concentration RSD | 191.9 % | 5.2 % | 161.0 % | 0.6 % | 0.1 % | 1,040.5 % | 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 | -0.0001 ppm | 0.0013 ppm | 0.0016 ppm | 0.0043 ppm | 0.8077 ppm | 25.0868 ppm | 0.0523 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0010 ppm | 0.0017 ppm | 0.0045 ppm | 0.8010 ppm | 24.9854 ppm | 0.0528 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0019 ppm | 0.0015 ppm | 0.0041 ppm | 0.8155 ppm | 25.1392 ppm | 0.0517 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0011 ppm | 0.0016 ppm | 0.0044 ppm | 0.8066 ppm | 25.1359 ppm | 0.0524 ppm |
| Concentration RSD | 78.9 % | 36.4 % | 8.6 % | 4.1 % | 0.9 % | 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 | 2.9652 ppm | 0.0811 ppm | 0.0081 ppm | 2,449.3459 [SIC 500] | 0.0097 ppm | -0.0005 ppm | 0.0019 ppm |
| Concentration per Run 1 | 2.9860 ppm | 0.0808 ppm | 0.0084 ppm | 2,406.1761 ppm | 0.0100 ppm | -0.0002 ppm | 0.0024 ppm |
| Concentration per Run 2 | 2.9597 ppm | 0.0817 ppm | 0.0079 ppm | 2,472.8775 ppm | 0.0103 ppm | -0.0009 ppm | 0.0013 ppm |
| Concentration per Run 3 | 2.9500 ppm | 0.0808 ppm | 0.0080 ppm | 2,468.9842 ppm | 0.0089 ppm | -0.0003 ppm | 0.0019 ppm |
| Concentration RSD | 0.6 % | 0.6 % | 3.1 % | 1.5 % | 7.4 % | 79.0 % | 27.4 % |

| | 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 | 1.8038 ppm | 0.0006 ppm | 0.1335 ppm | -0.0003 ppm | -0.0006 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0022 ppm | 1.8186 ppm | 0.0006 ppm | 0.1332 ppm | -0.0002 ppm | -0.0004 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0020 ppm | 1.8006 ppm | 0.0005 ppm | 0.1337 ppm | -0.0005 ppm | 0.0002 ppm | 0.0002 ppm |
| Concentration per Run 3 | -0.0007 ppm | 1.7922 ppm | 0.0008 ppm | 0.1336 ppm | -0.0003 ppm | -0.0017 ppm | 0.0001 ppm |
| Concentration RSD | 51.8 % | 0.7 % | 22.0 % | 0.2 % | 42.5 % | 154.1 % | 52.6 % |

| | 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 | 0.0113 ppm | 64.8251 % | 82.4572 % | 56.6098 % | 63.6693 % | 82.3466 % | 68.3266 % |
| Concentration per Run 1 | 0.0115 ppm | 64.6041 % | 82.7800 % | 56.4062 % | 64.1585 % | 82.5404 % | 68.4007 % |
| Concentration per Run 2 | 0.0115 ppm | 64.8503 % | 82.0385 % | 56.6299 % | 63.6101 % | 82.2740 % | 68.3515 % |
| Concentration per Run 3 | 0.0110 ppm | 65.0208 % | 82.5529 % | 56.7934 % | 63.2394 % | 82.2255 % | 68.2277 % |
| Concentration RSD | 2.5 % | 0.3 % | 0.5 % | 0.3 % | 0.7 % | 0.2 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474004-04d2 WG2012740
Analysis started at: 12/24/2024 12:12:54 AM
Rack 3
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 | 0.0145 ppm | 0.0002 ppm | 0.1406 ppm | 0.0618 ppm | 0.0000 ppm | 24.3938 ppm |
| Concentration per Run 1 | 0.0003 ppm | 0.0164 ppm | 0.0004 ppm | 0.1419 ppm | 0.0618 ppm | 0.0000 ppm | 24.4808 ppm |
| Concentration per Run 2 | 0.0003 ppm | 0.0128 ppm | 0.0005 ppm | 0.1406 ppm | 0.0617 ppm | 0.0000 ppm | 24.4637 ppm |
| Concentration per Run 3 | -0.0004 ppm | 0.0144 ppm | -0.0003 ppm | 0.1393 ppm | 0.0617 ppm | 0.0000 ppm | 24.2368 ppm |
| Concentration RSD | 666.2 % | 12.4 % | 186.5 % | 0.9 % | 0.1 % | 56,167.9 % | 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 | -0.0003 ppm | 0.0047 ppm | 0.0016 ppm | 0.0053 ppm | 1.7006 ppm | 31.1614 ppm | 0.0461 ppm |
| Concentration per Run 1 | -0.0003 ppm | 0.0044 ppm | 0.0017 ppm | 0.0053 ppm | 1.7020 ppm | 31.0334 ppm | 0.0468 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.0048 ppm | 0.0015 ppm | 0.0053 ppm | 1.6974 ppm | 31.2358 ppm | 0.0458 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0049 ppm | 0.0016 ppm | 0.0054 ppm | 1.7022 ppm | 31.2149 ppm | 0.0456 ppm |
| Concentration RSD | 5.7 % | 4.9 % | 5.7 % | 1.4 % | 0.2 % | 0.4 % | 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 | 5.7568 ppm | 0.1165 ppm | 0.0067 ppm | 2,395.7256 [SIC 500] | 0.0270 ppm | 0.0000 ppm | 0.0037 ppm |
| Concentration per Run 1 | 5.8032 ppm | 0.1169 ppm | 0.0068 ppm | 2,371.4309 ppm | 0.0277 ppm | -0.0009 ppm | 0.0053 ppm |
| Concentration per Run 2 | 5.7661 ppm | 0.1163 ppm | 0.0068 ppm | 2,386.4137 ppm | 0.0263 ppm | 0.0009 ppm | 0.0019 ppm |
| Concentration per Run 3 | 5.7012 ppm | 0.1161 ppm | 0.0066 ppm | 2,429.3322 ppm | 0.0271 ppm | 0.0001 ppm | 0.0041 ppm |
| Concentration RSD | 0.9 % | 0.4 % | 1.8 % | 1.3 % | 2.6 % | 3,859.2 % | 46.6 % |

| | 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 | -0.0015 ppm | 1.4913 ppm | -0.0006 ppm | 0.2312 ppm | -0.0002 ppm | -0.0005 ppm | 0.0004 ppm |
| Concentration per Run 1 | -0.0012 ppm | 1.5107 ppm | -0.0012 ppm | 0.2305 ppm | 0.0001 ppm | 0.0002 ppm | 0.0003 ppm |
| Concentration per Run 2 | -0.0007 ppm | 1.4884 ppm | 0.0002 ppm | 0.2324 ppm | -0.0003 ppm | -0.0013 ppm | 0.0006 ppm |
| Concentration per Run 3 | -0.0025 ppm | 1.4749 ppm | -0.0007 ppm | 0.2306 ppm | -0.0005 ppm | -0.0003 ppm | 0.0003 ppm |
| Concentration RSD | 64.2 % | 1.2 % | 123.8 % | 0.5 % | 123.0 % | 160.4 % | 42.4 % |

| | 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 | 0.0265 ppm | 65.9653 % | 83.4725 % | 57.7780 % | 65.4044 % | 83.8861 % | 70.2020 % |
| Concentration per Run 1 | 0.0270 ppm | 65.1356 % | 83.1047 % | 57.6441 % | 64.9682 % | 83.9241 % | 70.3754 % |
| Concentration per Run 2 | 0.0264 ppm | 66.0226 % | 83.3544 % | 57.8314 % | 65.4937 % | 83.5762 % | 70.0551 % |
| Concentration per Run 3 | 0.0261 ppm | 66.7376 % | 83.9585 % | 57.8584 % | 65.7512 % | 84.1578 % | 70.1756 % |
| Concentration RSD | 1.7 % | 1.2 % | 0.5 % | 0.2 % | 0.6 % | 0.3 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474004-05d2 WG2012740
Analysis started at: 12/24/2024 12:17:23 AM
Rack 3
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 | 0.0001 ppm | 0.0113 ppm | 0.0002 ppm | 0.0968 ppm | 0.0502 ppm | 0.0000 ppm | 22.9353 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.0116 ppm | 0.0008 ppm | 0.0968 ppm | 0.0498 ppm | 0.0000 ppm | 22.9071 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0139 ppm | -0.0009 ppm | 0.0968 ppm | 0.0502 ppm | 0.0000 ppm | 23.0562 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0082 ppm | 0.0008 ppm | 0.0966 ppm | 0.0505 ppm | 0.0000 ppm | 22.8427 ppm |
| Concentration RSD | 74.7 % | 25.7 % | 516.4 % | 0.1 % | 0.6 % | 144.6 % | 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 | -0.0003 ppm | 0.0052 ppm | 0.0034 ppm | 0.0053 ppm | 2.5018 ppm | 19.2370 ppm | 0.0369 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0051 ppm | 0.0036 ppm | 0.0051 ppm | 2.4926 ppm | 19.1750 ppm | 0.0366 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.0054 ppm | 0.0033 ppm | 0.0055 ppm | 2.5156 ppm | 19.2305 ppm | 0.0368 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0051 ppm | 0.0034 ppm | 0.0053 ppm | 2.4972 ppm | 19.3057 ppm | 0.0372 ppm |
| Concentration RSD | 13.4 % | 3.4 % | 4.2 % | 4.1 % | 0.5 % | 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 | 4.9326 ppm | 0.1164 ppm | 0.0074 ppm | 2,369.6849 [SIC 500] | 0.0226 ppm | -0.0004 ppm | -0.0014 ppm |
| Concentration per Run 1 | 4.9901 ppm | 0.1162 ppm | 0.0075 ppm | 2,387.9924 ppm | 0.0233 ppm | -0.0008 ppm | -0.0046 ppm |
| Concentration per Run 2 | 4.8900 ppm | 0.1170 ppm | 0.0074 ppm | 2,383.2916 ppm | 0.0220 ppm | -0.0003 ppm | 0.0000 ppm |
| Concentration per Run 3 | 4.9175 ppm | 0.1160 ppm | 0.0074 ppm | 2,337.7706 ppm | 0.0224 ppm | -0.0001 ppm | 0.0006 ppm |
| Concentration RSD | 1.0 % | 0.4 % | 0.8 % | 1.2 % | 2.8 % | 95.2 % | 211.4 % |

| | 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 | 0.0004 ppm | 1.0274 ppm | 0.0001 ppm | 0.1956 ppm | -0.0003 ppm | -0.0005 ppm | 0.0019 ppm |
| Concentration per Run 1 | 0.0000 ppm | 1.0361 ppm | 0.0000 ppm | 0.1953 ppm | -0.0003 ppm | -0.0006 ppm | 0.0018 ppm |
| Concentration per Run 2 | 0.0008 ppm | 1.0231 ppm | 0.0001 ppm | 0.1953 ppm | -0.0001 ppm | -0.0009 ppm | 0.0021 ppm |
| Concentration per Run 3 | 0.0004 ppm | 1.0231 ppm | 0.0002 ppm | 0.1962 ppm | -0.0003 ppm | -0.0001 ppm | 0.0017 ppm |
| Concentration RSD | 96.7 % | 0.7 % | 126.4 % | 0.3 % | 56.6 % | 83.9 % | 9.3 % |

| | 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 | 0.0426 ppm | 67.2314 % | 83.3988 % | 58.9819 % | 68.8099 % | 87.0542 % | 74.1659 % |
| Concentration per Run 1 | 0.0431 ppm | 66.5171 % | 83.7955 % | 58.6943 % | 68.7922 % | 87.7262 % | 74.2365 % |
| Concentration per Run 2 | 0.0427 ppm | 67.5091 % | 83.1273 % | 59.2192 % | 69.0489 % | 86.8124 % | 74.3268 % |
| Concentration per Run 3 | 0.0420 ppm | 67.6680 % | 83.2736 % | 59.0323 % | 68.5885 % | 86.6240 % | 73.9345 % |
| Concentration RSD | 1.4 % | 0.9 % | 0.4 % | 0.5 % | 0.3 % | 0.7 % | 0.3 % |

# iCAP Pro Trace 8 Data report
12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474004-06d2 WG2012740
Analysis started at: 12/24/2024 12:21:52 AM
Rack 3
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 | 0.0001 ppm | 0.0181 ppm | -0.0005 ppm | 0.0518 ppm | 0.0564 ppm | 0.0000 ppm | 16.4579 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0169 ppm | -0.0003 ppm | 0.0529 ppm | 0.0567 ppm | 0.0000 ppm | 16.4959 ppm |
| Concentration per Run 2 | 0.0004 ppm | 0.0182 ppm | 0.0011 ppm | 0.0516 ppm | 0.0562 ppm | 0.0000 ppm | 16.4065 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0193 ppm | -0.0023 ppm | 0.0510 ppm | 0.0562 ppm | 0.0000 ppm | 16.4712 ppm |
| Concentration RSD | 223.4 % | 6.7 % | 337.6 % | 1.9 % | 0.4 % | 139.3 % | 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 | -0.0001 ppm | 0.0012 ppm | 0.0035 ppm | 0.0096 ppm | 1.9075 ppm | 19.2695 ppm | 0.0616 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0014 ppm | 0.0032 ppm | 0.0099 ppm | 1.9065 ppm | 19.3008 ppm | 0.0621 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0014 ppm | 0.0035 ppm | 0.0096 ppm | 1.9067 ppm | 19.2115 ppm | 0.0616 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0008 ppm | 0.0038 ppm | 0.0093 ppm | 1.9092 ppm | 19.2963 ppm | 0.0611 ppm |
| Concentration RSD | 80.3 % | 25.6 % | 9.1 % | 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 | 4.2609 ppm | 0.0861 ppm | 0.0049 ppm | 2,369.6807 [SIC 500] | 0.0063 ppm | 0.0000 ppm | -0.0005 ppm |
| Concentration per Run 1 | 4.2900 ppm | 0.0861 ppm | 0.0052 ppm | 2,354.1253 ppm | 0.0061 ppm | -0.0002 ppm | 0.0006 ppm |
| Concentration per Run 2 | 4.2572 ppm | 0.0860 ppm | 0.0048 ppm | 2,410.4006 ppm | 0.0063 ppm | 0.0012 ppm | 0.0002 ppm |
| Concentration per Run 3 | 4.2356 ppm | 0.0861 ppm | 0.0049 ppm | 2,344.5161 ppm | 0.0064 ppm | -0.0011 ppm | -0.0024 ppm |
| Concentration RSD | 0.6 % | 0.1 % | 4.3 % | 1.5 % | 3.1 % | 4,904.2 % | 312.2 % |

| | 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 | -0.0009 ppm | 0.7256 ppm | 0.0004 ppm | 0.1447 ppm | -0.0001 ppm | -0.0001 ppm | 0.0003 ppm |
| Concentration per Run 1 | -0.0023 ppm | 0.7292 ppm | 0.0000 ppm | 0.1452 ppm | 0.0002 ppm | 0.0005 ppm | 0.0004 ppm |
| Concentration per Run 2 | 0.0005 ppm | 0.7262 ppm | 0.0013 ppm | 0.1447 ppm | -0.0003 ppm | -0.0001 ppm | 0.0003 ppm |
| Concentration per Run 3 | -0.0008 ppm | 0.7213 ppm | 0.0000 ppm | 0.1442 ppm | -0.0001 ppm | -0.0005 ppm | 0.0004 ppm |
| Concentration RSD | 166.8 % | 0.5 % | 176.2 % | 0.3 % | 312.6 % | 904.0 % | 23.0 % |

| | 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 | 0.0180 ppm | 61.8356 % | 80.8378 % | 53.2712 % | 60.5675 % | 80.4104 % | 64.4969 % |
| Concentration per Run 1 | 0.0175 ppm | 61.5763 % | 80.7692 % | 53.5128 % | 60.7893 % | 80.3780 % | 64.7304 % |
| Concentration per Run 2 | 0.0183 ppm | 61.6813 % | 80.7777 % | 52.9923 % | 60.4286 % | 80.2551 % | 64.2179 % |
| Concentration per Run 3 | 0.0181 ppm | 62.2492 % | 80.9666 % | 53.3086 % | 60.4846 % | 80.5981 % | 64.5424 % |
| Concentration RSD | 2.1 % | 0.6 % | 0.1 % | 0.5 % | 0.3 % | 0.2 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474004-07d2 WG2012740
Analysis started at: 12/24/2024 12:26:20 AM
Rack 3
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 | 0.0002 ppm | 0.0215 ppm | -0.0006 ppm | 0.0683 ppm | 0.0531 ppm | 0.0000 ppm | 12.3780 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0198 ppm | 0.0003 ppm | 0.0678 ppm | 0.0535 ppm | 0.0000 ppm | 12.3908 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0223 ppm | -0.0012 ppm | 0.0691 ppm | 0.0530 ppm | 0.0000 ppm | 12.3949 ppm |
| Concentration per Run 3 | 0.0005 ppm | 0.0223 ppm | -0.0008 ppm | 0.0679 ppm | 0.0527 ppm | 0.0000 ppm | 12.3483 ppm |
| Concentration RSD | 106.8 % | 6.9 % | 128.8 % | 1.0 % | 0.8 % | 197.6 % | 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 | -0.0002 ppm | 0.0008 ppm | 0.0031 ppm | 0.0121 ppm | 2.3315 ppm | 27.3579 ppm | 0.0963 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0012 ppm | 0.0031 ppm | 0.0120 ppm | 2.3390 ppm | 27.4489 ppm | 0.0974 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0007 ppm | 0.0029 ppm | 0.0119 ppm | 2.3265 ppm | 27.3630 ppm | 0.0953 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0004 ppm | 0.0032 ppm | 0.0123 ppm | 2.3291 ppm | 27.2618 ppm | 0.0963 ppm |
| Concentration RSD | 28.8 % | 53.7 % | 5.8 % | 1.5 % | 0.3 % | 0.3 % | 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 | 2.9375 ppm | 0.0654 ppm | 0.0041 ppm | 2,123.7286 [SIC 500] | 0.0064 ppm | 0.0000 ppm | 0.0006 ppm |
| Concentration per Run 1 | 2.9582 ppm | 0.0652 ppm | 0.0042 ppm | 2,209.0395 ppm | 0.0065 ppm | 0.0007 ppm | 0.0023 ppm |
| Concentration per Run 2 | 2.9325 ppm | 0.0657 ppm | 0.0042 ppm | 2,138.3657 ppm | 0.0061 ppm | -0.0003 ppm | -0.0004 ppm |
| Concentration per Run 3 | 2.9219 ppm | 0.0653 ppm | 0.0040 ppm | 2,023.7805 ppm | 0.0067 ppm | -0.0003 ppm | -0.0001 ppm |
| Concentration RSD | 0.6 % | 0.4 % | 2.7 % | 4.4 % | 5.2 % | 1,953.4 % | 251.4 % |

| | 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 | -0.0024 ppm | 0.6252 ppm | 0.0002 ppm | 0.1330 ppm | 0.0001 ppm | -0.0008 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0048 ppm | 0.6317 ppm | 0.0001 ppm | 0.1337 ppm | 0.0000 ppm | -0.0010 ppm | -0.0001 ppm |
| Concentration per Run 2 | -0.0016 ppm | 0.6220 ppm | 0.0005 ppm | 0.1328 ppm | 0.0001 ppm | -0.0008 ppm | 0.0003 ppm |
| Concentration per Run 3 | -0.0008 ppm | 0.6219 ppm | 0.0001 ppm | 0.1324 ppm | 0.0002 ppm | -0.0006 ppm | 0.0002 ppm |
| Concentration RSD | 89.8 % | 0.9 % | 103.1 % | 0.5 % | 100.8 % | 23.5 % | 141.1 % |

| | 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 | 0.0242 ppm | 58.2283 % | 77.5002 % | 49.2565 % | 55.7890 % | 76.3024 % | 59.3943 % |
| Concentration per Run 1 | 0.0245 ppm | 58.1590 % | 77.5521 % | 49.1967 % | 55.9094 % | 76.3448 % | 59.5814 % |
| Concentration per Run 2 | 0.0240 ppm | 58.1754 % | 77.2365 % | 49.5134 % | 55.5575 % | 76.0772 % | 59.5917 % |
| Concentration per Run 3 | 0.0241 ppm | 58.3505 % | 77.7119 % | 49.0594 % | 55.9001 % | 76.4850 % | 59.0098 % |
| Concentration RSD | 1.0 % | 0.2 % | 0.3 % | 0.5 % | 0.4 % | 0.3 % | 0.6 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474004-08d2 WG2012740
Analysis started at: 12/24/2024 12:30:49 AM
Rack 3
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 | 0.0234 ppm | -0.0003 ppm | 0.0399 ppm | 0.0258 ppm | 0.0000 ppm | 13.2862 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0238 ppm | -0.0005 ppm | 0.0409 ppm | 0.0258 ppm | 0.0000 ppm | 13.2978 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.0191 ppm | -0.0010 ppm | 0.0403 ppm | 0.0257 ppm | 0.0000 ppm | 13.2524 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0273 ppm | 0.0008 ppm | 0.0385 ppm | 0.0258 ppm | 0.0000 ppm | 13.3084 ppm |
| Concentration RSD | 1,467.6 % | 17.7 % | 372.8 % | 3.2 % | 0.2 % | 268.8 % | 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 | -0.0001 ppm | 0.0007 ppm | 0.0025 ppm | 0.0100 ppm | 1.1543 ppm | 19.2670 ppm | 0.0516 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0012 ppm | 0.0025 ppm | 0.0102 ppm | 1.1598 ppm | 19.2176 ppm | 0.0525 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0001 ppm | 0.0023 ppm | 0.0100 ppm | 1.1478 ppm | 19.3056 ppm | 0.0508 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0007 ppm | 0.0027 ppm | 0.0099 ppm | 1.1553 ppm | 19.2777 ppm | 0.0516 ppm |
| Concentration RSD | 89.3 % | 81.7 % | 8.2 % | 1.3 % | 0.5 % | 0.2 % | 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 | 3.1787 ppm | 0.0305 ppm | 0.0084 ppm | 2,242.2904 [SIC 500] | 0.0039 ppm | -0.0005 ppm | -0.0004 ppm |
| Concentration per Run 1 | 3.1834 ppm | 0.0305 ppm | 0.0086 ppm | 2,178.0660 ppm | 0.0046 ppm | -0.0007 ppm | -0.0015 ppm |
| Concentration per Run 2 | 3.2003 ppm | 0.0306 ppm | 0.0085 ppm | 2,264.6254 ppm | 0.0036 ppm | -0.0019 ppm | -0.0009 ppm |
| Concentration per Run 3 | 3.1523 ppm | 0.0306 ppm | 0.0081 ppm | 2,284.1798 ppm | 0.0035 ppm | 0.0010 ppm | 0.0013 ppm |
| Concentration RSD | 0.8 % | 0.2 % | 3.6 % | 2.5 % | 16.0 % | 277.2 % | 401.2 % |

| | 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 | -0.0021 ppm | 0.5084 ppm | -0.0001 ppm | 0.0935 ppm | 0.0001 ppm | -0.0008 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0013 ppm | 0.5140 ppm | -0.0004 ppm | 0.0934 ppm | 0.0003 ppm | -0.0005 ppm | 0.0000 ppm |
| Concentration per Run 2 | -0.0014 ppm | 0.5057 ppm | -0.0010 ppm | 0.0937 ppm | 0.0001 ppm | -0.0007 ppm | 0.0000 ppm |
| Concentration per Run 3 | -0.0036 ppm | 0.5055 ppm | 0.0010 ppm | 0.0935 ppm | -0.0001 ppm | -0.0012 ppm | 0.0003 ppm |
| Concentration RSD | 61.1 % | 1.0 % | 742.2 % | 0.1 % | 256.6 % | 47.2 % | 222.1 % |

| | 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 | 0.0171 ppm | 61.9715 % | 80.6197 % | 53.6128 % | 60.9001 % | 80.1611 % | 65.0766 % |
| Concentration per Run 1 | 0.0171 ppm | 61.7842 % | 80.7420 % | 53.8041 % | 61.0450 % | 80.5512 % | 65.6595 % |
| Concentration per Run 2 | 0.0170 ppm | 61.7827 % | 80.7326 % | 53.4356 % | 60.7003 % | 80.2757 % | 64.8587 % |
| Concentration per Run 3 | 0.0172 ppm | 62.3475 % | 80.3845 % | 53.5987 % | 60.9551 % | 79.6564 % | 64.7116 % |
| Concentration RSD | 0.4 % | 0.5 % | 0.3 % | 0.3 % | 0.3 % | 0.6 % | 0.8 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474004-09d2 WG2012740
Analysis started at: 12/24/2024 12:35:19 AM
Rack 3
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 | -0.0001 ppm | 0.0155 ppm | -0.0008 ppm | 0.0139 ppm | 0.0096 ppm | 0.0000 ppm | 21.9193 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0172 ppm | -0.0005 ppm | 0.0149 ppm | 0.0097 ppm | 0.0000 ppm | 21.8801 ppm |
| Concentration per Run 2 | 0.0000 ppm | 0.0157 ppm | 0.0004 ppm | 0.0133 ppm | 0.0096 ppm | 0.0000 ppm | 21.9163 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0137 ppm | -0.0024 ppm | 0.0136 ppm | 0.0096 ppm | 0.0000 ppm | 21.9616 ppm |
| Concentration RSD | 80.6 % | 11.4 % | 177.6 % | 6.1 % | 0.5 % | 29,825.3 % | 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 | -0.0002 ppm | 0.0003 ppm | 0.0012 ppm | 0.0052 ppm | 0.2042 ppm | 6.7045 ppm | 0.0118 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0003 ppm | 0.0013 ppm | 0.0052 ppm | 0.2050 ppm | 6.6939 ppm | 0.0116 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.0002 ppm | 0.0013 ppm | 0.0054 ppm | 0.2044 ppm | 6.6658 ppm | 0.0119 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0004 ppm | 0.0011 ppm | 0.0051 ppm | 0.2031 ppm | 6.7537 ppm | 0.0118 ppm |
| Concentration RSD | 21.3 % | 36.5 % | 11.1 % | 2.5 % | 0.5 % | 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 | 5.2171 ppm | 0.0140 ppm | 0.0029 ppm | 1,324.0994 [SIC 500] | 0.0020 ppm | -0.0006 ppm | -0.0001 ppm |
| Concentration per Run 1 | 5.2739 ppm | 0.0138 ppm | 0.0024 ppm | 1,314.4964 ppm | 0.0017 ppm | -0.0006 ppm | -0.0010 ppm |
| Concentration per Run 2 | 5.1984 ppm | 0.0141 ppm | 0.0032 ppm | 1,322.9980 ppm | 0.0015 ppm | 0.0001 ppm | 0.0017 ppm |
| Concentration per Run 3 | 5.1790 ppm | 0.0140 ppm | 0.0031 ppm | 1,334.8037 ppm | 0.0030 ppm | -0.0013 ppm | -0.0010 ppm |
| Concentration RSD | 1.0 % | 1.2 % | 14.7 % | 0.8 % | 39.6 % | 119.2 % | 1,866.9 % |

| | 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 | -0.0019 ppm | 0.3413 ppm | 0.0002 ppm | 0.1167 ppm | -0.0003 ppm | -0.0003 ppm | 0.0002 ppm |
| Concentration per Run 1 | -0.0021 ppm | 0.3435 ppm | 0.0002 ppm | 0.1162 ppm | -0.0003 ppm | 0.0004 ppm | 0.0003 ppm |
| Concentration per Run 2 | -0.0022 ppm | 0.3419 ppm | 0.0010 ppm | 0.1166 ppm | -0.0003 ppm | -0.0003 ppm | 0.0003 ppm |
| Concentration per Run 3 | -0.0015 ppm | 0.3384 ppm | -0.0006 ppm | 0.1171 ppm | -0.0003 ppm | -0.0010 ppm | 0.0000 ppm |
| Concentration RSD | 18.7 % | 0.8 % | 394.5 % | 0.4 % | 12.2 % | 237.1 % | 97.9 % |

| | 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 | 0.0084 ppm | 74.6140 % | 89.7840 % | 65.7712 % | 73.4560 % | 89.2686 % | 77.6292 % |
| Concentration per Run 1 | 0.0087 ppm | 73.9230 % | 89.7166 % | 65.0878 % | 73.4892 % | 89.0810 % | 77.2501 % |
| Concentration per Run 2 | 0.0084 ppm | 74.7056 % | 89.6096 % | 66.1171 % | 73.4161 % | 89.0259 % | 77.8614 % |
| Concentration per Run 3 | 0.0081 ppm | 75.2134 % | 90.0259 % | 66.1087 % | 73.4625 % | 89.6990 % | 77.7761 % |
| Concentration RSD | 3.7 % | 0.9 % | 0.2 % | 0.9 % | 0.1 % | 0.4 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474004-10d2 WG2012740
Analysis started at: 12/24/2024 12:39:48 AM
Rack 3
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 | 0.0000 ppm | 0.0170 ppm | 0.0003 ppm | 0.0658 ppm | 0.0307 ppm | 0.0000 ppm | 31.4002 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.0113 ppm | -0.0031 ppm | 0.0663 ppm | 0.0312 ppm | -0.0001 ppm | 32.7785 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.0168 ppm | 0.0018 ppm | 0.0654 ppm | 0.0303 ppm | 0.0000 ppm | 30.6241 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0230 ppm | 0.0021 ppm | 0.0655 ppm | 0.0305 ppm | 0.0000 ppm | 30.7982 ppm |
| Concentration RSD | 787.9 % | 34.2 % | 1,085.3 % | 0.7 % | 1.5 % | 142.4 % | 3.8 % |

| | 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 | -0.0003 ppm | 0.0001 ppm | 0.0013 ppm | 0.0067 ppm | 0.5892 ppm | 27.4634 ppm | 0.0985 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0001 ppm | 0.0012 ppm | 0.0068 ppm | 0.6062 ppm | 27.7310 ppm | 0.0993 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0001 ppm | 0.0012 ppm | 0.0070 ppm | 0.5771 ppm | 27.2692 ppm | 0.0977 ppm |
| Concentration per Run 3 | -0.0004 ppm | 0.0002 ppm | 0.0015 ppm | 0.0065 ppm | 0.5842 ppm | 27.3899 ppm | 0.0987 ppm |
| Concentration RSD | 47.8 % | 31.4 % | 13.2 % | 3.9 % | 2.6 % | 0.9 % | 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 | 3.6210 ppm | 0.0356 ppm | 0.0028 ppm | 2,277.1115 [SIC 500] | 0.0041 ppm | 0.0004 ppm | 0.0013 ppm |
| Concentration per Run 1 | 3.6355 ppm | 0.0370 ppm | 0.0026 ppm | 2,451.8054 ppm | 0.0042 ppm | 0.0008 ppm | -0.0015 ppm |
| Concentration per Run 2 | 3.6092 ppm | 0.0348 ppm | 0.0029 ppm | 2,194.2014 ppm | 0.0048 ppm | 0.0011 ppm | 0.0042 ppm |
| Concentration per Run 3 | 3.6184 ppm | 0.0349 ppm | 0.0027 ppm | 2,185.3278 ppm | 0.0034 ppm | -0.0007 ppm | 0.0010 ppm |
| Concentration RSD | 0.4 % | 3.4 % | 6.0 % | 6.6 % | 17.0 % | 240.9 % | 228.1 % |

| | 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 | -0.0019 ppm | 0.7480 ppm | 0.0005 ppm | 0.4062 ppm | 0.0010 ppm | 0.0005 ppm | 0.0004 ppm |
| Concentration per Run 1 | -0.0011 ppm | 0.7525 ppm | 0.0011 ppm | 0.4133 ppm | 0.0008 ppm | -0.0011 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0026 ppm | 0.7446 ppm | 0.0001 ppm | 0.4031 ppm | 0.0011 ppm | 0.0018 ppm | 0.0005 ppm |
| Concentration per Run 3 | -0.0019 ppm | 0.7471 ppm | 0.0003 ppm | 0.4023 ppm | 0.0010 ppm | 0.0009 ppm | 0.0005 ppm |
| Concentration RSD | 39.6 % | 0.5 % | 100.3 % | 1.5 % | 15.3 % | 275.1 % | 57.0 % |

| | 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 | 0.0108 ppm | 58.7108 % | 76.5069 % | 49.9741 % | 58.0672 % | 76.2374 % | 61.0707 % |
| Concentration per Run 1 | 0.0107 ppm | 58.2430 % | 73.7085 % | 50.1865 % | 58.1110 % | 73.3927 % | 61.6793 % |
| Concentration per Run 2 | 0.0109 ppm | 58.9792 % | 78.1933 % | 49.9802 % | 58.5265 % | 77.9800 % | 60.8494 % |
| Concentration per Run 3 | 0.0110 ppm | 58.9103 % | 77.6189 % | 49.7558 % | 57.5643 % | 77.3395 % | 60.6833 % |
| Concentration RSD | 1.4 % | 0.7 % | 3.2 % | 0.4 % | 0.8 % | 3.3 % | 0.9 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/24/2024 12:44:17 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 | 0.4811 ppm | 0.4896 ppm | 0.4540 ppm | 0.4480 ppm | 0.5071 ppm | 0.4938 ppm | 0.4881 ppm |
| Concentration per Run 1 | 0.4844 ppm | 0.4905 ppm | 0.4511 ppm | 0.4516 ppm | 0.5094 ppm | 0.4946 ppm | 0.4910 ppm |
| Concentration per Run 2 | 0.4810 ppm | 0.4868 ppm | 0.4574 ppm | 0.4496 ppm | 0.5011 ppm | 0.4939 ppm | 0.4871 ppm |
| Concentration per Run 3 | 0.4779 ppm | 0.4916 ppm | 0.4534 ppm | 0.4428 ppm | 0.5108 ppm | 0.4929 ppm | 0.4861 ppm |
| Recovery Percentage 1 | 96.222 % | 97.928 % | 90.792 % | 89.599 % | 101.419 % | 98.759 % | 97.612 % |
| Concentration RSD | 0.7 % | 0.5 % | 0.7 % | 1.0 % | 1.0 % | 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 | 0.4793 ppm | 0.4982 ppm | 0.4836 ppm | 0.4779 ppm | 0.4909 ppm | 5.5617 ppm | 0.5175 ppm |
| Concentration per Run 1 | 0.4839 ppm | 0.5026 ppm | 0.4890 ppm | 0.4806 ppm | 0.4919 ppm | 5.5691 ppm | 0.5246 ppm |
| Concentration per Run 2 | 0.4751 ppm | 0.4959 ppm | 0.4815 ppm | 0.4798 ppm | 0.4914 ppm | 5.5092 ppm | 0.5064 ppm |
| Concentration per Run 3 | 0.4791 ppm | 0.4960 ppm | 0.4802 ppm | 0.4734 ppm | 0.4893 ppm | 5.6067 ppm | 0.5216 ppm |
| Recovery Percentage 1 | 95.870 % | 99.637 % | 96.714 % | 95.585 % | 98.176 % | 111.233 % | 103.508 % |
| Concentration RSD | 0.9 % | 0.8 % | 1.0 % | 0.8 % | 0.3 % | 0.9 % | 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 | 0.4783 ppm | 0.4815 ppm | 0.4765 ppm | 13.6164 ppm | 0.4932 ppm | 0.4899 ppm | 0.4791 ppm |
| Concentration per Run 1 | 0.4817 ppm | 0.4817 ppm | 0.4773 ppm | 13.6978 ppm | 0.4991 ppm | 0.4894 ppm | 0.4868 ppm |
| Concentration per Run 2 | 0.4770 ppm | 0.4828 ppm | 0.4737 ppm | 13.5236 ppm | 0.4916 ppm | 0.4904 ppm | 0.4722 ppm |
| Concentration per Run 3 | 0.4764 ppm | 0.4799 ppm | 0.4784 ppm | 13.6277 ppm | 0.4888 ppm | 0.4899 ppm | 0.4785 ppm |
| Recovery Percentage 1 | 95.670 % | 96.301 % | 95.296 % | 136.164 % | 98.637 % | 97.986 % | 95.828 % |
| Concentration RSD | 0.6 % | 0.3 % | 0.5 % | 0.6 % | 1.1 % | 0.1 % | 1.5 % |

| | 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 | 0.4672 ppm | 5.1256 ppm | 0.4978 ppm | 0.5354 ppm | 0.4850 ppm | 0.4833 ppm | 0.4979 ppm |
| Concentration per Run 1 | 0.4654 ppm | 5.1647 ppm | 0.5026 ppm | 0.5369 ppm | 0.4888 ppm | 0.4792 ppm | 0.5003 ppm |
| Concentration per Run 2 | 0.4683 ppm | 5.1322 ppm | 0.4935 ppm | 0.5316 ppm | 0.4852 ppm | 0.4870 ppm | 0.4960 ppm |
| Concentration per Run 3 | 0.4679 ppm | 5.0800 ppm | 0.4973 ppm | 0.5377 ppm | 0.4811 ppm | 0.4836 ppm | 0.4975 ppm |
| Recovery Percentage 1 | 93.438 % | 97.631 % | 99.567 % | 107.078 % | 97.009 % | 96.655 % | 99.583 % |
| Concentration RSD | 0.3 % | 0.8 % | 0.9 % | 0.6 % | 0.8 % | 0.8 % | 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 | 0.4790 ppm | 96.3807 % | 97.1196 % | 90.0535 % | 92.3868 % | 95.7312 % | 92.8280 % |
| Concentration per Run 1 | 0.4856 ppm | 95.6150 % | 96.7577 % | 89.9526 % | 91.9952 % | 95.1707 % | 92.6445 % |
| Concentration per Run 2 | 0.4737 ppm | 96.8726 % | 96.8511 % | 89.8772 % | 92.6349 % | 95.6405 % | 92.6304 % |
| Concentration per Run 3 | 0.4776 ppm | 96.6546 % | 97.7500 % | 90.3307 % | 92.5303 % | 96.3824 % | 93.2090 % |
| Recovery Percentage 1 | 95.796 % | | | | | | |
| Concentration RSD | 1.3 % | 0.7 % | 0.6 % | 0.3 % | 0.4 % | 0.6 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/24/2024 12:48:44 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 | -0.0004 ppm | -0.0006 ppm | 0.0010 ppm | 0.0001 ppm | 0.0000 ppm | 0.0012 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0003 ppm | -0.0006 ppm | 0.0007 ppm | 0.0001 ppm | 0.0000 ppm | 0.0011 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0048 ppm | -0.0012 ppm | 0.0012 ppm | 0.0001 ppm | 0.0000 ppm | 0.0008 ppm |
| Concentration per Run 3 | 0.0002 ppm | 0.0034 ppm | -0.0001 ppm | 0.0011 ppm | 0.0001 ppm | 0.0000 ppm | 0.0018 ppm |
| Recovery Percentage 1 | 1.095 % | -0.398 % | -12.800 % | 3.371 % | 1.044 % | 0.516 % | 1.211 % |
| Concentration RSD | 307.7 % | 1,038.0 % | 88.3 % | 27.7 % | 47.6 % | 67.2 % | 40.9 % |

| | 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 | 0.0000 ppm | -0.0004 ppm | 0.0017 ppm | 0.1288 ppm | -0.0003 ppm |
| Concentration per Run 1 | 0.0001 ppm | -0.0005 ppm | 0.0000 ppm | -0.0001 ppm | 0.0010 ppm | 0.1203 ppm | 0.0001 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0002 ppm | -0.0001 ppm | -0.0005 ppm | 0.0018 ppm | 0.1371 ppm | -0.0002 ppm |
| Concentration per Run 3 | 0.0000 ppm | -0.0003 ppm | 0.0001 ppm | -0.0004 ppm | 0.0024 ppm | 0.1289 ppm | -0.0008 ppm |
| Recovery Percentage 1 | 2.460 % | -1.823 % | 0.098 % | -3.521 % | 3.492 % | 5.151 % | -2.927 % |
| Concentration RSD | 68.9 % | 204.2 % | 1,281.4 % | 50.5 % | 40.4 % | 6.6 % | 161.5 % |

| | 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 | -0.0015 ppm | 0.0001 ppm | 0.0021 ppm | 2.7645 ppm | -0.0003 ppm | -0.0003 ppm | 0.0016 ppm |
| Concentration per Run 1 | -0.0008 ppm | 0.0001 ppm | 0.0021 ppm | 2.7692 ppm | -0.0004 ppm | -0.0004 ppm | 0.0015 ppm |
| Concentration per Run 2 | -0.0020 ppm | 0.0001 ppm | 0.0021 ppm | 2.7604 ppm | 0.0000 ppm | -0.0010 ppm | 0.0017 ppm |
| Concentration per Run 3 | -0.0018 ppm | 0.0001 ppm | 0.0020 ppm | 2.7639 ppm | -0.0005 ppm | 0.0004 ppm | 0.0017 ppm |
| Recovery Percentage 1 | -1.538 % | 0.861 % | 4.190 % | 138.224 % | -1.164 % | -3.353 % | 3.261 % |
| Concentration RSD | 39.5 % | 23.4 % | 2.4 % | 0.2 % | 85.3 % | 206.1 % | 6.6 % |

| | 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 | -0.0006 ppm | 0.0000 ppm | 0.0008 ppm | 0.0001 ppm | -0.0002 ppm | 0.0004 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0009 ppm | 0.0005 ppm | 0.0001 ppm | -0.0003 ppm | 0.0002 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0013 ppm | -0.0007 ppm | 0.0014 ppm | 0.0000 ppm | -0.0002 ppm | 0.0007 ppm | 0.0000 ppm |
| Concentration per Run 3 | -0.0003 ppm | -0.0003 ppm | 0.0006 ppm | 0.0001 ppm | -0.0003 ppm | 0.0005 ppm | 0.0002 ppm |
| Recovery Percentage 1 | -5.689 % | -0.007 % | 1.687 % | 0.924 % | -2.458 % | 2.226 % | 0.935 % |
| Concentration RSD | 119.8 % | 2,242.9 % | 60.2 % | 43.9 % | 28.2 % | 55.2 % | 96.1 % |

| | 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 | -0.0005 ppm | 94.4708 % | 96.6068 % | 91.8652 % | 94.7930 % | 97.3620 % | 95.1695 % |
| Concentration per Run 1 | -0.0004 ppm | 93.9549 % | 96.7765 % | 91.3875 % | 94.9294 % | 97.7804 % | 95.2994 % |
| Concentration per Run 2 | -0.0004 ppm | 94.3939 % | 96.7858 % | 91.8579 % | 94.6103 % | 97.2783 % | 95.0957 % |
| Concentration per Run 3 | -0.0006 ppm | 95.0636 % | 96.2582 % | 92.3502 % | 94.8394 % | 97.0273 % | 95.1133 % |
| Recovery Percentage 1 | -9.898 % | | | | | | |
| Concentration RSD | 24.1 % | 0.6 % | 0.3 % | 0.5 % | 0.2 % | 0.4 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474004-11d2 WG2012740
Analysis started at: 12/24/2024 12:53:12 AM
Rack 3
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 | -0.0001 ppm | 0.0147 ppm | 0.0002 ppm | 0.1880 ppm | 0.0488 ppm | 0.0000 ppm | 32.8293 ppm |
| Concentration per Run 1 | 0.0002 ppm | 0.0094 ppm | 0.0025 ppm | 0.1894 ppm | 0.0490 ppm | 0.0000 ppm | 32.5605 ppm |
| Concentration per Run 2 | -0.0004 ppm | 0.0181 ppm | -0.0012 ppm | 0.1868 ppm | 0.0489 ppm | 0.0000 ppm | 33.2388 ppm |
| Concentration per Run 3 | -0.0001 ppm | 0.0166 ppm | -0.0006 ppm | 0.1879 ppm | 0.0486 ppm | 0.0000 ppm | 32.6887 ppm |
| Concentration RSD | 355.3 % | 31.8 % | 834.4 % | 0.7 % | 0.5 % | 206.9 % | 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 | -0.0003 ppm | 0.0008 ppm | 0.0010 ppm | 0.0056 ppm | 1.1048 ppm | 41.1702 ppm | 0.1063 ppm |
| Concentration per Run 1 | -0.0003 ppm | 0.0007 ppm | 0.0012 ppm | 0.0057 ppm | 1.1016 ppm | 41.5327 ppm | 0.1066 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0009 ppm | 0.0007 ppm | 0.0054 ppm | 1.1133 ppm | 41.2001 ppm | 0.1064 ppm |
| Concentration per Run 3 | -0.0005 ppm | 0.0006 ppm | 0.0012 ppm | 0.0057 ppm | 1.0996 ppm | 40.7779 ppm | 0.1060 ppm |
| Concentration RSD | 44.8 % | 21.0 % | 30.2 % | 3.6 % | 0.7 % | 0.9 % | 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 | 2.4148 ppm | 0.0867 ppm | 0.0051 ppm | 2,388.1980 [SIC 500] | 0.0035 ppm | 0.0004 ppm | 0.0003 ppm |
| Concentration per Run 1 | 2.4533 ppm | 0.0864 ppm | 0.0048 ppm | 2,389.5530 ppm | 0.0029 ppm | 0.0012 ppm | -0.0004 ppm |
| Concentration per Run 2 | 2.4042 ppm | 0.0875 ppm | 0.0055 ppm | 2,388.0708 ppm | 0.0032 ppm | -0.0011 ppm | 0.0008 ppm |
| Concentration per Run 3 | 2.3869 ppm | 0.0863 ppm | 0.0049 ppm | 2,386.9701 ppm | 0.0043 ppm | 0.0012 ppm | 0.0006 ppm |
| Concentration RSD | 1.4 % | 0.8 % | 7.7 % | 0.1 % | 21.7 % | 302.5 % | 208.4 % |

| | 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 | -0.0010 ppm | 1.9961 ppm | -0.0004 ppm | 0.5406 ppm | -0.0001 ppm | -0.0002 ppm | 0.0002 ppm |
| Concentration per Run 1 | -0.0026 ppm | 2.0205 ppm | -0.0006 ppm | 0.5422 ppm | -0.0003 ppm | 0.0000 ppm | 0.0003 ppm |
| Concentration per Run 2 | 0.0012 ppm | 1.9930 ppm | -0.0002 ppm | 0.5414 ppm | -0.0001 ppm | 0.0005 ppm | 0.0000 ppm |
| Concentration per Run 3 | -0.0015 ppm | 1.9748 ppm | -0.0004 ppm | 0.5383 ppm | 0.0000 ppm | -0.0012 ppm | 0.0002 ppm |
| Concentration RSD | 198.3 % | 1.2 % | 43.0 % | 0.4 % | 133.2 % | 356.7 % | 75.1 % |

| | 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 | 0.0109 ppm | 58.0714 % | 77.1311 % | 50.2670 % | 57.7082 % | 77.1174 % | 61.5881 % |
| Concentration per Run 1 | 0.0112 ppm | 57.5841 % | 77.8911 % | 50.1231 % | 57.7819 % | 78.0262 % | 61.6967 % |
| Concentration per Run 2 | 0.0107 ppm | 58.1063 % | 76.4477 % | 50.2046 % | 57.9016 % | 76.3778 % | 61.5224 % |
| Concentration per Run 3 | 0.0108 ppm | 58.5237 % | 77.0546 % | 50.4732 % | 57.4410 % | 76.9481 % | 61.5452 % |
| Concentration RSD | 2.5 % | 0.8 % | 0.9 % | 0.4 % | 0.4 % | 1.1 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474004-12d2 WG2012740
Analysis started at: 12/24/2024 12:57:41 AM
Rack 3
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 | -0.0001 ppm | 0.0147 ppm | 0.0005 ppm | 0.1448 ppm | 0.0566 ppm | 0.0000 ppm | 33.9442 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0148 ppm | 0.0001 ppm | 0.1461 ppm | 0.0567 ppm | 0.0000 ppm | 33.9064 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0158 ppm | 0.0007 ppm | 0.1438 ppm | 0.0563 ppm | 0.0000 ppm | 34.2481 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0135 ppm | 0.0008 ppm | 0.1445 ppm | 0.0568 ppm | 0.0000 ppm | 33.6782 ppm |
| Concentration RSD | 77.5 % | 7.9 % | 78.0 % | 0.8 % | 0.5 % | 746.8 % | 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 | -0.0003 ppm | 0.0006 ppm | 0.0008 ppm | 0.0060 ppm | 1.1475 ppm | 22.8787 ppm | 0.0614 ppm |
| Concentration per Run 1 | -0.0003 ppm | 0.0011 ppm | 0.0008 ppm | 0.0058 ppm | 1.1467 ppm | 22.8238 ppm | 0.0619 ppm |
| Concentration per Run 2 | -0.0003 ppm | 0.0006 ppm | 0.0008 ppm | 0.0063 ppm | 1.1532 ppm | 22.8628 ppm | 0.0608 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0000 ppm | 0.0008 ppm | 0.0060 ppm | 1.1428 ppm | 22.9495 ppm | 0.0615 ppm |
| Concentration RSD | 18.0 % | 97.3 % | 5.5 % | 4.4 % | 0.5 % | 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 | 1.9704 ppm | 0.1143 ppm | 0.0067 ppm | 2,184.4700 [SIC 500] | 0.0028 ppm | -0.0003 ppm | 0.0012 ppm |
| Concentration per Run 1 | 1.9865 ppm | 0.1146 ppm | 0.0068 ppm | 2,183.0780 ppm | 0.0032 ppm | -0.0002 ppm | 0.0014 ppm |
| Concentration per Run 2 | 1.9770 ppm | 0.1151 ppm | 0.0065 ppm | 2,203.3231 ppm | 0.0022 ppm | -0.0009 ppm | 0.0025 ppm |
| Concentration per Run 3 | 1.9476 ppm | 0.1132 ppm | 0.0069 ppm | 2,167.0088 ppm | 0.0029 ppm | 0.0001 ppm | -0.0003 ppm |
| Concentration RSD | 1.0 % | 0.8 % | 3.2 % | 0.8 % | 18.4 % | 160.1 % | 118.7 % |

| | 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 | -0.0017 ppm | 2.0683 ppm | 0.0006 ppm | 0.5548 ppm | -0.0004 ppm | 0.0004 ppm | 0.0000 ppm |
| Concentration per Run 1 | -0.0012 ppm | 2.0863 ppm | 0.0004 ppm | 0.5548 ppm | -0.0003 ppm | -0.0003 ppm | 0.0002 ppm |
| Concentration per Run 2 | -0.0015 ppm | 2.0638 ppm | 0.0007 ppm | 0.5542 ppm | -0.0005 ppm | 0.0001 ppm | 0.0000 ppm |
| Concentration per Run 3 | -0.0024 ppm | 2.0547 ppm | 0.0006 ppm | 0.5555 ppm | -0.0004 ppm | 0.0013 ppm | -0.0001 ppm |
| Concentration RSD | 39.5 % | 0.8 % | 29.4 % | 0.1 % | 21.9 % | 211.5 % | 1,560.1 % |

| | 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 | 0.0143 ppm | 66.0506 % | 84.0105 % | 58.3036 % | 65.9384 % | 84.3710 % | 70.8104 % |
| Concentration per Run 1 | 0.0146 ppm | 65.5849 % | 83.9170 % | 57.6837 % | 66.2334 % | 84.1977 % | 70.4975 % |
| Concentration per Run 2 | 0.0144 ppm | 66.0390 % | 83.5514 % | 58.3555 % | 65.9068 % | 84.0958 % | 71.0614 % |
| Concentration per Run 3 | 0.0139 ppm | 66.5279 % | 84.5632 % | 58.8716 % | 65.6751 % | 84.8196 % | 70.8724 % |
| Concentration RSD | 2.3 % | 0.7 % | 0.6 % | 1.0 % | 0.4 % | 0.5 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474004-13d2 WG2012740
Analysis started at: 12/24/2024 1:02:10 AM
Rack 3
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 | 0.0000 ppm | 0.0078 ppm | -0.0011 ppm | 0.1211 ppm | 0.0958 ppm | 0.0000 ppm | 21.4567 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0093 ppm | -0.0022 ppm | 0.1223 ppm | 0.0976 ppm | 0.0000 ppm | 22.1170 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0028 ppm | 0.0002 ppm | 0.1208 ppm | 0.0951 ppm | 0.0000 ppm | 21.1241 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0114 ppm | -0.0013 ppm | 0.1201 ppm | 0.0947 ppm | 0.0000 ppm | 21.1291 ppm |
| Concentration RSD | 292.1 % | 57.7 % | 111.3 % | 0.9 % | 1.6 % | 772.9 % | 2.7 % |

| | 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 | -0.0003 ppm | 0.0009 ppm | 0.0007 ppm | 0.0052 ppm | 1.7205 ppm | 18.3004 ppm | 0.0540 ppm |
| Concentration per Run 1 | -0.0003 ppm | 0.0003 ppm | 0.0006 ppm | 0.0054 ppm | 1.7686 ppm | 18.6105 ppm | 0.0549 ppm |
| Concentration per Run 2 | -0.0002 ppm | 0.0015 ppm | 0.0011 ppm | 0.0051 ppm | 1.6976 ppm | 18.1304 ppm | 0.0532 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0009 ppm | 0.0004 ppm | 0.0051 ppm | 1.6952 ppm | 18.1601 ppm | 0.0538 ppm |
| Concentration RSD | 19.2 % | 66.8 % | 53.9 % | 3.3 % | 2.4 % | 1.5 % | 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 | 1.7191 ppm | 0.1812 ppm | 0.0018 ppm | 2,304.2012 [SIC 500] | 0.0036 ppm | -0.0002 ppm | 0.0010 ppm |
| Concentration per Run 1 | 1.7397 ppm | 0.1857 ppm | 0.0019 ppm | 2,379.4139 ppm | 0.0036 ppm | -0.0001 ppm | 0.0014 ppm |
| Concentration per Run 2 | 1.7207 ppm | 0.1784 ppm | 0.0020 ppm | 2,225.1524 ppm | 0.0034 ppm | -0.0003 ppm | 0.0002 ppm |
| Concentration per Run 3 | 1.6968 ppm | 0.1795 ppm | 0.0015 ppm | 2,308.0372 ppm | 0.0039 ppm | -0.0003 ppm | 0.0013 ppm |
| Concentration RSD | 1.3 % | 2.2 % | 14.6 % | 3.4 % | 7.6 % | 40.1 % | 69.7 % |

| | 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 | -0.0027 ppm | 1.3508 ppm | 0.0000 ppm | 0.3192 ppm | -0.0003 ppm | -0.0002 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0042 ppm | 1.3622 ppm | 0.0004 ppm | 0.3267 ppm | -0.0003 ppm | 0.0013 ppm | 0.0001 ppm |
| Concentration per Run 2 | -0.0011 ppm | 1.3519 ppm | -0.0003 ppm | 0.3158 ppm | -0.0005 ppm | -0.0014 ppm | 0.0000 ppm |
| Concentration per Run 3 | -0.0027 ppm | 1.3383 ppm | -0.0002 ppm | 0.3152 ppm | -0.0001 ppm | -0.0006 ppm | 0.0001 ppm |
| Concentration RSD | 57.9 % | 0.9 % | 898.8 % | 2.0 % | 72.7 % | 655.1 % | 82.5 % |

| | 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 | 0.0143 ppm | 63.7768 % | 81.0666 % | 55.6455 % | 63.7951 % | 81.1617 % | 68.2105 % |
| Concentration per Run 1 | 0.0144 ppm | 63.2348 % | 79.1203 % | 55.7277 % | 63.8911 % | 79.5481 % | 68.5205 % |
| Concentration per Run 2 | 0.0145 ppm | 63.7326 % | 81.9040 % | 55.8153 % | 63.6136 % | 82.0080 % | 68.2377 % |
| Concentration per Run 3 | 0.0140 ppm | 64.3631 % | 82.1756 % | 55.3935 % | 63.8806 % | 81.9291 % | 67.8733 % |
| Concentration RSD | 1.9 % | 0.9 % | 2.1 % | 0.4 % | 0.2 % | 1.7 % | 0.5 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: L2474004-14d2 WG2012740
Analysis started at: 12/24/2024 1:06:40 AM
Rack 3
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 | 0.0002 ppm | 0.0917 ppm | -0.0003 ppm | 0.0792 ppm | 0.0470 ppm | 0.0000 ppm | 28.2818 ppm |
| Concentration per Run 1 | 0.0000 ppm | 0.0964 ppm | -0.0003 ppm | 0.0793 ppm | 0.0472 ppm | 0.0000 ppm | 28.2740 ppm |
| Concentration per Run 2 | 0.0002 ppm | 0.0936 ppm | 0.0010 ppm | 0.0799 ppm | 0.0471 ppm | 0.0000 ppm | 28.3209 ppm |
| Concentration per Run 3 | 0.0003 ppm | 0.0852 ppm | -0.0015 ppm | 0.0784 ppm | 0.0467 ppm | 0.0000 ppm | 28.2505 ppm |
| Concentration RSD | 80.4 % | 6.4 % | 490.2 % | 1.0 % | 0.5 % | 294.6 % | 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 | -0.0002 ppm | 0.0006 ppm | 0.0021 ppm | 0.0049 ppm | 0.8348 ppm | 15.9230 ppm | 0.0263 ppm |
| Concentration per Run 1 | -0.0001 ppm | 0.0009 ppm | 0.0023 ppm | 0.0049 ppm | 0.8318 ppm | 15.9274 ppm | 0.0262 ppm |
| Concentration per Run 2 | -0.0001 ppm | 0.0004 ppm | 0.0018 ppm | 0.0050 ppm | 0.8386 ppm | 16.0025 ppm | 0.0267 ppm |
| Concentration per Run 3 | -0.0002 ppm | 0.0006 ppm | 0.0021 ppm | 0.0049 ppm | 0.8341 ppm | 15.8391 ppm | 0.0260 ppm |
| Concentration RSD | 48.6 % | 44.0 % | 11.1 % | 0.3 % | 0.4 % | 0.5 % | 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 | 6.8348 ppm | 0.0713 ppm | 0.0035 ppm | 1,868.2082 [SIC 500] | 0.0057 ppm | 0.0004 ppm | 0.0016 ppm |
| Concentration per Run 1 | 6.9406 ppm | 0.0715 ppm | 0.0036 ppm | 1,870.8681 ppm | 0.0057 ppm | -0.0002 ppm | -0.0004 ppm |
| Concentration per Run 2 | 6.8280 ppm | 0.0715 ppm | 0.0036 ppm | 1,882.9611 ppm | 0.0058 ppm | 0.0002 ppm | 0.0044 ppm |
| Concentration per Run 3 | 6.7358 ppm | 0.0710 ppm | 0.0034 ppm | 1,850.7955 ppm | 0.0057 ppm | 0.0010 ppm | 0.0008 ppm |
| Concentration RSD | 1.5 % | 0.4 % | 2.9 % | 0.9 % | 0.8 % | 174.0 % | 155.7 % |

| | 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 | -0.0029 ppm | 1.3948 ppm | 0.0001 ppm | 0.2370 ppm | -0.0001 ppm | 0.0002 ppm | 0.0006 ppm |
| Concentration per Run 1 | -0.0041 ppm | 1.4113 ppm | 0.0003 ppm | 0.2377 ppm | -0.0001 ppm | 0.0003 ppm | 0.0005 ppm |
| Concentration per Run 2 | -0.0023 ppm | 1.3895 ppm | 0.0007 ppm | 0.2373 ppm | -0.0002 ppm | 0.0003 ppm | 0.0006 ppm |
| Concentration per Run 3 | -0.0023 ppm | 1.3834 ppm | -0.0007 ppm | 0.2359 ppm | -0.0001 ppm | 0.0001 ppm | 0.0005 ppm |
| Concentration RSD | 37.1 % | 1.1 % | 893.2 % | 0.4 % | 38.4 % | 64.3 % | 11.0 % |

| | 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 | 0.0141 ppm | 70.1645 % | 83.2723 % | 61.3427 % | 69.0758 % | 82.9127 % | 73.2553 % |
| Concentration per Run 1 | 0.0144 ppm | 69.2875 % | 83.4696 % | 61.0905 % | 68.8093 % | 82.9824 % | 73.4289 % |
| Concentration per Run 2 | 0.0138 ppm | 70.3992 % | 82.9289 % | 61.3229 % | 69.3563 % | 82.8110 % | 73.0337 % |
| Concentration per Run 3 | 0.0140 ppm | 70.8069 % | 83.4185 % | 61.6147 % | 69.0619 % | 82.9447 % | 73.3032 % |
| Concentration RSD | 2.0 % | 1.1 % | 0.4 % | 0.4 % | 0.4 % | 0.1 % | 0.3 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/24/2024 1:11:09 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 | 0.4746 ppm | 0.4812 ppm | 0.4376 ppm | 0.4367 ppm | 0.4945 ppm | 0.4848 ppm | 0.4807 ppm |
| Concentration per Run 1 | 0.4780 ppm | 0.4808 ppm | 0.4366 ppm | 0.4350 ppm | 0.4910 ppm | 0.4846 ppm | 0.4823 ppm |
| Concentration per Run 2 | 0.4743 ppm | 0.4827 ppm | 0.4393 ppm | 0.4383 ppm | 0.4930 ppm | 0.4842 ppm | 0.4803 ppm |
| Concentration per Run 3 | 0.4717 ppm | 0.4802 ppm | 0.4368 ppm | 0.4368 ppm | 0.4996 ppm | 0.4855 ppm | 0.4794 ppm |
| Recovery Percentage 1 | 94.929 % | 96.245 % | 87.520 % | 87.342 % | 98.900 % | 96.954 % | 96.138 % |
| Concentration RSD | 0.7 % | 0.3 % | 0.3 % | 0.4 % | 0.9 % | 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 | 0.4702 ppm | 0.4890 ppm | 0.4750 ppm | 0.4686 ppm | 0.4819 ppm | 5.4102 ppm | 0.5065 ppm |
| Concentration per Run 1 | 0.4708 ppm | 0.4903 ppm | 0.4773 ppm | 0.4699 ppm | 0.4834 ppm | 5.4060 ppm | 0.5039 ppm |
| Concentration per Run 2 | 0.4686 ppm | 0.4881 ppm | 0.4744 ppm | 0.4689 ppm | 0.4816 ppm | 5.4084 ppm | 0.5046 ppm |
| Concentration per Run 3 | 0.4711 ppm | 0.4887 ppm | 0.4732 ppm | 0.4671 ppm | 0.4807 ppm | 5.4162 ppm | 0.5109 ppm |
| Recovery Percentage 1 | 94.034 % | 97.806 % | 94.996 % | 93.729 % | 96.384 % | 108.204 % | 101.292 % |
| Concentration RSD | 0.3 % | 0.2 % | 0.4 % | 0.3 % | 0.3 % | 0.1 % | 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 | 0.4745 ppm | 0.4732 ppm | 0.4663 ppm | 12.2978 ppm | 0.4853 ppm | 0.4797 ppm | 0.4708 ppm |
| Concentration per Run 1 | 0.4768 ppm | 0.4746 ppm | 0.4645 ppm | 12.2543 ppm | 0.4865 ppm | 0.4799 ppm | 0.4731 ppm |
| Concentration per Run 2 | 0.4738 ppm | 0.4735 ppm | 0.4661 ppm | 12.3009 ppm | 0.4859 ppm | 0.4802 ppm | 0.4733 ppm |
| Concentration per Run 3 | 0.4730 ppm | 0.4714 ppm | 0.4682 ppm | 12.3383 ppm | 0.4834 ppm | 0.4791 ppm | 0.4662 ppm |
| Recovery Percentage 1 | 94.906 % | 94.632 % | 93.255 % | 122.978 % | 97.055 % | 95.948 % | 94.169 % |
| Concentration RSD | 0.4 % | 0.4 % | 0.4 % | 0.3 % | 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 | 0.4590 ppm | 5.0359 ppm | 0.4902 ppm | 0.5259 ppm | 0.4756 ppm | 0.4734 ppm | 0.4888 ppm |
| Concentration per Run 1 | 0.4592 ppm | 5.0502 ppm | 0.4902 ppm | 0.5245 ppm | 0.4765 ppm | 0.4740 ppm | 0.4910 ppm |
| Concentration per Run 2 | 0.4595 ppm | 5.0490 ppm | 0.4910 ppm | 0.5247 ppm | 0.4767 ppm | 0.4729 ppm | 0.4874 ppm |
| Concentration per Run 3 | 0.4582 ppm | 5.0085 ppm | 0.4895 ppm | 0.5286 ppm | 0.4735 ppm | 0.4732 ppm | 0.4882 ppm |
| Recovery Percentage 1 | 91.795 % | 95.922 % | 98.049 % | 105.185 % | 95.111 % | 94.674 % | 97.767 % |
| Concentration RSD | 0.1 % | 0.5 % | 0.2 % | 0.4 % | 0.4 % | 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 | 0.4708 ppm | 97.8508 % | 98.3895 % | 92.0744 % | 93.8789 % | 97.2520 % | 94.4642 % |
| Concentration per Run 1 | 0.4721 ppm | 97.5920 % | 98.2921 % | 91.8091 % | 93.8963 % | 97.3259 % | 94.2715 % |
| Concentration per Run 2 | 0.4681 ppm | 97.9957 % | 98.1034 % | 91.9259 % | 93.8971 % | 97.0784 % | 94.6191 % |
| Concentration per Run 3 | 0.4722 ppm | 97.9648 % | 98.7730 % | 92.4883 % | 93.8435 % | 97.3518 % | 94.5020 % |
| Recovery Percentage 1 | 94.161 % | | | | | | |
| Concentration RSD | 0.5 % | 0.2 % | 0.4 % | 0.4 % | 0.0 % | 0.2 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/24/2024 1:15:37 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 | -0.0011 ppm | -0.0004 ppm | 0.0008 ppm | 0.0001 ppm | 0.0000 ppm | 0.0005 ppm |
| Concentration per Run 1 | -0.0002 ppm | -0.0019 ppm | -0.0012 ppm | 0.0012 ppm | 0.0001 ppm | 0.0000 ppm | -0.0002 ppm |
| Concentration per Run 2 | 0.0001 ppm | 0.0012 ppm | 0.0002 ppm | 0.0010 ppm | 0.0001 ppm | 0.0000 ppm | 0.0005 ppm |
| Concentration per Run 3 | -0.0001 ppm | -0.0027 ppm | -0.0003 ppm | 0.0001 ppm | 0.0001 ppm | 0.0001 ppm | 0.0011 ppm |
| Recovery Percentage 1 | -1.132 % | -1.143 % | -8.891 % | 2.646 % | 1.015 % | 0.972 % | 0.457 % |
| Concentration RSD | 217.1 % | 179.3 % | 166.8 % | 76.4 % | 16.3 % | 14.2 % | 143.5 % |

| | 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 | -0.0002 ppm | 0.0001 ppm | -0.0003 ppm | 0.0014 ppm | 0.0823 ppm | -0.0005 ppm |
| Concentration per Run 1 | 0.0001 ppm | 0.0000 ppm | 0.0001 ppm | -0.0004 ppm | 0.0017 ppm | 0.0746 ppm | -0.0007 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0003 ppm | 0.0002 ppm | -0.0003 ppm | 0.0011 ppm | 0.0915 ppm | -0.0005 ppm |
| Concentration per Run 3 | 0.0001 ppm | -0.0003 ppm | -0.0001 ppm | -0.0004 ppm | 0.0014 ppm | 0.0807 ppm | -0.0005 ppm |
| Recovery Percentage 1 | 1.432 % | -2.409 % | 0.615 % | -3.459 % | 2.771 % | 3.291 % | -5.315 % |
| Concentration RSD | 29.8 % | 71.2 % | 189.1 % | 11.4 % | 18.6 % | 10.4 % | 21.2 % |

| | 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 | -0.0014 ppm | 0.0000 ppm | 0.0020 ppm | 2.0723 ppm | 0.0003 ppm | 0.0003 ppm | 0.0021 ppm |
| Concentration per Run 1 | -0.0015 ppm | 0.0001 ppm | 0.0021 ppm | 2.0596 ppm | -0.0003 ppm | 0.0005 ppm | 0.0022 ppm |
| Concentration per Run 2 | -0.0017 ppm | 0.0001 ppm | 0.0020 ppm | 2.0789 ppm | 0.0009 ppm | 0.0002 ppm | 0.0025 ppm |
| Concentration per Run 3 | -0.0009 ppm | 0.0000 ppm | 0.0018 ppm | 2.0783 ppm | 0.0002 ppm | 0.0002 ppm | 0.0016 ppm |
| Recovery Percentage 1 | -1.364 % | 0.489 % | 3.942 % | 103.613 % | 1.184 % | 2.808 % | 4.190 % |
| Concentration RSD | 28.8 % | 60.7 % | 6.1 % | 0.5 % | 205.5 % | 54.6 % | 21.6 % |

| | 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 | 0.0010 ppm | 0.0002 ppm | 0.0001 ppm | -0.0001 ppm | 0.0000 ppm | 0.0001 ppm |
| Concentration per Run 1 | -0.0011 ppm | 0.0003 ppm | 0.0004 ppm | 0.0001 ppm | -0.0002 ppm | 0.0000 ppm | 0.0000 ppm |
| Concentration per Run 2 | -0.0008 ppm | 0.0026 ppm | -0.0002 ppm | 0.0001 ppm | 0.0000 ppm | -0.0005 ppm | 0.0000 ppm |
| Concentration per Run 3 | -0.0008 ppm | 0.0000 ppm | 0.0004 ppm | 0.0001 ppm | -0.0001 ppm | 0.0003 ppm | 0.0002 ppm |
| Recovery Percentage 1 | -8.915 % | 0.191 % | 0.384 % | 0.921 % | -0.710 % | -0.179 % | 0.785 % |
| Concentration RSD | 22.6 % | 148.4 % | 179.5 % | 28.1 % | 136.2 % | 1,089.3 % | 98.1 % |

| | 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 | -0.0005 ppm | 94.8319 % | 96.5378 % | 93.1373 % | 95.2172 % | 97.6384 % | 96.1847 % |
| Concentration per Run 1 | -0.0005 ppm | 94.2722 % | 96.6195 % | 92.7618 % | 95.5170 % | 97.9123 % | 95.9125 % |
| Concentration per Run 2 | -0.0007 ppm | 94.9014 % | 96.6873 % | 93.1237 % | 95.0697 % | 97.8090 % | 96.0702 % |
| Concentration per Run 3 | -0.0005 ppm | 95.3221 % | 96.3065 % | 93.5264 % | 95.0650 % | 97.1940 % | 96.5715 % |
| Recovery Percentage 1 | -10.977 % | | | | | | |
| Concentration RSD | 23.4 % | 0.6 % | 0.2 % | 0.4 % | 0.3 % | 0.4 % | 0.4 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCV
Analysis started at: 12/24/2024 1:20:05 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 | 0.4765 ppm | 0.4857 ppm | 0.4368 ppm | 0.4402 ppm | 0.4971 ppm | 0.4861 ppm | 0.4791 ppm |
| Concentration per Run 1 | 0.4782 ppm | 0.4838 ppm | 0.4366 ppm | 0.4451 ppm | 0.4985 ppm | 0.4857 ppm | 0.4795 ppm |
| Concentration per Run 2 | 0.4775 ppm | 0.4856 ppm | 0.4383 ppm | 0.4368 ppm | 0.4954 ppm | 0.4836 ppm | 0.4764 ppm |
| Concentration per Run 3 | 0.4737 ppm | 0.4878 ppm | 0.4355 ppm | 0.4387 ppm | 0.4975 ppm | 0.4890 ppm | 0.4815 ppm |
| Recovery Percentage 1 | 95.297 % | 97.143 % | 87.367 % | 88.041 % | 99.421 % | 97.222 % | 95.823 % |
| Concentration RSD | 0.5 % | 0.4 % | 0.3 % | 1.0 % | 0.3 % | 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 | 0.4764 ppm | 0.4941 ppm | 0.4788 ppm | 0.4717 ppm | 0.4833 ppm | 5.3854 ppm | 0.5122 ppm |
| Concentration per Run 1 | 0.4810 ppm | 0.4982 ppm | 0.4816 ppm | 0.4752 ppm | 0.4839 ppm | 5.3698 ppm | 0.5133 ppm |
| Concentration per Run 2 | 0.4741 ppm | 0.4913 ppm | 0.4765 ppm | 0.4691 ppm | 0.4800 ppm | 5.3841 ppm | 0.5114 ppm |
| Concentration per Run 3 | 0.4741 ppm | 0.4929 ppm | 0.4782 ppm | 0.4707 ppm | 0.4860 ppm | 5.4022 ppm | 0.5119 ppm |
| Recovery Percentage 1 | 95.281 % | 98.826 % | 95.754 % | 94.331 % | 96.660 % | 107.707 % | 102.436 % |
| Concentration RSD | 0.8 % | 0.7 % | 0.5 % | 0.7 % | 0.6 % | 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 | 0.4767 ppm | 0.4741 ppm | 0.4714 ppm | 11.2777 ppm | 0.4892 ppm | 0.4823 ppm | 0.4741 ppm |
| Concentration per Run 1 | 0.4817 ppm | 0.4743 ppm | 0.4692 ppm | 11.2720 ppm | 0.4920 ppm | 0.4837 ppm | 0.4762 ppm |
| Concentration per Run 2 | 0.4736 ppm | 0.4716 ppm | 0.4715 ppm | 11.2881 ppm | 0.4885 ppm | 0.4827 ppm | 0.4761 ppm |
| Concentration per Run 3 | 0.4747 ppm | 0.4765 ppm | 0.4736 ppm | 11.2731 ppm | 0.4872 ppm | 0.4803 ppm | 0.4701 ppm |
| Recovery Percentage 1 | 95.341 % | 94.825 % | 94.286 % | 112.777 % | 97.842 % | 96.453 % | 94.823 % |
| Concentration RSD | 0.9 % | 0.5 % | 0.5 % | 0.1 % | 0.5 % | 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 | 0.4593 ppm | 5.0467 ppm | 0.4949 ppm | 0.5287 ppm | 0.4770 ppm | 0.4742 ppm | 0.4919 ppm |
| Concentration per Run 1 | 0.4607 ppm | 5.0785 ppm | 0.4992 ppm | 0.5272 ppm | 0.4788 ppm | 0.4758 ppm | 0.4930 ppm |
| Concentration per Run 2 | 0.4575 ppm | 5.0277 ppm | 0.4913 ppm | 0.5276 ppm | 0.4777 ppm | 0.4764 ppm | 0.4908 ppm |
| Concentration per Run 3 | 0.4597 ppm | 5.0339 ppm | 0.4943 ppm | 0.5312 ppm | 0.4744 ppm | 0.4703 ppm | 0.4918 ppm |
| Recovery Percentage 1 | 91.857 % | 96.128 % | 98.985 % | 105.735 % | 95.393 % | 94.830 % | 98.372 % |
| Concentration RSD | 0.4 % | 0.5 % | 0.8 % | 0.4 % | 0.5 % | 0.7 % | 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 | 0.4768 ppm | 97.8221 % | 98.1753 % | 92.5707 % | 94.0647 % | 97.2203 % | 94.9177 % |
| Concentration per Run 1 | 0.4820 ppm | 97.0830 % | 98.1643 % | 92.6455 % | 93.6335 % | 97.3672 % | 95.0366 % |
| Concentration per Run 2 | 0.4738 ppm | 98.0308 % | 98.5940 % | 92.1058 % | 94.0465 % | 97.3445 % | 94.7458 % |
| Concentration per Run 3 | 0.4747 ppm | 98.3523 % | 97.7676 % | 92.9609 % | 94.5142 % | 96.9492 % | 94.9707 % |
| Recovery Percentage 1 | 95.368 % | | | | | | |
| Concentration RSD | 0.9 % | 0.7 % | 0.4 % | 0.5 % | 0.5 % | 0.2 % | 0.2 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: CCB
Analysis started at: 12/24/2024 1:24:32 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 | 0.0007 ppm | -0.0006 ppm | 0.0012 ppm | 0.0001 ppm | 0.0000 ppm | 0.0007 ppm |
| Concentration per Run 1 | -0.0002 ppm | 0.0013 ppm | -0.0005 ppm | 0.0013 ppm | 0.0001 ppm | 0.0000 ppm | -0.0004 ppm |
| Concentration per Run 2 | -0.0001 ppm | -0.0013 ppm | -0.0006 ppm | 0.0013 ppm | 0.0002 ppm | 0.0001 ppm | 0.0021 ppm |
| Concentration per Run 3 | 0.0001 ppm | 0.0020 ppm | -0.0007 ppm | 0.0011 ppm | 0.0001 ppm | 0.0000 ppm | 0.0004 ppm |
| Recovery Percentage 1 | -1.258 % | 0.673 % | -12.149 % | 4.072 % | 1.164 % | 0.676 % | 0.690 % |
| Concentration RSD | 284.5 % | 257.5 % | 21.2 % | 12.0 % | 66.8 % | 50.3 % | 190.5 % |

| | 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 | -0.0001 ppm | 0.0000 ppm | -0.0003 ppm | 0.0018 ppm | 0.0538 ppm | -0.0006 ppm |
| Concentration per Run 1 | 0.0000 ppm | -0.0002 ppm | 0.0000 ppm | -0.0003 ppm | 0.0016 ppm | 0.0608 ppm | -0.0003 ppm |
| Concentration per Run 2 | 0.0000 ppm | -0.0001 ppm | 0.0000 ppm | -0.0003 ppm | 0.0029 ppm | 0.0577 ppm | -0.0007 ppm |
| Concentration per Run 3 | 0.0000 ppm | 0.0000 ppm | 0.0001 ppm | -0.0002 ppm | 0.0009 ppm | 0.0428 ppm | -0.0010 ppm |
| Recovery Percentage 1 | 0.029 % | -0.849 % | 0.267 % | -2.543 % | 3.560 % | 2.150 % | -6.335 % |
| Concentration RSD | 3,333.4 % | 139.2 % | 111.8 % | 11.9 % | 56.1 % | 17.9 % | 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 | -0.0014 ppm | 0.0001 ppm | 0.0022 ppm | 1.1852 ppm | 0.0001 ppm | -0.0003 ppm | 0.0018 ppm |
| Concentration per Run 1 | -0.0019 ppm | 0.0001 ppm | 0.0022 ppm | 1.1879 ppm | 0.0003 ppm | -0.0001 ppm | 0.0022 ppm |
| Concentration per Run 2 | -0.0021 ppm | -0.0001 ppm | 0.0021 ppm | 1.1790 ppm | 0.0001 ppm | 0.0001 ppm | 0.0020 ppm |
| Concentration per Run 3 | -0.0003 ppm | 0.0002 ppm | 0.0023 ppm | 1.1889 ppm | -0.0001 ppm | -0.0009 ppm | 0.0012 ppm |
| Recovery Percentage 1 | -1.447 % | 0.712 % | 4.385 % | 59.261 % | 0.305 % | -3.040 % | 3.603 % |
| Concentration RSD | 66.5 % | 173.5 % | 5.0 % | 0.5 % | 275.3 % | 186.1 % | 29.5 % |

| | 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 | 0.0002 ppm | 0.0007 ppm | 0.0001 ppm | -0.0002 ppm | 0.0005 ppm | 0.0000 ppm |
| Concentration per Run 1 | -0.0012 ppm | 0.0010 ppm | -0.0002 ppm | 0.0001 ppm | -0.0002 ppm | 0.0010 ppm | 0.0000 ppm |
| Concentration per Run 2 | -0.0010 ppm | -0.0003 ppm | 0.0015 ppm | 0.0001 ppm | -0.0003 ppm | 0.0001 ppm | 0.0000 ppm |
| Concentration per Run 3 | 0.0008 ppm | 0.0000 ppm | 0.0008 ppm | 0.0001 ppm | -0.0002 ppm | 0.0005 ppm | 0.0001 ppm |
| Recovery Percentage 1 | -4.782 % | 0.045 % | 1.411 % | 0.837 % | -2.305 % | 2.461 % | 0.490 % |
| Concentration RSD | 224.2 % | 305.9 % | 125.5 % | 22.3 % | 20.6 % | 89.2 % | 130.2 % |

| | 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 | 95.0129 % | 96.8888 % | 93.1843 % | 95.6325 % | 98.2773 % | 96.4580 % |
| Concentration per Run 1 | -0.0005 ppm | 94.4007 % | 97.1328 % | 92.5332 % | 95.7851 % | 98.6206 % | 96.5159 % |
| Concentration per Run 2 | -0.0007 ppm | 94.8757 % | 97.3369 % | 93.3991 % | 95.3388 % | 98.1343 % | 96.5438 % |
| Concentration per Run 3 | -0.0008 ppm | 95.7622 % | 96.1966 % | 93.6204 % | 95.7735 % | 98.0770 % | 96.3145 % |
| Recovery Percentage 1 | -12.832 % | | | | | | |
| Concentration RSD | 18.0 % | 0.7 % | 0.6 % | 0.6 % | 0.3 % | 0.3 % | 0.1 % |

# iCAP Pro Trace 8 Data report

12/24/2024 9:26:53 AM

LabBook: WG2012543_12232124T8.imexp

Sample: LLOQ
Analysis started at: 12/24/2024 1:29:00 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 | 0.0050 ppm | 0.1014 ppm | 0.0048 ppm | 0.0281 ppm | 0.0102 ppm | 0.0049 ppm | 0.1019 ppm |
| Concentration per Run 1 | 0.0051 ppm | 0.0982 ppm | 0.0050 ppm | 0.0294 ppm | 0.0102 ppm | 0.0049 ppm | 0.0995 ppm |
| Concentration per Run 2 | 0.0051 ppm | 0.1048 ppm | 0.0045 ppm | 0.0274 ppm | 0.0102 ppm | 0.0050 ppm | 0.1038 ppm |
| Concentration per Run 3 | 0.0048 ppm | 0.1012 ppm | 0.0049 ppm | 0.0277 ppm | 0.0102 ppm | 0.0049 ppm | 0.1024 ppm |
| Recovery Percentage 1 | 99.867 % | 101.392 % | 95.953 % | 93.814 % | 101.753 % | 98.754 % | 101.889 % |
| Concentration RSD | 3.2 % | 3.3 % | 6.0 % | 3.8 % | 0.1 % | 0.3 % | 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 | 0.0039 ppm | 0.0101 ppm | 0.0096 ppm | 0.0097 ppm | 0.0512 ppm | 2.7603 ppm | 0.0099 ppm |
| Concentration per Run 1 | 0.0038 ppm | 0.0102 ppm | 0.0095 ppm | 0.0097 ppm | 0.0520 ppm | 2.7796 ppm | 0.0105 ppm |
| Concentration per Run 2 | 0.0040 ppm | 0.0103 ppm | 0.0098 ppm | 0.0098 ppm | 0.0507 ppm | 2.7624 ppm | 0.0095 ppm |
| Concentration per Run 3 | 0.0039 ppm | 0.0100 ppm | 0.0096 ppm | 0.0097 ppm | 0.0509 ppm | 2.7388 ppm | 0.0097 ppm |
| Recovery Percentage 1 | 97.307 % | 101.494 % | 96.289 % | 97.309 % | 102.414 % | 110.410 % | 99.202 % |
| Concentration RSD | 1.8 % | 1.4 % | 1.6 % | 0.8 % | 1.3 % | 0.7 % | 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 | 0.1015 ppm | 0.0098 ppm | 0.0514 ppm | 3.0301 ppm | 0.0208 ppm | 0.0105 ppm | 0.0525 ppm |
| Concentration per Run 1 | 0.1012 ppm | 0.0098 ppm | 0.0513 ppm | 3.0309 ppm | 0.0207 ppm | 0.0105 ppm | 0.0542 ppm |
| Concentration per Run 2 | 0.1022 ppm | 0.0099 ppm | 0.0513 ppm | 3.0372 ppm | 0.0213 ppm | 0.0107 ppm | 0.0513 ppm |
| Concentration per Run 3 | 0.1011 ppm | 0.0097 ppm | 0.0516 ppm | 3.0222 ppm | 0.0204 ppm | 0.0103 ppm | 0.0520 ppm |
| Recovery Percentage 1 | 101.499 % | 98.183 % | 102.764 % | 151.505 % | 83.334 % | 105.066 % | 105.006 % |
| Concentration RSD | 0.6 % | 0.8 % | 0.3 % | 0.2 % | 2.2 % | 2.0 % | 2.9 % |

| | 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 | 0.4819 ppm | 0.0522 ppm | 0.0104 ppm | 0.0097 ppm | 0.0199 ppm | 0.0102 ppm |
| Concentration per Run 1 | 0.0086 ppm | 0.4840 ppm | 0.0523 ppm | 0.0105 ppm | 0.0096 ppm | 0.0205 ppm | 0.0102 ppm |
| Concentration per Run 2 | 0.0085 ppm | 0.4828 ppm | 0.0522 ppm | 0.0103 ppm | 0.0096 ppm | 0.0205 ppm | 0.0102 ppm |
| Concentration per Run 3 | 0.0079 ppm | 0.4788 ppm | 0.0520 ppm | 0.0104 ppm | 0.0097 ppm | 0.0186 ppm | 0.0101 ppm |
| Recovery Percentage 1 | 83.393 % | 96.370 % | 104.398 % | 103.967 % | 96.622 % | 99.329 % | 101.965 % |
| Concentration RSD | 4.6 % | 0.6 % | 0.3 % | 0.7 % | 0.4 % | 5.7 % | 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 | 0.0045 ppm | 96.8589 % | 98.0304 % | 94.2993 % | 95.2046 % | 97.8043 % | 96.0312 % |
| Concentration per Run 1 | 0.0045 ppm | 96.6322 % | 98.2696 % | 93.9895 % | 95.4722 % | 98.0241 % | 96.2082 % |
| Concentration per Run 2 | 0.0047 ppm | 96.4561 % | 98.1211 % | 94.5805 % | 94.6438 % | 97.9210 % | 96.0876 % |
| Concentration per Run 3 | 0.0043 ppm | 97.4885 % | 97.7005 % | 94.3277 % | 95.4977 % | 97.4678 % | 95.7978 % |
| Recovery Percentage 1 | 90.023 % | | | | | | |
| Concentration RSD | 4.0 % | 0.6 % | 0.3 % | 0.3 % | 0.5 % | 0.3 % | 0.2 % |

**QC True Values: Trace 4,5,6,7**

| | Element | True Value (mg/L) |
|---|---|---|
| **ICV/CCV** | All | 0.50 |
| | K | 5.00 |
| | Na | 10.00 |
| | Si | 5.25 |
| **ICSA** | Al | 250 |
| | Ca | 250 |
| | Fe | 100 |
| | Mg | 250 |
| **ICSB** | Al | 9.00 |
| | Sb | 1.00 |
| | As | 1.00 |
| | Ba | 0.30 |
| | Be | 0.10 |
| | Bi | 1.00 |
| | B | 0.50 |
| | Cd | 0.30 |
| | Ca | 45.00 |
| | Cr | 0.30 |
| | Co | 0.30 |
| | Cu | 0.30 |
| | Fe | 37.50 |
| | Pb | 1.00 |
| | Mg | 22.50 |
| | Mn | 0.20 |
| | Mo | 0.30 |
| | Ni | 0.30 |
| | K | 20.00 |
| | Se | 0.50 |
| | Si | 1.23 |
| | Ag | 0.30 |
| | Na | 7.50 |
| | Sr | 1.00 |
| | Tl | 1.00 |
| | Sn | 1.00 |
| | Ti | 1.00 |
| | V | 0.30 |
| | Zn | 0.30 |

| | Element | True Value (mg/L) |
|---|---|---|
| **CRI** | Al | 0.40 |
| | Sb | 0.10 |
| | As | 0.02 |
| | Ba | 0.04 |
| | Be | 0.01 |
| | Bi | 0.02 |
| | B | 0.10 |
| | Cd | 0.01 |
| | Ca | 0.40 |
| | Cr | 0.02 |
| | Co | 0.10 |
| | Cu | 0.05 |
| | Fe | 0.20 |
| | Pb | 0.05 |
| | Mg | 0.40 |
| | Mn | 0.03 |
| | Mo | 0.10 |
| | Ni | 0.08 |
| | K | 5.00 |
| | Se | 0.02 |
| | Si | 1.00 |
| | Ag | 0.02 |
| | Na | 5.00 |
| | Sr | 0.02 |
| | Tl | 0.02 |
| | Sn | 0.02 |
| | Ti | 0.02 |
| | V | 0.10 |
| | Zn | 0.04 |

**LCS & MS Spike Concentrations**

| Element | Liquid concentrations (mg/L) | Soil concentrations (mg/kg) |
|---|---|---|
| Al | 2.00 | 100 |
| Sb | 0.50 | 25.0 |
| As | 0.12 | 6.0 |
| Ba | 2.00 | 100 |
| Be | 0.05 | 2.5 |
| Bi | 1.00 | 50.0 |
| B | 1.00 | 50.0 |
| Cd | 0.05 | 2.55 |
| Ca | 10.00 | 500 |
| Cr | 0.20 | 10.0 |
| Co | 0.50 | 25.0 |
| Cu | 0.25 | 12.5 |
| Fe | 1.00 | 50.0 |
| Pb | 0.51 | 25.5 |
| Mg | 10.00 | 500 |
| Mn | 0.50 | 25.0 |
| Mo | 1.00 | 50.0 |
| Ni | 0.50 | 25.0 |
| K | 10.00 | 500 |
| Se | 0.12 | 6.0 |
| Si | 1.00 | 50.0 |
| Ag | 0.05 | 2.5 |
| Na | 10.00 | 500 |
| Sr | 1.00 | 50.0 |
| Tl | 0.12 | 6.0 |
| Sn | 1.00 | 50.0 |
| Ti | 1.00 | 50.0 |
| V | 0.50 | 25.0 |
| Zn | 0.50 | 25.0 |

## LCS and MS Spike Concentrations—As of 08/09/2011

| Element | Liquid Concentration(mg/L) | Soil Concentration (mg/kg) |
|---|---|---|
| Al | 2.00 | 160 |
| Sb | 0.50 | 40 |
| As | 0.12 | 9.6 |
| Ba | 2.00 | 160 |
| Be | 0.05 | 4.0 |
| Bi | 1.00 | 80 |
| B | 1.00 | 80 |
| Cd | 0.051 | 4.08 |
| Ca | 10.0 | 800 |
| Cr | 0.20 | 16 |
| Co | 0.50 | 40 |
| Cu | 0.25 | 20 |
| Fe | 1.00 | 80 |
| Pb | 0.51 | 40.8 |
| Mg | 10.0 | 800 |
| Mn | 0.50 | 40 |
| Mo | 1.00 | 80 |
| Ni | 0.50 | 40 |
| K | 10.0 | 800 |
| Se | 0.12 | 9.6 |
| Si | 1.00 | 80 |
| Ag | 0.05 | 24 |
| Na | 10.0 | 800 |
| Sr | 1.00 | 80 |
| Tl | 0.12 | 9.6 |
| Sn | 1.00 | 80 |
| Ti | 1.00 | 80 |
| V | 0.50 | 40 |
| Zn | 0.50 | 40 |

Revised 8/9/11 Soil spike is based on (2x water spike)x(50/1.25), where 50 is the final volume of soil digestate and 1.25 is the nominal digestion weight of 1.25g, except in the case of Ag, where additional Ag is added to the spike.

# ▪ Certificate of Analysis ▪

**Product:** Metals in Soil
**Catalog Number:** 540
**Lot No.** D102-540
**Certificate Issue Date:** June 22, 2018
**Expiration Date:** January 31, 2022
**Revision Number:** Original

*Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.*

## CERTIFICATION

| Parameter | Certified Value[1] | Reference Value | Uncertainty[2] | QC Performance Acceptance Limits[3] | PT Performance Acceptance Limits[4] |
|---|---|---|---|---|---|
| | mg/kg | mg/kg | % | mg/kg | mg/kg |
| Aluminum | 10100 | 8160 | 6.36 | 3960 - 12400 | 4080 - 12200 |
| Antimony | 120 | 60.9 | 9.42 | 0.822 - 121 | 12.0 - 166 |
| Arsenic | 144 | 135 | 5.08 | 112 - 158 | 94.6 - 176 |
| Barium | 469 | 443 | 6.77 | 366 - 521 | 332 - 554 |
| Beryllium | 207 | 197 | 5.86 | 164 - 229 | 148 - 246 |
| Boron | 213 | 174 | 12.6 | 127 - 221 | 105 - 244 |
| Cadmium | 224 | 204 | 6.65 | 169 - 240 | 153 - 256 |
| Calcium | 5190 | 4830 | 9.12 | 3950 - 5700 | 3510 - 6150 |
| Chromium | 138 | 132 | 8.56 | 109 - 155 | 92.2 - 171 |
| Cobalt | 182 | 179 | 7.93 | 151 - 207 | 134 - 224 |
| Copper | 191 | 184 | 6.72 | 155 - 213 | 138 - 230 |
| Iron | 15000 | 14400 | 10.7 | 8770 - 20000 | 5120 - 23600 |
| Lead | 225 | 216 | 7.72 | 178 - 254 | 159 - 274 |
| Magnesium | 2570 | 2340 | 6.13 | 1780 - 2900 | 1460 - 3230 |
| Manganese | 331 | 323 | 6.71 | 266 - 380 | 242 - 404 |
| Mercury | 16.8 | 13.2 | 16.0 | 8.64 - 17.7 | 7.89 - 18.5 |
| Molybdenum | 193 | 175 | 2.39 | 141 - 209 | 125 - 226 |
| Nickel | 163 | 152 | 5.95 | 126 - 178 | 106 - 197 |
| Potassium | 2420 | 2050 | 6.31 | 1440 - 2660 | 1210 - 2890 |
| Selenium | 81.9 | 74.9 | 4.13 | 59.3 - 90.5 | 47.0 - 103 |
| Silver | 57.6 | 53.9 | 9.00 | 43.0 - 64.8 | 37.8 - 70.0 |
| Sodium | 161 | 149 | 12.1 | 111 - 188 | 57.7 - 241 |
| Strontium | 100 | 96.2 | 4.04 | 78.1 - 114 | 69.0 - 123 |
| Thallium | 253 | 232 | 3.54 | 188 - 276 | 168 - 296 |



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| Parameter | Certified Value[1] | Reference Value | Uncertainty[2] | QC Performance Acceptance Limits[3] | PT Performance Acceptance Limits[4] |
|---|---|---|---|---|---|
| | mg/kg | mg/kg | % | mg/kg | mg/kg |
| Tin | 146 | 134 | 10.8 | 106 - 163 | 79.5 - 189 |
| Titanium | 449 | 340 | 7.20 | 70.2 - 609 | 44.9 - 711 |
| Uranium | 114 | 113 | 7.10 | 85.5 - 140 | 71.9 - 153 |
| Vanadium | 180 | 172 | 8.85 | 137 - 207 | 126 - 218 |
| Zinc | 217 | 211 | 6.58 | 171 - 250 | 147 - 274 |

## ANALYTICAL VERIFICATION

| Parameter | Certified Value[1] | Proficiency Testing Study | | | NIST Traceability | |
|---|---|---|---|---|---|---|
| | | Mean | Recovery[5] | n | SRM Number | Recovery |
| | mg/kg | mg/kg | % | | | % |
| Aluminum | 10100 | 8160 | 80.8 | 138 | - | - |
| Antimony | 120 | 60.9 | 50.8 | 135 | - | - |
| Arsenic | 144 | 135 | 93.8 | 184 | - | - |
| Barium | 469 | 443 | 94.5 | 158 | - | - |
| Beryllium | 207 | 197 | 95.0 | 148 | - | - |
| Boron | 213 | 174 | 81.8 | 107 | - | - |
| Cadmium | 224 | 204 | 91.3 | 199 | - | - |
| Calcium | 5190 | 4830 | 93.0 | 122 | - | - |
| Chromium | 138 | 132 | 95.5 | 172 | - | - |
| Cobalt | 182 | 179 | 98.4 | 140 | - | - |
| Copper | 191 | 184 | 96.3 | 183 | - | - |
| Iron | 15000 | 14400 | 95.6 | 133 | - | - |
| Lead | 225 | 216 | 96.2 | 204 | - | - |
| Magnesium | 2570 | 2340 | 91.2 | 122 | - | - |
| Manganese | 331 | 323 | 97.6 | 147 | - | - |
| Mercury | 16.8 | 13.2 | 78.3 | 128 | - | - |
| Molybdenum | 193 | 175 | 90.8 | 143 | - | - |
| Nickel | 163 | 152 | 93.1 | 185 | - | - |
| Potassium | 2420 | 2050 | 84.7 | 121 | - | - |
| Selenium | 81.9 | 74.9 | 91.5 | 163 | - | - |



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# ▪ Certificate of Analysis ▪

| Parameter | Certified Value[1] | Proficiency Testing Study | | n | NIST Traceability | |
|---|---|---|---|---|---|---|
| | | Mean | Recovery[5] | n | SRM Number | Recovery |
| | mg/kg | mg/kg | % | | | % |
| Silver | 57.6 | 53.9 | 93.6 | 150 | - | - |
| Sodium | 161 | 149 | 92.8 | 105 | - | - |
| Strontium | 100 | 96.2 | 96.2 | 90 | - | - |
| Thallium | 253 | 232 | 91.6 | 147 | - | - |
| Tin | 146 | 134 | 92.0 | 100 | - | - |
| Titanium | 449 | 340 | 75.6 | 93 | - | - |
| Uranium | 114 | 113 | 98.8 | 35 | - | - |
| Vanadium | 180 | 172 | 95.4 | 139 | - | - |
| Zinc | 217 | 211 | 97.0 | 180 | - | - |

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
**Traceability Recovery (%)** = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

**If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.**

**Certifying Officer**

**Brian Miller**

Brian Miller

**Quality Officer**

**Matthew Seebeck**

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02



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**Reference Material**

# ▪ Certificate of Analysis ▪

**Product:** Metals in Soil
**Catalog Number:** 540
**Lot No.** D105-540
**Certificate Issue Date:** March 19, 2019
**Expiration Date:** October 12, 2022
**Revision Number:** Original

*Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.*

## CERTIFICATION

| Parameter | Certified Value[1] | Reference Value | Uncertainty[2] | QC Performance Acceptance Limits[3] | PT Performance Acceptance Limits[4] |
|---|---|---|---|---|---|
| | mg/kg | mg/kg | % | mg/kg | mg/kg |
| Aluminum | 10100 | 8800 | 8.32 | 4600 - 13000 | 4470 - 13100 |
| Antimony | 282 | 147 | 7.70 | 6.17 - 289 | 28.2 - 366 |
| Arsenic | 155 | 143 | 6.34 | 119 - 168 | 100 - 186 |
| Barium | 439 | 415 | 5.37 | 343 - 488 | 311 - 519 |
| Beryllium | 192 | 179 | 2.78 | 149 - 210 | 134 - 224 |
| Boron | 216 | 160 | 7.08 | 113 - 208 | 96.1 - 238 |
| Cadmium | 61.5 | 56.2 | 0.528 | 46.6 - 65.9 | 42.2 - 70.3 |
| Calcium | 5190 | 4960 | 6.64 | 4090 - 5840 | 3610 - 6310 |
| Chromium | 104 | 101 | 4.75 | 83.2 - 118 | 70.5 - 131 |
| Cobalt | 196 | 189 | 0.500 | 158 - 219 | 141 - 236 |
| Copper | 65.0 | 63.1 | 2.65 | 53.1 - 73.1 | 47.3 - 78.9 |
| Iron | 15000 | 15700 | 8.94 | 10100 - 21300 | 6000 - 25400 |
| Lead | 126 | 125 | 4.77 | 103 - 146 | 89.3 - 160 |
| Magnesium | 2570 | 2410 | 6.26 | 1860 - 2970 | 1520 - 3310 |
| Manganese | 387 | 382 | 5.37 | 315 - 449 | 290 - 474 |
| Mercury | 7.76 | 7.61 | 13.7 | 5.53 - 9.69 | 4.57 - 10.7 |
| Molybdenum | 120 | 107 | 0.500 | 86.0 - 128 | 75.5 - 139 |
| Nickel | 117 | 108 | 0.514 | 89.5 - 127 | 75.7 - 141 |
| Potassium | 2420 | 2110 | 5.62 | 1500 - 2720 | 1260 - 2960 |
| Selenium | 84.6 | 77.9 | 7.10 | 61.8 - 94.0 | 49.2 - 107 |
| Silver | 34.6 | 34.3 | 8.34 | 27.8 - 40.9 | 23.6 - 45.1 |
| Sodium | 161 | 145 | 6.72 | 106 - 183 | 54.3 - 235 |
| Strontium | 104 | 104 | 3.95 | 85.1 - 123 | 74.8 - 133 |
| Thallium | 123 | 113 | 0.500 | 91.3 - 134 | 77.1 - 149 |



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| Parameter | Certified Value[1] | Reference Value | Uncertainty[2] | QC Performance Acceptance Limits[3] | PT Performance Acceptance Limits[4] |
|---|---|---|---|---|---|
| | mg/kg | mg/kg | % | mg/kg | mg/kg |
| Tin | 118 | 107 | 0.500 | 83.5 - 130 | 61.2 - 152 |
| Titanium | 512 | 421 | 5.80 | 114 - 728 | 0.00 - 854 |
| Uranium | 103 | 104 | 6.18 | 79.1 - 128 | 71.9 - 135 |
| Vanadium | 87.3 | 83.7 | 8.55 | 66.8 - 101 | 54.2 - 113 |
| Zinc | 251 | 240 | 3.98 | 194 - 285 | 168 - 312 |

## ANALYTICAL VERIFICATION

| Parameter | Certified Value[1] | Proficiency Testing Study | | | NIST Traceability | |
|---|---|---|---|---|---|---|
| | | Mean | Recovery[5] | n | SRM Number | Recovery |
| | mg/kg | mg/kg | % | | | % |
| Aluminum | 10100 | 8800 | 87.1 | 193 | - | - |
| Antimony | 282 | 147 | 52.3 | 216 | - | - |
| Arsenic | 155 | 143 | 92.5 | 240 | - | - |
| Barium | 439 | 415 | 94.6 | 222 | - | - |
| Beryllium | 192 | 179 | 93.4 | 220 | - | - |
| Boron | 216 | 160 | 74.2 | 152 | - | - |
| Cadmium | 61.5 | 56.2 | 91.5 | 239 | - | - |
| Calcium | 5190 | 4960 | 95.6 | 175 | - | - |
| Chromium | 104 | 101 | 96.8 | 237 | - | - |
| Cobalt | 196 | 189 | 96.2 | 215 | - | - |
| Copper | 65.0 | 63.1 | 97.1 | 237 | - | - |
| Iron | 15000 | 15700 | 105 | 195 | - | - |
| Lead | 126 | 125 | 99.0 | 243 | - | - |
| Magnesium | 2570 | 2410 | 93.9 | 177 | - | - |
| Manganese | 387 | 382 | 98.7 | 215 | - | - |
| Mercury | 7.76 | 7.61 | 98.0 | 157 | - | - |
| Molybdenum | 120 | 107 | 89.4 | 216 | - | - |
| Nickel | 117 | 108 | 92.5 | 235 | - | - |
| Potassium | 2420 | 2110 | 87.2 | 181 | - | - |
| Selenium | 84.6 | 77.9 | 92.1 | 231 | - | - |



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Reference Material

# ▪ Certificate of Analysis ▪

| Parameter | Certified Value[1] | Proficiency Testing Study | | | NIST Traceability | |
|---|---|---|---|---|---|---|
| | | Mean | Recovery[5] | n | SRM Number | Recovery |
| | mg/kg | mg/kg | % | | | % |
| Silver | 34.6 | 34.3 | 99.3 | 216 | - | - |
| Sodium | 161 | 145 | 89.8 | 166 | - | - |
| Strontium | 104 | 104 | 99.9 | 148 | - | - |
| Thallium | 123 | 113 | 91.8 | 215 | - | - |
| Tin | 118 | 107 | 90.4 | 164 | - | - |
| Titanium | 512 | 421 | 82.2 | 157 | - | - |
| Uranium | 103 | 104 | 101 | 61 | - | - |
| Vanadium | 87.3 | 83.7 | 95.9 | 214 | - | - |
| Zinc | 251 | 240 | 95.5 | 234 | - | - |

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
**Traceability Recovery (%)** = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

**If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.**

**Certifying Officer** | **Quality Officer**

**Brian Miller** | **Matthew Seebeck**

Brian Miller

ACCREDITED ACCREDITED



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Certified Reference Material

# ▪ Certificate of Analysis ▪

**Product:** Metals in Soil
**Catalog Number:** 540
**Lot No.** D109-540
**Certificate Issue Date:** March 24, 2020
**Expiration Date:** October 03, 2023
**Revision Number:** Original

*Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.*

## CERTIFICATION

| Parameter | Certified Value[1] | Reference Value[7] | Uncertainty[2] | QC Performance Acceptance Limits[3] | PT Performance Acceptance Limits[4] |
|---|---|---|---|---|---|
| | mg/kg | mg/kg | % | mg/kg | mg/kg |
| Aluminum | 10100 | 8130 | 2.54 | 3920 - 12300 | 4060 - 12200 |
| Antimony | 259 | 134 | 5.03 | 4.56 - 264 | 25.9 - 335 |
| Arsenic | 171 | 156 | 3.38 | 129 - 183 | 109 - 203 |
| Barium | 253 | 239 | 4.81 | 197 - 280 | 179 - 298 |
| Beryllium | 179 | 169 | 6.59 | 141 - 198 | 127 - 212 |
| Boron | 114 | 87.5 | 10.3 | 62.5 - 113 | 52.5 - 125 |
| Cadmium | 149 | 137 | 5.43 | 113 - 160 | 103 - 171 |
| Calcium | 5190 | 4760 | 3.48 | 3890 - 5640 | 3460 - 6070 |
| Chromium | 163 | 154 | 3.79 | 126 - 181 | 108 - 200 |
| Cobalt | 127 | 121 | 5.07 | 101 - 141 | 90.8 - 151 |
| Copper | 57.0 | 54.9 | 4.13 | 46.1 - 63.6 | 41.1 - 68.6 |
| Iron | 15000 | 14100 | 6.27 | 8470 - 19700 | 4920 - 23200 |
| Lead | 133 | 130 | 3.00 | 107 - 152 | 93.3 - 167 |
| Magnesium | 2570 | 2320 | 3.32 | 1760 - 2880 | 1440 - 3200 |
| Manganese | 277 | 269 | 2.67 | 221 - 317 | 199 - 340 |
| Mercury | 21.6 | 20.5 | 7.72 | 14.7 - 26.3 | 12.3 - 28.6 |
| Molybdenum | 108 | 95.4 | 2.61 | 76.4 - 114 | 66.9 - 124 |
| Nickel | 58.7 | 53.9 | 4.97 | 44.5 - 63.3 | 37.7 - 70.0 |
| Potassium | 2420 | 2020 | 3.06 | 1410 - 2630 | 1190 - 2850 |
| Selenium | 181 | 167 | 5.63 | 132 - 201 | 113 - 221 |
| Silver | 35.5 | 33.6 | 5.20 | 26.8 - 40.3 | 23.0 - 44.1 |
| Sodium | 161 | 133 | 2.76 | 95.1 - 171 | 46.5 - 220 |
| Strontium | 89.7 | 87.9 | 4.59 | 71.7 - 104 | 62.8 - 113 |
| Thallium | 121 | 112 | 5.19 | 90.3 - 133 | 76.1 - 147 |



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| Parameter | Certified Value[1] | Reference Value[7] | Uncertainty[2] | QC Performance Acceptance Limits[3] | PT Performance Acceptance Limits[4] |
|---|---|---|---|---|---|
| | mg/kg | mg/kg | % | mg/kg | mg/kg |
| Tin | 83.5 | 74.0 | 5.42 | 57.6 - 90.4 | 39.7 - 108 |
| Titanium | 474 | 333 | 7.17 | 48.6 - 617 | 46.3 - 620 |
| Uranium | 51.9 | 51.9 | 3.36 | 39.6 - 64.3 | 35.9 - 68.0 |
| Vanadium | 68.1 | 62.6 | 6.00 | 49.4 - 75.8 | 37.0 - 88.3 |
| Zinc | 165 | 158 | 2.34 | 128 - 188 | 111 - 205 |



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## ANALYTICAL VERIFICATION

| Parameter | Certified Value[1] | Proficiency Testing Study | | | NIST Traceability | |
|---|---|---|---|---|---|---|
| | | Mean | Recovery[5] | n | SRM Number[6] | Recovery |
| | mg/kg | mg/kg | % | | | % |
| Aluminum | 10100 | 8130 | 80.5 | 196 | - | - |
| Antimony | 259 | 134 | 51.8 | 217 | - | - |
| Arsenic | 171 | 156 | 91.3 | 243 | - | - |
| Barium | 253 | 239 | 94.3 | 230 | - | - |
| Beryllium | 179 | 169 | 94.6 | 223 | - | - |
| Boron | 114 | 87.5 | 76.7 | 150 | - | - |
| Cadmium | 149 | 137 | 91.8 | 249 | - | - |
| Calcium | 5190 | 4760 | 91.8 | 184 | - | - |
| Chromium | 163 | 154 | 94.4 | 245 | - | - |
| Cobalt | 127 | 121 | 95.3 | 221 | - | - |
| Copper | 57.0 | 54.9 | 96.2 | 243 | - | - |
| Iron | 15000 | 14100 | 93.9 | 199 | - | - |
| Lead | 133 | 130 | 97.7 | 251 | - | - |
| Magnesium | 2570 | 2320 | 90.1 | 182 | - | - |
| Manganese | 277 | 269 | 97.2 | 220 | - | - |
| Mercury | 21.6 | 20.5 | 94.7 | 172 | - | - |
| Molybdenum | 108 | 95.4 | 88.3 | 218 | - | - |
| Nickel | 58.7 | 53.9 | 91.8 | 242 | - | - |
| Potassium | 2420 | 2020 | 83.5 | 187 | - | - |
| Selenium | 181 | 167 | 92.2 | 235 | - | - |
| Silver | 35.5 | 33.6 | 94.5 | 222 | - | - |
| Sodium | 161 | 133 | 82.7 | 177 | - | - |
| Strontium | 89.7 | 87.9 | 98.0 | 151 | - | - |
| Thallium | 121 | 112 | 92.2 | 219 | - | - |
| Tin | 83.5 | 74.0 | 88.6 | 170 | - | - |
| Titanium | 474 | 333 | 70.3 | 157 | - | - |
| Uranium | 51.9 | 51.9 | 100 | 60 | - | - |
| Vanadium | 68.1 | 62.6 | 91.9 | 213 | - | - |
| Zinc | 165 | 158 | 95.8 | 238 | - | - |



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# ▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((Uchar^2) + (Uhomogen^2) + (ULTS^2) + (USTS^2) + (URSS^2))$

Where:

Uexpanded = Expanded uncertainty.
k = Coverage factor.
Uchar = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
Uhomogen = Standard uncertainty of the homogeneity assessment.
ULTS = Standard uncertainty associated with long-term stability.
USTS = Standard uncertainty associated with short-term (transport) stability.
URSS = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

**If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.**

**Certifying Officer** | **Quality Officer**

**Brian Miller** | **Matthew Seebeck**

Brian Miller

ISO/IEC 17025:2017 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02
ISO/IEC 17034:2016 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03



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ERA
A Waters Company

**Certified Reference Material**

# ▪ Certificate of Analysis ▪

**Product:** Metals in Soil
**Catalog Number:** 540
**Lot No.** D113-540
**Certificate Issue Date:** March 23, 2021
**Expiration Date:** October 13, 2024
**Revision Number:** Original

*Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.*

## CERTIFICATION

| Parameter | Certified Value[1] | Reference Value | Uncertainty[2] | QC Performance Acceptance Limits[3] | PT Performance Acceptance Limits[4] |
|---|---|---|---|---|---|
| | mg/kg | mg/kg | % | mg/kg | mg/kg |
| Aluminum | 10100 | 8630 | 12.0 | 4420 - 12800 | 4370 - 12900 |
| Antimony | 256 | 129 | 16.8 | 0.742 - 257 | 25.6 - 323 |
| Arsenic | 91.6 | 84.5 | 15.1 | 70.0 - 99.0 | 59.2 - 110 |
| Barium | 259 | 249 | 9.94 | 206 - 292 | 187 - 311 |
| Beryllium | 175 | 163 | 3.89 | 135 - 191 | 122 - 204 |
| Boron | 95.7 | 76.7 | 12.8 | 55.7 - 97.7 | 48.0 - 107 |
| Cadmium | 107 | 99.0 | 11.5 | 82.2 - 116 | 74.2 - 124 |
| Calcium | 5190 | 4760 | 11.8 | 3890 - 5640 | 3460 - 6070 |
| Chromium | 129 | 122 | 14.6 | 101 - 144 | 85.7 - 159 |
| Cobalt | 63.6 | 61.7 | 11.5 | 51.9 - 71.6 | 46.3 - 77.2 |
| Copper | 62.3 | 61.5 | 12.3 | 51.9 - 71.0 | 46.1 - 76.8 |
| Iron | 15000 | 14500 | 15.7 | 8860 - 20100 | 5190 - 23800 |
| Lead | 122 | 123 | 13.9 | 103 - 144 | 88.3 - 158 |
| Lithium | 6.42 | 7.30 | 18.7 | 5.13 - 9.48 | 3.20 - 11.4 |
| Magnesium | 2570 | 2360 | 8.87 | 1810 - 2920 | 1480 - 3250 |
| Manganese | 470 | 456 | 13.4 | 375 - 538 | 350 - 563 |
| Mercury | 22.1 | 18.9 | 14.5 | 13.0 - 24.8 | 11.3 - 26.4 |
| Molybdenum | 80.1 | 72.8 | 11.0 | 58.7 - 87.0 | 50.5 - 95.2 |
| Nickel | 143 | 135 | 14.2 | 112 - 158 | 94.7 - 176 |
| Potassium | 2420 | 2090 | 8.21 | 1480 - 2700 | 1240 - 2940 |
| Selenium | 128 | 121 | 11.7 | 96.9 - 146 | 80.4 - 162 |
| Silver | 45.4 | 44.1 | 6.69 | 35.5 - 52.8 | 30.7 - 57.6 |
| Sodium | 161 | 136 | 9.34 | 97.4 - 174 | 48.1 - 223 |
| Strontium | 82.2 | 82.3 | 8.42 | 67.4 - 97.1 | 58.6 - 106 |



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| Parameter | Certified Value[1] | Reference Value | Uncertainty[2] | QC Performance Acceptance Limits[3] | PT Performance Acceptance Limits[4] |
|---|---|---|---|---|---|
| | mg/kg | mg/kg | % | mg/kg | mg/kg |
| Thallium | 154 | 144 | 7.54 | 117 - 171 | 101 - 187 |
| Tin | 89.7 | 79.8 | 14.0 | 62.2 - 97.4 | 43.5 - 116 |
| Titanium | 705 | 546 | 10.3 | 123 - 969 | 118 - 974 |
| Uranium | 29.5 | 30.9 | 3.38 | 23.9 - 37.9 | 21.3 - 40.5 |
| Vanadium | 196 | 186 | 14.2 | 148 - 224 | 138 - 235 |
| Zinc | 307 | 295 | 10.4 | 240 - 351 | 207 - 384 |



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# Calculation of 6010B Metals

### Aqueous Samples

The instrument will calculate the concentration (µg/L). This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (\text{DF})$$

Where:

$C_s$ = Concentration of sample (µg/L)

DF = Dilution Factor

### Soil or Solid Samples

Soil samples are calculated as follows:

$$\text{Result, mg/Kg} = \frac{C_s \times (1\text{mg}/1000\mu\text{g}) \times (\text{DF})}{A}$$

Where:

$C_s$ = Concentration of sample (µg/L)

DF = Dilution Factor

$$A = \frac{\text{Sample weight (grams)}}{\text{Final Volume (mL)}}$$

### Dry weight correction

Dry weight correction is calculated as follows:

$$\text{Final concentration in mg/Kg, dry weight} = \frac{\text{Result, mg/Kg}}{\%_{solids}}$$

Where:

$\%_{solids}$ = Percent Solids, as a decimal value

# Sequence Trace 6

12/20/2024 9:57:41 AM

LabBook: WG2011242_12192024T6.imexp

| Index: | Label: | Rack | Vial | Start time: |
|---|---|---|---|---|
| 1 | Blank JMF Trace6 | 0 | 1 | 12/19/2024 9:03:39 AM |
| 2 | ICAL | 0 | 2 | 12/19/2024 9:10:23 AM |
| 3 | ICV | 0 | 3 | 12/19/2024 9:24:23 AM |
| 4 | ICB | 0 | 4 | 12/19/2024 9:30:48 AM |
| 5 | ICV | 0 | 10 | 12/19/2024 9:37:35 AM |
| 6 | ICB | 0 | 4 | 12/19/2024 9:44:03 AM |
| 7 | LLOQ RL Check | 0 | 5 | 12/19/2024 9:50:50 AM |
| 8 | ICSA | 0 | 6 | 12/19/2024 9:57:34 AM |
| 9 | SIC Cr Mn V Ti | 0 | 7 | 12/19/2024 10:06:30 AM |
| 10 | zLLOQ 0.01ppm | 1 | 1 | 12/19/2024 10:18:02 AM |
| 11 | LLOQ 0.005ppm As | 1 | 2 | 12/19/2024 10:24:45 AM |
| 12 | LDR 400 Fe pass | 1 | 3 | 12/19/2024 10:31:28 AM |
| 13 | LDR 800 Ca pass | 1 | 4 | 12/19/2024 10:39:18 AM |
| 14 | xLDR Check | 0 | 8 | 12/19/2024 10:47:08 AM |
| 15 | LDR Check | 0 | 8 | 12/19/2024 11:25:59 AM |
| 16 | LDR 20 As Pass | 1 | 5 | 12/19/2024 11:40:53 AM |
| 17 | LDR 5 Sb Pass | 1 | 6 | 12/19/2024 11:47:36 AM |
| 18 | CCV | 0 | 3 | 12/19/2024 12:02:48 PM |
| 19 | CCB | 0 | 4 | 12/19/2024 12:09:14 PM |
| 20 | WG2011116-1 WG2011116 | 1 | 7 | 12/19/2024 12:37:49 PM |
| 21 | WG2011116-2 WG2011116 | 1 | 8 | 12/19/2024 12:44:35 PM |
| 22 | L2472648-02 WG2011116 | 1 | 9 | 12/19/2024 12:50:59 PM |
| 23 | WG2011116-3 WG2011116 | 1 | 10 | 12/19/2024 12:57:41 PM |
| 24 | WG2011116-4 WG2011116 | 1 | 11 | 12/19/2024 1:04:06 PM |
| 25 | L2472648-04 WG2011116 | 1 | 12 | 12/19/2024 1:10:48 PM |
| 26 | L2472648-06 WG2011116 | 1 | 13 | 12/19/2024 1:17:30 PM |
| 27 | L2472649-02 WG2011116 | 1 | 14 | 12/19/2024 1:24:07 PM |
| 28 | L2472649-04 WG2011116 | 1 | 15 | 12/19/2024 1:30:47 PM |
| 29 | L2472649-06 WG2011116 | 1 | 16 | 12/19/2024 1:37:25 PM |
| 30 | CCV | 0 | 3 | 12/19/2024 1:44:04 PM |
| 31 | CCB | 0 | 4 | 12/19/2024 1:50:30 PM |
| 32 | L2472649-08 WG2011116 | 1 | 17 | 12/19/2024 2:02:39 PM |
| 33 | L2472649-10 WG2011116 | 1 | 18 | 12/19/2024 2:09:21 PM |
| 34 | L2472649-12 WG2011116 | 1 | 19 | 12/19/2024 2:15:59 PM |
| 35 | L2472939-01 WG2011116 | 1 | 20 | 12/19/2024 2:22:39 PM |
| 36 | CCV | 0 | 3 | 12/19/2024 2:29:21 PM |
| 37 | CCB | 0 | 4 | 12/19/2024 2:35:46 PM |
| 38 | WG2010972-1 WG2010972 | 1 | 21 | 12/19/2024 3:06:42 PM |
| 39 | L2473010-02 WG2010972 | 1 | 29 | 12/19/2024 3:13:27 PM |
| 40 | L2473251-03 WG2010972 | 1 | 39 | 12/19/2024 3:20:12 PM |
| 41 | L2473668-17 WG2010972 | 1 | 40 | 12/19/2024 3:26:56 PM |
| 42 | WG2010972-2 WG2010972 | 1 | 22 | 12/19/2024 3:33:41 PM |
| 43 | L2473051-01 WG2010972 | 1 | 23 | 12/19/2024 3:40:05 PM |
| 44 | WG2010972-3 WG2010972 | 1 | 24 | 12/19/2024 3:46:45 PM |
| 45 | WG2010972-4 WG2010972 | 1 | 25 | 12/19/2024 3:53:48 PM |
| 46 | WG2010972-5 WG2010972 | 1 | 26 | 12/19/2024 4:00:29 PM |
| 47 | WG2010972-6D5 WG2010972 | 1 | 27 | 12/19/2024 4:06:50 PM |
| 48 | CCV | 0 | 3 | 12/19/2024 4:13:30 PM |
| 49 | CCB | 0 | 4 | 12/19/2024 4:19:55 PM |
| 50 | L2473010-01 WG2010972 | 1 | 28 | 12/19/2024 4:32:28 PM |
| 51 | L2473010-03 WG2010972 | 1 | 30 | 12/19/2024 4:39:03 PM |
| 52 | L2473051-02 WG2010972 | 1 | 31 | 12/19/2024 4:45:48 PM |
| 53 | L2473062-01 WG2010972 | 1 | 32 | 12/19/2024 4:52:26 PM |
| 54 | L2473205-01 WG2010972 | 1 | 33 | 12/19/2024 4:59:14 PM |
| 55 | L2473205-02 WG2010972 | 1 | 34 | 12/19/2024 5:05:53 PM |
| 56 | L2473205-03 WG2010972 | 1 | 35 | 12/19/2024 5:12:32 PM |
| 57 | L2473205-04 WG2010972 | 1 | 36 | 12/19/2024 5:19:11 PM |
| 58 | L2473251-01 WG2010972 | 1 | 37 | 12/19/2024 5:26:11 PM |
| 59 | L2473251-02 WG2010972 | 1 | 38 | 12/19/2024 5:32:51 PM |
| 60 | CCV | 0 | 3 | 12/19/2024 5:40:06 PM |
| 61 | CCB | 0 | 4 | 12/19/2024 5:46:59 PM |
| 62 | WG2010950-1 WG2010950 | 1 | 41 | 12/19/2024 6:06:40 PM |
| 63 | WG2010950-2 WG2010950 | 1 | 42 | 12/19/2024 6:13:27 PM |
| 64 | L2473067-01 WG2010950 | 1 | 48 | 12/19/2024 6:19:51 PM |
| 65 | L2473069-01 WG2010950 | 1 | 49 | 12/19/2024 6:27:11 PM |
| 66 | L2473492-01 WG2010950 | 1 | 50 | 12/19/2024 6:34:03 PM |
| 67 | L2473872-01 WG2010950 | 1 | 43 | 12/19/2024 6:40:41 PM |
| 68 | WG2010950-3 WG2010950 | 1 | 44 | 12/19/2024 6:47:20 PM |
| 69 | WG2010950-4 WG2010950 | 1 | 45 | 12/19/2024 6:53:43 PM |
| 70 | WG2010950-5 WG2010950 | 1 | 46 | 12/19/2024 7:00:25 PM |
| 71 | WG2010950-6D5 WG2010950 | 1 | 47 | 12/19/2024 7:06:48 PM |
| 72 | CCV | 0 | 3 | 12/19/2024 7:13:33 PM |

# Sequence Trace 6

12/20/2024 9:57:41 AM

| Index: | Label: | Rack | Vial | Start time: |
|---|---|---|---|---|
| 73 | CCB | 0 | 4 | 12/19/2024 7:19:58 PM |
| 74 | WG2010915-1 WG2010915 | 1 | 51 | 12/19/2024 8:03:49 PM |
| 75 | WG2010915-2 WG2010915 | 1 | 52 | 12/19/2024 8:10:33 PM |
| 76 | L2473538-02 WG2010915 | 2 | 4 | 12/19/2024 8:16:55 PM |
| 77 | L2473538-03 WG2010915 | 2 | 5 | 12/19/2024 8:23:35 PM |
| 78 | L2473538-01 WG2010915 | 2 | 3 | 12/19/2024 8:30:14 PM |
| 79 | L2474304-01 WG2010915 | 1 | 53 | 12/19/2024 8:36:53 PM |
| 80 | WG2010915-3 WG2010915 | 1 | 54 | 12/19/2024 8:43:30 PM |
| 81 | WG2010915-4 WG2010915 | 1 | 55 | 12/19/2024 8:49:51 PM |
| 82 | WG2010915-5 WG2010915 | 1 | 56 | 12/19/2024 8:56:29 PM |
| 83 | WG2010915-6d5 WG2010915 | 1 | 57 | 12/19/2024 9:02:51 PM |
| 84 | CCV | 0 | 3 | 12/19/2024 9:09:30 PM |
| 85 | CCB | 0 | 4 | 12/19/2024 9:15:56 PM |
| 86 | CCV | 0 | 3 | 12/19/2024 9:50:36 PM |
| 87 | CCB | 0 | 4 | 12/19/2024 9:57:01 PM |
| 88 | L2473538-04 WG2010915 | 2 | 6 | 12/19/2024 10:09:08 PM |
| 89 | L2473538-05 WG2010915 | 2 | 7 | 12/19/2024 10:15:49 PM |
| 90 | L2473642-01 WG2010915 | 2 | 8 | 12/19/2024 10:22:28 PM |
| 91 | L2473756-01 WG2010915 | 2 | 9 | 12/19/2024 10:29:08 PM |
| 92 | L2474329-01 WG2010915 | 2 | 10 | 12/19/2024 10:35:45 PM |
| 93 | L2474304-02 WG2010915 | 1 | 58 | 12/19/2024 10:42:26 PM |
| 94 | WG2010915-7 WG2010915 | 1 | 59 | 12/19/2024 10:49:07 PM |
| 95 | WG2010915-8 WG2010915 | 1 | 60 | 12/19/2024 10:55:32 PM |
| 96 | WG2010915-9 WG2010915 | 2 | 1 | 12/19/2024 11:02:14 PM |
| 97 | WG2010915-10d5 WG2010915 | 2 | 2 | 12/19/2024 11:08:38 PM |
| 98 | CCV | 0 | 3 | 12/19/2024 11:15:18 PM |
| 99 | CCB | 0 | 4 | 12/19/2024 11:21:44 PM |
| 100 | L2474329-02 WG2010915 | 2 | 11 | 12/19/2024 11:28:31 PM |
| 101 | L2474329-03 WG2010915 | 2 | 12 | 12/19/2024 11:35:11 PM |
| 102 | L2474329-04 WG2010915 | 2 | 13 | 12/19/2024 11:41:52 PM |
| 103 | L2474329-05 WG2010915 | 2 | 14 | 12/19/2024 11:48:32 PM |
| 104 | CCV | 0 | 3 | 12/19/2024 11:55:17 PM |
| 105 | CCB | 0 | 4 | 12/20/2024 12:01:43 AM |
| 106 | CCV | 0 | 3 | 12/20/2024 12:08:30 AM |
| 107 | CCB | 0 | 4 | 12/20/2024 12:14:55 AM |
| 108 | LLOQ RL check | 0 | 5 | 12/20/2024 12:21:40 AM |

# Sequence Trace 8
12/24/2024 9:27:59 AM

LabBook: WG2012543_12232124T8.imexp

## Summary

| Index | Label | Rack | Vial | Started at |
|---|---|---|---|---|
| 1 | Blank DMC Trace8 | 0 | 1 | 12/23/2024 5:35:51 AM |
| 2 | ICAL | 0 | 2 | 12/23/2024 5:40:05 AM |
| 3 | ICV | 0 | 3 | 12/23/2024 5:44:27 AM |
| 4 | ICB | 0 | 4 | 12/23/2024 5:48:51 AM |
| 5 | ICV | 0 | 10 | 12/23/2024 5:56:34 AM |
| 6 | ICB | 0 | 4 | 12/23/2024 6:01:07 AM |
| 7 | LLOQ | 0 | 5 | 12/23/2024 6:05:31 AM |
| 8 | ICSA | 0 | 6 | 12/23/2024 6:09:56 AM |
| 9 | SIC Multi (ICSA CARRY OVER) | 0 | 7 | 12/23/2024 6:15:23 AM |
| 10 | LDR Check | 0 | 8 | 12/23/2024 6:20:22 AM |
| 11 | LLOQ 0.005ppm As | 1 | 1 | 12/23/2024 6:46:43 AM |
| 12 | zLLOQ 0.01ppm | 1 | 2 | 12/23/2024 6:51:18 AM |
| 13 | LDR 500PPM Fe pass | 1 | 3 | 12/23/2024 6:55:42 AM |
| 14 | LDR 1000PPM Ca pass | 1 | 4 | 12/23/2024 7:01:06 AM |
| 15 | CCV | 0 | 3 | 12/23/2024 7:33:07 AM |
| 16 | CCB | 0 | 4 | 12/23/2024 7:37:38 AM |
| 17 | L2473791-66D2 WG2010931 | 1 | 5 | 12/23/2024 7:49:54 AM |
| 18 | L2473880-04D2 WG2010931 | 1 | 6 | 12/23/2024 7:54:25 AM |
| 19 | L2473880-07D2 WG2010931 | 1 | 7 | 12/23/2024 7:58:50 AM |
| 20 | L2473887-03D2 WG2010931 | 1 | 8 | 12/23/2024 8:03:15 AM |
| 21 | L2473887-04D2 WG2010931 | 1 | 9 | 12/23/2024 8:07:41 AM |
| 22 | L2473887-05D2 WG2010931 | 1 | 10 | 12/23/2024 8:12:06 AM |
| 23 | L2473887-06D2 WG2010931 | 1 | 11 | 12/23/2024 8:16:32 AM |
| 24 | L2473887-09D2 WG2010931 | 1 | 12 | 12/23/2024 8:20:58 AM |
| 25 | L2473887-13D2 WG2010931 | 1 | 13 | 12/23/2024 8:25:25 AM |
| 26 | L2473887-16D2 WG2010931 | 1 | 14 | 12/23/2024 8:29:47 AM |
| 27 | CCV | 0 | 3 | 12/23/2024 8:34:10 AM |
| 28 | CCB | 0 | 4 | 12/23/2024 8:38:34 AM |
| 29 | L2473931-01D2 WG2010931 | 1 | 15 | 12/23/2024 8:48:05 AM |
| 30 | L2473931-02D2 WG2010931 | 1 | 16 | 12/23/2024 8:52:34 AM |
| 31 | L2473931-03D2 WG2010931 | 1 | 17 | 12/23/2024 8:56:58 AM |
| 32 | L2473931-04D2 WG2010931 | 1 | 18 | 12/23/2024 9:01:21 AM |
| 33 | L2473931-10D2 WG2010931 | 1 | 19 | 12/23/2024 9:05:46 AM |
| 34 | L2474172-01D2 WG2010931 | 1 | 20 | 12/23/2024 9:10:10 AM |
| 35 | L2474172-02D2 WG2010931 | 1 | 21 | 12/23/2024 9:14:35 AM |
| 36 | L2473887-05D4 WG2010931 | 1 | 22 | 12/23/2024 9:18:59 AM |
| 37 | CCV | 0 | 3 | 12/23/2024 9:33:00 AM |
| 38 | CCB | 0 | 4 | 12/23/2024 9:37:31 AM |
| 39 | WG2012440-1 WG2012440 | 1 | 26 | 12/23/2024 9:51:21 AM |
| 40 | WG2012440-2 WG2012440 | 1 | 27 | 12/23/2024 9:55:58 AM |
| 41 | L2472163-03 WG2010950 | 1 | 23 | 12/23/2024 10:00:21 AM |
| 42 | L2473734-01 WG2010950 | 1 | 24 | 12/23/2024 10:04:46 AM |
| 43 | L2473747-01 WG2010950 | 1 | 25 | 12/23/2024 10:09:13 AM |
| 44 | L2473927-01 WG2012440 | 1 | 28 | 12/23/2024 10:13:36 AM |
| 45 | WG2012440-3 WG2012440 | 1 | 29 | 12/23/2024 10:17:59 AM |
| 46 | WG2012440-4 WG2012440 | 1 | 30 | 12/23/2024 10:22:23 AM |
| 47 | WG2012440-5 WG2012440 | 1 | 31 | 12/23/2024 10:26:48 AM |
| 48 | WG2012440-6d5 WG2012440 | 1 | 32 | 12/23/2024 10:31:12 AM |
| 49 | CCV | 0 | 3 | 12/23/2024 10:35:37 AM |
| 50 | CCB | 0 | 4 | 12/23/2024 10:40:01 AM |
| 51 | CCV | 0 | 3 | 12/23/2024 10:45:39 AM |
| 52 | CCB | 0 | 4 | 12/23/2024 10:50:07 AM |
| 53 | L2473391-01 WG2012440 | 1 | 38 | 12/23/2024 10:54:32 AM |
| 54 | L2473393-01 WG2012440 | 1 | 39 | 12/23/2024 10:58:55 AM |
| 55 | L2473927-02 WG2012440 | 1 | 40 | 12/23/2024 11:03:19 AM |
| 56 | L2474052-01 WG2012440 | 1 | 41 | 12/23/2024 11:07:42 AM |
| 57 | L2474281-09 WG2012440 | 1 | 42 | 12/23/2024 11:12:06 AM |
| 58 | L2473893-07 WG2012440 | 1 | 33 | 12/23/2024 11:16:30 AM |
| 59 | WG2012440-7 WG2012440 | 1 | 34 | 12/23/2024 11:20:55 AM |
| 60 | WG2012440-8 WG2012440 | 1 | 35 | 12/23/2024 11:25:23 AM |
| 61 | WG2012440-9 WG2012440 | 1 | 36 | 12/23/2024 11:29:49 AM |
| 62 | WG2012440-10d5 WG2012440 | 1 | 37 | 12/23/2024 11:34:15 AM |
| 63 | CCV | 0 | 3 | 12/23/2024 11:38:38 AM |
| 64 | CCB | 0 | 4 | 12/23/2024 11:43:03 AM |
| 65 | WG2012266-1 WG2012266 | 1 | 49 | 12/23/2024 11:49:52 AM |
| 66 | WG2012266-2 WG2012266 | 1 | 50 | 12/23/2024 11:54:22 AM |
| 67 | L2473740-02 WG2012266 | 1 | 56 | 12/23/2024 11:58:46 AM |
| 68 | L2473740-03 WG2012266 | 1 | 57 | 12/23/2024 12:03:11 PM |

# Sequence Trace 8
12/24/2024 9:27:59 AM

| Index | Label | Rack | Vial | Started at |
|---|---|---|---|---|
| 69 | L2473740-04 WG2012266 | 1 | 58 | 12/23/2024 12:07:37 PM |
| 70 | L2473740-01 WG2012266 | 1 | 51 | 12/23/2024 12:12:03 PM |
| 71 | WG2012266-7 WG2012266 | 1 | 52 | 12/23/2024 12:16:27 PM |
| 72 | WG2012266-8 WG2012266 | 1 | 53 | 12/23/2024 12:20:51 PM |
| 73 | WG2012266-9 WG2012266 | 1 | 54 | 12/23/2024 12:25:16 PM |
| 74 | WG2012266-10D5 WG2012266 | 1 | 55 | 12/23/2024 12:29:40 PM |
| 75 | CCV | 0 | 3 | 12/23/2024 12:34:05 PM |
| 76 | CCB | 0 | 4 | 12/23/2024 12:38:30 PM |
| 77 | CCV | 0 | 3 | 12/23/2024 12:43:37 PM |
| 78 | CCB | 0 | 4 | 12/23/2024 12:48:02 PM |
| 79 | L2473740-05 WG2012266 | 1 | 59 | 12/23/2024 12:57:54 PM |
| 80 | L2473740-06 WG2012266 | 1 | 60 | 12/23/2024 1:02:38 PM |
| 81 | L2473740-07 WG2012266 | 2 | 1 | 12/23/2024 1:07:05 PM |
| 82 | L2473740-08 WG2012266 | 2 | 2 | 12/23/2024 1:11:30 PM |
| 83 | L2473740-09 WG2012266 | 2 | 3 | 12/23/2024 1:15:55 PM |
| 84 | L2473740-10 WG2012266 | 2 | 4 | 12/23/2024 1:20:20 PM |
| 85 | L2473740-11 WG2012266 | 2 | 5 | 12/23/2024 1:24:45 PM |
| 86 | L2473740-12 WG2012266 | 2 | 6 | 12/23/2024 1:29:10 PM |
| 87 | L2473740-13 WG2012266 | 2 | 7 | 12/23/2024 1:33:35 PM |
| 88 | L2473740-14 WG2012266 | 2 | 8 | 12/23/2024 1:38:00 PM |
| 89 | CCV | 0 | 3 | 12/23/2024 1:42:25 PM |
| 90 | CCB | 0 | 4 | 12/23/2024 1:46:50 PM |
| 91 | L2473740-15 WG2012266 | 2 | 9 | 12/23/2024 2:01:06 PM |
| 92 | L2473740-16 WG2012266 | 2 | 10 | 12/23/2024 2:05:38 PM |
| 93 | L2474281-11 WG2012440 | 1 | 43 | 12/23/2024 2:10:04 PM |
| 94 | L2474329-01 WG2012440 | 1 | 44 | 12/23/2024 2:14:30 PM |
| 95 | L2474329-02 WG2012440 | 1 | 45 | 12/23/2024 2:18:56 PM |
| 96 | L2474329-03 WG2012440 | 1 | 46 | 12/23/2024 2:23:25 PM |
| 97 | L2474329-04 WG2012440 | 1 | 47 | 12/23/2024 2:27:52 PM |
| 98 | L2474329-05 WG2012440 | 1 | 48 | 12/23/2024 2:32:19 PM |
| 99 | CCV | 0 | 3 | 12/23/2024 2:36:46 PM |
| 100 | CCB | 0 | 4 | 12/23/2024 2:41:11 PM |
| 101 | WG2012229-1 WG2012229 | 2 | 11 | 12/23/2024 2:50:07 PM |
| 102 | WG2012229-2 WG2012229 | 2 | 12 | 12/23/2024 2:54:52 PM |
| 103 | L2473377-01 WG2012229 | 2 | 13 | 12/23/2024 2:59:19 PM |
| 104 | WG2012229-3 WG2012229 | 2 | 14 | 12/23/2024 3:03:44 PM |
| 105 | WG2012229-4 WG2012229 | 2 | 15 | 12/23/2024 3:08:10 PM |
| 106 | CCV | 0 | 3 | 12/23/2024 3:22:54 PM |
| 107 | CCB | 0 | 4 | 12/23/2024 3:27:26 PM |
| 108 | WG2012426-1 WG2012426 | 2 | 16 | 12/23/2024 3:35:32 PM |
| 109 | WG2012426-2 WG2012426 | 2 | 17 | 12/23/2024 3:40:04 PM |
| 110 | L2473927-02 WG2012426 | 2 | 25 | 12/23/2024 3:44:29 PM |
| 111 | L2473927-01 WG2012426 | 2 | 24 | 12/23/2024 3:51:56 PM |
| 112 | L2473738-01 WG2012426 | 2 | 23 | 12/23/2024 3:56:43 PM |
| 113 | L2474716-01 WG2012426 | 2 | 18 | 12/23/2024 4:01:11 PM |
| 114 | WG2012426-3 WG2012426 | 2 | 19 | 12/23/2024 4:05:38 PM |
| 115 | WG2012426-4 WG2012426 | 2 | 20 | 12/23/2024 4:10:05 PM |
| 116 | WG2012426-5 WG2012426 | 2 | 21 | 12/23/2024 4:14:32 PM |
| 117 | WG2012426-6d5 WG2012426 | 2 | 22 | 12/23/2024 4:19:02 PM |
| 118 | CCV | 0 | 3 | 12/23/2024 4:23:30 PM |
| 119 | CCB | 0 | 4 | 12/23/2024 4:27:57 PM |
| 120 | L2474716-02 WG2012426 | 2 | 26 | 12/23/2024 4:33:21 PM |
| 121 | L2474717-01 WG2012426 | 2 | 27 | 12/23/2024 4:37:52 PM |
| 122 | L2474717-02 WG2012426 | 2 | 28 | 12/23/2024 4:42:20 PM |
| 123 | CCV | 0 | 3 | 12/23/2024 4:49:32 PM |
| 124 | CCB | 0 | 4 | 12/23/2024 4:54:05 PM |
| 125 | WG2012713-1 WG2012713 | 2 | 29 | 12/23/2024 5:09:31 PM |
| 126 | WG2012713-2d2 WG2012713 | 2 | 30 | 12/23/2024 5:14:15 PM |
| 127 | WG2012713-3d2 WG2012713 | 2 | 31 | 12/23/2024 5:18:41 PM |
| 128 | L2474309-01d2 WG2012713 | 2 | 32 | 12/23/2024 5:23:07 PM |
| 129 | L2474309-02d2 WG2012713 | 2 | 33 | 12/23/2024 5:27:34 PM |
| 130 | L2474309-03d2 WG2012713 | 2 | 34 | 12/23/2024 5:32:00 PM |
| 131 | L2474309-04d2 WG2012713 | 2 | 35 | 12/23/2024 5:36:27 PM |
| 132 | L2474309-05d2 WG2012713 | 2 | 36 | 12/23/2024 5:40:54 PM |
| 133 | L2474309-06d2 WG2012713 | 2 | 37 | 12/23/2024 5:45:22 PM |
| 134 | L2474309-07d2 WG2012713 | 2 | 38 | 12/23/2024 5:49:48 PM |
| 135 | CCV | 0 | 3 | 12/23/2024 5:55:11 PM |
| 136 | CCB | 0 | 4 | 12/23/2024 5:59:40 PM |
| 137 | OB scan L2473927-02 | 2 | 47 | 12/23/2024 6:04:29 PM |
| 138 | L2474309-08d2 WG2012713 | 2 | 39 | 12/23/2024 6:17:20 PM |
| 139 | L2474309-09d2 WG2012713 | 2 | 40 | 12/23/2024 6:21:53 PM |
| 140 | L2474309-10d2 WG2012713 | 2 | 41 | 12/23/2024 6:26:20 PM |
| 141 | L2474309-11d2 WG2012713 | 2 | 42 | 12/23/2024 6:30:48 PM |
| 142 | L2474309-12d2 WG2012713 | 2 | 43 | 12/23/2024 6:35:14 PM |

# Sequence Trace 8

12/24/2024 9:27:59 AM

| Index | Label | Rack | Vial | Started at |
|---|---|---|---|---|
| 143 | L2474309-13d2 WG2012713 | 2 | 44 | 12/23/2024 6:39:41 PM |
| 144 | L2474309-14d2 WG2012713 | 2 | 45 | 12/23/2024 6:44:08 PM |
| 145 | L2474309-15d2 WG2012713 | 2 | 46 | 12/23/2024 6:48:35 PM |
| 146 | CCV | 0 | 3 | 12/23/2024 6:53:02 PM |
| 147 | CCB | 0 | 4 | 12/23/2024 6:57:28 PM |
| 148 | WG2012730-1 WG2012730 | 2 | 48 | 12/23/2024 7:14:41 PM |
| 149 | WG2012730-2 WG2012730 | 2 | 49 | 12/23/2024 7:19:25 PM |
| 150 | L2475241-02 WG2012730 | 2 | 50 | 12/23/2024 7:23:54 PM |
| 151 | WG2012730-3 WG2012730 | 2 | 51 | 12/23/2024 7:28:44 PM |
| 152 | WG2012730-4 WG2012730 | 2 | 52 | 12/23/2024 7:33:23 PM |
| 153 | L2475241-04 WG2012730 | 2 | 53 | 12/23/2024 7:37:50 PM |
| 154 | L2475241-06 WG2012730 | 2 | 54 | 12/23/2024 7:42:17 PM |
| 155 | L2475101-10 WG2011905 | 2 | 57 | 12/23/2024 7:47:21 PM |
| 156 | L2475101-04 WG2011905 | 2 | 55 | 12/23/2024 7:51:49 PM |
| 157 | L2475101-07 WG2011905 | 2 | 56 | 12/23/2024 7:56:16 PM |
| 158 | CCV | 0 | 3 | 12/23/2024 8:02:16 PM |
| 159 | CCB | 0 | 4 | 12/23/2024 8:06:46 PM |
| 160 | WG2012774-1 WG2012774 | 2 | 58 | 12/23/2024 8:22:00 PM |
| 161 | WG2012774-2 WG2012774 | 2 | 59 | 12/23/2024 8:26:35 PM |
| 162 | L2474270-02 WG2012774 | 3 | 7 | 12/23/2024 8:31:02 PM |
| 163 | L2474270-01 WG2012774 | 3 | 6 | 12/23/2024 8:35:30 PM |
| 164 | L2474146-01 WG2012774 | 3 | 5 | 12/23/2024 8:39:59 PM |
| 165 | L2474293-01 WG2012774 | 2 | 60 | 12/23/2024 8:49:38 PM |
| 166 | WG2012774-3 WG2012774 | 3 | 1 | 12/23/2024 8:54:22 PM |
| 167 | WG2012774-4 WG2012774 | 3 | 2 | 12/23/2024 8:58:50 PM |
| 168 | WG2012774-5 WG2012774 | 3 | 3 | 12/23/2024 9:03:18 PM |
| 169 | WG2012774-6d5 WG2012774 | 3 | 4 | 12/23/2024 9:07:47 PM |
| 170 | CCV | 0 | 3 | 12/23/2024 9:13:36 PM |
| 171 | CCB | 0 | 4 | 12/23/2024 9:25:29 PM |
| 172 | L2474278-01 WG2012774 | 3 | 8 | 12/23/2024 9:39:37 PM |
| 173 | L2474278-02 WG2012774 | 3 | 9 | 12/23/2024 9:44:11 PM |
| 174 | L2474278-03 WG2012774 | 3 | 10 | 12/23/2024 9:48:40 PM |
| 175 | L2474294-01 WG2012774 | 3 | 11 | 12/23/2024 9:53:08 PM |
| 176 | L2474295-01 WG2012774 | 3 | 12 | 12/23/2024 9:57:37 PM |
| 177 | CCV | 0 | 3 | 12/23/2024 10:04:54 PM |
| 178 | CCB | 0 | 4 | 12/23/2024 10:09:27 PM |
| 179 | WG2012740-1 WG2012740 | 3 | 13 | 12/23/2024 10:29:26 PM |
| 180 | WG2012740-2 WG2012740 | 3 | 14 | 12/23/2024 10:34:21 PM |
| 181 | L2474083-01d2 WG2012740 | 3 | 39 | 12/23/2024 10:38:50 PM |
| 182 | L2473839-01 WG2012740 | 3 | 15 | 12/23/2024 10:43:20 PM |
| 183 | WG2012740-3 WG2012740 | 3 | 16 | 12/23/2024 10:47:49 PM |
| 184 | WG2012740-4 WG2012740 | 3 | 17 | 12/23/2024 10:52:18 PM |
| 185 | WG2012740-5 WG2012740 | 3 | 18 | 12/23/2024 10:56:47 PM |
| 186 | WG2012740-6d5 WG2012740 | 3 | 19 | 12/23/2024 11:01:18 PM |
| 187 | CCV | 0 | 3 | 12/23/2024 11:05:46 PM |
| 188 | CCB | 0 | 4 | 12/23/2024 11:10:13 PM |
| 189 | L2474240-01 WG2012740 | 3 | 42 | 12/23/2024 11:14:41 PM |
| 190 | L2474089-01 WG2012740 | 3 | 41 | 12/23/2024 11:19:10 PM |
| 191 | L2474087-01 WG2012740 | 3 | 40 | 12/23/2024 11:23:39 PM |
| 192 | L2473876-01 WG2012740 | 3 | 20 | 12/23/2024 11:28:09 PM |
| 193 | WG2012740-7 WG2012740 | 3 | 21 | 12/23/2024 11:32:37 PM |
| 194 | WG2012740-8 WG2012740 | 3 | 22 | 12/23/2024 11:37:06 PM |
| 195 | WG2012740-9 WG2012740 | 3 | 23 | 12/23/2024 11:41:35 PM |
| 196 | WG2012740-10d5 WG2012740 | 3 | 24 | 12/23/2024 11:46:03 PM |
| 197 | CCV | 0 | 3 | 12/23/2024 11:50:32 PM |
| 198 | CCB | 0 | 4 | 12/23/2024 11:54:59 PM |
| 199 | L2474004-01d2 WG2012740 | 3 | 25 | 12/23/2024 11:59:27 PM |
| 200 | L2474004-02d2 WG2012740 | 3 | 26 | 12/24/2024 12:03:56 AM |
| 201 | L2474004-03d2 WG2012740 | 3 | 27 | 12/24/2024 12:08:25 AM |
| 202 | L2474004-04d2 WG2012740 | 3 | 28 | 12/24/2024 12:12:54 AM |
| 203 | L2474004-05d2 WG2012740 | 3 | 29 | 12/24/2024 12:17:23 AM |
| 204 | L2474004-06d2 WG2012740 | 3 | 30 | 12/24/2024 12:21:52 AM |
| 205 | L2474004-07d2 WG2012740 | 3 | 31 | 12/24/2024 12:26:20 AM |
| 206 | L2474004-08d2 WG2012740 | 3 | 32 | 12/24/2024 12:30:49 AM |
| 207 | L2474004-09d2 WG2012740 | 3 | 33 | 12/24/2024 12:35:19 AM |
| 208 | L2474004-10d2 WG2012740 | 3 | 34 | 12/24/2024 12:39:48 AM |
| 209 | CCV | 0 | 3 | 12/24/2024 12:44:17 AM |
| 210 | CCB | 0 | 4 | 12/24/2024 12:48:44 AM |
| 211 | L2474004-11d2 WG2012740 | 3 | 35 | 12/24/2024 12:53:12 AM |
| 212 | L2474004-12d2 WG2012740 | 3 | 36 | 12/24/2024 12:57:41 AM |
| 213 | L2474004-13d2 WG2012740 | 3 | 37 | 12/24/2024 1:02:10 AM |
| 214 | L2474004-14d2 WG2012740 | 3 | 38 | 12/24/2024 1:06:40 AM |
| 215 | CCV | 0 | 3 | 12/24/2024 1:11:09 AM |
| 216 | CCB | 0 | 4 | 12/24/2024 1:15:37 AM |

# Sequence Trace 8

12/24/2024 9:27:59 AM

| Index | Label | Rack | Vial | Started at |
|---|---|---|---|---|
| 217 | CCV | 0 | 3 | 12/24/2024 1:20:05 AM |
| 218 | CCB | 0 | 4 | 12/24/2024 1:24:32 AM |
| 219 | LLOQ | 0 | 5 | 12/24/2024 1:29:00 AM |

# METALS ELN REPORT

**Workgroup:** **WG2010915**

## 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 | tHNO324490 70855EFM | 1:1 HCl | tHCL244614 0154FAC | METALS | METSPIKE2 | IPS, FPS, MIX | METSPIKE2 | IPS, FPS, MIX | 140, 326 |

**Additional Reagent/Std**

| Sample/ Type | Digestion Date | Analyst | Sample Vol ml | Ph | Spike Amt ml | Start Date/Time | Hot Block Unit | Temperature (C) | Stop Date/Time | Final Vol | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| L2473538-01 SAMP | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |
| L2473538-02 SAMP | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |
| L2473538-03 SAMP | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |
| L2473538-04 SAMP | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |
| L2473538-05 SAMP | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |
| L2473642-01 SAMP | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |
| L2473756-01 WATER | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |
| L2474304-01 SAMP | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |
| L2474304-02 SAMP | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |
| L2474329-01 SAMP | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |



Reported: 23-DEC-24 04:06 PM

# METALS ELN REPORT

**Workgroup: WG2010915**

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| L2474329-02 SAMP | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |
| L2474329-03 SAMP | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |
| L2474329-04 SAMP | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |
| L2474329-05 SAMP | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |
| WG2010915-1 BLANK | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | FM2420141420 EFM |
| WG2010915-2 LCS | 12/18/24 18:46 | Nathan Downs | 50 | <2 | 0.5 | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | ELN: CLH |
| WG2010915-3 MS | 12/18/24 18:46 | Nathan Downs | 50 | <2 | 0.5 | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |
| WG2010915-4 DUP | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |
| WG2010915-5 PS | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |
| WG2010915-6 SERDIL | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |
| WG2010915-7 MS | 12/18/24 18:46 | Nathan Downs | 50 | <2 | 0.5 | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |
| WG2010915-8 DUP | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |



Reported: 23-DEC-24 04:06 PM

# METALS ELN REPORT

**Workgroup: WG2010915**

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WG2010915-9 PS | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | |
| WG2010915-10 SERDIL | 12/18/24 18:46 | Nathan Downs | 50 | <2 | | 12/18/24 18:46 | 7 | 95.2 | 12/18/24 21:46 | 50 | IPS2448251348CME |

| Reagent | Actual Volume | Units |
|---|---|---|
| 1:1 Hydrochloric Acid (H | .5 | ml |
| 1:1 Nitric Acid (HNO3) | 1 | ml |



Reported: 23-DEC-24 04:06 PM

# METALS ELN REPORT

**Workgroup: WG2012440**

## 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 | tHNO324501 21139JDH | 1:1 HCl | tHCL245119 1525NDD | METALS | METSPIKE2 | IPS, FPS, MIX | METSPIKE2 | IPS, FPS, MIX | 140, 326 |

**Additional Reagent/Std**

| Sample/ Type | Digestion Date | Analyst | Lab Filtration Date | Sample Vol ml | Ph | Spike Amt | Start Date/Time | Hot Block Unit | Temperature (C) | Stop Date/Time | Final Vol ml | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L2473391-01 SAMP | 12/22/24 17:51 | Maisie Mcqueen | 12-14-24 10:55 | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |
| L2473393-01 SAMP | 12/22/24 17:51 | Maisie Mcqueen | 12-14-24 10:55 | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |
| L2473893-07 SAMP | 12/22/24 17:51 | Maisie Mcqueen | NA | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |
| L2473927-01 SAMP | 12/22/24 17:51 | Maisie Mcqueen | 12-18-24 10:57 | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |
| L2473927-02 SAMP | 12/22/24 17:51 | Maisie Mcqueen | 12-18-24 10:57 | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |
| L2474052-01 SAMP | 12/22/24 17:51 | Maisie Mcqueen | 12-18-24 22:48 | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |
| L2474281-09 SAMP | 12/22/24 17:51 | Maisie Mcqueen | NA | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |
| L2474281-11 SAMP | 12/22/24 17:51 | Maisie Mcqueen | NA | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |
| L2474329-01 SAMP | 12/22/24 17:51 | Maisie Mcqueen | NA | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |
| L2474329-02 SAMP | 12/22/24 17:51 | Maisie Mcqueen | NA | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |



Reported: 23-DEC-24 04:06 PM

# METALS ELN REPORT

**Workgroup: WG2012440**

| **Sample/ Type** | Digestion Date | Analyst | Lab Filtration Date | Sample Vol | Ph | Spike Amt **ml** | Start Date/Time | Hot Block Unit | Temperature (C) | Stop Date/Time | Final Vol **ml** | **Comments** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L2474329-03 SAMP | 12/22/24 17:51 | Maisie Mcqueen | NA | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |
| L2474329-04 SAMP | 12/22/24 17:51 | Maisie Mcqueen | NA | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |
| L2474329-05 SAMP | 12/22/24 17:51 | Maisie Mcqueen | NA | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |
| WG2012440-1 BLANK | 12/22/24 17:51 | Maisie Mcqueen | 12/18/24 10:57 | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | FM2420141420 EFM |
| WG2012440-2 LCS | 12/22/24 17:51 | Maisie Mcqueen | NA | 50 | <2 | 0.5 | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | ELN:ajt |
| WG2012440-3 MS | 12/22/24 17:51 | Maisie Mcqueen | NA | 50 | <2 | 0.5 | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |
| WG2012440-4 DUP | 12/22/24 17:51 | Maisie Mcqueen | NA | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |
| WG2012440-5 PS | 12/22/24 17:51 | Maisie Mcqueen | NA | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |
| WG2012440-6 SERDIL | 12/22/24 17:51 | Maisie Mcqueen | NA | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |
| WG2012440-7 MS | 12/22/24 17:51 | Maisie Mcqueen | NA | 50 | <2 | 0.5 | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |
| WG2012440-8 DUP | 12/22/24 17:51 | Maisie Mcqueen | NA | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |
| WG2012440-9 PS | 12/22/24 17:51 | Maisie Mcqueen | NA | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | |



Reported: 23-DEC-24 04:06 PM

# METALS ELN REPORT

**Workgroup: WG2012440**

| **Sample/ Type** | Digestion Date | Analyst | Lab Filtration Date | Sample Vol | Ph | Spike Amt **ml** | Start Date/Time | Hot Block Unit | Temperature (C) | Stop Date/Time | Final Vol **ml** | **Comments** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WG2012440-10 SERDIL | 12/22/24 17:51 | Maisie Mcqueen | NA | 50 | <2 | | 12/22/24 17:51 | 7 | 94.8 | 12/22/24 20:51 | 50 | IPS2448251348CME |

| **Reagent** | **Actual Volume** | **Units** |
|---|---|---|
| 1:1 Hydrochloric Acid (H | .5 | ml |
| 1:1 Nitric Acid (HNO3) | 1 | ml |



Reported: 23-DEC-24 04:06 PM

# Inorganic Data
# (Mercury Analysis)

# Form 1
# METALS

| | | | | |
|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : | L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : | 2232.0006Y005 |
| **Lab ID** | : L2474329-01 | **Date Collected** | : | 12/16/24 11:00 |
| **Client ID** | : MW-4S | **Date Received** | : | 12/17/24 |
| **Sample Location** | : 416 MILLER PLACE-YAPHANK ROAD | **Date Analyzed** | : | 12/19/24 21:46 |
| **Sample Matrix** | : WATER | **Dilution Factor** | : | 1 |
| **Analytical Method** | : 3,245.1 | **Analyst** | : | MJR |
| **Lab File ID** | : WG2011319.pdf | **Instrument ID** | : | NIC3 |
| **Sample Amount** | : 25ml | **%Solids** | : | N/A |
| **Digestion Method** | : EPA 245.1 | **Date Digested** | : | 12/18/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 7439-97-6 | Mercury, Total | ND | 0.00020 | 0.00009 | U |

# Form 1
# METALS

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-02** | **Date Collected** | **: 12/16/24 11:50** |
| **Client ID** | **: MW-4D2** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/19/24 22:24** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 3,245.1** | **Analyst** | **: MJR** |
| **Lab File ID** | **: WG2011319.pdf** | **Instrument ID** | **: NIC3** |
| **Sample Amount** | **: 25ml** | **%Solids** | **: N/A** |
| **Digestion Method** | **: EPA 245.1** | **Date Digested** | **: 12/18/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| **7439-97-6** | **Mercury, Total** | **ND** | **0.00020** | **0.00009** | **U** |

# Form 1
# METALS

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-03** | **Date Collected** | **: 12/16/24 08:45** |
| **Client ID** | **: MW-12S** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/20/24 00:08** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 3,245.1** | **Analyst** | **: MJR** |
| **Lab File ID** | **: WG2011319.pdf** | **Instrument ID** | **: NIC3** |
| **Sample Amount** | **: 25ml** | **%Solids** | **: N/A** |
| **Digestion Method** | **: EPA 245.1** | **Date Digested** | **: 12/18/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 7439-97-6 | Mercury, Total | ND | 0.00020 | 0.00009 | U |

# Form 1
# METALS

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-04** | **Date Collected** | **: 12/16/24 09:33** |
| **Client ID** | **: MW-12D** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/20/24 00:12** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 3,245.1** | **Analyst** | **: MJR** |
| **Lab File ID** | **: WG2011319.pdf** | **Instrument ID** | **: NIC3** |
| **Sample Amount** | **: 25ml** | **%Solids** | **: N/A** |
| **Digestion Method** | **: EPA 245.1** | **Date Digested** | **: 12/18/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 7439-97-6 | Mercury, Total | ND | 0.00020 | 0.00009 | U |

# Form 1
# METALS

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : | **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : | **L2474329** |
| **Project Name** | : | **CORAM MATERIALS** | **Project Number** | : | **2232.0006Y005** |
| **Lab ID** | : | **L2474329-05** | **Date Collected** | : | **12/16/24 12:00** |
| **Client ID** | : | **EB-12162024** | **Date Received** | : | **12/17/24** |
| **Sample Location** | : | **416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | : | **12/20/24 00:15** |
| **Sample Matrix** | : | **Equipment Blank** | **Dilution Factor** | : | **1** |
| **Analytical Method** | : | **3,245.1** | **Analyst** | : | **MJR** |
| **Lab File ID** | : | **WG2011319.pdf** | **Instrument ID** | : | **NIC3** |
| **Sample Amount** | : | **25ml** | **%Solids** | : | **N/A** |
| **Digestion Method** | : | **EPA 245.1** | **Date Digested** | : | **12/18/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 7439-97-6 | Mercury, Total | ND | 0.00020 | 0.00009 | U |

# Form 1
# METALS

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: WG2010924-1** | **Date Collected** | **: NA** |
| **Client ID** | **: WG2010924-1BLANK** | **Date Received** | **: NA** |
| **Sample Location** | **:** | **Date Analyzed** | **: 12/19/24 21:40** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 3,245.1** | **Analyst** | **: MJR** |
| **Lab File ID** | **: WG2011319.pdf** | **Instrument ID** | **: NIC3** |
| **Sample Amount** | **: 25ml** | **%Solids** | **: N/A** |
| **Digestion Method** | **: EPA 245.1** | **Date Digested** | **: 12/18/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 7439-97-6 | Mercury, Total | ND | 0.00020 | 0.00009 | U |

# Form 1
# METALS

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: WG2010924-4** | **Date Collected** | **: 12/16/24 11:00** |
| **Client ID** | **: MW-4SDUP** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **:** | **Date Analyzed** | **: 12/19/24 21:53** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 3,245.1** | **Analyst** | **: MJR** |
| **Lab File ID** | **: WG2011319.pdf** | **Instrument ID** | **: NIC3** |
| **Sample Amount** | **: 25ml** | **%Solids** | **: N/A** |
| **Digestion Method** | **: EPA 245.1** | **Date Digested** | **: 12/18/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 7439-97-6 | Mercury, Total | ND | 0.00020 | 0.0001 | U |

# Form 1
# METALS

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: WG2010924-6** | **Date Collected** | **: 12/16/24 11:50** |
| **Client ID** | **: MW-4D2DUP** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **:** | **Date Analyzed** | **: 12/19/24 22:31** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 3,245.1** | **Analyst** | **: MJR** |
| **Lab File ID** | **: WG2011319.pdf** | **Instrument ID** | **: NIC3** |
| **Sample Amount** | **: 25ml** | **%Solids** | **: N/A** |
| **Digestion Method** | **: EPA 245.1** | **Date Digested** | **: 12/18/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 7439-97-6 | Mercury, Total | ND | 0.00020 | 0.0001 | U |

# Form 1
# METALS

| | | | | |
|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : | L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : | 2232.0006Y005 |
| **Lab ID** | : L2474329-01 | **Date Collected** | : | 12/16/24 11:00 |
| **Client ID** | : MW-4S | **Date Received** | : | 12/17/24 |
| **Sample Location** | : 416 MILLER PLACE-YAPHANK ROAD | **Date Analyzed** | : | 12/23/24 10:10 |
| **Sample Matrix** | : WATER | **Dilution Factor** | : | 1 |
| **Analytical Method** | : 3,245.1 | **Analyst** | : | JWN |
| **Lab File ID** | : WG2012585.pdf | **Instrument ID** | : | NIC1 |
| **Sample Amount** | : 25ml | **%Solids** | : | N/A |
| **Digestion Method** | : EPA 245.1 | **Date Digested** | : | 12/22/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 7439-97-6 | Mercury, Dissolved | 0.00009 | 0.00020 | 0.00009 | J |

# Form 1
# METALS

| | | | | |
|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : | L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : | 2232.0006Y005 |
| **Lab ID** | : L2474329-02 | **Date Collected** | : | 12/16/24 11:50 |
| **Client ID** | : MW-4D2 | **Date Received** | : | 12/17/24 |
| **Sample Location** | : 416 MILLER PLACE-YAPHANK ROAD | **Date Analyzed** | : | 12/23/24 10:26 |
| **Sample Matrix** | : WATER | **Dilution Factor** | : | 1 |
| **Analytical Method** | : 3,245.1 | **Analyst** | : | JWN |
| **Lab File ID** | : WG2012585.pdf | **Instrument ID** | : | NIC1 |
| **Sample Amount** | : 25ml | **%Solids** | : | N/A |
| **Digestion Method** | : EPA 245.1 | **Date Digested** | : | 12/22/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 7439-97-6 | Mercury, Dissolved | ND | 0.00020 | 0.00009 | U |

# Form 1
# METALS

| | | | | |
|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : | L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : | 2232.0006Y005 |
| **Lab ID** | : L2474329-03 | **Date Collected** | : | 12/16/24 08:45 |
| **Client ID** | : MW-12S | **Date Received** | : | 12/17/24 |
| **Sample Location** | : 416 MILLER PLACE-YAPHANK ROAD | **Date Analyzed** | : | 12/23/24 10:29 |
| **Sample Matrix** | : WATER | **Dilution Factor** | : | 1 |
| **Analytical Method** | : 3,245.1 | **Analyst** | : | JWN |
| **Lab File ID** | : WG2012585.pdf | **Instrument ID** | : | NIC1 |
| **Sample Amount** | : 25ml | **%Solids** | : | N/A |
| **Digestion Method** | : EPA 245.1 | **Date Digested** | : | 12/22/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 7439-97-6 | Mercury, Dissolved | ND | 0.00020 | 0.00009 | U |

Pace

# Form 1
# METALS

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : | **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : | **L2474329** |
| **Project Name** | : | **CORAM MATERIALS** | **Project Number** | : | **2232.0006Y005** |
| **Lab ID** | : | **L2474329-04** | **Date Collected** | : | **12/16/24 09:33** |
| **Client ID** | : | **MW-12D** | **Date Received** | : | **12/17/24** |
| **Sample Location** | : | **416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | : | **12/23/24 10:33** |
| **Sample Matrix** | : | **WATER** | **Dilution Factor** | : | **1** |
| **Analytical Method** | : | **3,245.1** | **Analyst** | : | **JWN** |
| **Lab File ID** | : | **WG2012585.pdf** | **Instrument ID** | : | **NIC1** |
| **Sample Amount** | : | **25ml** | **%Solids** | : | **N/A** |
| **Digestion Method** | : | **EPA 245.1** | **Date Digested** | : | **12/22/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 7439-97-6 | Mercury, Dissolved | ND | 0.00020 | 0.00009 | U |

# Form 1
# METALS

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-05** | **Date Collected** | **: 12/16/24 12:00** |
| **Client ID** | **: EB-12162024** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/23/24 10:47** |
| **Sample Matrix** | **: Equipment Blank** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 3,245.1** | **Analyst** | **: JWN** |
| **Lab File ID** | **: WG2012585.pdf** | **Instrument ID** | **: NIC1** |
| **Sample Amount** | **: 25ml** | **%Solids** | **: N/A** |
| **Digestion Method** | **: EPA 245.1** | **Date Digested** | **: 12/22/24** |

| CAS NO. | Parameter | mg/l Results | mg/l RL | mg/l MDL | Qualifier |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury, Dissolved | ND | 0.00020 | 0.00009 | U |

# Form 1
# METALS

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: WG2012441-1** | **Date Collected** | **: NA** |
| **Client ID** | **: WG2012441-1BLANK** | **Date Received** | **: NA** |
| **Sample Location** | **:** | **Date Analyzed** | **: 12/23/24 10:03** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 3,245.1** | **Analyst** | **: JWN** |
| **Lab File ID** | **: WG2012585.pdf** | **Instrument ID** | **: NIC1** |
| **Sample Amount** | **: 25ml** | **%Solids** | **: N/A** |
| **Digestion Method** | **: EPA 245.1** | **Date Digested** | **: 12/22/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 7439-97-6 | Mercury, Dissolved | 0.00013 | 0.00020 | 0.00009 | J |

# Form 1
# METALS

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : | **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : | **L2474329** |
| **Project Name** | : | **CORAM MATERIALS** | **Project Number** | : | **2232.0006Y005** |
| **Lab ID** | : | **WG2012441-4** | **Date Collected** | : | **12/16/24 11:00** |
| **Client ID** | : | **MW-4SDUP** | **Date Received** | : | **12/17/24** |
| **Sample Location** | : | | **Date Analyzed** | : | **12/23/24 10:16** |
| **Sample Matrix** | : | **WATER** | **Dilution Factor** | : | **1** |
| **Analytical Method** | : | **3,245.1** | **Analyst** | : | **JWN** |
| **Lab File ID** | : | **WG2012585.pdf** | **Instrument ID** | : | **NIC1** |
| **Sample Amount** | : | **25ml** | **%Solids** | : | **N/A** |
| **Digestion Method** | : | **EPA 245.1** | **Date Digested** | : | **12/22/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 7439-97-6 | Mercury, Dissolved | ND | 0.00020 | 0.0001 | U |

# Form 2A
# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Instrument ID** | : NIC3 | **Units** | : mg/l |

| | Initial Calibration | | | Continuing Calibration(s) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | R1913359-1 | | | R1913359-3 | | | R1913359-5 | | R1913359-7 | |
| Date Analyzed : | 12/19/24 09:44 | | | 12/19/24 10:48 | | | 12/19/24 11:28 | | 12/19/24 12:10 | |
| **Parameter** | **True** | **Found** | **%R** | **True** | **Found** | **%R** | **Found** | **%R** | **Found** | **%R** |
| Mercury | 0.00300 | 0.0029 | 95 | 0.0050 | 0.00510 | 102 | 0.00510 | 102 | 0.00510 | 102 |

<u>Acceptance Criteria:</u>

| | | |
|---|---|---|
| ICV: | 95-105% | (Methods 200.7, 245.1) |
| | 90-110% | (Methods 200.8, 6010, 6020, 7470, 7471, 7474) |
| | 85-115% | (Method 1631) |
| CCV: | 90-110% | (Methods 200.7, 245.1, 6010, 6020, 7474) |
| | 85-115% | (Methods 200.8, 1631) |
| | 80-120% | (Methods 7470, 7471) |

# Form 2A
# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Instrument ID** | : **NIC3** | **Units** | : **mg/l** |

| | Initial Calibration | | | Continuing Calibration(s) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | | R1913359-9 | | | R1913359-11 | | R1913359-13 | |
| Date Analyzed : | | | | 12/19/24 12:50 | | | 12/19/24 13:47 | | 12/19/24 14:36 | |
| **Parameter** | **True** | **Found** | **%R** | **True** | **Found** | **%R** | **Found** | **%R** | **Found** | **%R** |
| **Mercury** | | | | **0.0050** | **0.00510** | **102** | **0.00510** | **102** | **0.00510** | **102** |

**Acceptance Criteria:**

| | | |
|---|---|---|
| **ICV:** | **95-105%** | **(Methods 200.7, 245.1)** |
| | **90-110%** | **(Methods 200.8, 6010, 6020, 7470, 7471, 7474)** |
| | **85-115%** | **(Method 1631)** |
| **CCV:** | **90-110%** | **(Methods 200.7, 245.1, 6010, 6020, 7474)** |
| | **85-115%** | **(Methods 200.8, 1631)** |
| | **80-120%** | **(Methods 7470, 7471)** |

Pace

# Form 2A
# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Instrument ID** | : **NIC3** | **Units** | : **mg/l** |

| | Initial Calibration | | | Continuing Calibration(s) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | | R1913359-15 | | | R1913359-17 | | R1913359-19 | |
| Date Analyzed : | | | | 12/19/24 15:27 | | | 12/19/24 16:07 | | 12/19/24 16:46 | |
| **Parameter** | **True** | **Found** | **%R** | **True** | **Found** | **%R** | **Found** | **%R** | **Found** | **%R** |
| **Mercury** | | | | **0.0050** | **0.00480** | **96** | **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)** |
| | **85-115%** | **(Method 1631)** |
| **CCV:** | **90-110%** | **(Methods 200.7, 245.1, 6010, 6020, 7474)** |
| | **85-115%** | **(Methods 200.8, 1631)** |
| | **80-120%** | **(Methods 7470, 7471)** |

# Form 2A
# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Instrument ID** | : NIC3 | **Units** | : mg/l |

| | Initial Calibration | | | Continuing Calibration(s) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | | R1913359-21 | | | R1913359-23 | | R1913359-25 | |
| Date Analyzed: | | | | 12/19/24 18:05 | | | 12/19/24 19:17 | | 12/19/24 20:05 | |
| **Parameter** | **True** | **Found** | **%R** | **True** | **Found** | **%R** | **Found** | **%R** | **Found** | **%R** |
| Mercury | | | | 0.0050 | 0.00480 | 96 | 0.00500 | 100 | 0.00490 | 98 |

**Acceptance Criteria:**

| | | |
|---|---|---|
| ICV: | 95-105% | (Methods 200.7, 245.1) |
| | 90-110% | (Methods 200.8, 6010, 6020, 7470, 7471, 7474) |
| | 85-115% | (Method 1631) |
| CCV: | 90-110% | (Methods 200.7, 245.1, 6010, 6020, 7474) |
| | 85-115% | (Methods 200.8, 1631) |
| | 80-120% | (Methods 7470, 7471) |

# Form 2A
# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Instrument ID** | **: NIC3** | **Units** | **: mg/l** |

| | Initial Calibration | | | Continuing Calibration(s) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | | R1913359-27 | | | R1913359-29 | | R1913359-31 | |
| Date Analyzed : | | | | 12/19/24 21:56 | | | 12/19/24 22:45 | | 12/20/24 00:21 | |
| **Parameter** | **True** | **Found** | **%R** | **True** | **Found** | **%R** | **Found** | **%R** | **Found** | **%R** |
| Mercury | | | | 0.0050 | 0.00490 | 99 | 0.00490 | 97 | 0.00500 | 100 |

**Acceptance Criteria:**

| | | |
|---|---|---|
| ICV: | 95-105% | (Methods 200.7, 245.1) |
| | 90-110% | (Methods 200.8, 6010, 6020, 7470, 7471, 7474) |
| | 85-115% | (Method 1631) |
| CCV: | 90-110% | (Methods 200.7, 245.1, 6010, 6020, 7474) |
| | 85-115% | (Methods 200.8, 1631) |
| | 80-120% | (Methods 7470, 7471) |

# Form 2A
# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Instrument ID** | **: NIC1** | **Units** | **: mg/l** |

| | Initial Calibration | | | Continuing Calibration(s) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | R1914545-1 | | | R1914545-3 | | | R1914545-5 | | R1914545-7 | |
| Date Analyzed : | 12/23/24 07:37 | | | 12/23/24 08:28 | | | 12/23/24 09:33 | | 12/23/24 10:36 | |
| **Parameter** | **True** | **Found** | **%R** | **True** | **Found** | **%R** | **Found** | **%R** | **Found** | **%R** |
| Mercury | 0.00300 | 0.0029 | 98 | 0.0050 | 0.00500 | 99 | 0.00500 | 99 | 0.00490 | 99 |

**Acceptance Criteria:**

| | | |
|---|---|---|
| ICV: | 95-105% | (Methods 200.7, 245.1) |
| | 90-110% | (Methods 200.8, 6010, 6020, 7470, 7471, 7474) |
| | 85-115% | (Method 1631) |
| CCV: | 90-110% | (Methods 200.7, 245.1, 6010, 6020, 7474) |
| | 85-115% | (Methods 200.8, 1631) |
| | 80-120% | (Methods 7470, 7471) |

# Form 2A
# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Instrument ID** | : NIC1 | **Units** | : mg/l |

| | Initial Calibration | | | Continuing Calibration(s) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | | R1914545-9 | | | | | | |
| Date Analyzed : | | | | 12/23/24 11:49 | | | | | | |
| **Parameter** | **True** | **Found** | **%R** | **True** | **Found** | **%R** | **Found** | **%R** | **Found** | **%R** |
| Mercury | | | | 0.0050 | 0.00490 | 98 | | | | |

**Acceptance Criteria:**

| | | |
|---|---|---|
| ICV: | 95-105% | (Methods 200.7, 245.1) |
| | 90-110% | (Methods 200.8, 6010, 6020, 7470, 7471, 7474) |
| | 85-115% | (Method 1631) |
| CCV: | 90-110% | (Methods 200.7, 245.1, 6010, 6020, 7474) |
| | 85-115% | (Methods 200.8, 1631) |
| | 80-120% | (Methods 7470, 7471) |

# Form 3
# Blanks

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Instrument ID** | : NIC3 | | |

| | Initial Calibration Blank | | Continuing Calibration Blank(s) | | | | | | Preparation Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | R1913359-2 | | R1913359-4 | | R1913359-6 | | R1913359-8 | | WG2010924-1 | |
| Date Analyzed : | 12/19/24 09:47 | | 12/19/24 10:51 | | 12/19/24 11:31 | | 12/19/24 12:14 | | 12/19/24 21:40 | |
| **Parameter** | mg/l | Q | mg/l | Q | mg/l | Q | mg/l | Q | mg/l | Q |
| Mercury | 0.0000910 | U | 0.0000910 | U | 0.0000910 | U | 0.0000910 | U | 0.00009 | U |

# Form 3
# Blanks

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Instrument ID** | **: NIC3** | | |

| | Initial Calibration Blank | | Continuing Calibration Blank(s) | | | | | | Preparation Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | R1913359-10 | | R1913359-12 | | R1913359-14 | | | |
| Date Analyzed : | | | 12/19/24 12:53 | | 12/19/24 13:50 | | 12/19/24 14:39 | | | |
| **Parameter** | **mg/l** | **Q** | **mg/l** | **Q** | **mg/l** | **Q** | **mg/l** | **Q** | | **Q** |
| Mercury | | | 0.0000910 | U | 0.0000910 | U | 0.0000910 | U | | |

