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Project Name:	CORAM MATERIALS	**Lab Number:**	L2454352
Project Number:	2232.0006Y005	**Report Date:**	10/08/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2454352-01	SCDOH-DR	WATER	416 MILLER PLACE-YAPHANK ROAD	09/20/24 09:00	09/20/24
L2454352-02	TRIP BLANK	TRIP BLANK (AQUEOUS)	416 MILLER PLACE-YAPHANK ROAD	09/20/24 00:00	09/20/24

Case Narrative

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

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

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

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

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

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

Case Narrative (continued)

Report Submission

October 08, 2024: This final report includes the results of all requested analyses.

September 30, 2024: This is a preliminary report.

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

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

PCBs

The WG1976835-1 Method Blank, associated with L2454352-01, has a concentration above the reporting limit for Aroclor 1254. Since the associated sample concentrations are non-detect to the RL, no corrective action is required.

Nitrogen, Total Kjeldahl

The WG1977009-4 MS recovery, performed on L2454352-01, is outside the acceptance criteria for nitrogen, total kjeldahl (76%); however, the associated LCS recovery is within criteria. No further action was taken.

Alkalinity, Bicarbonate

The WG1975570-4 Laboratory Duplicate RPD for alkalinity, bicarbonate (28%), performed on L2454352-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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

Authorized Signature: Tiffani Morrissey Report Date: 10/08/24

Title: Technical Director/Representative

DATA PACKAGE GLOSSARY

Acronyms

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

Report Format: DU Report with 'J' Qualifiers

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

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

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

Volatile Organics Instruments

Volatile Organics:

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

Volatile Organics: VPH

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

Volatile Organics: PIANO

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

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD

	Column Type: Haysep S Column
	Column Length: 2 Meters packed (100/200 mesh)
Autosampler: LEAP Headspace	Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

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

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

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

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

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

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

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

Pesticides/PCB/Herbicides:

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

Petroleum/EPH:

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

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

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

Semivolatile Organics (8270):

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

Semivolatile Organics (8270 SIM):

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

Semivolatile Organics (1,4-Dioxane):

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

Semivolatile Organics (209 Congener):

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

Semivolatile Organics (8081):

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

Semivolatile Organics (8082):

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

Semivolatile Organics (SHC Extractables):

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

Sample Delivery Group Summary

Alpha Job Number : L2454352

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

Received : 20-SEP-2024
Reviewer : Katelyn Wolotschaj

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	2.6	

Condition Information

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

Volatile Organics/VPH

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

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 10 2024, 08:40 pm

Login Number: L2454352

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 20SEP24 Due Date: 08OCT24

Sample #	Client ID	Mat	PR	Collected
L2454352-01	SCDOH-DR	S0	1	20SEP24 09:00

778760558434 $54.10 USD Galbraith, TN 778761244230 $39.44 USD Pace, IN Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built ASP-B Package Due Date: 10/08/24

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

L2454352-02	TRIP BLANK	S0	1	20SEP24 00:00

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built Package Due Date: 10/08/24

NYTCL-8260

Logged By: Jennifer Byrnes

NEW YORK CHAIN OF CUSTODY

L2454352 27SEP24
ROUX – NY

ALPHA ANALYTICAL

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

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

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

Page 1 of 2

Date Rec'd in Lab 9/21/24

Client Information

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

Project Information

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

Turn-Around Time

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

Deliverables

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

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

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

Disposal Site Information

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8260	NYTCL-8270/SIM-RVT	TAL600/TAL-2007S	8081/8151/8082	NO3/NO2-4500-PPB	TOTALNITROGEN	CI-4500/BR-300	SO4-4500/TPO4-4500	Sample Specific Comments	Total Bottles
54352 -01	SCDOH - DR	9/20	900	AQ	PP	X	X	X	X	X	X	X	X		20
02	TRIP BLANK	9/20	LAB	AQ	B	X									2

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

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

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

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

Container Type															
Preservative															

Relinquished By:	Date/Time	Received By:	Date/Time
	9/20/24 1100		16:25 9/20/24
		1-1°C	
NJSC	9/20/24 1635	NJSC	9/20/24 1635
NJSC	9/20/24 2042	Anthony Green SEP 20 2024 2042	9/21/24 0100 Anthony Green

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page 2 of X2

Date Rec'd In Lab: 9/21/24

ALPHA Job #: L2454352

Client Information

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

Project Information

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

Turn-Around Time

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

Deliverables

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

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

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

Disposal Site Information

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Alk-CO3-2320	Alk-HCO3-2320	F-4500	TDS-2540		Sub-Iodide	Sub-sulfide	Sub-Ammonium	Sample Specific Comments	Total # Bottles
54352 -01	SCIOTH-DR	9/20	900	AQ	PP	X	X	X	X		X	X	X		10
-02	TRIP BLANK	9/20	LAB	AQ	B										

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

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

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

Container Type										
Preservative										

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	9/20/24 1:08	[signature] 1.1°C (w)	16:25 9/20/24
[signature] NJSC Anthony Green	9/20/24 16:35 9/20/24 2000 9/20/24 9/21/24 0100	[signature] NJSC Anthony Green	9/20/24 1635 9/20/24 2000 SEP 20 2024 2042 9/21/24 0100

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

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

9/21/24 0300 Rec'd 09212024

Organics

GC/MS 8260
Analysis

Volatiles QC Summary

Surrogate Recovery Summary
Form 2
Volatiles

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

Lab Number: L2454352
Project Number: 2232.0006Y005
Matrix:

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
SCDOH-DR (L2454352-01)	111	105	111	103	0
TRIP BLANK (L2454352-02)	116	103	108	107	0
WG1977231-3LCS	110	107	109	99	0
WG1977231-4LCSD	109	107	107	100	0
WG1977231-5BLANK	117	103	108	103	0

QC LIMITS

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

*** Values outside of QC limits**

FORM II NYTCL-8260

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1977231-3 Analysis Date : 09/27/24 07:18	**File ID**	: V08240927A02
LCSD Sample ID	: WG1977231-4 Analysis Date : 09/27/24 07:40	**File ID**	: V08240927A03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	10	100	10	10	100	0	70-130	20
1,1-Dichloroethane	10	11	110	10	11	110	0	70-130	20
Chloroform	10	10	100	10	10	100	0	70-130	20
Carbon tetrachloride	10	9.9	99	10	9.8	98	1	63-132	20
1,2-Dichloropropane	10	11	110	10	11	110	0	70-130	20
Dibromochloromethane	10	9.1	91	10	9.0	90	1	63-130	20
1,1,2-Trichloroethane	10	11	110	10	11	110	0	70-130	20
Tetrachloroethene	10	9.7	97	10	9.8	98	1	70-130	20
Chlorobenzene	10	10	100	10	10	100	0	75-130	20
Trichlorofluoromethane	10	10	100	10	10	100	0	62-150	20
1,2-Dichloroethane	10	10	100	10	10	100	0	70-130	20
1,1,1-Trichloroethane	10	10	100	10	10	100	0	67-130	20
Bromodichloromethane	10	9.8	98	10	9.8	98	0	67-130	20
trans-1,3-Dichloropropene	10	10	100	10	10	100	0	70-130	20
cis-1,3-Dichloropropene	10	9.3	93	10	9.5	95	2	70-130	20
Bromoform	10	8.5	85	10	8.4	84	1	54-136	20
1,1,2,2-Tetrachloroethane	10	12	120	10	11	110	9	67-130	20
Benzene	10	10	100	10	10	100	0	70-130	20
Toluene	10	11	110	10	11	110	0	70-130	20
Ethylbenzene	10	11	110	10	11	110	0	70-130	20
Chloromethane	10	11	110	10	12	120	9	64-130	20
Bromomethane	10	7.3	73	10	7.1	71	3	39-139	20
Vinyl chloride	10	11	110	10	11	110	0	55-140	20
Chloroethane	10	11	110	10	11	110	0	55-138	20
1,1-Dichloroethene	10	10	100	10	10	100	0	61-145	20
trans-1,2-Dichloroethene	10	9.6	96	10	9.6	96	0	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2454352
Project Name : CORAM MATERIALS **Project Number** : 2232.0006Y005
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1977231-3 **Analysis Date** : 09/27/24 07:18 **File ID** : V08240927A02
LCSD Sample ID : WG1977231-4 **Analysis Date** : 09/27/24 07:40 **File ID** : V08240927A03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Trichloroethene	10	9.6	96	10	9.5	95	1	70-130	20
1,2-Dichlorobenzene	10	10	100	10	9.8	98	2	70-130	20
1,3-Dichlorobenzene	10	10	100	10	10	100	0	70-130	20
1,4-Dichlorobenzene	10	10	100	10	10	100	0	70-130	20
Methyl tert butyl ether	10	9.0	90	10	9.2	92	2	63-130	20
p/m-Xylene	20	20	100	20	21	105	5	70-130	20
o-Xylene	20	20	100	20	20	100	0	70-130	20
cis-1,2-Dichloroethene	10	9.5	95	10	9.4	94	1	70-130	20
Styrene	20	19	95	20	19	95	0	70-130	20
Dichlorodifluoromethane	10	10	100	10	10	100	0	36-147	20
Acetone	10	10	100	10	11	110	10	58-148	20
Carbon disulfide	10	10	100	10	10	100	0	51-130	20
2-Butanone	10	12	120	10	12	120	0	63-138	20
4-Methyl-2-pentanone	10	9.1	91	10	9.7	97	6	59-130	20
2-Hexanone	10	9.9	99	10	10	100	1	57-130	20
Bromochloromethane	10	8.6	86	10	8.8	88	2	70-130	20
1,2-Dibromoethane	10	9.9	99	10	9.9	99	0	70-130	20
1,2-Dibromo-3-chloropropane	10	8.9	89	10	8.8	88	1	41-144	20
Isopropylbenzene	10	11	110	10	11	110	0	70-130	20
1,2,3-Trichlorobenzene	10	9.4	94	10	9.2	92	2	70-130	20
1,2,4-Trichlorobenzene	10	9.5	95	10	9.2	92	3	70-130	20
Methyl Acetate	10	11	110	10	12	120	9	70-130	20
Cyclohexane	10	16	160 Q	10	16	160 Q	0	70-130	20
Freon-113	10	11	110	10	11	110	0	70-130	20
Methyl cyclohexane	10	15	150 Q	10	15	150 Q	0	70-130	20

Method Blank Summary
Form 4
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1977231-5	**Lab File ID**	: V08240927A05
Instrument ID	: VOA108		
Matrix	: WATER	**Analysis Date**	: 09/27/24 08:25

Client Sample No.	Lab Sample ID	Analysis Date
WG1977231-3LCS	WG1977231-3	09/27/24 07:18
WG1977231-4LCSD	WG1977231-4	09/27/24 07:40
SCDOH-DR	L2454352-01	09/27/24 08:57
TRIP BLANK	L2454352-02	09/27/24 09:19

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA108	**Analysis Date**	: 08/29/24 16:20
Tune Standard	: WG1966886-1	**Tune File ID**	: V08240829NBF3_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	17.4
75	30.0 - 80.0% of mass 95	47.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (.9)1
174	Greater than 50.0% of mass 95	96.8
175	5.0 - 9.0% of mass 174	6.9 (7.1)1
176	Greater than 95.0% but less than 101% of mass	93.7 (96.8)1
177	5.0 - 9.0% of mass 176	6.4 (6.8)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.19PPB	R1871345-1	V08240829N03	08/29/24 17:25
STD0.5PPB	R1871345-2	V08240829N05	08/29/24 18:10
STD2PPB	R1871345-3	V08240829N07	08/29/24 18:55
STD10PPB	R1871345-4	V08240829N08	08/29/24 19:17
STD30PPB	R1871345-5	V08240829N09	08/29/24 19:39
STD80PPB	R1871345-6	V08240829N10	08/29/24 20:02
STD120PPB	R1871345-7	V08240829N11	08/29/24 20:24
STD200PPB	R1871345-8	V08240829N12	08/29/24 20:47
Correlation Data Summary	R1871345-9	V08240829N17	08/29/24 22:39
ICV Quant Report	R1871345-9	V08240829N17	08/29/24 22:39

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA108	**Analysis Date**	: 09/27/24 06:40
Tune Standard	: WG1977231-1	**Tune File ID**	: V08240927ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.7
75	30.0 - 80.0% of mass 95	50.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.2 (1.4)1
174	Greater than 50.0% of mass 95	86.9
175	5.0 - 9.0% of mass 174	6.5 (7.4)1
176	Greater than 95.0% but less than 101% of mass	84.4 (97.1)1
177	5.0 - 9.0% of mass 176	5.5 (6.5)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1977231-2CCAL	WG1977231-2	V08240927A02	09/27/24 07:18
WG1977231-3LCS	WG1977231-3	V08240927A02	09/27/24 07:18
WG1977231-4LCSD	WG1977231-4	V08240927A03	09/27/24 07:40
WG1977231-5BLANK	WG1977231-5	V08240927A05	09/27/24 08:25
SCDOH-DR	L2454352-01	V08240927A06	09/27/24 08:57
TRIP BLANK	L2454352-02	V08240927A07	09/27/24 09:19

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA108	**Analysis Date**	: 09/27/24 07:18:00
Sample No	: WG1977231-2	**Lab File ID**	: V08240927A02

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1977231-2	161447	6.03	119333	9.55	65315	12.24
Upper Limit	322894	6.53	238666	10.05	130630	12.74
Lower Limit	80724	5.53	59667	9.05	32658	11.74
Sample ID						
WG1977231-3 LCS	161447	6.03	119333	9.55	65315	12.24
WG1977231-4 LCSD	159669	6.03	117937	9.55	66905	12.24
WG1977231-5 BLANK	147907	6.03	111337	9.55	54503	12.24
SCDOH-DR	141839	6.03	104875	9.55	51712	12.24
TRIP BLANK	139990	6.03	106588	9.55	51956	12.24

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

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

* Values outside of QC limits

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

Volatile Organics - EPA 8260D (WATER)

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

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

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

Date Created: 03/15/23
Created By: Jason Hebert
File: PM14094-1
Page: 2

Volatile Organics - EPA 8260D (WATER)

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

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

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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VOCs - EPA 8260D/5035 High & Low (SOIL)

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

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

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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VOCs - EPA 8260D/5035 High & Low (SOIL)

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

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

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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Volatiles Sample Data

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 08:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V08240927A06	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 08:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V08240927A06	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 08:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V08240927A06	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-02	**Date Collected**	: 09/20/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 09:19
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V08240927A07	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-02	**Date Collected**	: 09/20/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 09:19
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V08240927A07	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-02	**Date Collected**	: 09/20/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 09:19
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V08240927A07	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1977231-5	**Date Collected**	: NA
Client ID	: WG1977231-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/27/24 08:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240927A05	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1977231-5	**Date Collected**	: NA
Client ID	: WG1977231-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/27/24 08:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240927A05	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1977231-5	**Date Collected**	: NA
Client ID	: WG1977231-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/27/24 08:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240927A05	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A06.d
Acq On : 27 Sep 2024 8:57 am
Operator : VOA108:MJV
Sample : L2454352-01,31,10,10,,A
Misc : WG1977231,ICAL21441
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 12:09:02 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240927A\V08240927A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.030	96	141839	10.000	ug/L	0.00
Standard Area 1 = 161447			Recovery = 87.85%			
59) Chlorobenzene-d5	9.548	117	104875	10.000	ug/L	0.00
Standard Area 1 = 119333			Recovery = 87.88%			
79) 1,4-Dichlorobenzene-d4	12.243	152	51712	10.000	ug/L	0.00
Standard Area 1 = 65315			Recovery = 79.17%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.223	113	44571	10.326	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.26%			
43) 1,2-Dichloroethane-d4	5.742	65	43890	11.051	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.51%			
60) Toluene-d8	7.713	98	130334	10.500	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.00%			
83) 4-Bromofluorobenzene	11.037	95	40868	11.147	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.47%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.	d	
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.015	76	285	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.		
20) Methyl tert-butyl ether	3.797	73	1092	0.125	ug/L #	64
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	5.050	83	960	0.162	ug/L #	69
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A06.d
Acq On : 27 Sep 2024 8:57 am
Operator : VOA108:MJV
Sample : L2454352-01,31,10,10,,A
Misc : WG1977231,ICAL21441
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 12:09:02 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240927A\V08240927A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.766	92	48		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	8.211	166	50		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.616	91	66		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	12.170	146	170		N.D.	
101) 1,4-Dichlorobenzene	12.254	146	478		N.D.	
104) 1,2-Dichlorobenzene	12.678	146	98		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	14.084	180	272		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

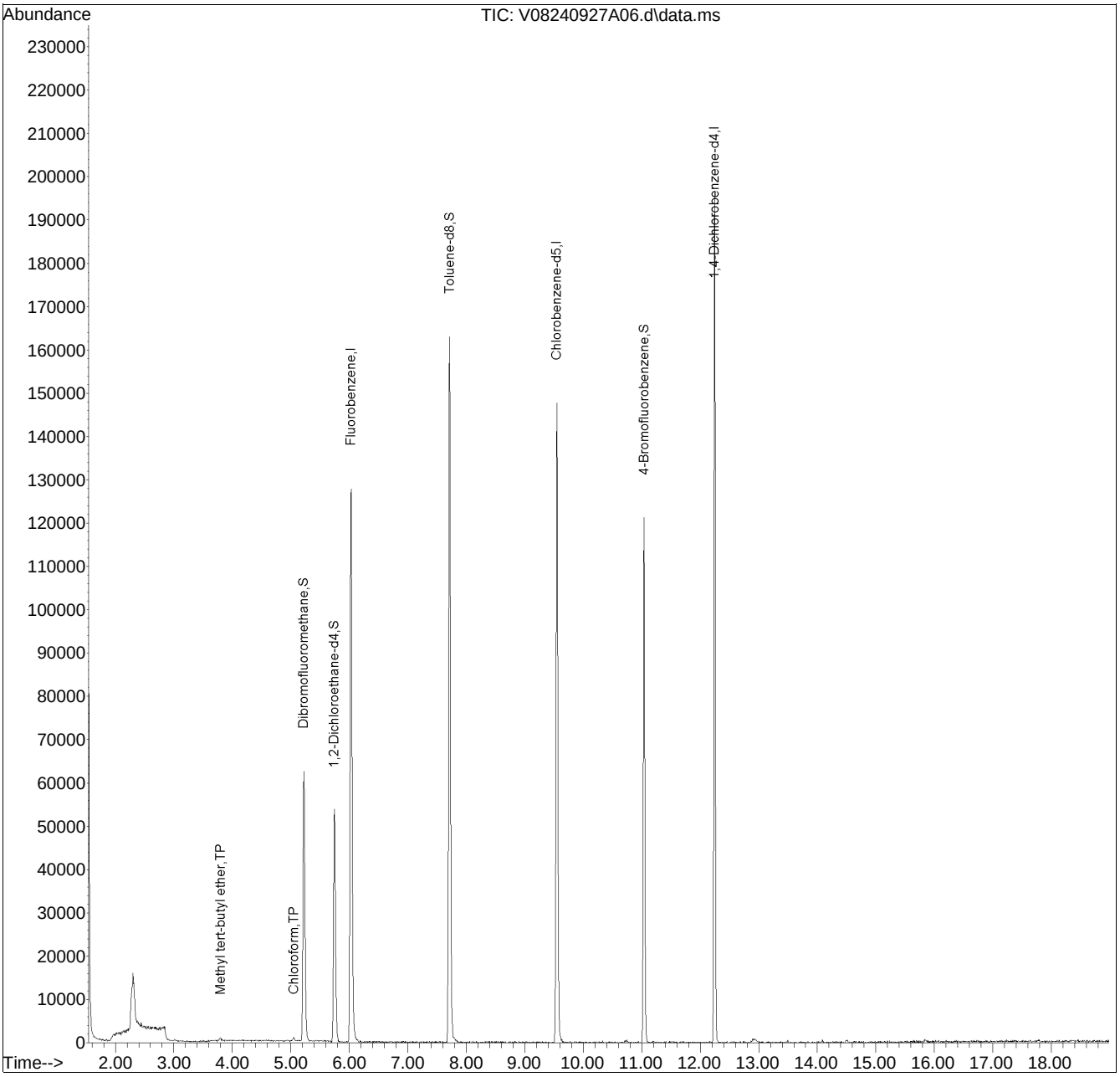
(#) = qualifier out of range (m) = manual integration (+) = signals summed

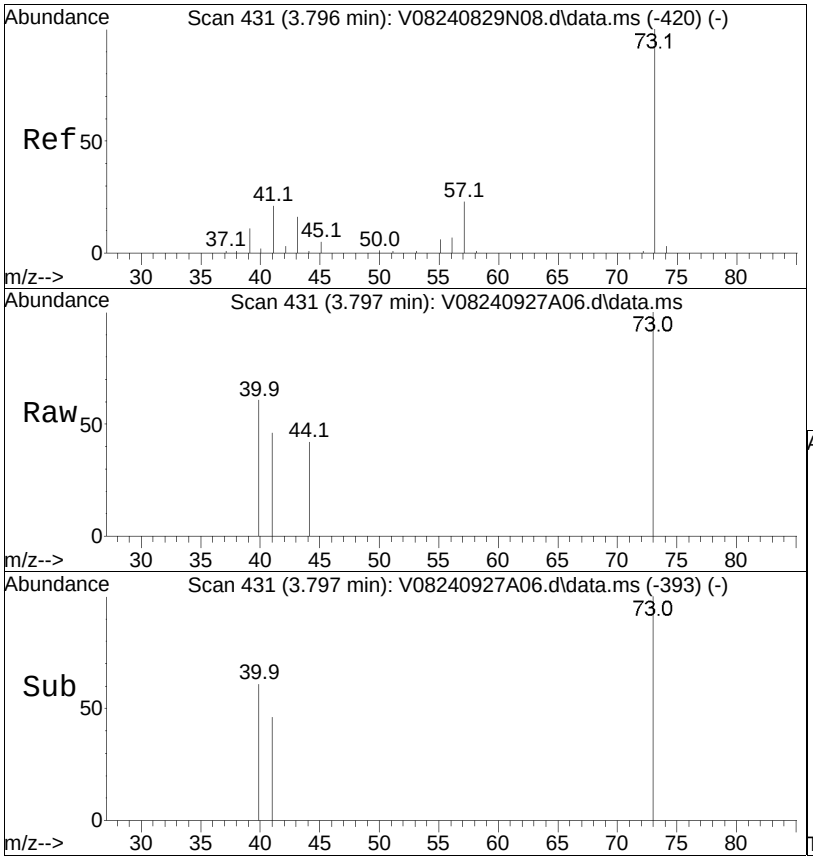
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A06.d
Acq On : 27 Sep 2024 8:57 am
Operator : VOA108:MJV
Sample : L2454352-01,31,10,10,,A
Misc : WG1977231,ICAL21441
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 12:09:02 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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

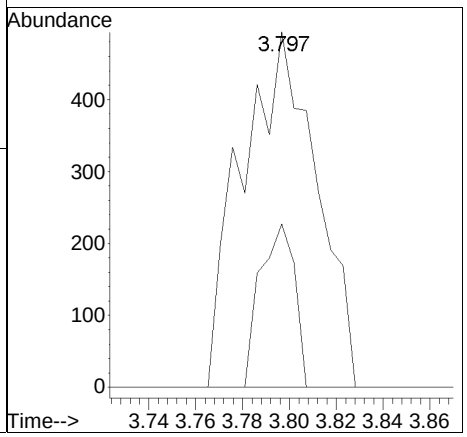


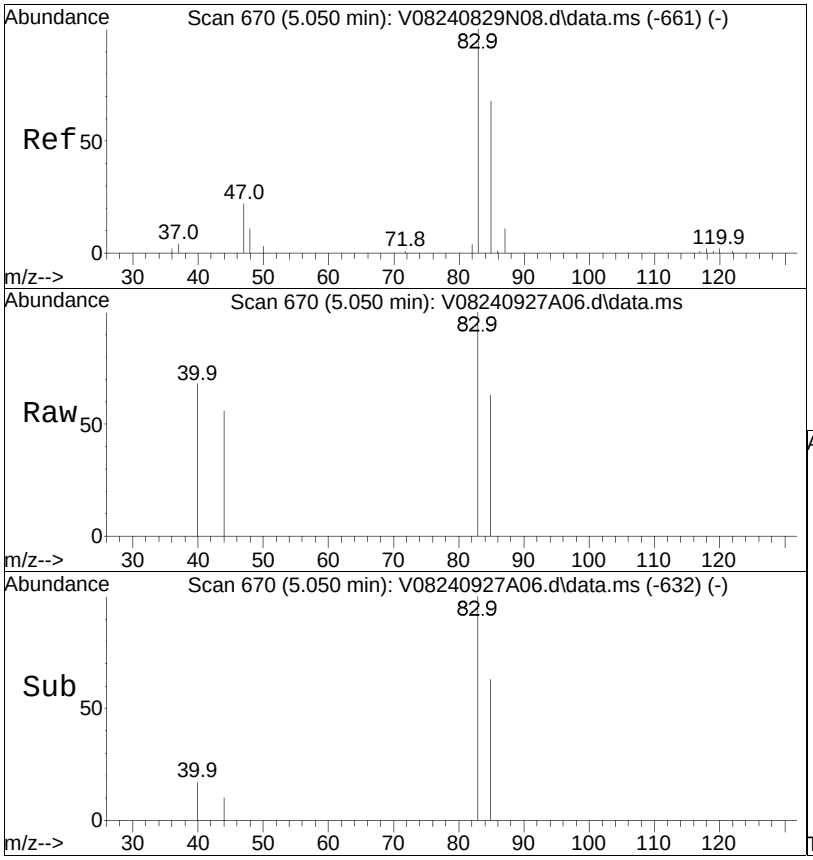


#20
Methyl tert-butyl ether
Concen: 0.12 ug/L
RT: 3.797 min Scan# 431
Delta R.T. 0.001 min
Lab File: V08240927A06.d
Acq: 27 Sep 2024 8:57 am

Tgt Ion: 73 Resp: 1092

Ion	Ratio	Lower	Upper
73	100		
57	0.0	17.5	36.3#
43	0.0	15.3	31.9#
41	21.2	15.3	31.7

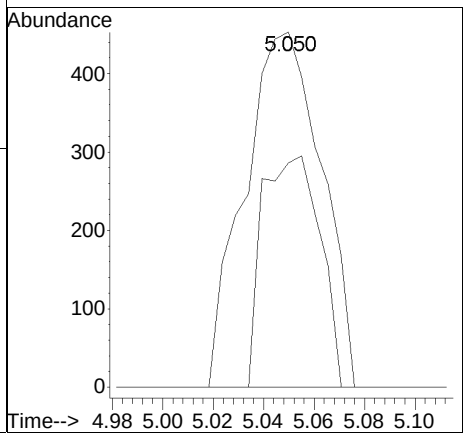




#32
Chloroform
Concen: 0.16 ug/L
RT: 5.050 min Scan# 670
Delta R.T. -0.000 min
Lab File: V08240927A06.d
Acq: 27 Sep 2024 8:57 am

Tgt Ion: 83 Resp: 960

Ion	Ratio	Lower	Upper
83	100		
85	48.8	41.5	86.1
47	0.0	19.0	39.4#
48	0.0	9.9	20.5#



Manual Integration Report

Data Path	: K:\VOA108\2024\240927A\	QMethod	: V108_240829N_8260.m
Data File	: V08240927A06.d	Operator	: VOA108:MJV
Date Inj'd	: 9/27/2024 8:57 am	Instrument	: VOA 108
Sample	: L2454352-01,31,10,10,,A	Quant Date	: 9/27/2024 11:57 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A07.d
Acq On : 27 Sep 2024 9:19 am
Operator : VOA108:MJV
Sample : L2454352-02,31,10,10,,A
Misc : WG1977231,ICAL21441
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 27 12:09:19 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240927A\V08240927A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.030	96	139990	10.000	ug/L	0.00
Standard Area 1 = 161447			Recovery = 86.71%			
59) Chlorobenzene-d5	9.548	117	106588	10.000	ug/L	0.00
Standard Area 1 = 119333			Recovery = 89.32%			
79) 1,4-Dichlorobenzene-d4	12.243	152	51956	10.000	ug/L	0.00
Standard Area 1 = 65315			Recovery = 79.55%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.223	113	45727	10.734	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.34%			
43) 1,2-Dichloroethane-d4	5.742	65	45360	11.572	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.72%			
60) Toluene-d8	7.713	98	129511	10.266	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.66%			
83) 4-Bromofluorobenzene	11.037	95	39643	10.763	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.63%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.015	76	126	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A07.d
Acq On : 27 Sep 2024 9:19 am
Operator : VOA108:MJV
Sample : L2454352-02,31,10,10,,A
Misc : WG1977231,ICAL21441
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 27 12:09:19 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240927A\V08240927A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.543	91	52		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	12.254	146	220		N.D.	
101) 1,4-Dichlorobenzene	12.254	146	220		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	14.089	180	54		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

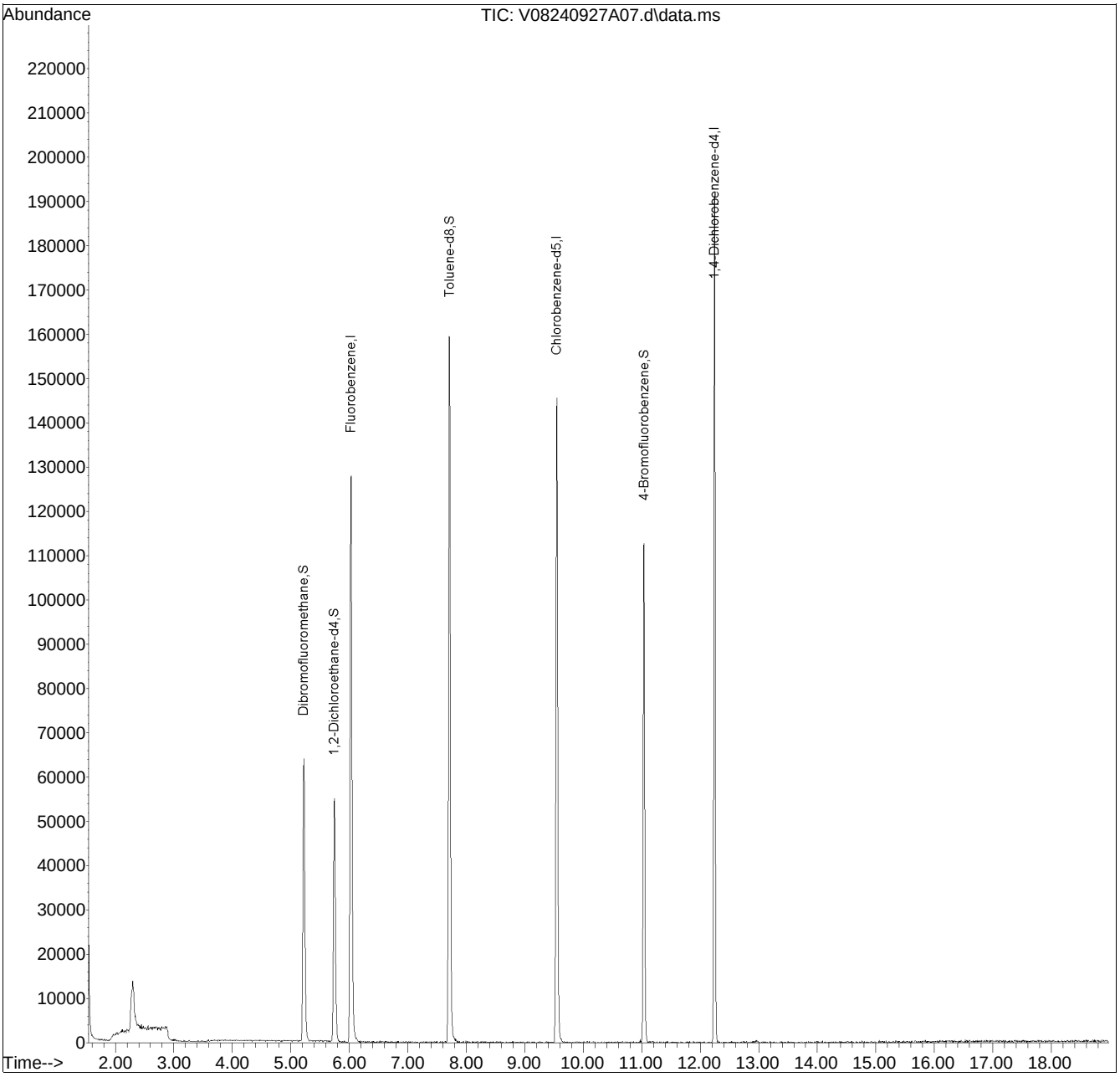
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A07.d
Acq On : 27 Sep 2024 9:19 am
Operator : VOA108:MJV
Sample : L2454352-02,31,10,10,,A
Misc : WG1977231,ICAL21441
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 27 12:09:19 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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



Manual Integration Report

Data Path	: K:\VOA108\2024\240927A\	QMethod	: V108_240829N_8260.m
Data File	: V08240927A07.d	Operator	: VOA108:MJV
Date Inj'd	: 9/27/2024 9:19 am	Instrument	: VOA 108
Sample	: L2454352-02,31,10,10,,A	Quant Date	: 9/27/2024 11:57 am

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

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA108**	**Ical Ref**	**: ICAL21441**
Calibration dates	**: 08/29/24 17:25 08/29/24 20:47**		

Calibration Files
L11 =V08240829N03.d L1 =V08240829N05.d L2 =V08240829N07.d L3 =V08240829N08.d L4 =V08240829N09.d
L6 =V08240829N10.d L8 =V08240829N11.d L10 =V08240829N12.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.190	0.229	0.202	0.164	0.184	0.228	0.245	0.206	14.03
3)	TP	Chloromethane		0.197	0.215	0.231	0.210	0.214	0.220	0.227	0.216	5.14
4)	TP	Vinyl chloride	0.287	0.290	0.319	0.316	0.285	0.297	0.321	0.335	0.306	6.16
5)	TP	Bromomethane		0.253	0.266	0.278	0.260	0.268	0.274	0.287	0.269	4.25
6)	TP	Chloroethane		0.254	0.297	0.295	0.275	0.285	0.294	0.250	0.278	7.00
7)	TP	Trichlorofluor		0.446	0.513	0.459	0.384	0.422	0.539	0.597	0.480	15.31
8)	TP	Ethyl ether		0.185	0.189	0.202	0.187	0.195	0.195	0.206	0.194	4.06
10)	TP	1,1-Dichloroet		0.165	0.188	0.181	0.162	0.176	0.203	0.223	0.185	11.60
11)	TP	Carbon disulfide		0.598	0.634	0.624	0.567	0.600	0.674	0.728	0.632	8.54
12)	TP	Freon-113			0.200	0.171	0.138	0.146	0.203	0.231	0.182	19.91
13)	TP	Iodomethane		0.293	0.369	0.411	0.405	0.435	0.441	0.448	0.400	13.59
14)	TP	Acrolein			0.024	0.028	0.027	0.031	0.031	0.033	0.029	12.16
15)	TP	Methylene chlo		0.260	0.244	0.255	0.231	0.236	0.234	0.244	0.243	4.41
17)	TP	Acetone			0.053	0.045	0.041	0.040	0.040	0.041	0.044	11.68
18)	TP	trans-1,2-Dich		0.205	0.225	0.226	0.213	0.224	0.235	0.249	0.225	6.37
19)	TP	Methyl acetate			0.114	0.107	0.097	0.104	0.104	0.110	0.106	5.45
20)	TP	Methyl tert butyl ether		0.524	0.526	0.626	0.621	0.667	0.662	0.702	0.618	11.20
21)	TP	tert-Butyl alc			0.013	0.016	0.016	0.017	0.017	0.018	0.016	10.63
22)	TP	Diisopropyl ether		0.494	0.526	0.637	0.621	0.659	0.660	0.697	0.614	12.17
23)	TP	1,1-Dichloroet		0.346	0.391	0.416	0.384	0.393	0.396	0.417	0.392	6.07
24)	TP	Halothane		0.155	0.181	0.182	0.164	0.176	0.194	0.207	0.180	9.78
25)	TP	Acrylonitrile		0.037	0.051	0.060	0.060	0.063	0.062	0.067	0.057	18.00
26)	TP	Ethyl tert-but		0.511	0.515	0.642	0.642	0.700	0.704	0.758	0.639	14.83
27)	TP	Vinyl acetate		0.357	0.371	0.452	0.444	0.478	0.479	0.519	0.443	13.35
28)	TP	cis-1,2-Dichlo		0.241	0.244	0.272	0.255	0.264	0.263	0.276	0.259	5.07
29)	TP	2,2-Dichloropr		0.250	0.299	0.296	0.276	0.287	0.308	0.325	0.292	8.23
30)	TP	Bromochloromet		0.137	0.142	0.155	0.147	0.151	0.151	0.155	0.148	4.56
31)	TP	Cyclohexane			0.252	0.237	0.210	0.225	0.325	0.378	*Q	0.9958
32)	TP	Chloroform		0.391	0.419	0.449	0.407	0.414	0.412	0.430	0.418	4.40
33)	TP	Ethyl acetate			0.136	0.150	0.148	0.158	0.156	0.167	0.152	6.70
34)	TP	Carbon tetrachloride	0.243	0.290	0.350	0.331	0.296	0.313	0.373	0.410	0.326	16.01
35)	TP	Tetrahydrofuran			0.043	0.046	0.046	0.049	0.047	0.050	0.047	5.81
36)	S	Dibromofluoromethane	0.309	0.314	0.305	0.307	0.302	0.300	0.298	0.300	0.304	1.82
37)	TP	1,1,1-Trichlor		0.297	0.353	0.354	0.324	0.335	0.373	0.401	0.348	9.67
39)	TP	2-Butanone		0.054	0.064	0.067	0.061	0.064	0.063	0.068	0.063	7.64

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA108**	**Ical Ref**	**: ICAL21441**
Calibration dates	**: 08/29/24 17:25 08/29/24 20:47**		

Calibration Files
L11 =V08240829N03.d L1 =V08240829N05.d L2 =V08240829N07.d L3 =V08240829N08.d L4 =V08240829N09.d
L6 =V08240829N10.d L8 =V08240829N11.d L10 =V08240829N12.d

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
40) TP	1,1-Dichloropr		0.202	0.238	0.252	0.234	0.249	0.287	0.315	0.254	14.64
41) TP	Benzene	0.764	0.769	0.853	0.930	0.876	0.912	0.922	0.979	0.876	8.79
42) TP	Tertiary-Amyl Methyl Ether		0.415	0.455	0.561	0.564	0.610	0.620	0.670	0.557	16.47
43) S	1,2-Dichloroethane-d4	0.281	0.282	0.282	0.283	0.273	0.279	0.277	0.283	0.280	1.25
44) TP	1,2-Dichloroet		0.285	0.282	0.303	0.279	0.280	0.275	0.284	0.284	3.13
47) TP	Methyl cyclohe			0.260	0.235	0.216	0.219	0.343	0.417	*Q	0.9945
48) TP	Trichloroethene	0.213	0.213	0.236	0.247	0.233	0.240	0.259	0.283	0.240	9.66
50) TP	Dibromomethane		0.133	0.146	0.157	0.148	0.150	0.148	0.155	0.148	5.38
51) TP	1,2-Dichloropr		0.182	0.202	0.230	0.219	0.228	0.228	0.240	0.218	9.16
53) TP	2-Chloroethyl			0.087	0.119	0.129	0.139	0.141	0.149	0.127	17.51
54) TP	Bromodichlorom		0.284	0.314	0.347	0.323	0.337	0.336	0.351	0.327	7.03
57) TP	1,4-Dioxane		0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002#	10.88
58) TP	cis-1,3-Dichlo		0.266	0.304	0.366	0.357	0.373	0.370	0.392	0.347	12.91
59) I	Chlorobenzene-d5	----------ISTD----------									
60) S	Toluene-d8	1.196	1.202	1.213	1.237	1.176	1.178	1.137	1.131	1.184	3.07
61) TP	Toluene		0.578	0.675	0.750	0.676	0.699	0.702	0.762	0.692	8.74
62) TP	4-Methyl-2-pen			0.049	0.066	0.068	0.078	0.077	0.086	0.071	18.27
63) TP	Tetrachloroethene		0.284	0.341	0.340	0.296	0.296	0.336	0.375	0.324	10.12
65) TP	trans-1,3-Dich		0.276	0.328	0.399	0.376	0.395	0.379	0.405	0.365	12.88
67) TP	Ethyl methacry			0.199	0.288	0.295	0.338	0.333	0.370	0.304	19.56
68) TP	1,1,2-Trichlor		0.169	0.191	0.217	0.193	0.204	0.195	0.211	0.197#	7.96
69) TP	Chlorodibromom		0.315	0.321	0.382	0.347	0.364	0.348	0.370	0.350	7.17
70) TP	1,3-Dichloropr		0.360	0.361	0.417	0.375	0.389	0.369	0.388	0.380	5.33
71) TP	1,2-Dibromoethane		0.219	0.230	0.269	0.240	0.247	0.234	0.244	0.240	6.53
72) TP	2-Hexanone			0.071	0.099	0.105	0.119	0.116	0.126	0.106	18.71
73) TP	Chlorobenzene		0.788	0.817	0.935	0.838	0.865	0.850	0.910	0.858	5.98
74) TP	Ethylbenzene		0.999	1.134	1.332	1.253	1.277	1.342	1.476	1.259	12.27
75) TP	1,1,1,2-Tetrac		0.290	0.319	0.378	0.340	0.347	0.338	0.360	0.339	8.33
76) TP	p/m Xylene		0.373	0.451	0.568	0.531	0.550	0.577	0.657	0.529	17.41
77) TP	o Xylene		0.348	0.442	0.568	0.536	0.561	0.572	0.643	0.524	18.74
78) TP	Styrene		0.562	0.715	0.960	0.907	0.978	0.987		*L	0.9992
79) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
80) TP	Bromoform		0.363	0.345	0.428	0.375	0.416	0.393	0.445	0.395	9.21
82) TP	Isopropylbenzene		1.638	1.854	2.272	1.988	2.060	2.256	2.584	2.093	14.80
83) S	4-Bromofluorobenzene	0.723	0.732	0.709	0.726	0.689	0.705	0.695	0.692	0.709	2.34
84) TP	Bromobenzene		0.660	0.658	0.787	0.651	0.690	0.666	0.731	0.692	7.25

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA108**	**Ical Ref**	**: ICAL21441**
Calibration dates	**: 08/29/24 17:25 08/29/24 20:47**		

Calibration Files
L11 =V08240829N03.d L1 =V08240829N05.d L2 =V08240829N07.d L3 =V08240829N08.d L4 =V08240829N09.d
L6 =V08240829N10.d L8 =V08240829N11.d L10 =V08240829N12.d

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
85) TP	n-Propylbenzene		2.045	2.184	2.577	2.257	2.375	2.608	3.042	2.441	13.68
86) TP	1,4-Dichlorobu		0.593	0.597	0.719	0.606	0.680	0.653	0.759	0.658	9.81
87) TP	1,1,2,2-Tetrac		0.475	0.465	0.558	0.461	0.504	0.472	0.519	0.494	7.17
88) TP	4-Ethyltoluene		1.558	1.824	2.273	2.013	2.095	2.230	2.531	2.075	15.31
89) TP	2-Chlorotoluene		1.329	1.444	1.761	1.482	1.541	1.519	1.715	1.542	9.80
90) TP	1,3,5-Trimethy		1.377	1.619	2.093	1.844	1.915	2.019	2.339	1.887	16.75
91) TP	1,2,3-Trichlor		0.362	0.388	0.434	0.357	0.399	0.384	0.453	0.397	8.94
92) TP	trans-1,4-Dich		0.094	0.128	0.151	0.127	0.142	0.131	0.147	0.131	14.40
93) TP	4-Chlorotoluene		1.327	1.418	1.798	1.502	1.584	1.597	1.778	1.572	11.11
94) TP	tert-Butylbenzene		1.224	1.426	1.709	1.492	1.511	1.676	1.912	1.564	14.23
97) TP	1,2,4-Trimethy		1.276	1.552	2.102	1.857	1.945	2.001	2.245	1.854	18.02
98) TP	sec-Butylbenzene		1.642	1.984	2.322	2.012	2.026	2.360	2.729	2.154	16.18
99) TP	p-Isopropyltol		1.389	1.700	2.143	1.916	1.967	2.202	2.547	1.981	18.77
100) TP	1,3-Dichlorobe		1.259	1.250	1.515	1.254	1.302	1.272	1.397	1.321	7.55
101) TP	1,4-Dichlorobe		1.402	1.301	1.526	1.266	1.306	1.288	1.408	1.357	6.86
102) TP	p-Diethylbenzene			0.953	1.253	1.145	1.184	1.319	1.538	1.232	15.79
103) TP	n-Butylbenzene		1.214	1.441	1.673	1.466	1.493	1.711	2.018	1.574	16.23
104) TP	1,2-Dichlorobe		1.274	1.199	1.466	1.214	1.262	1.226	1.338	1.283	7.27
105) TP	1,2,4,5-Tetram			1.361	2.156	2.021	2.120	2.207	2.525	2.065	18.64
106) TP	1,2-Dibromo-3-		0.071	0.077	0.098	0.088	0.095	0.088	0.098	0.088	12.05
107) TP	1,3,5-Trichlor		0.955	0.929	1.106	0.954	0.959	0.979	1.102	0.998	7.43
108) TP	Hexachlorobuta		0.402	0.396	0.393	0.343	0.341	0.391	0.463	0.390	10.58
109) TP	1,2,4-Trichlor		0.787	0.790	0.988	0.866	0.894	0.895	1.021	0.892	10.01
110) TP	Naphthalene		1.211	1.213	1.792	1.662	1.771	1.728	1.936	1.616	17.84
111) TP	1,2,3-Trichlor		0.738	0.732	0.943	0.810	0.827	0.823	0.927	0.829	9.92

Response Factor Report VOA 108

Method Path : K:\VOA108\2024\240829N-ICAL\
Method File : V108_240829N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Sep 03 11:34:04 2024
Response Via : Initial Calibration

Calibration Files
L11 =V08240829N03.d L1 =V08240829N05.d L2 =V08240829N07.d L3 =V08240829N08.d L4 =V08240829N09.d
L6 =V08240829N10.d L8 =V08240829N11.d L10 =V08240829N12.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo...		0.190	0.229	0.202	0.164	0.184	0.228	0.245	0.206	14.03
3)	TP	Chloromethane		0.197	0.215	0.231	0.210	0.214	0.220	0.227	0.216	5.14
4)	TP	Vinyl chloride	0.287	0.290	0.319	0.316	0.285	0.297	0.321	0.335	0.306	6.16
5)	TP	Bromomethane		0.253	0.266	0.278	0.260	0.268	0.274	0.287	0.269	4.25
6)	TP	Chloroethane		0.254	0.297	0.295	0.275	0.285	0.294	0.250	0.278	7.00
7)	TP	Trichlorofluor...		0.446	0.513	0.459	0.384	0.422	0.539	0.597	0.480	15.31
8)	TP	Ethyl ether		0.185	0.189	0.202	0.187	0.195	0.195	0.206	0.194	4.06
10)	TP	1,1-Dichloroet...		0.165	0.188	0.181	0.162	0.176	0.203	0.223	0.185	11.60
11)	TP	Carbon disulfide		0.598	0.634	0.624	0.567	0.600	0.674	0.728	0.632	8.54
12)	TP	Freon-113			0.200	0.171	0.138	0.146	0.203	0.231	0.182	19.91
13)	TP	Iodomethane		0.293	0.369	0.411	0.405	0.435	0.441	0.448	0.400	13.59
14)	TP	Acrolein			0.024	0.028	0.027	0.031	0.031	0.033	0.029	12.16
15)	TP	Methylene chlo...		0.260	0.244	0.255	0.231	0.236	0.234	0.244	0.243	4.41
17)	TP	Acetone			0.053	0.045	0.041	0.040	0.040	0.041	0.044	11.68
18)	TP	trans-1,2-Dich...		0.205	0.225	0.226	0.213	0.224	0.235	0.249	0.225	6.37
19)	TP	Methyl acetate			0.114	0.107	0.097	0.104	0.104	0.110	0.106	5.45
20)	TP	Methyl tert-bu...		0.524	0.526	0.626	0.621	0.667	0.662	0.702	0.618	11.20
21)	TP	tert-Butyl alc...			0.013	0.016	0.016	0.017	0.017	0.018	0.016	10.63
22)	TP	Diisopropyl ether		0.494	0.526	0.637	0.621	0.659	0.660	0.697	0.614	12.17
23)	TP	1,1-Dichloroet...		0.346	0.391	0.416	0.384	0.393	0.396	0.417	0.392	6.07
24)	TP	Halothane		0.155	0.181	0.182	0.164	0.176	0.194	0.207	0.180	9.78
25)	TP	Acrylonitrile		0.037	0.051	0.060	0.060	0.063	0.062	0.067	0.057	18.00
26)	TP	Ethyl tert-but...		0.511	0.515	0.642	0.642	0.700	0.704	0.758	0.639	14.83
27)	TP	Vinyl acetate		0.357	0.371	0.452	0.444	0.478	0.479	0.519	0.443	13.35
28)	TP	cis-1,2-Dichlo...		0.241	0.244	0.272	0.255	0.264	0.263	0.276	0.259	5.07
29)	TP	2,2-Dichloropr...		0.250	0.299	0.296	0.276	0.287	0.308	0.325	0.292	8.23
30)	TP	Bromochloromet...		0.137	0.142	0.155	0.147	0.151	0.151	0.155	0.148	4.56
31)	TP	Cyclohexane			0.252	0.237	0.210	0.225	0.325	0.378	*Q	0.9958
32)	TP	Chloroform		0.391	0.419	0.449	0.407	0.414	0.412	0.430	0.418	4.40
33)	TP	Ethyl acetate			0.136	0.150	0.148	0.158	0.156	0.167	0.152	6.70

Response Factor Report VOA 108

Method Path : K:\VOA108\2024\240829N-ICAL\
Method File : V108_240829N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Sep 03 11:34:04 2024
Response Via : Initial Calibration

Calibration Files
L11 =V08240829N03.d L1 =V08240829N05.d L2 =V08240829N07.d L3 =V08240829N08.d L4 =V08240829N09.d
L6 =V08240829N10.d L8 =V08240829N11.d L10 =V08240829N12.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
34)	TP	Carbon tetrach...	0.243	0.290	0.350	0.331	0.296	0.313	0.373	0.410	0.326	16.01
35)	TP	Tetrahydrofuran			0.043	0.046	0.046	0.049	0.047	0.050	0.047	5.81
36)	S	Dibromofluorom...	0.309	0.314	0.305	0.307	0.302	0.300	0.298	0.300	0.304	1.82
37)	TP	1,1,1-Trichlor...		0.297	0.353	0.354	0.324	0.335	0.373	0.401	0.348	9.67
39)	TP	2-Butanone		0.054	0.064	0.067	0.061	0.064	0.063	0.068	0.063	7.64
40)	TP	1,1-Dichloropr...		0.202	0.238	0.252	0.234	0.249	0.287	0.315	0.254	14.64
41)	TP	Benzene	0.764	0.769	0.853	0.930	0.876	0.912	0.922	0.979	0.876	8.79
42)	TP	tert-Amyl meth...		0.415	0.455	0.561	0.564	0.610	0.620	0.670	0.557	16.47
43)	S	1,2-Dichloroet...	0.281	0.282	0.282	0.283	0.273	0.279	0.277	0.283	0.280	1.25
44)	TP	1,2-Dichloroet...		0.285	0.282	0.303	0.279	0.280	0.275	0.284	0.284	3.13
47)	TP	Methyl cyclohe...			0.260	0.235	0.216	0.219	0.343	0.417	*Q	0.9945
48)	TP	Trichloroethene	0.213	0.213	0.236	0.247	0.233	0.240	0.259	0.283	0.240	9.66
50)	TP	Dibromomethane		0.133	0.146	0.157	0.148	0.150	0.148	0.155	0.148	5.38
51)	TP	1,2-Dichloropr...		0.182	0.202	0.230	0.219	0.228	0.228	0.240	0.218	9.16
53)	TP	2-Chloroethyl ...			0.087	0.119	0.129	0.139	0.141	0.149	0.127	17.51
54)	TP	Bromodichlorom...		0.284	0.314	0.347	0.323	0.337	0.336	0.351	0.327	7.03
57)	TP	1,4-Dioxane		0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002#	10.88
58)	TP	cis-1,3-Dichlo...		0.266	0.304	0.366	0.357	0.373	0.370	0.392	0.347	12.91
59)	I	Chlorobenzene-d5	----------ISTD----------									
60)	S	Toluene-d8	1.196	1.202	1.213	1.237	1.176	1.178	1.137	1.131	1.184	3.07
61)	TP	Toluene		0.578	0.675	0.750	0.676	0.699	0.702	0.762	0.692	8.74
62)	TP	4-Methyl-2-pen...			0.049	0.066	0.068	0.078	0.077	0.086	0.071	18.27
63)	TP	Tetrachloroethene		0.284	0.341	0.340	0.296	0.296	0.336	0.375	0.324	10.12
65)	TP	trans-1,3-Dich...		0.276	0.328	0.399	0.376	0.395	0.379	0.405	0.365	12.88
67)	TP	Ethyl methacry...			0.199	0.288	0.295	0.338	0.333	0.370	0.304	19.56
68)	TP	1,1,2-Trichlor...		0.169	0.191	0.217	0.193	0.204	0.195	0.211	0.197#	7.96
69)	TP	Chlorodibromom...		0.315	0.321	0.382	0.347	0.364	0.348	0.370	0.350	7.17
70)	TP	1,3-Dichloropr...		0.360	0.361	0.417	0.375	0.389	0.369	0.388	0.380	5.33
71)	TP	1,2-Dibromoethane		0.219	0.230	0.269	0.240	0.247	0.234	0.244	0.240	6.53
72)	TP	2-Hexanone			0.071	0.099	0.105	0.119	0.116	0.126	0.106	18.71
73)	TP	Chlorobenzene		0.788	0.817	0.935	0.838	0.865	0.850	0.910	0.858	5.98

Method Path : K:\VOA108\2024\240829N-ICAL\
Method File : V108_240829N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Sep 03 11:34:04 2024
Response Via : Initial Calibration