# Form 3
# Blanks

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : NIC3 | | |

| | Initial Calibration Blank | | Continuing Calibration Blank(s) | | | | | | Preparation Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | R1913359-16 | | R1913359-18 | | R1913359-20 | | | |
| Date Analyzed : | | | 12/19/24 15:30 | | 12/19/24 16:10 | | 12/19/24 16:50 | | | |
| Parameter | mg/l | Q | mg/l | Q | mg/l | Q | mg/l | Q | | Q |
| Mercury | | | 0.0000910 | U | 0.0000910 | U | 0.0000910 | U | | |

# Form 3
# Blanks

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Instrument ID** | : NIC3 | | |

| | Initial Calibration Blank | | Continuing Calibration Blank(s) | | | | | | Preparation Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | R1913359-22 | | R1913359-24 | | R1913359-26 | | | |
| Date Analyzed : | | | 12/19/24 18:08 | | 12/19/24 19:20 | | 12/19/24 20:08 | | | |
| **Parameter** | mg/l | Q | mg/l | Q | mg/l | Q | mg/l | Q | | Q |
| Mercury | | | 0.0000910 | U | 0.0000910 | U | 0.0000910 | U | | |

# Form 3
# Blanks

| | | | |
|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Instrument ID** | : **NIC3** | | |

| | Initial Calibration Blank | | Continuing Calibration Blank(s) | | | | | | Preparation Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | R1913359-28 | | R1913359-30 | | R1913359-32 | | | |
| Date Analyzed : | | | 12/19/24 22:00 | | 12/19/24 22:48 | | 12/20/24 00:25 | | | |
| **Parameter** | mg/l | Q | mg/l | Q | mg/l | Q | mg/l | Q | | Q |
| **Mercury** | | | 0.0000910 | U | 0.0000910 | U | 0.0000910 | U | | |

# Form 3
# Blanks

**Client** : Roux Env. Eng. & Geology, DPC
**Lab Number** : L2474329
**Project Name** : CORAM MATERIALS
**Project Number** : 2232.0006Y005
**Instrument ID** : NIC1

| | Initial Calibration Blank | | Continuing Calibration Blank(s) | | | | | | Preparation Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | R1914545-2 | | R1914545-4 | | R1914545-6 | | R1914545-8 | | WG2012441-1 | |
| Date Analyzed : | 12/23/24 07:40 | | 12/23/24 08:32 | | 12/23/24 09:36 | | 12/23/24 10:39 | | 12/23/24 10:03 | |
| Parameter | mg/l | Q | mg/l | Q | mg/l | Q | mg/l | Q | mg/l | Q |
| Mercury | 0.0000910 | U | 0.0000910 | U | 0.0000910 | U | 0.0000910 | U | 0.00013 | J |

# Form 3
# Blanks

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Instrument ID** | : NIC1 | | |

| | Initial Calibration Blank | | Continuing Calibration Blank(s) | | | | | | Preparation Blank | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID : | | | R1914545-10 | | | | | | | |
| Date Analyzed : | | | 12/23/24 11:52 | | | | | | | |
| **Parameter** | **mg/l** | **Q** | **mg/l** | **Q** | **mg/l** | **Q** | **mg/l** | **Q** | | **Q** |
| Mercury | | | 0.0000910 | U | | | | | | |

# Form 5a
# Matrix Spike

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Client Sample ID** | : **MW-4S** | **Matrix** | : **WATER** |
| **Lab Sample ID** | : **L2474329-01** | | |
| **Matrix Spike** | : **WG2010924-3** | **MS Analysis Date** | : **12/19/24 21:50** |
| **Matrix Spike Dup** | : | **MSD Analysis Date** | : |

| Parameter | Sample Conc. (mg/l) | Matrix Spike Sample Spike Added (mg/l) | Matrix Spike Sample Spike Conc. (mg/l) | Matrix Spike Sample %R | Matrix Spike Duplicate Spike Added (mg/l) | Matrix Spike Duplicate Spike Conc. (mg/l) | Matrix Spike Duplicate %R | RPD | Recovery Limits | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury, Total | ND | 0.005 | 0.00473 | 95 | | | | | 70-130 | 20 |

# Form 5a
# Matrix Spike

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : | **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : | **L2474329** |
| **Project Name** | : | **CORAM MATERIALS** | **Project Number** | : | **2232.0006Y005** |
| **Client Sample ID** | : | **MW-4D2** | **Matrix** | : | **WATER** |
| **Lab Sample ID** | : | **L2474329-02** | | | |
| **Matrix Spike** | : | **WG2010924-5** | **MS Analysis Date** | : | **12/19/24 22:28** |
| **Matrix Spike Dup** | : | | **MSD Analysis Date** | : | |

| | | Matrix Spike Sample | | | Matrix Spike Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Parameter | Sample Conc. (mg/l) | Spike Added (mg/l) | Spike Conc. (mg/l) | %R | Spike Added (mg/l) | Spike Conc. (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
| Mercury, Total | ND | 0.005 | 0.00464 | 93 | | | | | 70-130 | 20 |

# Form 5a
# Matrix Spike

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : | **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : | **L2474329** |
| **Project Name** | : | **CORAM MATERIALS** | **Project Number** | : | **2232.0006Y005** |
| **Client Sample ID** | : | **MW-4S** | **Matrix** | : | **WATER** |
| **Lab Sample ID** | : | **L2474329-01** | | | |
| **Matrix Spike** | : | **WG2012441-3** | **MS Analysis Date** | : | **12/23/24 10:13** |
| **Matrix Spike Dup** | : | | **MSD Analysis Date** | : | |

| | | Matrix Spike Sample | | | Matrix Spike Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Parameter | Sample Conc. (mg/l) | Spike Added (mg/l) | Spike Conc. (mg/l) | %R | Spike Added (mg/l) | Spike Conc. (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
| Mercury, Dissolved | 0.00009J | 0.005 | 0.00462 | 92 | | | | | 75-125 | 20 |

# Form 6
# Lab Duplicates

| | | | | |
|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | | **Project Number** | : 2232.0006Y005 |
| **Client Sample ID** | : MW-4S | | **Matrix** | : WATER |
| **Lab Sample ID** | : L2474329-01 | | **Analysis Date** | : 12/19/24 21:46 |
| **Dup Sample ID** | : WG2010924-4 | | **DUP Analysis Date** | : 12/19/24 21:53 |

| 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** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Client Sample ID** | : MW-4D2 | **Matrix** | : WATER |
| **Lab Sample ID** | : L2474329-02 | **Analysis Date** | : 12/19/24 22:24 |
| **Dup Sample ID** | : WG2010924-6 | **DUP Analysis Date** | : 12/19/24 22:31 |

| 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 | : | L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : | 2232.0006Y005 |
| Client Sample ID | : MW-4S | Matrix | : | WATER |
| Lab Sample ID | : L2474329-01 | Analysis Date | : | 12/23/24 10:10 |
| Dup Sample ID | : WG2012441-4 | DUP Analysis Date | : | 12/23/24 10:16 |

| Parameter | Sample Concentration (mg/l) | Duplicate Concentration (mg/l) | RPD | RPD Limit |
|---|---|---|---|---|
| Mercury, Dissolved | 0.00009J | ND | NC | 20 |

# Form 7
# Laboratory Control Sample

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Client Sample ID** | **: NA** | **Matrix** | **: WATER** |
| **Lab Sample ID** | **: WG2010924-2** | **LCS Analysis Date** | **: 12/19/24 21:43** |
| **Dup Sample ID** | **:** | **LCSD Analysis Date** | **:** |

| Parameter | Laboratory Control Sample True (mg/l) | Found (mg/l) | %R | Laboratory Control Duplicate True (mg/l) | Found (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Mercury, Total | 0.00100 | 0.000940 | 95. | | | | | 85-115 | 20 |

# Form 7
# Laboratory Control Sample

| | | | | |
|---|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | | Project Number | : 2232.0006Y005 |
| Client Sample ID | : NA | | Matrix | : WATER |
| Lab Sample ID | : WG2012441-2 | | LCS Analysis Date | : 12/23/24 10:06 |
| Dup Sample ID | : | | LCSD Analysis Date | : |

| Parameter | Laboratory Control Sample True (mg/l) | Found (mg/l) | %R | Laboratory Control Duplicate True (mg/l) | Found (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Mercury, Dissolved | 0.00100 | 0.00111 | 111. | | | | | 85-115 | 20 |

Pace

# Form 12
# Preparation Log

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Matrix** | : WATER | **Prep Method** | : EPA 245.1 |

| Sample Number | Preparation Date | Weight (gram) | Volume (mL) |
|---|---|---|---|
| L2474329-01 | 12/18/24 19:28 | - | 25 |
| L2474329-02 | 12/18/24 19:28 | - | 25 |
| L2474329-03 | 12/18/24 19:28 | - | 25 |
| L2474329-04 | 12/18/24 19:28 | - | 25 |
| L2474329-05 | 12/18/24 19:28 | - | 25 |
| WG2010924-1 | 12/18/24 19:28 | - | 25 |
| WG2010924-2 | 12/18/24 19:28 | - | 25 |
| WG2010924-3 | 12/18/24 19:28 | - | 25 |
| WG2010924-4 | 12/18/24 19:28 | - | 25 |
| WG2010924-5 | 12/18/24 19:28 | - | 25 |
| WG2010924-6 | 12/18/24 19:28 | - | 25 |

# Form 12
# Preparation Log

| | | | | | |
|---|---|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : | L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : | 2232.0006Y005 |
| Matrix | : WATER | Prep Method | : | EPA 245.1 |

| Sample Number | Preparation Date | Weight (gram) | Volume (mL) |
|---|---|---|---|
| L2474329-01 | 12/22/24 19:46 | - | 25 |
| L2474329-02 | 12/22/24 19:46 | - | 25 |
| L2474329-03 | 12/22/24 19:46 | - | 25 |
| L2474329-04 | 12/22/24 19:46 | - | 25 |
| L2474329-05 | 12/22/24 19:46 | - | 25 |
| WG2012441-1 | 12/22/24 19:46 | - | 25 |
| WG2012441-2 | 12/22/24 19:46 | - | 25 |
| WG2012441-3 | 12/22/24 19:46 | - | 25 |
| WG2012441-4 | 12/22/24 19:46 | - | 25 |

# Form 13
# Analysis Run Log

| | | | | | |
|---|---|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | | Lab Number | : | L2474329 |
| Project Name | : CORAM MATERIALS | | Project Number | : | 2232.0006Y005 |
| Instrument ID | : NIC3 | | Analysis Method | : | 3,245.1 |
| Start Date | : 12/19/24 09:44 | | End Date | : | 12/20/24 00:25 |

| Sample Number | Dilution Factor | Analysis Time | Mercury, Total |
|---|---|---|---|
| R1913359-1 ICV | 1 | 09:44:13 | X |
| R1913359-2 ICB | 1 | 09:47:31 | X |
| R1913359-3 CCV | 1 | 10:48:26 | X |
| R1913359-4 CCB | 1 | 10:51:45 | X |
| R1913359-5 CCV | 1 | 11:28:08 | X |
| R1913359-6 CCB | 1 | 11:31:27 | X |
| R1913359-7 CCV | 1 | 12:10:53 | X |
| R1913359-8 CCB | 1 | 12:14:11 | X |
| R1913359-9 CCV | 1 | 12:50:30 | X |
| R1913359-10 CCB | 1 | 12:53:48 | X |
| R1913359-11 CCV | 1 | 13:47:18 | X |
| R1913359-12 CCB | 1 | 13:50:36 | X |
| R1913359-13 CCV | 1 | 14:36:06 | X |
| R1913359-14 CCB | 1 | 14:39:25 | X |
| R1913359-15 CCV | 1 | 15:27:18 | X |
| R1913359-16 CCB | 1 | 15:30:37 | X |
| R1913359-17 CCV | 1 | 16:07:01 | X |
| R1913359-18 CCB | 1 | 16:10:20 | X |
| R1913359-19 CCV | 1 | 16:46:42 | X |
| R1913359-20 CCB | 1 | 16:50:00 | X |
| R1913359-21 CCV | 1 | 18:05:40 | X |
| R1913359-22 CCB | 1 | 18:08:59 | X |
| R1913359-23 CCV | 1 | 19:17:12 | X |
| R1913359-24 CCB | 1 | 19:20:30 | X |
| R1913359-25 CCV | 1 | 20:05:41 | X |
| R1913359-26 CCB | 1 | 20:08:59 | X |
| WG2010924-1 BLANK | 1 | 21:40:11 | X |

# Form 13
# Analysis Run Log

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Instrument ID | : NIC3 | Analysis Method | : 3,245.1 |
| Start Date | : 12/19/24 09:44 | End Date | : 12/20/24 00:25 |

| Sample Number | Dilution Factor | Analysis Time | Mercury, Total |
|---|---|---|---|
| WG2010924-2 LCS | 1 | 21:43:30 | X |
| L2474329-01 | 1 | 21:46:48 | X |
| WG2010924-3 MS | 1 | 21:50:06 | X |
| WG2010924-4 DUP | 1 | 21:53:24 | X |
| R1913359-27 CCV | 1 | 21:56:42 | X |
| R1913359-28 CCB | 1 | 22:00:00 | X |
| L2474329-02 | 1 | 22:24:55 | X |
| WG2010924-5 MS | 1 | 22:28:14 | X |
| WG2010924-6 DUP | 1 | 22:31:33 | X |
| R1913359-29 CCV | 1 | 22:45:24 | X |
| R1913359-30 CCB | 1 | 22:48:42 | X |
| L2474329-03 | 1 | 00:08:44 | X |
| L2474329-04 | 1 | 00:12:03 | X |
| L2474329-05 | 1 | 00:15:21 | X |
| R1913359-31 CCV | 1 | 00:21:58 | X |
| R1913359-32 CCB | 1 | 00:25:17 | X |

# Form 13
# Analysis Run Log

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | | **Lab Number** | : | L2474329 |
| **Project Name** | : CORAM MATERIALS | | **Project Number** | : | 2232.0006Y005 |
| **Instrument ID** | : NIC1 | | **Analysis Method** | : | 3,245.1 |
| **Start Date** | : 12/23/24 07:37 | | **End Date** | : | 12/23/24 11:52 |

| Sample Number | Dilution Factor | Analysis Time | Mercury, Dissolved |
|---|---|---|---|
| R1914545-1 ICV | 1 | 07:37:07 | X |
| R1914545-2 ICB | 1 | 07:40:26 | X |
| R1914545-3 CCV | 1 | 08:28:49 | X |
| R1914545-4 CCB | 1 | 08:32:08 | X |
| R1914545-5 CCV | 1 | 09:33:26 | X |
| R1914545-6 CCB | 1 | 09:36:44 | X |
| WG2012441-1 BLANK | 1 | 10:03:27 | X |
| WG2012441-2 LCS | 1 | 10:06:46 | X |
| L2474329-01 | 1 | 10:10:04 | X |
| WG2012441-3 MS | 1 | 10:13:22 | X |
| WG2012441-4 DUP | 1 | 10:16:41 | X |
| L2474329-02 | 1 | 10:26:35 | X |
| L2474329-03 | 1 | 10:29:54 | X |
| L2474329-04 | 1 | 10:33:21 | X |
| R1914545-7 CCV | 1 | 10:36:37 | X |
| R1914545-8 CCB | 1 | 10:39:55 | X |
| L2474329-05 | 1 | 10:47:05 | X |
| R1914545-9 CCV | 1 | 11:49:35 | X |
| R1914545-10 CCB | 1 | 11:52:54 | X |

Date Created: 03/19/18
Created By: Jason Hebert
File: PM4631-1
Page: 1

**MERCURY by 7470A, 245.1 (WATER)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Surrogate Criteria | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury, Total | 7439-97-6 | 0.0002 | 0.0000915 | mg/l | 80-120 | 20 | 75-125 | 20 | 20 | | 28 days | 1 - Plastic 500ml HNO3 preserved |

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

**Date Created:** 01/22/21
**Created By:** Jason Hebert
**File:** PM9836-1
**Page:** 1

**METALS by 7470A (WATER)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Surrogate Criteria | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury, Total | 7439-97-6 | 0.0002 | 0.0000915 | mg/l | 80-120 | | 75-125 | 20 | 20 | | 28 days | 1 - Plastic 500ml HNO3 preserved |

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

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9837-1
Page: 1

**METALS by 7471B (SOIL)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Surrogate Criteria | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury, Total | 7439-97-6 | 0.08 | 0.05216 | mg/kg | 72-128 | | 80-120 | 20 | 20 | | 28 days | Metals Only-Glass 60mL/2oz unpreserv |
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*Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)*
*Please Note that the information provided in this table is subject to change at anytime at the discretion of **the laboratory.***

Title :
Date : 12/19/2024
Name :

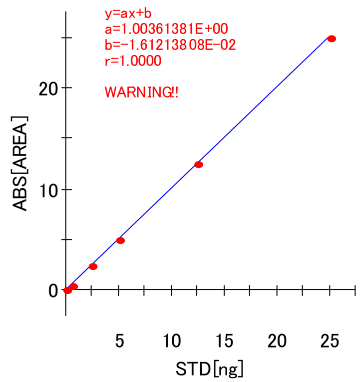
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib




STD

| No. | STD [ug/L] | SVOL [mL] | CVOL [mL] | DVOL [mL] | STD [ng] | AREA [ON] | MEAS [ng] | Dev [%] | M. TIME | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.000 | 2.500 | 2.500 | 2.500 | 0.000 | 0.0156 | 0.0316 | - | 12/19/2024 09:09 | MJR,NIC3 |
| 2 | 0.200 | 2.500 | 2.500 | 2.500 | 0.500 | 0.4917 | 0.5060 | 1.2 | 12/19/2024 09:13 | MJR,NIC3 |
| 3 | 1.000 | 2.500 | 2.500 | 2.500 | 2.500 | 2.3935 | 2.4009 | 4.0 | 12/19/2024 09:16 | MJR,NIC3 |
| 4 | 2.000 | 2.500 | 2.500 | 2.500 | 5.000 | 5.0148 | 5.0128 | 0.3 | 12/19/2024 09:19 | MJR,NIC3 |
| 5 | 5.000 | 2.500 | 2.500 | 2.500 | 12.500 | 12.6122 | 12.5828 | 0.7 | 12/19/2024 09:23 | MJR,NIC3 |
| 6 | 10.000 | 2.500 | 2.500 | 2.500 | 25.000 | 25.0399 | 24.9658 | 0.1 | 12/19/2024 09:33 | MJR,NIC3 |

SMP

| No. | NAME | SVOL [mL] | CVOL [mL] | DVOL [mL] | AREA [ON] | MEAS [ng] | CONC [ug/L] | Recovery [%] | M. TIME | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | XICV | 2.500 | 2.500 | 2.500 | 7.0541 | 7.0448 | 2.818 | - | 12/19/2024 09:37 | MJR,NIC3 |
| 2 | XICB | 2.500 | 2.500 | 2.500 | 0.0173 | 0.0333 | 0.013 | - | 12/19/2024 09:40 | MJR,NIC3 |
| 3 | ICV | 2.500 | 2.500 | 2.500 | 7.1412 | 7.1315 | 2.853 | - | 12/19/2024 09:44 | MJR,NIC3 |
| 4 | ICB | 2.500 | 2.500 | 2.500 | 0.0158 | 0.0318 | 0.013 | - | 12/19/2024 09:47 | MJR,NIC3 |
| 5 | wg2010805-1 wg2010805 | 2.500 | 2.500 | 2.500 | 0.0097 | 0.0257 | 0.010 | - | 12/19/2024 10:12 | MJR,NIC3 |
| 6 | wg2010805-2 wg2010805 | 2.500 | 2.500 | 2.500 | 2.1984 | 2.2065 | 0.883 | - | 12/19/2024 10:15 | MJR,NIC3 |

| No. | NAME | SVOL [mL] | CVOL [mL] | DVOL [mL] | AREA [ON] | MEAS [ng] | CONC [ug/L] | Recovery [%] | M. TIME | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| 7 | l2472865-02 wg2010805 | 2.500 | 2.500 | 2.500 | 0.0956 | 0.1113 | 0.045 | - | 12/19/2024 10:19 | MJR,NIC3 |
| 8 | wg2010805-3 wg2010805 | 2.500 | 2.500 | 2.500 | 11.3874 | 11.3625 | 4.545 | - | 12/19/2024 10:22 | MJR,NIC3 |
| 9 | wg2010805-4 wg2010805 | 2.500 | 2.500 | 2.500 | 0.0983 | 0.1140 | 0.046 | - | 12/19/2024 10:25 | MJR,NIC3 |
| 10 | L2472865-01 WG2010805 | 2.500 | 2.500 | 2.500 | 0.0177 | 0.0337 | 0.013 | - | 12/19/2024 10:38 | MJR,NIC3 |
| 11 | L2472865-03 WG2010805 | 2.500 | 2.500 | 2.500 | 0.0350 | 0.0509 | 0.020 | - | 12/19/2024 10:41 | MJR,NIC3 |
| 12 | L2472865-04 WG2010805 | 2.500 | 2.500 | 2.500 | 0.0505 | 0.0664 | 0.027 | - | 12/19/2024 10:45 | MJR,NIC3 |
| 13 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 12.7208 | 12.6911 | 5.076 | 101.5 | 12/19/2024 10:48 | MJR,NIC3 |
| 14 | Check Blank | 2.500 | 2.500 | 2.500 | 0.0143 | 0.0303 | 0.012 | - | 12/19/2024 10:51 | MJR,NIC3 |
| 15 | L2472865-05 WG2010805 | 2.500 | 2.500 | 2.500 | 0.0441 | 0.0600 | 0.024 | - | 12/19/2024 10:55 | MJR,NIC3 |
| 16 | L2472865-06 WG2010805 | 2.500 | 2.500 | 2.500 | 1.5816 | 1.5920 | 0.637 | - | 12/19/2024 10:58 | MJR,NIC3 |
| 17 | L2472865-07 WG2010805 | 2.500 | 2.500 | 2.500 | 0.0751 | 0.0909 | 0.036 | - | 12/19/2024 11:01 | MJR,NIC3 |
| 18 | L2472865-08 WG2010805 | 2.500 | 2.500 | 2.500 | 0.0272 | 0.0432 | 0.017 | - | 12/19/2024 11:04 | MJR,NIC3 |
| 19 | L2472865-09 WG2010805 | 2.500 | 2.500 | 2.500 | 0.0546 | 0.0705 | 0.028 | - | 12/19/2024 11:08 | MJR,NIC3 |
| 20 | L2472865-10 WG2010805 | 2.500 | 2.500 | 2.500 | 0.0678 | 0.0836 | 0.033 | - | 12/19/2024 11:11 | MJR,NIC3 |
| 21 | L2472865-11 WG2010805 | 2.500 | 2.500 | 2.500 | 0.0573 | 0.0732 | 0.029 | - | 12/19/2024 11:14 | MJR,NIC3 |
| 22 | L2472865-12 WG2010805 | 2.500 | 2.500 | 2.500 | 0.0670 | 0.0828 | 0.033 | - | 12/19/2024 11:18 | MJR,NIC3 |
| 23 | L2472865-13 WG2010805 | 2.500 | 2.500 | 2.500 | 0.0309 | 0.0469 | 0.019 | - | 12/19/2024 11:21 | MJR,NIC3 |
| 24 | L2472865-14 WG2010805 | 2.500 | 2.500 | 2.500 | 0.0306 | 0.0466 | 0.019 | - | 12/19/2024 11:24 | MJR,NIC3 |
| 25 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 12.8357 | 12.8055 | 5.122 | 102.4 | 12/19/2024 11:28 | MJR,NIC3 |
| 26 | Check Blank | 2.500 | 2.500 | 2.500 | 0.0152 | 0.0312 | 0.012 | - | 12/19/2024 11:31 | MJR,NIC3 |
| 27 | L2472865-15 WG2010805 | 2.500 | 2.500 | 2.500 | 0.0861 | 0.1019 | 0.041 | - | 12/19/2024 11:34 | MJR,NIC3 |
| 28 | L2472865-16 WG2010805 | 2.500 | 2.500 | 2.500 | 0.0608 | 0.0766 | 0.031 | - | 12/19/2024 11:38 | MJR,NIC3 |
| 29 | L2472865-17 WG2010805 | 2.500 | 2.500 | 2.500 | 0.0847 | 0.1005 | 0.040 | - | 12/19/2024 11:41 | MJR,NIC3 |
| 30 | L2472865-18 WG2010805 | 2.500 | 2.500 | 2.500 | 0.0361 | 0.0520 | 0.021 | - | 12/19/2024 11:44 | MJR,NIC3 |
| 31 | L2472865-19 WG2010805 | 2.500 | 2.500 | 2.500 | 0.0264 | 0.0424 | 0.017 | - | 12/19/2024 11:47 | MJR,NIC3 |
| 32 | L2472865-21 WG2010805 | 2.500 | 2.500 | 2.500 | 0.0549 | 0.0708 | 0.028 | - | 12/19/2024 11:51 | MJR,NIC3 |
| 33 | wg2011117-1 wg2011117 | 2.500 | 2.500 | 2.500 | 0.0091 | 0.0251 | 0.010 | - | 12/19/2024 11:57 | MJR,NIC3 |
| 34 | wg2011117-2 wg2011117 | 2.500 | 2.500 | 2.500 | 2.2218 | 2.2299 | 0.892 | - | 12/19/2024 12:00 | MJR,NIC3 |
| 35 | l2472648-02 wg2011117 | 2.500 | 2.500 | 2.500 | 0.0106 | 0.0266 | 0.011 | - | 12/19/2024 12:04 | MJR,NIC3 |
| 36 | wg2011117-3 wg2011117 | 2.500 | 2.500 | 2.500 | 11.2811 | 11.2565 | 4.503 | - | 12/19/2024 12:07 | MJR,NIC3 |
| 37 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 12.8405 | 12.8103 | 5.124 | 102.5 | 12/19/2024 12:10 | MJR,NIC3 |
| 38 | Check Blank | 2.500 | 2.500 | 2.500 | 0.0130 | 0.0290 | 0.012 | - | 12/19/2024 12:14 | MJR,NIC3 |

| No. | NAME | SVOL [mL] | CVOL [mL] | DVOL [mL] | AREA [ON] | MEAS [ng] | CONC [ug/L] | Recovery [%] | M. TIME | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| 39 | wg2011117-4 wg2011117 | 2.500 | 2.500 | 2.500 | 0.0129 | 0.0289 | 0.012 | - | 12/19/2024 12:17 | MJR,NIC3 |
| 40 | l2472648-04 wg2011117 | 2.500 | 2.500 | 2.500 | 0.0140 | 0.0300 | 0.012 | - | 12/19/2024 12:20 | MJR,NIC3 |
| 41 | l2472648-06 wg2011117 | 2.500 | 2.500 | 2.500 | 0.0276 | 0.0436 | 0.017 | - | 12/19/2024 12:24 | MJR,NIC3 |
| 42 | l2472649-02 wg2011117 | 2.500 | 2.500 | 2.500 | 0.0253 | 0.0413 | 0.017 | - | 12/19/2024 12:27 | MJR,NIC3 |
| 43 | l2472649-04 wg2011117 | 2.500 | 2.500 | 2.500 | 0.0252 | 0.0412 | 0.016 | - | 12/19/2024 12:30 | MJR,NIC3 |
| 44 | l2472649-06 wg2011117 | 2.500 | 2.500 | 2.500 | 0.0373 | 0.0532 | 0.021 | - | 12/19/2024 12:34 | MJR,NIC3 |
| 45 | l2472649-08 wg2011117 | 2.500 | 2.500 | 2.500 | 0.0208 | 0.0368 | 0.015 | - | 12/19/2024 12:37 | MJR,NIC3 |
| 46 | l2472649-10 wg2011117 | 2.500 | 2.500 | 2.500 | 0.0219 | 0.0379 | 0.015 | - | 12/19/2024 12:40 | MJR,NIC3 |
| 47 | l2472649-12 wg2011117 | 2.500 | 2.500 | 2.500 | 0.0486 | 0.0645 | 0.026 | - | 12/19/2024 12:43 | MJR,NIC3 |
| 48 | wg2010391-1 wg2010391 | 2.500 | 2.500 | 2.500 | 0.0171 | 0.0331 | 0.013 | - | 12/19/2024 12:47 | MJR,NIC3 |
| 49 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 12.8369 | 12.8067 | 5.123 | 102.5 | 12/19/2024 12:50 | MJR,NIC3 |
| 50 | Check Blank | 2.500 | 2.500 | 2.500 | 0.0136 | 0.0296 | 0.012 | - | 12/19/2024 12:53 | MJR,NIC3 |
| 51 | wg2010391-2 wg2010391 | 2.500 | 2.500 | 2.500 | 2.3364 | 2.3441 | 0.938 | - | 12/19/2024 12:57 | MJR,NIC3 |
| 52 | L2473408-01 wg2010391 | 2.500 | 2.500 | 2.500 | 0.0154 | 0.0314 | 0.013 | - | 12/19/2024 13:00 | MJR,NIC3 |
| 53 | wg2010391-3 wg2010391 | 2.500 | 2.500 | 2.500 | 11.2936 | 11.2690 | 4.508 | - | 12/19/2024 13:03 | MJR,NIC3 |
| 54 | wg2010391-4 wg2010391 | 2.500 | 2.500 | 2.500 | 0.0128 | 0.0288 | 0.012 | - | 12/19/2024 13:07 | MJR,NIC3 |
| 55 | L2473408-02 wg2010391 | 2.500 | 2.500 | 2.500 | 0.0203 | 0.0363 | 0.015 | - | 12/19/2024 13:10 | MJR,NIC3 |
| 56 | wg2010974-1 wg2010974 | 2.500 | 2.500 | 2.500 | 0.0688 | 0.0846 | 0.034 | - | 12/19/2024 13:30 | MJR,NIC3 |
| 57 | wg2010974-2 wg2010974 | 2.500 | 2.500 | 2.500 | 2.6482 | 2.6547 | 1.062 | - | 12/19/2024 13:34 | MJR,NIC3 |
| 58 | l2473051-01 wg2010974 | 2.500 | 2.500 | 2.500 | 0.0641 | 0.0799 | 0.032 | - | 12/19/2024 13:37 | MJR,NIC3 |
| 59 | wg2010974-3 wg2010974 | 2.500 | 2.500 | 2.500 | 13.1052 | 13.0741 | 5.230 | - | 12/19/2024 13:40 | MJR,NIC3 |
| 60 | wg2010974-4 wg2010974 | 2.500 | 2.500 | 2.500 | 0.0469 | 0.0628 | 0.025 | - | 12/19/2024 13:43 | MJR,NIC3 |
| 61 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 12.8203 | 12.7902 | 5.116 | 102.3 | 12/19/2024 13:47 | MJR,NIC3 |
| 62 | Check Blank | 2.500 | 2.500 | 2.500 | 0.0139 | 0.0299 | 0.012 | - | 12/19/2024 13:50 | MJR,NIC3 |
| 63 | l2473010-01 wg2010974 | 2.500 | 2.500 | 2.500 | 0.0504 | 0.0663 | 0.027 | - | 12/19/2024 14:03 | MJR,NIC3 |
| 64 | l2473010-02 wg2010974 | 2.500 | 2.500 | 2.500 | 0.0405 | 0.0564 | 0.023 | - | 12/19/2024 14:06 | MJR,NIC3 |
| 65 | l2473010-03 wg2010974 | 2.500 | 2.500 | 2.500 | 0.0351 | 0.0510 | 0.020 | - | 12/19/2024 14:09 | MJR,NIC3 |
| 66 | l2473051-02 wg2010974 | 2.500 | 2.500 | 2.500 | 0.0795 | 0.0953 | 0.038 | - | 12/19/2024 14:13 | MJR,NIC3 |
| 67 | l2473062-01 wg2010974 | 2.500 | 2.500 | 2.500 | 0.3154 | 0.3303 | 0.132 | - | 12/19/2024 14:16 | MJR,NIC3 |
| 68 | l2473175-01 wg2010974 | 2.500 | 2.500 | 2.500 | 0.1497 | 0.1652 | 0.066 | - | 12/19/2024 14:19 | MJR,NIC3 |
| 69 | l2473175-02 wg2010974 | 2.500 | 2.500 | 2.500 | 0.0868 | 0.1026 | 0.041 | - | 12/19/2024 14:22 | MJR,NIC3 |
| 70 | l2473205-01 wg2010974 | 2.500 | 2.500 | 2.500 | 0.0341 | 0.0500 | 0.020 | - | 12/19/2024 14:26 | MJR,NIC3 |

| No. | NAME | SVOL [mL] | CVOL [mL] | DVOL [mL] | AREA [ON] | MEAS [ng] | CONC [ug/L] | Recovery [%] | M. TIME | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| 71 | I2473205-02 wg2010974 | 2.500 | 2.500 | 2.500 | 0.0392 | 0.0551 | 0.022 | - | 12/19/2024 14:29 | MJR,NIC3 |
| 72 | I2473205-03 wg2010974 | 2.500 | 2.500 | 2.500 | 0.0354 | 0.0513 | 0.021 | - | 12/19/2024 14:32 | MJR,NIC3 |
| 73 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 12.8236 | 12.7935 | 5.117 | 102.3 | 12/19/2024 14:36 | MJR,NIC3 |
| 74 | Check Blank | 2.500 | 2.500 | 2.500 | 0.0132 | 0.0292 | 0.012 | - | 12/19/2024 14:39 | MJR,NIC3 |
| 75 | I2473205-04 wg2010974 | 2.500 | 2.500 | 2.500 | 0.0398 | 0.0557 | 0.022 | - | 12/19/2024 14:42 | MJR,NIC3 |
| 76 | I2473251-01 wg2010974 | 2.500 | 2.500 | 2.500 | 0.0620 | 0.0778 | 0.031 | - | 12/19/2024 14:46 | MJR,NIC3 |
| 77 | I2473251-02 wg2010974 | 2.500 | 2.500 | 2.500 | 0.0999 | 0.1156 | 0.046 | - | 12/19/2024 14:49 | MJR,NIC3 |
| 78 | I2473251-03 wg2010974 | 2.500 | 2.500 | 2.500 | 0.0433 | 0.0592 | 0.024 | - | 12/19/2024 14:52 | MJR,NIC3 |
| 79 | I2473561-03 wg2010974 | 2.500 | 2.500 | 2.500 | 0.1900 | 0.2054 | 0.082 | - | 12/19/2024 14:56 | MJR,NIC3 |
| 80 | I2473561-06 wg2010974 | 2.500 | 2.500 | 2.500 | 1.2394 | 1.2510 | 0.500 | - | 12/19/2024 14:59 | MJR,NIC3 |
| 81 | I2473616-01 wg2010974 | 2.500 | 2.500 | 2.500 | 0.2252 | 0.2405 | 0.096 | - | 12/19/2024 15:02 | MJR,NIC3 |
| 82 | I2473668-17 wg2010974 | 2.500 | 2.500 | 2.500 | 0.0377 | 0.0536 | 0.021 | - | 12/19/2024 15:05 | MJR,NIC3 |
| 83 | XXX10 PPB TEST | 2.500 | 2.500 | 2.500 | 17.6345 | 17.5871 | 7.035 | - | 12/19/2024 15:14 | MJR,NIC3 |
| 84 | wg2010983-1 wg2010983 | 2.500 | 2.500 | 2.500 | 0.0194 | 0.0354 | 0.014 | - | 12/19/2024 15:23 | MJR,NIC3 |
| 85 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 12.0592 | 12.0318 | 4.813 | 96.3 | 12/19/2024 15:27 | MJR,NIC3 |
| 86 | Check Blank | 2.500 | 2.500 | 2.500 | 0.0114 | 0.0274 | 0.011 | - | 12/19/2024 15:30 | MJR,NIC3 |
| 87 | wg2010983-2 wg2010983 | 2.500 | 2.500 | 2.500 | 3.6449 | 3.6478 | 1.459 | - | 12/19/2024 15:33 | MJR,NIC3 |
| 88 | wg2010983-3 wg2010983 | 2.500 | 2.500 | 2.500 | 2.6454 | 2.6519 | 1.061 | - | 12/19/2024 15:37 | MJR,NIC3 |
| 89 | I2473048-01 wg2010983 | 2.500 | 2.500 | 2.500 | 0.0196 | 0.0356 | 0.014 | - | 12/19/2024 15:40 | MJR,NIC3 |
| 90 | I2473048-02 wg2010983 | 2.500 | 2.500 | 2.500 | 0.0222 | 0.0382 | 0.015 | - | 12/19/2024 15:43 | MJR,NIC3 |
| 91 | I2473048-03 wg2010983 | 2.500 | 2.500 | 2.500 | 0.0528 | 0.0687 | 0.027 | - | 12/19/2024 15:47 | MJR,NIC3 |
| 92 | I2473048-04 wg2010983 | 2.500 | 2.500 | 2.500 | 0.0288 | 0.0448 | 0.018 | - | 12/19/2024 15:50 | MJR,NIC3 |
| 93 | I2473048-05 wg2010983 | 2.500 | 2.500 | 2.500 | 0.0294 | 0.0454 | 0.018 | - | 12/19/2024 15:53 | MJR,NIC3 |
| 94 | I2473048-06 wg2010983 | 2.500 | 2.500 | 2.500 | 0.0369 | 0.0528 | 0.021 | - | 12/19/2024 15:57 | MJR,NIC3 |
| 95 | I2473048-07 wg2010983 | 2.500 | 2.500 | 2.500 | 0.0292 | 0.0452 | 0.018 | - | 12/19/2024 16:00 | MJR,NIC3 |
| 96 | I2473048-08 wg2010983 | 2.500 | 2.500 | 2.500 | 0.0848 | 0.1006 | 0.040 | - | 12/19/2024 16:03 | MJR,NIC3 |
| 97 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 12.2227 | 12.1948 | 4.878 | 97.6 | 12/19/2024 16:07 | MJR,NIC3 |
| 98 | Check Blank | 2.500 | 2.500 | 2.500 | 0.0149 | 0.0309 | 0.012 | - | 12/19/2024 16:10 | MJR,NIC3 |
| 99 | I2473048-09 wg2010983 | 2.500 | 2.500 | 2.500 | 0.0600 | 0.0758 | 0.030 | - | 12/19/2024 16:13 | MJR,NIC3 |
| 100 | I2473048-10 wg2010983 | 2.500 | 2.500 | 2.500 | 0.0248 | 0.0408 | 0.016 | - | 12/19/2024 16:16 | MJR,NIC3 |
| 101 | wg2010983-2 wg2010983 | 2.500 | 2.500 | 2.500 | 3.6141 | 3.6171 | 1.447 | - | 12/19/2024 16:20 | DJR,NIC3 |
| 102 | wg2011000-1 wg2011000 | 2.500 | 2.500 | 2.500 | 0.0241 | 0.0401 | 0.016 | - | 12/19/2024 16:23 | DJR,NIC3 |

| No. | NAME | SVOL [mL] | CVOL [mL] | DVOL [mL] | AREA [ON] | MEAS [ng] | CONC [ug/L] | Recovery [%] | M. TIME | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| 103 | wg2011000-2 wg2011000 | 2.500 | 2.500 | 2.500 | 2.3842 | 2.3917 | 0.957 | - | 12/19/2024 16:26 | DJR,NIC3 |
| 104 | l2473137-01 wg2011000 | 2.500 | 2.500 | 2.500 | 0.0191 | 0.0351 | 0.014 | - | 12/19/2024 16:30 | DJR,NIC3 |
| 105 | wg2011000-3 wg2011000 | 2.500 | 2.500 | 2.500 | 11.6999 | 11.6738 | 4.670 | - | 12/19/2024 16:33 | DJR,NIC3 |
| 106 | wg2011000-4 wg2011000 | 2.500 | 2.500 | 2.500 | 0.0208 | 0.0368 | 0.015 | - | 12/19/2024 16:36 | DJR,NIC3 |
| 107 | l2473137-02 wg2011000 | 2.500 | 2.500 | 2.500 | 0.0367 | 0.0526 | 0.021 | - | 12/19/2024 16:40 | DJR,NIC3 |
| 108 | l2473137-03 wg2011000 | 2.500 | 2.500 | 2.500 | 0.0294 | 0.0454 | 0.018 | - | 12/19/2024 16:43 | DJR,NIC3 |
| 109 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 12.1962 | 12.1683 | 4.867 | 97.3 | 12/19/2024 16:46 | DJR,NIC3 |
| 110 | Check Blank | 2.500 | 2.500 | 2.500 | 0.0125 | 0.0285 | 0.011 | - | 12/19/2024 16:50 | DJR,NIC3 |
| 111 | l2473137-04 wg2011000 | 2.500 | 2.500 | 2.500 | 0.0285 | 0.0445 | 0.018 | - | 12/19/2024 16:53 | DJR,NIC3 |
| 112 | l2473137-05 wg2011000 | 2.500 | 2.500 | 2.500 | 0.0194 | 0.0354 | 0.014 | - | 12/19/2024 16:56 | DJR,NIC3 |
| 113 | wg2011351-1 wg2011351 | 2.500 | 2.500 | 2.500 | 0.0222 | 0.0382 | 0.015 | - | 12/19/2024 17:04 | DJR,NIC3 |
| 114 | wg2011351-2 wg2011351 | 2.500 | 2.500 | 2.500 | 2.3595 | 2.3671 | 0.947 | - | 12/19/2024 17:07 | DJR,NIC3 |
| 115 | wg2011351-3 wg2011351 | 2.500 | 2.500 | 2.500 | 2.2719 | 2.2798 | 0.912 | - | 12/19/2024 17:11 | DJR,NIC3 |
| 116 | l2474093-01 wg2011351 | 2.500 | 2.500 | 2.500 | 0.0379 | 0.0538 | 0.022 | - | 12/19/2024 17:14 | DJR,NIC3 |
| 117 | l2474093-02 wg2011351 | 2.500 | 2.500 | 2.500 | 0.1093 | 0.1250 | 0.050 | - | 12/19/2024 17:17 | DJR,NIC3 |
| 118 | l2474093-03 wg2011351 | 2.500 | 2.500 | 2.500 | 0.0275 | 0.0435 | 0.017 | - | 12/19/2024 17:20 | DJR,NIC3 |
| 119 | L2474093-04 WG2011351 | 2.500 | 2.500 | 2.500 | 0.0190 | 0.0350 | 0.014 | - | 12/19/2024 17:59 | DJR,NIC3 |
| 120 | L2474093-05 WG2011351 | 2.500 | 2.500 | 2.500 | 0.0181 | 0.0341 | 0.014 | - | 12/19/2024 18:02 | DJR,NIC3 |
| 121 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 12.0272 | 12.0000 | 4.800 | 96.0 | 12/19/2024 18:05 | DJR,NIC3 |
| 122 | Check Blank | 2.500 | 2.500 | 2.500 | 0.0126 | 0.0286 | 0.011 | - | 12/19/2024 18:08 | DJR,NIC3 |
| 123 | L2474093-06 WG2011351 | 2.500 | 2.500 | 2.500 | 0.0164 | 0.0324 | 0.013 | - | 12/19/2024 18:12 | DJR,NIC3 |
| 124 | L2474093-07 WG2011351 | 2.500 | 2.500 | 2.500 | 0.0201 | 0.0361 | 0.014 | - | 12/19/2024 18:15 | DJR,NIC3 |
| 125 | L2474093-08 WG2011351 | 2.500 | 2.500 | 2.500 | 0.0207 | 0.0367 | 0.015 | - | 12/19/2024 18:18 | DJR,NIC3 |
| 126 | L2474093-09 WG2011351 | 2.500 | 2.500 | 2.500 | 0.0233 | 0.0393 | 0.016 | - | 12/19/2024 18:22 | DJR,NIC3 |
| 127 | l2474093-10 wg2011351 | 2.500 | 2.500 | 2.500 | 0.0297 | 0.0457 | 0.018 | - | 12/19/2024 18:57 | DJR,NIC3 |
| 128 | l2474093-11 wg2011351 | 2.500 | 2.500 | 2.500 | 0.0253 | 0.0413 | 0.017 | - | 12/19/2024 19:00 | DJR,NIC3 |
| 129 | l2474093-12 wg2011351 | 2.500 | 2.500 | 2.500 | 0.0536 | 0.0695 | 0.028 | - | 12/19/2024 19:04 | DJR,NIC3 |
| 130 | l2474093-13 wg2011351 | 2.500 | 2.500 | 2.500 | 0.0257 | 0.0417 | 0.017 | - | 12/19/2024 19:07 | DJR,NIC3 |
| 131 | l2474093-14 wg2011351 | 2.500 | 2.500 | 2.500 | 0.0396 | 0.0555 | 0.022 | - | 12/19/2024 19:10 | DJR,NIC3 |
| 132 | l2474093-15 wg2011351 | 2.500 | 2.500 | 2.500 | 0.0242 | 0.0402 | 0.016 | - | 12/19/2024 19:13 | DJR,NIC3 |
| 133 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 12.5595 | 12.5303 | 5.012 | 100.2 | 12/19/2024 19:17 | DJR,NIC3 |
| 134 | Check Blank | 2.500 | 2.500 | 2.500 | 0.0203 | 0.0363 | 0.015 | - | 12/19/2024 19:20 | DJR,NIC3 |

| No. | NAME | SVOL [mL] | CVOL [mL] | DVOL [mL] | AREA [ON] | MEAS [ng] | CONC [ug/L] | Recovery [%] | M. TIME | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| 135 | I2474093-16 wg2011351 | 2.500 | 2.500 | 2.500 | 0.0244 | 0.0404 | 0.016 | - | 12/19/2024 19:23 | DJR,NIC3 |
| 136 | I2474093-17 wg2011351 | 2.500 | 2.500 | 2.500 | 0.0257 | 0.0417 | 0.017 | - | 12/19/2024 19:27 | DJR,NIC3 |
| 137 | I2474093-18 wg2011351 | 2.500 | 2.500 | 2.500 | 0.0255 | 0.0415 | 0.017 | - | 12/19/2024 19:30 | DJR,NIC3 |
| 138 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 12.3287 | 12.3004 | 4.920 | 98.4 | 12/19/2024 20:05 | DJR,NIC3 |
| 139 | Check Blank | 2.500 | 2.500 | 2.500 | 0.0216 | 0.0376 | 0.015 | - | 12/19/2024 20:08 | DJR,NIC3 |
| 140 | wg2010924-1 wg2010924 | 2.500 | 2.500 | 2.500 | 0.0168 | 0.0328 | 0.013 | - | 12/19/2024 21:40 | DJR,NIC3 |
| 141 | wg2010924-2 wg2010924 | 2.500 | 2.500 | 2.500 | 2.3608 | 2.3684 | 0.947 | - | 12/19/2024 21:43 | DJR,NIC3 |
| 142 | L2474329-01 wg2010924 | 2.500 | 2.500 | 2.500 | 0.0120 | 0.0280 | 0.011 | - | 12/19/2024 21:46 | DJR,NIC3 |
| 143 | wg2010924-3 wg2010924 | 2.500 | 2.500 | 2.500 | 11.8602 | 11.8336 | 4.733 | - | 12/19/2024 21:50 | DJR,NIC3 |
| 144 | wg2010924-4 wg2010924 | 2.500 | 2.500 | 2.500 | 0.0130 | 0.0290 | 0.012 | - | 12/19/2024 21:53 | DJR,NIC3 |
| 145 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 12.3956 | 12.3670 | 4.947 | 98.9 | 12/19/2024 21:56 | DJR,NIC3 |
| 146 | Check Blank | 2.500 | 2.500 | 2.500 | 0.0175 | 0.0335 | 0.013 | - | 12/19/2024 22:00 | DJR,NIC3 |

Title :
Date : 12/19/2024
Name :

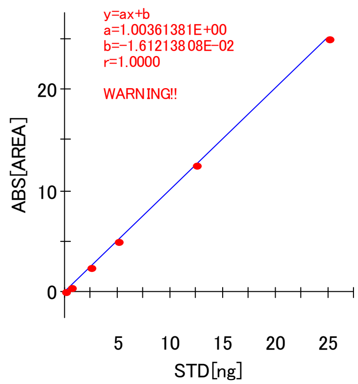
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib




STD

| No. | STD [ug/L] | SVOL [mL] | CVOL [mL] | DVOL [mL] | STD [ng] | AREA [ON] | MEAS [ng] | Dev [%] | M. TIME | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.000 | 2.500 | 2.500 | 2.500 | 0.000 | 0.0156 | 0.0316 | - | 12/19/2024 09:09 | MJR,NIC3 |
| 2 | 0.200 | 2.500 | 2.500 | 2.500 | 0.500 | 0.4917 | 0.5060 | 1.2 | 12/19/2024 09:13 | MJR,NIC3 |
| 3 | 1.000 | 2.500 | 2.500 | 2.500 | 2.500 | 2.3935 | 2.4009 | 4.0 | 12/19/2024 09:16 | MJR,NIC3 |
| 4 | 2.000 | 2.500 | 2.500 | 2.500 | 5.000 | 5.0148 | 5.0128 | 0.3 | 12/19/2024 09:19 | MJR,NIC3 |
| 5 | 5.000 | 2.500 | 2.500 | 2.500 | 12.500 | 12.6122 | 12.5828 | 0.7 | 12/19/2024 09:23 | MJR,NIC3 |
| 6 | 10.000 | 2.500 | 2.500 | 2.500 | 25.000 | 25.0399 | 24.9658 | 0.1 | 12/19/2024 09:33 | MJR,NIC3 |

SMP

| No. | NAME | SVOL [mL] | CVOL [mL] | DVOL [mL] | AREA [ON] | MEAS [ng] | CONC [ug/L] | Recovery [%] | M. TIME | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | L2474329-02 wg2010924 | 2.500 | 2.500 | 2.500 | 0.0157 | 0.0317 | 0.013 | - | 12/19/2024 22:24 | DJR,NIC3 |
| 2 | wg2010924-5 wg2010924 | 2.500 | 2.500 | 2.500 | 11.6479 | 11.6220 | 4.649 | - | 12/19/2024 22:28 | DJR,NIC3 |
| 3 | wg2010924-6 wg2010924 | 2.500 | 2.500 | 2.500 | 0.0173 | 0.0333 | 0.013 | - | 12/19/2024 22:31 | DJR,NIC3 |
| 4 | L2473538-01 wg2010924 | 2.500 | 2.500 | 2.500 | 0.0182 | 0.0342 | 0.014 | - | 12/19/2024 22:34 | DJR,NIC3 |
| 5 | L2473538-02 wg2010924 | 2.500 | 2.500 | 2.500 | 0.0189 | 0.0349 | 0.014 | - | 12/19/2024 22:38 | DJR,NIC3 |
| 6 | L2473538-03 wg2010924 | 2.500 | 2.500 | 2.500 | 0.0166 | 0.0326 | 0.013 | - | 12/19/2024 22:41 | DJR,NIC3 |

| No. | NAME | SVOL [mL] | CVOL [mL] | DVOL [mL] | AREA [ON] | MEAS [ng] | CONC [ug/L] | Recovery [%] | M. TIME | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| 7 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 12.2021 | 12.1742 | 4.870 | 97.4 | 12/19/2024 22:45 | DJR,NIC3 |
| 8 | Check Blank | 2.500 | 2.500 | 2.500 | 0.0238 | 0.0398 | 0.016 | - | 12/19/2024 22:48 | DJR,NIC3 |
| 9 | I2473538-04 WG2010924 | 2.500 | 2.500 | 2.500 | 0.0184 | 0.0344 | 0.014 | - | 12/19/2024 23:52 | DJR,NIC3 |
| 10 | I2473538-05 WG2010924 | 2.500 | 2.500 | 2.500 | 0.0177 | 0.0337 | 0.013 | - | 12/19/2024 23:55 | DJR,NIC3 |
| 11 | I2473756-01 WG2010924 | 2.500 | 2.500 | 2.500 | 0.0173 | 0.0333 | 0.013 | - | 12/19/2024 23:58 | DJR,NIC3 |
| 12 | I2474304-01 WG2010924 | 2.500 | 2.500 | 2.500 | 0.1660 | 0.1815 | 0.073 | - | 12/20/2024 00:02 | DJR,NIC3 |
| 13 | I2474304-02 WG2010924 | 2.500 | 2.500 | 2.500 | 0.0173 | 0.0333 | 0.013 | - | 12/20/2024 00:05 | DJR,NIC3 |
| 14 | I2474329-03 WG2010924 | 2.500 | 2.500 | 2.500 | 0.0166 | 0.0326 | 0.013 | - | 12/20/2024 00:08 | DJR,NIC3 |
| 15 | I2474329-04 WG2010924 | 2.500 | 2.500 | 2.500 | 0.0187 | 0.0347 | 0.014 | - | 12/20/2024 00:12 | DJR,NIC3 |
| 16 | I2474329-05 WG2010924 | 2.500 | 2.500 | 2.500 | 0.0174 | 0.0334 | 0.013 | - | 12/20/2024 00:15 | DJR,NIC3 |
| 17 | XCLR SOL | 2.500 | 2.500 | 2.500 | 0.0229 | 0.0389 | 0.016 | - | 12/20/2024 00:18 | DJR,NIC3 |
| 18 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 12.5654 | 12.5362 | 5.014 | 100.3 | 12/20/2024 00:21 | DJR,NIC3 |
| 19 | Check Blank | 2.500 | 2.500 | 2.500 | 0.0207 | 0.0367 | 0.015 | - | 12/20/2024 00:25 | DJR,NIC3 |
| 20 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 12.5844 | 12.5551 | 5.022 | 100.4 | 12/20/2024 00:28 | DJR,NIC3 |
| 21 | Check Blank | 2.500 | 2.500 | 2.500 | 0.0179 | 0.0339 | 0.014 | - | 12/20/2024 00:31 | DJR,NIC3 |

Title :
Date : 12/23/2024
Name :

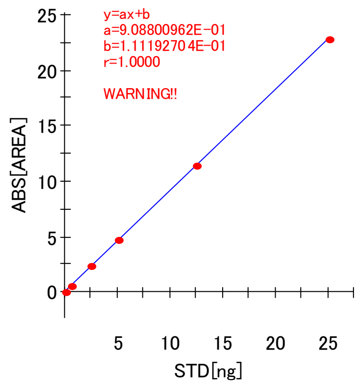
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib




STD

| No. | STD [ug/L] | SVOL [mL] | CVOL [mL] | DVOL [mL] | STD [ng] | AREA [ON] | MEAS [ng] | Dev [%] | M. TIME | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.000 | 2.500 | 2.500 | 2.500 | 0.000 | 0.1272 | 0.0176 | - | 12/23/2024 07:16 | JWN,NIC1 |
| 2 | 0.200 | 2.500 | 2.500 | 2.500 | 0.500 | 0.5810 | 0.5170 | 3.4 | 12/23/2024 07:19 | JWN,NIC1 |
| 3 | 1.000 | 2.500 | 2.500 | 2.500 | 2.500 | 2.3366 | 2.4487 | 2.1 | 12/23/2024 07:22 | JWN,NIC1 |
| 4 | 2.000 | 2.500 | 2.500 | 2.500 | 5.000 | 4.7158 | 5.0667 | 1.3 | 12/23/2024 07:26 | JWN,NIC1 |
| 5 | 5.000 | 2.500 | 2.500 | 2.500 | 12.500 | 11.395 | 12.4171 | 0.7 | 12/23/2024 07:29 | JWN,NIC1 |
| 6 | 10.000 | 2.500 | 2.500 | 2.500 | 25.000 | 22.861 | 25.0329 | 0.1 | 12/23/2024 07:33 | JWN,NIC1 |

SMP

| No. | NAME | SVOL [mL] | CVOL [mL] | DVOL [mL] | AREA [ON] | MEAS [ng] | CONC [ug/L] | Recovery [%] | M. TIME | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ICV | 2.500 | 2.500 | 2.500 | 6.7727 | 7.3300 | 2.932 | - | 12/23/2024 07:37 | JWN,NIC1 |
| 2 | ICB | 2.500 | 2.500 | 2.500 | 0.1366 | 0.0280 | 0.011 | - | 12/23/2024 07:40 | JWN,NIC1 |
| 3 | WG2012250-1 WG2012250 | 2.500 | 2.500 | 2.500 | 0.1552 | 0.0484 | 0.019 | - | 12/23/2024 07:55 | JWN,NIC1 |
| 4 | WG2012250-2 WG2012250 | 2.500 | 2.500 | 2.500 | 2.2840 | 2.3909 | 0.956 | - | 12/23/2024 07:58 | JWN,NIC1 |
| 5 | I2473456-01 WG2012250 | 2.500 | 2.500 | 2.500 | 0.2241 | 0.1242 | 0.050 | - | 12/23/2024 08:02 | JWN,NIC1 |
| 6 | WG2012250-3 WG2012250 | 2.500 | 2.500 | 2.500 | 12.1352 | 13.2306 | 5.292 | - | 12/23/2024 08:05 | JWN,NIC1 |

| No. | NAME | SVOL [mL] | CVOL [mL] | DVOL [mL] | AREA [ON] | MEAS [ng] | CONC [ug/L] | Recovery [%] | M. TIME | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| 7 | WG2012250-4 WG2012250 | 2.500 | 2.500 | 2.500 | 0.1364 | 0.0277 | 0.011 | - | 12/23/2024 08:08 | JWN,NIC1 |
| 8 | WG2012267-1 WG2012267 | 2.500 | 2.500 | 2.500 | 0.1312 | 0.0220 | 0.009 | - | 12/23/2024 08:12 | JWN,NIC1 |
| 9 | WG2012267-2 WG2012267 | 2.500 | 2.500 | 2.500 | 2.5036 | 2.6325 | 1.053 | - | 12/23/2024 08:15 | JWN,NIC1 |
| 10 | I2473646-01 WG2012267 | 2.500 | 2.500 | 2.500 | 0.1817 | 0.0776 | 0.031 | - | 12/23/2024 08:18 | JWN,NIC1 |
| 11 | WG2012267-3 WG2012267 | 2.500 | 2.500 | 2.500 | 12.2358 | 13.3413 | 5.337 | - | 12/23/2024 08:22 | JWN,NIC1 |
| 12 | WG2012267-4 WG2012267 | 2.500 | 2.500 | 2.500 | 0.1828 | 0.0788 | 0.032 | - | 12/23/2024 08:25 | JWN,NIC1 |
| 13 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 11.3674 | 12.3858 | 4.954 | 99.1 | 12/23/2024 08:28 | JWN,NIC1 |
| 14 | Check Blank | 2.500 | 2.500 | 2.500 | 0.1419 | 0.0338 | 0.014 | - | 12/23/2024 08:32 | JWN,NIC1 |
| 15 | WG2012228-1 WG2012228 | 2.500 | 2.500 | 2.500 | 0.1239 | 0.0140 | 0.006 | - | 12/23/2024 09:00 | JWN,NIC1 |
| 16 | WG2012228-2 WG2012228 | 2.500 | 2.500 | 2.500 | 2.3778 | 2.4941 | 0.998 | - | 12/23/2024 09:03 | JWN,NIC1 |
| 17 | L2473377-01 WG2012228 | 2.500 | 2.500 | 2.500 | 0.1409 | 0.0327 | 0.013 | - | 12/23/2024 09:07 | JWN,NIC1 |
| 18 | WG2012228-3 WG2012228 | 2.500 | 2.500 | 2.500 | 11.3934 | 12.4144 | 4.966 | - | 12/23/2024 09:10 | JWN,NIC1 |
| 19 | WG2012228-4 WG2012228 | 2.500 | 2.500 | 2.500 | 0.1436 | 0.0357 | 0.014 | - | 12/23/2024 09:13 | JWN,NIC1 |
| 20 | WG2012187-1 WG2012187 | 2.500 | 2.500 | 2.500 | 0.1384 | 0.0299 | 0.012 | - | 12/23/2024 09:16 | JWN,NIC1 |
| 21 | WG2012187-2 WG2012187 | 2.500 | 2.500 | 2.500 | 2.4345 | 2.5565 | 1.023 | - | 12/23/2024 09:20 | JWN,NIC1 |
| 22 | I2473368-03 WG2012187 | 2.500 | 2.500 | 2.500 | 0.1405 | 0.0322 | 0.013 | - | 12/23/2024 09:23 | JWN,NIC1 |
| 23 | WG2012187-3 WG2012187 | 2.500 | 2.500 | 2.500 | 11.6463 | 12.6927 | 5.077 | - | 12/23/2024 09:26 | JWN,NIC1 |
| 24 | WG2012187-4 WG2012187 | 2.500 | 2.500 | 2.500 | 0.1421 | 0.0340 | 0.014 | - | 12/23/2024 09:30 | JWN,NIC1 |
| 25 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 11.4125 | 12.4354 | 4.974 | 99.5 | 12/23/2024 09:33 | JWN,NIC1 |
| 26 | Check Blank | 2.500 | 2.500 | 2.500 | 0.1610 | 0.0548 | 0.022 | - | 12/23/2024 09:36 | JWN,NIC1 |
| 27 | WG2012441-1 WG2012441 | 2.500 | 2.500 | 2.500 | 0.4081 | 0.3267 | 0.131 | - | 12/23/2024 10:03 | JWN,NIC1 |
| 28 | WG2012441-2 WG2012441 | 2.500 | 2.500 | 2.500 | 2.6407 | 2.7833 | 1.113 | - | 12/23/2024 10:06 | JWN,NIC1 |
| 29 | L2474329-01 WG2012441 | 2.500 | 2.500 | 2.500 | 0.3317 | 0.2426 | 0.097 | - | 12/23/2024 10:10 | JWN,NIC1 |
| 30 | WG2012441-3 WG2012441 | 2.500 | 2.500 | 2.500 | 10.6183 | 11.5615 | 4.625 | - | 12/23/2024 10:13 | JWN,NIC1 |
| 31 | WG2012441-4 WG2012441 | 2.500 | 2.500 | 2.500 | 0.1544 | 0.0475 | 0.019 | - | 12/23/2024 10:16 | JWN,NIC1 |
| 32 | L2473927-01 WG2012441 | 2.500 | 2.500 | 2.500 | 0.1521 | 0.0450 | 0.018 | - | 12/23/2024 10:19 | JWN,NIC1 |
| 33 | L2473927-02 WG2012441 | 2.500 | 2.500 | 2.500 | 0.2970 | 0.2045 | 0.082 | - | 12/23/2024 10:23 | JWN,NIC1 |
| 34 | L2474329-02 WG2012441 | 2.500 | 2.500 | 2.500 | 0.2359 | 0.1372 | 0.055 | - | 12/23/2024 10:26 | JWN,NIC1 |
| 35 | L2474329-03 WG2012441 | 2.500 | 2.500 | 2.500 | 0.2040 | 0.1021 | 0.041 | - | 12/23/2024 10:29 | JWN,NIC1 |
| 36 | L2474329-04 WG2012441 | 2.500 | 2.500 | 2.500 | 0.1761 | 0.0714 | 0.029 | - | 12/23/2024 10:33 | JWN,NIC1 |
| 37 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 11.3397 | 12.3553 | 4.942 | 98.8 | 12/23/2024 10:36 | JWN,NIC1 |
| 38 | Check Blank | 2.500 | 2.500 | 2.500 | 0.1682 | 0.0627 | 0.025 | - | 12/23/2024 10:39 | JWN,NIC1 |

| No. | NAME | SVOL [mL] | CVOL [mL] | DVOL [mL] | AREA [ON] | MEAS [ng] | CONC [ug/L] | Recovery [%] | M. TIME | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| 39 | L2474329-05 WG2012441 | 2.500 | 2.500 | 2.500 | 0.1551 | 0.0483 | 0.019 | - | 12/23/2024 10:47 | JWN,NIC1 |
| 40 | Check STD(5ug/L) | 2.500 | 2.500 | 2.500 | 11.2142 | 12.2172 | 4.887 | 97.7 | 12/23/2024 11:49 | JWN,NIC1 |
| 41 | Check Blank | 2.500 | 2.500 | 2.500 | 0.1536 | 0.0467 | 0.019 | - | 12/23/2024 11:52 | JWN,NIC1 |

MERCURY TRUE VALUE CRITERIA

| | |
|---|---|
| ICV | 3 ug/l |
| LCSW | 1 ug/l |
| MS | 1 ug/l |
| CCV | 5 ug/l |

As of 6/1/13, Mercury True Value criteria is as follows:

| | |
|---|---|
| ICV | 3 ug/l |
| LCSW | 1 ug/l |
| MS(aq) | 5 ug/l |
| MS(soil) | 1 ug/l |
| CCV | 10 ug/l |

# ▪ Certificate of Analysis ▪

**Product:** Metals in Soil
**Catalog Number:** 540
**Lot No.** D102-540
**Certificate Issue Date:** June 22, 2018
**Expiration Date:** January 31, 2022
**Revision Number:** Original

*Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.*

## CERTIFICATION

| Parameter | Certified Value[1] | Reference Value | Uncertainty[2] | QC Performance Acceptance Limits[3] | PT Performance Acceptance Limits[4] |
|---|---|---|---|---|---|
| | mg/kg | mg/kg | % | mg/kg | mg/kg |
| Aluminum | 10100 | 8160 | 6.36 | 3960 - 12400 | 4080 - 12200 |
| Antimony | 120 | 60.9 | 9.42 | 0.822 - 121 | 12.0 - 166 |
| Arsenic | 144 | 135 | 5.08 | 112 - 158 | 94.6 - 176 |
| Barium | 469 | 443 | 6.77 | 366 - 521 | 332 - 554 |
| Beryllium | 207 | 197 | 5.86 | 164 - 229 | 148 - 246 |
| Boron | 213 | 174 | 12.6 | 127 - 221 | 105 - 244 |
| Cadmium | 224 | 204 | 6.65 | 169 - 240 | 153 - 256 |
| Calcium | 5190 | 4830 | 9.12 | 3950 - 5700 | 3510 - 6150 |
| Chromium | 138 | 132 | 8.56 | 109 - 155 | 92.2 - 171 |
| Cobalt | 182 | 179 | 7.93 | 151 - 207 | 134 - 224 |
| Copper | 191 | 184 | 6.72 | 155 - 213 | 138 - 230 |
| Iron | 15000 | 14400 | 10.7 | 8770 - 20000 | 5120 - 23600 |
| Lead | 225 | 216 | 7.72 | 178 - 254 | 159 - 274 |
| Magnesium | 2570 | 2340 | 6.13 | 1780 - 2900 | 1460 - 3230 |
| Manganese | 331 | 323 | 6.71 | 266 - 380 | 242 - 404 |
| Mercury | 16.8 | 13.2 | 16.0 | 8.64 - 17.7 | 7.89 - 18.5 |
| Molybdenum | 193 | 175 | 2.39 | 141 - 209 | 125 - 226 |
| Nickel | 163 | 152 | 5.95 | 126 - 178 | 106 - 197 |
| Potassium | 2420 | 2050 | 6.31 | 1440 - 2660 | 1210 - 2890 |
| Selenium | 81.9 | 74.9 | 4.13 | 59.3 - 90.5 | 47.0 - 103 |
| Silver | 57.6 | 53.9 | 9.00 | 43.0 - 64.8 | 37.8 - 70.0 |
| Sodium | 161 | 149 | 12.1 | 111 - 188 | 57.7 - 241 |
| Strontium | 100 | 96.2 | 4.04 | 78.1 - 114 | 69.0 - 123 |
| Thallium | 253 | 232 | 3.54 | 188 - 276 | 168 - 296 |



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| Parameter | Certified Value[1] | Reference Value | Uncertainty[2] | QC Performance Acceptance Limits[3] | PT Performance Acceptance Limits[4] |
|---|---|---|---|---|---|
| | mg/kg | mg/kg | % | mg/kg | mg/kg |
| Tin | 146 | 134 | 10.8 | 106 - 163 | 79.5 - 189 |
| Titanium | 449 | 340 | 7.20 | 70.2 - 609 | 44.9 - 711 |
| Uranium | 114 | 113 | 7.10 | 85.5 - 140 | 71.9 - 153 |
| Vanadium | 180 | 172 | 8.85 | 137 - 207 | 126 - 218 |
| Zinc | 217 | 211 | 6.58 | 171 - 250 | 147 - 274 |

## ANALYTICAL VERIFICATION

| Parameter | Certified Value[1] | Proficiency Testing Study | | | NIST Traceability | |
|---|---|---|---|---|---|---|
| | | Mean | Recovery[5] | n | SRM Number | Recovery |
| | mg/kg | mg/kg | % | | | % |
| Aluminum | 10100 | 8160 | 80.8 | 138 | - | - |
| Antimony | 120 | 60.9 | 50.8 | 135 | - | - |
| Arsenic | 144 | 135 | 93.8 | 184 | - | - |
| Barium | 469 | 443 | 94.5 | 158 | - | - |
| Beryllium | 207 | 197 | 95.0 | 148 | - | - |
| Boron | 213 | 174 | 81.8 | 107 | - | - |
| Cadmium | 224 | 204 | 91.3 | 199 | - | - |
| Calcium | 5190 | 4830 | 93.0 | 122 | - | - |
| Chromium | 138 | 132 | 95.5 | 172 | - | - |
| Cobalt | 182 | 179 | 98.4 | 140 | - | - |
| Copper | 191 | 184 | 96.3 | 183 | - | - |
| Iron | 15000 | 14400 | 95.6 | 133 | - | - |
| Lead | 225 | 216 | 96.2 | 204 | - | - |
| Magnesium | 2570 | 2340 | 91.2 | 122 | - | - |
| Manganese | 331 | 323 | 97.6 | 147 | - | - |
| Mercury | 16.8 | 13.2 | 78.3 | 128 | - | - |
| Molybdenum | 193 | 175 | 90.8 | 143 | - | - |
| Nickel | 163 | 152 | 93.1 | 185 | - | - |
| Potassium | 2420 | 2050 | 84.7 | 121 | - | - |
| Selenium | 81.9 | 74.9 | 91.5 | 163 | - | - |



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| Parameter | Certified Value[1] | Proficiency Testing Study | | n | NIST Traceability | |
|---|---|---|---|---|---|---|
| | | Mean | Recovery[5] | n | SRM Number | Recovery |
| | mg/kg | mg/kg | % | | | % |
| Silver | 57.6 | 53.9 | 93.6 | 150 | - | - |
| Sodium | 161 | 149 | 92.8 | 105 | - | - |
| Strontium | 100 | 96.2 | 96.2 | 90 | - | - |
| Thallium | 253 | 232 | 91.6 | 147 | - | - |
| Tin | 146 | 134 | 92.0 | 100 | - | - |
| Titanium | 449 | 340 | 75.6 | 93 | - | - |
| Uranium | 114 | 113 | 98.8 | 35 | - | - |
| Vanadium | 180 | 172 | 95.4 | 139 | - | - |
| Zinc | 217 | 211 | 97.0 | 180 | - | - |

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
**Traceability Recovery (%)** = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

**If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.**

**Certifying Officer**

**Brian Miller**

Brian Miller

**Quality Officer**

**Matthew Seebeck**

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02



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ERA

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Reference Material

# ▪ Certificate of Analysis ▪

**Product:** Metals in Soil
**Catalog Number:** 540
**Lot No.** D105-540
**Certificate Issue Date:** March 19, 2019
**Expiration Date:** October 12, 2022
**Revision Number:** Original

*Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.*

## CERTIFICATION

| Parameter | Certified Value[1] | Reference Value | Uncertainty[2] | QC Performance Acceptance Limits[3] | PT Performance Acceptance Limits[4] |
|---|---|---|---|---|---|
| | mg/kg | mg/kg | % | mg/kg | mg/kg |
| Aluminum | 10100 | 8800 | 8.32 | 4600 - 13000 | 4470 - 13100 |
| Antimony | 282 | 147 | 7.70 | 6.17 - 289 | 28.2 - 366 |
| Arsenic | 155 | 143 | 6.34 | 119 - 168 | 100 - 186 |
| Barium | 439 | 415 | 5.37 | 343 - 488 | 311 - 519 |
| Beryllium | 192 | 179 | 2.78 | 149 - 210 | 134 - 224 |
| Boron | 216 | 160 | 7.08 | 113 - 208 | 96.1 - 238 |
| Cadmium | 61.5 | 56.2 | 0.528 | 46.6 - 65.9 | 42.2 - 70.3 |
| Calcium | 5190 | 4960 | 6.64 | 4090 - 5840 | 3610 - 6310 |
| Chromium | 104 | 101 | 4.75 | 83.2 - 118 | 70.5 - 131 |
| Cobalt | 196 | 189 | 0.500 | 158 - 219 | 141 - 236 |
| Copper | 65.0 | 63.1 | 2.65 | 53.1 - 73.1 | 47.3 - 78.9 |
| Iron | 15000 | 15700 | 8.94 | 10100 - 21300 | 6000 - 25400 |
| Lead | 126 | 125 | 4.77 | 103 - 146 | 89.3 - 160 |
| Magnesium | 2570 | 2410 | 6.26 | 1860 - 2970 | 1520 - 3310 |
| Manganese | 387 | 382 | 5.37 | 315 - 449 | 290 - 474 |
| Mercury | 7.76 | 7.61 | 13.7 | 5.53 - 9.69 | 4.57 - 10.7 |
| Molybdenum | 120 | 107 | 0.500 | 86.0 - 128 | 75.5 - 139 |
| Nickel | 117 | 108 | 0.514 | 89.5 - 127 | 75.7 - 141 |
| Potassium | 2420 | 2110 | 5.62 | 1500 - 2720 | 1260 - 2960 |
| Selenium | 84.6 | 77.9 | 7.10 | 61.8 - 94.0 | 49.2 - 107 |
| Silver | 34.6 | 34.3 | 8.34 | 27.8 - 40.9 | 23.6 - 45.1 |
| Sodium | 161 | 145 | 6.72 | 106 - 183 | 54.3 - 235 |
| Strontium | 104 | 104 | 3.95 | 85.1 - 123 | 74.8 - 133 |
| Thallium | 123 | 113 | 0.500 | 91.3 - 134 | 77.1 - 149 |



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| Parameter | Certified Value[1] | Reference Value | Uncertainty[2] | QC Performance Acceptance Limits[3] | PT Performance Acceptance Limits[4] |
|---|---|---|---|---|---|
| | mg/kg | mg/kg | % | mg/kg | mg/kg |
| Tin | 118 | 107 | 0.500 | 83.5 - 130 | 61.2 - 152 |
| Titanium | 512 | 421 | 5.80 | 114 - 728 | 0.00 - 854 |
| Uranium | 103 | 104 | 6.18 | 79.1 - 128 | 71.9 - 135 |
| Vanadium | 87.3 | 83.7 | 8.55 | 66.8 - 101 | 54.2 - 113 |
| Zinc | 251 | 240 | 3.98 | 194 - 285 | 168 - 312 |

## ANALYTICAL VERIFICATION

| Parameter | Certified Value[1] | Proficiency Testing Study | | | NIST Traceability | |
|---|---|---|---|---|---|---|
| | | Mean | Recovery[5] | n | SRM Number | Recovery |
| | mg/kg | mg/kg | % | | | % |
| Aluminum | 10100 | 8800 | 87.1 | 193 | - | - |
| Antimony | 282 | 147 | 52.3 | 216 | - | - |
| Arsenic | 155 | 143 | 92.5 | 240 | - | - |
| Barium | 439 | 415 | 94.6 | 222 | - | - |
| Beryllium | 192 | 179 | 93.4 | 220 | - | - |
| Boron | 216 | 160 | 74.2 | 152 | - | - |
| Cadmium | 61.5 | 56.2 | 91.5 | 239 | - | - |
| Calcium | 5190 | 4960 | 95.6 | 175 | - | - |
| Chromium | 104 | 101 | 96.8 | 237 | - | - |
| Cobalt | 196 | 189 | 96.2 | 215 | - | - |
| Copper | 65.0 | 63.1 | 97.1 | 237 | - | - |
| Iron | 15000 | 15700 | 105 | 195 | - | - |
| Lead | 126 | 125 | 99.0 | 243 | - | - |
| Magnesium | 2570 | 2410 | 93.9 | 177 | - | - |
| Manganese | 387 | 382 | 98.7 | 215 | - | - |
| Mercury | 7.76 | 7.61 | 98.0 | 157 | - | - |
| Molybdenum | 120 | 107 | 89.4 | 216 | - | - |
| Nickel | 117 | 108 | 92.5 | 235 | - | - |
| Potassium | 2420 | 2110 | 87.2 | 181 | - | - |
| Selenium | 84.6 | 77.9 | 92.1 | 231 | - | - |



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# ▪ Certificate of Analysis ▪

| Parameter | Certified Value[1] | Proficiency Testing Study | | n | NIST Traceability | |
|---|---|---|---|---|---|---|
| | | Mean | Recovery[5] | n | SRM Number | Recovery |
| | mg/kg | mg/kg | % | | | % |
| Silver | 34.6 | 34.3 | 99.3 | 216 | - | - |
| Sodium | 161 | 145 | 89.8 | 166 | - | - |
| Strontium | 104 | 104 | 99.9 | 148 | - | - |
| Thallium | 123 | 113 | 91.8 | 215 | - | - |
| Tin | 118 | 107 | 90.4 | 164 | - | - |
| Titanium | 512 | 421 | 82.2 | 157 | - | - |
| Uranium | 103 | 104 | 101 | 61 | - | - |
| Vanadium | 87.3 | 83.7 | 95.9 | 214 | - | - |
| Zinc | 251 | 240 | 95.5 | 234 | - | - |

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
**Traceability Recovery (%)** = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

**If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.**

**Certifying Officer**

**Brian Miller**

Brian Miller

**Quality Officer**

**Matthew Seebeck**

ERA

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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| Parameter | Certified Value[1] | Reference Value[7] | Uncertainty[2] | QC Performance Acceptance Limits[3] | PT Performance Acceptance Limits[4] |
|---|---|---|---|---|---|
| | mg/kg | mg/kg | % | mg/kg | mg/kg |
| Tin | 83.5 | 74.0 | 5.42 | 57.6 - 90.4 | 39.7 - 108 |
| Titanium | 474 | 333 | 7.17 | 48.6 - 617 | 46.3 - 620 |
| Uranium | 51.9 | 51.9 | 3.36 | 39.6 - 64.3 | 35.9 - 68.0 |
| Vanadium | 68.1 | 62.6 | 6.00 | 49.4 - 75.8 | 37.0 - 88.3 |
| Zinc | 165 | 158 | 2.34 | 128 - 188 | 111 - 205 |



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## ANALYTICAL VERIFICATION

| Parameter | Certified Value[1] | Proficiency Testing Study | | | NIST Traceability | |
|---|---|---|---|---|---|---|
| | | Mean | Recovery[5] | n | SRM Number[6] | Recovery |
| | mg/kg | mg/kg | % | | | % |
| Aluminum | 10100 | 8130 | 80.5 | 196 | - | - |
| Antimony | 259 | 134 | 51.8 | 217 | - | - |
| Arsenic | 171 | 156 | 91.3 | 243 | - | - |
| Barium | 253 | 239 | 94.3 | 230 | - | - |
| Beryllium | 179 | 169 | 94.6 | 223 | - | - |
| Boron | 114 | 87.5 | 76.7 | 150 | - | - |
| Cadmium | 149 | 137 | 91.8 | 249 | - | - |
| Calcium | 5190 | 4760 | 91.8 | 184 | - | - |
| Chromium | 163 | 154 | 94.4 | 245 | - | - |
| Cobalt | 127 | 121 | 95.3 | 221 | - | - |
| Copper | 57.0 | 54.9 | 96.2 | 243 | - | - |
| Iron | 15000 | 14100 | 93.9 | 199 | - | - |
| Lead | 133 | 130 | 97.7 | 251 | - | - |
| Magnesium | 2570 | 2320 | 90.1 | 182 | - | - |
| Manganese | 277 | 269 | 97.2 | 220 | - | - |
| Mercury | 21.6 | 20.5 | 94.7 | 172 | - | - |
| Molybdenum | 108 | 95.4 | 88.3 | 218 | - | - |
| Nickel | 58.7 | 53.9 | 91.8 | 242 | - | - |
| Potassium | 2420 | 2020 | 83.5 | 187 | - | - |
| Selenium | 181 | 167 | 92.2 | 235 | - | - |
| Silver | 35.5 | 33.6 | 94.5 | 222 | - | - |
| Sodium | 161 | 133 | 82.7 | 177 | - | - |
| Strontium | 89.7 | 87.9 | 98.0 | 151 | - | - |
| Thallium | 121 | 112 | 92.2 | 219 | - | - |
| Tin | 83.5 | 74.0 | 88.6 | 170 | - | - |
| Titanium | 474 | 333 | 70.3 | 157 | - | - |
| Uranium | 51.9 | 51.9 | 100 | 60 | - | - |
| Vanadium | 68.1 | 62.6 | 91.9 | 213 | - | - |
| Zinc | 165 | 158 | 95.8 | 238 | - | - |



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1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

Uexpanded = Expanded uncertainty.
k = Coverage factor.
Uchar = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
Uhomogen = Standard uncertainty of the homogeneity assessment.
ULTS = Standard uncertainty associated with long-term stability.
USTS = Standard uncertainty associated with short-term (transport) stability.
URSS = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

**If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.**

| | |
|---|---|
| **Certifying Officer** | **Quality Officer** |
| **Brian Miller** | **Matthew Seebeck** |
| Brian Miller | Matthew Seebeck |

ERA

A Waters Company

**Certified Reference Material**

# ▪ Certificate of Analysis ▪

**Product:** Metals in Soil
**Catalog Number:** 540
**Lot No.** D113-540
**Certificate Issue Date:** March 23, 2021
**Expiration Date:** October 13, 2024
**Revision Number:** Original

*Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.*

## CERTIFICATION

| Parameter | Certified Value[1] | Reference Value | Uncertainty[2] | QC Performance Acceptance Limits[3] | PT Performance Acceptance Limits[4] |
|---|---|---|---|---|---|
| | mg/kg | mg/kg | % | mg/kg | mg/kg |
| Aluminum | 10100 | 8630 | 12.0 | 4420 - 12800 | 4370 - 12900 |
| Antimony | 256 | 129 | 16.8 | 0.742 - 257 | 25.6 - 323 |
| Arsenic | 91.6 | 84.5 | 15.1 | 70.0 - 99.0 | 59.2 - 110 |
| Barium | 259 | 249 | 9.94 | 206 - 292 | 187 - 311 |
| Beryllium | 175 | 163 | 3.89 | 135 - 191 | 122 - 204 |
| Boron | 95.7 | 76.7 | 12.8 | 55.7 - 97.7 | 48.0 - 107 |
| Cadmium | 107 | 99.0 | 11.5 | 82.2 - 116 | 74.2 - 124 |
| Calcium | 5190 | 4760 | 11.8 | 3890 - 5640 | 3460 - 6070 |
| Chromium | 129 | 122 | 14.6 | 101 - 144 | 85.7 - 159 |
| Cobalt | 63.6 | 61.7 | 11.5 | 51.9 - 71.6 | 46.3 - 77.2 |
| Copper | 62.3 | 61.5 | 12.3 | 51.9 - 71.0 | 46.1 - 76.8 |
| Iron | 15000 | 14500 | 15.7 | 8860 - 20100 | 5190 - 23800 |
| Lead | 122 | 123 | 13.9 | 103 - 144 | 88.3 - 158 |
| Lithium | 6.42 | 7.30 | 18.7 | 5.13 - 9.48 | 3.20 - 11.4 |
| Magnesium | 2570 | 2360 | 8.87 | 1810 - 2920 | 1480 - 3250 |
| Manganese | 470 | 456 | 13.4 | 375 - 538 | 350 - 563 |
| Mercury | 22.1 | 18.9 | 14.5 | 13.0 - 24.8 | 11.3 - 26.4 |
| Molybdenum | 80.1 | 72.8 | 11.0 | 58.7 - 87.0 | 50.5 - 95.2 |
| Nickel | 143 | 135 | 14.2 | 112 - 158 | 94.7 - 176 |
| Potassium | 2420 | 2090 | 8.21 | 1480 - 2700 | 1240 - 2940 |
| Selenium | 128 | 121 | 11.7 | 96.9 - 146 | 80.4 - 162 |
| Silver | 45.4 | 44.1 | 6.69 | 35.5 - 52.8 | 30.7 - 57.6 |
| Sodium | 161 | 136 | 9.34 | 97.4 - 174 | 48.1 - 223 |
| Strontium | 82.2 | 82.3 | 8.42 | 67.4 - 97.1 | 58.6 - 106 |



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| Parameter | Certified Value[1] | Reference Value | Uncertainty[2] | QC Performance Acceptance Limits[3] | PT Performance Acceptance Limits[4] |
|---|---|---|---|---|---|
| | mg/kg | mg/kg | % | mg/kg | mg/kg |
| Thallium | 154 | 144 | 7.54 | 117 - 171 | 101 - 187 |
| Tin | 89.7 | 79.8 | 14.0 | 62.2 - 97.4 | 43.5 - 116 |
| Titanium | 705 | 546 | 10.3 | 123 - 969 | 118 - 974 |
| Uranium | 29.5 | 30.9 | 3.38 | 23.9 - 37.9 | 21.3 - 40.5 |
| Vanadium | 196 | 186 | 14.2 | 148 - 224 | 138 - 235 |
| Zinc | 307 | 295 | 10.4 | 240 - 351 | 207 - 384 |



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# Calculation of 7470A Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = (\text{concentration, µg/L}) \times (1\text{mg}/1000\text{µg}) \times (\text{DF})$$

## 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, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x ( 1mg/1000µg) x (DF)

The result in mg/kg is calculated on a dry weight basis using the sample weight digested(Wt), the final volume of the digestate(FV), and the percent total solids(%TS).

Result, mg/kg, wet = ((result, mg/L) x (FV)) /Wt

Result, mg/kg, dry wt = (Result, mg/kg wet)/(%TS)

| No. | Sample No. | NAME | CURVE: WG2010808 |
|---|---|---|---|
| 1 | 1 | STD | |
| 2 | 2 | STD | |
| 3 | 3 | STD | |
| 4 | 4 | STD | |
| 5 | 5 | STD | |
| 6 | 6 | STD | |
| 1 | 7 | XICV | |
| 2 | 8 | XICB | |
| 3 | 9 | ICV | |
| 4 | 10 | ICB | |
| 5 | 11 | wg2010805-1 wg2010805 | |
| 6 | 12 | wg2010805-2 wg2010805 | |
| 7 | 13 | l2472865-02 wg2010805 | |
| 8 | 14 | wg2010805-3 wg2010805 | |
| 9 | 15 | wg2010805-4 wg2010805 | |
| 10 | 16 | L2472865-01 WG2010805 | |
| 11 | 17 | L2472865-03 WG2010805 | |
| 12 | 18 | L2472865-04 WG2010805 | |
| 13 | 19 | Check STD(5ug/L) | |
| 14 | 20 | Check Blank | |
| 15 | 21 | L2472865-05 WG2010805 | |
| 16 | 22 | L2472865-06 WG2010805 | |
| 17 | 23 | L2472865-07 WG2010805 | |
| 18 | 24 | L2472865-08 WG2010805 | |
| 19 | 25 | L2472865-09 WG2010805 | |
| 20 | 26 | L2472865-10 WG2010805 | |
| 21 | 27 | L2472865-11 WG2010805 | |
| 22 | 28 | L2472865-12 WG2010805 | |
| 23 | 29 | L2472865-13 WG2010805 | |
| 24 | 30 | L2472865-14 WG2010805 | |
| 25 | 31 | Check STD(5ug/L) | |
| 26 | 32 | Check Blank | |
| 27 | 33 | L2472865-15 WG2010805 | |
| 28 | 34 | L2472865-16 WG2010805 | |
| 29 | 35 | L2472865-17 WG2010805 | |
| 30 | 36 | L2472865-18 WG2010805 | |
| 31 | 37 | L2472865-19 WG2010805 | |
| 32 | 38 | L2472865-21 WG2010805 | |
| 33 | 39 | wg2011117-1 wg2011117 | |
| 34 | 40 | wg2011117-2 wg2011117 | |
| 35 | 41 | l2472648-02 wg2011117 | |
| 36 | 42 | wg2011117-3 wg2011117 | |
| 37 | 43 | Check STD(5ug/L) | |

| | | | |
|---|---|---|---|
| 38 | 44 | Check Blank | |
| 39 | 45 | wg2011117-4 | wg2011117 |
| 40 | 46 | l2472648-04 | wg2011117 |
| 41 | 47 | l2472648-06 | wg2011117 |
| 42 | 48 | l2472649-02 | wg2011117 |
| 43 | 49 | l2472649-04 | wg2011117 |
| 44 | 50 | l2472649-06 | wg2011117 |
| 45 | 51 | l2472649-08 | wg2011117 |
| 46 | 52 | l2472649-10 | wg2011117 |
| 47 | 53 | l2472649-12 | wg2011117 |
| 48 | 54 | wg2010391-1 | wg2010391 |
| 49 | 55 | Check STD(5ug/L) | |
| 50 | 56 | Check Blank | |
| 51 | 57 | wg2010391-2 | wg2010391 |
| 52 | 58 | L2473408-01 | wg2010391 |
| 53 | 59 | wg2010391-3 | wg2010391 |
| 54 | 60 | wg2010391-4 | wg2010391 |
| 55 | 61 | L2473408-02 | wg2010391 |
| 56 | 62 | wg2010974-1 | wg2010974 |
| 57 | 63 | wg2010974-2 | wg2010974 |
| 58 | 64 | l2473051-01 | wg2010974 |
| 59 | 65 | wg2010974-3 | wg2010974 |
| 60 | 66 | wg2010974-4 | wg2010974 |
| 61 | 67 | Check STD(5ug/L) | |
| 62 | 68 | Check Blank | |
| 63 | 69 | l2473010-01 | wg2010974 |
| 64 | 70 | l2473010-02 | wg2010974 |
| 65 | 71 | l2473010-03 | wg2010974 |
| 66 | 72 | l2473051-02 | wg2010974 |
| 67 | 73 | l2473062-01 | wg2010974 |
| 68 | 74 | l2473175-01 | wg2010974 |
| 69 | 75 | l2473175-02 | wg2010974 |
| 70 | 76 | l2473205-01 | wg2010974 |
| 71 | 77 | l2473205-02 | wg2010974 |
| 72 | 78 | l2473205-03 | wg2010974 |
| 73 | 79 | Check STD(5ug/L) | |
| 74 | 80 | Check Blank | |
| 75 | 1 | l2473205-04 | wg2010974 |
| 76 | 2 | l2473251-01 | wg2010974 |
| 77 | 3 | l2473251-02 | wg2010974 |
| 78 | 4 | l2473251-03 | wg2010974 |
| 79 | 5 | l2473561-03 | wg2010974 |
| 80 | 6 | l2473561-06 | wg2010974 |
| 81 | 7 | l2473616-01 | wg2010974 |

| | | |
|---|---|---|
| 82 | 8 | l2473668-17 wg2010974 |
| 83 | 9 | XXX10 PPB TEST |
| 84 | 10 | wg2010983-1 wg2010983 |
| 85 | 11 | Check STD(5ug/L) |
| 86 | 12 | Check Blank |
| 87 | 13 | wg2010983-2 wg2010983 |
| 88 | 14 | wg2010983-3 wg2010983 |
| 89 | 15 | l2473048-01 wg2010983 |
| 90 | 16 | l2473048-02 wg2010983 |
| 91 | 17 | l2473048-03 wg2010983 |
| 92 | 18 | l2473048-04 wg2010983 |
| 93 | 19 | l2473048-05 wg2010983 |
| 94 | 20 | l2473048-06 wg2010983 |
| 95 | 21 | l2473048-07 wg2010983 |
| 96 | 22 | l2473048-08 wg2010983 |
| 97 | 23 | Check STD(5ug/L) |
| 98 | 24 | Check Blank |
| 99 | 25 | l2473048-09 wg2010983 |
| 100 | 26 | l2473048-10 wg2010983 |
| 101 | 27 | wg2010983-2 wg2010983 |
| 102 | 28 | wg2011000-1 wg2011000 |
| 103 | 29 | wg2011000-2 wg2011000 |
| 104 | 30 | l2473137-01 wg2011000 |
| 105 | 31 | wg2011000-3 wg2011000 |
| 106 | 32 | wg2011000-4 wg2011000 |
| 107 | 33 | l2473137-02 wg2011000 |
| 108 | 34 | l2473137-03 wg2011000 |
| 109 | 35 | Check STD(5ug/L) |
| 110 | 36 | Check Blank |
| 111 | 37 | l2473137-04 wg2011000 |
| 112 | 38 | l2473137-05 wg2011000 |
| 113 | 39 | wg2011351-1 wg2011351 |
| 114 | 40 | wg2011351-2 wg2011351 |
| 115 | 41 | wg2011351-3 wg2011351 |
| 116 | 42 | l2474093-01 wg2011351 |
| 117 | 43 | l2474093-02 wg2011351 |
| 118 | 44 | l2474093-03 wg2011351 |
| 119 | 45 | L2474093-04 WG2011351 |
| 120 | 46 | L2474093-05 WG2011351 |
| 121 | 47 | Check STD(5ug/L) |
| 122 | 48 | Check Blank |
| 123 | 49 | L2474093-06 WG2011351 |
| 124 | 50 | L2474093-07 WG2011351 |
| 125 | 51 | L2474093-08 WG2011351 |

| | | |
|---|---|---|
| 126 | 52 | L2474093-09 WG2011351 |
| 127 | 53 | l2474093-10 wg2011351 |
| 128 | 54 | l2474093-11 wg2011351 |
| 129 | 55 | l2474093-12 wg2011351 |
| 130 | 56 | l2474093-13 wg2011351 |
| 131 | 57 | l2474093-14 wg2011351 |
| 132 | 58 | l2474093-15 wg2011351 |
| 133 | 59 | Check STD(5ug/L) |
| 134 | 60 | Check Blank |
| 135 | 61 | l2474093-16 wg2011351 |
| 136 | 62 | l2474093-17 wg2011351 |
| 137 | 63 | l2474093-18 wg2011351 |
| 138 | 64 | Check STD(5ug/L) |
| 139 | 65 | Check Blank |
| 140 | 66 | wg2010924-1 wg2010924 |
| 141 | 67 | wg2010924-2 wg2010924 |
| 142 | 68 | L2474329-01 wg2010924 |
| 143 | 69 | wg2010924-3 wg2010924 |
| 144 | 70 | wg2010924-4 wg2010924 |
| 145 | 71 | Check STD(5ug/L) |
| 146 | 72 | Check Blank |
| 1 | 11 | L2474329-02 wg2010924 |
| 2 | 12 | wg2010924-5 wg2010924 |
| 3 | 13 | wg2010924-6 wg2010924 |
| 4 | 14 | L2473538-01 wg2010924 |
| 5 | 15 | L2473538-02 wg2010924 |
| 6 | 16 | L2473538-03 wg2010924 |
| 7 | 21 | Check STD(5ug/L) |
| 8 | 22 | Check Blank |
| 9 | 23 | l2473538-04 WG2010924 |
| 10 | 24 | l2473538-05 WG2010924 |
| 11 | 25 | l2473756-01 WG2010924 |
| 12 | 26 | l2474304-01 WG2010924 |
| 13 | 27 | l2474304-02 WG2010924 |
| 14 | 28 | l2474329-03 WG2010924 |
| 15 | 29 | l2474329-04 WG2010924 |
| 16 | 30 | l2474329-05 WG2010924 |
| 17 | 31 | XCLR SOL |
| 18 | 33 | Check STD(5ug/L) |
| 19 | 34 | Check Blank |
| 20 | 35 | Check STD(5ug/L) |
| 21 | 36 | Check Blank |

| No. | Sample No. | NAME | Curve: WG2010379 |
|---|---|---|---|
| 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 | WG2012250-1 | WG2012250 |
| 4 | 10 | WG2012250-2 | WG2012250 |
| 5 | 11 | l2473456-01 | WG2012250 |
| 6 | 12 | WG2012250-3 | WG2012250 |
| 7 | 13 | WG2012250-4 | WG2012250 |
| 8 | 14 | WG2012267-1 | WG2012267 |
| 9 | 15 | WG2012267-2 | WG2012267 |
| 10 | 16 | l2473646-01 | WG2012267 |
| 11 | 17 | WG2012267-3 | WG2012267 |
| 12 | 18 | WG2012267-4 | WG2012267 |
| 13 | 19 | Check STD(5ug/L) | |
| 14 | 20 | Check Blank | |
| 15 | 21 | WG2012228-1 | WG2012228 |
| 16 | 22 | WG2012228-2 | WG2012228 |
| 17 | 23 | L2473377-01 | WG2012228 |
| 18 | 24 | WG2012228-3 | WG2012228 |
| 19 | 25 | WG2012228-4 | WG2012228 |
| 20 | 26 | WG2012187-1 | WG2012187 |
| 21 | 27 | WG2012187-2 | WG2012187 |
| 22 | 28 | l2473368-03 | WG2012187 |
| 23 | 29 | WG2012187-3 | WG2012187 |
| 24 | 30 | WG2012187-4 | WG2012187 |
| 25 | 31 | Check STD(5ug/L) | |
| 26 | 32 | Check Blank | |
| 27 | 33 | WG2012441-1 | WG2012441 |
| 28 | 34 | WG2012441-2 | WG2012441 |
| 29 | 35 | L2474329-01 | WG2012441 |
| 30 | 36 | WG2012441-3 | WG2012441 |
| 31 | 37 | WG2012441-4 | WG2012441 |
| 32 | 38 | L2473927-01 | WG2012441 |
| 33 | 39 | L2473927-02 | WG2012441 |
| 34 | 40 | L2474329-02 | WG2012441 |
| 35 | 41 | L2474329-03 | WG2012441 |
| 36 | 42 | L2474329-04 | WG2012441 |
| 37 | 43 | Check STD(5ug/L) | |

| | | |
|---|---|---|
| 38 | 44 | Check Blank |
| 39 | 45 | L2474329-05 WG2012441 |
| 40 | 46 | Check STD(5ug/L) |
| 41 | 47 | Check Blank |

METALS ELN REPORT

**Workgroup: WG2010924**

## 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 | 24015917 | H2SO4 | 24001335 | METALS | METSPIKE | HG24490206 00AJT | METSPIKE | HG24490206 00AJT | 320, 344 |

| | | |
|---|---|---|
| **Additional Reagent/Std** | K2O8S2 | PS2450130030CLH |
| | KMnO4 | PP2451161200ADG |
| | NaCl-NH2OH.HCl | HH24501315MJR |
| | | ICV2449051040AJT |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L2473538-01 SAMP | 12/18/24 19:28 | Nathan Downs | 25 | | 12/18/24 19:28 | 5 | 94.5 | 12/18/24 21:28 | 25 | |
| L2473538-02 SAMP | 12/18/24 19:28 | Nathan Downs | 25 | | 12/18/24 19:28 | 5 | 94.5 | 12/18/24 21:28 | 25 | |
| L2473538-03 SAMP | 12/18/24 19:28 | Nathan Downs | 25 | | 12/18/24 19:28 | 5 | 94.5 | 12/18/24 21:28 | 25 | |
| L2473538-04 SAMP | 12/18/24 19:28 | Nathan Downs | 25 | | 12/18/24 19:28 | 5 | 94.5 | 12/18/24 21:28 | 25 | |
| L2473538-05 SAMP | 12/18/24 19:28 | Nathan Downs | 25 | | 12/18/24 19:28 | 5 | 94.5 | 12/18/24 21:28 | 25 | |
| L2473756-01 WATER | 12/18/24 19:28 | Nathan Downs | 25 | | 12/18/24 19:28 | 5 | 94.5 | 12/18/24 21:28 | 25 | |
| L2474304-01 SAMP | 12/18/24 19:28 | Nathan Downs | 25 | | 12/18/24 19:28 | 5 | 94.5 | 12/18/24 21:28 | 25 | |
| L2474304-02 SAMP | 12/18/24 19:28 | Nathan Downs | 25 | | 12/18/24 19:28 | 5 | 94.5 | 12/18/24 21:28 | 25 | |



Reported: 23-DEC-24 01:01 PM

# METALS ELN REPORT

**Workgroup: WG2010924**

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L2474329-01 SAMP | 12/18/24 19:28 | Nathan Downs | 25 | | 12/18/24 19:28 | 5 | 94.5 | 12/18/24 21:28 | 25 | |
| L2474329-02 SAMP | 12/18/24 19:28 | Nathan Downs | 25 | | 12/18/24 19:28 | 5 | 94.5 | 12/18/24 21:28 | 25 | |
| L2474329-03 SAMP | 12/18/24 19:28 | Nathan Downs | 25 | | 12/18/24 19:28 | 5 | 94.5 | 12/18/24 21:28 | 25 | |
| L2474329-04 SAMP | 12/18/24 19:28 | Nathan Downs | 25 | | 12/18/24 19:28 | 5 | 94.5 | 12/18/24 21:28 | 25 | |
| L2474329-05 SAMP | 12/18/24 19:28 | Nathan Downs | 25 | | 12/18/24 19:28 | 5 | 94.5 | 12/18/24 21:28 | 25 | |
| WG2010924-1 BLANK | 12/18/24 19:28 | Nathan Downs | 25 | | 12/18/24 19:28 | 5 | 94.5 | 12/18/24 21:28 | 25 | ELN: CLH |
| WG2010924-2 LCS | 12/18/24 19:28 | Nathan Downs | 25 | 0.25 | 12/18/24 19:28 | 5 | 94.5 | 12/18/24 21:28 | 25 | |
| WG2010924-3 MS | 12/18/24 19:28 | Nathan Downs | 25 | 1.25 | 12/18/24 19:28 | 5 | 94.5 | 12/18/24 21:28 | 25 | |
| WG2010924-4 DUP | 12/18/24 19:28 | Nathan Downs | 25 | | 12/18/24 19:28 | 5 | 94.5 | 12/18/24 21:28 | 25 | |
| WG2010924-5 MS | 12/18/24 19:28 | Nathan Downs | 25 | 1.25 | 12/18/24 19:28 | 5 | 94.5 | 12/18/24 21:28 | 25 | |
| WG2010924-6 DUP | 12/18/24 19:28 | Nathan Downs | 25 | | 12/18/24 19:28 | 5 | 94.5 | 12/18/24 21:28 | 25 | |



Reported: 23-DEC-24 01:01 PM

# METALS ELN REPORT

**Workgroup: WG2010924**

| Reagent | Actual Volume | Units |
|---|---|---|
| Sulfuric Acid (H2SO4) | 1.25 | ml |
| Nitric Acid (HNO3) | .625 | ml |
| Potassium Permanganat | 3.75 | ml |
| Potassium Persulfate (K: | 2 | ml |
| NaCl-Hydroxylamine Hy | 1.5 | ml |



Reported: 23-DEC-24 01:01 PM

# METALS ELN REPORT

**Workgroup: WG2012441**

## 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 | 24015917 | H2SO4 | 24016430 | METALS | METSPIKE | HG24511620 05CLHV1 | METSPIKE | HG24511620 05CLHV1 | 320, 344 |

| | | |
|---|---|---|
| **Additional Reagent/Std** | K2O8S2 | PS2451161254ADG |
| | KMnO4 | PP2451181608SAM |
| | NaCl-NH2OH.HCl | HH24501315MJR |
| | | ICV2451161400MGM |

| Sample/ Type | Digestion Date | Analyst | Lab Filtration Date | Sample Vol | Spike Amt ml | Start Date/Time | Hot Block Unit | Temperature (C) | Stop Date/Time | Final Vol | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| L2473927-01 SAMP | 12/22/24 19:46 | Maisie Mcqueen | 12-18-24 10:57 | 25 | | 12/22/24 19:46 | 5 | 94.6 | 12/22/24 21:46 | 25 | |
| L2473927-02 SAMP | 12/22/24 19:46 | Maisie Mcqueen | 12-18-24 10:57 | 25 | | 12/22/24 19:46 | 5 | 94.6 | 12/22/24 21:46 | 25 | |
| L2474329-01 SAMP | 12/22/24 19:46 | Maisie Mcqueen | NA | 25 | | 12/22/24 19:46 | 5 | 94.6 | 12/22/24 21:46 | 25 | |
| L2474329-02 SAMP | 12/22/24 19:46 | Maisie Mcqueen | NA | 25 | | 12/22/24 19:46 | 5 | 94.6 | 12/22/24 21:46 | 25 | |
| L2474329-03 SAMP | 12/22/24 19:46 | Maisie Mcqueen | NA | 25 | | 12/22/24 19:46 | 5 | 94.6 | 12/22/24 21:46 | 25 | |
| L2474329-04 SAMP | 12/22/24 19:46 | Maisie Mcqueen | NA | 25 | | 12/22/24 19:46 | 5 | 94.6 | 12/22/24 21:46 | 25 | |
| L2474329-05 SAMP | 12/22/24 19:46 | Maisie Mcqueen | NA | 25 | | 12/22/24 19:46 | 5 | 94.6 | 12/22/24 21:46 | 25 | |
| WG2012441-1 BLANK | 12/22/24 19:46 | Maisie Mcqueen | 12/18/24 10:57 | 25 | | 12/22/24 19:46 | 5 | 94.6 | 12/22/24 21:46 | 25 | ELN:ajt |



Reported: 23-DEC-24 01:01 PM

# METALS ELN REPORT

**Workgroup: WG2012441**

| **Sample/ Type** | Digestion Date | Analyst | Lab Filtration Date | Sample Vol | Spike Amt **ml** | Start Date/Time | Hot Block Unit | Temperature (C) | Stop Date/Time | Final Vol | **Comments** |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WG2012441 -2 LCS | 12/22/24 19:46 | Maisie Mcqueen | NA | 25 | 0.25 | 12/22/24 19:46 | 5 | 94.6 | 12/22/24 21:46 | 25 | |
| WG2012441 -3 MS | 12/22/24 19:46 | Maisie Mcqueen | NA | 25 | 1.25 | 12/22/24 19:46 | 5 | 94.6 | 12/22/24 21:46 | 25 | |
| WG2012441 -4 DUP | 12/22/24 19:46 | Maisie Mcqueen | NA | 25 | | 12/22/24 19:46 | 5 | 94.6 | 12/22/24 21:46 | 25 | |

| **Reagent** | **Actual Volume** | **Units** |
|---|---|---|
| Sulfuric Acid (H2SO4) | 1.25 | ml |
| Nitric Acid (HNO3) | .625 | ml |
| Potassium Permanganat | 3.75 | ml |
| Potassium Persulfate (K: | 2 | ml |
| NaCl-Hydroxylamine Hy | 1.5 | ml |



Reported: 23-DEC-24 01:01 PM

# Wet Chemistry

# Total Nitrogen Analysis

# Results

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-01 | Date Collected | : 12/16/24 11:00 |
| Client ID | : MW-4S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/26/24 16:50 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 107,- | Analyst | : JRO |
| Lab File ID | : WG2013810.csv | Instrument ID | : |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Total Nitrogen | 3.5 | 0.30 | 0.30 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-02 | Date Collected | : 12/16/24 11:50 |
| Client ID | : MW-4D2 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/26/24 16:50 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 107,- | Analyst | : JRO |
| Lab File ID | : WG2013810.csv | Instrument ID | : |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Total Nitrogen | 2.2 | 0.30 | 0.30 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Lab ID** | : L2474329-03 | **Date Collected** | : 12/16/24 08:45 |
| **Client ID** | : MW-12S | **Date Received** | : 12/17/24 |
| **Sample Location** | : 416 MILLER PLACE-YAPHANK ROAD | **Date Analyzed** | : 12/26/24 16:50 |
| **Sample Matrix** | : WATER | **Dilution Factor** | : 1 |
| **Analytical Method** | : 107,- | **Analyst** | : JRO |
| **Lab File ID** | : WG2013810.csv | **Instrument ID** | : |
| **Sample Amount** | : | **%Solids** | : N/A |
| **Digestion Method** | : | **Date Digested** | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| NONE | Total Nitrogen | 2.4 | 0.30 | 0.30 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-04 | Date Collected | : 12/16/24 09:33 |
| Client ID | : MW-12D | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/26/24 16:50 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 107,- | Analyst | : JRO |
| Lab File ID | : WG2013810.csv | Instrument ID | : |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Total Nitrogen | 4.4 | 0.30 | 0.30 | |



Pace

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-05 | Date Collected | : 12/16/24 12:00 |
| Client ID | : EB-12162024 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/26/24 16:50 |
| Sample Matrix | : Equipment Blank | Dilution Factor | : 1 |
| Analytical Method | : 107,- | Analyst | : JRO |
| Lab File ID | : WG2013810.csv | Instrument ID | : |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| CAS NO. | Parameter | mg/l Results | RL | MDL | Qualifier |
|---|---|---|---|---|---|
| NONE | Total Nitrogen | ND | 0.30 | 0.30 | U |

# Sample Raw Data

**PACE ANALYTICAL LABS**

# WET CHEMISTRY DEPARTMENT

**TOTAL NITROGEN**

Last Change 3/5/13 GFF

File tnitrogen.xlt

**Sample #:** ________________

**Client:** ________________

**Analysis:** **Total Nitrogen**

**Method:** ***Calculation from TKN & NO3/NO2***

**Product:** **TNITROGEN**
**Analyte:** **Total Nitrogen,**
**Analysis Date:** #############
**Technician:** JRO
**Work group:** WG2013810
**RL:** **0.3 mg/L**

| | Sample Number | TKN (mg/L) | NO3/NO2 (mg/L) | RL Multiplier | Result (mg/L) |
|---|---|---|---|---|---|
| SAMP | L2474329-01 | 0 | 3.5 | 1.0 | 3.5 |
| SAMP | L2474329-02 | 0 | 2.2 | 1.0 | 2.2 |
| SAMP | L2474329-03 | 0.138 | 2.4 | 1.0 | 2.4 |
| SAMP | L2474329-04 | 0 | 4.4 | 1.0 | 4.4 |
| SAMP | L2474329-05 | 0 | 0 | 1.0 | 0 |
| | | | | | |
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# Calculations of Total Nitrogen

Calculate the concentration value based on results for TKN-N and N03/NO2-N.

Aqueous samples:

mgTN-N/L = TKN-N(mg/l) + NO3/NO2-N (mg/l)

Soil samples:

mgTN-N/Kg = TKN-N(mg/Kg) + NO3/NO2-N(mg/Kg)

# Total Kjeldahl Nitrogen Analysis

# Results

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-01** | **Date Collected** | **: 12/16/24 11:00** |
| **Client ID** | **: MW-4S** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/26/24 16:08** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 4,351.1** | **Analyst** | **: AT** |
| **Lab File ID** | **: NH320241226-B** | **Instrument ID** | **: LACHAT** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **: 12/24/24** |

| CAS NO. | Parameter | Results (mg/l) | RL (mg/l) | MDL (mg/l) | Qualifier |
|---|---|---|---|---|---|
| NONE | Nitrogen, Total Kjeldahl | ND | 0.300 | 0.066 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-02** | **Date Collected** | **: 12/16/24 11:50** |
| **Client ID** | **: MW-4D2** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/26/24 16:09** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 4,351.1** | **Analyst** | **: AT** |
| **Lab File ID** | **: NH320241226-B** | **Instrument ID** | **: LACHAT** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **: 12/24/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Nitrogen, Total Kjeldahl | ND | 0.300 | 0.066 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-03 | Date Collected | : 12/16/24 08:45 |
| Client ID | : MW-12S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/26/24 16:10 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 4,351.1 | Analyst | : AT |
| Lab File ID | : NH320241226-B | Instrument ID | : LACHAT |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : 12/24/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Nitrogen, Total Kjeldahl | 0.138 | 0.300 | 0.066 | J |

# Form 1
# WETCHEM

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : | **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : | **L2474329** |
| **Project Name** | : | **CORAM MATERIALS** | **Project Number** | : | **2232.0006Y005** |
| **Lab ID** | : | **L2474329-04** | **Date Collected** | : | **12/16/24 09:33** |
| **Client ID** | : | **MW-12D** | **Date Received** | : | **12/17/24** |
| **Sample Location** | : | **416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | : | **12/26/24 16:11** |
| **Sample Matrix** | : | **WATER** | **Dilution Factor** | : | **1** |
| **Analytical Method** | : | **4,351.1** | **Analyst** | : | **AT** |
| **Lab File ID** | : | **NH320241226-B** | **Instrument ID** | : | **LACHAT** |
| **Sample Amount** | : | | **%Solids** | : | **N/A** |
| **Digestion Method** | : | | **Date Digested** | : | **12/24/24** |

| CAS NO. | Parameter | mg/l Results | RL | MDL | Qualifier |
|---|---|---|---|---|---|
| NONE | Nitrogen, Total Kjeldahl | ND | 0.300 | 0.066 | U |

# Form 1
# WETCHEM

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : | **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : | **L2474329** |
| **Project Name** | : | **CORAM MATERIALS** | **Project Number** | : | **2232.0006Y005** |
| **Lab ID** | : | **L2474329-05** | **Date Collected** | : | **12/16/24 12:00** |
| **Client ID** | : | **EB-12162024** | **Date Received** | : | **12/17/24** |
| **Sample Location** | : | **416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | : | **12/26/24 16:12** |
| **Sample Matrix** | : | **Equipment Blank** | **Dilution Factor** | : | **1** |
| **Analytical Method** | : | **4,351.1** | **Analyst** | : | **AT** |
| **Lab File ID** | : | **NH320241226-B** | **Instrument ID** | : | **LACHAT** |
| **Sample Amount** | : | | **%Solids** | : | **N/A** |
| **Digestion Method** | : | | **Date Digested** | : | **12/24/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| NONE | Nitrogen, Total Kjeldahl | ND | 0.300 | 0.066 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2013217-1 | Date Collected | : NA |
| Client ID | : WG2013217-1BLANK | Date Received | : NA |
| Sample Location | : | Date Analyzed | : 12/26/24 15:53 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 4,351.1 | Analyst | : AT |
| Lab File ID | : NH320241226-B | Instrument ID | : LACHAT |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : 12/24/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Nitrogen, Total Kjeldahl | 0.202 | 0.300 | 0.022 | J |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2013217-3 | Date Collected | : 12/17/24 11:30 |
| Client ID | : WG2013217-3 DUP | Date Received | : 12/17/24 |
| Sample Location | : | Date Analyzed | : 12/26/24 15:59 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 4,351.1 | Analyst | : AT |
| Lab File ID | : NH320241226-B | Instrument ID | : LACHAT |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : 12/24/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Nitrogen, Total Kjeldahl | 0.783 | 0.300 | 0.066 | |

# Sample Raw Data

Author: A1WETCHEMINSTRUMENT

Date : 12/26/2024

Original Run Filename: OM_12-26-2024_12-38-12PM.OMN Created: 12/26/2024 12:38:12 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-26-2024_12-38-12PM.OMN Last Modified: 12/26/2024 1:08:45 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

| | Sample | Rep. | Cup No. | Channel 2 Ammonia (mg N/L) | ADF | MDF | Weight | |
|---|---|---|---|---|---|---|---|---|
| | 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 | 0.39284 | | | | 98% |
| | | Known Conc: | | 100.00000 | | | | |
| | | Calibration: | | Table/Fig. : 1 | | | | |
| | CCV 4.0000 | 1 | S3 | 4.03405 | | | | 101% |
| | | Known Conc: | | 100.00000 | | | | |
| | CCB | 1 | S10 | 0.01719 | | | | |
| | | Known Conc: | | 100.00000 | | | | |
| | HI ICV 8.0 | 1 | 1 | 7.95609 | | | | 99% |
| | LO ICV 1.0 | 1 | 2 | 0.99671 | | | | |
| | ICB | 1 | 3 | 0.01453 | | | | |
| | WG2013210-1 T | 1 | 4 | 0.02806 | | | | |
| | WG2013210-2 T | 1 | 5 | 39.93174 | | 15.00 | | 100% |
| | LCS LOW T | 1 | 6 | 4.08809 | | 3.00 | | |
| x | L2473108-02 T | 1 | 7 | 76.49407 | | 3.00 | | |
| | L2474014-01 T | 1 | 8 | 26.21639 | | 6.00 | | |
| x | L2474015-01 T | 1 | 9 | 66.05199 | | 3.00 | | |
| x | L2474016-01 T | 1 | 10 | 56.13696 | | 3.00 | | |
| x | CCV 0.4000 | 1 | S6 | 0.73632 | | | | 184% Rerun |
| | | Known Conc: | | 100.00000 | | | | |

Author: A1WETCHEMINSTRUMENT

Date : 12/26/2024

Channel 2 (Ammonia High) - Current View

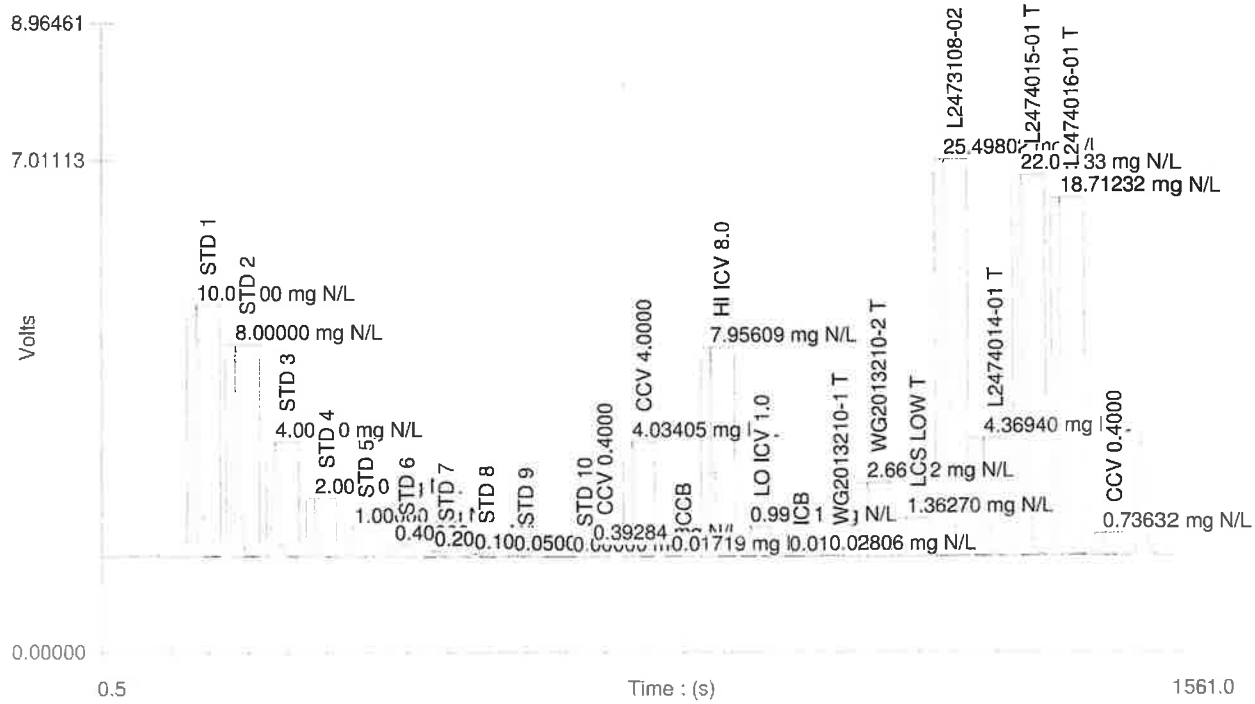
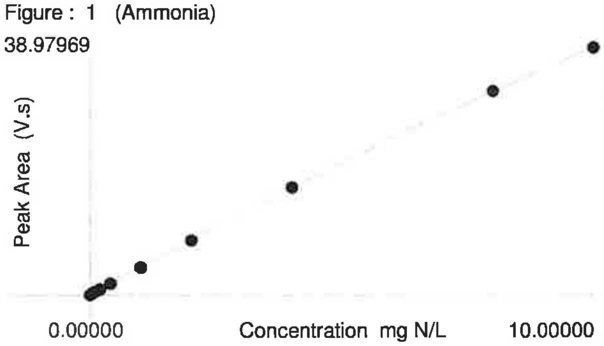



Table : 1 (Ammonia)

| | 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 | 38.97969 | 3.58279 | 0.0 | 0.1 | 9.96636 | 12/26/2024 | 12:44:20 PM |
| 2 | 8.00000 | 1 | 32.15162 | 3.02268 | 0.0 | -0.2 | 8.03411 | 12/26/2024 | 12:45:17 PM |
| 3 | 4.00000 | 1 | 16.96826 | 1.64422 | 0.0 | -0.3 | 4.02155 | 12/26/2024 | 12:46:14 PM |
| 4 | 2.00000 | 1 | 8.63260 | 0.83987 | 0.0 | 0.5 | 1.98533 | 12/26/2024 | 12:47:11 PM |
| 5 | 1.00000 | 1 | 4.35284 | 0.42227 | 0.0 | 0.9 | 0.98579 | 12/26/2024 | 12:48:08 PM |
| 6 | 0.40000 | 1 | 1.75180 | 0.16899 | 0.0 | 1.0 | 0.39352 | 12/26/2024 | 12:49:07 PM |
| 7 | 0.20000 | 1 | 0.88882 | 0.08466 | 0.0 | -0.3 | 0.19957 | 12/26/2024 | 12:50:05 PM |
| 8 | 0.10000 | 1 | 0.47283 | 0.04430 | 0.0 | -6.9 | 0.10652 | 12/26/2024 | 12:51:03 PM |
| 9 | 0.05000 | 1 | 0.24091 | 0.02189 | 0.0 | -9.3 | 0.05477 | 12/26/2024 | 12:52:01 PM |
| 10 | 0.00000 | 1 | -0.03359 | -0.00185 | | | -0.00635 | 12/26/2024 | 12:52:57 PM |

Figure : 1 (Ammonia)




Area = - 0.05473 * Conc^2 + 4.45024 * Conc - 0.00196
Conc = 0.00085 * Area^2 + 0.22251 * Area + 0.00112
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 12/26/2024

Original Run Filename: OM_12-26-2024_01-26-07PM.OMN Created: 12/26/2024 1:26:07 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-26-2024_01-26-07PM.OMN Last Modified: 12/26/2024 1:42:40 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

| | Sample | Rep. | Cup No. | Channel 2 Ammonia (mg N/L) | ADF | MDF | Weight | |
|---|---|---|---|---|---|---|---|---|
| | CCV 0.4000 | 1 | S6 | 0.42273 | | | | 106% |
| | | Known Conc: | | 100.00000 | | | | |
| | CCV 4.0000 | 1 | S3 | 4.16942 | | | | 104$ |
| | | Known Conc: | | 100.00000 | | | | |
| | | Calibration: | | Table/Fig. : 1 | | | | |
| | CCB | 1 | S10 | 0.02929 | | | | |
| | | Known Conc: | | 100.00000 | | | | |
| | L2474016-02 T | 1 | 11 | 9.15936 | | 3.00 | | |
| | L2474051-01 T | 1 | 12 | 2.20582 | | 3.00 | | |
| | L2474302-01 T | 1 | 13 | 1.83206 | | 3.00 | | |
| | L2474302-02 T | 1 | 14 | 0.73121 | | 3.00 | | |
| | L2474716-01 T | 1 | 15 | 8.18759 | | 3.00 | | |
| | L2474716-02 T | 1 | 16 | 4.84075 | | 3.00 | | |
| | L2474717-01 T | 1 | 17 | 6.23517 | | 3.00 | | |
| | L2474717-02 T | 1 | 18 | 28.07065 | | 3.00 | | |
| x | L2474722-02 T | 1 | 19 | 0.66019 | | 3.00 | | |
| | WG2013210-4 T | 1 | 20 | 8.48411 | | 3.00 | | 98% |
| x | CCV 0.4000 | 1 | S6 | 0.50845 | | | | 127% Rerun |
| | | Known Conc: | | 100.00000 | | | | |

Channel 2 (Ammonia High) - Current View

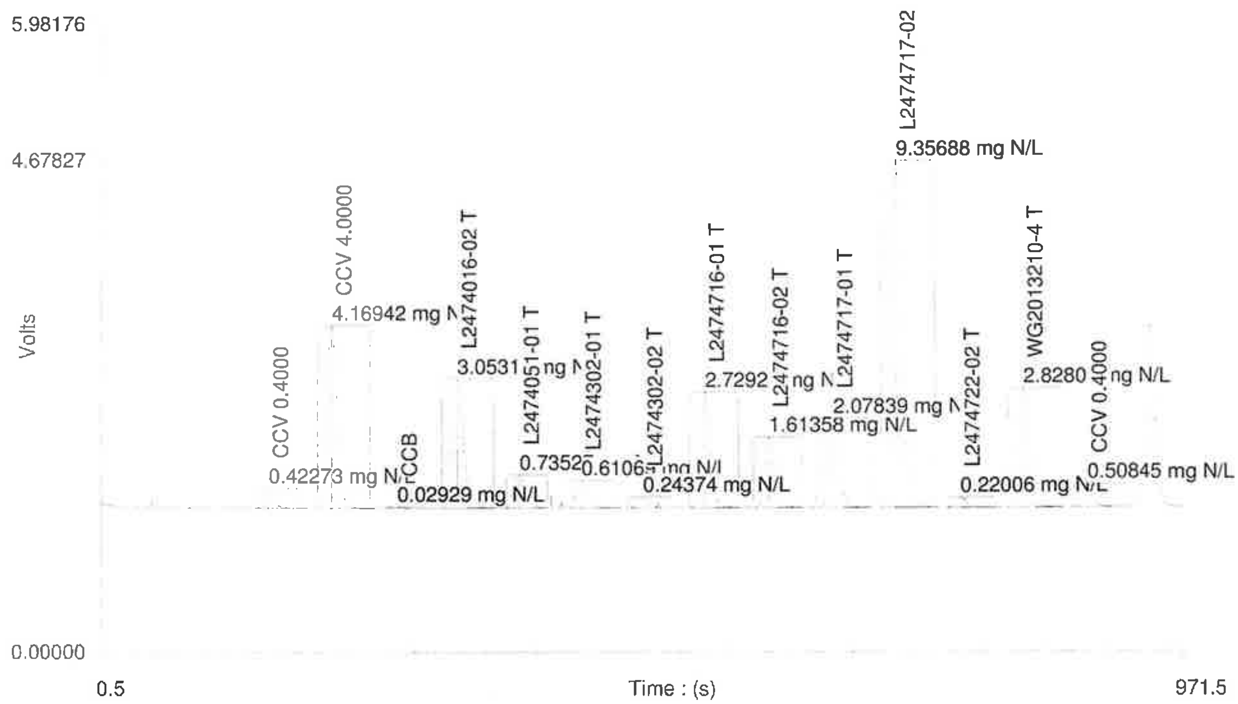
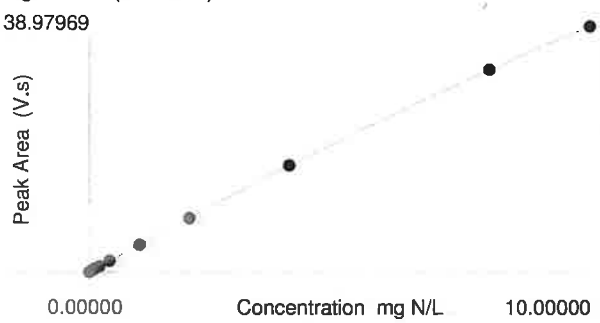


Table : 1 (Ammonia)

| | 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 | 38.97969 | 3.58279 | 0.0 | 0.1 | 9.96636 | 12/26/2024 | 12:44:20 PM |
| 2 | 8.00000 | 1 | 32.15162 | 3.02268 | 0.0 | -0.2 | 8.03411 | 12/26/2024 | 12:45:17 PM |
| 3 | 4.00000 | 1 | 16.96826 | 1.64422 | 0.0 | -0.3 | 4.02155 | 12/26/2024 | 12:46:14 PM |
| 4 | 2.00000 | 1 | 8.63260 | 0.83987 | 0.0 | 0.5 | 1.98533 | 12/26/2024 | 12:47:11 PM |
| 5 | 1.00000 | 1 | 4.35284 | 0.42227 | 0.0 | 0.9 | 0.98579 | 12/26/2024 | 12:48:08 PM |
| 6 | 0.40000 | 1 | 1.75180 | 0.16899 | 0.0 | 1.0 | 0.39352 | 12/26/2024 | 12:49:07 PM |
| 7 | 0.20000 | 1 | 0.88882 | 0.08466 | 0.0 | -0.3 | 0.19957 | 12/26/2024 | 12:50:05 PM |
| 8 | 0.10000 | 1 | 0.47283 | 0.04430 | 0.0 | -6.9 | 0.10652 | 12/26/2024 | 12:51:03 PM |
| 9 | 0.05000 | 1 | 0.24091 | 0.02189 | 0.0 | -9.3 | 0.05477 | 12/26/2024 | 12:52:01 PM |
| 10 | 0.00000 | 1 | -0.03359 | -0.00185 | | | -0.00635 | 12/26/2024 | 12:52:57 PM |

Figure : 1 (Ammonia)




Area = - 0.05473 * Conc^2 + 4.45024 * Conc - 0.00196
Conc = 0.00085 * Area^2 + 0.22251 * Area + 0.00112
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

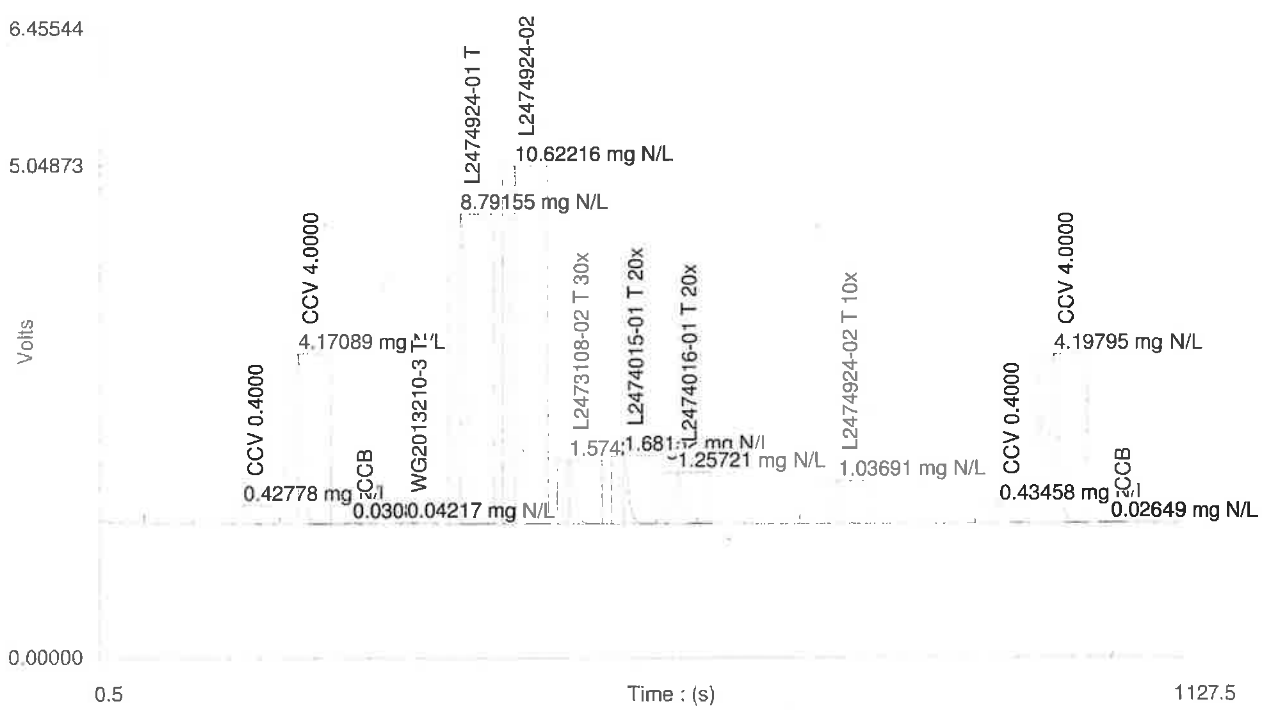
Author: A1WETCHEMINSTRUMENT

Date : 12/26/2024

Original Run Filename: OM_12-26-2024_01-46-08PM.OMN Created: 12/26/2024 1:46:08 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-26-2024_01-46-08PM.OMN Last Modified: 12/26/2024 2:05:08 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

| Sample | Rep. | Cup No. | Channel 2 Ammonia (mg N/L) | ADF | MDF | Weight | Tray A2 |
|---|---|---|---|---|---|---|---|
| CCV 0.4000 | 1 | S6 | 0.42778 | | | | 107% |
| | Known Conc: | | 100.00000 | | | | |
| CCV 4.0000 | 1 | S3 | 4.17089 | | | | 104% |
| | Known Conc: | | 100.00000 | | | | |
| | Calibration: | | Table/Fig. : 1 | | | | |
| CCB | 1 | S10 | 0.03089 | | | | |
| | Known Conc: | | 100.00000 | | | | |
| x WG2013210-3 T | 1 | 21 | 0.12651 | | 3.00 | | |
| L2474924-01 T | 1 | 22 | 26.37466 | | 3.00 | | |
| L2474924-02 T | 1 | 23 | 31.86647 | | 3.00 | | |
| L2473108-02 T 30x | 1 | 7 | 141.68355 | | 90.00 | | |
| L2474015-01 T 20x | 1 | 9 | 100.89126 | | 60.00 | | |
| L2474016-01 T 20x | 1 | 10 | 75.43277 | | 60.00 | | |
| L2474924-02 T 10x | 1 | 23 | 31.10724 | | 30.00 | | |
| CCV 0.4000 | 1 | S6 | 0.43458 | | | | 109% |
| | Known Conc: | | 100.00000 | | | | |
| CCV 4.0000 | 1 | S3 | 4.19795 | | | | 105% |
| | Known Conc: | | 100.00000 | | | | |
| CCB | 1 | S10 | 0.02649 | | | | |
| | Known Conc: | | 100.00000 | | | | |

Channel 2 (Ammonia High) - Current View




- 1 -

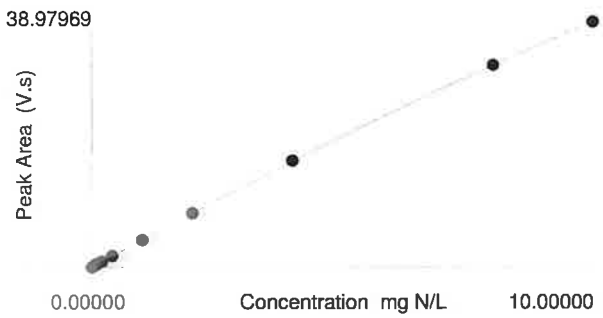
Author: A1WETCHEMINSTRUMENT

Date : 12/26/2024

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 | 38.97969 | 3.58279 | 0.0 | 0.1 | 9.96636 | 12/26/2024 | 12:44:20 PM |
| 2 | 8.00000 | 1 | 32.15162 | 3.02268 | 0.0 | -0.2 | 8.03411 | 12/26/2024 | 12:45:17 PM |
| 3 | 4.00000 | 1 | 16.96826 | 1.64422 | 0.0 | -0.3 | 4.02155 | 12/26/2024 | 12:46:14 PM |
| 4 | 2.00000 | 1 | 8.63260 | 0.83987 | 0.0 | 0.5 | 1.98533 | 12/26/2024 | 12:47:11 PM |
| 5 | 1.00000 | 1 | 4.35284 | 0.42227 | 0.0 | 0.9 | 0.98579 | 12/26/2024 | 12:48:08 PM |
| 6 | 0.40000 | 1 | 1.75180 | 0.16899 | 0.0 | 1.0 | 0.39352 | 12/26/2024 | 12:49:07 PM |
| 7 | 0.20000 | 1 | 0.88882 | 0.08466 | 0.0 | -0.3 | 0.19957 | 12/26/2024 | 12:50:05 PM |
| 8 | 0.10000 | 1 | 0.47283 | 0.04430 | 0.0 | -6.9 | 0.10652 | 12/26/2024 | 12:51:03 PM |
| 9 | 0.05000 | 1 | 0.24091 | 0.02189 | 0.0 | -9.3 | 0.05477 | 12/26/2024 | 12:52:01 PM |
| 10 | 0.00000 | 1 | -0.03359 | -0.00185 | | | -0.00635 | 12/26/2024 | 12:52:57 PM |

Figure : 1 (Ammonia)




Area = - 0.05473 * Conc^2 + 4.45024 * Conc - 0.00196
Conc = 0.00085 * Area^2 + 0.22251 * Area + 0.00112
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 12/26/2024

Original Run Filename: OM_12-26-2024_03-49-26PM.OMN Created: 12/26/2024 3:49:26 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-26-2024_03-49-26PM.OMN Last Modified: 12/26/2024 4:20:46 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

3

| Sample | Rep. | Cup No. | Channel 2 Ammonia (mg N/L) | ADF | MDF | Weight |
|---|---|---|---|---|---|---|
| CCV 0.4000 | 1 | S6 | 0.39700 | 99% | | |
| | Known Conc: | | 100.00000 | | | |
| | Calibration: | | Table/Fig. : 1 | | | |
| CCV 4.0000 | 1 | S3 | 4.24595 | 106% | | |
| | Known Conc: | | 100.00000 | | | |
| CCB | 1 | S10 | 0.03507 | ✓ | | |
| | Known Conc: | | 100.00000 | | | |
| WG2013217-1 T | 1 | 1 | 0.06717 | | | |
| WG2013217-2 T | 1 | 2 | 41.84101 | | 15.00 | 105% |
| LCS LOW | 1 | 3 | 4.27407 | | 3.00 | |
| L2474303-01 T | 1 | 4 | 0.33235 | ✓ | 3.00 | 107% |
| L2474303-02 T | 1 | 5 | 0.63343 | | 3.00 | |
| WG2013217-4 T | 1 | 6 | 9.23952 | | 3.00 | 108% |
| WG2013217-3 T | 1 | 7 | 0.78274 | ✓ | 3.00 | |
| L2474303-03 T | 1 | 8 | 0.35990 | | 3.00 | 21% (<RL) |
| L2474303-04 T | 1 | 9 | 0.16092 | | 3.00 | |
| L2474303-05 T | 1 | 10 | 0.17706 | | 3.00 | |
| CCV 0.4000 | 1 | S6 | 0.39916 | 100% | | |
| | Known Conc: | | 100.00000 | | | |
| CCV 4.0000 | 1 | S3 | 4.26772 | 107% | | |
| | Known Conc: | | 100.00000 | | | |
| CCB | 1 | S10 | 0.02995 | ✓ | | |
| | Known Conc: | | 100.00000 | | | |
| L2474303-06 T | 1 | 11 | 0.15542 | | 3.00 | |
| L2474303-07 T | 1 | 12 | 0.33160 | | 3.00 | |
| L2474303-08 T | 1 | 13 | 0.10916 | | 3.00 | |
| L2474329-01 T | 1 | 14 | 0.06405 | | 3.00 | |
| L2474329-02 T | 1 | 15 | 0.04789 | | 3.00 | |
| L2474329-03 T | 1 | 16 | 0.13762 | | 3.00 | |
| L2474329-04 T | 1 | 17 | 0.03031 | | 3.00 | |
| L2474329-05 T | 1 | 18 | 0.01239 | | 3.00 | |
| L2474663-01 T | 1 | 19 | 0.06822 | | 3.00 | |
| L2474663-02 T | 1 | 20 | 0.15861 | | 3.00 | |
| CCV 0.4000 | 1 | S6 | 0.39505 | 99% | | |
| | Known Conc: | | 100.00000 | | | |
| CCV 4.0000 | 1 | S3 | 4.29009 | 107% | | |
| | Known Conc: | | 100.00000 | | | |
| CCB | 1 | S10 | 0.03129 | ✓ | | |
| | Known Conc: | | 100.00000 | | | |

Author: A1WETCHEMINSTRUMENT

Date : 12/26/2024

Channel 2 (Ammonia High) - Current View

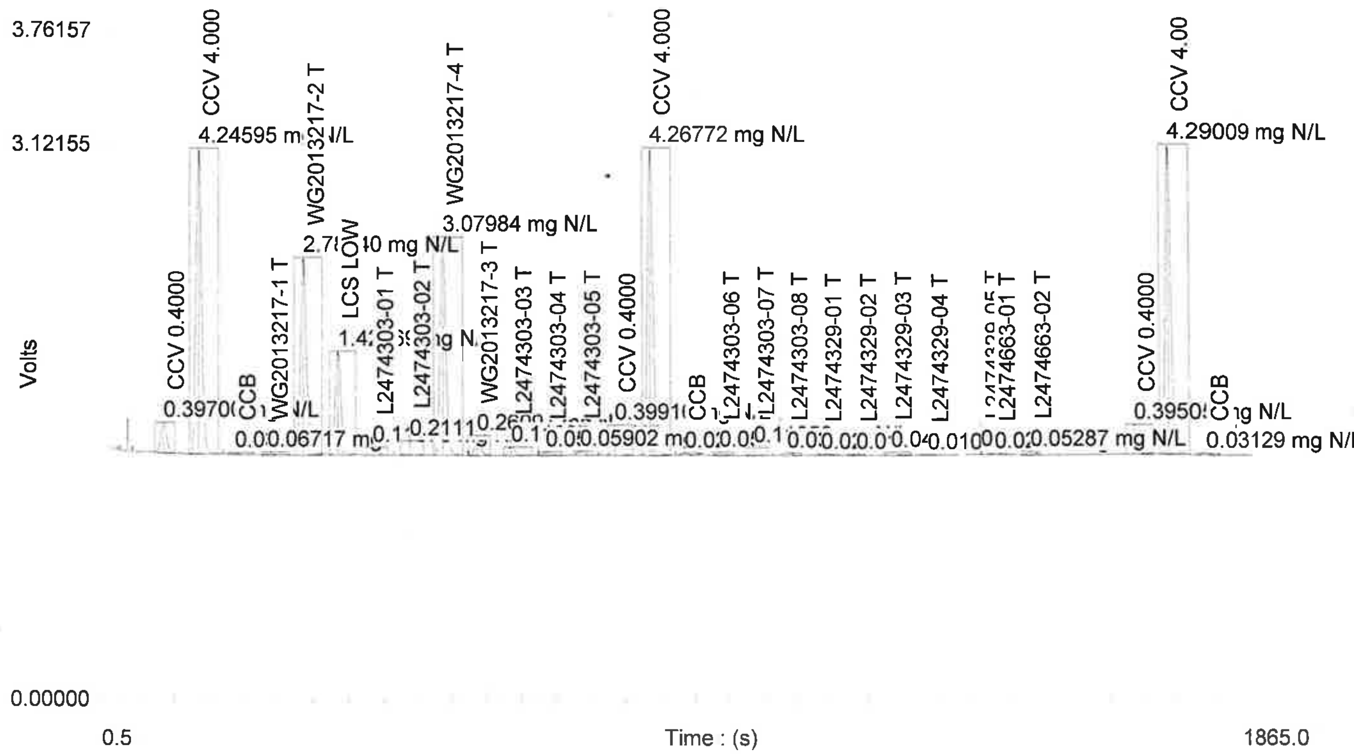
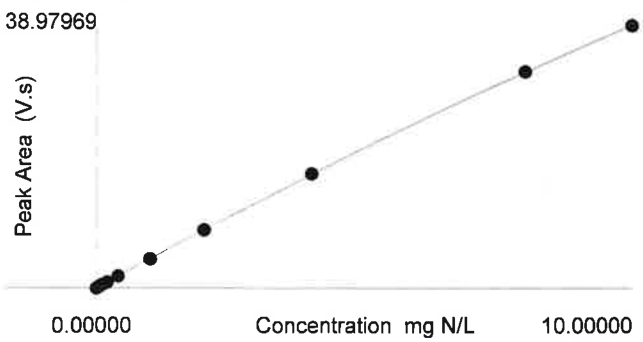



Table : 1 (Ammonia)

| | 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 | 38.97969 | 3.58279 | 0.0 | 0.1 | 9.96636 | 12/26/2024 | 12:44:20 PM |
| 2 | 8.00000 | 1 | 32.15162 | 3.02268 | 0.0 | -0.2 | 8.03411 | 12/26/2024 | 12:45:17 PM |
| 3 | 4.00000 | 1 | 16.96826 | 1.64422 | 0.0 | -0.3 | 4.02155 | 12/26/2024 | 12:46:14 PM |
| 4 | 2.00000 | 1 | 8.63260 | 0.83987 | 0.0 | 0.5 | 1.98533 | 12/26/2024 | 12:47:11 PM |
| 5 | 1.00000 | 1 | 4.35284 | 0.42227 | 0.0 | 0.9 | 0.98579 | 12/26/2024 | 12:48:08 PM |
| 6 | 0.40000 | 1 | 1.75180 | 0.16899 | 0.0 | 1.0 | 0.39352 | 12/26/2024 | 12:49:07 PM |
| 7 | 0.20000 | 1 | 0.88882 | 0.08466 | 0.0 | -0.3 | 0.19957 | 12/26/2024 | 12:50:05 PM |
| 8 | 0.10000 | 1 | 0.47283 | 0.04430 | 0.0 | -6.9 | 0.10652 | 12/26/2024 | 12:51:03 PM |
| 9 | 0.05000 | 1 | 0.24091 | 0.02189 | 0.0 | -9.3 | 0.05477 | 12/26/2024 | 12:52:01 PM |
| 10 | 0.00000 | 1 | -0.03359 | -0.00185 | | | -0.00635 | 12/26/2024 | 12:52:57 PM |

Figure : 1 (Ammonia)




Area = - 0.05473 * Conc^2 + 4.45024 * Conc - 0.00196
Conc = 0.00085 * Area^2 + 0.22251 * Area + 0.00112
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 12/26/2024

Original Run Filename: OM_12-26-2024_04-34-57PM.OMN Created: 12/26/2024 4:34:57 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-26-2024_04-34-57PM.OMN Last Modified: 12/26/2024 4:59:42 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

C

| Sample | Rep. | Cup No. | Channel 2 Ammonia (mg N/L) | ADF | MDF | Weight |
|---|---|---|---|---|---|---|
| CCV 0.4000 | 1 | S6 | 0.38759 | 97% | | |
| | Known Conc: | | 100.00000 | | | |
| CCV 4.0000 | 1 | S3 | 4.21201 | 105% | | |
| | Known Conc: | | 100.00000 | | | |
| | Calibration: | | Table/Fig. : 1 | | | |
| CCB | 1 | S10 | 0.01957 | | | |
| | Known Conc: | | 100.00000 | | | |
| WG2013221-1; BLK 12/24 | 1 | 1 | 0.01912 | | 1.50 | |
| WG2013221-2; HI LCS; 5X | 1 | 2 | 21.33953 | | 7.50 | 107% |
| LO LCS | 1 | 3 | 1.90569 | | 1.50 | 96% |
| L2474226-02 | 1 | 4 | 0.95188 | | 1.50 | |
| L2474226-03 | 1 | ~~5~~ | ~~110.97130~~ | | ~~7.50~~ | w/ dilution. |
| L2474228-01 | 1 | ~~6~~ | ~~10.97946~~ | | ~~3.00~~ | |
| L2474229-01 | 1 | 7 | 11.30023 | | 1.50 | |
| L2474722-02 | 1 | 8 | 0.28301 | | 1.50 | 104% |
| WG2013221-4; 74722.2 MS | 1 | 9 | 4.46223 | | 1.50 | 62% (<5+KL) |
| WG2013221-3; 74722.2 DUP | 1 | 10 | 0.14906 | | 1.50 | |
| CCV 0.4000 | 1 | S6 | 0.40042 | 100% | | |
| | Known Conc: | | 100.00000 | | | |
| CCV 4.0000 | 1 | S3 | 4.21818 | 106% | | |
| | Known Conc: | | 100.00000 | | | |
| CCB | 1 | S10 | 0.02473 | | | |
| | Known Conc: | | 100.00000 | | | |
| L2474228-01 | 1 | 11 | 10.22497 | | 3.00 | |
| L2474226-03; 10X | 1 | 12 | 125.21851 | | 75.00 | |
| CCV 0.4000 | 1 | S6 | 0.39676 | 99% | | |
| | Known Conc: | | 100.00000 | | | |
| CCV 4.0000 | 1 | S3 | 4.19215 | 105% | | |
| | Known Conc: | | 100.00000 | | | |
| CCB | 1 | S10 | 0.02336 | | | |
| | Known Conc: | | 100.00000 | | | |

Author: A1WETCHEMINSTRUMENT

Date : 12/26/2024

Channel 2 (Ammonia High) - Current View

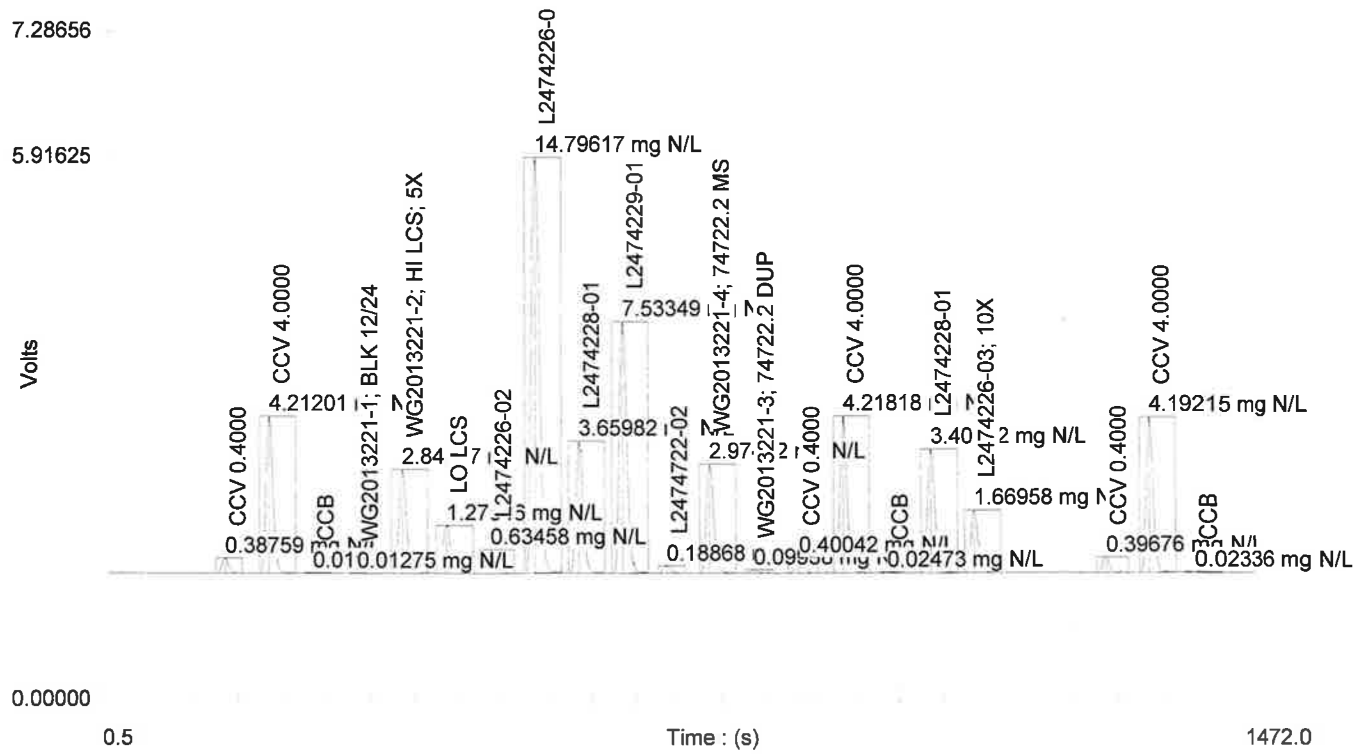
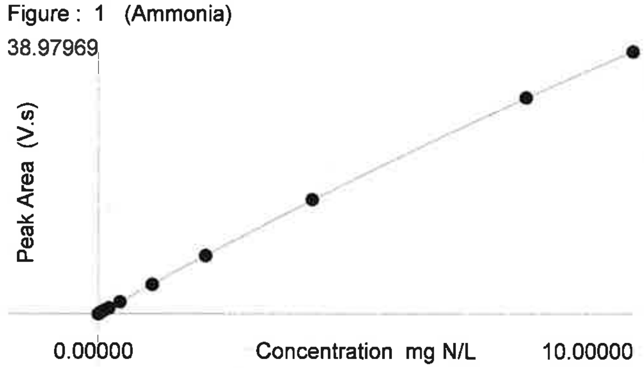



Table : 1 (Ammonia)

| | 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 | 38.97969 | 3.58279 | 0.0 | 0.1 | 9.96636 | 12/26/2024 | 12:44:20 PM |
| 2 | 8.00000 | 1 | 32.15162 | 3.02268 | 0.0 | -0.2 | 8.03411 | 12/26/2024 | 12:45:17 PM |
| 3 | 4.00000 | 1 | 16.96826 | 1.64422 | 0.0 | -0.3 | 4.02155 | 12/26/2024 | 12:46:14 PM |
| 4 | 2.00000 | 1 | 8.63260 | 0.83987 | 0.0 | 0.5 | 1.98533 | 12/26/2024 | 12:47:11 PM |
| 5 | 1.00000 | 1 | 4.35284 | 0.42227 | 0.0 | 0.9 | 0.98579 | 12/26/2024 | 12:48:08 PM |
| 6 | 0.40000 | 1 | 1.75180 | 0.16899 | 0.0 | 1.0 | 0.39352 | 12/26/2024 | 12:49:07 PM |
| 7 | 0.20000 | 1 | 0.88882 | 0.08466 | 0.0 | -0.3 | 0.19957 | 12/26/2024 | 12:50:05 PM |
| 8 | 0.10000 | 1 | 0.47283 | 0.04430 | 0.0 | -6.9 | 0.10652 | 12/26/2024 | 12:51:03 PM |
| 9 | 0.05000 | 1 | 0.24091 | 0.02189 | 0.0 | -9.3 | 0.05477 | 12/26/2024 | 12:52:01 PM |
| 10 | 0.00000 | 1 | -0.03359 | -0.00185 | | | -0.00635 | 12/26/2024 | 12:52:57 PM |

Figure : 1 (Ammonia)




Area = - 0.05473 * Conc^2 + 4.45024 * Conc - 0.00196
Conc = 0.00085 * Area^2 + 0.22251 * Area + 0.00112
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 12/26/2024

Original Run Filename: OM_12-26-2024_05-00-23PM.OMN Created: 12/26/2024 5:00:23 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-26-2024_05-00-23PM.OMN Last Modified: 12/26/2024 5:43:56 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

D

| Sample | Rep. | Cup No. | Channel 2 Ammonia (mg N/L) | ADF | MDF | Weight |
|---|---|---|---|---|---|---|
| CCV 0.4000 | 1 | S6 | 0.38695 | 97% | | |
| | Known Conc: | | 100.00000 | | | |
| | Calibration: | | Table/Fig. : 1 | | | |
| CCV 4.0000 | 1 | S3 | 4.15840 | 104% | | |
| | Known Conc: | | 100.00000 | | | |
| CCB | 1 | S10 | 0.02279 | | | |
| | Known Conc: | | 100.00000 | | | |
| WG2013214-1 T; BLK 12/24 | 1 | 1 | 0.02441 | | | |
| WG2013214-2 T; HI LCS; 5X | 1 | 2 | 40.25373 | | 15.00 | 101% |
| LO LCS T | 1 | 3 | 4.18287 | | 3.00 | 105% |
| L2474018-01 T | 1 | ~~4~~ | ~~43.83514~~ | | 3.00 | w/ dilution. |
| L2474029-02 T | 1 | ~~5~~ | ~~23.65230~~ | | 3.00 | |
| L2474029-03 T | 1 | 6 | 1.44516 | | 3.00 | |
| L2474035-01 T | 1 | ~~7~~ | ~~44.29182~~ | | 3.00 | |
| L2474017-01 T | 1 | ~~8~~ | ~~13.56281~~ | | 15.00 | |
| L2474269-01 T | 1 | 9 | 0.27019 | | 3.00 | |
| L2474269-02 T | 1 | 10 | 0.36468 | | 3.00 | |
| CCV 0.4000 | 1 | S6 | 0.39837 | 100% | | |
| | Known Conc: | | 100.00000 | | | |
| CCV 4.0000 | 1 | S3 | 4.13590 | 104% | | |
| | Known Conc: | | 100.00000 | | | |
| CCB | 1 | S10 | 0.02589 | | | |
| | Known Conc: | | 100.00000 | | | |
| L2474269-03 T | 1 | ~~11~~ | ~~146.97179~~ | | 3.00 | |
| L2474269-04 T | 1 | ~~12~~ | ~~4.54738~~ | | 3.00 | |
| L2474269-05 T | 1 | ~~13~~ | ~~1.67343~~ | | 3.00 | |
| L2474269-06 T | 1 | 14 | 0.94552 | | 3.00 | |
| L2474269-07 T | 1 | 15 | 2.44491 | | 3.00 | |
| L2474269-08 T | 1 | 16 | 0.41027 | | 3.00 | |
| L2474269-09 T | 1 | 17 | 0.42336 | | 3.00 | |
| L2474269-10 T | 1 | 18 | 0.45024 | | 3.00 | |
| WG2013214-4 T; 74269.10 MS | 1 | 19 | 8.95486 | | 3.00 | 106% |
| WG2013214-3 T; 74269.10 DUP | 1 | 20 | 0.84708 | | 3.00 | 61% (<5×RL) |
| CCV 0.4000 | 1 | S6 | 0.41631 | 104% | | |
| | Known Conc: | | 100.00000 | | | |
| CCV 4.0000 | 1 | S3 | 4.17325 | 104% | | |
| | Known Conc: | | 100.00000 | | | |
| CCB | 1 | S10 | 0.04818 | | | |
| | Known Conc: | | 100.00000 | | | |
| L2474722-02 T | 1 | 21 | 0.09641 | | 3.00 | > Tray A |
| WG2013210-5 T; 74722.2 DUP | 1 | 22 | 0.14428 | | 3.00 | |
| WG2013210-6 T; 74722.2 MS | 1 | 23 | 8.49322 | | 3.00 | |
| L2474029-02 T | 1 | 24 | 23.03197 | | 3.00 | |
| L2474018-01 T; 10X | 1 | 25 | 50.99703 | | 30.00 | |
| L2474035-01 T; 10X | 1 | 26 | 50.13382 | | 30.00 | |
| L2474017-01 T | 1 | 27 | 10.99609 | | 15.00 | |
| L2474269-03 T; 50X | 1 | 28 | 1207.40027 | | 150.00 | |
| L2474269-04 T | 1 | 29 | 1.39417 | | 3.00 | |
| L2474269-05 T | 1 | 30 | 0.79816 | | 3.00 | |
| CCV 0.4000 | 1 | S6 | 0.39369 | 99% | | |
| | Known Conc: | | 100.00000 | | | |
| CCV 4.0000 | 1 | S3 | 4.15155 | 104% | | |
| | Known Conc: | | 100.00000 | | | |
| CCB | 1 | S10 | 0.02609 | | | |
| | Known Conc: | | 100.00000 | | | |

Author: A1WETCHEMINSTRUMENT

Date : 12/26/2024

Channel 2 (Ammonia High) - Current View

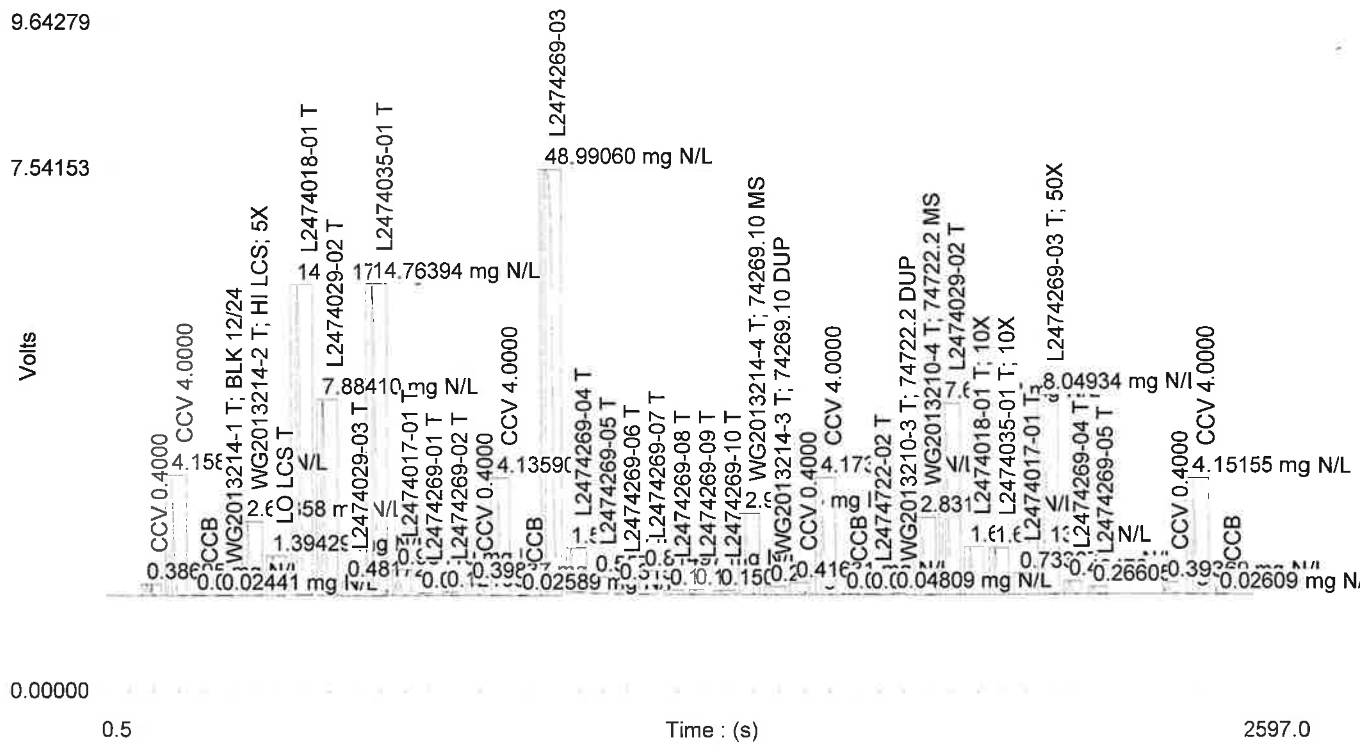
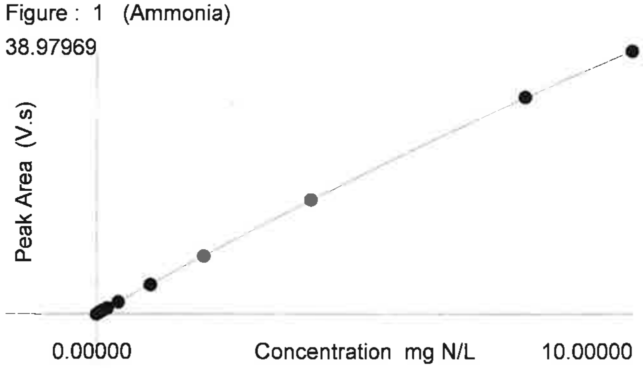



Table : 1 (Ammonia)

| | 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 | 38.97969 | 3.58279 | 0.0 | 0.1 | 9.96636 | 12/26/2024 | 12:44:20 PM |
| 2 | 8.00000 | 1 | 32.15162 | 3.02268 | 0.0 | -0.2 | 8.03411 | 12/26/2024 | 12:45:17 PM |
| 3 | 4.00000 | 1 | 16.96826 | 1.64422 | 0.0 | -0.3 | 4.02155 | 12/26/2024 | 12:46:14 PM |
| 4 | 2.00000 | 1 | 8.63260 | 0.83987 | 0.0 | 0.5 | 1.98533 | 12/26/2024 | 12:47:11 PM |
| 5 | 1.00000 | 1 | 4.35284 | 0.42227 | 0.0 | 0.9 | 0.98579 | 12/26/2024 | 12:48:08 PM |
| 6 | 0.40000 | 1 | 1.75180 | 0.16899 | 0.0 | 1.0 | 0.39352 | 12/26/2024 | 12:49:07 PM |
| 7 | 0.20000 | 1 | 0.88882 | 0.08466 | 0.0 | -0.3 | 0.19957 | 12/26/2024 | 12:50:05 PM |
| 8 | 0.10000 | 1 | 0.47283 | 0.04430 | 0.0 | -6.9 | 0.10652 | 12/26/2024 | 12:51:03 PM |
| 9 | 0.05000 | 1 | 0.24091 | 0.02189 | 0.0 | -9.3 | 0.05477 | 12/26/2024 | 12:52:01 PM |
| 10 | 0.00000 | 1 | -0.03359 | -0.00185 | | | -0.00635 | 12/26/2024 | 12:52:57 PM |

Figure : 1 (Ammonia)




Area = - 0.05473 * Conc^2 + 4.45024 * Conc - 0.00196
Conc = 0.00085 * Area^2 + 0.22251 * Area + 0.00112
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT  Date : 12/26/2024

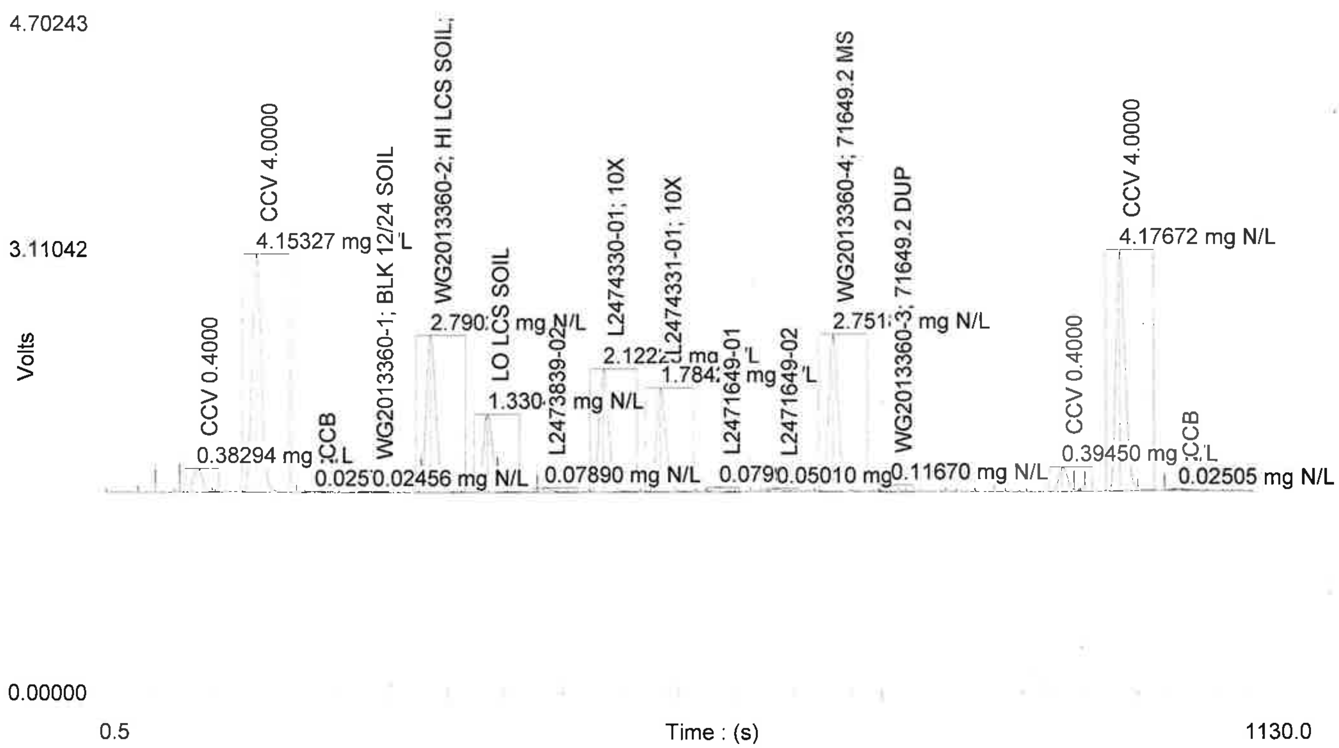
Original Run Filename: OM_12-26-2024_05-52-43PM.OMN Created: 12/26/2024 5:52:43 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-26-2024_05-52-43PM.OMN Last Modified: 12/26/2024 6:11:46 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

E

| Sample | Rep. | Cup No. | Channel 2 Ammonia (mg N/L) | ADF | MDF | Weight |
|---|---|---|---|---|---|---|
| CCV 0.4000 | 1 | S6 | 0.38294 | 96% | | |
| | Known Conc: | | 100.00000 | | | |
| | Calibration: | | Table/Fig. : 1 | 104% | | |
| CCV 4.0000 | 1 | S3 | 4.15327 | | | |
| | Known Conc: | | 100.00000 | | | |
| CCB | 1 | S10 | 0.02579 | | | |
| | Known Conc: | | 100.00000 | | | |
| WG2013360-1; BLK 12/24 SOIL | 1 | 1 | 2.66886 | | 150.00 | 1.38010 g |
| WG2013360-2; HI LCS SOIL; 5X | 1 | 2 | 1684.25500 | | 750.00 | 1.24250 g |
| LO LCS SOIL | 1 | 3 | 157.55905 | | 150.00 | 1.26660 g |
| L2473839-02 | 1 | 4 | 10.49431 | | 150.00 | 1.12770 g |
| L2474330-01; 10X | 1 | 5 | 2364.86426 | | 1500.00 | 1.34610 g |
| L2474331-01; 10X | 1 | 6 | 2413.77490 | | 1500.00 | 1.10880 g |
| L2471649-01 | 1 | 7 | 10.31143 | | 150.00 | 1.16330 g |
| L2471649-02 | 1 | 8 | 6.58161 | | 150.00 | 1.14180 g |
| WG2013360-4; 71649.2 MS | 1 | 9 | 347.65875 | | 150.00 | 1.18730 g |
| WG2013360-3; 71649.2 DUP | 1 | 10 | 15.82444 | | 150.00 | 1.10620 g |
| CCV 0.4000 | 1 | S6 | 0.39450 | 99% | | |
| | Known Conc: | | 100.00000 | | | |
| CCV 4.0000 | 1 | S3 | 4.17672 | 105% | | |
| | Known Conc: | | 100.00000 | | | |
| CCB | 1 | S10 | 0.02505 | | | |
| | Known Conc: | | 100.00000 | | | |

105% hi LCS - 1610 mg/kg
100% lo LCS - 158 mg/kg
101%
83% (LCS+MS) MS - 337 mg/kg

Channel 2 (Ammonia High) - Current View

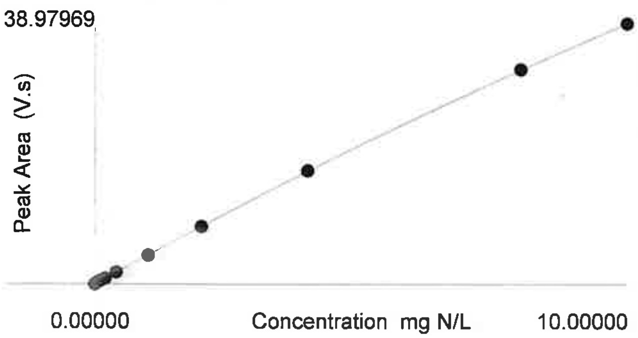


Author: A1WETCHEMINSTRUMENT Date : 12/26/2024

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 | 38.97969 | 3.58279 | 0.0 | 0.1 | 9.96636 | 12/26/2024 | 12:44:20 PM |
| 2 | 8.00000 | 1 | 32.15162 | 3.02268 | 0.0 | -0.2 | 8.03411 | 12/26/2024 | 12:45:17 PM |
| 3 | 4.00000 | 1 | 16.96826 | 1.64422 | 0.0 | -0.3 | 4.02155 | 12/26/2024 | 12:46:14 PM |
| 4 | 2.00000 | 1 | 8.63260 | 0.83987 | 0.0 | 0.5 | 1.98533 | 12/26/2024 | 12:47:11 PM |
| 5 | 1.00000 | 1 | 4.35284 | 0.42227 | 0.0 | 0.9 | 0.98579 | 12/26/2024 | 12:48:08 PM |
| 6 | 0.40000 | 1 | 1.75180 | 0.16899 | 0.0 | 1.0 | 0.39352 | 12/26/2024 | 12:49:07 PM |
| 7 | 0.20000 | 1 | 0.88882 | 0.08466 | 0.0 | -0.3 | 0.19957 | 12/26/2024 | 12:50:05 PM |
| 8 | 0.10000 | 1 | 0.47283 | 0.04430 | 0.0 | -6.9 | 0.10652 | 12/26/2024 | 12:51:03 PM |
| 9 | 0.05000 | 1 | 0.24091 | 0.02189 | 0.0 | -9.3 | 0.05477 | 12/26/2024 | 12:52:01 PM |
| 10 | 0.00000 | 1 | -0.03359 | -0.00185 | | | -0.00635 | 12/26/2024 | 12:52:57 PM |

Figure : 1 (Ammonia)




Area = - 0.05473 * Conc^2 + 4.45024 * Conc - 0.00196
Conc = 0.00085 * Area^2 + 0.22251 * Area + 0.00112
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 12/26/2024

Original Run Filename: OM_12-26-2024_08-49-30PM.OMN Created: 12/26/2024 8:49:30 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-26-2024_08-49-30PM.OMN Last Modified: 12/26/2024 9:17:08 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

F

| Sample | Rep. | Cup No. | Channel 2 Ammonia (mg N/L) | ADF | MDF | Weight |
|---|---|---|---|---|---|---|
| CCV 0.4000 | 1 | S6 | 0.41035 | 103% | | |
| | | Known Conc: | 100.00000 | | | |
| | | Calibration: | Table/Fig. : 1 | | | |
| CCV 4.0000 | 1 | S3 | 4.20130 | 105% | | |
| | | Known Conc: | 100.00000 | | | |
| CCB | 1 | S10 | 0.03229 ✓ | | | |
| | | Known Conc: | 100.00000 | | | |
| WG2013570-1; BLK 12/26 | 1 | 1 | 0.03777 | | 1.50 | |
| WG2013570-2; HI LCS; 5X | 1 | 2 | 19.98930 | | 7.50 | 100% |
| LO LCS | 1 | 3 | 1.97804 | | 1.50 | 99% |
| L2472497-26 | 1 | 4 | 1.86847 | | 1.50 | |
| L2475365-01; 10X | 1 | 5 | 17.22324 | | 15.00 | |
| WG2013570-4; 75365.1 MS; 10X | 1 | 6 | 21.66455 | | 15.00 | 111% |
| WG2013570-3; 75365.1 DUP; 10X | 1 | 7 | 18.03078 ✓ | | 15.00 | 5% |
| L2474409-01 | 1 | 8 | 2.99727 | | 1.50 | |
| L2474368-01 | 1 | 9 | 5.38537 | | 1.50 | |
| L2474368-02 | 1 | 10 | 0.17112 | | 1.50 | |
| CCV 0.4000 | 1 | S6 | 0.41154 | 103% | | |
| | | Known Conc: | 100.00000 | | | |
| CCV 4.0000 | 1 | S3 | 4.21264 | 105% | | |
| | | Known Conc: | 100.00000 | | | |
| CCB | 1 | S10 | 0.03161 ✓ | | | |
| | | Known Conc: | 100.00000 | | | |
| L2474410-01 | 1 | 11 | 4.78279 | | 1.50 | |
| L2474410-02 | 1 | 12 | 2.19331 | | 1.50 | |
| L2473547-01 | 1 | ~~13~~ | ~~491.54611~~ | | 30.00 | |
| L2474465-01 | 1 | ~~14~~ | ~~589.89825~~ | | 30.00 | redilution |
| L2474465-02 | 1 | ~~15~~ | ~~324.54767~~ | | 15.00 | |
| L2474465-03 | 1 | ~~16~~ | ~~68.56090~~ | | 15.00 | |
| L2474591-03 | 1 | ~~17~~ | ~~85.18635~~ | | 7.50 | |
| L2474591-06 | 1 | ~~18~~ | ~~1.27285~~ | | 1.50 | |
| L2474507-01 | 1 | 19 | 0.16166 | | 1.50 | |
| L2474505-01 | 1 | 20 | 39.28465 | | 7.50 | |
| CCV 0.4000 | 1 | S6 | 0.54640 | | | |
| | | Known Conc: | 100.00000 | | | |

reinject - OK

Author: A1WETCHEMINSTRUMENT

Date : 12/26/2024

Channel 2 (Ammonia High) - Current View

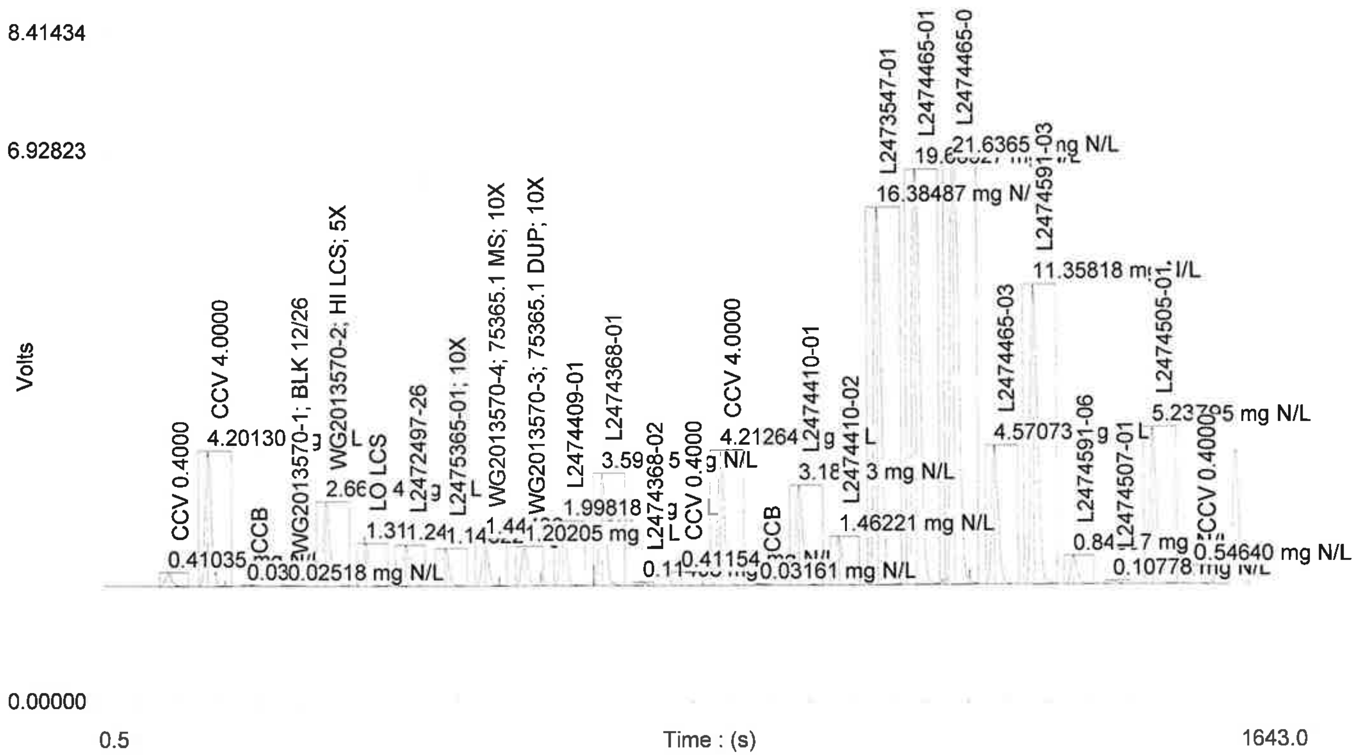
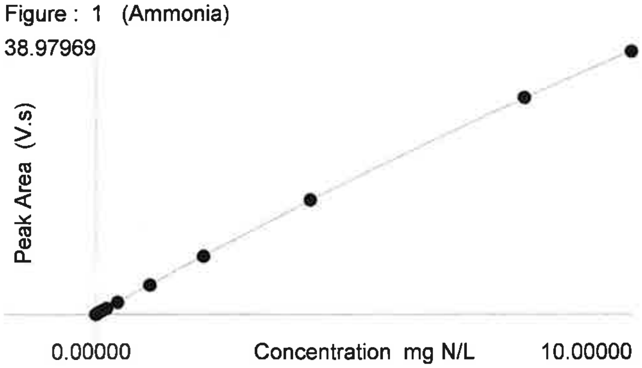



Table : 1 (Ammonia)

| | 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 | 38.97969 | 3.58279 | 0.0 | 0.1 | 9.96636 | 12/26/2024 | 12:44:20 PM |
| 2 | 8.00000 | 1 | 32.15162 | 3.02268 | 0.0 | -0.2 | 8.03411 | 12/26/2024 | 12:45:17 PM |
| 3 | 4.00000 | 1 | 16.96826 | 1.64422 | 0.0 | -0.3 | 4.02155 | 12/26/2024 | 12:46:14 PM |
| 4 | 2.00000 | 1 | 8.63260 | 0.83987 | 0.0 | 0.5 | 1.98533 | 12/26/2024 | 12:47:11 PM |
| 5 | 1.00000 | 1 | 4.35284 | 0.42227 | 0.0 | 0.9 | 0.98579 | 12/26/2024 | 12:48:08 PM |
| 6 | 0.40000 | 1 | 1.75180 | 0.16899 | 0.0 | 1.0 | 0.39352 | 12/26/2024 | 12:49:07 PM |
| 7 | 0.20000 | 1 | 0.88882 | 0.08466 | 0.0 | -0.3 | 0.19957 | 12/26/2024 | 12:50:05 PM |
| 8 | 0.10000 | 1 | 0.47283 | 0.04430 | 0.0 | -6.9 | 0.10652 | 12/26/2024 | 12:51:03 PM |
| 9 | 0.05000 | 1 | 0.24091 | 0.02189 | 0.0 | -9.3 | 0.05477 | 12/26/2024 | 12:52:01 PM |
| 10 | 0.00000 | 1 | -0.03359 | -0.00185 | | | -0.00635 | 12/26/2024 | 12:52:57 PM |

Figure : 1 (Ammonia)




Area = - 0.05473 * Conc^2 + 4.45024 * Conc - 0.00196
Conc = 0.00085 * Area^2 + 0.22251 * Area + 0.00112
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 12/26/2024

Original Run Filename: OM_12-26-2024_09-20-37PM.OMN Created: 12/26/2024 9:20:37 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-26-2024_09-20-37PM.OMN Last Modified: 12/26/2024 9:43:24 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

F2

| Sample | Rep. | Cup No. | Channel 2 Ammonia (mg N/L) | ADF | MDF | Weight |
|---|---|---|---|---|---|---|
| CCV 0.4000 | 1 | S6 | 0.40634 | 102% | | |
| | Known Conc: | | 100.00000 | | | |
| CCV 4.0000 | 1 | S3 | 4.22210 | 106% | | |
| | Known Conc: | | 100.00000 | | | |
| | Calibration: | | Table/Fig. : 1 | | | |
| CCB | 1 | S10 | 0.03428 | ✓ | | |
| | Known Conc: | | 100.00000 | | | |
| L2474659-01 | 1 | 21 | 0.22615 | | 1.50 | |
| L2474677-01 | 1 | 22 | 0.08368 | | 1.50 | |
| L2474678-01 | 1 | 23 | 0.10302 | | 1.50 | |
| L2474682-01 | 1 | 24 | 7.37479 | | 1.50 | |
| L2474682-03 | 1 | 25 | 0.45599 | | 1.50 | |
| L2474465-01; 10X | 1 | 26 | 677.70203 | | 300.00 | |
| L2474465-02; 10X | 1 | 27 | 431.22739 | | 150.00 | |
| L2474465-03 | 1 | 28 | 62.68608 | | 15.00 | |
| L2473547-01; 10X | 1 | 29 | 558.33618 | | 300.00 | |
| L2474591-06 | 1 | 30 | 0.96655 | | 1.50 | |
| CCV 0.4000 | 1 | S6 | 0.41692 | 104% | | |
| | Known Conc: | | 100.00000 | | | |
| CCV 4.0000 | 1 | S3 | 4.18177 | 105% | | |
| | Known Conc: | | 100.00000 | | | |
| CCB | 1 | S10 | 0.03230 | ✓ | | |
| | Known Conc: | | 100.00000 | | | |
| L2474591-03; 10X | 1 | 31 | 90.81481 | | 75.00 | |
| CCV 0.4000 | 1 | S6 | 0.40010 | 100% | | |
| | Known Conc: | | 100.00000 | | | |
| CCV 4.0000 | 1 | S3 | 4.14823 | 104% | | |
| | Known Conc: | | 100.00000 | | | |
| CCB | 1 | S10 | 0.03123 | ✓ | | |
| | Known Conc: | | 100.00000 | | | |

Author: A1WETCHEMINSTRUMENT Date : 12/26/2024

Channel 2 (Ammonia High) - Current View

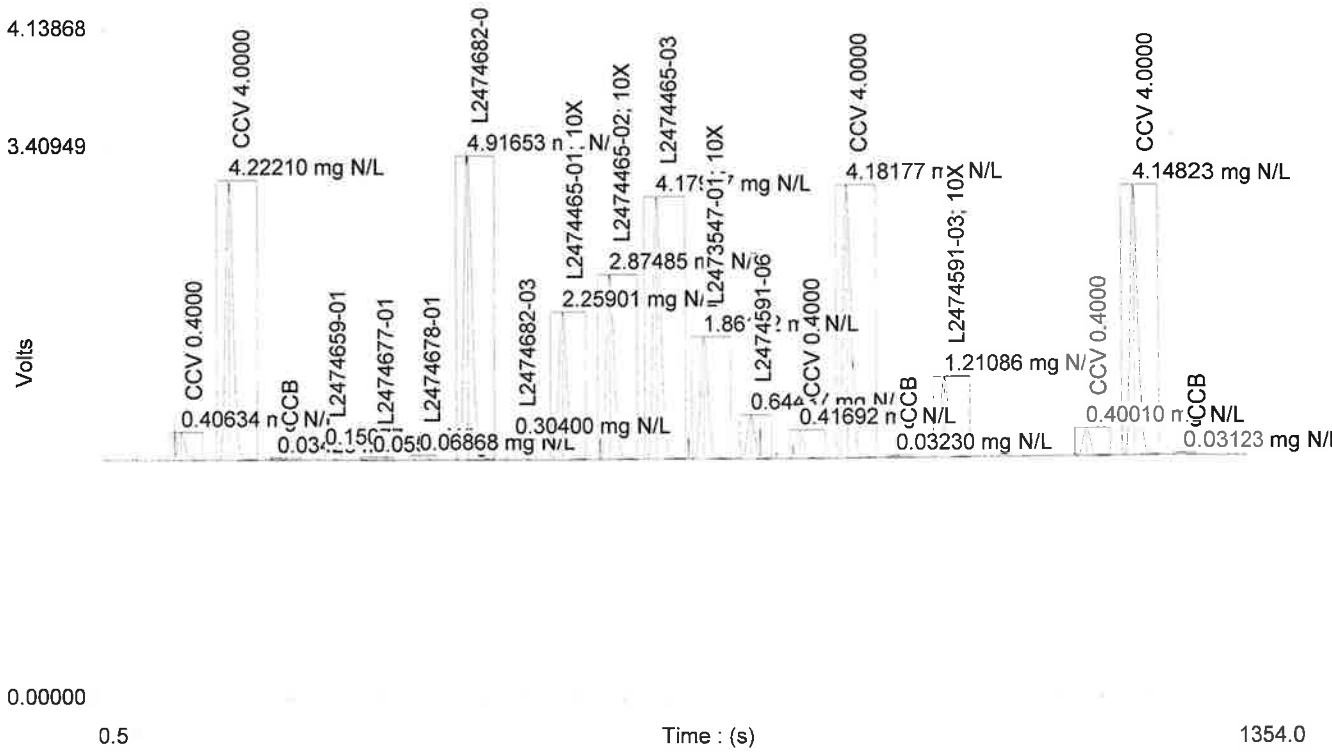
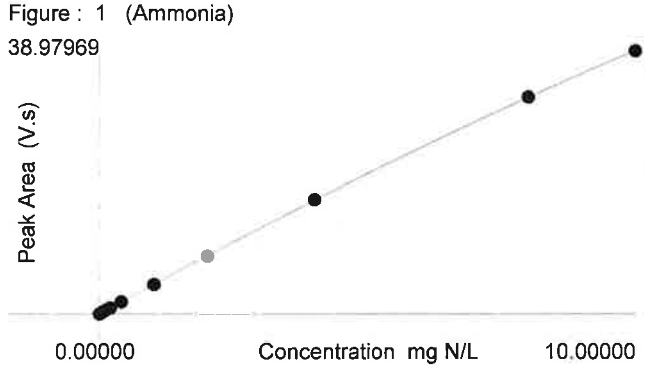



Table : 1 (Ammonia)

| | 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 | 38.97969 | 3.58279 | 0.0 | 0.1 | 9.96636 | 12/26/2024 | 12:44:20 PM |
| 2 | 8.00000 | 1 | 32.15162 | 3.02268 | 0.0 | -0.2 | 8.03411 | 12/26/2024 | 12:45:17 PM |
| 3 | 4.00000 | 1 | 16.96826 | 1.64422 | 0.0 | -0.3 | 4.02155 | 12/26/2024 | 12:46:14 PM |
| 4 | 2.00000 | 1 | 8.63260 | 0.83987 | 0.0 | 0.5 | 1.98533 | 12/26/2024 | 12:47:11 PM |
| 5 | 1.00000 | 1 | 4.35284 | 0.42227 | 0.0 | 0.9 | 0.98579 | 12/26/2024 | 12:48:08 PM |
| 6 | 0.40000 | 1 | 1.75180 | 0.16899 | 0.0 | 1.0 | 0.39352 | 12/26/2024 | 12:49:07 PM |
| 7 | 0.20000 | 1 | 0.88882 | 0.08466 | 0.0 | -0.3 | 0.19957 | 12/26/2024 | 12:50:05 PM |
| 8 | 0.10000 | 1 | 0.47283 | 0.04430 | 0.0 | -6.9 | 0.10652 | 12/26/2024 | 12:51:03 PM |
| 9 | 0.05000 | 1 | 0.24091 | 0.02189 | 0.0 | -9.3 | 0.05477 | 12/26/2024 | 12:52:01 PM |
| 10 | 0.00000 | 1 | -0.03359 | -0.00185 | | | -0.00635 | 12/26/2024 | 12:52:57 PM |

Figure : 1 (Ammonia)




Area = - 0.05473 * Conc^2 + 4.45024 * Conc - 0.00196
Conc = 0.00085 * Area^2 + 0.22251 * Area + 0.00112
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

# Quality Control

# Form 5a
# Matrix Spike

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : | **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : | **L2474329** |
| **Project Name** | : | **CORAM MATERIALS** | **Project Number** | : | **2232.0006Y005** |
| **Client Sample ID** | : | **NA** | **Matrix** | : | **DW** |
| **Lab Sample ID** | : | **L2474303-02** | | | |
| **Matrix Spike** | : | **WG2013217-4** | **MS Analysis Date** | : | **12/26/24 15:58** |
| **Matrix Spike Dup** | : | | **MSD Analysis Date** | : | |

| | | Matrix Spike Sample | | | Matrix Spike Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Parameter** | **Sample Conc. (mg/l)** | **Spike Added (mg/l)** | **Spike Conc. (mg/l)** | **%R** | **Spike Added (mg/l)** | **Spike Conc. (mg/l)** | **%R** | **RPD** | **Recovery Limits** | **RPD Limit** |
| Nitrogen, Total Kjeldahl | 0.633 | 8 | 9.24 | 108 | | | | | 77-111 | 24 |

# Form 6
# Lab Duplicates

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Client Sample ID** | : NA | **Matrix** | : DW |
| **Lab Sample ID** | : NA | **Analysis Date** | : 12/26/24 15:57 |
| **Dup Sample ID** | : WG2013217-3 | **DUP Analysis Date** | : 12/26/24 15:59 |

| Parameter | Sample Concentration (mg/l) | Duplicate Concentration (mg/l) | RPD | RPD Limit |
|---|---|---|---|---|
| Nitrogen, Total Kjeldahl | 0.633 | 0.783 | 21 | 24 |

# Form 7
# Laboratory Control Sample

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Client Sample ID** | : NA | **Matrix** | : DW |
| **Lab Sample ID** | : WG2013217-2 | **LCS Analysis Date** | : 12/26/24 15:54 |
| **Dup Sample ID** | : | **LCSD Analysis Date** | : |

| Parameter | Laboratory Control Sample True (mg/l) | Found (mg/l) | %R | Laboratory Control Duplicate True (mg/l) | Found (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Total Kjeldahl | 40.0 | 41.8 | 104. | | | | | 78-122 | 24 |

**Date Created:** 11/11/21
**Created By:** Jason Hebert
**File:** PM11467-1
**Page:** 1

**WETCHEM (WATER)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Method | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Total Kjeldahl | NONE | 0.3 | 0.066 | mg/l | 78-122 | | 77-111 | 24 | 24 | 4500NH3-H | 28 days | 1 - Plastic 500ml H2SO4 preserved |
| Nitrogen, Total Kjeldahl | NONE | 0.3 | 0.066 | mg/l | 78-122 | | 77-111 | 24 | 24 | 351.1 | 28 days | 1 - Plastic 500ml H2SO4 preserved |

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

**Date Created:** 11/11/21
**Created By:** Jason Hebert
**File:** PM11468-1
**Page:** 1

**WETCHEM (SOIL)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Method | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Total Kjeldahl | NONE | 150 | 31.5 | mg/kg | 81-115 | 26 | 43-160 | 26 | 26 | 4500NH3-H | 28 days | 1 - Glass 250ml/8oz unpreserved |

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

# **Calculations of Nitrogen in TKN**

Aqueous samples:

Compute sample TKN –N concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

If the sample has a concentration of less than 2ppm, calculate results by using the low curve generated on Channel 1.