Calibration Files
L11 =V08240829N03.d L1 =V08240829N05.d L2 =V08240829N07.d L3 =V08240829N08.d L4 =V08240829N09.d
L6 =V08240829N10.d L8 =V08240829N11.d L10 =V08240829N12.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
74)	TP	Ethylbenzene		0.999	1.134	1.332	1.253	1.277	1.342	1.476	1.259	12.27
75)	TP	1,1,1,2-Tetrac...		0.290	0.319	0.378	0.340	0.347	0.338	0.360	0.339	8.33
76)	TP	p/m Xylene		0.373	0.451	0.568	0.531	0.550	0.577	0.657	0.529	17.41
77)	TP	o Xylene		0.348	0.442	0.568	0.536	0.561	0.572	0.643	0.524	18.74
78)	TP	Styrene		0.562	0.715	0.960	0.907	0.978	0.987		*L	0.9992
79)	I	1,4-Dichlorobenzene-d4	----------ISTD----------									
80)	TP	Bromoform		0.363	0.345	0.428	0.375	0.416	0.393	0.445	0.395	9.21
82)	TP	Isopropylbenzene		1.638	1.854	2.272	1.988	2.060	2.256	2.584	2.093	14.80
83)	S	4-Bromofluorob...	0.723	0.732	0.709	0.726	0.689	0.705	0.695	0.692	0.709	2.34
84)	TP	Bromobenzene		0.660	0.658	0.787	0.651	0.690	0.666	0.731	0.692	7.25
85)	TP	n-Propylbenzene		2.045	2.184	2.577	2.257	2.375	2.608	3.042	2.441	13.68
86)	TP	1,4-Dichlorobu...		0.593	0.597	0.719	0.606	0.680	0.653	0.759	0.658	9.81
87)	TP	1,1,2,2-Tetrac...		0.475	0.465	0.558	0.461	0.504	0.472	0.519	0.494	7.17
88)	TP	4-Ethyltoluene		1.558	1.824	2.273	2.013	2.095	2.230	2.531	2.075	15.31
89)	TP	2-Chlorotoluene		1.329	1.444	1.761	1.482	1.541	1.519	1.715	1.542	9.80
90)	TP	1,3,5-Trimethy...		1.377	1.619	2.093	1.844	1.915	2.019	2.339	1.887	16.75
91)	TP	1,2,3-Trichlor...		0.362	0.388	0.434	0.357	0.399	0.384	0.453	0.397	8.94
92)	TP	trans-1,4-Dich...		0.094	0.128	0.151	0.127	0.142	0.131	0.147	0.131	14.40
93)	TP	4-Chlorotoluene		1.327	1.418	1.798	1.502	1.584	1.597	1.778	1.572	11.11
94)	TP	tert-Butylbenzene		1.224	1.426	1.709	1.492	1.511	1.676	1.912	1.564	14.23
97)	TP	1,2,4-Trimethy...		1.276	1.552	2.102	1.857	1.945	2.001	2.245	1.854	18.02
98)	TP	sec-Butylbenzene		1.642	1.984	2.322	2.012	2.026	2.360	2.729	2.154	16.18
99)	TP	p-Isopropyltol...		1.389	1.700	2.143	1.916	1.967	2.202	2.547	1.981	18.77
100)	TP	1,3-Dichlorobe...		1.259	1.250	1.515	1.254	1.302	1.272	1.397	1.321	7.55
101)	TP	1,4-Dichlorobe...		1.402	1.301	1.526	1.266	1.306	1.288	1.408	1.357	6.86
102)	TP	p-Diethylbenzene			0.953	1.253	1.145	1.184	1.319	1.538	1.232	15.79
103)	TP	n-Butylbenzene		1.214	1.441	1.673	1.466	1.493	1.711	2.018	1.574	16.23
104)	TP	1,2-Dichlorobe...		1.274	1.199	1.466	1.214	1.262	1.226	1.338	1.283	7.27
105)	TP	1,2,4,5-Tetram...			1.361	2.156	2.021	2.120	2.207	2.525	2.065	18.64
106)	TP	1,2-Dibromo-3-...		0.071	0.077	0.098	0.088	0.095	0.088	0.098	0.088	12.05
107)	TP	1,3,5-Trichlor...		0.955	0.929	1.106	0.954	0.959	0.979	1.102	0.998	7.43

Method Path : K:\VOA108\2024\240829N-ICAL\
Method File : V108_240829N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Sep 03 11:34:04 2024
Response Via : Initial Calibration

Calibration Files
L11 =V08240829N03.d L1 =V08240829N05.d L2 =V08240829N07.d L3 =V08240829N08.d L4 =V08240829N09.d
L6 =V08240829N10.d L8 =V08240829N11.d L10 =V08240829N12.d

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
108)	TP Hexachlorobuta...	0.402	0.396	0.393	0.343	0.341	0.391	0.463	0.390	10.58	
109)	TP 1,2,4-Trichlor...	0.787	0.790	0.988	0.866	0.894	0.895	1.021	0.892	10.01	
110)	TP Naphthalene	1.211	1.213	1.792	1.662	1.771	1.728	1.936	1.616	17.84	
111)	TP 1,2,3-Trichlor...	0.738	0.732	0.943	0.810	0.827	0.823	0.927	0.829	9.92	

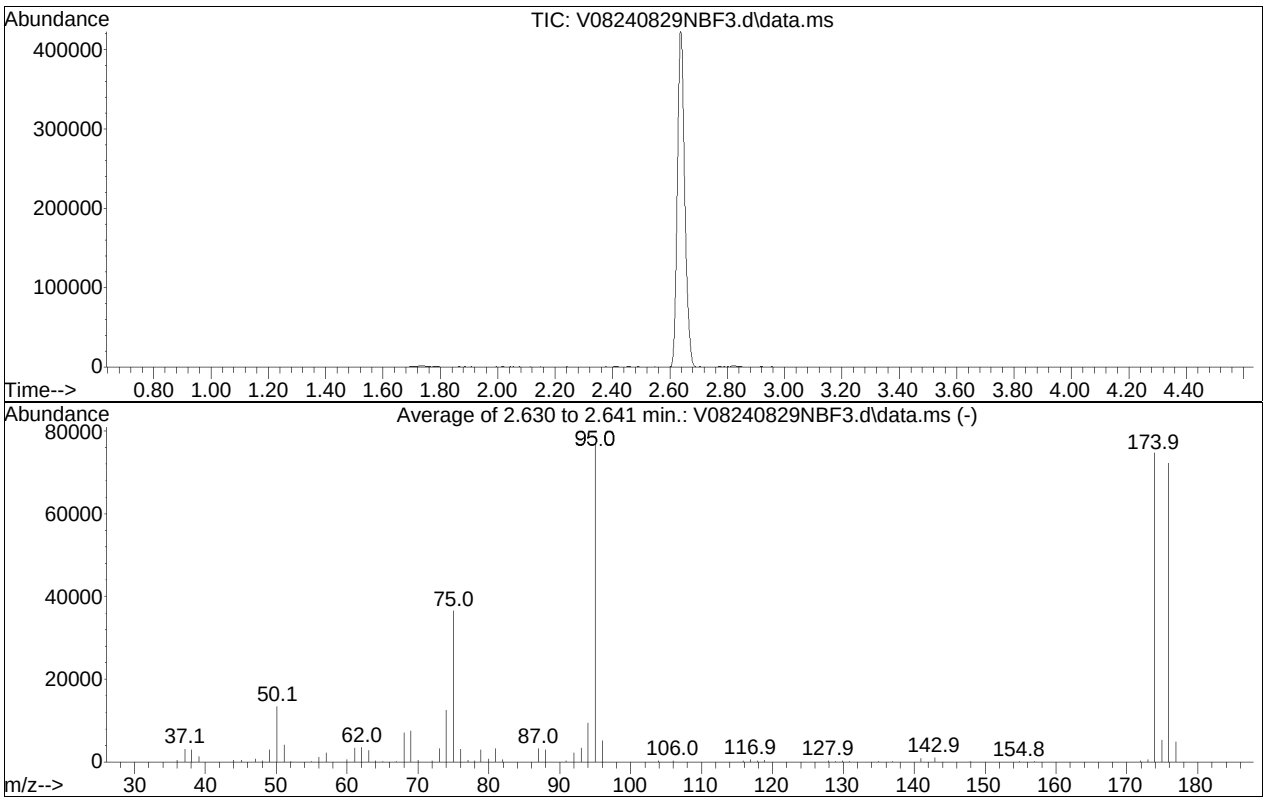
(#) = Out of Range

BFB

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829NBF3.d
Acq On : 29 Aug 2024 4:20 pm
Operator : VOA108:MAG
Sample : WG1966886-1
Misc : WG1966886
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Sep 03 11:34:04 2024



AutoFind: Scans 180, 181, 182; Background Corrected with Scan 172

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.4	13432	PASS
75	95	30	60	47.3	36499	PASS
95	95	100	100	100.0	77181	PASS
96	95	5	9	6.8	5263	PASS
173	174	0.00	2	0.9	705	PASS
174	95	50	100	96.8	74685	PASS
175	174	5	9	7.1	5315	PASS
176	174	95	101	96.8	72304	PASS
177	176	5	9	6.8	4944	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N03.d
Acq On : 29 Aug 2024 5:25 pm
Operator : VOA108:PID
Sample : I8260STD0.19PPB
Misc : WG1966886,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 03 11:26:42 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-L11 - Level 11 for 8260-LRR product

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.030	96	230650	10.000	ug/L	0.00
Standard Area 1 = 229722			Recovery = 100.40%			
59) Chlorobenzene-d5	9.553	117	182552	10.000	ug/L	0.00
Standard Area 1 = 181751			Recovery = 100.44%			
79) 1,4-Dichlorobenzene-d4	12.248	152	98731	10.000	ug/L	0.00
Standard Area 1 = 103176			Recovery = 95.69%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.223	113	71299	10.158	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.58%			
43) 1,2-Dichloroethane-d4	5.747	65	64724	10.022	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.22%			
60) Toluene-d8	7.713	98	218412	10.108	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.08%			
83) 4-Bromofluorobenzene	11.042	95	71420	10.204	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.04%			
Target Compounds						Qvalue
4) Vinyl chloride	1.935	62	1258	0.178	ug/L	97
34) Carbon tetrachloride	5.186	117	1065	0.142	ug/L #	25
41) Benzene	5.616	78	3346	0.166	ug/L #	74
48) Trichloroethene	6.203	95	934	0.168	ug/L	91

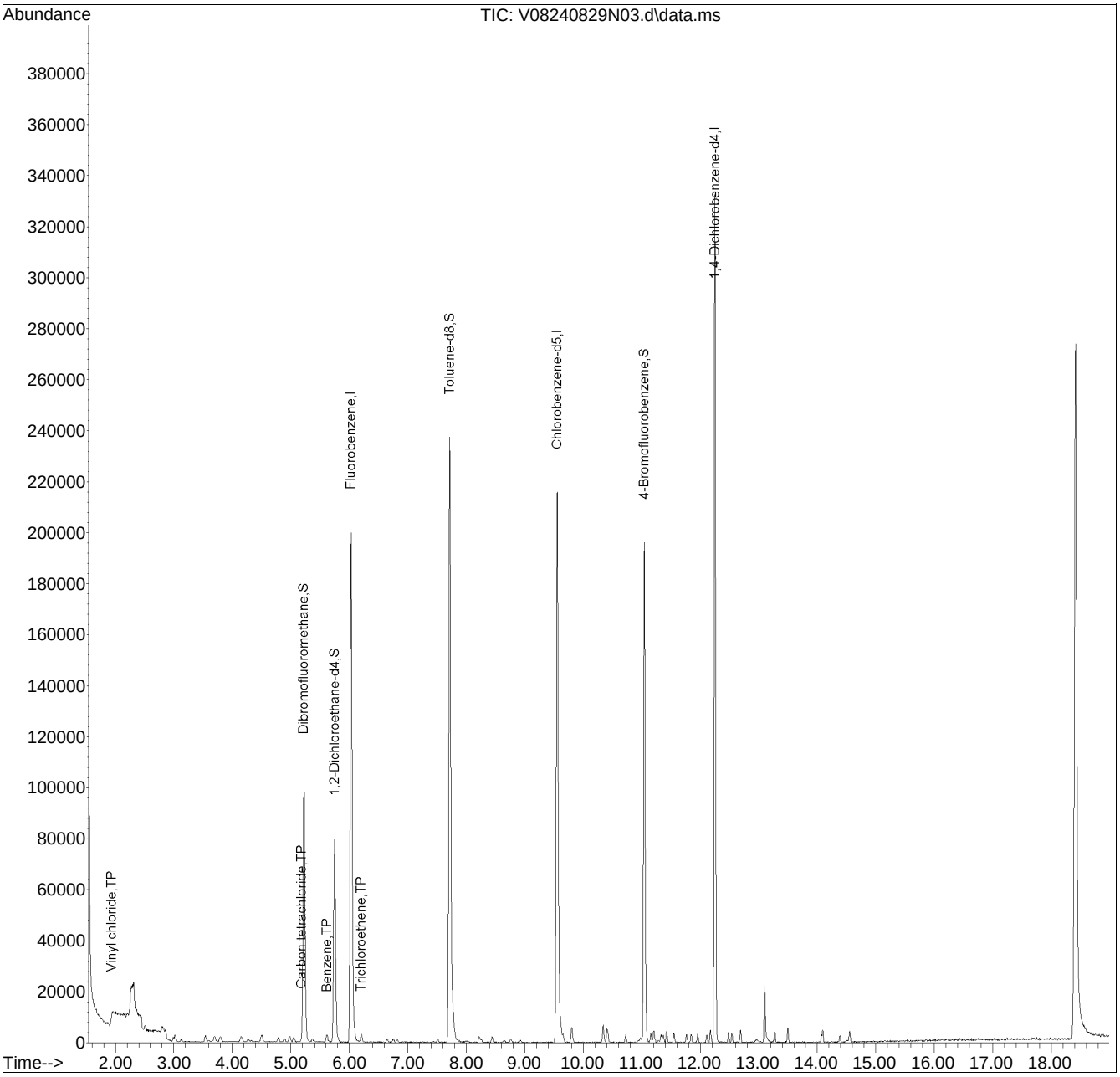
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N03.d
Acq On : 29 Aug 2024 5:25 pm
Operator : VOA108:PID
Sample : I8260STD0.19PPB
Misc : WG1966886,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 03 11:26:42 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

Sub List : 8260-L11 - Level 11 for 8260-LRR product9N08.d•



Manual Integration Report

Data Path	: K:\VOA108\2024\240829N-ICAQ	Method	: V108_240829N_8260.m
Data File	: V08240829N03.d	Operator	: VOA108:PID
Date Inj'd	: 8/29/2024 5:25 pm	Instrument	: VOA 108
Sample	: I8260STD0.19PPB	Quant Date	: 9/3/2024 11:26 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N05.d
Acq On : 29 Aug 2024 6:10 pm
Operator : VOA108:PID
Sample : I8260STD0.5PPB
Misc : WG1966886,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 03 11:26:49 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.030	96	226912	10.000	ug/L	0.00
Standard Area 1 = 229722			Recovery = 98.78%			
59) Chlorobenzene-d5	9.553	117	184230	10.000	ug/L	0.00
Standard Area 1 = 181751			Recovery = 101.36%			
79) 1,4-Dichlorobenzene-d4	12.248	152	99536	10.000	ug/L	0.00
Standard Area 1 = 103176			Recovery = 96.47%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.223	113	71285	10.323	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.23%			
43) 1,2-Dichloroethane-d4	5.747	65	63931	10.062	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.62%			
60) Toluene-d8	7.713	98	221465	10.156	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.56%			
83) 4-Bromofluorobenzene	11.042	95	72873	10.327	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.27%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.673	85	2154	0.461	ug/L #	82
3) Chloromethane	1.867	50	2238	0.456	ug/L #	86
4) Vinyl chloride	1.935	62	3289	0.473	ug/L	98
5) Bromomethane	2.250	94	2873	0.470	ug/L	97
6) Chloroethane	2.365	64	2886	0.457	ug/L	93
7) Trichlorofluoromethane	2.512	101	5060	0.465	ug/L	98
8) Ethyl ether	2.800	74	2096M1	0.476	ug/L	
10) 1,1-Dichloroethene	2.989	96	1874	0.446	ug/L #	54
11) Carbon disulfide	3.021	76	6779	0.473	ug/L	100
12) Freon-113	3.031	101	1647	0.412	ug/L #	82
13) Iodomethane	3.125	142	3325	0.366	ug/L	84
14) Acrolein	3.309	56	53	0.092	ug/L #	82
15) Methylene chloride	3.540	84	2946	0.534	ug/L	67
17) Acetone	3.582	43	1247	1.037	ug/L #	72
18) trans-1,2-Dichloroethene	3.697	96	2322	0.454	ug/L #	62
19) Methyl acetate	3.707	43	2033	0.768	ug/L #	88
20) Methyl tert-butyl ether	3.797	73	5942	0.423	ug/L	94
21) tert-Butyl alcohol	3.891	59	462M6	1.366	ug/L	
22) Diisopropyl ether	4.153	45	5610	0.403	ug/L #	81
23) 1,1-Dichloroethane	4.279	63	3922	0.441	ug/L	95
24) Halothane	4.326	117	1756	0.430	ug/L	97

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N05.d
Acq On : 29 Aug 2024 6:10 pm
Operator : VOA108:PID
Sample : I8260STD0.5PPB
Misc : WG1966886,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 03 11:26:49 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.326	53	415	0.321	ug/L	#	81
26) Ethyl tert-butyl ether	4.499	59	5803	0.400	ug/L		90
27) Vinyl acetate	4.504	43	4051	0.403	ug/L	#	91
28) cis-1,2-Dichloroethene	4.787	96	2736	0.465	ug/L	#	57
29) 2,2-Dichloropropane	4.882	77	2831	0.428	ug/L		98
30) Bromochloromethane	4.987	128	1555	0.463	ug/L	#	50
31) Cyclohexane	4.987	56	2394	0.402	ug/L	#	59
32) Chloroform	5.050	83	4436	0.468	ug/L		94
33) Ethyl acetate	0.000		0	N.D.	d		
34) Carbon tetrachloride	5.181	117	3293	0.446	ug/L	#	86
35) Tetrahydrofuran	0.000		0	N.D.	d		
37) 1,1,1-Trichloroethane	5.244	97	3372	0.427	ug/L		88
39) 2-Butanone	5.343	43	612	0.427	ug/L	#	90
40) 1,1-Dichloropropene	5.369	75	2290	0.398	ug/L		95
41) Benzene	5.611	78	8730	0.439	ug/L	#	84
42) tert-Amyl methyl ether	5.721	73	4705	0.373	ug/L		94
44) 1,2-Dichloroethane	5.815	62	3228	0.501	ug/L		96
47) Methyl cyclohexane	6.203	83	2473	0.400	ug/L	#	65
48) Trichloroethene	6.208	95	2413	0.442	ug/L		87
50) Dibromomethane	6.649	93	1504	0.448	ug/L	#	83
51) 1,2-Dichloropropane	6.743	63	2061M6	0.416	ug/L		
53) 2-Chloroethyl vinyl ether	7.440	63	863	0.317	ug/L	#	75
54) Bromodichloromethane	6.822	83	3222	0.434	ug/L	#	98
57) 1,4-Dioxane	7.032	88	3088	82.316	ug/L	#	67
58) cis-1,3-Dichloropropene	7.514	75	3022	0.384	ug/L	#	88
61) Toluene	7.776	92	5327	0.418	ug/L		100
62) 4-Methyl-2-pentanone	8.206	58	201	0.171	ug/L	#	1
63) Tetrachloroethene	8.222	166	2616	0.438	ug/L		84
65) trans-1,3-Dichloropropene	8.253	75	2539	0.377	ug/L		97
67) Ethyl methacrylate	8.447	69	1632	0.310	ug/L	#	3
68) 1,1,2-Trichloroethane	8.442	83	1556	0.428	ug/L	#	84
69) Chlorodibromomethane	8.652	129	2899	0.450	ug/L		90
70) 1,3-Dichloropropane	8.762	76	3314	0.474	ug/L		98
71) 1,2-Dibromoethane	8.924	107	2017	0.456	ug/L		99
72) 2-Hexanone	9.223	43	421	0.235	ug/L	#	58
73) Chlorobenzene	9.574	112	7263	0.460	ug/L	#	86
74) Ethylbenzene	9.611	91	9199	0.397	ug/L		95
75) 1,1,1,2-Tetrachloroethane	9.653	131	2674	0.428	ug/L		92
76) p/m Xylene	9.805	106	6873	0.705	ug/L		87
77) o Xylene	10.345	106	6406	0.663	ug/L		86

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N05.d
Acq On : 29 Aug 2024 6:10 pm
Operator : VOA108:PID
Sample : I8260STD0.5PPB
Misc : WG1966886,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 03 11:26:49 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.408	104	10351	0.633	ug/L	#	82
80) Bromoform	10.424	173	1809	0.460	ug/L		91
82) Isopropylbenzene	10.723	105	8150	0.391	ug/L		96
84) Bromobenzene	11.153	156	3284	0.477	ug/L		95
85) n-Propylbenzene	11.200	91	10178	0.419	ug/L		93
86) 1,4-Dichlorobutane	11.215	55	2953M6	0.451	ug/L		
87) 1,1,2,2-Tetrachloroethane	11.289	83	2366	0.482	ug/L		94
88) 4-Ethyltoluene	11.331	105	7753	0.375	ug/L		92
89) 2-Chlorotoluene	11.362	91	6612M6	0.431	ug/L		
90) 1,3,5-Trimethylbenzene	11.425	105	6852	0.365	ug/L	#	85
91) 1,2,3-Trichloropropane	11.420	75	1803	0.457	ug/L		95
92) trans-1,4-Dichloro-2-b...	11.472	53	468	0.358	ug/L	#	63
93) 4-Chlorotoluene	11.551	91	6606	0.422	ug/L	#	87
94) tert-Butylbenzene	11.766	119	6092	0.391	ug/L		94
97) 1,2,4-Trimethylbenzene	11.845	105	6348	0.344	ug/L	#	85
98) sec-Butylbenzene	11.955	105	8174	0.381	ug/L		94
99) p-Isopropyltoluene	12.112	119	6914	0.351	ug/L		87
100) 1,3-Dichlorobenzene	12.175	146	6267	0.476	ug/L		94
101) 1,4-Dichlorobenzene	12.264	146	6979	0.517	ug/L		93
102) p-Diethylbenzene	12.484	119	3951	0.339	ug/L		95
103) n-Butylbenzene	12.537	91	6042	0.386	ug/L	#	92
104) 1,2-Dichlorobenzene	12.684	146	6340	0.497	ug/L		91
105) 1,2,4,5-Tetramethylben...	13.271	119	6051	0.313	ug/L		93
106) 1,2-Dibromo-3-chloropr...	13.465	155	351	0.402	ug/L		98
107) 1,3,5-Trichlorobenzene	13.496	180	4754	0.479	ug/L	#	90
108) Hexachlorobutadiene	14.073	225	1999	0.515	ug/L		94
109) 1,2,4-Trichlorobenzene	14.094	180	3917	0.441	ug/L		99
110) Naphthalene	14.387	128	6026	0.375	ug/L		100
111) 1,2,3-Trichlorobenzene	14.555	180	3672	0.445	ug/L		96

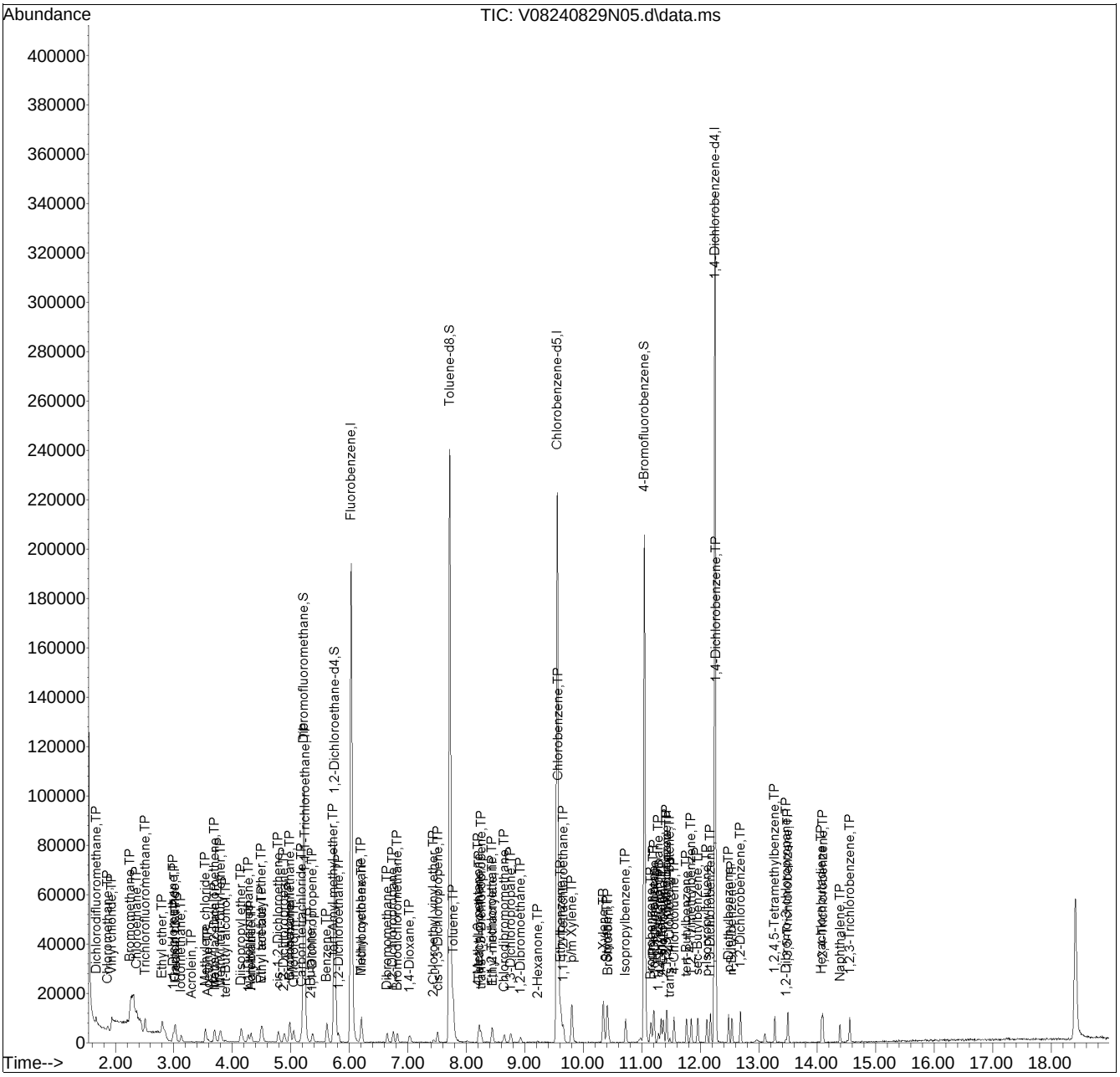
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N05.d
Acq On : 29 Aug 2024 6:10 pm
Operator : VOA108:PID
Sample : I8260STD0.5PPB
Misc : WG1966886,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 03 11:26:49 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

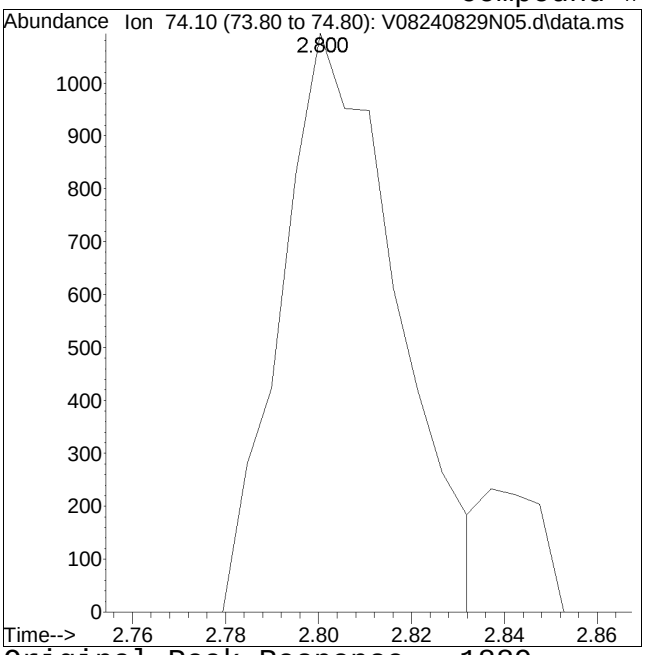
Sub List : 8260-Curve - Megamix plus DioxL\V08240829N08.d•