If the sample concentration is greater than 2ppm, calculate the results by using the high curve generated on Channel 2.

To Compute the final results for aqueous samples, multiply the direct reading by the dilution factor based on the initial preparation volume. (also done using software)

TKN-N mg/L = mg/L direct reading x dilution factor

# Sequence Logs

Project No. ____
fidential Book No. ____ TITLE NH3 12/26/24 EYA

n Page No. ____

Tray A {12-38-12 Pm / 01-26-07 pm / 01-46-08 pm}
Prep 12/24/24 @ 18:00

TKW

| | | | |
|---|---|---|---|
| | Hi ICV 8.0 | | |
| 2 | Low ICV 1.0 | | |
| 3 | ICB | | |
| 4 | WG2013210 - 1 | BLK | |
| 5 | LCS Hi - 2 | (5x) | |
| 6 | LCS Low | | |
| 7 | L2473108 | -02 | 30x |
| 8 | 4014 | - 01 | (2x) |
| 9 | 4015 | - 01 | 20x |
| 10 | 4016 | -01 | 20x |
| 11 | | -02 | |
| 12 | 4051 | -01 | |
| 13 | 4302 | - 01 | |
| 14 | | -02 | |
| 15 | 4716 | - 01 | |
| 16 | | -02 | |
| 17 | 4717 | -01 | |
| 18 | | -02 | |
| 19 | 4722 | - 02 | |
| 20 | | -02 | MS |
| 21 | | -02 | Dup |
| 22 | 4924 | -01 | |
| 23 | | -02 | 10x |

Tray B (~~02-37-43 PM~~ 03-49-26 Pm)
Prep - 12/24/24 @ 18:00

TKW

| | | |
|---|---|---|
| 1 | WG2013217 - 1 BLK | |
| 2 | LCS Hi - 2 (5x) | |
| 3 | LCS Low | |
| 4 | L2474303 | -01 |
| 5 | | -02 |
| 6 | | -02 ~~MS~~ MS |
| 7 | | -02 Dup |
| 8 | | -03 |
| 9 | | -04 |
| 10 | | -05 |
| 11 | | -06 |
| 12 | | -07 |
| 13 | | -08 |
| 14 | 4329 | -01 |
| 15 | | -02 |
| 16 | | -03 |
| 17 | | -04 |
| 18 | | -05 |
| 19 | 4663 | -01 |
| 20 | | -02 |

Date: 12/26/24
Sodium Phenolate: 12/2/24 R-4065
Sodium Hypochlorate: 12/2/24 Stop&Shop
Sodium Nitropruisside: 12/2/24 R-3969
Borric Acid Soln.: 12/2/24 . R-4019
ICV 1.0: 12/21/24 WC 3508
ICV 8.0:
Cal. Std: 12/26/24 WC 3438
See Front Page for Instructions:

To Page No. ____

Witnessed & Understood by me, | Date | Invented by: | Date
Recorded by:

NCP 12/26/24 (Ai Cat.

TITLE ______ Project No. ______ Book No. ______ Confic

From Page No. ____

Tray C (04-31-57pm)

Prep - 12/24/24 @ 18:15

1 WG2013231-1 Blank
2 LCS Hi -2 (5x)
3 LCS LOW
4 L2474226-02
5 X -03 (5x) -10x
6 X 4228-01 (2x)
7 4229-01
8 4722-02
9 -02 MS
10 -02 Dup

tray D (05-00-23pm)
Prep 12/24/24 @ 800

1 WG2013214-1 T; Blk 12/24
2 WG2013214-2 T; Hi WS T x
3 Lo WS T
4 X 74018.1 T -10x
5 X 74029.2 T
6 .3 T
7 X 74035.1 T -10x
8 X 74017.1 T (5x)
9 74269.1 T
10 .2 T
11 X .3 T -50x
12 X .4 T
13 X .5 T
14 .6 T
15 .7 T
16 .8 T
17 .9 T
18 .10 T
19 WG2013214-4 T; 74269.10 MS
20 WG2013214-3 T; 74269.10 Dup
21 ~~74722.2~~
22 WG2013240-5 T; 74722.2 Dup
23 WG2013210-6; 74722.2 MS

Tw

tray E (05-52-43pm)
Prep 12/24/24 @ 935

1 WG2013360-1; Blk 12/24 Soil (1.5801)
2 WG2013360-2; Hi WS Soil-5x (1.2425)
3 Lo WS Soil (1.2666)
4 73839.2 (1.1277)
5 74330.1-10x (1.3461)
6 74331.1-10x (1.1088)
7 71649.1 (1.1633)
8 .2 (1.1418)
9 WG2013360-4; 71649.2 MS (1.1873)
10 WG2013360-3; 71649.2 Dup (1.1062)

To Page No.

Witnessed & Understood by me, | Date | Invented by: | Date
Recorded by:

6 Project No. ____________
Confidential Book No. ____________ TITLE NH3 12/26/24 (AT) Cont.

From Page No. ____

Ly-F (08-49-30pm)
Kp 12/26/24 C1830

1 WL-2013570-1; BW 12/24 (2013582)
2 WL-2013570-2; tt 4 5+
3 (w/s)
4 72457-26
5 75365-1 -10+
6 WL-2013570-4; 75365-1 (m3) -10+
7 WL-2013570-3; 75365-1 bp -10+
8 74407-1
9 74368-1
10 .2
11 74410-1
12 .2
13 73547-1 (20+) -10+
14 74465-1 (20+) -10+
15 .2 (10+) -10+
16 .3 (10+)
17 74591.3 (5+) -10+
18 .6
19 74507-1
20 74505-1 (5+)
21 74659.1
22 74677-1
23 74678-1
24 74682-1
25 .3

09-20-37pm

To Page No. ____

Witnessed & Understood by me, Date Invented by: Date

Recorded by:

# Sample Preparation

| Sample | Dil. | Vol. | Final vol |
|---|---|---|---|
| Blank | 1X | 50mL | 150mL |
| Low | | | |
| High | | | |
| L2474303-01 | | | |
| -02 Pt | | | |
| -02 Dup | | | |
| -02 MS | | | |
| -03 | | | |
| -04 | | | |
| -05 | | | |
| -06 | | | |
| -07 | | | |
| -08 | | | |
| 74329-01 | | | |
| -02 | | | |
| -03 | | | |
| -04 | | | |
| -05 | | | |
| 74663-01 | | | |
| -02 | | | |

Same Standards 12 24 24 @ 18:00 SAD
& Reagents
as previous
pg # 136
Nitrates checked



Witnessed & Understood by me, | Date | Invented by: | Date
Recorded by:

# Nitrate and Nitrite Analysis

# Results

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Lab ID** | : L2474329-01 | **Date Collected** | : 12/16/24 11:00 |
| **Client ID** | : MW-4S | **Date Received** | : 12/17/24 |
| **Sample Location** | : 416 MILLER PLACE-YAPHANK ROAD | **Date Analyzed** | : 12/18/24 06:03 |
| **Sample Matrix** | : WATER | **Dilution Factor** | : 1 |
| **Analytical Method** | : 121,4500NO3-F | **Analyst** | : KAF |
| **Lab File ID** | : NO3241218-A1 | **Instrument ID** | : FIA1 |
| **Sample Amount** | : | **%Solids** | : N/A |
| **Digestion Method** | : | **Date Digested** | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| NONE | Nitrogen, Nitrite | ND | 0.050 | 0.013 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-02 | Date Collected | : 12/16/24 11:50 |
| Client ID | : MW-4D2 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/18/24 06:11 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500NO3-F | Analyst | : KAF |
| Lab File ID | : NO3241218-A1 | Instrument ID | : FIA1 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Nitrogen, Nitrite | ND | 0.050 | 0.013 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-03 | Date Collected | : 12/16/24 08:45 |
| Client ID | : MW-12S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/18/24 06:12 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500NO3-F | Analyst | : KAF |
| Lab File ID | : NO3241218-A1 | Instrument ID | : FIA1 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Nitrogen, Nitrite | ND | 0.050 | 0.013 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-04 | Date Collected | : 12/16/24 09:33 |
| Client ID | : MW-12D | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/18/24 06:14 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500NO3-F | Analyst | : KAF |
| Lab File ID | : NO3241218-A1 | Instrument ID | : FIA1 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| CAS NO. | Parameter | mg/l Results | RL | MDL | Qualifier |
|---|---|---|---|---|---|
| NONE | Nitrogen, Nitrite | ND | 0.050 | 0.013 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-05 | Date Collected | : 12/16/24 12:00 |
| Client ID | : EB-12162024 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/18/24 06:15 |
| Sample Matrix | : Equipment Blank | Dilution Factor | : 1 |
| Analytical Method | : 121,4500NO3-F | Analyst | : KAF |
| Lab File ID | : NO3241218-A1 | Instrument ID | : FIA1 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Nitrogen, Nitrite | ND | 0.050 | 0.013 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: WG2010531-1** | **Date Collected** | **: NA** |
| **Client ID** | **: WG2010531-1BLANK** | **Date Received** | **: NA** |
| **Sample Location** | **:** | **Date Analyzed** | **: 12/18/24 03:23** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 121,4500NO3-F** | **Analyst** | **: KAF** |
| **Lab File ID** | **: NO3241218-A1** | **Instrument ID** | **: FIA1** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **:** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Nitrogen, Nitrite | ND | 0.050 | 0.013 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: WG2010531-3** | **Date Collected** | **: 12/16/24 11:00** |
| **Client ID** | **: MW-4SDUP** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **:** | **Date Analyzed** | **: 12/18/24 06:09** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 121,4500NO3-F** | **Analyst** | **: KAF** |
| **Lab File ID** | **: NO3241218-A1** | **Instrument ID** | **: FIA1** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **:** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| NONE | Nitrogen, Nitrite | ND | 0.050 | 0.013 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-01 | Date Collected | : 12/16/24 11:00 |
| Client ID | : MW-4S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/18/24 06:03 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500NO3-F | Analyst | : KAF |
| Lab File ID | : NO3241218-A1 | Instrument ID | : FIA1 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 14797-55-8 | Nitrogen, Nitrate | 3.50 | 0.100 | 0.022 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-02** | **Date Collected** | **: 12/16/24 11:50** |
| **Client ID** | **: MW-4D2** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/18/24 06:11** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 121,4500NO3-F** | **Analyst** | **: KAF** |
| **Lab File ID** | **: NO3241218-A1** | **Instrument ID** | **: FIA1** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **:** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 14797-55-8 | Nitrogen, Nitrate | 2.16 | 0.100 | 0.022 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Lab ID** | : **L2474329-03** | **Date Collected** | : **12/16/24 08:45** |
| **Client ID** | : **MW-12S** | **Date Received** | : **12/17/24** |
| **Sample Location** | : **416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | : **12/18/24 06:12** |
| **Sample Matrix** | : **WATER** | **Dilution Factor** | : **1** |
| **Analytical Method** | : **121,4500NO3-F** | **Analyst** | : **KAF** |
| **Lab File ID** | : **NO3241218-A1** | **Instrument ID** | : **FIA1** |
| **Sample Amount** | : | **%Solids** | : **N/A** |
| **Digestion Method** | : | **Date Digested** | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 14797-55-8 | Nitrogen, Nitrate | 2.40 | 0.100 | 0.022 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-04 | Date Collected | : 12/16/24 09:33 |
| Client ID | : MW-12D | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/18/24 06:14 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500NO3-F | Analyst | : KAF |
| Lab File ID | : NO3241218-A1 | Instrument ID | : FIA1 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 14797-55-8 | Nitrogen, Nitrate | 4.38 | 0.100 | 0.022 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Lab ID** | : L2474329-05 | **Date Collected** | : 12/16/24 12:00 |
| **Client ID** | : EB-12162024 | **Date Received** | : 12/17/24 |
| **Sample Location** | : 416 MILLER PLACE-YAPHANK ROAD | **Date Analyzed** | : 12/18/24 06:15 |
| **Sample Matrix** | : Equipment Blank | **Dilution Factor** | : 1 |
| **Analytical Method** | : 121,4500NO3-F | **Analyst** | : KAF |
| **Lab File ID** | : NO3241218-A1 | **Instrument ID** | : FIA1 |
| **Sample Amount** | : | **%Solids** | : N/A |
| **Digestion Method** | : | **Date Digested** | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 14797-55-8 | Nitrogen, Nitrate | ND | 0.100 | 0.022 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2010532-1 | Date Collected | : NA |
| Client ID | : WG2010532-1BLANK | Date Received | : NA |
| Sample Location | : | Date Analyzed | : 12/18/24 03:30 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500NO3-F | Analyst | : KAF |
| Lab File ID | : NO3241218-A1 | Instrument ID | : FIA1 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 14797-55-8 | Nitrogen, Nitrate | ND | 0.100 | 0.022 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2010532-3 | Date Collected | : 12/16/24 11:00 |
| Client ID | : MW-4SDUP | Date Received | : 12/17/24 |
| Sample Location | : | Date Analyzed | : 12/18/24 06:07 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500NO3-F | Analyst | : KAF |
| Lab File ID | : NO3241218-A1 | Instrument ID | : FIA1 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 14797-55-8 | Nitrogen, Nitrate | 3.50 | 0.100 | 0.023 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-01 | Date Collected | : 12/16/24 11:00 |
| Client ID | : MW-4S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/18/24 06:03 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500NO3-F | Analyst | : KAF |
| Lab File ID | : NO3241218-A1 | Instrument ID | : FIA1 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| CAS NO. | Parameter | mg/l Results | RL | MDL | Qualifier |
|---|---|---|---|---|---|
| NONE | Nitrogen, Nitrate/Nitrite | 3.5 | 0.10 | 0.046 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-02 | Date Collected | : 12/16/24 11:50 |
| Client ID | : MW-4D2 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/18/24 06:11 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500NO3-F | Analyst | : KAF |
| Lab File ID | : NO3241218-A1 | Instrument ID | : FIA1 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Nitrogen, Nitrate/Nitrite | 2.2 | 0.10 | 0.046 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-03 | Date Collected | : 12/16/24 08:45 |
| Client ID | : MW-12S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/18/24 06:12 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500NO3-F | Analyst | : KAF |
| Lab File ID | : NO3241218-A1 | Instrument ID | : FIA1 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Nitrogen, Nitrate/Nitrite | 2.4 | 0.10 | 0.046 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-04** | **Date Collected** | **: 12/16/24 09:33** |
| **Client ID** | **: MW-12D** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/18/24 06:14** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 121,4500NO3-F** | **Analyst** | **: KAF** |
| **Lab File ID** | **: NO3241218-A1** | **Instrument ID** | **: FIA1** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **:** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| NONE | Nitrogen, Nitrate/Nitrite | 4.4 | 0.10 | 0.046 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-05 | Date Collected | : 12/16/24 12:00 |
| Client ID | : EB-12162024 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/18/24 06:15 |
| Sample Matrix | : Equipment Blank | Dilution Factor | : 1 |
| Analytical Method | : 121,4500NO3-F | Analyst | : KAF |
| Lab File ID | : NO3241218-A1 | Instrument ID | : FIA1 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Nitrogen, Nitrate/Nitrite | ND | 0.10 | 0.046 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2010533-1 | Date Collected | : NA |
| Client ID | : WG2010533-1BLANK | Date Received | : NA |
| Sample Location | : | Date Analyzed | : 12/18/24 03:30 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500NO3-F | Analyst | : KAF |
| Lab File ID | : NO3241218-A1 | Instrument ID | : FIA1 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Nitrogen, Nitrate/Nitrite | ND | 0.10 | 0.046 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: WG2010533-3** | **Date Collected** | **: 12/16/24 11:00** |
| **Client ID** | **: MW-4SDUP** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **:** | **Date Analyzed** | **: 12/18/24 06:07** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 121,4500NO3-F** | **Analyst** | **: KAF** |
| **Lab File ID** | **: NO3241218-A1** | **Instrument ID** | **: FIA1** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **:** |

| CAS NO. | Parameter | mg/l Results | RL | MDL | Qualifier |
|---|---|---|---|---|---|
| NONE | Nitrogen, Nitrate/Nitrite | 3.5 | 0.10 | 0.05 | |

# Sample Raw Data

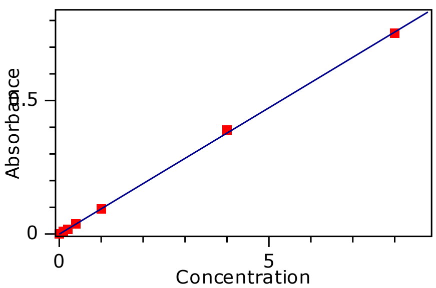
Graphical report generated by FIAsoft v3.1.10
Report generated on 2024-12-18 07:26:08
Data file (.dat): C:\FIAlab\Autosave Data\2024-12-18-072546.dat

Dataset Notes:

| Analyst | |
|---|---|

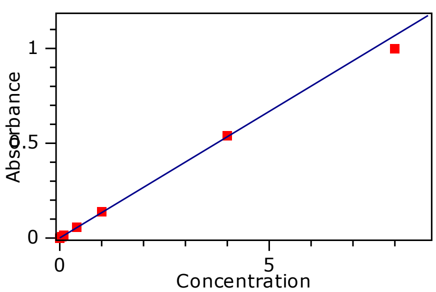
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:




Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: -0.00051
B: 0.09465
$R^2$: 0.99967
RSE(%): 1.87665
% Max. for OVR: 100

| InjNo | Name | Response | Known Conc. mg/L | Calc. Conc. mg/L | % Error | Time |
|---|---|---|---|---|---|---|
| 2 | NOx 8.0ppm | 0.75190 | 8.00000 | 7.94910 | 0.64 | 2024-12-18T02:47:52 |
| 3 | NOx 4.0ppm | 0.38990 | 4.00000 | 4.12490 | 3.12 | 2024-12-18T02:49:02 |
| 4 | NOx 1.0ppm | 0.09320 | 1.00000 | 0.98950 | 1.05 | 2024-12-18T02:50:09 |
| 5 | NOx 0.4ppm | 0.03710 | 0.40000 | 0.39710 | 0.73 | 2024-12-18T02:51:17 |
| 6 | NOx 0.2ppm | 0.01820 | 0.20000 | 0.19750 | 1.26 | 2024-12-18T02:52:27 |
| 7 | NOx 0.1ppm | 0.00900 | 0.10000 | 0.10080 | 0.84 | 2024-12-18T02:53:36 |
| 8 | NOx 0.0ppm | 0.00010 | 0.00000 | 0.00690 | NA | 2024-12-18T02:54:48 |




Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00058
B: 0.13344
$R^2$: 0.99858
RSE(%): 4.17398
% Max. for OVR: 100

| InjNo | Name | Response | Known Conc. mg/L | Calc. Conc. mg/L | % Error | Time |
|---|---|---|---|---|---|---|
| 9 | Nitrite 8.0ppm | 0.99960 | 8.00000 | 7.48670 | 6.42 | 2024-12-18T02:55:43 |
| 10 | Nitrite 4.0ppm | 0.54040 | 4.00000 | 4.04560 | 1.14 | 2024-12-18T02:56:52 |
| 11 | Nitrite 1.0ppm | 0.13770 | 1.00000 | 1.02790 | 2.79 | 2024-12-18T02:57:58 |
| 12 | Nitrite 0.4ppm | 0.05620 | 0.40000 | 0.41670 | 4.18 | 2024-12-18T02:59:08 |
| 13 | Nitrite 0.1ppm | 0.01400 | 0.10000 | 0.10080 | 0.84 | 2024-12-18T03:00:17 |
| 14 | Nitrite 0.05ppm | 0.00720 | 0.05000 | 0.04940 | 1.10 | 2024-12-18T03:01:27 |
| 15 | Nitrite 0.0ppm | 0.00020 | 0.00000 | -0.00300 | NA | 2024-12-18T03:02:36 |

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 | 0.0079 | | 2024-12-18T02:46:40 |
| NOx 8.0ppm | 2 | Standard | 8 | 0.7519 | 1 | 1 | 1 | 7.9491 | | 2024-12-18T02:47:52 |
| NOx 4.0ppm | 3 | Standard | 4 | 0.3899 | 1 | 1 | 1 | 4.1249 | | 2024-12-18T02:49:02 |
| NOx 1.0ppm | 4 | Standard | 1 | 0.0932 | 1 | 1 | 1 | 0.9895 | | 2024-12-18T02:50:09 |
| NOx 0.4ppm | 5 | Standard | 0.4 | 0.0371 | 1 | 1 | 1 | 0.3971 | | 2024-12-18T02:51:17 |
| NOx 0.2ppm | 6 | Standard | 0.2 | 0.0182 | 1 | 1 | 1 | 0.1975 | | 2024-12-18T02:52:27 |
| NOx 0.1ppm | 7 | Standard | 0.1 | 0.0090 | 1 | 1 | 1 | 0.1008 | | 2024-12-18T02:53:36 |
| NOx 0.0ppm | 8 | Standard | 0 | 0.0001 | 1 | 1 | 1 | 0.0069 | | 2024-12-18T02:54:48 |
| Nitrite 8.0ppm | 9 | Standard | ? | 0.7469 | 1 | 1 | 1 | 7.8966 | | 2024-12-18T02:55:56 |
| Nitrite 4.0ppm | 10 | Standard | ? | 0.3840 | 1 | 1 | 1 | 4.0626 | | 2024-12-18T02:57:05 |
| Nitrite 1.0ppm | 11 | Standard | ? | 0.0942 | 1 | 1 | 1 | 1.0008 | | 2024-12-18T02:58:13 |
| Nitrite 0.4ppm | 12 | Standard | ? | 0.0374 | 1 | 1 | 1 | 0.4004 | | 2024-12-18T02:59:21 |
| Nitrite 0.1ppm | 13 | Standard | ? | 0.0092 | 1 | 1 | 1 | 0.1021 | | 2024-12-18T03:00:30 |
| Nitrite 0.05ppm | 14 | Standard | ? | 0.0046 | 1 | 1 | 1 | 0.0542 | | 2024-12-18T03:01:40 |
| Nitrite 0.0ppm | 15 | Standard | ? | 0.0001 | 1 | 1 | 1 | 0.0065 | | 2024-12-18T03:02:49 |
| CCV NO3 | 16 | QC | 1 | 0.0937 | 1 | 1 | 1 | 0.9954 | | 2024-12-18T03:03:57 |
| CCV NO2 | 17 | QC | ? | 0.0943 | 1 | 1 | 1 | 1.0019 | | 2024-12-18T03:05:02 |
| CCB | 18 | QC | 0 | 0.0000 | 1 | 1 | 1 | 0.0055 | | 2024-12-18T03:06:10 |
| ICV NO3 5.0 | 19 | QC | 5 | 0.4576 | 1 | 1 | 1 | 4.8394 | | 2024-12-18T03:07:19 |
| ICV NO2 5.0 | 20 | QC | ? | 0.4742 | 1 | 1 | 1 | 5.0149 | | 2024-12-18T03:08:28 |
| ICV NO3 0.5 | 21 | QC | 0.5 | 0.0425 | 1 | 1 | 1 | 0.4542 | | 2024-12-18T03:09:37 |
| ICV NO2 0.5 | 22 | QC | ? | 0.0454 | 1 | 1 | 1 | 0.4849 | | 2024-12-18T03:10:44 |
| ICB | 23 | QC | 0 | 0.0000 | 1 | 1 | 1 | 0.0054 | | 2024-12-18T03:11:27 |
| Diluter CHK 8PPM | 24 | Unknown | ? | 0.1520 | 1 | 5 | 1 | 8.0583 | | 2024-12-18T03:13:01 |
| BLANK NO3 | 25 | Unknown | ? | 0.0000 | 1 | 1 | 1 | 0.0051 | | 2024-12-18T03:13:42 |
| LCS NO3 | 26 | Unknown | ? | 0.4582 | 1 | 1 | 1 | 4.8459 | | 2024-12-18T03:15:15 |
| BLANK NO2 | 27 | Unknown | ? | -0.0001 | 1 | 1 | 1 | 0.0044 | | 2024-12-18T03:15:54 |
| LCS NO2 | 28 | Unknown | ? | 0.4761 | 1 | 1 | 1 | 5.0355 | | 2024-12-18T03:17:28 |
| CCV NO3 | 29 | QC | 1 | 0.0923 | 1 | 1 | 1 | 0.9803 | | 2024-12-18T03:18:33 |
| CCV NO2 | 30 | QC | ? | 0.0942 | 1 | 1 | 1 | 1.0005 | | 2024-12-18T03:19:39 |
| CCB | 31 | QC | 0 | 0.0000 | 1 | 1 | 1 | 0.0057 | | 2024-12-18T03:20:48 |
| WG2010471-1 | 32 | Unknown | ? | 0.0000 | 1 | 1 | 1 | 0.0056 | | 2024-12-18T03:21:59 |

| Name | Inj. No. | Type | Known Conc. mg/L | Response | MDF | ADF | Weight | Calc. Conc. mg/L | Flags | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| WG2010471-2 | 33 | Unknown | ? | 0.4735 | 1 | 1 | 1 | 5.0079 | | 2024-12-18T03:23:05 |
| WG2010472-1 | 34 | Unknown | ? | -0.0001 | 1 | 1 | 1 | 0.0040 | | 2024-12-18T03:23:42 |
| WG2010472-2 | 35 | Unknown | ? | 0.4754 | 1 | 1 | 1 | 5.0280 | | 2024-12-18T03:25:16 |
| WG2010474-1 | 36 | Unknown | ? | -0.0001 | 1 | 1 | 1 | 0.0041 | | 2024-12-18T03:25:53 |
| WG2010474-2 | 37 | Unknown | ? | 0.4585 | 1 | 1 | 1 | 4.8493 | | 2024-12-18T03:27:27 |
| WG2010475-1 | 38 | Unknown | ? | -0.0001 | 1 | 1 | 1 | 0.0045 | | 2024-12-18T03:28:07 |
| WG2010475-2 | 39 | Unknown | ? | 0.4585 | 1 | 1 | 1 | 4.8497 | | 2024-12-18T03:29:41 |
| WG2010480-1 | 40 | Unknown | ? | -0.0001 | 1 | 1 | 1 | 0.0045 | | 2024-12-18T03:30:20 |
| WG2010480-2 | 41 | Unknown | ? | 0.4579 | 1 | 1 | 1 | 4.8430 | | 2024-12-18T03:31:54 |
| CCV NO3 | 42 | QC | 1 | 0.0919 | 1 | 1 | 1 | 0.9757 | | 2024-12-18T03:32:59 |
| CCV NO2 | 43 | QC | ? | 0.0939 | 1 | 1 | 1 | 0.9975 | | 2024-12-18T03:34:05 |
| CCB | 44 | QC | 0 | 0.0001 | 1 | 1 | 1 | 0.0066 | | 2024-12-18T03:35:15 |
| WG2010481-1 | 45 | Unknown | ? | 0.0000 | 1 | 1 | 1 | 0.0058 | | 2024-12-18T03:36:26 |
| WG2010481-2 | 46 | Unknown | ? | 0.4562 | 1 | 1 | 1 | 4.8246 | | 2024-12-18T03:37:31 |
| WG2010482-1 | 47 | Unknown | ? | -0.0001 | 1 | 1 | 1 | 0.0041 | | 2024-12-18T03:38:09 |
| WG2010482-2 | 48 | Unknown | ? | 0.4353 | 1 | 1 | 1 | 4.6044 | | 2024-12-18T03:39:43 |
| WG2010486-1 | 49 | Unknown | ? | -0.0001 | 1 | 1 | 1 | 0.0043 | | 2024-12-18T03:40:20 |
| WG2010486-2 | 50 | Unknown | ? | 0.4185 | 1 | 1 | 1 | 4.4269 | | 2024-12-18T03:41:54 |
| WG2010487-1 | 51 | Unknown | ? | -0.0001 | 1 | 1 | 1 | 0.0038 | | 2024-12-18T03:42:29 |
| WG2010487-2 | 52 | Unknown | ? | 0.4364 | 1 | 1 | 1 | 4.6160 | | 2024-12-18T03:44:02 |
| WG2010488-1 | 53 | Unknown | ? | -0.0002 | 1 | 1 | 1 | 0.0036 | | 2024-12-18T03:44:37 |
| WG2010488-2 | 54 | Unknown | ? | 0.4620 | 1 | 1 | 1 | 4.8858 | | 2024-12-18T03:46:11 |
| CCV NO3 | 55 | QC | 1 | 0.0921 | 1 | 1 | 1 | 0.9781 | | 2024-12-18T03:47:15 |
| CCV NO2 | 56 | QC | ? | 0.0940 | 1 | 1 | 1 | 0.9980 | | 2024-12-18T03:48:20 |
| CCB | 57 | QC | 0 | 0.0001 | 1 | 1 | 1 | 0.0068 | | 2024-12-18T03:49:31 |
| L2473991-01 | 58 | Unknown | ? | 0.1088 | 1 | 1 | 1 | 1.1545 | | 2024-12-18T03:50:40 |
| WG2010474-3 | 59 | Unknown | ? | 0.1083 | 1 | 1 | 1 | 1.1498 | | 2024-12-18T03:51:49 |
| WG2010474-4 | 60 | Unknown | ? | 0.4707 | 1 | 1 | 1 | 4.9780 | | 2024-12-18T03:52:56 |
| WG2010471-3 | 61 | Unknown | ? | 0.1081 | 1 | 1 | 1 | 1.1476 | | 2024-12-18T03:54:02 |
| WG2010486-2 | 62 | Unknown | ? | 0.4139 | 1 | 1 | 1 | 4.3781 | | 2024-12-18T03:55:08 |
| WG2010471-4 | 63 | Unknown | ? | 0.4799 | 1 | 1 | 1 | 5.0757 | | 2024-12-18T03:56:14 |
| L2473992-01 | 64 | Unknown | ? | 0.2205 | 1 | 1 | 1 | 2.3352 | | 2024-12-18T03:57:20 |
| WG2010474-5 | 65 | Unknown | ? | 0.2239 | 1 | 1 | 1 | 2.3706 | | 2024-12-18T03:58:25 |

| Name | Inj. No. | Type | Known Conc. mg/L | Response | MDF | ADF | Weight | Calc. Conc. mg/L | Flags | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| WG2010474-6 | 66 | Unknown | ? | 0.5848 | 1 | 1 | 1 | 6.1838 | | 2024-12-18T03:59:31 |
| WG2010471-5 | 67 | Unknown | ? | 0.2227 | 1 | 1 | 1 | 2.3586 | | 2024-12-18T04:00:36 |
| CCV NO3 | 68 | QC | 1 | 0.0925 | 1 | 1 | 1 | 0.9827 | | 2024-12-18T04:01:41 |
| CCV NO2 | 69 | QC | ? | 0.0935 | 1 | 1 | 1 | 0.9928 | | 2024-12-18T04:02:47 |
| CCB | 70 | QC | 0 | 0.0001 | 1 | 1 | 1 | 0.0067 | | 2024-12-18T04:03:55 |
| WG2010486-2 | 71 | Unknown | ? | 0.4604 | 1 | 1 | 1 | 4.8689 | | 2024-12-18T04:05:05 |
| WG2010471-6 | 72 | Unknown | ? | 0.5853 | 1 | 1 | 1 | 6.1889 | | 2024-12-18T04:06:12 |
| L2473992-02 | 73 | Unknown | ? | 0.5686 | 1 | 1 | 1 | 6.0122 | | 2024-12-18T04:07:17 |
| L2473992-03 | 74 | Unknown | ? | 0.2277 | 1 | 1 | 1 | 2.4110 | | 2024-12-18T04:08:22 |
| L2473993-02 | 75 | Unknown | ? | 0.0559 | 1 | 1 | 1 | 0.5962 | | 2024-12-18T04:09:26 |
| L2474012-01 | 76 | Unknown | ? | 0.9226 | 1 | 1 | 1 | 9.7528 | OVR | 2024-12-18T04:10:30 |
| L2474014-01 | 77 | Unknown | ? | 0.7665 | 1 | 1 | 1 | 8.1032 | OVR | 2024-12-18T04:11:34 |
| L2474015-01 | 78 | Unknown | ? | 0.2224 | 1 | 1 | 1 | 2.3550 | | 2024-12-18T04:12:39 |
| L2474017-01 | 79 | Unknown | ? | 1.2656 | 1 | 1 | 1 | 13.3759 | OVR | 2024-12-18T04:13:46 |
| L2474018-01 | 80 | Unknown | ? | 0.2738 | 1 | 1 | 1 | 2.8976 | | 2024-12-18T04:14:53 |
| CCV NO3 | 81 | QC | 1 | 0.0921 | 1 | 1 | 1 | 0.9788 | | 2024-12-18T04:15:59 |
| CCV NO2 | 82 | QC | ? | 0.0936 | 1 | 1 | 1 | 0.9947 | | 2024-12-18T04:17:04 |
| CCB | 83 | QC | 0 | 0.0002 | 1 | 1 | 1 | 0.0071 | | 2024-12-18T04:18:14 |
| L2474051-01 | 84 | Unknown | ? | 0.6887 | 1 | 1 | 1 | 7.2818 | | 2024-12-18T04:19:24 |
| L2474067-02 | 85 | Unknown | ? | 0.0016 | 1 | 1 | 1 | 0.0227 | | 2024-12-18T04:20:30 |
| L2474146-01 | 86 | Unknown | ? | 0.0161 | 1 | 1 | 1 | 0.1753 | | 2024-12-18T04:21:36 |
| L2474215-01 | 87 | Unknown | ? | 0.0043 | 1 | 1 | 1 | 0.0504 | | 2024-12-18T04:22:42 |
| L2474222-01 | 88 | Unknown | ? | 1.3689 | 1 | 1 | 1 | 14.4670 | OVR | 2024-12-18T04:23:55 |
| L2474223-01 | 89 | Unknown | ? | 0.9104 | 1 | 1 | 1 | 9.6236 | OVR | 2024-12-18T04:24:53 |
| L2474223-02 | 90 | Unknown | ? | -0.0003 | 1 | 1 | 1 | 0.0018 | | 2024-12-18T04:25:29 |
| L2474224-02 | 91 | Unknown | ? | 1.3703 | 1 | 1 | 1 | 14.4827 | OVR | 2024-12-18T04:27:04 |
| L2474225-01 | 92 | Unknown | ? | 0.1782 | 1 | 1 | 1 | 1.8882 | | 2024-12-18T04:28:07 |
| L2474225-02 | 93 | Unknown | ? | 0.4588 | 1 | 1 | 1 | 4.8520 | | 2024-12-18T04:29:12 |
| CCV NO3 | 94 | QC | 1 | 0.0927 | 1 | 1 | 1 | 0.9847 | | 2024-12-18T04:30:16 |
| CCV NO2 | 95 | QC | ? | 0.0938 | 1 | 1 | 1 | 0.9968 | | 2024-12-18T04:31:22 |
| CCB | 96 | QC | 0 | 0.0002 | 1 | 1 | 1 | 0.0074 | | 2024-12-18T04:32:30 |
| L2473872-01 | 97 | Unknown | ? | 0.1223 | 1 | 1 | 1 | 1.2976 | | 2024-12-18T04:33:41 |
| WG2010480-3 | 98 | Unknown | ? | 0.1215 | 1 | 1 | 1 | 1.2890 | | 2024-12-18T04:34:46 |

| Name | Inj. No. | Type | Known Conc. mg/L | Response | MDF | ADF | Weight | Calc. Conc. mg/L | Flags | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| WG2010480-4 | 99 | Unknown | ? | 0.4836 | 1 | 1 | 1 | 5.1145 | | 2024-12-18T04:35:52 |
| L2473839-01 | 100 | Unknown | ? | 0.0110 | 1 | 1 | 1 | 0.1219 | | 2024-12-18T04:36:59 |
| L2473927-01 | 101 | Unknown | ? | 0.2695 | 1 | 1 | 1 | 2.8524 | | 2024-12-18T04:38:05 |
| L2473927-02 | 102 | Unknown | ? | 0.0863 | 1 | 1 | 1 | 0.9172 | | 2024-12-18T04:39:11 |
| L2474183-14 | 103 | Unknown | ? | 0.0623 | 1 | 1 | 1 | 0.6632 | | 2024-12-18T04:40:17 |
| WG2010475-5 | 104 | Unknown | ? | 0.0615 | 1 | 1 | 1 | 0.6556 | | 2024-12-18T04:41:23 |
| WG2010475-6 | 105 | Unknown | ? | 0.4309 | 1 | 1 | 1 | 4.5574 | | 2024-12-18T04:42:29 |
| L2474228-02 | 106 | Unknown | ? | 0.2409 | 1 | 1 | 1 | 2.5505 | | 2024-12-18T04:43:34 |
| CCV NO3 | 107 | QC | 1 | 0.0930 | 1 | 1 | 1 | 0.9879 | | 2024-12-18T04:44:39 |
| CCV NO2 | 108 | QC | ? | 0.0937 | 1 | 1 | 1 | 0.9958 | | 2024-12-18T04:45:44 |
| CCB | 109 | QC | 0 | 0.0001 | 1 | 1 | 1 | 0.0067 | | 2024-12-18T04:46:55 |
| WG2010475-3 | 110 | Unknown | ? | 0.2410 | 1 | 1 | 1 | 2.5511 | | 2024-12-18T04:48:04 |
| WG2010475-4 | 111 | Unknown | ? | 0.5915 | 1 | 1 | 1 | 6.2546 | | 2024-12-18T04:49:10 |
| WG2010472-3 | 112 | Unknown | ? | 0.2399 | 1 | 1 | 1 | 2.5395 | | 2024-12-18T04:50:15 |
| WG2010472-4 | 113 | Unknown | ? | 0.5996 | 1 | 1 | 1 | 6.3396 | | 2024-12-18T04:51:20 |
| L2474229-02 | 114 | Unknown | ? | 0.8753 | 1 | 1 | 1 | 9.2525 | OVR | 2024-12-18T04:52:25 |
| L2474270-01 | 115 | Unknown | ? | 0.0497 | 1 | 1 | 1 | 0.5305 | | 2024-12-18T04:53:29 |
| L2474270-02 | 116 | Unknown | ? | 0.0490 | 1 | 1 | 1 | 0.5229 | | 2024-12-18T04:54:34 |
| L2474278-01 | 117 | Unknown | ? | 0.2201 | 1 | 1 | 1 | 2.3303 | | 2024-12-18T04:55:39 |
| L2474278-02 | 118 | Unknown | ? | 0.0032 | 1 | 1 | 1 | 0.0392 | | 2024-12-18T04:56:47 |
| L2474278-03 | 119 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0158 | | 2024-12-18T04:57:53 |
| CCV NO3 | 120 | QC | 1 | 0.0929 | 1 | 1 | 1 | 0.9871 | | 2024-12-18T04:58:59 |
| CCV NO2 | 121 | QC | ? | 0.0933 | 1 | 1 | 1 | 0.9911 | | 2024-12-18T05:00:04 |
| CCB | 122 | QC | 0 | 0.0001 | 1 | 1 | 1 | 0.0066 | | 2024-12-18T05:01:14 |
| L2474035-01 | 123 | Unknown | ? | 0.3903 | 1 | 1 | 1 | 4.1283 | | 2024-12-18T05:02:25 |
| L2474183-01 | 124 | Unknown | ? | 0.0872 | 1 | 1 | 1 | 0.9265 | | 2024-12-18T05:03:32 |
| WG2010481-3 | 125 | Unknown | ? | 0.0875 | 1 | 1 | 1 | 0.9301 | | 2024-12-18T05:04:38 |
| WG2010481-4 | 126 | Unknown | ? | 0.4611 | 1 | 1 | 1 | 4.8771 | | 2024-12-18T05:05:44 |
| L2474183-02 | 127 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0154 | | 2024-12-18T05:06:50 |
| L2474183-03 | 128 | Unknown | ? | 0.0011 | 1 | 1 | 1 | 0.0171 | | 2024-12-18T05:07:55 |
| L2474183-04 | 129 | Unknown | ? | 0.0074 | 1 | 1 | 1 | 0.0832 | | 2024-12-18T05:09:00 |
| L2474183-05 | 130 | Unknown | ? | 0.0014 | 1 | 1 | 1 | 0.0197 | | 2024-12-18T05:10:05 |
| L2474183-06 | 131 | Unknown | ? | 0.3298 | 1 | 1 | 1 | 3.4901 | | 2024-12-18T05:11:10 |

| Name | Inj. No. | Type | Known Conc. mg/L | Response | MDF | ADF | Weight | Calc. Conc. mg/L | Flags | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| L2474183-07 | 132 | Unknown | ? | 0.0225 | 1 | 1 | 1 | 0.2429 | | 2024-12-18T05:12:15 |
| CCV NO3 | 133 | QC | 1 | 0.0931 | 1 | 1 | 1 | 0.9886 | | 2024-12-18T05:13:19 |
| CCV NO2 | 134 | QC | ? | 0.0930 | 1 | 1 | 1 | 0.9883 | | 2024-12-18T05:14:25 |
| CCB | 135 | QC | 0 | 0.0001 | 1 | 1 | 1 | 0.0068 | | 2024-12-18T05:15:34 |
| L2474183-08 | 136 | Unknown | ? | 0.1145 | 1 | 1 | 1 | 1.2149 | | 2024-12-18T05:16:45 |
| L2474183-09 | 137 | Unknown | ? | 0.0052 | 1 | 1 | 1 | 0.0607 | | 2024-12-18T05:17:51 |
| L2474183-10 | 138 | Unknown | ? | 0.0026 | 1 | 1 | 1 | 0.0324 | | 2024-12-18T05:18:57 |
| L2474183-11 | 139 | Unknown | ? | 0.0205 | 1 | 1 | 1 | 0.2219 | | 2024-12-18T05:20:04 |
| L2474183-12 | 140 | Unknown | ? | 0.0159 | 1 | 1 | 1 | 0.1733 | | 2024-12-18T05:21:10 |
| L2474183-13 | 141 | Unknown | ? | 0.0023 | 1 | 1 | 1 | 0.0300 | | 2024-12-18T05:22:17 |
| L2474015-01 | 142 | Unknown | ? | 0.2224 | 1 | 1 | 1 | 2.3554 | | 2024-12-18T05:23:24 |
| L2474018-01 | 143 | Unknown | ? | 0.2749 | 1 | 1 | 1 | 2.9098 | | 2024-12-18T05:24:30 |
| L2474223-02 | 144 | Unknown | ? | 0.0002 | 1 | 1 | 1 | 0.0076 | | 2024-12-18T05:25:36 |
| L2474225-01 | 145 | Unknown | ? | 0.1846 | 1 | 1 | 1 | 1.9557 | | 2024-12-18T05:26:41 |
| CCV NO3 | 146 | QC | 1 | 0.0924 | 1 | 1 | 1 | 0.9816 | | 2024-12-18T05:27:45 |
| CCV NO2 | 147 | QC | ? | 0.0923 | 1 | 1 | 1 | 0.9808 | | 2024-12-18T05:28:50 |
| CCB | 148 | QC | 0 | 0.0002 | 1 | 1 | 1 | 0.0070 | | 2024-12-18T05:30:00 |
| L2474270-01 | 149 | Unknown | ? | 0.0521 | 1 | 1 | 1 | 0.5553 | | 2024-12-18T05:31:10 |
| CCV NO3 | 150 | QC | 1 | 0.0921 | 1 | 1 | 1 | 0.9782 | | 2024-12-18T05:32:16 |
| CCV NO2 | 151 | QC | ? | 0.0924 | 1 | 1 | 1 | 0.9816 | | 2024-12-18T05:33:21 |
| CCB | 152 | QC | 0 | 0.0001 | 1 | 1 | 1 | 0.0062 | | 2024-12-18T05:34:31 |
| _spacer_ | 153 | Unknown | ? | 0.0000 | 1 | 1 | 1 | 0.0055 | | 2024-12-18T05:53:10 |
| _spacer_ | 154 | Unknown | ? | 0.0007 | 1 | 1 | 1 | 0.0130 | | 2024-12-18T05:54:09 |
| L2474012-01 | 155 | Unknown | ? | 0.0981 | 1 | 10 | 1 | 10.4186 | | 2024-12-18T05:55:17 |
| L2474014-01 | 156 | Unknown | ? | 0.0785 | 1 | 10 | 1 | 8.3445 | | 2024-12-18T05:56:25 |
| L2474017-01 | 157 | Unknown | ? | 0.1583 | 1 | 10 | 1 | 16.7737 | | 2024-12-18T05:57:34 |
| L2474222-01 | 158 | Unknown | ? | 0.3572 | 1 | 10 | 1 | 37.7945 | | 2024-12-18T05:58:42 |
| L2474223-01 | 159 | Unknown | ? | 0.0976 | 1 | 10 | 1 | 10.3667 | | 2024-12-18T05:59:50 |
| L2474224-02 | 160 | Unknown | ? | 0.2312 | 1 | 10 | 1 | 24.4760 | | 2024-12-18T06:00:58 |
| L2474229-02 | 161 | Unknown | ? | 0.0923 | 1 | 10 | 1 | 9.8059 | | 2024-12-18T06:02:07 |
| L2474329-01 | 162 | Unknown | ? | 0.3306 | 1 | 1 | 1 | 3.4977 | | 2024-12-18T06:03:14 |
| CCV NO3 | 163 | QC | 1 | 0.0924 | 1 | 1 | 1 | 0.9815 | | 2024-12-18T06:04:19 |
| CCV NO2 | 164 | QC | ? | 0.0932 | 1 | 1 | 1 | 0.9900 | | 2024-12-18T06:05:25 |

| Name | Inj. No. | Type | Known Conc. mg/L | Response | MDF | ADF | Weight | Calc. Conc. mg/L | Flags | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| CCB | 165 | QC | 0 | 0.0002 | 1 | 1 | 1 | 0.0070 | | 2024-12-18T06:06:35 |
| WG2010532-3; WG2010533-3 | 166 | Unknown | ? | 0.3304 | 1 | 1 | 1 | 3.4956 | | 2024-12-18T06:07:45 |
| WG2010532-4; WG2010533-4 | 167 | Unknown | ? | 0.6723 | 1 | 1 | 1 | 7.1081 | | 2024-12-18T06:08:52 |
| WG2010531-3 | 168 | Unknown | ? | 0.3303 | 1 | 1 | 1 | 3.4954 | | 2024-12-18T06:09:58 |
| WG2010531-4 | 169 | Unknown | ? | 0.6824 | 1 | 1 | 1 | 7.2150 | | 2024-12-18T06:11:04 |
| L2474329-02 | 170 | Unknown | ? | 0.2035 | 1 | 1 | 1 | 2.1552 | | 2024-12-18T06:12:08 |
| L2474329-03 | 171 | Unknown | ? | 0.2269 | 1 | 1 | 1 | 2.4024 | | 2024-12-18T06:13:14 |
| L2474329-04 | 172 | Unknown | ? | 0.4142 | 1 | 1 | 1 | 4.3817 | | 2024-12-18T06:14:20 |
| L2474329-05 | 173 | Unknown | ? | -0.0001 | 1 | 1 | 1 | 0.0043 | | 2024-12-18T06:14:56 |
| L2474316-01 | 174 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0156 | | 2024-12-18T06:16:30 |
| L2474316-02 | 175 | Unknown | ? | 0.0008 | 1 | 1 | 1 | 0.0140 | | 2024-12-18T06:17:37 |
| CCV NO3 | 176 | QC | 1 | 0.0917 | 1 | 1 | 1 | 0.9742 | | 2024-12-18T06:18:40 |
| CCV NO2 | 177 | QC | ? | 0.0921 | 1 | 1 | 1 | 0.9786 | | 2024-12-18T06:19:46 |
| CCB | 178 | QC | 0 | 0.0002 | 1 | 1 | 1 | 0.0071 | | 2024-12-18T06:20:57 |
| L2474316-03 | 179 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0164 | | 2024-12-18T06:22:08 |
| L2474316-04 | 180 | Unknown | ? | 0.0012 | 1 | 1 | 1 | 0.0175 | | 2024-12-18T06:23:15 |
| L2474316-05 | 181 | Unknown | ? | 0.0019 | 1 | 1 | 1 | 0.0254 | | 2024-12-18T06:24:22 |
| L2474320-01 | 182 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0162 | | 2024-12-18T06:25:28 |
| L2474320-02 | 183 | Unknown | ? | 0.0012 | 1 | 1 | 1 | 0.0182 | | 2024-12-18T06:26:34 |
| CCV NO3 | 184 | QC | 1 | 0.0914 | 1 | 1 | 1 | 0.9707 | | 2024-12-18T06:27:40 |
| CCV NO2 | 185 | QC | ? | 0.0922 | 1 | 1 | 1 | 0.9790 | | 2024-12-18T06:28:45 |
| CCB | 186 | QC | 0 | 0.0001 | 1 | 1 | 1 | 0.0065 | | 2024-12-18T06:29:54 |

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 | -0.0037 | | 2024-12-18T02:46:26 |
| NOx 8.0ppm | 2 | Standard | ? | 0.0001 | 1 | 1 | 1 | -0.0034 | | 2024-12-18T02:47:56 |
| NOx 4.0ppm | 3 | Standard | ? | 0.0001 | 1 | 1 | 1 | -0.0035 | | 2024-12-18T02:48:49 |
| NOx 1.0ppm | 4 | Standard | ? | 0.0000 | 1 | 1 | 1 | -0.0040 | | 2024-12-18T02:50:29 |
| NOx 0.4ppm | 5 | Standard | ? | 0.0001 | 1 | 1 | 1 | -0.0035 | | 2024-12-18T02:51:03 |
| NOx 0.2ppm | 6 | Standard | ? | 0.0001 | 1 | 1 | 1 | -0.0035 | | 2024-12-18T02:52:19 |
| NOx 0.1ppm | 7 | Standard | ? | 0.0001 | 1 | 1 | 1 | -0.0035 | | 2024-12-18T02:53:33 |

| Name | Inj. No. | Type | Known Conc. mg/L | Response | MDF | ADF | Weight | Calc. Conc. mg/L | Flags | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| NOx 0.0ppm | 8 | Standard | ? | 0.0001 | 1 | 1 | 1 | -0.0035 | | 2024-12-18T02:54:34 |
| Nitrite 8.0ppm | 9 | Standard | 8 | 0.9996 | 1 | 1 | 1 | 7.4867 | | 2024-12-18T02:55:43 |
| Nitrite 4.0ppm | 10 | Standard | 4 | 0.5404 | 1 | 1 | 1 | 4.0456 | | 2024-12-18T02:56:52 |
| Nitrite 1.0ppm | 11 | Standard | 1 | 0.1377 | 1 | 1 | 1 | 1.0279 | | 2024-12-18T02:57:58 |
| Nitrite 0.4ppm | 12 | Standard | 0.4 | 0.0562 | 1 | 1 | 1 | 0.4167 | | 2024-12-18T02:59:08 |
| Nitrite 0.1ppm | 13 | Standard | 0.1 | 0.0140 | 1 | 1 | 1 | 0.1008 | | 2024-12-18T03:00:17 |
| Nitrite 0.05ppm | 14 | Standard | 0.05 | 0.0072 | 1 | 1 | 1 | 0.0494 | | 2024-12-18T03:01:27 |
| Nitrite 0.0ppm | 15 | Standard | 0 | 0.0002 | 1 | 1 | 1 | -0.0030 | | 2024-12-18T03:02:36 |
| CCV NO3 | 16 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0039 | | 2024-12-18T03:03:45 |
| CCV NO2 | 17 | QC | 1 | 0.1377 | 1 | 1 | 1 | 1.0279 | | 2024-12-18T03:04:48 |
| CCB | 18 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0026 | | 2024-12-18T03:05:59 |
| ICV NO3 5.0 | 19 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0037 | | 2024-12-18T03:07:16 |
| ICV NO2 5.0 | 20 | QC | 5 | 0.6686 | 1 | 1 | 1 | 5.0062 | | 2024-12-18T03:08:15 |
| ICV NO3 0.5 | 21 | QC | ? | 0.0003 | 1 | 1 | 1 | -0.0025 | | 2024-12-18T03:09:24 |
| ICV NO2 0.5 | 22 | QC | 0.5 | 0.0685 | 1 | 1 | 1 | 0.5093 | | 2024-12-18T03:10:31 |
| ICB | 23 | QC | 0 | 0.0001 | 1 | 1 | 1 | -0.0036 | | 2024-12-18T03:11:39 |
| Diluter CHK 8PPM | 24 | Unknown | ? | 0.0002 | 1 | 5 | 1 | -0.0152 | | 2024-12-18T03:12:51 |
| BLANK NO3 | 25 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0038 | | 2024-12-18T03:14:06 |
| LCS NO3 | 26 | Unknown | ? | 0.0000 | 1 | 1 | 1 | -0.0040 | | 2024-12-18T03:15:39 |
| BLANK NO2 | 27 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0037 | | 2024-12-18T03:16:19 |
| LCS NO2 | 28 | Unknown | ? | 0.6642 | 1 | 1 | 1 | 4.9735 | | 2024-12-18T03:17:14 |
| CCV NO3 | 29 | QC | ? | 0.0002 | 1 | 1 | 1 | -0.0026 | | 2024-12-18T03:18:18 |
| CCV NO2 | 30 | QC | 1 | 0.1372 | 1 | 1 | 1 | 1.0235 | | 2024-12-18T03:19:24 |
| CCB | 31 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0031 | | 2024-12-18T03:20:35 |
| WG2010471-1 | 32 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0038 | | 2024-12-18T03:21:53 |
| WG2010471-2 | 33 | Unknown | ? | 0.6647 | 1 | 1 | 1 | 4.9768 | | 2024-12-18T03:22:51 |
| WG2010472-1 | 34 | Unknown | ? | 0.0002 | 1 | 1 | 1 | -0.0028 | | 2024-12-18T03:23:55 |
| WG2010472-2 | 35 | Unknown | ? | 0.6649 | 1 | 1 | 1 | 4.9788 | | 2024-12-18T03:25:01 |
| WG2010474-1 | 36 | Unknown | ? | 0.0003 | 1 | 1 | 1 | -0.0024 | | 2024-12-18T03:26:05 |
| WG2010474-2 | 37 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0038 | | 2024-12-18T03:27:13 |
| WG2010475-1 | 38 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0039 | | 2024-12-18T03:28:22 |
| WG2010475-2 | 39 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0037 | | 2024-12-18T03:29:42 |
| WG2010480-1 | 40 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0037 | | 2024-12-18T03:30:40 |

| Name | Inj. No. | Type | Known Conc. mg/L | Response | MDF | ADF | Weight | Calc. Conc. mg/L | Flags | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| WG2010480-2 | 41 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0037 | | 2024-12-18T03:31:42 |
| CCV NO3 | 42 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0037 | | 2024-12-18T03:32:45 |
| CCV NO2 | 43 | QC | 1 | 0.1374 | 1 | 1 | 1 | 1.0255 | | 2024-12-18T03:33:50 |
| CCB | 44 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0027 | | 2024-12-18T03:35:01 |
| WG2010481-1 | 45 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0037 | | 2024-12-18T03:36:06 |
| WG2010481-2 | 46 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0037 | | 2024-12-18T03:37:22 |
| WG2010482-1 | 47 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0039 | | 2024-12-18T03:38:47 |
| WG2010482-2 | 48 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0036 | | 2024-12-18T03:39:26 |
| WG2010486-1 | 49 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0035 | | 2024-12-18T03:41:00 |
| WG2010486-2 | 50 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0038 | | 2024-12-18T03:41:41 |
| WG2010487-1 | 51 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0035 | | 2024-12-18T03:42:47 |
| WG2010487-2 | 52 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0037 | | 2024-12-18T03:43:48 |
| WG2010488-1 | 53 | Unknown | ? | 0.0000 | 1 | 1 | 1 | -0.0041 | | 2024-12-18T03:45:21 |
| WG2010488-2 | 54 | Unknown | ? | 0.0000 | 1 | 1 | 1 | -0.0043 | | 2024-12-18T03:46:03 |
| CCV NO3 | 55 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0039 | | 2024-12-18T03:47:00 |
| CCV NO2 | 56 | QC | 1 | 0.1370 | 1 | 1 | 1 | 1.0226 | | 2024-12-18T03:48:06 |
| CCB | 57 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0029 | | 2024-12-18T03:49:19 |
| L2473991-01 | 58 | Unknown | ? | 0.0192 | 1 | 1 | 1 | 0.1393 | | 2024-12-18T03:50:26 |
| WG2010474-3 | 59 | Unknown | ? | 0.0190 | 1 | 1 | 1 | 0.1384 | | 2024-12-18T03:51:35 |
| WG2010474-4 | 60 | Unknown | ? | 0.0190 | 1 | 1 | 1 | 0.1384 | | 2024-12-18T03:52:41 |
| WG2010471-3 | 61 | Unknown | ? | 0.0192 | 1 | 1 | 1 | 0.1395 | | 2024-12-18T03:53:48 |
| WG2010486-2 | 62 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0038 | | 2024-12-18T03:54:55 |
| WG2010471-4 | 63 | Unknown | ? | 0.5451 | 1 | 1 | 1 | 4.0806 | | 2024-12-18T03:55:59 |
| L2473992-01 | 64 | Unknown | ? | 0.0021 | 1 | 1 | 1 | 0.0113 | | 2024-12-18T03:57:04 |
| WG2010474-5 | 65 | Unknown | ? | 0.0012 | 1 | 1 | 1 | 0.0046 | | 2024-12-18T03:58:10 |
| WG2010474-6 | 66 | Unknown | ? | 0.0047 | 1 | 1 | 1 | 0.0311 | | 2024-12-18T03:59:16 |
| WG2010471-5 | 67 | Unknown | ? | 0.0012 | 1 | 1 | 1 | 0.0044 | | 2024-12-18T04:00:22 |
| CCV NO3 | 68 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0038 | | 2024-12-18T04:01:26 |
| CCV NO2 | 69 | QC | 1 | 0.1364 | 1 | 1 | 1 | 1.0177 | | 2024-12-18T04:02:32 |
| CCB | 70 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0027 | | 2024-12-18T04:03:44 |
| WG2010486-2 | 71 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0039 | | 2024-12-18T04:05:02 |
| WG2010471-6 | 72 | Unknown | ? | 0.5243 | 1 | 1 | 1 | 3.9249 | | 2024-12-18T04:05:57 |
| L2473992-02 | 73 | Unknown | ? | 0.0028 | 1 | 1 | 1 | 0.0169 | | 2024-12-18T04:07:02 |

| Name | Inj. No. | Type | Known Conc. mg/L | Response | MDF | ADF | Weight | Calc. Conc. mg/L | Flags | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| L2473992-03 | 74 | Unknown | ? | 0.0016 | 1 | 1 | 1 | 0.0079 | | 2024-12-18T04:08:06 |
| L2473993-02 | 75 | Unknown | ? | 0.0344 | 1 | 1 | 1 | 0.2536 | | 2024-12-18T04:09:11 |
| L2474012-01 | 76 | Unknown | ? | 0.5154 | 1 | 1 | 1 | 3.8584 | | 2024-12-18T04:10:15 |
| L2474014-01 | 77 | Unknown | ? | 0.2895 | 1 | 1 | 1 | 2.1653 | | 2024-12-18T04:11:18 |
| L2474015-01 | 78 | Unknown | ? | 0.1052 | 1 | 1 | 1 | 0.7844 | | 2024-12-18T04:12:25 |
| L2474017-01 | 79 | Unknown | ? | 0.3042 | 1 | 1 | 1 | 2.2755 | | 2024-12-18T04:13:32 |
| L2474018-01 | 80 | Unknown | ? | 0.0804 | 1 | 1 | 1 | 0.5985 | | 2024-12-18T04:14:39 |
| CCV NO3 | 81 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0035 | | 2024-12-18T04:15:47 |
| CCV NO2 | 82 | QC | 1 | 0.1364 | 1 | 1 | 1 | 1.0179 | | 2024-12-18T04:16:50 |
| CCB | 83 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0026 | | 2024-12-18T04:17:59 |
| L2474051-01 | 84 | Unknown | ? | 0.0260 | 1 | 1 | 1 | 0.1902 | | 2024-12-18T04:19:09 |
| L2474067-02 | 85 | Unknown | ? | 0.0030 | 1 | 1 | 1 | 0.0179 | | 2024-12-18T04:20:16 |
| L2474146-01 | 86 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0029 | | 2024-12-18T04:21:22 |
| L2474215-01 | 87 | Unknown | ? | 0.0045 | 1 | 1 | 1 | 0.0297 | | 2024-12-18T04:22:27 |
| L2474222-01 | 88 | Unknown | ? | 0.0156 | 1 | 1 | 1 | 0.1125 | | 2024-12-18T04:23:33 |
| L2474223-01 | 89 | Unknown | ? | 0.0360 | 1 | 1 | 1 | 0.2656 | | 2024-12-18T04:24:38 |
| L2474223-02 | 90 | Unknown | ? | 0.0009 | 1 | 1 | 1 | 0.0023 | | 2024-12-18T04:25:43 |
| L2474224-02 | 91 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0034 | | 2024-12-18T04:26:48 |
| L2474225-01 | 92 | Unknown | ? | 0.0192 | 1 | 1 | 1 | 0.1395 | | 2024-12-18T04:27:52 |
| L2474225-02 | 93 | Unknown | ? | 0.0023 | 1 | 1 | 1 | 0.0131 | | 2024-12-18T04:28:56 |
| CCV NO3 | 94 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0037 | | 2024-12-18T04:30:01 |
| CCV NO2 | 95 | QC | 1 | 0.1369 | 1 | 1 | 1 | 1.0216 | | 2024-12-18T04:31:07 |
| CCB | 96 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0027 | | 2024-12-18T04:32:18 |
| L2473872-01 | 97 | Unknown | ? | 0.0012 | 1 | 1 | 1 | 0.0047 | | 2024-12-18T04:33:25 |
| WG2010480-3 | 98 | Unknown | ? | 0.0004 | 1 | 1 | 1 | -0.0017 | | 2024-12-18T04:34:30 |
| WG2010480-4 | 99 | Unknown | ? | 0.0030 | 1 | 1 | 1 | 0.0182 | | 2024-12-18T04:35:37 |
| L2473839-01 | 100 | Unknown | ? | 0.0017 | 1 | 1 | 1 | 0.0081 | | 2024-12-18T04:36:43 |
| L2473927-01 | 101 | Unknown | ? | 0.0007 | 1 | 1 | 1 | 0.0010 | | 2024-12-18T04:37:51 |
| L2473927-02 | 102 | Unknown | ? | 0.0008 | 1 | 1 | 1 | 0.0017 | | 2024-12-18T04:38:56 |
| L2474183-14 | 103 | Unknown | ? | 0.0011 | 1 | 1 | 1 | 0.0036 | | 2024-12-18T04:40:02 |
| WG2010475-5 | 104 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0035 | | 2024-12-18T04:41:06 |
| WG2010475-6 | 105 | Unknown | ? | 0.0003 | 1 | 1 | 1 | -0.0018 | | 2024-12-18T04:42:13 |
| L2474228-02 | 106 | Unknown | ? | 0.0014 | 1 | 1 | 1 | 0.0059 | | 2024-12-18T04:43:20 |

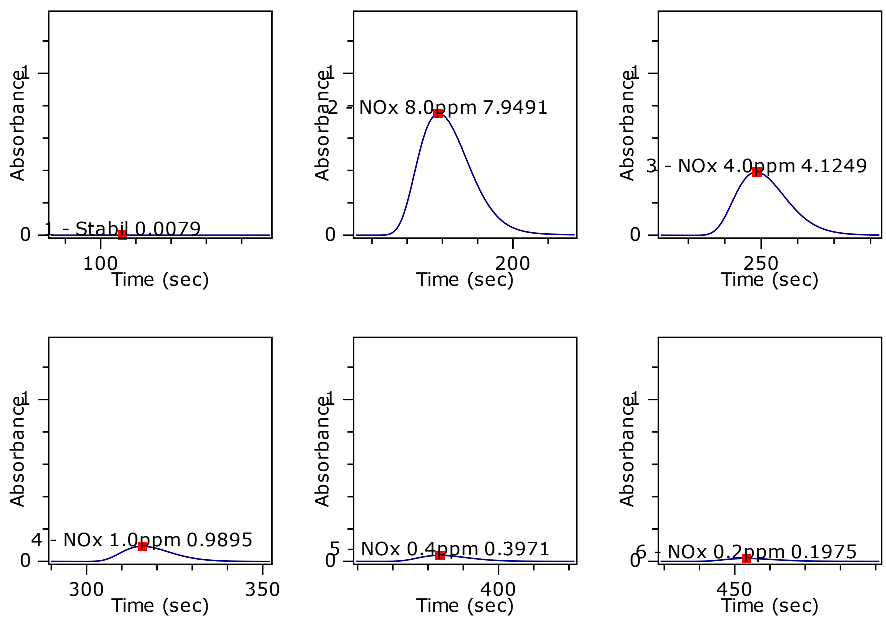
| Name | Inj. No. | Type | Known Conc. mg/L | Response | MDF | ADF | Weight | Calc. Conc. mg/L | Flags | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| CCV NO3 | 107 | QC | ? | 0.0000 | 1 | 1 | 1 | -0.0040 | | 2024-12-18T04:44:22 |
| CCV NO2 | 108 | QC | 1 | 0.1367 | 1 | 1 | 1 | 1.0203 | | 2024-12-18T04:45:30 |
| CCB | 109 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0031 | | 2024-12-18T04:46:41 |
| WG2010475-3 | 110 | Unknown | ? | 0.0005 | 1 | 1 | 1 | -0.0008 | | 2024-12-18T04:47:48 |
| WG2010475-4 | 111 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0034 | | 2024-12-18T04:48:55 |
| WG2010472-3 | 112 | Unknown | ? | 0.0015 | 1 | 1 | 1 | 0.0070 | | 2024-12-18T04:50:00 |
| WG2010472-4 | 113 | Unknown | ? | 0.5244 | 1 | 1 | 1 | 3.9255 | | 2024-12-18T04:51:05 |
| L2474229-02 | 114 | Unknown | ? | 0.0493 | 1 | 1 | 1 | 0.3652 | | 2024-12-18T04:52:09 |
| L2474270-01 | 115 | Unknown | ? | 0.0008 | 1 | 1 | 1 | 0.0019 | | 2024-12-18T04:53:13 |
| L2474270-02 | 116 | Unknown | ? | 0.0011 | 1 | 1 | 1 | 0.0038 | | 2024-12-18T04:54:19 |
| L2474278-01 | 117 | Unknown | ? | 0.0008 | 1 | 1 | 1 | 0.0014 | | 2024-12-18T04:55:24 |
| L2474278-02 | 118 | Unknown | ? | 0.0020 | 1 | 1 | 1 | 0.0103 | | 2024-12-18T04:56:32 |
| L2474278-03 | 119 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0029 | | 2024-12-18T04:57:39 |
| CCV NO3 | 120 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0039 | | 2024-12-18T04:58:45 |
| CCV NO2 | 121 | QC | 1 | 0.1358 | 1 | 1 | 1 | 1.0137 | | 2024-12-18T04:59:49 |
| CCB | 122 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0030 | | 2024-12-18T05:01:01 |
| L2474035-01 | 123 | Unknown | ? | 0.1822 | 1 | 1 | 1 | 1.3613 | | 2024-12-18T05:02:10 |
| L2474183-01 | 124 | Unknown | ? | 0.0033 | 1 | 1 | 1 | 0.0200 | | 2024-12-18T05:03:18 |
| WG2010481-3 | 125 | Unknown | ? | 0.0033 | 1 | 1 | 1 | 0.0201 | | 2024-12-18T05:04:23 |
| WG2010481-4 | 126 | Unknown | ? | 0.0060 | 1 | 1 | 1 | 0.0404 | | 2024-12-18T05:05:29 |
| L2474183-02 | 127 | Unknown | ? | 0.0019 | 1 | 1 | 1 | 0.0096 | | 2024-12-18T05:06:35 |
| L2474183-03 | 128 | Unknown | ? | 0.0009 | 1 | 1 | 1 | 0.0021 | | 2024-12-18T05:07:39 |
| L2474183-04 | 129 | Unknown | ? | 0.0012 | 1 | 1 | 1 | 0.0046 | | 2024-12-18T05:08:44 |
| L2474183-05 | 130 | Unknown | ? | 0.0015 | 1 | 1 | 1 | 0.0065 | | 2024-12-18T05:09:50 |
| L2474183-06 | 131 | Unknown | ? | 0.0008 | 1 | 1 | 1 | 0.0018 | | 2024-12-18T05:10:54 |
| L2474183-07 | 132 | Unknown | ? | 0.0009 | 1 | 1 | 1 | 0.0021 | | 2024-12-18T05:11:59 |
| CCV NO3 | 133 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0039 | | 2024-12-18T05:13:06 |
| CCV NO2 | 134 | QC | 1 | 0.1372 | 1 | 1 | 1 | 1.0239 | | 2024-12-18T05:14:10 |
| CCB | 135 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0025 | | 2024-12-18T05:15:25 |
| L2474183-08 | 136 | Unknown | ? | 0.0008 | 1 | 1 | 1 | 0.0013 | | 2024-12-18T05:16:27 |
| L2474183-09 | 137 | Unknown | ? | 0.0043 | 1 | 1 | 1 | 0.0278 | | 2024-12-18T05:17:35 |
| L2474183-10 | 138 | Unknown | ? | 0.0008 | 1 | 1 | 1 | 0.0020 | | 2024-12-18T05:18:42 |
| L2474183-11 | 139 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0029 | | 2024-12-18T05:19:50 |

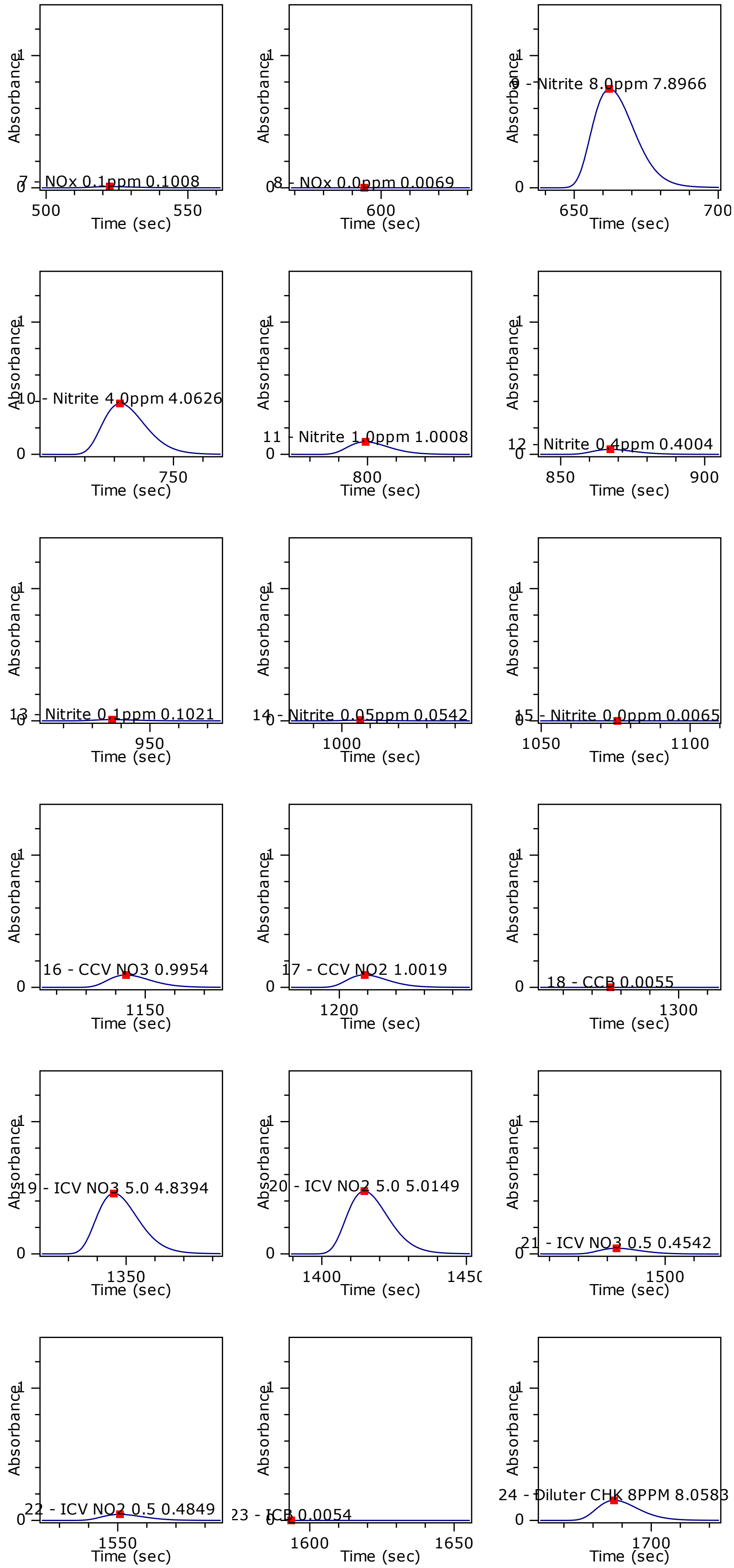
| Name | Inj. No. | Type | Known Conc. mg/L | Response | MDF | ADF | Weight | Calc. Conc. mg/L | Flags | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| L2474183-12 | 140 | Unknown | ? | 0.0012 | 1 | 1 | 1 | 0.0044 | | 2024-12-18T05:20:56 |
| L2474183-13 | 141 | Unknown | ? | 0.0008 | 1 | 1 | 1 | 0.0020 | | 2024-12-18T05:22:03 |
| L2474015-01 | 142 | Unknown | ? | 0.1058 | 1 | 1 | 1 | 0.7884 | | 2024-12-18T05:23:09 |
| L2474018-01 | 143 | Unknown | ? | 0.0810 | 1 | 1 | 1 | 0.6029 | | 2024-12-18T05:24:16 |
| L2474223-02 | 144 | Unknown | ? | 0.0009 | 1 | 1 | 1 | 0.0021 | | 2024-12-18T05:25:21 |
| L2474225-01 | 145 | Unknown | ? | 0.0193 | 1 | 1 | 1 | 0.1403 | | 2024-12-18T05:26:25 |
| CCV NO3 | 146 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0035 | | 2024-12-18T05:27:31 |
| CCV NO2 | 147 | QC | 1 | 0.1368 | 1 | 1 | 1 | 1.0206 | | 2024-12-18T05:28:36 |
| CCB | 148 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0028 | | 2024-12-18T05:29:49 |
| L2474270-01 | 149 | Unknown | ? | 0.0008 | 1 | 1 | 1 | 0.0016 | | 2024-12-18T05:30:56 |
| CCV NO3 | 150 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0039 | | 2024-12-18T05:31:58 |
| CCV NO2 | 151 | QC | 1 | 0.1355 | 1 | 1 | 1 | 1.0108 | | 2024-12-18T05:33:07 |
| CCB | 152 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0027 | | 2024-12-18T05:34:19 |
| _spacer_ | 153 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0039 | | 2024-12-18T05:53:24 |
| _spacer_ | 154 | Unknown | ? | 0.0004 | 1 | 1 | 1 | -0.0017 | | 2024-12-18T05:53:54 |
| L2474012-01 | 155 | Unknown | ? | 0.0534 | 1 | 10 | 1 | 3.9603 | | 2024-12-18T05:55:03 |
| L2474014-01 | 156 | Unknown | ? | 0.0297 | 1 | 10 | 1 | 2.1826 | | 2024-12-18T05:56:11 |
| L2474017-01 | 157 | Unknown | ? | 0.0311 | 1 | 10 | 1 | 2.2866 | | 2024-12-18T05:57:19 |
| L2474222-01 | 158 | Unknown | ? | 0.0017 | 1 | 10 | 1 | 0.0816 | | 2024-12-18T05:58:28 |
| L2474223-01 | 159 | Unknown | ? | 0.0038 | 1 | 10 | 1 | 0.2416 | | 2024-12-18T05:59:36 |
| L2474224-02 | 160 | Unknown | ? | 0.0002 | 1 | 10 | 1 | -0.0306 | | 2024-12-18T06:00:45 |
| L2474229-02 | 161 | Unknown | ? | 0.0052 | 1 | 10 | 1 | 0.3437 | | 2024-12-18T06:01:53 |
| L2474329-01 | 162 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0031 | | 2024-12-18T06:03:00 |
| CCV NO3 | 163 | QC | ? | 0.0000 | 1 | 1 | 1 | -0.0040 | | 2024-12-18T06:04:04 |
| CCV NO2 | 164 | QC | 1 | 0.1369 | 1 | 1 | 1 | 1.0214 | | 2024-12-18T06:05:10 |
| CCB | 165 | QC | 0 | 0.0003 | 1 | 1 | 1 | -0.0023 | | 2024-12-18T06:06:23 |
| WG2010532-3; WG2010533-3 | 166 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0035 | | 2024-12-18T06:07:26 |
| WG2010532-4; WG2010533-4 | 167 | Unknown | ? | 0.0003 | 1 | 1 | 1 | -0.0020 | | 2024-12-18T06:08:38 |
| WG2010531-3 | 168 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0035 | | 2024-12-18T06:09:40 |
| WG2010531-4 | 169 | Unknown | ? | 0.5294 | 1 | 1 | 1 | 3.9630 | | 2024-12-18T06:10:48 |
| L2474329-02 | 170 | Unknown | ? | 0.0008 | 1 | 1 | 1 | 0.0020 | | 2024-12-18T06:11:53 |

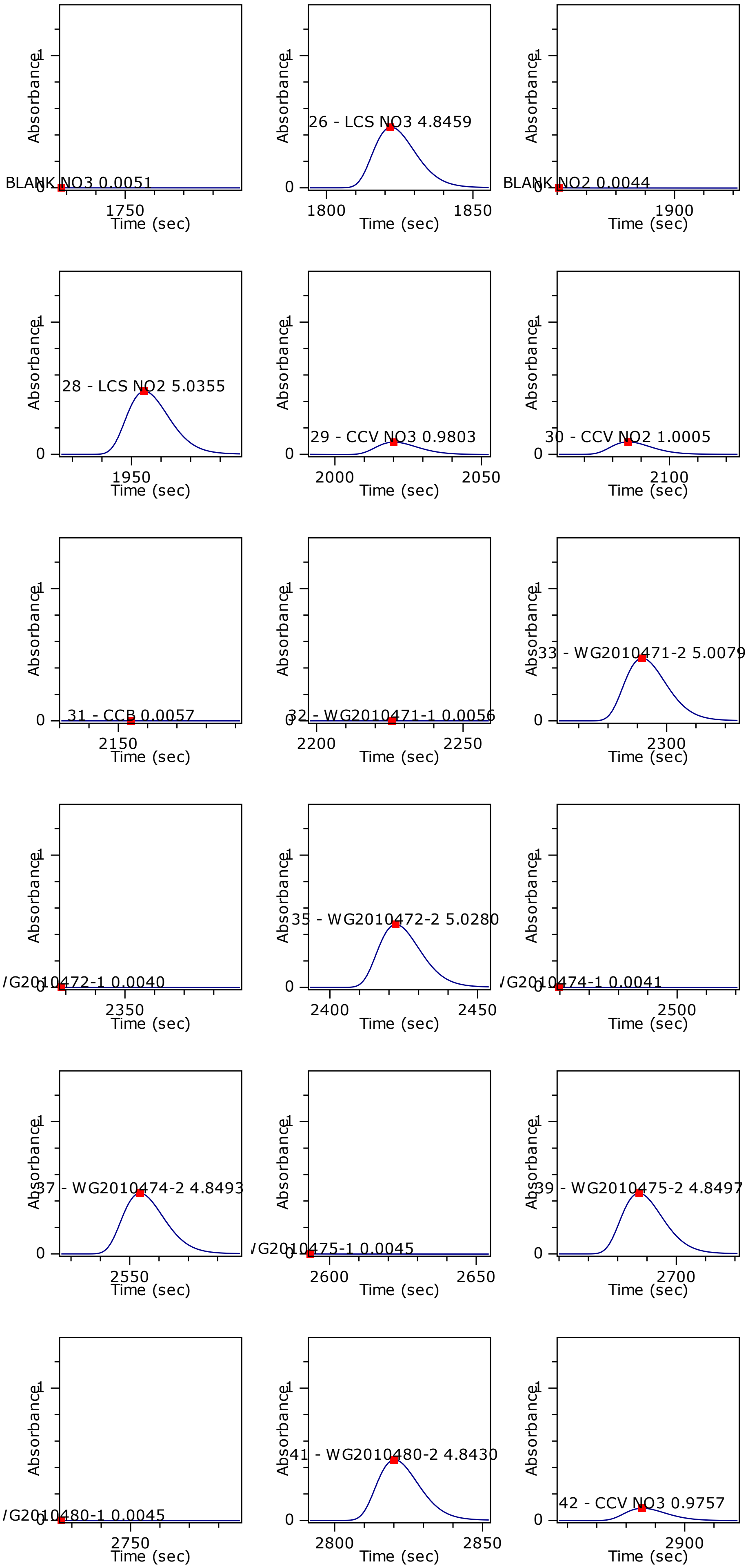
| Name | Inj. No. | Type | Known Conc. mg/L | Response | MDF | ADF | Weight | Calc. Conc. mg/L | Flags | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| L2474329-03 | 171 | Unknown | ? | 0.0008 | 1 | 1 | 1 | 0.0020 | | 2024-12-18T06:12:58 |
| L2474329-04 | 172 | Unknown | ? | 0.0008 | 1 | 1 | 1 | 0.0015 | | 2024-12-18T06:14:04 |
| L2474329-05 | 173 | Unknown | ? | 0.0008 | 1 | 1 | 1 | 0.0020 | | 2024-12-18T06:15:10 |
| L2474316-01 | 174 | Unknown | ? | 0.0009 | 1 | 1 | 1 | 0.0021 | | 2024-12-18T06:16:14 |
| L2474316-02 | 175 | Unknown | ? | 0.0008 | 1 | 1 | 1 | 0.0014 | | 2024-12-18T06:17:21 |
| CCV NO3 | 176 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0040 | | 2024-12-18T06:18:45 |
| CCV NO2 | 177 | QC | 1 | 0.1362 | 1 | 1 | 1 | 1.0160 | | 2024-12-18T06:19:31 |
| CCB | 178 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0026 | | 2024-12-18T06:20:46 |
| L2474316-03 | 179 | Unknown | ? | 0.0012 | 1 | 1 | 1 | 0.0043 | | 2024-12-18T06:21:53 |
| L2474316-04 | 180 | Unknown | ? | 0.0011 | 1 | 1 | 1 | 0.0038 | | 2024-12-18T06:23:02 |
| L2474316-05 | 181 | Unknown | ? | 0.0011 | 1 | 1 | 1 | 0.0037 | | 2024-12-18T06:24:07 |
| L2474320-01 | 182 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0028 | | 2024-12-18T06:25:14 |
| L2474320-02 | 183 | Unknown | ? | 0.0012 | 1 | 1 | 1 | 0.0049 | | 2024-12-18T06:26:20 |
| CCV NO3 | 184 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0036 | | 2024-12-18T06:27:20 |
| CCV NO2 | 185 | QC | 1 | 0.1369 | 1 | 1 | 1 | 1.0216 | | 2024-12-18T06:28:30 |
| CCB | 186 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0027 | | 2024-12-18T06:29:43 |

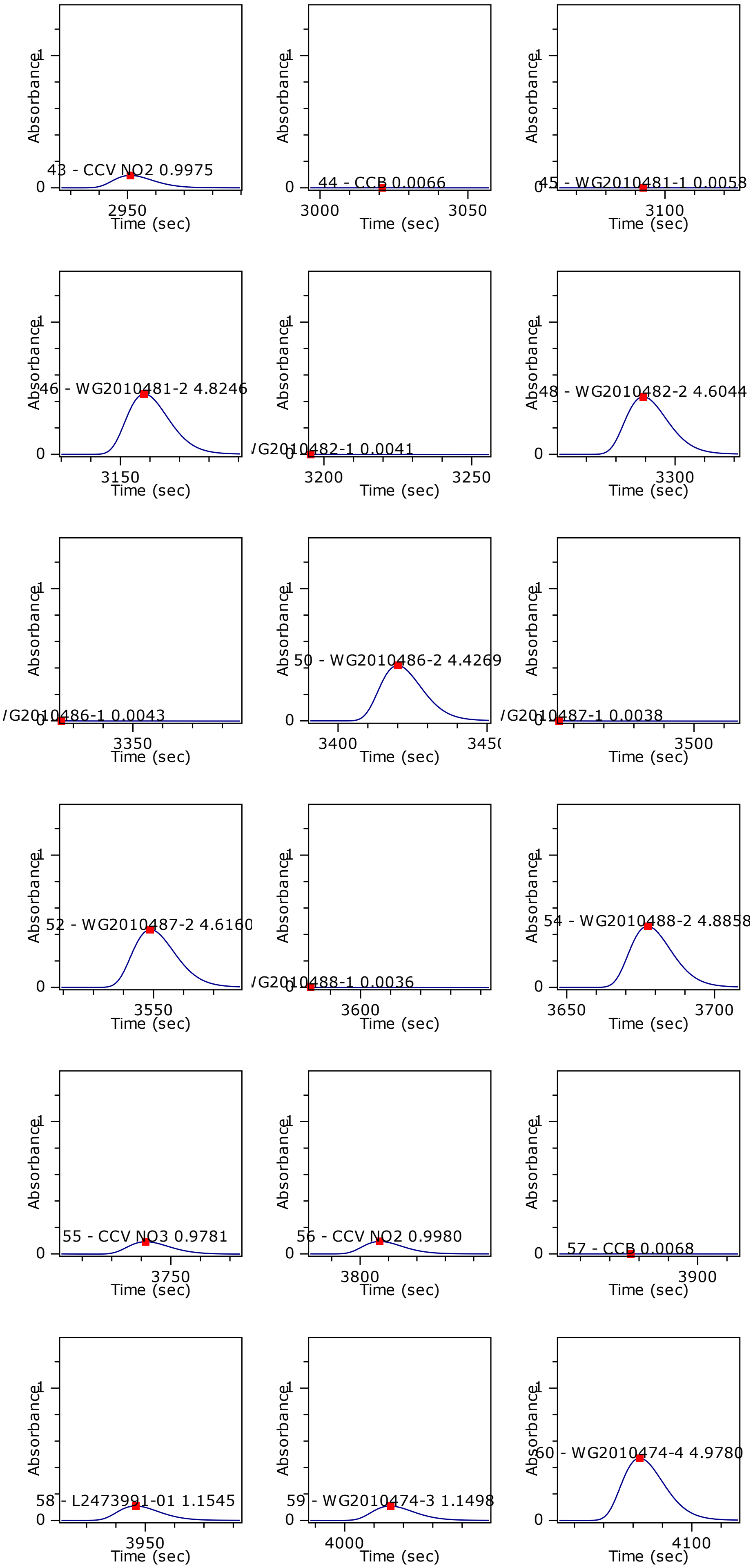
Peaks:

Channel: 1-NOx




7 - NOx 0.1ppm 0.1008
8 - NOx 0.0ppm 0.0069
9 - Nitrite 8.0ppm 7.8966
10 - Nitrite 4.0ppm 4.0626
11 - Nitrite 1.0ppm 1.0008
12 - Nitrite 0.4ppm 0.4004
13 - Nitrite 0.1ppm 0.1021
14 - Nitrite 0.05ppm 0.0542
15 - Nitrite 0.0ppm 0.0065
16 - CCV NO3 0.9954
17 - CCV NO2 1.0019
18 - CCB 0.0055
19 - ICV NO3 5.0 4.8394
20 - ICV NO2 5.0 5.0149
21 - ICV NO3 0.5 0.4542
22 - ICV NO2 0.5 0.4849
23 - ICB 0.0054
24 - Diluter CHK 8PPM 8.0583
Absorbance
Time (sec)


BLANK NO3 0.0051
26 - LCS NO3 4.8459
BLANK NO2 0.0044
28 - LCS NO2 5.0355
29 - CCV NO3 0.9803
30 - CCV NO2 1.0005
31 - CCB 0.0057
32 - WG2010471-1 0.0056
33 - WG2010471-2 5.0079
/G2010472-1 0.0040
35 - WG2010472-2 5.0280
/G2010474-1 0.0041
37 - WG2010474-2 4.8493
/G2010475-1 0.0045
39 - WG2010475-2 4.8497
/G2010480-1 0.0045
41 - WG2010480-2 4.8430
42 - CCV NO3 0.9757
Absorbance
Time (sec)


43 - CCV NO2 0.9975
44 - CCB 0.0066
45 - WG2010481-1 0.0058
46 - WG2010481-2 4.8246
/G2010482-1 0.0041
48 - WG2010482-2 4.6044
/G2010486-1 0.0043
50 - WG2010486-2 4.4269
/G2010487-1 0.0038
52 - WG2010487-2 4.6160
/G2010488-1 0.0036
54 - WG2010488-2 4.8858
55 - CCV NO3 0.9781
56 - CCV NO2 0.9980
57 - CCB 0.0068
58 - L2473991-01 1.1545
59 - WG2010474-3 1.1498
60 - WG2010474-4 4.9780
Absorbance
Time (sec)
2950
3000
3050
3100
3150
3200
3250
3300
3350
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3450
3500
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3600
3650
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3750
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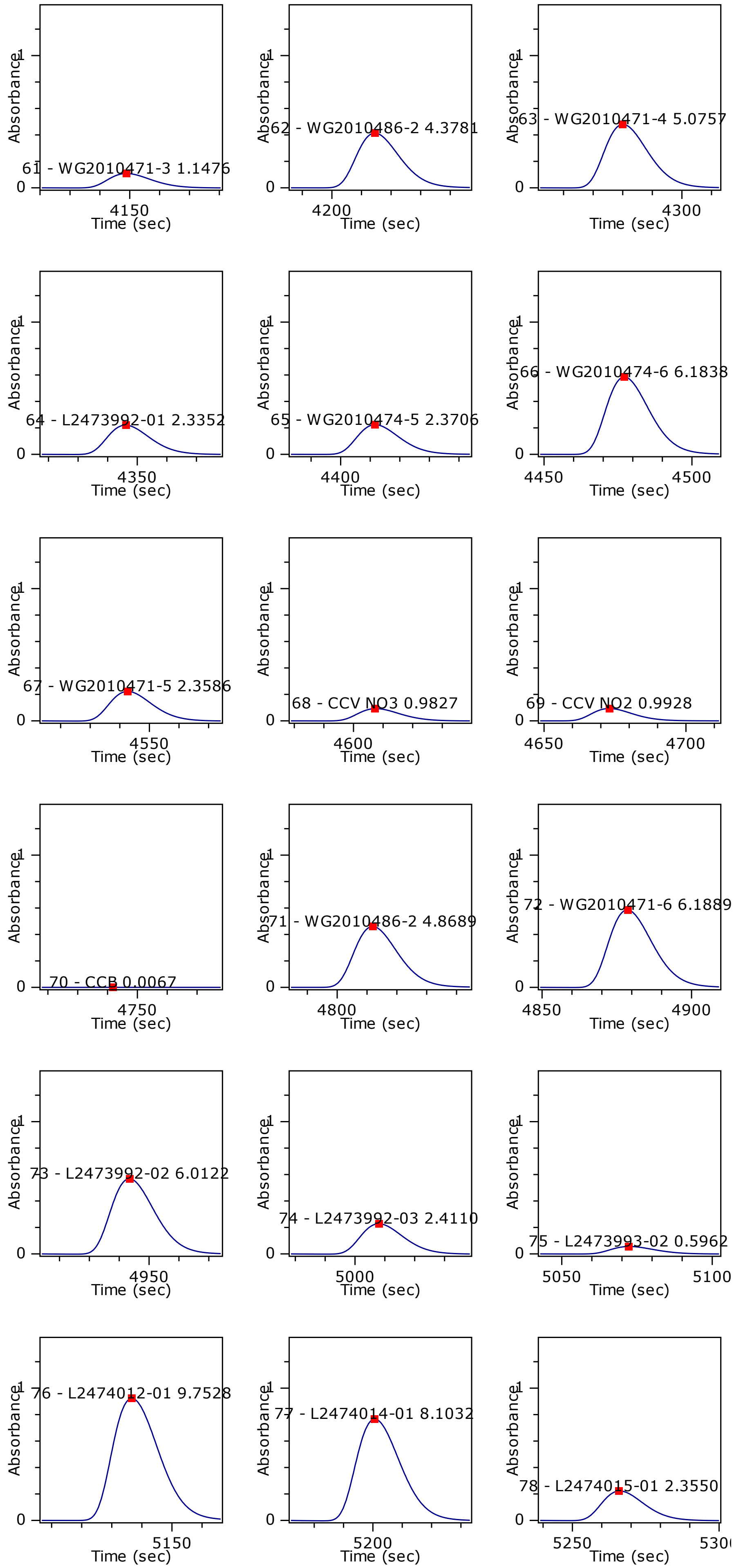
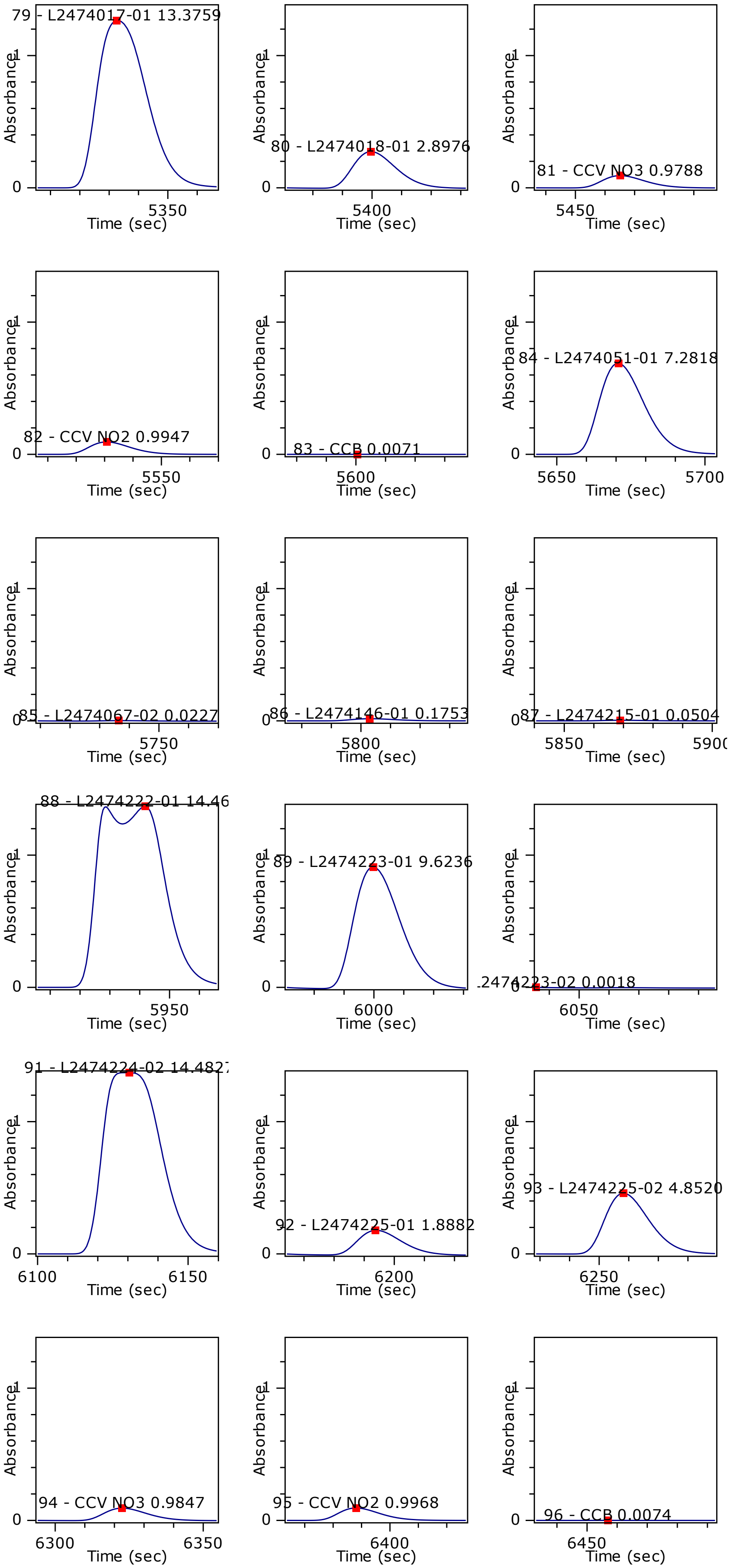
3900
3950
4000
4100


61 - WG2010471-3 1.1476
62 - WG2010486-2 4.3781
63 - WG2010471-4 5.0757
64 - L2473992-01 2.3352
65 - WG2010474-5 2.3706
66 - WG2010474-6 6.1838
67 - WG2010471-5 2.3586
68 - CCV NO3 0.9827
69 - CCV NO2 0.9928
70 - CCB 0.0067
71 - WG2010486-2 4.8689
72 - WG2010471-6 6.1889
73 - L2473992-02 6.0122
74 - L2473992-03 2.4110
75 - L2473993-02 0.5962
76 - L2474012-01 9.7528
77 - L2474014-01 8.1032
78 - L2474015-01 2.3550
Absorbance
Time (sec)


79 - L2474017-01 13.3759
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81 - CCV NO3 0.9788
82 - CCV NO2 0.9947
83 - CCB 0.0071
84 - L2474051-01 7.2818
85 - L2474067-02 0.0227
86 - L2474146-01 0.1753
87 - L2474215-01 0.0504
88 - L2474222-01 14.46
89 - L2474223-01 9.6236
.2474223-02 0.0018
91 - L2474224-02 14.482
92 - L2474225-01 1.8882
93 - L2474225-02 4.8520
94 - CCV NO3 0.9847
95 - CCV NO2 0.9968
96 - CCB 0.0074
Absorbance
Time (sec)
5350
5400
5450
5550
5600
5650
5700
5750
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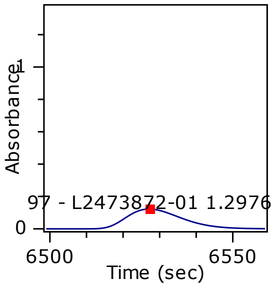
6300
6350
6400
6450


97 - L2473872-01 1.2976
Absorbance
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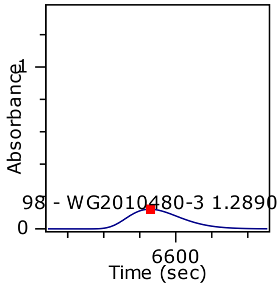
6550
Time (sec)


98 - WG2010480-3 1.2890
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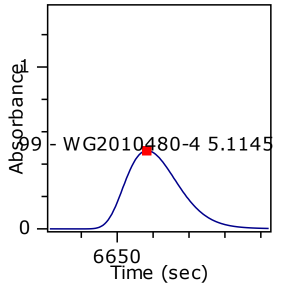
Time (sec)


99 - WG2010480-4 5.1145
Absorbance
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0
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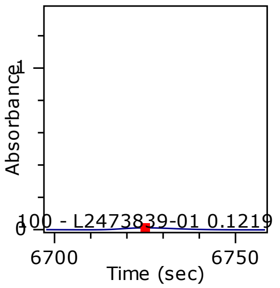
Time (sec)


100 - L2473839-01 0.1219
Absorbance
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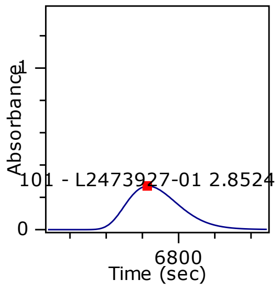
0
6700
6750
Time (sec)


101 - L2473927-01 2.8524
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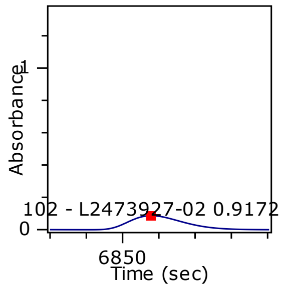
Time (sec)


102 - L2473927-02 0.9172
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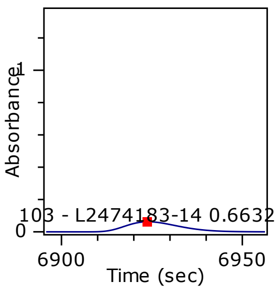
Time (sec)


103 - L2474183-14 0.6632
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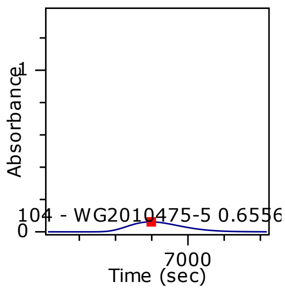
6900
6950
Time (sec)


104 - WG2010475-5 0.6556
Absorbance
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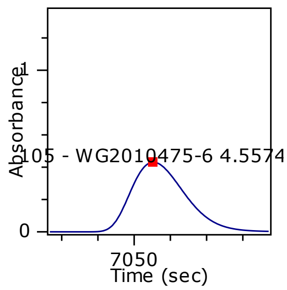
7000
Time (sec)


105 - WG2010475-6 4.5574
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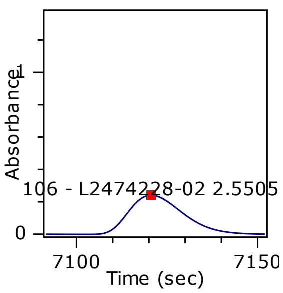
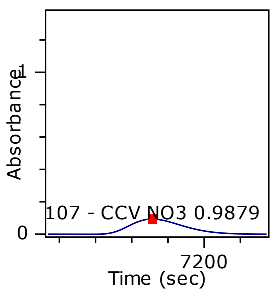
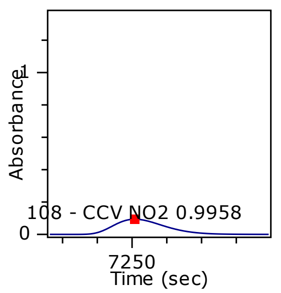
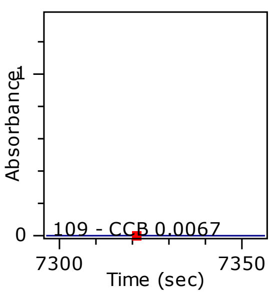
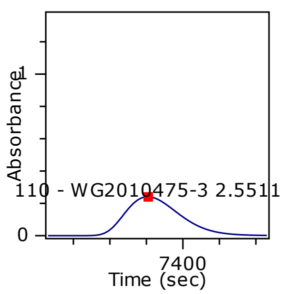
1
0
7050
Time (sec)

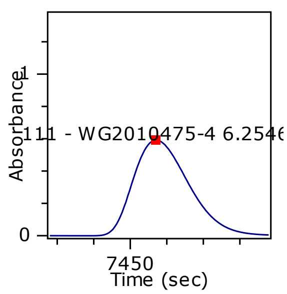

106 - L2474228-02 2.5505
Absorbance
1
0
7100
7150
Time (sec)

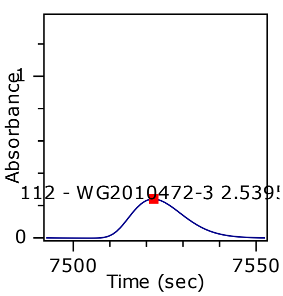

107 - CCV NO3 0.9879
Absorbance
1
0
7200
Time (sec)

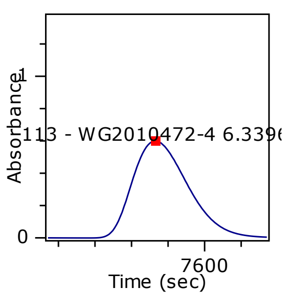

108 - CCV NO2 0.9958
Absorbance
1
0
7250
Time (sec)

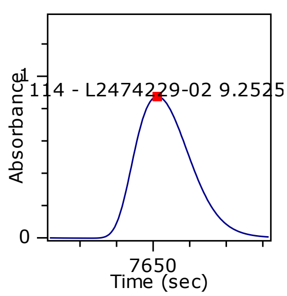

109 - CCB 0.0067
Absorbance
1
0
7300
7350
Time (sec)

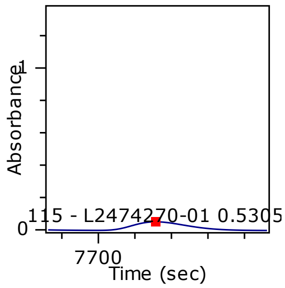

110 - WG2010475-3 2.5511
Absorbance
1
0
7400
Time (sec)


111 - WG2010475-4 6.254
Absorbance
1
0
7450
Time (sec)


112 - WG2010472-3 2.539
Absorbance
1
0
7500
7550
Time (sec)


113 - WG2010472-4 6.339
Absorbance
1
0
7600
Time (sec)


114 - L2474229-02 9.2525
Absorbance
1
0
7650
Time (sec)


Absorbance
1
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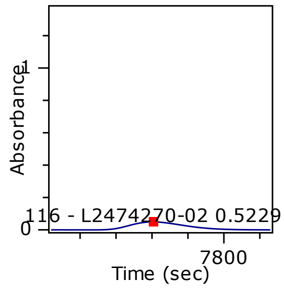
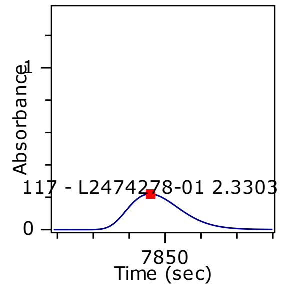
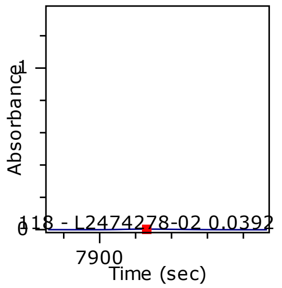
115 - L2474270-01 0.5305
7700
Time (sec)


Absorbance
1
0
116 - L2474270-02 0.5229
7800
Time (sec)


Absorbance
1
0
117 - L2474278-01 2.3303
7850
Time (sec)


Absorbance
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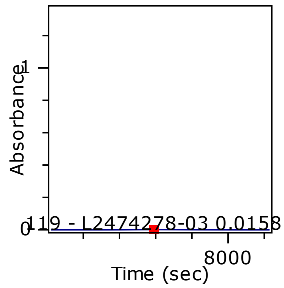
118 - L2474278-02 0.0392
7900
Time (sec)


Absorbance
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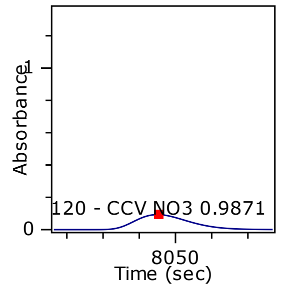
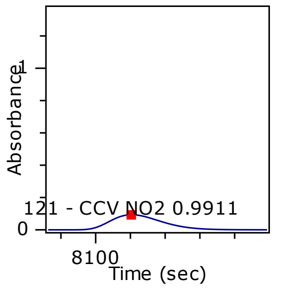
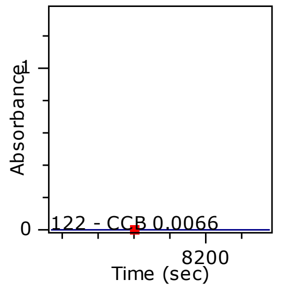
119 - L2474278-03 0.0158
8000
Time (sec)


Absorbance
1
0
120 - CCV NO3 0.9871
8050
Time (sec)


Absorbance
1
0
121 - CCV NO2 0.9911
8100
Time (sec)


Absorbance
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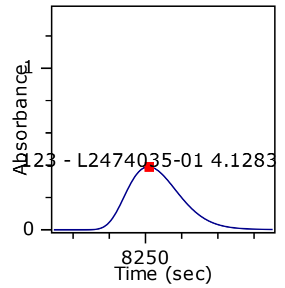
0
122 - CCB 0.0066
8200
Time (sec)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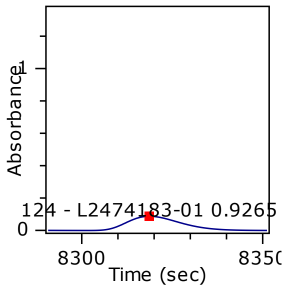
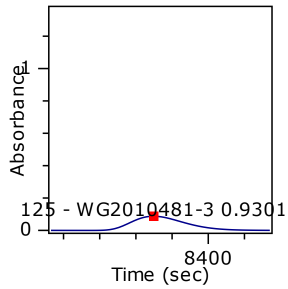
123 - L2474035-01 4.1283
8250
Time (sec)


Absorbance
1
0
124 - L2474183-01 0.9265
8300
8350
Time (sec)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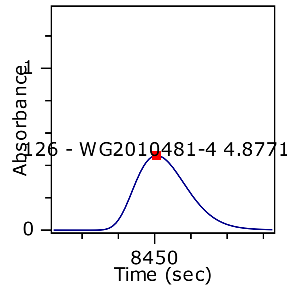
125 - WG2010481-3 0.9301
8400
Time (sec)


Absorbance
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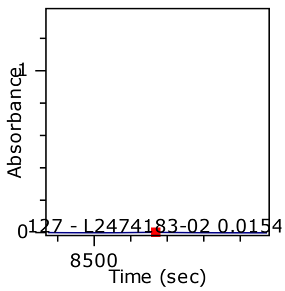
126 - WG2010481-4 4.8771
8450
Time (sec)


Absorbance
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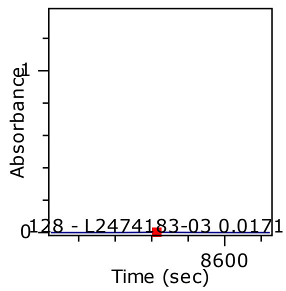
127 - L2474183-02 0.0154
8500
Time (sec)


Absorbance
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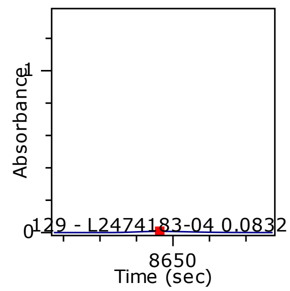
0
128 - L2474183-03 0.0171
8600
Time (sec)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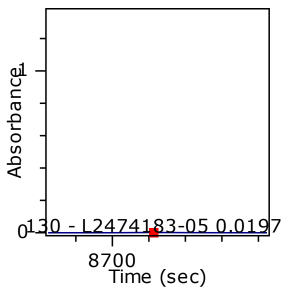
129 - L2474183-04 0.0832
8650
Time (sec)


Absorbance
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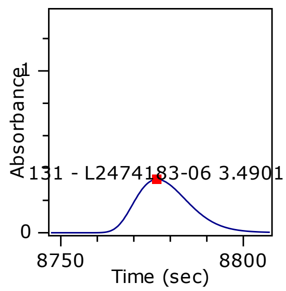
130 - L2474183-05 0.0197
8700
Time (sec)


Absorbance
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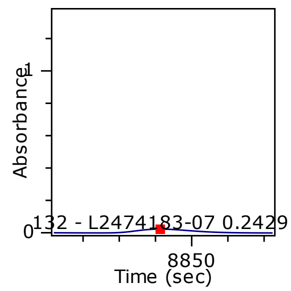
131 - L2474183-06 3.4901
8750
8800
Time (sec)


Absorbance
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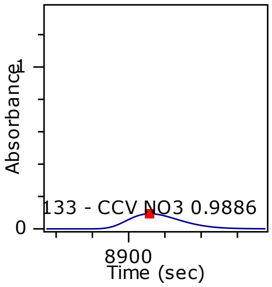
132 - L2474183-07 0.2429
8850
Time (sec)


Absorbance
1
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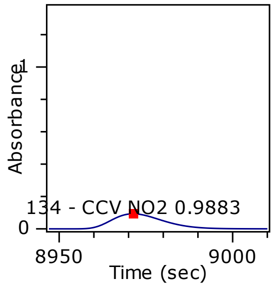
133 - CCV NO3 0.9886
8900
Time (sec)


Absorbance
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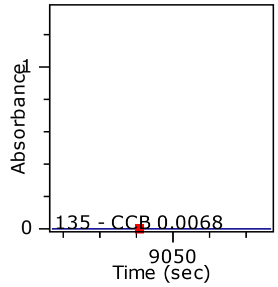
134 - CCV NO2 0.9883
8950
9000
Time (sec)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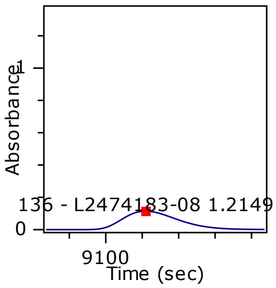
135 - CCB 0.0068
9050
Time (sec)


Absorbance
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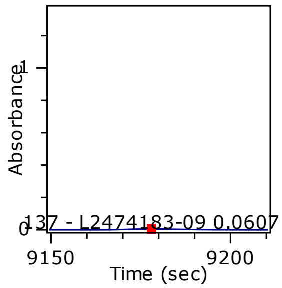
0
136 - L2474183-08 1.2149
9100
Time (sec)


Absorbance
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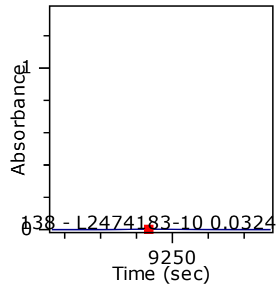
137 - L2474183-09 0.0607
9150
9200
Time (sec)


Absorbance
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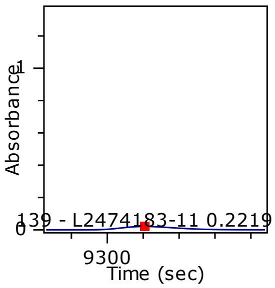
138 - L2474183-10 0.0324
9250
Time (sec)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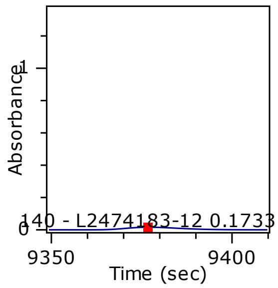
139 - L2474183-11 0.2219
9300
Time (sec)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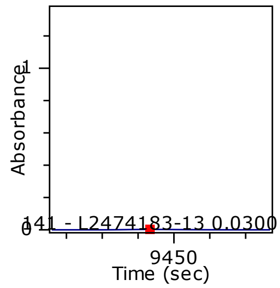
140 - L2474183-12 0.1733
9350
9400
Time (sec)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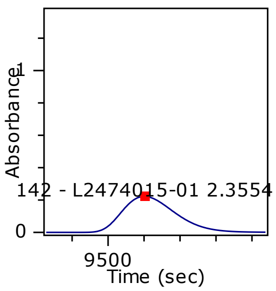
141 - L2474183-13 0.0300
9450
Time (sec)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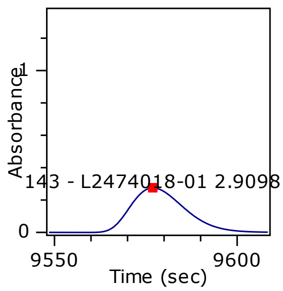
142 - L2474015-01 2.3554
9500
Time (sec)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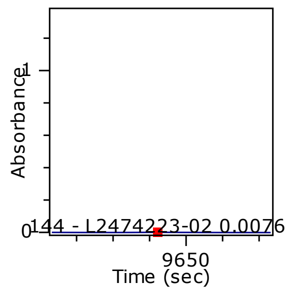
143 - L2474018-01 2.9098
9550
9600
Time (sec)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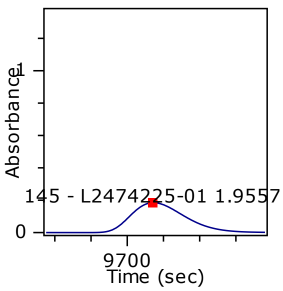
144 - L2474223-02 0.0076
9650
Time (sec)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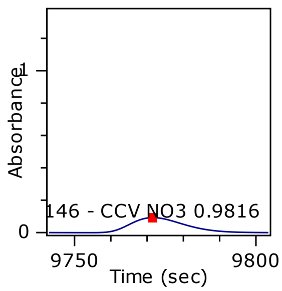
145 - L2474225-01 1.9557
9700
Time (sec)


Absorbance
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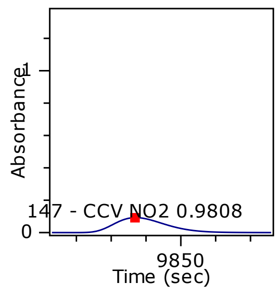
146 - CCV NO3 0.9816
9750
9800
Time (sec)


Absorbance
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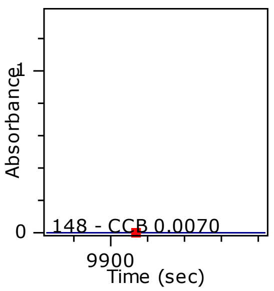
147 - CCV NO2 0.9808
9850
Time (sec)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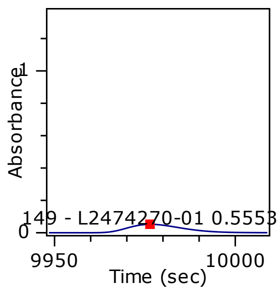
148 - CCB 0.0070
9900
Time (sec)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149 - L2474270-01 0.5553
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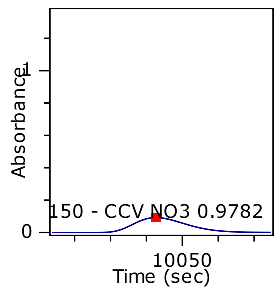
10000
Time (sec)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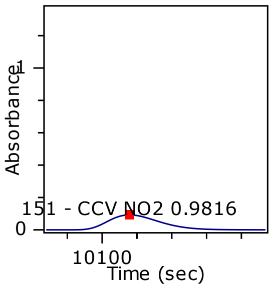
150 - CCV NO3 0.9782
10050
Time (sec)


151 - CCV NO2 0.9816
Absorbance
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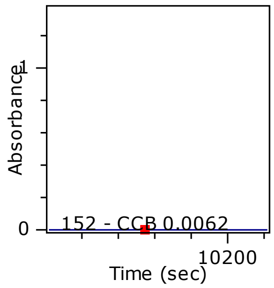
0
10100
Time (sec)


152 - CCB 0.0062
Absorbance
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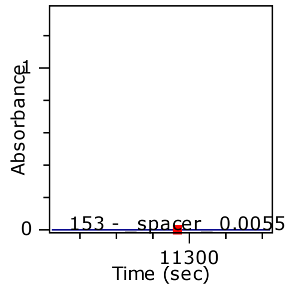
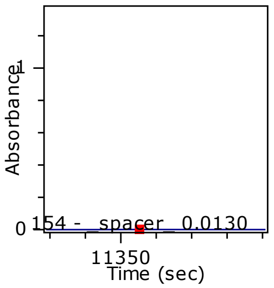
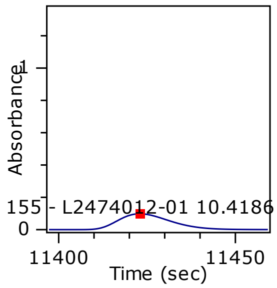
10200
Time (sec)


153 - spacer 0.0055
Absorbance
1
0
11300
Time (sec)


154 - spacer 0.0130
Absorbance
1
0
11350
Time (sec)


155 - L2474012-01 10.4186
Absorbance
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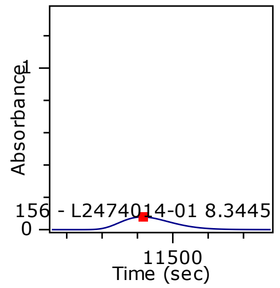
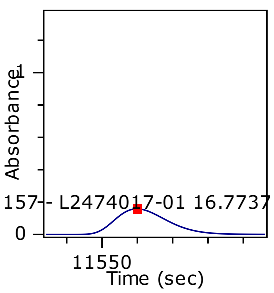
0
11400
11450
Time (sec)


156 - L2474014-01 8.3445
Absorbance
1
0
11500
Time (sec)


157 - L2474017-01 16.7737
Absorbance
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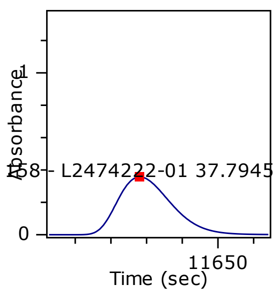
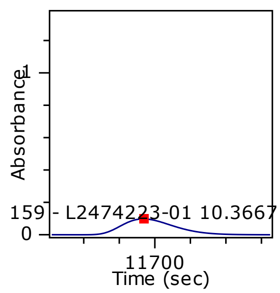
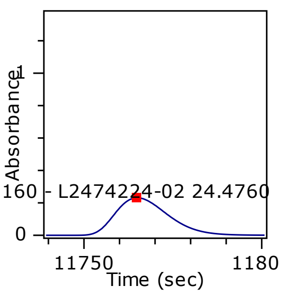
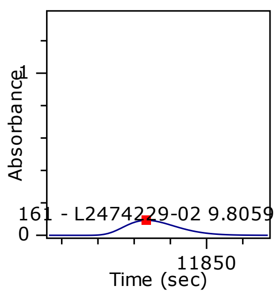
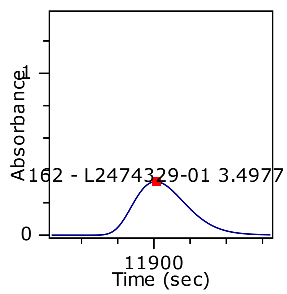
0
11550
Time (sec)

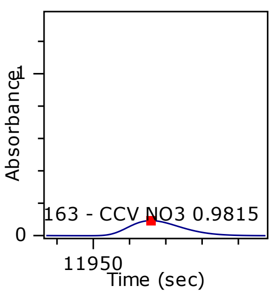

158 - L2474222-01 37.7945
Absorbance
1
0
11650
Time (sec)

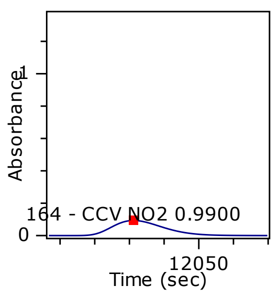

159 - L2474223-01 10.3667
Absorbance
1
0
11700
Time (sec)

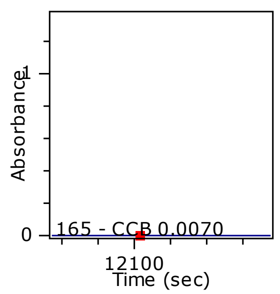

160 - L2474224-02 24.4760
Absorbance
1
0
11750
1180
Time (sec)

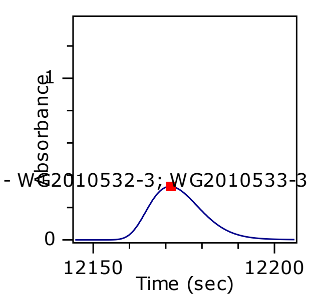

161 - L2474229-02 9.8059
Absorbance
1
0
11850
Time (sec)

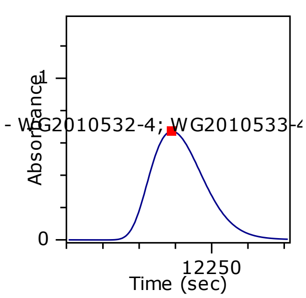

162 - L2474329-01 3.4977
Absorbance
1
0
11900
Time (sec)

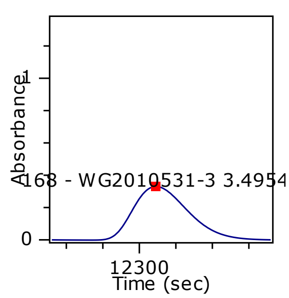

163 - CCV NO3 0.9815
Absorbance
1
0
11950
Time (sec)

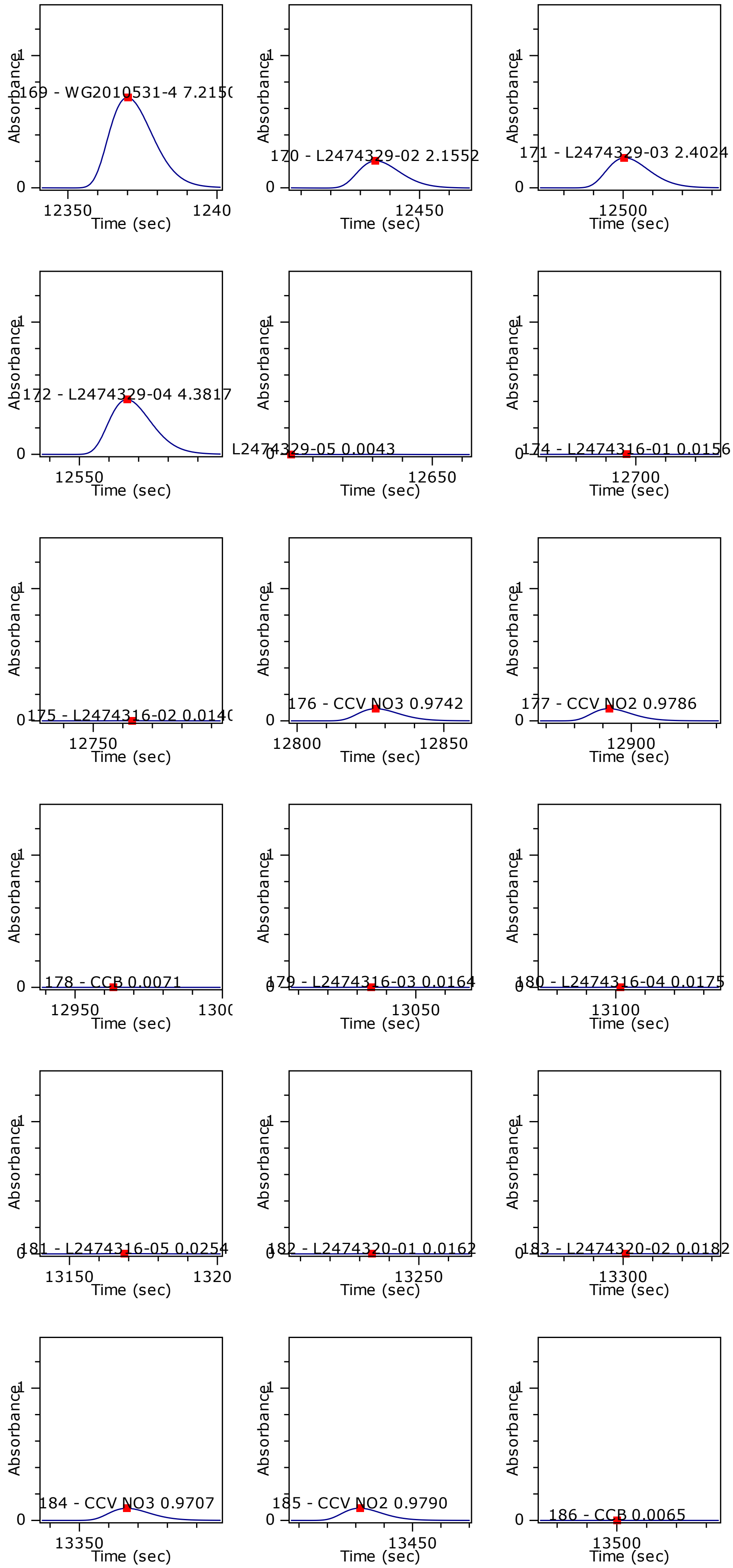

164 - CCV NO2 0.9900
Absorbance
1
0
12050
Time (sec)


165 - CCB 0.0070
Absorbance
1
0
12100
Time (sec)

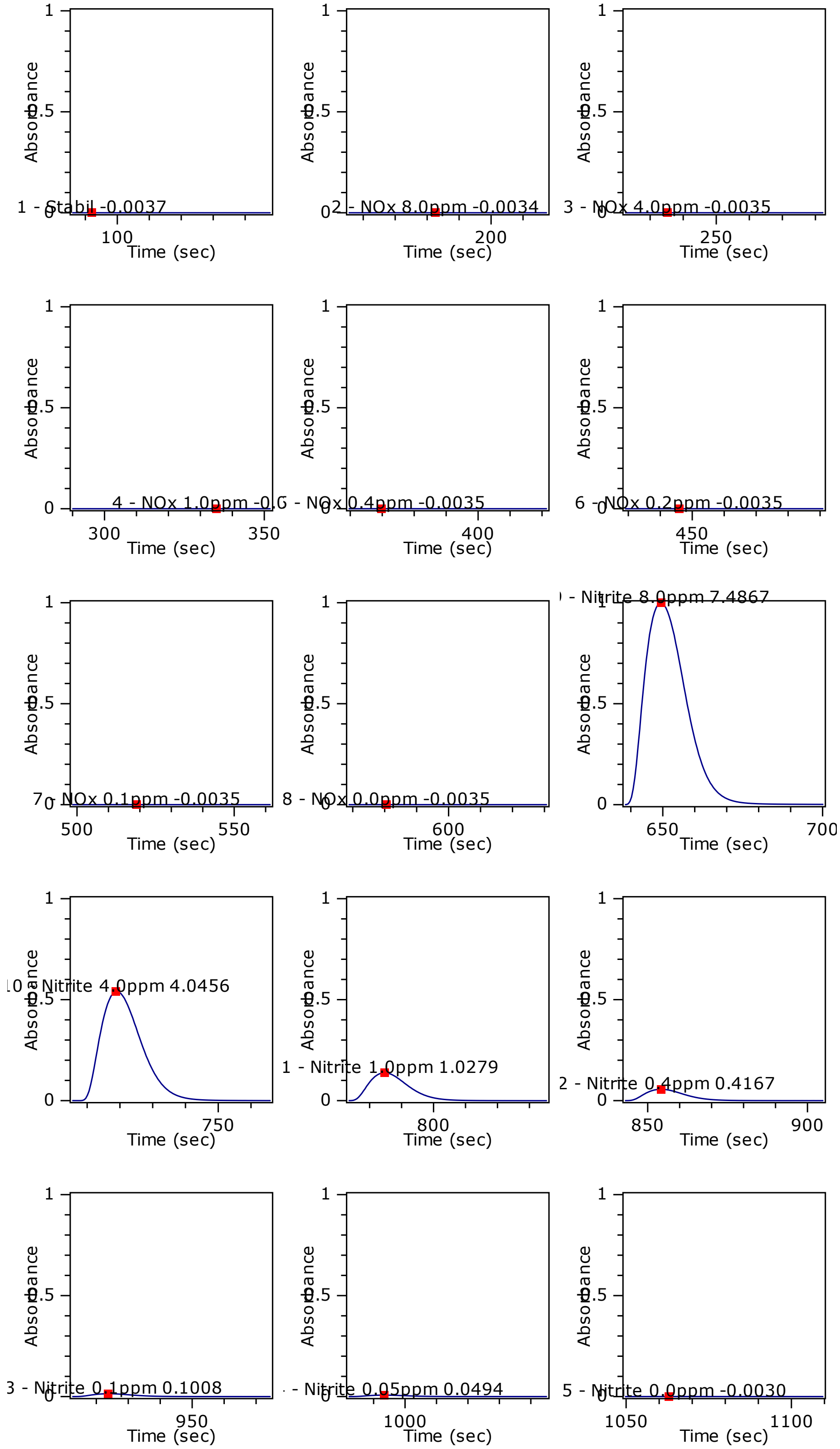

- WG2010532-3; WG2010533-3
Absorbance
1
0
12150
12200
Time (sec)

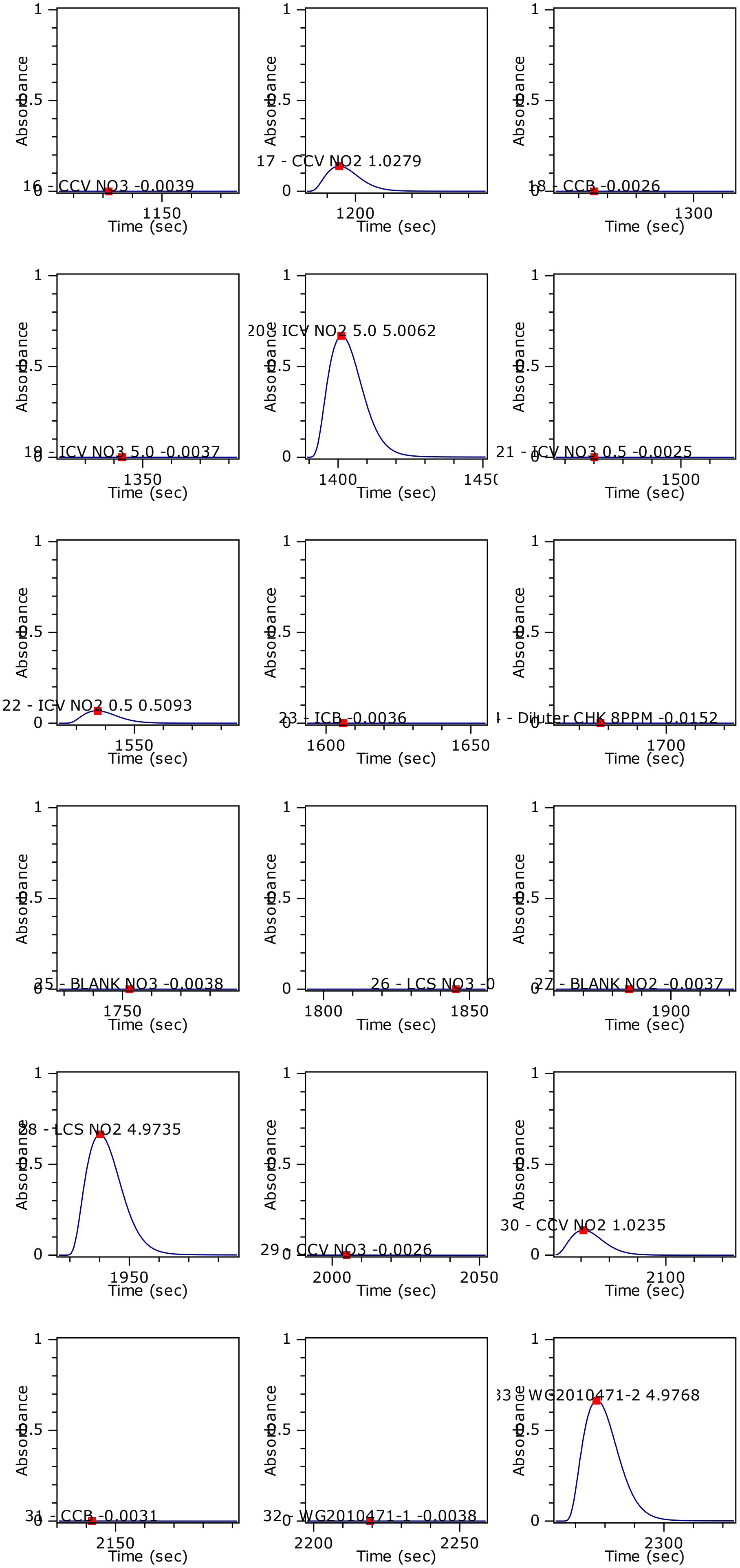

- WG2010532-4; WG2010533-
Absorbance
1
0
12250
Time (sec)

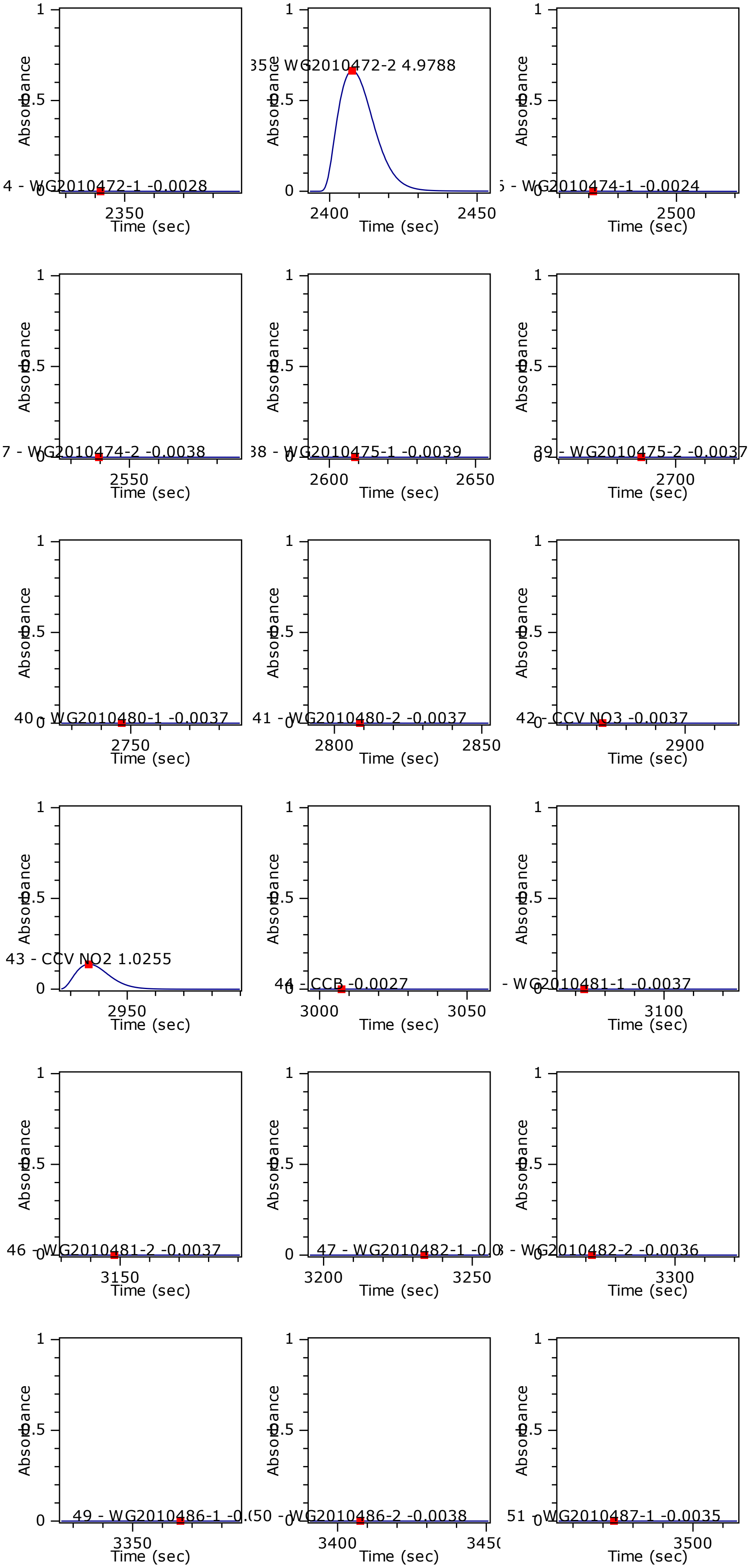

168 - WG2010531-3 3.495
Absorbance
1
0
12300
Time (sec)

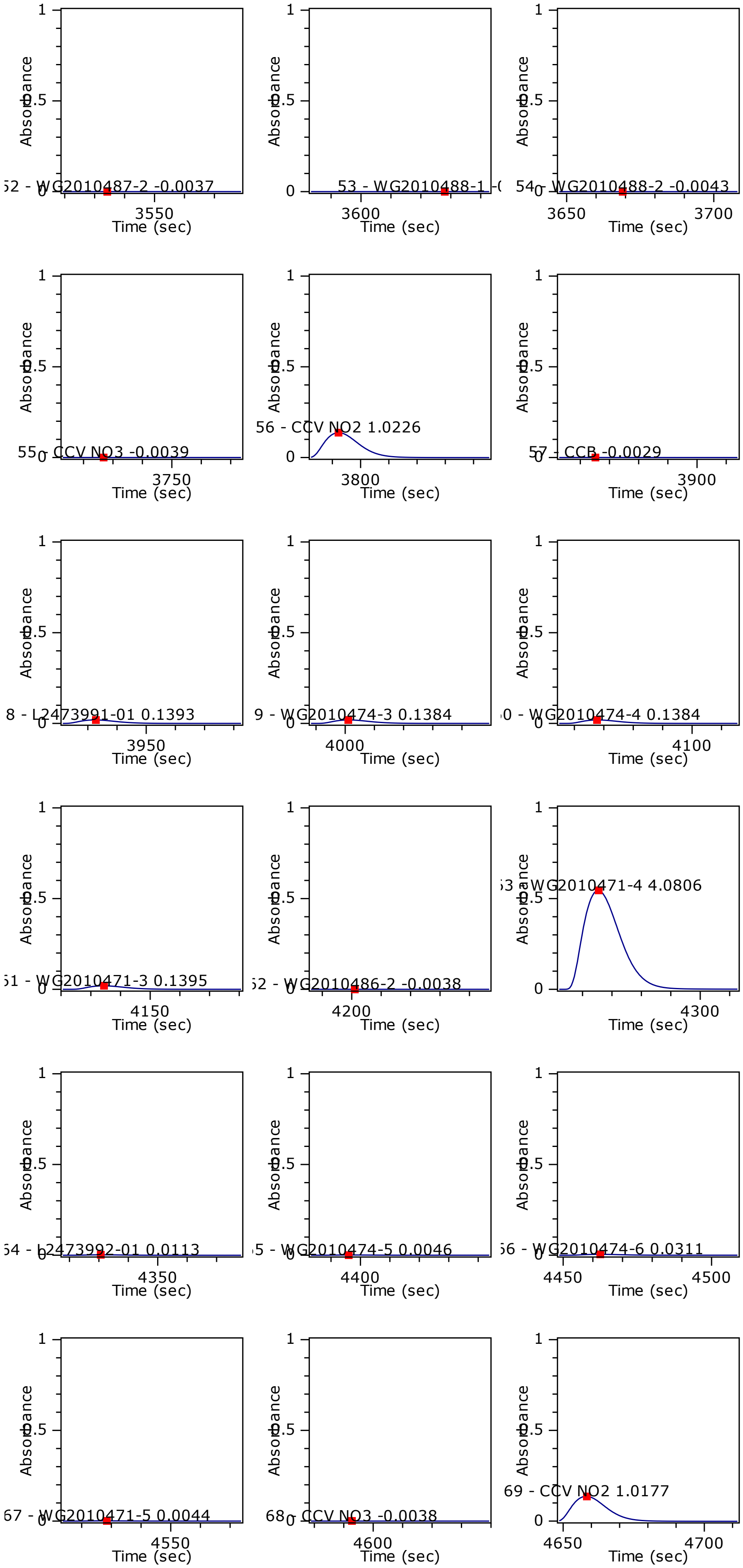

169 - WG2010531-4 7.215(
170 - L2474329-02 2.1552
171 - L2474329-03 2.4024
172 - L2474329-04 4.3817
L2474329-05 0.0043
174 - L2474316-01 0.0156
175 - L2474316-02 0.014(
176 - CCV NO3 0.9742
177 - CCV NO2 0.9786
178 - CCB 0.0071
179 - L2474316-03 0.0164
180 - L2474316-04 0.0175
181 - L2474316-05 0.0254
182 - L2474320-01 0.0162
183 - L2474320-02 0.0182
184 - CCV NO3 0.9707
185 - CCV NO2 0.9790
186 - CCB 0.0065
Absorbance
Time (sec)

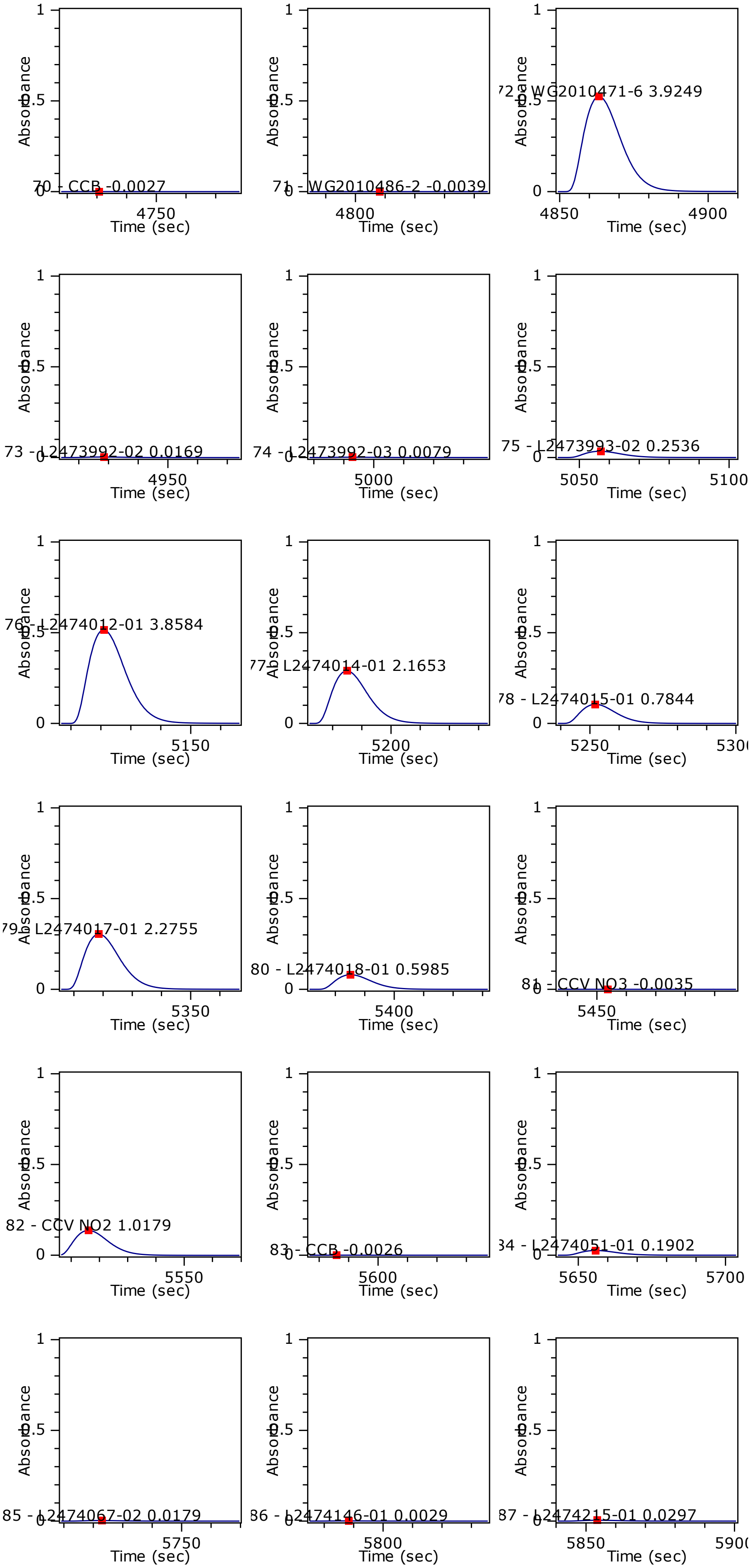
Channel: 2-NO2

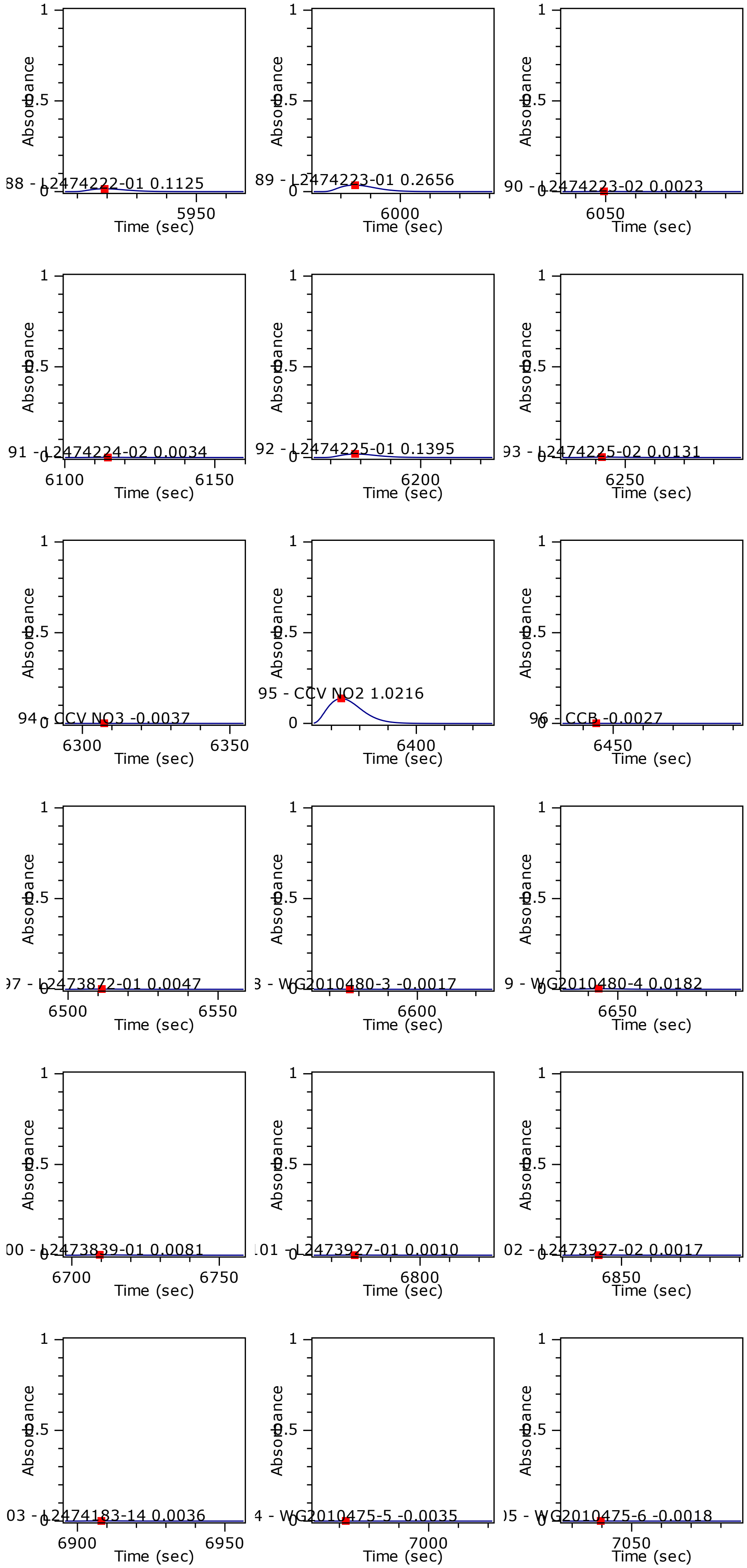


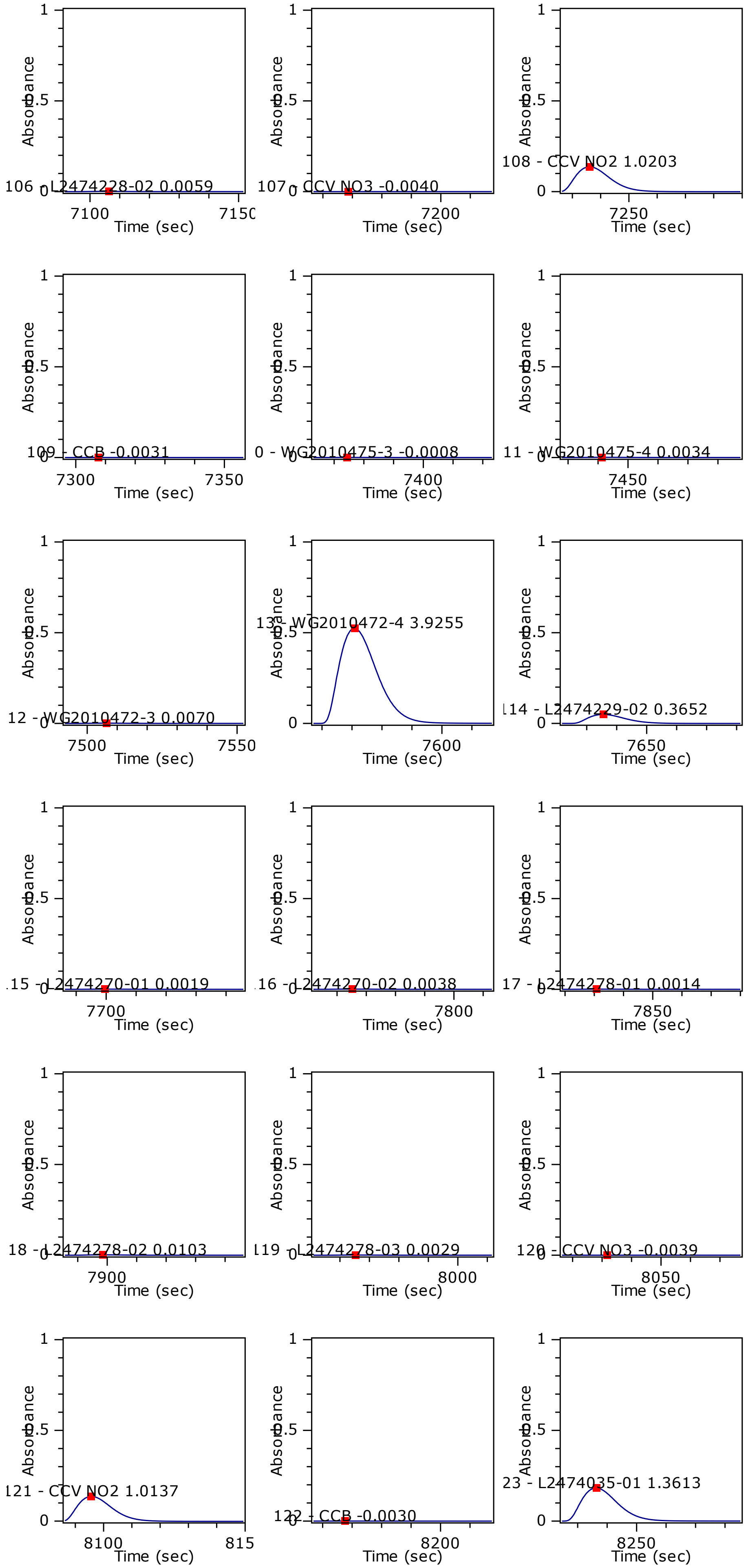

16 - CCV NO3 -0.0039
17 - CCV NO2 1.0279
18 - CCB -0.0026
19 - ICV NO3 5.0 -0.0037
20 - ICV NO2 5.0 5.0062
21 - ICV NO3 0.5 -0.0025
22 - ICV NO2 0.5 0.5093
23 - ICB -0.0036
- Diluter CHK 8PPM -0.0152
25 - BLANK NO3 -0.0038
26 - LCS NO3 -0
27 - BLANK NO2 -0.0037
28 - LCS NO2 4.9735
29 - CCV NO3 -0.0026
30 - CCV NO2 1.0235
31 - CCB -0.0031
32 - WG2010471-1 -0.0038
33 - WG2010471-2 4.9768
Absorbance
Time (sec)

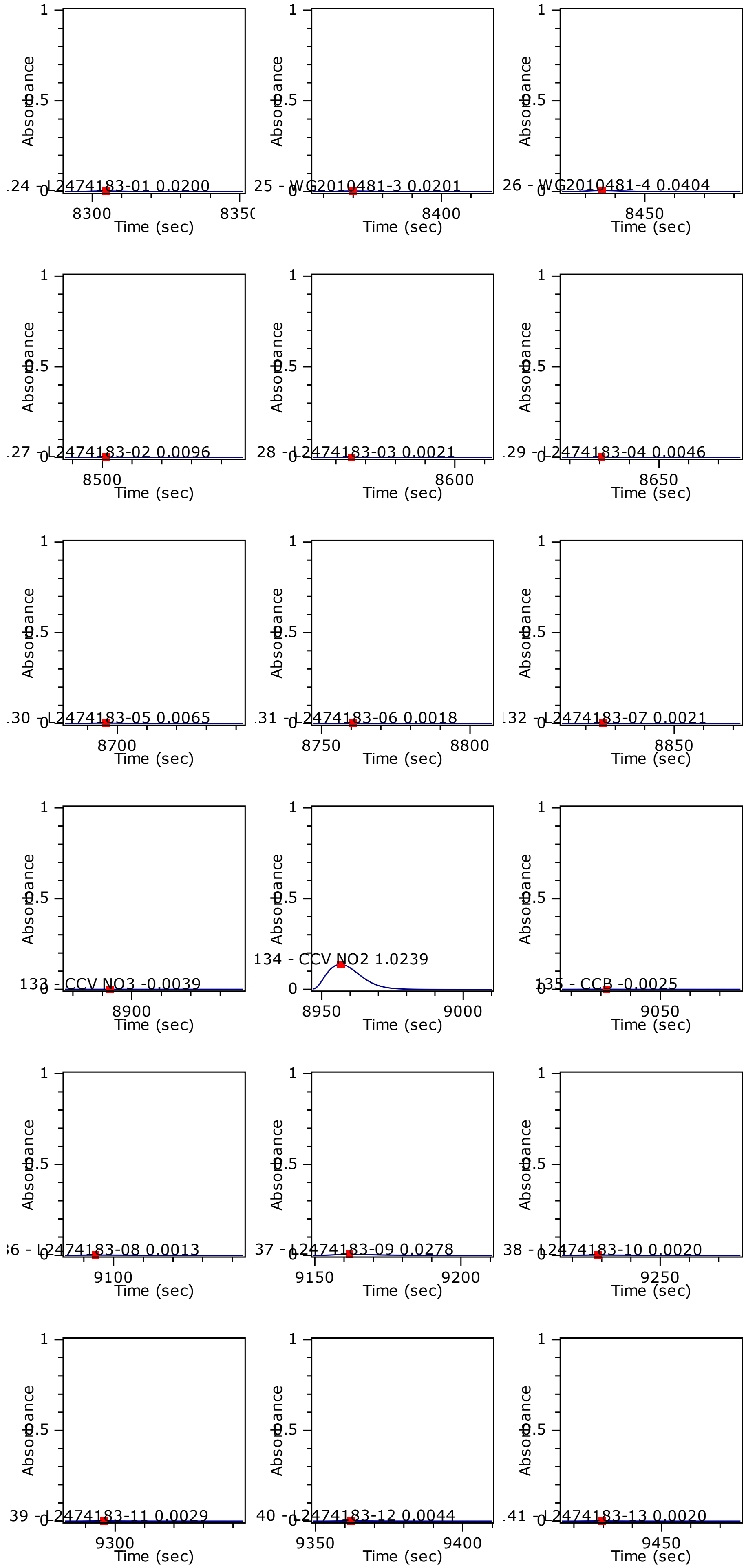

4 - WG2010472-1 -0.0028
35 - WG2010472-2 4.9788
- WG2010474-1 -0.0024
7 - WG2010474-2 -0.0038
38 - WG2010475-1 -0.0039
39 - WG2010475-2 -0.0037
40 - WG2010480-1 -0.0037
41 - WG2010480-2 -0.0037
42 - CCV NO3 -0.0037
43 - CCV NO2 1.0255
44 - CCB -0.0027
- WG2010481-1 -0.0037
46 - WG2010481-2 -0.0037
47 - WG2010482-1 -0.0
- WG2010482-2 -0.0036
49 - WG2010486-1 -0.
50 - WG2010486-2 -0.0038
51 - WG2010487-1 -0.0035
Absorbance
Time (sec)
1
0.5
0
2350
2400
2450
2500
2550
2600
2650
2700
2750
2800
2850
2900
2950
3000
3050
3100
3150
3200
3250
3300
3350
3400
3500

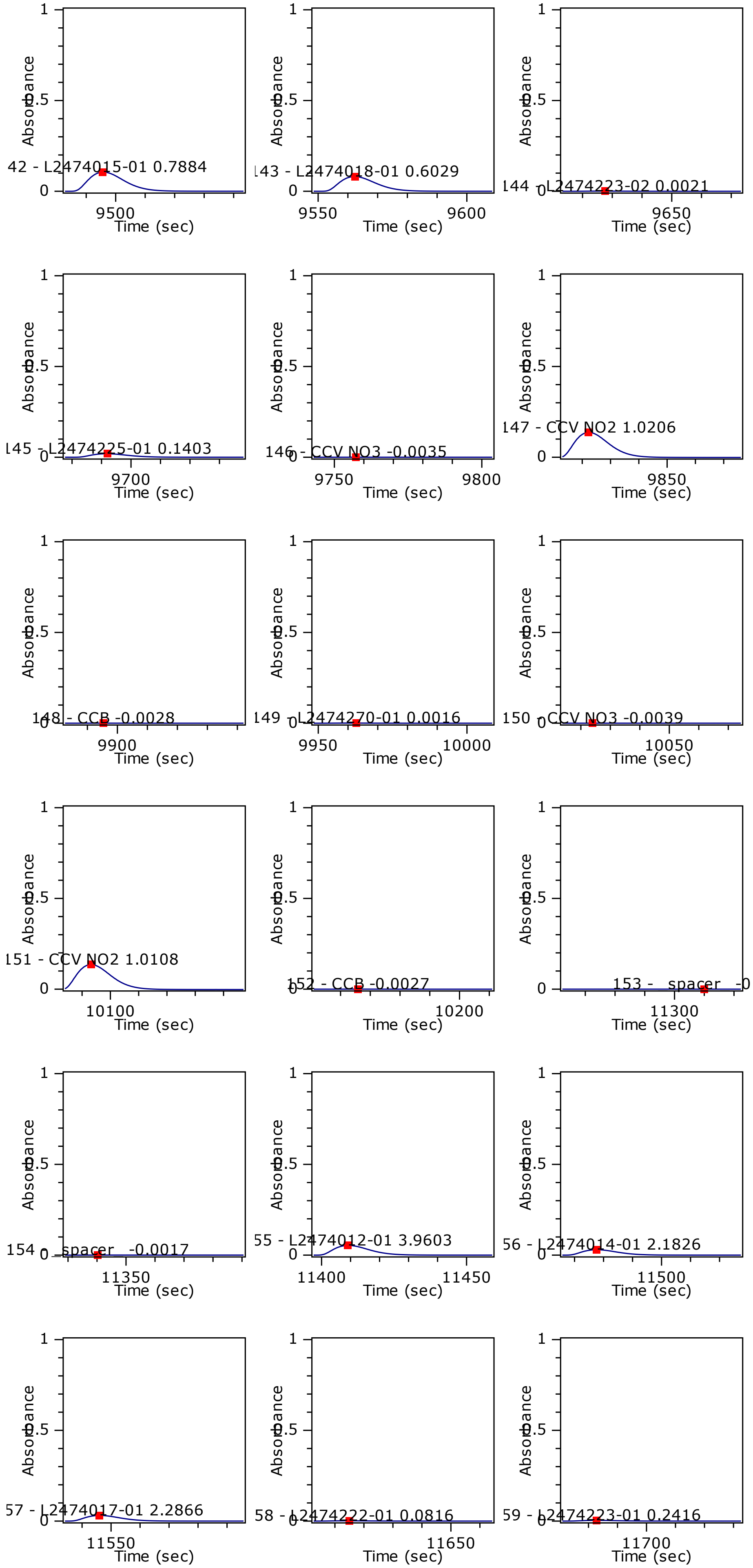

52 - WG2010487-2 -0.0037
53 - WG2010488-1 -(
54 - WG2010488-2 -0.0043
55 - CCV NO3 -0.0039
56 - CCV NO2 1.0226
57 - CCB -0.0029
8 - L2473991-01 0.1393
9 - WG2010474-3 0.1384
0 - WG2010474-4 0.1384
51 - WG2010471-3 0.1395
52 - WG2010486-2 -0.0038
53 - WG2010471-4 4.0806
54 - L2473992-01 0.0113
5 - WG2010474-5 0.0046
56 - WG2010474-6 0.0311
67 - WG2010471-5 0.0044
68 - CCV NO3 -0.0038
69 - CCV NO2 1.0177
Absorbance
Time (sec)


70 - CCB -0.0027
71 - WG2010486-2 -0.0039
72 - WG2010471-6 3.9249
73 - L2473992-02 0.0169
74 - L2473992-03 0.0079
75 - L2473993-02 0.2536
76 - L2474012-01 3.8584
77 - L2474014-01 2.1653
78 - L2474015-01 0.7844
79 - L2474017-01 2.2755
80 - L2474018-01 0.5985
81 - CCV NO3 -0.0035
82 - CCV NO2 1.0179
83 - CCB -0.0026
84 - L2474051-01 0.1902
85 - L2474067-02 0.0179
86 - L2474146-01 0.0029
87 - L2474215-01 0.0297
Absorbance
Time (sec)
4750
4800
4850
4900
4950
5000
5050
5100
5150
5200
5250
5350
5400
5450
5550
5600
5650
5700
5750
5800
5850

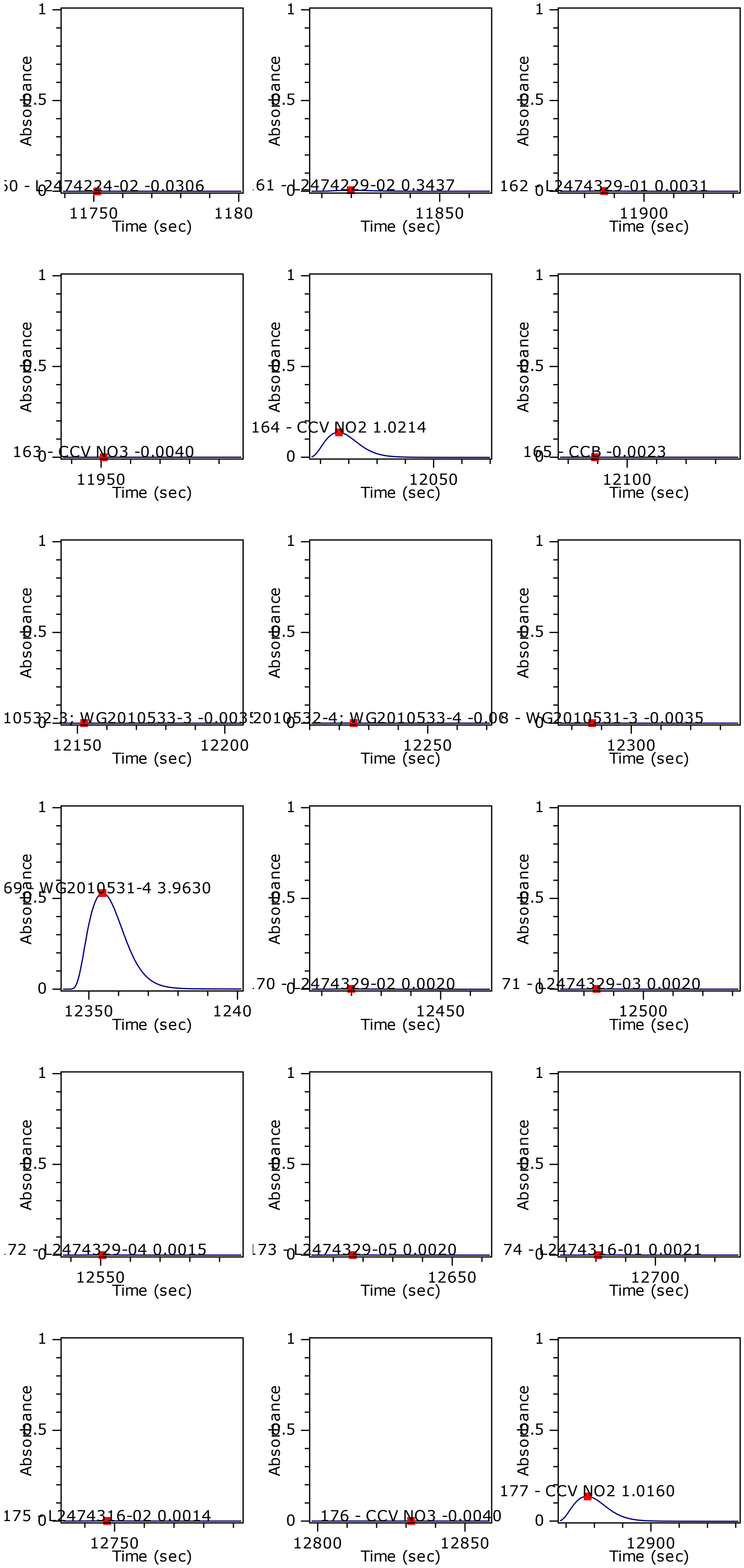

88 - L2474222-01 0.1125
89 - L2474223-01 0.2656
90 - L2474223-02 0.0023
91 - L2474224-02 0.0034
92 - L2474225-01 0.1395
93 - L2474225-02 0.0131
94 - CCV NO3 -0.0037
95 - CCV NO2 1.0216
96 - CCB -0.0027
7 - L2473872-01 0.0047
3 - WG2010480-3 -0.0017
9 - WG2010480-4 0.0182
00 - L2473839-01 0.0081
01 - L2473927-01 0.0010
02 - L2473927-02 0.0017
03 - L2474183-14 0.0036
4 - WG2010475-5 -0.0035
05 - WG2010475-6 -0.0018
Absorbance
Time (sec)

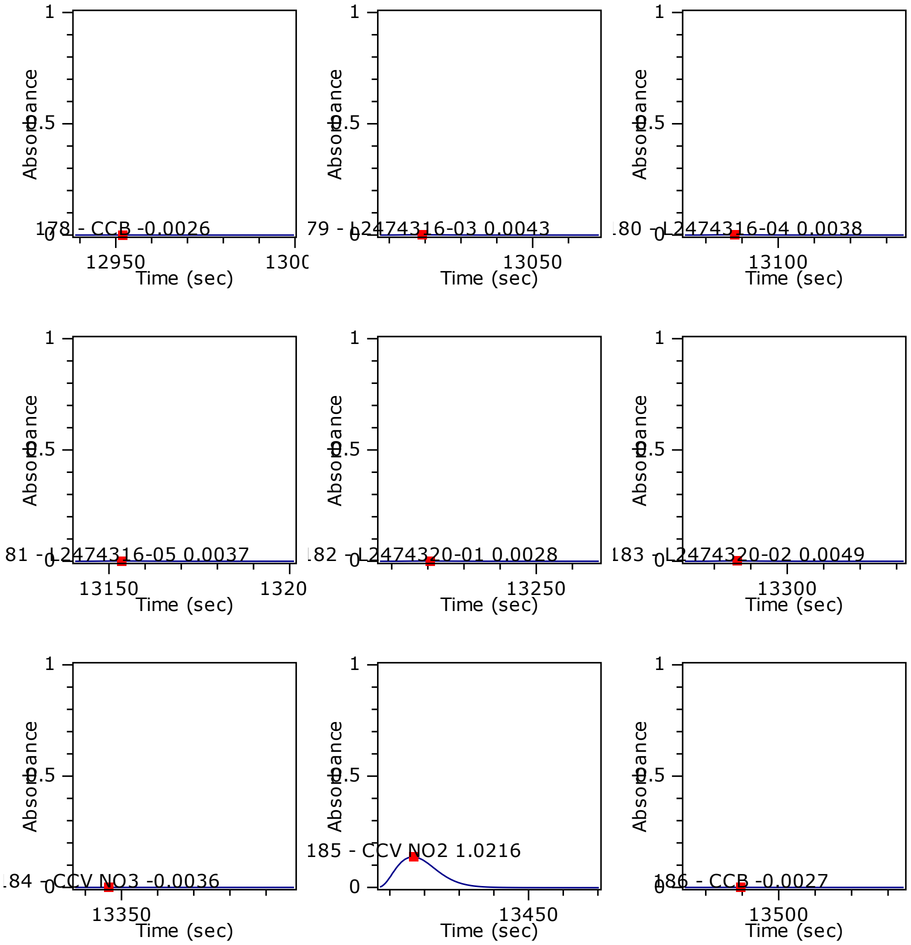

106 - L2474228-02 0.0059
107 - CCV NO3 -0.0040
108 - CCV NO2 1.0203
109 - CCB -0.0031
0 - WG2010475-3 -0.0008
11 - WG2010475-4 0.0034
12 - WG2010472-3 0.0070
13 - WG2010472-4 3.9255
114 - L2474229-02 0.3652
.15 - L2474270-01 0.0019
.16 - L2474270-02 0.0038
17 - L2474278-01 0.0014
18 - L2474278-02 0.0103
119 - L2474278-03 0.0029
120 - CCV NO3 -0.0039
121 - CCV NO2 1.0137
122 - CCB -0.0030
23 - L2474035-01 1.3613
Absorbance
Time (sec)


124 - L2474183-01 0.0200
Absorbance
Time (sec)
125 - WG2010481-3 0.0201
126 - WG2010481-4 0.0404
127 - L2474183-02 0.0096
128 - L2474183-03 0.0021
129 - L2474183-04 0.0046
130 - L2474183-05 0.0065
131 - L2474183-06 0.0018
132 - L2474183-07 0.0021
133 - CCV NO3 -0.0039
134 - CCV NO2 1.0239
135 - CCB -0.0025
136 - L2474183-08 0.0013
137 - L2474183-09 0.0278
138 - L2474183-10 0.0020
139 - L2474183-11 0.0029
140 - L2474183-12 0.0044
141 - L2474183-13 0.0020



Absorbance
Time (sec)
42 - L2474015-01 0.7884
9500
143 - L2474018-01 0.6029
9550
9600
144 - L2474223-02 0.0021
9650
145 - L2474225-01 0.1403
9700
146 - CCV NO3 -0.0035
9750
9800
147 - CCV NO2 1.0206
9850
148 - CCB -0.0028
9900
149 - L2474270-01 0.0016
9950
10000
150 - CCV NO3 -0.0039
10050
151 - CCV NO2 1.0108
10100
152 - CCB -0.0027
10200
153 - spacer -0
11300
154 - spacer -0.0017
11350
55 - L2474012-01 3.9603
11400
11450
56 - L2474014-01 2.1826
11500
57 - L2474017-01 2.2866
11550
58 - L2474222-01 0.0816
11650
59 - L2474223-01 0.2416
11700


50 - L2474224-02 -0.0306
161 - L2474229-02 0.3437
162 - L2474329-01 0.0031
163 - CCV NO3 -0.0040
164 - CCV NO2 1.0214
165 - CCB -0.0023
10532-3; WG2010533-3 -0.0035
2010532-4; WG2010533-4 -0.08
8 - WG2010531-3 -0.0035
69 - WG2010531-4 3.9630
170 - L2474329-02 0.0020
71 - L2474329-03 0.0020
172 - L2474329-04 0.0015
173 - L2474329-05 0.0020
74 - L2474316-01 0.0021
175 - L2474316-02 0.0014
176 - CCV NO3 -0.0040
177 - CCV NO2 1.0160
Absorbance
Time (sec)




Data Processing Parameters:

Channel: 1-NOx

| | |
|---|---|
| Response parameter | Peak Height |
| Filter Type | None |
| Filter Window | 3 |
| Enable Peak Window | False |
| Peak Window Start | 0 |
| Peak Window Stop | 0 |
| Enable Baseline Correction | False |
| Enable 2 Point Correction | False |
| Baseline Start | 0 |
| Baseline Stop | 0 |
| Point 2 Baseline Start | 0 |
| Point 2 Baseline Stop | 0 |
| Background Correction | Single Wavelength |
| Ref Wavelength 1 | 600 |
| Ref Wavelength 2 | 0 |

Channel: 2-NO2

| | |
|---|---|
| Response parameter | Peak Height |
| Filter Type | None |
| Filter Window | 3 |
| Enable Peak Window | False |
| Peak Window Start | 0 |
| Peak Window Stop | 0 |
| Enable Baseline Correction | False |
| Enable 2 Point Correction | False |

| | |
|---|---|
| Baseline Start | 0 |
| Baseline Stop | 0 |
| Point 2 Baseline Start | 0 |
| Point 2 Baseline Stop | 0 |
| Background Correction | Single Wavelength |
| Ref Wavelength 1 | 600 |
| Ref Wavelength 2 | 0 |

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 1.4
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 4.5
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2024-12-18T02:44:54

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

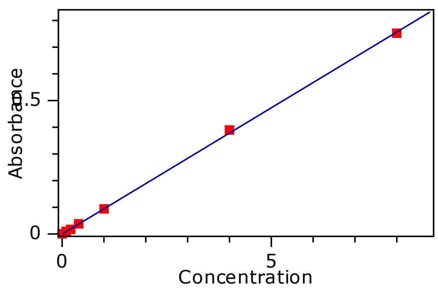
Graphical report generated by FIAsoft v3.1.10
Report generated on 2024-12-18 09:13:36
Data file (.dat): C:\FIAlab\Autosave Data\2024-12-18-091307.dat

Dataset Notes:

| | |
|---|---|
| Analyst | |

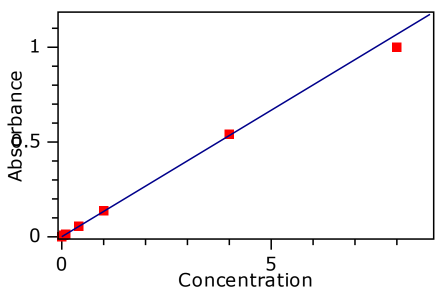
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:




Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: -0.00051
B: 0.09465
$R^2$: 0.99967
RSE(%): 1.87665
% Max. for OVR: 100

| InjNo | Name | Response | Known Conc. mg/L | Calc. Conc. mg/L | % Error | Time |
|---|---|---|---|---|---|---|
| 10001 | NOx 8.0ppm | 0.75190 | 8.00000 | 7.94910 | 0.64 | N/A |
| 10002 | NOx 4.0ppm | 0.38990 | 4.00000 | 4.12490 | 3.12 | N/A |
| 10003 | NOx 1.0ppm | 0.09320 | 1.00000 | 0.98950 | 1.05 | N/A |
| 10004 | NOx 0.4ppm | 0.03710 | 0.40000 | 0.39710 | 0.73 | N/A |
| 10005 | NOx 0.2ppm | 0.01820 | 0.20000 | 0.19750 | 1.26 | N/A |
| 10006 | NOx 0.1ppm | 0.00900 | 0.10000 | 0.10080 | 0.84 | N/A |
| 10007 | NOx 0.0ppm | 0.00010 | 0.00000 | 0.00690 | NA | N/A |




Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00058
B: 0.13344
$R^2$: 0.99858
RSE(%): 4.17398
% Max. for OVR: 100

| InjNo | Name | Response | Known Conc. mg/L | Calc. Conc. mg/L | % Error | Time |
|---|---|---|---|---|---|---|
| 10001 | Nitrite 8.0ppm | 0.99960 | 8.00000 | 7.48670 | 6.42 | N/A |
| 10002 | Nitrite 4.0ppm | 0.54040 | 4.00000 | 4.04560 | 1.14 | N/A |
| 10003 | Nitrite 1.0ppm | 0.13770 | 1.00000 | 1.02790 | 2.79 | N/A |
| 10004 | Nitrite 0.4ppm | 0.05620 | 0.40000 | 0.41670 | 4.18 | N/A |
| 10005 | Nitrite 0.1ppm | 0.01400 | 0.10000 | 0.10080 | 0.84 | N/A |
| 10006 | Nitrite 0.05ppm | 0.00720 | 0.05000 | 0.04940 | 1.10 | N/A |
| 10007 | Nitrite 0.0ppm | 0.00020 | 0.00000 | -0.00300 | 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 | ? | 0.0002 | 1 | 1 | 1 | 0.0078 | | 2024-12-18T07:33:27 |
| CCV NO3 | 2 | QC | 1 | 0.0907 | 1 | 1 | 1 | 0.9635 | | 2024-12-18T07:34:40 |
| CCV NO2 | 3 | QC | ? | 0.0914 | 1 | 1 | 1 | 0.9711 | | 2024-12-18T07:35:46 |
| CCB | 4 | QC | 0 | 0.0001 | 1 | 1 | 1 | 0.0066 | | 2024-12-18T07:36:55 |

| Name | Inj. No. | Type | Known Conc. mg/L | Response | MDF | ADF | Weight | Calc. Conc. mg/L | Flags | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| L2472567-01 | 5 | Unknown | ? | 0.0020 | 1 | 1 | 1 | 0.0267 | | 2024-12-18T07:38:03 |
| WG2010482-3 | 6 | Unknown | ? | 0.0013 | 1 | 1 | 1 | 0.0193 | | 2024-12-18T07:39:09 |
| WG2010482-4 | 7 | Unknown | ? | 0.3789 | 1 | 1 | 1 | 4.0084 | | 2024-12-18T07:40:14 |
| L2472567-02 | 8 | Unknown | ? | 0.0020 | 1 | 1 | 1 | 0.0262 | | 2024-12-18T07:41:20 |
| L2472567-03 | 9 | Unknown | ? | 0.0013 | 1 | 1 | 1 | 0.0189 | | 2024-12-18T07:42:26 |
| L2472509-01 | 10 | Unknown | ? | 0.0222 | 1 | 1 | 1 | 0.2401 | | 2024-12-18T07:43:31 |
| WG2010486-3 | 11 | Unknown | ? | 0.0222 | 1 | 1 | 1 | 0.2395 | | 2024-12-18T07:44:37 |
| WG2010486-4 | 12 | Unknown | ? | 0.4000 | 1 | 1 | 1 | 4.2309 | | 2024-12-18T07:45:42 |
| L2472509-02 | 13 | Unknown | ? | 0.0456 | 1 | 1 | 1 | 0.4870 | | 2024-12-18T07:46:48 |
| L2472709-01 | 14 | Unknown | ? | 0.0089 | 1 | 1 | 1 | 0.0989 | | 2024-12-18T07:47:53 |
| CCV NO3 | 15 | QC | 1 | 0.0909 | 1 | 1 | 1 | 0.9655 | | 2024-12-18T07:48:58 |
| CCV NO2 | 16 | QC | ? | 0.0917 | 1 | 1 | 1 | 0.9745 | | 2024-12-18T07:50:03 |
| CCB | 17 | QC | 0 | 0.0001 | 1 | 1 | 1 | 0.0068 | | 2024-12-18T07:51:12 |
| L2472709-02 | 18 | Unknown | ? | 0.0269 | 1 | 1 | 1 | 0.2897 | | 2024-12-18T07:52:22 |
| L2472954-01 | 19 | Unknown | ? | 0.0124 | 1 | 1 | 1 | 0.1362 | | 2024-12-18T07:53:30 |
| WG2010486-5 | 20 | Unknown | ? | 0.0124 | 1 | 1 | 1 | 0.1364 | | 2024-12-18T07:54:36 |
| WG2010486-6 | 21 | Unknown | ? | 0.3795 | 1 | 1 | 1 | 4.0142 | | 2024-12-18T07:55:43 |
| L2473059-01 | 22 | Unknown | ? | 0.0179 | 1 | 1 | 1 | 0.1943 | | 2024-12-18T07:56:49 |
| L2473067-01 | 23 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0156 | | 2024-12-18T07:57:55 |
| L2473069-01 | 24 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0164 | | 2024-12-18T07:59:01 |
| L2473074-01 | 25 | Unknown | ? | 0.0011 | 1 | 1 | 1 | 0.0173 | | 2024-12-18T08:00:07 |
| L2473079-02 | 26 | Unknown | ? | 0.0419 | 1 | 1 | 1 | 0.4479 | | 2024-12-18T08:01:13 |
| L2473092-02 | 27 | Unknown | ? | 0.0186 | 1 | 1 | 1 | 0.2023 | | 2024-12-18T08:02:18 |
| CCV NO3 | 28 | QC | 1 | 0.0904 | 1 | 1 | 1 | 0.9605 | | 2024-12-18T08:03:23 |
| CCV NO2 | 29 | QC | ? | 0.0907 | 1 | 1 | 1 | 0.9633 | | 2024-12-18T08:04:29 |
| CCB | 30 | QC | 0 | 0.0001 | 1 | 1 | 1 | 0.0067 | | 2024-12-18T08:05:37 |
| L2473457-01 | 31 | Unknown | ? | 0.0742 | 1 | 1 | 1 | 0.7895 | | 2024-12-18T08:06:47 |
| L2473457-02 | 32 | Unknown | ? | 0.1664 | 1 | 1 | 1 | 1.7633 | | 2024-12-18T08:07:55 |
| L2472515-01 | 33 | Unknown | ? | 0.0173 | 1 | 1 | 1 | 0.1880 | | 2024-12-18T08:09:00 |
| WG2010487-3 | 34 | Unknown | ? | 0.0175 | 1 | 1 | 1 | 0.1905 | | 2024-12-18T08:10:06 |
| WG2010487-4 | 35 | Unknown | ? | 0.3838 | 1 | 1 | 1 | 4.0598 | | 2024-12-18T08:11:12 |
| L2472515-02 | 36 | Unknown | ? | 0.0183 | 1 | 1 | 1 | 0.1985 | | 2024-12-18T08:12:18 |
| L2472518-01 | 37 | Unknown | ? | 0.0193 | 1 | 1 | 1 | 0.2088 | | 2024-12-18T08:13:25 |

| Name | Inj. No. | Type | Known Conc. mg/L | Response | MDF | ADF | Weight | Calc. Conc. mg/L | Flags | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| L2472518-02 | 38 | Unknown | ? | 0.5123 | 1 | 1 | 1 | 5.4180 | | 2024-12-18T08:14:32 |
| L2472652-07 | 39 | Unknown | ? | 0.0095 | 1 | 1 | 1 | 0.1053 | | 2024-12-18T08:15:39 |
| L2474326-01 | 40 | Unknown | ? | 0.0088 | 1 | 1 | 1 | 0.0981 | | 2024-12-18T08:16:45 |
| CCV NO3 | 41 | QC | 1 | 0.0902 | 1 | 1 | 1 | 0.9587 | | 2024-12-18T08:17:50 |
| CCV NO2 | 42 | QC | ? | 0.0911 | 1 | 1 | 1 | 0.9675 | | 2024-12-18T08:18:55 |
| CCB | 43 | QC | 0 | 0.0001 | 1 | 1 | 1 | 0.0065 | | 2024-12-18T08:20:02 |
| L2474326-02 | 44 | Unknown | ? | 0.0008 | 1 | 1 | 1 | 0.0136 | | 2024-12-18T08:21:12 |
| L2474326-03 | 45 | Unknown | ? | 0.0011 | 1 | 1 | 1 | 0.0171 | | 2024-12-18T08:22:17 |
| L2474326-04 | 46 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0159 | | 2024-12-18T08:23:24 |
| L2472612-01 | 47 | Unknown | ? | 0.7486 | 1 | 1 | 1 | 7.9140 | | 2024-12-18T08:24:30 |
| WG2010488-3 | 48 | Unknown | ? | 0.7441 | 1 | 1 | 1 | 7.8667 | | 2024-12-18T08:25:36 |
| WG2010488-4 | 49 | Unknown | ? | 1.0215 | 1 | 1 | 1 | 10.7977 | OVR | 2024-12-18T08:26:42 |
| L2472632-01 | 50 | Unknown | ? | 0.0794 | 1 | 1 | 1 | 0.8441 | | 2024-12-18T08:27:48 |
| L2472633-01 | 51 | Unknown | ? | 0.1955 | 1 | 1 | 1 | 2.0703 | | 2024-12-18T08:28:54 |
| L2472686-01 | 52 | Unknown | ? | 0.0430 | 1 | 1 | 1 | 0.4601 | | 2024-12-18T08:30:00 |
| L2474154-01 | 53 | Unknown | ? | 0.0001 | 1 | 1 | 1 | 0.0060 | | 2024-12-18T08:31:05 |
| CCV NO3 | 54 | QC | 1 | 0.0901 | 1 | 1 | 1 | 0.9573 | | 2024-12-18T08:32:10 |
| CCV NO2 | 55 | QC | ? | 0.0911 | 1 | 1 | 1 | 0.9676 | | 2024-12-18T08:33:16 |
| CCB | 56 | QC | 0 | 0.0002 | 1 | 1 | 1 | 0.0072 | | 2024-12-18T08:34:26 |
| L2472632-01 | 57 | Unknown | ? | 0.0815 | 1 | 1 | 1 | 0.8659 | | 2024-12-18T08:35:36 |
| CCV NO3 | 58 | QC | 1 | 0.0907 | 1 | 1 | 1 | 0.9635 | | 2024-12-18T08:36:43 |
| CCV NO2 | 59 | QC | ? | 0.0919 | 1 | 1 | 1 | 0.9765 | | 2024-12-18T08:37:48 |
| CCB | 60 | QC | 0 | 0.0001 | 1 | 1 | 1 | 0.0064 | | 2024-12-18T08:38:58 |
| _spacer_ | 61 | Unknown | ? | 0.0000 | 1 | 1 | 1 | 0.0055 | | 2024-12-18T08:42:54 |
| _spacer_ | 62 | Unknown | ? | 0.0004 | 1 | 1 | 1 | 0.0095 | | 2024-12-18T08:44:21 |
| WG2010488-4 | 63 | Unknown | ? | 0.1111 | 1 | 10 | 1 | 11.7889 | | 2024-12-18T08:45:26 |
| CCV NO3 | 64 | QC | 1 | 0.0906 | 1 | 1 | 1 | 0.9625 | | 2024-12-18T08:46:32 |
| CCV NO2 | 65 | QC | ? | 0.0915 | 1 | 1 | 1 | 0.9719 | | 2024-12-18T08:47:37 |
| CCB | 66 | QC | 0 | 0.0001 | 1 | 1 | 1 | 0.0065 | | 2024-12-18T08:48:46 |

Channel: 2-NO2

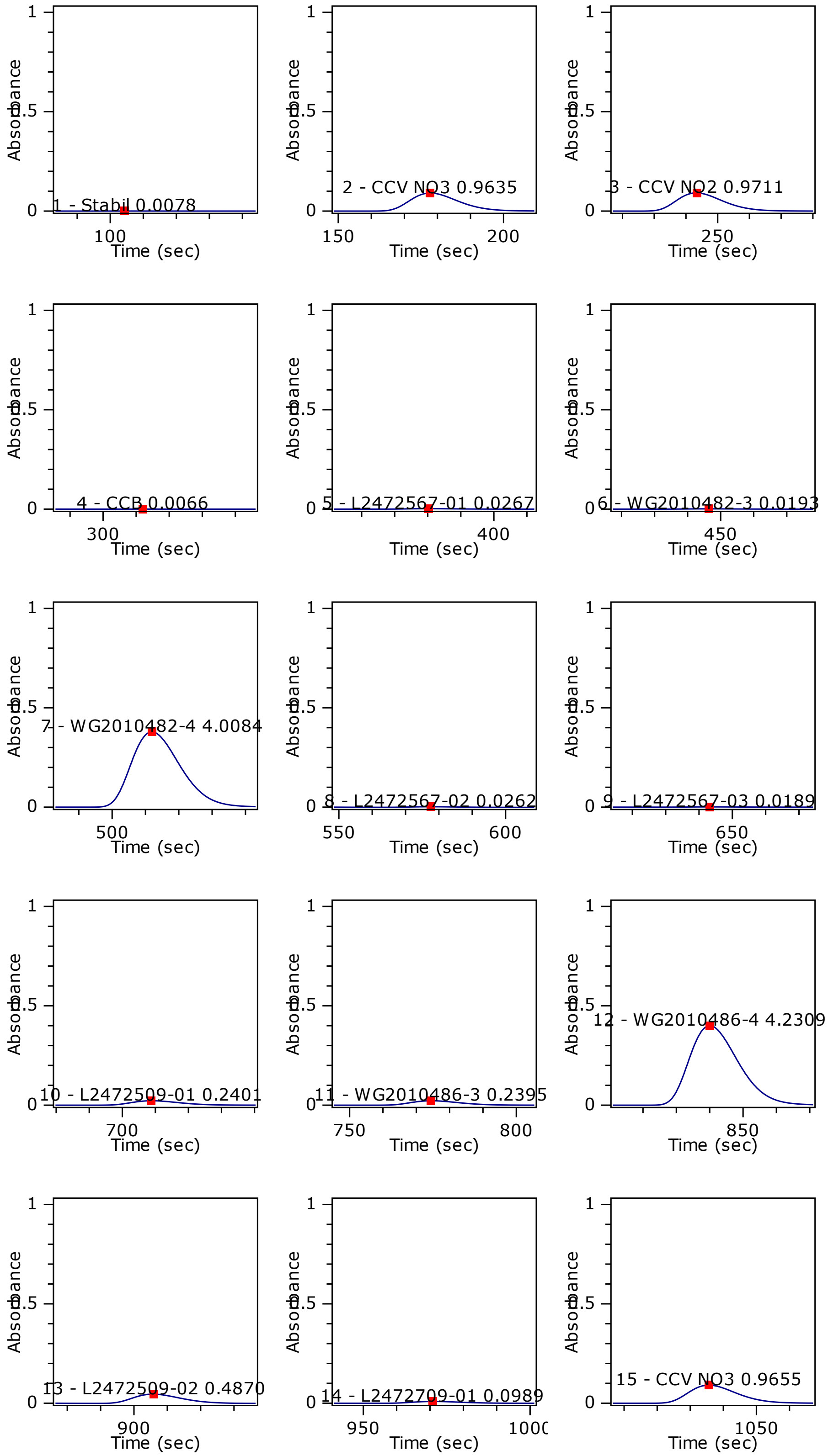
| Name | Inj. No. | Type | Known Conc. mg/L | Response | MDF | ADF | Weight | Calc. Conc. mg/L | Flags | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| Stabil | 1 | Unknown | ? | 0.0002 | 1 | 1 | 1 | -0.0031 | | 2024-12-18T07:33:12 |
| CCV NO3 | 2 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0038 | | 2024-12- |

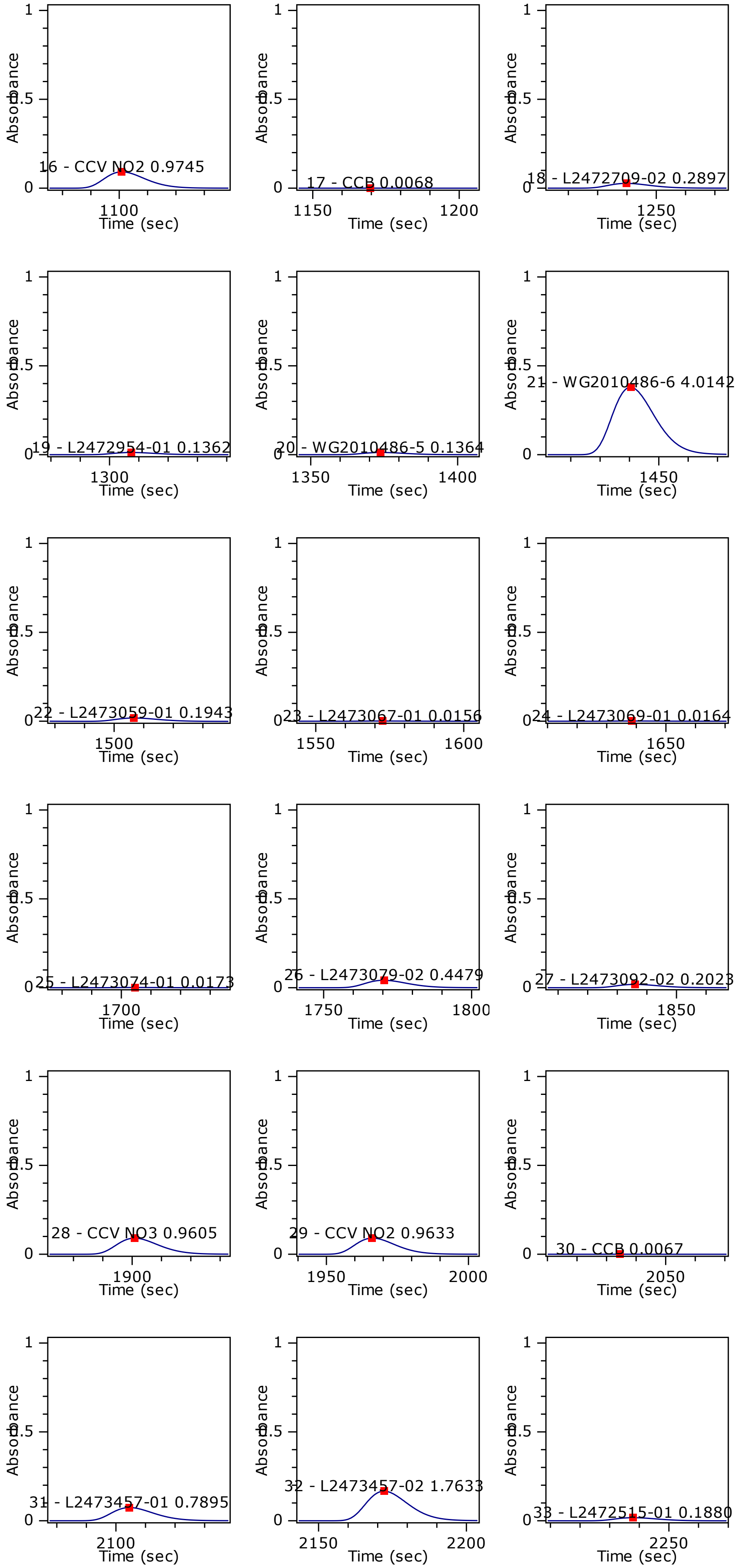
| Name | Inj. No. | Type | Known Conc. mg/L | Response | MDF | ADF | Weight | Calc. Conc. mg/L | Flags | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | 18T07:34:23 |
| CCV NO2 | 3 | QC | 1 | 0.1374 | 1 | 1 | 1 | 1.0256 | | 2024-12-18T07:35:31 |
| CCB | 4 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0032 | | 2024-12-18T07:36:41 |
| L2472567-01 | 5 | Unknown | ? | 0.0015 | 1 | 1 | 1 | 0.0067 | | 2024-12-18T07:37:47 |
| WG2010482-3 | 6 | Unknown | ? | 0.0006 | 1 | 1 | 1 | 0.0001 | | 2024-12-18T07:38:54 |
| WG2010482-4 | 7 | Unknown | ? | 0.0020 | 1 | 1 | 1 | 0.0108 | | 2024-12-18T07:39:59 |
| L2472567-02 | 8 | Unknown | ? | 0.0009 | 1 | 1 | 1 | 0.0024 | | 2024-12-18T07:41:05 |
| L2472567-03 | 9 | Unknown | ? | 0.0009 | 1 | 1 | 1 | 0.0025 | | 2024-12-18T07:42:11 |
| L2472509-01 | 10 | Unknown | ? | 0.0003 | 1 | 1 | 1 | -0.0024 | | 2024-12-18T07:43:19 |
| WG2010486-3 | 11 | Unknown | ? | 0.0003 | 1 | 1 | 1 | -0.0023 | | 2024-12-18T07:44:23 |
| WG2010486-4 | 12 | Unknown | ? | 0.0003 | 1 | 1 | 1 | -0.0018 | | 2024-12-18T07:45:27 |
| L2472509-02 | 13 | Unknown | ? | 0.0012 | 1 | 1 | 1 | 0.0047 | | 2024-12-18T07:46:33 |
| L2472709-01 | 14 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0033 | | 2024-12-18T07:47:38 |
| CCV NO3 | 15 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0034 | | 2024-12-18T07:48:51 |
| CCV NO2 | 16 | QC | 1 | 0.1380 | 1 | 1 | 1 | 1.0301 | | 2024-12-18T07:49:49 |
| CCB | 17 | QC | 0 | 0.0003 | 1 | 1 | 1 | -0.0020 | | 2024-12-18T07:50:58 |
| L2472709-02 | 18 | Unknown | ? | 0.0011 | 1 | 1 | 1 | 0.0037 | | 2024-12-18T07:52:08 |
| L2472954-01 | 19 | Unknown | ? | 0.0011 | 1 | 1 | 1 | 0.0040 | | 2024-12-18T07:53:15 |
| WG2010486-5 | 20 | Unknown | ? | 0.0011 | 1 | 1 | 1 | 0.0038 | | 2024-12-18T07:54:23 |
| WG2010486-6 | 21 | Unknown | ? | 0.0012 | 1 | 1 | 1 | 0.0050 | | 2024-12-18T07:55:29 |
| L2473059-01 | 22 | Unknown | ? | 0.0009 | 1 | 1 | 1 | 0.0020 | | 2024-12-18T07:56:34 |
| L2473067-01 | 23 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0032 | | 2024-12-18T07:57:43 |
| L2473069-01 | 24 | Unknown | ? | 0.0011 | 1 | 1 | 1 | 0.0035 | | 2024-12-18T07:58:46 |
| L2473074-01 | 25 | Unknown | ? | 0.0011 | 1 | 1 | 1 | 0.0037 | | 2024-12-18T07:59:52 |
| L2473079-02 | 26 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0039 | | 2024-12-18T08:00:49 |
| L2473092-02 | 27 | Unknown | ? | 0.0000 | 1 | 1 | 1 | -0.0042 | | 2024-12-18T08:02:07 |
| CCV NO3 | 28 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0035 | | 2024-12-18T08:03:14 |
| CCV NO2 | 29 | QC | 1 | 0.1373 | 1 | 1 | 1 | 1.0247 | | 2024-12-18T08:04:14 |
| CCB | 30 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0025 | | 2024-12-18T08:05:25 |
| L2473457-01 | 31 | Unknown | ? | 0.0059 | 1 | 1 | 1 | 0.0399 | | 2024-12-18T08:06:32 |
| L2473457-02 | 32 | Unknown | ? | 0.0099 | 1 | 1 | 1 | 0.0702 | | 2024-12-18T08:07:40 |
| L2472515-01 | 33 | Unknown | ? | 0.0081 | 1 | 1 | 1 | 0.0560 | | 2024-12-18T08:08:45 |
| WG2010487-3 | 34 | Unknown | ? | 0.0080 | 1 | 1 | 1 | 0.0559 | | 2024-12-18T08:09:51 |

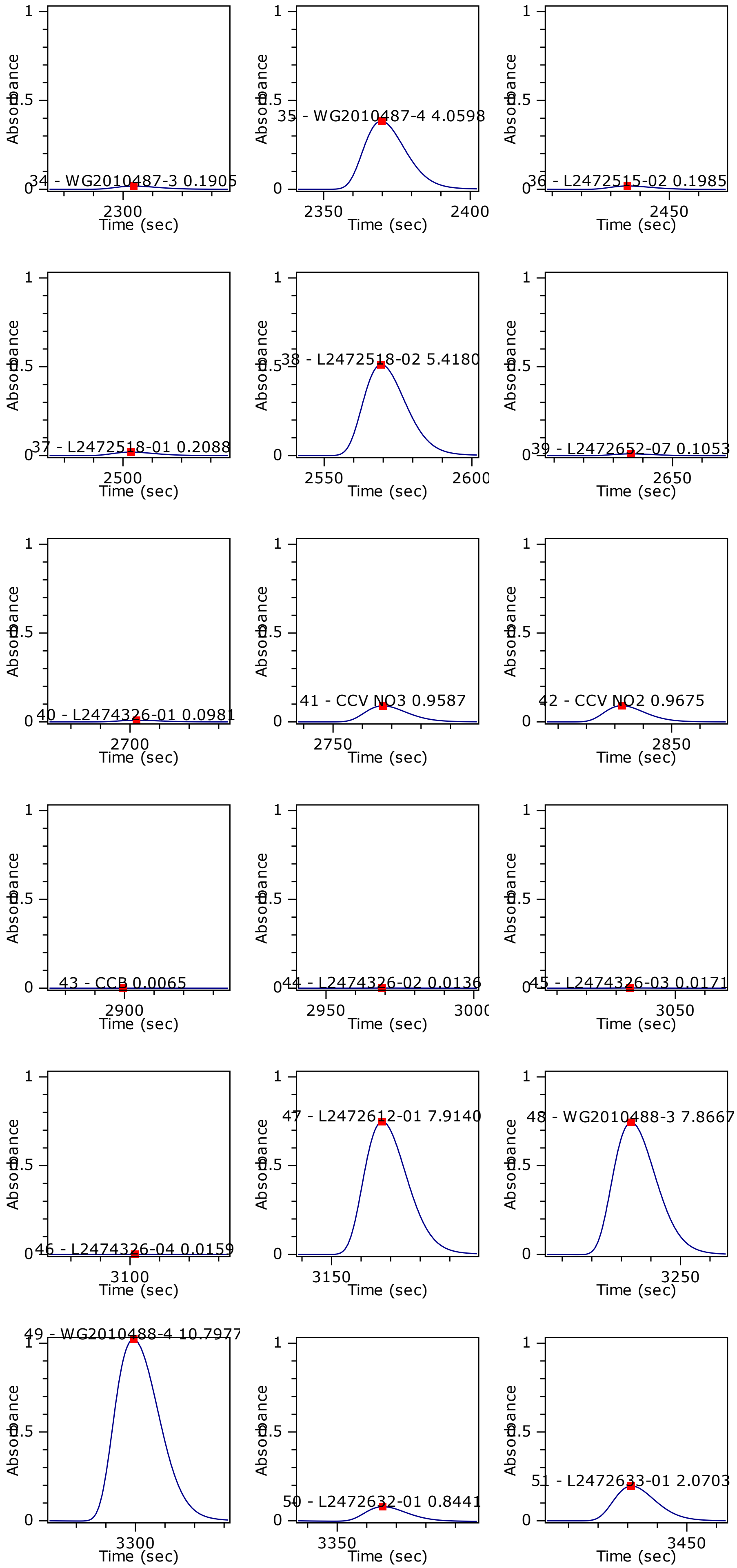
| Name | Inj. No. | Type | Known Conc. mg/L | Response | MDF | ADF | Weight | Calc. Conc. mg/L | Flags | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| WG2010487-4 | 35 | Unknown | ? | 0.0079 | 1 | 1 | 1 | 0.0550 | | 2024-12-18T08:10:57 |
| L2472515-02 | 36 | Unknown | ? | 0.0064 | 1 | 1 | 1 | 0.0437 | | 2024-12-18T08:12:04 |
| L2472518-01 | 37 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0034 | | 2024-12-18T08:13:11 |
| L2472518-02 | 38 | Unknown | ? | 0.0200 | 1 | 1 | 1 | 0.1452 | | 2024-12-18T08:14:17 |
| L2472652-07 | 39 | Unknown | ? | 0.0026 | 1 | 1 | 1 | 0.0148 | | 2024-12-18T08:15:24 |
| L2474326-01 | 40 | Unknown | ? | 0.0017 | 1 | 1 | 1 | 0.0085 | | 2024-12-18T08:16:30 |
| CCV NO3 | 41 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0035 | | 2024-12-18T08:17:35 |
| CCV NO2 | 42 | QC | 1 | 0.1380 | 1 | 1 | 1 | 1.0301 | | 2024-12-18T08:18:40 |
| CCB | 43 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0029 | | 2024-12-18T08:19:51 |
| L2474326-02 | 44 | Unknown | ? | 0.0008 | 1 | 1 | 1 | 0.0015 | | 2024-12-18T08:20:57 |
| L2474326-03 | 45 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0029 | | 2024-12-18T08:22:03 |
| L2474326-04 | 46 | Unknown | ? | 0.0009 | 1 | 1 | 1 | 0.0027 | | 2024-12-18T08:23:09 |
| L2472612-01 | 47 | Unknown | ? | 0.0571 | 1 | 1 | 1 | 0.4237 | | 2024-12-18T08:24:15 |
| WG2010488-3 | 48 | Unknown | ? | 0.0572 | 1 | 1 | 1 | 0.4247 | | 2024-12-18T08:25:21 |
| WG2010488-4 | 49 | Unknown | ? | 0.0551 | 1 | 1 | 1 | 0.4085 | | 2024-12-18T08:26:27 |
| L2472632-01 | 50 | Unknown | ? | 0.0008 | 1 | 1 | 1 | 0.0013 | | 2024-12-18T08:27:34 |
| L2472633-01 | 51 | Unknown | ? | 0.0034 | 1 | 1 | 1 | 0.0211 | | 2024-12-18T08:28:39 |
| L2472686-01 | 52 | Unknown | ? | 0.0013 | 1 | 1 | 1 | 0.0052 | | 2024-12-18T08:29:44 |
| L2474154-01 | 53 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0037 | | 2024-12-18T08:30:50 |
| CCV NO3 | 54 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0039 | | 2024-12-18T08:31:56 |
| CCV NO2 | 55 | QC | 1 | 0.1369 | 1 | 1 | 1 | 1.0217 | | 2024-12-18T08:33:01 |
| CCB | 56 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0026 | | 2024-12-18T08:34:12 |
| L2472632-01 | 57 | Unknown | ? | 0.0007 | 1 | 1 | 1 | 0.0012 | | 2024-12-18T08:35:21 |
| CCV NO3 | 58 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0036 | | 2024-12-18T08:36:25 |
| CCV NO2 | 59 | QC | 1 | 0.1370 | 1 | 1 | 1 | 1.0224 | | 2024-12-18T08:37:33 |
| CCB | 60 | QC | 0 | 0.0004 | 1 | 1 | 1 | -0.0017 | | 2024-12-18T08:38:44 |
| _spacer_ | 61 | Unknown | ? | 0.0001 | 1 | 1 | 1 | -0.0039 | | 2024-12-18T08:43:03 |
| _spacer_ | 62 | Unknown | ? | 0.0005 | 1 | 1 | 1 | -0.0006 | | 2024-12-18T08:44:04 |
| WG2010488-4 | 63 | Unknown | ? | 0.0056 | 1 | 10 | 1 | 0.3772 | | 2024-12-18T08:45:13 |
| CCV NO3 | 64 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0038 | | 2024-12-18T08:46:20 |
| CCV NO2 | 65 | QC | 1 | 0.1353 | 1 | 1 | 1 | 1.0097 | | 2024-12-18T08:47:22 |
| CCB | 66 | QC | 0 | 0.0003 | 1 | 1 | 1 | -0.0019 | | 2024-12-18T08:48:33 |

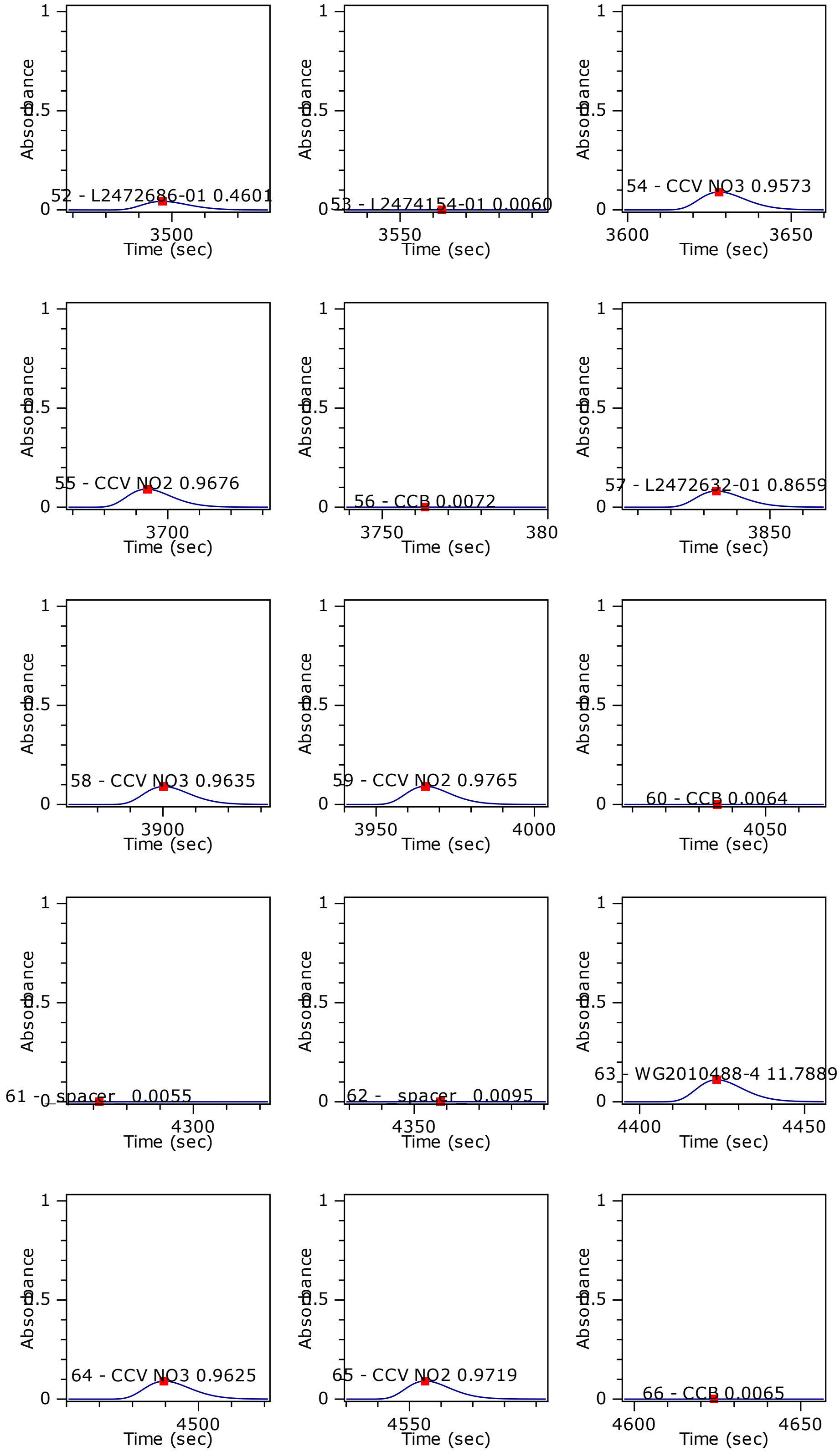
Peaks:

Channel: 1-NOx

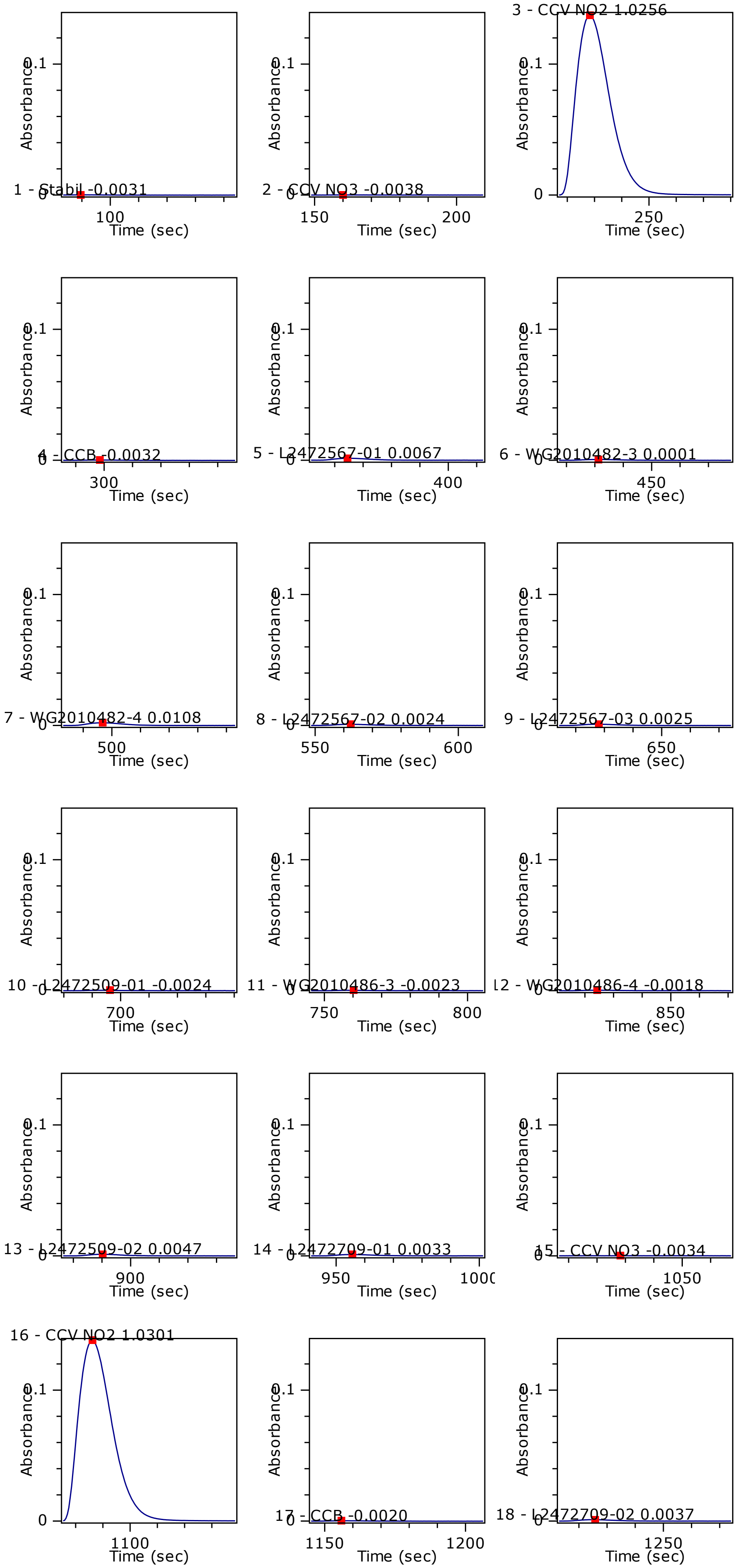


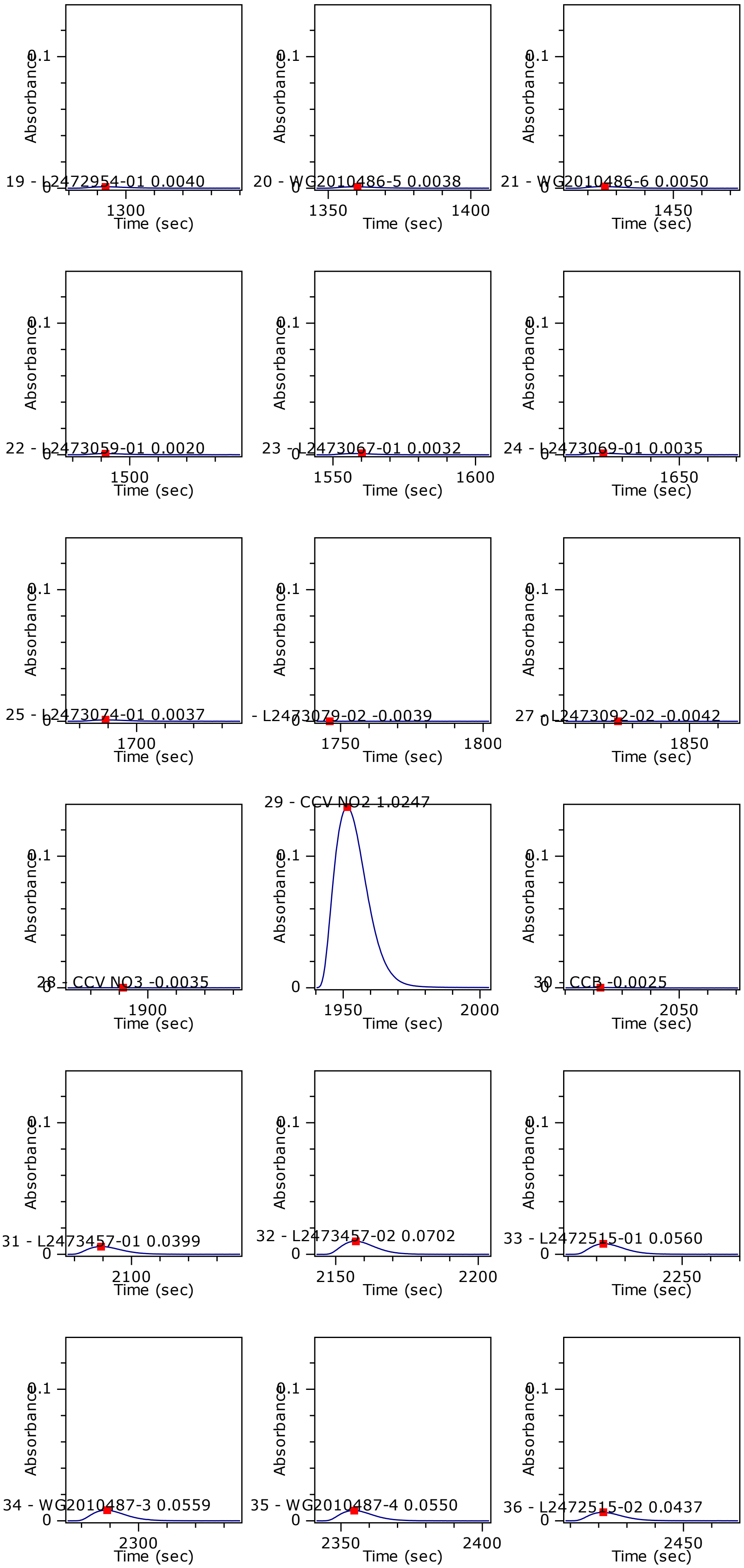

16 - CCV NO2 0.9745
17 - CCB 0.0068
18 - L2472709-02 0.2897
19 - L2472954-01 0.1362
20 - WG2010486-5 0.1364
21 - WG2010486-6 4.0142
22 - L2473059-01 0.1943
23 - L2473067-01 0.0156
24 - L2473069-01 0.0164
25 - L2473074-01 0.0173
26 - L2473079-02 0.4479
27 - L2473092-02 0.2023
28 - CCV NO3 0.9605
29 - CCV NO2 0.9633
30 - CCB 0.0067
31 - L2473457-01 0.7895
32 - L2473457-02 1.7633
33 - L2472515-01 0.1880
Absorbance
Time (sec)

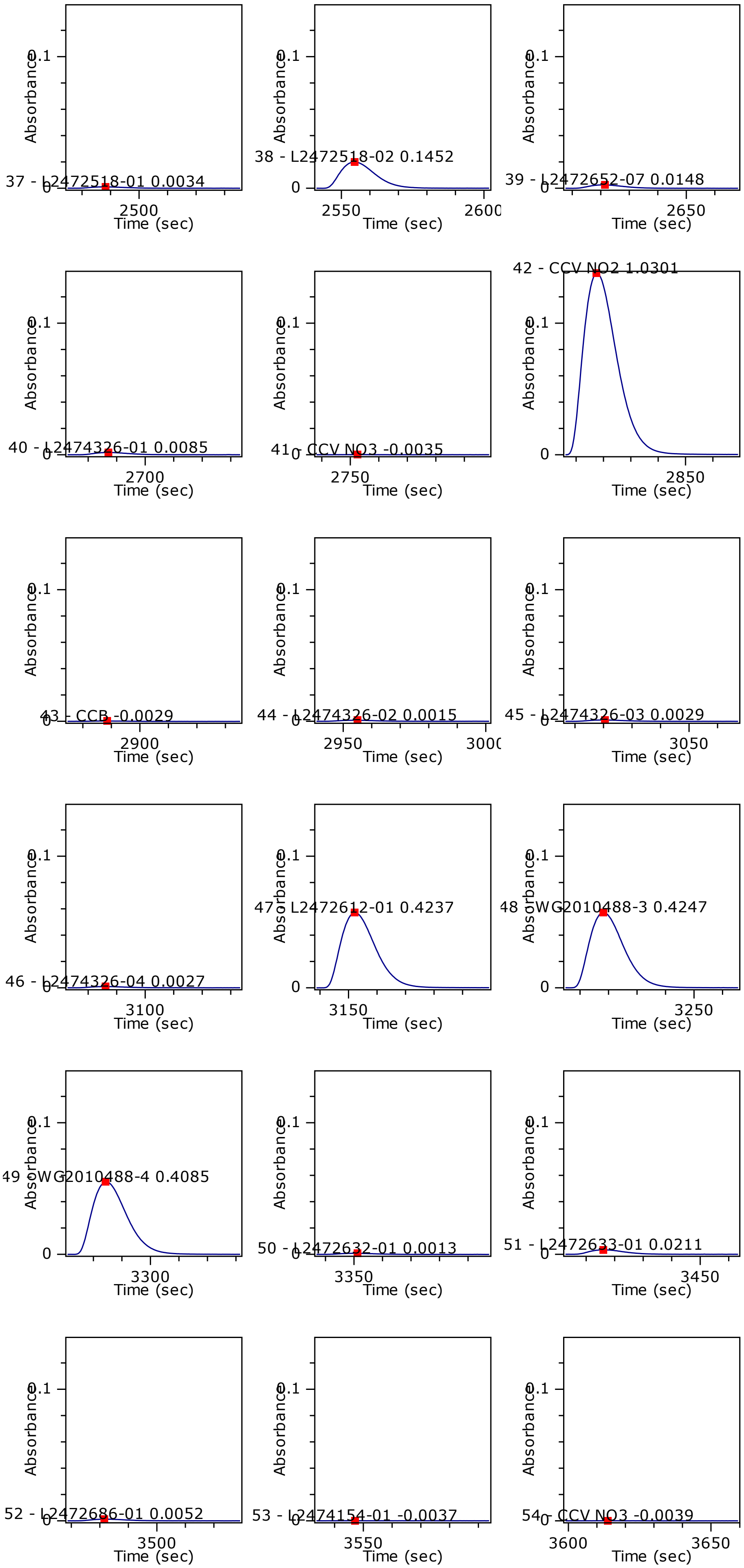

34 - WG2010487-3 0.1905
35 - WG2010487-4 4.0598
36 - L2472515-02 0.1985
37 - L2472518-01 0.2088
38 - L2472518-02 5.4180
39 - L2472652-07 0.1053
40 - L2474326-01 0.0981
41 - CCV NO3 0.9587
42 - CCV NO2 0.9675
43 - CCB 0.0065
44 - L2474326-02 0.0136
45 - L2474326-03 0.0171
46 - L2474326-04 0.0159
47 - L2472612-01 7.9140
48 - WG2010488-3 7.8667
49 - WG2010488-4 10.7977
50 - L2472632-01 0.8441
51 - L2472633-01 2.0703
Absorbance
Time (sec)




Channel: 2-NO2


1 - Stabil -0.0031
2 - CCV NO3 -0.0038
3 - CCV NO2 1.0256
4 - CCB -0.0032
5 - L2472567-01 0.0067
6 - WG2010482-3 0.0001
7 - WG2010482-4 0.0108
8 - L2472567-02 0.0024
9 - L2472567-03 0.0025
10 - L2472509-01 -0.0024
11 - WG2010486-3 -0.0023
12 - WG2010486-4 -0.0018
13 - L2472509-02 0.0047
14 - L2472709-01 0.0033
15 - CCV NO3 -0.0034
16 - CCV NO2 1.0301
17 - CCB -0.0020
18 - L2472709-02 0.0037
Absorbance
Time (sec)


19 - L2472954-01 0.0040
Absorbance
0.1
0
1300
Time (sec)
20 - WG2010486-5 0.0038
Absorbance
0.1
0
1350
1400
Time (sec)
21 - WG2010486-6 0.0050
Absorbance
0.1
0
1450
Time (sec)
22 - L2473059-01 0.0020
Absorbance
0.1
0
1500
Time (sec)
23 - L2473067-01 0.0032
Absorbance
0.1
0
1550
1600
Time (sec)
24 - L2473069-01 0.0035
Absorbance
0.1
0
1650
Time (sec)
25 - L2473074-01 0.0037
Absorbance
0.1
0
1700
Time (sec)
- L2473079-02 -0.0039
Absorbance
0.1
0
1750
1800
Time (sec)
27 - L2473092-02 -0.0042
Absorbance
0.1
0
1850
Time (sec)
28 - CCV NO3 -0.0035
Absorbance
0.1
0
1900
Time (sec)
29 - CCV NO2 1.0247
Absorbance
0.1
0
1950
2000
Time (sec)
30 - CCB -0.0025
Absorbance
0.1
0
2050
Time (sec)
31 - L2473457-01 0.0399
Absorbance
0.1
0
2100
Time (sec)
32 - L2473457-02 0.0702
Absorbance
0.1
0
2150
2200
Time (sec)
33 - L2472515-01 0.0560
Absorbance
0.1
0
2250
Time (sec)
34 - WG2010487-3 0.0559
Absorbance
0.1
0
2300
Time (sec)
35 - WG2010487-4 0.0550
Absorbance
0.1
0
2350
2400
Time (sec)
36 - L2472515-02 0.0437
Absorbance
0.1
0
2450
Time (sec)


37 - L2472518-01 0.0034
38 - L2472518-02 0.1452
39 - L2472652-07 0.0148
40 - L2474326-01 0.0085
41 - CCV NO3 -0.0035
42 - CCV NO2 1.0301
43 - CCB -0.0029
44 - L2474326-02 0.0015
45 - L2474326-03 0.0029
46 - L2474326-04 0.0027
47 - L2472612-01 0.4237
48 - WG2010488-3 0.4247
49 - WG2010488-4 0.4085
50 - L2472632-01 0.0013
51 - L2472633-01 0.0211
52 - L2472686-01 0.0052
53 - L2474154-01 -0.0037
54 - CCV NO3 -0.0039
Absorbance
Time (sec)
0.1
0
2500
2550
2600
2650
2700
2750
2850
2900
2950
3000
3050
3100
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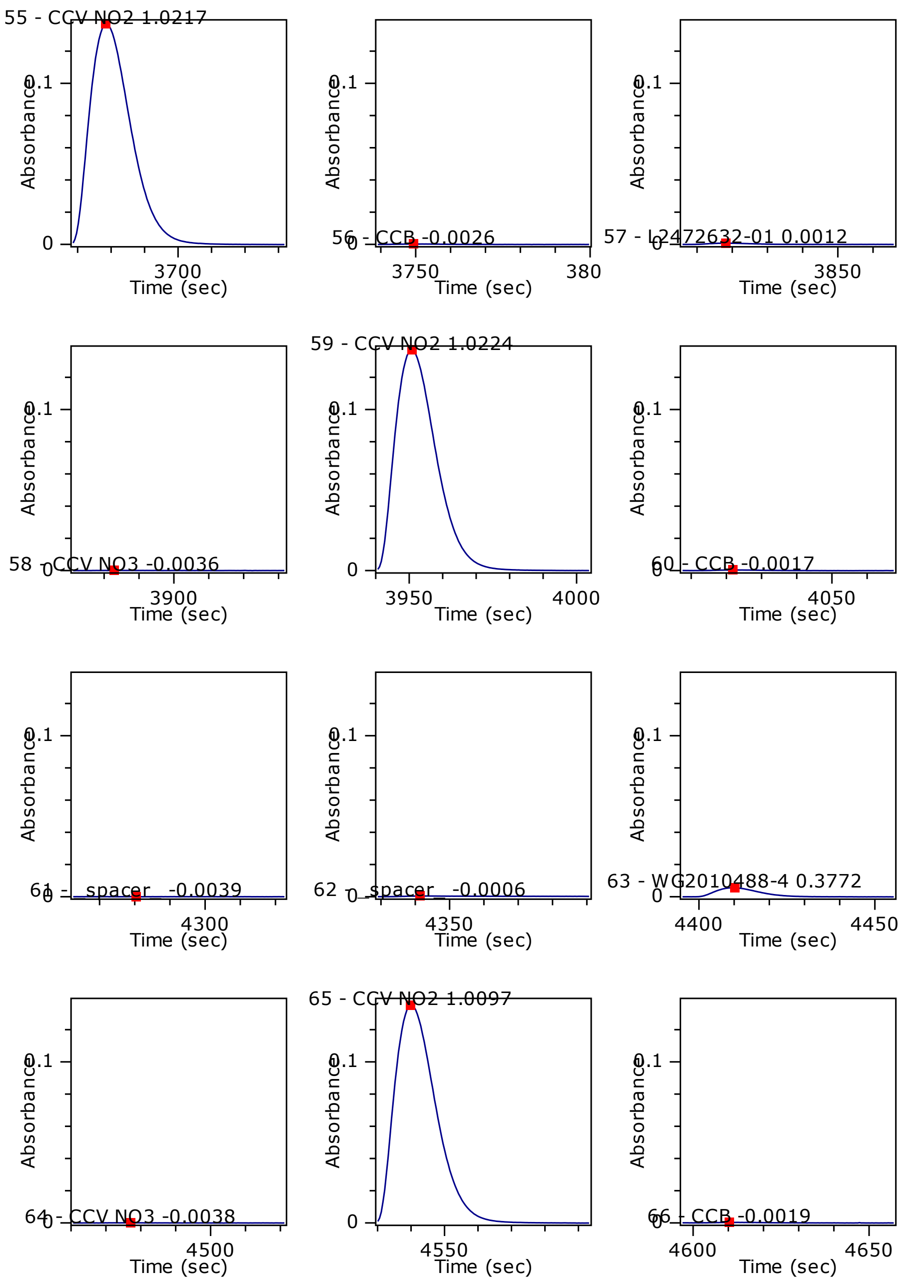
3500
3550
3600
3650




Data Processing Parameters:

Channel: 1-NOx

| | |
|---|---|
| Response parameter | Peak Height |
| Filter Type | None |
| Filter Window | 3 |
| Enable Peak Window | False |
| Peak Window Start | 0 |
| Peak Window Stop | 0 |
| Enable Baseline Correction | False |
| Enable 2 Point Correction | False |
| Baseline Start | 0 |
| Baseline Stop | 0 |
| Point 2 Baseline Start | 0 |
| Point 2 Baseline Stop | 0 |
| Background Correction | Single Wavelength |
| Ref Wavelength 1 | 600 |
| Ref Wavelength 2 | 0 |

Channel: 2-NO2

| | |
|---|---|
| Response parameter | Peak Height |
| Filter Type | None |
| Filter Window | 3 |
| Enable Peak Window | False |
| Peak Window Start | 0 |
| Peak Window Stop | 0 |
| Enable Baseline Correction | False |
| Enable 2 Point Correction | False |
| Baseline Start | 0 |
| Baseline Stop | 0 |
| Point 2 Baseline Start | 0 |
| Point 2 Baseline Stop | 0 |
| Background Correction | Single Wavelength |
| Ref Wavelength 1 | 600 |
| Ref Wavelength 2 | 0 |

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 1.4
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 4.5
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2024-12-18T07:31:43

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

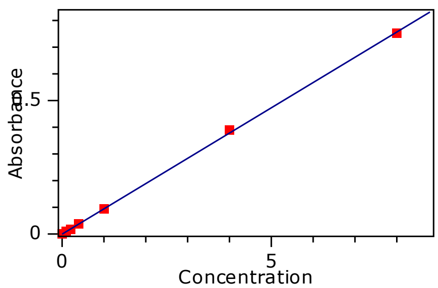
Graphical report generated by FIAsoft v3.1.10
Report generated on 2024-12-18 09:42:58
Data file (.dat): C:\FIAlab\Autosave Data\2024-12-18-094229.dat

Dataset Notes:

| | |
|---|---|
| Analyst | |

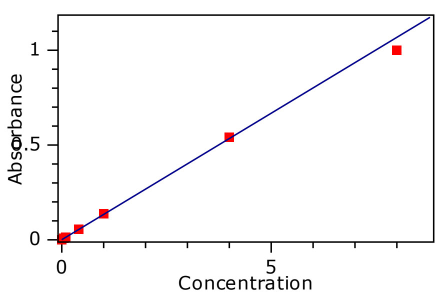
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:




Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: -0.00051
B: 0.09465
$R^2$: 0.99967
RSE(%): 1.87665
% Max. for OVR: 100

| InjNo | Name | Response | Known Conc. mg/L | Calc. Conc. mg/L | % Error | Time |
|---|---|---|---|---|---|---|
| 10001 | NOx 8.0ppm | 0.75190 | 8.00000 | 7.94910 | 0.64 | N/A |
| 10002 | NOx 4.0ppm | 0.38990 | 4.00000 | 4.12490 | 3.12 | N/A |
| 10003 | NOx 1.0ppm | 0.09320 | 1.00000 | 0.98950 | 1.05 | N/A |
| 10004 | NOx 0.4ppm | 0.03710 | 0.40000 | 0.39710 | 0.73 | N/A |
| 10005 | NOx 0.2ppm | 0.01820 | 0.20000 | 0.19750 | 1.26 | N/A |
| 10006 | NOx 0.1ppm | 0.00900 | 0.10000 | 0.10080 | 0.84 | N/A |
| 10007 | NOx 0.0ppm | 0.00010 | 0.00000 | 0.00690 | NA | N/A |




Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00058
B: 0.13344
$R^2$: 0.99858
RSE(%): 4.17398
% Max. for OVR: 100

| InjNo | Name | Response | Known Conc. mg/L | Calc. Conc. mg/L | % Error | Time |
|---|---|---|---|---|---|---|
| 10001 | Nitrite 8.0ppm | 0.99960 | 8.00000 | 7.48670 | 6.42 | N/A |
| 10002 | Nitrite 4.0ppm | 0.54040 | 4.00000 | 4.04560 | 1.14 | N/A |
| 10003 | Nitrite 1.0ppm | 0.13770 | 1.00000 | 1.02790 | 2.79 | N/A |
| 10004 | Nitrite 0.4ppm | 0.05620 | 0.40000 | 0.41670 | 4.18 | N/A |
| 10005 | Nitrite 0.1ppm | 0.01400 | 0.10000 | 0.10080 | 0.84 | N/A |
| 10006 | Nitrite 0.05ppm | 0.00720 | 0.05000 | 0.04940 | 1.10 | N/A |
| 10007 | Nitrite 0.0ppm | 0.00020 | 0.00000 | -0.00300 | 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 | ? | 0.0002 | 1 | 1 | 1 | 0.0076 | | 2024-12-18T09:20:34 |
| CCV NO3 | 2 | QC | 1 | 0.0914 | 1 | 1 | 1 | 0.9714 | | 2024-12-18T09:21:46 |
| CCV NO2 | 3 | QC | ? | 0.0914 | 1 | 1 | 1 | 0.9714 | | 2024-12-18T09:22:52 |
| CCB | 4 | QC | 0 | 0.0001 | 1 | 1 | 1 | 0.0063 | | 2024-12-18T09:24:01 |

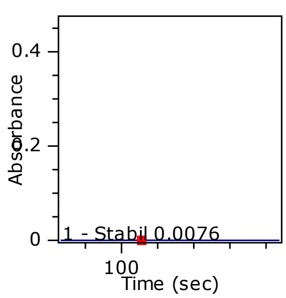
| Name | Inj. No. | Type | Known Conc. mg/L | Response | MDF | ADF | Weight | Calc. Conc. mg/L | Flags | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| L2474182-01 | 5 | Unknown | ? | 0.0026 | 1 | 1 | 1 | 0.0332 | | 2024-12-18T09:25:09 |
| L2474194-01 | 6 | Unknown | ? | 0.2337 | 1 | 1 | 1 | 2.4740 | | 2024-12-18T09:26:16 |
| L2474161-01 | 7 | Unknown | ? | 0.1120 | 1 | 1 | 1 | 1.1888 | | 2024-12-18T09:27:22 |
| WG2010657-3 | 8 | Unknown | ? | 0.1118 | 1 | 1 | 1 | 1.1861 | | 2024-12-18T09:28:29 |
| WG2010657-4 | 9 | Unknown | ? | 0.4710 | 1 | 1 | 1 | 4.9810 | | 2024-12-18T09:29:35 |
| CCV NO3 | 10 | QC | 1 | 0.0894 | 1 | 1 | 1 | 0.9499 | | 2024-12-18T09:30:40 |
| CCV NO2 | 11 | QC | ? | 0.0908 | 1 | 1 | 1 | 0.9651 | | 2024-12-18T09:31:46 |
| CCB | 12 | QC | 0 | 0.0001 | 1 | 1 | 1 | 0.0061 | | 2024-12-18T09:32:54 |

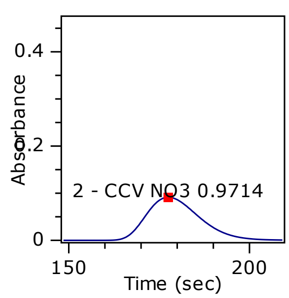
Channel: 2-NO2

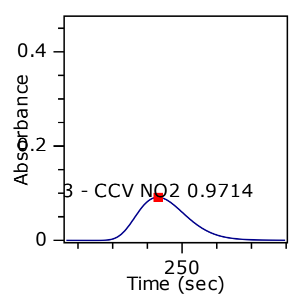
| Name | Inj. No. | Type | Known Conc. mg/L | Response | MDF | ADF | Weight | Calc. Conc. mg/L | Flags | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| Stabil | 1 | Unknown | ? | 0.0002 | 1 | 1 | 1 | -0.0029 | | 2024-12-18T09:20:20 |
| CCV NO3 | 2 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0036 | | 2024-12-18T09:21:32 |
| CCV NO2 | 3 | QC | 1 | 0.1352 | 1 | 1 | 1 | 1.0089 | | 2024-12-18T09:22:36 |
| CCB | 4 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0029 | | 2024-12-18T09:23:46 |
| L2474182-01 | 5 | Unknown | ? | 0.0010 | 1 | 1 | 1 | 0.0028 | | 2024-12-18T09:24:55 |
| L2474194-01 | 6 | Unknown | ? | 0.0048 | 1 | 1 | 1 | 0.0315 | | 2024-12-18T09:26:01 |
| L2474161-01 | 7 | Unknown | ? | 0.0025 | 1 | 1 | 1 | 0.0140 | | 2024-12-18T09:27:07 |
| WG2010657-3 | 8 | Unknown | ? | 0.0015 | 1 | 1 | 1 | 0.0069 | | 2024-12-18T09:28:15 |
| WG2010657-4 | 9 | Unknown | ? | 0.5004 | 1 | 1 | 1 | 3.7460 | | 2024-12-18T09:29:20 |
| CCV NO3 | 10 | QC | ? | 0.0001 | 1 | 1 | 1 | -0.0036 | | 2024-12-18T09:30:24 |
| CCV NO2 | 11 | QC | 1 | 0.1348 | 1 | 1 | 1 | 1.0061 | | 2024-12-18T09:31:31 |
| CCB | 12 | QC | 0 | 0.0002 | 1 | 1 | 1 | -0.0026 | | 2024-12-18T09:32:41 |

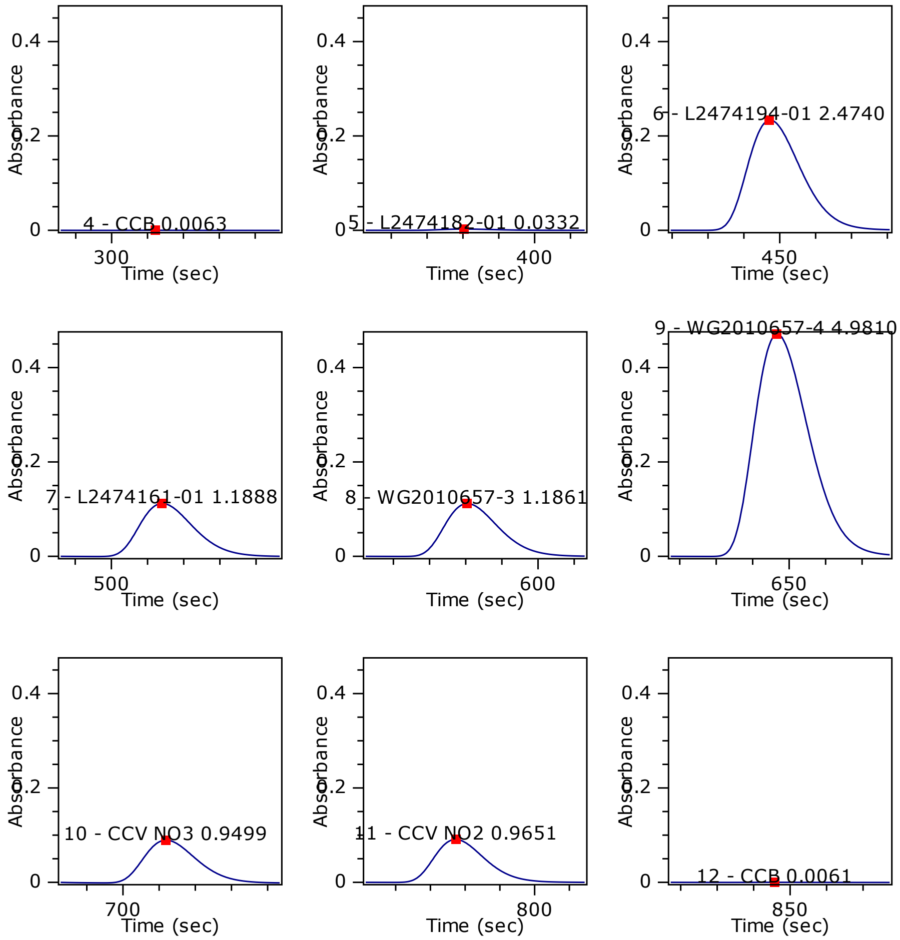
Peaks:

Channel: 1-NOx

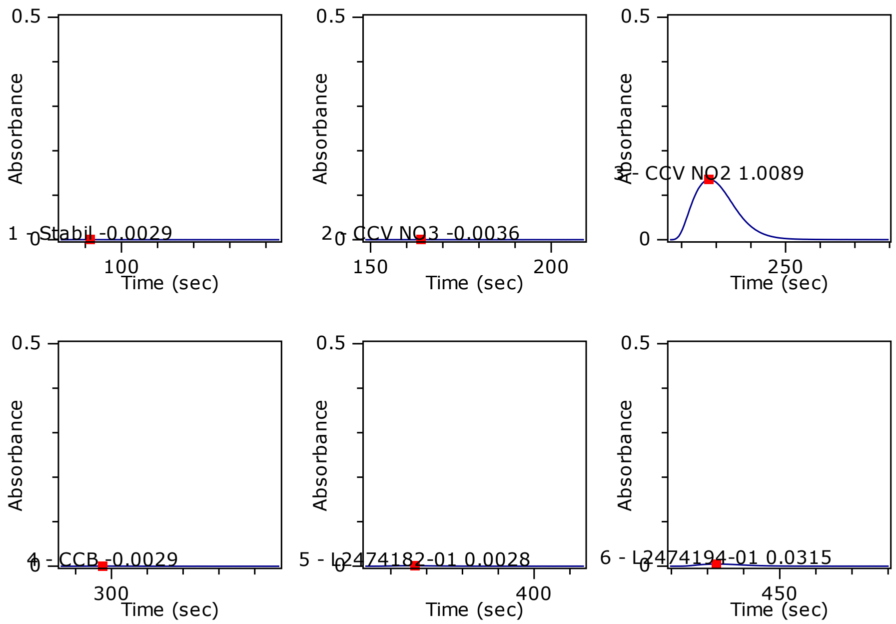


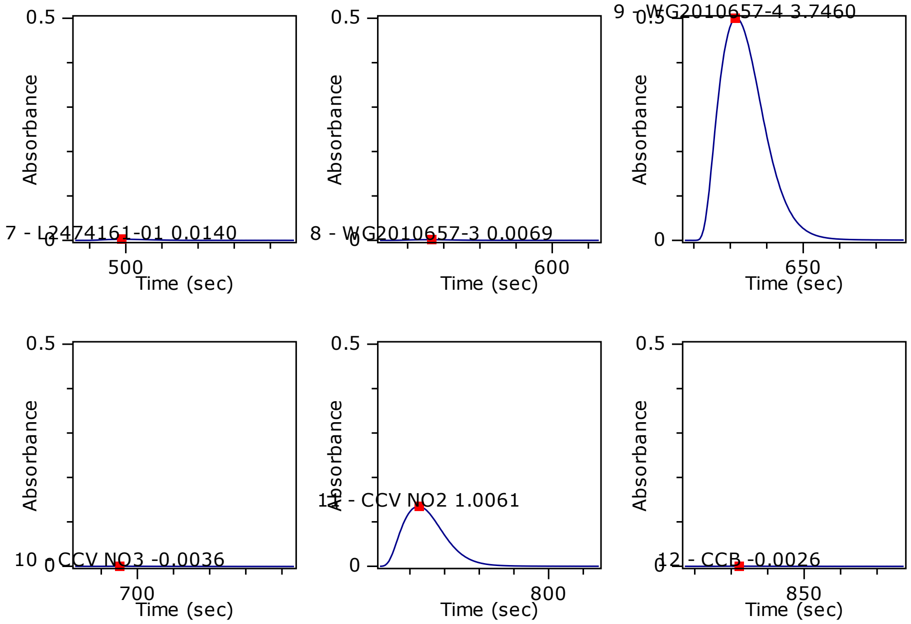






Channel: 2-NO2






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 COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 1.4
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 4.5
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2024-12-18T09:18:49

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

PACE ANALYTICAL

# WET CHEMISTRY DEPARTMENT

NITRITE NITROGEN WORKSHEET

Last Change 03/4/13
File Nitrite-L.xlt

**SOP No.:** 07-69
**Product:** NO2-4500NO2-PPB
**Curve Calibration Date :** 12/12/2024
**Analysis:** Nitrite Nitrogen
**Curve Identifier:** 121224
**Method:** SM 4500NO2-B
**Analyte:** Nitrogen, Nitrite
**Instrument:** SPEC 3
**Wavelength:** 540 nm
**Technician:** MRM
**Spike Volume(ml):** 1
**Work group:** WG2009133
**Spike Concentration (mg/l):** 5
**RDL:** 0.02 mg/l
**LCS Volume(ml):** 2
**LCS Concentration (mg/l):** 5

| | Standard ID | Mean signal (pk area) abs | Dilution | Result (mg/l) |
|---|---|---|---|---|
| | 0 | 0.001 | 1.0 | 0.0 |
| | 0.02 | 0.040 | 1.0 | 0.013 |
| 106% | 0.05 | 0.196 | 1.0 | 0.053 |
| 103% | 0.1 | 0.391 | 1.0 | 0.103 |
| 100% | 0.3 | 1.150 | 1.0 | 0.299 |

Calibration Curve Volume(ml): 50

**Slope** 3.875477 **y-intercept** -0.0086948

**Correlation Coefficient** 0.999317

**ICV/LCS Concentration (mg/l) =** 0.20

**Reagents/Media Information**

| Material | Lot No. |
|---|---|
| ICV/LCS/CCV: | 121224 |
| MS: | 121024 |
| NED Reagent: | 090724 |
| Sulfanilamide: | 112324 |
| Filter Lot: | |
| Syringe Lot: | |

| Time | Date | Sample Number | Sample Volume (ml) | Final Volume (ml) | Absorbance | Dilution Factor | RESULT (mg/l) | RDL Multiplier | FINAL RESULT (mg N-NO2/L) | Recovery |
|---|---|---|---|---|---|---|---|---|---|---|
| 12:20 | 12/12/2024 | ICB | 50 | 50 | 0.000 | 1 | 0.002 | 1 | 0.00 | |
| 12:20 | 12/12/2024 | ICV | 50 | 50 | 0.793 | 1 | 0.207 | 1 | 0.21 | 103% |
| 12:20 | 12/12/2024 | L2472567-01 | 50 | 50 | 0.002 | 1 | 0.003 | 1 | 0.00 | |
| 12:20 | 12/12/2024 | L2472567-02 | 50 | 50 | 0.001 | 1 | 0.003 | 1 | 0.00 | |
| 12:20 | 12/12/2024 | L2472567-03 | 50 | 50 | 0.001 | 1 | 0.003 | 1 | 0.00 | |
| 12:20 | 12/12/2024 | CCV | 50 | 50 | 0.801 | 1 | 0.209 | 1 | 0.21 | |
| 12:20 | 12/12/2024 | CCB | 50 | 50 | 0.001 | 1 | 0.003 | 1 | 0.00 | |
| | | | | | | #DIV/0! | | #DIV/0! | | |
| | | | | | | #DIV/0! | | #DIV/0! | | |
| | | | | | | #DIV/0! | | #DIV/0! | | |
| | | | | | | #DIV/0! | | #DIV/0! | | |
| | | | | | | #DIV/0! | | #DIV/0! | | |
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| | | | | | | #DIV/0! | | #DIV/0! | | |
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| | | | | | | #DIV/0! | | #DIV/0! | | |
| | | | | | | #DIV/0! | | #DIV/0! | | |
| | | | | | | #DIV/0! | | #DIV/0! | | |
| | | | | | | #DIV/0! | | #DIV/0! | | |
| 12:20 | 12/12/2024 | WG2009133-1 | 50 | 50 | 0.000 | 1 | 0.002 | 1 | 0.00 | |
| 12:20 | 12/12/2024 | WG2009133-3 | 50 | 50 | 0.001 | 1 | 0.003 | 1 | 0.00 | L2472567-03 |

| Time | Date | Sample number | Sample volume | Final volume | Absorbance | Spike conc. mg/l | Sample Result mg/l | Dilution Factor | Spike Result mg/l | Recovery % |
|---|---|---|---|---|---|---|---|---|---|---|
| 12:20 | 12/12/2024 | WG2009133-4 | 50 | 50 | 0.415 | 0.10 | 0.00 | 1 | 0.11 | 109 |
| 12:20 | 12/12/2024 | WG2009133-2 | 50 | 50 | 0.793 | 0.20 | | 1 | 0.21 | 103% |

| COMMENTS & OBSERVATIONS | SAMPLE RESULTS |
|---|---|
| | ICB |
| | ICV |
| | L2472567-01 |
| | L2472567-02 |
| | L2472567-03 |
| | CCV |
| | CCB |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| BLANK | WG2009133-1 |
| DUP | WG2009133-3 |

| | |
|---|---|
| **L2472567-03** | 50 |
| LCS | 0 |

# Quality Control

# Form 5a
# Matrix Spike

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | | **Lab Number** | : | L2474329 |
| **Project Name** | : CORAM MATERIALS | | **Project Number** | : | 2232.0006Y005 |
| **Client Sample ID** | : MW-4S | | **Matrix** | : | WATER |
| **Lab Sample ID** | : L2474329-01 | | | | |
| **Matrix Spike** | : WG2010531-4 | | **MS Analysis Date** | : | 12/18/24 06:10 |
| **Matrix Spike Dup** | : | | **MSD Analysis Date** | : | |

| Parameter | Sample Conc. (mg/l) | Matrix Spike Sample: Spike Added (mg/l) | Matrix Spike Sample: Spike Conc. (mg/l) | Matrix Spike Sample: %R | Matrix Spike Duplicate: Spike Added (mg/l) | Matrix Spike Duplicate: Spike Conc. (mg/l) | Matrix Spike Duplicate: %R | RPD | Recovery Limits | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrite | ND | 4 | 3.96 | 99 | | | | | 80-120 | 20 |

Pace

# Form 5a
# Matrix Spike

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : | **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : | **L2474329** |
| **Project Name** | : | **CORAM MATERIALS** | **Project Number** | : | **2232.0006Y005** |
| **Client Sample ID** | : | **MW-4S** | **Matrix** | : | **WATER** |
| **Lab Sample ID** | : | **L2474329-01** | | | |
| **Matrix Spike** | : | **WG2010532-4** | **MS Analysis Date** | : | **12/18/24 06:08** |
| **Matrix Spike Dup** | : | | **MSD Analysis Date** | : | |

| | | Matrix Spike Sample | | | Matrix Spike Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Parameter | Sample Conc. (mg/l) | Spike Added (mg/l) | Spike Conc. (mg/l) | %R | Spike Added (mg/l) | Spike Conc. (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
| Nitrogen, Nitrate | 3.50 | 4 | 7.11 | 90 | | | | | 83-113 | 17 |

# Form 5a
# Matrix Spike

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : | **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : | **L2474329** |
| **Project Name** | : | **CORAM MATERIALS** | **Project Number** | : | **2232.0006Y005** |
| **Client Sample ID** | : | **MW-4S** | **Matrix** | : | **WATER** |
| **Lab Sample ID** | : | **L2474329-01** | | | |
| **Matrix Spike** | : | **WG2010533-4** | **MS Analysis Date** | : | **12/18/24 06:08** |
| **Matrix Spike Dup** | : | | **MSD Analysis Date** | : | |

| Parameter | Sample Conc. (mg/l) | Matrix Spike Sample Spike Added (mg/l) | Matrix Spike Sample Spike Conc. (mg/l) | Matrix Spike Sample %R | Matrix Spike Duplicate Spike Added (mg/l) | Matrix Spike Duplicate Spike Conc. (mg/l) | Matrix Spike Duplicate %R | RPD | Recovery Limits | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate/Nitrite | 3.5 | 4 | 7.1 | 90 | | | | | 80-120 | 20 |

# Form 6
# Lab Duplicates

| | | | | | |
|---|---|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : | L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : | 2232.0006Y005 |
| Client Sample ID | : MW-4S | Matrix | : | WATER |
| Lab Sample ID | : L2474329-01 | Analysis Date | : | 12/18/24 06:03 |
| Dup Sample ID | : WG2010531-3 | DUP Analysis Date | : | 12/18/24 06:09 |

| 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 | : L2474329 |
| Project Name | : CORAM MATERIALS | | Project Number | : 2232.0006Y005 |
| Client Sample ID | : MW-4S | | Matrix | : WATER |
| Lab Sample ID | : L2474329-01 | | Analysis Date | : 12/18/24 06:03 |
| Dup Sample ID | : WG2010532-3 | | DUP Analysis Date | : 12/18/24 06:07 |

| Parameter | Sample Concentration (mg/l) | Duplicate Concentration (mg/l) | RPD | RPD Limit |
|---|---|---|---|---|
| Nitrogen, Nitrate | 3.50 | 3.50 | 0 | 17 |

# Form 6
# Lab Duplicates

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | | **Lab Number** | : | L2474329 |
| **Project Name** | : CORAM MATERIALS | | **Project Number** | : | 2232.0006Y005 |
| **Client Sample ID** | : MW-4S | | **Matrix** | : | WATER |
| **Lab Sample ID** | : L2474329-01 | | **Analysis Date** | : | 12/18/24 06:03 |
| **Dup Sample ID** | : WG2010533-3 | | **DUP Analysis Date** | : | 12/18/24 06:07 |

| Parameter | Sample Concentration (mg/l) | Duplicate Concentration (mg/l) | RPD | RPD Limit |
|---|---|---|---|---|
| Nitrogen, Nitrate/Nitrite | 3.5 | 3.5 | 0 | 20 |

# Form 7
# Laboratory Control Sample

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Client Sample ID | : NA | Matrix | : WATER |
| Lab Sample ID | : WG2010531-2 | LCS Analysis Date | : 12/18/24 03:25 |
| Dup Sample ID | : | LCSD Analysis Date | : |

| | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Parameter | True (mg/l) | Found (mg/l) | %R | True (mg/l) | Found (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
| Nitrogen, Nitrite | 5.00 | 4.98 | 100. | | | | | 90-110 | 20 |

# Form 7
# Laboratory Control Sample

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Client Sample ID | : NA | Matrix | : WATER |
| Lab Sample ID | : WG2010532-2 | LCS Analysis Date | : 12/18/24 03:31 |
| Dup Sample ID | : | LCSD Analysis Date | : |

| | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Parameter | True (mg/l) | Found (mg/l) | %R | True (mg/l) | Found (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
| Nitrogen, Nitrate | 5.00 | 4.84 | 97. | | | | | 90-110 | 17 |

# Form 7
# Laboratory Control Sample

| | | | | |
|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Client Sample ID** | : NA | **Matrix** | : WATER |
| **Lab Sample ID** | : WG2010533-2 | **LCS Analysis Date** | : 12/18/24 03:31 |
| **Dup Sample ID** | : | **LCSD Analysis Date** | : |

| Parameter | Laboratory Control Sample True (mg/l) | Found (mg/l) | %R | Laboratory Control Duplicate True (mg/l) | Found (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate/Nitrite | 5.00 | 4.80 | 96. | | | | | 90-110 | 20 |

| | |
|---|---|
| **Date Created:** | 11/11/21 |
| **Created By:** | Jason Hebert |
| **File:** | PM11467-1 |
| **Page:** | 1 |

**WETCHEM (WATER)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Method | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | 14797-55-8 | 0.1 | 0.0228 | mg/l | 90-110 | | 83-113 | 6 | 6 | 353.2 | 48 hours | 1 - Plastic 250ml unpreserved |
| Nitrogen, Nitrate | 14797-55-8 | 0.1 | 0.0228 | mg/l | 90-110 | | 83-113 | 17 | 17 | 4500NO3-F | 48 hours | 1 - Plastic 250ml unpreserved |
| Nitrogen, Nitrite | NONE | 0.05 | 0.0143 | mg/l | 90-110 | 20 | 80-120 | 20 | 20 | 353.2 | 48 hours | 1 - Plastic 250ml unpreserved |
| Nitrogen, Nitrite | NONE | 0.05 | 0.0143 | mg/l | 90-110 | 20 | 80-120 | 20 | 20 | 4500NO3-F | 48 hours | 1 - Plastic 250ml unpreserved |

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

**Date Created:** 11/11/21
**Created By:** Jason Hebert
**File:** PM11468-1
**Page:** 1

**WETCHEM (SOIL)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Method | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | 14797-55-8 | 1 | 0.261 | mg/kg | 90-110 | 20 | 80-120 | 20 | 20 | 4500NO3-F | 48 hours | 1 - Glass 250ml/8oz unpreserved |
| Nitrogen, Nitrite | NONE | 1 | 0.282 | mg/kg | 90-110 | 20 | 80-120 | 20 | 20 | 4500NO3-F | 48 hours | 1 - Glass 250ml/8oz unpreserved |

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

## Calculations of Nitrogen, Nitrate

Aqueous Samples:
Compute sample N in NO3 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 1 (NO3+NO2) and Channel 2 (NO2)

$$NO3\ mg/I = (NO3+NO2)\ mg/L - (NO2)\ mg/L$$

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO3)\text{-}N\ mg/L = mg/L\ \text{direct reading} \times \text{dilution factor}$$

## 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)

$$(NO2)\text{-}N\ mg/L = mg/L\ \text{direct reading} \times \text{dilution factor}$$

# Sequence Logs

| Date: | Initals: | Syringe Lot: | Syringe Lot: 20230620 |
|---|---|---|---|
| 121824 | KAF | Filter Lot: | Filter Lot: 18048470A |

| Injection # | Rack # | Sample ID: | Comments: |
|---|---|---|---|
| **19** | RA1 | ICV NO3 5 | *Buffer: NO3NO2_121524_BUFFER* |
| **20** | RA2 | ICV NO2 5 | *Color: NO3NO2_121424_COLOR* |
| **21** | RA3 | ICV NO3 0.5 | *NO3 MS: NO3_121224_200PPM_CAL* |
| **22** | RA4 | ICV NO2 0.5 | *NO2 MS: NO2_111624_200PPM_CAL* |
| **23** | RA5 | ICB | *ICV NO3 5: NO3_121824_5PPM_ICV* |
| **24** | RA6 | 5X DILUTER CHECK | *ICV NO2 5: NO2_121724_5PPM_ICV* |
| **25** | RA7 | BLANK NO3 | *ICV NO3 0.5: NO3_121824_0.5PPM_ICV* |
| **26** | RA8 | LCS NO3 | *ICV NO2 0.5: NO2_121824_0.5PPM_ICV* |
| **27** | RA9 | BLANK NO2 | |
| **28** | RA10 | LCS NO2 | |
| 32 | RA11 | WG2010471-1; NO2 | |
| 33 | RA12 | WG2010471-2; NO2 | |
| 34 | RA13 | WG2010472-1; NO2/531/657 | |
| 35 | RA14 | WG2010472-2; NO2/531/657 | |
| 36 | RA15 | WG2010474-1; NO3 | |
| 37 | RA16 | WG2010474-2; NO3 | |
| 38 | RA17 | WG2010475-1; NO3 | |
| 39 | RA18 | WG2010475-2; NO3 | |
| 40 | RA19 | WG2010480-1; NO3/532/533 | |
| 41 | RA20 | WG2010480-2; NO3/532/533 | |
| 45 | RA21 | WG2010481-1; NO3 | |
| 46 | RA22 | WG2010481-2; NO3 | |
| 47 | RA23 | WG2010482-1; NO3 | |
| 48 | RA24 | WG2010482-2; NO3 | |
| 49 | RA25 | WG2010486-1; CNO3 | *OOH* |
| 50; 62; 71 | RA26 | WG2010486-2; CNO3 | *DW* |
| 51 | RA27 | WG2010487-1; CNO3 | GOING OOH |
| 52 | RA28 | WG2010487-2; CNO3 | FIELD BLANK |
| 53 | RA29 | WG2010488-1; CNO3 | |
| 54 | RA30 | WG2010488-2; CNO3 | |
| 58 | RA31 | L2473991-01 | |
| 59 | RA32 | WG2010474-3; NO3 | |
| 60 | RA33 | WG2010474-4; NO3 | |
| 61 | RA34 | WG2010471-3; NO2 | |
| 63 | RA35 | WG2010471-4; NO2 | |
| 64 | RA36 | L2473992-01 | |
| 65 | RA37 | WG2010474-5; NO3 | |
| 66 | RA38 | WG2010474-6; NO3 | |
| 67 | RA39 | WG2010471-5; NO2 | |
| 72 | RA40 | WG2010471-6; NO2 | |
| 73 | RA41 | L2473992-02 | |
| 74 | RA42 | L2473992-03 | |
| 75 | RA43 | L2473993-02 | |

| Injection # | Rack # | Sample ID: | Comments: |
|---|---|---|---|
| 76; 155 | RA44 | L2474012-01 | |
| 77; 156 | RA45 | L2474014-01 | |
| 78; 142 | RA46 | L2474015-01 | |
| 79; 157 | RA47 | L2474017-01 | |
| 80; 143 | RA48 | L2474018-01 | |
| 84 | RA49 | L2474051-01 | |
| 85 | RA50 | L2474067-02 | |
| 86 | RA51 | L2474146-01 | |
| 87 | RA52 | L2474215-01 | |
| 88; 158 | RA53 | L2474222-01 | |
| 89; 159 | RA54 | L2474223-01 | |
| 90; 144 | RA55 | L2474223-02 | |
| 91; 160 | RA56 | L2474224-02 | |
| 92; 145 | RA57 | L2474225-01 | |
| 93 | RA58 | L2474225-02 | |
| 97 | RA59 | L2473872-01 | |
| 98 | RA60 | WG2010480-3; NO3 | |
| 99 | RA61 | WG2010480-4; NO3 | |
| 100 | RA62 | L2473839-01 | |
| 101 | RA63 | L2473927-01 | |
| 102 | RA64 | L2473927-02 | |
| 103 | RA65 | L2474183-14 | |
| 104 | RA66 | WG2010475-5; NO3 | |
| 105 | RA67 | WG2010475-6; NO3 | |
| 106 | RA68 | L2474228-02 | |
| 110 | RA69 | WG2010475-3; NO3 | |
| 111 | RA70 | WG2010475-4; NO3 | |
| 112 | RA71 | WG2010472-3; NO2 | |
| 113 | RA72 | WG2010472-4; NO2 | |
| 114; 161 | RA73 | L2474229-02 | |
| 115; 149 | RA74 | L2474270-01 | |
| 116 | RA75 | L2474270-02 | |
| 117 | RA76 | L2474278-01 | |
| 118 | RA77 | L2474278-02 | |
| 119 | RA78 | L2474278-03 | |
| 123 | RA79 | L2474035-01 | |
| 124 | RA80 | L2474183-01 | |
| 125 | RA81 | WG2010481-3; NO3 | |
| 126 | RA82 | WG2010481-4; NO3 | |
| 127 | RA83 | L2474183-02 | |
| 128 | RA84 | L2474183-03 | |
| 129 | RA85 | L2474183-04 | |
| 130 | RA86 | L2474183-05 | |
| 131 | RA87 | L2474183-06 | |
| 132 | RA88 | L2474183-07 | |
| 136 | RA89 | L2474183-08 | |

| Injection # | Rack # | Sample ID: | Comments: |
|---|---|---|---|
| 137 | RA90 | L2474183-09 | |
| 138 | RB1 | L2474183-10 | |
| 139 | RB2 | L2474183-11 | |
| 140 | RB3 | L2474183-12 | |
| 141 | RB4 | L2474183-13 | |
| 162 | RB5 | L2474329-01 | |
| 166 | RB6 | WG2010532/533-3; NO3 | |
| 167 | RB7 | WG2010532/533-4; NO3 | |
| 168 | RB8 | WG2010531-3; NO2 | |
| 169 | RB9 | WG2010531-4; NO2 | |
| 170 | RB10 | L2474329-02 | |
| 171 | RB11 | L2474329-03 | |
| 172 | RB12 | L2474329-04 | |
| 173 | RB13 | L2474329-05 | |
| 174 | RB14 | L2474316-01 | |
| 175 | RB15 | L2474316-02 | |
| 179 | RB16 | L2474316-03 | |
| 180 | RB17 | L2474316-04 | |
| 181 | RB18 | L2474316-05 | |
| 182 | RB19 | L2474320-01 | |
| 183 | RB20 | L2474320-02 | |
| 5 | RB21 | L2472567-01 | MANUAL |
| 6 | RB22 | WG2010482-3; NO3 | MANUAL |
| 7 | RB23 | WG2010482-4; NO3 | MANUAL |
| 8 | RB24 | L2472567-02 | MANUAL |
| 9 | RB25 | L2472567-03 | MANUAL |
| 10 | RB26 | L2472509-01 | |
| 11 | RB27 | WG2010486-3; CNO3 | |
| 12 | RB28 | WG2010486-4; CNO3 | |
| 13 | RB29 | L2472509-02 | |
| 14 | RB30 | L2472709-01 | |
| 18 | RB31 | L2472709-02 | |
| 19 | RB32 | L2472954-01 | |
| 20 | RB33 | WG2010486-5; CNO3 | |
| 21 | RB34 | WG2010486-6; CNO3 | |
| 22 | RB35 | L2473059-01 | |
| 23 | RB36 | L2473067-01 | |
| 24 | RB37 | L2473069-01 | |
| 25 | RB38 | L2473074-01 | |
| 26 | RB39 | L2473079-02 | |
| 27 | RB40 | L2473092-02 | |
| 31 | RB41 | L2473457-01 | |
| 32 | RB42 | L2473457-02 | |
| 33 | RB43 | L2472515-01 | |
| 34 | RB44 | WG2010487-3; CNO3 | |
| 35 | RB45 | WG2010487-4; CNO3 | |

| Injection # | Rack # | Sample ID: | Comments: |
|---|---|---|---|
| 36 | RB46 | L2472515-02 | |
| 37 | RB47 | L2472518-01 | |
| 38 | RB48 | L2472518-02 | |
| 39 | RB49 | L2472652-07 | |
| 40 | RB50 | L2474326-01 | |
| 44 | RB51 | L2474326-02 | |
| 45 | RB52 | L2474326-03 | |
| 46 | RB53 | L2474326-04 | |
| 47 | RB54 | L2472612-01 | |
| 48 | RB55 | WG2010488-3; CNO3 | |
| 49; 63 | RB56 | WG2010488-4; CNO3 | |
| 50; 57 | RB57 | L2472632-01 | |
| 51 | RB58 | L2472633-01 | |
| 52 | RB59 | L2472686-01 | |
| 53 | RB60 | L2474154-01A | |
| | | | |
| 5 | RB61 | L2474182-01A | |
| 6 | RB62 | L2474194-01A | |
| 7 | RB63 | L2474161-01E | |
| 8 | RB64 | WG2010657-3; NO2 | |
| 9 | RB65 | WG2010657-4; NO2 | |

# Total Dissolved Solids Analysis

# Results

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Lab ID** | : **L2474329-01** | **Date Collected** | : **12/16/24 11:00** |
| **Client ID** | : **MW-4S** | **Date Received** | : **12/17/24** |
| **Sample Location** | : **416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | : **12/23/24 02:38** |
| **Sample Matrix** | : **WATER** | **Dilution Factor** | : **1.3** |
| **Analytical Method** | : **121,2540C** | **Analyst** | : **DEW** |
| **Lab File ID** | : **WG2012514.pdf** | **Instrument ID** | : **BALANCE#22** |
| **Sample Amount** | : | **%Solids** | : **N/A** |
| **Digestion Method** | : | **Date Digested** | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| **NONE** | **Solids, Total Dissolved** | **200** | **13** | **4.0** | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Lab ID** | : **L2474329-02** | **Date Collected** | : **12/16/24 11:50** |
| **Client ID** | : **MW-4D2** | **Date Received** | : **12/17/24** |
| **Sample Location** | : **416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | : **12/23/24 02:38** |
| **Sample Matrix** | : **WATER** | **Dilution Factor** | : **1.3** |
| **Analytical Method** | : **121,2540C** | **Analyst** | : **DEW** |
| **Lab File ID** | : **WG2012514.pdf** | **Instrument ID** | : **BALANCE#22** |
| **Sample Amount** | : | **%Solids** | : **N/A** |
| **Digestion Method** | : | **Date Digested** | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| **NONE** | **Solids, Total Dissolved** | **110** | **13** | **4.0** | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-03** | **Date Collected** | **: 12/16/24 08:45** |
| **Client ID** | **: MW-12S** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/20/24 15:45** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1.3** |
| **Analytical Method** | **: 121,2540C** | **Analyst** | **: SMD** |
| **Lab File ID** | **: WG2011954.pdf** | **Instrument ID** | **: BALANCE#22** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **:** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| **NONE** | **Solids, Total Dissolved** | **220** | **13** | **4.0** | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-04 | Date Collected | : 12/16/24 09:33 |
| Client ID | : MW-12D | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/23/24 02:38 |
| Sample Matrix | : WATER | Dilution Factor | : 1.3 |
| Analytical Method | : 121,2540C | Analyst | : DEW |
| Lab File ID | : WG2012514.pdf | Instrument ID | : BALANCE#22 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Solids, Total Dissolved | 100 | 13 | 4.0 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-05 | Date Collected | : 12/16/24 12:00 |
| Client ID | : EB-12162024 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/23/24 02:38 |
| Sample Matrix | : Equipment Blank | Dilution Factor | : 1 |
| Analytical Method | : 121,2540C | Analyst | : DEW |
| Lab File ID | : WG2012514.pdf | Instrument ID | : BALANCE#22 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Solids, Total Dissolved | ND | 10 | 3.1 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2011954-1 | Date Collected | : NA |
| Client ID | : WG2011954-1BLANK | Date Received | : NA |
| Sample Location | : | Date Analyzed | : 12/20/24 15:45 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,2540C | Analyst | : SMD |
| Lab File ID | : WG2011954.pdf | Instrument ID | : BALANCE#22 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Solids, Total Dissolved | ND | 10 | 3.1 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: WG2011954-3** | **Date Collected** | **: 12/13/24 10:35** |
| **Client ID** | **: WG2011954-3 DUP** | **Date Received** | **: 12/13/24** |
| **Sample Location** | **:** | **Date Analyzed** | **: 12/20/24 15:45** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1.3** |
| **Analytical Method** | **: 121,2540C** | **Analyst** | **: SMD** |
| **Lab File ID** | **: WG2011954.pdf** | **Instrument ID** | **: BALANCE#22** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **:** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Solids, Total Dissolved | 98. | 13 | 4.0 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2012514-1 | Date Collected | : NA |
| Client ID | : WG2012514-1BLANK | Date Received | : NA |
| Sample Location | : | Date Analyzed | : 12/23/24 02:38 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,2540C | Analyst | : DEW |
| Lab File ID | : WG2012514.pdf | Instrument ID | : BALANCE#22 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Solids, Total Dissolved | ND | 10 | 3.1 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2012514-3 | Date Collected | : 12/16/24 11:00 |
| Client ID | : MW-4SDUP | Date Received | : 12/17/24 |
| Sample Location | : | Date Analyzed | : 12/23/24 02:38 |
| Sample Matrix | : WATER | Dilution Factor | : 1.3 |
| Analytical Method | : 121,2540C | Analyst | : DEW |
| Lab File ID | : WG2012514.pdf | Instrument ID | : BALANCE#22 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Solids, Total Dissolved | 170 | 13 | 4.0 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2012514-4 | Date Collected | : 12/16/24 11:50 |
| Client ID | : MW-4D2DUP | Date Received | : 12/17/24 |
| Sample Location | : | Date Analyzed | : 12/23/24 02:38 |
| Sample Matrix | : WATER | Dilution Factor | : 1.3 |
| Analytical Method | : 121,2540C | Analyst | : DEW |
| Lab File ID | : WG2012514.pdf | Instrument ID | : BALANCE#22 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Solids, Total Dissolved | 64. | 13 | 4.0 | |

# Sample Raw Data

# Wet Chemistry Gravimetric ELN

Printed: DEC-24-24 11:18:07

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **WorkGroup** | WG2012514 | **Temp In (C)** | 180 | **Temp In (C)** | 180 | **Temp In (C)** | 180 | **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)** |
| **Method** | SM2540C | **Time In** | 24-DEC-24 00:45 | **Time In** | 24-DEC-24 03:50 | **Time In** | 24-DEC-24 06:13 | **Time In** | **Time In** |
| **Instrument** | BALANCE#22 | **Time Out** | 24-DEC-24 02:45 | **Time Out** | 24-DEC-24 05:50 | **Time Out** | 24-DEC-24 08:01 | **Time Out** | **Time Out** |

| **Evaporation** | **Temp In (C)** | **Time In** |
|---|---|---|
| | 90 | 23-DEC-24 12:05 |

| **LCS Lot #** | **TrueValue** | **Units** |
|---|---|---|
| 121724A | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L2474067-02 | 23-DEC-24 02:38 | DEB WHELAN | BM | 78981823 | 110.6192 | 50 | 110.6599 | 110.6617 | 110.6615 | | | 814.00 | 2 | |
| L2474183-01 | 23-DEC-24 02:38 | DEB WHELAN | BD | 78981823 | 101.5277 | 80 | 101.5389 | 101.5409 | 101.5412 | | | 140.00 | 1.3 | |
| L2474183-02 | 23-DEC-24 02:38 | DEB WHELAN | BH | 78981823 | 120.2731 | 80 | 120.2768 | 120.2794 | 120.2798 | | | 46.25 | 1.3 | |
| L2474183-03 | 23-DEC-24 02:38 | DEB WHELAN | BRR | 78981823 | 122.7604 | 80 | 122.7625 | 122.7628 | | | | 26.25 | 1.3 | |
| L2474183-04 | 23-DEC-24 02:38 | DEB WHELAN | BUG | 78981823 | 106.839 | 80 | 106.8511 | 106.8524 | 106.8525 | | | 151.25 | 1.3 | |
| L2474183-05 | 23-DEC-24 02:38 | DEB WHELAN | BI | 78981823 | 106.6026 | 80 | 106.6168 | 106.6171 | | | | 177.50 | 1.3 | |
| L2474183-06 | 23-DEC-24 02:38 | DEB WHELAN | BW | 78981823 | 116.1146 | 80 | 116.1269 | 116.1271 | | | | 153.75 | 1.3 | |
| L2474183-07 | 23-DEC-24 02:38 | DEB WHELAN | BO | 78981823 | 120.3482 | 80 | 120.3548 | 120.3567 | 120.3563 | | | 82.50 | 1.3 | |
| L2474183-08 | 23-DEC-24 02:38 | DEB WHELAN | CF | 78981823 | 62.1907 | 80 | 62.2115 | 62.2116 | | | | 260.00 | 1.3 | T3 |
| L2474183-09 | 23-DEC-24 02:38 | DEB WHELAN | CA | 78981823 | 58.8612 | 80 | 58.8733 | 58.8734 | | | | 151.25 | 1.3 | |
| L2474183-10 | 23-DEC-24 02:38 | DEB WHELAN | RA | 78981823 | 73.3094 | 80 | 73.3167 | 73.3169 | | | | 91.25 | 1.3 | |
| L2474183-11 | 23-DEC-24 02:38 | DEB WHELAN | A5 | 78981823 | 64.0398 | 80 | 64.0471 | 64.0475 | | | | 91.25 | 1.3 | |
| L2474183-12 | 23-DEC-24 02:38 | DEB WHELAN | EM | 78981823 | 67.5152 | 80 | 67.5228 | 67.5226 | | | | 92.50 | 1.3 | |
| L2474183-13 | 23-DEC-24 02:38 | DEB WHELAN | ED | 78981823 | 56.3539 | 80 | 56.3593 | 56.3591 | | | | 65.00 | 1.3 | |
| L2474213-01 | 23-DEC-24 02:38 | DEB WHELAN | F4 | 78981823 | 66.2801 | 80 | 66.3119 | 66.3117 | | | | 395.00 | 1.3 | |
| L2474329-01 | 23-DEC-24 02:38 | DEB WHELAN | FR | 78981823 | 59.1019 | 80 | 59.1177 | 59.118 | | | | 197.50 | 1.3 | |
| L2474329-02 | 23-DEC-24 02:38 | DEB WHELAN | S | 78981823 | 69.9024 | 80 | 69.9113 | 69.9111 | | | | 108.75 | 1.3 | |
| L2474329-04 | 23-DEC-24 02:38 | DEB WHELAN | MN | 78981823 | 75.195 | 80 | 75.2034 | 75.2037 | | | | 105.00 | 1.3 | |
| L2474329-05 | 23-DEC-24 02:38 | DEB WHELAN | BA | 78981823 | 76.1369 | 100 | 76.1369 | 76.1369 | | | | 0.00 | 1 | EB |
| L2474716-02 | 23-DEC-24 02:38 | DEB WHELAN | QF | 78981823 | 116.5892 | 80 | 116.6778 | 116.6774 | | | | 1102.50 | 1.3 | |
| WG2012514-1 | 23-DEC-24 02:38 | DEB WHELAN | ES | 78981823 | 59.9372 | 100 | 59.9366 | 59.937 | | | | -6.00 | 1 | T2 |
| WG2012514-2 | 23-DEC-24 02:38 | DEB WHELAN | BV | 78981823 | 109.3376 | 50 | 109.3602 | 109.3611 | 109.3618 | | | 452.00 | 2 | |
| WG2012514-3 | 23-DEC-24 02:38 | DEB WHELAN | BS | 78981823 | 107.2981 | 80 | 107.3114 | 107.3127 | 107.313 | | | 166.25 | 1.3 | |

# Wet Chemistry Gravimetric ELN

Printed: DEC-24-24 11:18:07

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **WorkGroup** | WG2012514 | **Temp In (C)** | 180 | **Temp In (C)** | 180 | **Temp In (C)** | 180 | **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)** |
| **Method** | SM2540C | **Time In** | 24-DEC-24 00:45 | **Time In** | 24-DEC-24 03:50 | **Time In** | 24-DEC-24 06:13 | **Time In** | **Time In** |
| **Instrument** | BALANCE#22 | **Time Out** | 24-DEC-24 02:45 | **Time Out** | 24-DEC-24 05:50 | **Time Out** | 24-DEC-24 08:01 | **Time Out** | **Time Out** |

| **Temp In (C)** | **Time In** |
|---|---|
| 90 | 23-DEC-24 12:05 |

| **LCS Lot #** | **TrueValue** | **Units** |
|---|---|---|
| 121724A | 500 | mg/l |

| **Sample #** | **Analysis Date** | **Analyst** | **Cup ID** | | | **Sample Volume (ml)** | | | | **Result mg/L** | **Dil** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WG2012514-4 | 23-DEC-24 02:38 | DEB WHELAN | BT | 78981823 | 123.7568 | 80 | 123.7619 | 123.7636 | 123.7642 | 63.75 | 1.3 | |

# Wet Chemistry Gravimetric ELN

Printed: DEC-22-24 00:24:29

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **WorkGroup** | WG2011954 | **Temp In (C)** | 180 | **Temp In (C)** | 180 | **Temp In (C)** | **Temp In (C)** | **Temp In (C)** |
| **Title** | Solids, Total Dissolved | **Temp Out (C)** | 180 | **Temp Out (C)** | 180 | **Temp Out (C)** | **Temp Out (C)** | **Temp Out (C)** |
| **Method** | SM2540C | **Time In** | 21-DEC-24 16:00 | **Time In** | 21-DEC-24 20:25 | **Time In** | **Time In** | **Time In** |
| **Instrument** | BALANCE#22 | **Time Out** | 21-DEC-24 19:17 | **Time Out** | 21-DEC-24 23:35 | **Time Out** | **Time Out** | **Time Out** |

| **Evaporation** | **Temp In (C)** | **Time In** |
|---|---|---|
| | 90 | 20-DEC-24 16:15 |

| **LCS Lot #** | **TrueValue** | **Units** |
|---|---|---|
| 121724-A | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L2473429-01 | 20-DEC-24 15:45 | SONJA DAYN | S | | 69.9045 | 80 | 69.9219 | 69.922 | | | | 217.50 | 1.3 | |
| L2473429-02 | 20-DEC-24 15:45 | SONJA DAYN | W4 | | 72.5502 | 80 | 72.5595 | 72.5598 | | | | 116.25 | 1.3 | |
| L2473431-01 | 20-DEC-24 15:45 | SONJA DAYN | SC | | 67.0119 | 80 | 67.0428 | 67.0427 | | | | 385.00 | 1.3 | |
| L2473431-03 | 20-DEC-24 15:45 | SONJA DAYN | BI | | 123.7537 | 80 | 123.7724 | 123.7722 | | | | 231.25 | 1.3 | |
| L2474212-01 | 20-DEC-24 15:45 | SONJA DAYN | BQ2 | | 125.9477 | 80 | 125.9655 | 125.9651 | | | | 217.50 | 1.3 | |
| L2474212-02 | 20-DEC-24 15:45 | SONJA DAYN | BS | | 107.3007 | 80 | 107.3143 | 107.3143 | | | | 170.00 | 1.3 | |
| L2474212-03 | 20-DEC-24 15:45 | SONJA DAYN | BAA | | 112.8984 | 80 | 112.9138 | 112.914 | | | | 192.50 | 1.3 | |
| L2474212-04 | 20-DEC-24 15:45 | SONJA DAYN | BM | | 110.6203 | 80 | 110.6383 | 110.6381 | | | | 222.50 | 1.3 | |
| L2474329-03 | 20-DEC-24 15:45 | SONJA DAYN | BV | | 109.3388 | 80 | 109.3566 | 109.3564 | | | | 220.00 | 1.3 | |
| WG2011954-1 | 20-DEC-24 15:45 | SONJA DAYN | EY | 77340422 | 65.0789 | 100 | 65.0792 | 65.0794 | | | | 3.00 | 1 | |
| WG2011954-2 | 20-DEC-24 15:45 | SONJA DAYN | EJ | | 57.6959 | 50 | 57.7208 | 57.7211 | | | | 498.00 | 2 | |
| WG2011954-3 | 20-DEC-24 15:45 | SONJA DAYN | ES | | 59.9407 | 80 | 59.9485 | 59.9489 | | | | 97.50 | 1.3 | |

# Quality Control

# Form 6
# Lab Duplicates

| | | | | |
|---|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **:** | **L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **:** | **2232.0006Y005** |
| **Client Sample ID** | **: NA** | **Matrix** | **:** | **WATER** |
| **Lab Sample ID** | **: NA** | **Analysis Date** | **:** | **12/20/24 15:45** |
| **Dup Sample ID** | **: WG2011954-3** | **DUP Analysis Date** | **:** | **12/20/24 15:45** |

| Parameter | Sample Concentration (mg/l) | Duplicate Concentration (mg/l) | RPD | RPD Limit |
|---|---|---|---|---|
| Solids, Total Dissolved | 120 | 98. | 20 Q | 10 |

# Form 6
# Lab Duplicates

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Client Sample ID** | **: MW-4S** | **Matrix** | **: WATER** |
| **Lab Sample ID** | **: L2474329-01** | **Analysis Date** | **: 12/23/24 02:38** |
| **Dup Sample ID** | **: WG2012514-3** | **DUP Analysis Date** | **: 12/23/24 02:38** |

| Parameter | Sample Concentration (mg/l) | Duplicate Concentration (mg/l) | RPD | RPD Limit |
|---|---|---|---|---|
| Solids, Total Dissolved | 200 | 170 | 16 Q | 10 |

# Form 6
# Lab Duplicates

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Client Sample ID** | **: MW-4D2** | **Matrix** | **: WATER** |
| **Lab Sample ID** | **: L2474329-02** | **Analysis Date** | **: 12/23/24 02:38** |
| **Dup Sample ID** | **: WG2012514-4** | **DUP Analysis Date** | **: 12/23/24 02:38** |

| Parameter | Sample Concentration (mg/l) | Duplicate Concentration (mg/l) | RPD | RPD Limit |
|---|---|---|---|---|
| Solids, Total Dissolved | 110 | 64. | 53 Q | 10 |

# Form 7
# Laboratory Control Sample

| | | | | | |
|---|---|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | | Project Number | : 2232.0006Y005 |
| Client Sample ID | : NA | | Matrix | : WATER |
| Lab Sample ID | : WG2011954-2 | | LCS Analysis Date | : 12/20/24 15:45 |
| Dup Sample ID | : | | LCSD Analysis Date | : |

| Parameter | Laboratory Control Sample True (mg/l) | Found (mg/l) | %R | Laboratory Control Duplicate True (mg/l) | Found (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Solids, Total Dissolved | 500. | 500. | 100. | | | | | 80-120 | 10 |

# Form 7
# Laboratory Control Sample

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Client Sample ID** | **: NA** | **Matrix** | **: WATER** |
| **Lab Sample ID** | **: WG2012514-2** | **LCS Analysis Date** | **: 12/23/24 02:38** |
| **Dup Sample ID** | **:** | **LCSD Analysis Date** | **:** |

| | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Parameter | True (mg/l) | Found (mg/l) | %R | True (mg/l) | Found (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
| Solids, Total Dissolved | 500. | 450. | 90. | | | | | 80-120 | 10 |

**Date Created:** 11/11/21
**Created By:** Jason Hebert
**File:** PM11467-1
**Page:** 1

**WETCHEM (WATER)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Method | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Solids, Total Dissolved | NONE | 10 | 3.07 | mg/l | 80-120 | | | 10 | 10 | 2540C | 7 days | 1 - Plastic 500ml unpreserved |

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

## <u>Calculations of TDS</u>

$$\text{mgTDS/L} = \frac{(A - B) \times 1000}{\text{Sample volume, (L)}}$$

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 | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-01 | Date Collected | : 12/16/24 11:00 |
| Client ID | : MW-4S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/22/24 12:00 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500SO4-E | Analyst | : MRW |
| Lab File ID | : WG2012370.csv | Instrument ID | : SPEC6 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : 12/22/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 14808-79-8 | Sulfate | 7.5 | 10 | 1.4 | J |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-02 | Date Collected | : 12/16/24 11:50 |
| Client ID | : MW-4D2 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/22/24 12:00 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500SO4-E | Analyst | : MRW |
| Lab File ID | : WG2012370.csv | Instrument ID | : SPEC6 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : 12/22/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 14808-79-8 | Sulfate | 17. | 10 | 1.4 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-03 | Date Collected | : 12/16/24 08:45 |
| Client ID | : MW-12S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/22/24 12:00 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500SO4-E | Analyst | : MRW |
| Lab File ID | : WG2012370.csv | Instrument ID | : SPEC6 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : 12/22/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 14808-79-8 | Sulfate | 11. | 10 | 1.4 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-04 | Date Collected | : 12/16/24 09:33 |
| Client ID | : MW-12D | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/22/24 12:00 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500SO4-E | Analyst | : MRW |
| Lab File ID | : WG2012370.csv | Instrument ID | : SPEC6 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : 12/22/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 14808-79-8 | Sulfate | 16. | 10 | 1.4 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-05 | Date Collected | : 12/16/24 12:00 |
| Client ID | : EB-12162024 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/22/24 12:00 |
| Sample Matrix | : Equipment Blank | Dilution Factor | : 1 |
| Analytical Method | : 121,4500SO4-E | Analyst | : MRW |
| Lab File ID | : WG2012370.csv | Instrument ID | : SPEC6 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : 12/22/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 14808-79-8 | Sulfate | 1.8 | 10 | 1.4 | J |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2012370-1 | Date Collected | : NA |
| Client ID | : WG2012370-1BLANK | Date Received | : NA |
| Sample Location | : | Date Analyzed | : 12/22/24 12:00 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500SO4-E | Analyst | : MRW |
| Lab File ID | : WG2012370.csv | Instrument ID | : SPEC6 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : 12/22/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 14808-79-8 | Sulfate | 1.8 | 10 | 1.4 | J |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2012370-3 | Date Collected | : 12/16/24 10:50 |
| Client ID | : WG2012370-3 DUP | Date Received | : 12/16/24 |
| Sample Location | : | Date Analyzed | : 12/22/24 12:00 |
| Sample Matrix | : WATER | Dilution Factor | : 50 |
| Analytical Method | : 121,4500SO4-E | Analyst | : MRW |
| Lab File ID | : WG2012370.csv | Instrument ID | : SPEC6 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : 12/22/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 14808-79-8 | Sulfate | 1500 | 500 | 68. | |

# 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;wc3437
LCS;wc3373
**Reagent;lot A4251**
Pippette/s: 322, 424
Acrodisk: FJ5503
**Syringe: 2125536**

**Sample Number:** _________________
**Client:** _________________
**Analysis:** **Sulfate, SO4**
**Method:** **SM 4500SO4-E**
**Instrument:** **SPEC6**
**Wavelength:** **420 nm**
**Spike Volume(ml):** **0.5**
**Spike Concentration (mg/l):** **1000**

**Product:** **SO4-4500**
**Curve Calibration Date :** 12/22/24
**Curve Identifier:** 12/22/2024
**Analysis Analyte:** **Sulfate**
**Analysis Date:** 12/22/2024 12:00
**Preparation Date:** 12/22/2024 12:00
**Technician:** MRW
**Work group:** WG2012370
**RL:** **10 mg/l**
**Cell:** **2.5 cm**

| Standard ID | Mean signal (pk area) abs | Dilution | Calc-ed Result |
|---|---|---|---|
| 0 | 0.000 | 1.0 | 1.53 |
| 10 | 0.135 | 1.0 | 8.13 |
| 20 | 0.373 | 1.0 | 19.8 |
| 40 | 0.799 | 1.0 | 40.6 |

**Calibration Curve**
Volume: 25 ml

| Slope | y-intercept |
|---|---|
| 0.020454 | -0.0312 |

**Correlation Coefficient**
0.996451

**ICV/LCS Concentration (mg/l) =** 20.0000

| | Sample number | Sample Volume (ml) | Final Volume (ml) | Bkgd. Abs. | Gross Abs. | Net Absorbance | RESULT (mg/l) | Dilution Factor | RL Multiplier | FINAL RESULT (mg/l) | Recovery |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ICB | 25 | 25 | 0 | 0.004 | 0.004 | 1.833 | 1 | 1.0 | 1.8 | |
| | ICV | 25 | 25 | 0 | 0.369 | 0.369 | 19.551 | 1 | 1.0 | 19.6 | 98% |
| | L2473756-01 | 0.5 | 25 | 0.006 | 0.576 | 0.570 | 29.308 | 1 | 50.0 | 1465.4 | |
| SAMP | L2474329-01 | 25 | 25 | 0.003 | 0.124 | 0.121 | 7.512 | 1 | 1.0 | 7.5 | |
| SAMP | L2474329-02 | 25 | 25 | 0.005 | 0.328 | 0.323 | 17.318 | 1 | 1.0 | 17.3 | |
| SAMP | L2474329-03 | 25 | 25 | 0.006 | 0.197 | 0.191 | 10.910 | 1 | 1.0 | 10.9 | |
| SAMP | L2474329-04 | 25 | 25 | 0.005 | 0.292 | 0.287 | 15.570 | 1 | 1.0 | 15.6 | |
| SAMP | L2474329-05 | 25 | 25 | 0.001 | 0.004 | 0.003 | 1.784 | 1 | 1.0 | 1.8 | |
| | CCV | 25 | 25 | 0 | 0.367 | 0.367 | 19.454 | 1 | 1.0 | 19.5 | |
| | CCB | 25 | 25 | 0 | 0.004 | 0.004 | 1.833 | 1 | 1.0 | 1.8 | |
| | | 25 | 25 | | | | | 1 | 1.0 | | |
| | | 25 | 25 | | | | | 1 | 1.0 | | |
| | | 25 | 25 | | | | | 1 | 1.0 | | |
| | | 25 | 25 | | | | | 1 | 1.0 | | |
| | | 25 | 25 | | | | | 1 | 1.0 | | |
| | | 25 | 25 | | | | | 1 | 1.0 | | |
| | | 25 | 25 | | | | | 1 | 1.0 | | |
| | | 25 | 25 | | | | | 1 | 1.0 | | |
| | | 25 | 25 | | | | | 1 | 1.0 | | |
| | | 25 | 25 | | | | | 1 | 1.0 | | |
| | | 25 | 25 | | | | | 1 | 1.0 | | |
| | | 25 | 25 | | | | | 1 | 1.0 | | |
| BLANK | WG2012370-1 | 25 | 25 | 0.000 | 0.004 | 0.004 | 1.833 | 1 | 1.0 | 1.8 | |
| DUP | WG2012370-3 | 0.5 | 25 | 0.005 | 0.602 | 0.597 | 30.619 | 1 | 50.0 | 1530.9 | L2473756-01 |

| | Sample number | sample volume | Final volume (ml) | Bkgd. Abs. | Gross Abs. | Absorbance | Sample Result mg/l | Spiked Volume | Spike conc. mg/l | Spike Result mg/l | Recovery % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MS | WG2012370-4 | 0.25 | 25 | 0.004 | 0.73 | 0.726 | 1465.400 | 0.25 | 2000.0000 | 3688 | 111 |
| | | | | | | | | | | | L2473756-01 |
| LCS | WG2012370-2 | 25 | 25 | 0 | 0.369 | 0.369 | | 1 | 20.0000 | 20 | 98 |

# Quality Control

# Form 5a
# Matrix Spike

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : | **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : | **L2474329** |
| **Project Name** | : | **CORAM MATERIALS** | **Project Number** | : | **2232.0006Y005** |
| **Client Sample ID** | : | **NA** | **Matrix** | : | **WATER** |
| **Lab Sample ID** | : | **L2473756-01** | | | |
| **Matrix Spike** | : | **WG2012370-4** | **MS Analysis Date** | : | **12/22/24 12:00** |
| **Matrix Spike Dup** | : | | **MSD Analysis Date** | : | |

| | | Matrix Spike Sample | | | Matrix Spike Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Parameter | Sample Conc. (mg/l) | Spike Added (mg/l) | Spike Conc. (mg/l) | %R | Spike Added (mg/l) | Spike Conc. (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
| Sulfate | 1500 | 2000 | 3700 | 109 | | | | | 55-147 | 14 |

# Form 6
# Lab Duplicates

| | | | | |
|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : | L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : | 2232.0006Y005 |
| **Client Sample ID** | : NA | **Matrix** | : | WATER |
| **Lab Sample ID** | : NA | **Analysis Date** | : | 12/22/24 12:00 |
| **Dup Sample ID** | : WG2012370-3 | **DUP Analysis Date** | : | 12/22/24 12:00 |

| Parameter | Sample Concentration (mg/l) | Duplicate Concentration (mg/l) | RPD | RPD Limit |
|---|---|---|---|---|
| Sulfate | 1500 | 1500 | 0 | 14 |

# Form 7
# Laboratory Control Sample

| | | | | |
|---|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | | Project Number | : 2232.0006Y005 |
| Client Sample ID | : NA | | Matrix | : WATER |
| Lab Sample ID | : WG2012370-2 | | LCS Analysis Date | : 12/22/24 12:00 |
| Dup Sample ID | : | | LCSD Analysis Date | : |

| | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Parameter | True (mg/l) | Found (mg/l) | %R | True (mg/l) | Found (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
| Sulfate | 20.0 | 20.0 | 100. | | | | | 90-110 | 14 |

**Date Created:** 11/11/21
**Created By:** Jason Hebert
**File:** PM11467-1
**Page:** 1

**WETCHEM (WATER)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Method | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 14808-79-8 | 10 | 1.37 | mg/l | 90-110 | | 55-147 | 14 | 14 | 4500SO4-E | 28 days | 1 - Plastic 500ml unpreserved |
| Sulfate | 14808-79-8 | 10 | 1.37 | mg/l | 90-110 | | 55-147 | 14 | 14 | 9038 | 28 days | 1 - Plastic 500ml unpreserved |

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

**Date Created:** 11/11/21
**Created By:** Jason Hebert
**File:** PM11468-1
**Page:** 1

**WETCHEM (SOIL)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Method | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 14808-79-8 | 100 | 13.6 | mg/kg | 80-121 | 12 | 22-183 | 12 | 12 | 9038 | 28 days | 1 - Glass 250ml/8oz unpreserved |

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

## Calculations of Sulfate

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve.

$$mgSO_4/L = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

If sample has a background absorbance, it has to be subtracted before calculation.

# Alkalinity Analysis

# Results

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-01 | Date Collected | : 12/16/24 11:00 |
| Client ID | : MW-4S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/19/24 10:00 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,2320B | Analyst | : MKT |
| Lab File ID | : 241219_CSV-1253.csv | Instrument ID | : TITR5 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg CaCO3/L | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 3812-32-6 | Alkalinity, Carbonate | ND | 2.00 | NA | U |
| 71-52-3 | Alkalinity, Bicarbonate | 28.7 | 2.00 | NA | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-02 | Date Collected | : 12/16/24 11:50 |
| Client ID | : MW-4D2 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/19/24 10:02 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,2320B | Analyst | : MKT |
| Lab File ID | : 241219_CSV-1253.csv | Instrument ID | : TITR5 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg CaCO3/L | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 3812-32-6 | Alkalinity, Carbonate | ND | 2.00 | NA | U |
| 71-52-3 | Alkalinity, Bicarbonate | 25.8 | 2.00 | NA | |

# Form 1
# WETCHEM

| | | | | | |
|---|---|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **:** | **L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **:** | **2232.0006Y005** |
| **Lab ID** | **: L2474329-03** | **Date Collected** | **:** | **12/16/24 08:45** |
| **Client ID** | **: MW-12S** | **Date Received** | **:** | **12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **:** | **12/19/24 10:04** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **:** | **1** |
| **Analytical Method** | **: 121,2320B** | **Analyst** | **:** | **MKT** |
| **Lab File ID** | **: 241219_CSV-1253.csv** | **Instrument ID** | **:** | **TITR5** |
| **Sample Amount** | **:** | **%Solids** | **:** | **N/A** |
| **Digestion Method** | **:** | **Date Digested** | **:** | |

| | | mg CaCO3/L | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 3812-32-6 | Alkalinity, Carbonate | ND | 2.00 | NA | U |
| 71-52-3 | Alkalinity, Bicarbonate | 16.9 | 2.00 | NA | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Lab ID** | : **L2474329-04** | **Date Collected** | : **12/16/24 09:33** |
| **Client ID** | : **MW-12D** | **Date Received** | : **12/17/24** |
| **Sample Location** | : **416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | : **12/19/24 10:05** |
| **Sample Matrix** | : **WATER** | **Dilution Factor** | : **1** |
| **Analytical Method** | : **121,2320B** | **Analyst** | : **MKT** |
| **Lab File ID** | : **241219_CSV-1253.csv** | **Instrument ID** | : **TITR5** |
| **Sample Amount** | : | **%Solids** | : **N/A** |
| **Digestion Method** | : | **Date Digested** | : |

| | | mg CaCO3/L | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 3812-32-6 | Alkalinity, Carbonate | ND | 2.00 | NA | U |
| 71-52-3 | Alkalinity, Bicarbonate | 26.7 | 2.00 | NA | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Lab ID** | : L2474329-05 | **Date Collected** | : 12/16/24 12:00 |
| **Client ID** | : EB-12162024 | **Date Received** | : 12/17/24 |
| **Sample Location** | : 416 MILLER PLACE-YAPHANK ROAD | **Date Analyzed** | : 12/19/24 10:07 |
| **Sample Matrix** | : Equipment Blank | **Dilution Factor** | : 1 |
| **Analytical Method** | : 121,2320B | **Analyst** | : MKT |
| **Lab File ID** | : 241219_CSV-1253.csv | **Instrument ID** | : TITR5 |
| **Sample Amount** | : | **%Solids** | : N/A |
| **Digestion Method** | : | **Date Digested** | : |

| | | mg CaCO3/L | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 3812-32-6 | Alkalinity, Carbonate | ND | 2.00 | NA | U |
| 71-52-3 | Alkalinity, Bicarbonate | ND | 2.00 | NA | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2011253-1 | Date Collected | : NA |
| Client ID | : WG2011253-1BLANK | Date Received | : NA |
| Sample Location | : | Date Analyzed | : 12/19/24 09:15 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,2320B | Analyst | : MKT |
| Lab File ID | : 241219_CSV-1253.csv | Instrument ID | : TITR5 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg CaCO3/L | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 3812-32-6 | Alkalinity, Carbonate | ND | 2.00 | NA | U |
| 71-52-3 | Alkalinity, Bicarbonate | ND | 2.00 | NA | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2011253-2 | Date Collected | : 12/13/24 08:20 |
| Client ID | : WG2011253-2 DUP | Date Received | : 12/13/24 |
| Sample Location | : | Date Analyzed | : 12/19/24 09:50 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,2320B | Analyst | : MKT |
| Lab File ID | : 241219_CSV-1253.csv | Instrument ID | : TITR5 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg CaCO3/L | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 71-52-3 | Alkalinity, Bicarbonate | 98.6 | 2.00 | NA | |
| 3812-32-6 | Alkalinity, Carbonate | ND | 2.00 | NA | U |

# Sample Raw Data

# Results Editor

LabX

## Result Overview

| Sample start t | Zero poin | Unit of Ze | Data marl | Slope 1 (( | Unit of Sl | Data marl | Sensor ty | List of sta | Standard | Comment | Temperat |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6.927 | pH | | -57.68 | mV/pH | | | | | | |

# Results Editor

LabX

## Result Overview

| Sample ID1 | Potentia | Unit of P | Data ma | Sample start | Volume | Unit of V | Density [ | Unit of D | Cor | Uni | Tempera | Unit of T | Commer |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -- | 7.00 | pH | | 12/19/2024 | 0 | mL | 1.0 | g/mL | 1.0 | | 25.0 | °C | |

# Titration report

LabX

## Method

| | | | |
|---|---|---|---|
| **Method ID** | Alk Total (2) | **Release state** | Released |
| **Name** | EP/EP | **Modified by** | SystemInternal |
| **Modified on** | 10/14/2023 11:44:43 AM | | |

## Summary

### Samples

| | Sample ID | Name | Result | State |
|---|---|---|---|---|
| 1 | Rinse,MKT | Sample size | 50 mL | |
| | | Potential R4 | 7.10 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 0.917 mL | OK |
| | | Consumption 4.2 R3 | 0.921 mL | OK |
| | | Content R5 | 18.340 mg/L | OK |
| | | ALK LOW R6 | 18.260 mg/L | OK |
| 2 | Rinse,MKT | Sample size | 50 mL | |
| | | Potential R4 | 4.73 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 0.024 mL | OK |
| | | Consumption 4.2 R3 | 0.029 mL | OK |
| | | Content R5 | 0.480 mg/L | OK |
| | | ALK LOW R6 | 0.380 mg/L | OK |
| 3 | WG2011253-1 | Sample size | 50 mL | |
| | | Potential R4 | 4.67 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 0.012 mL | OK |
| | | Consumption 4.2 R3 | 0.019 mL | OK |
| | | Content R5 | 0.240 mg/L | OK |
| | | ALK LOW R6 | 0.100 mg/L | OK |
| 4 | xLCS | Sample size | 50 mL | |
| | | Potential R4 | 10.73 pH | OK |
| | | Consumption 8.3 R1 | 4.629 mL | OK |
| | | Consumption 4.5 R2 | 5.033 mL | OK |
| | | Consumption 4.2 R3 | 5.038 mL | OK |
| | | Content R5 | 100.660 mg/L | OK |
| | | ALK LOW R6 | 100.560 mg/L | OK |
| 5 | I2473420-01 | Sample size | 50 mL | |
| | | Potential R4 | 6.26 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | NaN mL | Not OK |
| | | Consumption 4.2 R3 | NaN mL | Not OK |
| | | Content R5 | NaN mg/L | Not OK |
| | | ALK LOW R6 | NaN mg/L | Not OK |
| 6 | I2473420-02 | Sample size | 50 mL | |

# Titration report

| | | | | |
|---|---|---|---|---|
| | | Potential R4 | 6.43 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 |
| 7 | I2473420-03 | Sample size | 50 mL | |
| | | Potential R4 | 6.82 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 16.663 mL | OK |
| | | Consumption 4.2 R3 | 16.809 mL | OK |
| | | Content R5 | 333.260 mg/L | OK |
| | | ALK LOW R6 | 330.340 mg/L | OK |
| 8 | I2473538-01 | Sample size | 50 mL | |
| | | Potential R4 | 5.68 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 4.815 mL | OK |
| | | Consumption 4.2 R3 | 4.879 mL | OK |
| | | Content R5 | 96.300 mg/L | OK |
| | | ALK LOW R6 | 95.020 mg/L | OK |
| 9 | WG2011253-2 | Sample size | 50 mL | |
| | | Potential R4 | 5.65 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 4.928 mL | OK |
| | | Consumption 4.2 R3 | 5.008 mL | OK |
| | | Content R5 | 98.560 mg/L | OK |
| | | ALK LOW R6 | 96.960 mg/L | OK |
| 10 | L2473538-02 | Sample size | 50 mL | |
| | | Potential R4 | 5.34 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 1.425 mL | OK |
| | | Consumption 4.2 R3 | 1.449 mL | OK |
| | | Content R5 | 28.500 mg/L | OK |
| | | ALK LOW R6 | 28.020 mg/L | OK |
| 11 | L2473538-03 | Sample size | 50 mL | |
| | | Potential R4 | 5.28 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 1.135 mL | OK |
| | | Consumption 4.2 R3 | 1.158 mL | OK |
| | | Content R5 | 22.700 mg/L | OK |
| | | ALK LOW R6 | 22.240 mg/L | OK |
| 12 | L2473538-04 | Sample size | 50 mL | |
| | | Potential R4 | 5.13 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 0.927 mL | OK |
| | | Consumption 4.2 R3 | 0.971 mL | OK |
| | | Content R5 | 18.540 mg/L | OK |

# Titration report

LabX

| | | | | |
|---|---|---|---|---|
| | | ALK LOW R6 | 17.660 mg/L | OK |
| 13 | L2473538-05 | Sample size | 50 mL | |
| | | Potential R4 | 5.50 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 2.089 mL | OK |
| | | Consumption 4.2 R3 | 2.102 mL | OK |
| | | Content R5 | 41.780 mg/L | OK |
| | | ALK LOW R6 | 41.520 mg/L | OK |
| 14 | L2474329-01 | Sample size | 50 mL | |
| | | Potential R4 | 5.26 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 1.437 mL | OK |
| | | Consumption 4.2 R3 | 1.474 mL | OK |
| | | Content R5 | 28.740 mg/L | OK |
| | | ALK LOW R6 | 28.000 mg/L | OK |
| 15 | L2474329-02 | Sample size | 50 mL | |
| | | Potential R4 | 5.27 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 1.288 mL | OK |
| | | Consumption 4.2 R3 | 1.310 mL | OK |
| | | Content R5 | 25.760 mg/L | OK |
| | | ALK LOW R6 | 25.320 mg/L | OK |
| 16 | L2474329-03 | Sample size | 50 mL | |
| | | Potential R4 | 5.14 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 0.888 mL | OK |
| | | Consumption 4.2 R3 | 0.930 mL | OK |
| | | Content R5 | 17.760 mg/L | OK |
| | | ALK LOW R6 | 16.920 mg/L | OK |
| 17 | L2474329-04 | Sample size | 50 mL | |
| | | Potential R4 | 5.26 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 1.334 mL | OK |
| | | Consumption 4.2 R3 | 1.375 mL | OK |
| | | Content R5 | 26.680 mg/L | OK |
| | | ALK LOW R6 | 25.860 mg/L | OK |
| 18 | L2474329-05 | Sample size | 50 mL | |
| | | Potential R4 | 5.22 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 0.082 mL | OK |
| | | Consumption 4.2 R3 | 0.105 mL | OK |
| | | Content R5 | 1.640 mg/L | OK |
| | | ALK LOW R6 | 1.180 mg/L | OK |
| 19 | L2473420-01 2x +10 | Sample size | 50 mL | |
| | | Potential R4 | 5.80 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 9.239 mL | OK |

# Titration report

LabX

| | | | | |
|---|---|---|---|---|
| | | Consumption 4.2 R3 | 9.405 mL | OK |
| | | Content R5 | 184.780 mg/L | OK |
| | | ALK LOW R6 | 181.460 mg/L | OK |
| 20 | L2473420-02 2x +10 | Sample size | 50 mL | |
| | | Potential R4 | 5.36 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 2.283 mL | OK |
| | | Consumption 4.2 R3 | 2.558 mL | OK |
| | | Content R5 | 45.660 mg/L | OK |
| | | ALK LOW R6 | 40.160 mg/L | OK |
| 21 | l2473423-08 | Sample size | 50 mL | |
| | | Potential R4 | 6.95 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 1.559 mL | OK |
| | | Consumption 4.2 R3 | 1.831 mL | OK |
| | | Content R5 | 31.180 mg/L | OK |
| | | ALK LOW R6 | 25.740 mg/L | OK |
| 22 | CCV | Sample size | 50 mL | |
| | | Potential R4 | 11.29 pH | OK |
| | | Consumption 8.3 R1 | 4.701 mL | OK |
| | | Consumption 4.5 R2 | 5.105 mL | OK |
| | | Consumption 4.2 R3 | 5.110 mL | OK |
| | | Content R5 | 102.100 mg/L | OK |
| | | ALK LOW R6 | 102.000 mg/L | OK |
| 23 | CCB | Sample size | 50 mL | |
| | | Potential R4 | 5.45 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 0.051 mL | OK |
| | | Consumption 4.2 R3 | 0.062 mL | OK |
| | | Content R5 | 1.020 mg/L | OK |
| | | ALK LOW R6 | 0.800 mg/L | OK |
| 24 | l2473484-01 | Sample size | 50 mL | |
| | | Potential R4 | 5.49 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 2.532 mL | OK |
| | | Consumption 4.2 R3 | 2.577 mL | OK |
| | | Content R5 | 50.640 mg/L | OK |
| | | ALK LOW R6 | 49.740 mg/L | OK |
| 25 | l2474161-01 | Sample size | 50 mL | |
| | | Potential R4 | 5.37 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 2.230 mL | OK |
| | | Consumption 4.2 R3 | 2.284 mL | OK |
| | | Content R5 | 44.600 mg/L | OK |
| | | ALK LOW R6 | 43.520 mg/L | OK |
| 26 | l2474624-01 | Sample size | 50 mL | |
| | | Potential R4 | 9.12 pH | OK |

# Titration report

LabX

| | | | | |
|---|---|---|---|---|
| | | Consumption 8.3 R1 | 7.091 mL | 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 |
| 27 | I2474624-02 | Sample size | 50 mL | |
| | | Potential R4 | 11.75 pH | OK |
| | | Consumption 8.3 R1 | 18.808 mL | OK |
| | | Consumption 4.5 R2 | 19.500 mL | OK |
| | | Consumption 4.2 R3 | 19.516 mL | OK |
| | | Content R5 | 390.000 mg/L | OK |
| | | ALK LOW R6 | 389.680 mg/L | OK |
| 28 | WG2011364-3 | Sample size | 50 mL | |
| | | Potential R4 | 11.74 pH | OK |
| | | Consumption 8.3 R1 | 18.775 mL | OK |
| | | Consumption 4.5 R2 | 19.473 mL | OK |
| | | Consumption 4.2 R3 | 19.486 mL | OK |
| | | Content R5 | 389.460 mg/L | OK |
| | | ALK LOW R6 | 389.200 mg/L | OK |
| 29 | WG2011364-4 | Sample size | 50 mL | |
| | | Potential R4 | 11.80 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 |
| 30 | I2474624-03 | Sample size | 50 mL | |
| | | Potential R4 | 12.06 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 |
| 31 | I2474624-04 2x+25 | Sample size | 50 mL | |
| | | Potential R4 | 11.43 pH | OK |
| | | Consumption 8.3 R1 | 7.305 mL | OK |
| | | Consumption 4.5 R2 | 7.938 mL | OK |
| | | Consumption 4.2 R3 | 7.939 mL | OK |
| | | Content R5 | 158.760 mg/L | OK |
| | | ALK LOW R6 | 158.740 mg/L | OK |
| 32 | I2474624-01 2x+10 | Sample size | 50 mL | |
| | | Potential R4 | 5.66 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 4.395 mL | OK |
| | | Consumption 4.2 R3 | 4.610 mL | OK |
| | | Content R5 | 87.900 mg/L | OK |
| | | ALK LOW R6 | 83.600 mg/L | OK |

# Titration report

LabX

| | | | | |
|---|---|---|---|---|
| 33 | WG2011364-4 2x+10 | Sample size | 50 mL | |
| | | Potential R4 | 10.99 pH | OK |
| | | Consumption 8.3 R1 | 4.493 mL | OK |
| | | Consumption 4.5 R2 | 5.118 mL | OK |
| | | Consumption 4.2 R3 | 5.124 mL | OK |
| | | Content R5 | 102.360 mg/L | OK |
| | | ALK LOW R6 | 102.240 mg/L | OK |
| 34 | I2474624-03 2x+20 | Sample size | 50 mL | |
| | | Potential R4 | 12.25 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 |
| 35 | CCV | Sample size | 50 mL | |
| | | Potential R4 | 11.33 pH | OK |
| | | Consumption 8.3 R1 | 4.769 mL | OK |
| | | Consumption 4.5 R2 | 5.219 mL | OK |
| | | Consumption 4.2 R3 | 5.223 mL | OK |
| | | Content R5 | 104.380 mg/L | OK |
| | | ALK LOW R6 | 104.300 mg/L | OK |
| 36 | WG2011364-1 | Sample size | 50 mL | |
| | | Potential R4 | 5.34 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 0.048 mL | OK |
| | | Consumption 4.2 R3 | 0.063 mL | OK |
| | | Content R5 | 0.960 mg/L | OK |
| | | ALK LOW R6 | 0.660 mg/L | OK |
| 37 | I2472986-01 | Sample size | 50 mL | |
| | | Potential R4 | 5.12 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 0.685 mL | OK |
| | | Consumption 4.2 R3 | 0.733 mL | OK |
| | | Content R5 | 13.700 mg/L | OK |
| | | ALK LOW R6 | 12.740 mg/L | OK |
| 38 | I2472986-02 | Sample size | 50 mL | |
| | | Potential R4 | 4.84 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 0.204 mL | OK |
| | | Consumption 4.2 R3 | 0.245 mL | OK |
| | | Content R5 | 4.080 mg/L | OK |
| | | ALK LOW R6 | 3.260 mg/L | OK |
| 39 | I2473087-01 | Sample size | 50 mL | |
| | | Potential R4 | 5.95 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 5.719 mL | OK |
| | | Consumption 4.2 R3 | 5.754 mL | OK |

# Titration report

| | | | | |
|---|---|---|---|---|
| | | Content R5 | 114.380 mg/L | OK |
| | | ALK LOW R6 | 113.680 mg/L | OK |
| 40 | I2473094-01 | Sample size | 50 mL | |
| | | Potential R4 | 6.30 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 6.918 mL | OK |
| | | Consumption 4.2 R3 | 6.952 mL | OK |
| | | Content R5 | 138.360 mg/L | OK |
| | | ALK LOW R6 | 137.680 mg/L | OK |
| 41 | I2473740-01 | Sample size | 50 mL | |
| | | Potential R4 | 5.56 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 1.846 mL | OK |
| | | Consumption 4.2 R3 | 1.864 mL | OK |
| | | Content R5 | 36.920 mg/L | OK |
| | | ALK LOW R6 | 36.560 mg/L | OK |
| 42 | WG2011409-3 | Sample size | 50 mL | |
| | | Potential R4 | 5.56 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 1.855 mL | OK |
| | | Consumption 4.2 R3 | 1.871 mL | OK |
| | | Content R5 | 37.100 mg/L | OK |
| | | ALK LOW R6 | 36.780 mg/L | OK |
| 43 | WG2011409-4 | Sample size | 50 mL | |
| | | Potential R4 | 10.47 pH | OK |
| | | Consumption 8.3 R1 | 5.413 mL | OK |
| | | Consumption 4.5 R2 | 7.517 mL | OK |
| | | Consumption 4.2 R3 | 7.524 mL | OK |
| | | Content R5 | 150.340 mg/L | OK |
| | | ALK LOW R6 | 150.200 mg/L | OK |
| 44 | I2473740-02 | Sample size | 50 mL | |
| | | Potential R4 | 5.54 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 2.213 mL | OK |
| | | Consumption 4.2 R3 | 2.233 mL | OK |
| | | Content R5 | 44.260 mg/L | OK |
| | | ALK LOW R6 | 43.860 mg/L | OK |
| 45 | I2473740-03 | Sample size | 50 mL | |
| | | Potential R4 | 5.69 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 2.820 mL | OK |
| | | Consumption 4.2 R3 | 2.838 mL | OK |
| | | Content R5 | 56.400 mg/L | OK |
| | | ALK LOW R6 | 56.040 mg/L | OK |
| 46 | I2473740-04 | Sample size | 50 mL | |
| | | Potential R4 | 5.71 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |

# Titration report

| | | | | |
|---|---|---|---|---|
| | | Consumption 4.5 R2 | 4.103 mL | OK |
| | | Consumption 4.2 R3 | 4.130 mL | OK |
| | | Content R5 | 82.060 mg/L | OK |
| | | ALK LOW R6 | 81.520 mg/L | OK |
| 47 | I2473740-05 | Sample size | 50 mL | |
| | | Potential R4 | 5.96 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 4.330 mL | OK |
| | | Consumption 4.2 R3 | 4.359 mL | OK |
| | | Content R5 | 86.600 mg/L | OK |
| | | ALK LOW R6 | 86.020 mg/L | OK |
| 48 | I2473740-06 | Sample size | 50 mL | |
| | | Potential R4 | 5.87 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 4.057 mL | OK |
| | | Consumption 4.2 R3 | 4.081 mL | OK |
| | | Content R5 | 81.140 mg/L | OK |
| | | ALK LOW R6 | 80.660 mg/L | OK |
| 49 | I2473740-07 | Sample size | 50 mL | |
| | | Potential R4 | 5.84 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 4.196 mL | OK |
| | | Consumption 4.2 R3 | 4.224 mL | OK |
| | | Content R5 | 83.920 mg/L | OK |
| | | ALK LOW R6 | 83.360 mg/L | OK |
| 50 | I2473740-08 | Sample size | 50 mL | |
| | | Potential R4 | 5.86 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 4.418 mL | OK |
| | | Consumption 4.2 R3 | 4.447 mL | OK |
| | | Content R5 | 88.360 mg/L | OK |
| | | ALK LOW R6 | 87.780 mg/L | OK |
| 51 | I2473740-09 | Sample size | 50 mL | |
| | | Potential R4 | 5.85 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 4.232 mL | OK |
| | | Consumption 4.2 R3 | 4.260 mL | OK |
| | | Content R5 | 84.640 mg/L | OK |
| | | ALK LOW R6 | 84.080 mg/L | OK |
| 52 | I2473740-10 | Sample size | 50 mL | |
| | | Potential R4 | 5.61 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 1.866 mL | OK |
| | | Consumption 4.2 R3 | 1.877 mL | OK |
| | | Content R5 | 37.320 mg/L | OK |
| | | ALK LOW R6 | 37.100 mg/L | OK |
| 53 | I2473740-11 | Sample size | 50 mL | |

# Titration report

LabX

| | | | | |
|---|---|---|---|---|
| | | Potential R4 | 5.11 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 0.068 mL | OK |
| | | Consumption 4.2 R3 | 0.089 mL | OK |
| | | Content R5 | 1.360 mg/L | OK |
| | | ALK LOW R6 | 0.940 mg/L | OK |
| 54 | I2473740-11 CONF | Sample size | 50 mL | |
| | | Potential R4 | 4.89 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 0.043 mL | OK |
| | | Consumption 4.2 R3 | 0.068 mL | OK |
| | | Content R5 | 0.860 mg/L | OK |
| | | ALK LOW R6 | 0.360 mg/L | OK |
| 55 | I2473740-12 | Sample size | 50 mL | |
| | | Potential R4 | 5.74 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 4.069 mL | OK |
| | | Consumption 4.2 R3 | 4.101 mL | OK |
| | | Content R5 | 81.380 mg/L | OK |
| | | ALK LOW R6 | 80.740 mg/L | OK |
| 56 | I2473740-13 | Sample size | 50 mL | |
| | | Potential R4 | 5.89 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 4.058 mL | OK |
| | | Consumption 4.2 R3 | 4.089 mL | OK |
| | | Content R5 | 81.160 mg/L | OK |
| | | ALK LOW R6 | 80.540 mg/L | OK |
| 57 | I2473740-14 | Sample size | 50 mL | |
| | | Potential R4 | 5.72 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 2.360 mL | OK |
| | | Consumption 4.2 R3 | 2.373 mL | OK |
| | | Content R5 | 47.200 mg/L | OK |
| | | ALK LOW R6 | 46.940 mg/L | OK |
| 58 | I2473740-15 | Sample size | 50 mL | |
| | | Potential R4 | 5.63 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 2.123 mL | OK |
| | | Consumption 4.2 R3 | 2.135 mL | OK |
| | | Content R5 | 42.460 mg/L | OK |
| | | ALK LOW R6 | 42.220 mg/L | OK |
| 59 | I2473740-16 | Sample size | 50 mL | |
| | | Potential R4 | 5.65 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 1.901 mL | OK |
| | | Consumption 4.2 R3 | 1.915 mL | OK |
| | | Content R5 | 38.020 mg/L | OK |

# Titration report

LabX

| | | | | |
|---|---|---|---|---|
| | | ALK LOW R6 | 37.740 mg/L | OK |
| 60 | I2474624-03 2x+10 | Sample size | 50 mL | |
| | | Potential R4 | 11.41 pH | OK |
| | | Consumption 8.3 R1 | 6.533 mL | OK |
| | | Consumption 4.5 R2 | 6.972 mL | OK |
| | | Consumption 4.2 R3 | 6.980 mL | OK |
| | | Content R5 | 139.440 mg/L | OK |
| | | ALK LOW R6 | 139.280 mg/L | OK |
| 61 | I2474624-03 2x+10 CONF | Sample size | 50 mL | |
| | | Potential R4 | 11.56 pH | OK |
| | | Consumption 8.3 R1 | 8.322 mL | OK |
| | | Consumption 4.5 R2 | 8.851 mL | OK |
| | | Consumption 4.2 R3 | 8.857 mL | OK |
| | | Content R5 | 177.020 mg/L | OK |
| | | ALK LOW R6 | 176.900 mg/L | OK |
| 62 | I2473734-01 | Sample size | 50 mL | |
| | | Potential R4 | 6.05 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 7.737 mL | OK |
| | | Consumption 4.2 R3 | 7.796 mL | OK |
| | | Content R5 | 154.740 mg/L | OK |
| | | ALK LOW R6 | 153.560 mg/L | OK |
| 63 | WG2011450-3 | Sample size | 50 mL | |
| | | Potential R4 | 6.14 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 7.772 mL | OK |
| | | Consumption 4.2 R3 | 7.830 mL | OK |
| | | Content R5 | 155.440 mg/L | OK |
| | | ALK LOW R6 | 154.280 mg/L | OK |
| 64 | WG2011450-4 | Sample size | 50 mL | |
| | | Potential R4 | 9.78 pH | OK |
| | | Consumption 8.3 R1 | 5.082 mL | OK |
| | | Consumption 4.5 R2 | 12.844 mL | OK |
| | | Consumption 4.2 R3 | 12.882 mL | OK |
| | | Content R5 | 256.880 mg/L | OK |
| | | ALK LOW R6 | 256.120 mg/L | OK |
| 65 | I2473927-02 | Sample size | 50 mL | |
| | | Potential R4 | 5.88 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 6.150 mL | OK |
| | | Consumption 4.2 R3 | 6.195 mL | OK |
| | | Content R5 | 123.000 mg/L | OK |
| | | ALK LOW R6 | 122.100 mg/L | OK |
| 66 | WG2011450-2 | Sample size | 50 mL | |
| | | Potential R4 | 10.88 pH | OK |
| | | Consumption 8.3 R1 | 4.553 mL | OK |
| | | Consumption 4.5 R2 | 4.912 mL | OK |

# Titration report

LabX

| | | | | |
|---|---|---|---|---|
| | | Consumption 4.2 R3 | 4.915 mL | OK |
| | | Content R5 | 98.240 mg/L | OK |
| | | ALK LOW R6 | 98.180 mg/L | OK |
| 67 | WG2011450-1 | Sample size | 50 mL | |
| | | Potential R4 | 5.21 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 0.039 mL | OK |
| | | Consumption 4.2 R3 | 0.049 mL | OK |
| | | Content R5 | 0.780 mg/L | OK |
| | | ALK LOW R6 | 0.580 mg/L | OK |
| 68 | WG2011409-2 | Sample size | 50 mL | |
| | | Potential R4 | 10.81 pH | OK |
| | | Consumption 8.3 R1 | 4.501 mL | OK |
| | | Consumption 4.5 R2 | 4.858 mL | OK |
| | | Consumption 4.2 R3 | 4.866 mL | OK |
| | | Content R5 | 97.160 mg/L | OK |
| | | ALK LOW R6 | 97.000 mg/L | OK |
| 69 | WG2011409-1 | Sample size | 50 mL | |
| | | Potential R4 | 5.26 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 0.035 mL | OK |
| | | Consumption 4.2 R3 | 0.047 mL | OK |
| | | Content R5 | 0.700 mg/L | OK |
| | | ALK LOW R6 | 0.460 mg/L | OK |
| 70 | X | Sample size | 50 mL | |
| | | Potential R4 | 4.62 pH | OK |
| | | Consumption 8.3 R1 | NaN mL | Not OK |
| | | Consumption 4.5 R2 | 0.004 mL | OK |
| | | Consumption 4.2 R3 | 0.071 mL | OK |
| | | Content R5 | 0.080 mg/L | OK |
| | | ALK LOW R6 | -1.260 mg/L | OK |

# Statistics

## R1

| | | | |
|---|---|---|---|
| **Mean** | NaN mL | | |
| **Maximum** | 18.808 mL | **Minimum** | 4.493 mL |
| **Standard deviation** | NaN mL | **Rel. standard deviation** | NaN % |
| **Total samples** | 70 | **Samples excluded** | 0 |

## R2

| | | | |
|---|---|---|---|
| **Mean** | NaN mL | | |
| **Maximum** | 19.500 mL | **Minimum** | 0.004 mL |
| **Standard deviation** | NaN mL | **Rel. standard deviation** | NaN % |
| **Total samples** | 70 | **Samples excluded** | 0 |

# Titration report

LabX

## R3

| | | | |
|---|---|---|---|
| **Mean** | NaN mL | | |
| **Maximum** | 19.516 mL | **Minimum** | 0.019 mL |
| **Standard deviation** | NaN mL | **Rel. standard deviation** | NaN % |
| **Total samples** | 70 | **Samples excluded** | 0 |

## R4

| | | | |
|---|---|---|---|
| **Mean** | 6.95 pH | | |
| **Maximum** | 12.25 pH | **Minimum** | 4.62 pH |
| **Standard deviation** | 2.46 pH | **Rel. standard deviation** | 35.434 % |
| **Total samples** | 70 | **Samples excluded** | 0 |

## R5

| | | | |
|---|---|---|---|
| **Mean** | NaN mg/L | | |
| **Maximum** | 390.000 mg/L | **Minimum** | 0.080 mg/L |
| **Standard deviation** | NaN mg/L | **Rel. standard deviation** | NaN % |
| **Total samples** | 70 | **Samples excluded** | 0 |

## R6

| | | | |
|---|---|---|---|
| **Mean** | NaN mg/L | | |
| **Maximum** | 389.680 mg/L | **Minimum** | -1.260 mg/L |
| **Standard deviation** | NaN mg/L | **Rel. standard deviation** | NaN % |
| **Total samples** | 70 | **Samples excluded** | 0 |

# Used Instruments

| | | | |
|---|---|---|---|
| **Name** | T7 Excellence Titrator | **Serial number** | C329519495 |

# Responsible User

| Time | Login name | Full name |
|---|---|---|
| 12/19/2024 9:12:31 AM | SystemInternal | System internal account |

(17) Data compression on instrument occurred

# Quality Control

# Form 6
# Lab Duplicates

| | | | | | |
|---|---|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | | Lab Number | : | L2474329 |
| Project Name | : CORAM MATERIALS | | Project Number | : | 2232.0006Y005 |
| Client Sample ID | : NA | | Matrix | : | WATER |
| Lab Sample ID | : NA | | Analysis Date | : | 12/19/24 09:47 |
| Dup Sample ID | : WG2011253-2 | | DUP Analysis Date | : | 12/19/24 09:50 |

| Parameter | Sample Concentration (mg CaCO3/L) | Duplicate Concentration (mg CaCO3/L) | RPD | RPD Limit |
|---|---|---|---|---|
| Alkalinity, Carbonate | ND | ND | NC | 10 |
| Alkalinity, Bicarbonate | 96.3 | 98.6 | 2 | 9 |

**Date Created:** 11/11/21
**Created By:** Jason Hebert
**File:** PM11467-1
**Page:** 1

**WETCHEM (WATER)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Method | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | 471-34-1 | 2 | | mg CaCO3/L | 90-110 | 10 | 86-116 | 10 | 10 | 2320B | 14 days | 1 - Plastic 250ml unpreserved/No Headspace |

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

## Calculations of Alkalinity

$$\text{Alkalinity, mg } CaCO_3/L = \frac{A \times N \times 50{,}000}{\text{mL Sample}}$$

Where:

A = mL of the standard acid titrated

N = normality of the standard acid

Results are calculated using Mettler Toledo software.