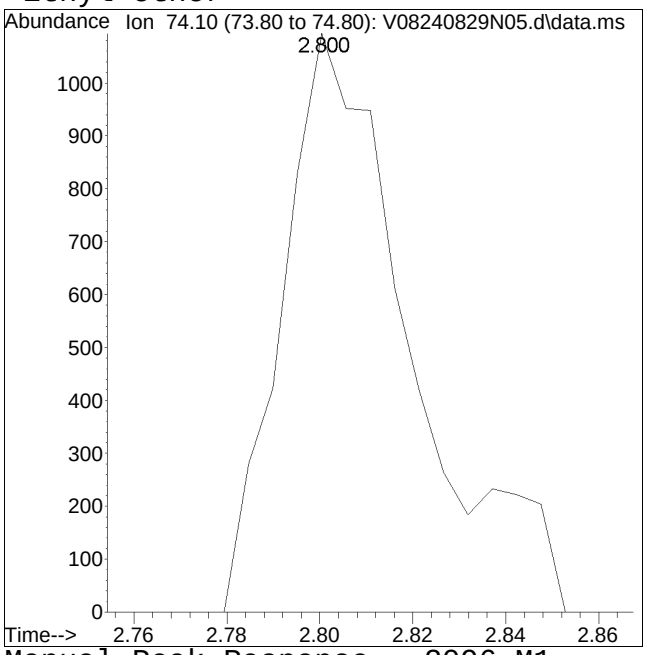
Manual Integration Report

Data Path : K:\VOA108\2024\240829N-ICAQMethod : V108_240829N_8260.m
Data File : V08240829N05.d Operator : VOA108:PID
Date Inj'd : 8/29/2024 6:10 pm Instrument : VOA 108
Sample : I8260STD0.5PPB Quant Date : 9/3/2024 11:26 am

Compound #8: Ethyl ether



Original Peak Response = 1889



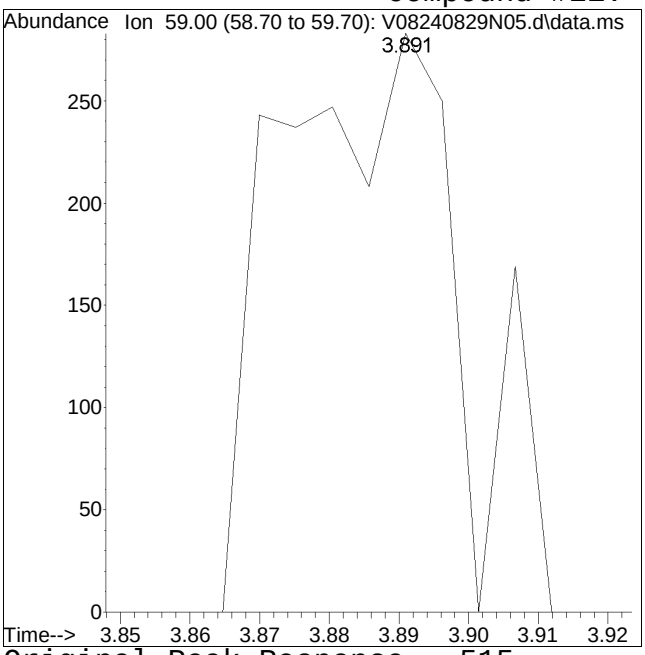
Manual Peak Response = 2096 M1

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

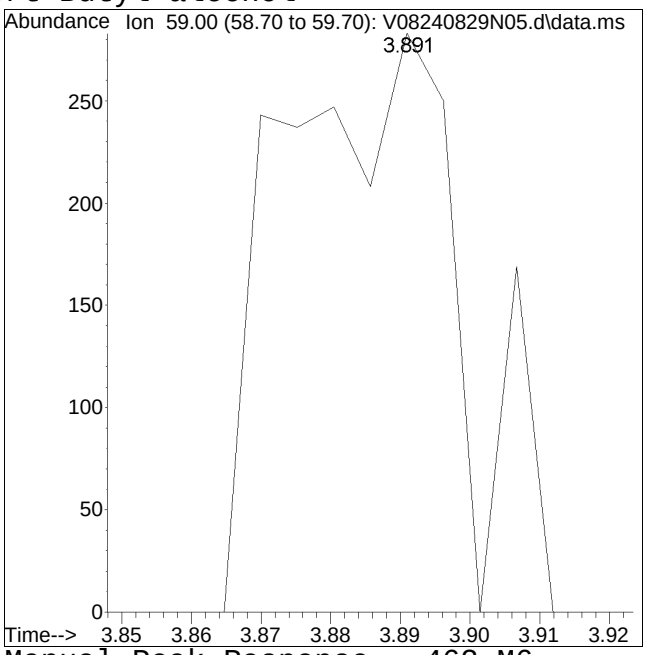
Manual Integration Report

Data Path : K:\VOA108\2024\240829N-ICAQMethod : V108_240829N_8260.m
Data File : V08240829N05.d Operator : VOA108:PID
Date Inj'd : 8/29/2024 6:10 pm Instrument : VOA 108
Sample : I8260STD0.5PPB Quant Date : 9/3/2024 11:26 am

Compound #21: tert-Butyl alcohol



Original Peak Response = 515



Manual Peak Response = 462 M6

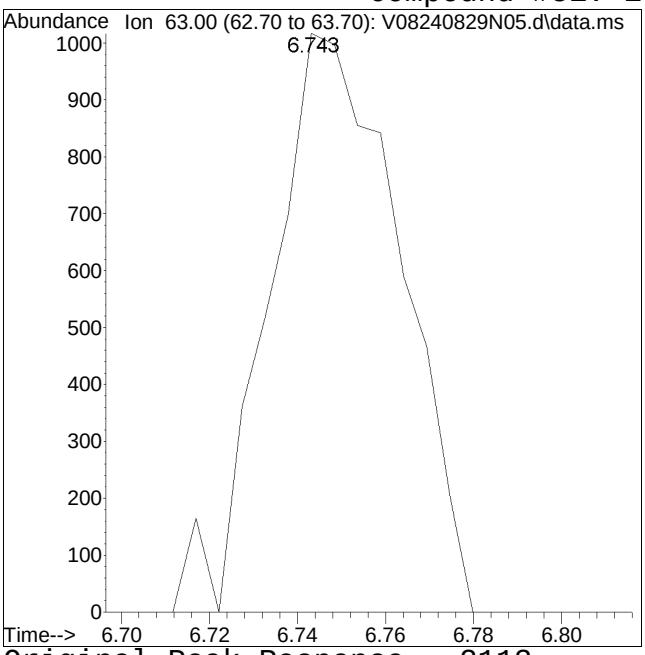
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

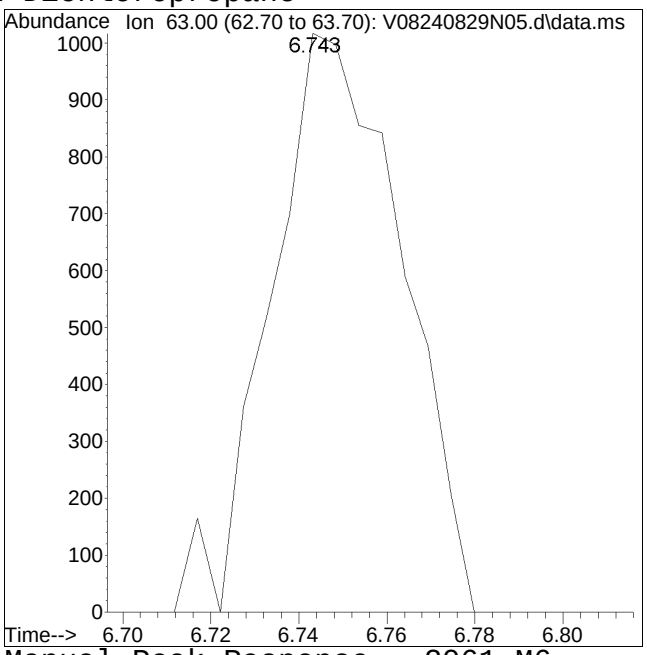
Data Path : K:\VOA108\2024\240829N-ICAQ
Data File : V08240829N05.d
Date Inj'd : 8/29/2024 6:10 pm
Sample : I8260STD0.5PPB

Method : V108_240829N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 9/3/2024 11:26 am

Compound #51: 1,2-Dichloropropane



Original Peak Response = 2113



Manual Peak Response = 2061 M6

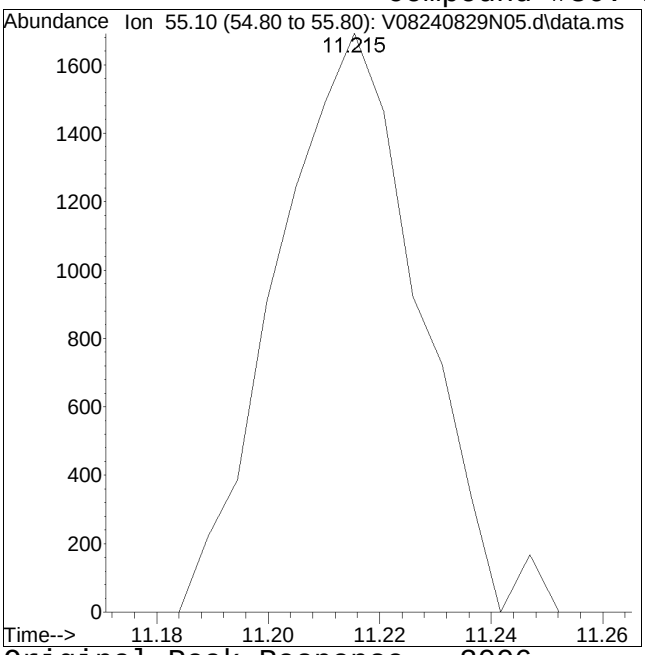
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

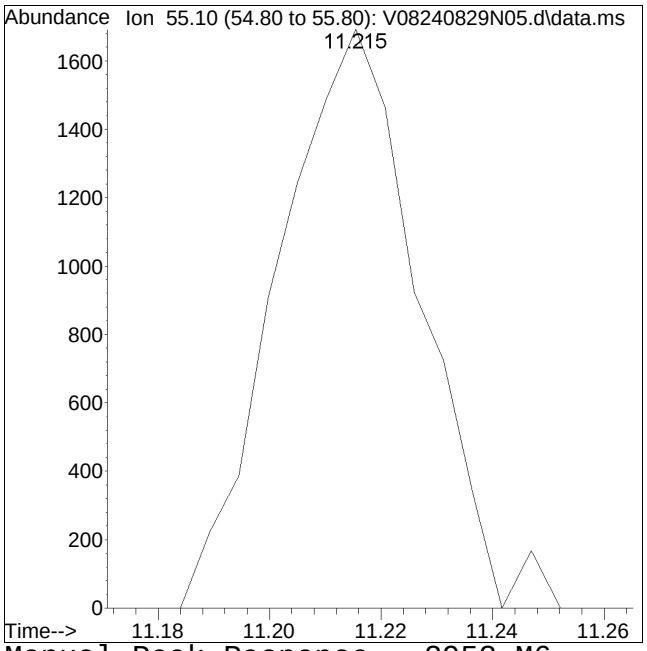
Data Path : K:\VOA108\2024\240829N-ICAQ
Data File : V08240829N05.d
Date Inj'd : 8/29/2024 6:10 pm
Sample : I8260STD0.5PPB

Method : V108_240829N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 9/3/2024 11:26 am

Compound #86: 1,4-Dichlorobutane



Original Peak Response = 3006



Manual Peak Response = 2953 M6

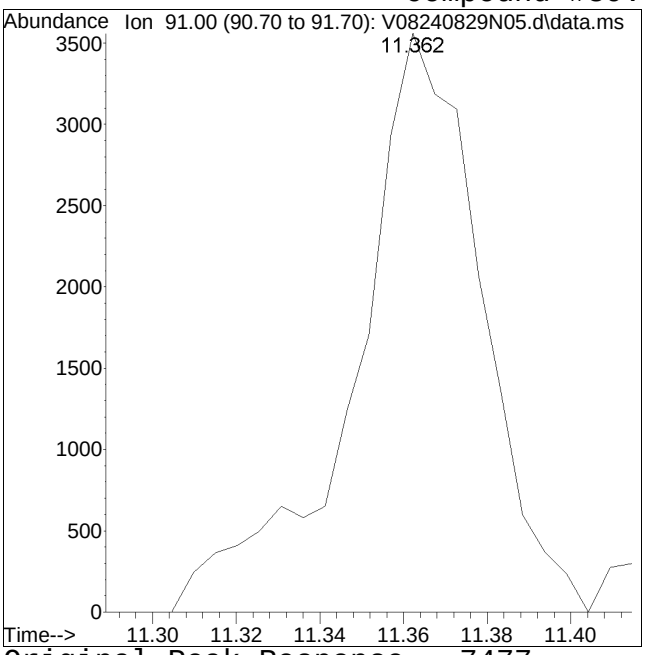
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

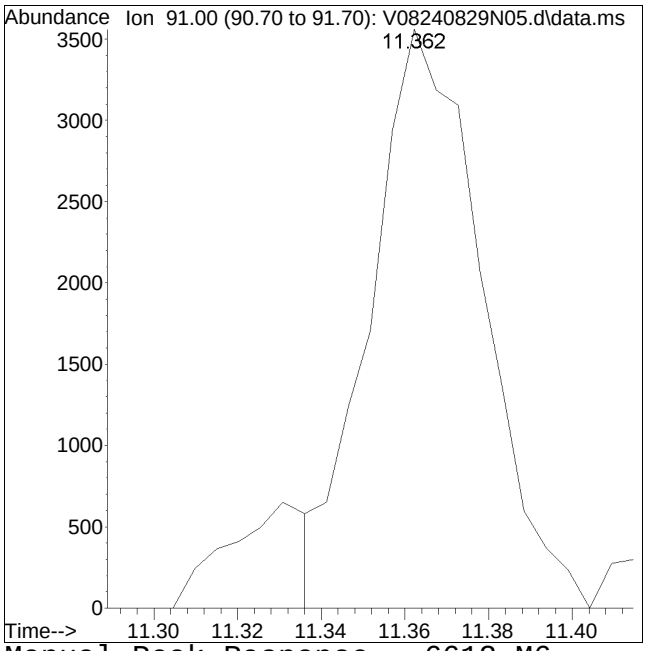
Data Path : K:\VOA108\2024\240829N-ICAQ
Data File : V08240829N05.d
Date Inj'd : 8/29/2024 6:10 pm
Sample : I8260STD0.5PPB

Method : V108_240829N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 9/3/2024 11:26 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 7477



Manual Peak Response = 6612 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N07.d
Acq On : 29 Aug 2024 6:55 pm
Operator : VOA108:PID
Sample : I8260STD2PPB
Misc : WG1966886,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 11:26:56 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.030	96	229766	10.000	ug/L	0.00
Standard Area 1 = 229722			Recovery = 100.02%			
59) Chlorobenzene-d5	9.553	117	186137	10.000	ug/L	0.00
Standard Area 1 = 181751			Recovery = 102.41%			
79) 1,4-Dichlorobenzene-d4	12.248	152	109621	10.000	ug/L	0.00
Standard Area 1 = 103176			Recovery = 106.25%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.228	113	70165	10.035	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.35%			
43) 1,2-Dichloroethane-d4	5.747	65	64906	10.088	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.88%			
60) Toluene-d8	7.718	98	225722	10.246	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.46%			
83) 4-Bromofluorobenzene	11.042	95	77709	9.999	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.99%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.673	85	10522	2.223	ug/L	94
3) Chloromethane	1.872	50	9889	1.989	ug/L	98
4) Vinyl chloride	1.940	62	14681	2.086	ug/L	93
5) Bromomethane	2.250	94	12207	1.972	ug/L	94
6) Chloroethane	2.365	64	13626	2.130	ug/L	95
7) Trichlorofluoromethane	2.507	101	23560	2.137	ug/L	99
8) Ethyl ether	2.805	74	8670	1.944	ug/L #	74
10) 1,1-Dichloroethene	2.989	96	8618	2.024	ug/L #	58
11) Carbon disulfide	3.020	76	29153	2.007	ug/L	96
12) Freon-113	3.036	101	9189	2.268	ug/L	87
13) Iodomethane	3.125	142	16939	1.843	ug/L	85
14) Acrolein	3.314	56	1081	1.847	ug/L	94
15) Methylene chloride	3.540	84	11209	2.005	ug/L	67
17) Acetone	3.592	43	2449	2.011	ug/L #	81
18) trans-1,2-Dichloroethene	3.697	96	10319	1.994	ug/L	67
19) Methyl acetate	3.702	43	5252	1.959	ug/L #	84
20) Methyl tert-butyl ether	3.802	73	24191	1.703	ug/L	95
21) tert-Butyl alcohol	3.886	59	3018M6	8.810	ug/L	
22) Diisopropyl ether	4.148	45	24192	1.716	ug/L #	80
23) 1,1-Dichloroethane	4.274	63	17983	1.997	ug/L	98
24) Halothane	4.321	117	8331	2.015	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N07.d
Acq On : 29 Aug 2024 6:55 pm
Operator : VOA108:PID
Sample : I8260STD2PPB
Misc : WG1966886,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 11:26:56 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.321	53	2327	1.777	ug/L	#	85
26) Ethyl tert-butyl ether	4.494	59	23649	1.611	ug/L	#	84
27) Vinyl acetate	4.509	43	17066	1.677	ug/L	#	91
28) cis-1,2-Dichloroethene	4.787	96	11214	1.882	ug/L	#	65
29) 2,2-Dichloropropane	4.892	77	13753	2.053	ug/L		94
30) Bromochloromethane	4.981	128	6506	1.911	ug/L	#	46
31) Cyclohexane	4.987	56	11573	1.919	ug/L	#	56
32) Chloroform	5.050	83	19267	2.008	ug/L		95
33) Ethyl acetate	5.160	43	6272	1.791	ug/L	#	85
34) Carbon tetrachloride	5.186	117	16091	2.150	ug/L		98
35) Tetrahydrofuran	5.212	42	1966	1.830	ug/L	#	71
37) 1,1,1-Trichloroethane	5.254	97	16232	2.029	ug/L	#	92
39) 2-Butanone	5.359	43	2951	2.033	ug/L	#	79
40) 1,1-Dichloropropene	5.375	75	10929	1.874	ug/L		90
41) Benzene	5.616	78	39190	1.948	ug/L	#	87
42) tert-Amyl methyl ether	5.726	73	20909	1.635	ug/L		97
44) 1,2-Dichloroethane	5.815	62	12952	1.985	ug/L		95
47) Methyl cyclohexane	6.208	83	11934	1.906	ug/L	#	68
48) Trichloroethene	6.208	95	10844	1.963	ug/L	#	86
50) Dibromomethane	6.643	93	6695	1.969	ug/L	#	87
51) 1,2-Dichloropropane	6.753	63	9289	1.851	ug/L		97
53) 2-Chloroethyl vinyl ether	7.440	63	4006	1.453	ug/L	#	83
54) Bromodichloromethane	6.822	83	14415	1.917	ug/L		98
57) 1,4-Dioxane	7.037	88	14147	372.430	ug/L	#	65
58) cis-1,3-Dichloropropene	7.508	75	13987	1.754	ug/L	#	84
61) Toluene	7.776	92	25118	1.951	ug/L		95
62) 4-Methyl-2-pentanone	8.201	58	1833	1.548	ug/L	#	91
63) Tetrachloroethene	8.222	166	12682	2.102	ug/L	#	83
65) trans-1,3-Dichloropropene	8.258	75	12227	1.798	ug/L		91
67) Ethyl methacrylate	8.447	69	7410	1.393	ug/L	#	11
68) 1,1,2-Trichloroethane	8.437	83	7123	1.941	ug/L		92
69) Chlorodibromomethane	8.651	129	11934	1.834	ug/L		96
70) 1,3-Dichloropropane	8.756	76	13428	1.900	ug/L		99
71) 1,2-Dibromoethane	8.924	107	8553	1.912	ug/L		94
72) 2-Hexanone	9.218	43	2633M6	1.453	ug/L		
73) Chlorobenzene	9.574	112	30401	1.905	ug/L		99
74) Ethylbenzene	9.616	91	42229	1.802	ug/L		94
75) 1,1,1,2-Tetrachloroethane	9.658	131	11894	1.885	ug/L		98
76) p/m Xylene	9.800	106	33557	3.405	ug/L		88
77) o Xylene	10.340	106	32879	3.369	ug/L		80

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N07.d
Acq On : 29 Aug 2024 6:55 pm
Operator : VOA108:PID
Sample : I8260STD2PPB
Misc : WG1966886,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 11:26:56 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.408	104	53251	3.221	ug/L	#	84
80) Bromoform	10.424	173	7566	1.747	ug/L		95
82) Isopropylbenzene	10.722	105	40651	1.772	ug/L		93
84) Bromobenzene	11.158	156	14420	1.901	ug/L		99
85) n-Propylbenzene	11.205	91	47882	1.789	ug/L		92
86) 1,4-Dichlorobutane	11.210	55	13085	1.814	ug/L		95
87) 1,1,2,2-Tetrachloroethane	11.283	83	10192	1.884	ug/L		98
88) 4-Ethyltoluene	11.325	105	39997	1.759	ug/L		92
89) 2-Chlorotoluene	11.362	91	31666M6	1.874	ug/L		
90) 1,3,5-Trimethylbenzene	11.425	105	35485	1.716	ug/L	#	84
91) 1,2,3-Trichloropropane	11.420	75	8496	1.954	ug/L		98
92) trans-1,4-Dichloro-2-b...	11.472	53	2799	1.946	ug/L	#	83
93) 4-Chlorotoluene	11.551	91	31088	1.804	ug/L	#	83
94) tert-Butylbenzene	11.766	119	31264	1.823	ug/L		94
97) 1,2,4-Trimethylbenzene	11.844	105	34034	1.675	ug/L		89
98) sec-Butylbenzene	11.955	105	43500	1.843	ug/L		90
99) p-Isopropyltoluene	12.112	119	37262	1.716	ug/L		91
100) 1,3-Dichlorobenzene	12.175	146	27407	1.892	ug/L		96
101) 1,4-Dichlorobenzene	12.264	146	28527	1.918	ug/L		97
102) p-Diethylbenzene	12.484	119	20898	1.630	ug/L		89
103) n-Butylbenzene	12.542	91	31584	1.831	ug/L	#	96
104) 1,2-Dichlorobenzene	12.689	146	26293	1.870	ug/L		95
105) 1,2,4,5-Tetramethylben...	13.271	119	29840	1.401	ug/L		91
106) 1,2-Dibromo-3-chloropr...	13.465	155	1684	1.750	ug/L		84
107) 1,3,5-Trichlorobenzene	13.496	180	20372	1.862	ug/L	#	92
108) Hexachlorobutadiene	14.073	225	8677	2.031	ug/L		97
109) 1,2,4-Trichlorobenzene	14.094	180	17330	1.773	ug/L		98
110) Naphthalene	14.387	128	26586	1.501	ug/L		100
111) 1,2,3-Trichlorobenzene	14.555	180	16052	1.767	ug/L		98

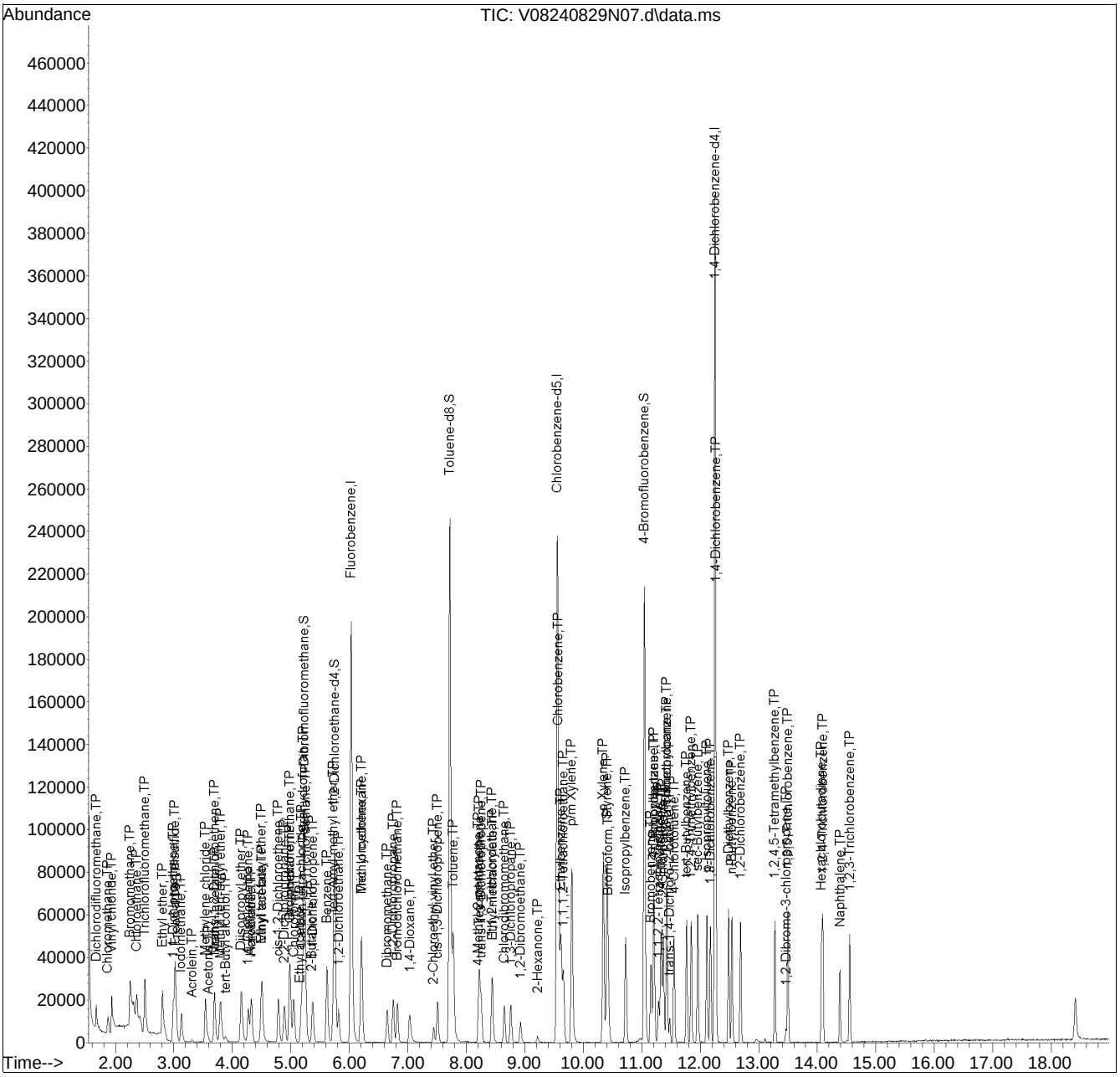
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N07.d
Acq On : 29 Aug 2024 6:55 pm
Operator : VOA108:PID
Sample : I8260STD2PPB
Misc : WG1966886,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 11:26:56 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus DioxL\V08240829N08.d•

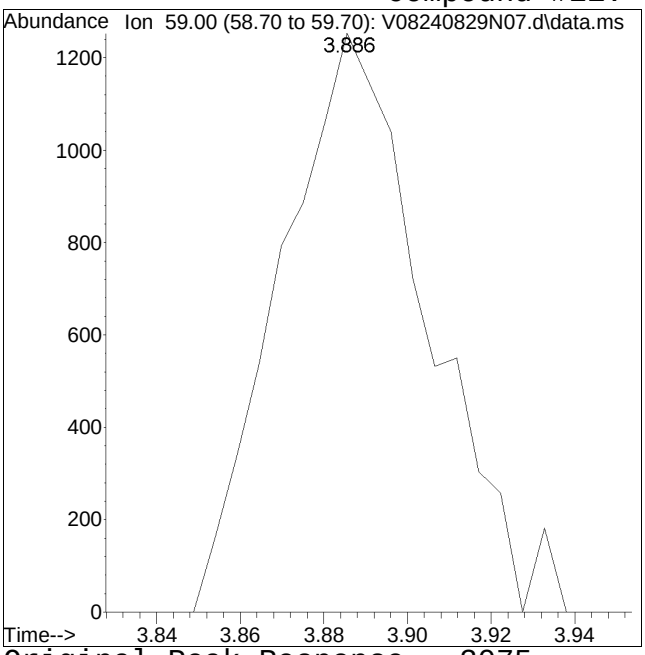


Manual Integration Report

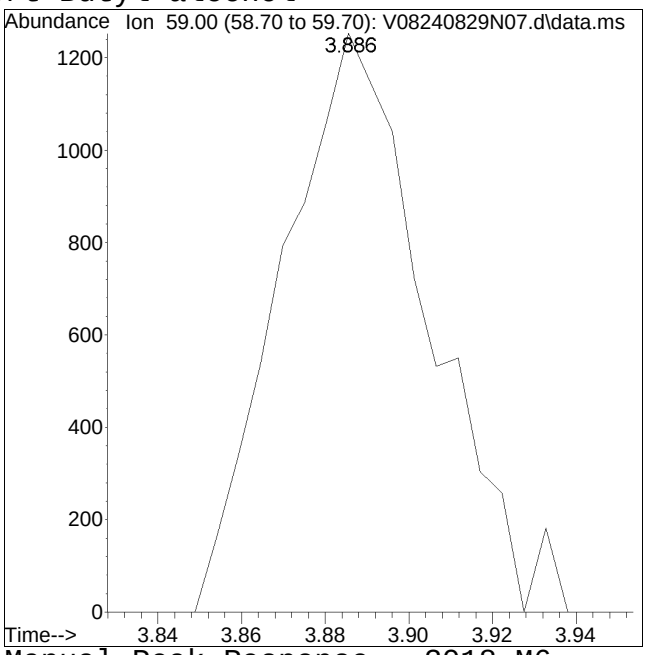
Data Path : K:\VOA108\2024\240829N-ICAQ
Data File : V08240829N07.d
Date Inj'd : 8/29/2024 6:55 pm
Sample : I8260STD2PPB