Standard sample size is 50mL, 0.02N Sulfuric acid for titration

# Sequence Logs

| | | | | | |
|---|---|---|---|---|---|
| CAL | 241219 | LCS 7.03 | 7 | INT: | mkt |
| pH 4 | 3484 | Titrant: | 4193 | | |
| pH 7 | 3386 | LCS: | 3530 | | |
| pH 10 | 3482 | MS: | 3529 | | |
| LCS | 3485 | | | | |

| | | | |
|---|---|---|---|
| 1 | Rinse,MKT | 42 | WG2011409-3 |
| 2 | Rinse,MKT | 43 | WG2011409-4 |
| 3 | WG2011253-1 | 44 | l2473740-02 |
| 4 | xLCS | 45 | l2473740-03 |
| 5 | l2473420-01 | 46 | l2473740-04 |
| 6 | l2473420-02 | 47 | l2473740-05 |
| 7 | l2473420-03 | 48 | l2473740-06 |
| 8 | l2473538-01 | 49 | l2473740-07 |
| 9 | WG2011253-2 | 50 | l2473740-08 |
| 10 | l2473538-02 | 51 | l2473740-09 |
| 11 | l2473538-03 | 52 | l2473740-10 |
| 12 | l2473538-04 | 53 | l2473740-11 |
| 13 | l2473538-05 | 54 | l2473740-11 CONF |
| 14 | l2474329-01 | 55 | l2473740-12 |
| 15 | l2474329-02 | 56 | l2473740-13 |
| 16 | l2474329-03 | 57 | l2473740-14 |
| 17 | l2474329-04 | 58 | l2473740-15 |
| 18 | l2474329-05 | 59 | l2473740-16 |
| 19 | l2473420-01 2x+10 | 60 | l2474624-03 2x+10 |
| 20 | l2473420-02 2x+10 | 61 | l2474624-03 2x+10 CONF |
| 21 | l2473423-08 | 62 | l2473734-01 |
| 22 | CCV | 63 | WG2011450-3 |
| 23 | CCB | 64 | WG2011450-4 |
| 24 | l2473484-01 | 65 | l2473927-02 |
| 25 | l2474161-01 | 66 | WG2011450-2 |
| 26 | l2474624-01 | 67 | WG2011450-1 |
| 27 | l2474624-02 | 68 | WG2011409-2 |
| 28 | WG2011364-3 | 69 | WG2011409-1 |
| 29 | WG2011364-4 | 70 | X |
| 30 | l2474624-03 | 71 | |
| 31 | l2474624-04 2x+25 | 72 | |
| 32 | l2474624-01 2x+10 | 73 | |
| 33 | WG2011364-4 2x+10 | | |
| 34 | l2474624-03 2x+20 | | |
| 35 | CCV | | |
| 36 | WG2011364-1 | | |
| 37 | l2472986-01 | | |
| 38 | l2472986-02 | | |
| 39 | l2473087-01 | | |
| 40 | l2473094-01 | | |
| 41 | l2473740-01 | | |

# Chloride Analysis

# Results

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Lab ID** | : **L2474329-01** | **Date Collected** | : **12/16/24 11:00** |
| **Client ID** | : **MW-4S** | **Date Received** | : **12/17/24** |
| **Sample Location** | : **416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | : **12/23/24 17:36** |
| **Sample Matrix** | : **WATER** | **Dilution Factor** | : **1** |
| **Analytical Method** | : **121,4500CL-E** | **Analyst** | : **JER** |
| **Lab File ID** | : **CL241223-A** | **Instrument ID** | : **LACHAT3** |
| **Sample Amount** | : | **%Solids** | : **N/A** |
| **Digestion Method** | : | **Date Digested** | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 16887-00-6 | Chloride | 74. | 1.0 | 0.89 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-02 | Date Collected | : 12/16/24 11:50 |
| Client ID | : MW-4D2 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/23/24 19:17 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500CL-E | Analyst | : JER |
| Lab File ID | : CL241223-A1 | Instrument ID | : LACHAT3 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 16887-00-6 | Chloride | 12. | 1.0 | 0.89 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-03 | Date Collected | : 12/16/24 08:45 |
| Client ID | : MW-12S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/23/24 17:42 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500CL-E | Analyst | : JER |
| Lab File ID | : CL241223-A | Instrument ID | : LACHAT3 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 16887-00-6 | Chloride | 85. | 1.0 | 0.89 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-04 | Date Collected | : 12/16/24 09:33 |
| Client ID | : MW-12D | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/23/24 17:43 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500CL-E | Analyst | : JER |
| Lab File ID | : CL241223-A | Instrument ID | : LACHAT3 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 16887-00-6 | Chloride | 18. | 1.0 | 0.89 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-05** | **Date Collected** | **: 12/16/24 12:00** |
| **Client ID** | **: EB-12162024** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/23/24 17:44** |
| **Sample Matrix** | **: Equipment Blank** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 121,4500CL-E** | **Analyst** | **: JER** |
| **Lab File ID** | **: CL241223-A** | **Instrument ID** | **: LACHAT3** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **:** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 16887-00-6 | Chloride | ND | 1.0 | 0.89 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: WG2012790-1** | **Date Collected** | **: NA** |
| **Client ID** | **: WG2012790-1BLANK** | **Date Received** | **: NA** |
| **Sample Location** | **:** | **Date Analyzed** | **: 12/23/24 16:48** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 121,4500CL-E** | **Analyst** | **: JER** |
| **Lab File ID** | **: CL241223-A** | **Instrument ID** | **: LACHAT3** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **:** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 16887-00-6 | Chloride | ND | 1.0 | 0.89 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Lab ID** | : WG2012790-3 | **Date Collected** | : 12/16/24 11:00 |
| **Client ID** | : MW-4SDUP | **Date Received** | : 12/17/24 |
| **Sample Location** | : | **Date Analyzed** | : 12/23/24 17:37 |
| **Sample Matrix** | : WATER | **Dilution Factor** | : 1 |
| **Analytical Method** | : 121,4500CL-E | **Analyst** | : JER |
| **Lab File ID** | : CL241223-A | **Instrument ID** | : LACHAT3 |
| **Sample Amount** | : | **%Solids** | : N/A |
| **Digestion Method** | : | **Date Digested** | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 16887-00-6 | Chloride | 74. | 1.0 | 0.89 | |

# Sample Raw Data

Author: Date : 12/23/2024

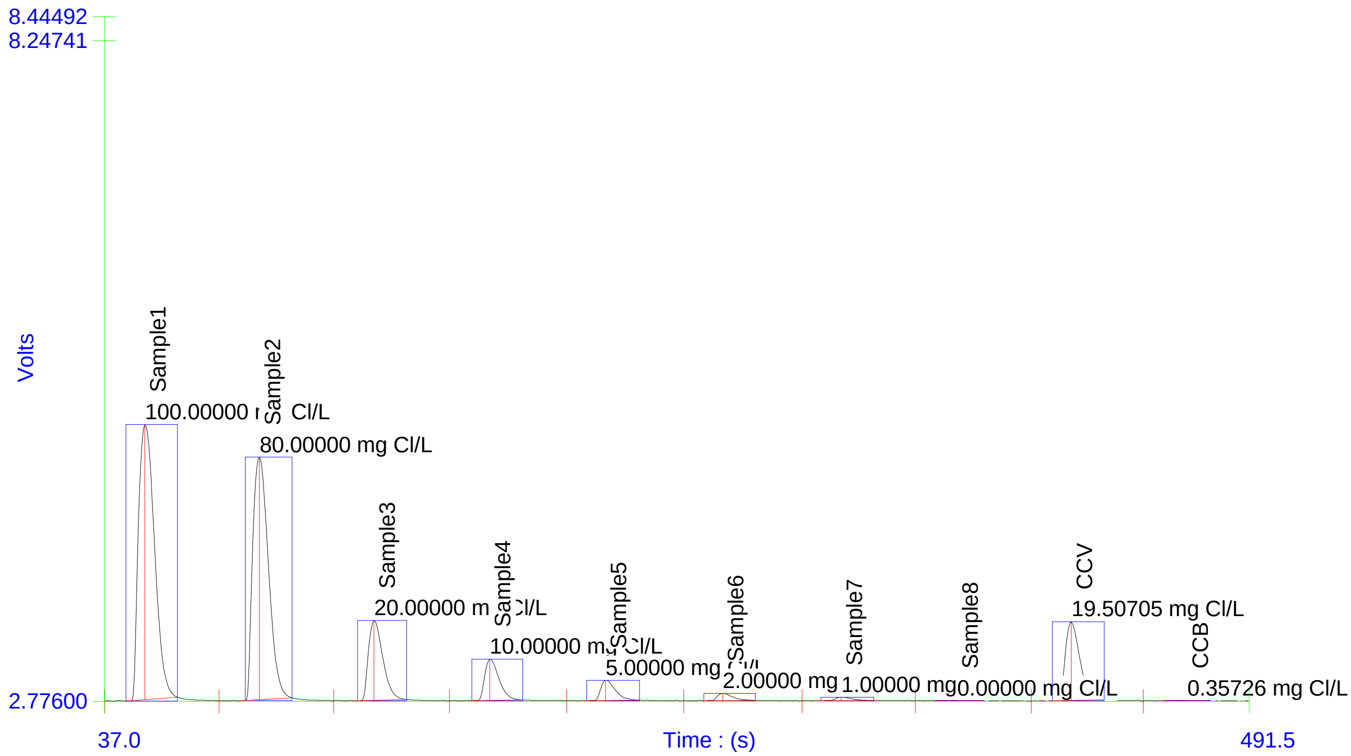
Original Run Filename: OM_12-23-2024_04-31-31PM.OMN Created: 12/23/2024 4:31:31 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_12-23-2024_04-31-31PM.OMN Last Modified: 12/23/2024 6:34:55 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default 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 | 19.50705 | | | | |
| | | Known Conc: | 20.00000 | | | | |
| CCB | 1 | S9 | 0.35726 | | | | |
| | | Known Conc: | 0.00000 | | | | |
| ICV 5 | 1 | 1 | 4.80196 | | | | 96% |
| ICV 30 | 1 | 2 | 30.34119 | | | | 101% |
| ICV 80 | 1 | 3 | 81.82352 | | | | 102% |
| ICB | 1 | 4 | 0.45604 | | | | |
| 100 PPM | 1 | 5 | 108.59635 | 10.00 | | | 109% |
| WG2012787-1 | 1 | 6 | 0.39717 | | | | |
| WG2012787-2 | 1 | 7 | 31.55038 | | | | 105% |
| WG2012789-1 | 1 | 8 | 0.42393 | | | | |
| WG2012789-2 | 1 | 9 | 31.95543 | | | | 107% |
| WG2012790/1-1 | 1 | 10 | 0.34711 | | | | |
| CCV | 1 | S3 | 19.70650 | | | | |
| | | Known Conc: | 20.00000 | | | | |
| CCB | 1 | S9 | 0.41178 | | | | |
| | | Known Conc: | 0.00000 | | | | |
| WG2012790/1-2 | 1 | 11 | 29.35842 | | | | 98% |
| L2474183-01 | 1 | 12 | 40.41582 | | | | |
| WG2012787-3 | 1 | 13 | 40.38383 | | | | |
| WG2012787-4 | 1 | 14 | 59.17331 | | | | |
| L2474183-02 | 1 | 15 | 22.60307 | | | | |
| L2474183-03 | 1 | 16 | 0.94640 | | | | |
| L2474183-04 | 1 | 17 | 6.19675 | | | | |
| L2474183-05 | 1 | 18 | 19.20666 | | | | |
| L2474183-06 | 1 | 19 | 71.78098 | | | | |
| L2474183-07 | 1 | 20 | 14.53862 | 10.00 | | | |
| CCV | 1 | S3 | 19.03825 | | | | |
| | | Known Conc: | 20.00000 | | | | |
| CCB | 1 | S9 | 0.33828 | | | | |
| | | Known Conc: | 0.00000 | | | | |
| L2474183-08 | 1 | 21 | 65.44344 | | | | |
| L2474183-09 | 1 | 22 | 16.24776 | | | | |
| L2474183-10 | 1 | 23 | 14.55269 | | | | |
| L2474183-11 | 1 | 24 | 19.25338 | | | | |
| L2474183-12 | 1 | 25 | 16.42895 | | | | |
| L2474183-13 | 1 | 26 | 8.80249 | | | | |
| L2474458-01 | 1 | 27 | 83.63891 | | | | |
| L2474458-02 | 1 | 28 | 76.59885 | | | | |
| L2474458-03 | 1 | 29 | 76.88548 | | | | |
| L2474458-04 | 1 | 30 | 86.76205 | 10.00 | | | |
| CCV | 1 | S3 | 19.69934 | | | | |
| | | Known Conc: | 20.00000 | | | | |
| CCB | 1 | S9 | 0.42401 | | | | |
| | | Known Conc: | 0.00000 | | | | |
| WG2012787-5 | 1 | 31 | 6.13823 | | | | |
| WG2012787-6 | 1 | 32 | 25.83357 | | | | |
| L2474337-01 | 1 | 33 | 92.09158 | | | | |
| L2474337-02 | 1 | 34 | 59.88267 | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| L2474337-03 | 1 | 35 | 56.60130 | | | |
| L2474337-04 | 1 | 36 | 97.86089 | | | |
| L2474337-05 | 1 | 37 | 123.88416 | | | |
| L2474337-06 | 1 | 38 | 14.97777 | | | |
| WG2012789-3 | 1 | 39 | 14.86614 | | | |
| WG2012789-4 | 1 | 40 | 33.44392 | 10.00 | | |
| CCV | 1 | S3 | 19.25219 | | | |
| | Known Conc: | | 20.00000 | | | |
| CCB | 1 | S9 | 0.47165 | | | |
| | Known Conc: | | 0.00000 | | | |
| L2474337-07 | 1 | 41 | 277.36896 | | | |
| L2474337-08 | 1 | 42 | 251.49475 | | | |
| L2474337-15 | 1 | 43 | 25.93414 | | | |
| | Calibration: | | Table/Fig. : 1 | | | |
| L2474337-16 | 1 | 44 | 44.13426 | | | |
| L2474337-17 | 1 | 45 | 167.87834 | | | |
| L2474337-18 | 1 | 46 | 32.15962 | | | |
| L2474337-19 | 1 | 47 | 39.80981 | | | |
| L2474337-20 | 1 | 48 | 187.04825 | | | |
| L2474337-21 | 1 | 49 | 19.89748 | | | |
| L2474337-22 | 1 | 50 | 69.57794 | 10.00 | | |
| CCV | 1 | S3 | 18.78118 | | | |
| | Known Conc: | | 20.00000 | | | |
| CCB | 1 | S9 | 0.34513 | | | |
| | Known Conc: | | 0.00000 | | | |
| L2474337-23 | 1 | 51 | 145.33707 | | | |
| L2474337-24 | 1 | 52 | 10.84917 | | | |
| L2474337-25 | 1 | 53 | 34.19119 | | | |
| L2474337-26 | 1 | 54 | 94.44914 | | | |
| L2474052-01 | 1 | 55 | 534.06873 | | | |
| L2474228-02 | 1 | 56 | 54.35695 | | | |
| L2474329-01 | 1 | 57 | 74.31562 | | | |
| WG2012790-3 | 1 | 58 | 73.50558 | | | |
| WG2012790-4 | 1 | 59 | 89.39837 | | | |
| L2474329-02 | 1 | 60 | 14.88619 | 10.00 | | |
| CCV | 1 | S3 | 19.98323 | | | |
| | Known Conc: | | 20.00000 | | | |
| CCB | 1 | S9 | 0.40576 | | | |
| | Known Conc: | | 0.00000 | | | |
| L2474329-03 | 1 | 61 | 85.29557 | | | |
| L2474329-04 | 1 | 62 | 17.51237 | | | |
| L2474329-05 | 1 | 63 | 0.39603 | | | |
| L2474414-01 | 1 | 64 | 367.74973 | | | |
| L2474591-07 | 1 | 65 | 72.22896 | | | |
| L2474682-04 | 1 | 66 | 85.55444 | | | |
| L2474161-01 | 1 | 67 | 75.70705 | | | |
| L2474698-01 | 1 | 68 | 136.23111 | | | |
| L2474698-02 | 1 | 69 | 74.68184 | | | |
| L2474698-03 | 1 | 70 | 168.13507 | 10.00 | | |
| CCV | 1 | S3 | 19.28613 | | | |
| | Known Conc: | | 20.00000 | | | |
| CCB | 1 | S9 | 0.44121 | | | |
| | Known Conc: | | 0.00000 | | | |
| L2474698-04 | 1 | 71 | 412.44046 | | | |
| L2474698-05 | 1 | 72 | 96.67168 | | | |
| L2474937-01 | 1 | 73 | 7.53165 | | | |
| WG2012791-3 | 1 | 74 | 7.02719 | | | |
| WG2012791-4 | 1 | 75 | 27.50813 | | | |
| L2474937-02 | 1 | 76 | 5.10943 | | | |
| L2474937-03 | 1 | 77 | 5.15393 | | | |
| L2474183-03 | 1 | 16 | 1.97134 | | | |
| L2474183-07 | 1 | 20 | 10.41654 | | | |
| L2474337-05 | 1 | 37 | 122.73296 | 10.00 | | |
| CCV | 1 | S3 | 19.27092 | | | |
| | Known Conc: | | 20.00000 | | | |
| CCB | 1 | S9 | 0.47057 | | | |
| | Known Conc: | | 0.00000 | | | |
| L2474337-07 | 1 | 41 | 227.87294 | 10.00 | | |

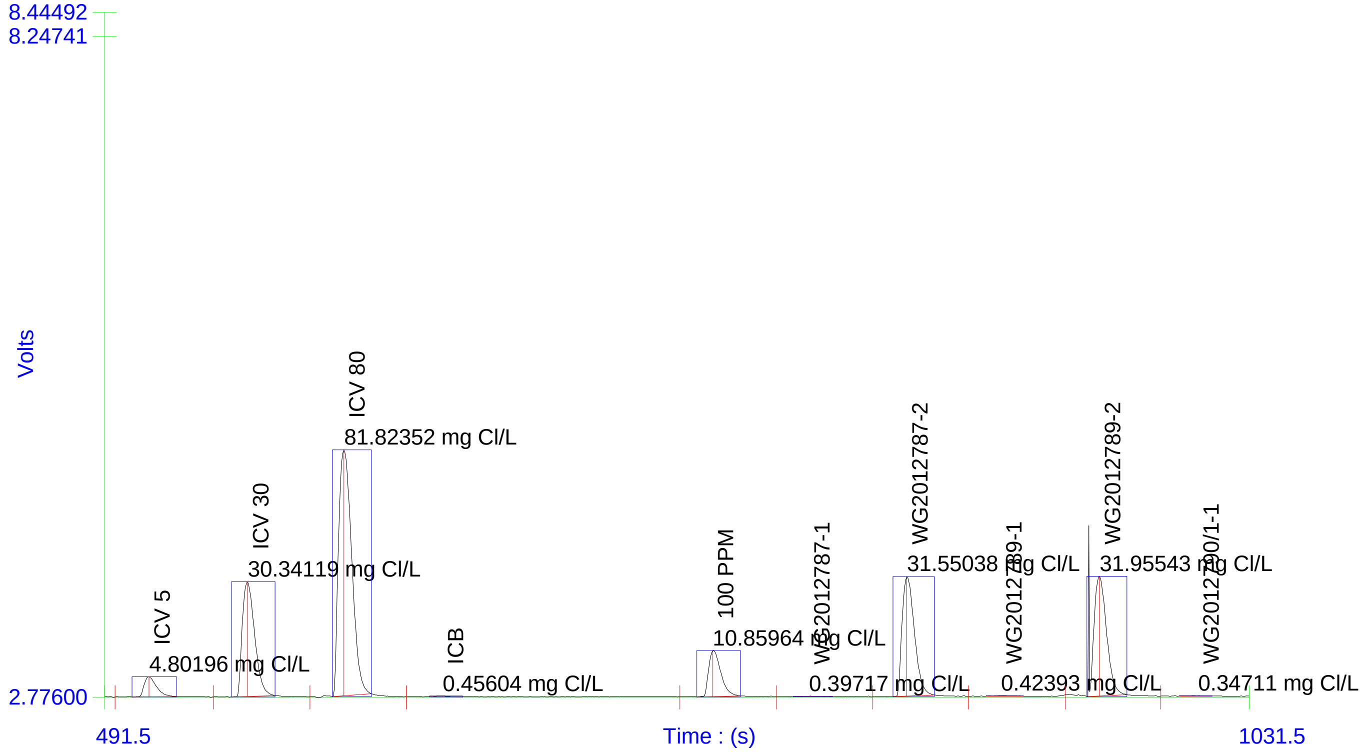
| | | | | | | |
|---|---|---|---|---|---|---|
| L2474337-08 | 1 | 42 | 217.57190 | 10.00 | | |
| L2474337-17 | 1 | 45 | 215.69791 | 10.00 | | |
| L2474337-20 | 1 | 48 | 259.94171 | 10.00 | | |
| L2474337-23 | 1 | 51 | 171.18771 | 10.00 | | |
| L2474458-04 | 1 | 30 | 84.72985 | | | |
| L2474052-01 | 1 | 55 | 5387.65332 | 100.00 | | |
| L2474337-01 | 1 | 33 | 91.60429 | 10.00 | | |
| L2474337-02 | 1 | 34 | 59.68158 | | | |
| L2474337-04 | 1 | 36 | 95.22434 | 10.00 | | |
| CCV | 1 | S3 | 19.37256 | | | |
| | | Known Conc: | 20.00000 | | | |
| CCB | 1 | S9 | 0.41604 | | | |
| | | Known Conc: | 0.00000 | | | |
| L2474337-06 | 1 | 38 | 14.70586 | | | |
| WG2012789-4 | 1 | 40 | 35.95885 | | | |
| L2474337-15 | 1 | 43 | 25.76517 | | | |
| L2474414-01 | 1 | 64 | 924.50098 | 10.00 | | |
| L2474698-01 | 1 | 68 | 154.17311 | 10.00 | | |
| L2474698-04 | 1 | 71 | 1235.17102 | 10.00 | | |
| CCV | 1 | S3 | 19.37769 | | | |
| | | Known Conc: | 20.00000 | | | |
| CCB | 1 | S9 | 0.40902 | | | |
| | | Known Conc: | 0.00000 | | | |

Channel 1 (Chloride) - Set: 1 / 13

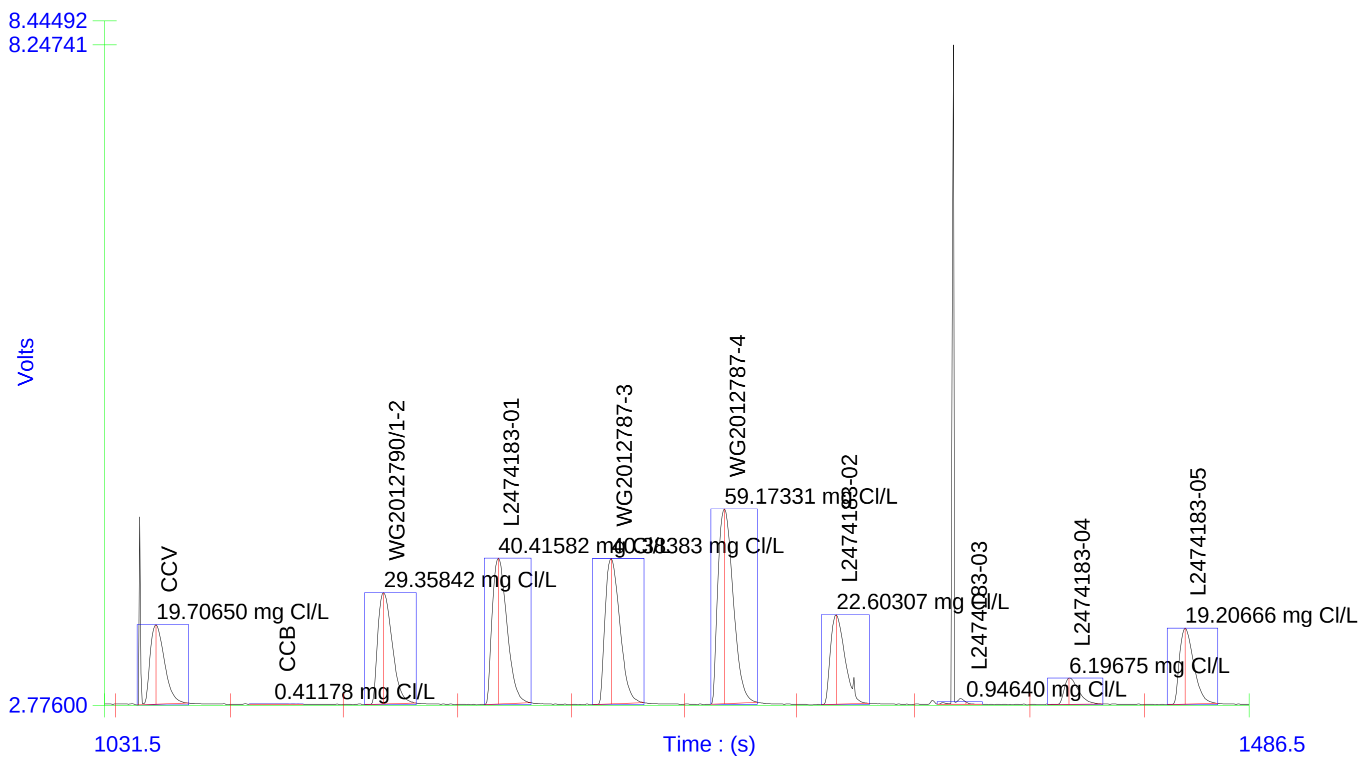


Author: Date : 12/23/2024

Channel 1 (Chloride) - Set: 2 / 13



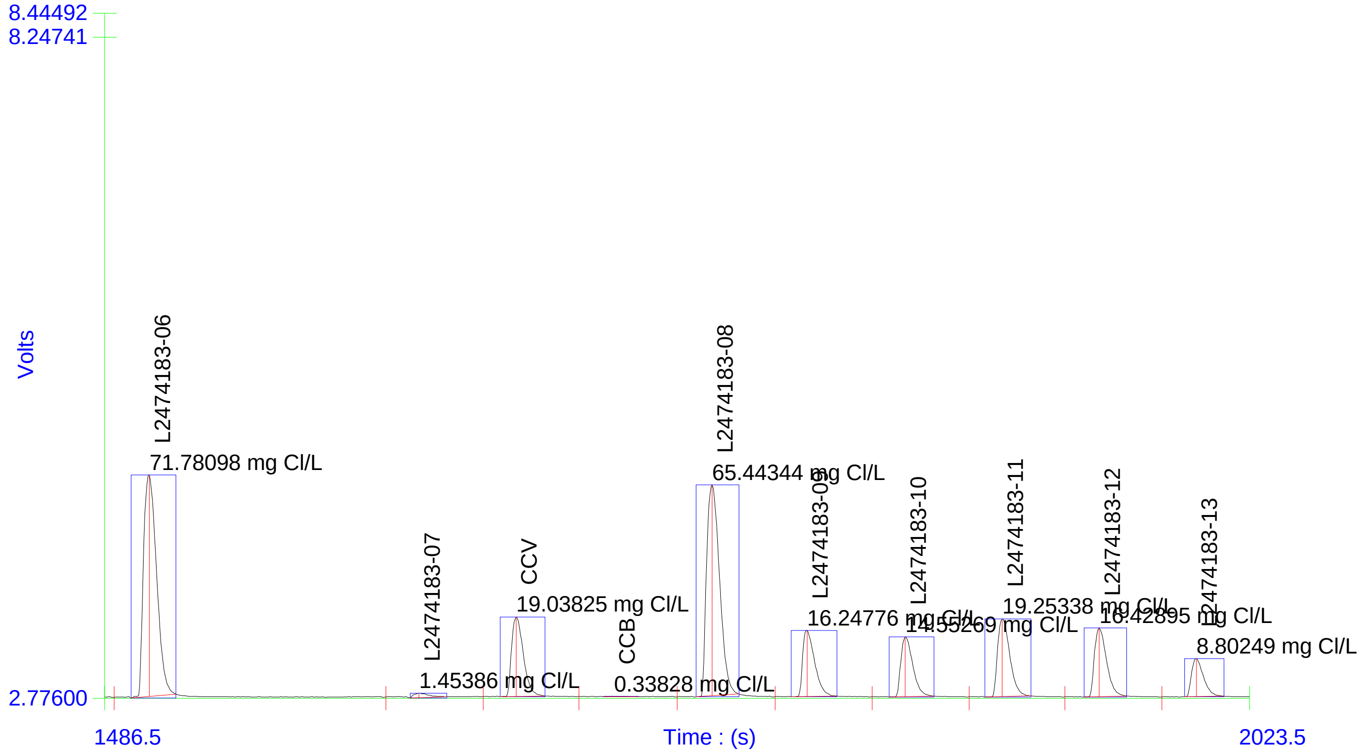

Channel 1 (Chloride) - Set: 3 / 13



Author:

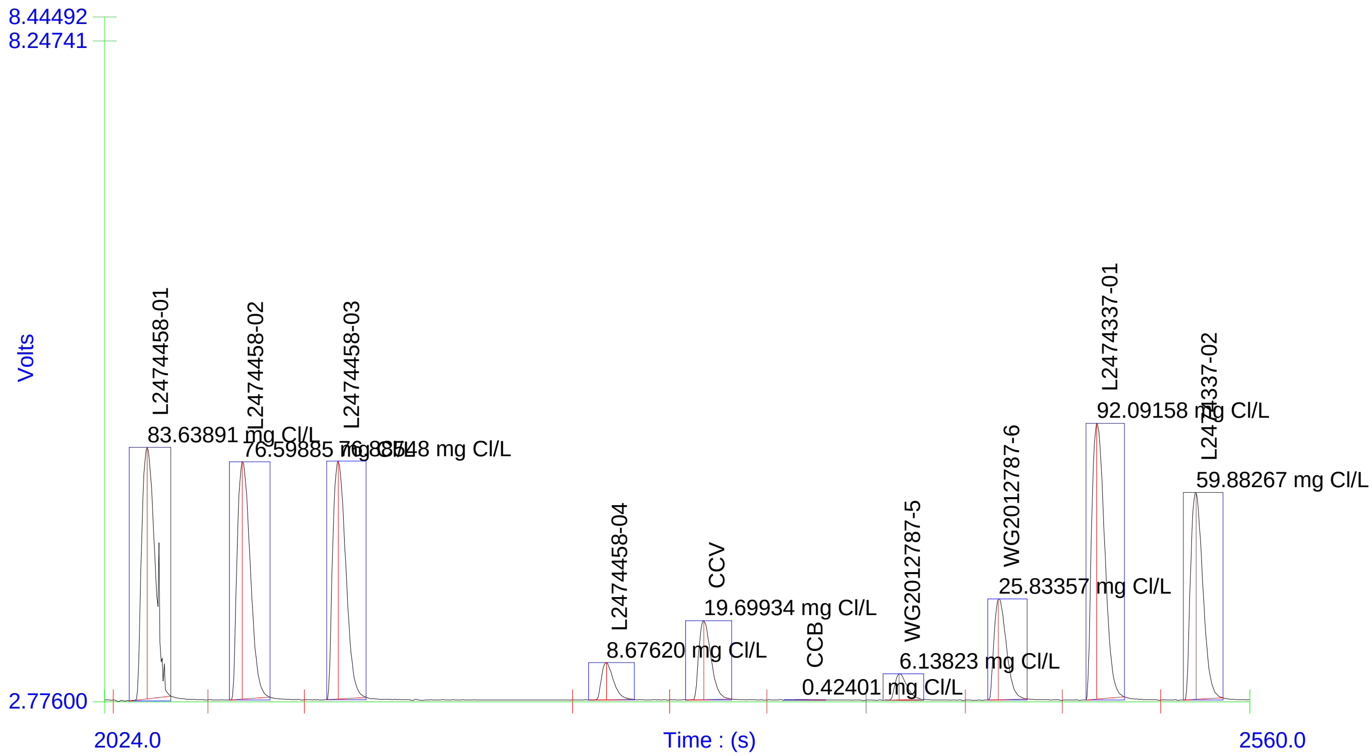
Date : 12/23/2024

Channel 1 (Chloride) - Set: 4 / 13

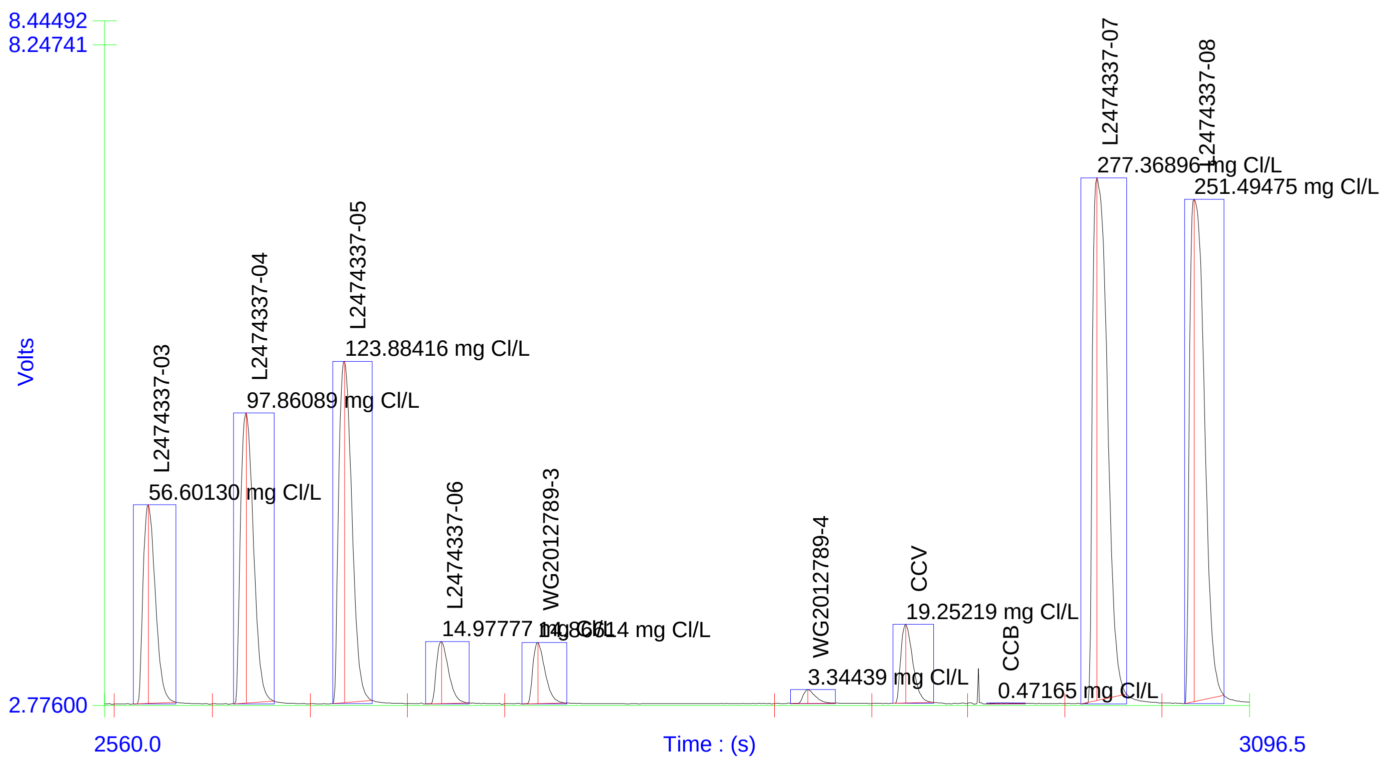


Author: Date : 12/23/2024

Channel 1 (Chloride) - Set: 5 / 13



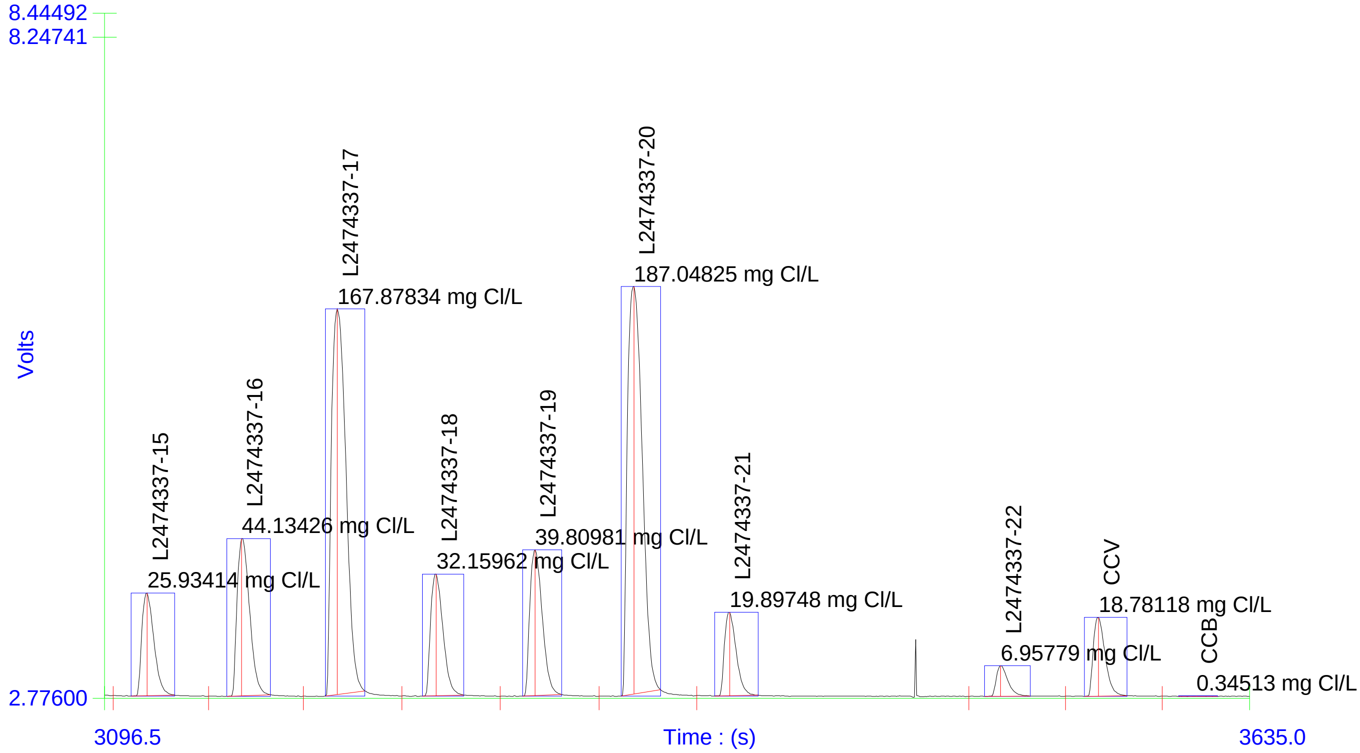

Channel 1 (Chloride) - Set: 6 / 13



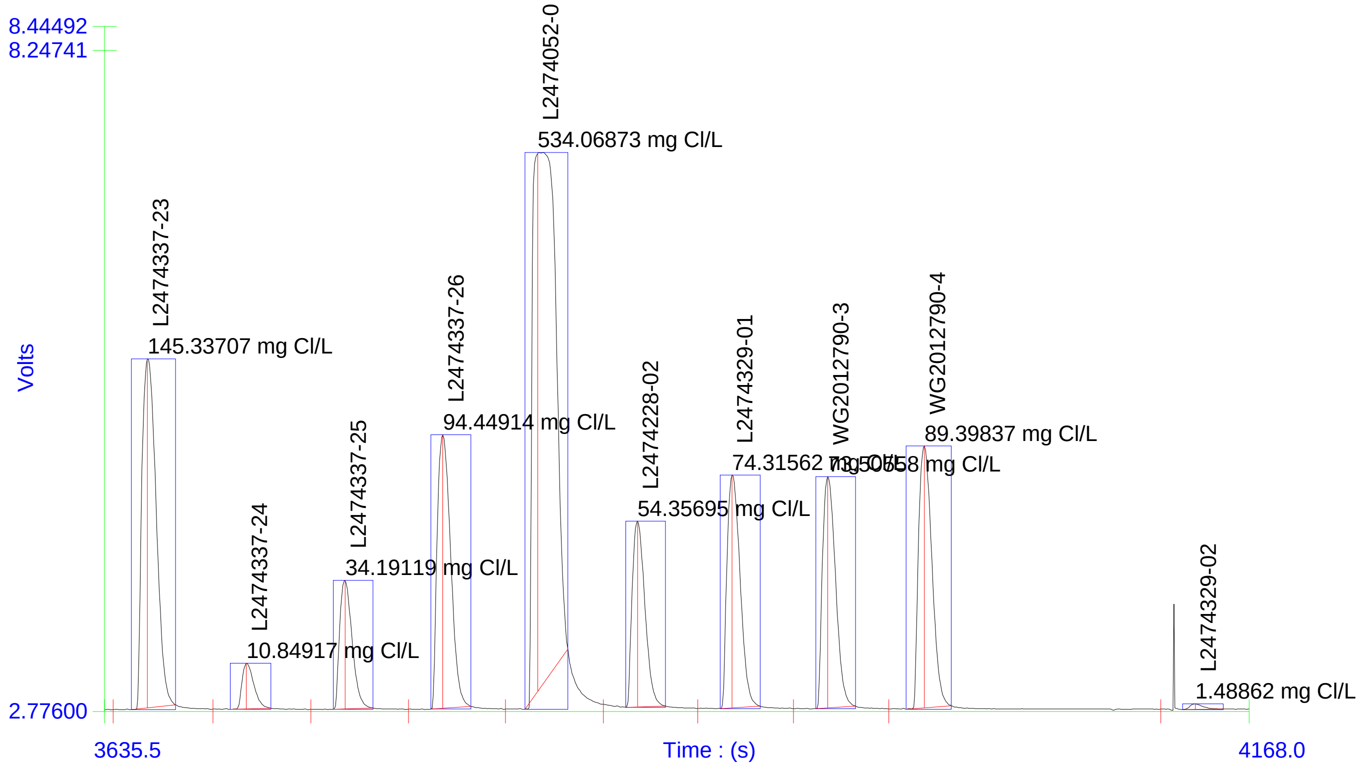
Author:

Date : 12/23/2024

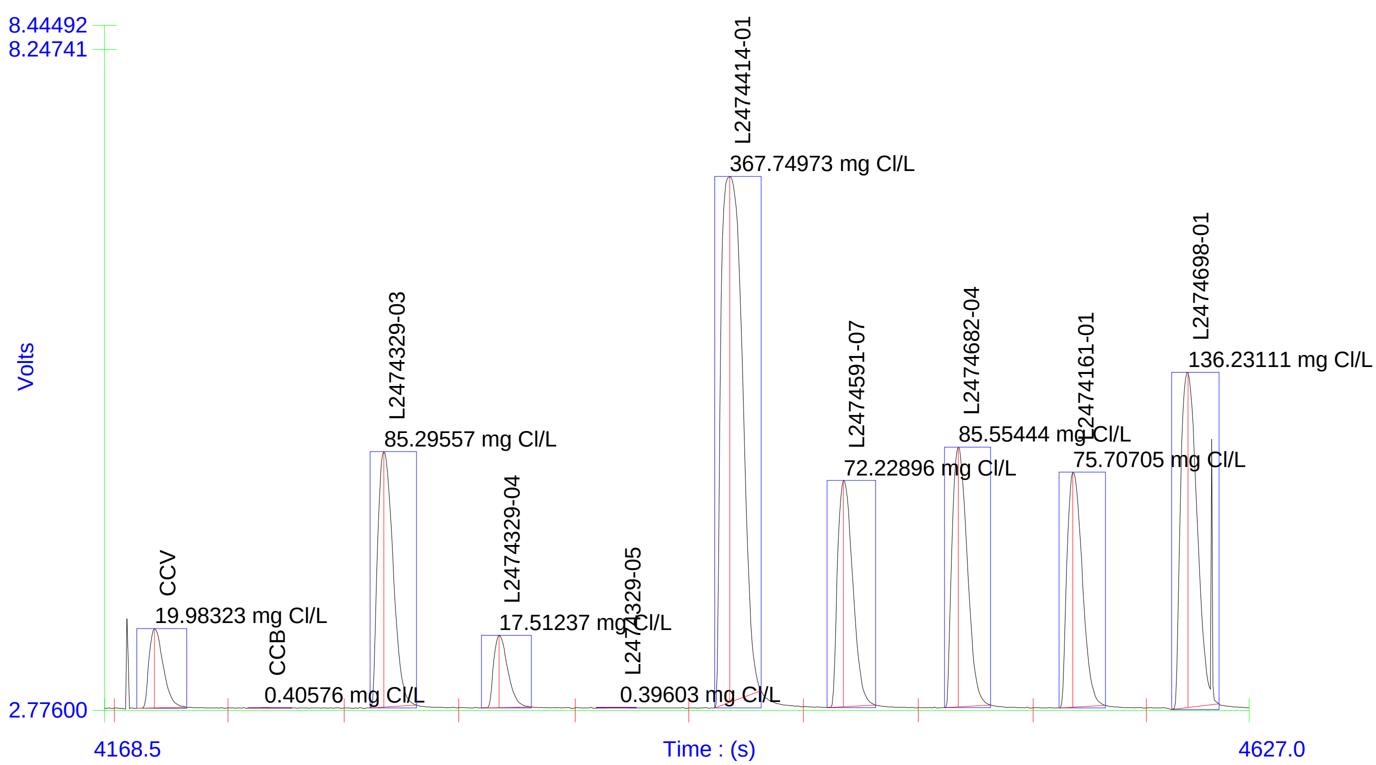
Channel 1 (Chloride) - Set: 7 / 13



Channel 1 (Chloride) - Set: 8 / 13



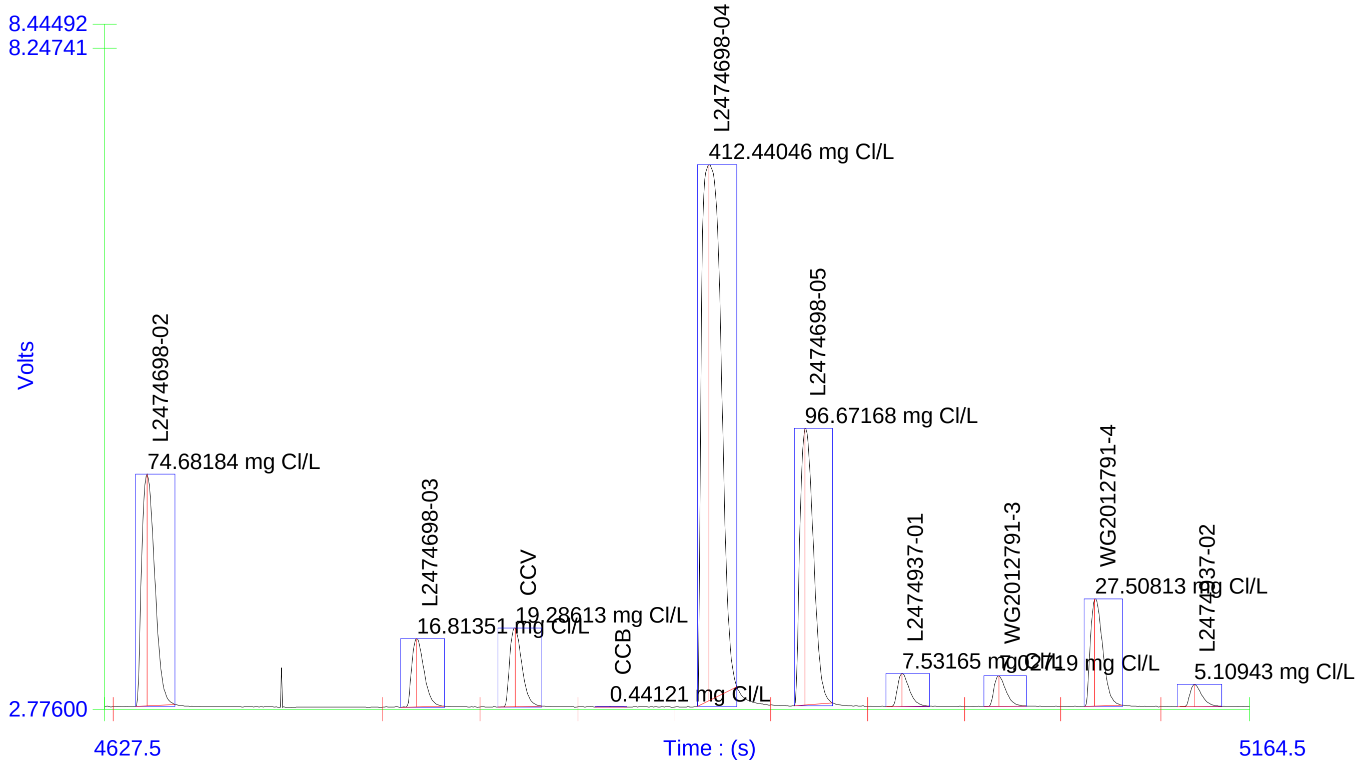

Channel 1 (Chloride) - Set: 9 / 13



Author:

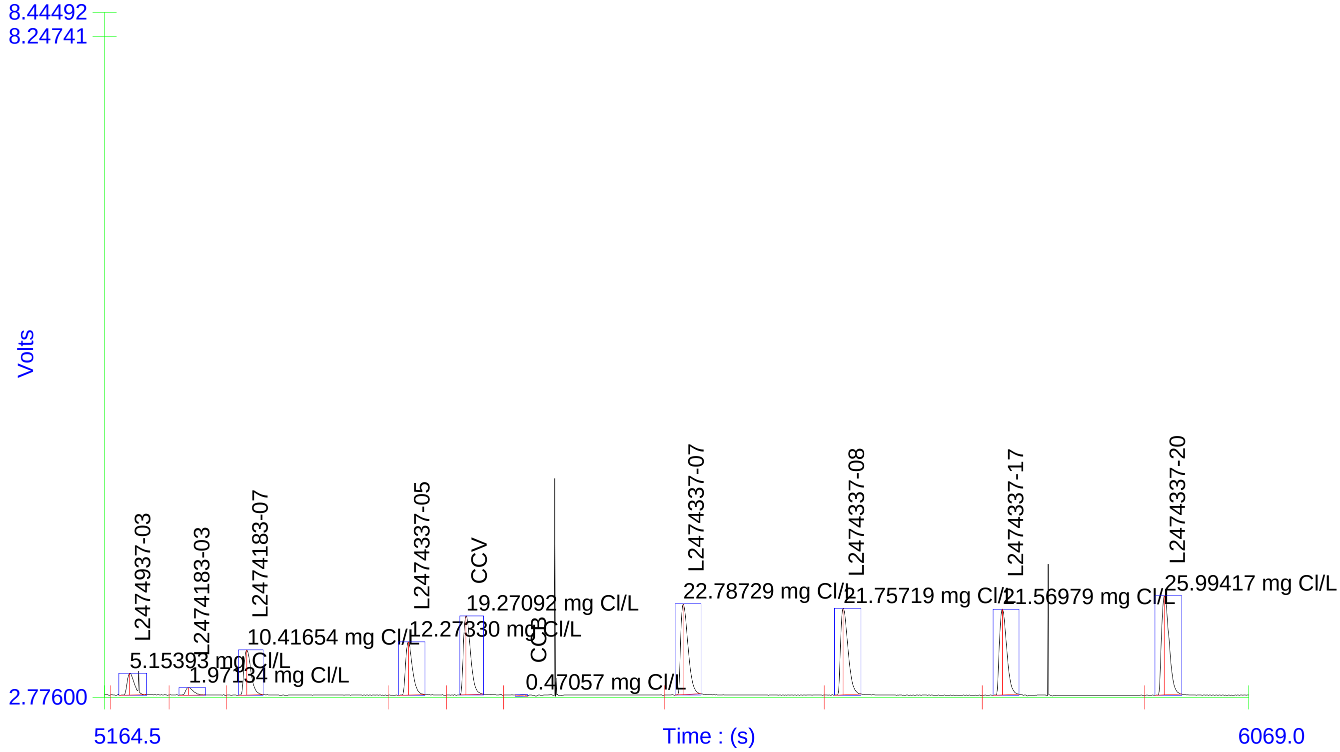
Date : 12/23/2024

Channel 1 (Chloride) - Set: 10 / 13

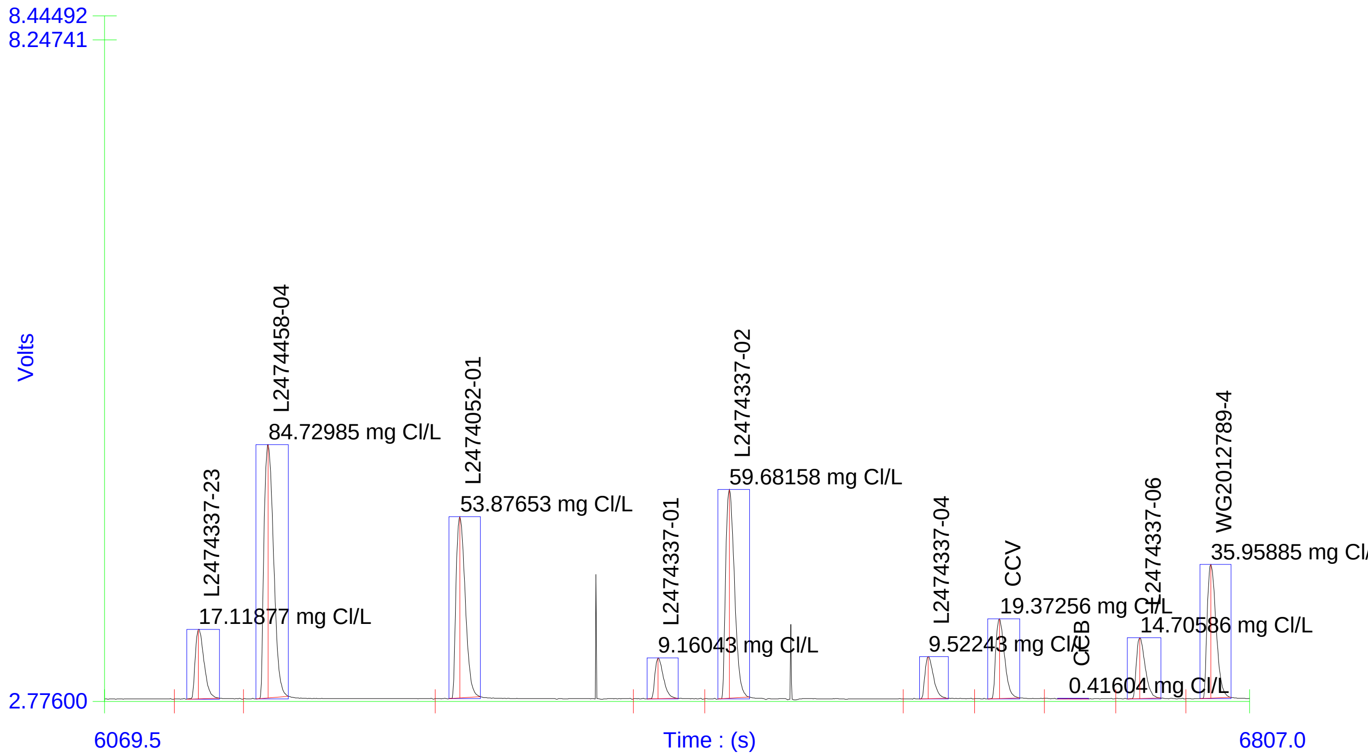


Author: Date : 12/23/2024

Channel 1 (Chloride) - Set: 11 / 13




Channel 1 (Chloride) - Set: 12 / 13



Channel 1 (Chloride) - Set: 13 / 13

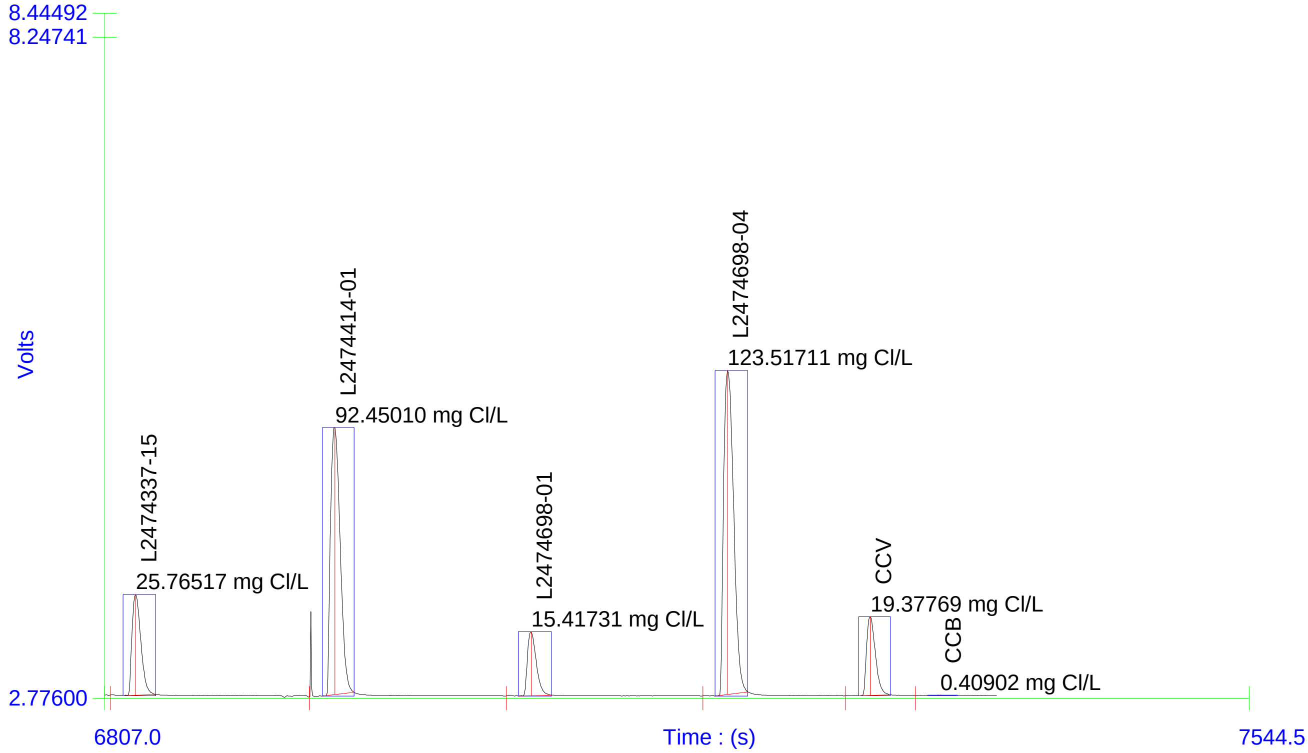
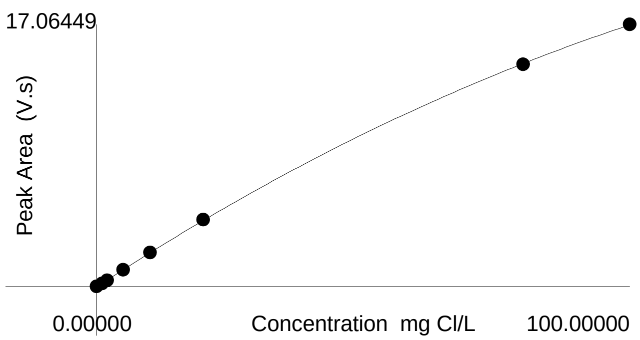



Table : 1 (Chloride-CH3)

| | Known Conc. (mg Cl/L) | Rep. | Peak Area (V.s) | Peak Height (V) | % RSD | % Residual | Det. Conc (mg Cl/L) | Detection Date | Detection Time |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 100.00000 | 1 | 17.06449 | 2.27929 | 0.0 | -0.2 | 99.62064 | 12/23/2024 | 4:32:21 PM |
| 2 | 80.00000 | 1 | 14.46989 | 2.00869 | 0.0 | 0.4 | 80.54979 | 12/23/2024 | 4:33:05 PM |
| 3 | 20.00000 | 1 | 4.36917 | 0.66261 | 0.0 | -1.4 | 19.83656 | 12/23/2024 | 4:33:50 PM |
| 4 | 10.00000 | 1 | 2.22946 | 0.34421 | 0.0 | -0.7 | 9.73846 | 12/23/2024 | 4:34:36 PM |
| 5 | 5.00000 | 1 | 1.10470 | 0.16720 | 0.0 | 1.8 | 4.81769 | 12/23/2024 | 4:35:22 PM |
| 6 | 2.00000 | 1 | 0.41974 | 0.06081 | 0.0 | 8.2 | 1.95180 | 12/23/2024 | 4:36:07 PM |
| 7 | 1.00000 | 1 | 0.21666 | 0.02860 | 0.0 | 6.9 | 1.12110 | 12/23/2024 | 4:36:55 PM |
| 8 | 0.00000 | 1 | 0.02967 | 0.00326 | | | 0.36396 | 12/23/2024 | 4:37:39 PM |

Figure : 1 (Chloride-CH3)




Area = - 0.00056 * Conc^2 + 0.22642 * Conc + 0.00683
Conc = 0.10550 * Area^2 + 4.02320 * Area + 0.24450
Correlation Coefficient (r) = 0.99998

Weighting : None

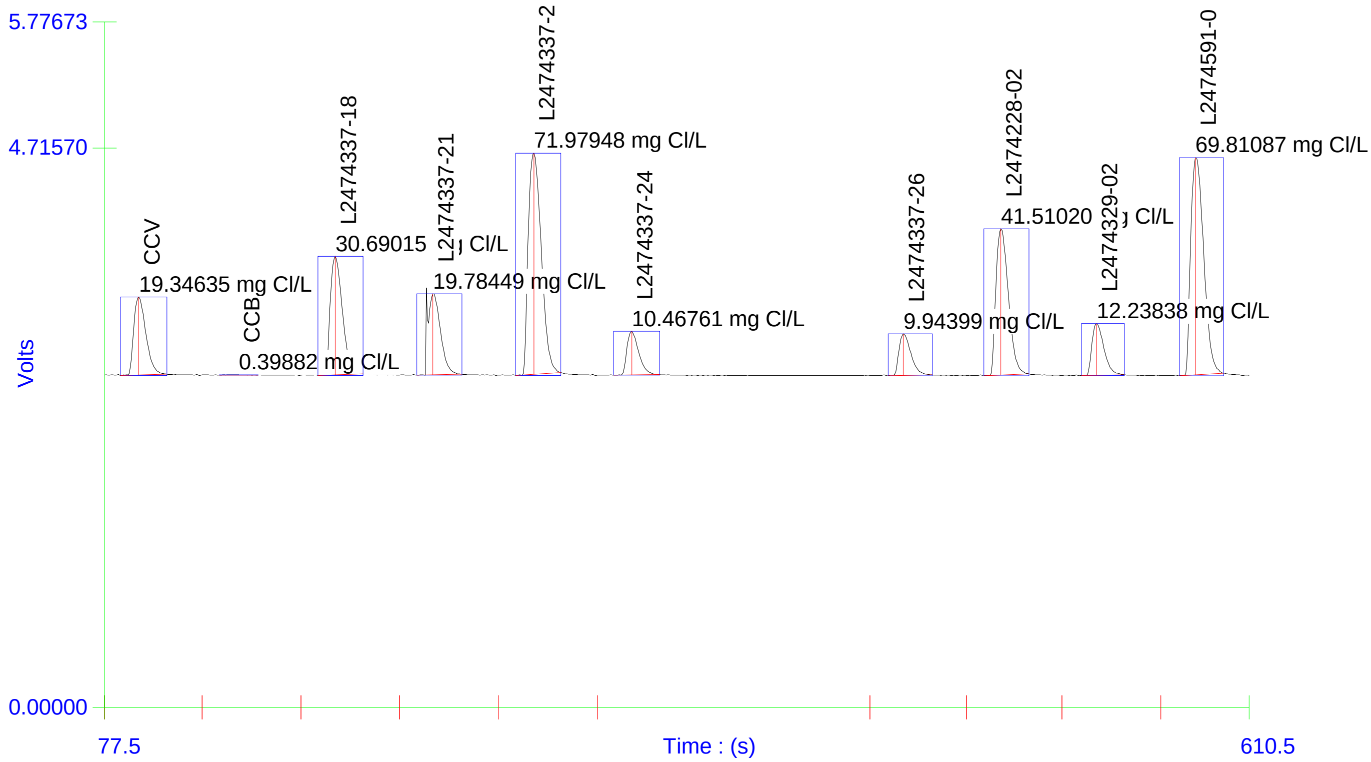
Author: Date : 12/23/2024

Original Run Filename: OM_12-23-2024_07-08-15PM.OMN Created: 12/23/2024 7:08:15 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_12-23-2024_07-08-15PM.OMN Last Modified: 12/23/2024 7:30:17 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

| Sample | Rep. | Cup No. | Channel 1<br>Chloride-CH3 (mg Cl/L) | ADF | MDF | Weight |
|---|---|---|---|---|---|---|
| CCV | 1 | S3 | 19.34635 | | | |
| | | Known Conc: | 20.00000 | | | |
| CCB | 1 | S9 | 0.39882 | | | |
| | | Known Conc: | 0.00000 | | | |
| | | Calibration: | Table/Fig. : 1 | | | |
| L2474337-18 | 1 | 46 | 30.69015 | | | |
| L2474337-21 | 1 | 49 | 19.78449 | | | |
| L2474337-22 | 1 | 50 | 71.97948 | | | |
| L2474337-24 | 1 | 52 | 10.46761 | | | |
| L2474337-26 | 1 | 54 | 99.43992 | 10.00 | | |
| L2474228-02 | 1 | 56 | 41.51020 | | | |
| L2474329-02 | 1 | 60 | 12.23838 | | | |
| L2474591-07 | 1 | 65 | 69.81087 | | | |
| L2474698-02 | 1 | 69 | 70.54973 | | | |
| L2474698-05 | 1 | 72 | 97.89258 | 10.00 | | |
| CCV | 1 | S3 | 19.73545 | | | |
| | | Known Conc: | 20.00000 | | | |
| CCB | 1 | S9 | 0.39127 | | | |
| | | Known Conc: | 0.00000 | | | |
| L2474937-01 | 1 | 73 | 6.85703 | | | |
| L2474414-01 | 1 | 64 | 912.34314 | 100.00 | | |
| L2474698-04 | 1 | 71 | 1321.77197 | 100.00 | | |
| CCV | 1 | S3 | 19.44324 | | | |
| | | Known Conc: | 20.00000 | | | |
| CCB | 1 | S9 | 0.43885 | | | |
| | | Known Conc: | 0.00000 | | | |

Author: Date : 12/23/2024

Channel 1 (Chloride) - Set: 1 / 2




Channel 1 (Chloride) - Set: 2 / 2

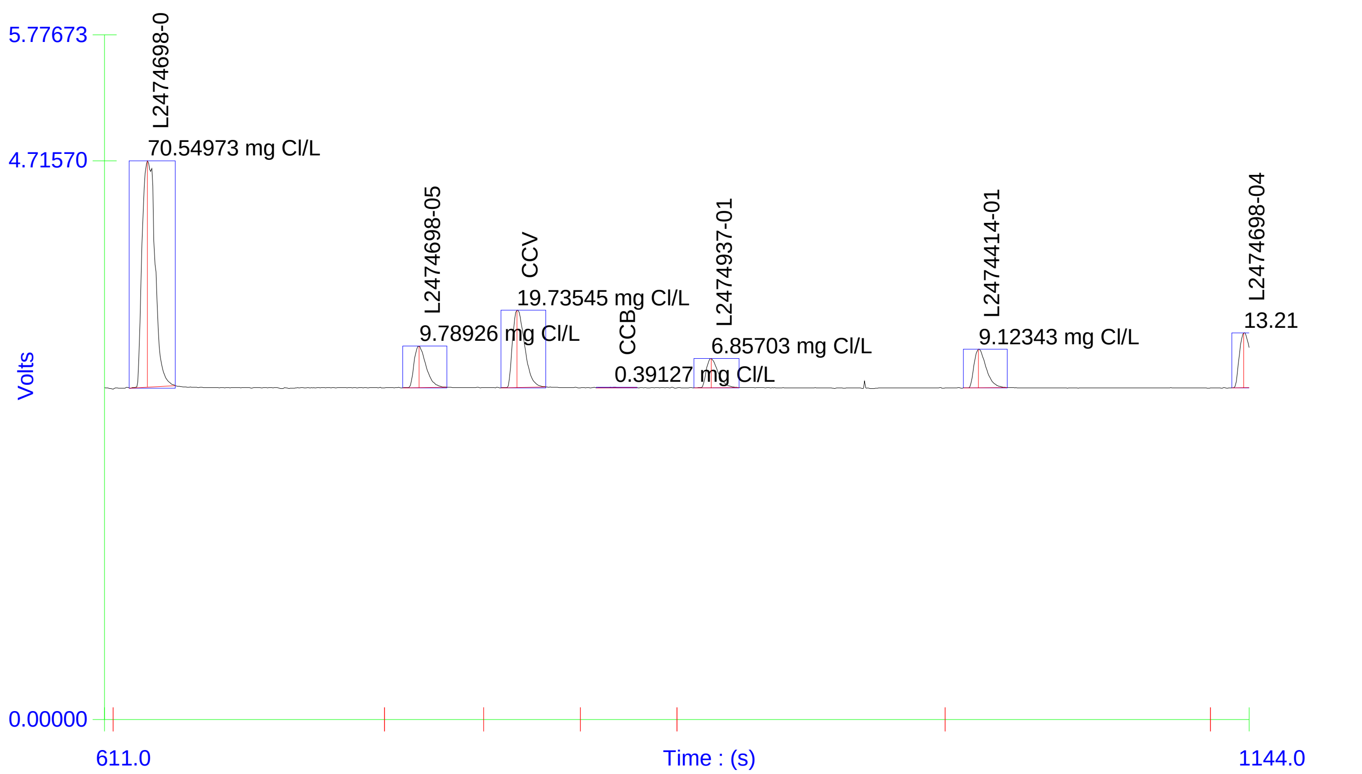
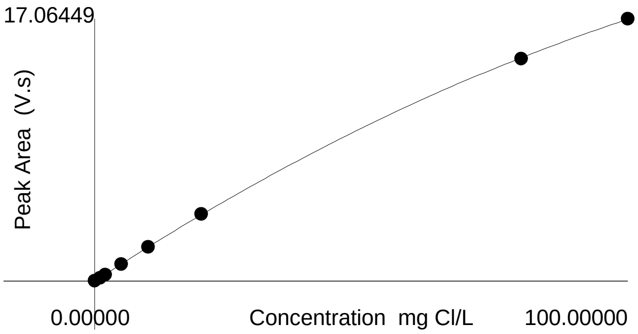


Table : 1 (Chloride-CH3)

| | 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 | 17.06449 | 2.27929 | 0.0 | -0.2 | 99.62064 | 12/23/2024 | 4:32:21 PM |
| 2 | 80.00000 | 1 | 14.46989 | 2.00869 | 0.0 | 0.4 | 80.54979 | 12/23/2024 | 4:33:05 PM |
| 3 | 20.00000 | 1 | 4.36917 | 0.66261 | 0.0 | -1.4 | 19.83656 | 12/23/2024 | 4:33:50 PM |
| 4 | 10.00000 | 1 | 2.22946 | 0.34421 | 0.0 | -0.7 | 9.73846 | 12/23/2024 | 4:34:36 PM |
| 5 | 5.00000 | 1 | 1.10470 | 0.16720 | 0.0 | 1.8 | 4.81769 | 12/23/2024 | 4:35:22 PM |
| 6 | 2.00000 | 1 | 0.41974 | 0.06081 | 0.0 | 8.2 | 1.95180 | 12/23/2024 | 4:36:07 PM |
| 7 | 1.00000 | 1 | 0.21666 | 0.02860 | 0.0 | 6.9 | 1.12110 | 12/23/2024 | 4:36:55 PM |
| 8 | 0.00000 | 1 | 0.02967 | 0.00326 | | | 0.36396 | 12/23/2024 | 4:37:39 PM |

Figure : 1 (Chloride-CH3)




Area = - 0.00056 * Conc^2 + 0.22642 * Conc + 0.00683
Conc = 0.10550 * Area^2 + 4.02320 * Area + 0.24450
Correlation Coefficient (r) = 0.99998

Weighting : None

# Quality Control

# Form 5a
# Matrix Spike

| | | | | | |
|---|---|---|---|---|---|
| Client | : | Roux Env. Eng. & Geology, DPC | Lab Number | : | L2474329 |
| Project Name | : | CORAM MATERIALS | Project Number | : | 2232.0006Y005 |
| Client Sample ID | : | MW-4S | Matrix | : | WATER |
| Lab Sample ID | : | L2474329-01 | | | |
| Matrix Spike | : | WG2012790-4 | MS Analysis Date | : | 12/23/24 17:38 |
| Matrix Spike Dup | : | | MSD Analysis Date | : | |

| | | Matrix Spike Sample | | | Matrix Spike Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Parameter | Sample Conc. (mg/l) | Spike Added (mg/l) | Spike Conc. (mg/l) | %R | Spike Added (mg/l) | Spike Conc. (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
| Chloride | 74. | 20 | 89. | 75 | | | | | 58-140 | 7 |

# Form 6
# Lab Duplicates

| | | | | |
|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : | L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : | 2232.0006Y005 |
| **Client Sample ID** | : MW-4S | **Matrix** | : | WATER |
| **Lab Sample ID** | : L2474329-01 | **Analysis Date** | : | 12/23/24 17:36 |
| **Dup Sample ID** | : WG2012790-3 | **DUP Analysis Date** | : | 12/23/24 17:37 |

| Parameter | Sample Concentration (mg/l) | Duplicate Concentration (mg/l) | RPD | RPD Limit |
|---|---|---|---|---|
| Chloride | 74. | 74. | 0 | 7 |

# Form 7
# Laboratory Control Sample

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Client Sample ID** | : NA | **Matrix** | : WATER |
| **Lab Sample ID** | : WG2012790-2 | **LCS Analysis Date** | : 12/23/24 16:50 |
| **Dup Sample ID** | : | **LCSD Analysis Date** | : |

| | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Parameter | True (mg/l) | Found (mg/l) | %R | True (mg/l) | Found (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
| Chloride | 30.0 | 29.0 | 97. | | | | | 90-110 | 7 |

**Date Created:** 11/11/21
**Created By:** Jason Hebert
**File:** PM11467-1
**Page:** 1

**WETCHEM (WATER)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Method | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | 1 | 0.2 | mg/l | 90-110 | | 58-140 | 7 | 7 | 4500CL-E | 28 days | 1 - Plastic 250ml unpreserved |

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

**WETCHEM (SOIL)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Method | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | 10 | 3.73 | mg/kg | 89-109 | 35 | 62-129 | 35 | 35 | 9251 | 28 days | 1 - Glass 250ml/8oz unpreserved |
| Chloride | 16887-00-6 | 10 | 3.73 | mg/kg | 90-110 | 35 | 62-129 | 35 | 35 | 4500CL-E | 28 days | 1 - Glass 250ml/8oz unpreserved |

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

## **Calculations of Chloride**

Aqueous samples:

Compute sample Chloride concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (Chloride)

To compute the final results for aqueous samples, multiply the direct reading by the dilution factor. (also done using software)

Cl mg/L = mg/L direct reading x dilution factor

# Sequence Logs

TITLE CI 12 23 24 JER — Project No. ____ Book No. ____ 13 Confidenti

From Page No. ____

1 ICV 5
2 30
3 80
4 ICB
5 100ppm 10x
6 WG2012787-1 BLK
7 -2 LCS
8 WG2012789-1 BLK
9 -2 LCS
10 WG2012790/1-1 BLK
11 -2 LCS
12 74183-01
13 WG2012787-3 DUP
14 -4 MS
15 74183-02
16 -03
17 -04
18 -05
19 -06
20 -07
21 -08
22 -09
23 -10
24 -11
25 -12
26 -13
27 74458-01
28 -02
29 -03
30 -04
31 ~~74~~WG2012787-5 DUP
32 -6 MS
33 74337-01
34 -02
35 -03
36 -04
37 -05
38 74337-06
39 WG2012789-3 DUP
40 -4 MS
41 ~~2~~74337-07
42 -08
43 -15 -09 JER 12 23 M
44 -16 -10
45 -17 -11
46 -18
47 -19
48 -20
49 -21
50 -22
51 -23
52 -24
53 -25
54 -26
55 74012-01
56 74228-02
57 74309-01
58 WG2012790-3 DUP
59 -4 MS
60 74309-02
61 -03
62 -04
63 -05
64 74114-01
65 74591-07
66 74682-04
67 74161-01
68 74648-01
69 -02
70 -03
71 -04
72 -05
73 74437-01
74 WG2012741-3 DUP
75 -4 MS
76 74437-02
77 -03

To Page No. ____

Witnessed & Understood by me, | Date | Invented by: | Date

Recorded by:

# Fluoride Analysis

# Results

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-01** | **Date Collected** | **: 12/16/24 11:00** |
| **Client ID** | **: MW-4S** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/22/24 10:15** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 121,4500F-BC** | **Analyst** | **: DTH** |
| **Lab File ID** | **: WG2012301.csv** | **Instrument ID** | **:** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **: 12/22/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 16984-48-8 | Fluoride | 0.02 | 0.20 | 0.01 | J |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-02 | Date Collected | : 12/16/24 11:50 |
| Client ID | : MW-4D2 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/22/24 10:15 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500F-BC | Analyst | : DTH |
| Lab File ID | : WG2012301.csv | Instrument ID | : |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : 12/22/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 16984-48-8 | Fluoride | 0.04 | 0.20 | 0.01 | J |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-03** | **Date Collected** | **: 12/16/24 08:45** |
| **Client ID** | **: MW-12S** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/22/24 10:15** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 121,4500F-BC** | **Analyst** | **: DTH** |
| **Lab File ID** | **: WG2012301.csv** | **Instrument ID** | **:** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **: 12/22/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 16984-48-8 | Fluoride | 0.03 | 0.20 | 0.01 | J |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-04 | Date Collected | : 12/16/24 09:33 |
| Client ID | : MW-12D | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/22/24 10:15 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500F-BC | Analyst | : DTH |
| Lab File ID | : WG2012301.csv | Instrument ID | : |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : 12/22/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 16984-48-8 | Fluoride | 0.03 | 0.20 | 0.01 | J |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-05** | **Date Collected** | **: 12/16/24 12:00** |
| **Client ID** | **: EB-12162024** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/22/24 10:15** |
| **Sample Matrix** | **: Equipment Blank** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 121,4500F-BC** | **Analyst** | **: DTH** |
| **Lab File ID** | **: WG2012301.csv** | **Instrument ID** | **:** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **: 12/22/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 16984-48-8 | Fluoride | ND | 0.20 | 0.01 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2012301-1 | Date Collected | : NA |
| Client ID | : WG2012301-1BLANK | Date Received | : NA |
| Sample Location | : | Date Analyzed | : 12/22/24 10:15 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500F-BC | Analyst | : DTH |
| Lab File ID | : WG2012301.csv | Instrument ID | : |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : 12/22/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 16984-48-8 | Fluoride | ND | 0.20 | 0.01 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: WG2012301-3** | **Date Collected** | **: 12/16/24 11:00** |
| **Client ID** | **: MW-4SDUP** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **:** | **Date Analyzed** | **: 12/22/24 10:15** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 121,4500F-BC** | **Analyst** | **: DTH** |
| **Lab File ID** | **: WG2012301.csv** | **Instrument ID** | **:** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **: 12/22/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 16984-48-8 | Fluoride | 0.02 | 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:** _________________

**Analysis:** FLUORIDE
**Method:** SM 4500F-BC
**LCS Concentration (mg/l):** 2
**Spike Concentration (mg/l):** 1

**Product:** F-4500
**Analysis Analyte:** Fluoride,
**Analysis Date:** 12/22/2024 10:15
**Technician:** DTH
**Work group:** WG2012301
**RL:** 0.20 mg/L
**Distillation Date:** 12/22/2024 5:18

| Standard ID mg/L | Log Std-d | Reading mV | Result, Curve | Antilog Result | % Recovery | Calibration | Curve |
|---|---|---|---|---|---|---|---|
| | | | | | | Slope | y-intercept |
| 0.2 | -0.699 | 123.5 | -0.700 | 0.1997 | 100 | -58.8187578 | 82.35 |
| 0.5 | -0.301 | 100.2 | -0.303 | 0.4972 | 99 | | |
| 1.0 | 0.000 | 82.1 | 0.004 | 1.0098 | 101 | Correlation | Coefficient |
| 10 | 1.000 | 23.6 | 0.999 | 9.973 | 100 | 0.99999179 | |

| | Sample number | Sample Volume (ml) | Distill Volume (ml) | Flask | Reagent | Dilution Factor | Meter Reading | RL Multiplier | FINAL RESULT (mg/l) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | ICB | 50 | 50 | | YES | 1.00 | 0 | 1.00 | 0.00 | Recovery |
| | ICV | 50 | 50 | | YES | 1.00 | 1.02 | 1.00 | 1.02 | 102% |
| SAMP | L2474329-01 | 50 | 50 | | YES | 1.00 | 0.024 | 1.00 | 0.02 | |
| SAMP | L2474329-02 | 50 | 50 | | YES | 1.00 | 0.0361 | 1.00 | 0.04 | |
| SAMP | L2474329-03 | 50 | 50 | | YES | 1.00 | 0.025 | 1.00 | 0.03 | |
| SAMP | L2474329-04 | 50 | 50 | | YES | 1.00 | 0.0309 | 1.00 | 0.03 | |
| SAMP | L2474329-05 | 50 | 50 | | YES | 1.00 | 0 | 1.00 | 0.00 | |
| | L2474586-01 | 50 | 50 | | YES | 1.00 | 0.899 | 1.00 | 0.90 | |
| | L2474586-02 | 50 | 50 | | YES | 1.00 | 0.159 | 1.00 | 0.16 | |
| | L2474967-01 | 10 | 50 | | YES | 5.00 | 0.521 | 5.00 | 2.61 | |
| SAMP | L2475227-01 | 0.5 | 50 | | YES | 100.00 | 0.312 | 100.00 | 31.20 | |
| SAMP | L2475228-01 | 0.5 | 50 | | YES | 100.00 | 0.344 | 100.00 | 34.40 | |
| | CCV | 50 | 50 | | YES | 1.00 | 1.04 | 1.00 | 1.04 | |
| | CCB | 50 | 50 | | YES | 1.00 | 0 | 1.00 | 0.00 | |
| | CCV | 50 | 50 | | YES | 1.00 | 1.01 | 1.00 | 1.01 | |
| | CCB | 50 | 50 | | YES | 1.00 | 0 | 1.00 | 0.00 | |
| | | | | | | 1.00 | | 1.00 | | |
| | | | | | | 1.00 | | 1.00 | | |
| | | | | | | 1.00 | | 1.00 | | |
| | | | | | | 1.00 | | 1.00 | | |
| | | | | | | 1.00 | | 1.00 | | |
| | | | | | | 1.00 | | 1.00 | | |
| BLANK | WG2012301-1 | 50 | 50 | | YES | 1.00 | 0 | 1.00 | 0.00 | |
| DUP | WG2012301-3 | 50 | 50 | | YES | 1.00 | 0.0236 | 1.00 | 0.02 | L2474329-01 |

| | 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 | WG2012301-4 | 50 | 50 | | YES | .02 | 0.98 | 1 | 0.98 | 96 |
| LCS | WG2012301-2 | 50 | 50 | | YES | | 1.75 | 2 | 1.75 | 88 |

last sample

# Quality Control

# Form 5a
# Matrix Spike

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | | **Lab Number** | : | L2474329 |
| **Project Name** | : CORAM MATERIALS | | **Project Number** | : | 2232.0006Y005 |
| **Client Sample ID** | : MW-4S | | **Matrix** | : | WATER |
| **Lab Sample ID** | : L2474329-01 | | | | |
| **Matrix Spike** | : WG2012301-4 | | **MS Analysis Date** | : | 12/22/24 10:15 |
| **Matrix Spike Dup** | : | | **MSD Analysis Date** | : | |

| | | Matrix Spike Sample | | | Matrix Spike Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Parameter | Sample Conc. (mg/l) | Spike Added (mg/l) | Spike Conc. (mg/l) | %R | Spike Added (mg/l) | Spike Conc. (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
| Fluoride | 0.02J | 1 | 0.98 | 98 | | | | | 69-124 | 13 |

# Form 6
# Lab Duplicates

| | | | | |
|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : | L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : | 2232.0006Y005 |
| **Client Sample ID** | : MW-4S | **Matrix** | : | WATER |
| **Lab Sample ID** | : L2474329-01 | **Analysis Date** | : | 12/22/24 10:15 |
| **Dup Sample ID** | : WG2012301-3 | **DUP Analysis Date** | : | 12/22/24 10:15 |

| Parameter | Sample Concentration (mg/l) | Duplicate Concentration (mg/l) | RPD | RPD Limit |
|---|---|---|---|---|
| Fluoride | 0.02J | 0.02J | NC | 13 |

# Form 7
## Laboratory Control Sample

| | | | |
|---|---|---|---|
| **Client** | : **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : **L2474329** |
| **Project Name** | : **CORAM MATERIALS** | **Project Number** | : **2232.0006Y005** |
| **Client Sample ID** | : **NA** | **Matrix** | : **WATER** |
| **Lab Sample ID** | : **WG2012301-2** | **LCS Analysis Date** | : **12/22/24 10:15** |
| **Dup Sample ID** | : | **LCSD Analysis Date** | : |

| | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Parameter | True (mg/l) | Found (mg/l) | %R | True (mg/l) | Found (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
| Fluoride | 2.00 | 1.80 | 88. | | | | | 78-120 | 13 |

**Date Created:** 11/11/21
**Created By:** Jason Hebert
**File:** PM11467-1
**Page:** 1

**WETCHEM (WATER)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Method | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | 16984-48-8 | 0.2 | 0.017 | mg/l | 78-120 | | 69-124 | 13 | 13 | 4500F-BC | 28 days | 1 - Plastic 500ml unpreserved |

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

**Date Created:** 11/11/21
**Created By:** Jason Hebert
**File:** PM11468-1
**Page:** 1

**WETCHEM (SOIL)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Method | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | 16984-48-8 | 10 | 1.04 | mg/kg | 80-120 | | 70-130 | 20 | 20 | 4500F-BC | 28 days | 1 - Glass 250ml/8oz unpreserved |

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

# Calculations of Fluoride

When the volume of the distillate is the same as the volume of the sample used, the direct determination of Fluoride concentration is the instrument's result.

However, when analyzing soil samples or high level samples requiring a dilution, the following equations apply:

**For liquids:**

Fluoride, mg/L = (mg F-/L) X (Volume of Distillate, mL)/ Volume of Sample, mL

**For solids:**

Fluoride, mg/Kg = (mg F-/L) X (Volume of Distillate, mL)/Weight of Sample, gm

To calculate final result for soil samples based on dry weight, multiply final result on 100 and divide on %TS (in %)

# Sample Preparation

Project No. ______

dential Book No. ______ TITLE ______

Page No. ____ WG2012301 WG2012302

Analyst: DTH

Date & Time: 12/22/24 10:15

ICV:F 052424

LCS:F 052424

Spike:F 052424

Curve:WC- 3455

TISAB III: R- ~~3~~ 4264

| STD | MV |
|---|---|
| 0.2 | 123.5 |
| 0.5 | 100.2 |
| 1.0 | 82.1 |
| 10.0 | 23.6 |

| Sample | Volume | Final Volume | Meter |
|---|---|---|---|
| ICV | 50mL | 50mL | 1.02 |
| ICB | ↓ | ↓ | 0.0 |
| Blank | | | 0.0 |
| LCS | | | 1.75 |
| ~~74329~~-01 | | | 0.0240 |
| Dup -01 | | | 0.0236 |
| MS -01 | | | 0.980 |
| -02 | | | 0.0361 |
| -03 | | | 0.0250 |
| -04 | | | 0.0309 |
| -05 | | | 0.0 |
| 74596-01 | | | 0.899 |
| CCV ~~-02~~ | | | 1.04 |
| CCB | | | 0.0 |
| -02 | ↓ | | 0.159 |
| 74967-01 | 5X (10mL / 50mL) | | 0.521 |
| 75227-01 | 100X (0.5mL / 50mL) | | 0.312 |
| 75228-01 | ↓ | | 0.344 |
| CCV | ~~X~~ 50mL | | 1.01 |
| CCB | ↓ | | 0.0 |
| Blank | 1.0123 | | 0.00533 |
| LCS | 1.0056 | | 1.75 |
| LCS-D | 1.0018 | | 1.72 |
| 74703-01 | 0.5052 | | 1.02 |
| -03 | 0.5093 | | 0.928 |
| CCV | 50mL | | 1.01 |
| CCB | ↓ | ↓ | 0.0 |

To Page No. ______

sed & Understood by me, | Date | Invented by: | Date

Recorded by:

Project No. ______

idential Book No. ______ TITLE ______

Page No. ____

| Tube | Sample | Volume | Final Volume | Comments |
|---|---|---|---|---|
| 1 | Blank | 50mL | 50mL | DTH 12/17/24 2:08 |
| 2 | LCS | | | 1.0mL F092424 |
| 3 | 73162-01 | | | |
| 4 | -02 | | | |
| 5 | -05 | | | |
| 6 | -06 | | | |
| 7 | -Dup 06 | | | |
| 8 | -MS 06 | | | 0.5mL F092424 |
| 9 | -07 | | | |
| 20 | -08 | | | |
| 11 | -09 | | | |
| 12 | -10 | | | |

| Tube | Sample | Volume | Final Volume | Block | Comments |
|---|---|---|---|---|---|
| 1 | Blank | 50mL | 50mL | Block #2 | DTH 12/22/24 @ 5:18 |
| 2 | LCS | | | | 1.0mL F092424-100ppm |
| 3 | 74329-01 | | | | |
| 4 | -Dup 01 | | | | |
| 5 | -MS 01 | | | | 0.5mL F092424-100ppm |
| 6 | -02 | | | | |
| 7 | -03 | | | | |
| 8 | -04 | | | | |
| 9 | -05 | | | | |
| 10 | 75586-01 | | | | |
| 11 | -02 | | | Block #3 | |
| 12 | 74967-01 | 5x (10mL↑50mL) | | | |
| 13 | 75227-01 | 100x (0.5mL↑50mL) | | | |
| 14 | 75228-01 | | | | |
| 20 | Blank | 1.0123 | | Block 1 | Started @ 4:07 |
| 19 | LCS | 1.0056 | | | 1.0mL F092424-100ppm |
| 18 | LCS-D | 1.0018 | | | 1.0mL F092424-100ppm |
| 17 | 74703-01 | 0.5852 | | | |
| 16 | -03 | 0.5093 | | | |

To Page No. ____

essed & Understood by me, | Date | Invented by: | Date

Recorded by:

# Phosphates
# Analysis

# Results

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-01** | **Date Collected** | **: 12/16/24 11:00** |
| **Client ID** | **: MW-4S** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/23/24 15:34** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 121,4500P-E(M)** | **Analyst** | **: MEF** |
| **Lab File ID** | **: PHOS122324-WG2011858.csv** | **Instrument ID** | **: SEAL2** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **: 12/23/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 7723-14-0 | Phosphate, Total | 0.034 | 0.031 | 0.012 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-02 | Date Collected | : 12/16/24 11:50 |
| Client ID | : MW-4D2 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/23/24 15:35 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500P-E(M) | Analyst | : MEF |
| Lab File ID | : PHOS122324-WG2011858.csv | Instrument ID | : SEAL2 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : 12/23/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 7723-14-0 | Phosphate, Total | 0.071 | 0.031 | 0.012 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-03** | **Date Collected** | **: 12/16/24 08:45** |
| **Client ID** | **: MW-12S** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/23/24 15:38** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 121,4500P-E(M)** | **Analyst** | **: MEF** |
| **Lab File ID** | **: PHOS122324-WG2011858.csv** | **Instrument ID** | **: SEAL2** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **: 12/23/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 7723-14-0 | Phosphate, Total | 0.037 | 0.031 | 0.012 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-04 | Date Collected | : 12/16/24 09:33 |
| Client ID | : MW-12D | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/23/24 15:39 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,4500P-E(M) | Analyst | : MEF |
| Lab File ID | : PHOS122324-WG2011858.csv | Instrument ID | : SEAL2 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : 12/23/24 |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 7723-14-0 | Phosphate, Total | 0.022 | 0.031 | 0.012 | J |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-05 | Date Collected | : 12/16/24 12:00 |
| Client ID | : EB-12162024 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/23/24 15:40 |
| Sample Matrix | : Equipment Blank | Dilution Factor | : 1 |
| Analytical Method | : 121,4500P-E(M) | Analyst | : MEF |
| Lab File ID | : PHOS122324-WG2011858.csv | Instrument ID | : SEAL2 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : 12/23/24 |

| CAS NO. | Parameter | mg/l Results | mg/l RL | mg/l MDL | Qualifier |
|---|---|---|---|---|---|
| 7723-14-0 | Phosphate, Total | 0.015 | 0.031 | 0.012 | J |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: WG2011858-1** | **Date Collected** | **: NA** |
| **Client ID** | **: WG2011858-1BLANK** | **Date Received** | **: NA** |
| **Sample Location** | **:** | **Date Analyzed** | **: 12/23/24 15:15** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 121,4500P-E(M)** | **Analyst** | **: MEF** |
| **Lab File ID** | **: PHOS122324-WG2011858.csv** | **Instrument ID** | **: SEAL2** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **: 12/23/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 7723-14-0 | Phosphate, Total | ND | 0.031 | 0.012 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: WG2011858-3** | **Date Collected** | **: 12/17/24 00:00** |
| **Client ID** | **: WG2011858-3 DUP** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **:** | **Date Analyzed** | **: 12/23/24 15:18** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 121,4500P-E(M)** | **Analyst** | **: MEF** |
| **Lab File ID** | **: PHOS122324-WG2011858.csv** | **Instrument ID** | **: SEAL2** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **: 12/23/24** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 7723-14-0 | Phosphate, Total | 0.098 | 0.031 | 0.012 | |

# Sample Raw Data

# AQ2 Tray Report

| | |
|---|---|
| **Software version :** | 2.4.5 |
| **Report requested by :** | MFlaherty |
| **Date \ Time :** | 23-Dec-2024 15:46:27 |
| **Tray number :** | 1 |
| **Tray name :** | WG2011858 |

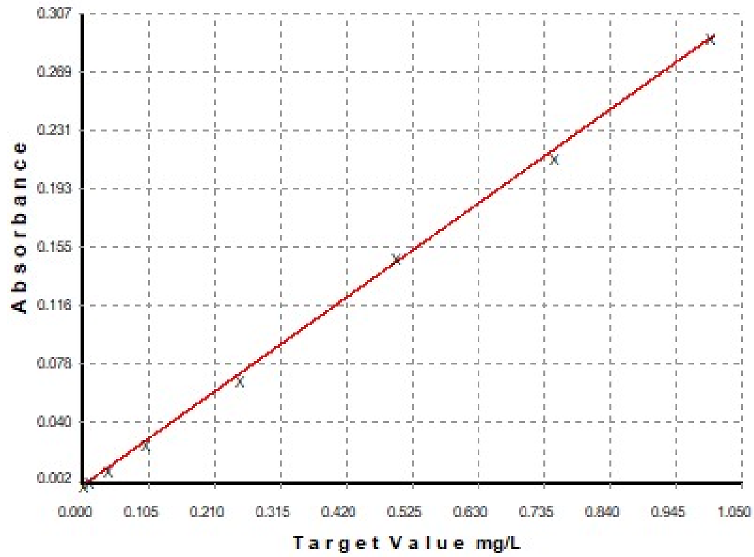
## T-Phos 1

### Calibration Chart

| Type | Absorbance | Calc mg/L | Target mg/L | % Error |
|---|---|---|---|---|
| S1 | 0.0022 | 0.005 | 0.000 | |
| S90 | 0.0044 | 0.013 | 0.010 | 29.18 |
| S91 | 0.0121 | 0.039 | 0.040 | -1.67 |
| S92 | 0.0286 | 0.096 | 0.100 | -3.69 |
| S93 | 0.0702 | 0.240 | 0.250 | -4.11 |
| S94 | 0.1495 | 0.513 | 0.500 | 2.68 |
| S95 | 0.2144 | 0.737 | 0.750 | -1.72 |
| S96 | 0.2923 | 1.006 | 1.000 | 0.59 |
| S0 | 0.0022 | 0.005 | 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 =: | -2.350035E-03 |
| b =: | 3.449598E+00 |
| Date & Time : | 23-Dec-2024 15:12:47 |

### Calibration Graph




## Reagents

| Reagent Name | Batch Number | Operator | Expiry Date |
|---|---|---|---|
| TP Working Color | TP Color-12172024 | MEF | 07-Jan-2025 00:00:00 |
| TP Ascorbic | TP Ascorbic-12192024 | MEF | 26-Dec-2024 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 | | | 0.002213 | | | MEF | 23-Dec-2024 15:05:00 |
| | S90 | Standard 90 | | 0.004 | | | 0.004426 | | | MEF | 23-Dec-2024 15:05:58 |
| | S91 | Standard 91 | | 0.012 | | | 0.012083 | | | MEF | 23-Dec-2024 15:06:56 |
| | S92 | Standard 92 | | 0.029 | | | 0.028602 | | | MEF | 23-Dec-2024 15:07:54 |
| | S93 | Standard 93 | | 0.070 | | | 0.070175 | | | MEF | 23-Dec-2024 15:08:53 |
| | S94 | Standard 94 | | 0.150 | | | 0.149517 | | | MEF | 23-Dec-2024 15:09:51 |
| | S95 | Standard 95 | | 0.214 | | | 0.214365 | | | MEF | 23-Dec-2024 15:10:50 |
| | S96 | Standard 96 | | 0.292 | | | 0.292275 | | | MEF | 23-Dec-2024 15:11:48 |
| | S0 | Standard 0 | | 0.002 | | | 0.002153 | | | MEF | 23-Dec-2024 15:12:47 |
| 2 | ICV | ICV | 23-DEC-2024 13-30 | 0.514 | mg/L | | 0.149717 | | | MEF | 23-Dec-2024 15:13:46 |
| 3 | ICB | ICB | 23-DEC-2024 13-30 | 0.004 | mg/L | | 0.001861 | | | MEF | 23-Dec-2024 15:14:46 |
| 4 | U1 | WG2011858-1O | 23-DEC-2024 13-30 | 0.003ELL | mg/L | | 0.001691 | | | MEF | 23-Dec-2024 15:15:47 |
| 5 | U2 | WG2011858-2O | 23-DEC-2024 13-30 | 0.502 | mg/L | | 0.146061 | | | MEF | 23-Dec-2024 15:16:46 |
| 6 | U3 | L2474281-01O | 23-DEC-2024 13-30 | 0.027 | mg/L | | 0.008572 | | | MEF | 23-Dec-2024 15:17:45 |
| 7 | U4 | WG2011858-3O | 23-DEC-2024 13-30 | 0.032 | mg/L | | 0.010081 | | | MEF | 23-Dec-2024 15:18:44 |
| 8 | U5 | WG2011858-4O | 23-DEC-2024 13-30 | 0.534 | mg/L | | 0.155539 | | | MEF | 23-Dec-2024 15:19:43 |
| 9 | U6 | L2474281-02O | 23-DEC-2024 13-30 | 0.008 | mg/L | | 0.003120 | | | MEF | 23-Dec-2024 15:20:42 |
| 10 | U7 | L2474281-03O | 23-DEC-2024 13-30 | 0.015 | mg/L | | 0.004992 | | | MEF | 23-Dec-2024 15:21:41 |
| 11 | U8 | L2474281-04O | 23-DEC-2024 13-30 | 0.046 | mg/L | | 0.014039 | | | MEF | 23-Dec-2024 15:22:40 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 12 | U9 | L2474281-05O | 23-DEC-2024 13-30 | 0.008 | mg/L | 0.003082 | MEF | 23-Dec-2024 15:23:39 |
| 13 | U10 | L2474281-06O | 23-DEC-2024 13-30 | 0.045 | mg/L | 0.013652 | MEF | 23-Dec-2024 15:24:37 |
| | CCV | CCV | | 0.508 | mg/L | 0.147904 | MEF | 23-Dec-2024 15:25:36 |
| | CCB | CCB | | 0.004 | mg/L | 0.001835 | MEF | 23-Dec-2024 15:26:37 |
| 14 | U11 | L2474281-07O | 23-DEC-2024 13-30 | 0.039 | mg/L | 0.012013 | MEF | 23-Dec-2024 15:27:38 |
| 15 | U12 | L2474281-08O | 23-DEC-2024 13-30 | 0.020 | mg/L | 0.006428 | MEF | 23-Dec-2024 15:28:36 |
| 16 | U13 | L2474281-09O | 23-DEC-2024 13-30 | 0.008 | mg/L | 0.003044 | MEF | 23-Dec-2024 15:29:35 |
| 17 | U14 | L2474281-10O | 23-DEC-2024 13-30 | 0.008 | mg/L | 0.002874 | MEF | 23-Dec-2024 15:30:33 |
| 18 | U15 | L2474281-11O | 23-DEC-2024 13-30 | 0.042 | mg/L | 0.012760 | MEF | 23-Dec-2024 15:31:34 |
| 19 | U16 | L2474291-01O | 23-DEC-2024 13-30 | 0.064 | mg/L | 0.019319 | MEF | 23-Dec-2024 15:32:34 |
| 20 | U17 | L2474291-02O | 23-DEC-2024 13-30 | 0.041 | mg/L | 0.012699 | MEF | 23-Dec-2024 15:33:07 |
| 21 | U18 | L2474291-03O | 23-DEC-2024 13-30 | 0.098 | mg/L | 0.028976 | MEF | 23-Dec-2024 15:34:05 |
| 22 | U19 | L2474329-01O | 23-DEC-2024 13-30 | 0.011 | mg/L | 0.003771 | MEF | 23-Dec-2024 15:34:56 |
| 23 | U20 | L2474329-02O | 23-DEC-2024 13-30 | 0.023 | mg/L | 0.007404 | MEF | 23-Dec-2024 15:35:47 |
| | CCV | CCV | | 0.503 | mg/L | 0.146631 | MEF | 23-Dec-2024 15:36:38 |
| | CCB | CCB | | 0.004 | mg/L | 0.001846 | MEF | 23-Dec-2024 15:37:30 |
| 24 | U21 | L2474329-03O | 23-DEC-2024 13-30 | 0.012 | mg/L | 0.004073 | MEF | 23-Dec-2024 15:38:21 |
| 25 | U22 | L2474329-04O | 23-DEC-2024 13-30 | 0.007 | mg/L | 0.002582 | MEF | 23-Dec-2024 15:39:12 |
| 26 | U23 | L2474329-05O | 23-DEC-2024 13-30 | 0.005ELL | mg/L | 0.002158 | MEF | 23-Dec-2024 15:40:04 |
| | CCV | CCV | | 0.508 | mg/L | 0.148085 | MEF | 23-Dec-2024 15:40:55 |
| | CCB | CCB | | 0.006 | mg/L | 0.002364 | MEF | 23-Dec-2024 15:41:46 |

# Quality Control

# Form 5a
# Matrix Spike

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Client Sample ID** | : NA | **Matrix** | : WATER |
| **Lab Sample ID** | : L2474281-01 | | |
| **Matrix Spike** | : WG2011858-4 | **MS Analysis Date** | : 12/23/24 15:19 |
| **Matrix Spike Dup** | : | **MSD Analysis Date** | : |

| Parameter | Sample Conc. (mg/l) | Matrix Spike Sample: Spike Added (mg/l) | Matrix Spike Sample: Spike Conc. (mg/l) | Matrix Spike Sample: %R | Matrix Spike Duplicate: Spike Added (mg/l) | Matrix Spike Duplicate: Spike Conc. (mg/l) | Matrix Spike Duplicate: %R | RPD | Recovery Limits | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Phosphate, Total | 0.083 | 1.53 | 1.64 | 102 | | | | | 80-120 | 15 |

# Form 6
# Lab Duplicates

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Client Sample ID** | : NA | **Matrix** | : WATER |
| **Lab Sample ID** | : NA | **Analysis Date** | : 12/23/24 15:17 |
| **Dup Sample ID** | : WG2011858-3 | **DUP Analysis Date** | : 12/23/24 15:18 |

| Parameter | Sample Concentration (mg/l) | Duplicate Concentration (mg/l) | RPD | RPD Limit |
|---|---|---|---|---|
| Phosphate, Total | 0.083 | 0.098 | 17 Q | 15 |

# Form 7
# Laboratory Control Sample

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Client Sample ID** | : NA | **Matrix** | : WATER |
| **Lab Sample ID** | : WG2011858-2 | **LCS Analysis Date** | : 12/23/24 15:16 |
| **Dup Sample ID** | : | **LCSD Analysis Date** | : |

| | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Parameter | True (mg/l) | Found (mg/l) | %R | True (mg/l) | Found (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
| Phosphate, Total | 1.53 | 1.54 | 101. | | | | | 84-118 | 15 |

**Date Created:** 11/11/21
**Created By:** Jason Hebert
**File:** PM11467-1
**Page:** 1

**WETCHEM (WATER)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Method | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, Total | 7723-14-0 | 0.01 | 0.004 | mg/l | 80-120 | | 75-125 | 20 | 20 | 4500P-E | 28 days | 1 - Plastic 500ml H2SO4 preserved |

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

**WETCHEM (SOIL)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Method | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, Total | 7723-14-0 | 5 | 1.67 | mg/kg | 52-148 | 20 | 75-125 | 20 | 20 | 4500P-E | 28 days | 1 - Glass 250ml/8oz unpreserved |

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

**Date Created:** 11/11/21
**Created By:** Jason Hebert
**File:** PM11467-1
**Page:** 1

**WETCHEM (WATER)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Method | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, Orthophosphate | 7723-14-0 | 0.005 | 0.001 | mg/l | 90-110 | | 80-120 | 20 | 20 | 4500P-E | 48 hours | 1 - Plastic 500ml unpreserved |

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

| | |
|---|---|
| **Date Created:** | 11/11/21 |
| **Created By:** | Jason Hebert |
| **File:** | PM11468-1 |
| **Page:** | 1 |

**WETCHEM (SOIL)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Method | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, Orthophosphate | 7723-14-0 | 0.05 | 0.05 | mg/kg | | | | | | 4500P-E | 48 hours | 1 - Glass 250ml/8oz unpreserved |

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

# <u>**Calculations of TPhosphorus**</u>

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve. All calculations are done by SEAL (segmant flow spectrometer).

$$\text{Mg TPhosphorus/L} = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

# Total Suspended Solids Analysis

# Results

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-01** | **Date Collected** | **: 12/16/24 11:00** |
| **Client ID** | **: MW-4S** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/21/24 04:14** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 121,2540D** | **Analyst** | **: MRM** |
| **Lab File ID** | **: WG2012096.pdf** | **Instrument ID** | **: BALANCE#22** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **:** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| **NONE** | **Solids, Total Suspended** | **ND** | **5.0** | **NA** | **U** |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-02 | Date Collected | : 12/16/24 11:50 |
| Client ID | : MW-4D2 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 04:14 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,2540D | Analyst | : MRM |
| Lab File ID | : WG2012096.pdf | Instrument ID | : BALANCE#22 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| CAS NO. | Parameter | mg/l Results | RL | MDL | Qualifier |
|---|---|---|---|---|---|
| NONE | Solids, Total Suspended | ND | 5.0 | NA | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-03 | Date Collected | : 12/16/24 08:45 |
| Client ID | : MW-12S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 04:14 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,2540D | Analyst | : MRM |
| Lab File ID | : WG2012096.pdf | Instrument ID | : BALANCE#22 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Solids, Total Suspended | ND | 5.0 | NA | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-04 | Date Collected | : 12/16/24 09:33 |
| Client ID | : MW-12D | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 04:14 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 121,2540D | Analyst | : MRM |
| Lab File ID | : WG2012096.pdf | Instrument ID | : BALANCE#22 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Solids, Total Suspended | ND | 5.0 | NA | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-05 | Date Collected | : 12/16/24 12:00 |
| Client ID | : EB-12162024 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/21/24 04:14 |
| Sample Matrix | : Equipment Blank | Dilution Factor | : 1 |
| Analytical Method | : 121,2540D | Analyst | : MRM |
| Lab File ID | : WG2012096.pdf | Instrument ID | : BALANCE#22 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Solids, Total Suspended | ND | 5.0 | NA | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: WG2012096-1** | **Date Collected** | **: NA** |
| **Client ID** | **: WG2012096-1BLANK** | **Date Received** | **: NA** |
| **Sample Location** | **:** | **Date Analyzed** | **: 12/21/24 04:14** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 121,2540D** | **Analyst** | **: MRM** |
| **Lab File ID** | **: WG2012096.pdf** | **Instrument ID** | **: BALANCE#22** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **:** |

| CAS NO. | Parameter | mg/l Results | mg/l RL | mg/l MDL | Qualifier |
|---|---|---|---|---|---|
| NONE | Solids, Total Suspended | ND | 5.0 | NA | U |

# Form 1
# WETCHEM

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : | **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : | **L2474329** |
| **Project Name** | : | **CORAM MATERIALS** | **Project Number** | : | **2232.0006Y005** |
| **Lab ID** | : | **WG2012096-3** | **Date Collected** | : | **11/22/24 00:00** |
| **Client ID** | : | **WG2012096-3 DUP** | **Date Received** | : | **11/22/24** |
| **Sample Location** | : | | **Date Analyzed** | : | **12/21/24 04:14** |
| **Sample Matrix** | : | **WATER** | **Dilution Factor** | : | **50** |
| **Analytical Method** | : | **121,2540D** | **Analyst** | : | **MRM** |
| **Lab File ID** | : | **WG2012096.pdf** | **Instrument ID** | : | **BALANCE#22** |
| **Sample Amount** | : | | **%Solids** | : | **N/A** |
| **Digestion Method** | : | | **Date Digested** | : | |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| NONE | Solids, Total Suspended | 260 | 250 | NA | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2012096-4 | Date Collected | : 11/22/24 00:00 |
| Client ID | : WG2012096-4 DUP | Date Received | : 11/22/24 |
| Sample Location | : | Date Analyzed | : 12/21/24 04:14 |
| Sample Matrix | : WATER | Dilution Factor | : 50 |
| Analytical Method | : 121,2540D | Analyst | : MRM |
| Lab File ID | : WG2012096.pdf | Instrument ID | : BALANCE#22 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| NONE | Solids, Total Suspended | 290 | 250 | NA | |

# Sample Raw Data

# Wet Chemistry Gravimetric ELN

Printed: DEC-21-24 21:44:54

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **WorkGroup** | WG2012096 | **Temp In (C)** | 105 | **Temp In (C)** | 105 | **Temp In (C)** | | **Temp In (C)** | **Temp In (C)** |
| **Title** | Solids, Total Suspended | **Temp Out (C)** | 105 | **Temp Out (C)** | 105 | **Temp Out (C)** | | **Temp Out (C)** | **Temp Out (C)** |
| **Method** | SM2540D | **Time In** | 21-DEC-24 05:10 | **Time In** | 21-DEC-24 16:46 | **Time In** | | **Time In** | **Time In** |
| **Instrument** | BALANCE#22 | **Time Out** | 21-DEC-24 16:00 | **Time Out** | 21-DEC-24 20:25 | **Time Out** | | **Time Out** | **Time Out** |

**Evaporation** **Temp In (C)** **Time In**

| LCS Lot # | TrueValue | Units |
|---|---|---|
| 86366 | 271.8 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L2469027-44 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 4 | 18211399 | .426 | 20 | .4316 | .4314 | | | | 270.00 | 50 | |
| L2469027-45 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 5 | 18211399 | .4283 | 20 | .4336 | .434 | | | | 265.00 | 50 | |
| L2473297-02 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 6 | 18211399 | .4254 | 1000 | .4305 | .4302 | | | | 4.80 | 1 | |
| L2473800-03 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 7 | 18211399 | .4238 | 1000 | .4252 | .4252 | | | | 1.40 | 1 | |
| L2473861-01 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 8 | 18211399 | .4237 | 1000 | .4263 | .4265 | | | | 2.60 | 1 | |
| L2473863-01 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 9 | 18211399 | .4239 | 200 | .4669 | .4671 | | | | 215.00 | 5 | |
| L2473927-01 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 10 | 18211399 | .4251 | 1000 | .4259 | .4259 | | | | 0.80 | 1 | |
| L2473927-02 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 11 | 18211399 | .4223 | 1000 | .4228 | .4226 | | | | 0.30 | 1 | |
| L2473987-01 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 12 | 18211399 | .4228 | 1000 | .429 | .4287 | | | | 5.90 | 1 | |
| L2473988-01 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 13 | 18211399 | .4263 | 1000 | .4879 | .4883 | | | | 61.60 | 1 | |
| L2473989-01 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 14 | 18211399 | .424 | 200 | .5213 | .5216 | | | | 486.50 | 5 | |
| L2474051-01 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 15 | 18211399 | .4291 | 1000 | .4332 | .4333 | | | | 4.10 | 1 | |
| L2474060-01 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 16 | 18211399 | .4265 | 1000 | .4353 | .4355 | | | | 8.80 | 1 | |
| L2474082-01 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 17 | 18211399 | .424 | 200 | .466 | .4657 | | | | 208.50 | 5 | MTX |
| L2474101-01 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 18 | 18211399 | .4253 | 1000 | .4314 | .4317 | | | | 6.10 | 1 | |
| L2474329-01 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 19 | 18211399 | .4251 | 1000 | .4253 | .4257 | | | | 0.20 | 1 | |
| L2474329-02 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 20 | 18211399 | .4216 | 1000 | .4229 | .4229 | | | | 1.30 | 1 | |
| L2474329-03 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 21 | 18211399 | .4291 | 1000 | .4334 | .4337 | | | | 4.30 | 1 | |

# Wet Chemistry Gravimetric ELN

Printed: DEC-21-24 21:44:54

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **WorkGroup** | WG2012096 | **Temp In (C)** | 105 | **Temp In (C)** | 105 | **Temp In (C)** | **Temp In (C)** | **Temp In (C)** | |
| **Title** | Solids, Total Suspended | **Temp Out (C)** | 105 | **Temp Out (C)** | 105 | **Temp Out (C)** | **Temp Out (C)** | **Temp Out (C)** | |
| **Method** | SM2540D | **Time In** | 21-DEC-24 05:10 | **Time In** | 21-DEC-24 16:46 | **Time In** | **Time In** | **Time In** | |
| **Instrument** | BALANCE#22 | **Time Out** | 21-DEC-24 16:00 | **Time Out** | 21-DEC-24 20:25 | **Time Out** | **Time Out** | **Time Out** | |

**Temp In (C)** **Time In**

| LCS Lot # | TrueValue | Units |
|---|---|---|
| 86366 | 271.8 | mg/l |

| Sample # | Analysis Date | Analyst | Cup ID | | | Sample Volume (ml) | | | Result mg/L | Dil | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| L2474329-04 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 22 | 18211399 | .4278 | 1000 | .431 | .4312 | 3.20 | 1 | |
| L2474329-05 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 23 | 18211399 | .4286 | 1000 | .4286 | .4282 | -0.40 | 1 | |
| WG2012096-1 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 1 | 18211399 | .4249 | 1000 | .4248 | .4247 | -0.20 | 1 | |
| WG2012096-2 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 24 | 18211399 | .428 | 250 | .4934 | .4937 | 261.60 | 4 | 31748086 366 271.8+/-53.2 |
| WG2012096-3 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 2 | 18211399 | .4283 | 20 | .4336 | .4337 | 265.00 | 50 | |
| WG2012096-4 | 21-DEC-24 04:14 | MEGHAN MACKENZIE | 3 | 18211399 | .426 | 20 | .4319 | .4318 | 290.00 | 50 | |

# Quality Control

# Form 6
# Lab Duplicates

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Client Sample ID** | : NA | **Matrix** | : WATER |
| **Lab Sample ID** | : NA | **Analysis Date** | : 12/21/24 04:14 |
| **Dup Sample ID** | : WG2012096-3 | **DUP Analysis Date** | : 12/21/24 04:14 |

| Parameter | Sample Concentration (mg/l) | Duplicate Concentration (mg/l) | RPD | RPD Limit |
|---|---|---|---|---|
| Solids, Total Suspended | 270 | 260 | 4 | 32 |

# Form 6
# Lab Duplicates

| | | | |
|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | **Project Number** | : 2232.0006Y005 |
| **Client Sample ID** | : NA | **Matrix** | : WATER |
| **Lab Sample ID** | : NA | **Analysis Date** | : 12/21/24 04:14 |
| **Dup Sample ID** | : WG2012096-4 | **DUP Analysis Date** | : 12/21/24 04:14 |

| Parameter | Sample Concentration (mg/l) | Duplicate Concentration (mg/l) | RPD | RPD Limit |
|---|---|---|---|---|
| Solids, Total Suspended | 260 | 290 | 11 | 32 |

# Form 7
# Laboratory Control Sample

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : Roux Env. Eng. & Geology, DPC | | **Lab Number** | : L2474329 |
| **Project Name** | : CORAM MATERIALS | | **Project Number** | : 2232.0006Y005 |
| **Client Sample ID** | : NA | | **Matrix** | : WATER |
| **Lab Sample ID** | : WG2012096-2 | | **LCS Analysis Date** | : 12/21/24 04:14 |
| **Dup Sample ID** | : | | **LCSD Analysis Date** | : |

| Parameter | Laboratory Control Sample True (mg/l) | Found (mg/l) | %R | Laboratory Control Duplicate True (mg/l) | Found (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Solids, Total Suspended | 272. | 260. | 96. | | | | | 80-120 | 32 |

**Date Created:** 11/11/21
**Created By:** Jason Hebert
**File:** PM11467-1
**Page:** 1

## WETCHEM (WATER)

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Method | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Solids, Total Suspended | NONE | 5 | | mg/l | 80-120 | | | 29 | 29 | 2540D | 7 days | 1 - Plastic 950ml unpreserved |

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

## Calculations of TSS

$$\text{mgTSS/L} = \frac{(A - B) \times 1000}{\text{Sample volume, (L)}}$$

Where:

A = Final weight (weight of filter + dried residue, g)
B = Initial weight (weight of clean filter, g)

# Wet Chemistry
# By
# IC Methods

# Results

# Form 1
# WETCHEM

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : | **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : | **L2474329** |
| **Project Name** | : | **CORAM MATERIALS** | **Project Number** | : | **2232.0006Y005** |
| **Lab ID** | : | **L2474329-01** | **Date Collected** | : | **12/16/24 11:00** |
| **Client ID** | : | **MW-4S** | **Date Received** | : | **12/17/24** |
| **Sample Location** | : | **416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | : | **12/19/24 15:07** |
| **Sample Matrix** | : | **WATER** | **Dilution Factor** | : | **1** |
| **Analytical Method** | : | **44,300.0** | **Analyst** | : | **CVN,** |
| **Lab File ID** | : | **WG2011341** | **Instrument ID** | : | **IC3** |
| **Sample Amount** | : | | **%Solids** | : | **N/A** |
| **Digestion Method** | : | | **Date Digested** | : | |

| CAS NO. | Parameter | mg/l Results | RL | MDL | Qualifier |
|---|---|---|---|---|---|
| 24959-67-9 | Bromide | 0.034 | 0.050 | 0.013 | J |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| **Client** | **: Roux Env. Eng. & Geology, DPC** | **Lab Number** | **: L2474329** |
| **Project Name** | **: CORAM MATERIALS** | **Project Number** | **: 2232.0006Y005** |
| **Lab ID** | **: L2474329-02** | **Date Collected** | **: 12/16/24 11:50** |
| **Client ID** | **: MW-4D2** | **Date Received** | **: 12/17/24** |
| **Sample Location** | **: 416 MILLER PLACE-YAPHANK ROAD** | **Date Analyzed** | **: 12/19/24 15:19** |
| **Sample Matrix** | **: WATER** | **Dilution Factor** | **: 1** |
| **Analytical Method** | **: 44,300.0** | **Analyst** | **: CVN,** |
| **Lab File ID** | **: WG2011341B** | **Instrument ID** | **: IC3** |
| **Sample Amount** | **:** | **%Solids** | **: N/A** |
| **Digestion Method** | **:** | **Date Digested** | **:** |

| | | mg/l | | | |
|---|---|---|---|---|---|
| **CAS NO.** | **Parameter** | **Results** | **RL** | **MDL** | **Qualifier** |
| 24959-67-9 | Bromide | 0.046 | 0.050 | 0.013 | J |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-03 | Date Collected | : 12/16/24 08:45 |
| Client ID | : MW-12S | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/19/24 15:55 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 44,300.0 | Analyst | : CVN, |
| Lab File ID | : WG2011341 | Instrument ID | : IC3 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 24959-67-9 | Bromide | ND | 0.050 | 0.013 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-04 | Date Collected | : 12/16/24 09:33 |
| Client ID | : MW-12D | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/19/24 16:08 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 44,300.0 | Analyst | : CVN, |
| Lab File ID | : WG2011341 | Instrument ID | : IC3 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 24959-67-9 | Bromide | 0.060 | 0.050 | 0.013 | |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : L2474329-05 | Date Collected | : 12/16/24 12:00 |
| Client ID | : EB-12162024 | Date Received | : 12/17/24 |
| Sample Location | : 416 MILLER PLACE-YAPHANK ROAD | Date Analyzed | : 12/19/24 16:20 |
| Sample Matrix | : Equipment Blank | Dilution Factor | : 1 |
| Analytical Method | : 44,300.0 | Analyst | : CVN, |
| Lab File ID | : WG2011341 | Instrument ID | : IC3 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 24959-67-9 | Bromide | ND | 0.050 | 0.013 | U |

# Form 1
# WETCHEM

| | | | |
|---|---|---|---|
| Client | : Roux Env. Eng. & Geology, DPC | Lab Number | : L2474329 |
| Project Name | : CORAM MATERIALS | Project Number | : 2232.0006Y005 |
| Lab ID | : WG2011341-1 | Date Collected | : NA |
| Client ID | : WG2011341-1BLANK | Date Received | : NA |
| Sample Location | : | Date Analyzed | : 12/19/24 09:19 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 44,300.0 | Analyst | : CVN, |
| Lab File ID | : WG2011341 | Instrument ID | : IC3 |
| Sample Amount | : | %Solids | : N/A |
| Digestion Method | : | Date Digested | : |

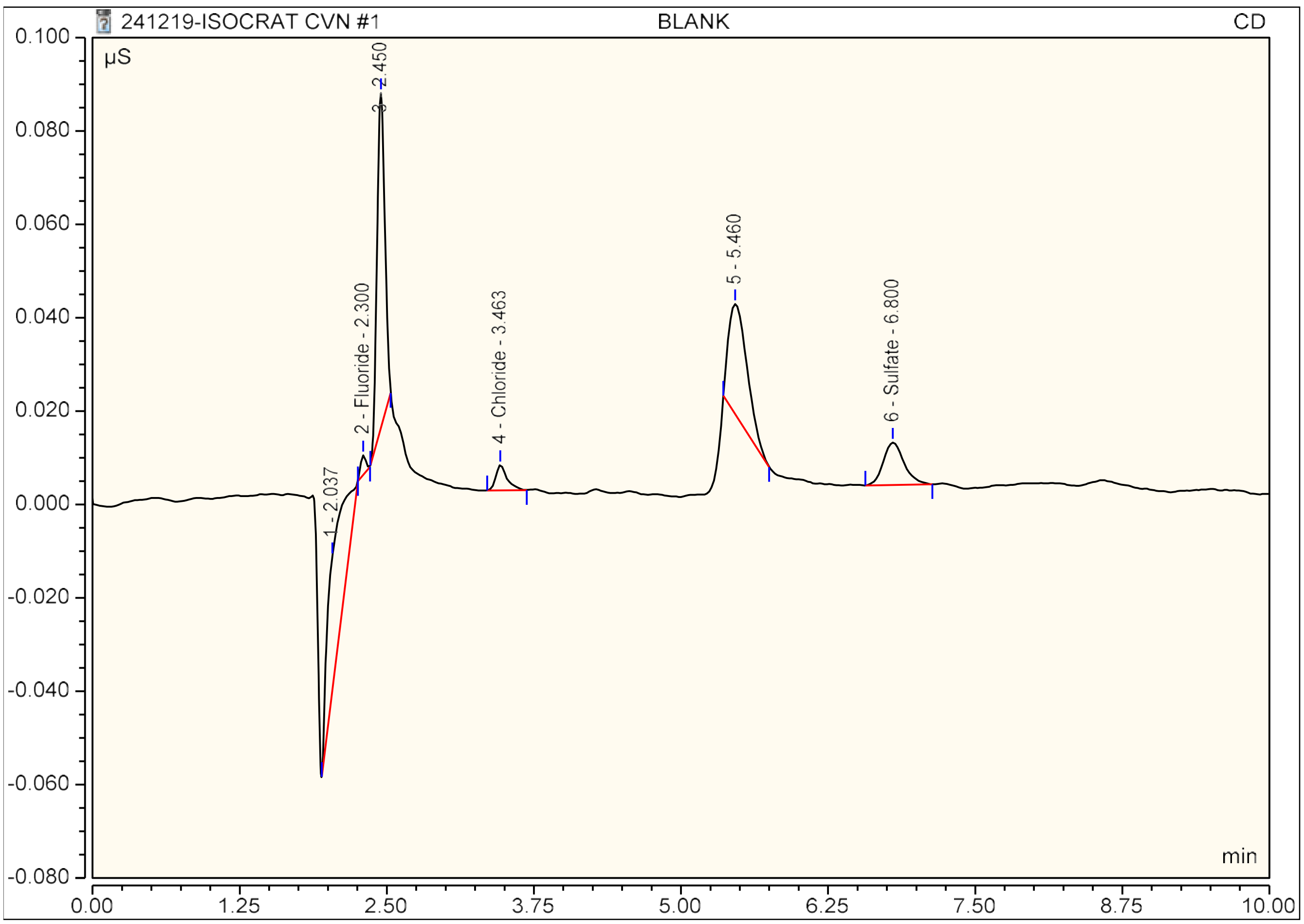
| | | mg/l | | | |
|---|---|---|---|---|---|
| CAS NO. | Parameter | Results | RL | MDL | Qualifier |
| 24959-67-9 | Bromide | ND | 0.050 | 0.013 | U |

# Sample Raw Data

## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **BLANK** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **11-Dec-2024 / 12:38** | *Run Time:* | **10.00** |

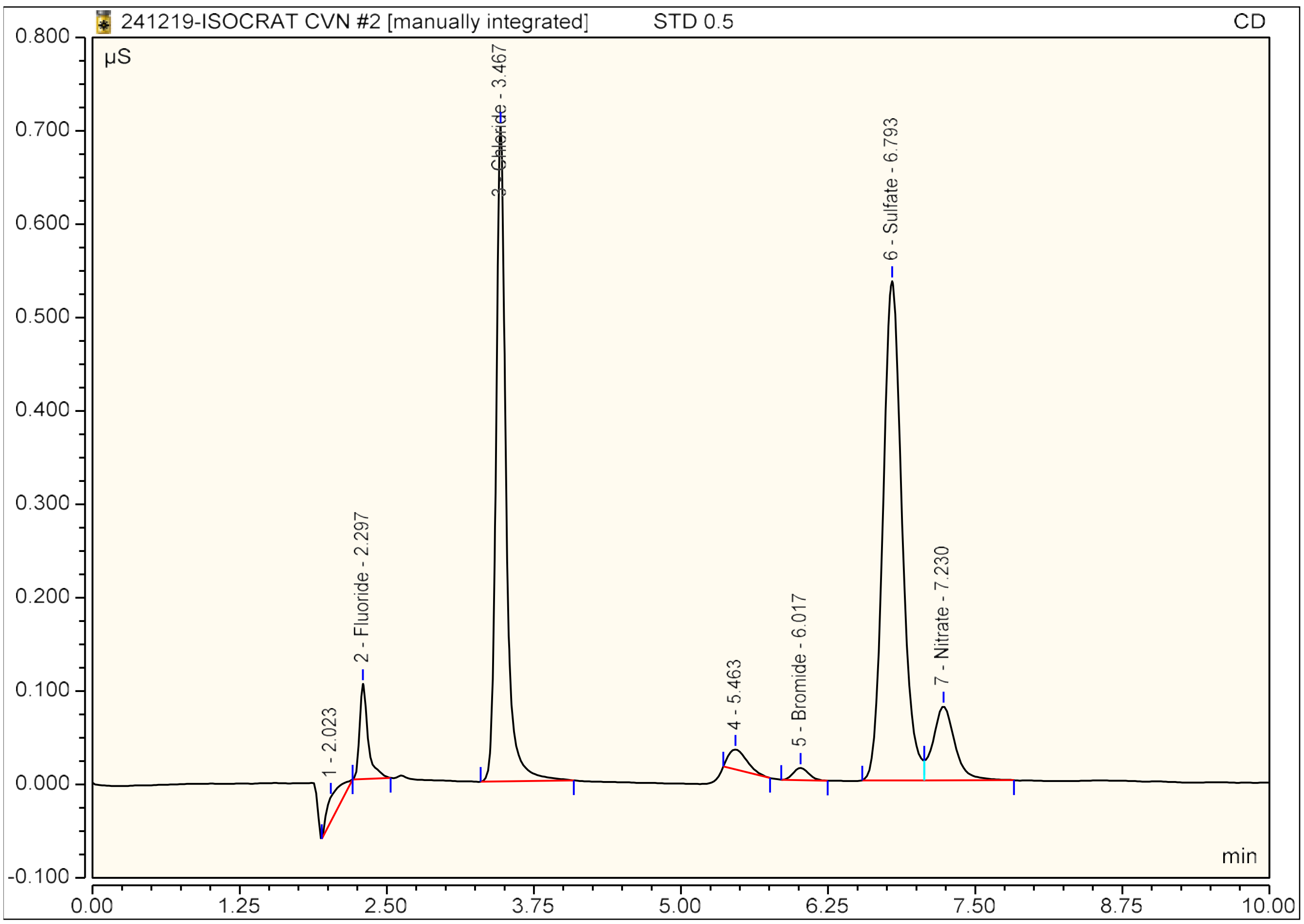
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.000 | 0.004 | 0.0220 |
| 4 | 3.46 | **Chloride** | BMB | 0.001 | 0.005 | 0.1192 |
| 6 | 6.80 | **Sulfate** | BMB | 0.002 | 0.009 | 0.2070 |
| | | **TOTAL:** | | 0.00 | 0.02 | 0.35 |



## 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:* | **11-Dec-2024 / 12:50** | *Run Time:* | **10.00** |

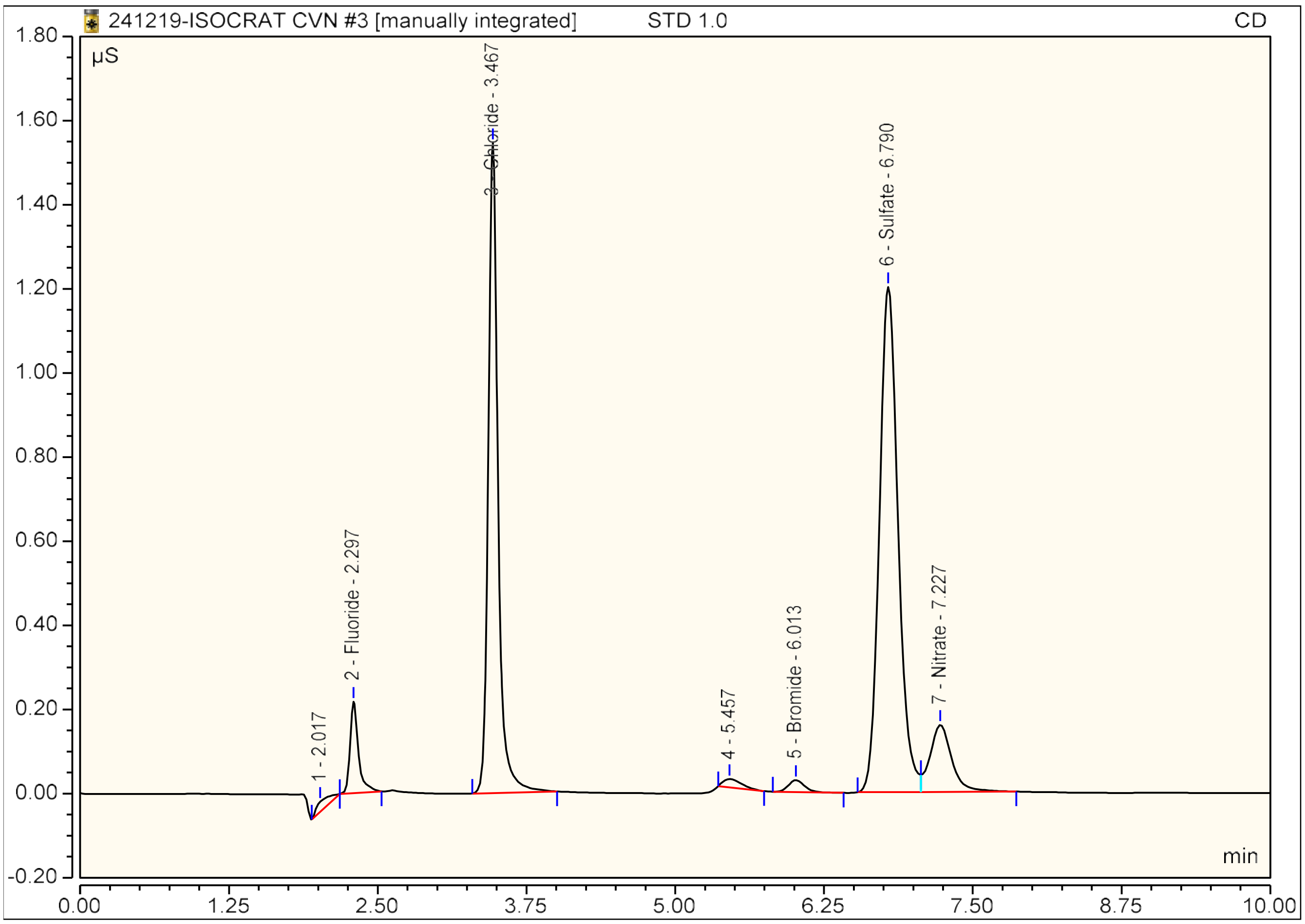
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.009 | 0.102 | 0.0378 |
| 3 | 3.47 | **Chloride** | BMB* | 0.070 | 0.701 | 0.3031 |
| 5 | 6.02 | **Bromide** | BMB | 0.002 | 0.013 | 0.0465 |
| 6 | 6.79 | **Sulfate** | BM * | 0.100 | 0.535 | 0.5516 |
| 7 | 7.23 | **Nitrate** | MB* | 0.017 | 0.079 | 0.0441 |
| | | **TOTAL:** | | 0.20 | 1.43 | 0.98 |



## 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:* | **11-Dec-2024 / 13:02** | *Run Time:* | **10.00** |

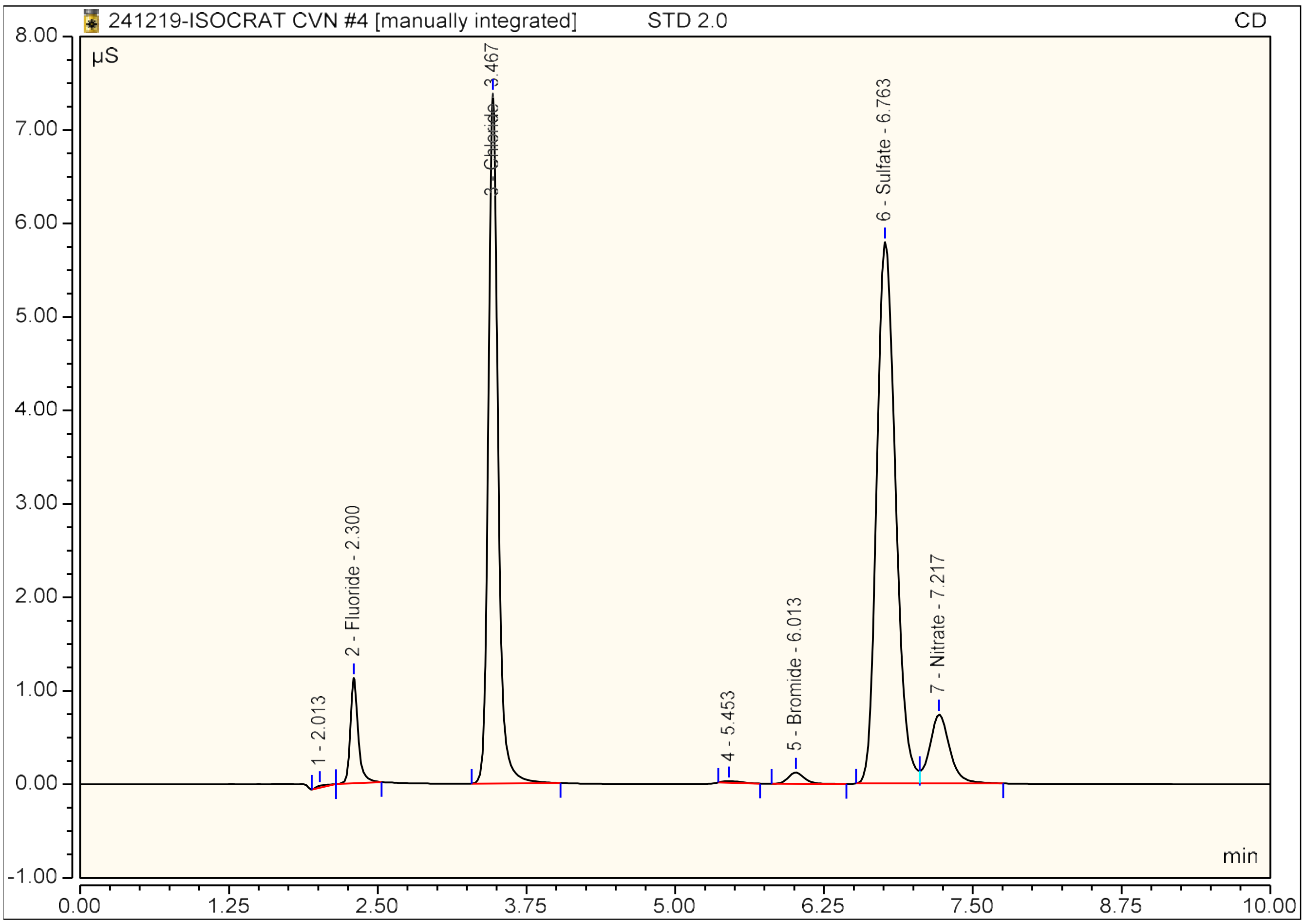
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.018 | 0.217 | 0.0550 |
| 3 | 3.47 | **Chloride** | BMB* | 0.148 | 1.545 | 0.5119 |
| 5 | 6.01 | **Bromide** | BMB | 0.004 | 0.028 | 0.0677 |
| 6 | 6.79 | **Sulfate** | BM * | 0.218 | 1.201 | 0.9678 |
| 7 | 7.23 | **Nitrate** | MB* | 0.034 | 0.159 | 0.0627 |
| | | **TOTAL:** | | 0.42 | 3.15 | 1.67 |



## 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:* | **11-Dec-2024 / 13:14** | *Run Time:* | **10.00** |

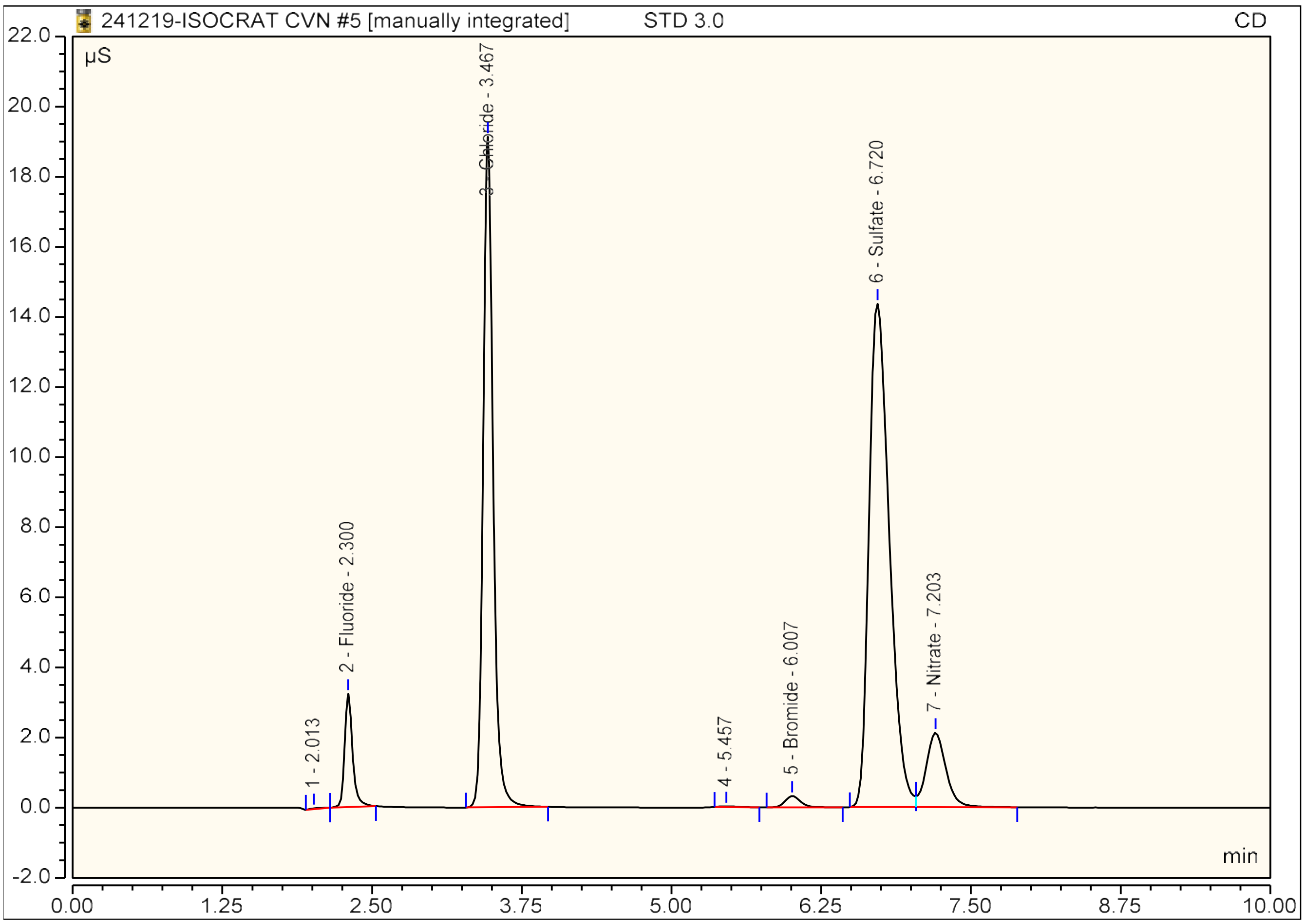
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.086 | 1.128 | 0.1840 |
| 3 | 3.47 | **Chloride** | BMB* | 0.706 | 7.380 | 1.9973 |
| 5 | 6.01 | **Bromide** | BMB | 0.019 | 0.121 | 0.1922 |
| 6 | 6.76 | **Sulfate** | BM * | 1.068 | 5.791 | 3.9537 |
| 7 | 7.22 | **Nitrate** | MB* | 0.145 | 0.739 | 0.1855 |
| | | **TOTAL:** | | 2.02 | 15.16 | 6.51 |



## 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:* | **11-Dec-2024 / 13:26** | *Run Time:* | **10.00** |

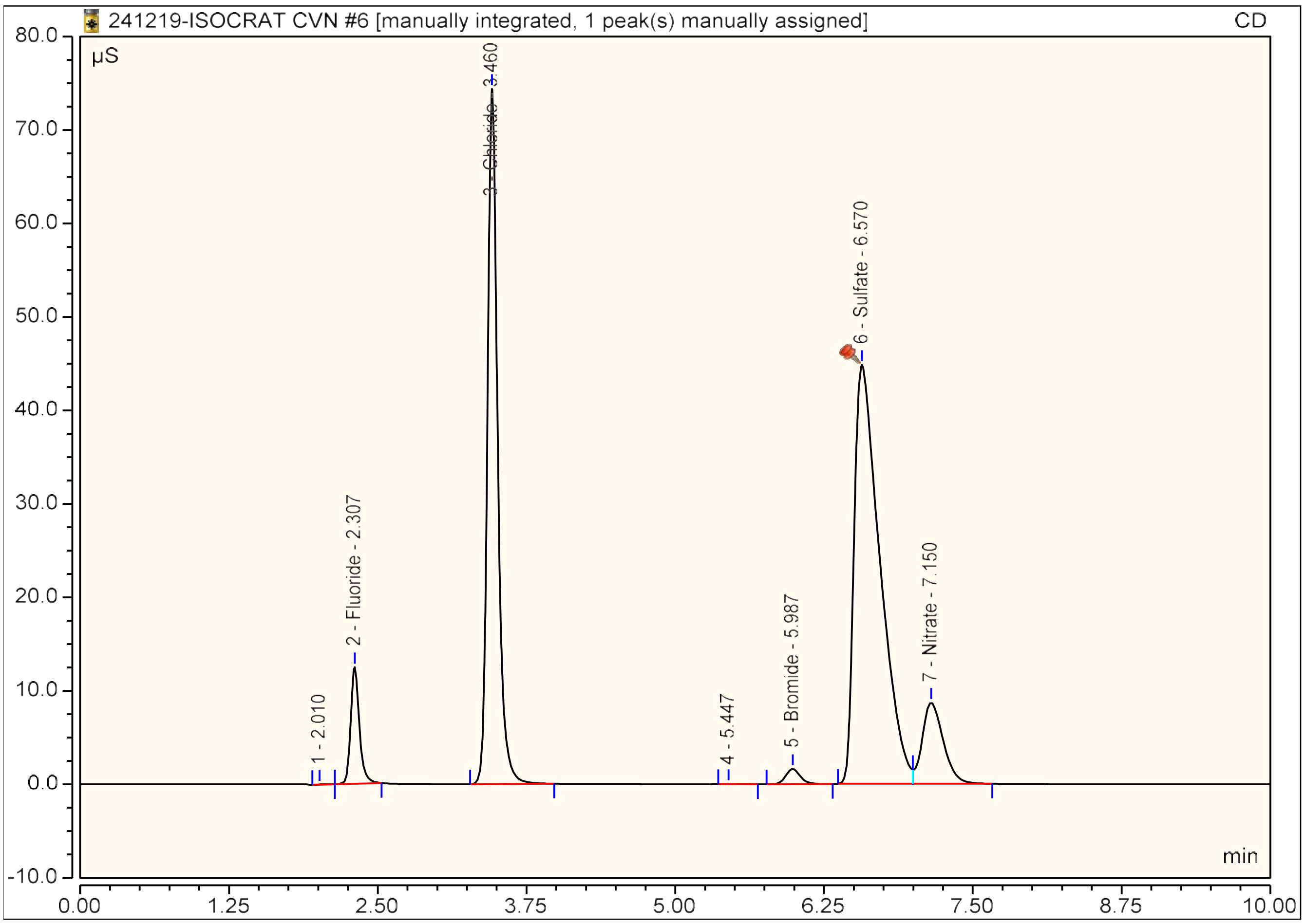
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.246 | 3.225 | 0.4887 |
| 3 | 3.47 | **Chloride** | BMB* | 1.850 | 19.128 | 5.0437 |
| 5 | 6.01 | **Bromide** | BMB | 0.050 | 0.327 | 0.4581 |
| 6 | 6.72 | **Sulfate** | BM * | 2.821 | 14.357 | 10.1180 |
| 7 | 7.20 | **Nitrate** | MB* | 0.406 | 2.120 | 0.4758 |
| | | **TOTAL:** | | 5.37 | 39.16 | 16.58 |



## 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:* | **11-Dec-2024 / 13:39** | *Run Time:* | **10.00** |

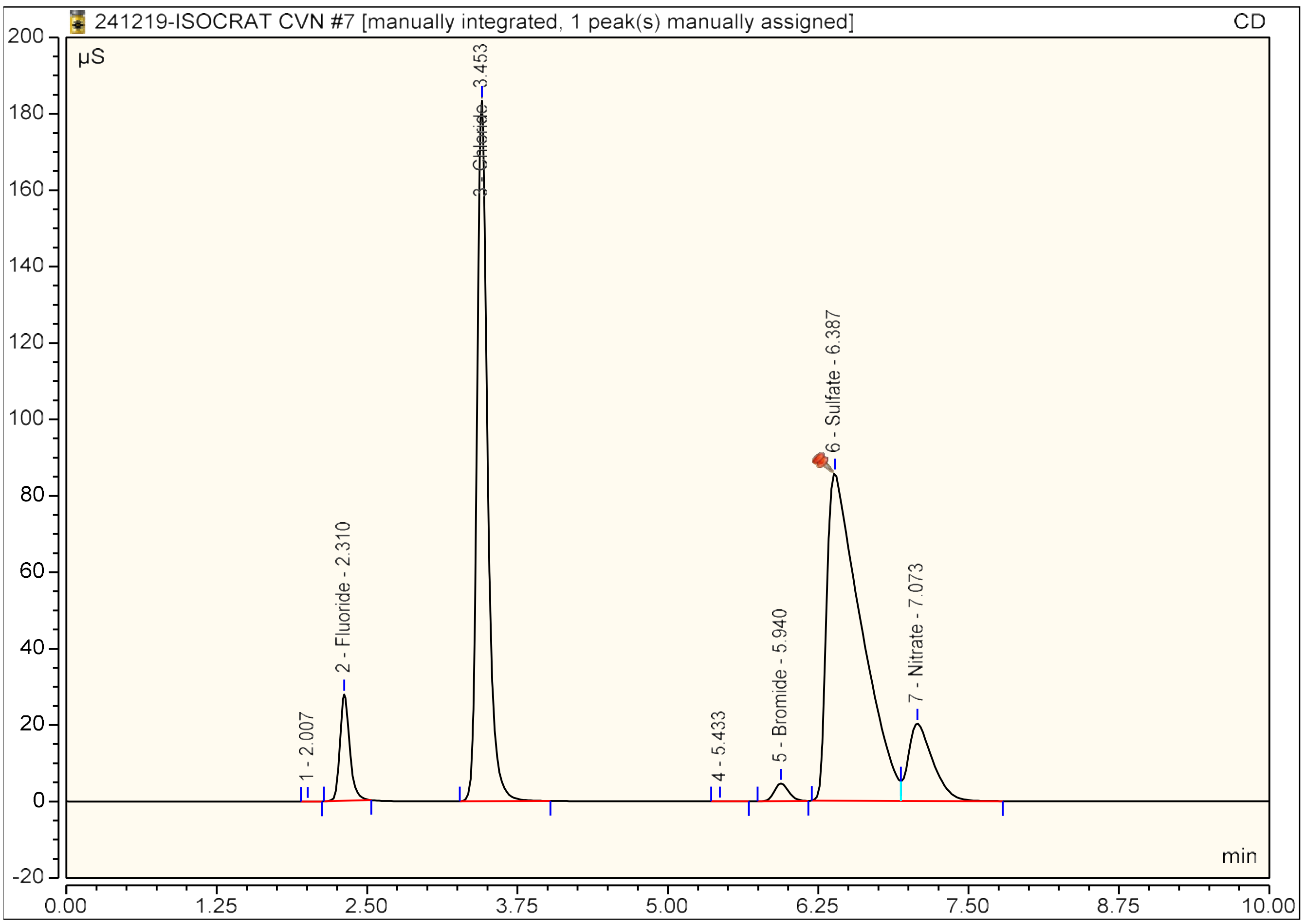
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.31 | **Fluoride** | BMB | 1.049 | 12.466 | 2.0130 |
| 3 | 3.46 | **Chloride** | BMB* | 7.404 | 74.364 | 19.8311 |
| 5 | 5.99 | **Bromide** | BMB | 0.232 | 1.623 | 2.0106 |
| 6 | 6.57 | **Sulfate** | BM *^ | 11.282 | 44.815 | 39.8646 |
| 7 | 7.15 | **Nitrate** | MB* | 1.787 | 8.674 | 2.0070 |
| | | **TOTAL:** | | 21.75 | 141.94 | 65.73 |



## 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:* | **11-Dec-2024 / 13:51** | *Run Time:* | **10.00** |

| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.31 | **Fluoride** | BMB | 2.620 | 27.875 | 4.9964 |
| 3 | 3.45 | **Chloride** | BMB* | 18.760 | 183.384 | 50.0629 |
| 5 | 5.94 | **Bromide** | BMB | 0.642 | 4.628 | 5.5192 |
| 6 | 6.39 | **Sulfate** | BM *^ | 28.400 | 85.718 | 100.0443 |
| 7 | 7.07 | **Nitrate** | MB* | 4.780 | 20.222 | 5.3254 |
| | | **TOTAL:** | | 55.20 | 321.83 | 165.95 |



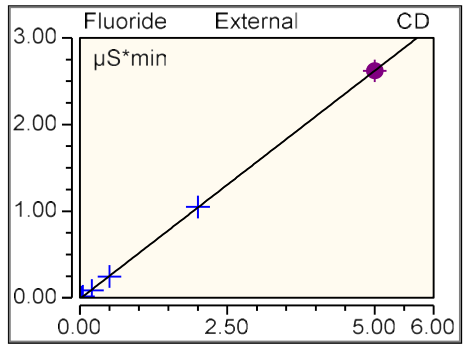
## Calibration Batch Report

| | | | |
|---|---|---|---|
| *Sequence:* | **241219-ISOCRAT CVN** | *Injection Volume:* | **25.00** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **11-Dec-2024 / 13:51** | *Run Time:* | **10** |

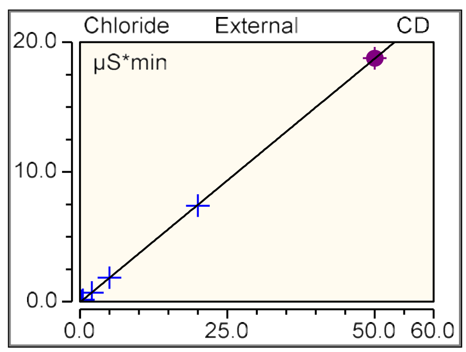
**Calibration Summary**

| Peak Name | Eval.Type | Cal.Type | Points | Offset (C0) | Slope (C1) | Curve (C2) | Coeff.Det. % |
|---|---|---|---|---|---|---|---|
| Fluoride | Area | in, WithOffse | 6.000 | -0.011 | 0.527 | 0.000 | 99.9961 |
| Chloride | Area | in, WithOffse | 6.000 | -0.044 | 0.376 | 0.000 | 99.9981 |
| Bromide | Area | in, WithOffse | 5.000 | -0.003 | 0.117 | 0.000 | 99.9018 |
| Sulfate | Area | in, WithOffse | 6.000 | -0.057 | 0.284 | 0.000 | 99.9995 |
| Nitrate | Area | in, WithOffse | 5.000 | -0.023 | 0.902 | 0.000 | 99.9502 |
| | | AVERAGE: | | -0.0278 | 0.4411 | 0.0000 | 99.9691 |

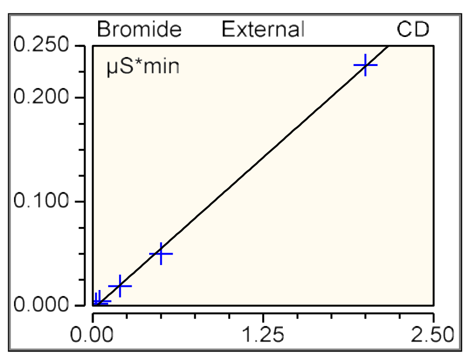
| Injection Name | Ret.Time min CD | Area µS*min CD | Height µS CD | Amount CD |
|---|---|---|---|---|
| | Fluoride | Fluoride | Fluoride | Fluoride |
| STD 0.5 | 2.297 | 0.0085 | 0.102 | 0.038 |
| STD 1.0 | 2.297 | 0.0176 | 0.217 | 0.055 |
| STD 2.0 | 2.300 | 0.0855 | 1.128 | 0.184 |
| STD 3.0 | 2.300 | 0.2460 | 3.225 | 0.489 |
| STD 4.0 | 2.307 | 1.0487 | 12.466 | 2.013 |
| STD 5.0 | 2.310 | 2.6198 | 27.875 | 4.996 |
| **Average** | 2.302 | | | |
| **Rel. Std. Dev.** | 0.238 % | | | |



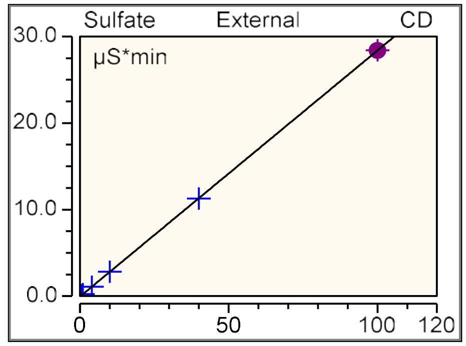

| Injection Name | Ret.Time min CD | Area µS*min CD | Height µS CD | Amount CD |
|---|---|---|---|---|
| | Chloride | Chloride | Chloride | Chloride |
| STD 0.5 | 3.467 | 0.0696 | 0.701 | 0.303 |
| STD 1.0 | 3.467 | 0.1481 | 1.545 | 0.512 |
| STD 2.0 | 3.467 | 0.7060 | 7.380 | 1.997 |
| STD 3.0 | 3.467 | 1.8503 | 19.128 | 5.044 |
| STD 4.0 | 3.460 | 7.4045 | 74.364 | 19.831 |
| STD 5.0 | 3.453 | 18.7597 | 183.384 | 50.063 |
| **Average** | 3.463 | | | |
| **Rel. Std. Dev.** | 0.161 % | | | |



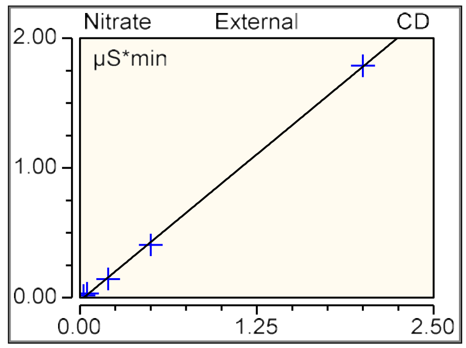

| Injection Name | Ret.Time min CD | Area µS*min CD | Height µS CD | Amount CD |
|---|---|---|---|---|
| | Bromide | Bromide | Bromide | Bromide |
| STD 0.5 | 6.017 | 0.0020 | 0.013 | 0.046 |
| STD 1.0 | 6.013 | 0.0045 | 0.028 | 0.068 |
| STD 2.0 | 6.013 | 0.0190 | 0.121 | 0.192 |
| STD 3.0 | 6.007 | 0.0501 | 0.327 | 0.458 |
| STD 4.0 | 5.987 | 0.2315 | 1.623 | 2.011 |
| STD 5.0 | 5.940 | 0.6417 | 4.628 | 5.519 |
| **Average** | 5.996 | | | |
| **Rel. Std. Dev.** | 0.493 % | | | |



| Injection Name | Ret.Time min CD | Area µS*min CD | Height µS CD | Amount CD |
|---|---|---|---|---|
| | Sulfate | Sulfate | Sulfate | Sulfate |
| STD 0.5 | 6.793 | 0.0999 | 0.535 | 0.552 |
| STD 1.0 | 6.790 | 0.2183 | 1.201 | 0.968 |
| STD 2.0 | 6.763 | 1.0676 | 5.791 | 3.954 |
| STD 3.0 | 6.720 | 2.8210 | 14.357 | 10.118 |
| STD 4.0 | 6.570 | 11.2822 | 44.815 | 39.865 |
| STD 5.0 | 6.387 | 28.3999 | 85.718 | 100.044 |
| **Average** | 6.671 | | | |
| **Rel. Std. Dev.** | 2.427 % | | | |



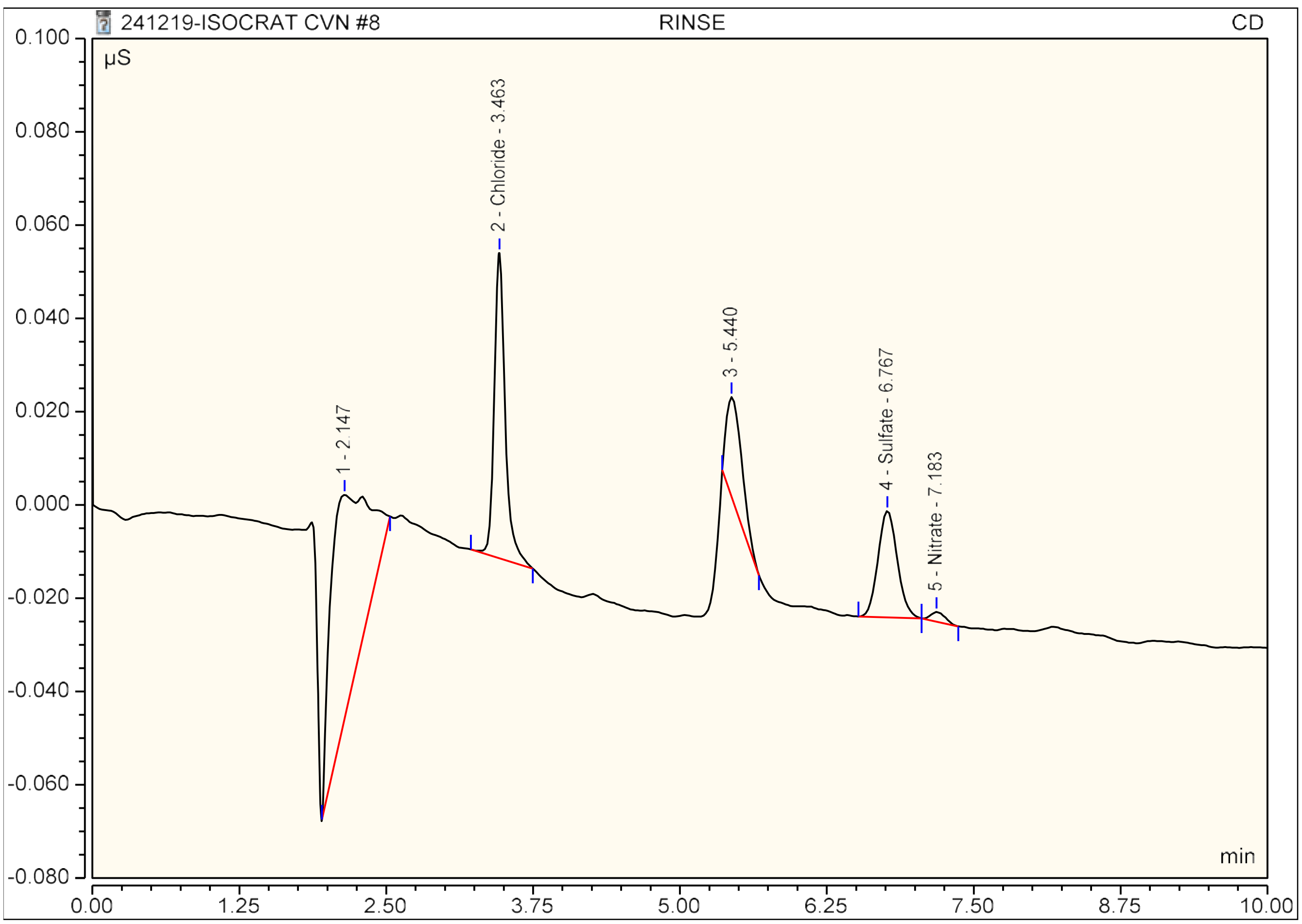

| Injection Name | Ret.Time min CD | Area µS*min CD | Height µS CD | Amount CD |
|---|---|---|---|---|
| | Nitrate | Nitrate | Nitrate | Nitrate |
| STD 0.5 | 7.230 | 0.0170 | 0.079 | 0.044 |
| STD 1.0 | 7.227 | 0.0338 | 0.159 | 0.063 |
| STD 2.0 | 7.217 | 0.1446 | 0.739 | 0.186 |
| STD 3.0 | 7.203 | 0.4063 | 2.120 | 0.476 |
| STD 4.0 | 7.150 | 1.7872 | 8.674 | 2.007 |
| STD 5.0 | 7.073 | 4.7799 | 20.222 | 5.325 |
| **Average** | 7.183 | | | |
| **Rel. Std. Dev.** | 0.853 % | | | |



## 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:* | **19-Dec-2024 / 07:41** | *Run Time:* | **10.00** |

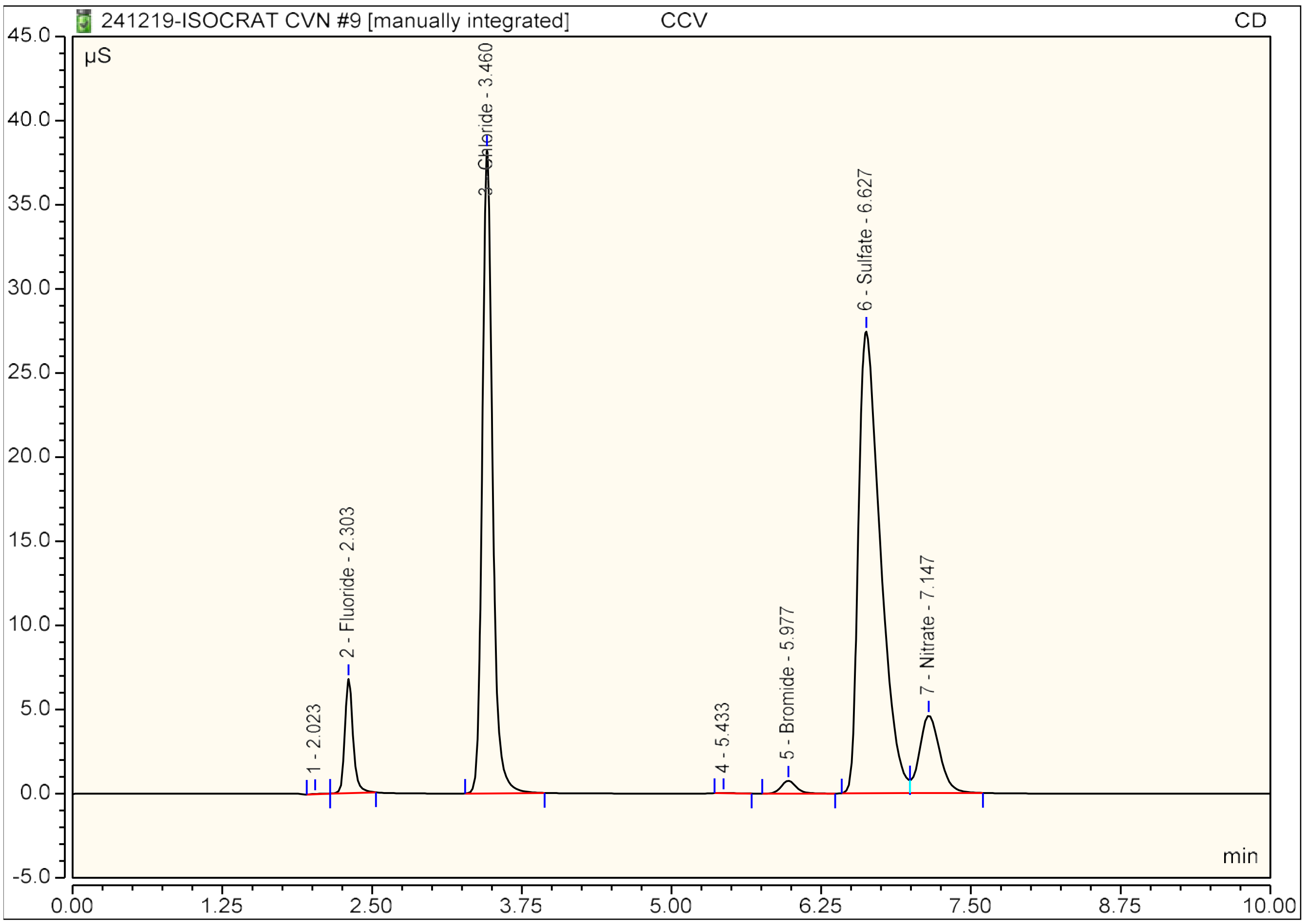
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 3.46 | **Chloride** | BMB | 0.007 | 0.065 | 0.1364 |
| 4 | 6.77 | **Sulfate** | BMB | 0.004 | 0.023 | 0.2157 |
| 5 | 7.18 | **Nitrate** | BMB | 0.000 | 0.002 | 0.0256 |
| | | **TOTAL:** | | 0.01 | 0.09 | 0.38 |



## 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:* | **19-Dec-2024 / 07:53** | *Run Time:* | **10.00** |

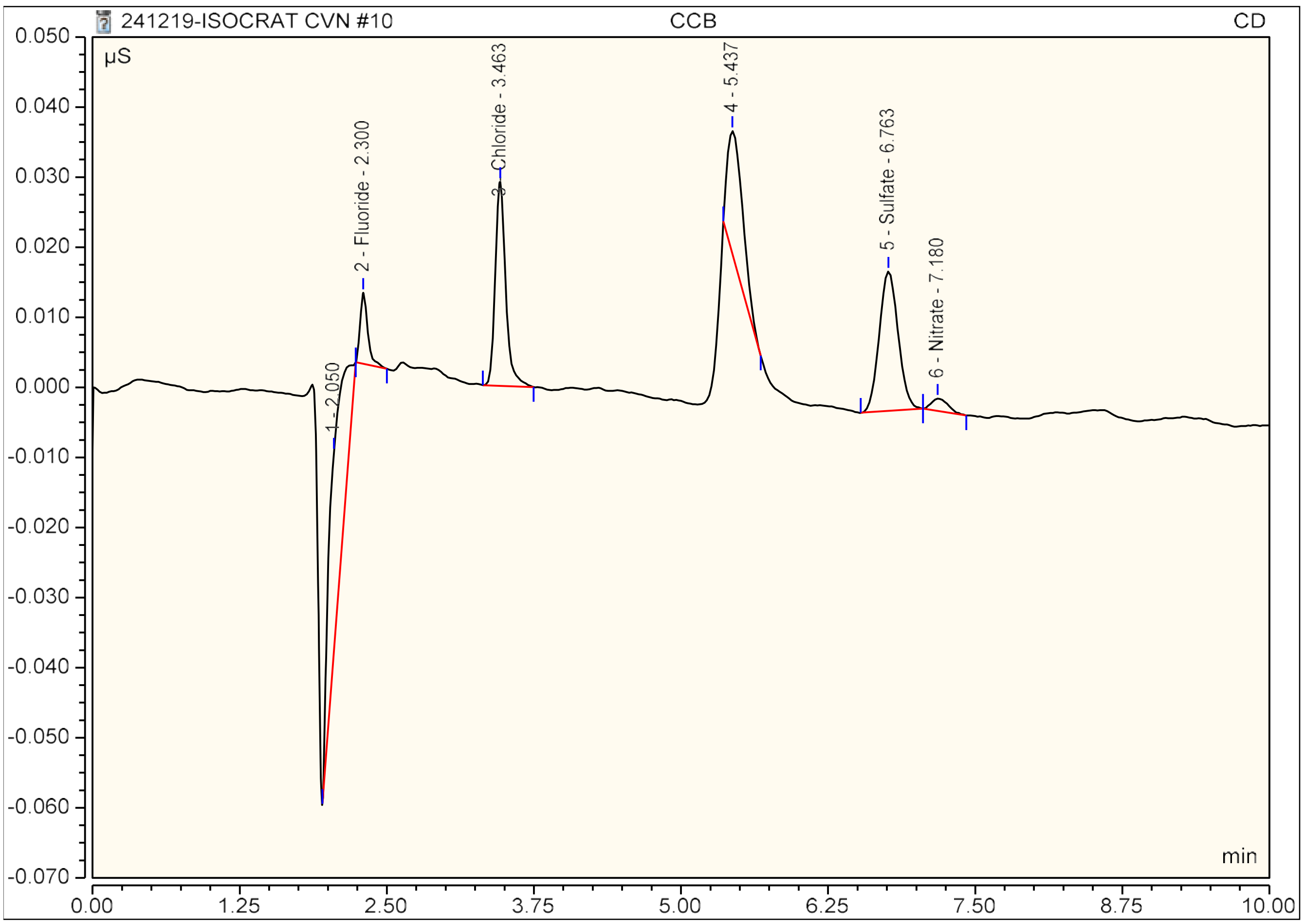
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.534 | 6.781 | 1.0349 |
| 3 | 3.46 | **Chloride** | BMB* | 3.840 | 38.234 | 10.3399 |
| 5 | 5.98 | **Bromide** | BMB | 0.112 | 0.764 | 0.9896 |
| 6 | 6.63 | **Sulfate** | BM * | 5.811 | 27.426 | 20.6302 |
| 7 | 7.15 | **Nitrate** | MB* | 0.901 | 4.604 | 1.0241 |
| | | **TOTAL:** | | 11.20 | 77.81 | 34.02 |



## 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:* | **19-Dec-2024 / 08:05** | *Run Time:* | **10.00** |

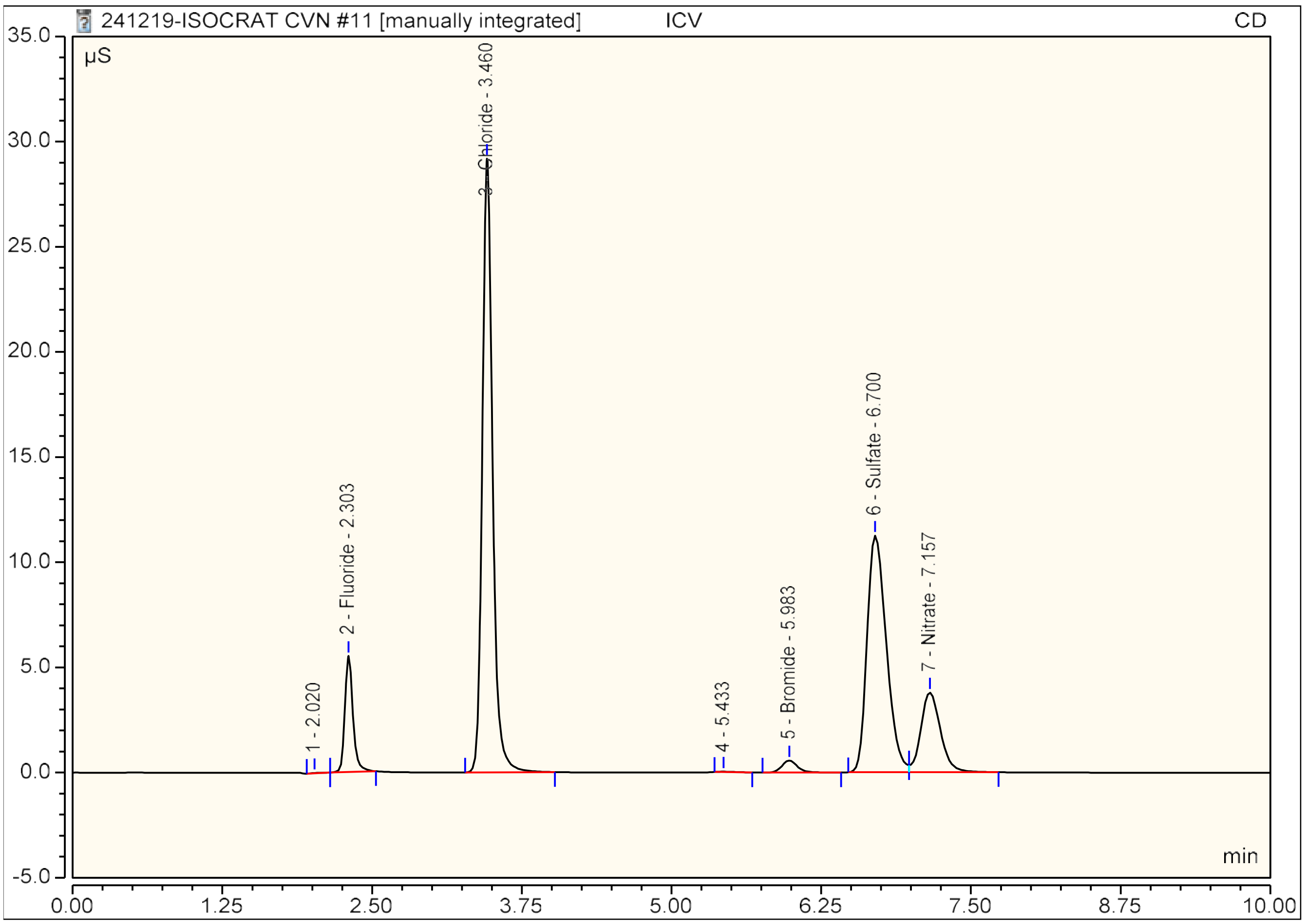
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.001 | 0.010 | 0.0231 |
| 3 | 3.46 | **Chloride** | BMB | 0.003 | 0.029 | 0.1256 |
| 5 | 6.76 | **Sulfate** | BMB | 0.004 | 0.020 | 0.2135 |
| 6 | 7.18 | **Nitrate** | BMB | 0.000 | 0.002 | 0.0256 |
| | | **TOTAL:** | | 0.01 | 0.06 | 0.39 |



## 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:* | **19-Dec-2024 / 08:17** | *Run Time:* | **10.00** |

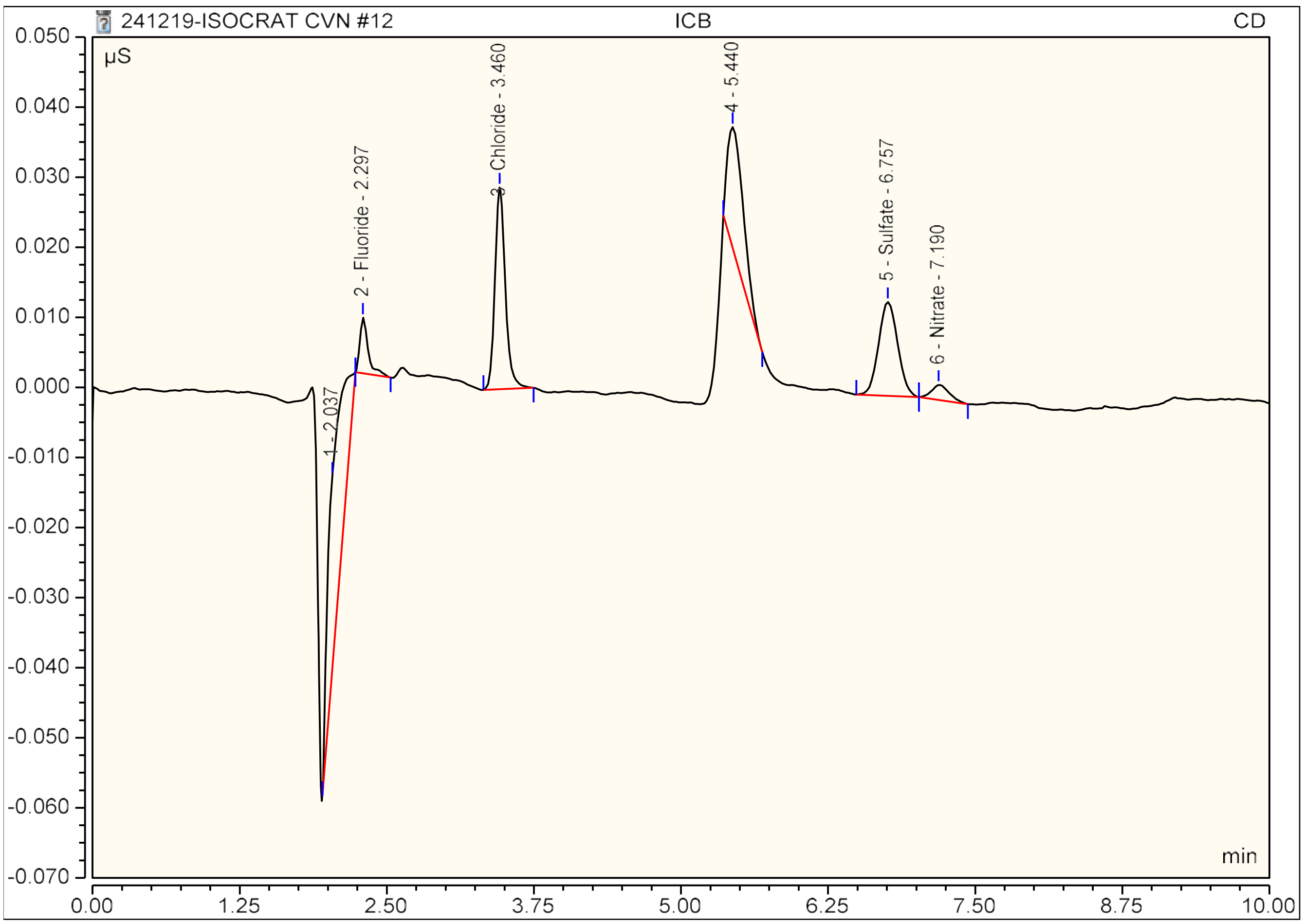
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.429 | 5.515 | 0.8362 |
| 3 | 3.46 | **Chloride** | BMB* | 2.916 | 29.178 | 7.8810 |
| 5 | 5.98 | **Bromide** | BMB | 0.086 | 0.572 | 0.7668 |
| 6 | 6.70 | **Sulfate** | BM * | 2.100 | 11.245 | 7.5837 |
| 7 | 7.16 | **Nitrate** | MB* | 0.720 | 3.790 | 0.8236 |
| | | **TOTAL:** | | 6.25 | 50.30 | 17.89 |



## 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:* | **19-Dec-2024 / 08:29** | *Run Time:* | **10.00** |

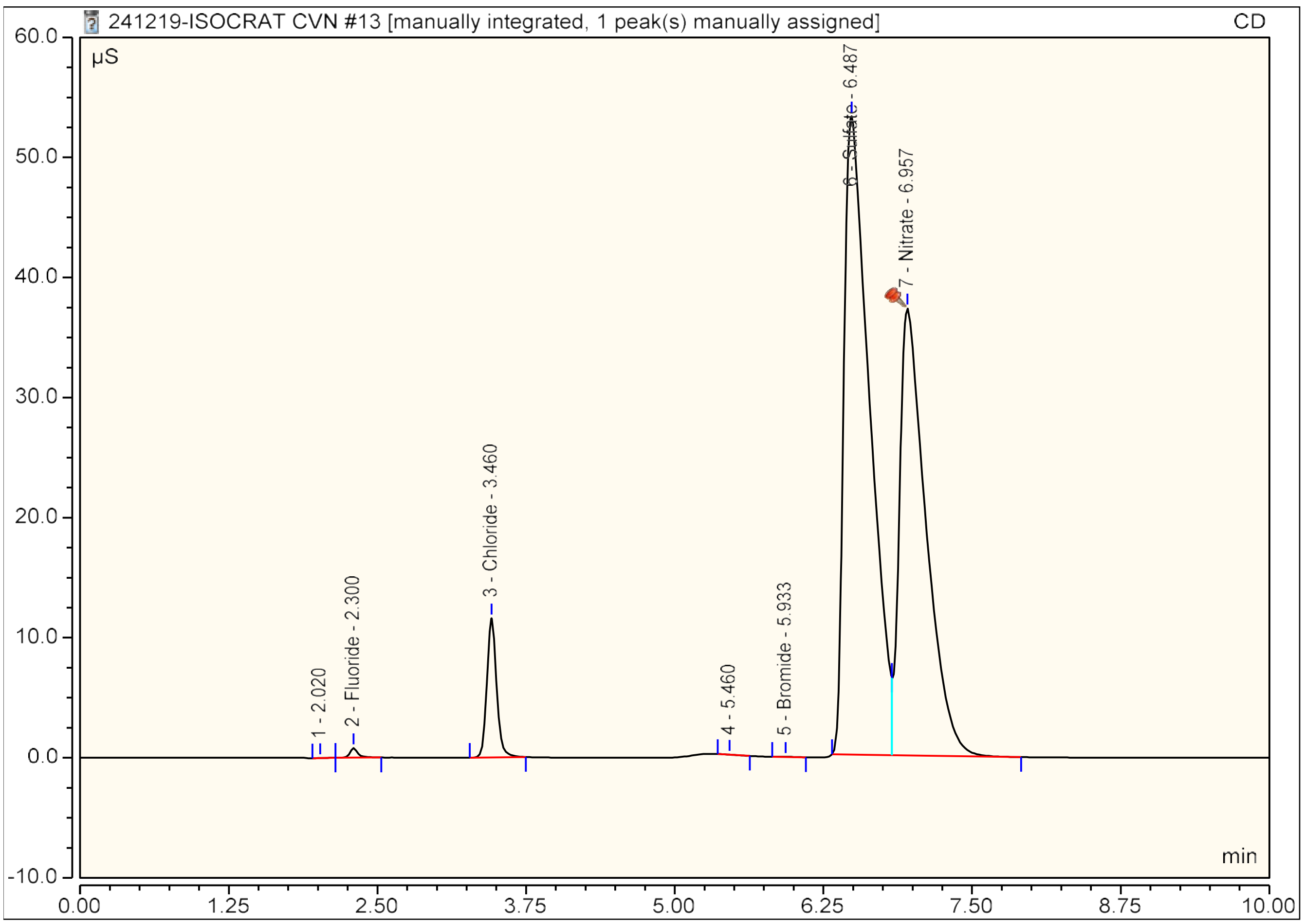
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.001 | 0.008 | 0.0229 |
| 3 | 3.46 | **Chloride** | BMB | 0.003 | 0.029 | 0.1254 |
| 5 | 6.76 | **Sulfate** | BMB | 0.003 | 0.013 | 0.2093 |
| 6 | 7.19 | **Nitrate** | BMB | 0.000 | 0.002 | 0.0257 |
| | | **TOTAL:** | | 0.01 | 0.05 | 0.38 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474615-15** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 08:55** | *Run Time:* | **10.00** |