Method : V108_240829N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 9/3/2024 11:26 am

Compound #21: tert-Butyl alcohol



Original Peak Response = 3075



Manual Peak Response = 3018 M6

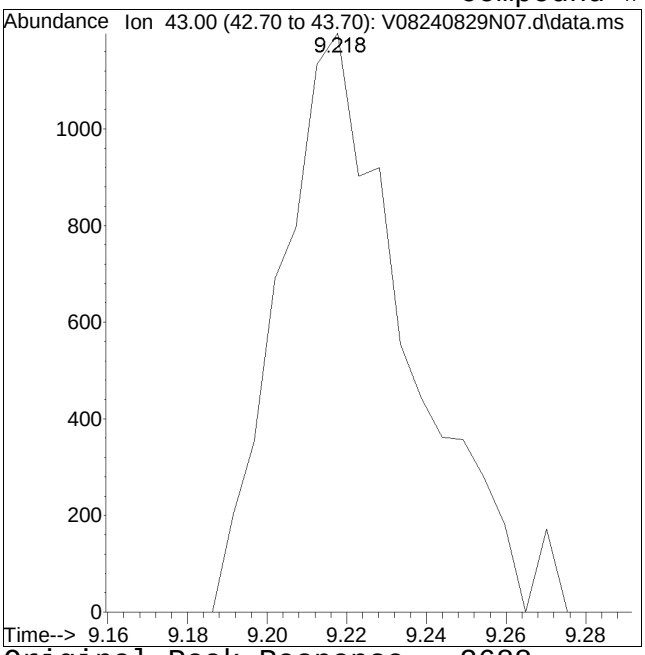
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

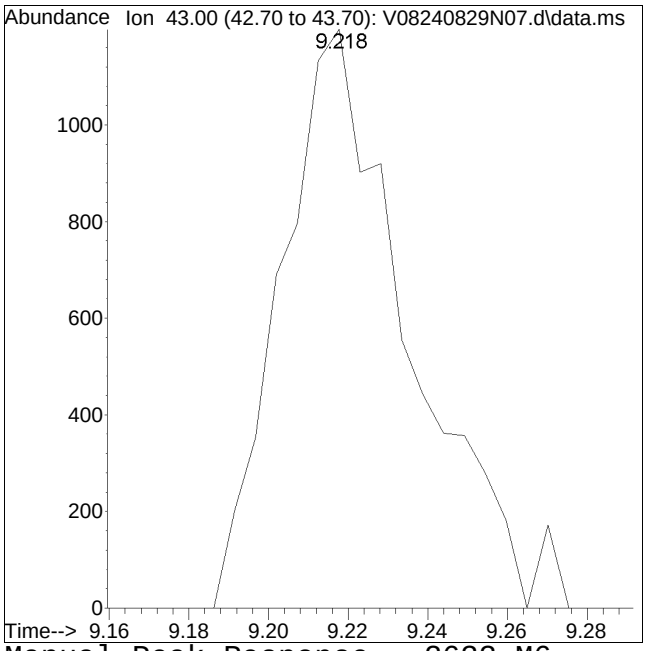
Data Path : K:\VOA108\2024\240829N-ICAQ
Data File : V08240829N07.d
Date Inj'd : 8/29/2024 6:55 pm
Sample : I8260STD2PPB

Method : V108_240829N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 9/3/2024 11:26 am

Compound #72: 2-Hexanone



Original Peak Response = 2688



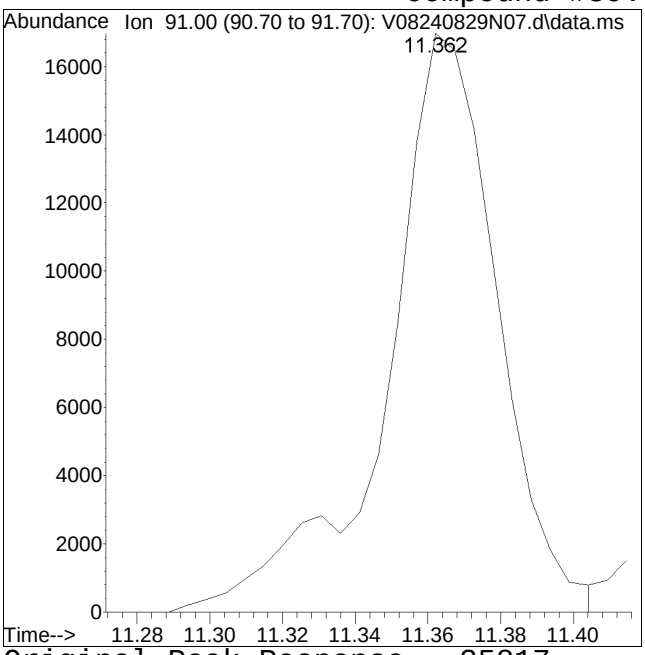
Manual Peak Response = 2633 M6

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

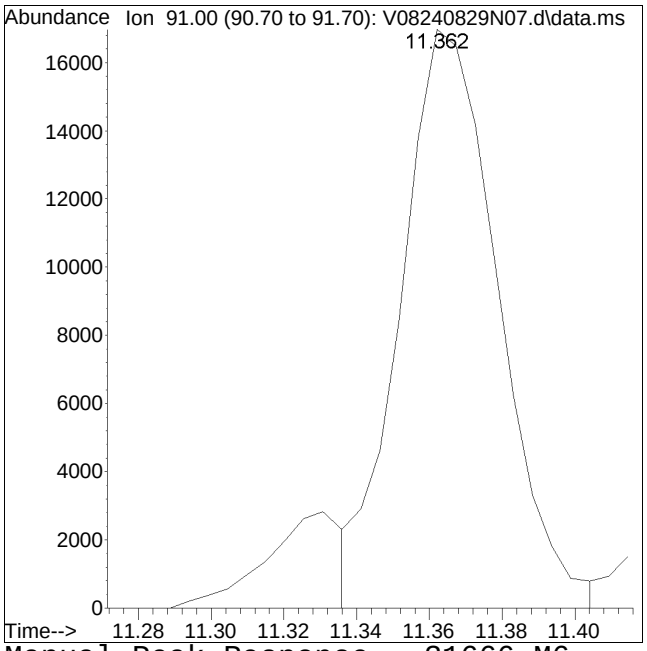
Manual Integration Report

Data Path : K:\VOA108\2024\240829N-ICAQMethod : V108_240829N_8260.m
Data File : V08240829N07.d Operator : VOA108:PID
Date Inj'd : 8/29/2024 6:55 pm Instrument : VOA 108
Sample : I8260STD2PPB Quant Date : 9/3/2024 11:26 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 35817



Manual Peak Response = 31666 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N08.d
Acq On : 29 Aug 2024 7:17 pm
Operator : VOA108:PID
Sample : I8260STD10PPB
Misc : WG1966886,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 03 11:27:03 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.030	96	229722	10.000	ug/L	0.00
Standard Area 1 = 229722			Recovery = 100.00%			
59) Chlorobenzene-d5	9.553	117	181751	10.000	ug/L	0.00
Standard Area 1 = 181751			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.253	152	103176	10.000	ug/L	0.00
Standard Area 1 = 103176			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.228	113	70422	10.073	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.73%			
43) 1,2-Dichloroethane-d4	5.752	65	64936	10.095	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.95%			
60) Toluene-d8	7.718	98	224738	10.447	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.47%			
83) 4-Bromofluorobenzene	11.042	95	74916	10.242	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.42%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.673	85	46404	9.804	ug/L	97
3) Chloromethane	1.872	50	53066	10.678	ug/L	99
4) Vinyl chloride	1.940	62	72578	10.314	ug/L	93
5) Bromomethane	2.250	94	63958	10.334	ug/L	98
6) Chloroethane	2.365	64	67661	10.581	ug/L	97
7) Trichlorofluoromethane	2.507	101	105360	9.559	ug/L	99
8) Ethyl ether	2.806	74	46461	10.422	ug/L	75
10) 1,1-Dichloroethene	2.989	96	41598	9.771	ug/L #	58
11) Carbon disulfide	3.020	76	143268	9.867	ug/L	96
12) Freon-113	3.026	101	39197	9.677	ug/L	88
13) Iodomethane	3.131	142	94354	10.265	ug/L	87
14) Acrolein	3.309	56	6396	10.931	ug/L	98
15) Methylene chloride	3.540	84	58513	10.467	ug/L	66
17) Acetone	3.581	43	10284	8.447	ug/L	98
18) trans-1,2-Dichloroethene	3.692	96	51954	10.041	ug/L	70
19) Methyl acetate	3.702	43	24681	9.207	ug/L #	77
20) Methyl tert-butyl ether	3.796	73	143885	10.129	ug/L	93
21) tert-Butyl alcohol	3.891	59	18001	52.560	ug/L #	52
22) Diisopropyl ether	4.153	45	146348	10.384	ug/L #	87
23) 1,1-Dichloroethane	4.268	63	95546	10.614	ug/L	98
24) Halothane	4.326	117	41895	10.135	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N08.d
Acq On : 29 Aug 2024 7:17 pm
Operator : VOA108:PID
Sample : I8260STD10PPB
Misc : WG1966886,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 03 11:27:03 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.310	53	13695	10.460	ug/L	#	89
26) Ethyl tert-butyl ether	4.499	59	147476	10.049	ug/L	#	85
27) Vinyl acetate	4.504	43	103846	10.204	ug/L	#	89
28) cis-1,2-Dichloroethene	4.787	96	62395	10.475	ug/L	#	64
29) 2,2-Dichloropropane	4.887	77	68002	10.152	ug/L		93
30) Bromochloromethane	4.976	128	35535	10.442	ug/L	#	47
31) Cyclohexane	4.987	56	54458	9.030	ug/L	#	58
32) Chloroform	5.050	83	103198	10.759	ug/L		94
33) Ethyl acetate	5.160	43	34380	9.818	ug/L	#	92
34) Carbon tetrachloride	5.186	117	75948	10.149	ug/L		99
35) Tetrahydrofuran	5.202	42	10516M6	9.790	ug/L		
37) 1,1,1-Trichloroethane	5.249	97	81292	10.161	ug/L	#	90
39) 2-Butanone	5.343	43	15499	10.678	ug/L	#	76
40) 1,1-Dichloropropene	5.369	75	57782	9.908	ug/L		90
41) Benzene	5.616	78	213673	10.622	ug/L	#	88
42) tert-Amyl methyl ether	5.726	73	128919	10.083	ug/L		95
44) 1,2-Dichloroethane	5.820	62	69518	10.659	ug/L		97
47) Methyl cyclohexane	6.203	83	53926	8.613	ug/L	#	63
48) Trichloroethene	6.208	95	56723	10.271	ug/L	#	85
50) Dibromomethane	6.649	93	36099	10.616	ug/L	#	86
51) 1,2-Dichloropropane	6.748	63	52928	10.546	ug/L		98
53) 2-Chloroethyl vinyl ether	7.440	63	27321	9.911	ug/L	#	82
54) Bromodichloromethane	6.822	83	79630	10.592	ug/L	#	99
57) 1,4-Dioxane	7.031	88	19590	515.820	ug/L	#	66
58) cis-1,3-Dichloropropene	7.509	75	84016	10.538	ug/L	#	84
61) Toluene	7.776	92	136385	10.847	ug/L		95
62) 4-Methyl-2-pentanone	8.211	58	11909	10.297	ug/L	#	94
63) Tetrachloroethene	8.222	166	61842	10.495	ug/L		85
65) trans-1,3-Dichloropropene	8.253	75	72574	10.928	ug/L		88
67) Ethyl methacrylate	8.447	69	52391	10.089	ug/L	#	28
68) 1,1,2-Trichloroethane	8.442	83	39408	10.999	ug/L		88
69) Chlorodibromomethane	8.646	129	69453	10.933	ug/L		96
70) 1,3-Dichloropropane	8.762	76	75770	10.979	ug/L		98
71) 1,2-Dibromoethane	8.929	107	48816	11.178	ug/L		96
72) 2-Hexanone	9.213	43	18044	10.200	ug/L		95
73) Chlorobenzene	9.574	112	169949	10.904	ug/L		94
74) Ethylbenzene	9.616	91	242011	10.577	ug/L		94
75) 1,1,1,2-Tetrachloroethane	9.658	131	68721	11.156	ug/L		97
76) p/m Xylene	9.805	106	206476	21.458	ug/L		86
77) o Xylene	10.340	106	206494	21.670	ug/L		82

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N08.d
Acq On : 29 Aug 2024 7:17 pm
Operator : VOA108:PID
Sample : I8260STD10PPB
Misc : WG1966886,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 03 11:27:03 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.408	104	348944	21.618	ug/L	#	85
80) Bromoform	10.429	173	44164	10.835	ug/L		97
82) Isopropylbenzene	10.723	105	234438	10.856	ug/L		92
84) Bromobenzene	11.152	156	81198	11.374	ug/L		98
85) n-Propylbenzene	11.200	91	265921	10.558	ug/L	#	90
86) 1,4-Dichlorobutane	11.215	55	74154	10.922	ug/L		95
87) 1,1,2,2-Tetrachloroethane	11.284	83	57532	11.297	ug/L		99
88) 4-Ethyltoluene	11.331	105	234488	10.953	ug/L		91
89) 2-Chlorotoluene	11.367	91	181650M6	11.421	ug/L		
90) 1,3,5-Trimethylbenzene	11.425	105	215908	11.092	ug/L	#	85
91) 1,2,3-Trichloropropane	11.425	75	44747	10.934	ug/L		92
92) trans-1,4-Dichloro-2-b...	11.472	53	15557	11.492	ug/L	#	71
93) 4-Chlorotoluene	11.546	91	185504	11.437	ug/L	#	83
94) tert-Butylbenzene	11.766	119	176311	10.924	ug/L		92
97) 1,2,4-Trimethylbenzene	11.845	105	216850	11.337	ug/L	#	86
98) sec-Butylbenzene	11.955	105	239556	10.781	ug/L		92
99) p-Isopropyltoluene	12.112	119	221089	10.819	ug/L		91
100) 1,3-Dichlorobenzene	12.170	146	156347	11.468	ug/L		96
101) 1,4-Dichlorobenzene	12.264	146	157416	11.245	ug/L		96
102) p-Diethylbenzene	12.484	119	129249	10.713	ug/L		89
103) n-Butylbenzene	12.542	91	172638	10.633	ug/L	#	95
104) 1,2-Dichlorobenzene	12.689	146	151306	11.431	ug/L		95
105) 1,2,4,5-Tetramethylben...	13.276	119	222403	11.091	ug/L		93
106) 1,2-Dibromo-3-chloropr...	13.465	155	10136	11.192	ug/L		89
107) 1,3,5-Trichlorobenzene	13.496	180	114111	11.084	ug/L	#	91
108) Hexachlorobutadiene	14.073	225	40556	10.083	ug/L		97
109) 1,2,4-Trichlorobenzene	14.094	180	101888	11.076	ug/L		98
110) Naphthalene	14.387	128	184877	11.087	ug/L		100
111) 1,2,3-Trichlorobenzene	14.555	180	97271	11.379	ug/L		99

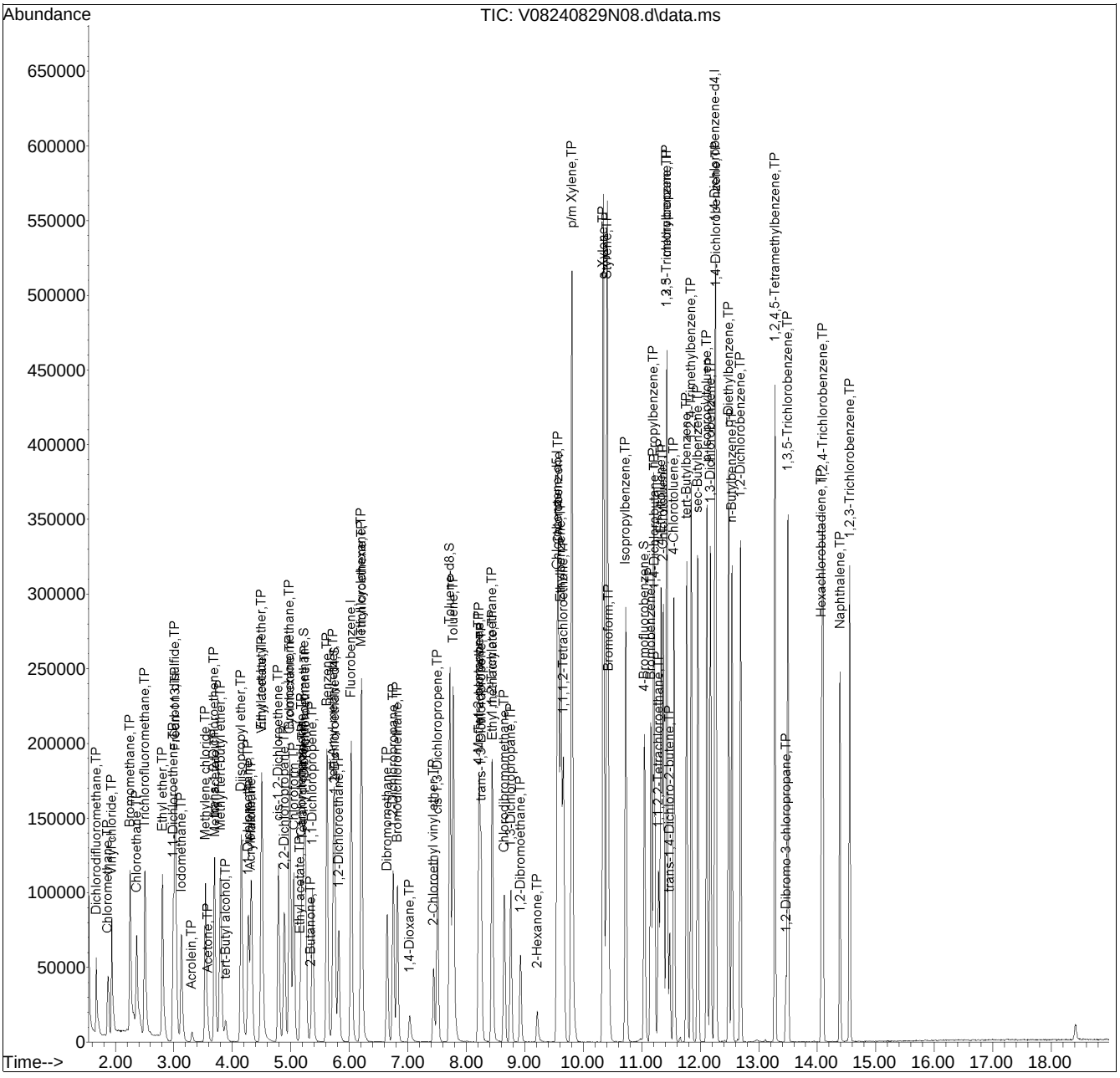
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N08.d
Acq On : 29 Aug 2024 7:17 pm
Operator : VOA108:PID
Sample : I8260STD10PPB
Misc : WG1966886,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 03 11:27:03 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus DioxL\V08240829N08.d•

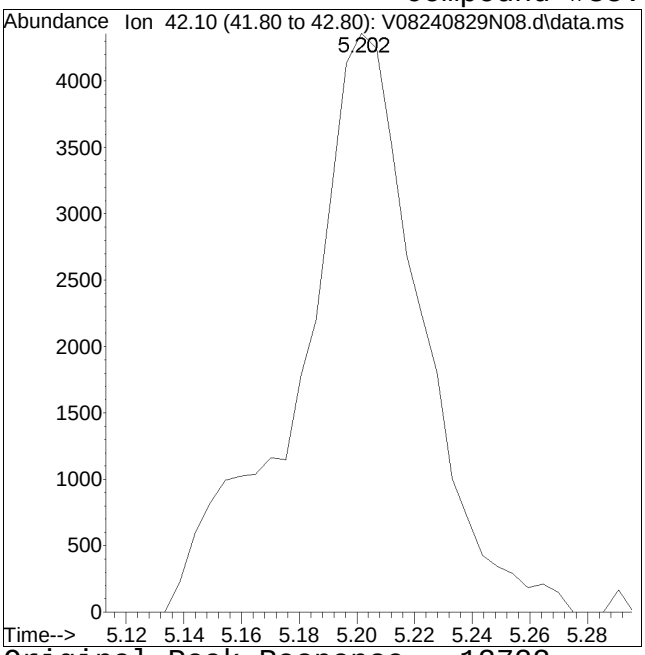


Manual Integration Report

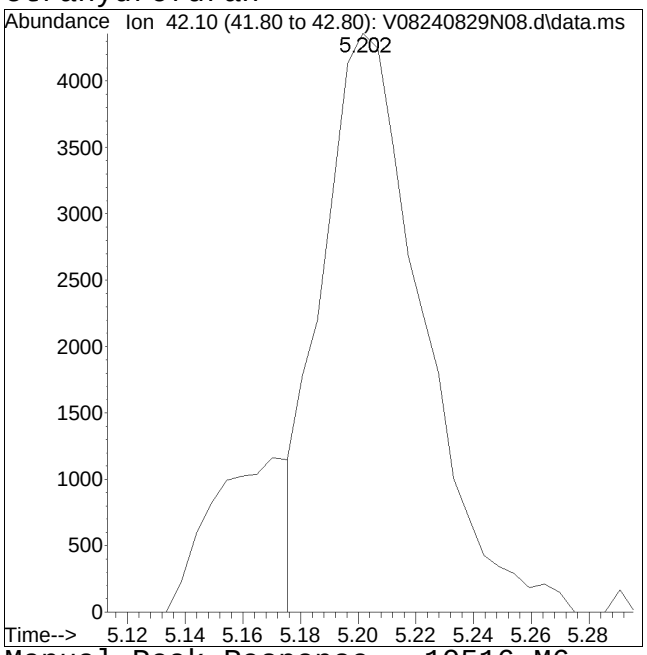
Data Path : K:\VOA108\2024\240829N-ICAQ
Data File : V08240829N08.d
Date Inj'd : 8/29/2024 7:17 pm
Sample : I8260STD10PPB

Method : V108_240829N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 9/3/2024 11:26 am

Compound #35: Tetrahydrofuran



Original Peak Response = 12722



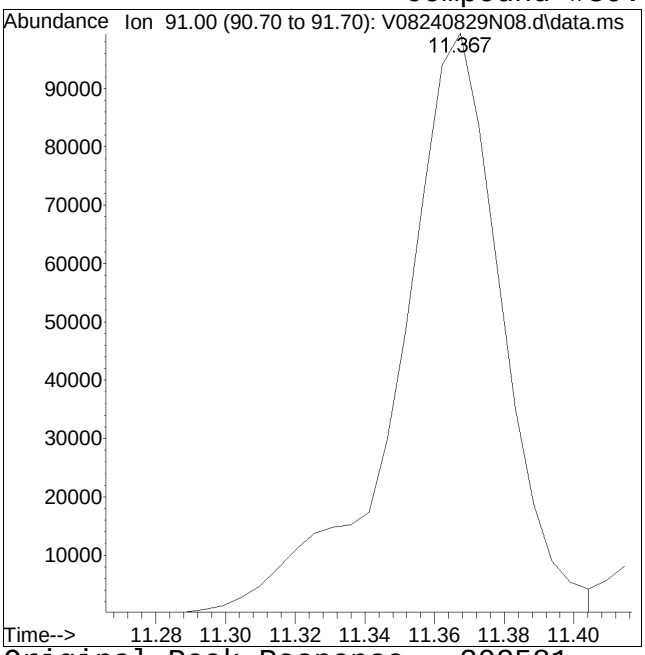
Manual Peak Response = 10516 M6

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

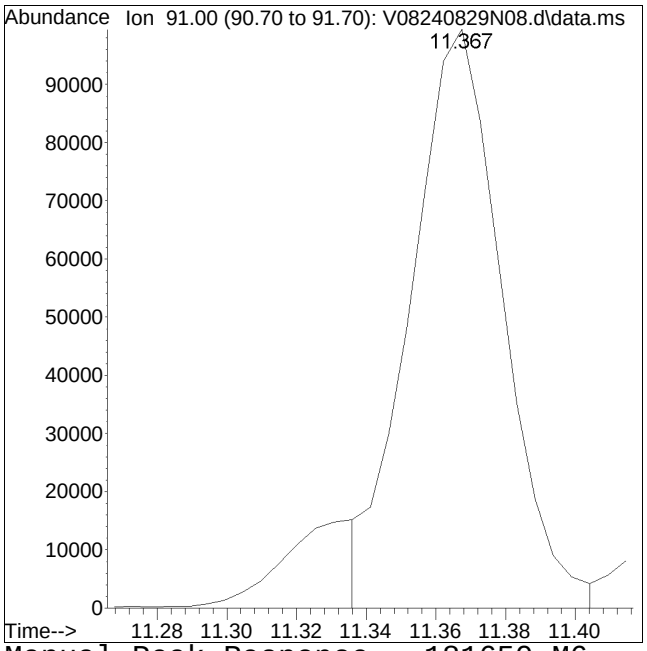
Manual Integration Report

Data Path : K:\VOA108\2024\240829N-ICAQMethod : V108_240829N_8260.m
Data File : V08240829N08.d Operator : VOA108:PID
Date Inj'd : 8/29/2024 7:17 pm Instrument : VOA 108
Sample : I8260STD10PPB Quant Date : 9/3/2024 11:26 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 202581



Manual Peak Response = 181650 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N09.d
Acq On : 29 Aug 2024 7:39 pm
Operator : VOA108:PID
Sample : I8260STD30PPB
Misc : WG1966886,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 03 11:27:10 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.035	96	247775	10.000	ug/L	0.00
Standard Area 1 = 229722			Recovery = 107.86%			
59) Chlorobenzene-d5	9.554	117	209590	10.000	ug/L	0.00
Standard Area 1 = 181751			Recovery = 115.32%			
79) 1,4-Dichlorobenzene-d4	12.248	152	129189	10.000	ug/L	0.00
Standard Area 1 = 103176			Recovery = 125.21%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.228	113	74767	9.916	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.16%			
43) 1,2-Dichloroethane-d4	5.747	65	67661	9.752	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.52%			
60) Toluene-d8	7.718	98	246469	9.935	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.35%			
83) 4-Bromofluorobenzene	11.043	95	89023	9.720	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.673	85	122266	23.950	ug/L	97
3) Chloromethane	1.878	50	156247	29.149	ug/L	99
4) Vinyl chloride	1.935	62	211758	27.901	ug/L	95
5) Bromomethane	2.250	94	192956	28.905	ug/L	97
6) Chloroethane	2.360	64	204128	29.596	ug/L	98
7) Trichlorofluoromethane	2.502	101	285415	24.008	ug/L	97
8) Ethyl ether	2.806	74	138985	28.904	ug/L	74
10) 1,1-Dichloroethene	2.989	96	120331	26.204	ug/L #	58
11) Carbon disulfide	3.021	76	421332	26.902	ug/L	96
12) Freon-113	3.026	101	102502	23.462	ug/L	88
13) Iodomethane	3.126	142	300824	30.343	ug/L	87
14) Acrolein	3.309	56	20022	31.724	ug/L	94
15) Methylene chloride	3.540	84	171615	28.463	ug/L	65
17) Acetone	3.582	43	30660	23.350	ug/L	97
18) trans-1,2-Dichloroethene	3.692	96	158595	28.417	ug/L	70
19) Methyl acetate	3.702	43	72381	25.033	ug/L #	76
20) Methyl tert-butyl ether	3.797	73	461531	30.123	ug/L	92
21) tert-Butyl alcohol	3.886	59	57883	156.695	ug/L #	67
22) Diisopropyl ether	4.153	45	461912	30.387	ug/L #	88
23) 1,1-Dichloroethane	4.274	63	285650	29.420	ug/L	98
24) Halothane	4.326	117	121843	27.328	ug/L	98