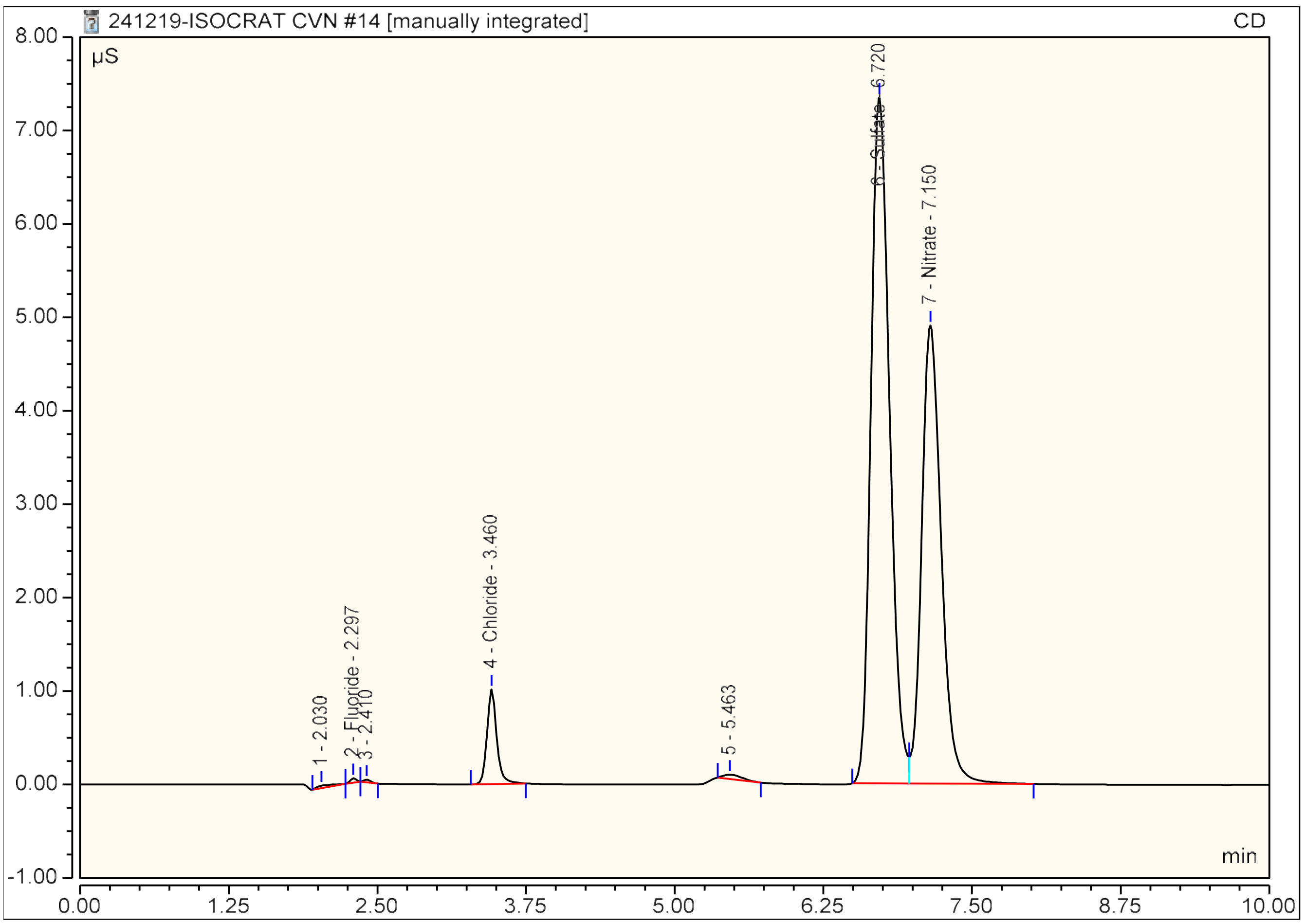
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.064 | 0.799 | 0.1428 |
| 3 | 3.46 | **Chloride** | BMB | 1.104 | 11.590 | 3.0581 |
| 5 | 5.93 | **Bromide** | BMB | 0.003 | 0.022 | 0.0537 |
| 6 | 6.49 | **Sulfate** | BM * | 13.300 | 53.162 | 46.9575 |
| 7 | 6.96 | **Nitrate** | MB*^ | 9.652 | 37.237 | 10.7273 |
| | | **TOTAL:** | | 24.12 | 102.81 | 60.94 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **XL2474615-15; 10X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 09:07** | *Run Time:* | **10.00** |

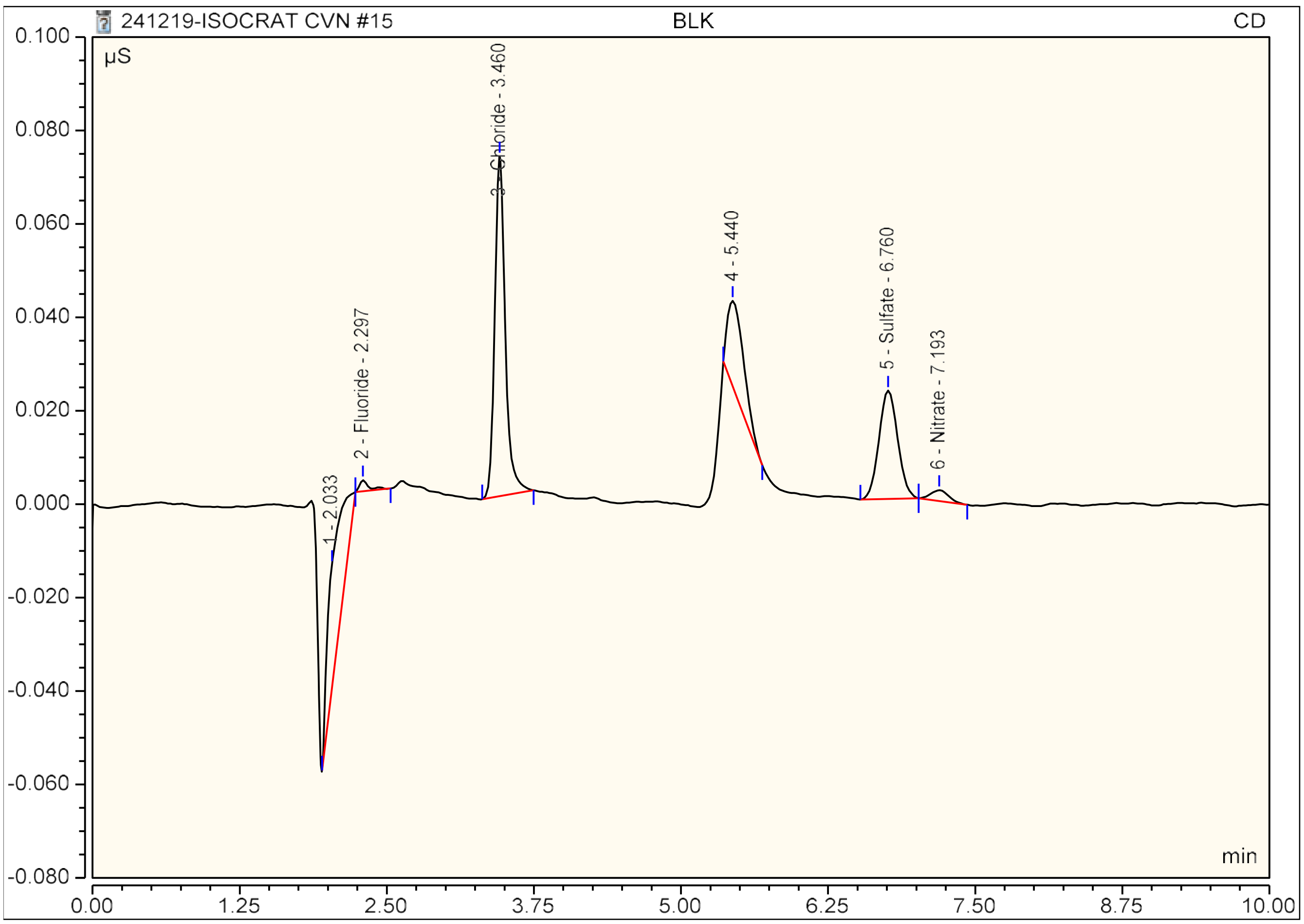
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.003 | 0.047 | 0.2690 |
| 4 | 3.46 | **Chloride** | BMB | 0.097 | 1.013 | 3.7584 |
| 6 | 6.72 | **Sulfate** | BM * | 1.336 | 7.339 | 48.9844 |
| 7 | 7.15 | **Nitrate** | MB* | 0.936 | 4.904 | 10.6328 |
| | | **TOTAL:** | | 2.37 | 13.30 | 63.64 |



## 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:* | **19-Dec-2024 / 09:19** | *Run Time:* | **10.00** |

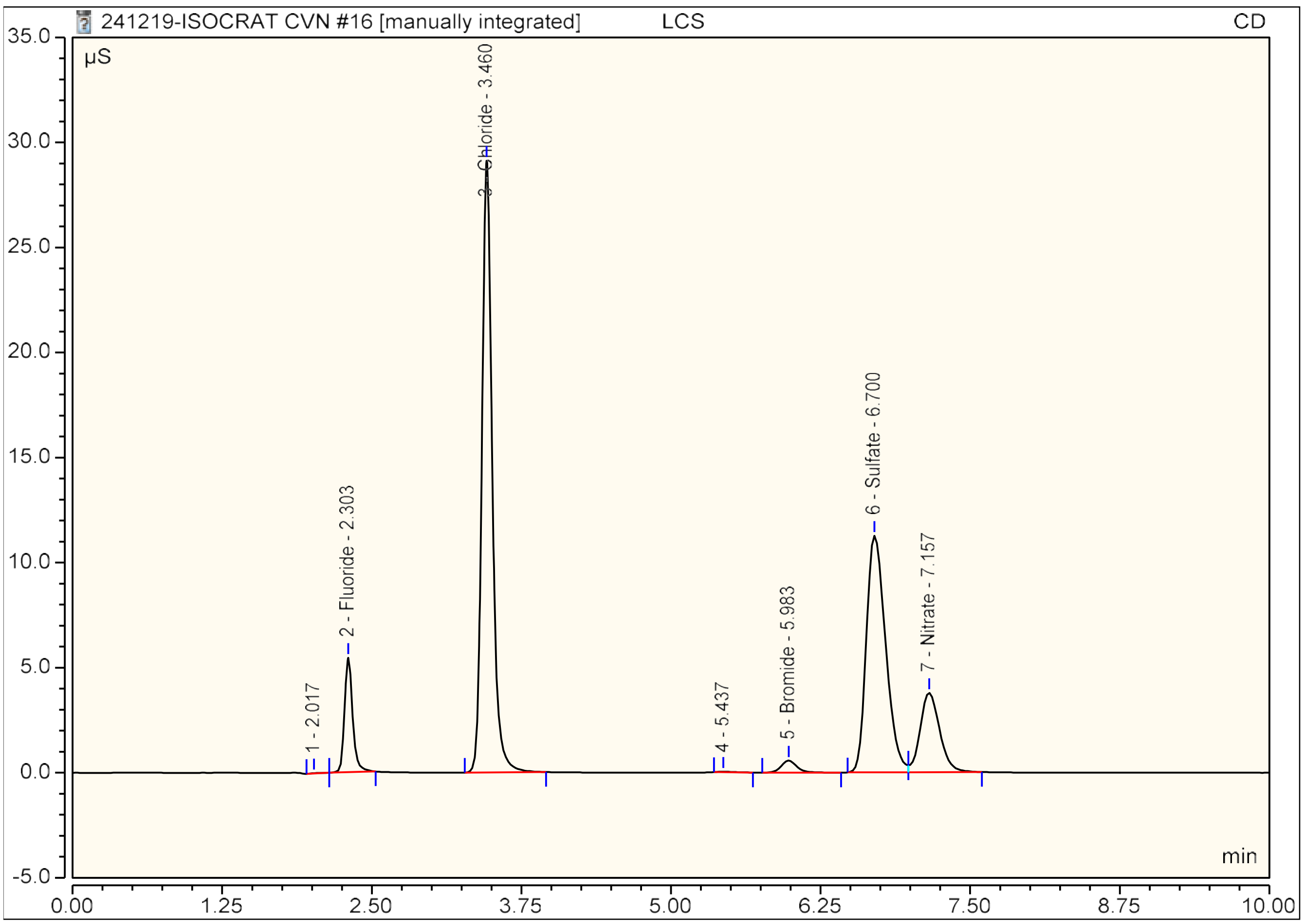
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.000 | 0.002 | 0.0220 |
| 3 | 3.46 | **Chloride** | BMB | 0.007 | 0.073 | 0.1375 |
| 5 | 6.76 | **Sulfate** | BMB | 0.004 | 0.023 | 0.2155 |
| 6 | 7.19 | **Nitrate** | BMB | 0.000 | 0.002 | 0.0257 |
| | | **TOTAL:** | | 0.01 | 0.10 | 0.40 |



## 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:* | **19-Dec-2024 / 09:31** | *Run Time:* | **10.00** |

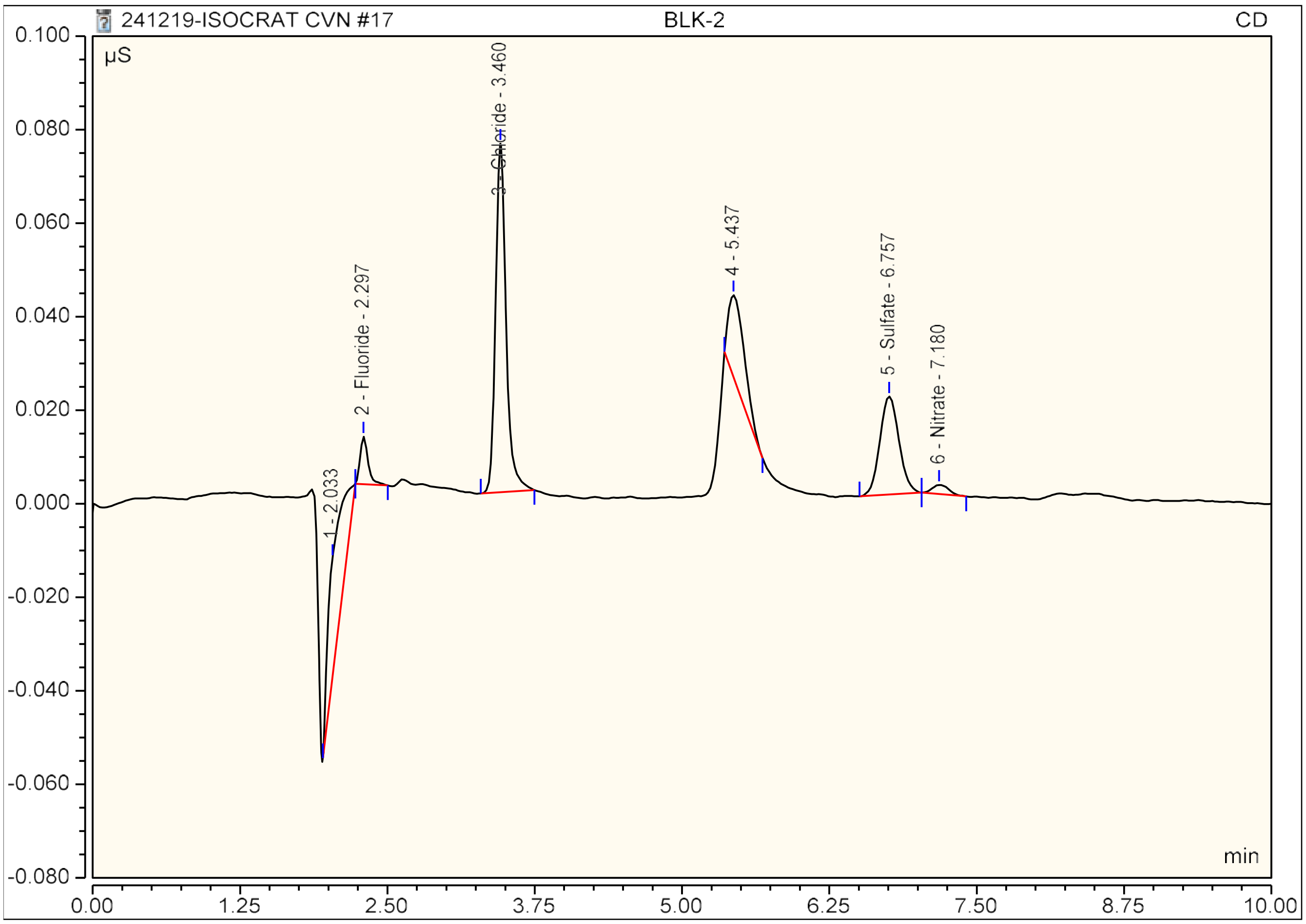
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.426 | 5.446 | 0.8299 |
| 3 | 3.46 | **Chloride** | BMB* | 2.915 | 29.115 | 7.8787 |
| 5 | 5.98 | **Bromide** | BMB | 0.086 | 0.570 | 0.7656 |
| 6 | 6.70 | **Sulfate** | BM * | 2.104 | 11.261 | 7.5969 |
| 7 | 7.16 | **Nitrate** | MB* | 0.711 | 3.772 | 0.8136 |
| | | **TOTAL:** | | 6.24 | 50.16 | 17.88 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **BLK-2** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 09:43** | *Run Time:* | **10.00** |

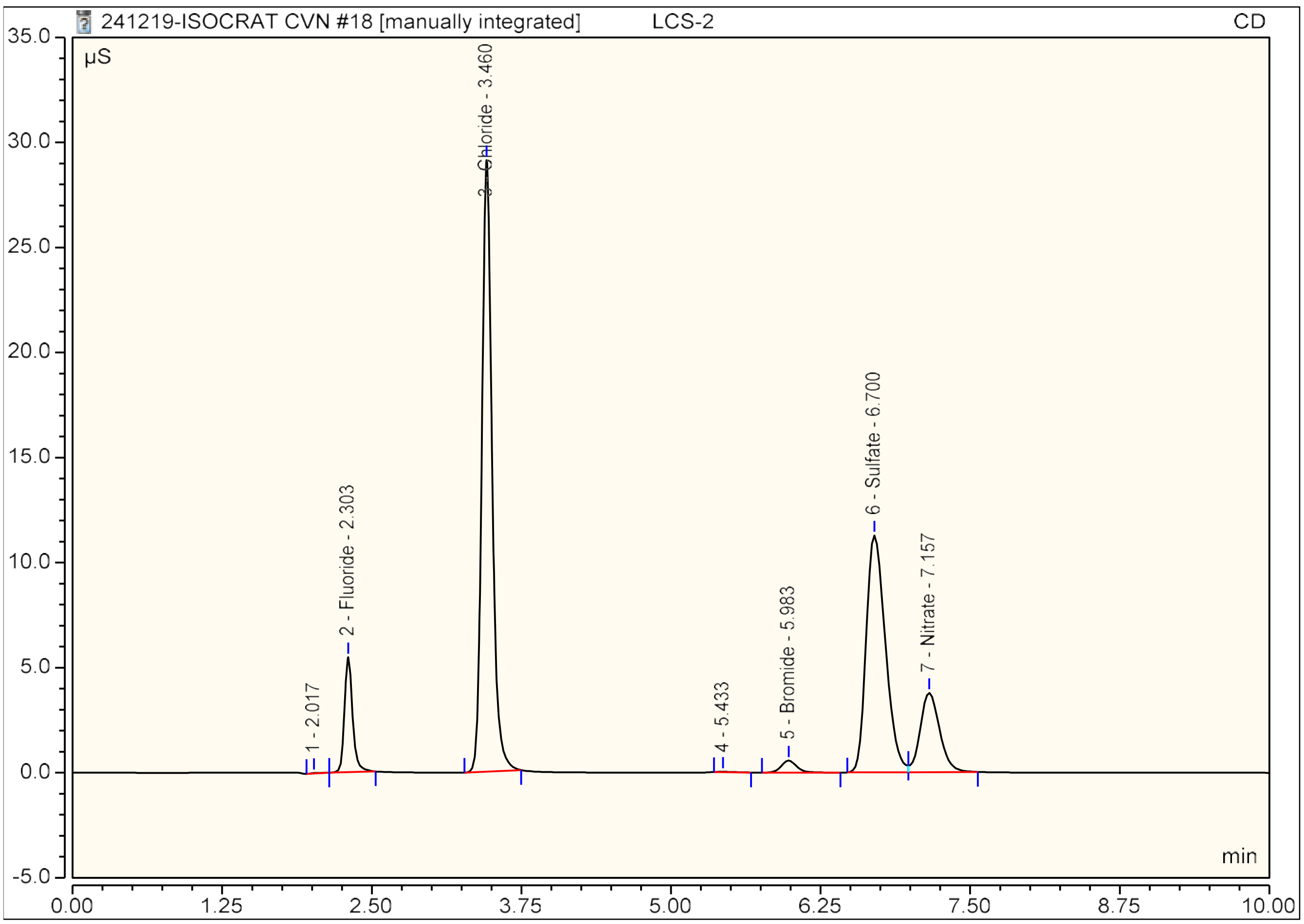
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.001 | 0.010 | 0.0232 |
| 3 | 3.46 | **Chloride** | BMB | 0.008 | 0.075 | 0.1380 |
| 5 | 6.76 | **Sulfate** | BMB | 0.004 | 0.021 | 0.2143 |
| 6 | 7.18 | **Nitrate** | BMB | 0.000 | 0.002 | 0.0256 |
| | | **TOTAL:** | | 0.01 | 0.11 | 0.40 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **LCS-2** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 09:55** | *Run Time:* | **10.00** |

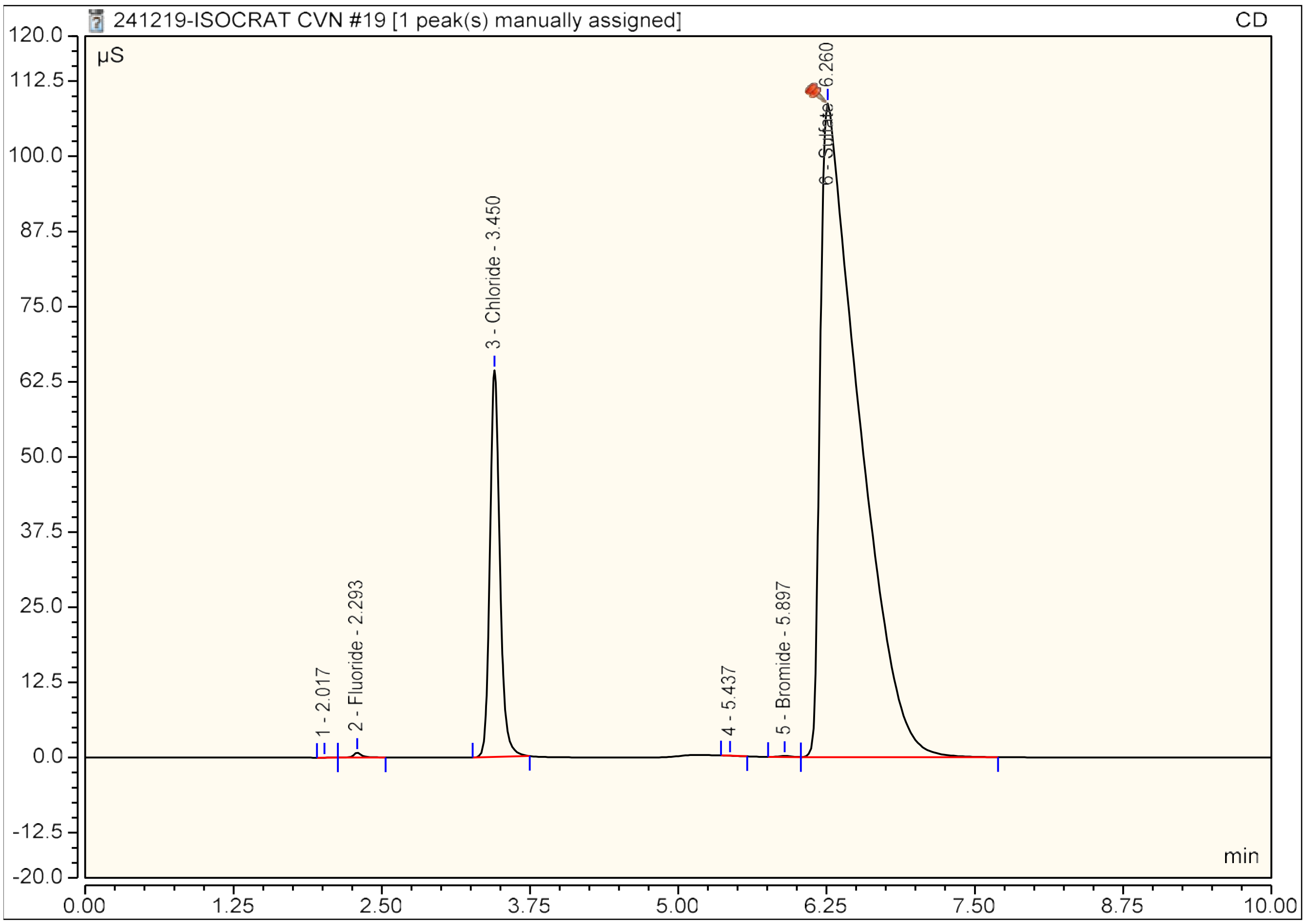
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.428 | 5.468 | 0.8343 |
| 3 | 3.46 | **Chloride** | BMB | 2.882 | 29.097 | 7.7916 |
| 5 | 5.98 | **Bromide** | BMB | 0.086 | 0.571 | 0.7658 |
| 6 | 6.70 | **Sulfate** | BM * | 2.103 | 11.278 | 7.5955 |
| 7 | 7.16 | **Nitrate** | MB* | 0.707 | 3.767 | 0.8091 |
| | | **TOTAL:** | | 6.21 | 50.18 | 17.80 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474615-03 BR CL NO3** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 10:07** | *Run Time:* | **10.00** |

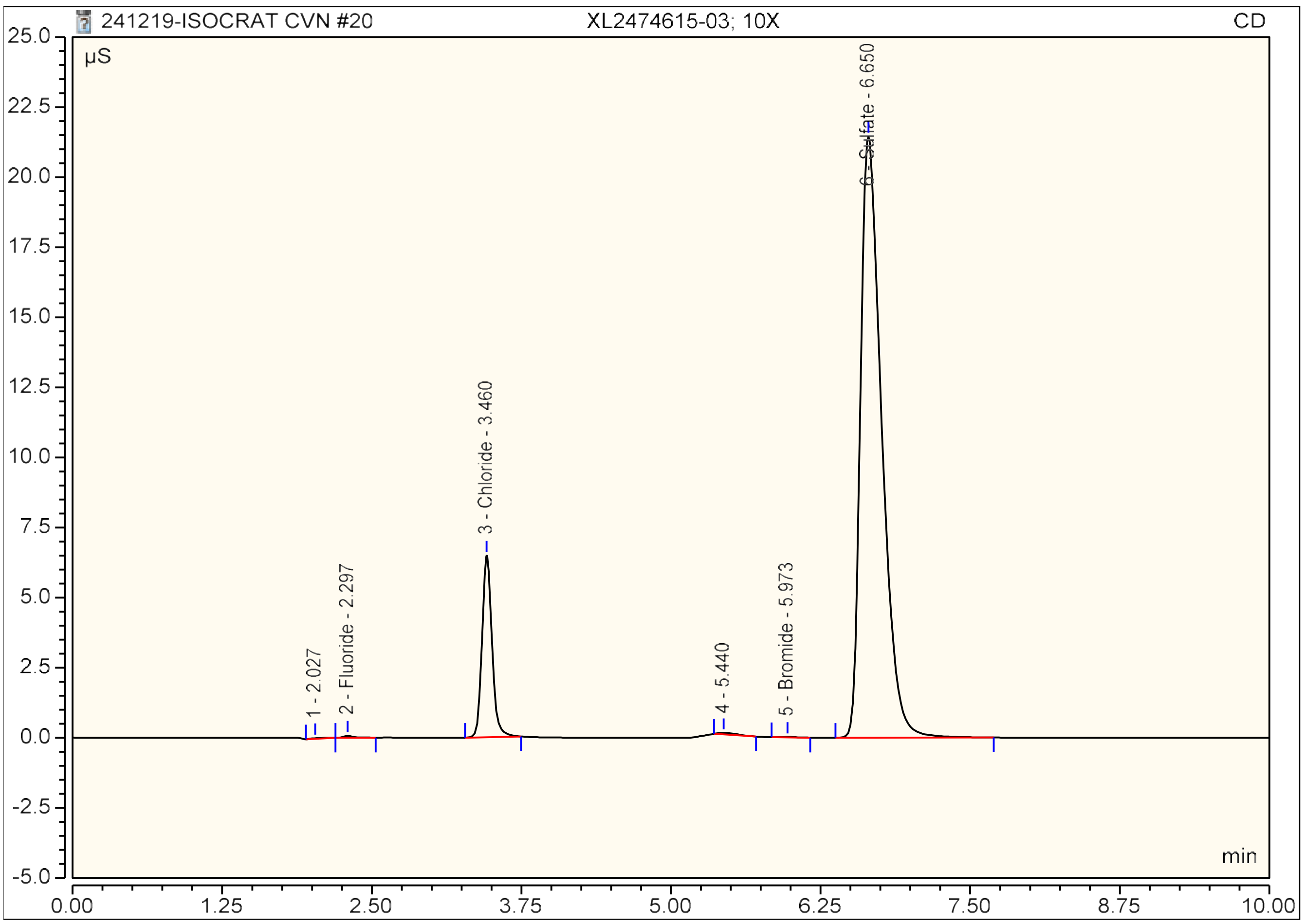
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.29 | **Fluoride** | BMB | 0.065 | 0.804 | 0.1457 |
| 3 | 3.45 | **Chloride** | BMB | 6.290 | 64.307 | 16.8638 |
| 5 | 5.90 | **Bromide** | BMB | 0.020 | 0.161 | 0.2034 |
| 6 | 6.26 | **Sulfate** | BMB^ | 41.209 | 108.686 | 145.0782 |
| | | **TOTAL:** | | 47.59 | 173.96 | 162.29 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **XL2474615-03; 10X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 10:19** | *Run Time:* | **10.00** |

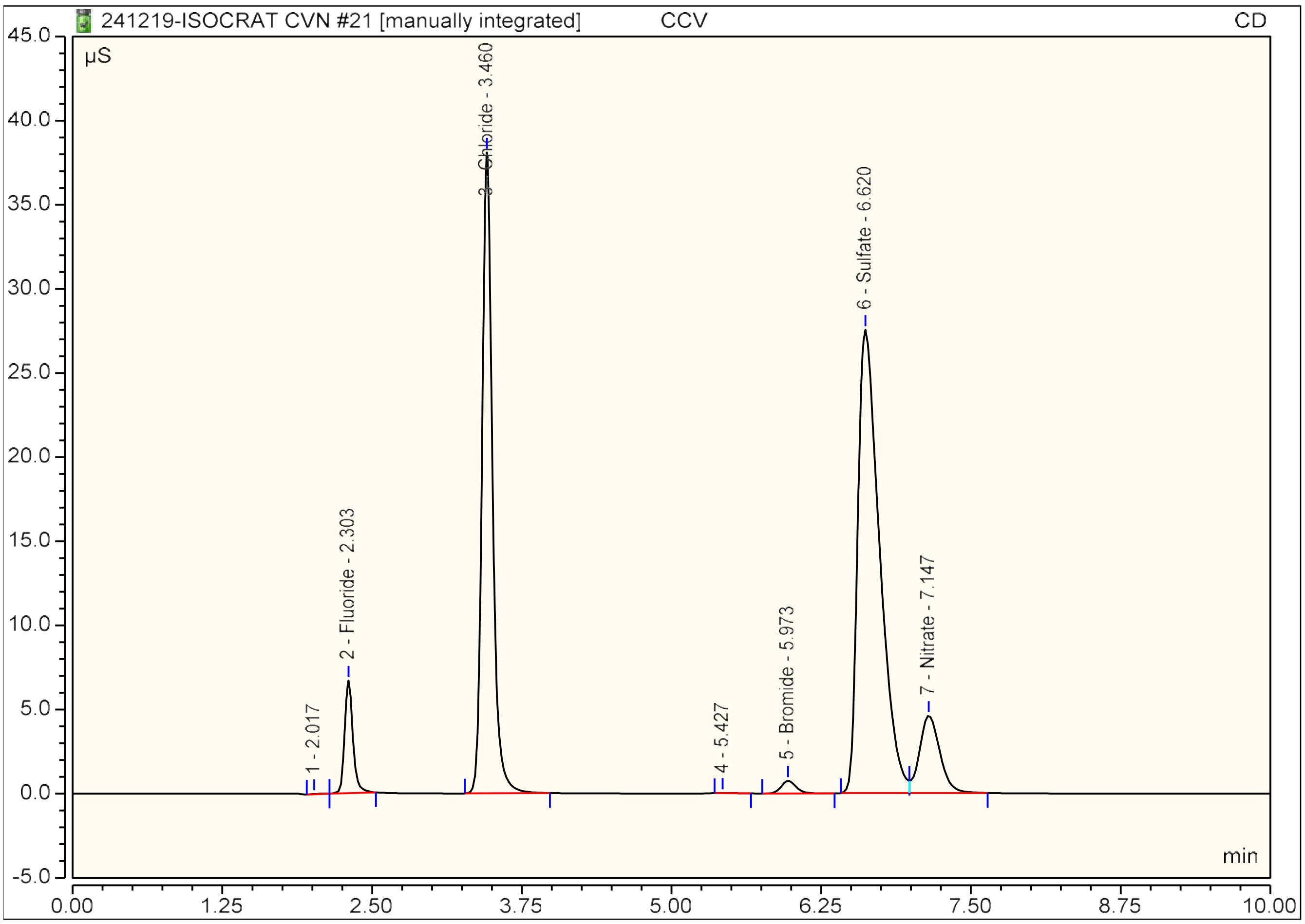
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.006 | 0.070 | 0.3281 |
| 3 | 3.46 | **Chloride** | BMB | 0.624 | 6.483 | 17.7824 |
| 5 | 5.97 | **Bromide** | BMB | 0.002 | 0.016 | 0.4806 |
| 6 | 6.65 | **Sulfate** | BMB | 4.399 | 21.455 | 156.6610 |
| **TOTAL:** | | | | 5.03 | 28.02 | 175.25 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **CCV** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Check Standard** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 10:31** | *Run Time:* | **10.00** |

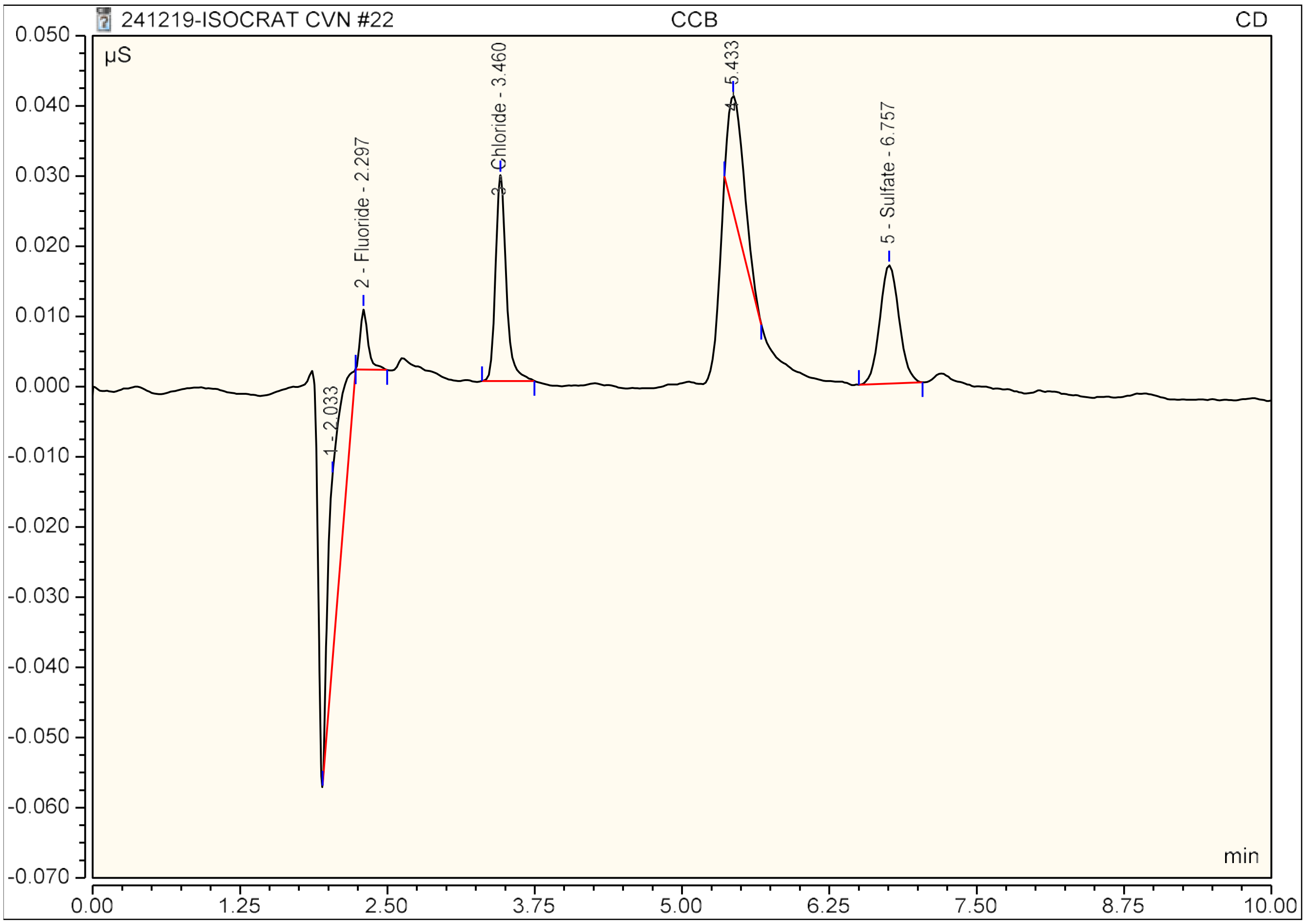
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.530 | 6.687 | 1.0277 |
| 3 | 3.46 | **Chloride** | BMB* | 3.852 | 38.095 | 10.3738 |
| 5 | 5.97 | **Bromide** | BMB | 0.111 | 0.754 | 0.9757 |
| 6 | 6.62 | **Sulfate** | BM * | 5.820 | 27.529 | 20.6606 |
| 7 | 7.15 | **Nitrate** | MB* | 0.904 | 4.595 | 1.0279 |
| | | **TOTAL:** | | 11.22 | 77.66 | 34.07 |



## 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:* | **19-Dec-2024 / 10:44** | *Run Time:* | **10.00** |

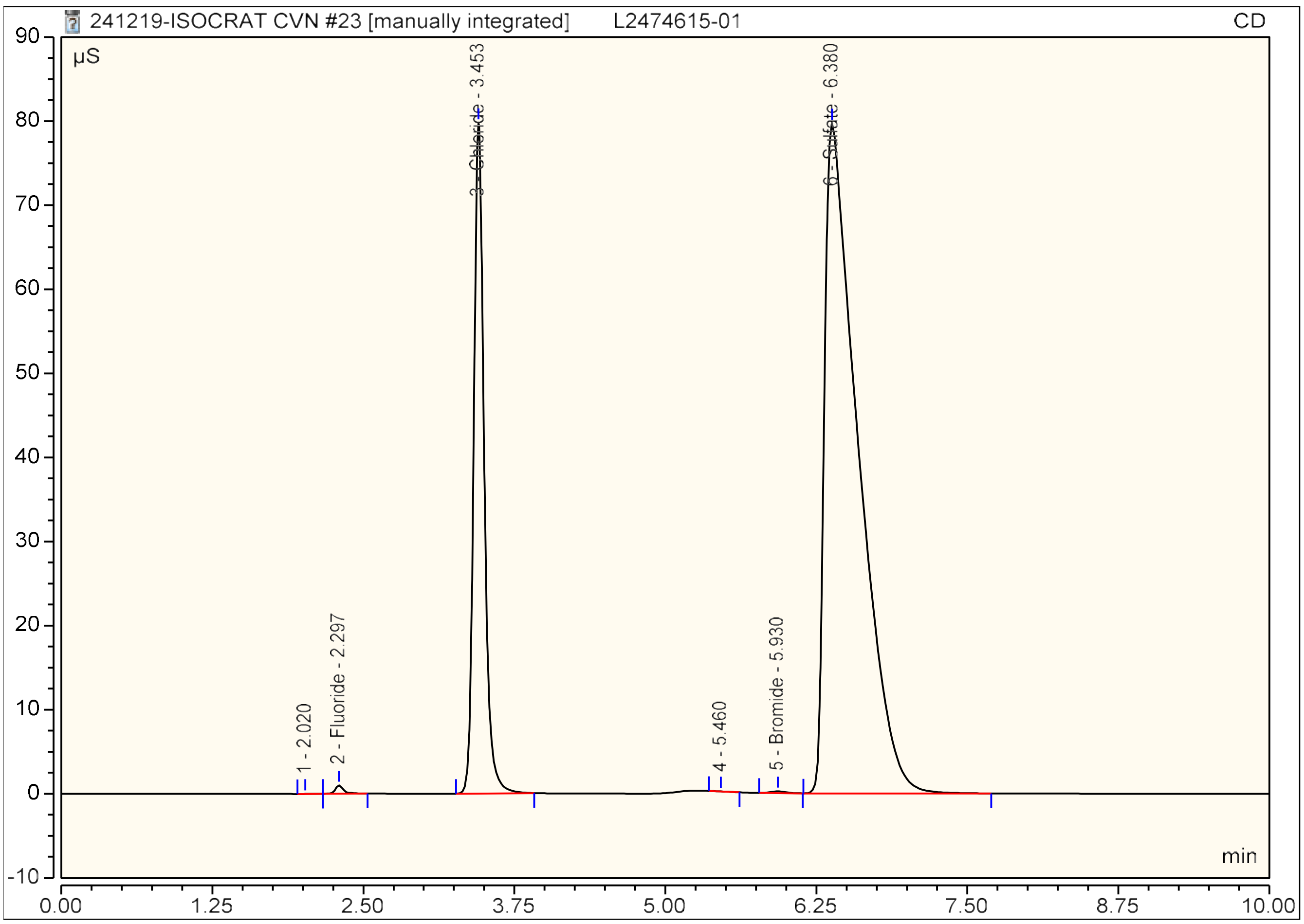
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.001 | 0.009 | 0.0229 |
| 3 | 3.46 | **Chloride** | BMB | 0.003 | 0.029 | 0.1258 |
| 5 | 6.76 | **Sulfate** | BMB | 0.003 | 0.017 | 0.2117 |
| | | **TOTAL:** | | 0.01 | 0.05 | 0.36 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474615-01** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 10:56** | *Run Time:* | **10.00** |

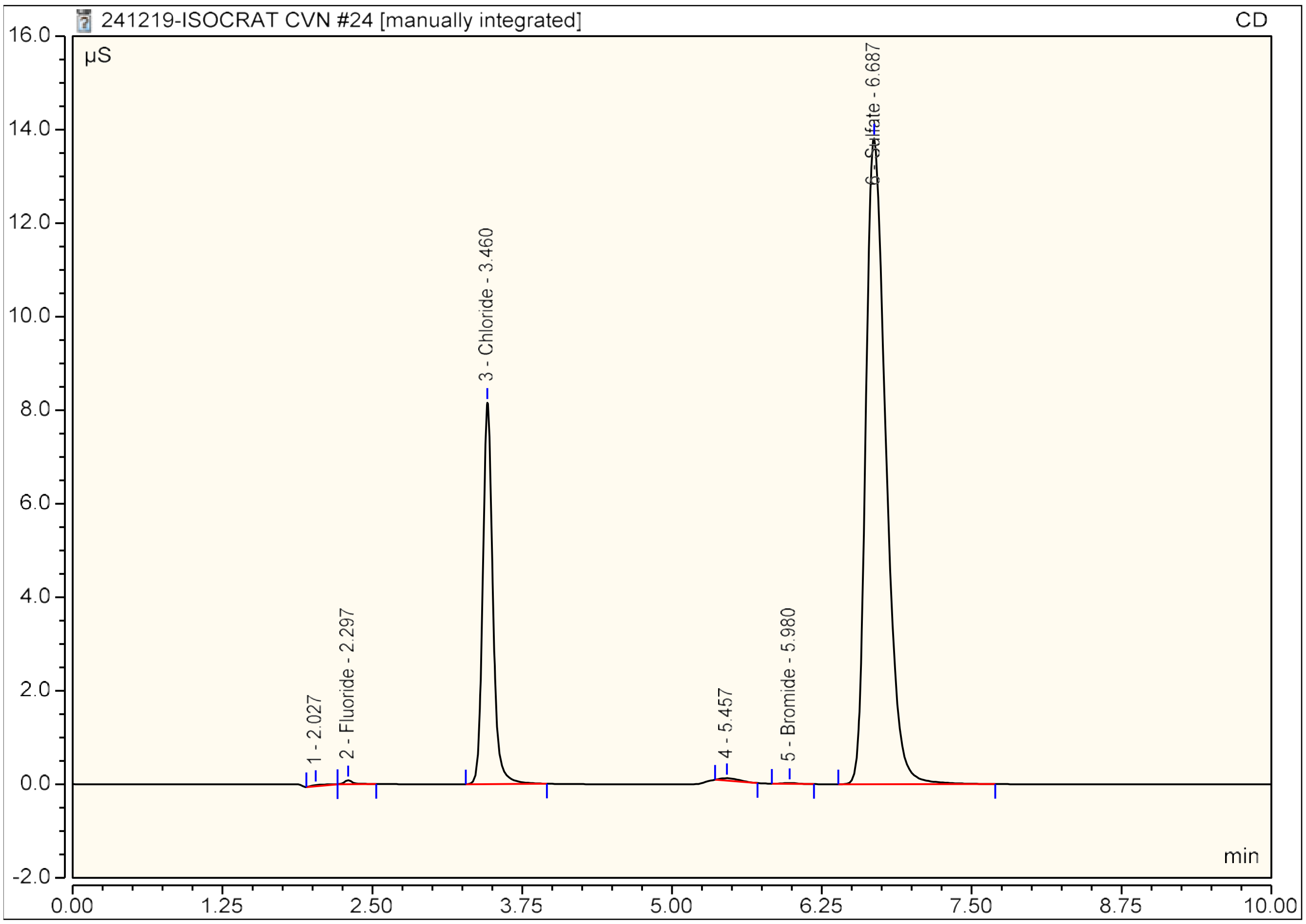
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.079 | 0.987 | 0.1713 |
| 3 | 3.45 | **Chloride** | BMB* | 7.948 | 79.745 | 21.2783 |
| 5 | 5.93 | **Bromide** | BMB | 0.028 | 0.206 | 0.2723 |
| 6 | 6.38 | **Sulfate** | BMB | 25.645 | 79.667 | 90.3599 |
| | | **TOTAL:** | | 33.70 | 160.60 | 112.08 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **XL2474615-01; 10X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 11:08** | *Run Time:* | **10.00** |

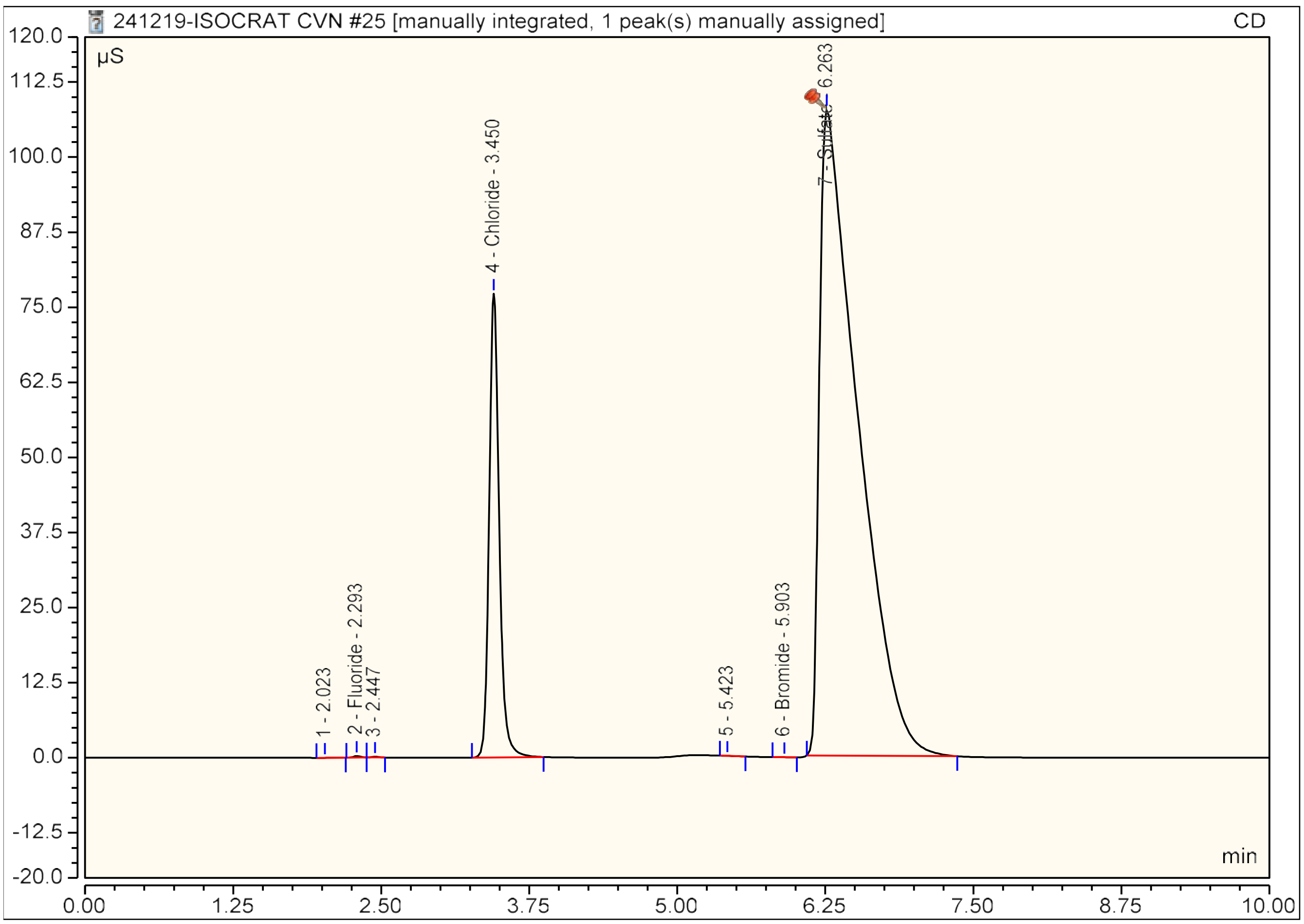
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.007 | 0.082 | 0.3490 |
| 3 | 3.46 | **Chloride** | BMB* | 0.798 | 8.156 | 22.4255 |
| 5 | 5.98 | **Bromide** | BMB | 0.003 | 0.019 | 0.5276 |
| 6 | 6.69 | **Sulfate** | BMB | 2.676 | 13.811 | 96.0736 |
| | | **TOTAL:** | | 3.48 | 22.07 | 119.38 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474615-17** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 11:20** | *Run Time:* | **10.00** |

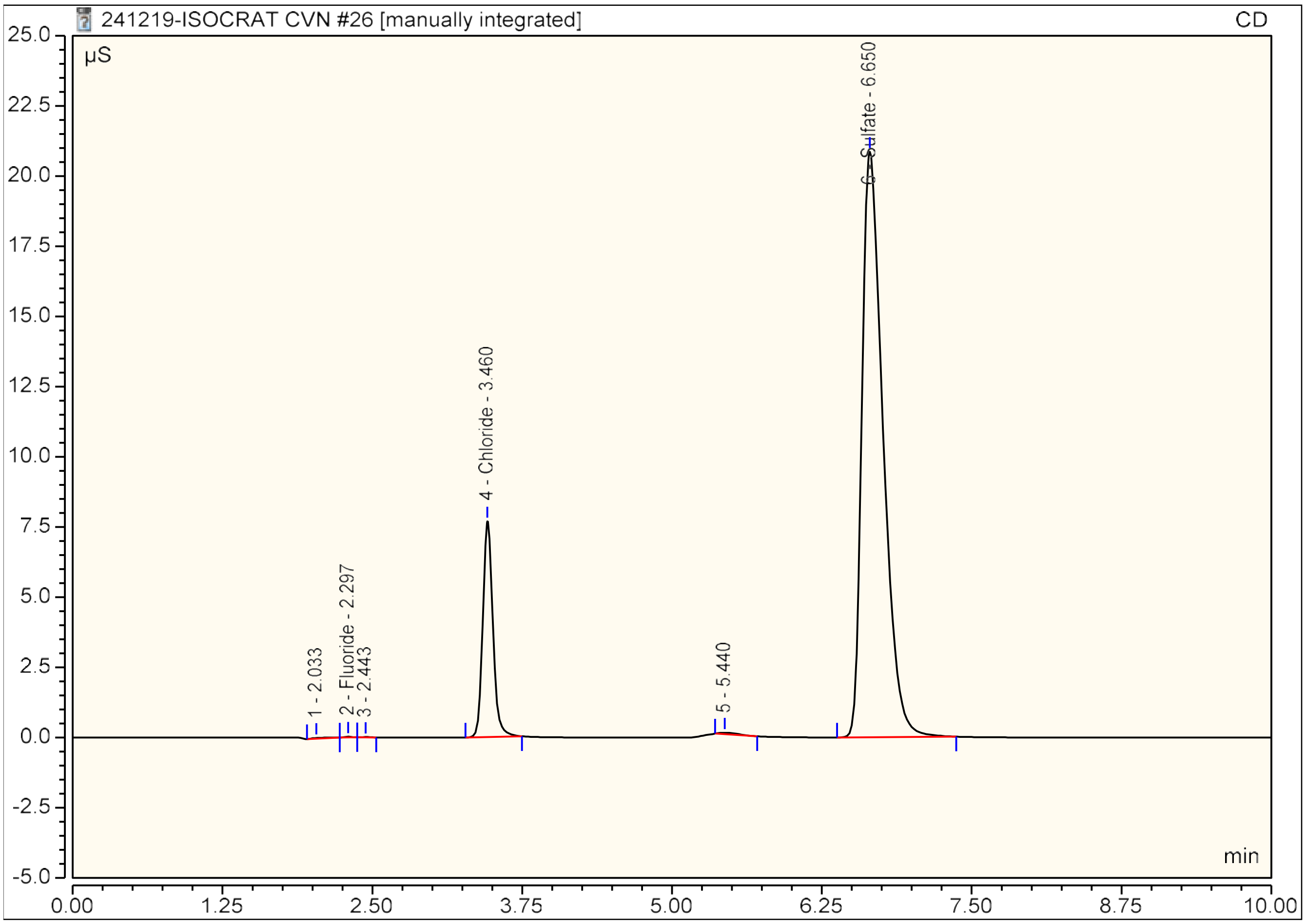
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.29 | **Fluoride** | BMB | 0.018 | 0.265 | 0.0554 |
| 4 | 3.45 | **Chloride** | BMB* | 7.652 | 77.196 | 20.4900 |
| 6 | 5.90 | **Bromide** | BMB | 0.001 | 0.010 | 0.0382 |
| 7 | 6.26 | **Sulfate** | BMB*^ | 40.336 | 107.599 | 142.0075 |
| | | **TOTAL:** | | 48.01 | 185.07 | 162.59 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **XL2474615-17; 10X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 11:32** | *Run Time:* | **10.00** |

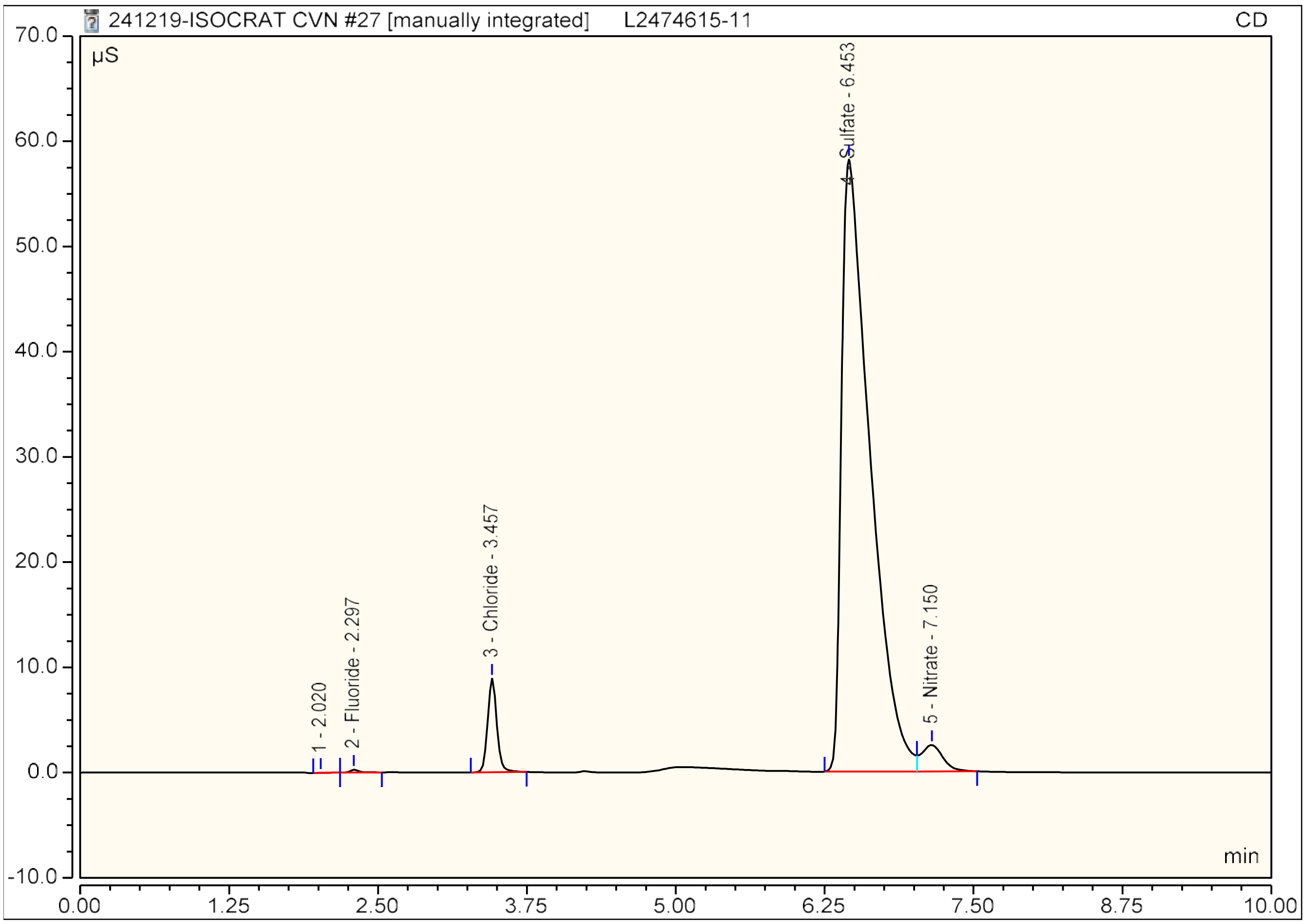
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.002 | 0.025 | 0.2472 |
| 4 | 3.46 | **Chloride** | BMB | 0.747 | 7.682 | 21.0547 |
| 6 | 6.65 | **Sulfate** | BMB* | 4.250 | 20.852 | 151.4089 |
| | | **TOTAL:** | | 5.00 | 28.56 | 172.71 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474615-11** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 11:54** | *Run Time:* | **10.00** |

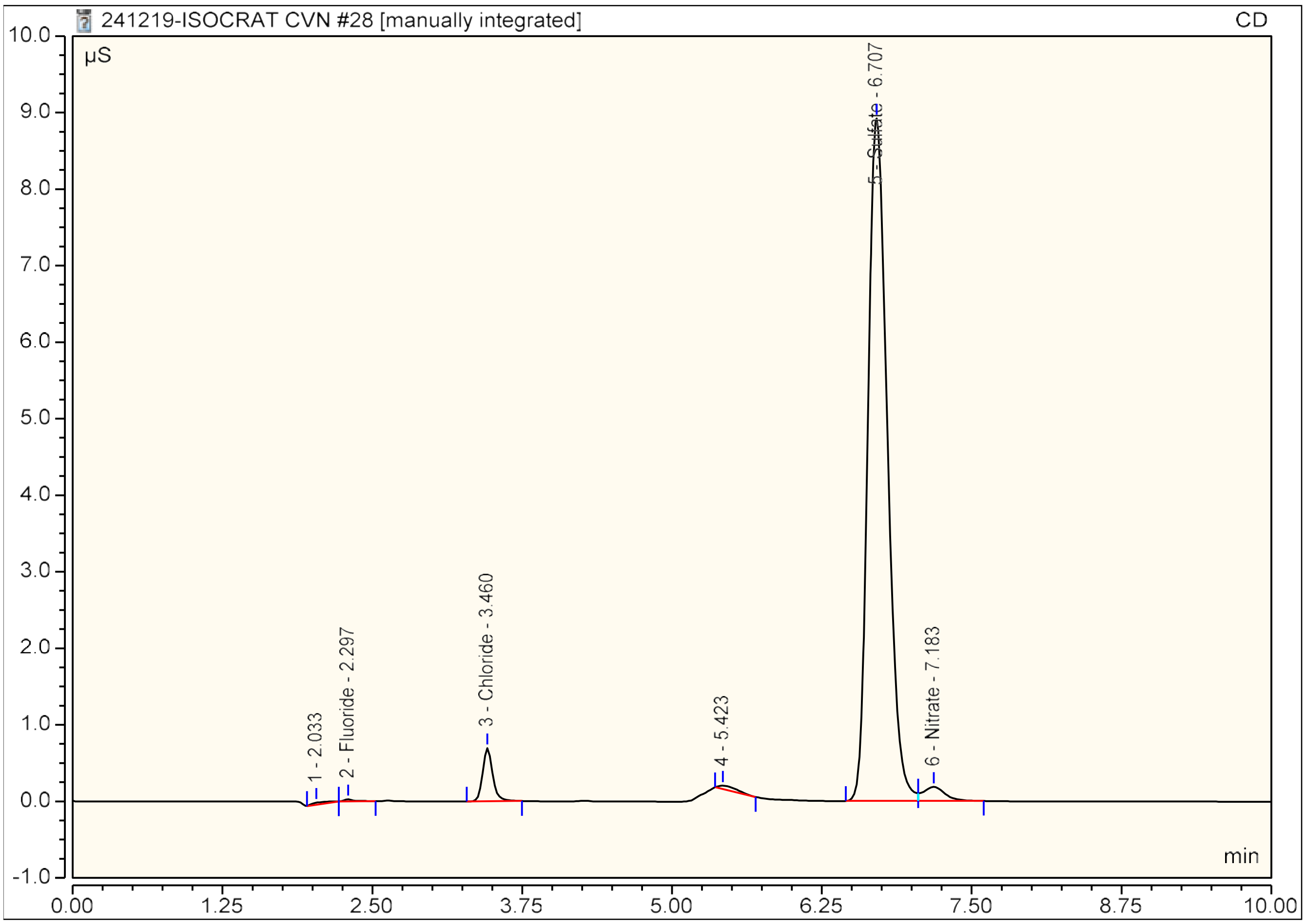
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.022 | 0.263 | 0.0641 |
| 3 | 3.46 | **Chloride** | BMB | 0.807 | 8.897 | 2.2661 |
| 4 | 6.45 | **Sulfate** | BM * | 16.149 | 58.166 | 56.9730 |
| 5 | 7.15 | **Nitrate** | MB* | 0.528 | 2.508 | 0.6111 |
| | | **TOTAL:** | | 17.51 | 69.83 | 59.91 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **XL2474615-11; 10X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 12:06** | *Run Time:* | **10.00** |

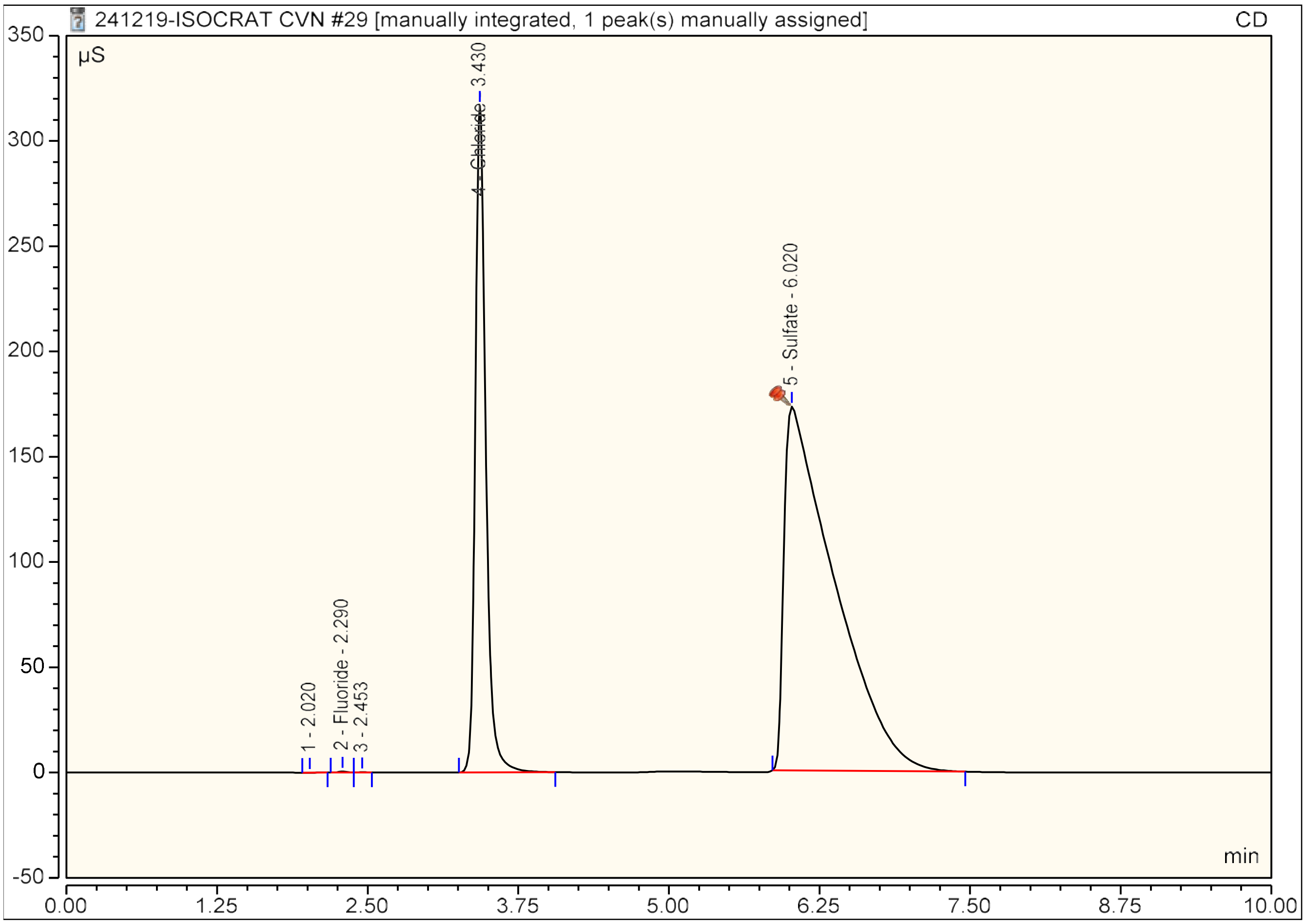
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.002 | 0.026 | 0.2614 |
| 3 | 3.46 | **Chloride** | BMB | 0.067 | 0.696 | 2.9728 |
| 5 | 6.71 | **Sulfate** | BM * | 1.665 | 8.920 | 60.5503 |
| 6 | 7.18 | **Nitrate** | MB* | 0.039 | 0.183 | 0.6844 |
| | | **TOTAL:** | | 1.77 | 9.83 | 64.47 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **XL2474615-09** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 12:18** | *Run Time:* | **10.00** |

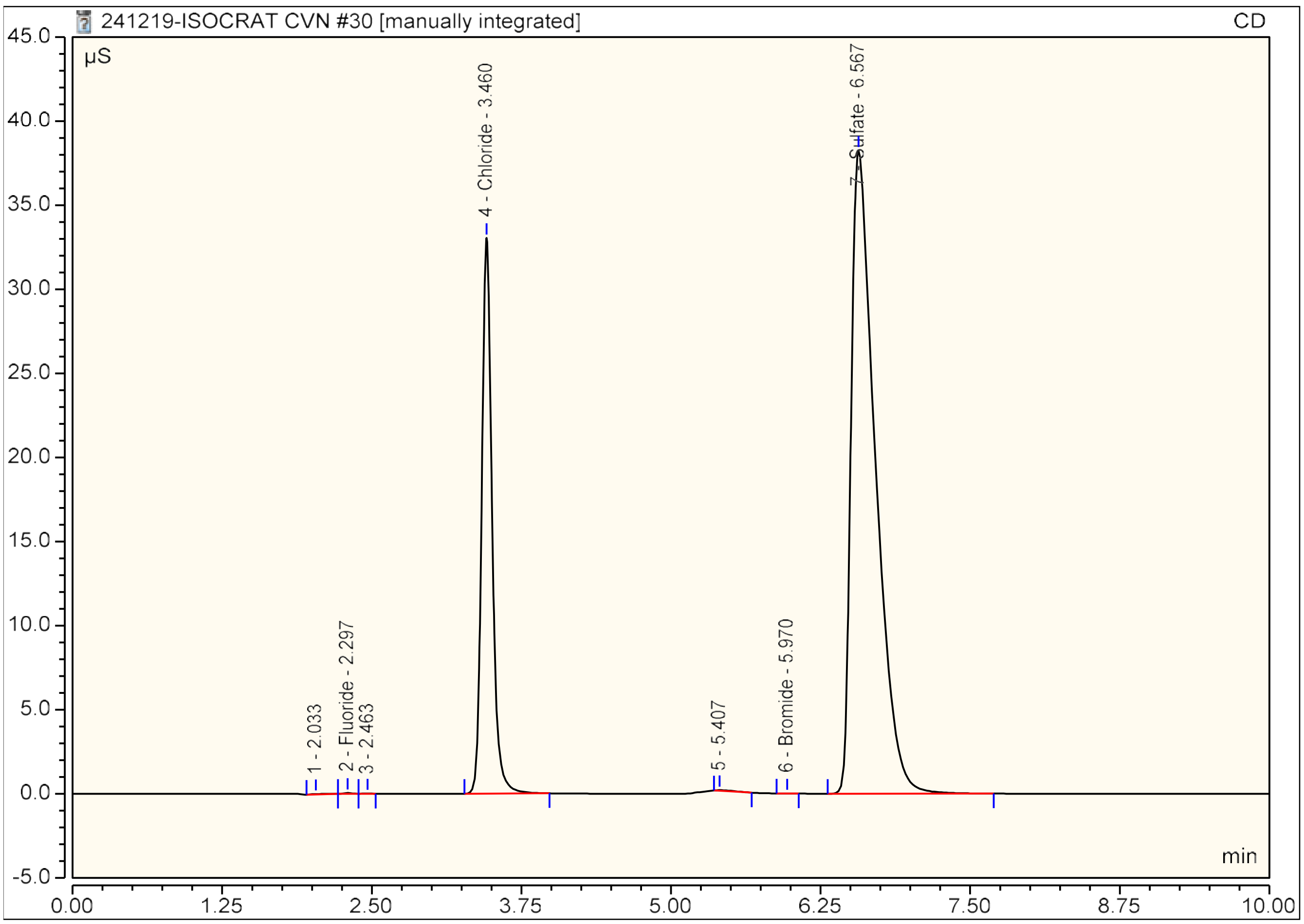
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.29 | **Fluoride** | BMB | 0.032 | 0.454 | 0.0828 |
| 4 | 3.43 | **Chloride** | BMB* | 32.086 | 316.714 | 85.5432 |
| 5 | 6.02 | **Sulfate** | BMB*^ | 83.921 | 172.729 | 295.2369 |
| | | **TOTAL:** | | 116.04 | 489.90 | 380.86 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474615-09; 10X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 12:30** | *Run Time:* | **10.00** |

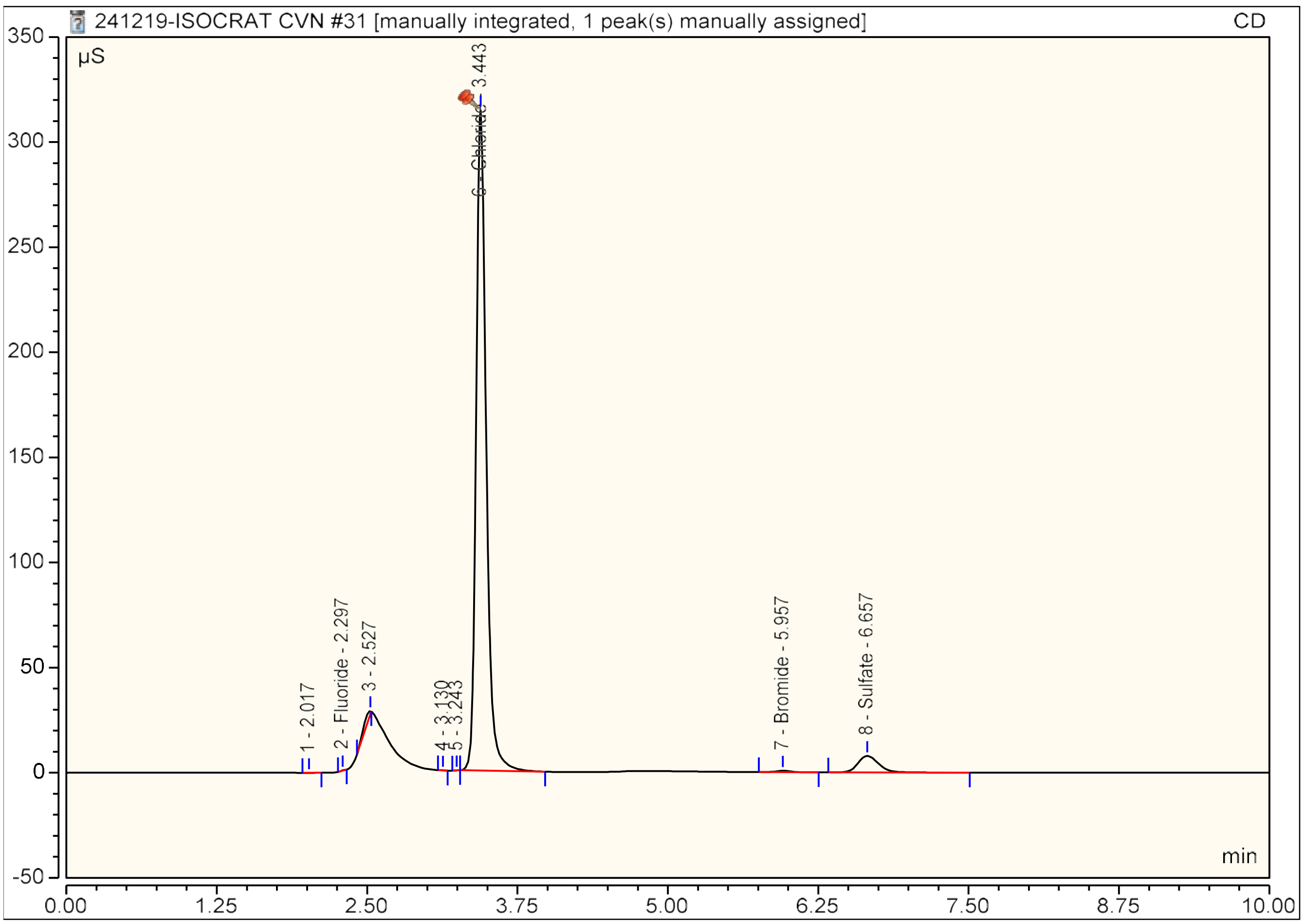
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.003 | 0.043 | 0.2728 |
| 4 | 3.46 | **Chloride** | BMB* | 3.319 | 33.035 | 89.5356 |
| 6 | 5.97 | **Bromide** | BMB | 0.000 | 0.001 | 0.3078 |
| 7 | 6.57 | **Sulfate** | BMB | 8.989 | 38.234 | 318.0311 |
| | | **TOTAL:** | | 12.31 | 71.31 | 408.15 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474615-05** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 12:42** | *Run Time:* | **10.00** |

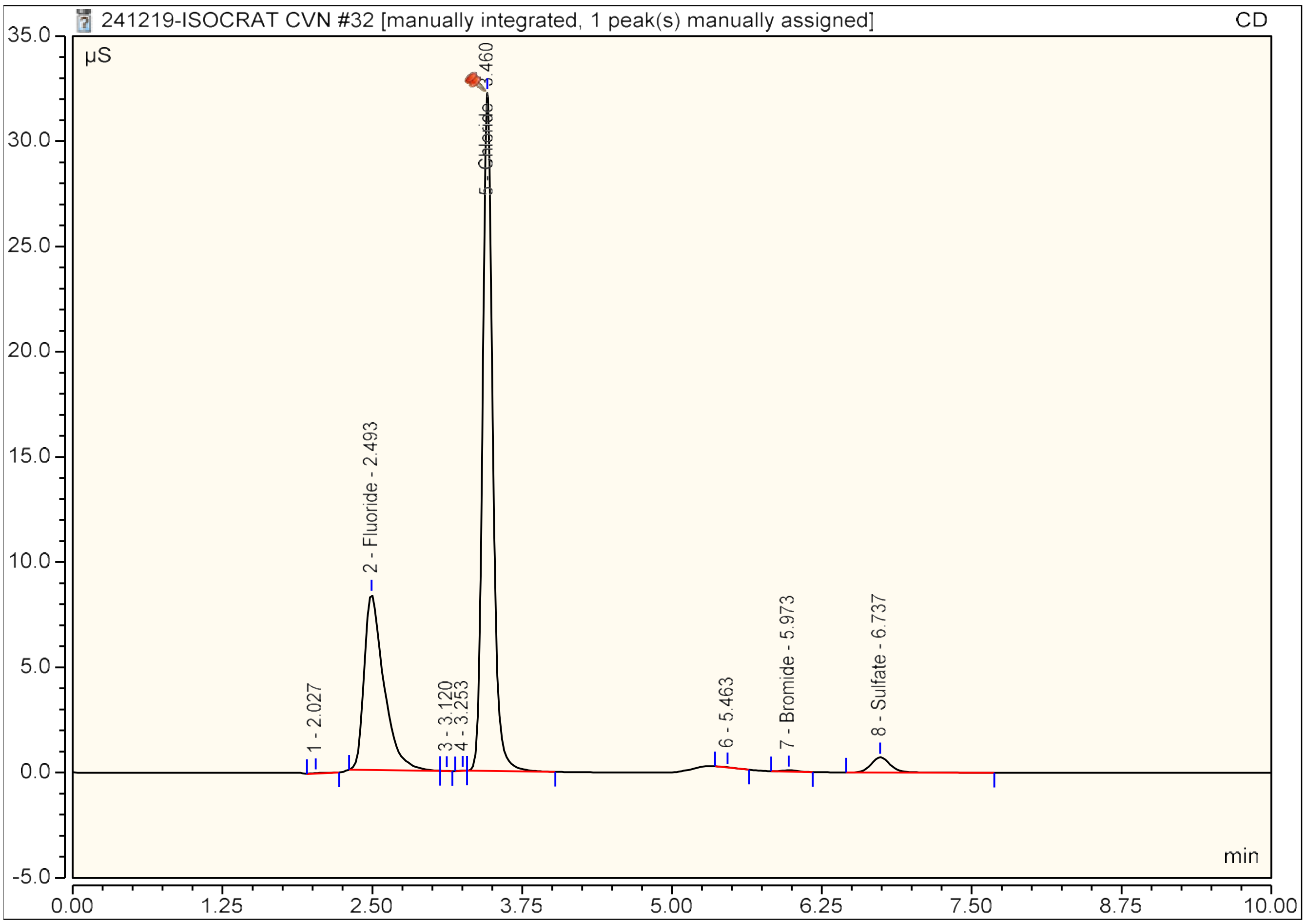
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.007 | 0.181 | 0.0343 |
| 6 | 3.44 | **Chloride** | bMB*^ | 30.425 | 314.148 | 81.1196 |
| 7 | 5.96 | **Bromide** | BMB | 0.116 | 0.783 | 1.0244 |
| 8 | 6.66 | **Sulfate** | BMB | 1.596 | 7.886 | 5.8117 |
| | | **TOTAL:** | | 32.14 | 323.00 | 87.99 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474615-05; 10X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 12:54** | *Run Time:* | **10.00** |

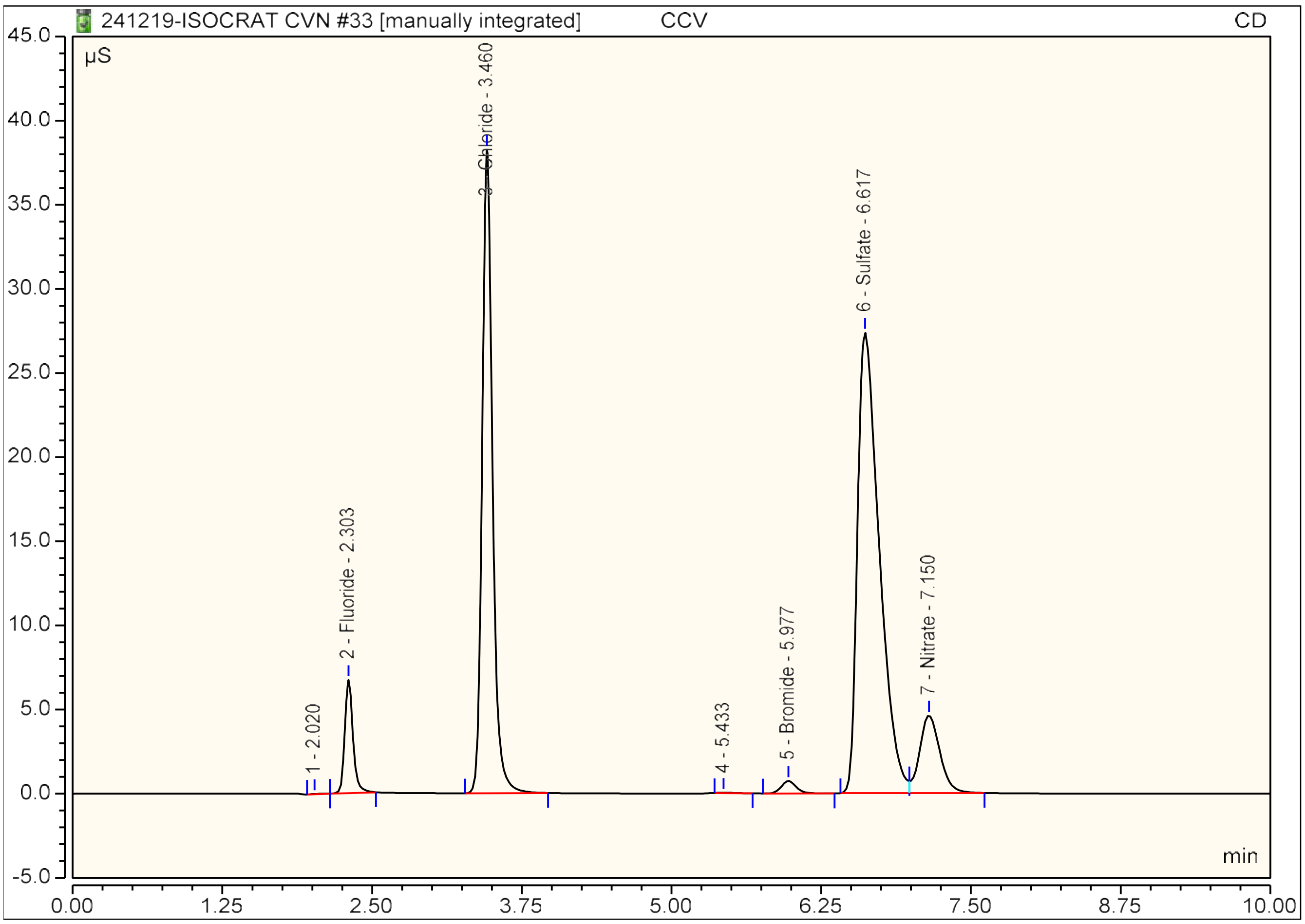
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.49 | **Fluoride** | BMb* | 1.592 | 8.338 | 30.4488 |
| 5 | 3.46 | **Chloride** | bMB*^ | 3.176 | 32.228 | 85.7239 |
| 7 | 5.97 | **Bromide** | BMB | 0.009 | 0.060 | 1.0265 |
| 8 | 6.74 | **Sulfate** | BMB | 0.136 | 0.721 | 6.7824 |
| | | **TOTAL:** | | 4.91 | 41.35 | 123.98 |



## 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:* | **19-Dec-2024 / 13:06** | *Run Time:* | **10.00** |

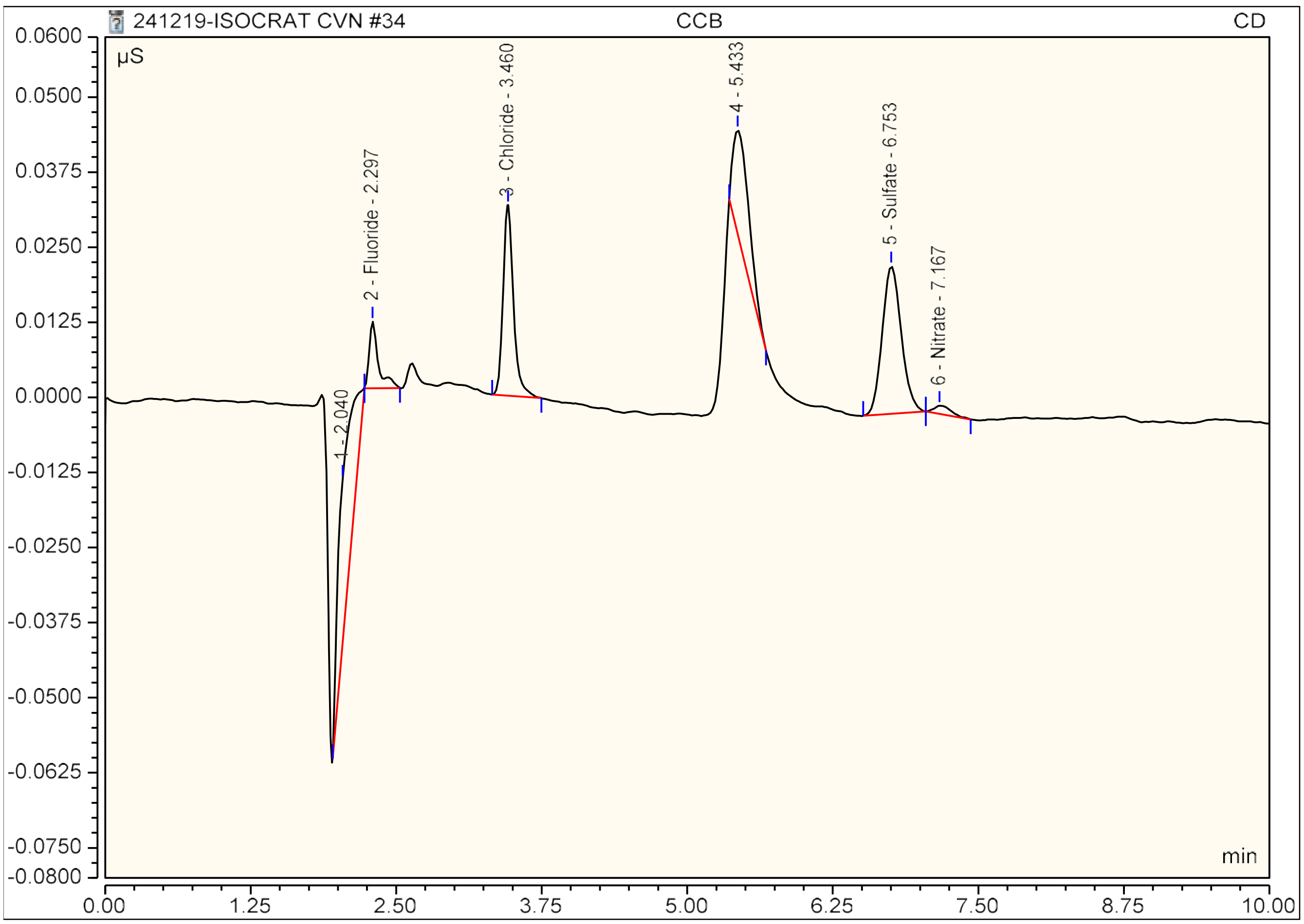
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.530 | 6.726 | 1.0282 |
| 3 | 3.46 | **Chloride** | BMB* | 3.849 | 38.243 | 10.3657 |
| 5 | 5.98 | **Bromide** | BMB | 0.110 | 0.751 | 0.9705 |
| 6 | 6.62 | **Sulfate** | BM * | 5.784 | 27.380 | 20.5350 |
| 7 | 7.15 | **Nitrate** | MB* | 0.901 | 4.601 | 1.0244 |
| | | **TOTAL:** | | 11.17 | 77.70 | 33.92 |



## 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:* | **19-Dec-2024 / 13:18** | *Run Time:* | **10.00** |

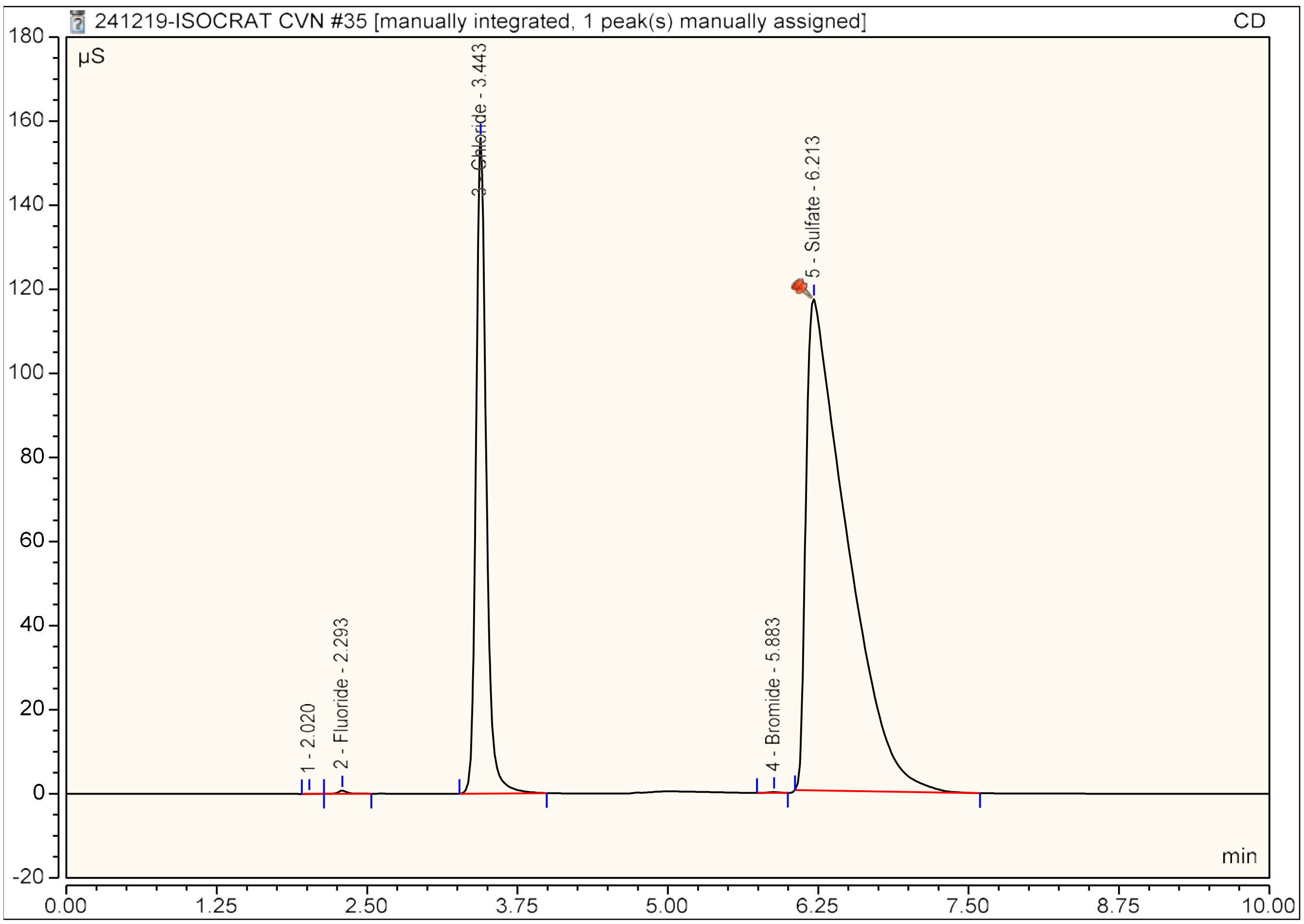
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.001 | 0.011 | 0.0235 |
| 3 | 3.46 | **Chloride** | BMB | 0.003 | 0.032 | 0.1263 |
| 5 | 6.75 | **Sulfate** | BMB | 0.005 | 0.025 | 0.2169 |
| 6 | 7.17 | **Nitrate** | BMB | 0.000 | 0.001 | 0.0255 |
| | | **TOTAL:** | | 0.01 | 0.07 | 0.39 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474615-07** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 13:30** | *Run Time:* | **10.00** |

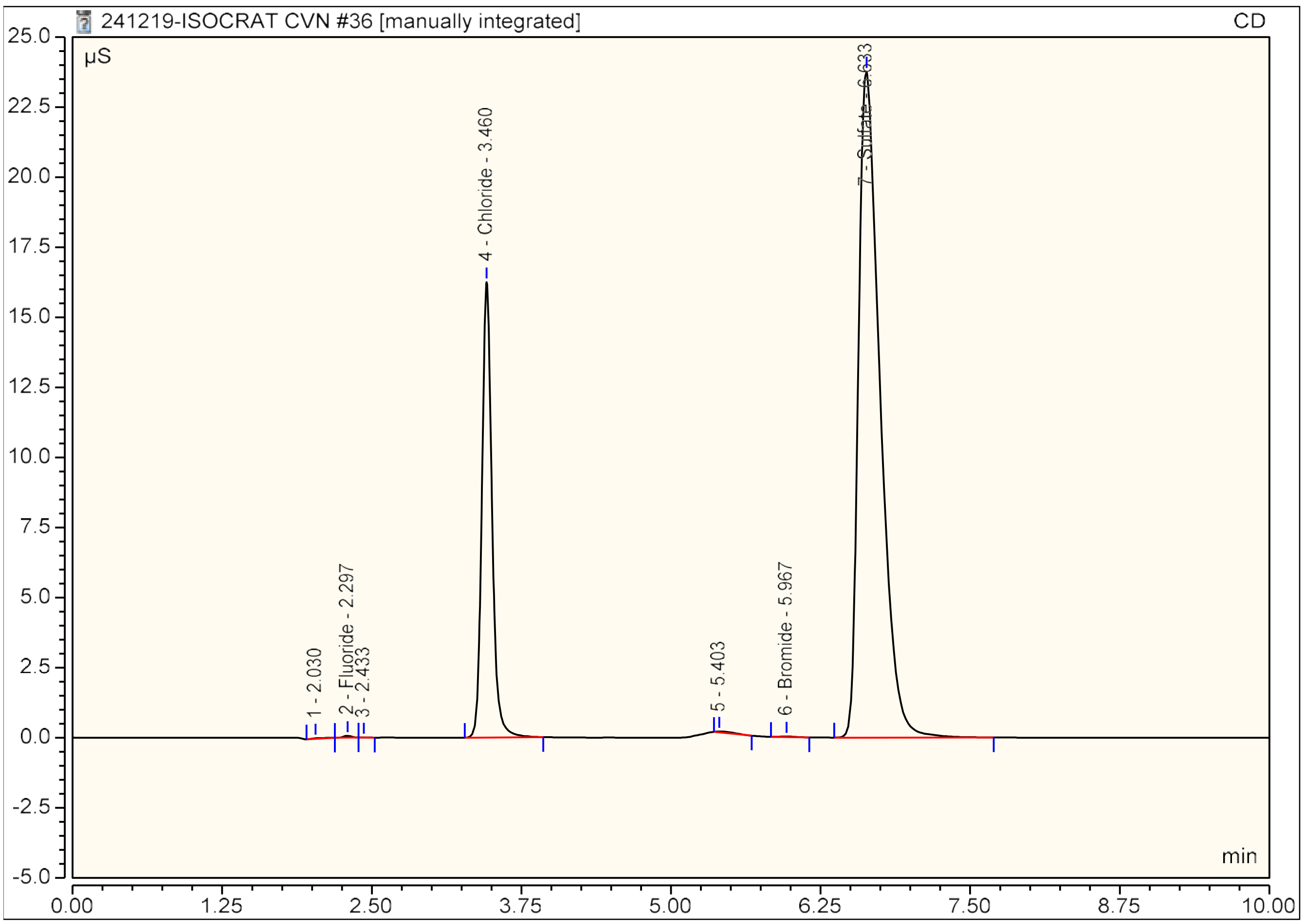
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.29 | **Fluoride** | BMB | 0.065 | 0.779 | 0.1444 |
| 3 | 3.44 | **Chloride** | BMB* | 15.427 | 155.944 | 41.1887 |
| 4 | 5.88 | **Bromide** | BMB | 0.026 | 0.219 | 0.2525 |
| 5 | 6.21 | **Sulfate** | BMB*^ | 46.001 | 116.822 | 161.9251 |
| | | **TOTAL:** | | 61.52 | 273.76 | 203.51 |



# Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474615-07; 10X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 13:43** | *Run Time:* | **10.00** |

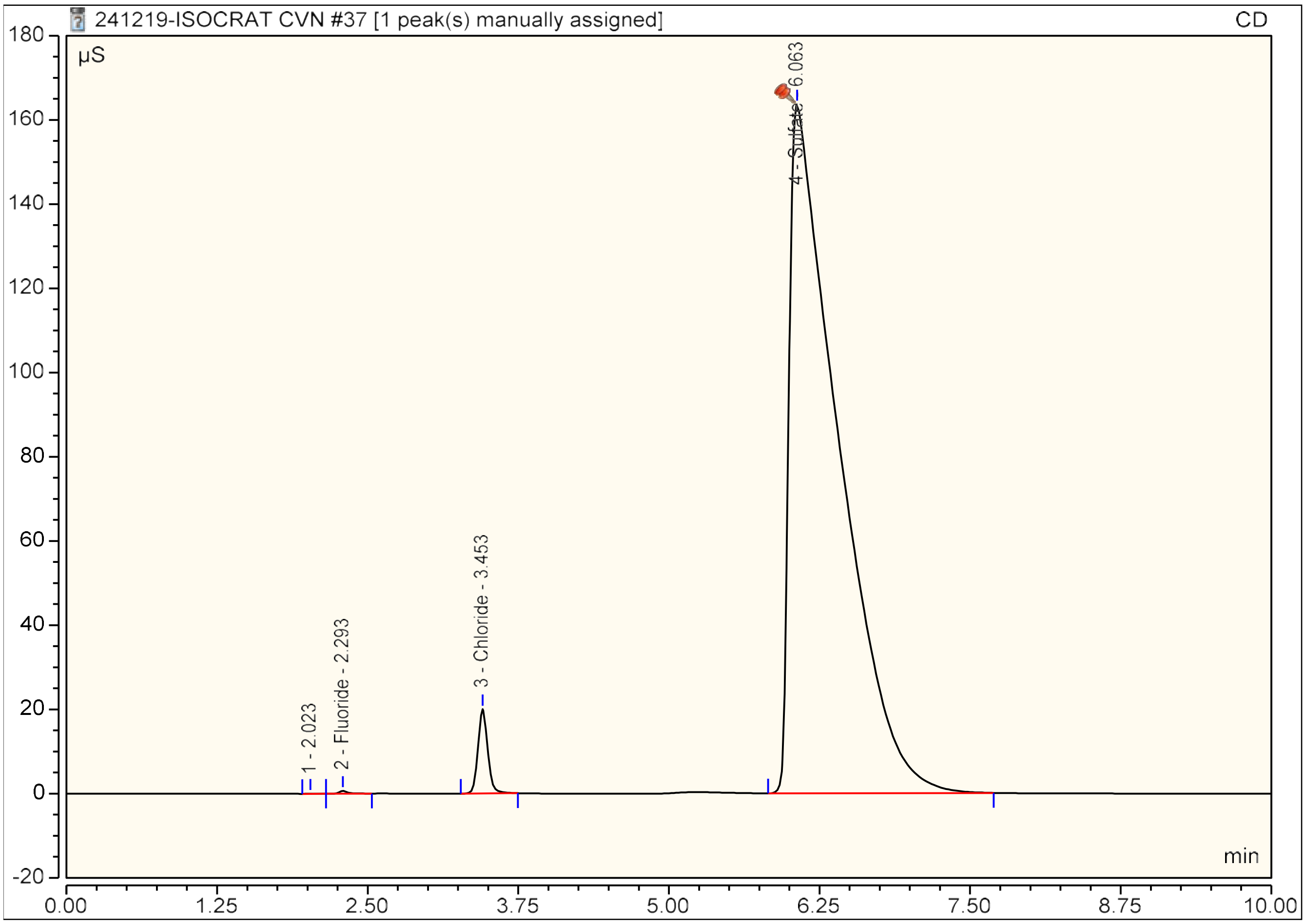
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.005 | 0.065 | 0.3021 |
| 4 | 3.46 | **Chloride** | BMB* | 1.598 | 16.244 | 43.7201 |
| 6 | 5.97 | **Bromide** | BMB | 0.003 | 0.022 | 0.5480 |
| 7 | 6.63 | **Sulfate** | BMB | 4.966 | 23.763 | 176.5803 |
| | | **TOTAL:** | | 6.57 | 40.09 | 221.15 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474615-13** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 13:55** | *Run Time:* | **10.00** |

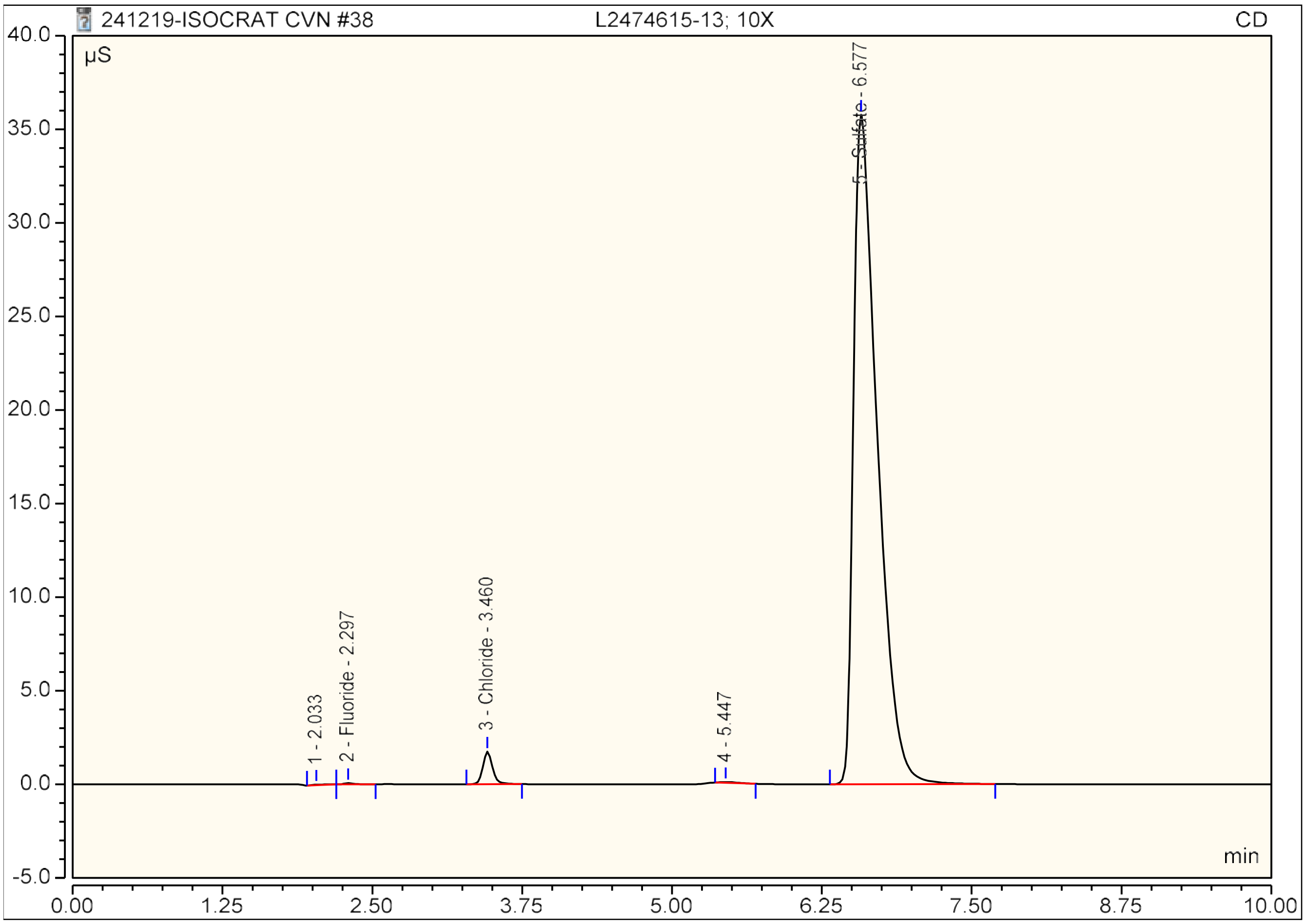
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.29 | **Fluoride** | BMB | 0.052 | 0.666 | 0.1210 |
| 3 | 3.45 | **Chloride** | BMB | 1.872 | 19.987 | 5.1012 |
| 4 | 6.06 | **Sulfate** | BMB^ | 77.139 | 163.579 | 271.3925 |
| | | **TOTAL:** | | 79.06 | 184.23 | 276.61 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474615-13; 10X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 14:07** | *Run Time:* | **10.00** |

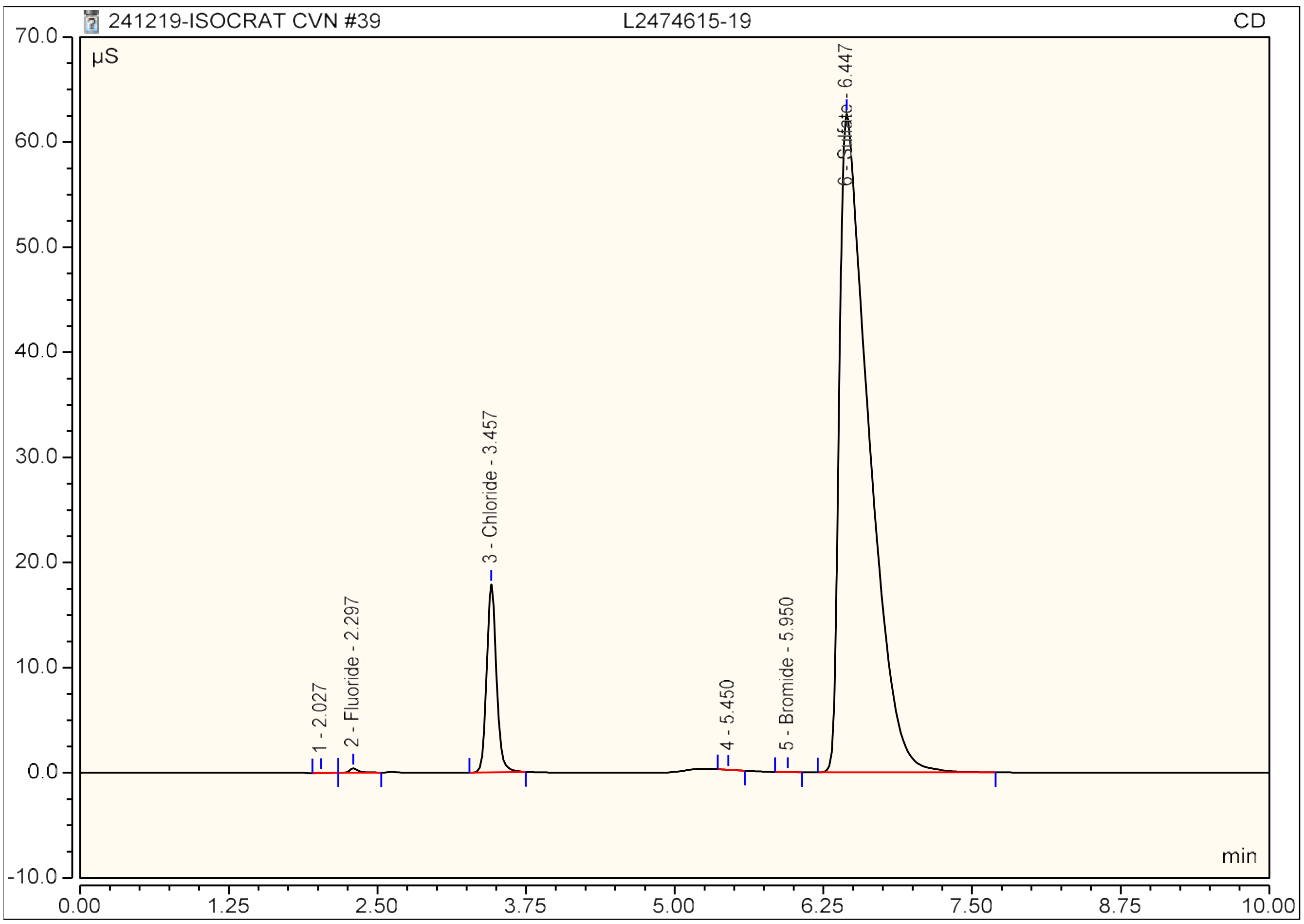
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.005 | 0.060 | 0.3106 |
| 3 | 3.46 | **Chloride** | BMB | 0.164 | 1.738 | 5.5498 |
| 5 | 6.58 | **Sulfate** | BMB | 8.239 | 35.771 | 291.6690 |
| **TOTAL:** | | | | 8.41 | 37.57 | 297.53 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474615-19** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 14:19** | *Run Time:* | **10.00** |

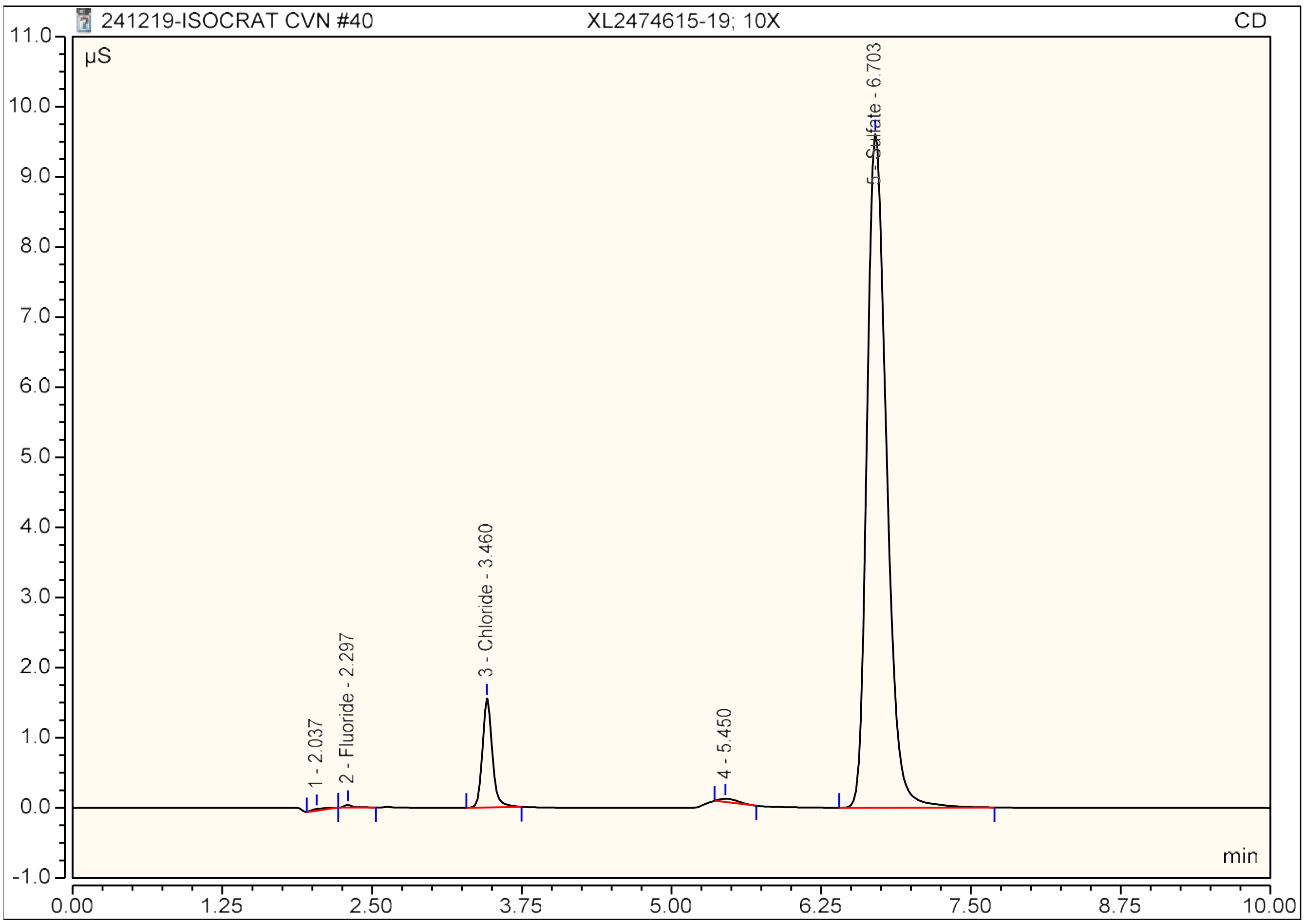
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.035 | 0.422 | 0.0872 |
| 3 | 3.46 | **Chloride** | BMB | 1.713 | 17.879 | 4.6796 |
| 5 | 5.95 | **Bromide** | BMB | 0.001 | 0.008 | 0.0374 |
| 6 | 6.45 | **Sulfate** | BMB | 17.946 | 62.648 | 63.2916 |
| | | **TOTAL:** | | 19.69 | 80.96 | 68.10 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **XL2474615-19; 10X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 14:31** | *Run Time:* | **10.00** |

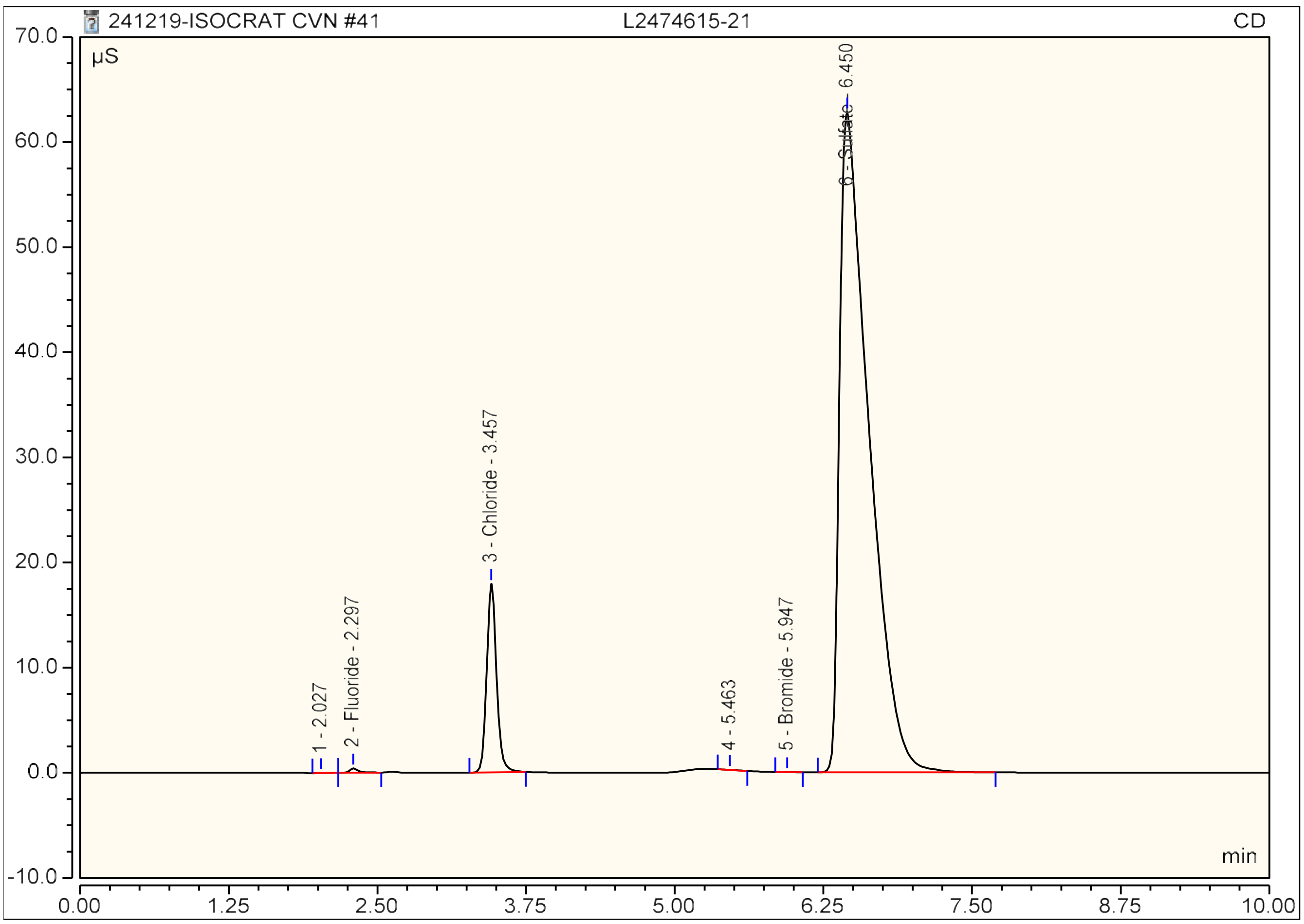
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.003 | 0.038 | 0.2798 |
| 3 | 3.46 | **Chloride** | BMB | 0.147 | 1.552 | 5.0919 |
| 5 | 6.70 | **Sulfate** | BMB | 1.816 | 9.607 | 65.8631 |
| | | **TOTAL:** | | 1.97 | 11.20 | 71.23 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474615-21** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 14:43** | *Run Time:* | **10.00** |

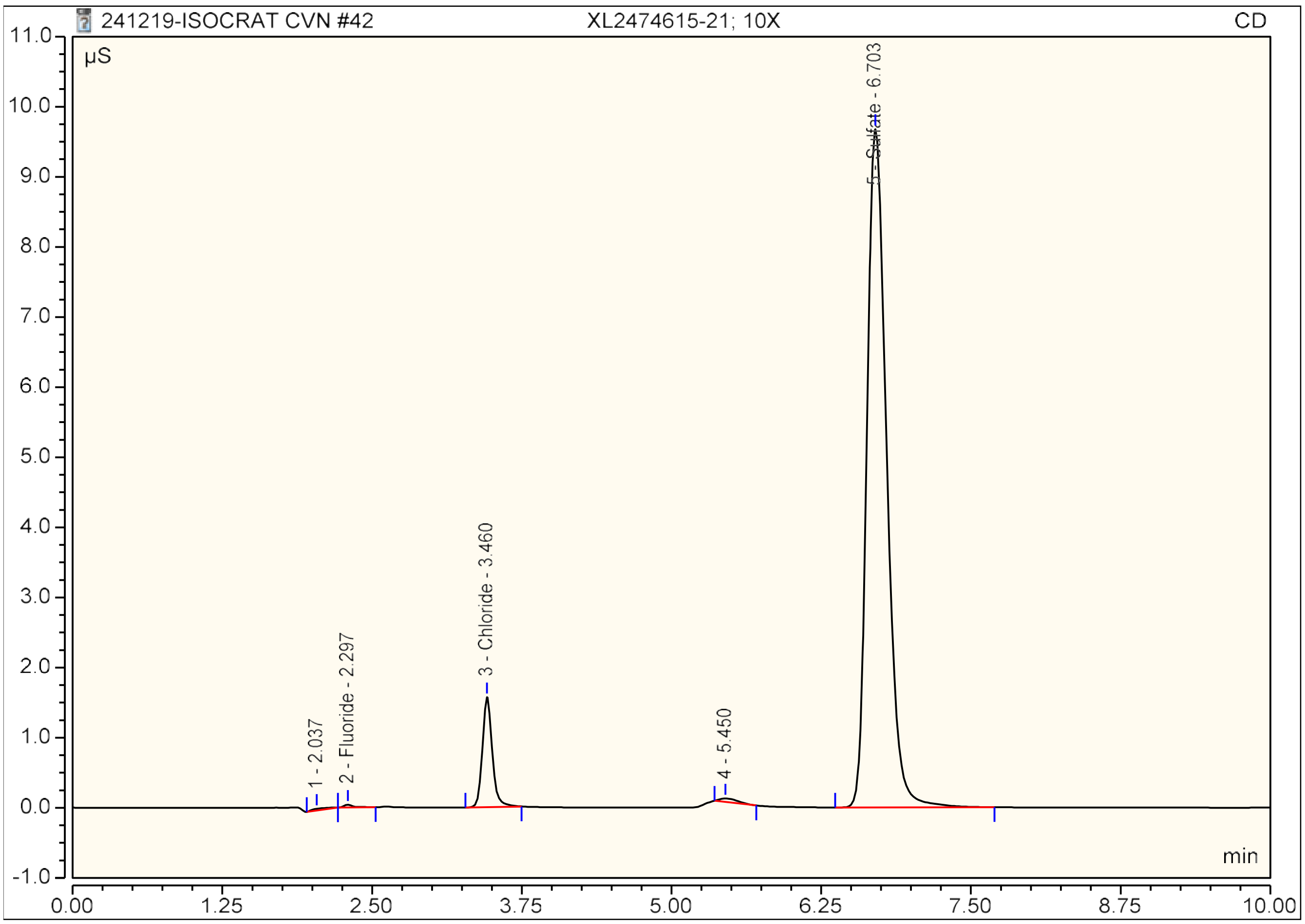
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.034 | 0.416 | 0.0861 |
| 3 | 3.46 | **Chloride** | BMB | 1.724 | 17.926 | 4.7071 |
| 5 | 5.95 | **Bromide** | BMB | 0.001 | 0.008 | 0.0372 |
| 6 | 6.45 | **Sulfate** | BMB | 17.956 | 62.806 | 63.3290 |
| | | **TOTAL:** | | 19.72 | 81.16 | 68.16 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **XL2474615-21; 10X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 14:55** | *Run Time:* | **10.00** |

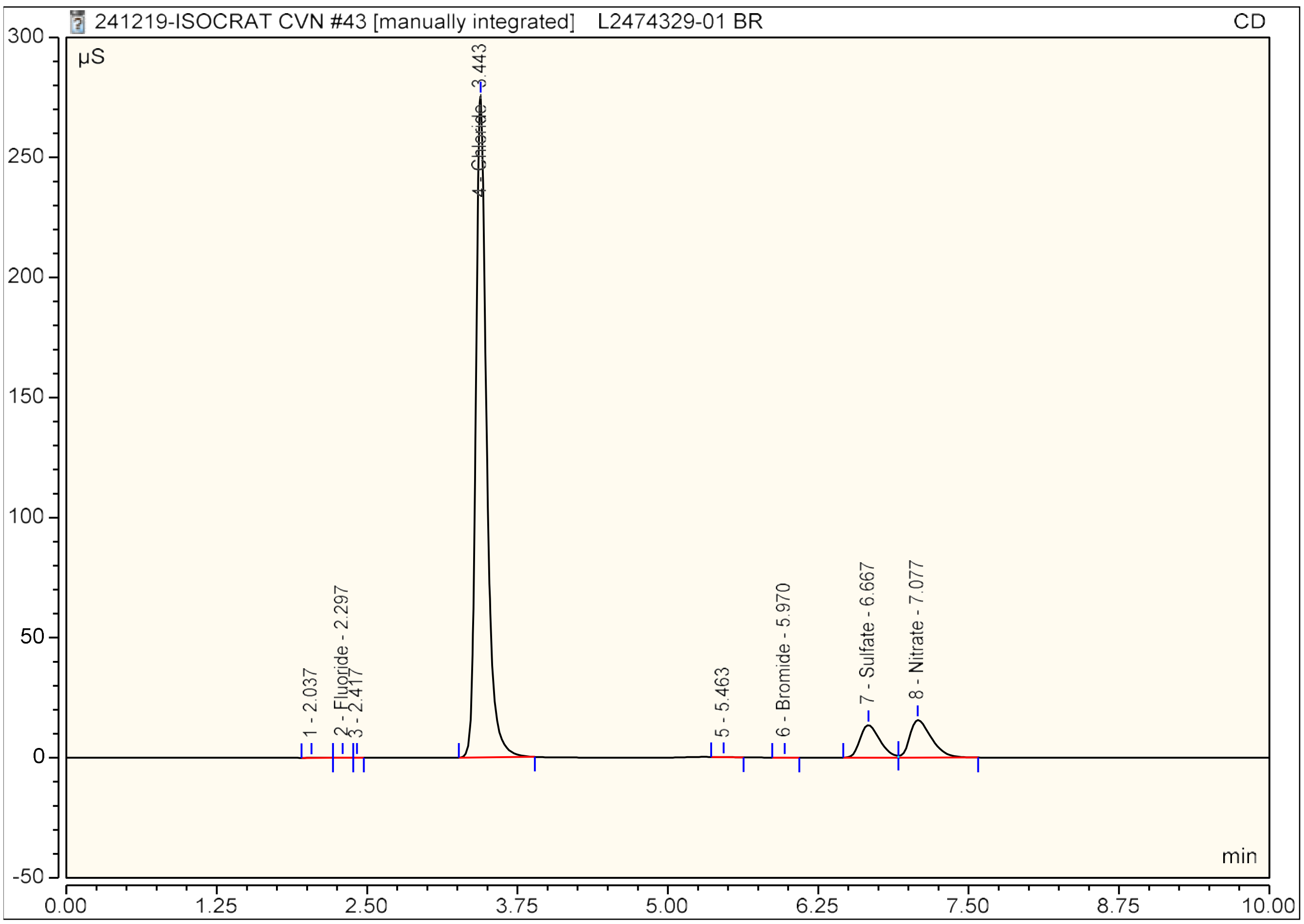
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.003 | 0.038 | 0.2802 |
| 3 | 3.46 | **Chloride** | BMB | 0.149 | 1.568 | 5.1382 |
| 5 | 6.70 | **Sulfate** | BMB | 1.832 | 9.675 | 66.4028 |
| | | **TOTAL:** | | 1.98 | 11.28 | 71.82 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474329-01 BR** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 15:07** | *Run Time:* | **10.00** |

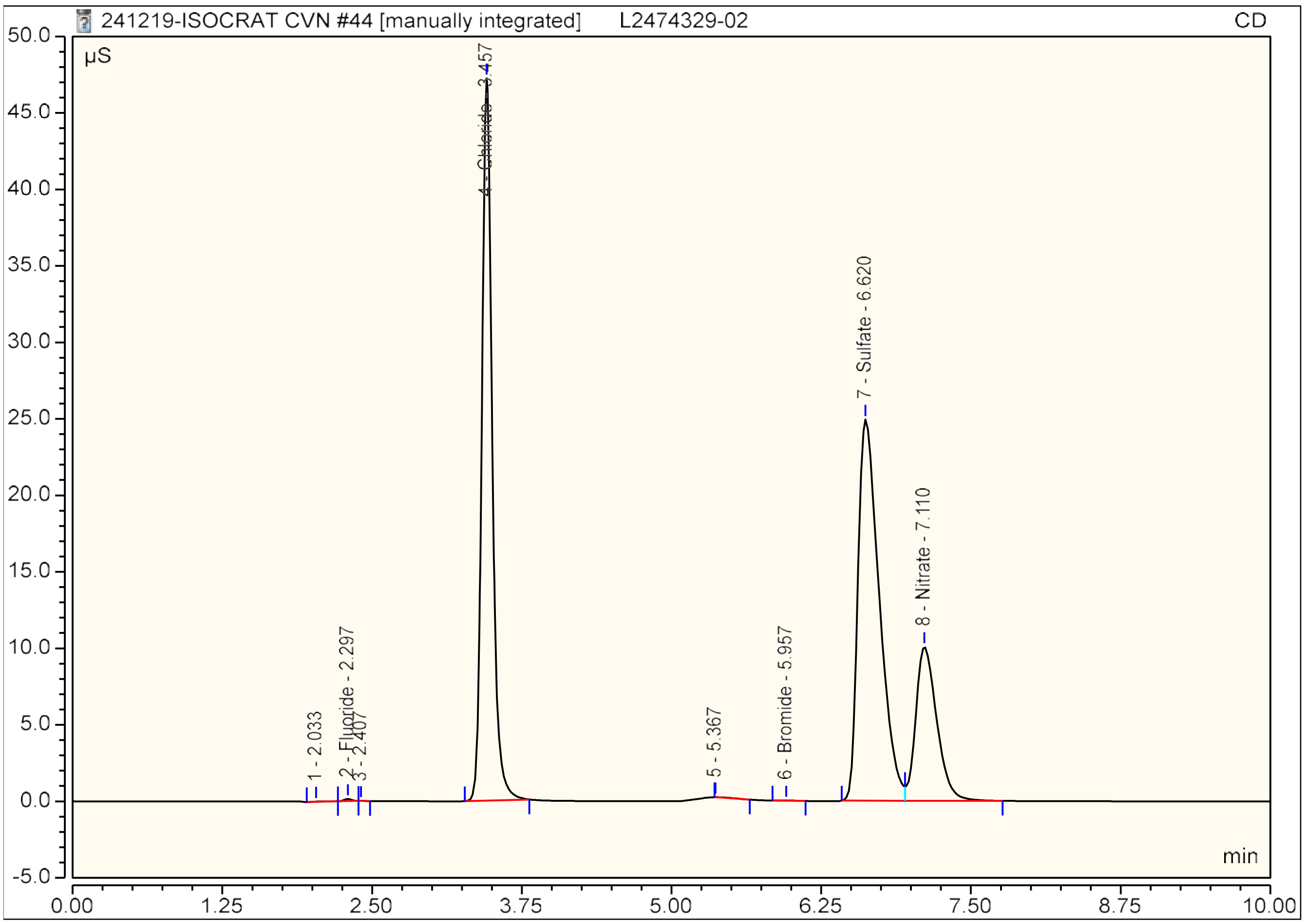
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.005 | 0.072 | 0.0312 |
| 4 | 3.44 | **Chloride** | BMB* | 28.655 | 275.319 | 76.4090 |
| 6 | 5.97 | **Bromide** | BMB | 0.001 | 0.005 | 0.0347 |
| 7 | 6.67 | **Sulfate** | BM * | 2.574 | 13.532 | 9.2511 |
| 8 | 7.08 | **Nitrate** | MB* | 3.251 | 15.647 | 3.6297 |
| | | **TOTAL:** | | 34.49 | 304.58 | 89.36 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474329-02** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 15:19** | *Run Time:* | **10.00** |

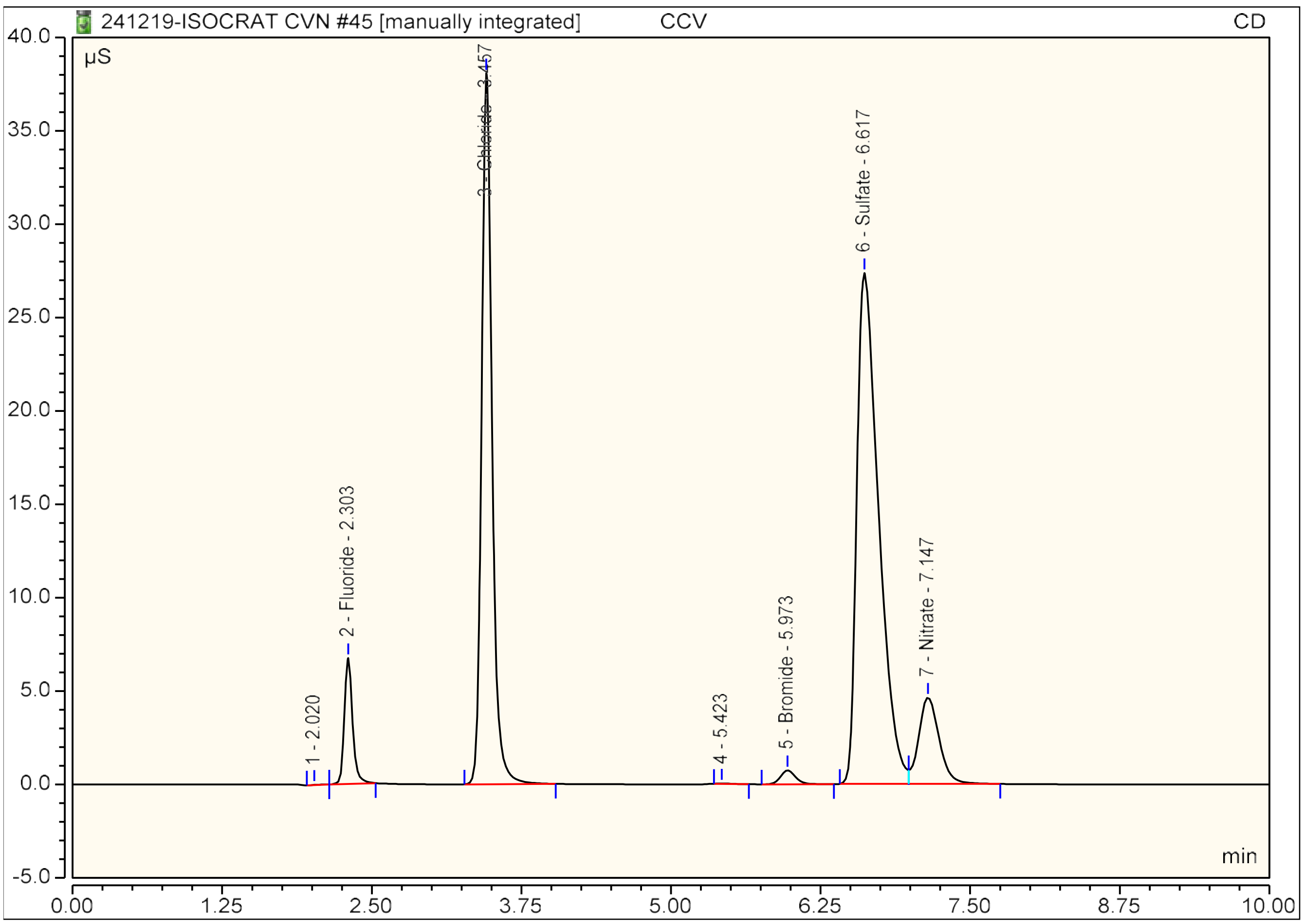
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.010 | 0.142 | 0.3977 |
| 4 | 3.46 | **Chloride** | BMB* | 4.727 | 47.229 | 127.0287 |
| 6 | 5.96 | **Bromide** | BMB | 0.002 | 0.015 | 0.4646 |
| 7 | 6.62 | **Sulfate** | BM * | 5.153 | 24.912 | 183.1564 |
| 8 | 7.11 | **Nitrate** | MB* | 2.041 | 10.064 | 22.8795 |
| | | **TOTAL:** | | 11.93 | 82.36 | 333.93 |



## 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:* | **19-Dec-2024 / 15:31** | *Run Time:* | **10.00** |

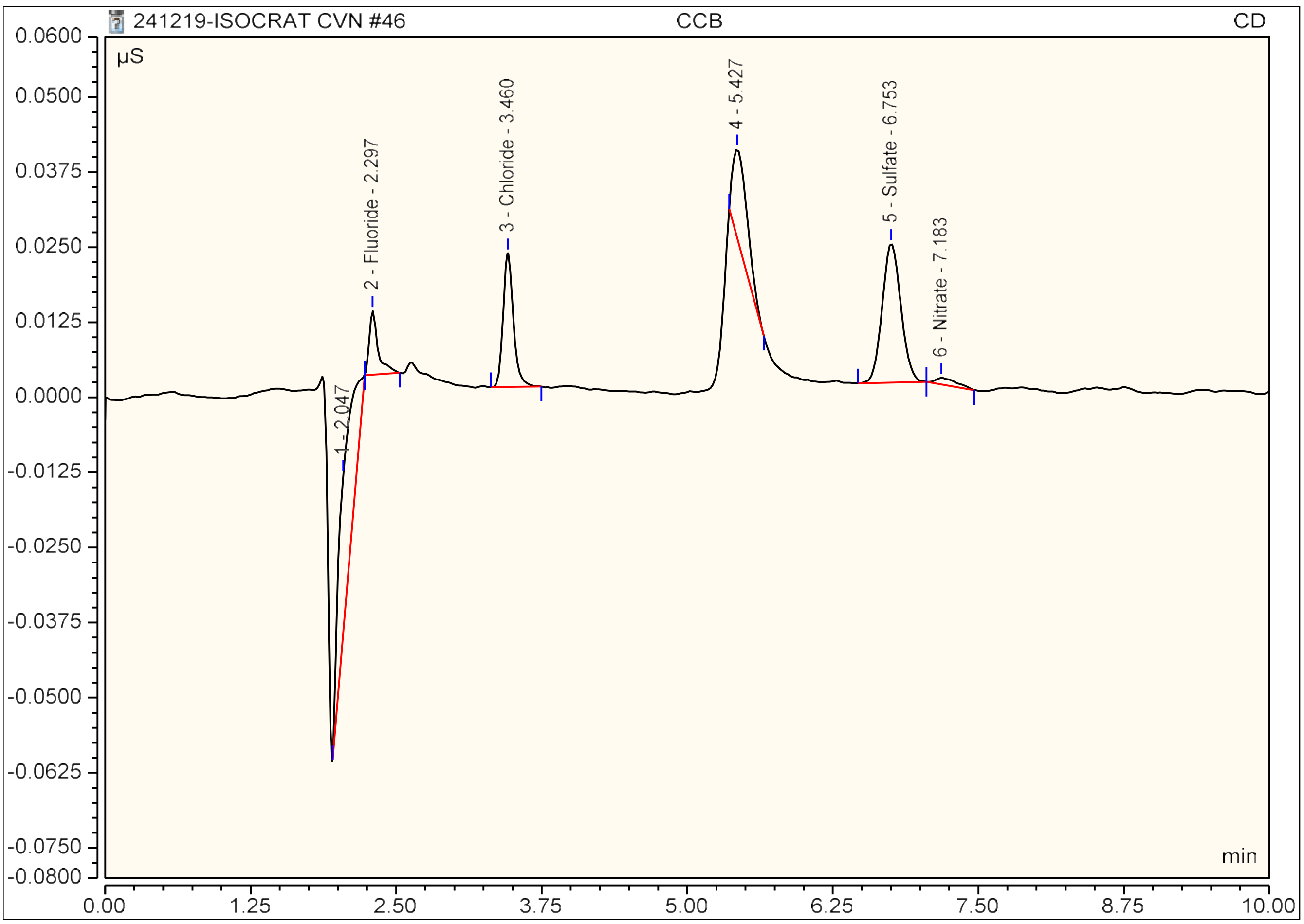
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.531 | 6.736 | 1.0303 |
| 3 | 3.46 | **Chloride** | BMB* | 3.858 | 38.057 | 10.3884 |
| 5 | 5.97 | **Bromide** | BMB | 0.111 | 0.751 | 0.9757 |
| 6 | 6.62 | **Sulfate** | BM * | 5.792 | 27.358 | 20.5618 |
| 7 | 7.15 | **Nitrate** | MB* | 0.918 | 4.622 | 1.0427 |
| | | **TOTAL:** | | 11.21 | 77.52 | 34.00 |



## 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:* | **19-Dec-2024 / 15:43** | *Run Time:* | **10.00** |

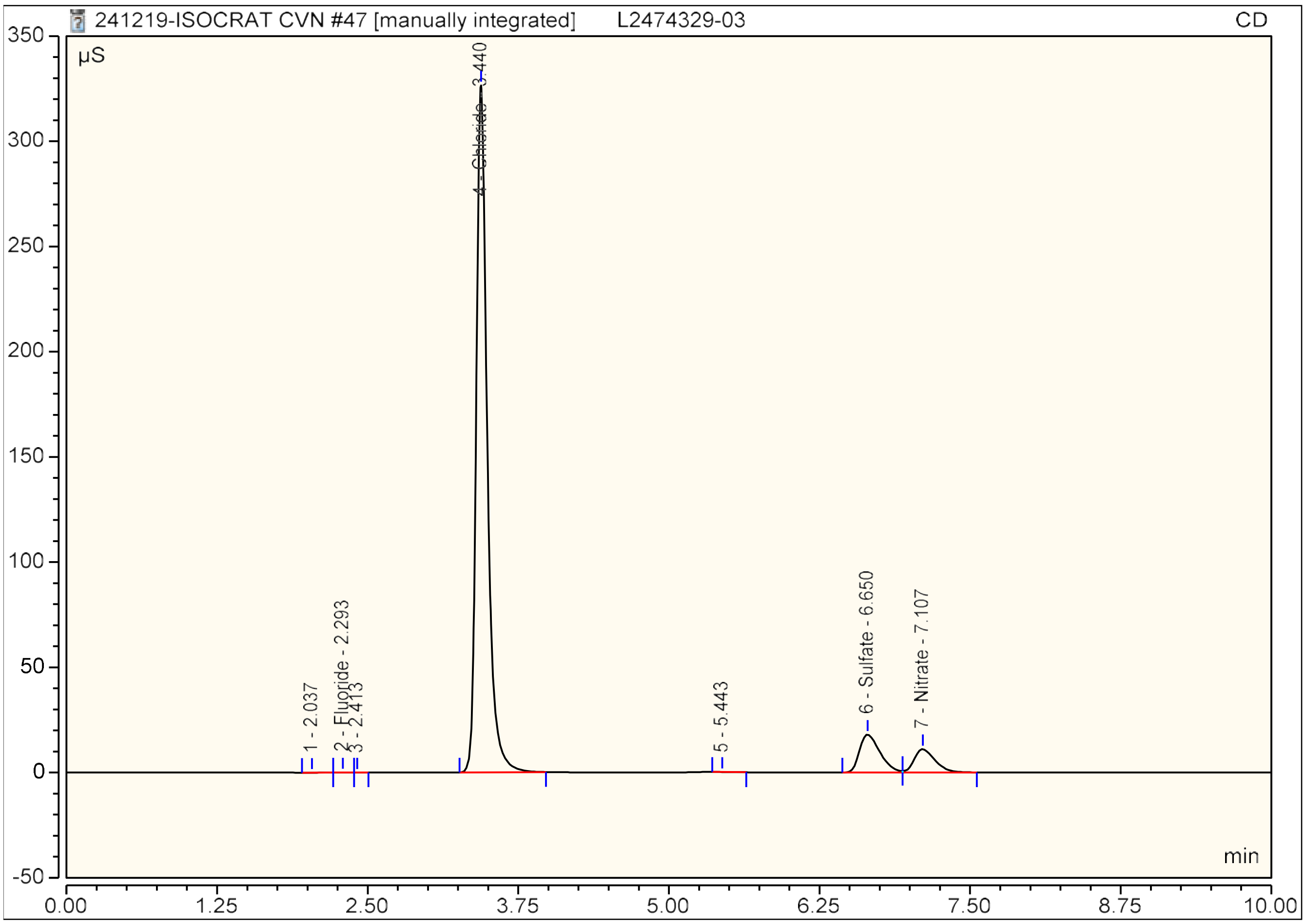
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.001 | 0.011 | 0.0234 |
| 3 | 3.46 | **Chloride** | BMB | 0.002 | 0.022 | 0.1237 |
| 5 | 6.75 | **Sulfate** | BMB | 0.004 | 0.023 | 0.2156 |
| 6 | 7.18 | **Nitrate** | BMB | 0.000 | 0.001 | 0.0255 |
| | | **TOTAL:** | | 0.01 | 0.06 | 0.39 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474329-03** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 15:55** | *Run Time:* | **10.00** |

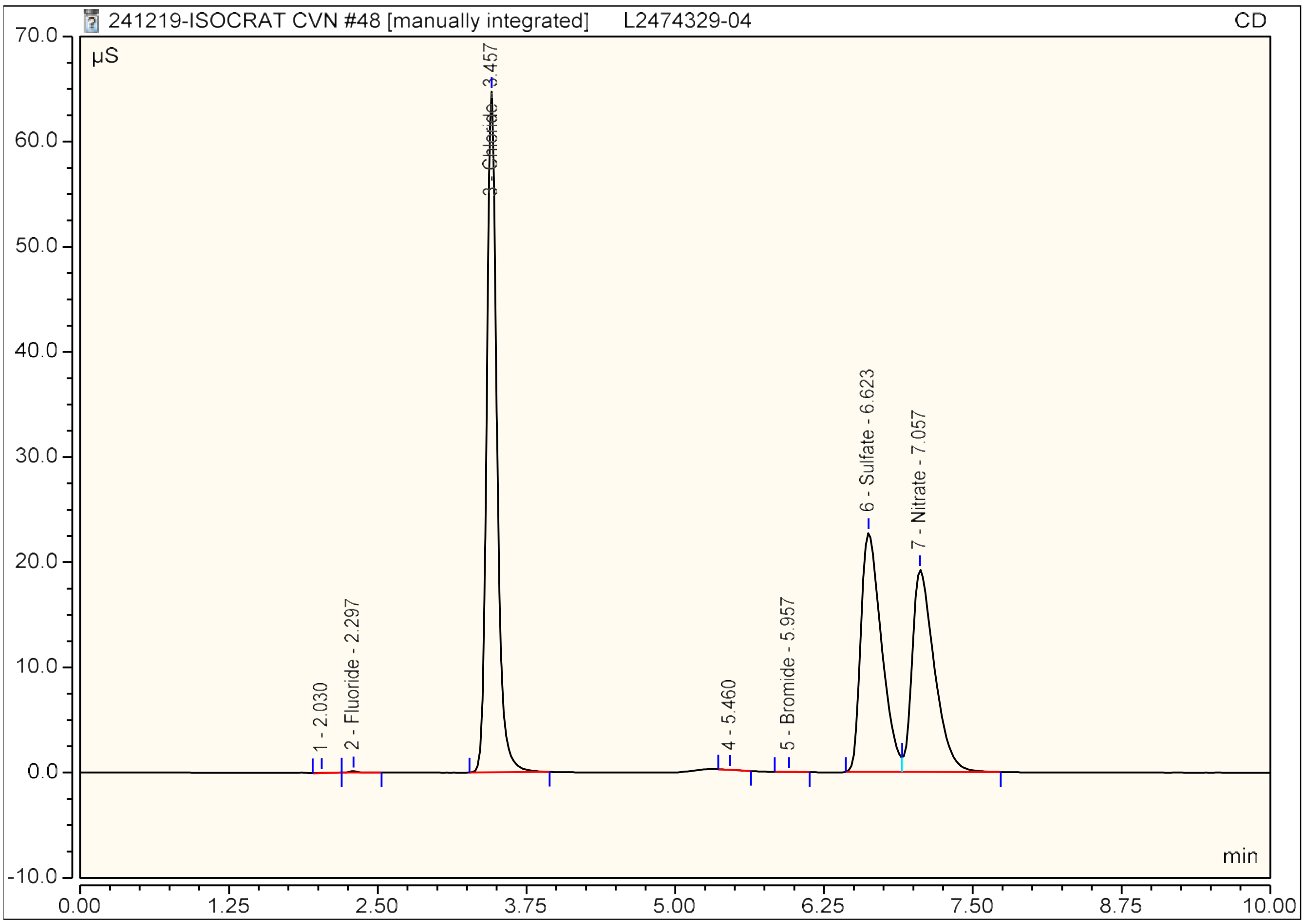
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.29 | **Fluoride** | BMB | 0.005 | 0.069 | 0.0305 |
| 4 | 3.44 | **Chloride** | BMB* | 34.387 | 326.434 | 91.6680 |
| 6 | 6.65 | **Sulfate** | BM * | 3.539 | 17.970 | 12.6425 |
| 7 | 7.11 | **Nitrate** | MB* | 2.218 | 11.057 | 2.4845 |
| | | **TOTAL:** | | 40.15 | 355.53 | 106.83 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474329-04** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 16:08** | *Run Time:* | **10.00** |

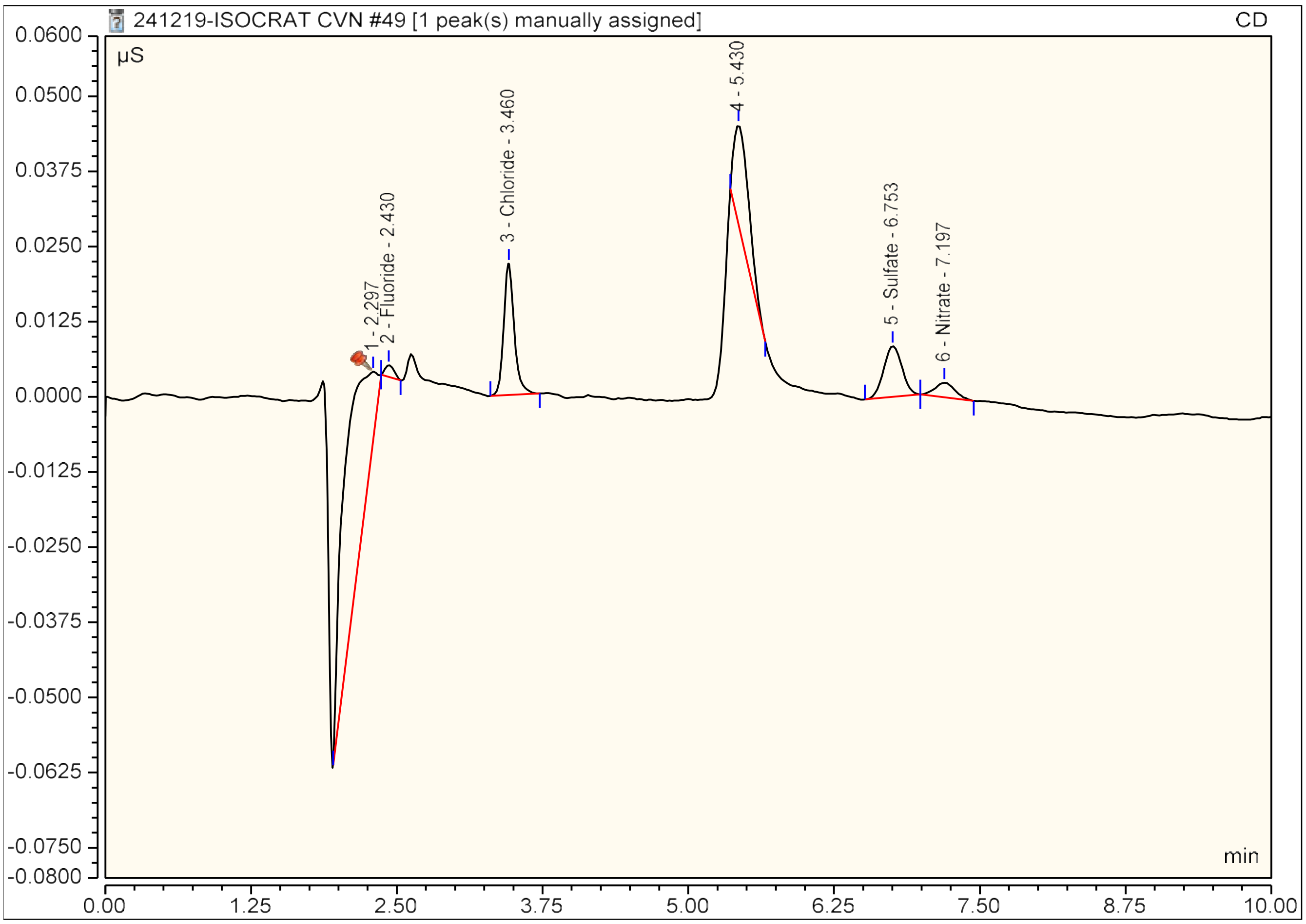
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.011 | 0.137 | 0.0430 |
| 3 | 3.46 | **Chloride** | BMB* | 6.518 | 64.736 | 17.4707 |
| 5 | 5.96 | **Bromide** | BMB | 0.004 | 0.027 | 0.0606 |
| 6 | 6.62 | **Sulfate** | BM * | 4.587 | 22.731 | 16.3269 |
| 7 | 7.06 | **Nitrate** | MB* | 4.164 | 19.202 | 4.6425 |
| | | **TOTAL:** | | 15.28 | 106.83 | 38.54 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474329-05** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 16:20** | *Run Time:* | **10.00** |

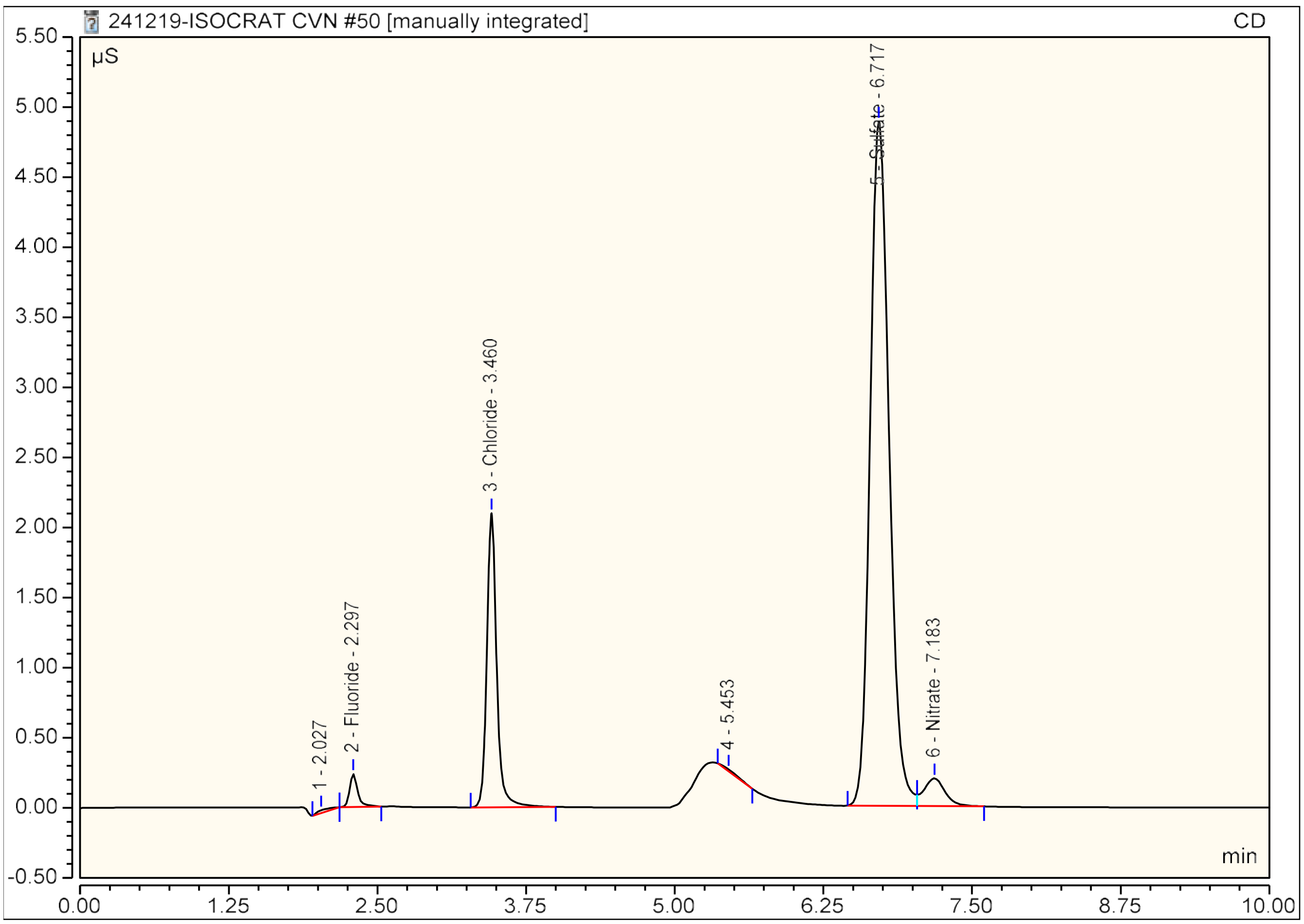
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.43 | **Fluoride** | BMB | 0.000 | 0.002 | 0.0220 |
| 3 | 3.46 | **Chloride** | BMB | 0.002 | 0.022 | 0.1237 |
| 5 | 6.75 | **Sulfate** | BMB | 0.002 | 0.008 | 0.2058 |
| 6 | 7.20 | **Nitrate** | BMB | 0.000 | 0.002 | 0.0258 |
| | | **TOTAL:** | | 0.00 | 0.03 | 0.38 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474281-01 F CL SO4 BR** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 16:32** | *Run Time:* | **10.00** |

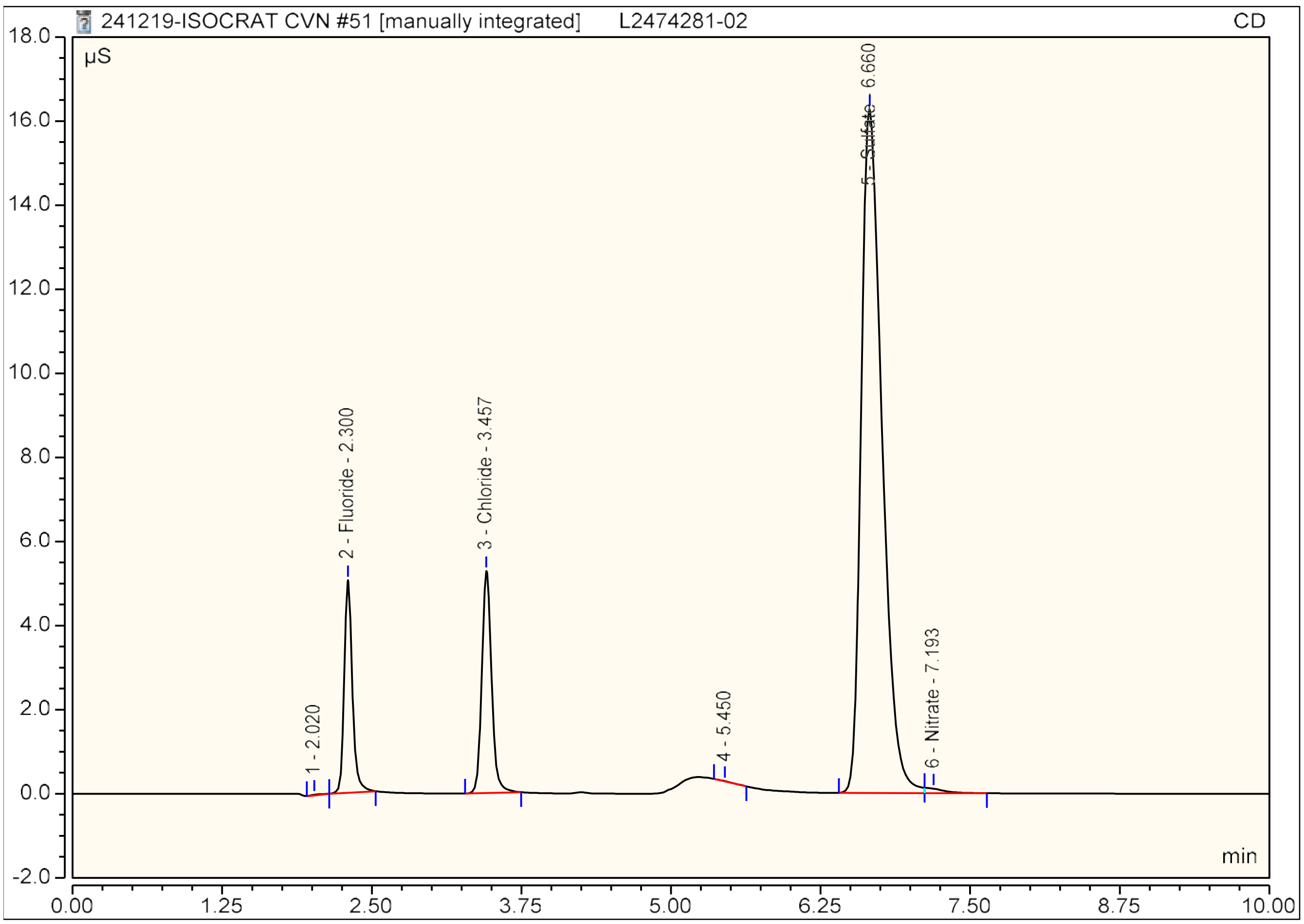
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.019 | 0.236 | 0.0573 |
| 3 | 3.46 | **Chloride** | BMB* | 0.202 | 2.097 | 0.6553 |
| 5 | 6.72 | **Sulfate** | BM * | 0.904 | 4.882 | 3.3798 |
| 6 | 7.18 | **Nitrate** | MB* | 0.041 | 0.198 | 0.0708 |
| | | **TOTAL:** | | 1.17 | 7.41 | 4.16 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474281-02** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 16:44** | *Run Time:* | **10.00** |

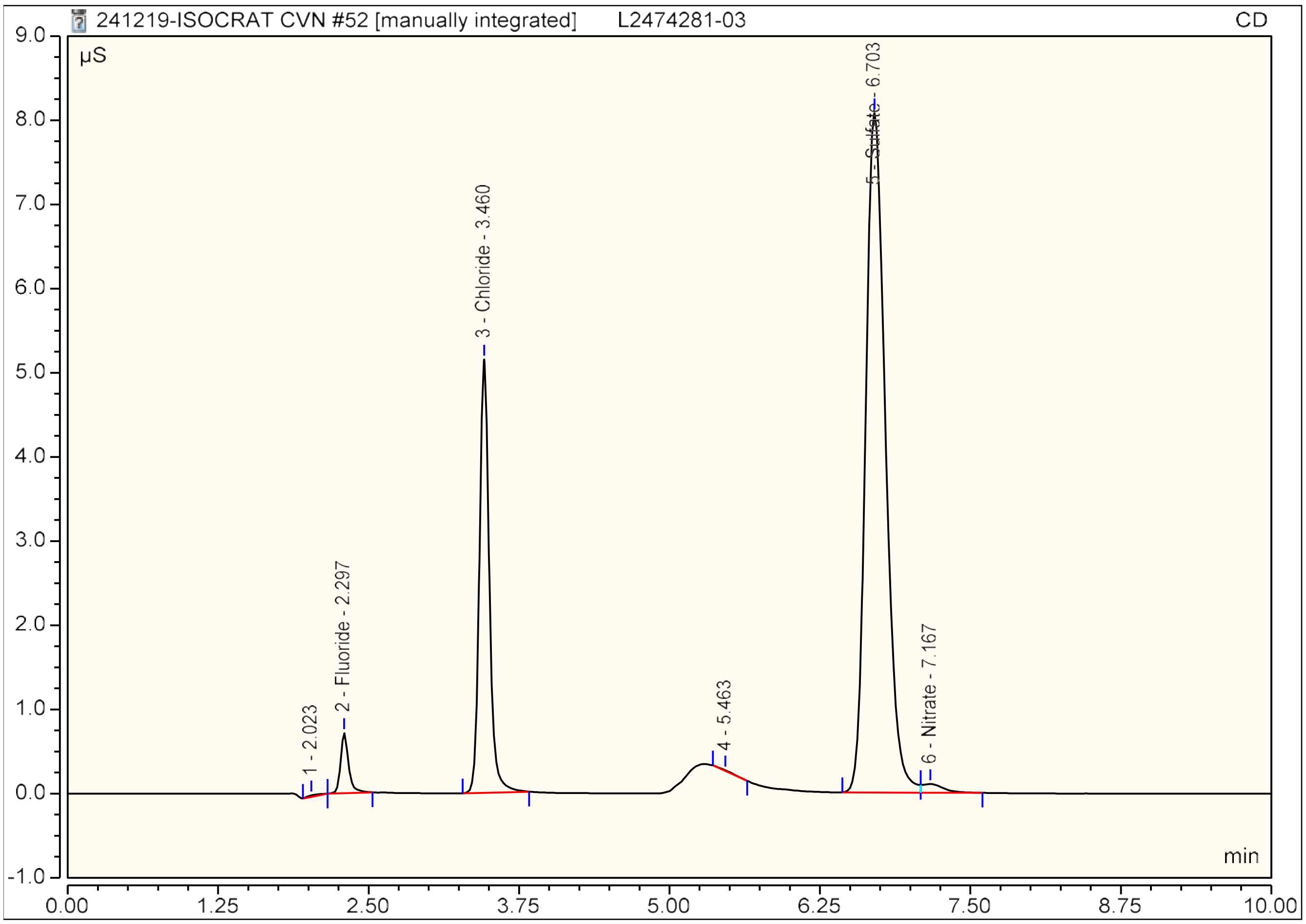
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.395 | 5.052 | 0.7712 |
| 3 | 3.46 | **Chloride** | BMB | 0.498 | 5.280 | 1.4442 |
| 5 | 6.66 | **Sulfate** | BM * | 3.280 | 16.252 | 11.7312 |
| 6 | 7.19 | **Nitrate** | MB* | 0.021 | 0.106 | 0.0482 |
| | | **TOTAL:** | | 4.19 | 26.69 | 13.99 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474281-03** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 16:56** | *Run Time:* | **10.00** |

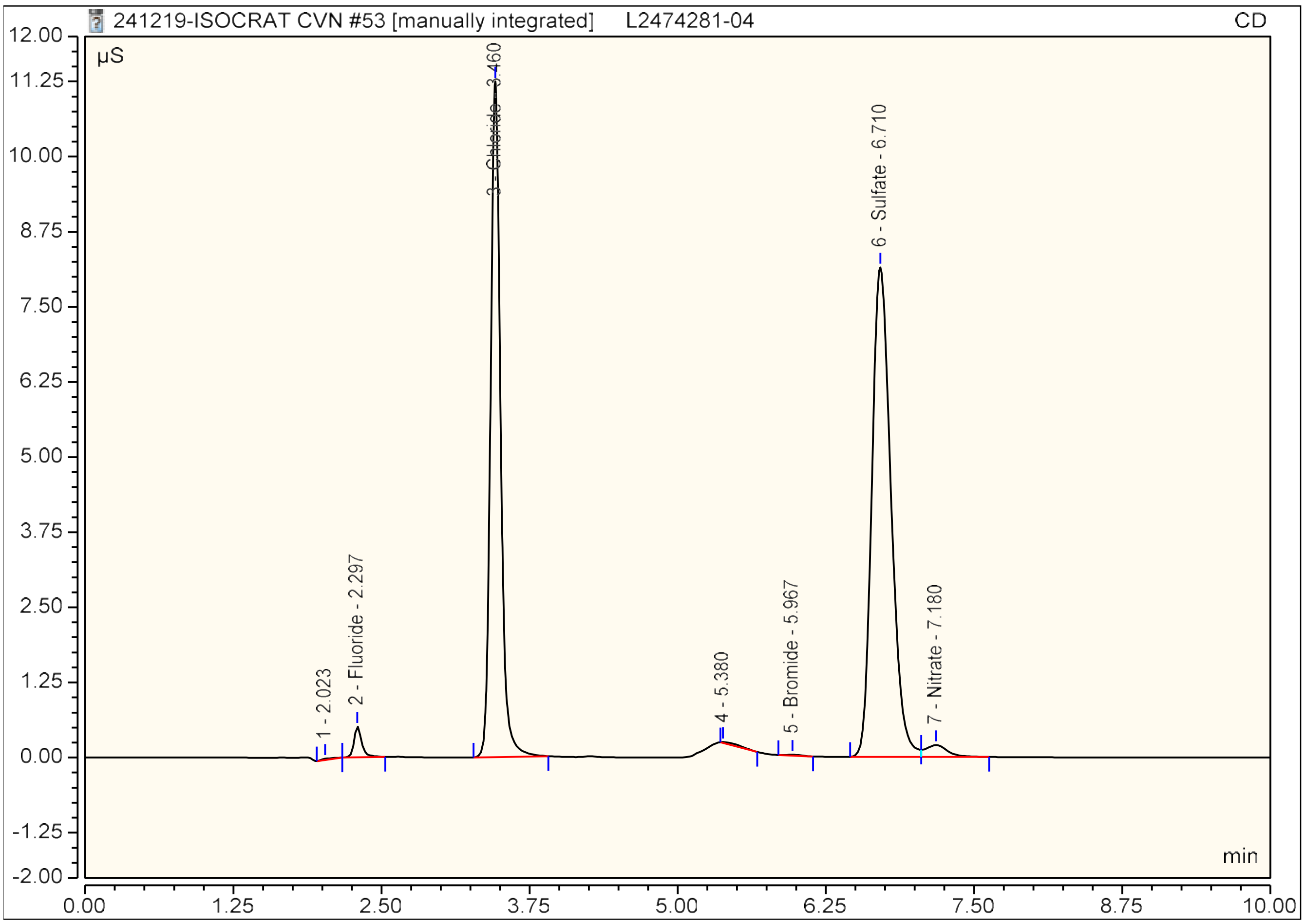
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.055 | 0.715 | 0.1262 |
| 3 | 3.46 | **Chloride** | BMB* | 0.493 | 5.150 | 1.4313 |
| 5 | 6.70 | **Sulfate** | BM * | 1.539 | 8.069 | 5.6123 |
| 6 | 7.17 | **Nitrate** | MB* | 0.021 | 0.102 | 0.0483 |
| | | **TOTAL:** | | 2.11 | 14.04 | 7.22 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474281-04** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 17:08** | *Run Time:* | **10.00** |

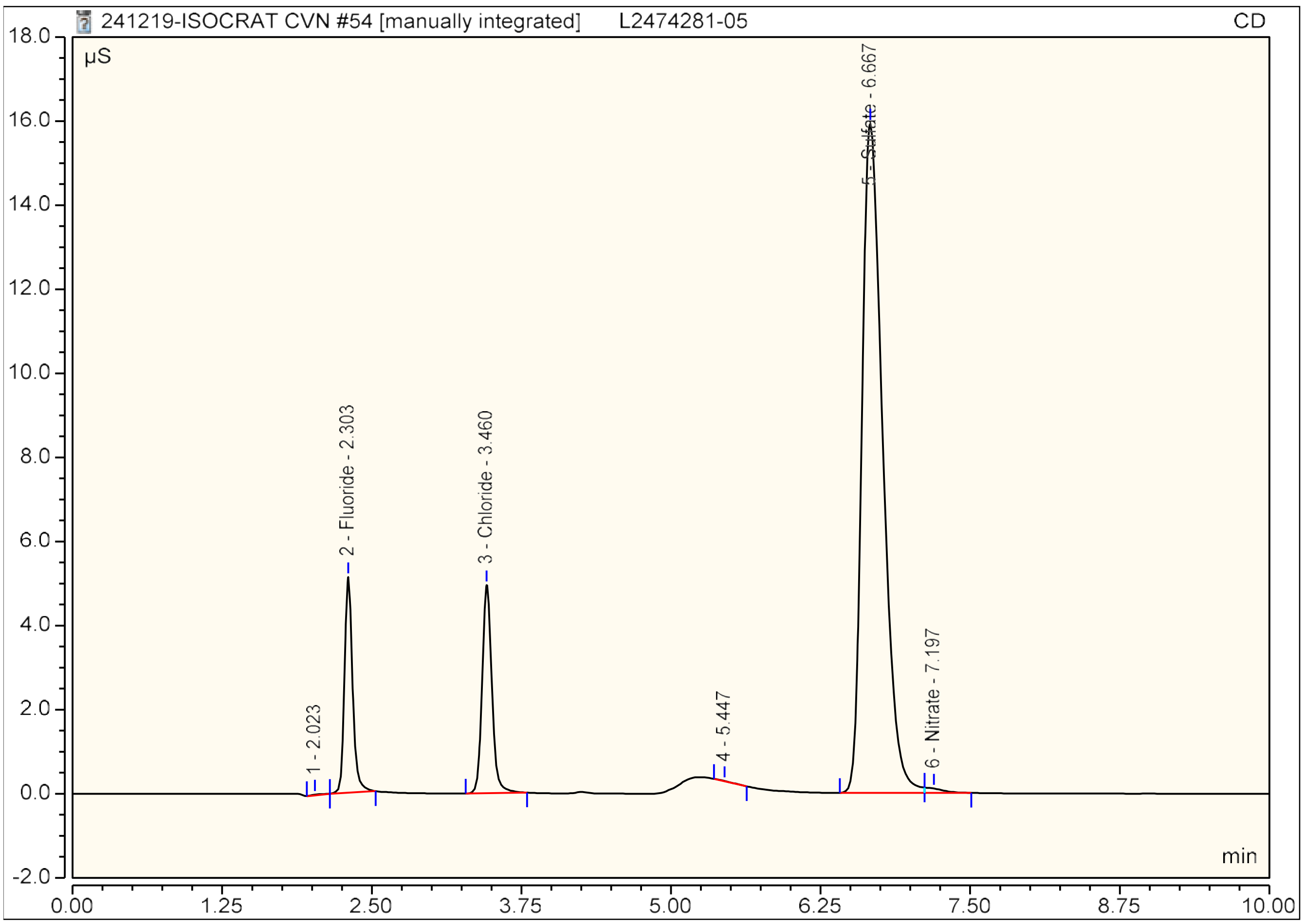
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.040 | 0.511 | 0.0967 |
| 3 | 3.46 | **Chloride** | BMB* | 1.100 | 11.242 | 3.0456 |
| 5 | 5.97 | **Bromide** | BMB | 0.002 | 0.015 | 0.0467 |
| 6 | 6.71 | **Sulfate** | BM * | 1.526 | 8.144 | 5.5647 |
| 7 | 7.18 | **Nitrate** | MB* | 0.043 | 0.198 | 0.0724 |
| | | **TOTAL:** | | 2.71 | 20.11 | 8.83 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474281-05** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 17:20** | *Run Time:* | **10.00** |

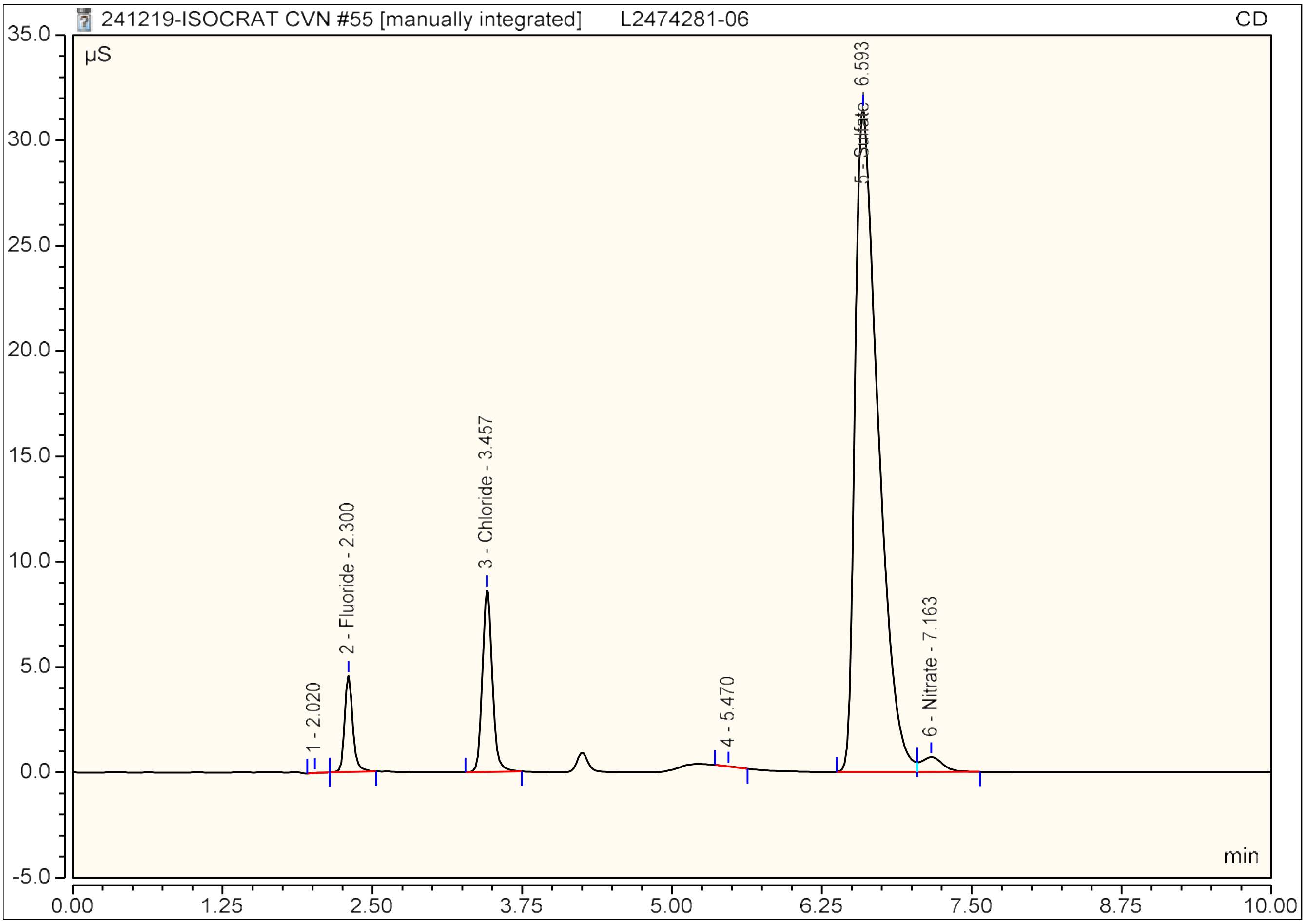
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.399 | 5.127 | 0.7786 |
| 3 | 3.46 | **Chloride** | BMB* | 0.467 | 4.949 | 1.3608 |
| 5 | 6.67 | **Sulfate** | BM * | 3.195 | 15.920 | 11.4334 |
| 6 | 7.20 | **Nitrate** | MB* | 0.019 | 0.103 | 0.0465 |
| | | **TOTAL:** | | 4.08 | 26.10 | 13.62 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474281-06** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 17:32** | *Run Time:* | **10.00** |