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N09.d
Acq On : 29 Aug 2024 7:39 pm
Operator : VOA108:PID
Sample : I8260STD30PPB
Misc : WG1966886,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 03 11:27:10 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.316	53	44657	31.623	ug/L	#	91
26) Ethyl tert-butyl ether	4.499	59	477259	30.150	ug/L	#	87
27) Vinyl acetate	4.505	43	329778	30.044	ug/L	#	88
28) cis-1,2-Dichloroethene	4.788	96	189831	29.546	ug/L	#	63
29) 2,2-Dichloropropane	4.887	77	205386	28.429	ug/L		92
30) Bromochloromethane	4.976	128	109275	29.772	ug/L	#	44
31) Cyclohexane	4.987	56	156222	24.017	ug/L	#	47
32) Chloroform	5.050	83	302800	29.268	ug/L		94
33) Ethyl acetate	5.160	43	110020	29.131	ug/L	#	91
34) Carbon tetrachloride	5.186	117	220091	27.269	ug/L		97
35) Tetrahydrofuran	5.202	42	34003M1	29.348	ug/L		
37) 1,1,1-Trichloroethane	5.249	97	241035	27.934	ug/L	#	90
39) 2-Butanone	5.338	43	45071	28.789	ug/L	#	19
40) 1,1-Dichloropropene	5.370	75	173861	27.640	ug/L		90
41) Benzene	5.616	78	651300	30.019	ug/L	#	88
42) tert-Amyl methyl ether	5.731	73	419448	30.414	ug/L		92
44) 1,2-Dichloroethane	5.821	62	207451	29.489	ug/L		96
47) Methyl cyclohexane	6.203	83	160309	23.739	ug/L	#	64
48) Trichloroethene	6.208	95	172916	29.030	ug/L	#	85
50) Dibromomethane	6.644	93	109664	29.901	ug/L	#	85
51) 1,2-Dichloropropane	6.749	63	163100	30.130	ug/L		96
53) 2-Chloroethyl vinyl ether	7.441	63	95702	32.187	ug/L	#	81
54) Bromodichloromethane	6.822	83	240035	29.603	ug/L	#	98
57) 1,4-Dioxane	7.032	88	23613	576.448	ug/L	#	65
58) cis-1,3-Dichloropropene	7.509	75	265551	30.882	ug/L	#	83
61) Toluene	7.776	92	425325	29.335	ug/L		94
62) 4-Methyl-2-pentanone	8.206	58	42621	31.957	ug/L	#	89
63) Tetrachloroethene	8.222	166	186427	27.437	ug/L		85
65) trans-1,3-Dichloropropene	8.253	75	236338	30.859	ug/L		87
67) Ethyl methacrylate	8.447	69	185428	30.966	ug/L	#	36
68) 1,1,2-Trichloroethane	8.437	83	121226	29.341	ug/L		88
69) Chlorodibromomethane	8.652	129	217992	29.758	ug/L		96
70) 1,3-Dichloropropane	8.762	76	235567	29.601	ug/L		97
71) 1,2-Dibromoethane	8.924	107	150708	29.926	ug/L		97
72) 2-Hexanone	9.213	43	65740	32.225	ug/L		92
73) Chlorobenzene	9.575	112	526776	29.308	ug/L		94
74) Ethylbenzene	9.616	91	787629	29.851	ug/L		94
75) 1,1,1,2-Tetrachloroethane	9.658	131	213666	30.078	ug/L		97
76) p/m Xylene	9.800	106	668009	60.201	ug/L		87
77) o Xylene	10.340	106	674200	61.354	ug/L		82

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N09.d
Acq On : 29 Aug 2024 7:39 pm
Operator : VOA108:PID
Sample : I8260STD30PPB
Misc : WG1966886,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 03 11:27:10 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.408	104	1141020	61.300	ug/L	#	83
80) Bromoform	10.429	173	145211	28.451	ug/L		97
82) Isopropylbenzene	10.723	105	770530	28.496	ug/L		92
84) Bromobenzene	11.158	156	252431	28.239	ug/L		98
85) n-Propylbenzene	11.200	91	874581	27.731	ug/L	#	90
86) 1,4-Dichlorobutane	11.216	55	234847	27.624	ug/L		94
87) 1,1,2,2-Tetrachloroethane	11.284	83	178815	28.041	ug/L		98
88) 4-Ethyltoluene	11.326	105	780070	29.102	ug/L		92
89) 2-Chlorotoluene	11.368	91	574460M6	28.846	ug/L		
90) 1,3,5-Trimethylbenzene	11.425	105	714849	29.330	ug/L	#	86
91) 1,2,3-Trichloropropane	11.420	75	138252	26.980	ug/L		91
92) trans-1,4-Dichloro-2-b...	11.473	53	49125	28.982	ug/L	#	63
93) 4-Chlorotoluene	11.551	91	582086	28.661	ug/L	#	82
94) tert-Butylbenzene	11.766	119	578421	28.622	ug/L		93
97) 1,2,4-Trimethylbenzene	11.845	105	719572	30.045	ug/L		88
98) sec-Butylbenzene	11.955	105	779651	28.022	ug/L		92
99) p-Isopropyltoluene	12.112	119	742764	29.028	ug/L		91
100) 1,3-Dichlorobenzene	12.175	146	486200	28.481	ug/L		96
101) 1,4-Dichlorobenzene	12.264	146	490632	27.991	ug/L		96
102) p-Diethylbenzene	12.484	119	443580	29.363	ug/L		90
103) n-Butylbenzene	12.542	91	568116	27.945	ug/L	#	94
104) 1,2-Dichlorobenzene	12.689	146	470439	28.385	ug/L		95
105) 1,2,4,5-Tetramethylben...	13.276	119	783106	31.189	ug/L		93
106) 1,2-Dibromo-3-chloropr...	13.465	155	34138	30.106	ug/L		93
107) 1,3,5-Trichlorobenzene	13.496	180	369682	28.677	ug/L	#	91
108) Hexachlorobutadiene	14.073	225	132859	26.381	ug/L		96
109) 1,2,4-Trichlorobenzene	14.094	180	335744	29.148	ug/L		98
110) Naphthalene	14.388	128	644189	30.854	ug/L		100
111) 1,2,3-Trichlorobenzene	14.555	180	314032	29.339	ug/L		99

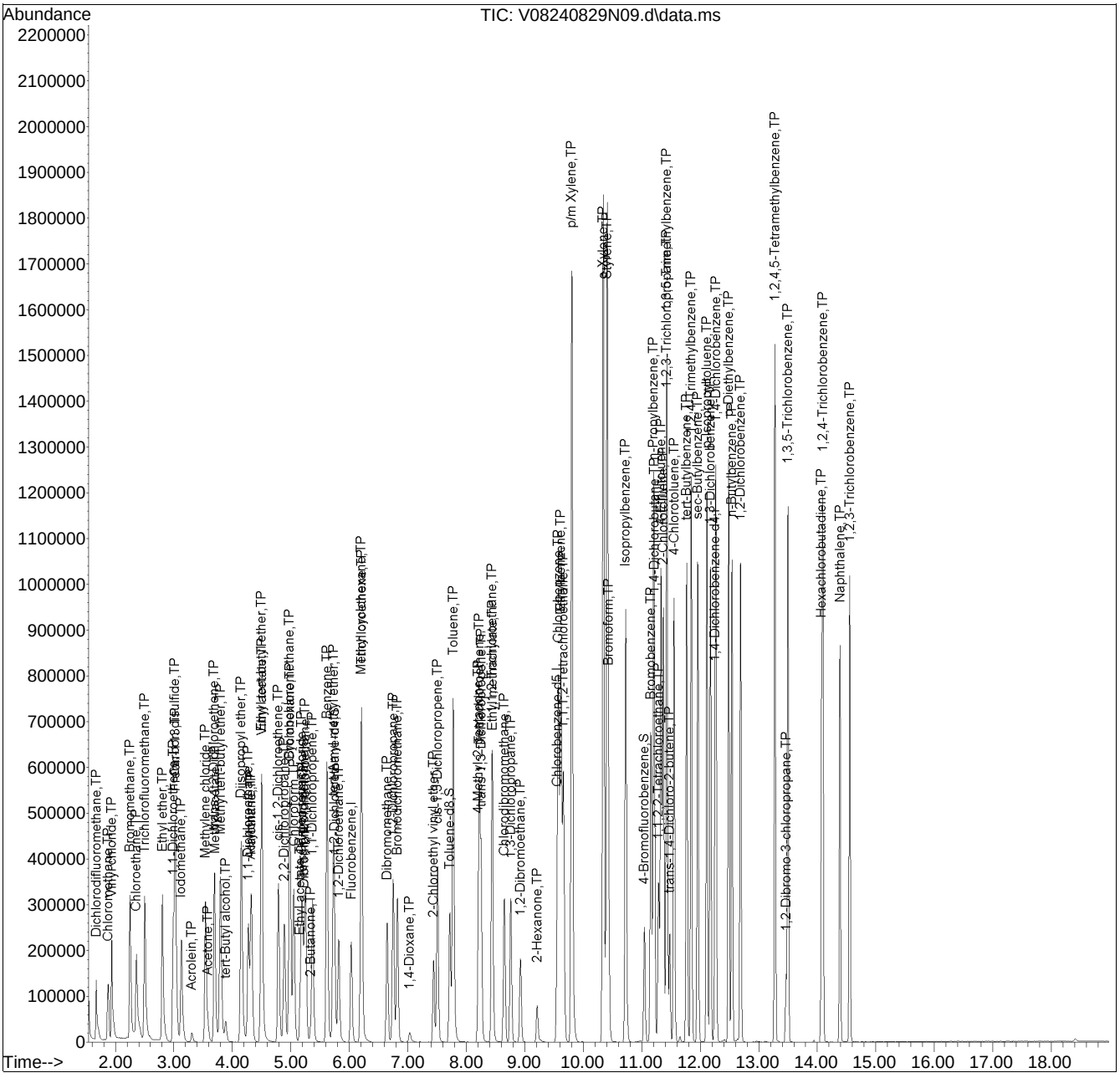
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N09.d
Acq On : 29 Aug 2024 7:39 pm
Operator : VOA108:PID
Sample : I8260STD30PPB
Misc : WG1966886,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 03 11:27:10 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

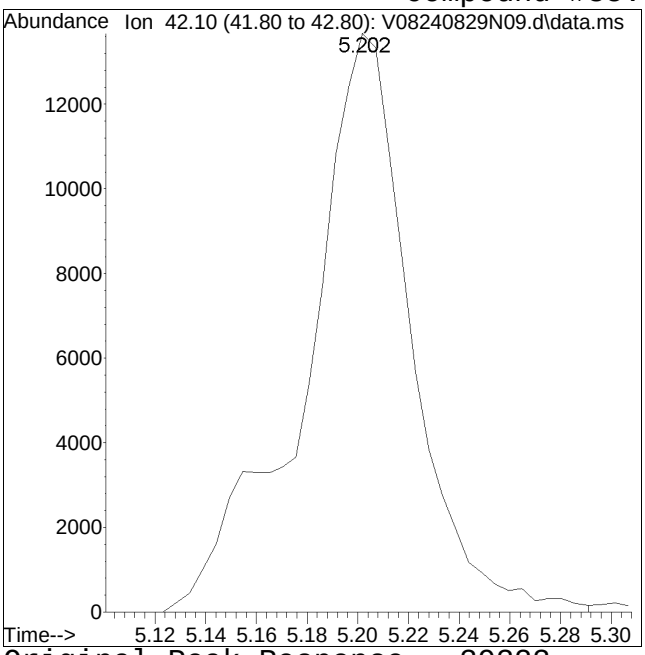
Sub List : 8260-Curve - Megamix plus DioxL\V08240829N08.d•



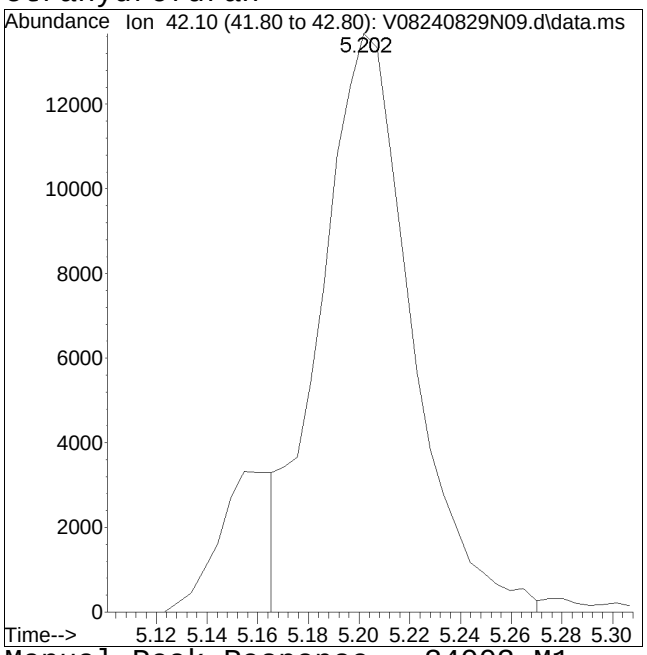
Manual Integration Report

Data Path : K:\VOA108\2024\240829N-ICAQMethod : V108_240829N_8260.m
Data File : V08240829N09.d Operator : VOA108:PID
Date Inj'd : 8/29/2024 7:39 pm Instrument : VOA 108
Sample : I8260STD30PPB Quant Date : 9/3/2024 11:27 am

Compound #35: Tetrahydrofuran



Original Peak Response = 39323



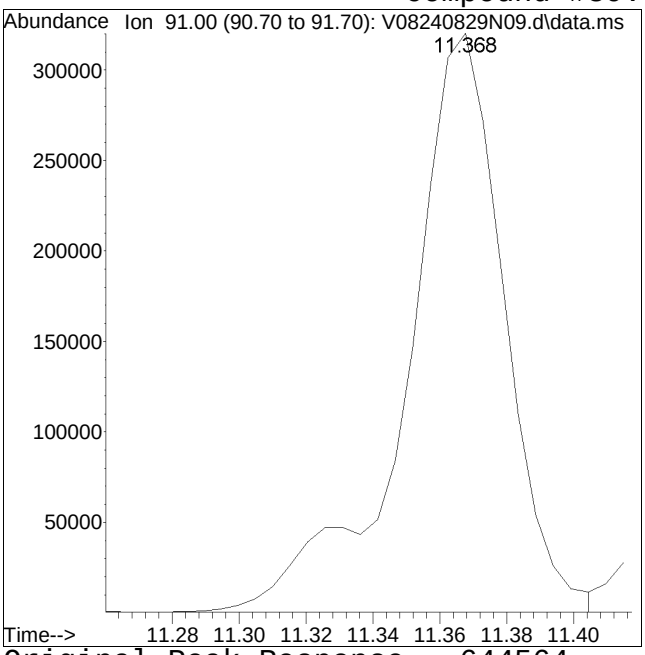
Manual Peak Response = 34003 M1

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

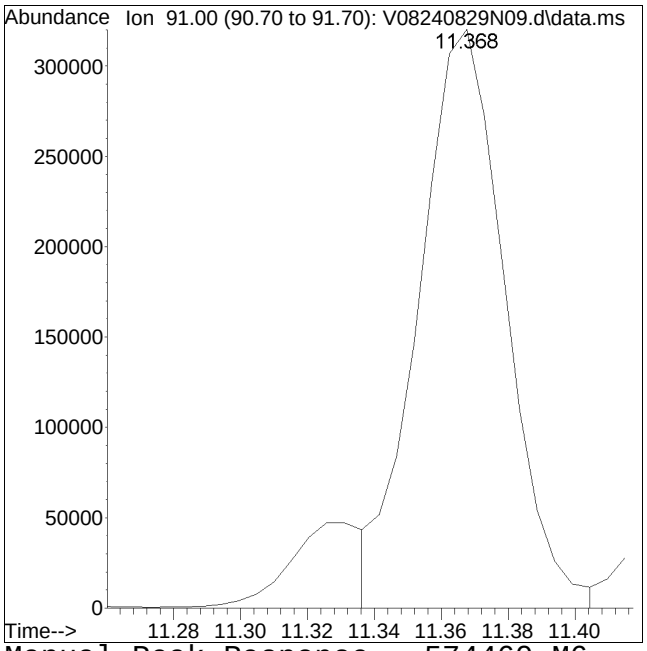
Manual Integration Report

Data Path : K:\VOA108\2024\240829N-ICAQMethod : V108_240829N_8260.m
Data File : V08240829N09.d Operator : VOA108:PID
Date Inj'd : 8/29/2024 7:39 pm Instrument : VOA 108
Sample : I8260STD30PPB Quant Date : 9/3/2024 11:27 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 644564



Manual Peak Response = 574460 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N10.d
Acq On : 29 Aug 2024 8:02 pm
Operator : VOA108:PID
Sample : I8260STD80PPB
Misc : WG1966886,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 03 11:27:17 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.030	96	258697	10.000	ug/L	0.00
Standard Area 1 = 229722			Recovery = 112.61%			
59) Chlorobenzene-d5	9.553	117	219948	10.000	ug/L	0.00
Standard Area 1 = 181751			Recovery = 121.02%			
79) 1,4-Dichlorobenzene-d4	12.254	152	130023	10.000	ug/L	0.00
Standard Area 1 = 103176			Recovery = 126.02%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.228	113	77685	9.868	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.68%			
43) 1,2-Dichloroethane-d4	5.747	65	72079	9.950	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.50%			
60) Toluene-d8	7.718	98	259021	9.950	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.50%			
83) 4-Bromofluorobenzene	11.042	95	91670	9.945	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.45%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.673	85	380662	71.419	ug/L	98
3) Chloromethane	1.878	50	443031	79.160	ug/L	99
4) Vinyl chloride	1.940	62	614795	77.584	ug/L	95
5) Bromomethane	2.250	94	554672	79.584	ug/L	98
6) Chloroethane	2.355	64	589829	81.908	ug/L	97
7) Trichlorofluoromethane	2.501	101	872880	70.322	ug/L	97
8) Ethyl ether	2.806	74	403059	80.284	ug/L	73
10) 1,1-Dichloroethene	2.989	96	364127	75.948	ug/L #	57
11) Carbon disulfide	3.021	76	1242299	75.973	ug/L	97
12) Freon-113	3.026	101	302601	66.340	ug/L	88
13) Iodomethane	3.131	142	899669	86.916	ug/L	86
14) Acrolein	3.309	56	63507	96.376	ug/L	93
15) Methylene chloride	3.540	84	488333	77.573	ug/L #	64
17) Acetone	3.582	43	83672	61.031	ug/L	94
18) trans-1,2-Dichloroethene	3.692	96	463123	79.478	ug/L	70
19) Methyl acetate	3.702	43	215351	71.334	ug/L #	76
20) Methyl tert-butyl ether	3.797	73	1379633	86.243	ug/L	90
21) tert-Butyl alcohol	3.886	59	176055	456.476	ug/L #	69
22) Diisopropyl ether	4.153	45	1363230	85.894	ug/L #	89
23) 1,1-Dichloroethane	4.274	63	813457	80.242	ug/L	98
24) Halothane	4.326	117	363972	78.187	ug/L	99

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N10.d
Acq On : 29 Aug 2024 8:02 pm
Operator : VOA108:PID
Sample : I8260STD80PPB
Misc : WG1966886,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 03 11:27:17 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.316	53	130709	88.651	ug/L	#	92
26) Ethyl tert-butyl ether	4.499	59	1448769	87.658	ug/L	#	87
27) Vinyl acetate	4.504	43	990072	86.391	ug/L	#	88
28) cis-1,2-Dichloroethene	4.787	96	546796	81.512	ug/L	#	64
29) 2,2-Dichloropropane	4.887	77	594738	78.846	ug/L		90
30) Bromochloromethane	4.981	128	311739	81.347	ug/L	#	43
31) Cyclohexane	4.987	56	464749	68.433	ug/L	#	57
32) Chloroform	5.050	83	856356	79.278	ug/L		94
33) Ethyl acetate	5.160	43	326400	82.775	ug/L	#	92
34) Carbon tetrachloride	5.186	117	648139	76.912	ug/L		97
35) Tetrahydrofuran	5.202	42	101988M6	84.310	ug/L		
37) 1,1,1-Trichloroethane	5.249	97	693469	76.974	ug/L	#	90
39) 2-Butanone	5.338	43	133095	81.426	ug/L	#	21
40) 1,1-Dichloropropene	5.375	75	516001	78.569	ug/L		90
41) Benzene	5.616	78	1887044	83.304	ug/L	#	88
42) tert-Amyl methyl ether	5.731	73	1263295	87.734	ug/L		91
44) 1,2-Dichloroethane	5.815	62	579666	78.921	ug/L		95
47) Methyl cyclohexane	6.203	83	453716	64.352	ug/L	#	63
48) Trichloroethene	6.208	95	496304	79.805	ug/L	#	86
50) Dibromomethane	6.643	93	311029	81.225	ug/L	#	85
51) 1,2-Dichloropropane	6.748	63	472057	83.524	ug/L		96
53) 2-Chloroethyl vinyl ether	7.440	63	287682	92.670	ug/L	#	81
54) Bromodichloromethane	6.822	83	697133	82.345	ug/L	#	99
57) 1,4-Dioxane	7.031	88	34358	803.346	ug/L	#	66
58) cis-1,3-Dichloropropene	7.509	75	771752	85.961	ug/L	#	82
61) Toluene	7.776	92	1229572	80.810	ug/L		95
62) 4-Methyl-2-pentanone	8.206	58	137031	97.907	ug/L	#	87
63) Tetrachloroethene	8.222	166	521263	73.102	ug/L		86
65) trans-1,3-Dichloropropene	8.253	75	695500	86.536	ug/L		87
67) Ethyl methacrylate	8.442	69	594513	94.605	ug/L	#	42
68) 1,1,2-Trichloroethane	8.437	83	358646	82.716	ug/L		89
69) Chlorodibromomethane	8.652	129	641252	83.415	ug/L		96
70) 1,3-Dichloropropane	8.762	76	685039	82.026	ug/L		97
71) 1,2-Dibromoethane	8.924	107	434868	82.286	ug/L		97
72) 2-Hexanone	9.207	43	209877	98.035	ug/L		90
73) Chlorobenzene	9.574	112	1522045	80.694	ug/L		94
74) Ethylbenzene	9.616	91	2246847	81.145	ug/L		95
75) 1,1,1,2-Tetrachloroethane	9.658	131	611302	82.000	ug/L		97
76) p/m Xylene	9.805	106	1933895	166.076	ug/L		88
77) o Xylene	10.345	106	1974803	171.248	ug/L		83

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N10.d
Acq On : 29 Aug 2024 8:02 pm
Operator : VOA108:PID
Sample : I8260STD80PPB
Misc : WG1966886,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 03 11:27:17 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.408	104	3441565	176.188	ug/L	#	85
80) Bromoform	10.429	173	433010	84.294	ug/L		96
82) Isopropylbenzene	10.723	105	2142795	78.736	ug/L		93
84) Bromobenzene	11.158	156	718113	79.820	ug/L		97
85) n-Propylbenzene	11.205	91	2470633	77.837	ug/L		91
86) 1,4-Dichlorobutane	11.215	55	707160	82.647	ug/L		94
87) 1,1,2,2-Tetrachloroethane	11.284	83	524606	81.739	ug/L		99
88) 4-Ethyltoluene	11.331	105	2179610	80.792	ug/L		93
89) 2-Chlorotoluene	11.367	91	1603003M6	79.976	ug/L		
90) 1,3,5-Trimethylbenzene	11.430	105	1992351	81.221	ug/L		87
91) 1,2,3-Trichloropropane	11.425	75	415131	80.494	ug/L		92
92) trans-1,4-Dichloro-2-b...	11.478	53	147344	86.369	ug/L	#	61
93) 4-Chlorotoluene	11.551	91	1647712	80.609	ug/L	#	83
94) tert-Butylbenzene	11.766	119	1571208	77.250	ug/L		93
97) 1,2,4-Trimethylbenzene	11.845	105	2023515	83.947	ug/L		89
98) sec-Butylbenzene	11.955	105	2107687	75.268	ug/L		92
99) p-Isopropyltoluene	12.112	119	2046394	79.463	ug/L		91
100) 1,3-Dichlorobenzene	12.175	146	1354132	78.815	ug/L		96
101) 1,4-Dichlorobenzene	12.264	146	1358822	77.024	ug/L		96
102) p-Diethylbenzene	12.484	119	1231668	81.009	ug/L		91
103) n-Butylbenzene	12.542	91	1552809	75.892	ug/L	#	95
104) 1,2-Dichlorobenzene	12.689	146	1313019	78.716	ug/L		95
105) 1,2,4,5-Tetramethylben...	13.276	119	2204776	87.248	ug/L		93
106) 1,2-Dibromo-3-chloropr...	13.465	155	98519	86.325	ug/L		91
107) 1,3,5-Trichlorobenzene	13.496	180	997544	76.886	ug/L	#	91
108) Hexachlorobutadiene	14.073	225	354559	69.952	ug/L		97
109) 1,2,4-Trichlorobenzene	14.094	180	929495	80.178	ug/L		98
110) Naphthalene	14.387	128	1842626	87.689	ug/L		100
111) 1,2,3-Trichlorobenzene	14.555	180	860422	79.870	ug/L		99