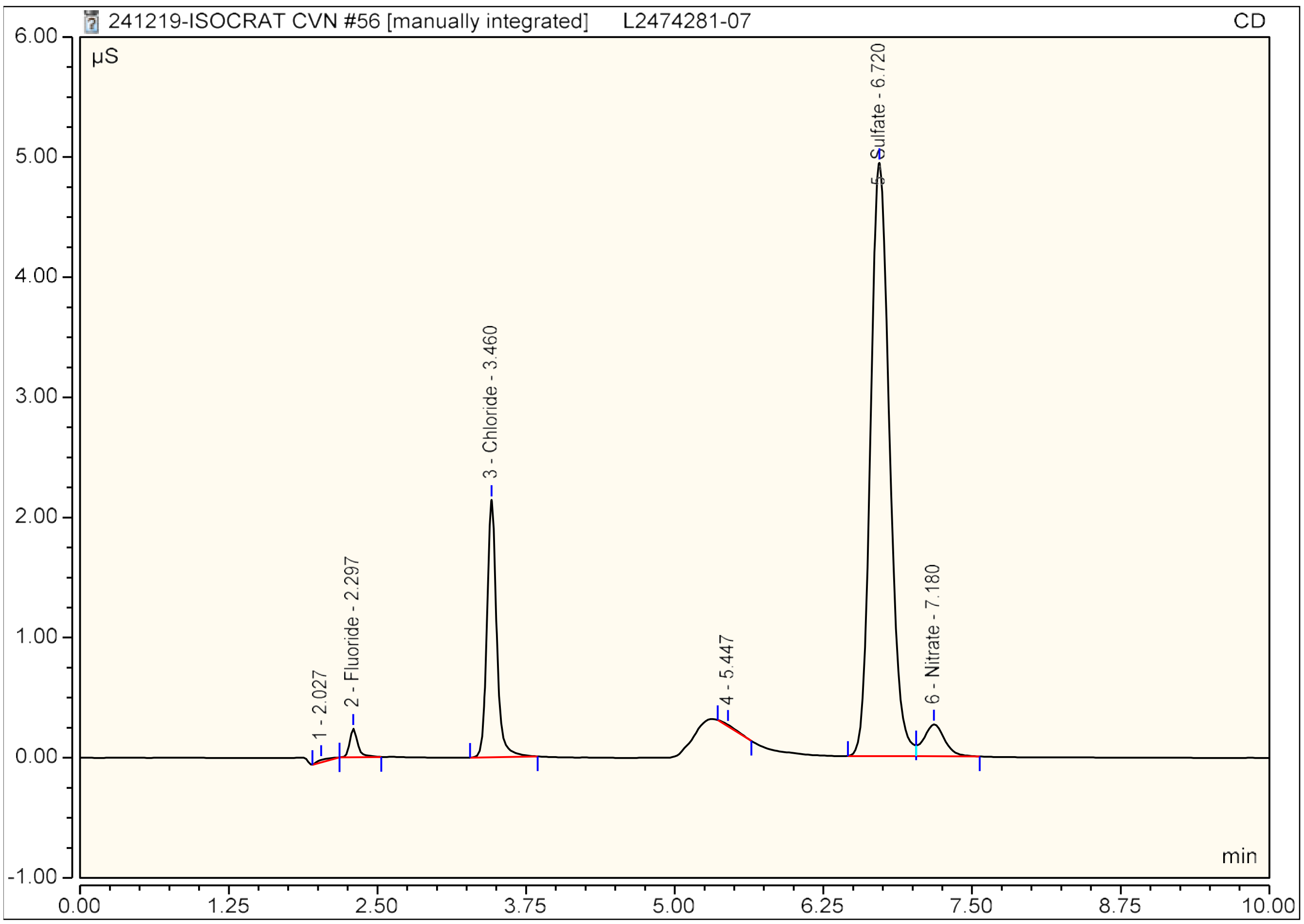
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.356 | 4.565 | 0.6967 |
| 3 | 3.46 | **Chloride** | BMB | 0.821 | 8.628 | 2.3031 |
| 5 | 6.59 | **Sulfate** | BM * | 7.050 | 31.441 | 24.9849 |
| 6 | 7.16 | **Nitrate** | MB* | 0.146 | 0.703 | 0.1868 |
| | | **TOTAL:** | | 8.37 | 45.34 | 28.17 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474281-07** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 17:44** | *Run Time:* | **10.00** |

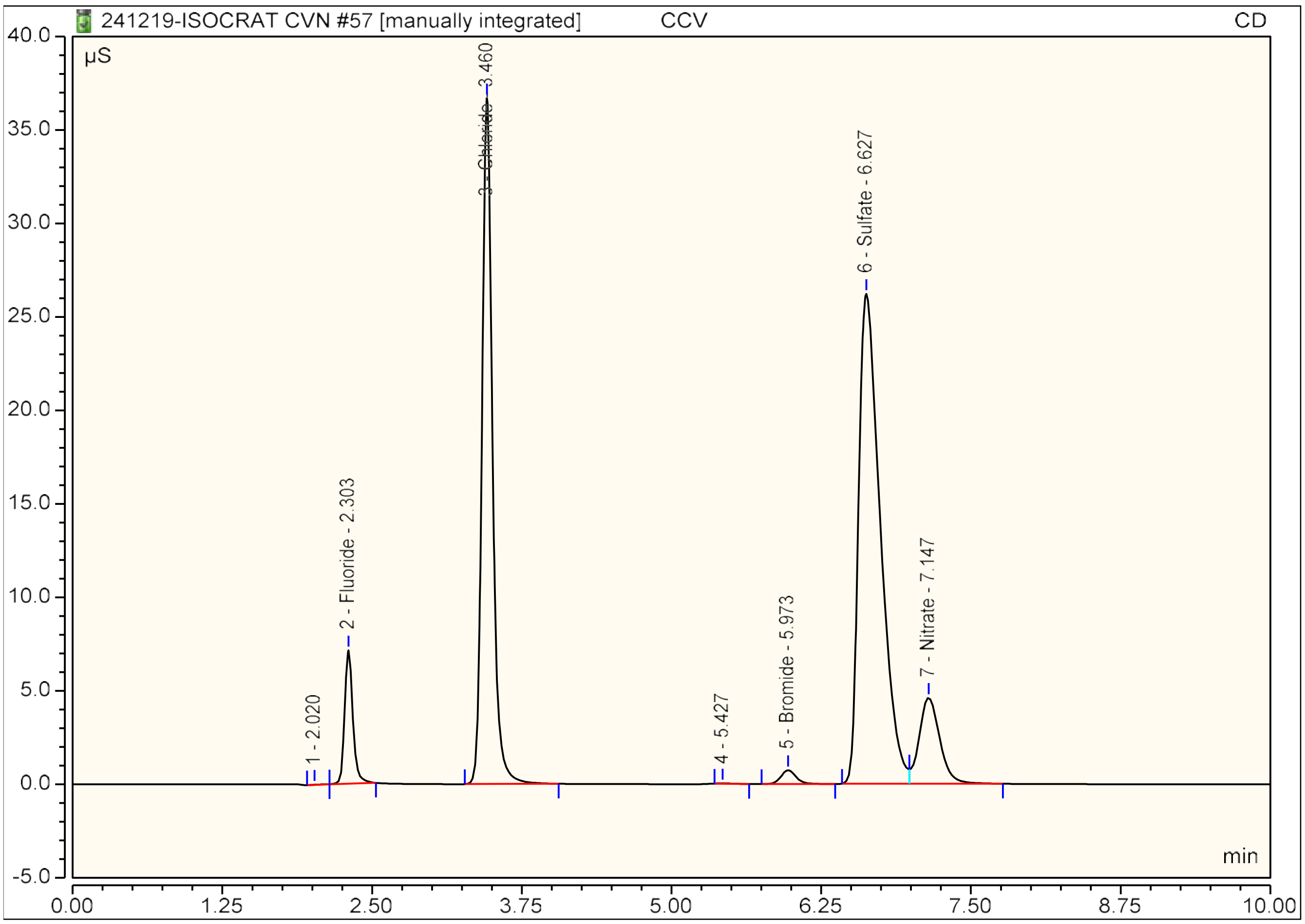
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.019 | 0.238 | 0.0575 |
| 3 | 3.46 | **Chloride** | BMB* | 0.204 | 2.142 | 0.6609 |
| 5 | 6.72 | **Sulfate** | BM * | 0.912 | 4.937 | 3.4078 |
| 6 | 7.18 | **Nitrate** | MB* | 0.054 | 0.266 | 0.0850 |
| | | **TOTAL:** | | 1.19 | 7.58 | 4.21 |



## 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:* | **19-Dec-2024 / 17:56** | *Run Time:* | **10.00** |

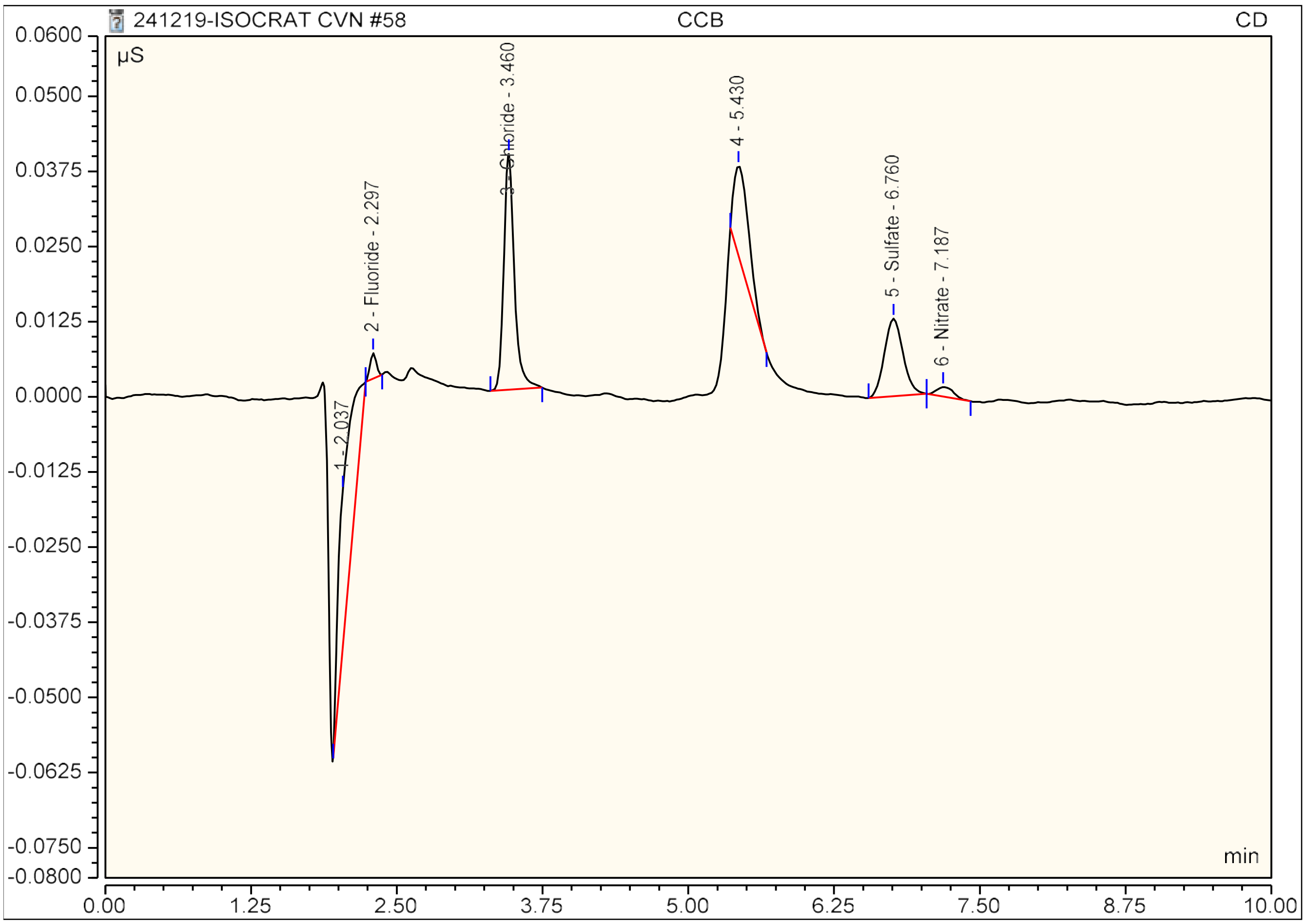
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.564 | 7.130 | 1.0921 |
| 3 | 3.46 | **Chloride** | BMB* | 3.714 | 36.688 | 10.0050 |
| 5 | 5.97 | **Bromide** | BMB | 0.110 | 0.747 | 0.9720 |
| 6 | 6.63 | **Sulfate** | BM * | 5.492 | 26.197 | 19.5083 |
| 7 | 7.15 | **Nitrate** | MB* | 0.913 | 4.593 | 1.0379 |
| | | **TOTAL:** | | 10.79 | 75.35 | 32.62 |



## 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:* | **19-Dec-2024 / 18:08** | *Run Time:* | **10.00** |

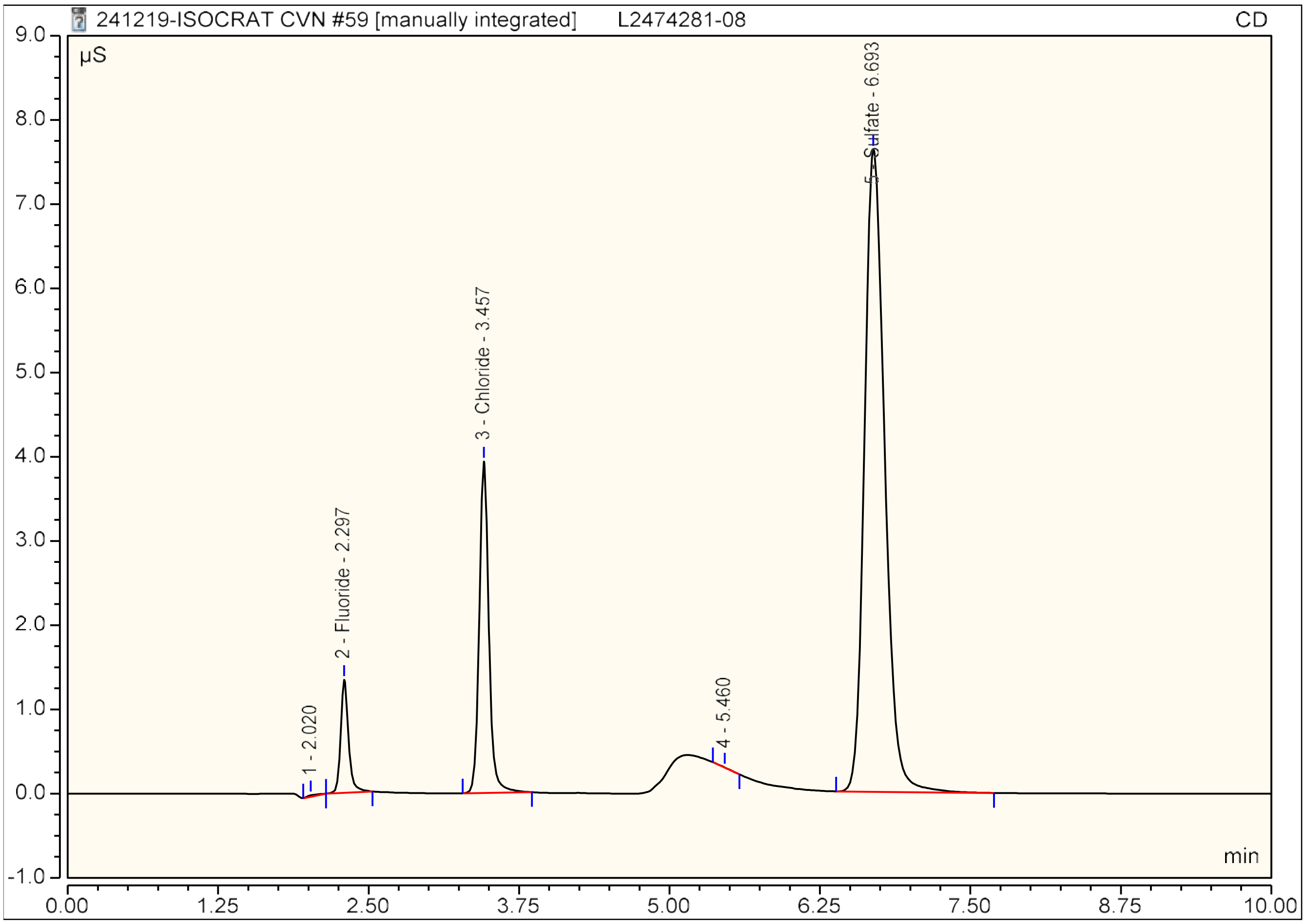
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.000 | 0.004 | 0.0221 |
| 3 | 3.46 | **Chloride** | BMB | 0.004 | 0.039 | 0.1285 |
| 5 | 6.76 | **Sulfate** | BMB | 0.002 | 0.013 | 0.2089 |
| 6 | 7.19 | **Nitrate** | BMB | 0.000 | 0.002 | 0.0255 |
| | | **TOTAL:** | | 0.01 | 0.06 | 0.39 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474281-08** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 18:20** | *Run Time:* | **10.00** |

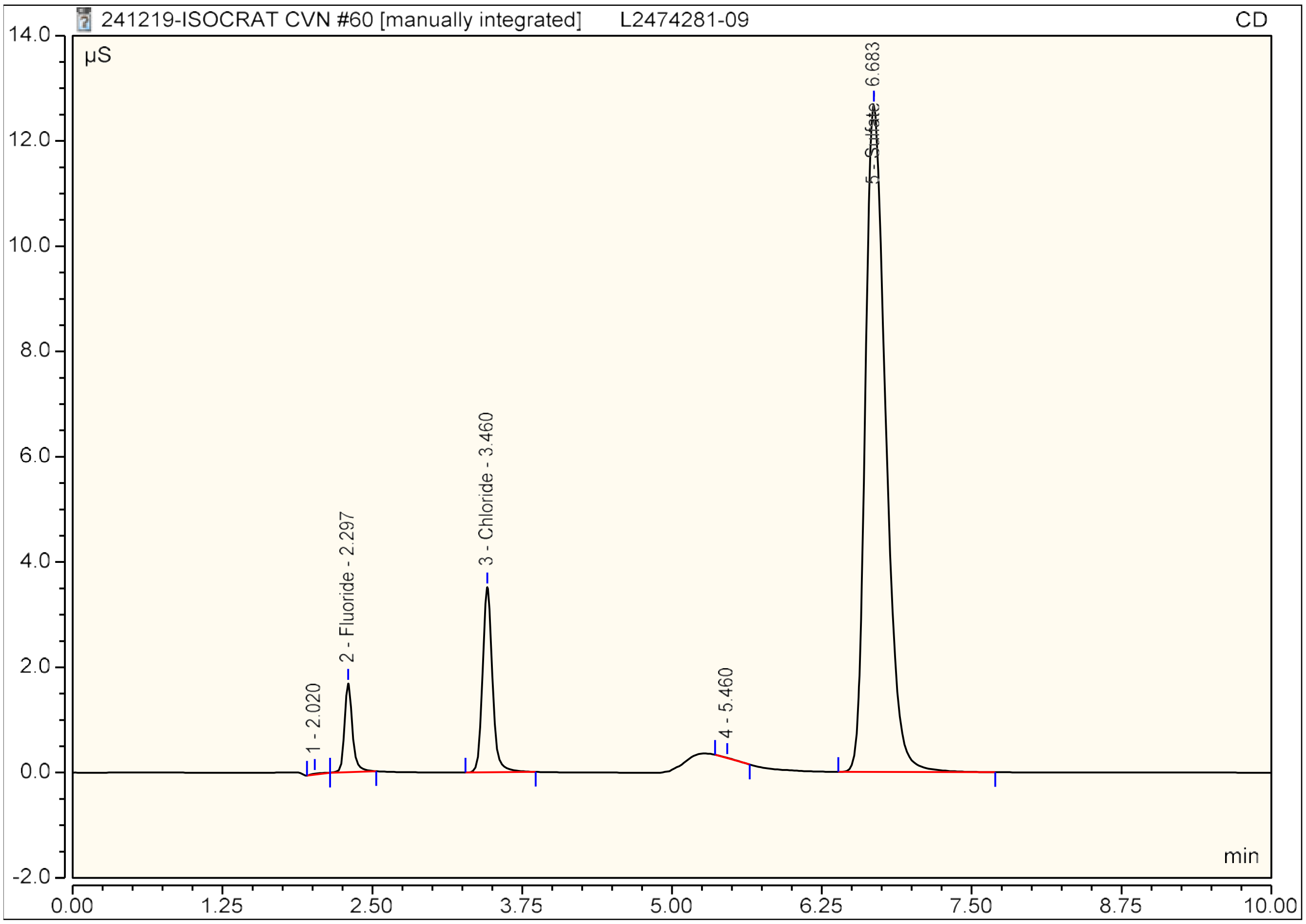
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.101 | 1.341 | 0.2137 |
| 3 | 3.46 | **Chloride** | BMB* | 0.367 | 3.938 | 1.0945 |
| 5 | 6.69 | **Sulfate** | BMB | 1.486 | 7.624 | 5.4242 |
| **TOTAL:** | | | | 1.95 | 12.90 | 6.73 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474281-09** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 18:33** | *Run Time:* | **10.00** |

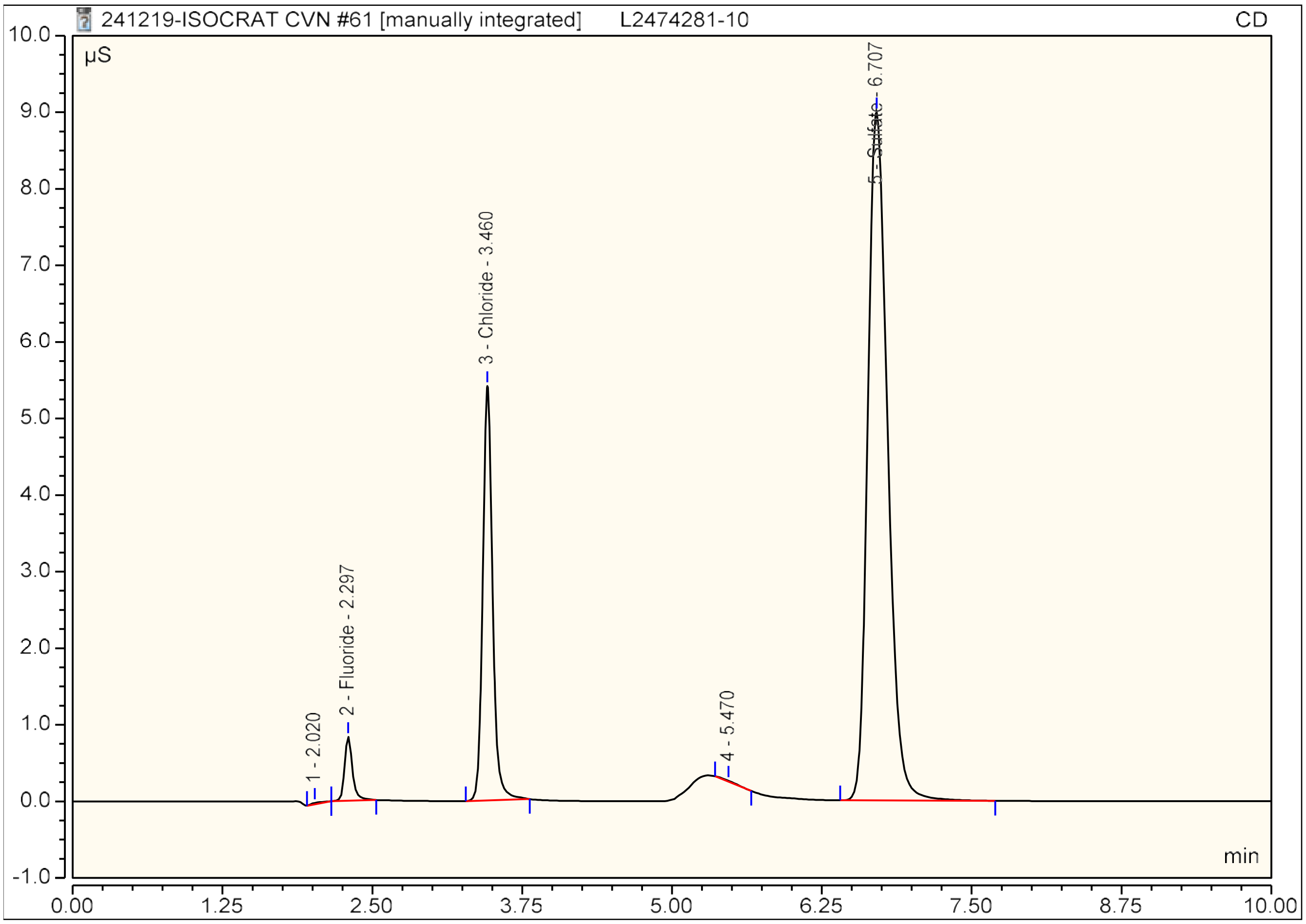
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.127 | 1.682 | 0.2637 |
| 3 | 3.46 | **Chloride** | BMB* | 0.335 | 3.517 | 1.0094 |
| 5 | 6.68 | **Sulfate** | BMB | 2.497 | 12.663 | 8.9775 |
| | | **TOTAL:** | | 2.96 | 17.86 | 10.25 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474281-10** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 18:45** | *Run Time:* | **10.00** |

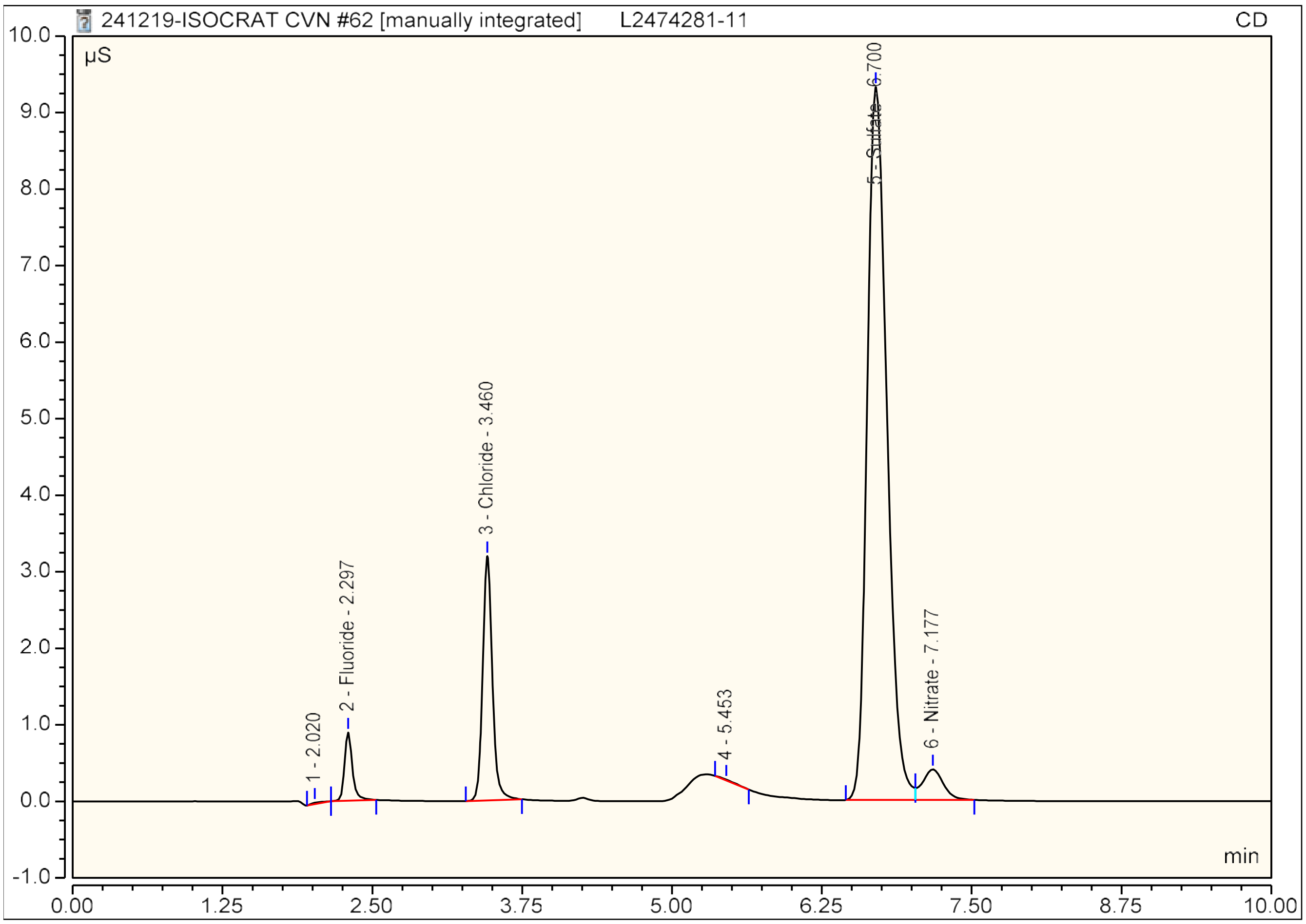
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.064 | 0.835 | 0.1430 |
| 3 | 3.46 | **Chloride** | BMB* | 0.516 | 5.411 | 1.4902 |
| 5 | 6.71 | **Sulfate** | BMB | 1.723 | 8.989 | 6.2577 |
| | | **TOTAL:** | | 2.30 | 15.24 | 7.89 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474281-11** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 18:57** | *Run Time:* | **10.00** |

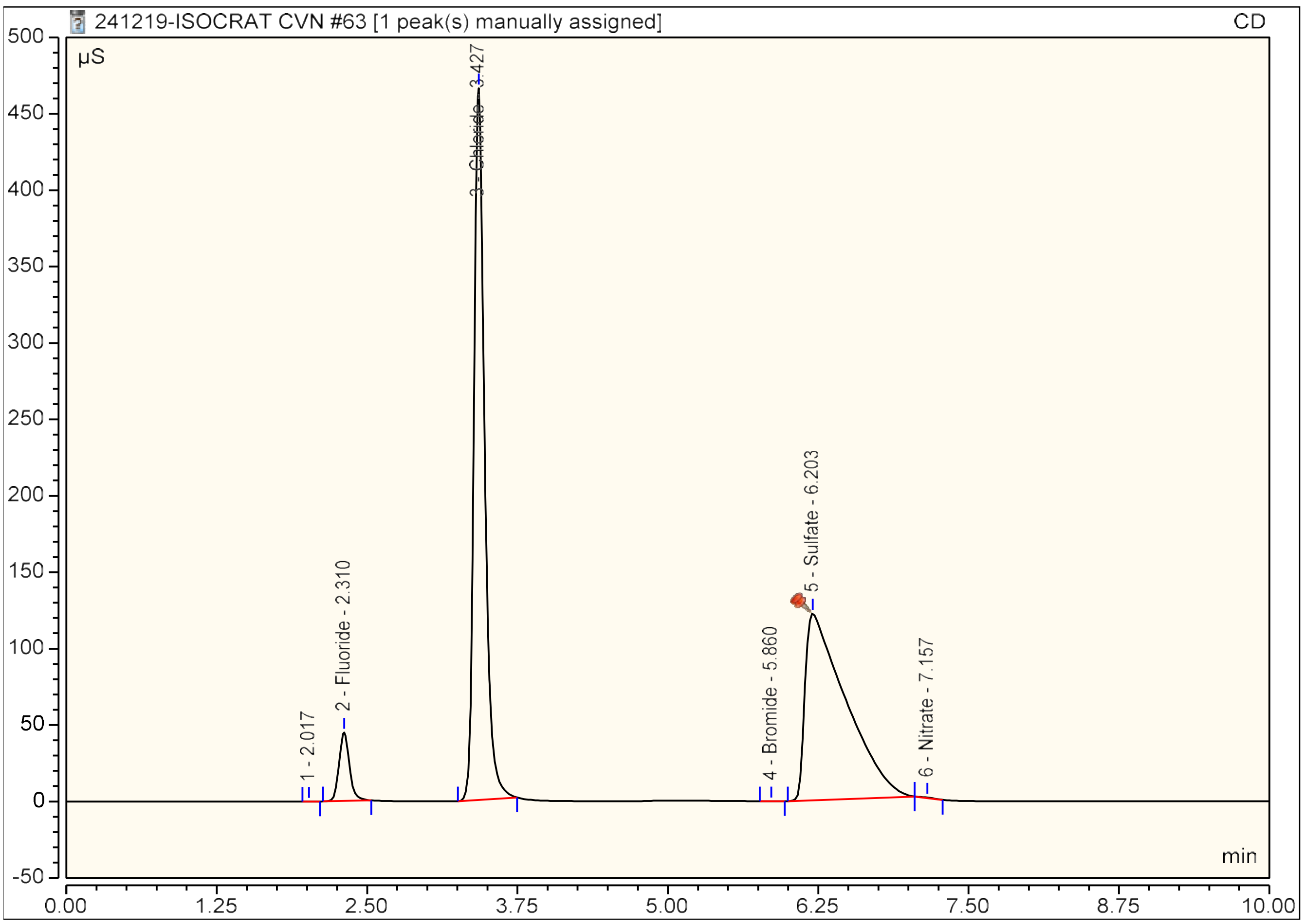
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.068 | 0.892 | 0.1504 |
| 3 | 3.46 | **Chloride** | BMB | 0.298 | 3.190 | 0.9123 |
| 5 | 6.70 | **Sulfate** | BM * | 1.775 | 9.316 | 6.4394 |
| 6 | 7.18 | **Nitrate** | MB* | 0.081 | 0.399 | 0.1147 |
| | | **TOTAL:** | | 2.22 | 13.80 | 7.62 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **XL2473454-02 F SO4** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 19:09** | *Run Time:* | **10.00** |

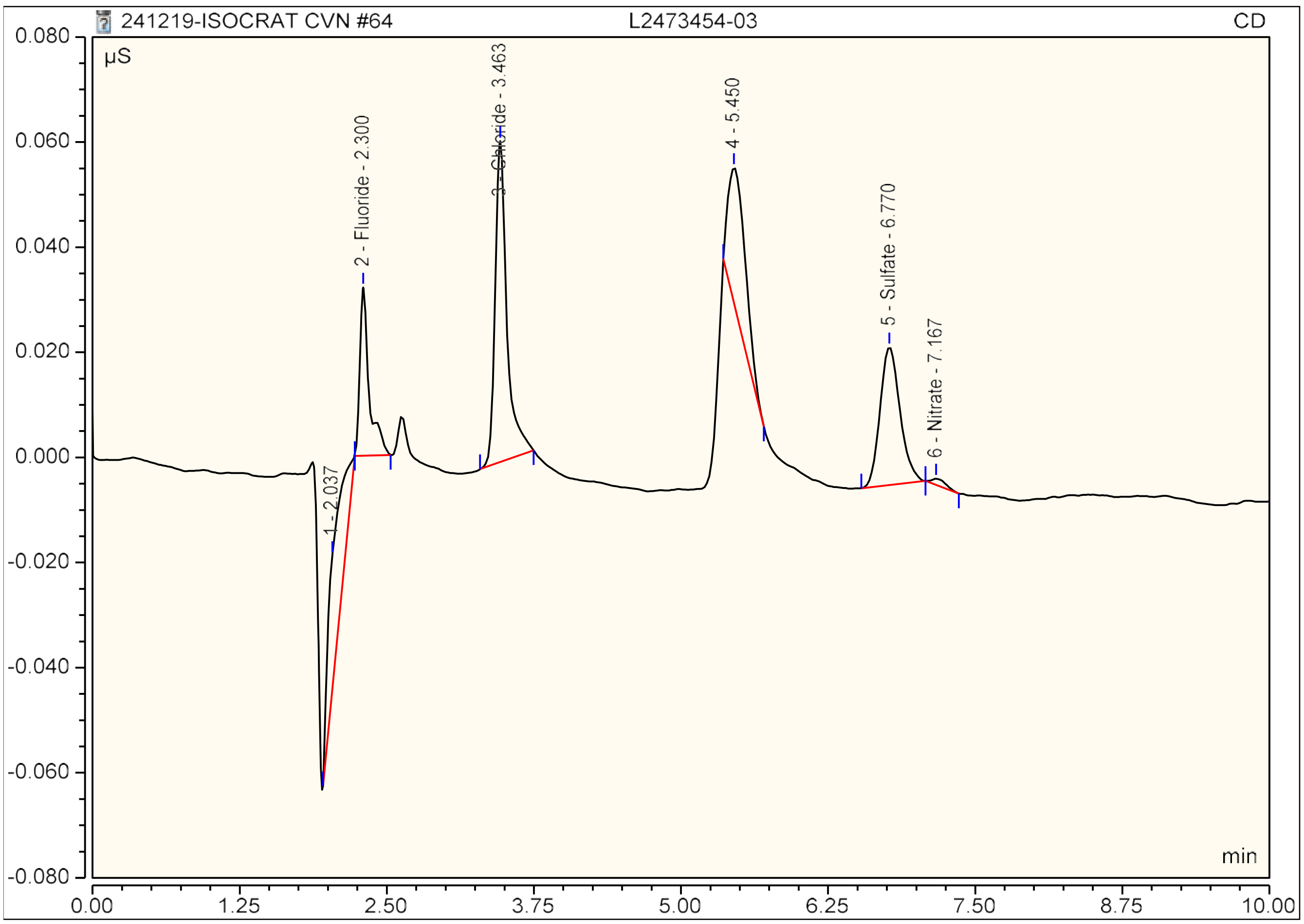
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.31 | **Fluoride** | BMB | 4.498 | 44.799 | 8.5637 |
| 3 | 3.43 | **Chloride** | BMB | 47.662 | 465.736 | 127.0114 |
| 4 | 5.86 | **Bromide** | BMB | 0.003 | 0.025 | 0.0536 |
| 5 | 6.20 | **Sulfate** | BMB^ | 47.826 | 122.302 | 168.3401 |
| 6 | 7.16 | **Nitrate** | BMB | 0.042 | 0.362 | 0.0721 |
| | | **TOTAL:** | | 100.03 | 633.22 | 304.04 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2473454-03** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 19:21** | *Run Time:* | **10.00** |

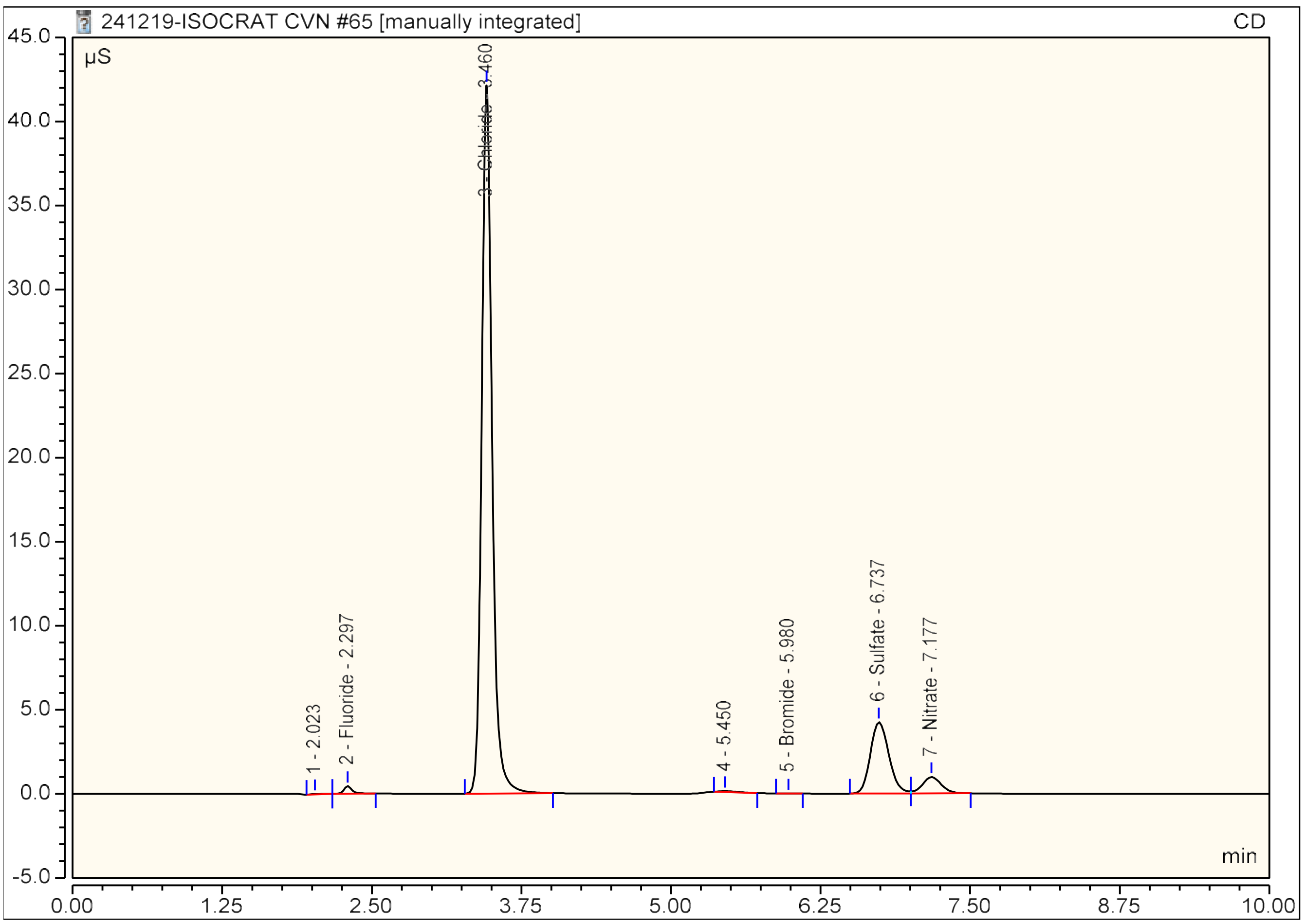
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.003 | 0.032 | 0.0272 |
| 3 | 3.46 | **Chloride** | BMB | 0.007 | 0.061 | 0.1363 |
| 5 | 6.77 | **Sulfate** | BMB | 0.005 | 0.026 | 0.2186 |
| 6 | 7.17 | **Nitrate** | BMB | 0.000 | 0.001 | 0.0254 |
| | | **TOTAL:** | | 0.02 | 0.12 | 0.41 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474278-01 SO4** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 19:33** | *Run Time:* | **10.00** |

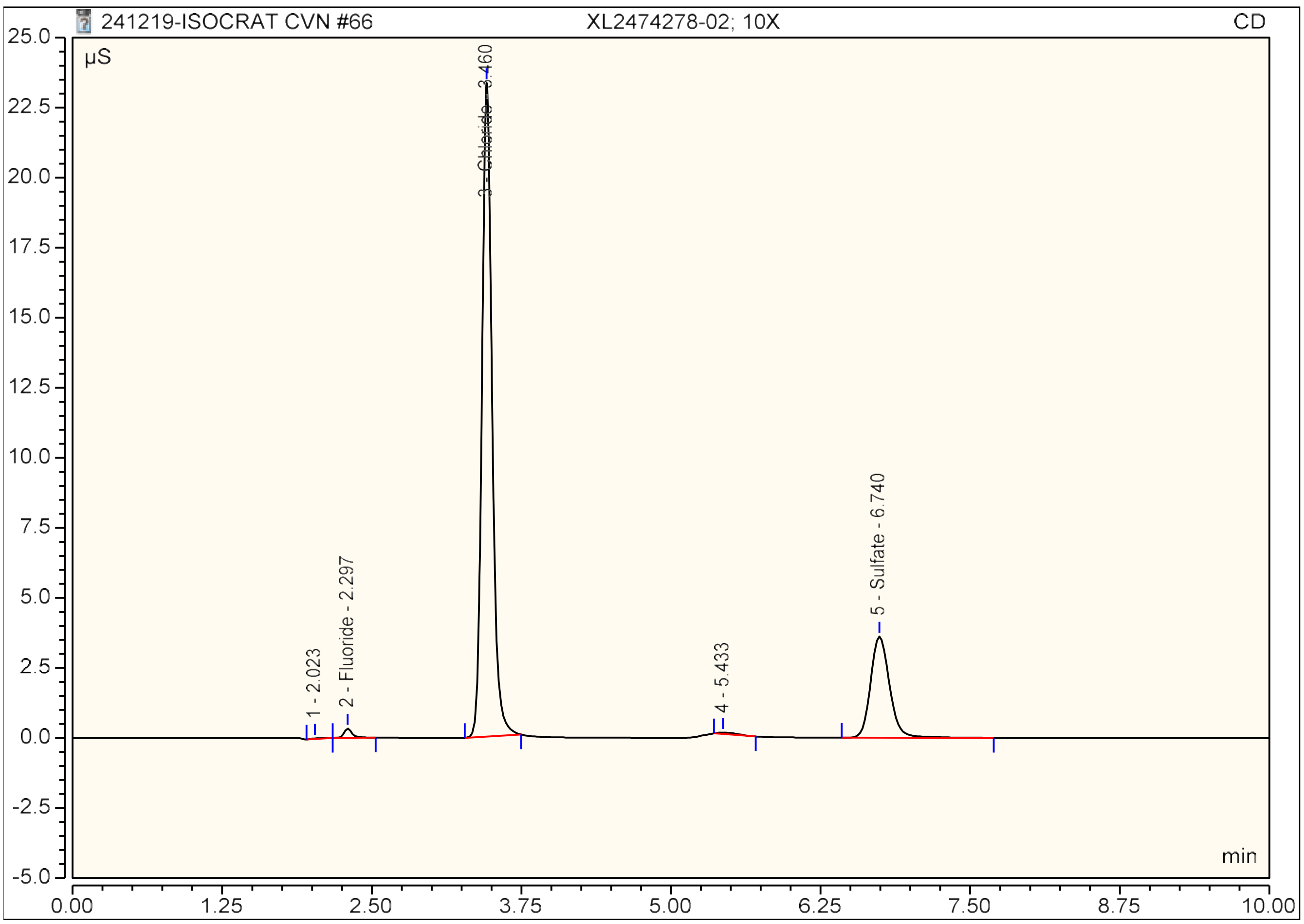
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.035 | 0.451 | 0.0888 |
| 3 | 3.46 | **Chloride** | BMB* | 4.251 | 42.137 | 11.4363 |
| 5 | 5.98 | **Bromide** | BMB | 0.000 | 0.002 | 0.0314 |
| 6 | 6.74 | **Sulfate** | BM * | 0.762 | 4.243 | 2.8796 |
| 7 | 7.18 | **Nitrate** | MB* | 0.180 | 0.974 | 0.2251 |
| | | **TOTAL:** | | 5.23 | 47.81 | 14.66 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **XL2474278-02; 10X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 19:45** | *Run Time:* | **10.00** |

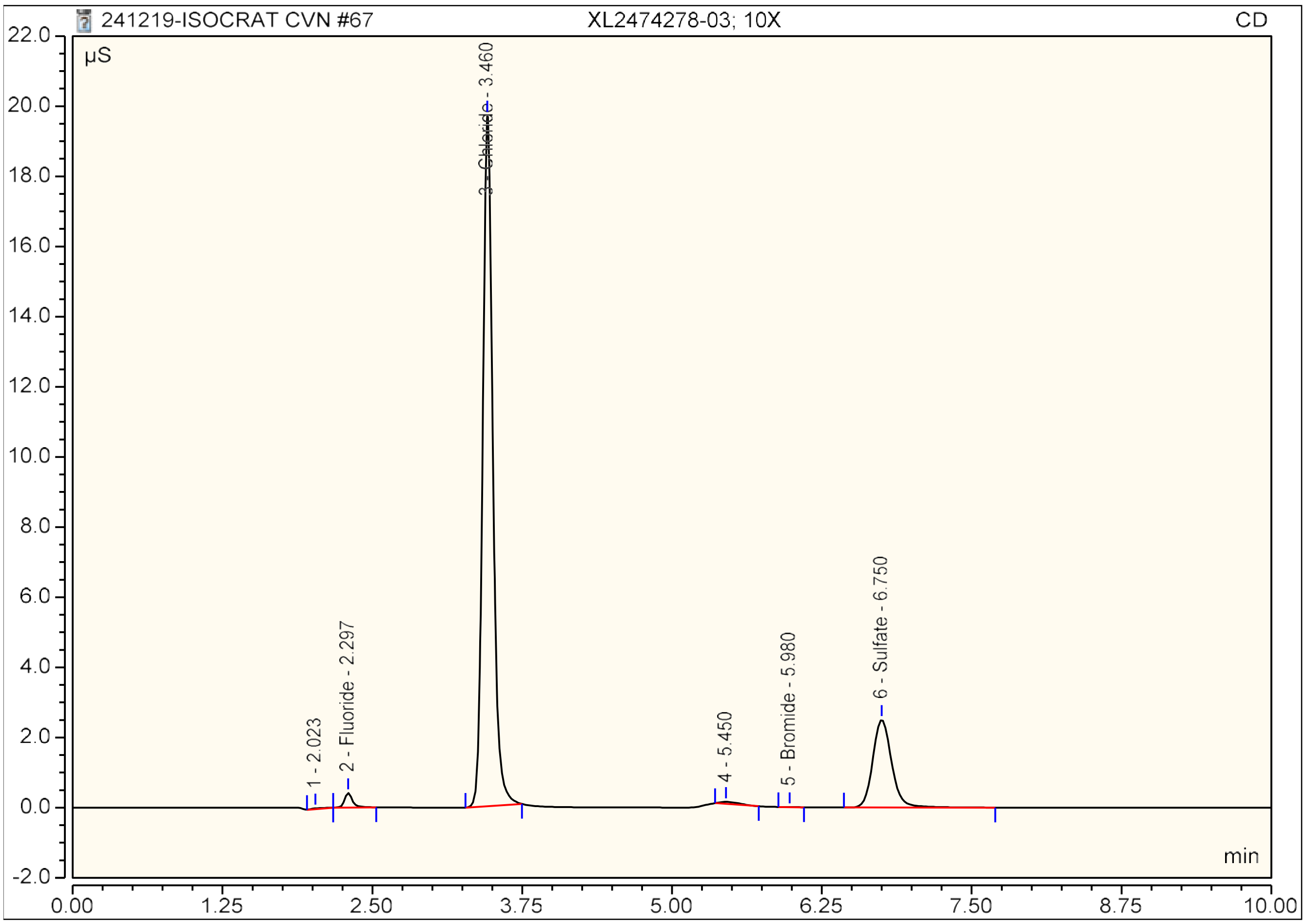
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.026 | 0.331 | 0.7094 |
| 3 | 3.46 | **Chloride** | BMB | 2.294 | 23.331 | 62.2527 |
| 5 | 6.74 | **Sulfate** | BMB | 0.663 | 3.614 | 25.3255 |
| | | **TOTAL:** | | 2.98 | 27.28 | 88.29 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **XL2474278-03; 10X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 19:57** | *Run Time:* | **10.00** |

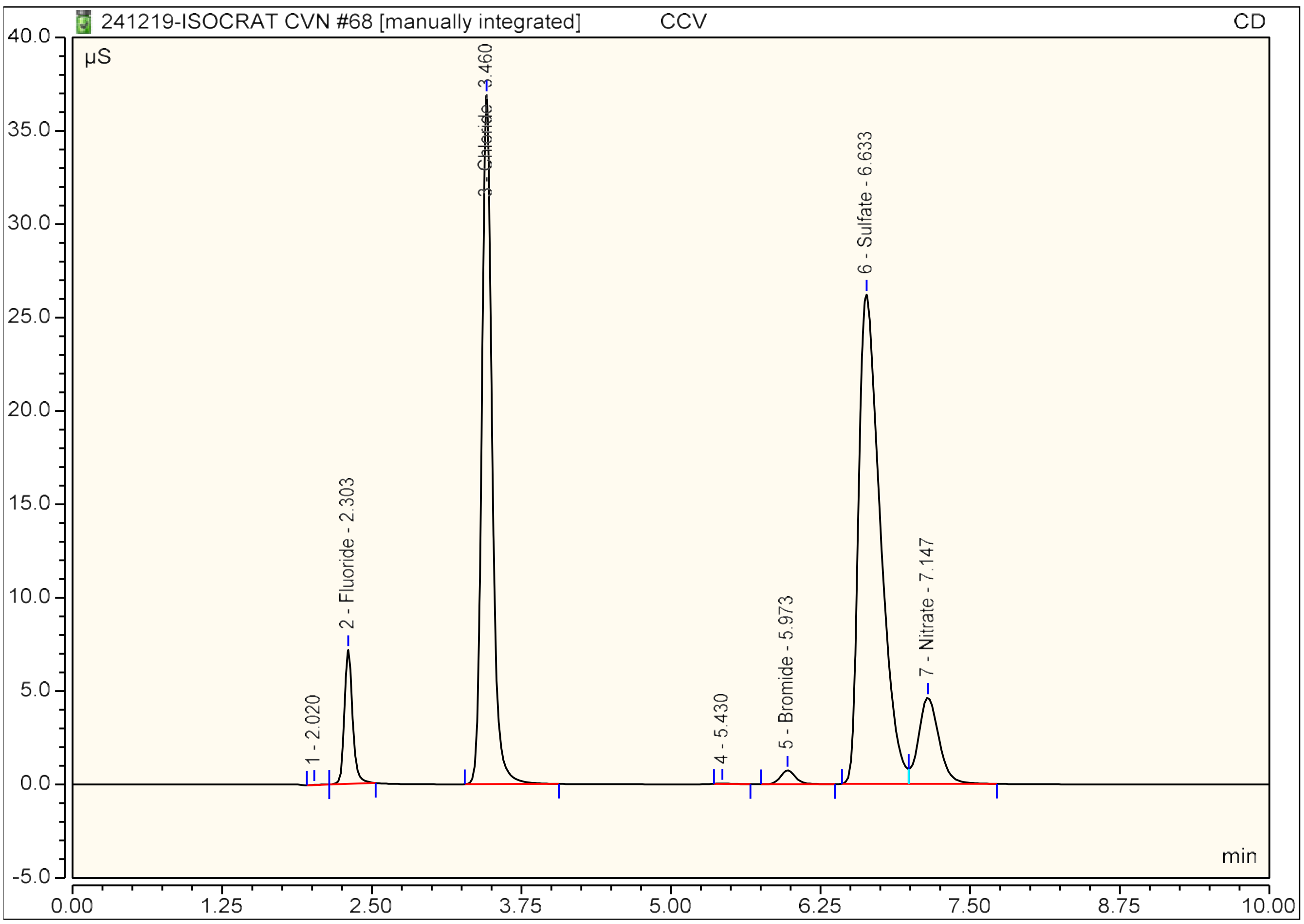
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.032 | 0.413 | 0.8230 |
| 3 | 3.46 | **Chloride** | BMB | 1.931 | 19.691 | 52.5904 |
| 5 | 5.98 | **Bromide** | BMB | 0.000 | 0.002 | 0.3105 |
| 6 | 6.75 | **Sulfate** | BMB | 0.457 | 2.505 | 18.0578 |
| | | **TOTAL:** | | 2.42 | 22.61 | 71.78 |



## 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:* | **19-Dec-2024 / 20:09** | *Run Time:* | **10.00** |

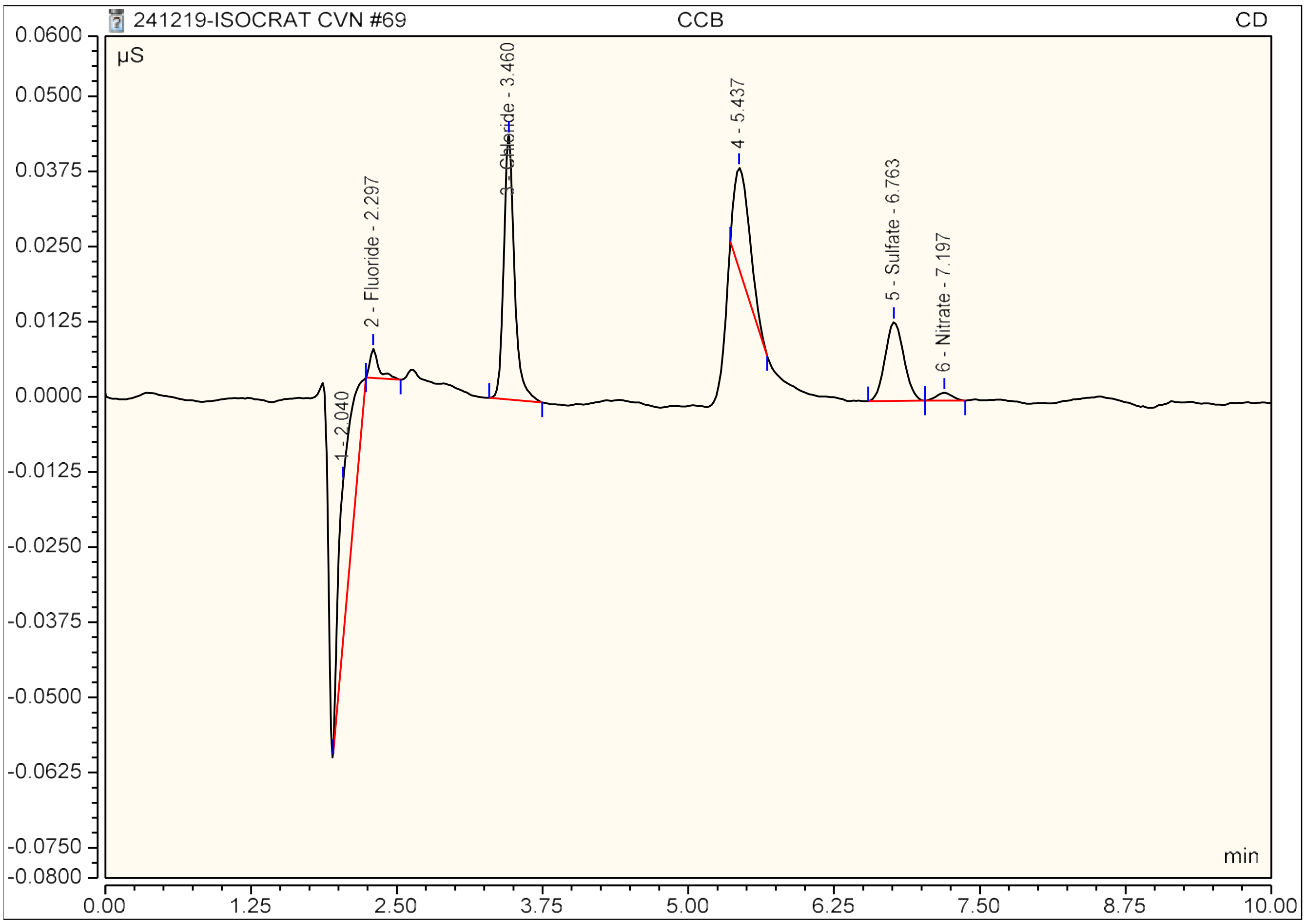
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.563 | 7.166 | 1.0899 |
| 3 | 3.46 | **Chloride** | BMB* | 3.717 | 36.897 | 10.0137 |
| 5 | 5.97 | **Bromide** | BMB | 0.109 | 0.745 | 0.9662 |
| 6 | 6.63 | **Sulfate** | BM * | 5.491 | 26.194 | 19.5054 |
| 7 | 7.15 | **Nitrate** | MB* | 0.913 | 4.608 | 1.0380 |
| | | **TOTAL:** | | 10.79 | 75.61 | 32.61 |



## 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:* | **19-Dec-2024 / 20:21** | *Run Time:* | **10.00** |

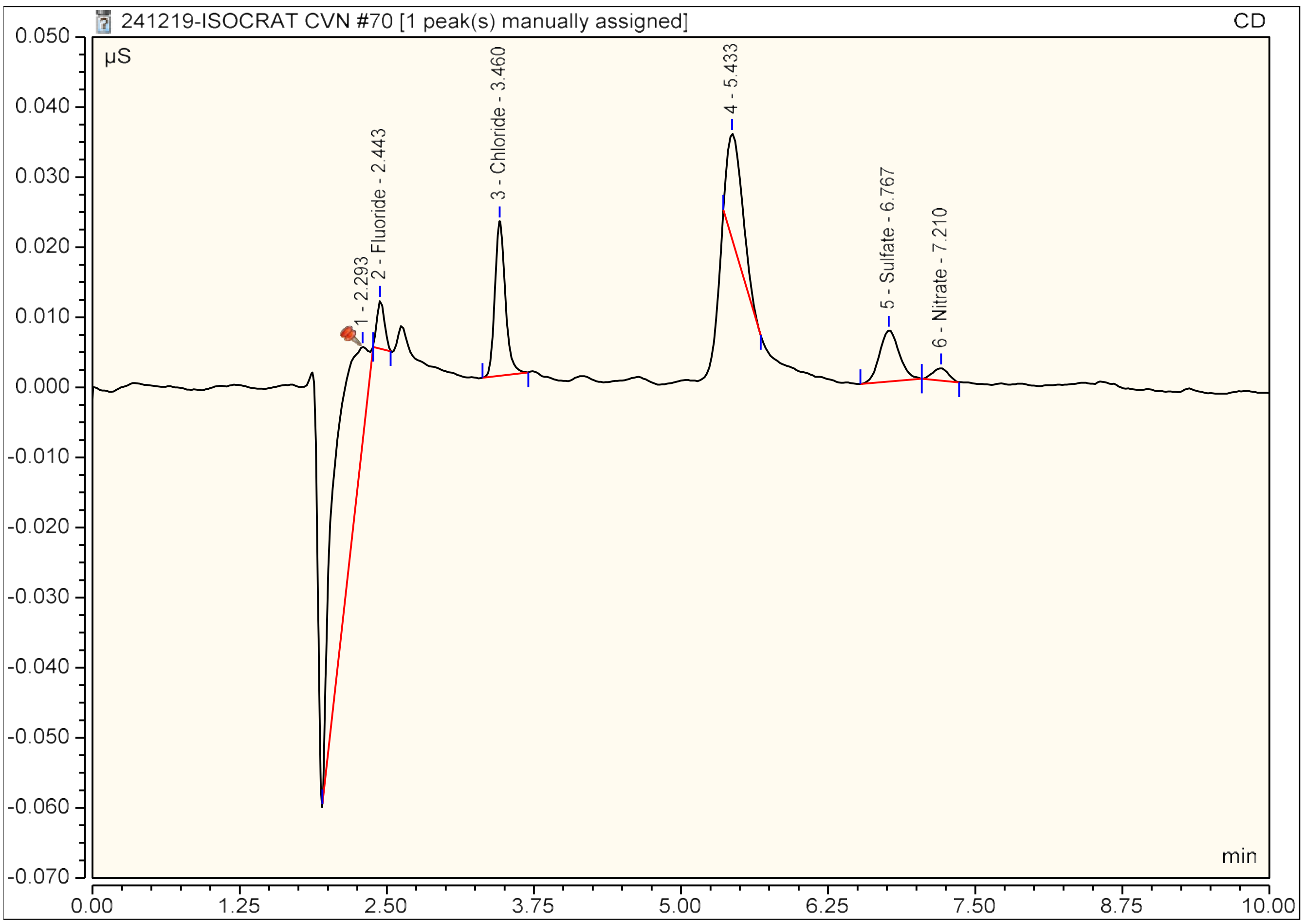
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.000 | 0.005 | 0.0224 |
| 3 | 3.46 | **Chloride** | BMB | 0.005 | 0.044 | 0.1299 |
| 5 | 6.76 | **Sulfate** | BMB | 0.002 | 0.013 | 0.2090 |
| 6 | 7.20 | **Nitrate** | BMB | 0.000 | 0.001 | 0.0255 |
| | | **TOTAL:** | | 0.01 | 0.06 | 0.39 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2473651-01 F; 50X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **50.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 20:33** | *Run Time:* | **10.00** |

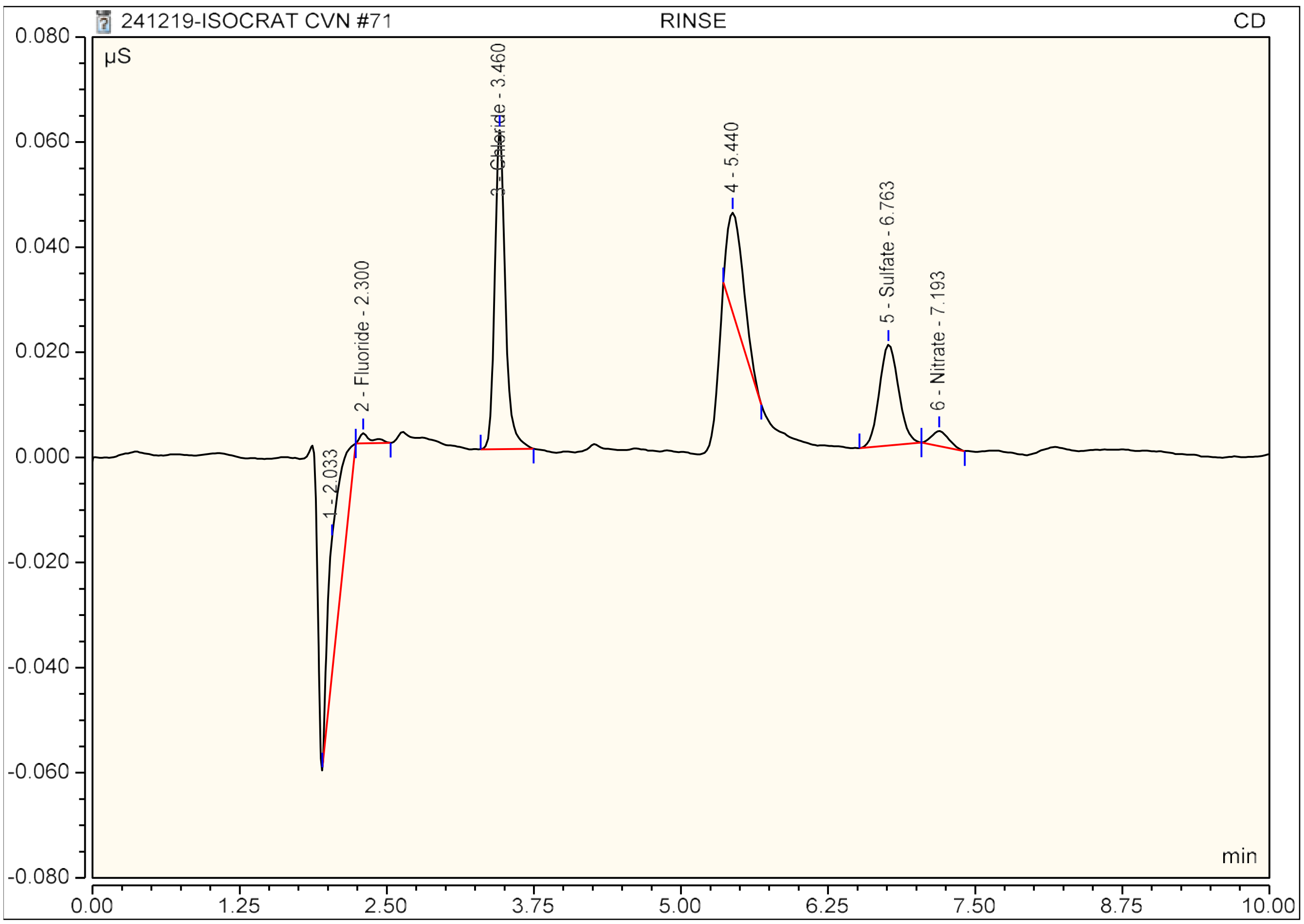
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.44 | **Fluoride** | BMB | 0.001 | 0.007 | 1.1295 |
| 3 | 3.46 | **Chloride** | BMB | 0.002 | 0.022 | 6.1816 |
| 5 | 6.77 | **Sulfate** | BMB | 0.001 | 0.007 | 10.2703 |
| 6 | 7.21 | **Nitrate** | BMB | 0.000 | 0.002 | 1.2763 |
| | | **TOTAL:** | | 0.00 | 0.04 | 18.86 |



## 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:* | **19-Dec-2024 / 20:46** | *Run Time:* | **10.00** |

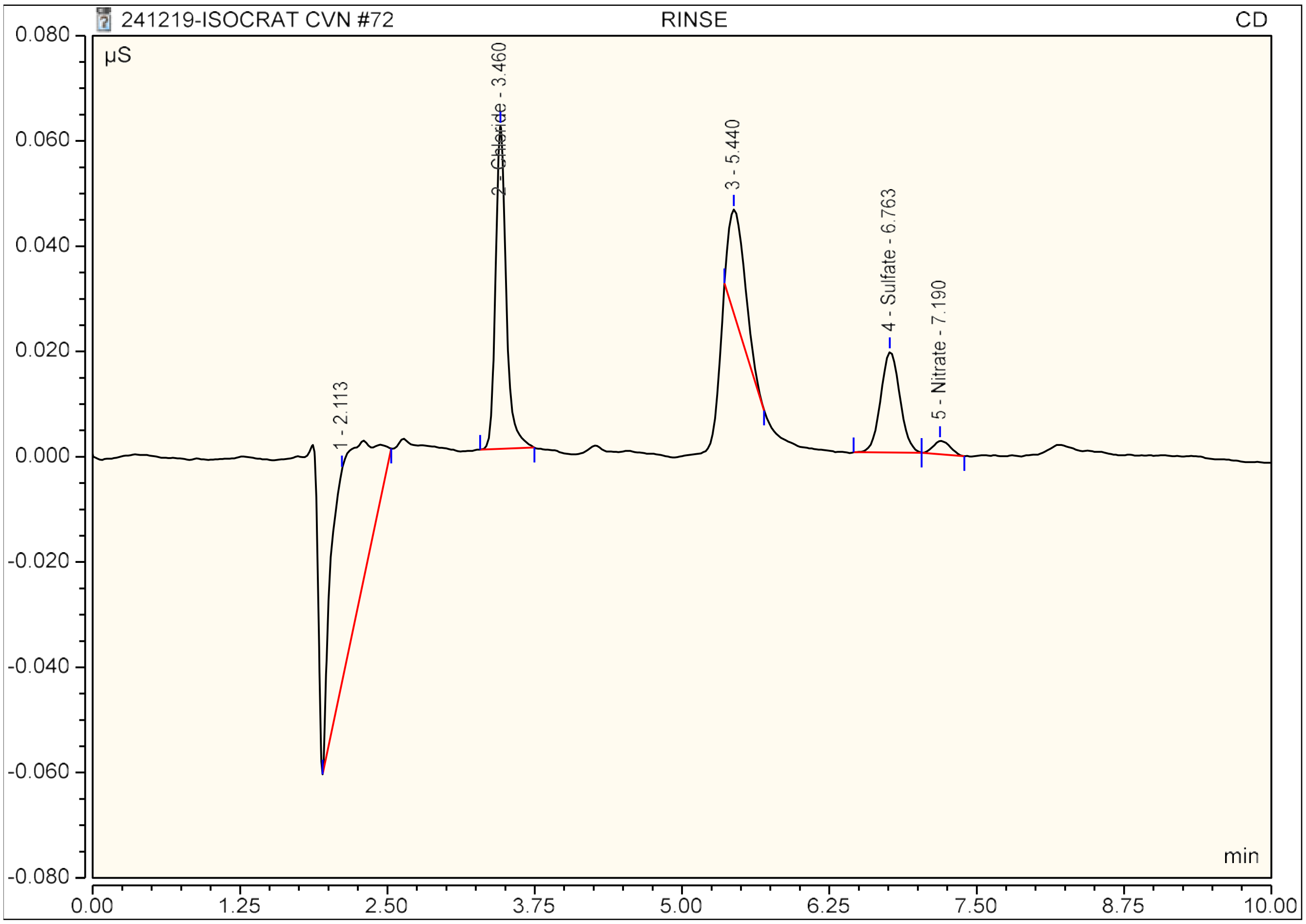
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.000 | 0.002 | 0.0220 |
| 3 | 3.46 | **Chloride** | BMB | 0.006 | 0.061 | 0.1344 |
| 5 | 6.76 | **Sulfate** | BMB | 0.004 | 0.019 | 0.2132 |
| 6 | 7.19 | **Nitrate** | BMB | 0.000 | 0.003 | 0.0258 |
| | | **TOTAL:** | | 0.01 | 0.08 | 0.40 |



## 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:* | **19-Dec-2024 / 20:58** | *Run Time:* | **10.00** |

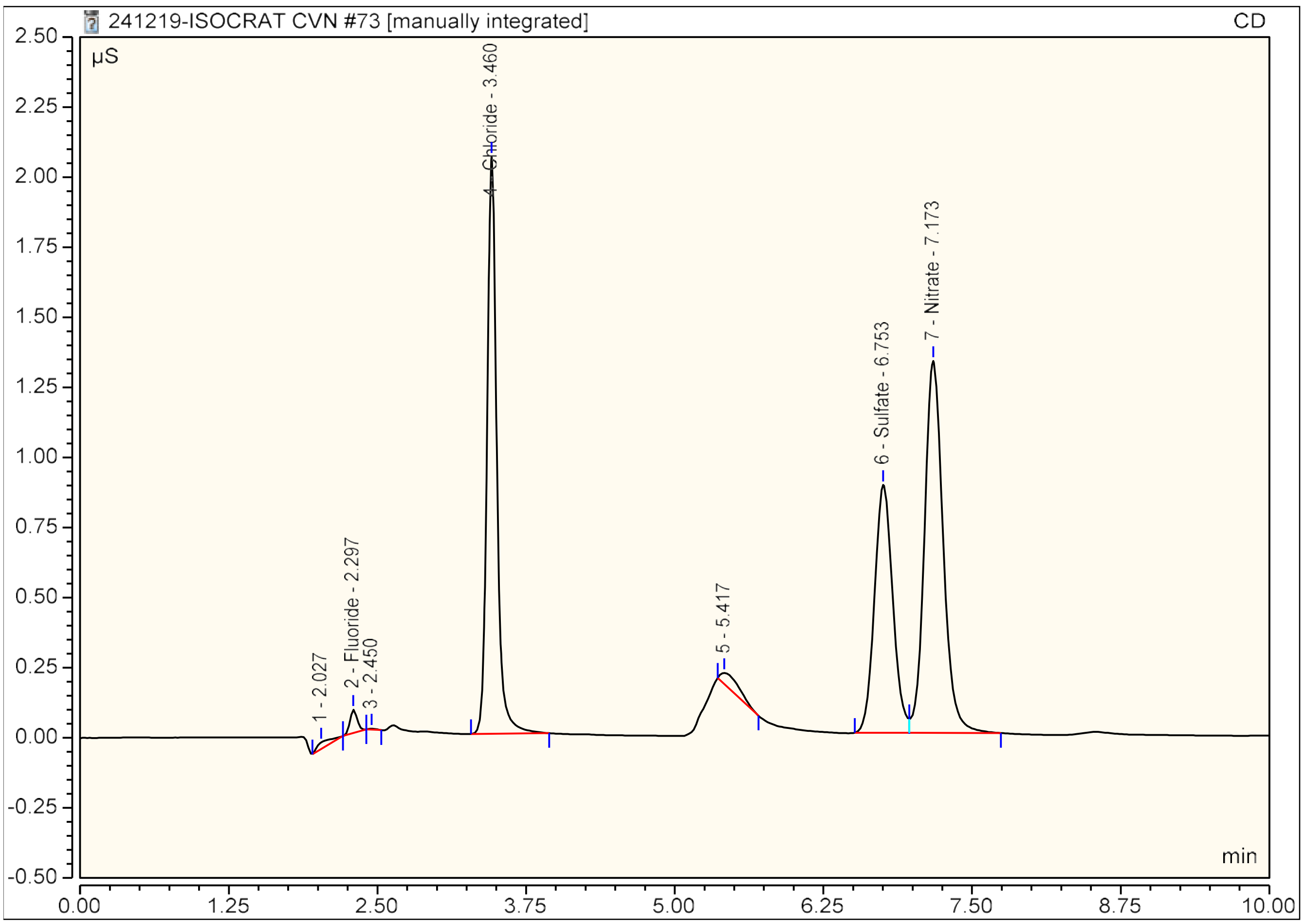
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 3.46 | **Chloride** | BMB | 0.006 | 0.061 | 0.1347 |
| 4 | 6.76 | **Sulfate** | BMB | 0.004 | 0.019 | 0.2131 |
| 5 | 7.19 | **Nitrate** | BMB | 0.000 | 0.003 | 0.0257 |
| | | **TOTAL:** | | 0.01 | 0.08 | 0.37 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474291-01 F CL SO4 BR** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 21:10** | *Run Time:* | **10.00** |

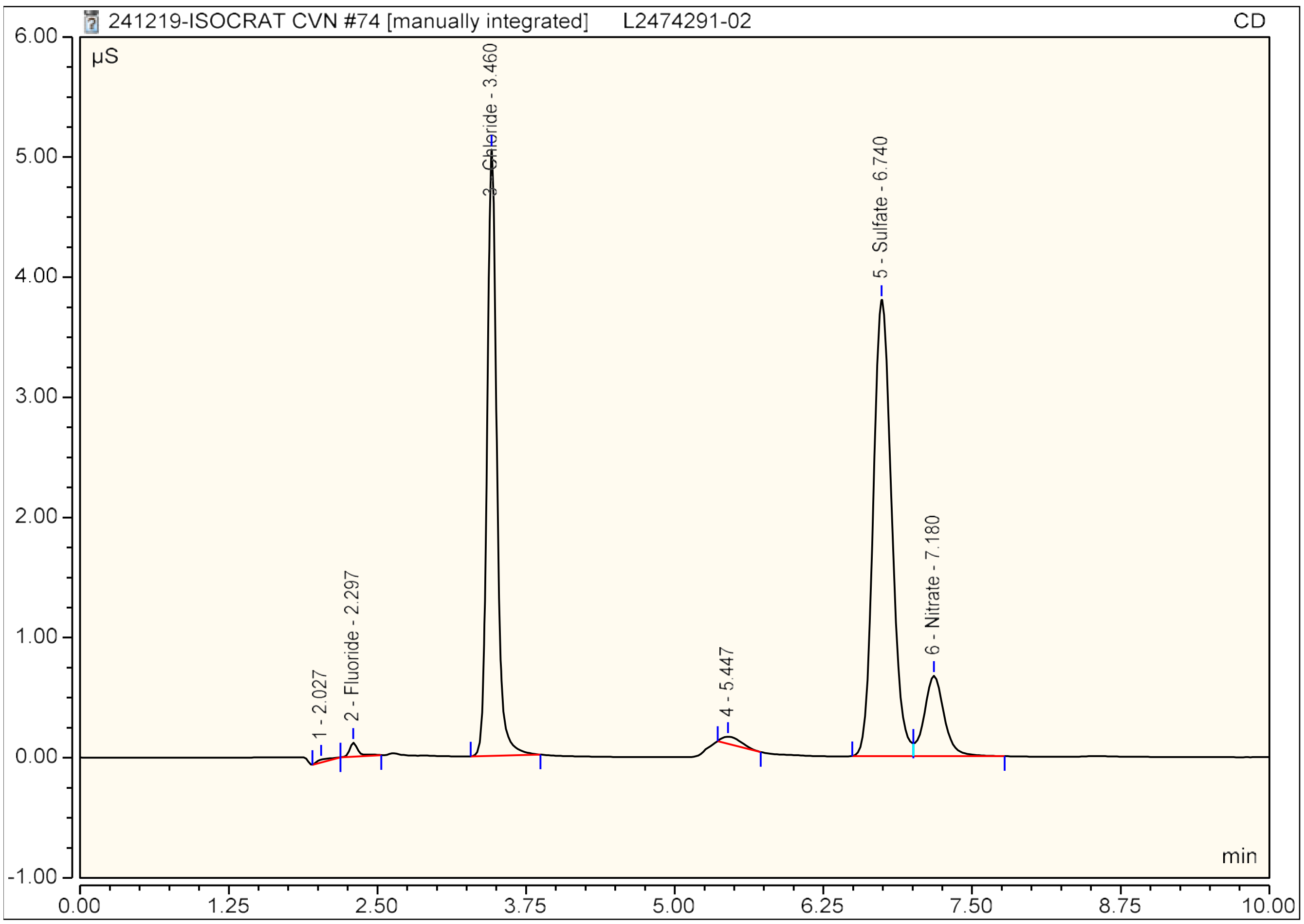
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.006 | 0.084 | 0.0327 |
| 4 | 3.46 | **Chloride** | BMB* | 0.196 | 2.059 | 0.6402 |
| 6 | 6.75 | **Sulfate** | BM * | 0.158 | 0.884 | 0.7545 |
| 7 | 7.17 | **Nitrate** | MB* | 0.242 | 1.327 | 0.2936 |
| | | **TOTAL:** | | 0.60 | 4.35 | 1.72 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474291-02** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 21:22** | *Run Time:* | **10.00** |

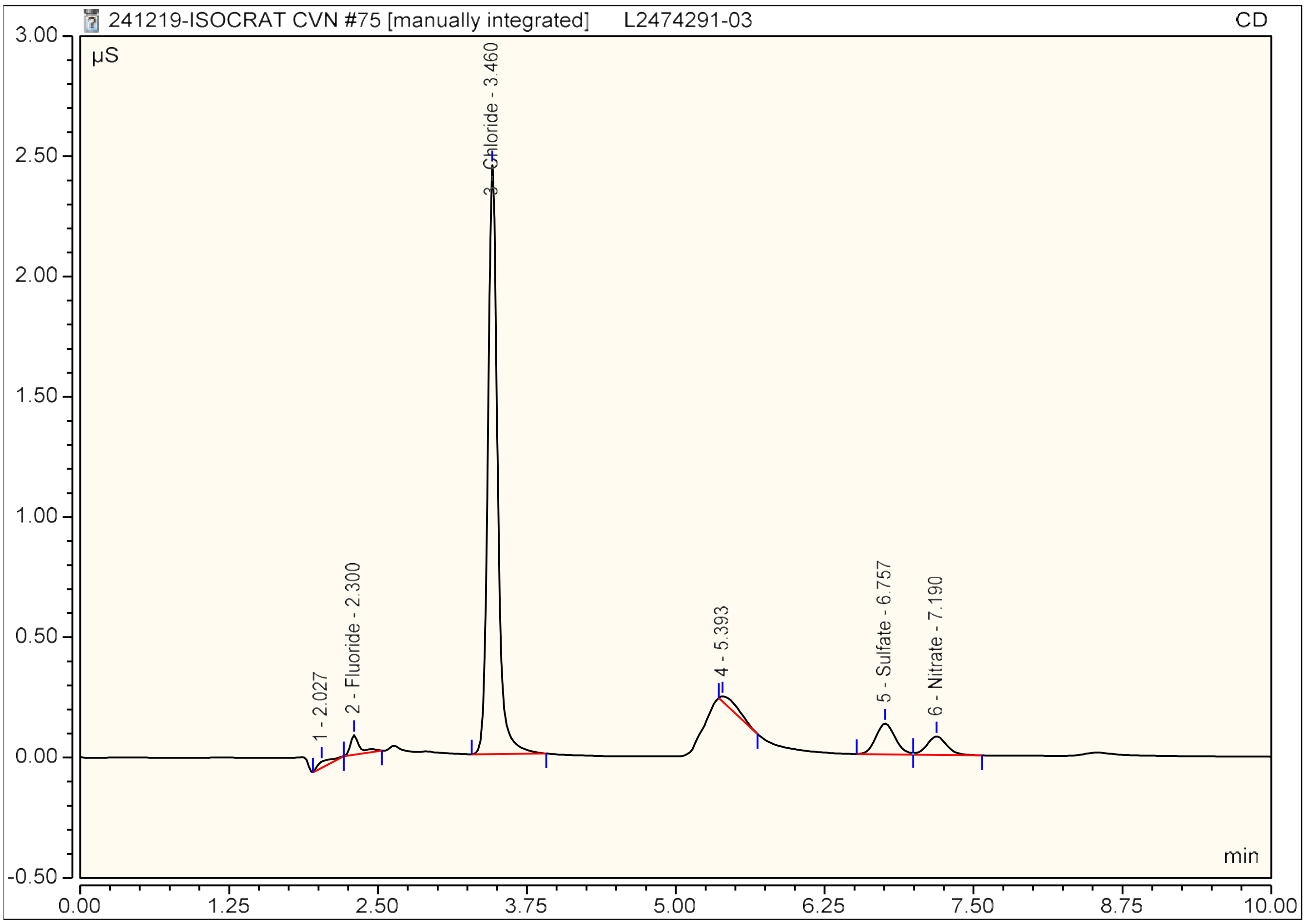
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.010 | 0.115 | 0.0400 |
| 3 | 3.46 | **Chloride** | BMB* | 0.482 | 5.046 | 1.4014 |
| 5 | 6.74 | **Sulfate** | BM * | 0.679 | 3.798 | 2.5875 |
| 6 | 7.18 | **Nitrate** | MB* | 0.130 | 0.669 | 0.1690 |
| | | **TOTAL:** | | 1.30 | 9.63 | 4.20 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474291-03** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 21:34** | *Run Time:* | **10.00** |

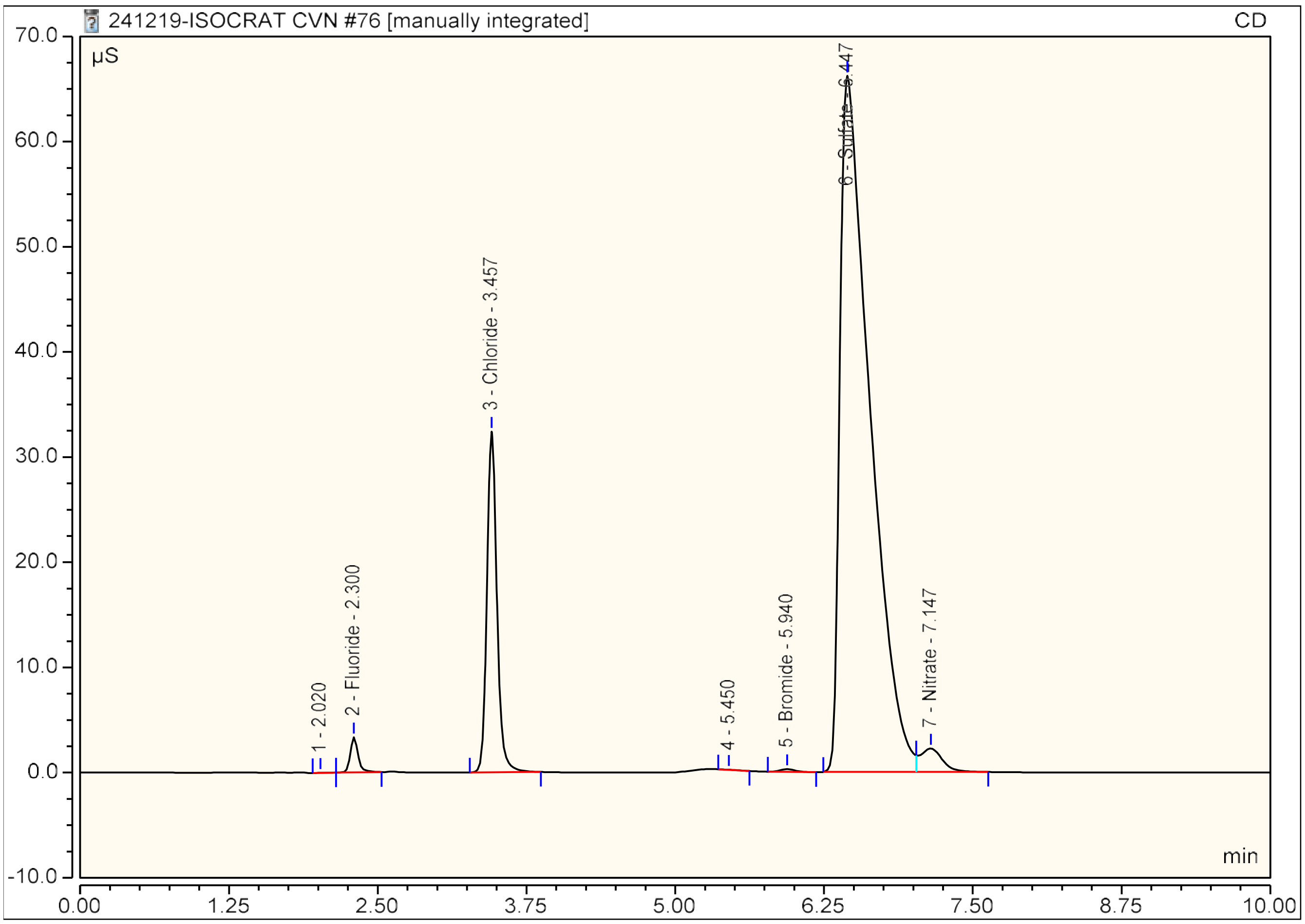
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.008 | 0.081 | 0.0360 |
| 3 | 3.46 | **Chloride** | BMB* | 0.234 | 2.448 | 0.7400 |
| 5 | 6.76 | **Sulfate** | BM * | 0.024 | 0.128 | 0.2853 |
| 6 | 7.19 | **Nitrate** | MB* | 0.015 | 0.077 | 0.0418 |
| | | **TOTAL:** | | 0.28 | 2.73 | 1.10 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474615-19 MS** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 21:46** | *Run Time:* | **10.00** |

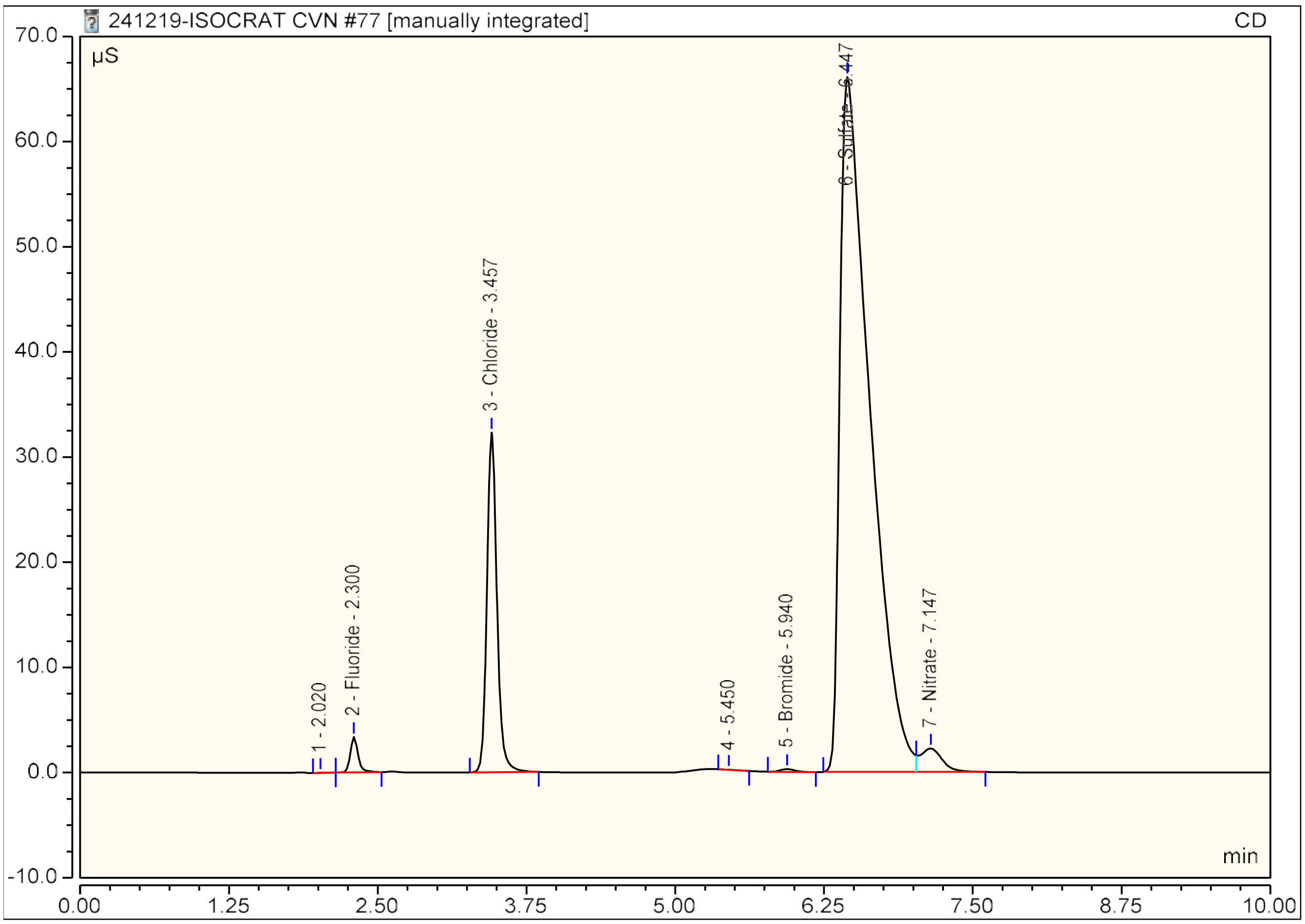
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.255 | 3.346 | 0.5065 |
| 3 | 3.46 | **Chloride** | BMB* | 3.168 | 32.399 | 8.5530 |
| 5 | 5.94 | **Bromide** | BMB | 0.038 | 0.270 | 0.3510 |
| 6 | 6.45 | **Sulfate** | BM * | 19.325 | 66.183 | 68.1385 |
| 7 | 7.15 | **Nitrate** | MB* | 0.489 | 2.234 | 0.5674 |
| | | **TOTAL:** | | 23.27 | 104.43 | 78.12 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474615-19 MSD** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 21:58** | *Run Time:* | **10.00** |

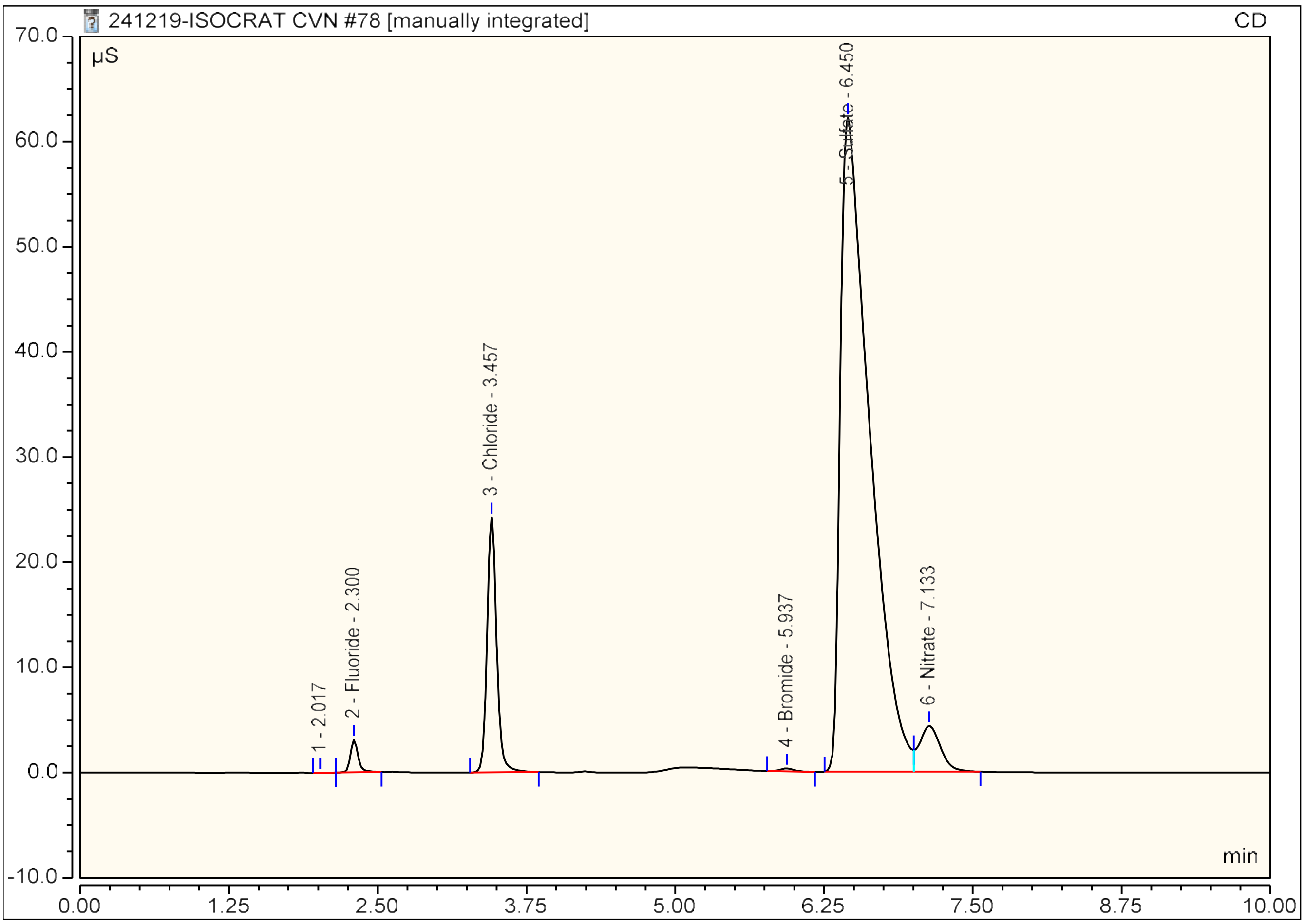
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.256 | 3.358 | 0.5085 |
| 3 | 3.46 | **Chloride** | BMB* | 3.163 | 32.318 | 8.5377 |
| 5 | 5.94 | **Bromide** | BMB | 0.037 | 0.269 | 0.3498 |
| 6 | 6.45 | **Sulfate** | BM * | 19.305 | 66.088 | 68.0693 |
| 7 | 7.15 | **Nitrate** | MB* | 0.486 | 2.231 | 0.5639 |
| | | **TOTAL:** | | 23.25 | 104.26 | 78.03 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474615-11 MS** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 22:10** | *Run Time:* | **10.00** |

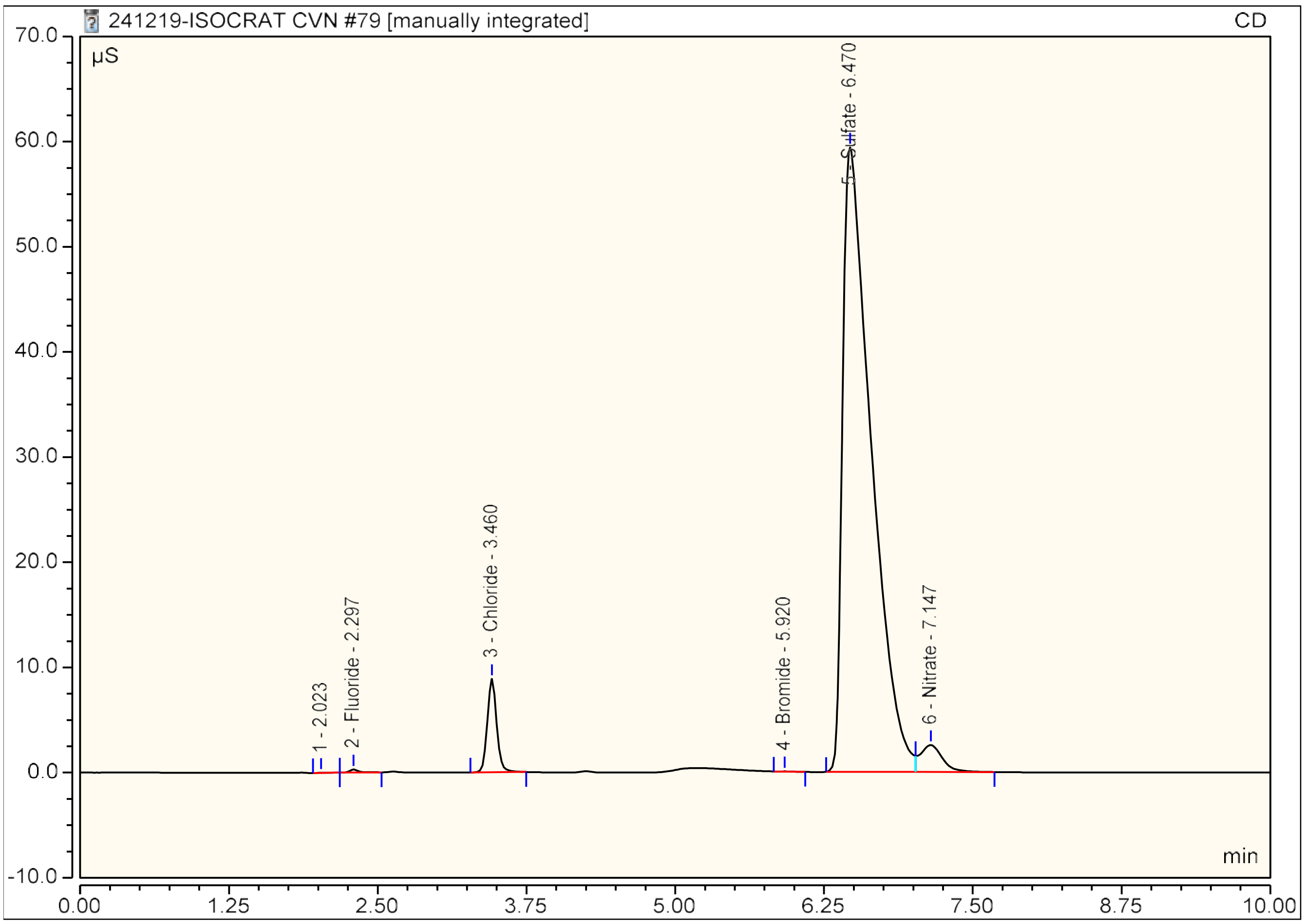
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.234 | 3.104 | 0.4661 |
| 3 | 3.46 | **Chloride** | BMB* | 2.266 | 24.252 | 6.1505 |
| 4 | 5.94 | **Bromide** | BMB | 0.038 | 0.274 | 0.3538 |
| 5 | 6.45 | **Sulfate** | BM * | 17.772 | 62.139 | 62.6819 |
| 6 | 7.13 | **Nitrate** | MB* | 0.901 | 4.340 | 1.0240 |
| | | **TOTAL:** | | 21.21 | 94.11 | 70.68 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474615-11 DUP** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 22:22** | *Run Time:* | **10.00** |

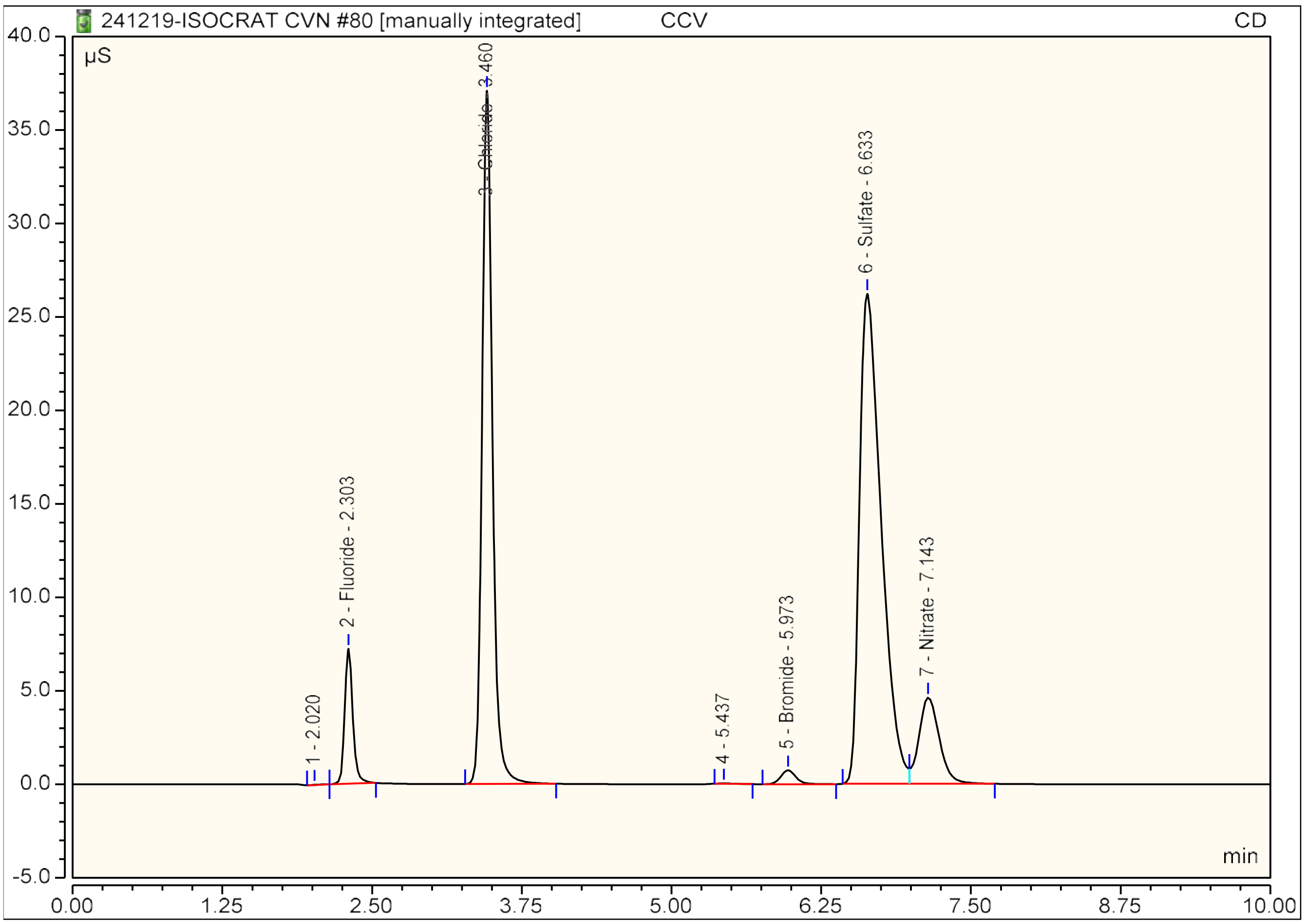
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.024 | 0.287 | 0.0672 |
| 3 | 3.46 | **Chloride** | BMB | 0.819 | 8.878 | 2.2975 |
| 4 | 5.92 | **Bromide** | BMB | 0.003 | 0.022 | 0.0549 |
| 5 | 6.47 | **Sulfate** | BM * | 16.545 | 59.379 | 58.3664 |
| 6 | 7.15 | **Nitrate** | MB* | 0.553 | 2.560 | 0.6389 |
| | | **TOTAL:** | | 17.94 | 71.13 | 61.43 |



## 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:* | **19-Dec-2024 / 22:34** | *Run Time:* | **10.00** |

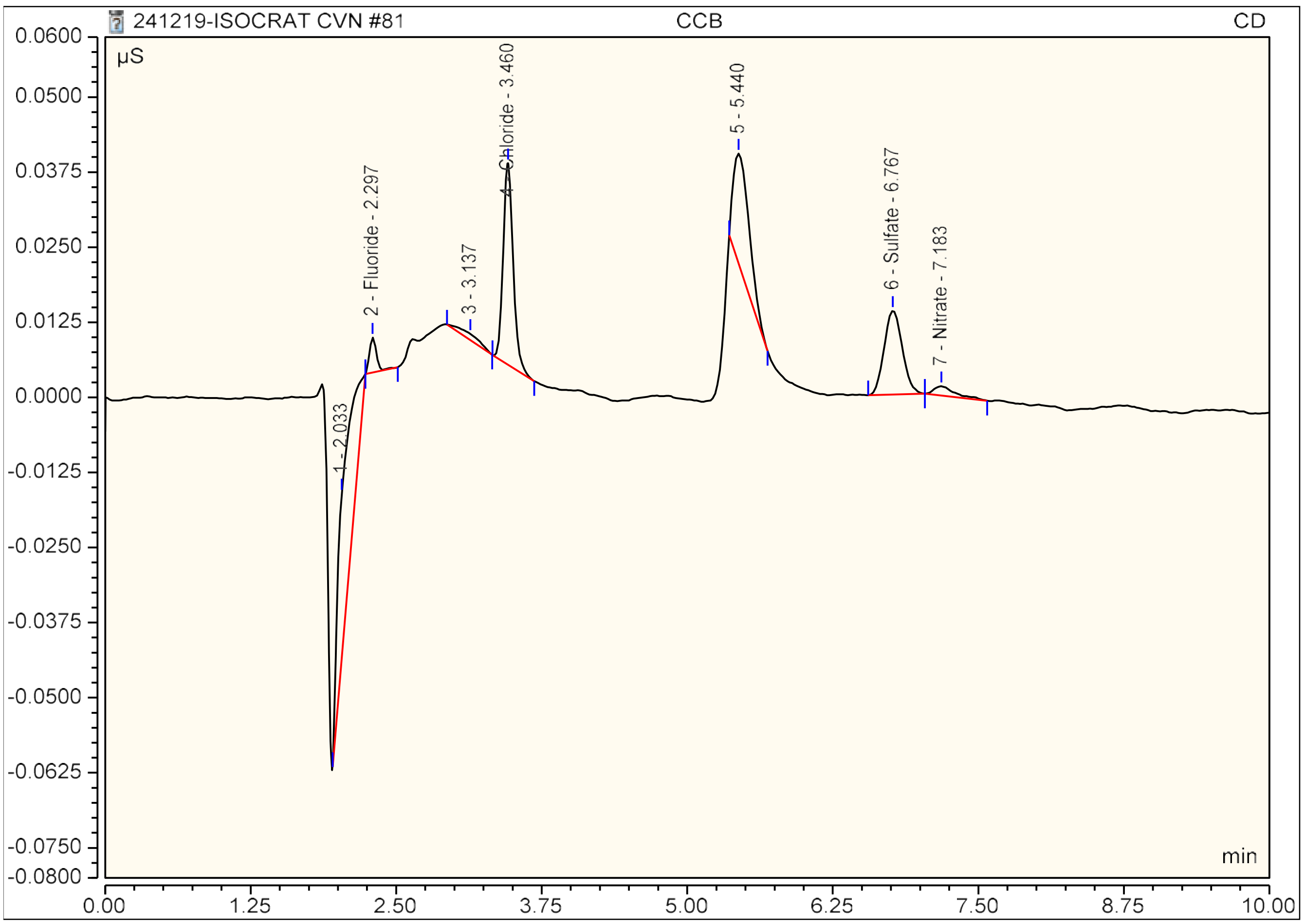
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.561 | 7.223 | 1.0869 |
| 3 | 3.46 | **Chloride** | BMB* | 3.725 | 37.084 | 10.0346 |
| 5 | 5.97 | **Bromide** | BMB | 0.109 | 0.743 | 0.9663 |
| 6 | 6.63 | **Sulfate** | BM * | 5.507 | 26.200 | 19.5610 |
| 7 | 7.14 | **Nitrate** | MB* | 0.909 | 4.613 | 1.0336 |
| | | **TOTAL:** | | 10.81 | 75.86 | 32.68 |



## 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:* | **19-Dec-2024 / 22:46** | *Run Time:* | **10.00** |

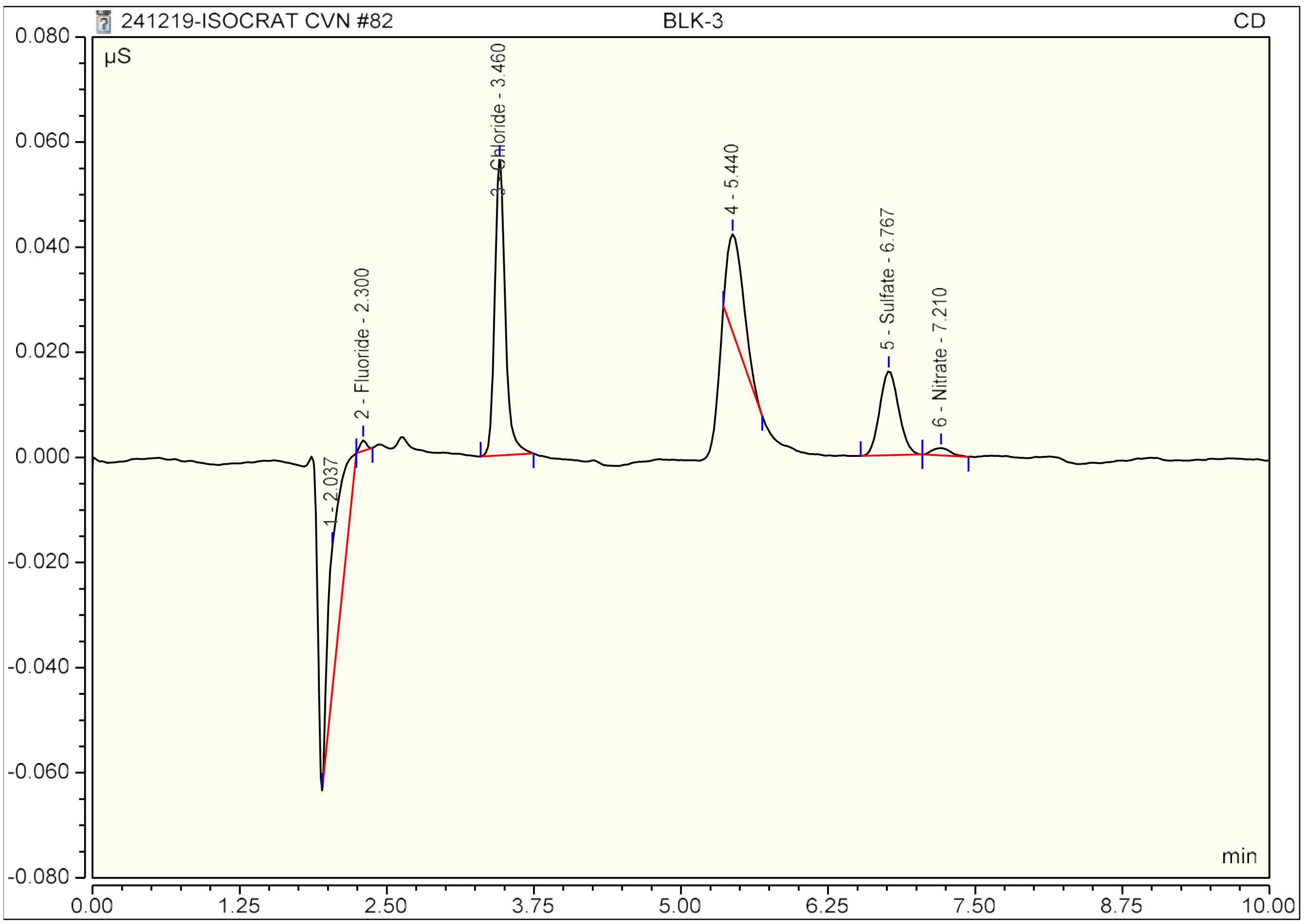
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.000 | 0.006 | 0.0224 |
| 4 | 3.46 | **Chloride** | BMB | 0.003 | 0.034 | 0.1265 |
| 6 | 6.77 | **Sulfate** | BMB | 0.003 | 0.014 | 0.2093 |
| 7 | 7.18 | **Nitrate** | BMB | 0.000 | 0.002 | 0.0256 |
| | | **TOTAL:** | | 0.01 | 0.05 | 0.38 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **BLK-3** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 22:58** | *Run Time:* | **10.00** |

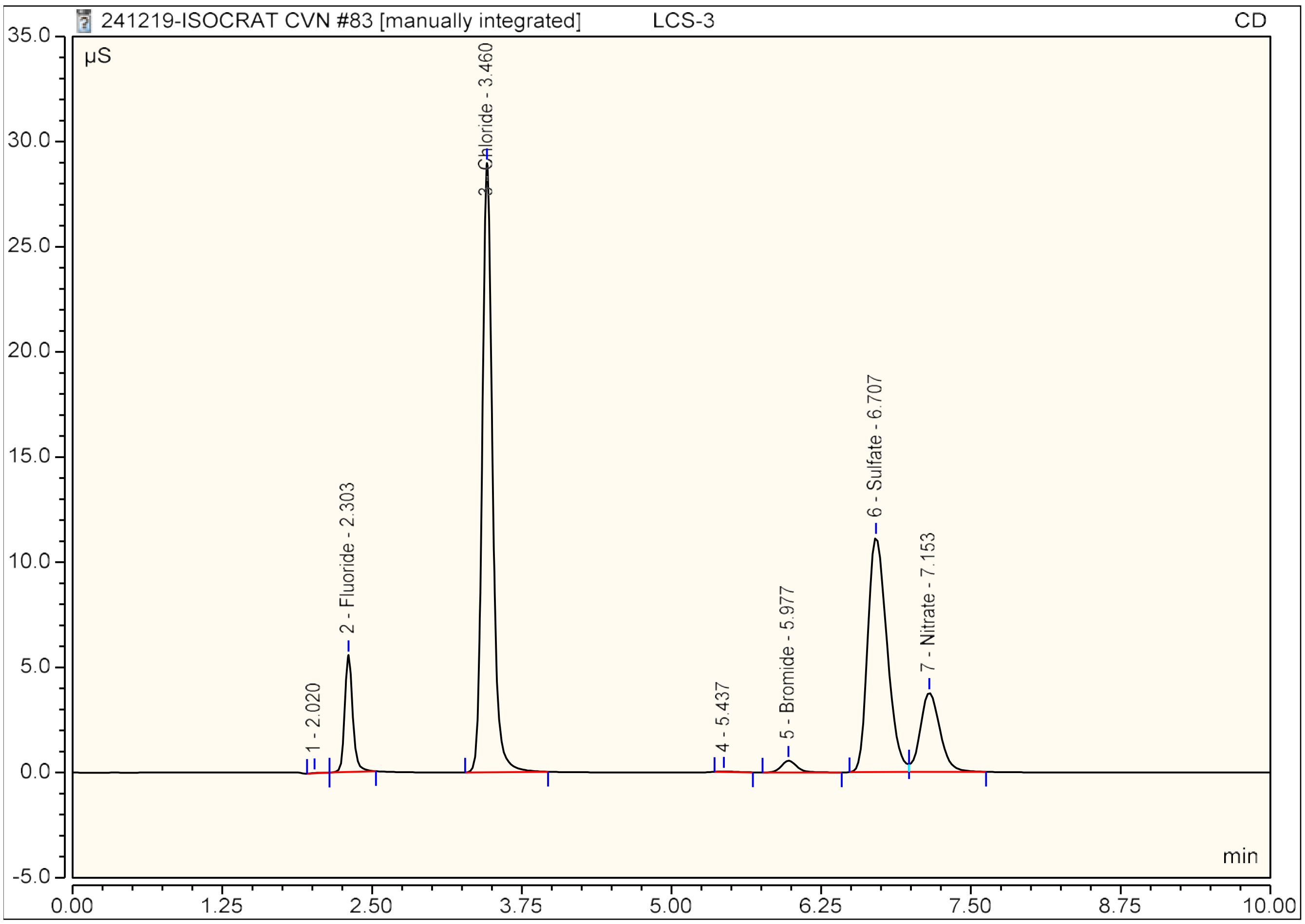
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.000 | 0.002 | 0.0219 |
| 3 | 3.46 | **Chloride** | BMB | 0.006 | 0.056 | 0.1330 |
| 5 | 6.77 | **Sulfate** | BMB | 0.003 | 0.016 | 0.2109 |
| 6 | 7.21 | **Nitrate** | BMB | 0.000 | 0.001 | 0.0255 |
| | | **TOTAL:** | | 0.01 | 0.08 | 0.39 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **LCS-3** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 23:11** | *Run Time:* | **10.00** |

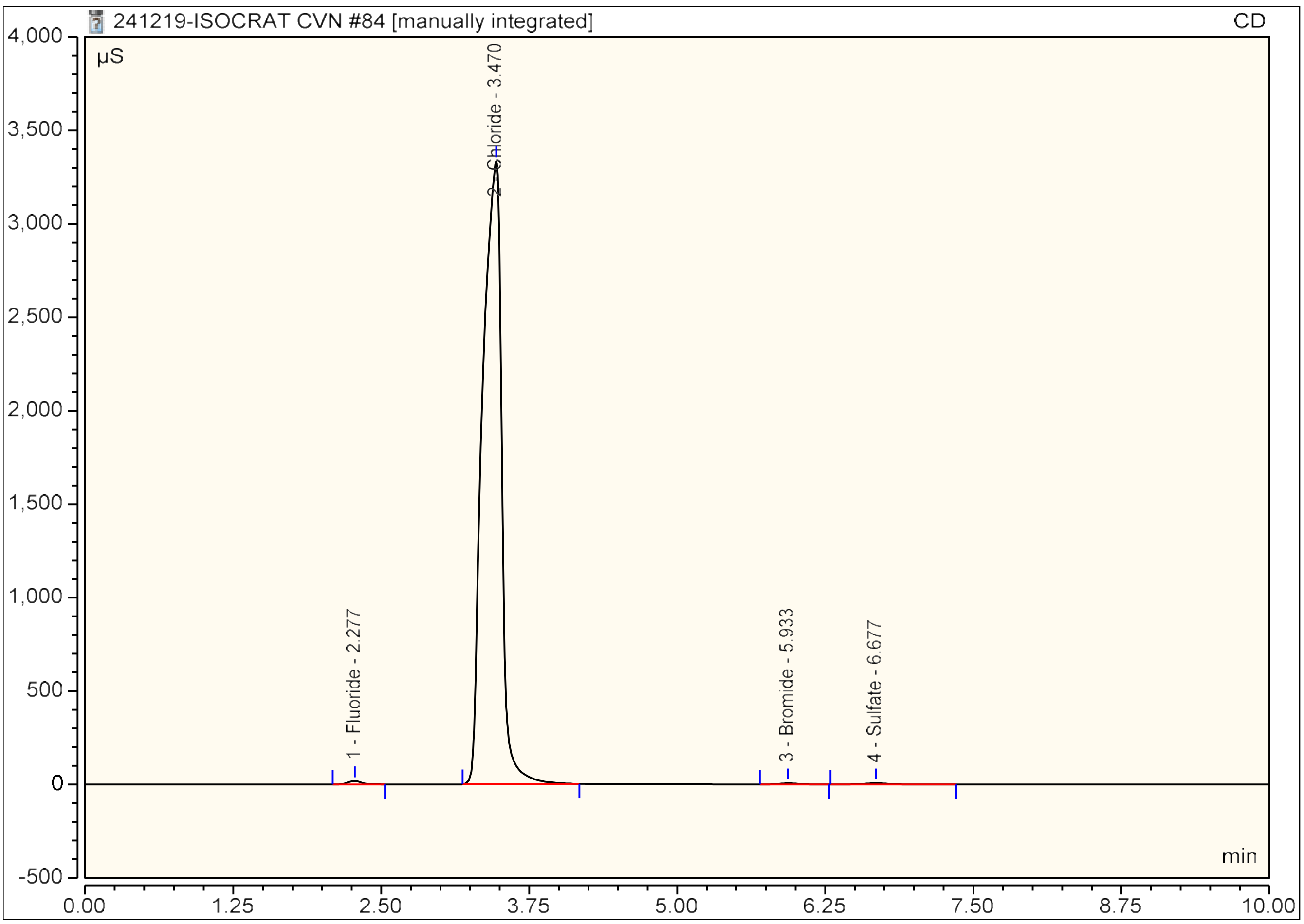
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.427 | 5.559 | 0.8333 |
| 3 | 3.46 | **Chloride** | BMB* | 2.902 | 28.960 | 7.8435 |
| 5 | 5.98 | **Bromide** | BMB | 0.085 | 0.558 | 0.7528 |
| 6 | 6.71 | **Sulfate** | BM * | 2.082 | 11.148 | 7.5188 |
| 7 | 7.15 | **Nitrate** | MB* | 0.715 | 3.762 | 0.8179 |
| | | **TOTAL:** | | 6.21 | 49.99 | 17.77 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474624-01 CL SO4** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 23:23** | *Run Time:* | **10.00** |

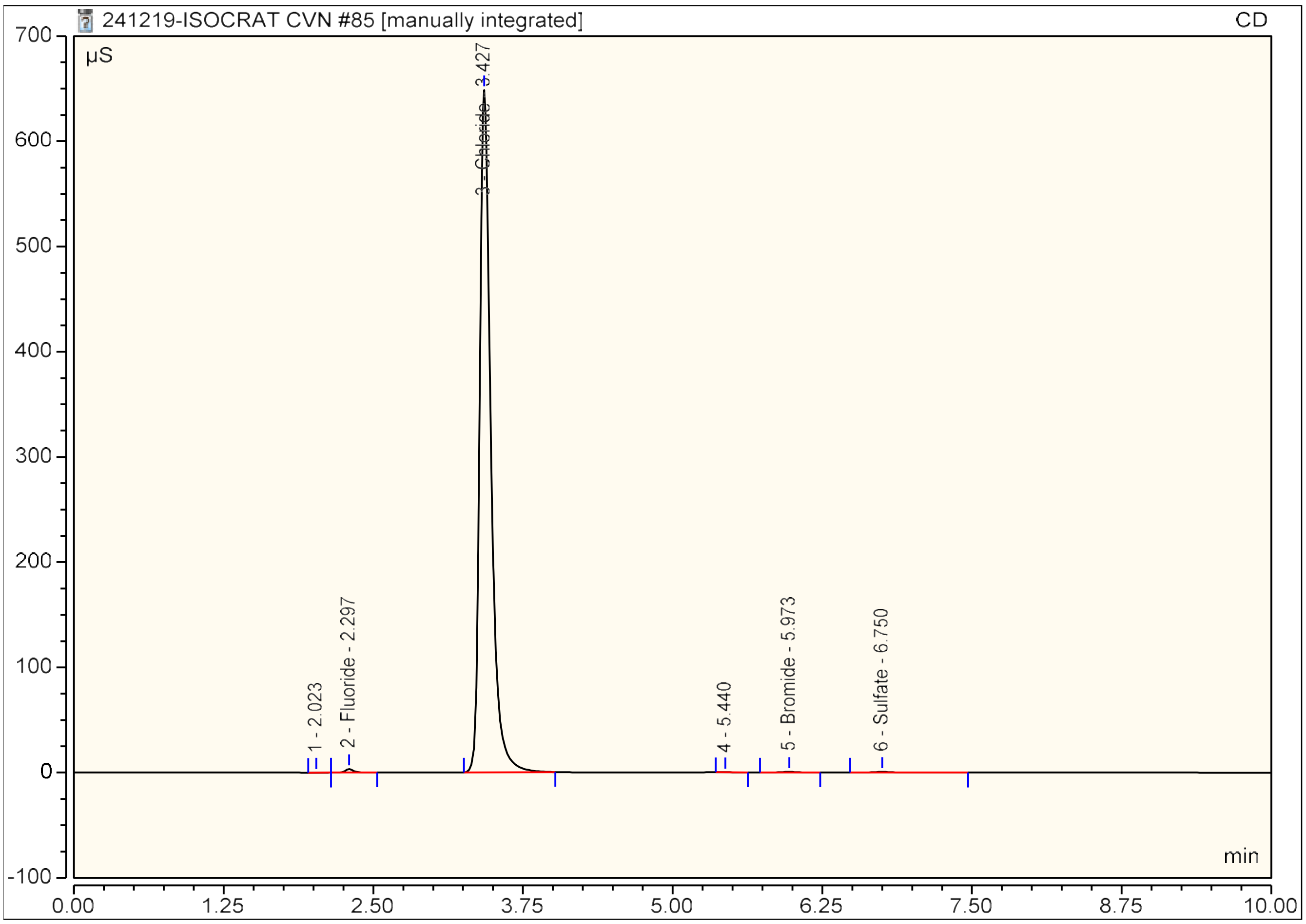
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 1 | 2.28 | **Fluoride** | BMB | 2.487 | 18.238 | 4.7442 |
| 2 | 3.47 | **Chloride** | BMB* | 620.755 | 3334.814 | 1652.7945 |
| 3 | 5.93 | **Bromide** | BMB | 1.024 | 6.156 | 8.7884 |
| 4 | 6.68 | **Sulfate** | BMB | 1.468 | 6.339 | 5.3630 |
| | | **TOTAL:** | | 625.73 | 3365.55 | 1671.69 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **XL2474624-01; 10X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 23:35** | *Run Time:* | **10.00** |

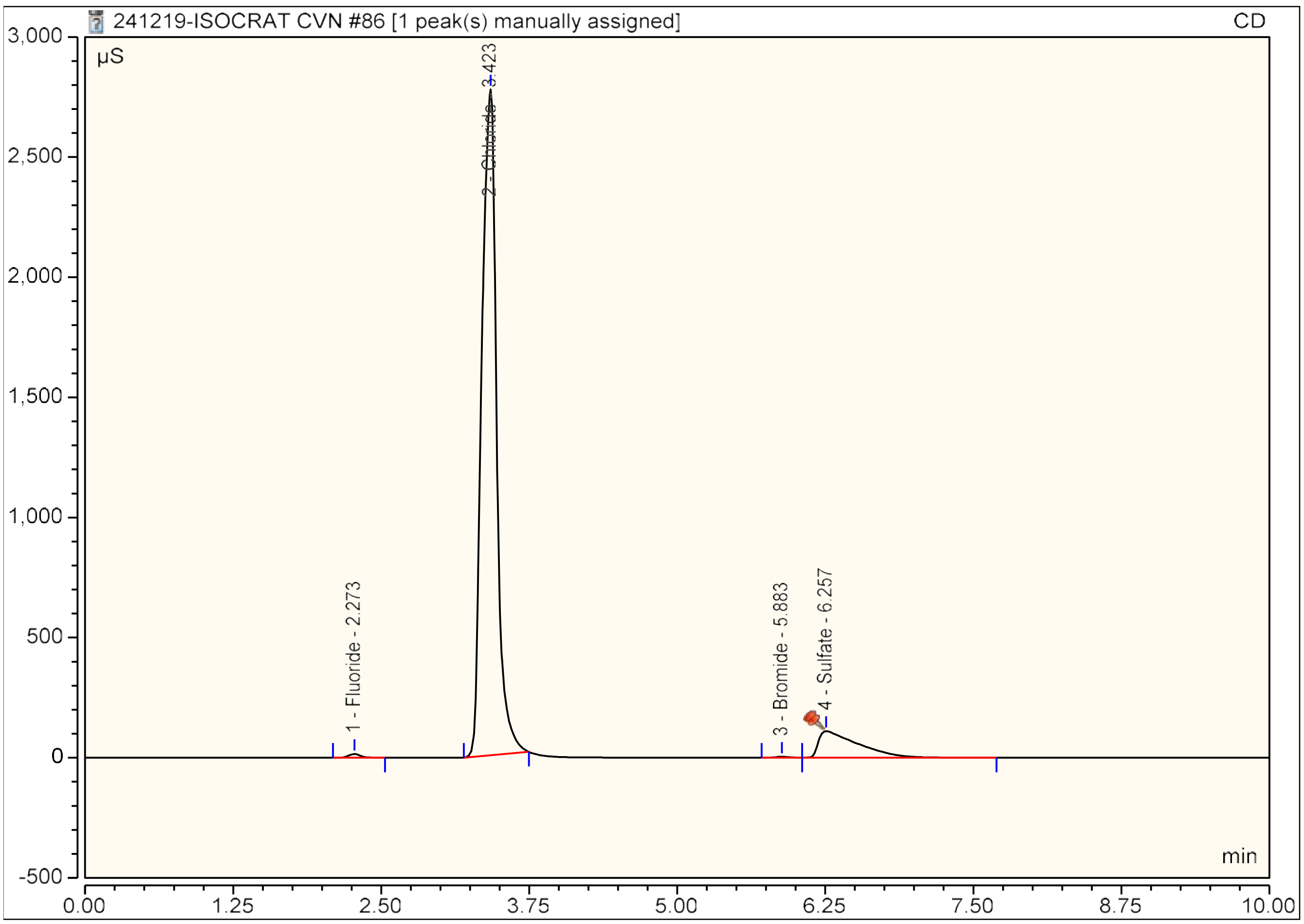
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.265 | 3.361 | 5.2534 |
| 3 | 3.43 | **Chloride** | BMB* | 70.041 | 648.527 | 1865.9326 |
| 5 | 5.97 | **Bromide** | BMB | 0.086 | 0.570 | 7.6227 |
| 6 | 6.75 | **Sulfate** | BMB | 0.131 | 0.699 | 6.5984 |
| | | **TOTAL:** | | 70.52 | 653.16 | 1885.41 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **XL2474624-02** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 23:47** | *Run Time:* | **10.00** |

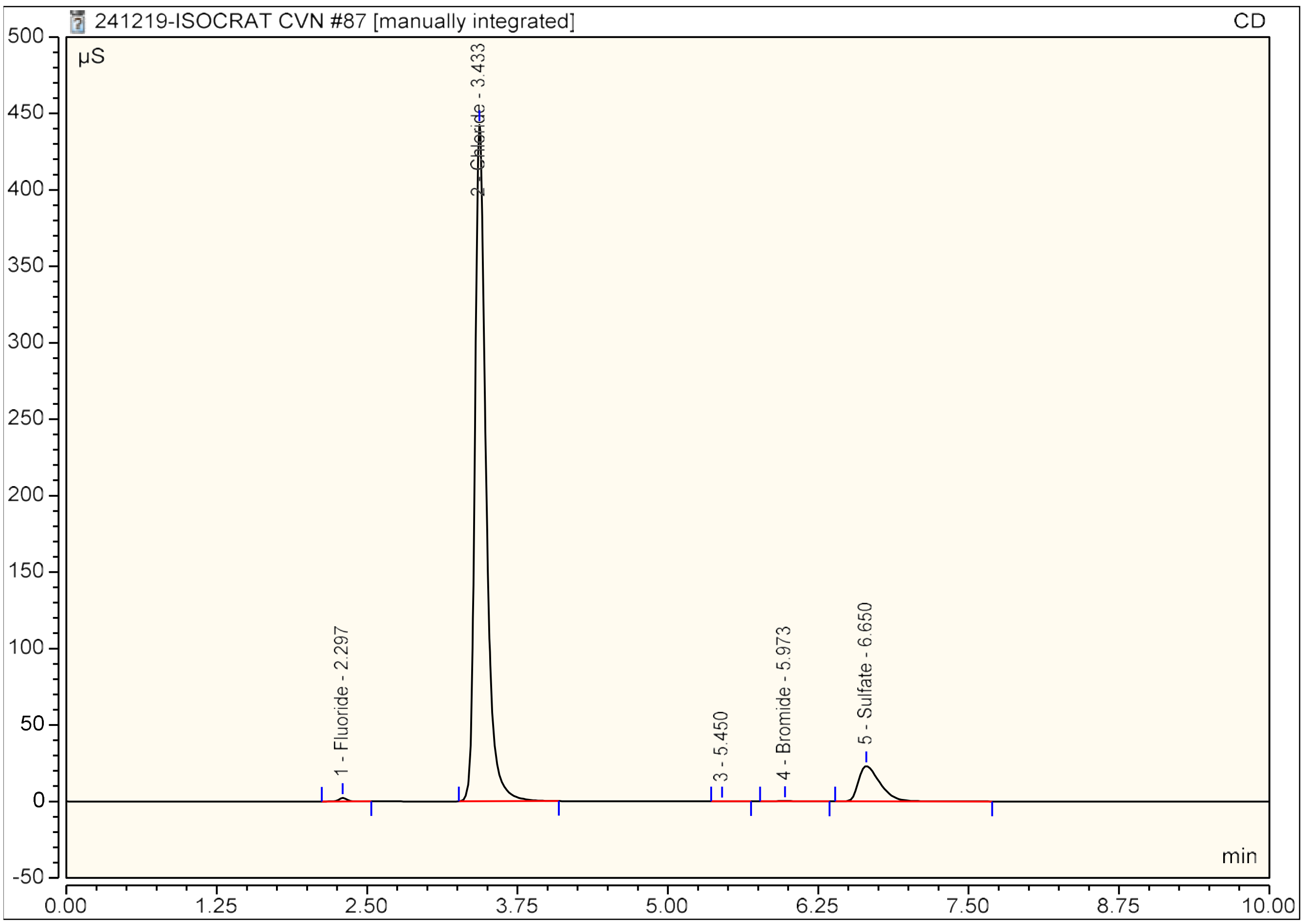
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 1 | 2.27 | **Fluoride** | BMB | 1.815 | 15.364 | 3.4676 |
| 2 | 3.42 | **Chloride** | BMB | 398.689 | 2771.568 | 1061.5725 |
| 3 | 5.88 | **Bromide** | BMB | 0.473 | 3.500 | 4.0804 |
| 4 | 6.26 | **Sulfate** | BMB^ | 42.544 | 110.771 | 149.7713 |
| | | **TOTAL:** | | 443.52 | 2901.20 | 1218.89 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474624-02; 10X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **19-Dec-2024 / 23:59** | *Run Time:* | **10.00** |

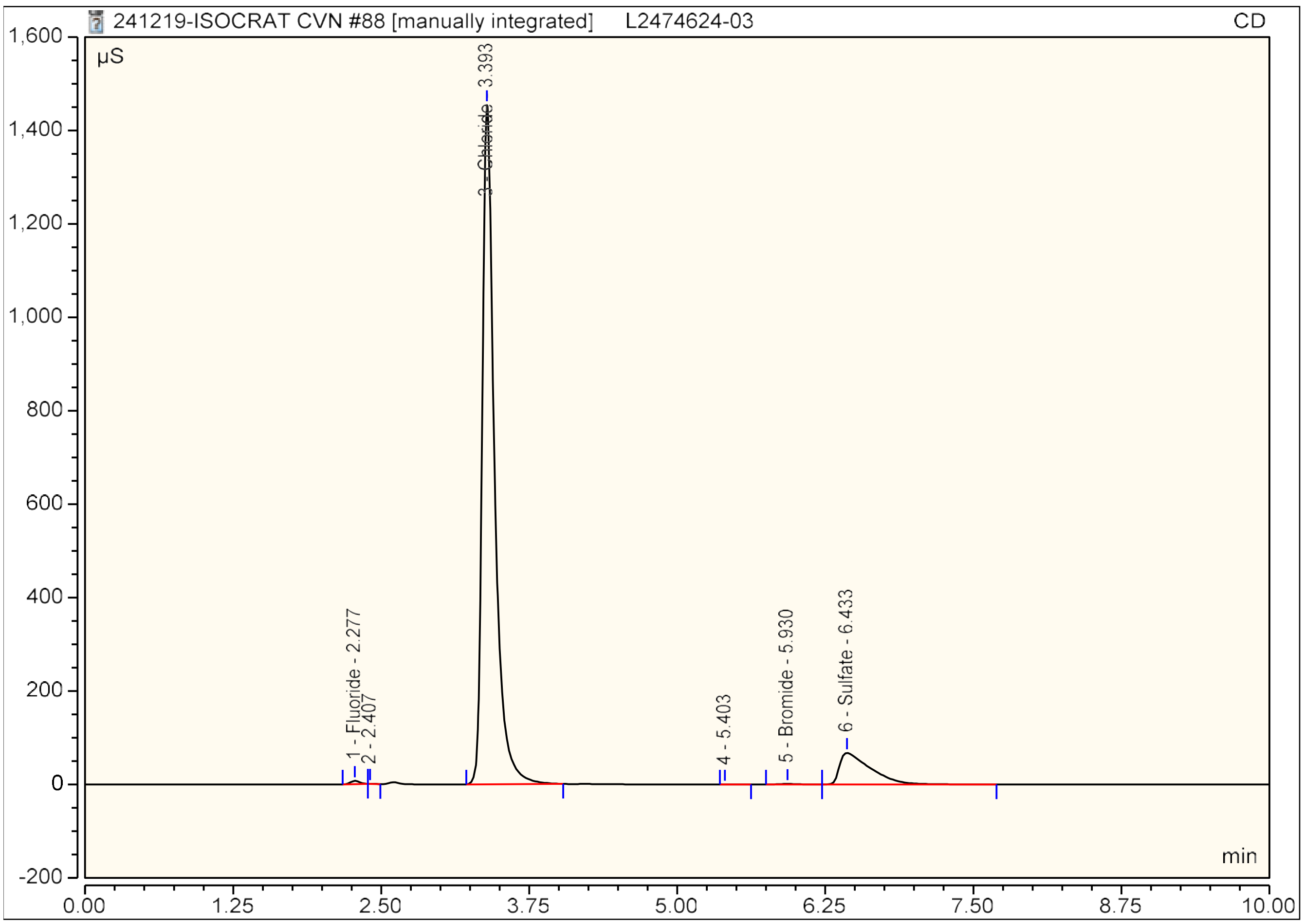
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 1 | 2.30 | **Fluoride** | BMB | 0.182 | 2.370 | 3.6748 |
| 2 | 3.43 | **Chloride** | BMB* | 47.450 | 442.440 | 1264.4650 |
| 4 | 5.97 | **Bromide** | BMB | 0.046 | 0.297 | 4.2058 |
| 5 | 6.65 | **Sulfate** | BMB | 4.823 | 23.175 | 171.5673 |
| | | **TOTAL:** | | 52.50 | 468.28 | 1443.91 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474624-03** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 00:11** | *Run Time:* | **10.00** |

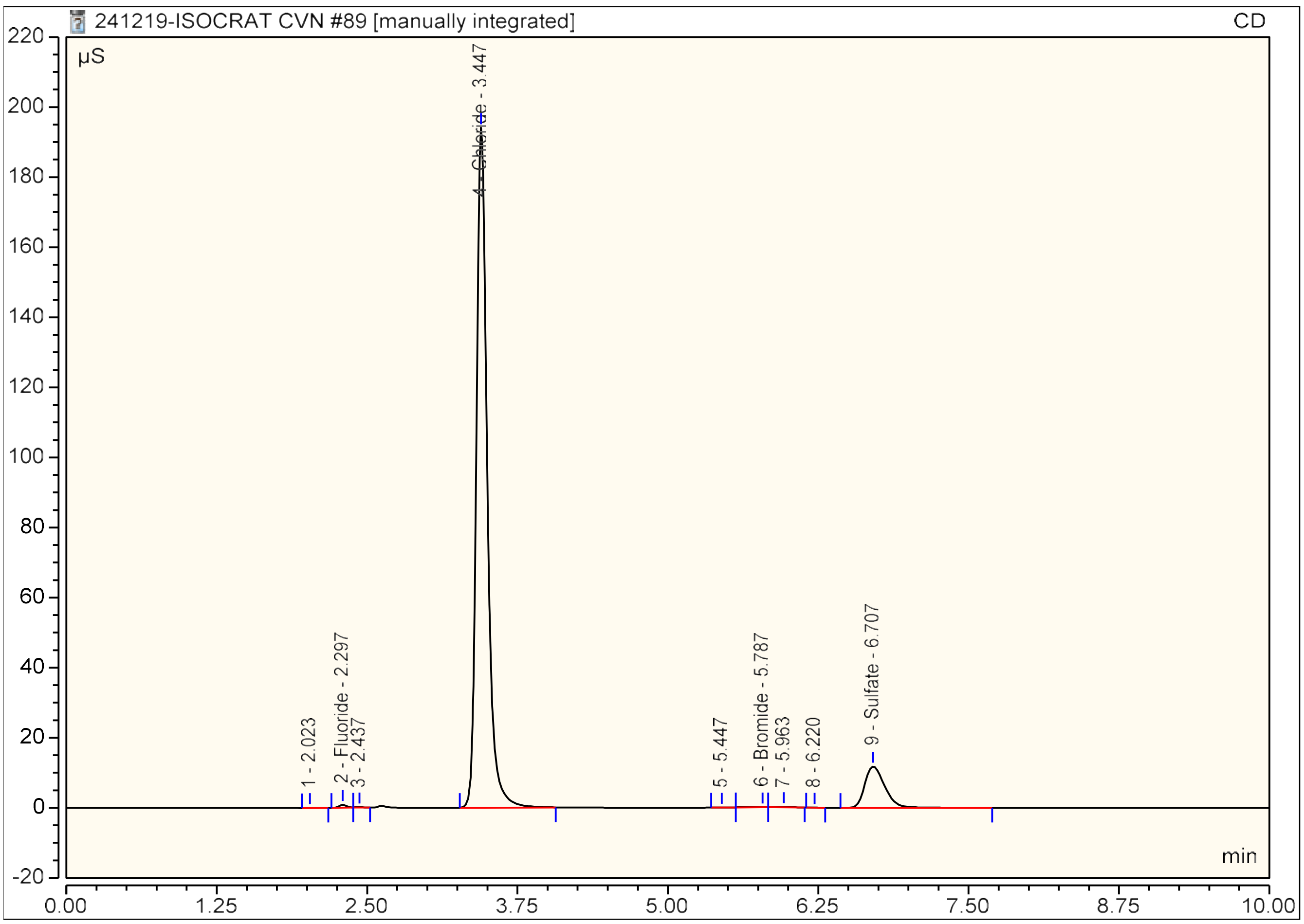
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 1 | 2.28 | **Fluoride** | BMB | 0.598 | 6.906 | 1.1576 |
| 3 | 3.39 | **Chloride** | BMB* | 174.303 | 1453.945 | 464.1774 |
| 5 | 5.93 | **Bromide** | BMB | 0.182 | 1.226 | 1.5891 |
| 6 | 6.43 | **Sulfate** | BMB | 20.300 | 67.620 | 71.5694 |
| | | **TOTAL:** | | 195.38 | 1529.70 | 538.49 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **XL2474624-03; 10X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 00:23** | *Run Time:* | **10.00** |

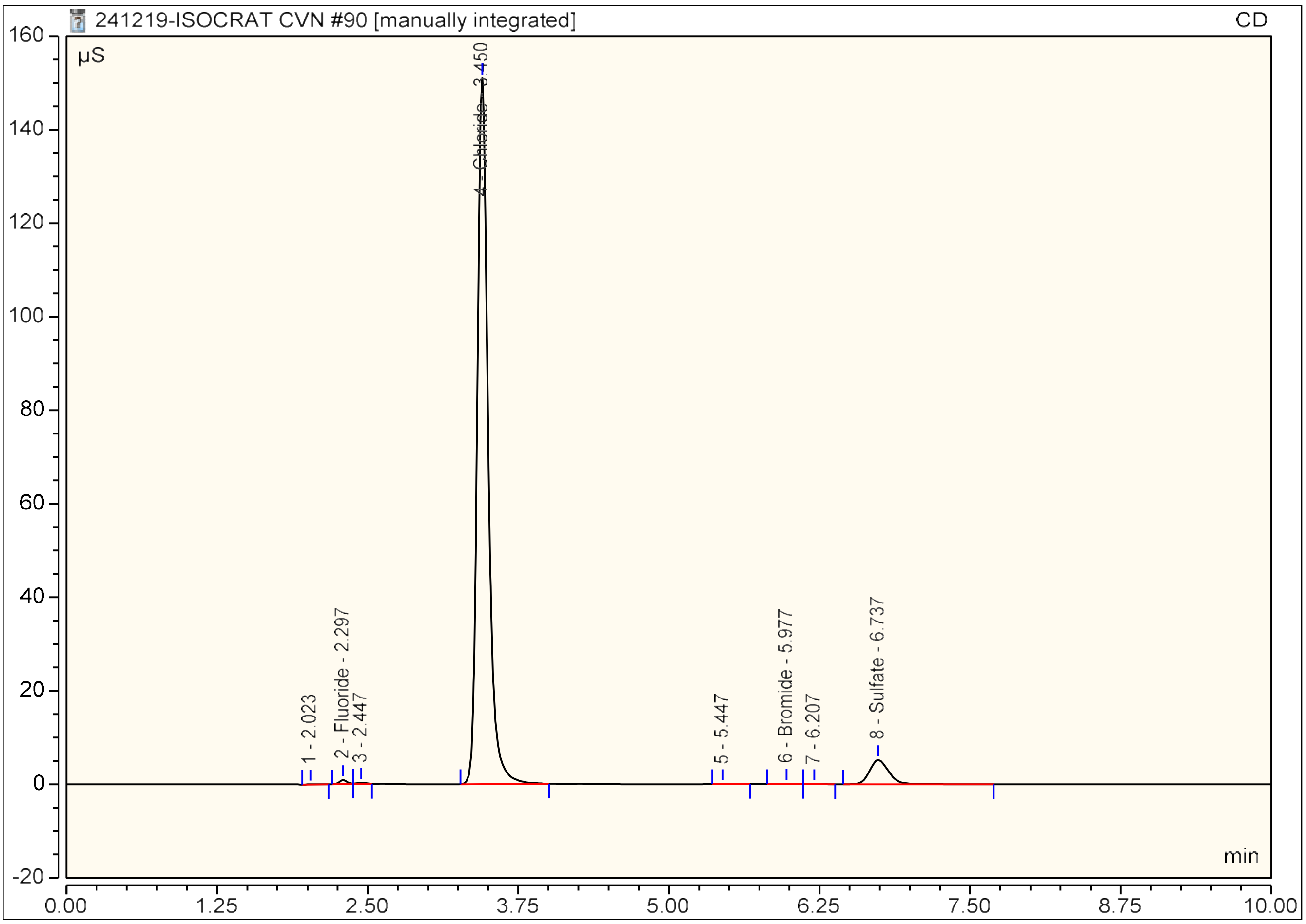
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.055 | 0.834 | 1.2677 |
| 4 | 3.45 | **Chloride** | BMB* | 20.222 | 194.028 | 539.5527 |
| 6 | 5.79 | **Bromide** | BMB | 0.003 | 0.011 | 0.5211 |
| 9 | 6.71 | **Sulfate** | BMB | 2.264 | 11.792 | 81.6132 |
| | | **TOTAL:** | | 22.54 | 206.66 | 622.95 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474624-04; 10X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 00:35** | *Run Time:* | **10.00** |

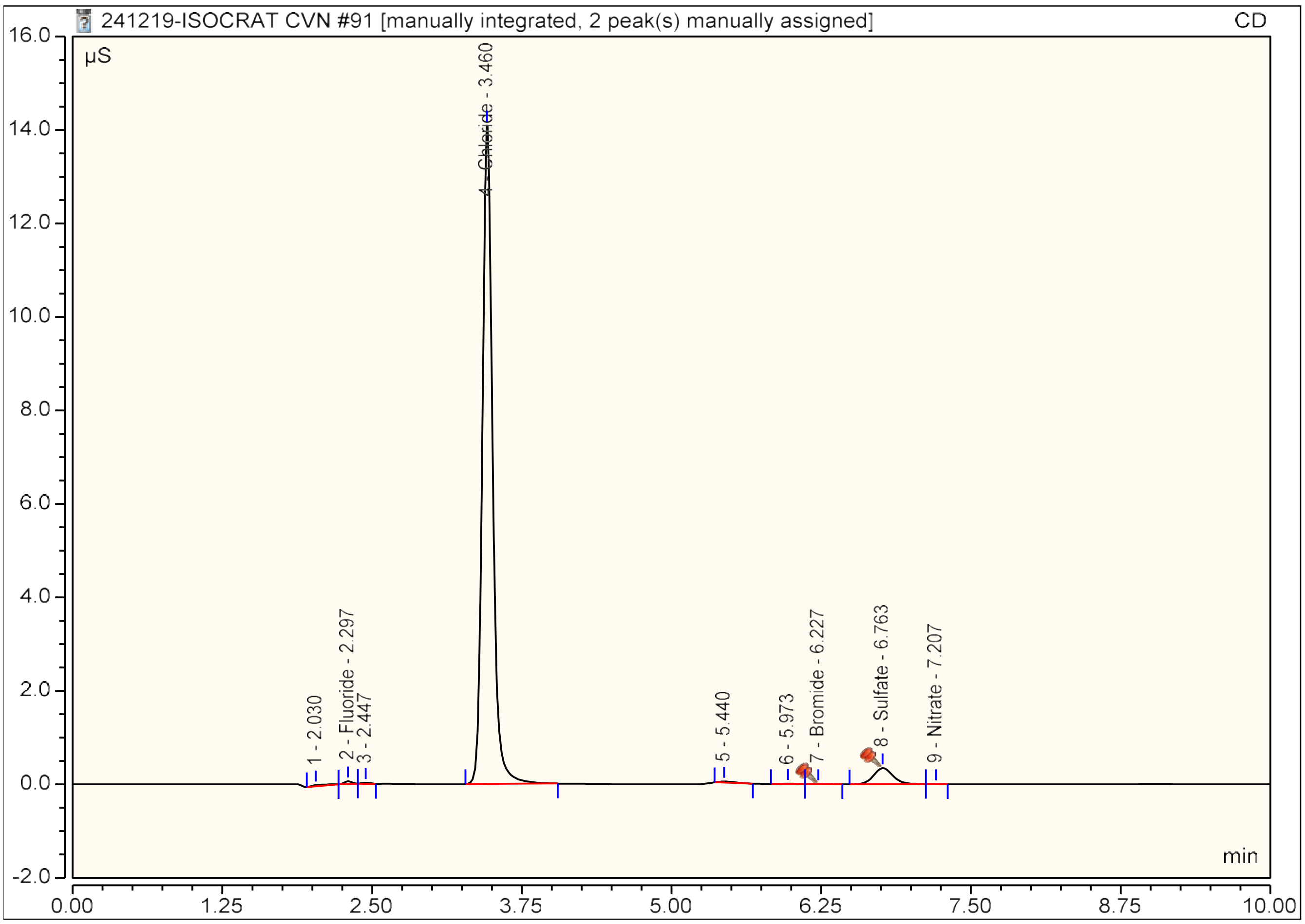
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.057 | 0.864 | 1.3049 |
| 4 | 3.45 | **Chloride** | BMB* | 15.745 | 150.962 | 420.3661 |
| 6 | 5.98 | **Bromide** | BMB | 0.009 | 0.068 | 1.0618 |
| 8 | 6.74 | **Sulfate** | BMB | 0.959 | 5.167 | 35.7170 |
| | | **TOTAL:** | | 16.77 | 157.06 | 458.45 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **XL2474624-04; 100X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **100.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 00:47** | *Run Time:* | **10.00** |

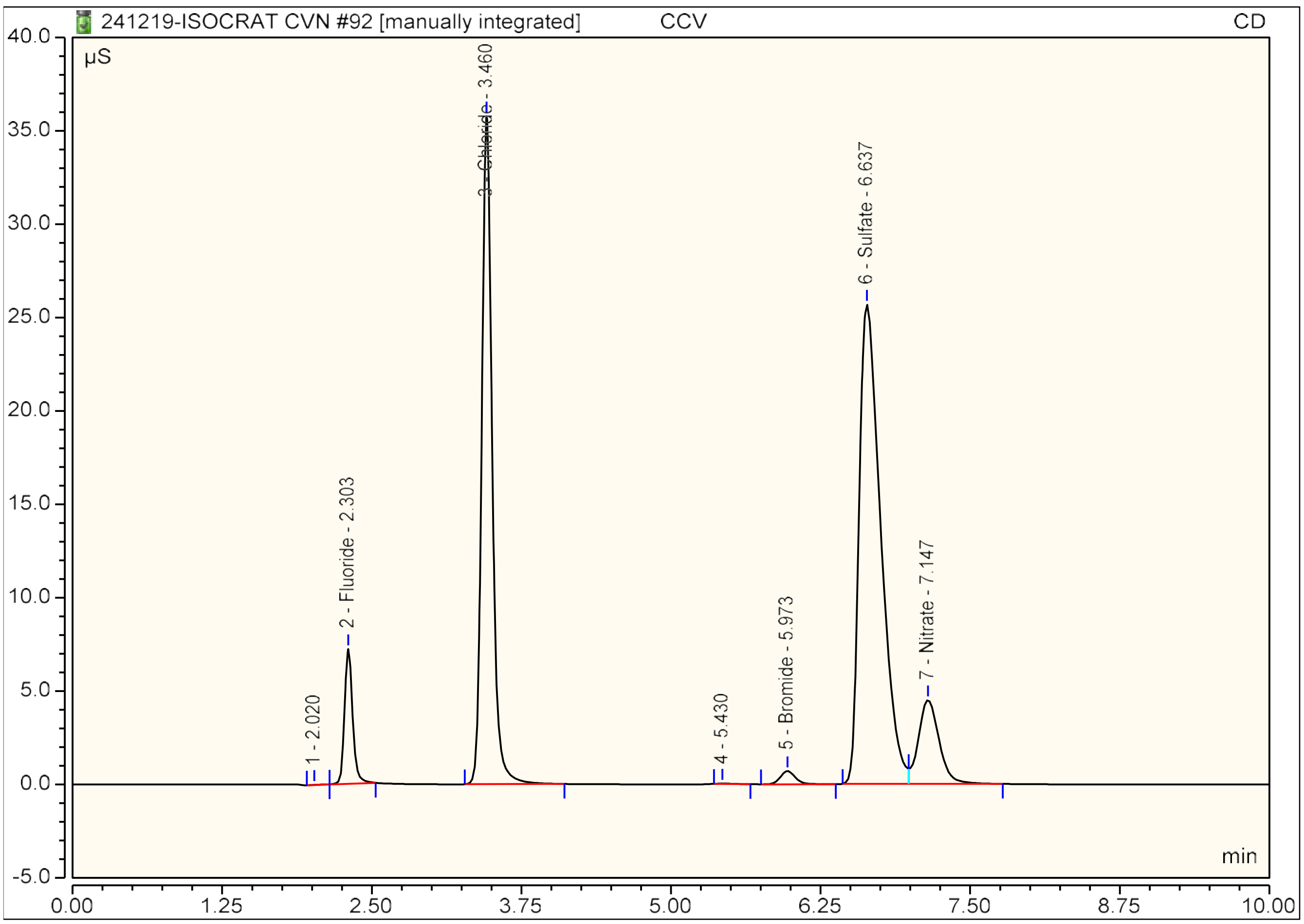
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.004 | 0.061 | 2.9452 |
| 4 | 3.46 | **Chloride** | BMB* | 1.401 | 14.091 | 384.8779 |
| 7 | 6.23 | **Bromide** | BMB^ | 0.000 | 0.003 | 3.3083 |
| 8 | 6.76 | **Sulfate** | BMB^ | 0.063 | 0.343 | 42.1841 |
| 9 | 7.21 | **Nitrate** | BMB | 0.000 | 0.001 | 2.5295 |
| | | **TOTAL:** | | 1.47 | 14.50 | 435.84 |



## 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:* | **20-Dec-2024 / 00:59** | *Run Time:* | **10.00** |

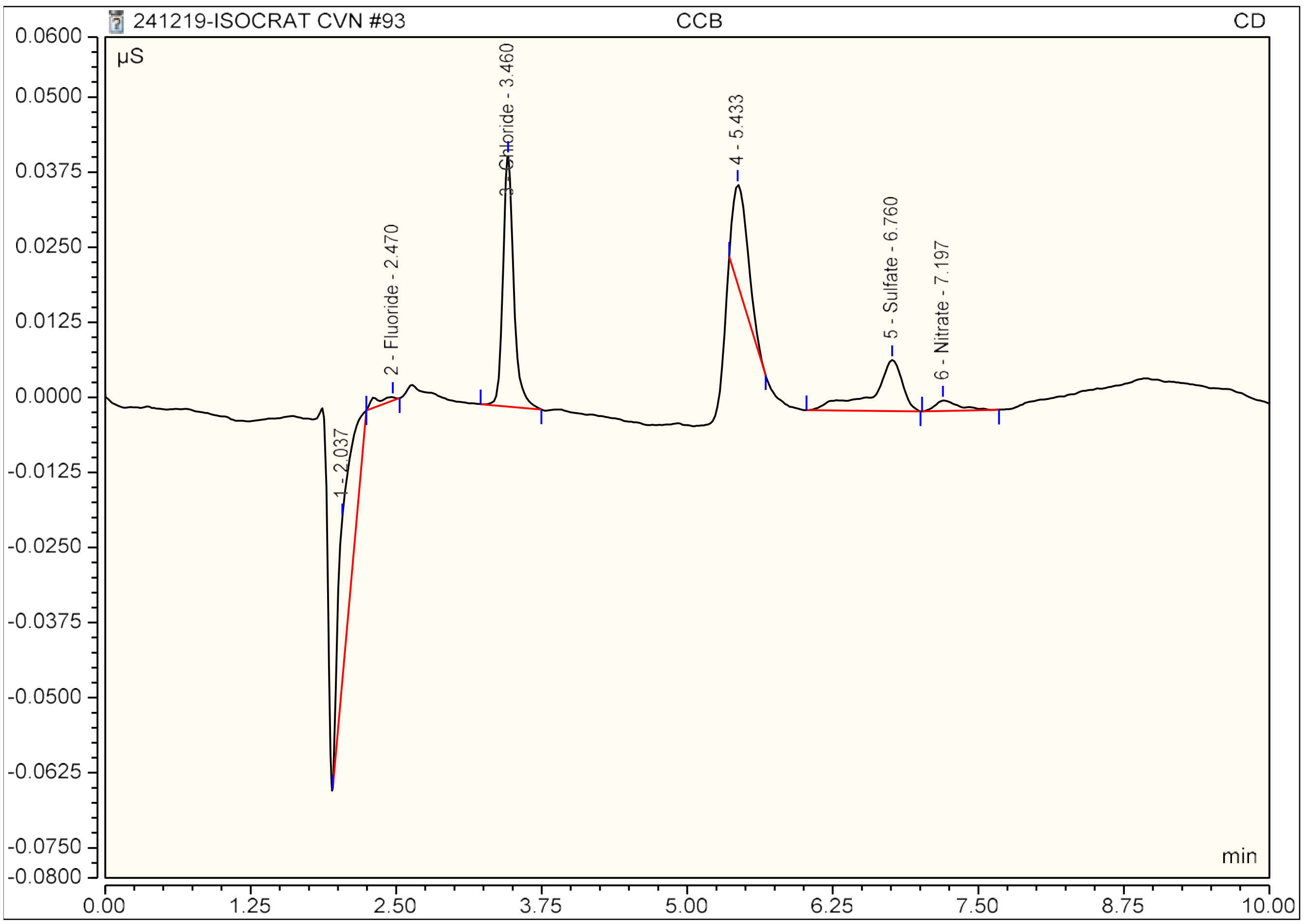
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.562 | 7.213 | 1.0887 |
| 3 | 3.46 | **Chloride** | BMB* | 3.610 | 35.772 | 9.7300 |
| 5 | 5.97 | **Bromide** | BMB | 0.105 | 0.708 | 0.9240 |
| 6 | 6.64 | **Sulfate** | BM * | 5.357 | 25.663 | 19.0351 |
| 7 | 7.15 | **Nitrate** | MB* | 0.897 | 4.486 | 1.0200 |
| | | **TOTAL:** | | 10.53 | 73.84 | 31.80 |



## 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:* | **20-Dec-2024 / 01:11** | *Run Time:* | **10.00** |

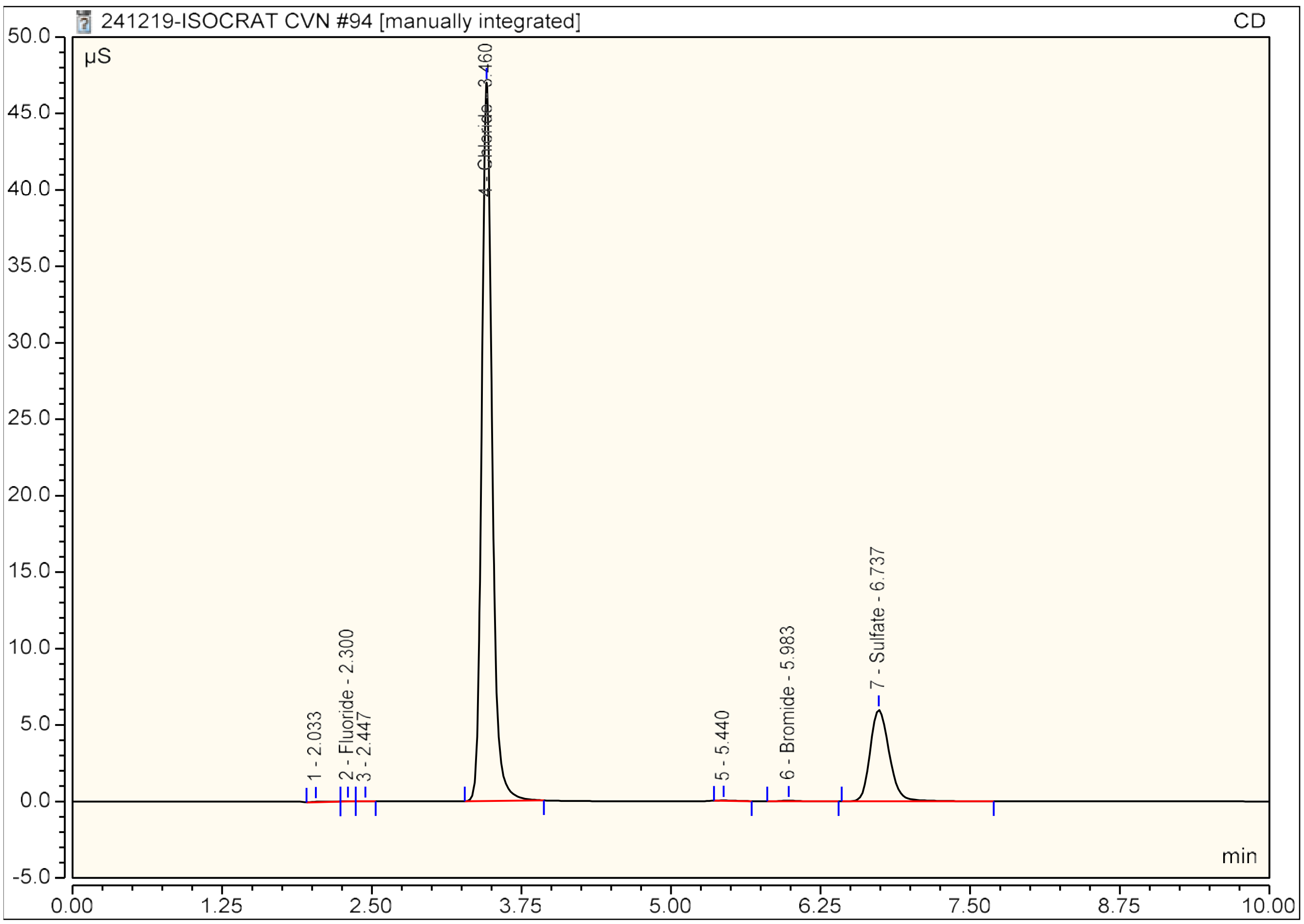
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.47 | **Fluoride** | BMB | 0.000 | 0.001 | 0.0220 |
| 3 | 3.46 | **Chloride** | BMB | 0.004 | 0.042 | 0.1295 |
| 5 | 6.76 | **Sulfate** | BMB | 0.003 | 0.009 | 0.2094 |
| 6 | 7.20 | **Nitrate** | BMB | 0.000 | 0.002 | 0.0257 |
| | | **TOTAL:** | | 0.01 | 0.05 | 0.39 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2473669-01; 100X CL** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **100.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 01:24** | *Run Time:* | **10.00** |

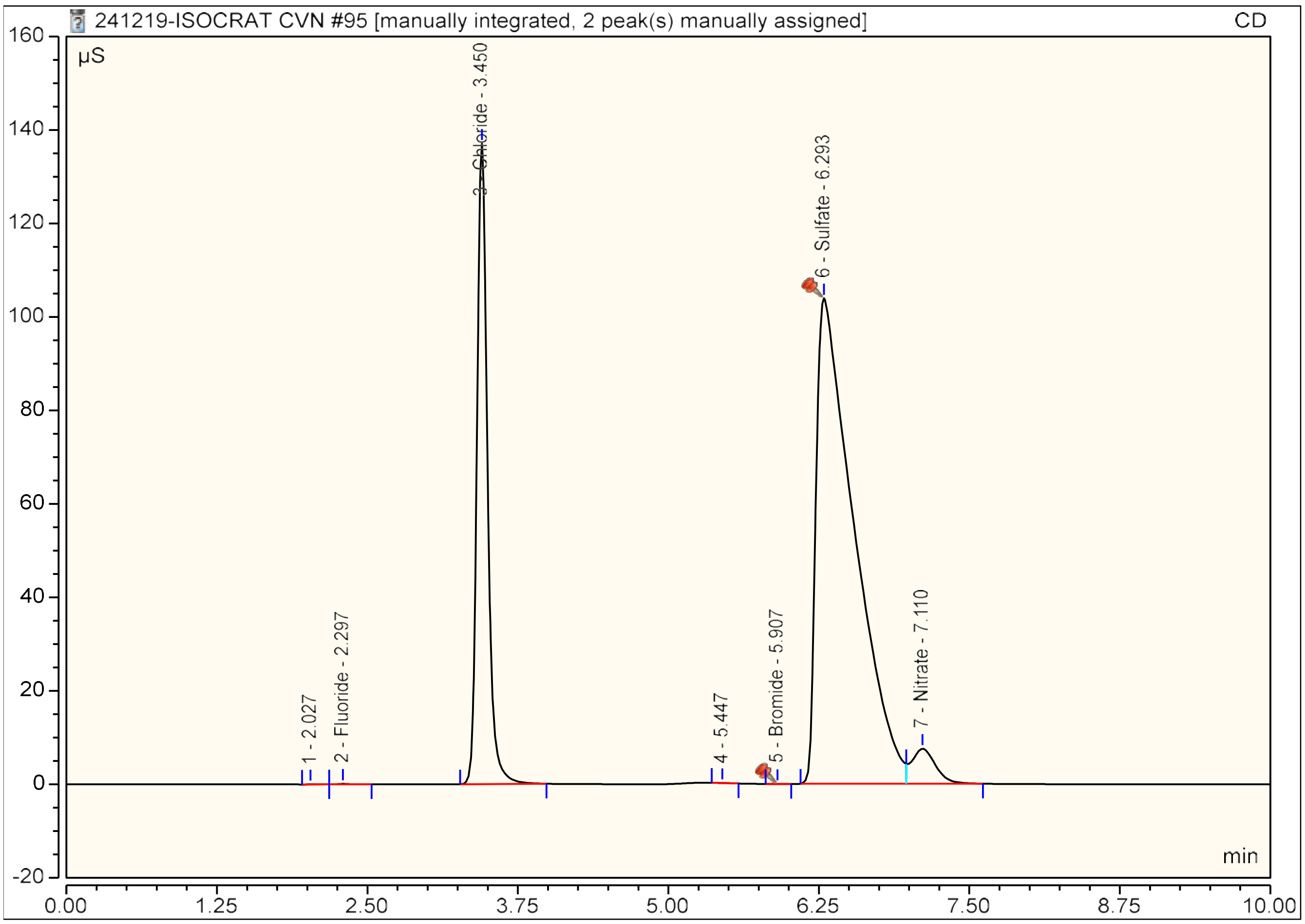
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.000 | 0.005 | 2.2260 |
| 4 | 3.46 | **Chloride** | BMB* | 4.742 | 47.003 | 1274.3423 |
| 6 | 5.98 | **Bromide** | BMB | 0.008 | 0.049 | 9.4210 |
| 7 | 6.74 | **Sulfate** | BMB | 1.107 | 5.974 | 409.1313 |
| | | **TOTAL:** | | 5.86 | 53.03 | 1695.12 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2473722-01 CL SO4** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 01:36** | *Run Time:* | **10.00** |

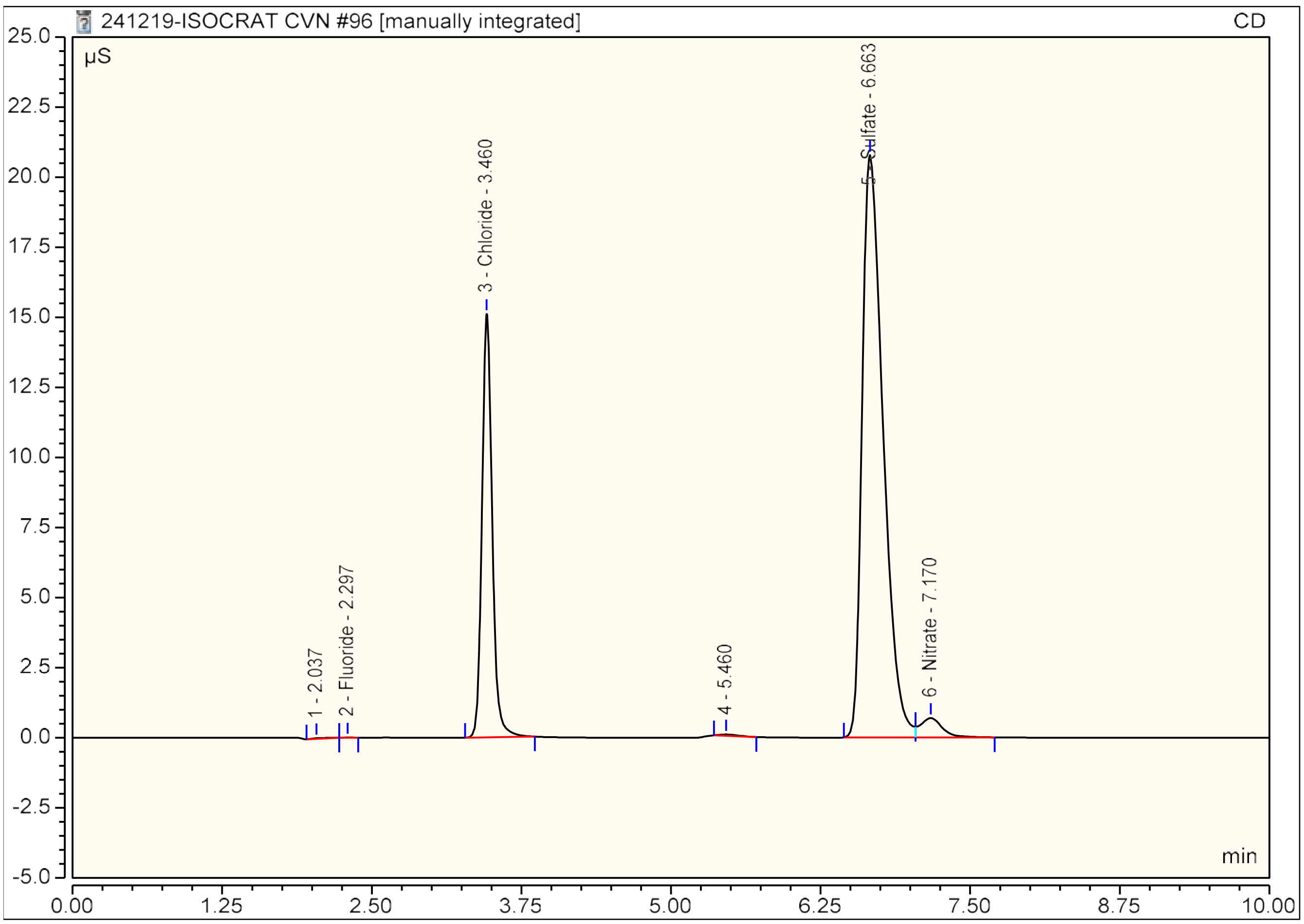
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.009 | 0.106 | 0.0388 |
| 3 | 3.45 | **Chloride** | BMB* | 13.858 | 137.013 | 37.0135 |
| 5 | 5.91 | **Bromide** | BMB^ | 0.001 | 0.007 | 0.0355 |
| 6 | 6.29 | **Sulfate** | BM *^ | 37.905 | 103.836 | 133.4624 |
| 7 | 7.11 | **Nitrate** | MB* | 1.717 | 7.485 | 1.9286 |
| | | **TOTAL:** | | 53.49 | 248.45 | 172.48 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2473722-01; 10X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 01:48** | *Run Time:* | **10.00** |

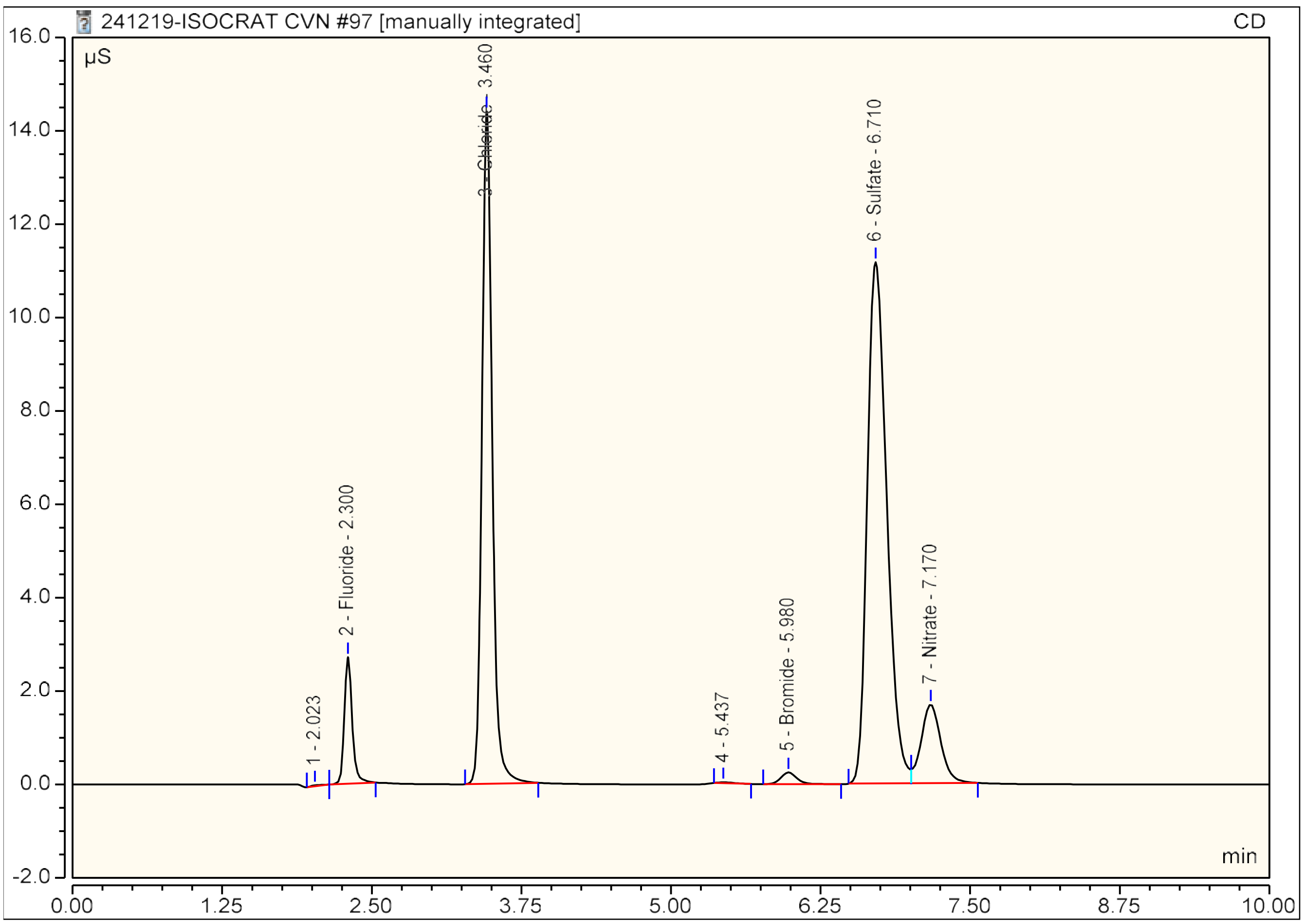
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.001 | 0.011 | 0.2297 |
| 3 | 3.46 | **Chloride** | BMB* | 1.500 | 15.111 | 41.1190 |
| 5 | 6.66 | **Sulfate** | BM * | 4.215 | 20.767 | 150.1774 |
| 6 | 7.17 | **Nitrate** | MB* | 0.146 | 0.691 | 1.8746 |
| | | **TOTAL:** | | 5.86 | 36.58 | 193.40 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474167-01 MS** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 02:00** | *Run Time:* | **10.00** |

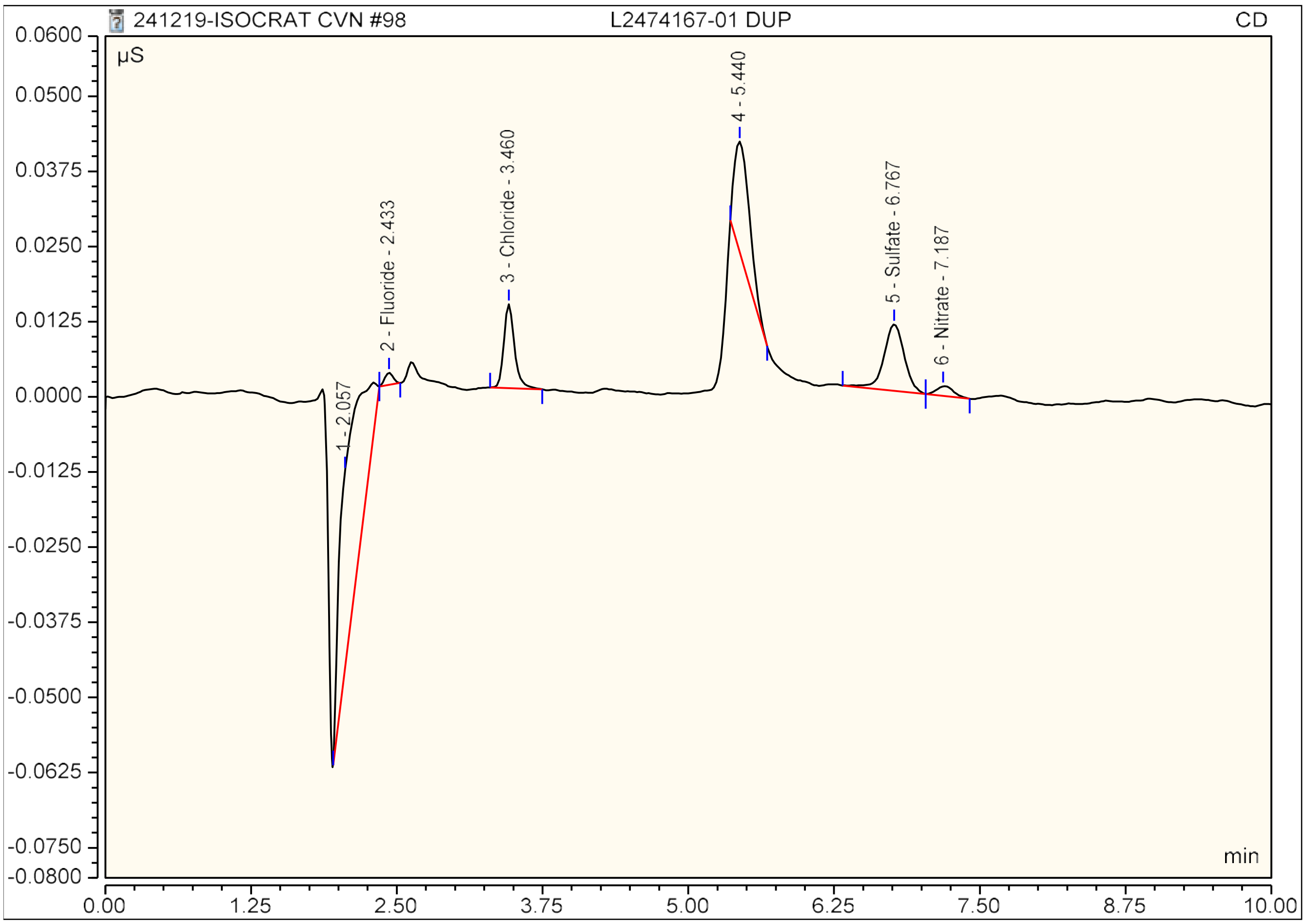
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.206 | 2.710 | 0.4121 |
| 3 | 3.46 | **Chloride** | BMB* | 1.438 | 14.405 | 3.9463 |
| 5 | 5.98 | **Bromide** | BMB | 0.039 | 0.251 | 0.3648 |
| 6 | 6.71 | **Sulfate** | BM * | 2.106 | 11.164 | 7.6034 |
| 7 | 7.17 | **Nitrate** | MB* | 0.322 | 1.682 | 0.3820 |
| | | **TOTAL:** | | 4.11 | 30.21 | 12.71 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474167-01 DUP** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 02:12** | *Run Time:* | **10.00** |

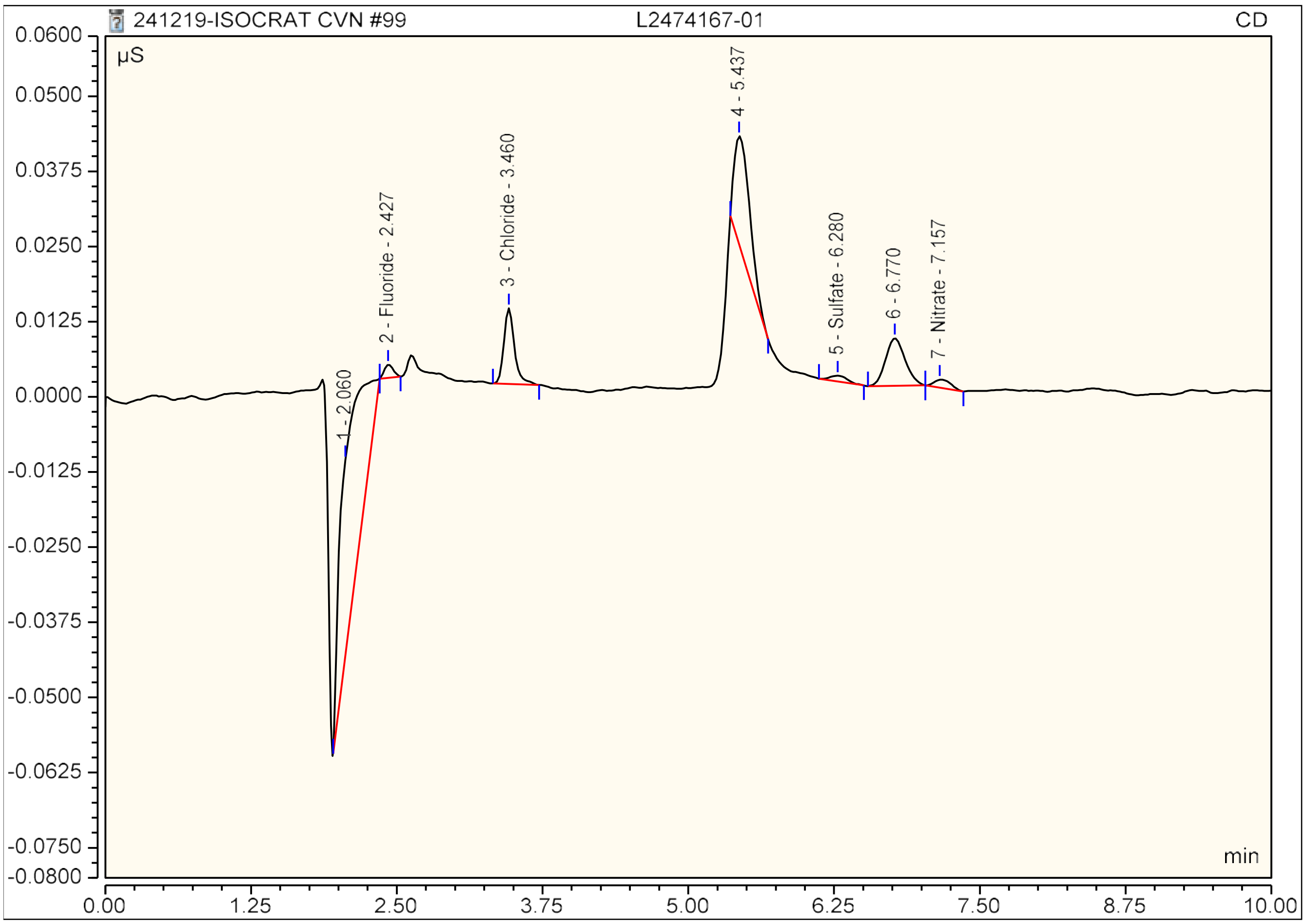
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.43 | **Fluoride** | BMB | 0.000 | 0.002 | 0.0219 |
| 3 | 3.46 | **Chloride** | BMB | 0.001 | 0.014 | 0.1216 |
| 5 | 6.77 | **Sulfate** | BMB | 0.002 | 0.011 | 0.2083 |
| 6 | 7.19 | **Nitrate** | BMB | 0.000 | 0.002 | 0.0255 |
| | | **TOTAL:** | | 0.00 | 0.03 | 0.38 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474167-01** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 02:24** | *Run Time:* | **10.00** |

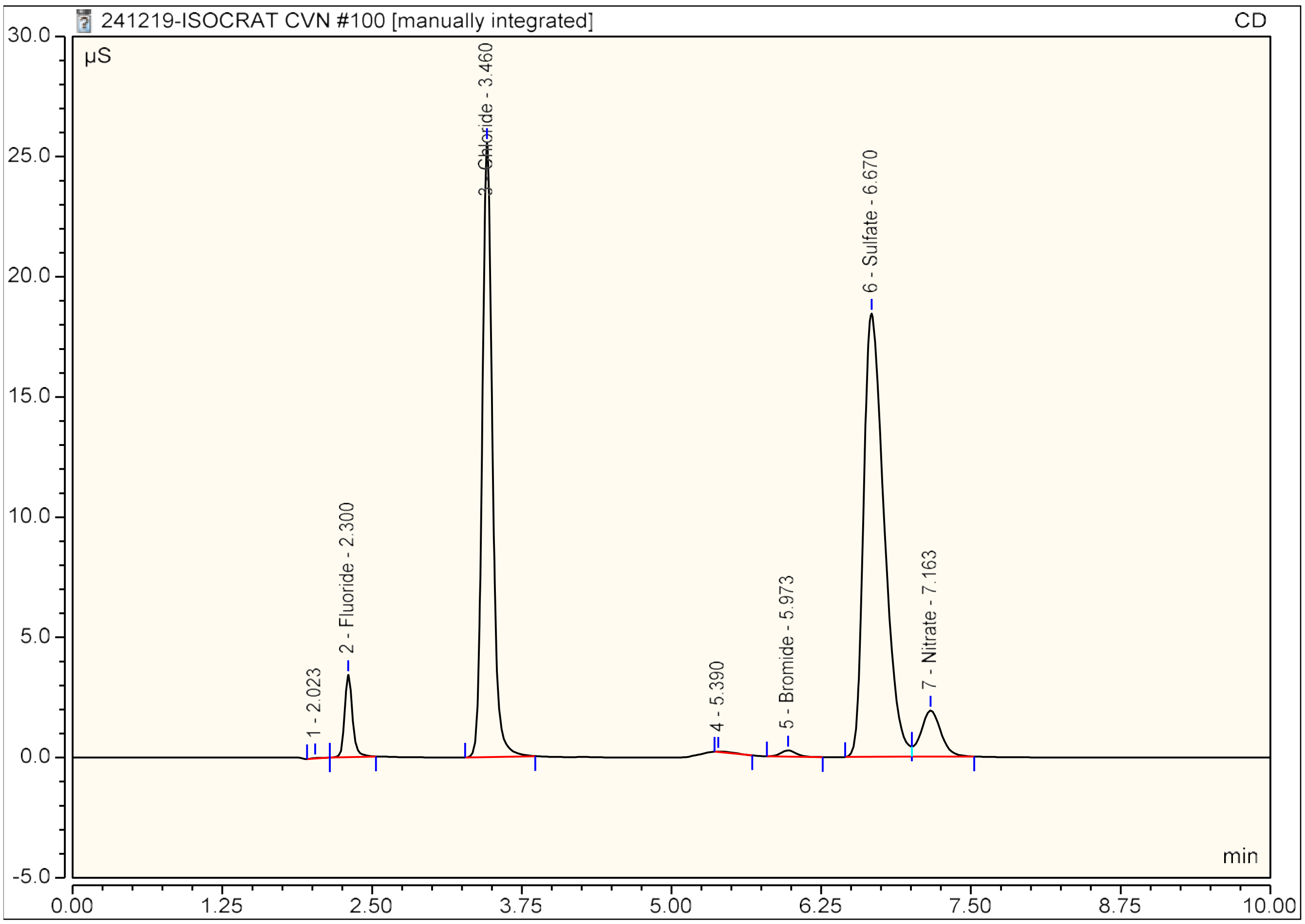
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.43 | **Fluoride** | BMB | 0.000 | 0.002 | 0.0220 |
| 3 | 3.46 | **Chloride** | BMB | 0.001 | 0.013 | 0.1212 |
| 5 | 6.28 | **Sulfate** | BMB | 0.000 | 0.001 | 0.2010 |
| 7 | 7.16 | **Nitrate** | BMB | 0.000 | 0.001 | 0.0255 |
| | | **TOTAL:** | | 0.00 | 0.02 | 0.37 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474281-04 MS** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 02:36** | *Run Time:* | **10.00** |

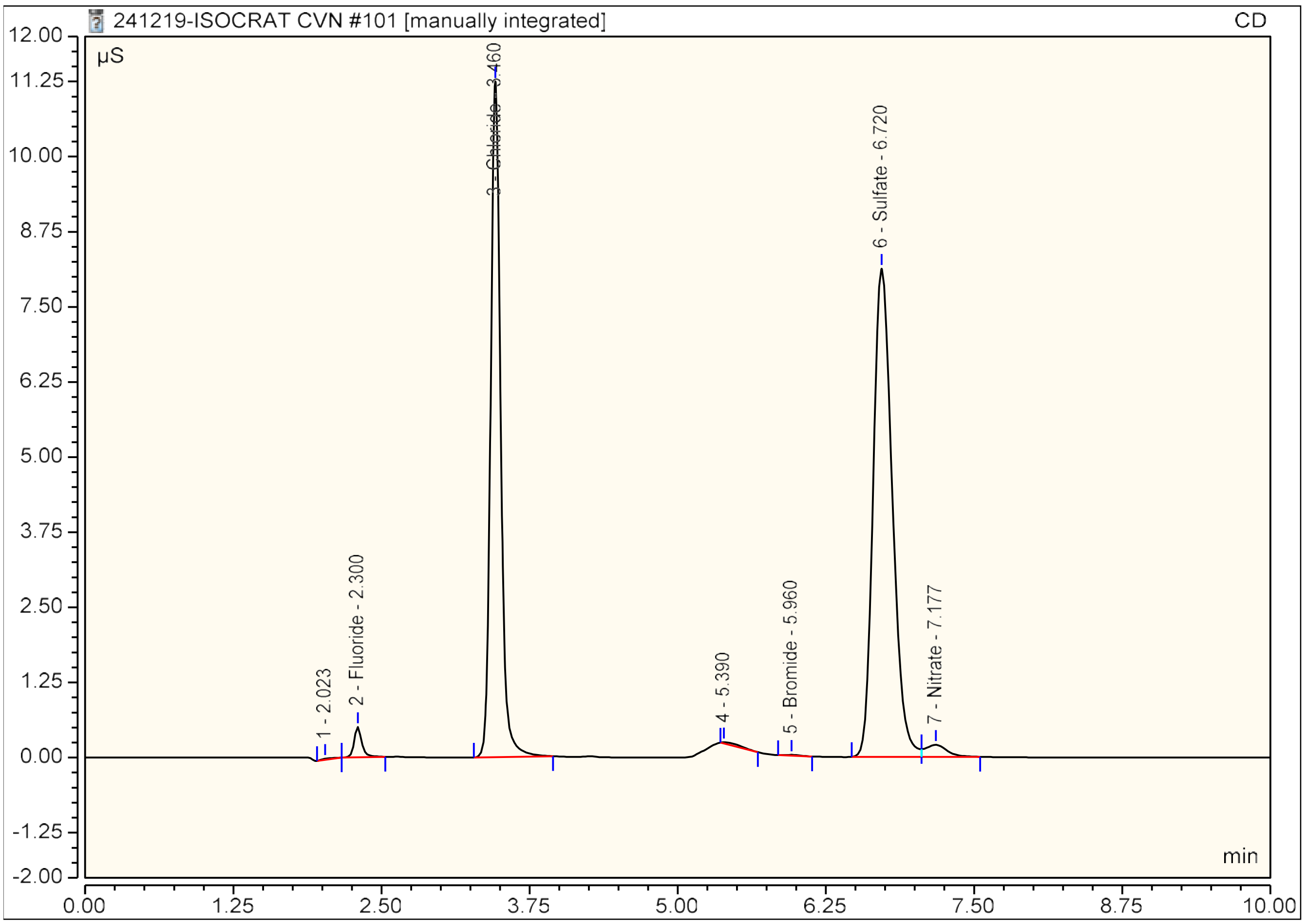
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.259 | 3.418 | 0.5143 |
| 3 | 3.46 | **Chloride** | BMB* | 2.524 | 25.556 | 6.8375 |
| 5 | 5.97 | **Bromide** | BMB | 0.038 | 0.260 | 0.3539 |
| 6 | 6.67 | **Sulfate** | BM * | 3.656 | 18.442 | 13.0544 |
| 7 | 7.16 | **Nitrate** | MB* | 0.368 | 1.921 | 0.4338 |
| | | **TOTAL:** | | 6.85 | 49.60 | 21.19 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474281-04 DUP** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 02:48** | *Run Time:* | **10.00** |

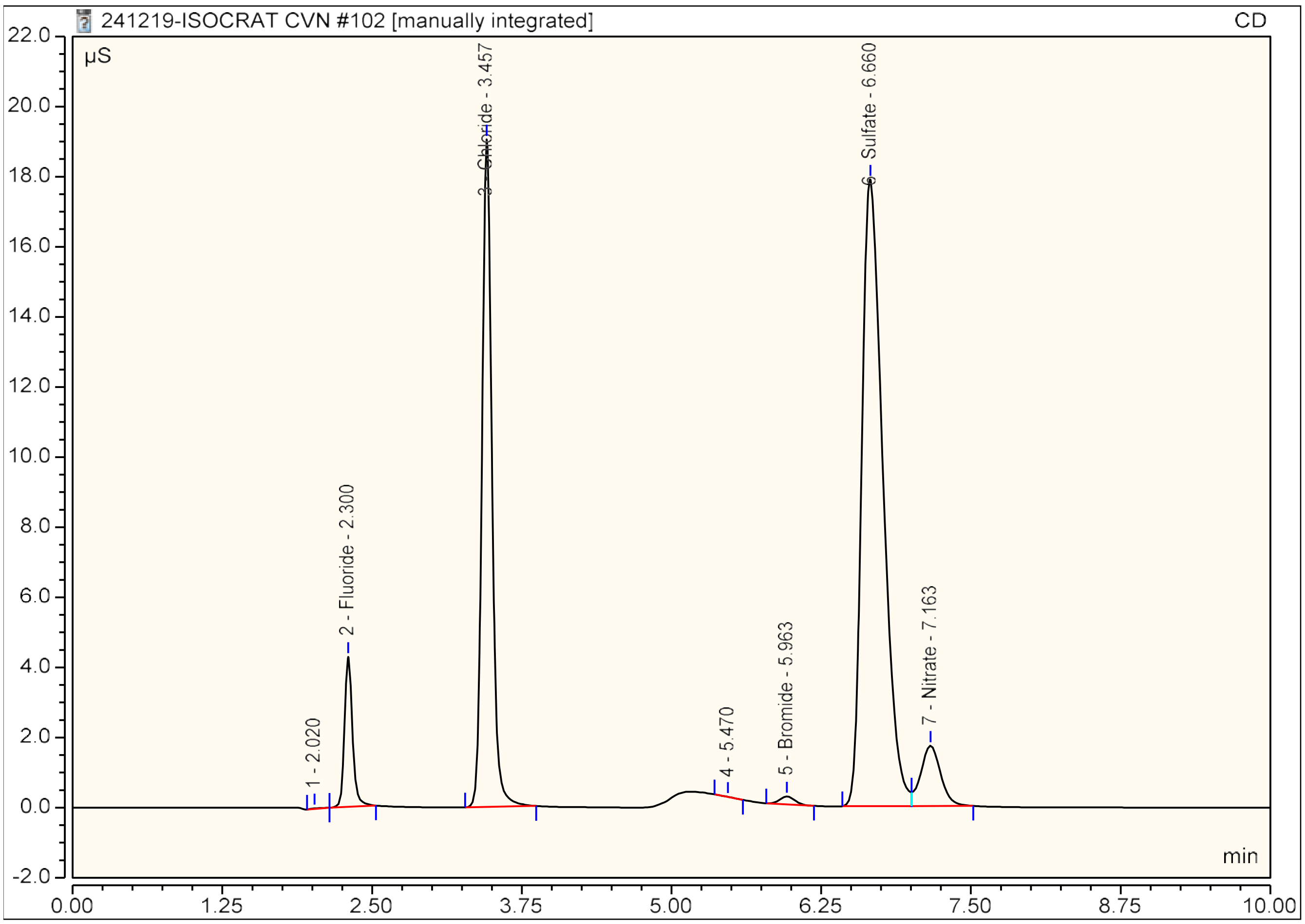
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.039 | 0.506 | 0.0959 |
| 3 | 3.46 | **Chloride** | BMB* | 1.099 | 11.242 | 3.0433 |
| 5 | 5.96 | **Bromide** | BMB | 0.002 | 0.013 | 0.0453 |
| 6 | 6.72 | **Sulfate** | BM * | 1.521 | 8.123 | 5.5469 |
| 7 | 7.18 | **Nitrate** | MB* | 0.042 | 0.200 | 0.0720 |
| | | **TOTAL:** | | 2.70 | 20.08 | 8.80 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474281-08 MS** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 03:00** | *Run Time:* | **10.00** |

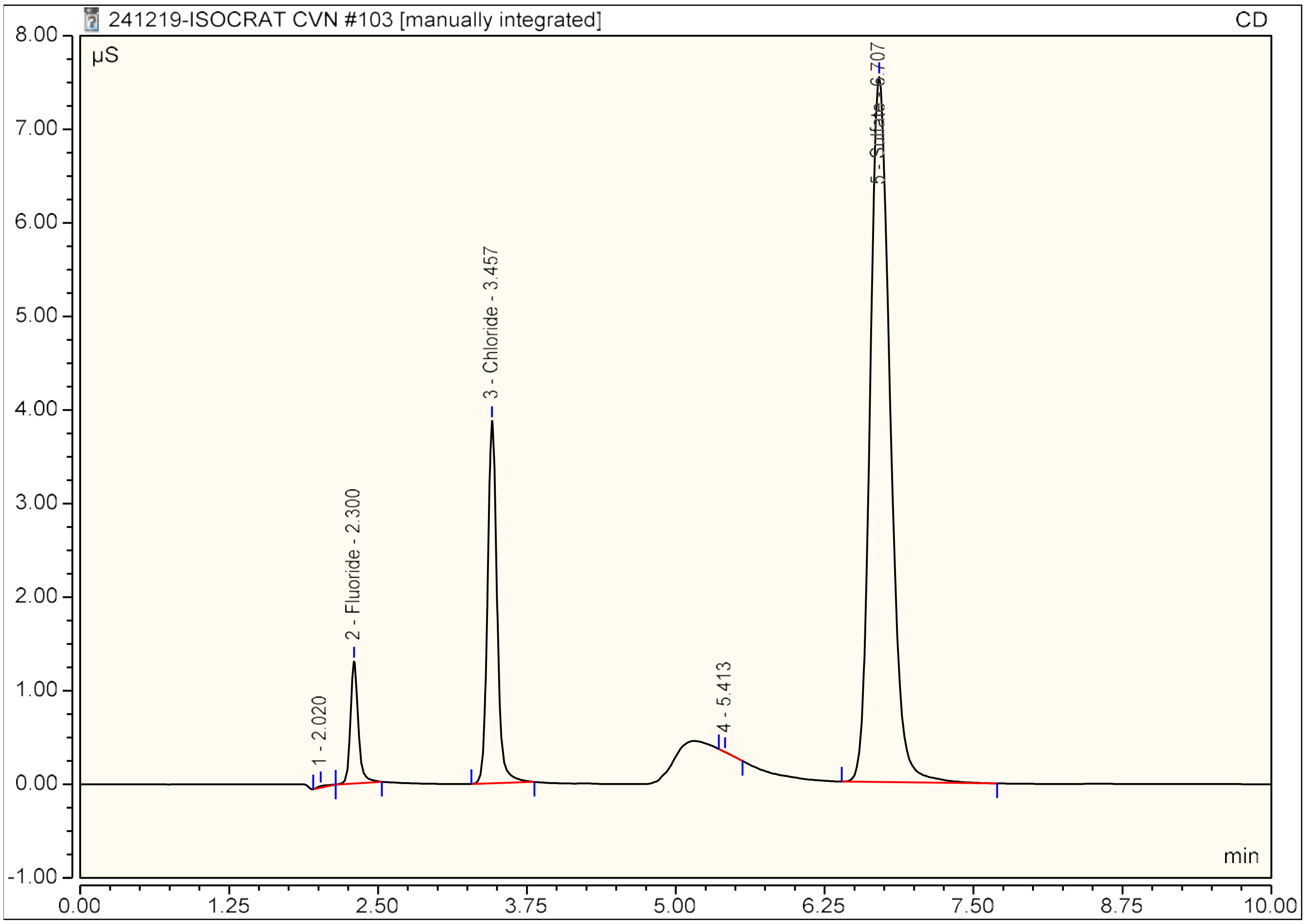
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.328 | 4.279 | 0.6445 |
| 3 | 3.46 | **Chloride** | BMB* | 1.834 | 19.042 | 4.9996 |
| 5 | 5.96 | **Bromide** | BMB | 0.033 | 0.227 | 0.3140 |
| 6 | 6.66 | **Sulfate** | BM * | 3.640 | 17.876 | 12.9961 |
| 7 | 7.16 | **Nitrate** | MB* | 0.332 | 1.717 | 0.3930 |
| | | **TOTAL:** | | 6.17 | 43.14 | 19.35 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474281-08 DUP** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 03:12** | *Run Time:* | **10.00** |

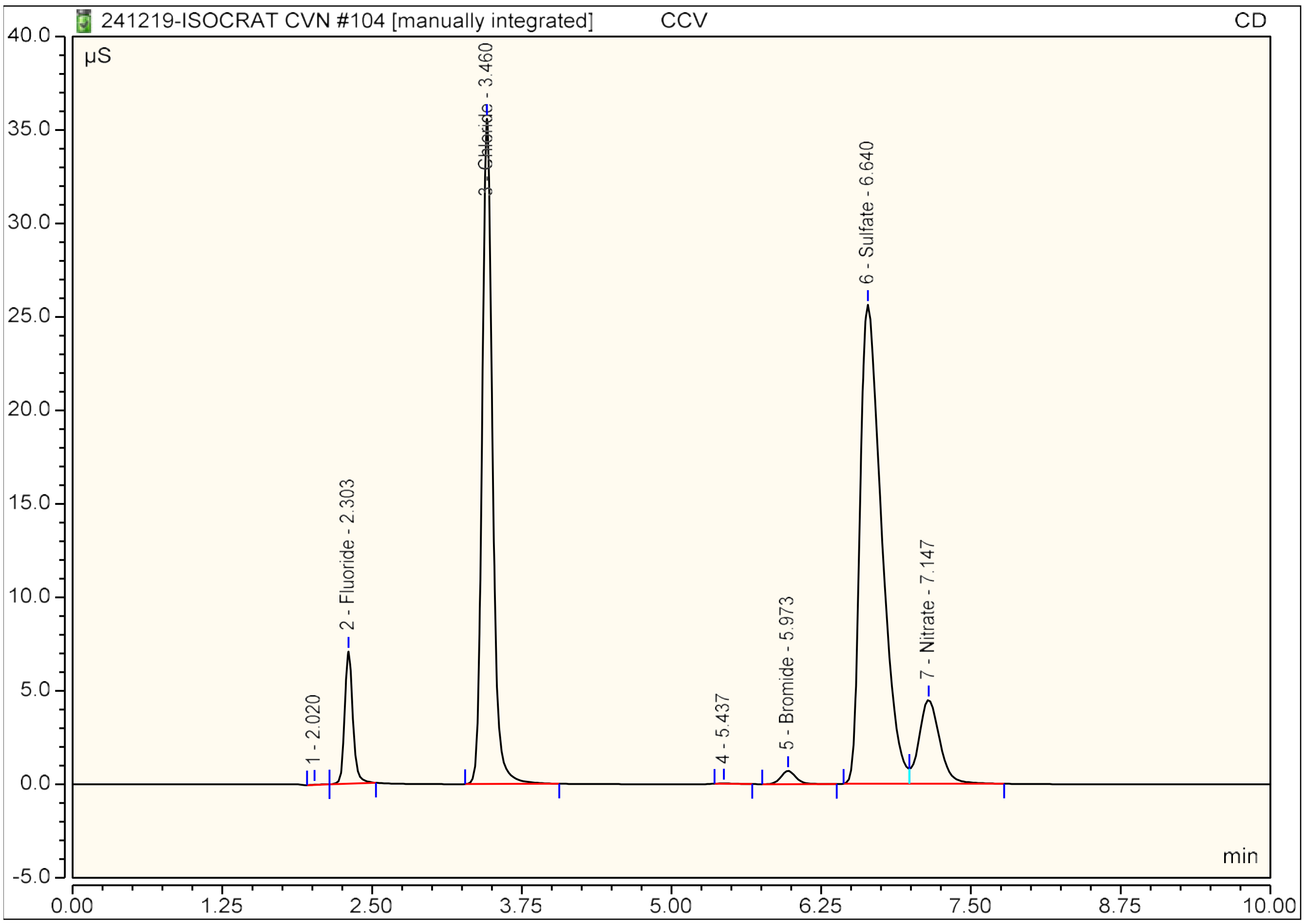
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.099 | 1.304 | 0.2094 |
| 3 | 3.46 | **Chloride** | BMB* | 0.361 | 3.873 | 1.0796 |
| 5 | 6.71 | **Sulfate** | BMB | 1.479 | 7.534 | 5.4012 |
| | | **TOTAL:** | | 1.94 | 12.71 | 6.69 |



## 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:* | **20-Dec-2024 / 03:24** | *Run Time:* | **10.00** |

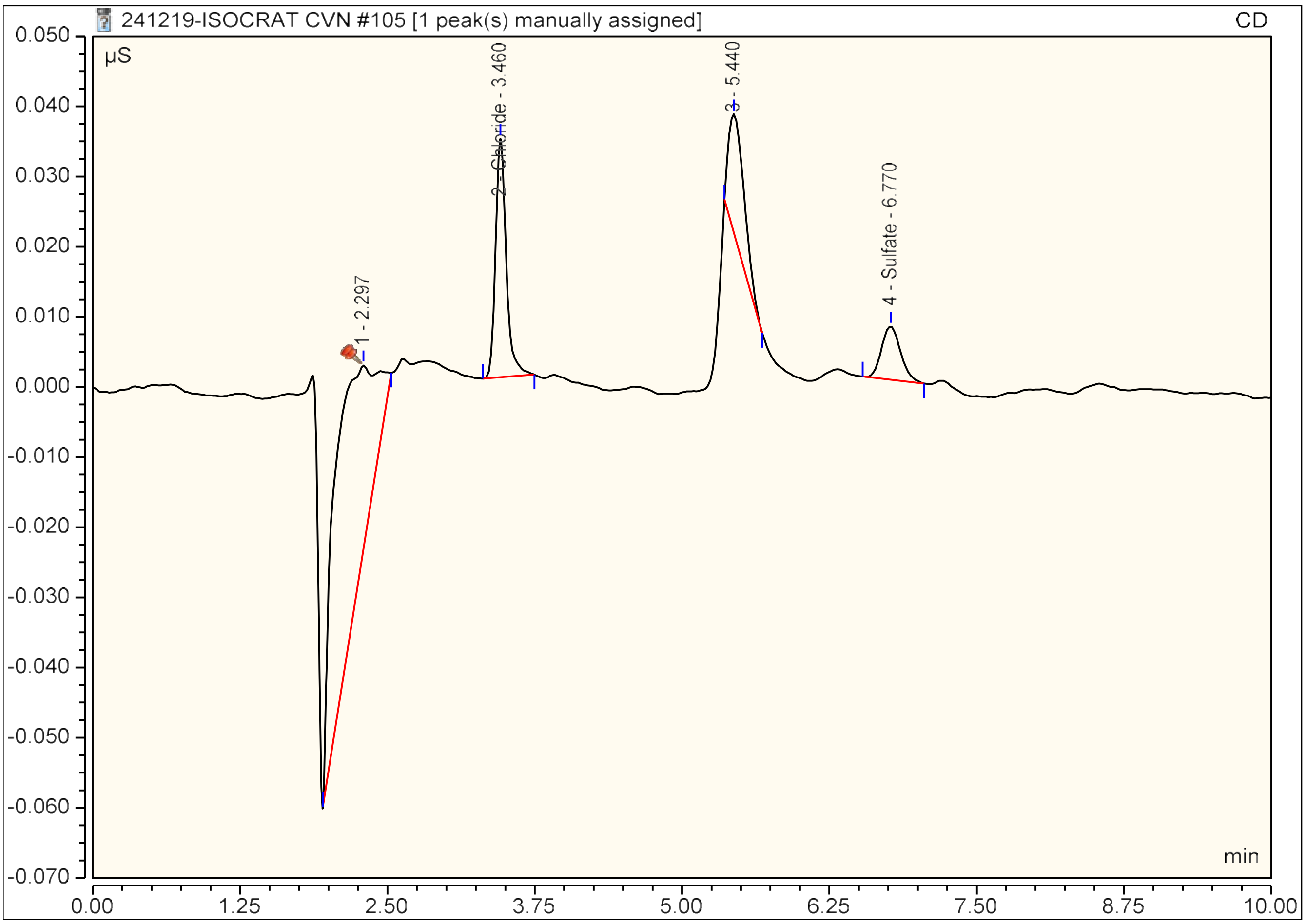
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.553 | 7.071 | 1.0723 |
| 3 | 3.46 | **Chloride** | BMB* | 3.596 | 35.579 | 9.6917 |
| 5 | 5.97 | **Bromide** | BMB | 0.104 | 0.705 | 0.9228 |
| 6 | 6.64 | **Sulfate** | BM * | 5.329 | 25.616 | 18.9345 |
| 7 | 7.15 | **Nitrate** | MB* | 0.894 | 4.474 | 1.0164 |
| | | **TOTAL:** | | 10.48 | 73.45 | 31.64 |



## 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:* | **20-Dec-2024 / 03:36** | *Run Time:* | **10.00** |

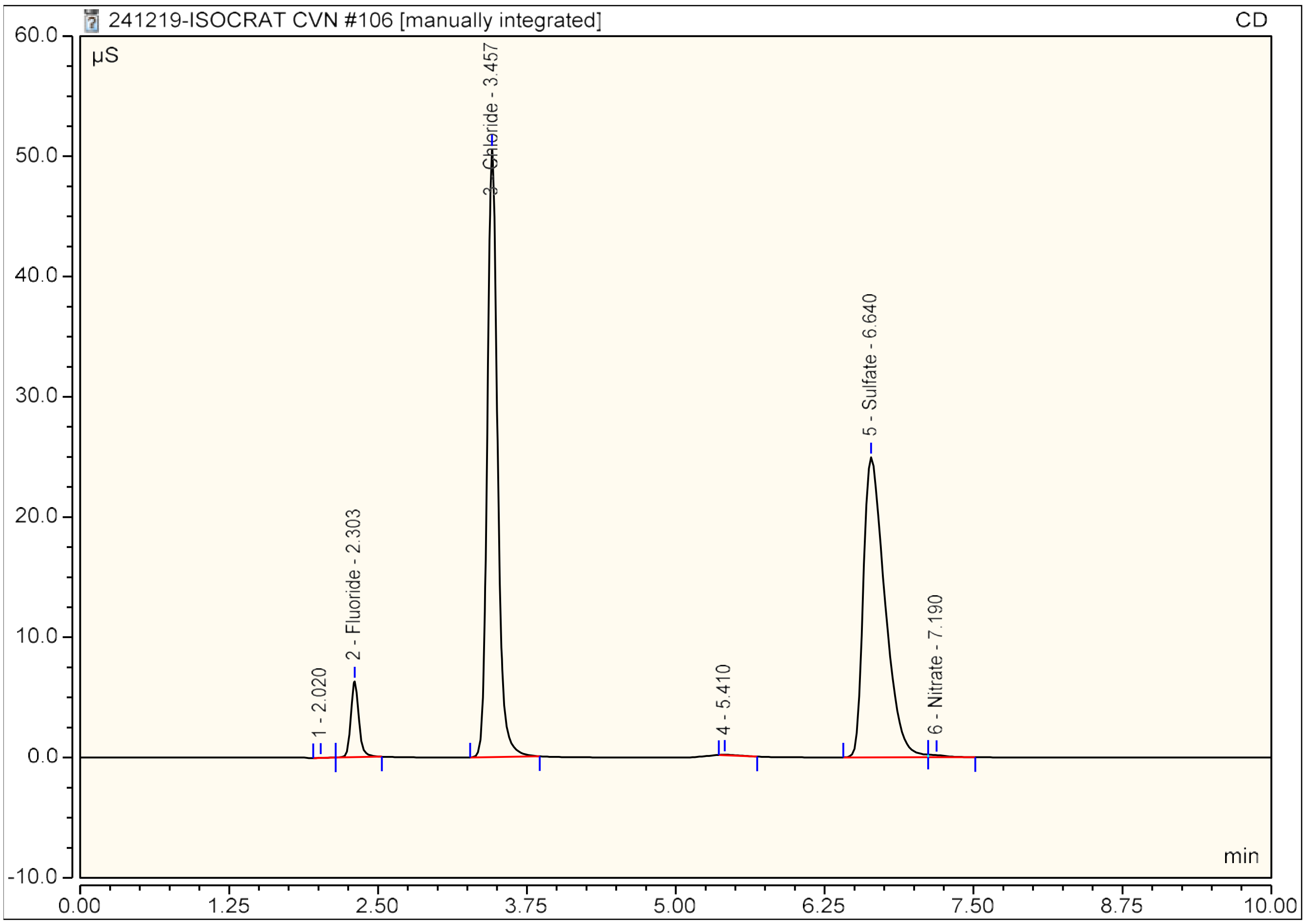
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 3.46 | **Chloride** | BMB | 0.004 | 0.034 | 0.1271 |
| 4 | 6.77 | **Sulfate** | BMB | 0.001 | 0.008 | 0.2054 |
| | | **TOTAL:** | | 0.00 | 0.04 | 0.33 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L24734564-02; 10X F SO4** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **10.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 03:49** | *Run Time:* | **10.00** |

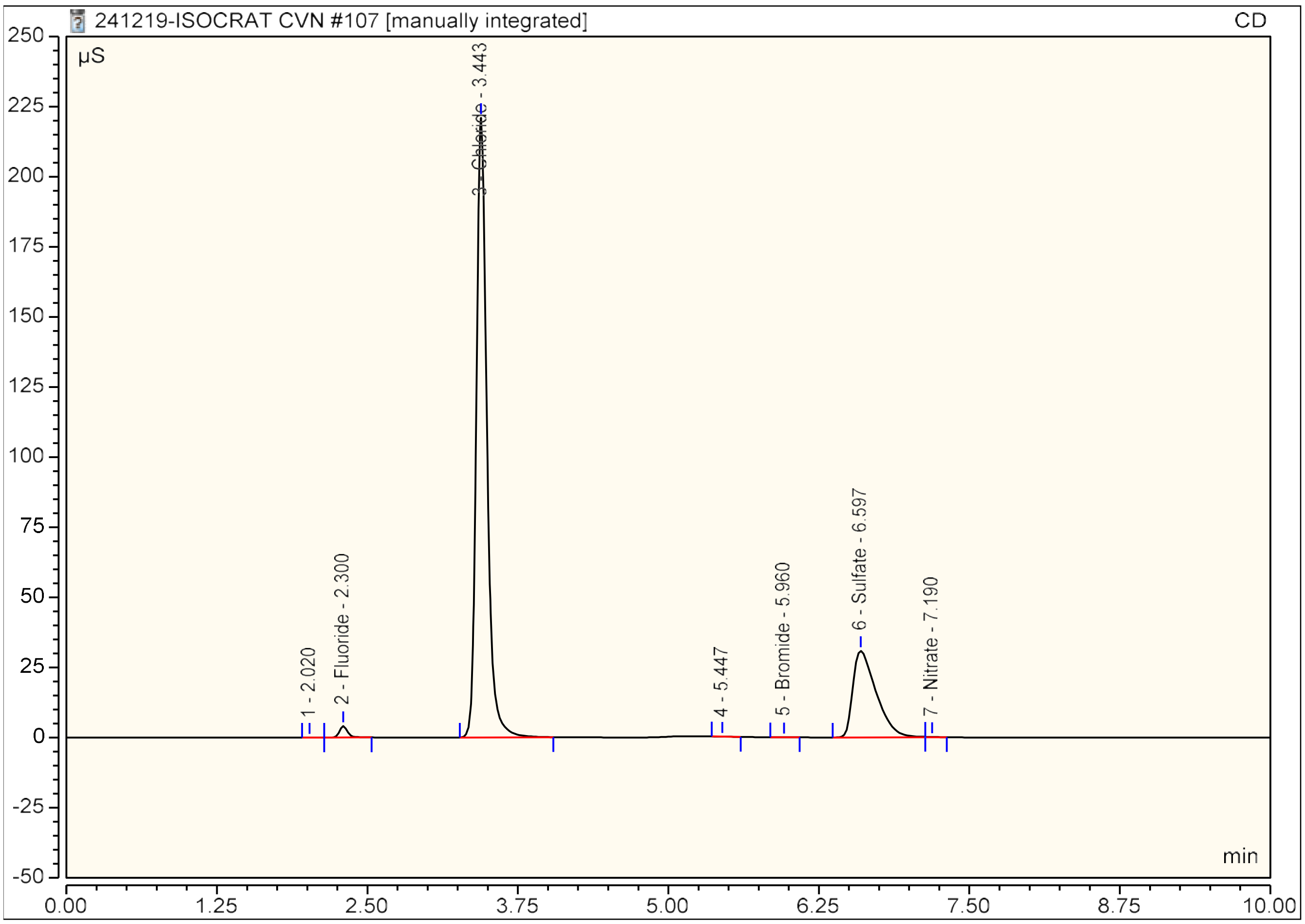
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.491 | 6.303 | 9.5315 |
| 3 | 3.46 | **Chloride** | BMB* | 5.098 | 50.531 | 136.9073 |
| 5 | 6.64 | **Sulfate** | BM * | 5.239 | 24.944 | 186.1850 |
| 6 | 7.19 | **Nitrate** | MB* | 0.033 | 0.179 | 0.6138 |
| | | **TOTAL:** | | 10.86 | 81.96 | 333.24 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474278-02 SO4** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 04:01** | *Run Time:* | **10.00** |

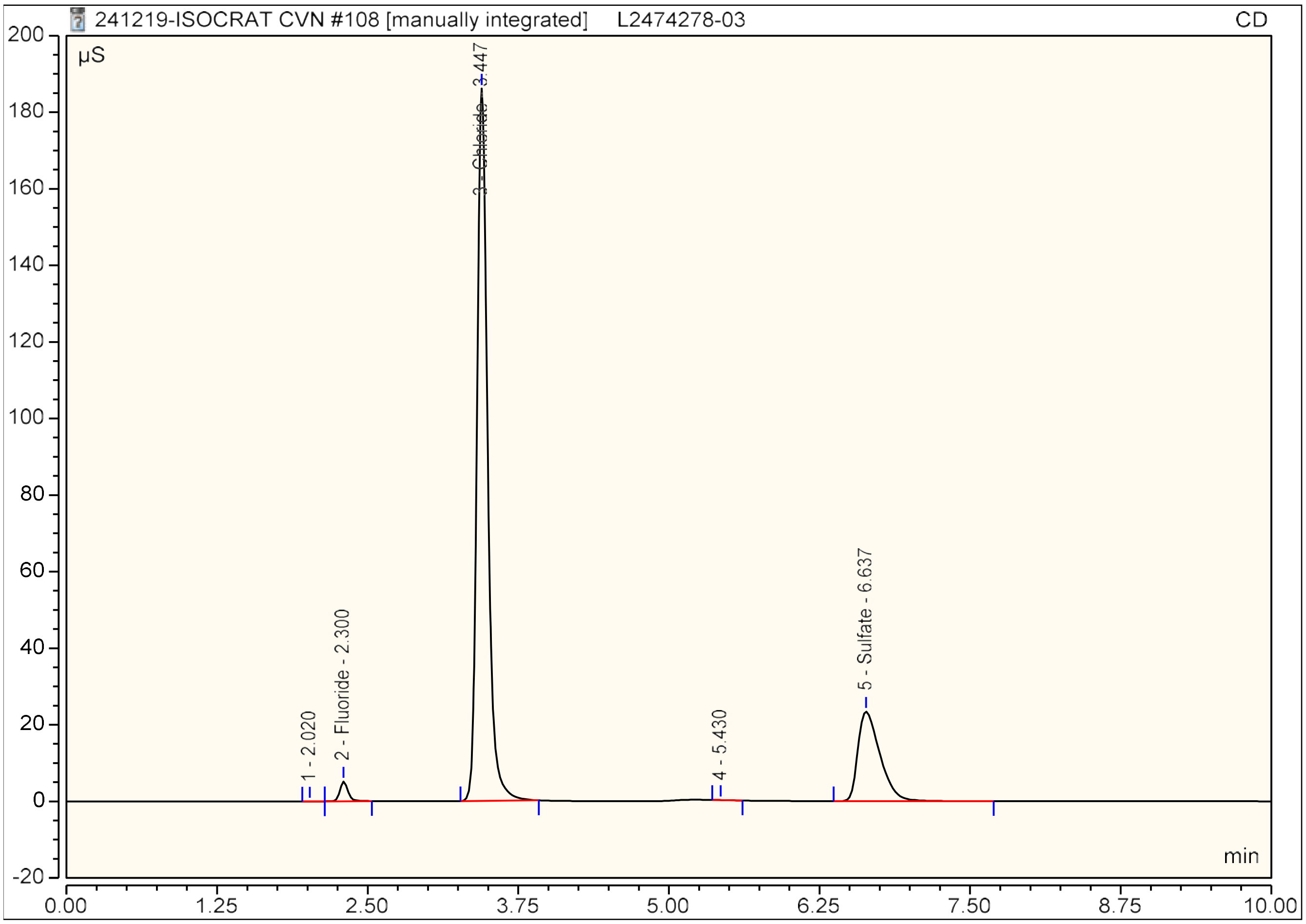
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.323 | 4.132 | 0.6353 |
| 3 | 3.44 | **Chloride** | BMB* | 22.484 | 220.958 | 59.9792 |
| 5 | 5.96 | **Bromide** | BMB | 0.001 | 0.011 | 0.0406 |
| 6 | 6.60 | **Sulfate** | BM * | 6.913 | 30.823 | 24.5044 |
| 7 | 7.19 | **Nitrate** | MB* | 0.016 | 0.128 | 0.0432 |
| | | **TOTAL:** | | 29.74 | 256.05 | 85.20 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474278-03** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 04:13** | *Run Time:* | **10.00** |

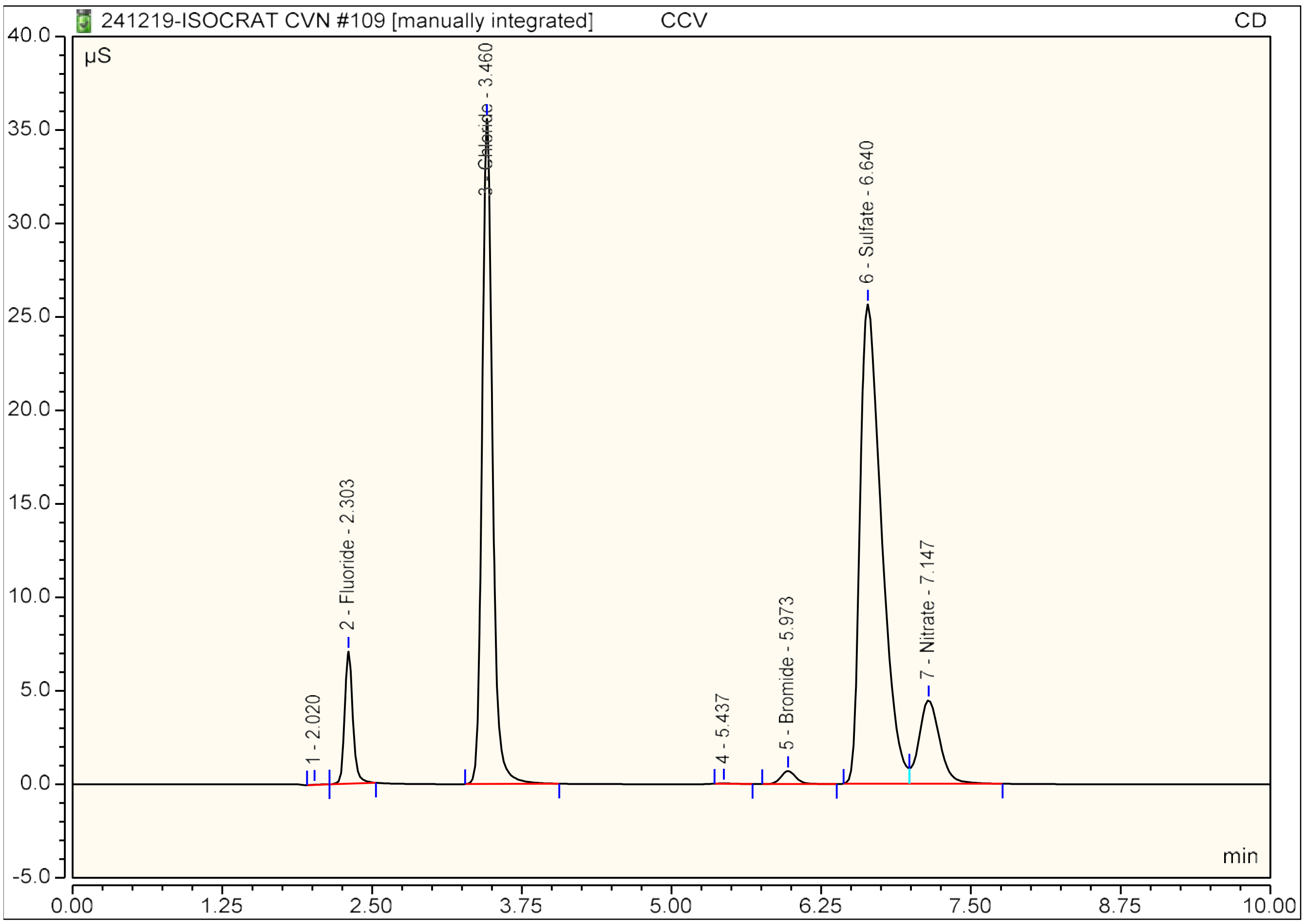
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.404 | 5.159 | 0.7887 |
| 3 | 3.45 | **Chloride** | BMB* | 18.968 | 186.093 | 50.6163 |
| 5 | 6.64 | **Sulfate** | BMB | 4.979 | 23.415 | 17.7046 |
| | | **TOTAL:** | | 24.35 | 214.67 | 69.11 |



## 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:* | **20-Dec-2024 / 04:25** | *Run Time:* | **10.00** |

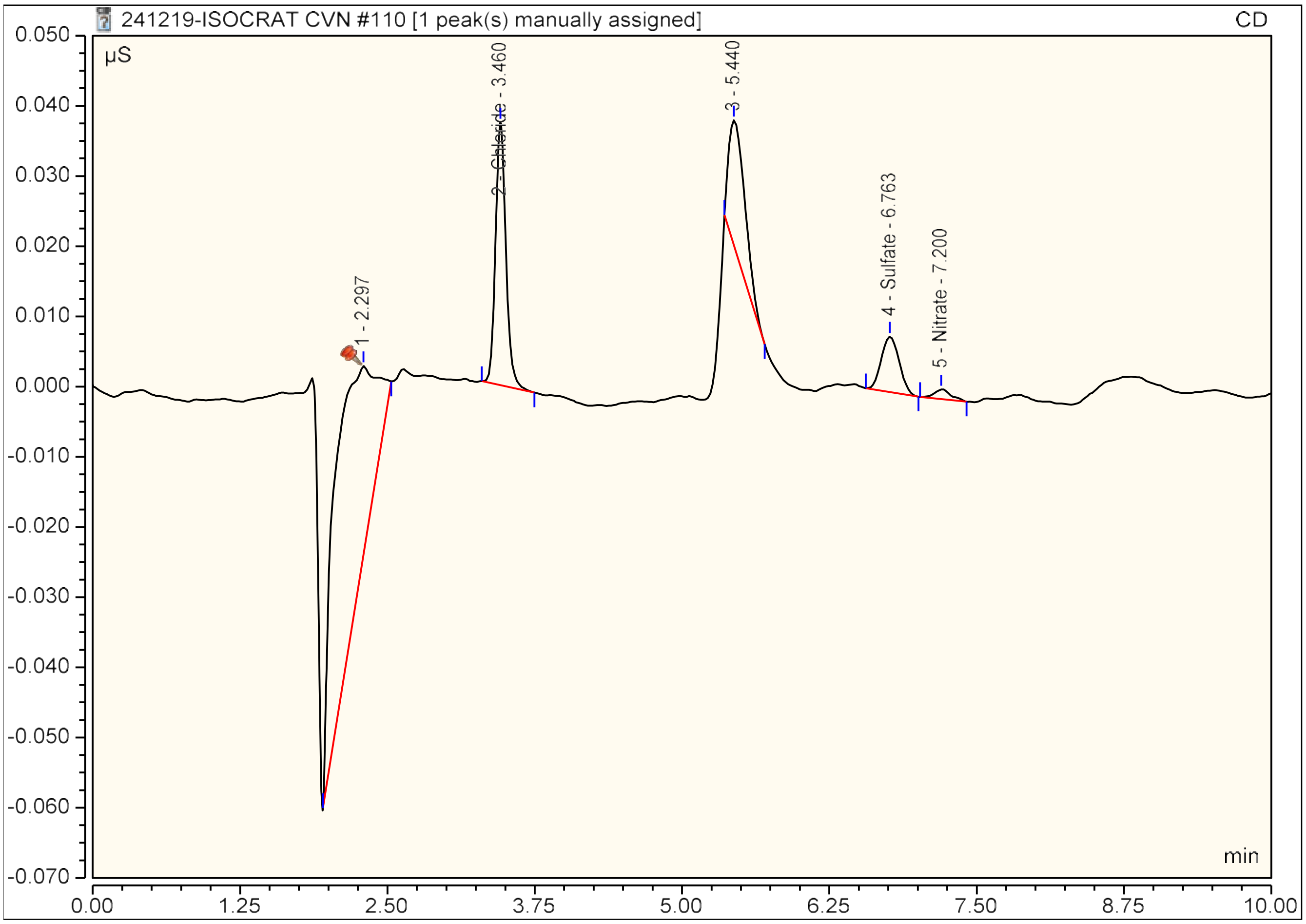
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.552 | 7.065 | 1.0697 |
| 3 | 3.46 | **Chloride** | BMB* | 3.601 | 35.579 | 9.7046 |
| 5 | 5.97 | **Bromide** | BMB | 0.104 | 0.702 | 0.9195 |
| 6 | 6.64 | **Sulfate** | BM * | 5.323 | 25.633 | 18.9150 |
| 7 | 7.15 | **Nitrate** | MB* | 0.893 | 4.462 | 1.0153 |
| | | **TOTAL:** | | 10.47 | 73.44 | 31.62 |



## 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:* | **20-Dec-2024 / 04:37** | *Run Time:* | **10.00** |

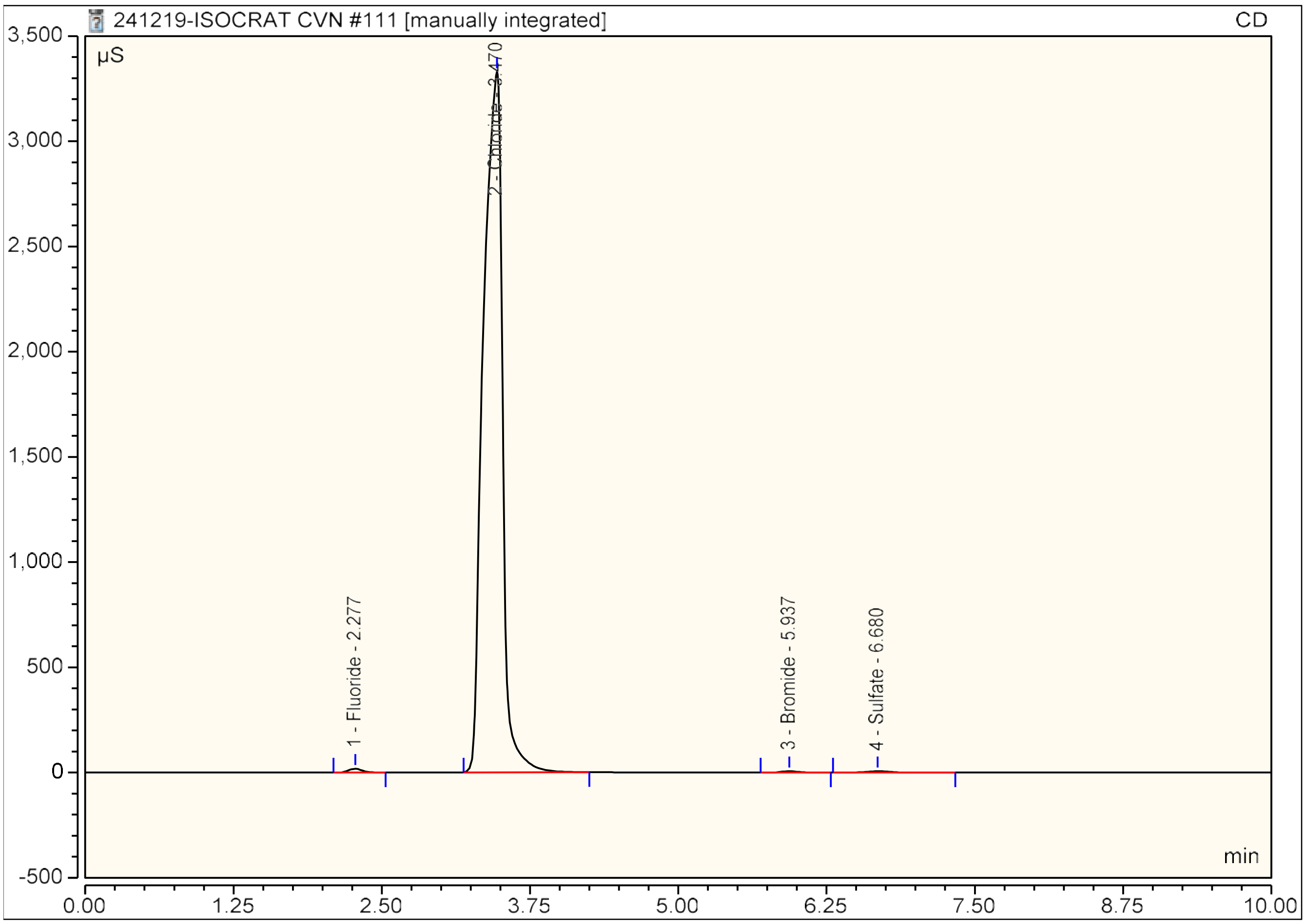
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 3.46 | **Chloride** | BMB | 0.004 | 0.037 | 0.1278 |
| 4 | 6.76 | **Sulfate** | BMB | 0.001 | 0.008 | 0.2053 |
| 5 | 7.20 | **Nitrate** | BMB | 0.000 | 0.001 | 0.0255 |
| | | **TOTAL:** | | 0.01 | 0.05 | 0.36 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **XL2474624-01 CL SO4** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 04:49** | *Run Time:* | **10.00** |

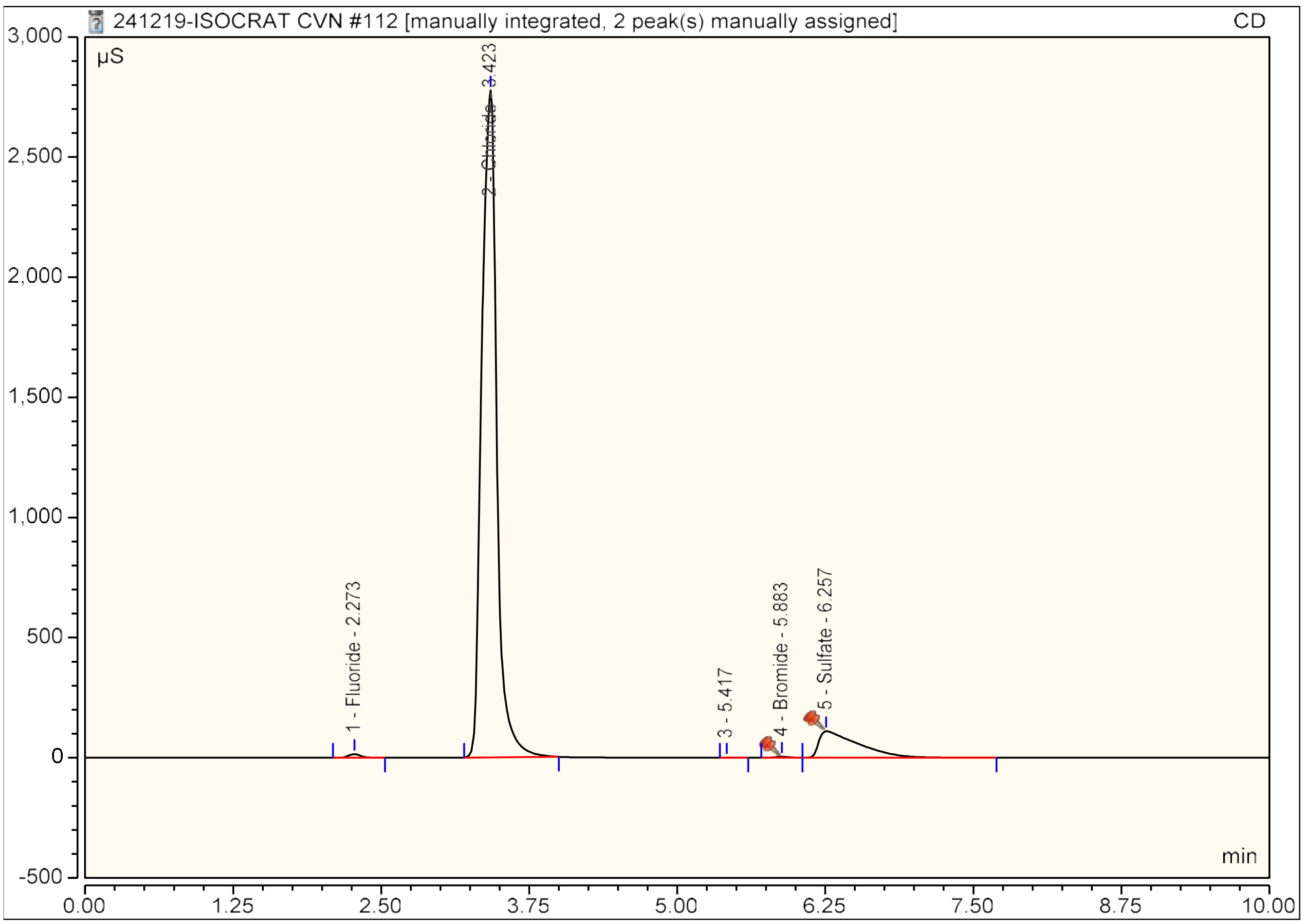
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 1 | 2.28 | **Fluoride** | BMB | 2.441 | 17.815 | 4.6573 |
| 2 | 3.47 | **Chloride** | BMB* | 621.228 | 3328.802 | 1654.0535 |
| 3 | 5.94 | **Bromide** | BMB | 1.018 | 6.057 | 8.7348 |
| 4 | 6.68 | **Sulfate** | BMB | 1.461 | 6.230 | 5.3359 |
| | | **TOTAL:** | | 626.15 | 3358.90 | 1672.78 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **XL2474624-02** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 05:01** | *Run Time:* | **10.00** |

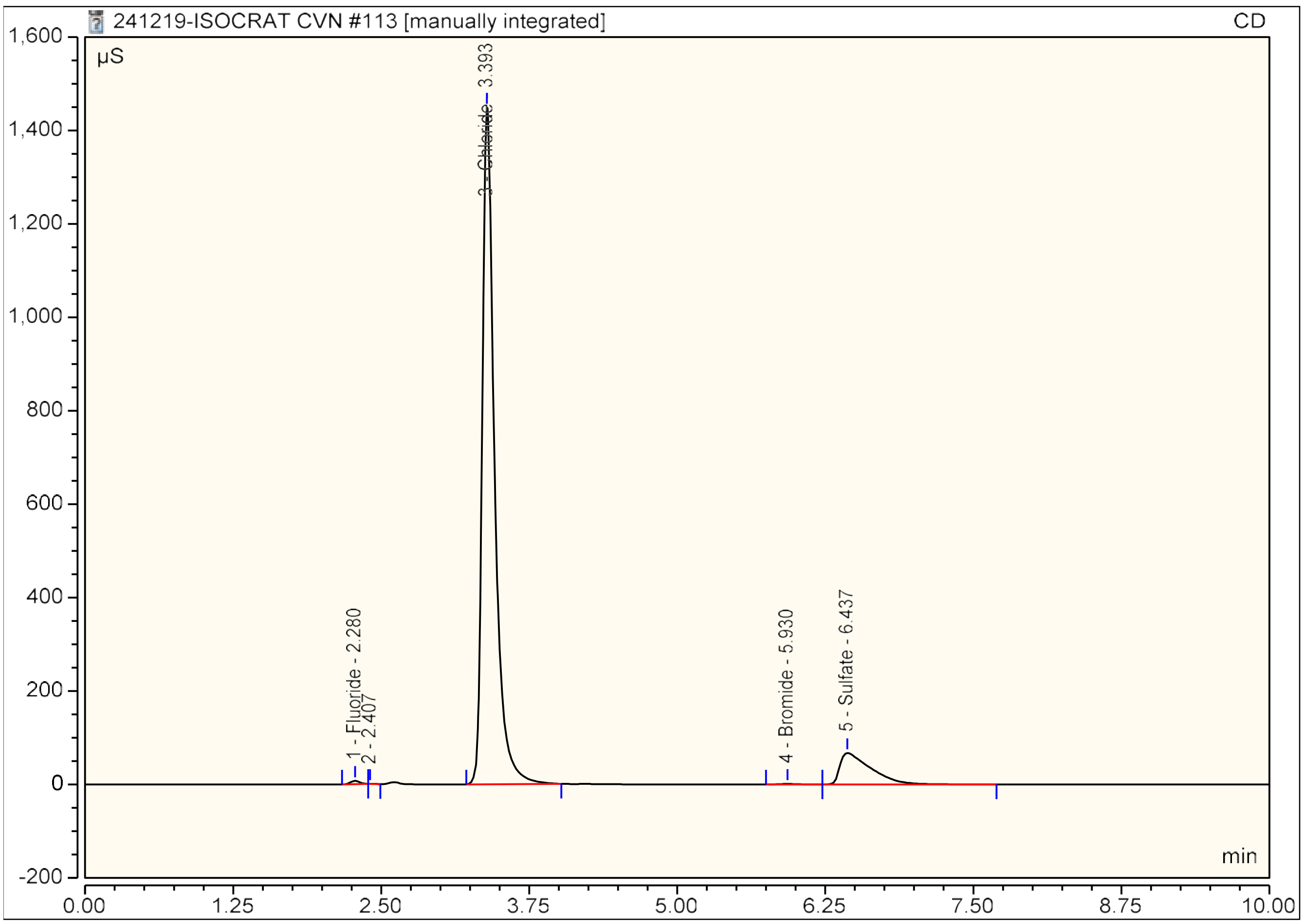
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 1 | 2.27 | **Fluoride** | BMB | 1.805 | 15.237 | 3.4489 |
| 2 | 3.42 | **Chloride** | BMB* | 406.255 | 2775.865 | 1081.7159 |
| 4 | 5.88 | **Bromide** | BMB^ | 0.480 | 3.532 | 4.1331 |
| 5 | 6.26 | **Sulfate** | BMB^ | 42.446 | 110.459 | 149.4247 |
| | | **TOTAL:** | | 450.98 | 2905.09 | 1238.72 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **XL2474624-03** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 05:13** | *Run Time:* | **10.00** |

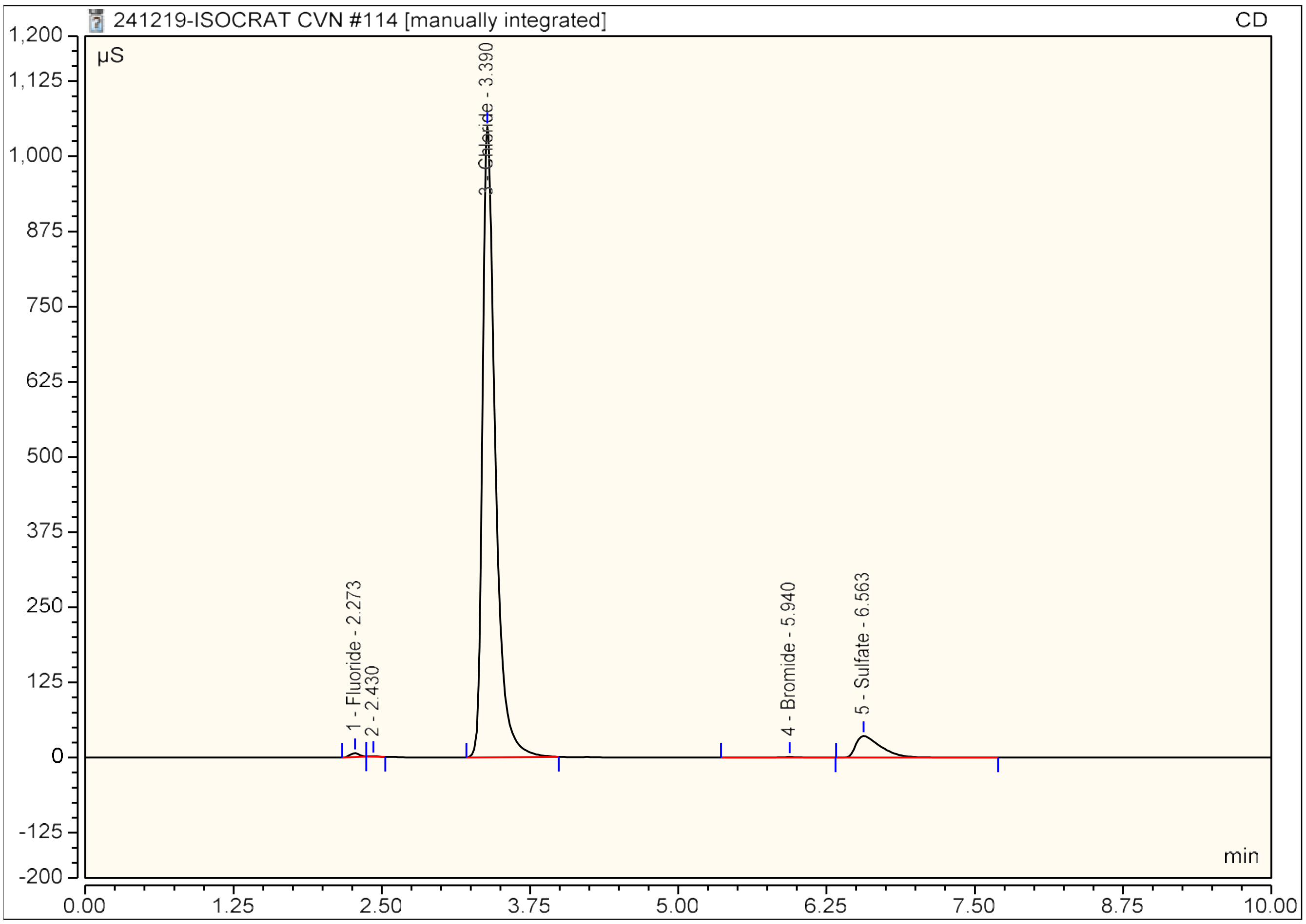
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 1 | 2.28 | **Fluoride** | BMB | 0.601 | 6.853 | 1.1635 |
| 3 | 3.39 | **Chloride** | BMB* | 174.108 | 1448.445 | 463.6562 |
| 4 | 5.93 | **Bromide** | BMB | 0.181 | 1.218 | 1.5815 |
| 5 | 6.44 | **Sulfate** | BMB | 20.255 | 67.384 | 71.4092 |
| | | **TOTAL:** | | 195.15 | 1523.90 | 537.81 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474624-04** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **1.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 05:25** | *Run Time:* | **10.00** |

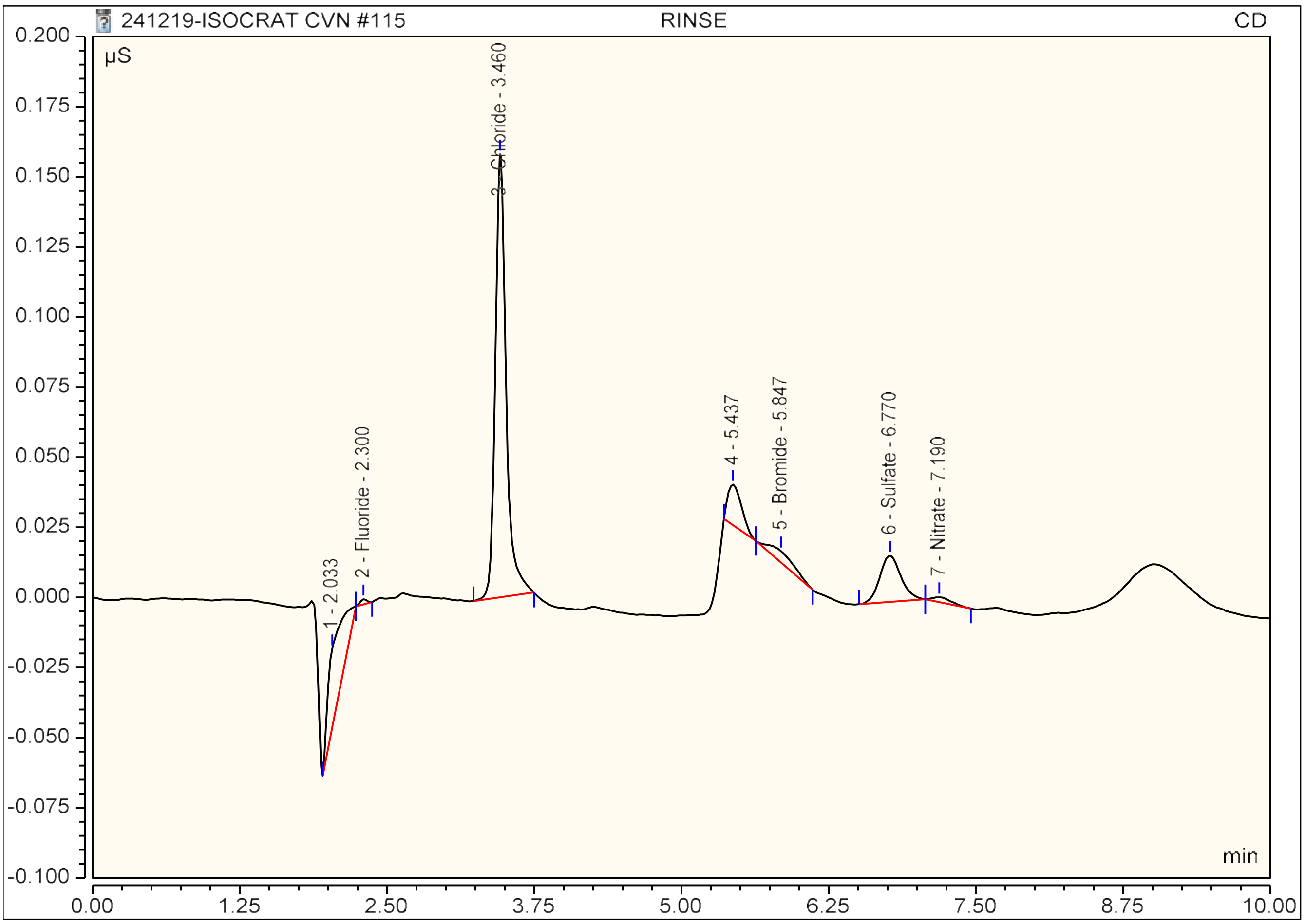
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 1 | 2.27 | **Fluoride** | BMB | 0.563 | 6.310 | 1.0902 |
| 3 | 3.39 | **Chloride** | BMB* | 132.209 | 1048.344 | 352.1067 |
| 4 | 5.94 | **Bromide** | BMB | 0.213 | 0.926 | 1.8498 |
| 5 | 6.56 | **Sulfate** | BMB | 8.720 | 35.837 | 30.8559 |
| | | **TOTAL:** | | 141.70 | 1091.42 | 385.90 |



# 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:* | **20-Dec-2024 / 05:37** | *Run Time:* | **10.00** |

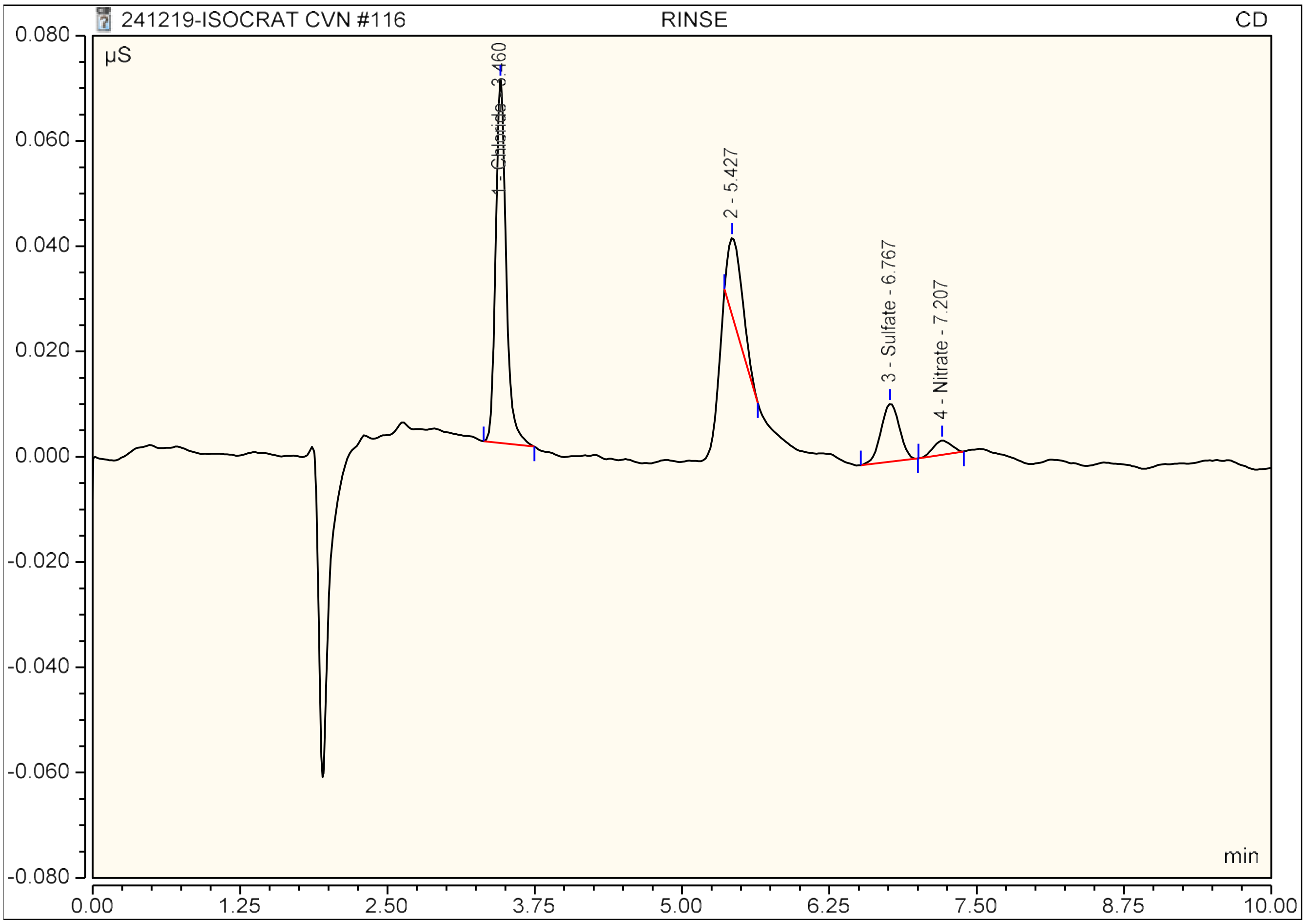
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.000 | 0.002 | 0.0218 |
| 3 | 3.46 | **Chloride** | BMB | 0.017 | 0.158 | 0.1624 |
| 5 | 5.85 | **Bromide** | BMB | 0.001 | 0.004 | 0.0387 |
| 6 | 6.77 | **Sulfate** | BMB | 0.003 | 0.017 | 0.2126 |
| 7 | 7.19 | **Nitrate** | BMB | 0.000 | 0.002 | 0.0256 |
| | | **TOTAL:** | | 0.02 | 0.18 | 0.46 |



## 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:* | **20-Dec-2024 / 05:49** | *Run Time:* | **10.00** |

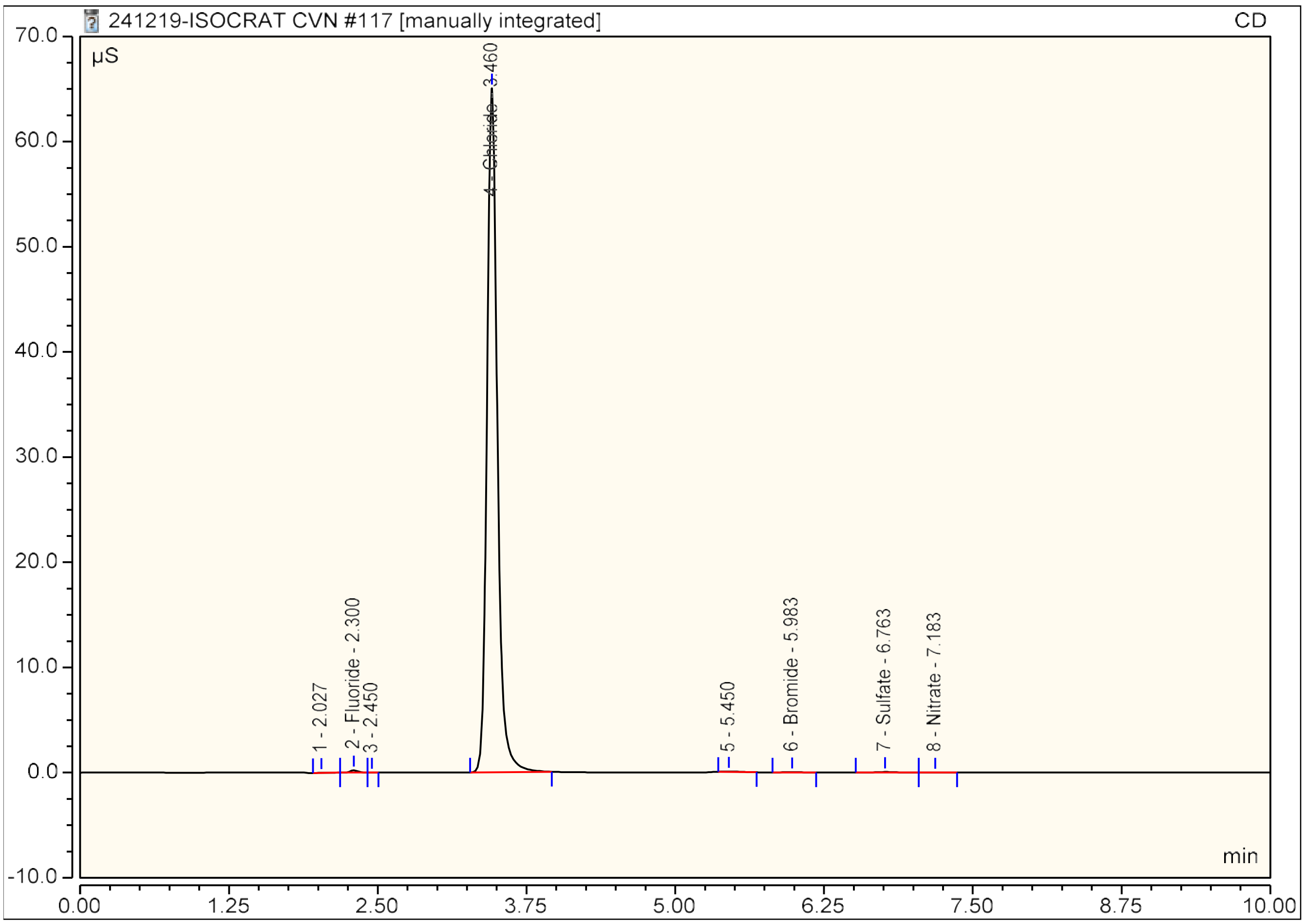
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 1 | 3.46 | **Chloride** | BMB | 0.007 | 0.069 | 0.1364 |
| 3 | 6.77 | **Sulfate** | BMB | 0.002 | 0.011 | 0.2075 |
| 4 | 7.21 | **Nitrate** | BMB | 0.000 | 0.003 | 0.0258 |
| | | **TOTAL:** | | 0.01 | 0.08 | 0.37 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474624-01; 100X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **100.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 06:02** | *Run Time:* | **10.00** |

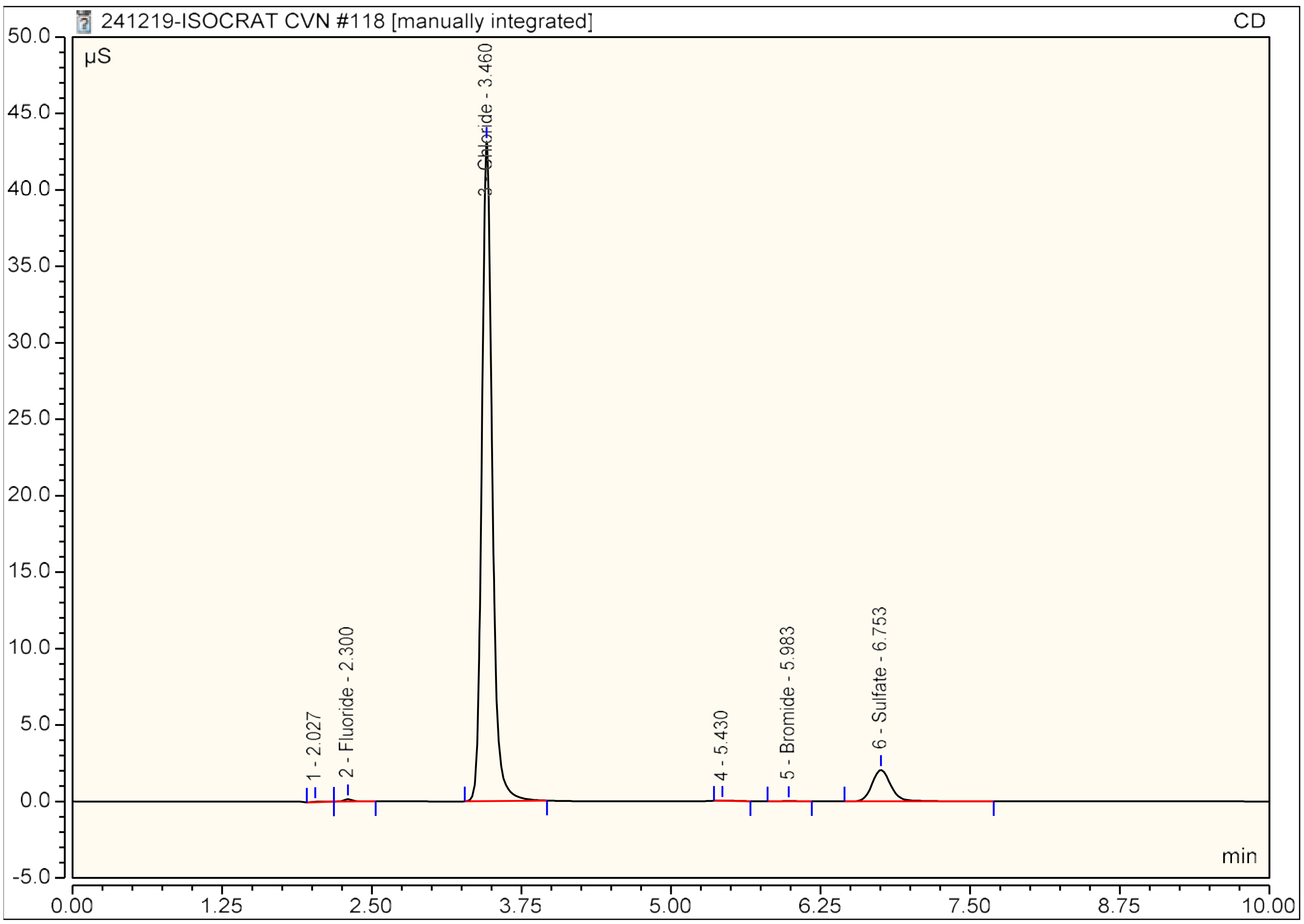
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.016 | 0.218 | 5.1235 |
| 4 | 3.46 | **Chloride** | BMB* | 6.619 | 65.045 | 1774.0268 |
| 6 | 5.98 | **Bromide** | BMB | 0.006 | 0.040 | 7.9453 |
| 7 | 6.76 | **Sulfate** | BMB | 0.010 | 0.055 | 23.6799 |
| 8 | 7.18 | **Nitrate** | BMB | 0.000 | 0.002 | 2.5619 |
| | | **TOTAL:** | | 6.65 | 65.36 | 1813.34 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474624-02; 100X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **100.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 06:14** | *Run Time:* | **10.00** |

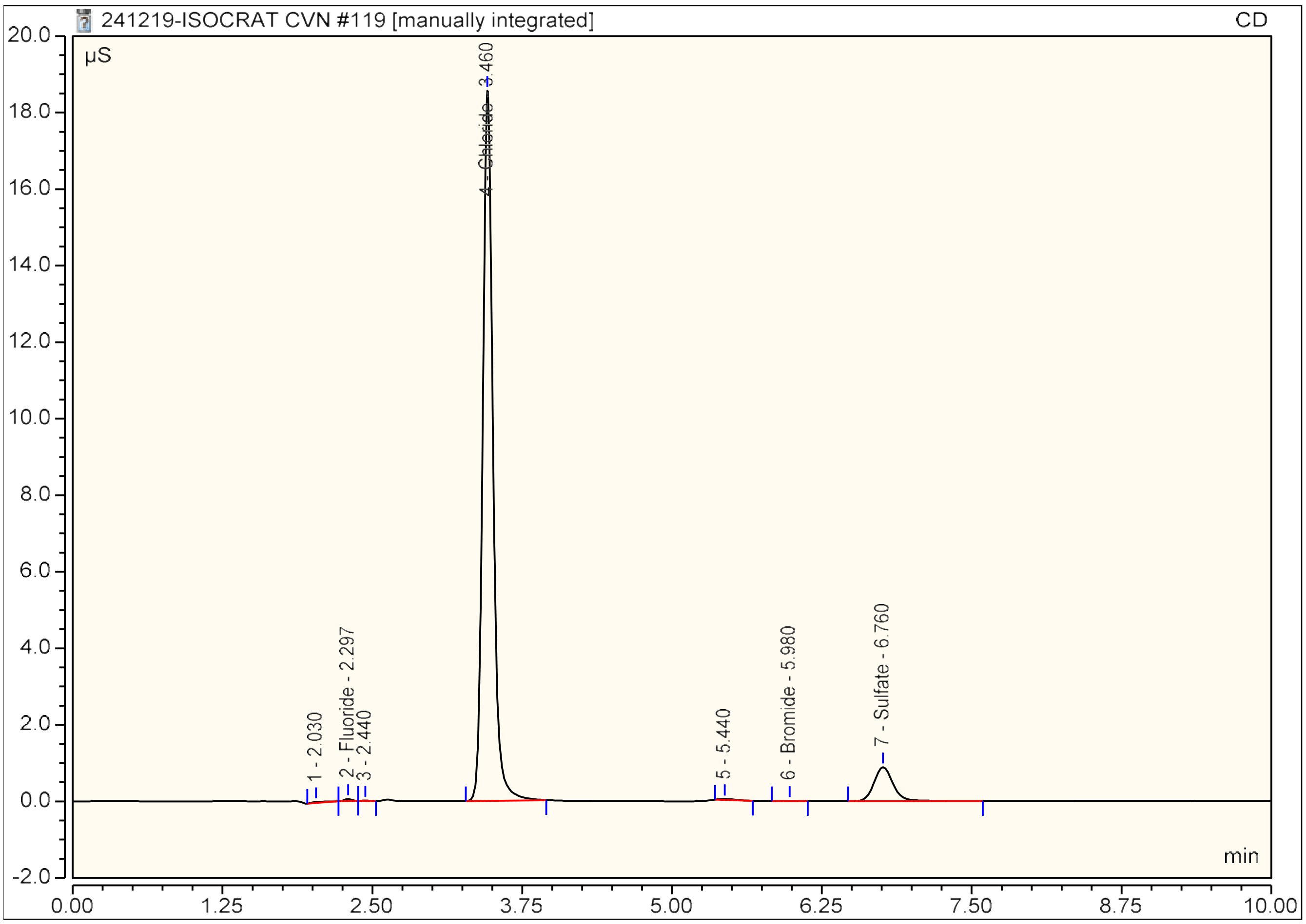
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.013 | 0.153 | 4.5544 |
| 3 | 3.46 | **Chloride** | BMB* | 4.360 | 43.134 | 1172.4855 |
| 5 | 5.98 | **Bromide** | BMB | 0.003 | 0.022 | 5.7273 |
| 6 | 6.75 | **Sulfate** | BMB | 0.378 | 2.060 | 153.0668 |
| | | **TOTAL:** | | 4.75 | 45.37 | 1335.83 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **L2474624-03; 100X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **100.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 06:26** | *Run Time:* | **10.00** |

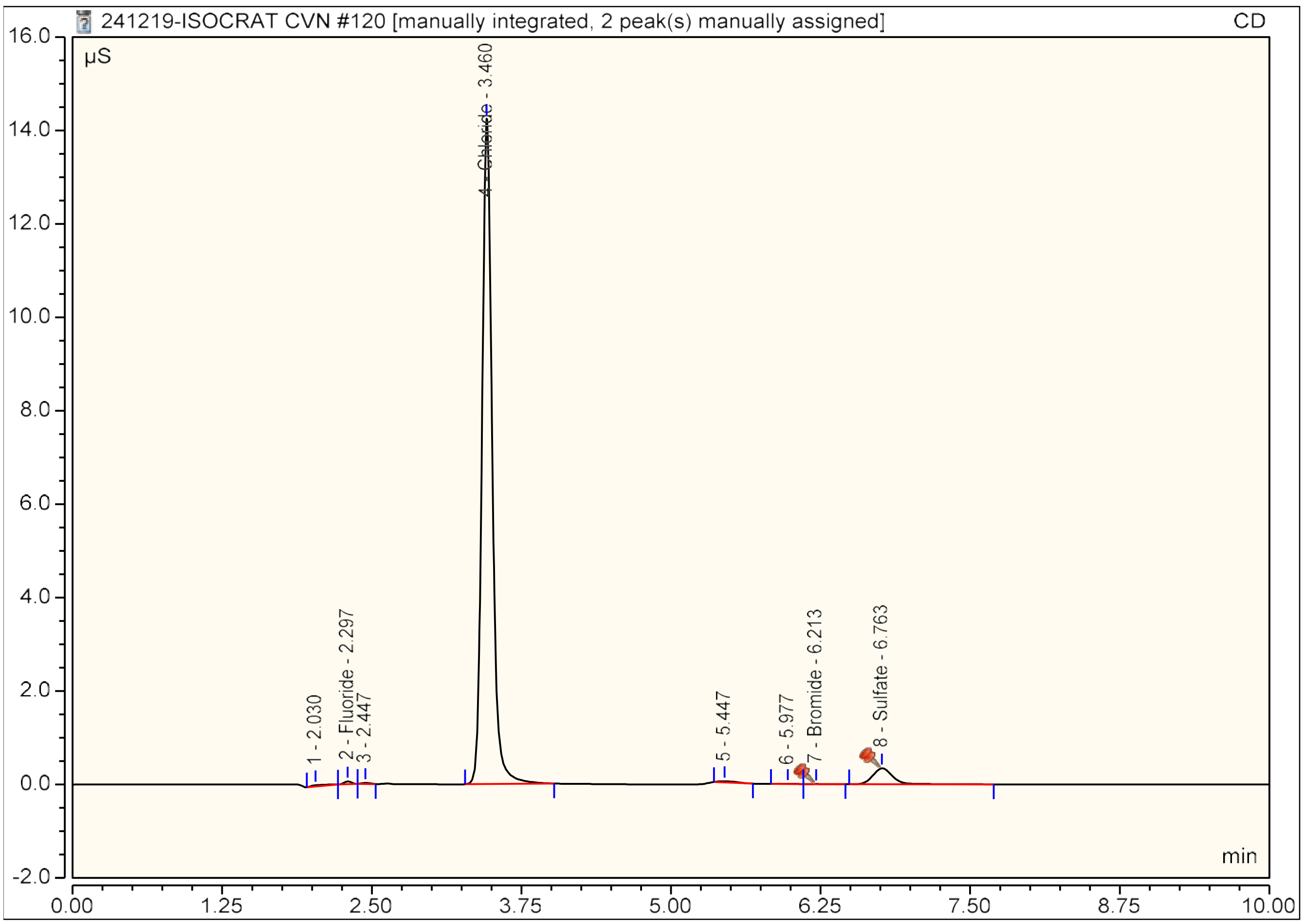
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.004 | 0.058 | 2.9086 |
| 4 | 3.46 | **Chloride** | BMB* | 1.842 | 18.560 | 502.1880 |
| 6 | 5.98 | **Bromide** | BMB | 0.001 | 0.008 | 3.8839 |
| 7 | 6.76 | **Sulfate** | BMB | 0.166 | 0.894 | 78.4509 |
| | | **TOTAL:** | | 2.01 | 19.52 | 587.43 |



## Peak Integration Report

| | | | |
|---|---|---|---|
| *Sample Name:* | **XL2474624-04; 100X** | *Inj. Vol.:* | **25.00** |
| *Injection Type:* | **Unknown** | *Dilution Factor:* | **100.0000** |
| *Instrument Method:* | **Anions_050420_ThermoFisher** | *Operator:* | **IC 4** |
| *Inj. Date / Time:* | **20-Dec-2024 / 06:38** | *Run Time:* | **10.00** |

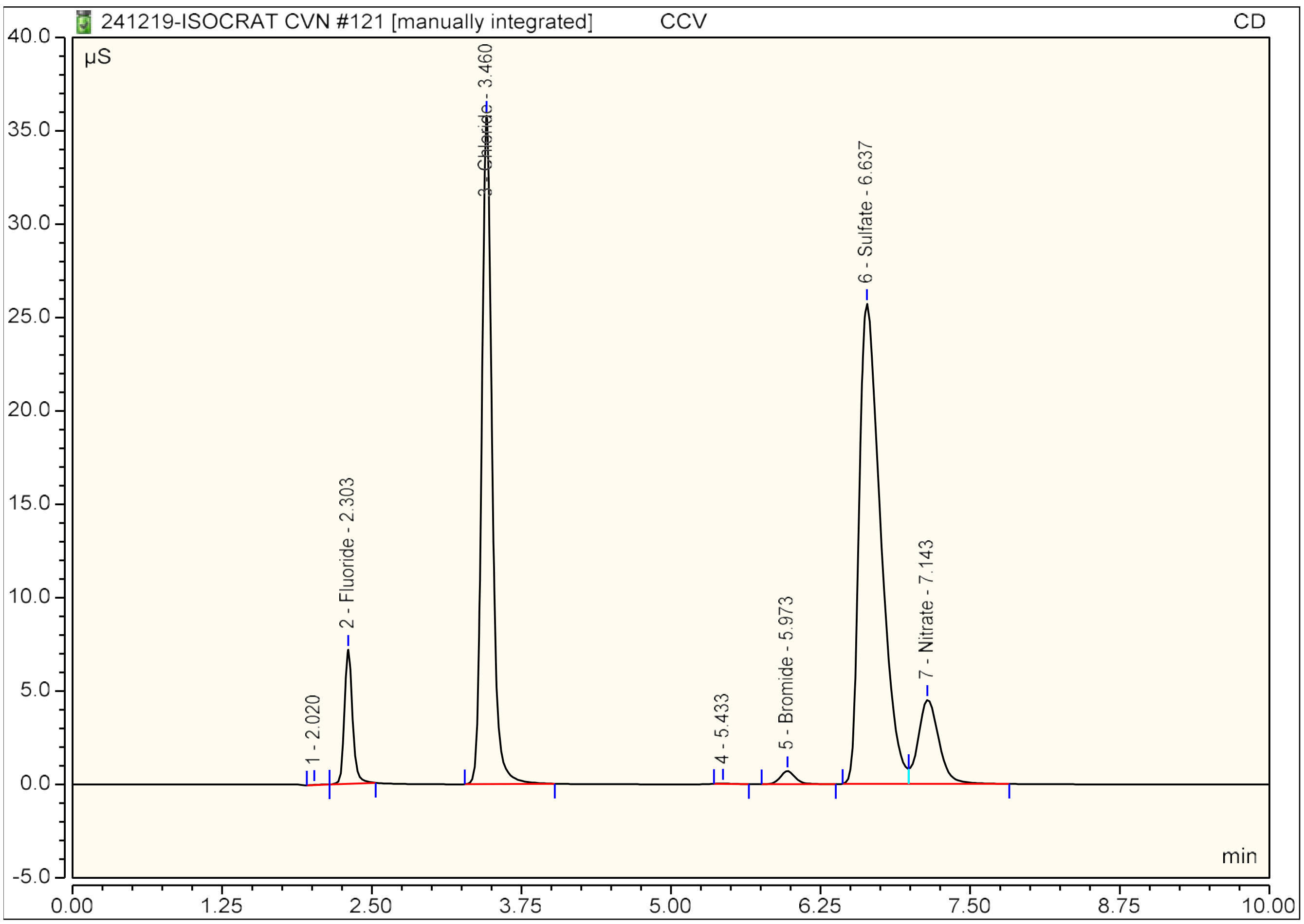
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.004 | 0.061 | 2.9446 |
| 4 | 3.46 | **Chloride** | BMB* | 1.408 | 14.241 | 386.5226 |
| 7 | 6.21 | **Bromide** | BMB^ | 0.000 | 0.003 | 3.3702 |
| 8 | 6.76 | **Sulfate** | BMB^ | 0.067 | 0.345 | 43.5891 |
| | | **TOTAL:** | | 1.48 | 14.65 | 436.43 |



## 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:* | **20-Dec-2024 / 06:50** | *Run Time:* | **10.00** |

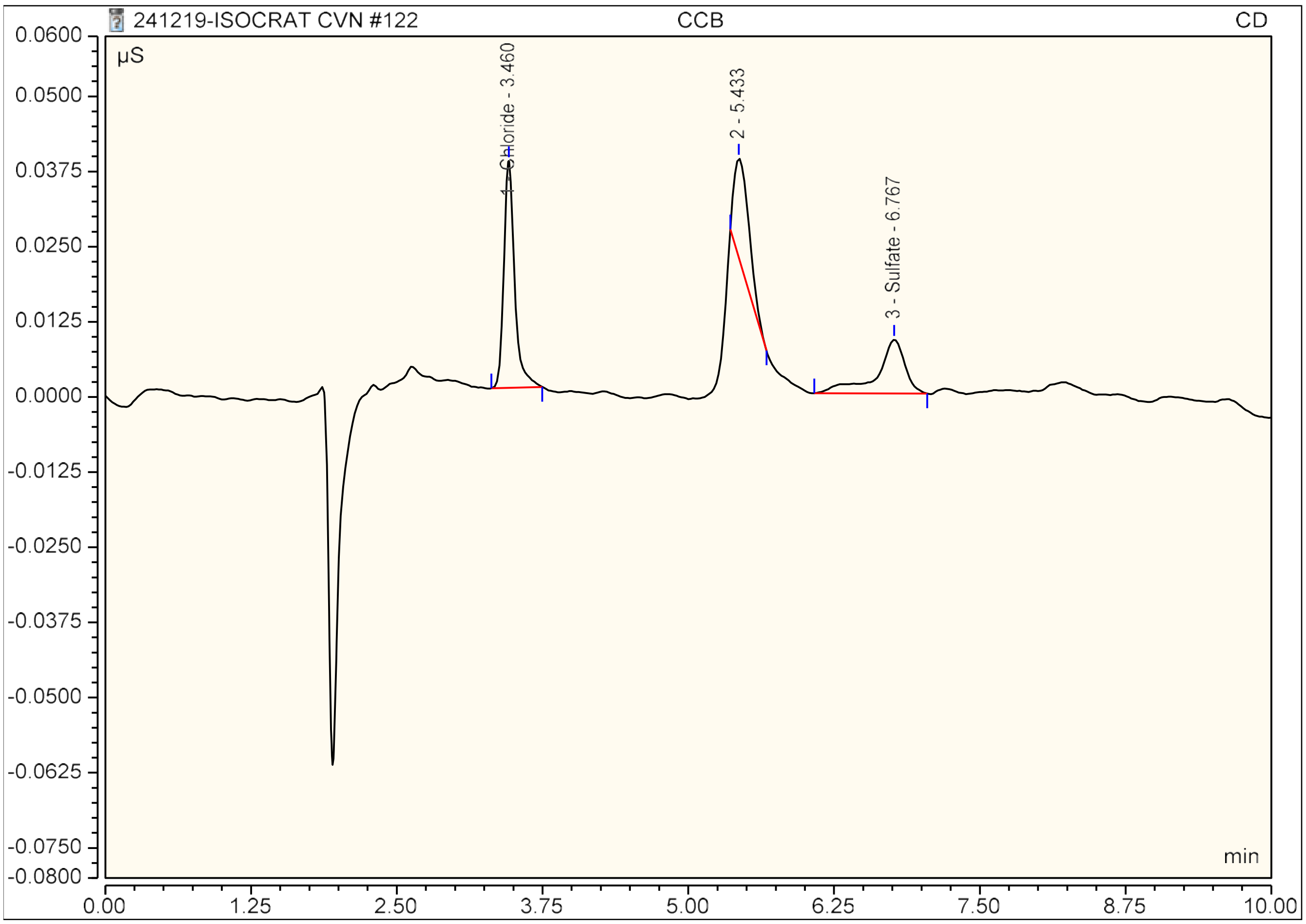
| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 2 | 2.30 | **Fluoride** | BMB | 0.557 | 7.180 | 1.0798 |
| 3 | 3.46 | **Chloride** | BMB* | 3.599 | 35.793 | 9.7005 |
| 5 | 5.97 | **Bromide** | BMB | 0.104 | 0.703 | 0.9171 |
| 6 | 6.64 | **Sulfate** | BM * | 5.342 | 25.700 | 18.9822 |
| 7 | 7.14 | **Nitrate** | MB* | 0.898 | 4.497 | 1.0215 |
| | | **TOTAL:** | | 10.50 | 73.87 | 31.70 |



## 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:* | **20-Dec-2024 / 07:02** | *Run Time:* | **10.00** |

| No. | Time min | Peak Name | Peak Type | Area µS*min | Height µS | Amount |
|---|---|---|---|---|---|---|
| 1 | 3.46 | **Chloride** | BMB | 0.004 | 0.038 | 0.1283 |
| 3 | 6.77 | **Sulfate** | BMB | 0.003 | 0.009 | 0.2093 |
| | | **TOTAL:** | | 0.01 | 0.05 | 0.34 |



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 | 0.0220 | 0.1192 | n.a. | 0.2070 | n.a. |
| 2 | STD 0.5 | 1.0 | 0.0378 | 0.3031 | 0.0441 | 0.5516 | 0.0465 |
| 3 | STD 1.0 | 1.0 | 0.0550 | 0.5119 | 0.0627 | 0.9678 | 0.0677 |
| 4 | STD 2.0 | 1.0 | 0.1840 | 1.9973 | 0.1855 | 3.9537 | 0.1922 |
| 5 | STD 3.0 | 1.0 | 0.4887 | 5.0437 | 0.4758 | 10.1180 | 0.4581 |
| 6 | STD 4.0 | 1.0 | 2.0130 | 19.8311 | 2.0070 | 39.8646 | 2.0106 |
| 7 | STD 5.0 | 1.0 | 4.9964 | 50.0629 | 5.3254 | 100.0443 | 5.5192 |
| 8 | RINSE | 1.0 | n.a. | 0.1364 | 0.0256 | 0.2157 | n.a. |
| 9 | CCV | 1.0 | 1.0349 | 10.3399 | 1.0241 | 20.6302 | 0.9896 |
| 10 | CCB | 1.0 | 0.0231 | 0.1256 | 0.0256 | 0.2135 | n.a. |
| 11 | ICV | 1.0 | 0.8362 | 7.8810 | 0.8236 | 7.5837 | 0.7668 |
| 12 | ICB | 1.0 | 0.0229 | 0.1254 | 0.0257 | 0.2093 | n.a. |
| 13 | L2474615-15 | 1.0 | 0.1428 | 3.0581 | 10.7273 | 46.9575 | 0.0537 |
| 14 | XL2474615-15; 10X | 10.0 | 0.2690 | 3.7584 | 10.6328 | 48.9844 | n.a. |
| 15 | BLK | 1.0 | 0.0220 | 0.1375 | 0.0257 | 0.2155 | n.a. |
| 16 | LCS | 1.0 | 0.8299 | 7.8787 | 0.8136 | 7.5969 | 0.7656 |
| 17 | BLK-2 | 1.0 | 0.0232 | 0.1380 | 0.0256 | 0.2143 | n.a. |
| 18 | LCS-2 | 1.0 | 0.8343 | 7.7916 | 0.8091 | 7.5955 | 0.7658 |
| 19 | L2474615-03 BR CL NO3 | 1.0 | 0.1457 | 16.8638 | n.a. | 145.0782 | 0.2034 |
| 20 | XL2474615-03; 10X | 10.0 | 0.3281 | 17.7824 | n.a. | 156.6610 | 0.4806 |
| 21 | CCV | 1.0 | 1.0277 | 10.3738 | 1.0279 | 20.6606 | 0.9757 |
| 22 | CCB | 1.0 | 0.0229 | 0.1258 | n.a. | 0.2117 | n.a. |
| 23 | L2474615-01 | 1.0 | 0.1713 | 21.2783 | n.a. | 90.3599 | 0.2723 |
| 24 | XL2474615-01; 10X | 10.0 | 0.3490 | 22.4255 | n.a. | 96.0736 | 0.5276 |
| 25 | L2474615-17 | 1.0 | 0.0554 | 20.4900 | n.a. | 142.0075 | 0.0382 |
| 26 | XL2474615-17; 10X | 10.0 | 0.2472 | 21.0547 | n.a. | 151.4089 | n.a. |
| 27 | L2474615-11 | 1.0 | 0.0641 | 2.2661 | 0.6111 | 56.9730 | n.a. |
| 28 | XL2474615-11; 10X | 10.0 | 0.2614 | 2.9728 | 0.6844 | 60.5503 | n.a. |
| 29 | XL2474615-09 | 1.0 | 0.0828 | 85.5432 | n.a. | 295.2369 | n.a. |
| 30 | L2474615-09; 10X | 10.0 | 0.2728 | 89.5356 | n.a. | 318.0311 | 0.3078 |
| 31 | L2474615-05 | 1.0 | 0.0343 | 81.1196 | n.a. | 5.8117 | 1.0244 |
| 32 | L2474615-05; 10X | 10.0 | 30.4488 | 85.7239 | n.a. | 6.7824 | 1.0265 |
| 33 | CCV | 1.0 | 1.0282 | 10.3657 | 1.0244 | 20.5350 | 0.9705 |
| 34 | CCB | 1.0 | 0.0235 | 0.1263 | 0.0255 | 0.2169 | n.a. |
| 35 | L2474615-07 | 1.0 | 0.1444 | 41.1887 | n.a. | 161.9251 | 0.2525 |
| 36 | L2474615-07; 10X | 10.0 | 0.3021 | 43.7201 | n.a. | 176.5803 | 0.5480 |
| 37 | L2474615-13 | 1.0 | 0.1210 | 5.1012 | n.a. | 271.3925 | n.a. |
| 38 | L2474615-13; 10X | 10.0 | 0.3106 | 5.5498 | n.a. | 291.6690 | n.a. |
| 39 | L2474615-19 | 1.0 | 0.0872 | 4.6796 | n.a. | 63.2916 | 0.0374 |
| 40 | XL2474615-19; 10X | 10.0 | 0.2798 | 5.0919 | n.a. | 65.8631 | n.a. |
| 41 | L2474615-21 | 1.0 | 0.0861 | 4.7071 | n.a. | 63.3290 | 0.0372 |
| 42 | XL2474615-21; 10X | 10.0 | 0.2802 | 5.1382 | n.a. | 66.4028 | n.a. |
| 43 | L2474329-01 BR | 1.0 | 0.0312 | 76.4090 | 3.6297 | 9.2511 | 0.0347 |
| 44 | L2474329-02 | 10.0 | 0.3977 | 127.0287 | 22.8795 | 183.1564 | 0.4646 |
| 45 | CCV | 1.0 | 1.0303 | 10.3884 | 1.0427 | 20.5618 | 0.9757 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 46 | CCB | 1.0 | 0.0234 | 0.1237 | 0.0255 | 0.2156 | n.a. |
| 47 | L2474329-03 | 1.0 | 0.0305 | 91.6680 | 2.4845 | 12.6425 | n.a. |
| 48 | L2474329-04 | 1.0 | 0.0430 | 17.4707 | 4.6425 | 16.3269 | 0.0606 |
| 49 | L2474329-05 | 1.0 | 0.0220 | 0.1237 | 0.0258 | 0.2058 | n.a. |
| 50 | L2474281-01 F CL SO4 BR | 1.0 | 0.0573 | 0.6553 | 0.0708 | 3.3798 | n.a. |
| 51 | L2474281-02 | 1.0 | 0.7712 | 1.4442 | 0.0482 | 11.7312 | n.a. |
| 52 | L2474281-03 | 1.0 | 0.1262 | 1.4313 | 0.0483 | 5.6123 | n.a. |
| 53 | L2474281-04 | 1.0 | 0.0967 | 3.0456 | 0.0724 | 5.5647 | 0.0467 |
| 54 | L2474281-05 | 1.0 | 0.7786 | 1.3608 | 0.0465 | 11.4334 | n.a. |
| 55 | L2474281-06 | 1.0 | 0.6967 | 2.3031 | 0.1868 | 24.9849 | n.a. |
| 56 | L2474281-07 | 1.0 | 0.0575 | 0.6609 | 0.0850 | 3.4078 | n.a. |
| 57 | CCV | 1.0 | 1.0921 | 10.0050 | 1.0379 | 19.5083 | 0.9720 |
| 58 | CCB | 1.0 | 0.0221 | 0.1285 | 0.0255 | 0.2089 | n.a. |
| 59 | L2474281-08 | 1.0 | 0.2137 | 1.0945 | n.a. | 5.4242 | n.a. |
| 60 | L2474281-09 | 1.0 | 0.2637 | 1.0094 | n.a. | 8.9775 | n.a. |
| 61 | L2474281-10 | 1.0 | 0.1430 | 1.4902 | n.a. | 6.2577 | n.a. |
| 62 | L2474281-11 | 1.0 | 0.1504 | 0.9123 | 0.1147 | 6.4394 | n.a. |
| 63 | XL2473454-02 F SO4 | 1.0 | 8.5637 | 127.0114 | 0.0721 | 168.3401 | 0.0536 |
| 64 | L2473454-03 | 1.0 | 0.0272 | 0.1363 | 0.0254 | 0.2186 | n.a. |
| 65 | L2474278-01 SO4 | 1.0 | 0.0888 | 11.4363 | 0.2251 | 2.8796 | 0.0314 |
| 66 | XL2474278-02; 10X | 10.0 | 0.7094 | 62.2527 | n.a. | 25.3255 | n.a. |
| 67 | XL2474278-03; 10X | 10.0 | 0.8230 | 52.5904 | n.a. | 18.0578 | 0.3105 |
| 68 | CCV | 1.0 | 1.0899 | 10.0137 | 1.0380 | 19.5054 | 0.9662 |
| 69 | CCB | 1.0 | 0.0224 | 0.1299 | 0.0255 | 0.2090 | n.a. |
| 70 | L2473651-01 F; 50X | 50.0 | 1.1295 | 6.1816 | 1.2763 | 10.2703 | n.a. |
| 71 | RINSE | 1.0 | 0.0220 | 0.1344 | 0.0258 | 0.2132 | n.a. |
| 72 | RINSE | 1.0 | n.a. | 0.1347 | 0.0257 | 0.2131 | n.a. |
| 73 | L2474291-01 F CL SO4 BR | 1.0 | 0.0327 | 0.6402 | 0.2936 | 0.7545 | n.a. |
| 74 | L2474291-02 | 1.0 | 0.0400 | 1.4014 | 0.1690 | 2.5875 | n.a. |
| 75 | L2474291-03 | 1.0 | 0.0360 | 0.7400 | 0.0418 | 0.2853 | n.a. |
| 76 | L2474615-19 MS | 1.0 | 0.5065 | 8.5530 | 0.5674 | 68.1385 | 0.3510 |
| 77 | L2474615-19 MSD | 1.0 | 0.5085 | 8.5377 | 0.5639 | 68.0693 | 0.3498 |
| 78 | L2474615-11 MS | 1.0 | 0.4661 | 6.1505 | 1.0240 | 62.6819 | 0.3538 |
| 79 | L2474615-11 DUP | 1.0 | 0.0672 | 2.2975 | 0.6389 | 58.3664 | 0.0549 |
| 80 | CCV | 1.0 | 1.0869 | 10.0346 | 1.0336 | 19.5610 | 0.9663 |
| 81 | CCB | 1.0 | 0.0224 | 0.1265 | 0.0256 | 0.2093 | n.a. |
| 82 | BLK-3 | 1.0 | 0.0219 | 0.1330 | 0.0255 | 0.2109 | n.a. |
| 83 | LCS-3 | 1.0 | 0.8333 | 7.8435 | 0.8179 | 7.5188 | 0.7528 |
| 84 | L2474624-01 CL SO4 | 1.0 | 4.7442 | 1652.7945 | n.a. | 5.3630 | 8.7884 |
| 85 | XL2474624-01; 10X | 10.0 | 5.2534 | 1865.9326 | n.a. | 6.5984 | 7.6227 |
| 86 | XL2474624-02 | 1.0 | 3.4676 | 1061.5725 | n.a. | 149.7713 | 4.0804 |
| 87 | L2474624-02; 10X | 10.0 | 3.6748 | 1264.4650 | n.a. | 171.5673 | 4.2058 |
| 88 | L2474624-03 | 1.0 | 1.1576 | 464.1774 | n.a. | 71.5694 | 1.5891 |
| 89 | XL2474624-03; 10X | 10.0 | 1.2677 | 539.5527 | n.a. | 81.6132 | 0.5211 |
| 90 | L2474624-04; 10X | 10.0 | 1.3049 | 420.3661 | n.a. | 35.7170 | 1.0618 |
| 91 | XL2474624-04; 100X | 100.0 | 2.9452 | 384.8779 | 2.5295 | 42.1841 | 3.3083 |
| 92 | CCV | 1.0 | 1.0887 | 9.7300 | 1.0200 | 19.0351 | 0.9240 |
| 93 | CCB | 1.0 | 0.0220 | 0.1295 | 0.0257 | 0.2094 | n.a. |
| 94 | L2473669-01; 100X CL | 100.0 | 2.2260 | 1274.3423 | n.a. | 409.1313 | 9.4210 |
| 95 | L2473722-01 CL SO4 | 1.0 | 0.0388 | 37.0135 | 1.9286 | 133.4624 | 0.0355 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 96 | L2473722-01; 10X | 10.0 | 0.2297 | 41.1190 | 1.8746 | 150.1774 | n.a. |
| 97 | L2474167-01 MS | 1.0 | 0.4121 | 3.9463 | 0.3820 | 7.6034 | 0.3648 |
| 98 | L2474167-01 DUP | 1.0 | 0.0219 | 0.1216 | 0.0255 | 0.2083 | n.a. |
| 99 | L2474167-01 | 1.0 | 0.0220 | 0.1212 | 0.0255 | 0.2010 | n.a. |
| 100 | L2474281-04 MS | 1.0 | 0.5143 | 6.8375 | 0.4338 | 13.0544 | 0.3539 |
| 101 | L2474281-04 DUP | 1.0 | 0.0959 | 3.0433 | 0.0720 | 5.5469 | 0.0453 |
| 102 | L2474281-08 MS | 1.0 | 0.6445 | 4.9996 | 0.3930 | 12.9961 | 0.3140 |
| 103 | L2474281-08 DUP | 1.0 | 0.2094 | 1.0796 | n.a. | 5.4012 | n.a. |
| 104 | CCV | 1.0 | 1.0723 | 9.6917 | 1.0164 | 18.9345 | 0.9228 |
| 105 | CCB | 1.0 | n.a. | 0.1271 | n.a. | 0.2054 | n.a. |
| 106 | L24734564-02; 10X F SO4 | 10.0 | 9.5315 | 136.9073 | 0.6138 | 186.1850 | n.a. |
| 107 | L2474278-02 SO4 | 1.0 | 0.6353 | 59.9792 | 0.0432 | 24.5044 | 0.0406 |
| 108 | L2474278-03 | 1.0 | 0.7887 | 50.6163 | n.a. | 17.7046 | n.a. |
| 109 | CCV | 1.0 | 1.0697 | 9.7046 | 1.0153 | 18.9150 | 0.9195 |
| 110 | CCB | 1.0 | n.a. | 0.1278 | 0.0255 | 0.2053 | n.a. |
| 111 | XL2474624-01 CL SO4 | 1.0 | 4.6573 | 1654.0535 | n.a. | 5.3359 | 8.7348 |
| 112 | XL2474624-02 | 1.0 | 3.4489 | 1081.7159 | n.a. | 149.4247 | 4.1331 |
| 113 | XL2474624-03 | 1.0 | 1.1635 | 463.6562 | n.a. | 71.4092 | 1.5815 |
| 114 | L2474624-04 | 1.0 | 1.0902 | 352.1067 | n.a. | 30.8559 | 1.8498 |
| 115 | RINSE | 1.0 | 0.0218 | 0.1624 | 0.0256 | 0.2126 | 0.0387 |
| 116 | RINSE | 1.0 | n.a. | 0.1364 | 0.0258 | 0.2075 | n.a. |
| 117 | L2474624-01; 100X | 100.0 | 5.1235 | 1774.0268 | 2.5619 | 23.6799 | 7.9453 |
| 118 | L2474624-02; 100X | 100.0 | 4.5544 | 1172.4855 | n.a. | 153.0668 | 5.7273 |
| 119 | L2474624-03; 100X | 100.0 | 2.9086 | 502.1880 | n.a. | 78.4509 | 3.8839 |
| 120 | XL2474624-04; 100X | 100.0 | 2.9446 | 386.5226 | n.a. | 43.5891 | 3.3702 |
| 121 | CCV | 1.0 | 1.0798 | 9.7005 | 1.0215 | 18.9822 | 0.9171 |
| 122 | CCB | 1.0 | n.a. | 0.1283 | n.a. | 0.2093 | n.a. |
| | Sum: | 945.000 | 139.5854 | | 95.8728 | 6075.5702 | 107.7834 |
| | Average: | 7.746 | 1.2033 | | 1.2291 | 49.7998 | 1.5621 |
| | Rel.Std.Dev: | 280.878 % | 2.6510 | | 2.5349 | 1.5326 | 1.5093 |

| Inject Time | Comment |
|---|---|
| 11/Dec/2024 12:38 | AU |
| 11/Dec/2024 12:50 | LOT#241211-0.5 |
| 11/Dec/2024 13:02 | LOT#241211-1.0 |
| 11/Dec/2024 13:14 | LOT#241211-2.0 |
| 11/Dec/2024 13:26 | LOT#241211-3.0 |
| 11/Dec/2024 13:39 | LOT#241211-4.0 |
| 11/Dec/2024 13:51 | LOT#241211-5.0 |
| 19/Dec/2024 07:41 | 1344-1573-1339-1341-1347 |
| 19/Dec/2024 07:53 | LOT#241218-C |
| 19/Dec/2024 08:05 | AU |
| 19/Dec/2024 08:17 | LOT#241218-I |
| 19/Dec/2024 08:29 | AU |
| 19/Dec/2024 08:55 | AU |
| 19/Dec/2024 09:07 | AU |
| 19/Dec/2024 09:19 | AU |
| 19/Dec/2024 09:31 | LOT#241218-I |
| 19/Dec/2024 09:43 | AU |
| 19/Dec/2024 09:55 | LOT#241218-I |
| 19/Dec/2024 10:07 | AU |
| 19/Dec/2024 10:19 | AU |
| 19/Dec/2024 10:31 | LOT#241218-C |
| 19/Dec/2024 10:44 | AU |
| 19/Dec/2024 10:56 | AU |
| 19/Dec/2024 11:08 | AU |
| 19/Dec/2024 11:20 | AU |
| 19/Dec/2024 11:32 | AU |
| 19/Dec/2024 11:54 | AU |
| 19/Dec/2024 12:06 | AU |
| 19/Dec/2024 12:18 | AU |
| 19/Dec/2024 12:30 | AU |
| 19/Dec/2024 12:42 | AU |
| 19/Dec/2024 12:54 | AU |
| 19/Dec/2024 13:06 | LOT#241218-C |
| 19/Dec/2024 13:18 | AU |
| 19/Dec/2024 13:30 | AU |
| 19/Dec/2024 13:43 | AU |
| 19/Dec/2024 13:55 | AU |
| 19/Dec/2024 14:07 | AU |
| 19/Dec/2024 14:19 | AU |
| 19/Dec/2024 14:31 | AU |
| 19/Dec/2024 14:43 | AU |
| 19/Dec/2024 14:55 | AU |
| 19/Dec/2024 15:07 | AU |
| 19/Dec/2024 15:19 | AU |
| 19/Dec/2024 15:31 | LOT#241218-C |

| | |
|---|---|
| 19/Dec/2024 15:43 | AU |
| 19/Dec/2024 15:55 | AU |
| 19/Dec/2024 16:08 | AU |
| 19/Dec/2024 16:20 | AU |
| 19/Dec/2024 16:32 | AU |
| 19/Dec/2024 16:44 | AU |
| 19/Dec/2024 16:56 | AU |
| 19/Dec/2024 17:08 | AU |
| 19/Dec/2024 17:20 | AU |
| 19/Dec/2024 17:32 | AU |
| 19/Dec/2024 17:44 | AU |
| 19/Dec/2024 17:56 | LOT#241218-C |
| 19/Dec/2024 18:08 | AU |
| 19/Dec/2024 18:20 | AU |
| 19/Dec/2024 18:33 | AU |
| 19/Dec/2024 18:45 | AU |
| 19/Dec/2024 18:57 | AU |
| 19/Dec/2024 19:09 | AU |
| 19/Dec/2024 19:21 | AU |
| 19/Dec/2024 19:33 | AU |
| 19/Dec/2024 19:45 | AU |
| 19/Dec/2024 19:57 | AU |
| 19/Dec/2024 20:09 | LOT#241218-C |
| 19/Dec/2024 20:21 | AU |
| 19/Dec/2024 20:33 | MATRIX |
| 19/Dec/2024 20:46 | AU |
| 19/Dec/2024 20:58 | AU |
| 19/Dec/2024 21:10 | AU |
| 19/Dec/2024 21:22 | AU |
| 19/Dec/2024 21:34 | AU |
| 19/Dec/2024 21:46 | AU |
| 19/Dec/2024 21:58 | AU |
| 19/Dec/2024 22:10 | AU |
| 19/Dec/2024 22:22 | AU |
| 19/Dec/2024 22:34 | LOT#241218-C |
| 19/Dec/2024 22:46 | AU |
| 19/Dec/2024 22:58 | AU |
| 19/Dec/2024 23:11 | LOT#241218-I |
| 19/Dec/2024 23:23 | AU |
| 19/Dec/2024 23:35 | AU |
| 19/Dec/2024 23:47 | AU |
| 19/Dec/2024 23:59 | AU |
| 20/Dec/2024 00:11 | AU |
| 20/Dec/2024 00:23 | AU |
| 20/Dec/2024 00:35 | AU |
| 20/Dec/2024 00:47 | AU |
| 20/Dec/2024 00:59 | LOT#241212-C |
| 20/Dec/2024 01:11 | AU |
| 20/Dec/2024 01:24 | AU |
| 20/Dec/2024 01:36 | AU |

| | |
|---|---|
| 20/Dec/2024 01:48 | AU |
| 20/Dec/2024 02:00 | AU |
| 20/Dec/2024 02:12 | AU |
| 20/Dec/2024 02:24 | AU |
| 20/Dec/2024 02:36 | AU |
| 20/Dec/2024 02:48 | AU |
| 20/Dec/2024 03:00 | AU |
| 20/Dec/2024 03:12 | AU |
| 20/Dec/2024 03:24 | LOT#241212-C |
| 20/Dec/2024 03:36 | AU |
| 20/Dec/2024 03:49 | AU |
| 20/Dec/2024 04:01 | AU |
| 20/Dec/2024 04:13 | AU |
| 20/Dec/2024 04:25 | LOT#241212-C |
| 20/Dec/2024 04:37 | AU |
| 20/Dec/2024 04:49 | AU |
| 20/Dec/2024 05:01 | AU |
| 20/Dec/2024 05:13 | AU |
| 20/Dec/2024 05:25 | AU |
| 20/Dec/2024 05:37 | AU |
| 20/Dec/2024 05:49 | AU |
| 20/Dec/2024 06:02 | AU |
| 20/Dec/2024 06:14 | AU |
| 20/Dec/2024 06:26 | AU |
| 20/Dec/2024 06:38 | AU |
| 20/Dec/2024 06:50 | LOT#241212-C |
| 20/Dec/2024 07:02 | AU |
| | 0.000 |
| | #DIV/0! |
| | #DIV/0! |

# Quality Control

# Form 5a
# Matrix Spike

| | | | | | |
|---|---|---|---|---|---|
| Client | : | Roux Env. Eng. & Geology, DPC | Lab Number | : | L2474329 |
| Project Name | : | CORAM MATERIALS | Project Number | : | 2232.0006Y005 |
| Client Sample ID | : | NA | Matrix | : | WATER |
| Lab Sample ID | : | L2474615-19 | | | |
| Matrix Spike | : | WG2011341-3 | MS Analysis Date | : | 12/19/24 21:46 |
| Matrix Spike Dup | : | WG2011341-4 | MSD Analysis Date | : | 12/19/24 21:58 |

| Parameter | Sample Conc. (mg/l) | Matrix Spike Sample Spike Added (mg/l) | Spike Conc. (mg/l) | %R | | Matrix Spike Duplicate Spike Added (mg/l) | Spike Conc. (mg/l) | %R | | RPD | Recovery Limits | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 0.037J | 0.4 | 0.351 | 88 | Q | 0.4 | 0.350 | 88 | Q | 0 | 90-110 | 20 |

# Form 7
# Laboratory Control Sample

| | | | | | |
|---|---|---|---|---|---|
| **Client** | : | **Roux Env. Eng. & Geology, DPC** | **Lab Number** | : | **L2474329** |
| **Project Name** | : | **CORAM MATERIALS** | **Project Number** | : | **2232.0006Y005** |
| **Client Sample ID** | : | **NA** | **Matrix** | : | **WATER** |
| **Lab Sample ID** | : | **WG2011341-2** | **LCS Analysis Date** | : | **12/19/24 09:31** |
| **Dup Sample ID** | : | | **LCSD Analysis Date** | : | |

| | Laboratory Control Sample | | | Laboratory Control Duplicate | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Parameter | True (mg/l) | Found (mg/l) | %R | True (mg/l) | Found (mg/l) | %R | RPD | Recovery Limits | RPD Limit |
| Bromide | 0.800 | 0.766 | 96. | | | | | 90-110 | 20 |

**Date Created:** 11/11/21
**Created By:** Jason Hebert
**File:** PM11467-1
**Page:** 1

**WETCHEM (WATER)**

| Analyte | CAS # | RL | MDL | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Method | Holding Time | Container/Sample Preservation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 24959-67-9 | 0.05 | 0.0132 | mg/l | 90-110 | | 90-110 | 20 | 20 | 300.0 | 28 days | 1 - Plastic 250ml unpreserved |
| Chloride | 16887-00-6 | 0.5 | 0.0839 | mg/l | 90-110 | | 64-148 | 18 | 18 | 9056 | 28 days | 1 - Plastic 250ml unpreserved |
| Chloride | 16887-00-6 | 0.5 | 0.0839 | mg/l | 90-110 | | 90-110 | 18 | 18 | 300.0 | 28 days | 1 - Plastic 250ml unpreserved |
| Fluoride | 16984-48-8 | 0.05 | 0.037 | mg/l | 90-110 | | 81-124 | 15 | 15 | 9056 | 28 days | 1 - Plastic 500ml unpreserved |
| Fluoride | 16984-48-8 | 0.05 | 0.037 | mg/l | 90-110 | | 90-110 | 15 | 15 | 300.0 | 28 days | 1 - Plastic 500ml unpreserved |
| Nitrogen, Nitrate | 14797-55-8 | 0.05 | 0.0128 | mg/l | 90-110 | | 90-110 | 15 | 15 | 300.0 | 48 hours | 1 - Plastic 250ml unpreserved |
| Nitrogen, Nitrate | 14797-55-8 | 0.05 | 0.0128 | mg/l | 90-110 | | 80-120 | 15 | 15 | 9056 | 48 hours | 1 - Plastic 250ml unpreserved |
| Sulfate | 14808-79-8 | 1 | 0.454 | mg/l | 90-110 | | 72-124 | 20 | 20 | 9056 | 28 days | 1 - Plastic 500ml unpreserved |
| Sulfate | 14808-79-8 | 1 | 0.454 | mg/l | 90-110 | | 90-110 | 20 | 20 | 300.0 | 28 days | 1 - Plastic 500ml unpreserved |

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

# Calculations of Anions by Ion Chromatography

Aqueous samples:

The Dionex calculates the area of the peaks produced by the instrument, compares them to the peak area of the calibration standard stored in its memory, and calculates result in mg/L.

If the sample was manually diluted prior to analysis, the calculated mean must be manually multiplied by the dilution factor. The Reported Detection Limit is also multiplied by the same dilution factor.

$$\text{Result, mg/L} = \frac{\text{area} - \text{y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

# Subcontracted Data

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

December 23, 2024

Jennifer Byrnes

,

RE: Project: L2474329
Pace Project No.: 70328584

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures

cc: Reports, Alpha Analytical

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

# CERTIFICATIONS

| | |
|---|---|
| Project: | L2474329 |
| Pace Project No.: | 70328584 |

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

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

## SAMPLE SUMMARY

Project: L2474329
Pace Project No.: 70328584

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| 70328584001 | MW-4S | Water | 12/16/24 11:00 | 12/17/24 09:15 |
| 70328584002 | MW-4D2 | Water | 12/16/24 11:50 | 12/17/24 09:15 |
| 70328584003 | MW-12S | Water | 12/16/24 08:45 | 12/17/24 09:15 |
| 70328584004 | MW-12D | Water | 12/16/24 09:33 | 12/17/24 09:15 |
| 70328584005 | EB-12162024 | Water | 12/16/24 12:00 | 12/17/24 09:15 |

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

# SAMPLE ANALYTE COUNT

Project: L2474329
Pace Project No.: 70328584

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| 70328584001 | MW-4S | SM22 4500-S2 F | JWM | 1 |
| 70328584002 | MW-4D2 | SM22 4500-S2 F | JWM | 1 |
| 70328584003 | MW-12S | SM22 4500-S2 F | JWM | 1 |
| 70328584004 | MW-12D | SM22 4500-S2 F | JWM | 1 |
| 70328584005 | EB-12162024 | SM22 4500-S2 F | JWM | 1 |

PACE-MV = Pace Analytical Services - Melville

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

# PROJECT NARRATIVE

Project: L2474329
Pace Project No.: 70328584

Method: SM22 4500-S2 F
Description: 4500S2F W Sulfide Iodometric
Client: Alpha Analytical
Date: December 23, 2024

## 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.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

# ANALYTICAL RESULTS

Project: L2474329
Pace Project No.: 70328584

Sample: MW-4S Lab ID: 70328584001 Collected: 12/16/24 11:00 Received: 12/17/24 09:15 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| 4500S2F W Sulfide Iodometric | Analytical Method: SM22 4500-S2 F<br>Pace Analytical Services - Melville | | | | | | | | |
| Sulfide | <0.20 | mg/L | 2.0 | 0.20 | 1 | | 12/23/24 15:01 | | |

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

# ANALYTICAL RESULTS

Project: L2474329
Pace Project No.: 70328584

Sample: MW-4D2 Lab ID: 70328584002 Collected: 12/16/24 11:50 Received: 12/17/24 09:15 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| 4500S2F W Sulfide Iodometric | Analytical Method: SM22 4500-S2 F<br>Pace Analytical Services - Melville | | | | | | | | |
| Sulfide | <0.20 | mg/L | 2.0 | 0.20 | 1 | | 12/23/24 15:05 | | |

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

# ANALYTICAL RESULTS

Project: L2474329
Pace Project No.: 70328584

Sample: MW-12S Lab ID: 70328584003 Collected: 12/16/24 08:45 Received: 12/17/24 09:15 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| 4500S2F W Sulfide Iodometric | Analytical Method: SM22 4500-S2 F<br>Pace Analytical Services - Melville | | | | | | | | |
| Sulfide | <0.20 | mg/L | 2.0 | 0.20 | 1 | | 12/23/24 15:08 | | |

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

# ANALYTICAL RESULTS

Project: L2474329
Pace Project No.: 70328584

Sample: MW-12D    Lab ID: 70328584004    Collected: 12/16/24 09:33    Received: 12/17/24 09:15    Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| 4500S2F W Sulfide Iodometric | Analytical Method: SM22 4500-S2 F<br>Pace Analytical Services - Melville | | | | | | | | |
| Sulfide | <0.20 | mg/L | 2.0 | 0.20 | 1 | | 12/23/24 15:11 | | |

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

# ANALYTICAL RESULTS

Project: L2474329
Pace Project No.: 70328584

Sample: EB-12162024 Lab ID: 70328584005 Collected: 12/16/24 12:00 Received: 12/17/24 09:15 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| 4500S2F W Sulfide Iodometric | Analytical Method: SM22 4500-S2 F<br>Pace Analytical Services - Melville | | | | | | | | |
| Sulfide | <0.20 | mg/L | 2.0 | 0.20 | 1 | | 12/23/24 15:15 | | |

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

# QUALITY CONTROL DATA

Project: L2474329
Pace Project No.: 70328584

QC Batch: 376752
QC Batch Method: SM22 4500-S2 F
Analysis Method: SM22 4500-S2 F
Analysis Description: 4500S2F W Sulfide Iodometric
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70328584001, 70328584002, 70328584003, 70328584004, 70328584005

METHOD BLANK: 1975274 Matrix: Water
Associated Lab Samples: 70328584001, 70328584002, 70328584003, 70328584004, 70328584005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Sulfide | mg/L | <0.20 | 2.0 | 0.20 | 12/23/24 14:55 | |

LABORATORY CONTROL SAMPLE & LCSD: 1975275 1975276

| 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

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

# QUALIFIERS

Project: L2474329
Pace Project No.: 70328584

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.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2474329
Pace Project No.: 70328584

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| 70328584001 | MW-4S | SM22 4500-S2 F | 376752 | | |
| 70328584002 | MW-4D2 | SM22 4500-S2 F | 376752 | | |
| 70328584003 | MW-12S | SM22 4500-S2 F | 376752 | | |
| 70328584004 | MW-12D | SM22 4500-S2 F | 376752 | | |
| 70328584005 | EB-12162024 | SM22 4500-S2 F | 376752 | | |

WO#: 70328584
70328584

# Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

**Pace Job Number**
L2474329
Page 1

## Client Information

Client: Pace Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Report To:west.subreports@pacelabs.com
Bill To:invoices@pacelabs.coupahost.com

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

## Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

## Turnaround & Deliverables Information

Due Date:
Deliverables: ASP Category B Deliverables

## Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Report to MDL

## Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2474329 Report to include Method and/or Regulatory required batch QC

Additional Comments: aSPB report needed/REPORT TO MDL, Package TAT= 1-2 Days after final report per Mike Miller/ NYS EQUIS EDD

| Lab ID | Pace ID | Client ID | Collection Date/Time | Sample Matrix | Analysis | Sample Level Comments | Sample Specific QC | Container Count |
|---|---|---|---|---|---|---|---|---|
| | L2474329-01 | MW-4S | 12-16-24 11:00 | WATER | Sulfide | | | 0 |
| | L2474329-02 | MW-4D2 | 12-16-24 11:50 | WATER | Sulfide | | | 0 |
| | L2474329-03 | MW-12S | 12-16-24 08:45 | WATER | Sulfide | | | 0 |
| | L2474329-04 | MW-12D | 12-16-24 09:33 | WATER | Sulfide | | | 0 |
| | L2474329-05 | EB-12162024 | 12-16-24 12:00 | WATER | Sulfide | | | 0 |

| Relinquished By: | Date/Time: | Received By: | Date/Time: |
|---|---|---|---|
| | | [signature] DIRECCI | ~~12/18/24~~ 12/17/24 9:15 |
| | | | |
| | | | |

Form No: AL_subcoc

**WO#: 70328584**

PM: BDR   Due Date: 12/27/24
CLIENT: ALPHA

...ters
...7430: 35 Whitney Rd, Suite 5
...205: 14 Walker Way
...Y 14150: 275 Cooper Ave, Suite 105

TEL: 508-898-9220 FAX: 508-898-9193
TEL: 508-822-9300 FAX: 508-822-3288



Date Rec'd in Lab

ALPHA Job #

**Client Information**

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

**Project Information**

| | |
|---|---|
| Project Name: | CORAM MATERIALS |
| Project Location: | |
| Project # | 2232.0006Y005 |
| (Use Project name as Project #) ☐ | |
| Project Manager: | Julia Michaels |
| ALPHAQuote #: | 28577 |

**Turn-Around Time**

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

**Deliverables**

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

**Regulatory Requirement**

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

**Billing Information**

☐ Same as Client Info
PO #

**Disposal Site Information**

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ   ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

**Other project specific requirements/comments:**

Sub SULFIDE courier to PACE MELVILLE

**Please specify Metals or TAL.**

**Sample Filtration**
☐ Done
☐ Lab to do
*Preservation*
☐ Lab to do

*(Please Specify below)*

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | ANALYSIS: SUB-SULFIDE | | | | | | | | Sample Specific Comments | Total Bottles |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW-4S | 12/16/24 | 1100 | AQ | AI | X | | | | | | | | | 16 |
| | MW-4D2 | 12/16/24 | 1150 | AQ | AI | X | | | | | | | | | |
| | MW-12D | 12/16/24 | 0933 | AQ | AI | X | | | | | | | | | |
| | MW-12S | 12/16/24 | 0845 | AQ | AI | X | | | | | | | | | |
| | EB_12162024 | 12/16/24 | 1200 | AQ | AI | X | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Container Type | P | | | | | | | |
| Preservative | C | | | | | | | |

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

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

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

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| [signature] | 12/16/24 | KSwa (Pace) | 12/17 835A |
| KSwa (Melville) | 12/17 945 | KMD P.LI | 12/17/24 9:20 |
| | | | |
| | | | |

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

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

**WO#: 70328584**
**PM: BDR** **Due Date: 12/27/24**
**CLIENT: ALPHA**

Client Name: ALPHA Project #

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: TH21 Correction Factor: +0.0 ☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 2.8 Cooler Temperature Corrected(°C): 2.8 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

**If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.**

Date and Initials of person examining contents: MR 12/18

| | | | | COMMENTS: |
|---|---|---|---|---|
| Chain of Custody Present: | ☑Yes | ☐No | | 1. |
| Chain of Custody Filled Out: | ☑Yes | ☐No | | 2. |
| Chain of Custody Relinquished: | ☑Yes | ☐No | | 3. |
| Sampler Name & Signature on COC: | ☑Yes | ☐No | ☐N/A | 4. |
| Samples Arrived within Hold Time: | ☑Yes | ☐No | | 5. |
| **Short Hold Time Analysis (<72hr):** | ☐Yes | ☑No | | 6. |
| **Rush Turn Around Time Requested** | ☐Yes | ☑No | | 7. |
| Sufficient Volume: (Triple volume provided for MS/MSD) | ☑Yes | ☐No | | 8. |
| Correct Containers Used: | ☑Yes | ☐No | | 9. |
| -Pace Containers Used: | ☑Yes | ☐No | | |
| Containers Intact: | ☑Yes | ☐No | | 10. |
| Filtered volume received for Dissolved tests | ☐Yes | ☐No | ☑N/A | 11. Note: if sediment is visible in the dissolved container. |
| Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER | ☑Yes | ☐No | | 12. |

Date and Initials of person checking preservation: MR 12/18

| | | | | |
|---|---|---|---|---|
| All containers needing preservation have been pH paper Lot # | ☐Yes | ☐No | ☑N/A | 13. ☐ $HNO_3$ ☐ $H_2SO_4$ ☐ NaOH ☐ HCl<br>Sample #<br>Initial when completed: / Lot # of added preservative: / Date/Time preservative added: |
| All containers needing preservation are found to be in compliance with method recommendation? ($HNO_3$, $H_2SO_4$, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis | ☐Yes | ☐No | ☑N/A | |
| Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot # | ☐Yes | ☐No | ☑N/A | 14. Positive for Res. Chlorine? Y N |
| SM 4500 CN samples checked for sul Lead Acetate Strips Lot # | ☐Yes | ☐No | ☑N/A | 15. Positive for Sulfide? Y N |
| Headspace in ALK Bottle ( >6mm): | ☐Yes | ☐No | ☑N/A | |
| Headspace in VOA Vials ( >6mm): | ☐Yes | ☐No | ☑N/A | 16. |
| Trip Blank Present: | ☐Yes | ☐No | ☑N/A | 17. |
| Trip Blank Custody Seals Present | ☐Yes | ☐No | ☑N/A | |

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

**Pace Analytical Services, LLC**
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

December 24, 2024

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2474329
Pace Project No.: 50390540

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on December 19, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA

**Pace Analytical Services, LLC**
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

# CERTIFICATIONS

| | |
|---|---|
| Project: | L2474329 |
| Pace Project No.: | 50390540 |

**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
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

**Pace Analytical Services, LLC**
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

## SAMPLE SUMMARY

Project: L2474329
Pace Project No.: 50390540

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **50390540001** | **MW-4S** | Water | 12/16/24 11:00 | 12/19/24 09:20 |
| **50390540002** | **MW-4D2** | Water | 12/16/24 11:50 | 12/19/24 09:20 |
| **50390540003** | **MW-12S** | Water | 12/16/24 08:45 | 12/19/24 09:20 |
| **50390540004** | **MW-12D** | Water | 12/16/24 09:33 | 12/19/24 09:20 |
| **50390540005** | **EB-12162024** | Water | 12/16/24 12:00 | 12/19/24 09:20 |

**Pace Analytical Services, LLC**
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

## SAMPLE ANALYTE COUNT

Project: L2474329
Pace Project No.: 50390540

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| **50390540001** | **MW-4S** | EPA 9056 | DMP1 | 1 |
| **50390540002** | **MW-4D2** | EPA 9056 | DMP1 | 1 |
| **50390540003** | **MW-12S** | EPA 9056 | DMP1 | 1 |
| **50390540004** | **MW-12D** | EPA 9056 | DMP1 | 1 |
| **50390540005** | **EB-12162024** | EPA 9056 | DMP1 | 1 |

PASI-I = Pace Analytical Services - Indianapolis

**Pace Analytical Services, LLC**
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

# ANALYTICAL RESULTS

Project: L2474329
Pace Project No.: 50390540

**Sample: MW-4S** **Lab ID: 50390540001** Collected: 12/16/24 11:00 Received: 12/19/24 09:20 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **9056 Iodide by IC** | Analytical Method: EPA 9056<br>Pace Analytical Services - Indianapolis | | | | | | | | |
| Iodide | ND | mg/L | 0.50 | 0.15 | 1 | | 12/20/24 11:49 | | |

**REPORT OF LABORATORY ANALYSIS**

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

# ANALYTICAL RESULTS

Project: L2474329
Pace Project No.: 50390540

**Sample: MW-4D2** **Lab ID: 50390540002** Collected: 12/16/24 11:50 Received: 12/19/24 09:20 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **9056 Iodide by IC** | Analytical Method: EPA 9056<br>Pace Analytical Services - Indianapolis | | | | | | | | |
| Iodide | ND | mg/L | 0.50 | 0.15 | 1 | | 12/20/24 12:15 | | |

**REPORT OF LABORATORY ANALYSIS**

**Pace Analytical Services, LLC**
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

# ANALYTICAL RESULTS

Project: L2474329
Pace Project No.: 50390540

**Sample: MW-12S** **Lab ID: 50390540003** Collected: 12/16/24 08:45 Received: 12/19/24 09:20 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **9056 Iodide by IC** | Analytical Method: EPA 9056<br>Pace Analytical Services - Indianapolis | | | | | | | | |
| Iodide | ND | mg/L | 0.50 | 0.15 | 1 | | 12/20/24 10:01 | | |

**REPORT OF LABORATORY ANALYSIS**

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

# ANALYTICAL RESULTS

Project: L2474329
Pace Project No.: 50390540

**Sample: MW-12D** **Lab ID: 50390540004** Collected: 12/16/24 09:33 Received: 12/19/24 09:20 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **9056 Iodide by IC** | Analytical Method: EPA 9056<br>Pace Analytical Services - Indianapolis | | | | | | | | |
| Iodide | ND | mg/L | 0.50 | 0.15 | 1 | | 12/20/24 10:22 | | |

**REPORT OF LABORATORY ANALYSIS**

**Pace Analytical Services, LLC**
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

# ANALYTICAL RESULTS

Project: L2474329
Pace Project No.: 50390540

**Sample: EB-12162024** **Lab ID: 50390540005** Collected: 12/16/24 12:00 Received: 12/19/24 09:20 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **9056 Iodide by IC** | Analytical Method: EPA 9056<br>Pace Analytical Services - Indianapolis | | | | | | | | |
| Iodide | ND | mg/L | 0.50 | 0.15 | 1 | | 12/20/24 10:43 | | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

# QUALITY CONTROL DATA

Project: L2474329
Pace Project No.: 50390540

| | | | |
|---|---|---|---|
| QC Batch: | 824470 | Analysis Method: | EPA 9056 |
| QC Batch Method: | EPA 9056 | Analysis Description: | 9056 Iodide by IC |
| | | Laboratory: | Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50390540001, 50390540002, 50390540003, 50390540004, 50390540005

METHOD BLANK: 3773866 Matrix: Water

Associated Lab Samples: 50390540001, 50390540002, 50390540003, 50390540004, 50390540005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Iodide | mg/L | ND | 0.50 | 0.15 | 12/19/24 20:57 | |

LABORATORY CONTROL SAMPLE: 3773867

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Iodide | mg/L | 5 | 5.3 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3773868 3773869

| Parameter | Units | 50390319006 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 | 5.0 | 5.0 | 101 | 101 | 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

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

# QUALIFIERS

| | |
|---|---|
| Project: | L2474329 |
| Pace Project No.: | 50390540 |

## 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.

**Pace Analytical Services, LLC**
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2474329
Pace Project No.: 50390540

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **50390540001** | **MW-4S** | EPA 9056 | 824470 | | |
| **50390540002** | **MW-4D2** | EPA 9056 | 824470 | | |
| **50390540003** | **MW-12S** | EPA 9056 | 824470 | | |
| **50390540004** | **MW-12D** | EPA 9056 | 824470 | | |
| **50390540005** | **EB-12162024** | EPA 9056 | 824470 | | |

WO#:50390540

50390540

## Subcontract Chain of Custody

Pace Analytical (Indianapolois, IN)
7726 Moller Road
Indianapolis, IN 46268

**Pace Job Number**
L2474329

Page 1

### Project Information

Client: Pace Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Report To: west.subreports@pacelabs.com
Bill To: invoices@pacelabs.coupahost.com

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Location: NY
Project Manager: Jennifer Byrnes

### Turnaround & Deliverables Information

Due Date:
Deliverables: ASP Category B Deliverables

### Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Report to MDL

### Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2474329 Report to include Method and/or Regulatory required batch QC

Additional Comments: L4 report needed/REPORT TO MDL/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 |
|---|---|---|---|---|---|---|---|---|
| 001 | L2474329-01 | MW-4S | 12-16-24 11:00 | WATER | Iodide | | | 1 |
| 002 | L2474329-02 | MW-4D2 | 12-16-24 11:50 | WATER | Iodide | | | 1 |
| 003 | L2474329-03 | MW-12S | 12-16-24 08:45 | WATER | Iodide | | | 1 |
| 004 | L2474329-04 | MW-12D | 12-16-24 09:33 | WATER | Iodide | | | 1 |
| 005 | L2474329-05 | EB-12162024 | 12-16-24 12:00 | Equipment Blank | Iodide | | | 1 |

| Relinquished By: | Date/Time: | Received By: | Date/Time: |
|---|---|---|---|
| C ~ elbeau | | Fed ex | |
| Fedex | 12/19/24 9.20 | Tatiana Scheller Pace | 12/19/24 9.20 |

Form No: AL_subcoc

Pace

# SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 12/19/24 13:35 TS

| | |
|---|---|
| 1. Thermometer: 1 2 3 4 5 6 7 8 9 A B C D E F G H I | 5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other ______ |
| 2. Cooler Temperature(s): (Initial/Corrected) 0.3/0.3 — RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more) | 6. Ice Type: ☑ Wet ☐ Blue ☐ None |
| 3. Courier: Circle One — Fed Ex UPS Client Pace Now/Jett Other | 7. Was the PM notified of out of temp cooler? ☐ Yes ☐ No — Cooler temp should be above freezing to 6°C. If the PM was contacted in the comments below please write how they instructed the project to proceed |
| 4. 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 Containter 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?: | | | ✓ |
| Extra labels on Terracore Vials? (soils only) | | | Out Of Temp Instructions if applicable: | | | |

COMMENTS:

COC PAGE 1 of 1

# Sample Container Count

** Place a PINK dot on containers that are out of conformance **

| | | | | | | | | AMBER GLASS | | | | | | | PLASTIC | | | | | | | | | OTHER | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COC Line Item | WGFU | WGKU BG1U | MeOH (only) SBS DI R | DG9H VG9H | VOA VIAL HS (>6mm) | VG9U DG9U | VG9T | AG0U | AG1H | AG1U | AG3U | AG3S | AG3SF | AG3B | BP1U | BP1N | BP2U | BP3U | BP3N | BP3F | BP3S | BP3B | BP3Z | CG3H | CG3F | Syringe Kit | | | Matrix | Nitric Red HNO3 <2 | Sulfuric Yellow H2SO4 <2 | Sodium Hydroxide Green NaOH >10 | Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9 |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | WT | | | | |
| 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 |
| | 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

| | |
|---|---|
| BP1B | 1L NaOH plastic |
| BP1N | 1L HNO3 plastic |
| BP1S | 1L H2SO4 plastic |
| BP1U | 1L unpreserved plastic |
| BP1Z | 1L NaOH, Zn, Ac |
| BP2N | 500mL HNO3 plastic |
| BP2C | 500mL NaOH plastic |
| BP2S | 500mL H2SO4 plastic |
| BP2U | 500mL unpreserved plastic |
| BP2Z | 500mL NaOH, Zn Ac |
| BP3B | 250mL NaOH plastic |
| BP3N | 250mL HNO3 plastic |
| BP3F | 250mL HNO3 plastic-field filtered |
| BP3U | 250mL unpreserved plastic |
| BP3S | 250mL H2SO4 plastic |
| BP3Z | 250mL NaOH, ZnAc plastic |

| | |
|---|---|
| NT3U | Non Teflon 250mL unpreserved plastic |
| BP4U | 125mL unpreserved plastic |
| BP4N | 125mL HNO3 plastic |
| BP4S | 125mL H2SO4 plastic |

## Miscellaneous

| | |
|---|---|
| Syringe Kit | LL Cr+6 sampling kit |
| ZPLC | Ziploc Bag |
| R | Terracore Kit |
| SP5T | 120mL Coliform Sodium Thiosulfate |
| GN | General Container |
| U | Summa Can (air sample) |
| WT | Water |
| SL | Solid |
| OL | Oil |
| NAL | Non-aqueous liquid |
| WP | Wipe |

# Laboratory Report

**Report prepared for:**

Jennifer Byrnes
Pace Analytical Services, LLC
8 Walkup Drive
Westborough, MA 01581
*Email:* jennifer.byrnes@pacelabs.com, west.subreports@pacelabs.com

**Report prepared by:**

Debbie S Robertson

**Purchase Order:**

**For further assistance, contact:**

Debbie S Robertson
Report Production Coordinator
PO Box 51610
Knoxville, TN 37950 -1610
(865) 546-1335
debbierobertson@galbraith.com

**Sample:** L2474329 MW-4S
**Lab ID:** 2024-V-3007 **Received:** 2024-12-19

| Analysis | Method | Result | Basis | Sample Amount Used | Date (Time) |
|---|---|---|---|---|---|
| *711: Ammonium* | | | | | |
| | GLI Procedure ME-4D | < 5 ppm | As Received | 206.95 mg | 2025-01-03 |

**Sample:** L2474329 MW-4D2
**Lab ID:** 2024-V-3008 **Received:** 2024-12-19

| Analysis | Method | Result | Basis | Sample Amount Used | Date (Time) |
|---|---|---|---|---|---|
| *711: Ammonium* | | | | | |
| | GLI Procedure ME-4D | < 5 ppm | As Received | 205.10 mg | 2025-01-03 |

**Sample:** L2474329 MW-12S
**Lab ID:** 2024-V-3009 **Received:** 2024-12-19

| Analysis | Method | Result | Basis | Sample Amount Used | Date (Time) |
|---|---|---|---|---|---|
| *711: Ammonium* | | | | | |
| | GLI Procedure ME-4D | < 5 ppm | As Received | 204.55 mg | 2025-01-03 |

**Sample:** L2474329 MW-12D
**Lab ID:** 2024-V-3010 **Received:** 2024-12-19

| Analysis | Method | Result | Basis | Sample Amount Used | Date (Time) |
|---|---|---|---|---|---|
| *711: Ammonium* | | | | | |
| | GLI Procedure ME-4D | < 5 ppm | As Received | 204.60 mg | 2025-01-03 |

**Sample:** L2474329 EB-12162024
**Lab ID:** 2024-V-3011 **Received:** 2024-12-19

| Analysis | Method | Result | Basis | Sample Amount Used | Date (Time) |
|---|---|---|---|---|---|
| *711: Ammonium* | | | | | |
| | GLI Procedure ME-4D | < 5 ppm | As Received | 204.14 mg | 2025-01-03 |

***Signatures:***

| | | |
|---|---|---|
| Published By: | Debbie.S.Robertson | 2025-01-06T21:37:23.833-05:00 |
| Created By: | Debbie.S.Robertson | 2025-01-06T21:37:03.723-05:00 |

- Physical signatures are on file.
- "Published By" signature indicates authorized release of data.

**Pace Analytical Services, LLC**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

January 22, 2025

Jennifer Byrnes
Pace Westborough
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2474329
Pace Project No.: 30744232

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 2024. 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 - Greensburg

(Greensburg, PA) - Revision 1- This report replaces the 1/10/25 report. This project was revised on 1/22/25 to correct a sample ID.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Customer Service, Alpha Analytical

**Pace Analytical Services, LLC**
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Greensburg, PA 15601
(724)850-5600

# CERTIFICATIONS

| | |
|---|---|
| Project: | L2474329 |
| Pace Project No.: | 30744232 |

**Pace Analytical Services Pennsylvania**

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

**Pace Analytical Services, LLC**
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Greensburg, PA 15601
(724)850-5600

## SAMPLE SUMMARY

Project: L2474329
Pace Project No.: 30744232

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **30744232001** | **L2474329-07 MW-4S_R** | Water | 12/16/24 11:00 | 12/20/24 10:55 |

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Greensburg, PA 15601
(724)850-5600

## SAMPLE ANALYTE COUNT

Project: L2474329
Pace Project No.: 30744232

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **30744232001** | **L2474329-07 MW-4S_R** | EPA 903.1 | REH1 | 1 | PASI-PA |
| | | EPA 904.0 | VAL | 1 | PASI-PA |
| | | HSL-300 | JJY | 6 | PASI-PA |

PASI-PA = Pace Analytical Services - Greensburg

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Greensburg, PA 15601
(724)850-5600

# ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: L2474329
Pace Project No.: 30744232

**Sample: L2474329-07 MW-4S_R** **Lab ID: 30744232001** Collected: 12/16/24 11:00 Received: 12/20/24 10:55 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | | Pace Analytical Services - Greensburg | | | | |
| Radium-226 | EPA 903.1 | **0.415 ± 0.311 (0.161) C:NA T:96%** | pCi/L | 01/02/25 14:40 | 13982-63-3 | |
| | | Pace Analytical Services - Greensburg | | | | |
| Radium-228 | EPA 904.0 | **0.541 ± 0.341 (0.625) C:79% T:94%** | pCi/L | 01/09/25 14:21 | 15262-20-1 | |
| | | Pace Analytical Services - Greensburg | | | | |
| Thorium-228 | HSL-300 | **0.171 ± 0.210 (0.406) C:NA T:79%** | pCi/L | 01/02/25 14:43 | 14274-82-9 | |
| Thorium-230 | HSL-300 | **-0.008 ± 0.113 (0.156) C:NA T:79%** | pCi/L | 01/02/25 14:43 | 14269-63-7 | |
| Thorium-232 | HSL-300 | **0.000 ± 0.113 (0.085) C:NA T:79%** | pCi/L | 01/02/25 14:43 | 7440-29-1 | |
| Uranium-234 | HSL-300 | **0.181 ± 0.147 (0.164) C:NA T:91%** | pCi/L | 01/02/25 14:42 | 13966-29-5 | |
| Uranium-235 | HSL-300 | **0.091 ± 0.131 (0.215) C:NA T:91%** | pCi/L | 01/02/25 14:42 | 15117-96-1 | |
| Uranium-238 | HSL-300 | **0.063 ± 0.100 (0.184) C:NA T:91%** | pCi/L | 01/02/25 14:42 | | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

# QUALITY CONTROL - RADIOCHEMISTRY

Project: L2474329
Pace Project No.: 30744232

QC Batch: 717408 | Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 | Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30744232001

METHOD BLANK: 3494851 | Matrix: Water
Associated Lab Samples: 30744232001

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|---|---|---|---|---|
| Radium-228 | 0.897 ± 0.417 (0.690) C:78% T:88% | pCi/L | 01/09/25 14:20 | |

**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.**

**Pace Analytical Services, LLC**
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Greensburg, PA 15601
(724)850-5600

# QUALITY CONTROL - RADIOCHEMISTRY

Project: L2474329
Pace Project No.: 30744232

QC Batch: 717407 | Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 | Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30744232001

METHOD BLANK: 3494850 | Matrix: Water

Associated Lab Samples: 30744232001

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|---|---|---|---|---|
| Radium-226 | 0.228 ± 0.210 (0.124) C:NA T:98% | pCi/L | 01/02/25 14:40 | |

**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

**Pace Analytical Services, LLC**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

## QUALITY CONTROL - RADIOCHEMISTRY

Project: L2474329
Pace Project No.: 30744232

| | | | |
|---|---|---|---|
| QC Batch: | 717837 | Analysis Method: | HSL-300 |
| QC Batch Method: | HSL-300 | Analysis Description: | HSL300(AS) Actinides |
| | | Laboratory: | Pace Analytical Services - Greensburg |

Associated Lab Samples: 30744232001

METHOD BLANK: 3496643 Matrix: Water

Associated Lab Samples: 30744232001

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|---|---|---|---|---|
| Thorium-228 | 0.056 ± 0.183 (0.434) C:NA T:76% | pCi/L | 01/02/25 14:43 | |
| Thorium-230 | -0.008 ± 0.117 (0.162) C:NA T:76% | pCi/L | 01/02/25 14:43 | |
| Thorium-232 | 0.000 ± 0.117 (0.088) C:NA T:76% | pCi/L | 01/02/25 14:43 | |
| Uranium-234 | 0.026 ± 0.115 (0.250) C:NA T:79% | pCi/L | 01/02/25 14:42 | |
| Uranium-235 | 0.000 ± 0.150 (0.113) C:NA T:79% | pCi/L | 01/02/25 14:42 | |
| Uranium-238 | 0.041 ± 0.115 (0.213) C:NA T:79% | pCi/L | 01/02/25 14:42 | |

**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

**Pace Analytical Services, LLC**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

# QUALIFIERS

Project: L2474329
Pace Project No.: 30744232

## 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.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

**Pace Analytical Services, LLC**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2474329
Pace Project No.: 30744232

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **30744232001** | **L2474329-07 MW-4S_R** | EPA 903.1 | 717407 | | |
| **30744232001** | **L2474329-07 MW-4S_R** | EPA 904.0 | 717408 | | |
| **30744232001** | **L2474329-07 MW-4S_R** | HSL-300 | 717837 | | |

# WO#:30744232

30744232

Pace

**act Chain of Custody**

lytical (Greensburg, PA)
seytown Rd, Suite 2
Greensburg, PA 15601

**Pace Job Number**
L2474329
Page 1 of 2

| Client Information | Project Information | Regulatory Requirements/Report Limits |
|---|---|---|
| Client: Pace Analytical Labs<br>Address: Eight Walkup Drive<br>Westborough, MA 01581-1019<br><br>Report To:west.subreports@pacelabs.com<br>Bill To:invoices@pacelabs.coupahost.com<br><br>Phone: 716.427.5228<br>Email: Jennifer.Byrnes@pacelabs.com | Project Location: NY<br>Project Manager: Jennifer Byrnes<br><br>**Turnaround & Deliverables Information**<br>Due Date:<br>Deliverables: ASP Category B Deliverables | State/Federal Program:<br>Regulatory Criteria:<br><br>Report to MDL |

**Project Specific Requirements and/or Report Requirements**

Reference following Pace Job Number on final report/deliverables: L2474329 Report to include Method and/or Regulatory required batch QC

Additional Comments: NEEDS NYDEC EDD,ASPB/L4 Deliverables/Report to MDL/RA 226 by 903.1,RA 228 by 904.0,Thorium by HASL 300,Uranium by HASL 300

| Lab ID | Pace ID | Client ID | Collection Date/Time | Sample Matrix | Analysis | Sample Level Comments | Sample Specific QC | Container Count |
|---|---|---|---|---|---|---|---|---|
| | L2474329-07 | MW-4S-R | 12-16-24 11:00 | WATER<br>WATER<br>WATER<br>WATER | Radium 226<br>Radium 228<br>Thorium<br>Uranium by EPA 200.8 | RA 226 by 903.1<br>RA 228 by 904.0<br>Thorium by HASL 300<br>Uranium by HASL 300 | | 2<br>2<br>1<br>1 |

001

Received by Pace Greensburg
Therm ID 19 Corr Factor +/- -0.4
Receipt Temp 3.5
Corrected Temp 3.1
Correct Preservation Y/N

| Relinquished By: | Date/Time: | Received By: | Date/Time: |
|---|---|---|---|
| [signature] | 12/18/24 17:45 | [signature] | 12/18/24 1745 |
| [signature] | 12/18/24 2200 | FEDPACE 22:20 | 12.18.24 |
| FEDPACE 02:45 | 12.19.24 | [signature] | 12/19/24 [illegible] |
| [signature] | 12/19/24 1650 | [signature] PAS | 12-19-24 1730 |
| [signature] PAS | 12-19-24 1950 | Received: BL Breeder | 12-20-24 0900 |
| | | Relinquished: BL Breeder | 12-20-24 1055 |

Form No: AL_subcoc

Pace® Location Requested (City/State):

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

**WO#: 30744232**

PM: SCR  Due Date: 01/14/25

CLIENT: ALPHA ANALYT

Company Name: Alpha
Street Address:

Customer Project #:
Project Name:

Site Collection Info/Facility ID (as applicable):

Contact/Report To:
Phone #:
E-Mail:
Cc E-Mail:
Invoice to:
Invoice E-mail:
Purchase Order # (if applicable):
Quote #:
County / State origin of sample(s):

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:
Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

| Customer Sample ID | Matrix * | Comp / Grab | Composite Start Date | Composite Start Time | Collected or Composite End Date | Collected or Composite End Time | # Cont. | Residual Chlorine Result | Residual Chlorine Units |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
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| | | | | | | | | | |

Specify Container Size **
Identify Container Preservative Type***
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Add, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr:
AcctNum / Client ID:
Table #:
Profile / Template:
Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Sample Comment

Additional Instructions from Pace® :

Collected By:
Printed Name
Signature

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C): [ ] On Ice

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: |
|---|---|---|---|
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) [signature] | Date/Time: 12/20/24 10:55 |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: |

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier
[ ] FedEX [ ] UPS [ ] Other

Page: 2 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Condition Upon Receipt-Greensburg

Pace Analytical Services

Effective Date: 01/04/2024

WO#: 30744232

PM: SCR Due Date: 01/14/25

CLIENT: ALPHA ANALYT

Client Name: Alpha

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking Number:

| Initial / Date | |
|---|---|
| Examined By: | PS 12/20/24 |
| Labeled By: | PS 12/20/24 |
| Temped By: | PS 12/20/24 |

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals Intact: ☐ Yes ☑ No

Thermometer Used: 19 Type of Ice: Wet Blue None

Cooler Temperature: Observed Temp 3.5 °C Correction Factor: -0.4 °C Final Temp: 3.1 °C

Temp should be above freezing to 6°C

| pH paper Lot# | D.P.D. Residual Chlorine Lot # |
|---|---|
| 1001041 | |

| Comments: | Yes | No | NA | |
|---|---|---|---|---|
| Chain of Custody Present | ✓ | | | 1. |
| Chain of Custody Filled Out: | ✓ | | | 2. |
| -Were client corrections present on COC | | ✓ | | |
| Chain of Custody Relinquished | ✓ | | | 3. |
| Sampler Name & Signature on COC: | | ✓ | | 4. |
| Sample Labels match COC: | ✓ | | | 5. |
| -Includes date/time/ID | | | | |
| Matrix: | WT | | | |
| Samples Arrived within Hold Time: | ✓ | | | 6. |
| Short Hold Time Analysis (<72hr remaining): | | ✓ | | 7. |
| Rush Turn Around Time Requested: | | ✓ | | 8. |
| Sufficient Volume: | ✓ | | | 9. |
| Correct Containers Used: | ✓ | | | 10. |
| -Pace Containers Used | | ✓ | | |
| Containers Intact: | ✓ | | | 11. |
| Orthophosphate field filtered: | | | ✓ | 12. |
| Hex Cr Aqueous samples field filtered: | | | ✓ | 13. |
| Organic Samples checked for dichlorination | | | ✓ | 14: |
| Filtered volume received for dissolved tests: | | | ✓ | 15: |
| All containers checked for preservation: | ✓ | | | 16. |
| exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix | | | | PH<2 |
| All containers meet method preservation requirements: | ✓ | | | Initial when completed: PS / Date/Time of Preservation: / Lot# of added Preservative: |
| 8260C/D: Headspace in VOA Vials (>6mm) | | | ✓ | 17. |
| 624.1: Headspace in VOA Vials (0mm) | | | ✓ | 18. |
| Radon: Headspace in RAD Vials (0mm) | | | ✓ | 19. |
| Trip Blank Present: | | | ✓ | Trip blank custody seal present? YES or NO |
| Rad Samples Screened <.05 mrem/hr. | ✓ | | | Initial when completed: PS / Date: 12/20/24 / Survey Meter SN: 25014380 |

Comments:

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Qualtrax ID: 55680

Page 1 of 1

Client L2474329

Site

Page 1 of 1

Profile/EZ Login Number 21500

Notes

| | | Amber Glass | | | | | Plastic | | | | | | | | Vials | | | | | Other | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Line Item | Matrix | AG1H | AG3S | AG3U | AG5U | AG5T | BP1N | BP1U | BP2S | BP2U | BP3B | BP3N | BP3S | BP3U | DG9S | VG9H | VG9T | VG9U | VOAK | WGFU | WGKU | ZPLC | GCUB | GJN | 12GN | AG1U | BG1U | BP2N | |
| 001 | WT | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | |

Container Codes

## Glass

| | | | |
|---|---|---|---|
| GJN | 1 Gallon Jug with HNO3 | DG9S | 40mL amber VOA vial H2SO4 |
| AG5U | 100mL amber glass unpreserved | VG9U | 40mL clear VOA vial |
| AG5T | 100mL amber glass Na Thiosulfate | VG9T | 40mL clear VOA vial Na Thiosulfate |
| GJN | 1 Gallon Jug | VG9H | 40mL clear VOA vial HCl |
| AG1S | 1L amber glass H2SO4 | JGFU | 4oz amber wide jar |
| AG1H | 1L amber glass HCl | WGFU | 4oz wide jar unpreserved |
| AG1T | 1L amber glass NA Thiosulfate | BG2U | 500mL clear glass unpreserved |
| BG1U | 1L clear glass unpreserved | AG2U | 500mL amber glass unpreserved |
| AG3S | 250mL amber glass H2SO4 | WGKU | 8oz wide jar unpreserved |
| AG3U | 250mL amber glass unpreserved | GN | General |

## Plastic/Misc.

| | | | |
|---|---|---|---|
| GCUB | 1 gallon cubitainer | EZI | 5g Encore |
| 12GN | 1/2 gallon cubitainer | VOAK | Kit Volatile Solid |
| SP5T | | | ipe/Swab |
| BP1N | | | loc Bag |
| BP1U | | | |
| BP3S | | | ater |
| BP3N | | | lid |
| BP3U | | | Non-Aq Liquid |
| BP3B | 250mL plastic NAOH | WP | Wipe |
| BP2S | 500mL plastic H2SO4 | | |
| BP2U | 500mL plastic unpreserved | | |

WO#: 30744232
PM: SCR Due Date: 01/14/25
CLIENT: ALPHA ANALYT