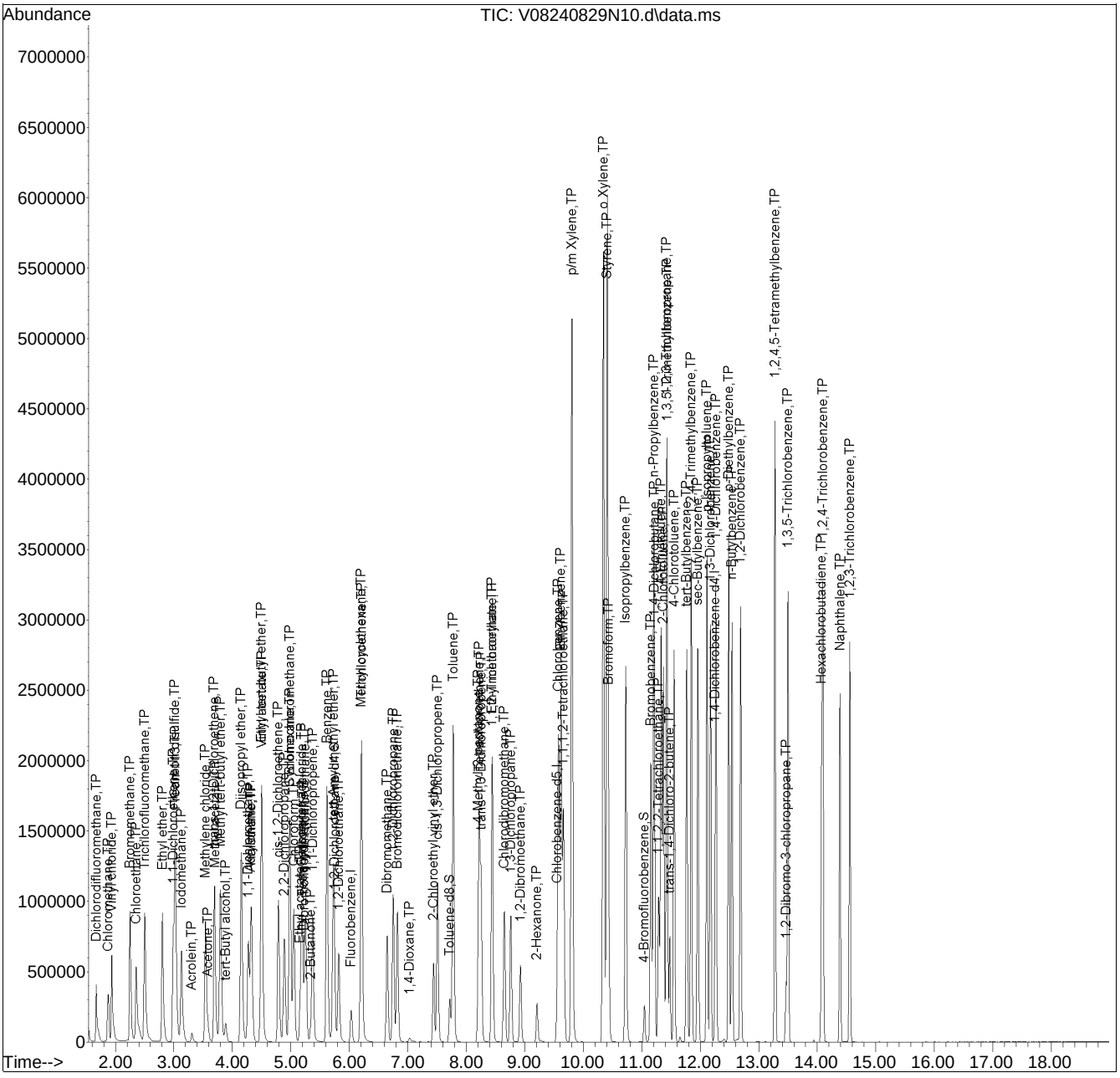
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N10.d
Acq On : 29 Aug 2024 8:02 pm
Operator : VOA108:PID
Sample : I8260STD80PPB
Misc : WG1966886,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 03 11:27:17 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

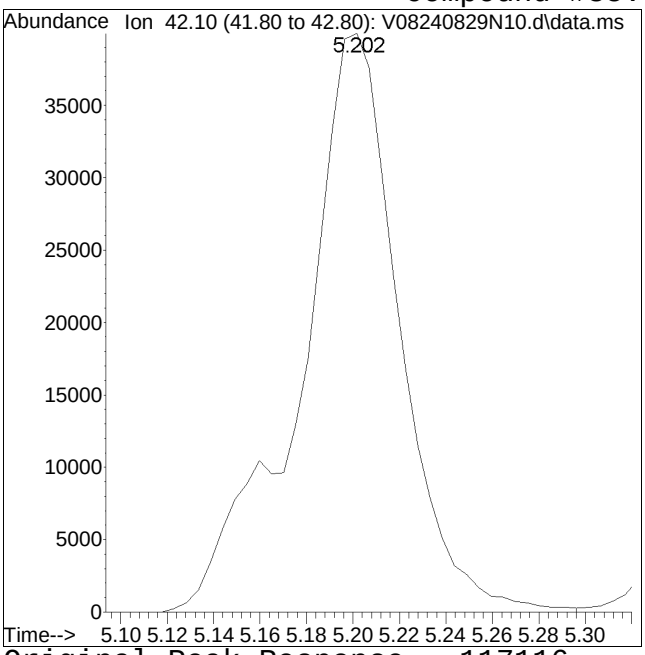
Sub List : 8260-Curve - Megamix plus DioxL\V08240829N08.d•



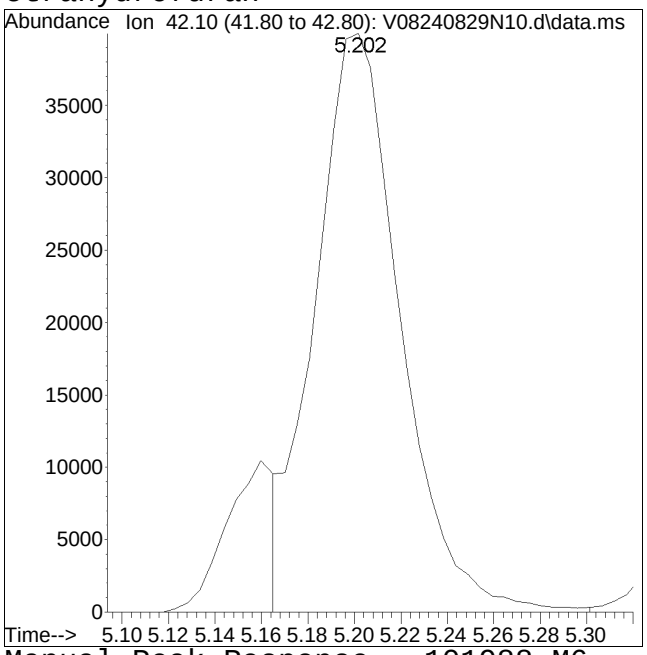
Manual Integration Report

Data Path : K:\VOA108\2024\240829N-ICAQMethod : V108_240829N_8260.m
Data File : V08240829N10.d Operator : VOA108:PID
Date Inj'd : 8/29/2024 8:02 pm Instrument : VOA 108
Sample : I8260STD80PPB Quant Date : 9/3/2024 11:27 am

Compound #35: Tetrahydrofuran



Original Peak Response = 117116



Manual Peak Response = 101988 M6

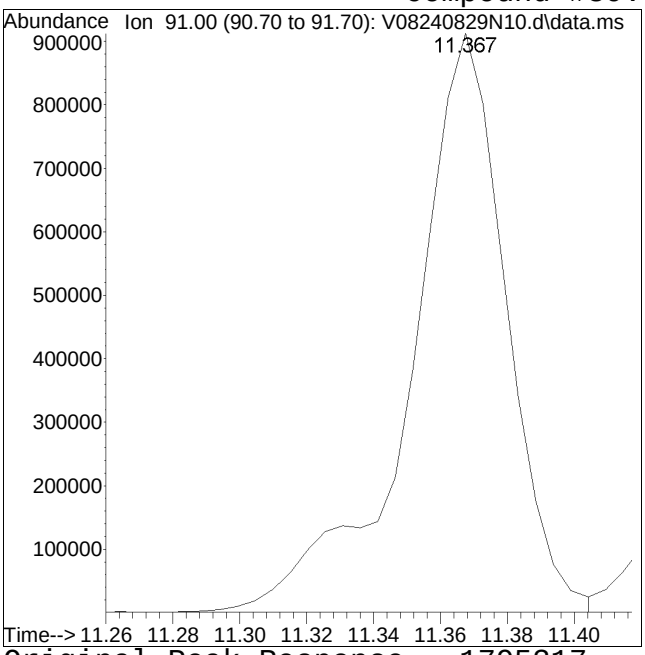
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

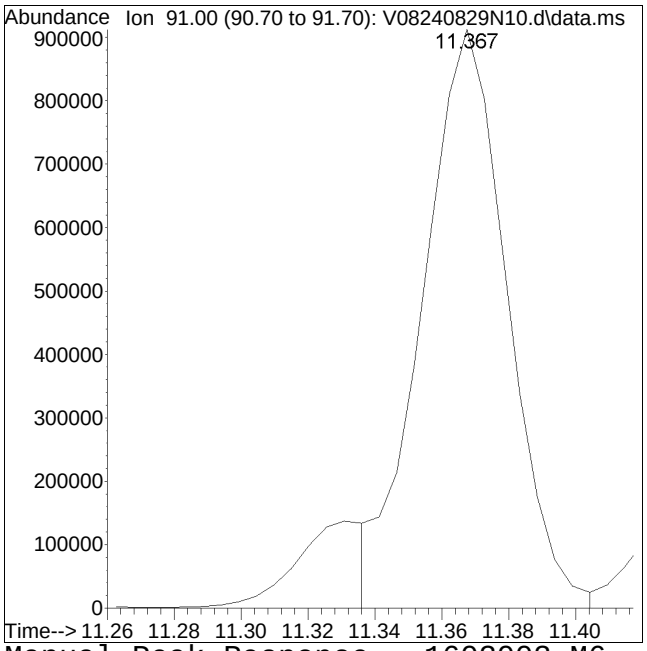
Data Path : K:\VOA108\2024\240829N-ICAQ
Data File : V08240829N10.d
Date Inj'd : 8/29/2024 8:02 pm
Sample : I8260STD80PPB

Method : V108_240829N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 9/3/2024 11:27 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 1795317



Manual Peak Response = 1603003 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N11.d
Acq On : 29 Aug 2024 8:24 pm
Operator : VOA108:PID
Sample : I8260STD120PPB
Misc : WG1966886,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 03 11:27:24 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.030	96	271633	10.000	ug/L	0.00
Standard Area 1 = 229722			Recovery = 118.24%			
59) Chlorobenzene-d5	9.553	117	240597	10.000	ug/L	0.00
Standard Area 1 = 181751			Recovery = 132.38%			
79) 1,4-Dichlorobenzene-d4	12.254	152	144624	10.000	ug/L	0.00
Standard Area 1 = 103176			Recovery = 140.17%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.228	113	80863	9.782	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.82%			
43) 1,2-Dichloroethane-d4	5.747	65	75359	9.908	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.08%			
60) Toluene-d8	7.718	98	273480	9.604	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.04%			
83) 4-Bromofluorobenzene	11.042	95	100475	9.799	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.99%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.673	85	743371	132.827	ug/L	97
3) Chloromethane	1.878	50	717253	122.054	ug/L	99
4) Vinyl chloride	1.940	62	1047179	125.855	ug/L	95
5) Bromomethane	2.250	94	893201	122.052	ug/L	98
6) Chloroethane	2.355	64	957324	126.609	ug/L	97
7) Trichlorofluoromethane	2.502	101	1756633	134.781	ug/L	97
8) Ethyl ether	2.806	74	636559	120.756	ug/L	72
10) 1,1-Dichloroethene	2.989	96	661886	131.479	ug/L #	57
11) Carbon disulfide	3.021	76	2196804	127.948	ug/L	96
12) Freon-113	3.026	101	663114	138.453	ug/L	87
13) Iodomethane	3.131	142	1436890	132.205	ug/L	85
14) Acrolein	3.309	56	102557	148.225	ug/L	91
15) Methylene chloride	3.540	84	763320	115.480	ug/L #	63
17) Acetone	3.582	43	130367	90.563	ug/L	94
18) trans-1,2-Dichloroethene	3.692	96	766180	125.225	ug/L	69
19) Methyl acetate	3.702	43	340372	107.377	ug/L #	76
20) Methyl tert-butyl ether	3.797	73	2158287	128.492	ug/L	90
21) tert-Butyl alcohol	3.886	59	272021	671.709	ug/L #	71
22) Diisopropyl ether	4.153	45	2150329	129.034	ug/L #	90
23) 1,1-Dichloroethane	4.274	63	1291585	121.339	ug/L	98
24) Halothane	4.326	117	633072	129.518	ug/L	99

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N11.d
Acq On : 29 Aug 2024 8:24 pm
Operator : VOA108:PID
Sample : I8260STD120PPB
Misc : WG1966886,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 03 11:27:24 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.316	53	203343	131.346	ug/L	#	91
26) Ethyl tert-butyl ether	4.499	59	2295421	132.271	ug/L	#	88
27) Vinyl acetate	4.504	43	1561606	129.772	ug/L	#	88
28) cis-1,2-Dichloroethene	4.787	96	857353	121.721	ug/L	#	64
29) 2,2-Dichloropropane	4.892	77	1004051	126.770	ug/L		89
30) Bromochloromethane	4.981	128	491030	122.030	ug/L	#	43
31) Cyclohexane	4.987	56	1058048	148.375	ug/L	#	49
32) Chloroform	5.050	83	1342379	118.353	ug/L		94
33) Ethyl acetate	5.160	43	509057	122.948	ug/L	#	91
34) Carbon tetrachloride	5.186	117	1215688	137.391	ug/L		97
35) Tetrahydrofuran	5.202	42	152063M6	119.719	ug/L		
37) 1,1,1-Trichloroethane	5.254	97	1216842	128.635	ug/L	#	89
39) 2-Butanone	5.338	43	206438	120.282	ug/L	#	15
40) 1,1-Dichloropropene	5.375	75	936435	135.796	ug/L		90
41) Benzene	5.616	78	3006289	126.393	ug/L	#	88
42) tert-Amyl methyl ether	5.731	73	2022290	133.757	ug/L		89
44) 1,2-Dichloroethane	5.820	62	896311	116.220	ug/L		95
47) Methyl cyclohexane	6.203	83	1119077	151.164	ug/L	#	64
48) Trichloroethene	6.208	95	845582	129.493	ug/L	#	87
50) Dibromomethane	6.644	93	482331	119.961	ug/L	#	85
51) 1,2-Dichloropropane	6.748	63	742035	125.040	ug/L		96
53) 2-Chloroethyl vinyl ether	7.440	63	458806	140.756	ug/L	#	81
54) Bromodichloromethane	6.822	83	1094501	123.126	ug/L	#	99
57) 1,4-Dioxane	7.031	88	59156	1317.293	ug/L	#	67
58) cis-1,3-Dichloropropene	7.509	75	1207658	128.108	ug/L	#	82
61) Toluene	7.776	92	2025697	121.707	ug/L		95
62) 4-Methyl-2-pentanone	8.206	58	221540	144.702	ug/L	#	87
63) Tetrachloroethene	8.222	166	971156	124.507	ug/L		85
65) trans-1,3-Dichloropropene	8.253	75	1093800	124.414	ug/L	#	81
67) Ethyl methacrylate	8.442	69	961469	139.868	ug/L	#	44
68) 1,1,2-Trichloroethane	8.442	83	563633	118.837	ug/L		89
69) Chlorodibromomethane	8.652	129	1004773	119.485	ug/L		96
70) 1,3-Dichloropropane	8.762	76	1064081	116.477	ug/L		98
71) 1,2-Dibromoethane	8.924	107	674218	116.626	ug/L		96
72) 2-Hexanone	9.207	43	334084	142.660	ug/L		90
73) Chlorobenzene	9.574	112	2452794	118.879	ug/L		95
74) Ethylbenzene	9.616	91	3874062	127.904	ug/L		94
75) 1,1,1,2-Tetrachloroethane	9.664	131	975048	119.568	ug/L		96
76) p/m Xylene	9.805	106	3331178	261.519	ug/L		89
77) o Xylene	10.345	106	3302483	261.802	ug/L		84

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N11.d
Acq On : 29 Aug 2024 8:24 pm
Operator : VOA108:PID
Sample : I8260STD120PPB
Misc : WG1966886,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 03 11:27:24 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.413	104	5701831	266.848	ug/L		86
80) Bromoform	10.434	173	681930	119.349	ug/L		97
82) Isopropylbenzene	10.728	105	3914568	129.317	ug/L		93
84) Bromobenzene	11.158	156	1155971	115.516	ug/L		98
85) n-Propylbenzene	11.205	91	4526493	128.209	ug/L		91
86) 1,4-Dichlorobutane	11.215	55	1133006	119.047	ug/L		94
87) 1,1,2,2-Tetrachloroethane	11.289	83	819935	114.857	ug/L		99
88) 4-Ethyltoluene	11.331	105	3869996	128.968	ug/L		93
89) 2-Chlorotoluene	11.367	91	2636631M6	118.264	ug/L		
90) 1,3,5-Trimethylbenzene	11.430	105	3504627	128.447	ug/L		87
91) 1,2,3-Trichloropropane	11.425	75	667088	116.290	ug/L		93
92) trans-1,4-Dichloro-2-b...	11.478	53	227282	119.776	ug/L	#	56
93) 4-Chlorotoluene	11.551	91	2771542	121.900	ug/L	#	84
94) tert-Butylbenzene	11.766	119	2908236	128.551	ug/L		94
97) 1,2,4-Trimethylbenzene	11.845	105	3471865	129.491	ug/L		89
98) sec-Butylbenzene	11.960	105	4095648	131.494	ug/L		93
99) p-Isopropyltoluene	12.112	119	3821532	133.411	ug/L		92
100) 1,3-Dichlorobenzene	12.175	146	2206682	115.469	ug/L		96
101) 1,4-Dichlorobenzene	12.269	146	2234870	113.893	ug/L		96
102) p-Diethylbenzene	12.484	119	2289711	135.394	ug/L		91
103) n-Butylbenzene	12.542	91	2969492	130.478	ug/L	#	95
104) 1,2-Dichlorobenzene	12.689	146	2128345	114.713	ug/L		95
105) 1,2,4,5-Tetramethylben...	13.276	119	3829894	136.257	ug/L		94
106) 1,2-Dibromo-3-chloropr...	13.465	155	153585	120.989	ug/L		91
107) 1,3,5-Trichlorobenzene	13.501	180	1699377	117.756	ug/L	#	91
108) Hexachlorobutadiene	14.073	225	679021	120.441	ug/L		97
109) 1,2,4-Trichlorobenzene	14.094	180	1553705	120.492	ug/L		99
110) Naphthalene	14.387	128	2998707	128.299	ug/L		100
111) 1,2,3-Trichlorobenzene	14.555	180	1428314	119.200	ug/L		99

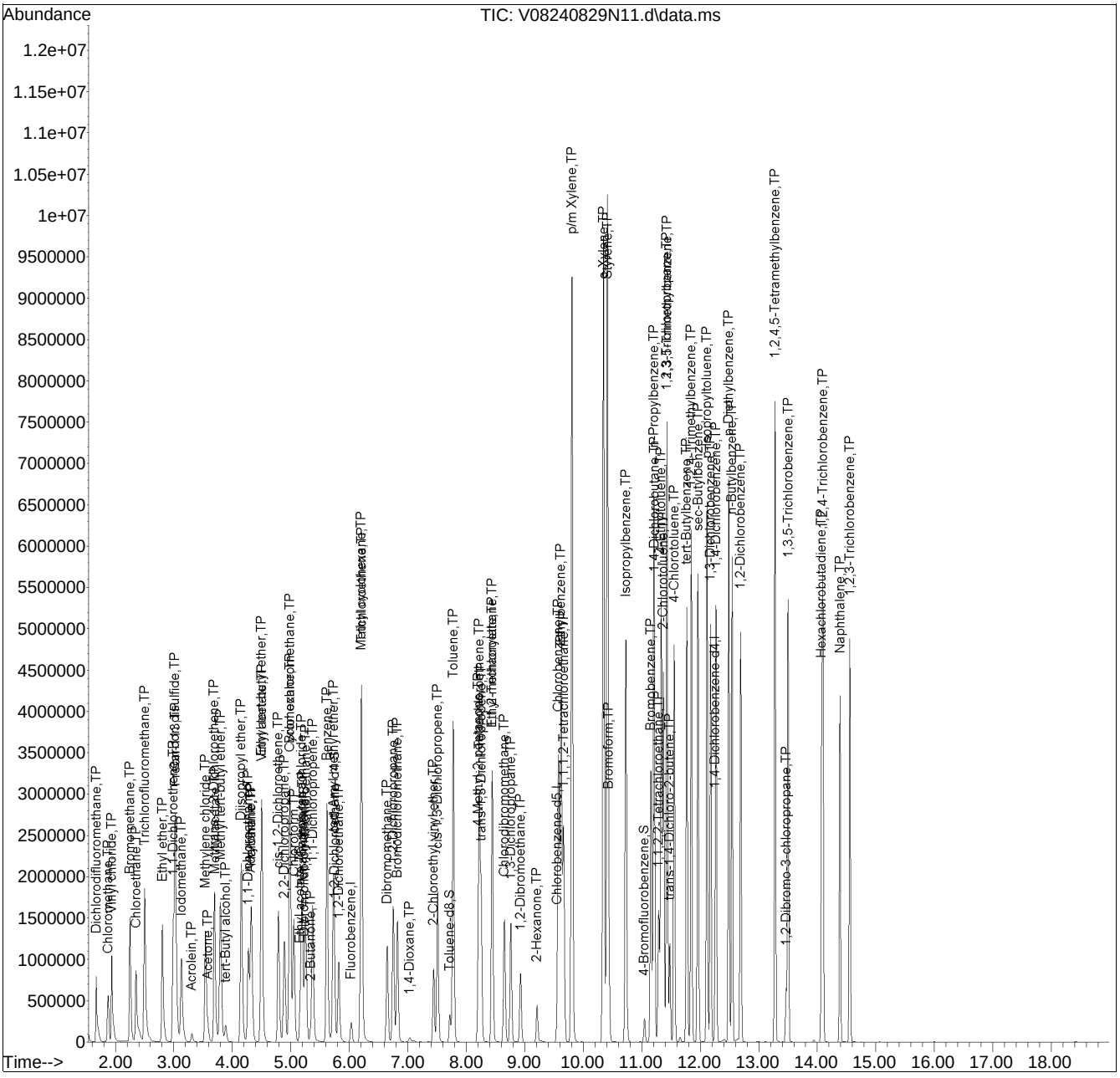
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N11.d
Acq On : 29 Aug 2024 8:24 pm
Operator : VOA108:PID
Sample : I8260STD120PPB
Misc : WG1966886,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 03 11:27:24 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

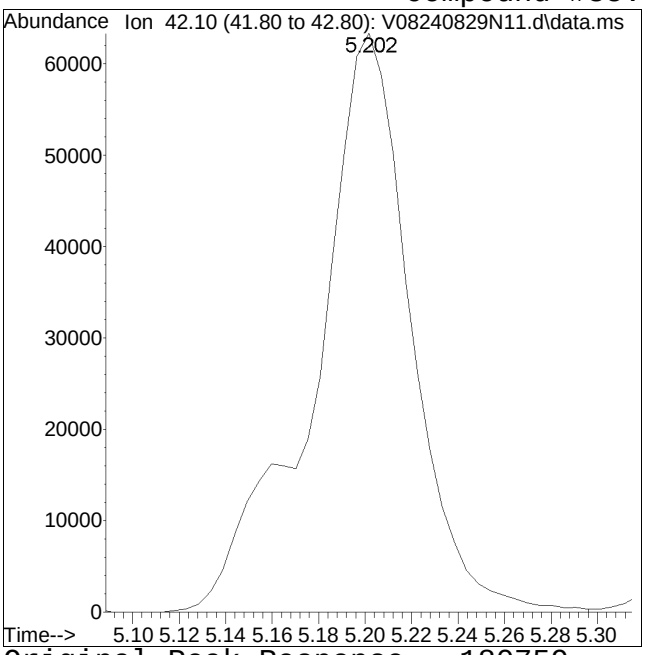
Sub List : 8260-Curve - Megamix plus DioxL\V08240829N08.d•



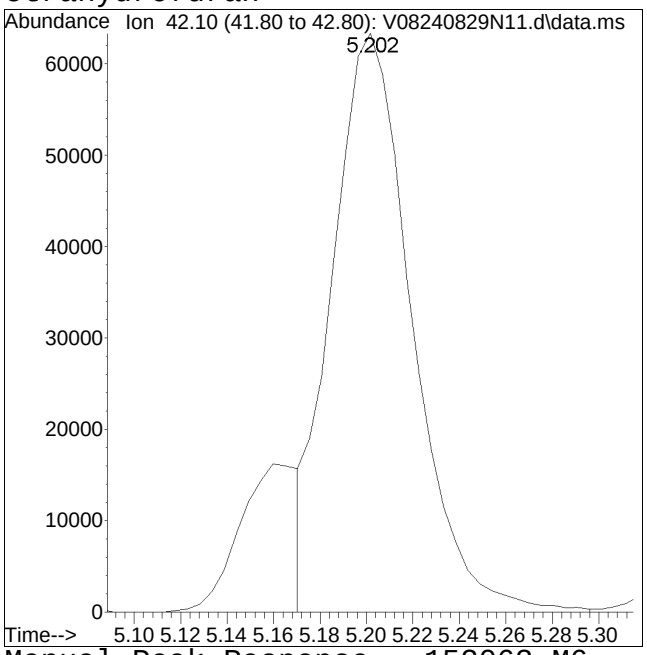
Manual Integration Report

Data Path : K:\VOA108\2024\240829N-ICAQMethod : V108_240829N_8260.m
Data File : V08240829N11.d Operator : VOA108:PID
Date Inj'd : 8/29/2024 8:24 pm Instrument : VOA 108
Sample : I8260STD120PPB Quant Date : 9/3/2024 11:27 am

Compound #35: Tetrahydrofuran



Original Peak Response = 180759



Manual Peak Response = 152063 M6

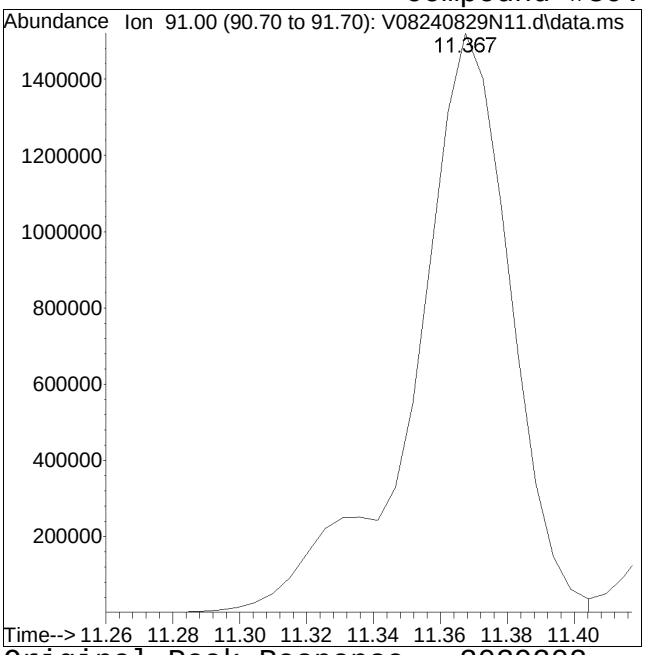
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

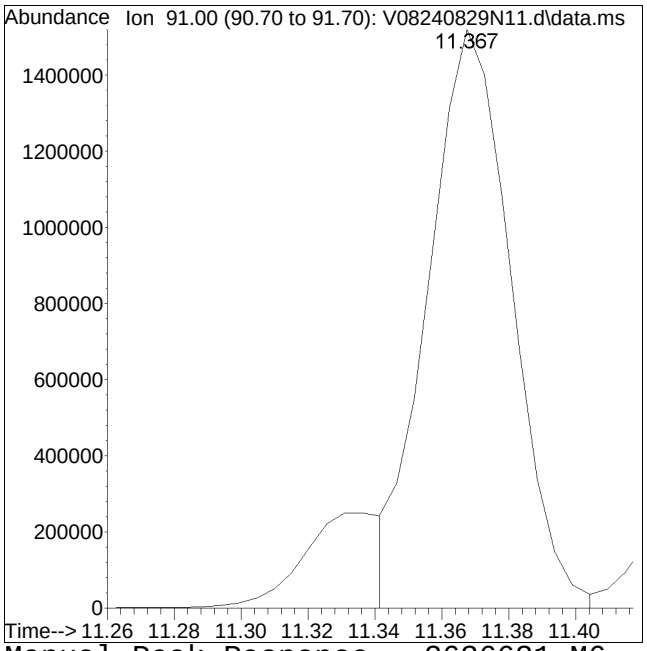
Data Path : K:\VOA108\2024\240829N-ICAQ
Data File : V08240829N11.d
Date Inj'd : 8/29/2024 8:24 pm
Sample : I8260STD120PPB

Method : V108_240829N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 9/3/2024 11:27 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 3039202



Manual Peak Response = 2636631 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N12.d
Acq On : 29 Aug 2024 8:47 pm
Operator : VOA108:PID
Sample : I8260STD200PPB
Misc : WG1966886,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 03 11:27:31 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.030	96	277370	10.000	ug/L	0.00
Standard Area 1 = 229722			Recovery = 120.74%			
59) Chlorobenzene-d5	9.559	117	243218	10.000	ug/L	0.00
Standard Area 1 = 181751			Recovery = 133.82%			
79) 1,4-Dichlorobenzene-d4	12.254	152	142531	10.000	ug/L	0.00
Standard Area 1 = 103176			Recovery = 138.14%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.228	113	83108	9.846	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.46%			
43) 1,2-Dichloroethane-d4	5.747	65	78621	10.123	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.23%			
60) Toluene-d8	7.718	98	275023	9.554	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.54%			
83) 4-Bromofluorobenzene	11.048	95	98670	9.765	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.65%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.673	85	1358700	237.755	ug/L	98
3) Chloromethane	1.878	50	1257113	209.497	ug/L	99
4) Vinyl chloride	1.935	62	1858133	218.700	ug/L	94
5) Bromomethane	2.250	94	1592126	213.057	ug/L	98
6) Chloroethane	2.350	64	1385747M1	179.479	ug/L	
7) Trichlorofluoromethane	2.496	101	3310202	248.727	ug/L	97
8) Ethyl ether	2.806	74	1141502	212.066	ug/L	72
10) 1,1-Dichloroethene	2.989	96	1235040	240.257	ug/L #	57
11) Carbon disulfide	3.015	76	4038498	230.348	ug/L	96
12) Freon-113	3.026	101	1281108	261.953	ug/L	87
13) Iodomethane	3.125	142	2486387	224.036	ug/L	85
14) Acrolein	3.309	56	184070	260.532	ug/L	92
15) Methylene chloride	3.540	84	1354040	200.612	ug/L #	63
17) Acetone	3.587	43	229237	155.951	ug/L	91
18) trans-1,2-Dichloroethene	3.692	96	1382169	221.230	ug/L	69
19) Methyl acetate	3.702	43	610821	188.710	ug/L #	75
20) Methyl tert-butyl ether	3.797	73	3896711	227.190	ug/L	90
21) tert-Butyl alcohol	3.891	59	502908	1216.158	ug/L #	74
22) Diisopropyl ether	4.153	45	3865100	227.135	ug/L #	89
23) 1,1-Dichloroethane	4.274	63	2310846	212.604	ug/L	98
24) Halothane	4.326	117	1149284	230.265	ug/L	99

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N12.d
Acq On : 29 Aug 2024 8:47 pm
Operator : VOA108:PID
Sample : I8260STD200PPB
Misc : WG1966886,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 03 11:27:31 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.316	53	368949	233.387	ug/L	#	91
26) Ethyl tert-butyl ether	4.499	59	4203551	237.214	ug/L	#	87
27) Vinyl acetate	4.504	43	2881489	234.503	ug/L	#	88
28) cis-1,2-Dichloroethene	4.788	96	1529639	212.675	ug/L	#	64
29) 2,2-Dichloropropane	4.887	77	1800253	222.596	ug/L		89
30) Bromochloromethane	4.982	128	861757	209.733	ug/L	#	44
31) Cyclohexane	4.987	56	2099174	288.288	ug/L	#	51
32) Chloroform	5.050	83	2387695	206.161	ug/L		94
33) Ethyl acetate	5.160	43	923742	218.489	ug/L	#	91
34) Carbon tetrachloride	5.186	117	2272966	251.565	ug/L		98
35) Tetrahydrofuran	5.202	42	279186M6	215.257	ug/L		
37) 1,1,1-Trichloroethane	5.254	97	2223336	230.173	ug/L	#	89
39) 2-Butanone	5.338	43	379346	216.456	ug/L	#	14
40) 1,1-Dichloropropene	5.375	75	1749458	248.449	ug/L		90
41) Benzene	5.616	78	5430265	223.582	ug/L	#	88
42) tert-Amyl methyl ether	5.731	73	3717930	240.822	ug/L		88
44) 1,2-Dichloroethane	5.820	62	1577157	200.271	ug/L		96
47) Methyl cyclohexane	6.203	83	2314098	306.121	ug/L	#	63
48) Trichloroethene	6.208	95	1567750	235.121	ug/L		88
50) Dibromomethane	6.649	93	859600	209.371	ug/L	#	85
51) 1,2-Dichloropropane	6.748	63	1331049	219.655	ug/L		96
53) 2-Chloroethyl vinyl ether	7.441	63	828334	248.866	ug/L	#	81
54) Bromodichloromethane	6.822	83	1946672	214.461	ug/L	#	99
57) 1,4-Dioxane	7.032	88	105601	2302.898	ug/L	#	65
58) cis-1,3-Dichloropropene	7.509	75	2175712	226.025	ug/L	#	82
61) Toluene	7.776	92	3707591	220.358	ug/L		94
62) 4-Methyl-2-pentanone	8.206	58	420569	271.741	ug/L	#	85
63) Tetrachloroethene	8.222	166	1825792	231.553	ug/L		86
65) trans-1,3-Dichloropropene	8.253	75	1967646	221.397	ug/L		86
67) Ethyl methacrylate	8.447	69	1798367	258.796	ug/L	#	46
68) 1,1,2-Trichloroethane	8.442	83	1026336	214.062	ug/L		90
69) Chlorodibromomethane	8.652	129	1800005	211.745	ug/L		96
70) 1,3-Dichloropropane	8.762	76	1887539	204.389	ug/L		98
71) 1,2-Dibromoethane	8.924	107	1188317	203.340	ug/L		97
72) 2-Hexanone	9.207	43	613304	259.070	ug/L		90
73) Chlorobenzene	9.580	112	4428544	212.325	ug/L	#	88
74) Ethylbenzene	9.622	91	7181770	234.554	ug/L		94
75) 1,1,1,2-Tetrachloroethane	9.664	131	1749826	212.266	ug/L		96
76) p/m Xylene	9.810	106	6387525	496.057	ug/L		88
77) o Xylene	10.345	106	6260342	490.936	ug/L		82

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N12.d
Acq On : 29 Aug 2024 8:47 pm
Operator : VOA108:PID
Sample : I8260STD200PPB
Misc : WG1966886,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 03 11:27:31 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.413	104	10768971	498.561	ug/L		89
80) Bromoform	10.434	173	1268534	225.275	ug/L		96
82) Isopropylbenzene	10.728	105	7365734	246.899	ug/L		93
84) Bromobenzene	11.158	156	2084317	211.345	ug/L		98
85) n-Propylbenzene	11.205	91	8671585	249.222	ug/L		91
86) 1,4-Dichlorobutane	11.215	55	2163519	230.663	ug/L		94
87) 1,1,2,2-Tetrachloroethane	11.289	83	1480039	210.369	ug/L		98
88) 4-Ethyltoluene	11.331	105	7215287	243.980	ug/L		93
89) 2-Chlorotoluene	11.373	91	4888195M6	222.476	ug/L		
90) 1,3,5-Trimethylbenzene	11.430	105	6667435	247.955	ug/L		87
91) 1,2,3-Trichloropropane	11.425	75	1290813	228.325	ug/L		95
92) trans-1,4-Dichloro-2-b...	11.478	53	417891	223.459	ug/L	#	58
93) 4-Chlorotoluene	11.556	91	5069476	226.245	ug/L	#	85
94) tert-Butylbenzene	11.771	119	5451237	244.497	ug/L		95
97) 1,2,4-Trimethylbenzene	11.845	105	6399949	242.205	ug/L		89
98) sec-Butylbenzene	11.960	105	7780573	253.469	ug/L		93
99) p-Isopropyltoluene	12.117	119	7260537	257.190	ug/L		92
100) 1,3-Dichlorobenzene	12.175	146	3983243	211.491	ug/L		96
101) 1,4-Dichlorobenzene	12.269	146	4014831	207.607	ug/L		96
102) p-Diethylbenzene	12.490	119	4383239	262.993	ug/L		93
103) n-Butylbenzene	12.542	91	5752144	256.458	ug/L	#	95
104) 1,2-Dichlorobenzene	12.689	146	3814314	208.602	ug/L		96
105) 1,2,4,5-Tetramethylben...	13.276	119	7198372	259.858	ug/L		94
106) 1,2-Dibromo-3-chloropr...	13.465	155	278061	222.263	ug/L		91
107) 1,3,5-Trichlorobenzene	13.501	180	3142762	220.972	ug/L	#	91
108) Hexachlorobutadiene	14.073	225	1320819	237.719	ug/L		97
109) 1,2,4-Trichlorobenzene	14.094	180	2910597	229.036	ug/L		98
110) Naphthalene	14.388	128	5518873	239.590	ug/L		100
111) 1,2,3-Trichlorobenzene	14.555	180	2641131	223.652	ug/L		99

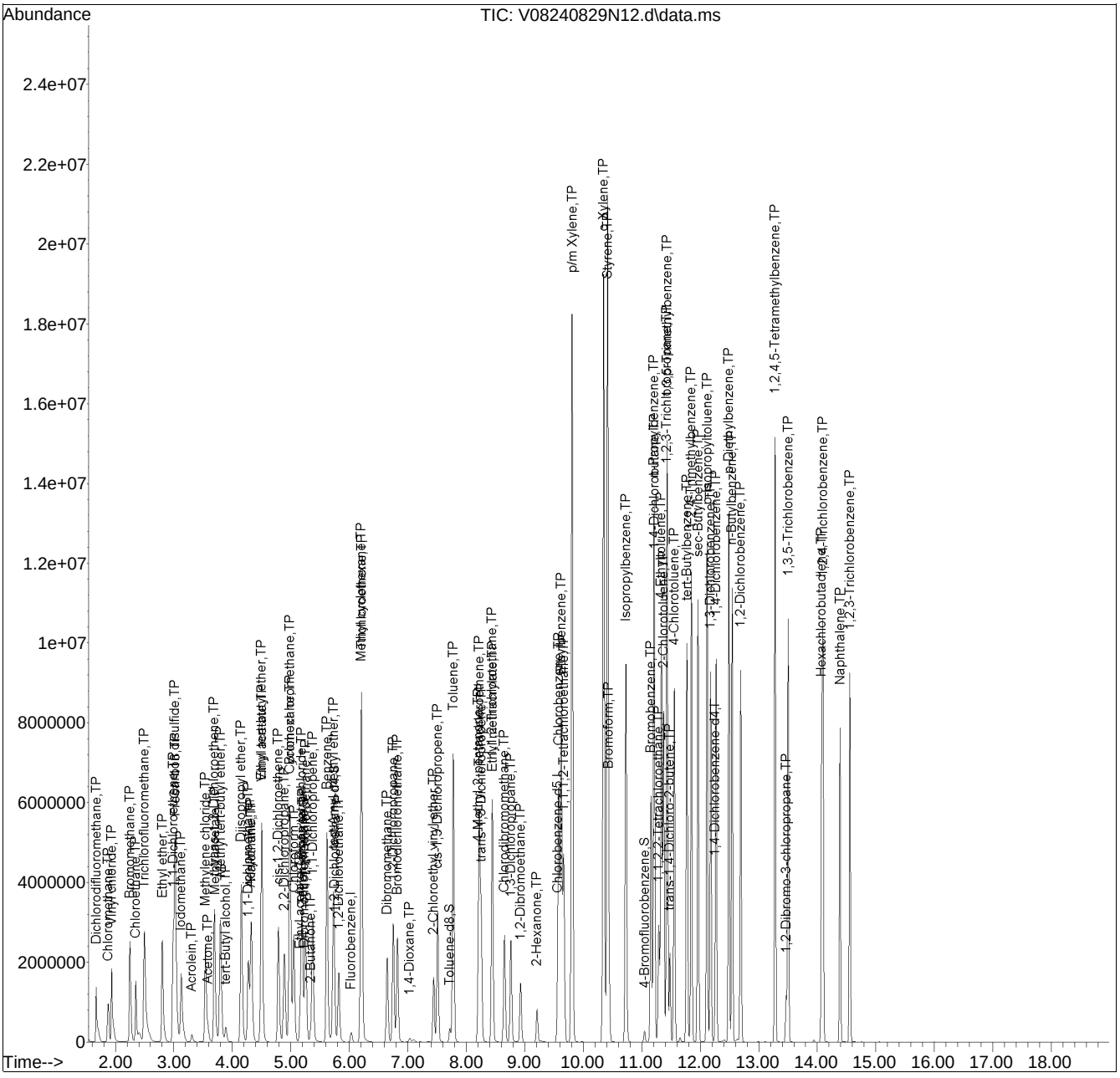
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N12.d
Acq On : 29 Aug 2024 8:47 pm
Operator : VOA108:PID
Sample : I8260STD200PPB
Misc : WG1966886,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 03 11:27:31 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:26:22 2024
Response via : Initial Calibration

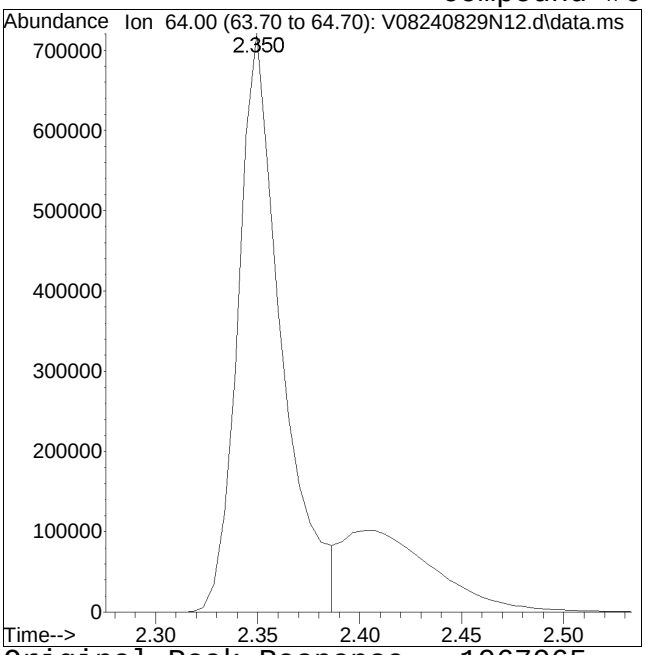
Sub List : 8260-Curve - Megamix plus DioxL\V08240829N08.d•

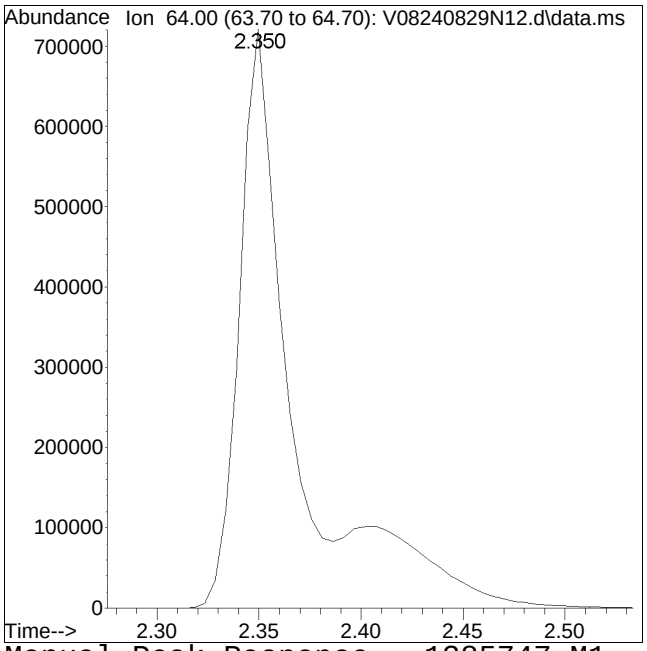


Manual Integration Report

Data Path : K:\VOA108\2024\240829N-ICAQMethod : V108_240829N_8260.m
Data File : V08240829N12.d Operator : VOA108:PID
Date Inj'd : 8/29/2024 8:47 pm Instrument : VOA 108
Sample : I8260STD200PPB Quant Date : 9/3/2024 11:27 am

Compound #6: Chloroethane



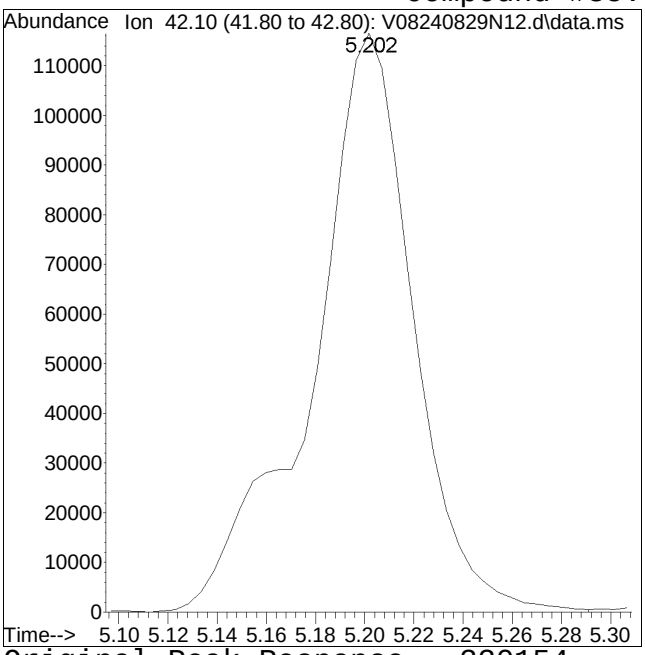


Original Peak Response = 1067065 Manual Peak Response = 1385747 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

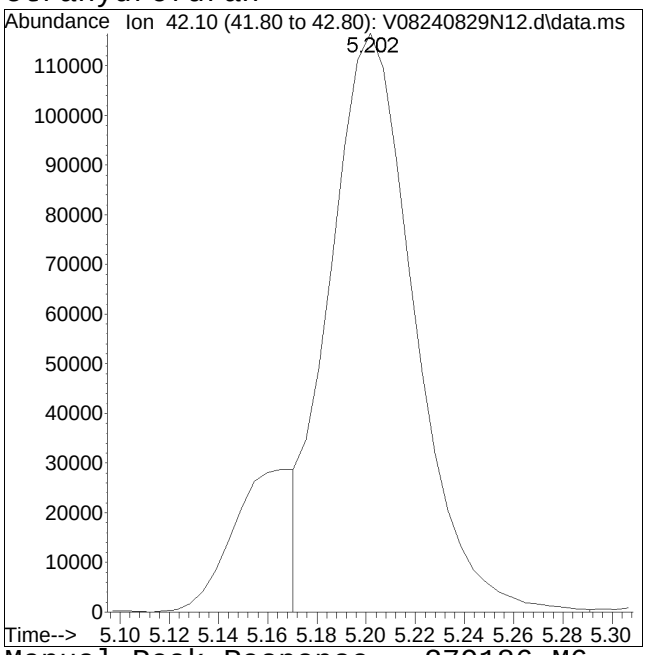
Manual Integration Report

Data Path : K:\VOA108\2024\240829N-ICAQMethod : V108_240829N_8260.m
Data File : V08240829N12.d Operator : VOA108:PID
Date Inj'd : 8/29/2024 8:47 pm Instrument : VOA 108
Sample : I8260STD200PPB Quant Date : 9/3/2024 11:27 am

Compound #35: Tetrahydrofuran



Original Peak Response = 330154



Manual Peak Response = 279186 M6

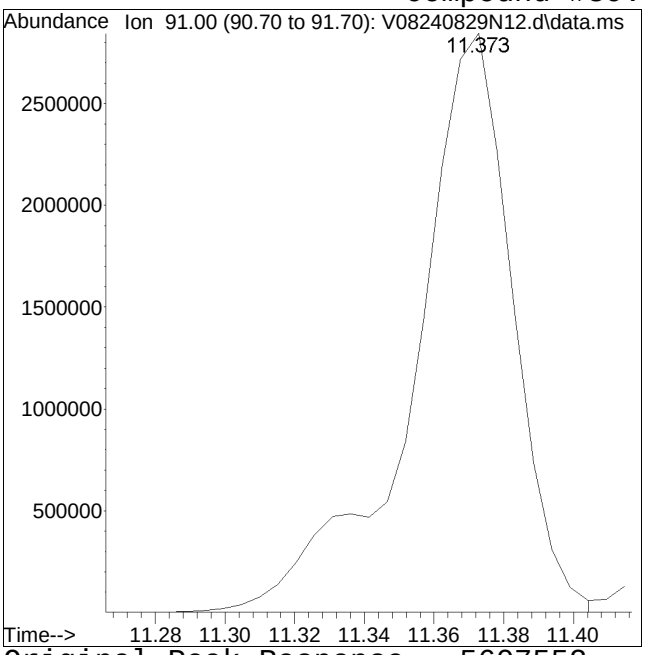
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

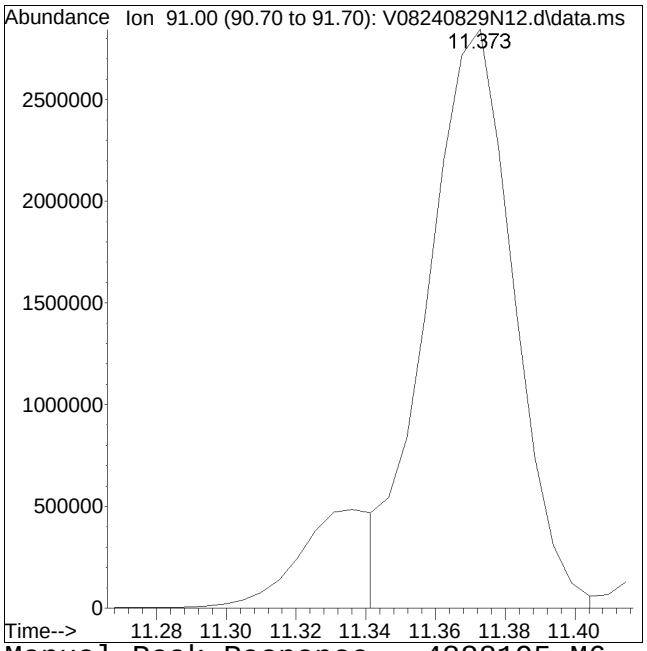
Data Path : K:\VOA108\2024\240829N-ICAQ
Data File : V08240829N12.d
Date Inj'd : 8/29/2024 8:47 pm
Sample : I8260STD200PPB

Method : V108_240829N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 9/3/2024 11:27 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 5607552



Manual Peak Response = 4888195 M6

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

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N17.d
Acq On : 29 Aug 2024 10:39 pm
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1966886,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 03 11:35:58 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	106	0.00
2	TP	Dichlorodifluoromethane	0.206	0.180	12.6	94	0.00
3	TP	Chloromethane	0.216	0.231	-6.9	106	0.00
4	TP	Vinyl chloride	0.306	0.313	-2.3	104	0.00
5	TP	Bromomethane	0.269	0.311	-15.6	118	0.00
6	TP	Chloroethane	0.278	0.298	-7.2	107	0.00
7	TP	Trichlorofluoromethane	0.480	0.588	-22.5#	135	0.00
8	TP	Ethyl ether	0.194	0.204	-5.2	107	0.00
10	TP	1,1-Dichloroethene	0.185	0.196	-5.9	114	0.00
11	TP	Carbon disulfide	0.632	0.571	9.7	97	0.00
12	TP	Freon-113	0.182	0.222	-22.0#	137	0.00
13	TP	Iodomethane	0.400	0.312	22.0#	80	0.00
14	TP	Acrolein	0.029	0.023	20.7#	87	0.00
15	TP	Methylene chloride	0.243	0.234	3.7	97	0.00
17	TP	Acetone	0.044	0.043	2.3	101	0.00
18	TP	trans-1,2-Dichloroethene	0.225	0.230	-2.2	107	0.00
19	TP	Methyl acetate	0.106	0.105	0.9	103	0.00
20	TP	Methyl tert-butyl ether	0.618	0.548	11.3	92	0.00
21	TP	tert-Butyl alcohol	0.016	0.017	-6.3	112	0.00
22	TP	Diisopropyl ether	0.614	0.603	1.8	100	0.00
23	TP	1,1-Dichloroethane	0.392	0.396	-1.0	100	0.00
24	TP	Halothane	0.180	0.202	-12.2	117	0.00
25	TP	Acrylonitrile	0.057	0.057	0.0	101	0.00
26	TP	Ethyl tert-butyl ether	0.639	0.610	4.5	100	0.00
27	TP	Vinyl acetate	0.443	0.387	12.6	90	0.00
28	TP	cis-1,2-Dichloroethene	0.259	0.254	1.9	99	0.00
29	TP	2,2-Dichloropropane	0.292	0.280	4.1	100	0.00
30	TP	Bromochloromethane	0.148	0.144	2.7	98	0.00
31	TP	Cyclohexane	* 10.000	15.551	-55.5#	138	0.00
32	TP	Chloroform	0.418	0.420	-0.5	99	0.00
33	TP	Ethyl acetate	0.152	0.154	-1.3	109	0.00
34	TP	Carbon tetrachloride	0.326	0.368	-12.9	117	0.00
35	TP	Tetrahydrofuran	0.047	0.045	4.3	104	0.00
36	S	Dibromofluoromethane	0.304	0.299	1.6	103	0.00
37	TP	1,1,1-Trichloroethane	0.348	0.379	-8.9	113	0.00
39	TP	2-Butanone	0.063	0.064	-1.6	101	0.00
40	TP	1,1-Dichloropropene	0.254	0.283	-11.4	119	0.00
41	TP	Benzene	0.876	0.870	0.7	99	0.00
42	TP	tert-Amyl methyl ether	0.557	0.542	2.7	102	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N17.d
Acq On : 29 Aug 2024 10:39 pm
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1966886,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 03 11:35:58 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	S	1,2-Dichloroethane-d4	0.280	0.275	1.8	103	0.00
44	TP	1,2-Dichloroethane	0.284	0.280	1.4	97	0.00
47	TP	Methyl cyclohexane	* 10.000	16.837	-68.4#	144	0.00
48	TP	Trichloroethene	0.240	0.253	-5.4	108	0.00
50	TP	Dibromomethane	0.148	0.149	-0.7	100	0.00
51	TP	1,2-Dichloropropane	0.218	0.220	-0.9	101	0.00
53	TP	2-Chloroethyl vinyl ether	0.127	0.104	18.1	92	0.00
54	TP	Bromodichloromethane	0.327	0.312	4.6	95	0.00
57	TP	1,4-Dioxane	0.00165	0.00177#	-7.3	109	0.00
58	TP	cis-1,3-Dichloropropene	0.347	0.343	1.2	99	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	109	0.00
60	S	Toluene-d8	1.184	1.208	-2.0	107	0.00
61	TP	Toluene	0.692	0.711	-2.7	103	0.00
62	TP	4-Methyl-2-pentanone	0.071	0.066	7.0	110	0.00
63	TP	Tetrachloroethene	0.324	0.369	-13.9	118	0.00
65	TP	trans-1,3-Dichloropropene	0.365	0.370	-1.4	101	0.00
67	TP	Ethyl methacrylate	0.304	0.279	8.2	106	0.00
68	TP	1,1,2-Trichloroethane	0.197	0.199#	-1.0	100	0.00
69	TP	Chlorodibromomethane	0.350	0.349	0.3	100	0.00
70	TP	1,3-Dichloropropane	0.380	0.386	-1.6	101	0.00
71	TP	1,2-Dibromoethane	0.240	0.239	0.4	97	0.00
72	TP	2-Hexanone	0.106	0.095	10.4	105	0.00
73	TP	Chlorobenzene	0.858	0.879	-2.4	103	0.00
74	TP	Ethylbenzene	1.259	1.307	-3.8	107	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.339	0.348	-2.7	100	0.00
76	TP	p/m Xylene	0.529	0.549	-3.8	105	0.00
77	TP	o Xylene	0.524	0.538	-2.7	103	0.00
78	TP	Styrene	* 20.000	19.030	4.8	102	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
80	TP	Bromoform	0.395	0.418	-5.8	104	0.00
82	TP	Isopropylbenzene	2.093	2.406	-15.0	113	0.00
83	S	4-Bromofluorobenzene	0.709	0.743	-4.8	109	0.00
84	TP	Bromobenzene	0.692	0.742	-7.2	101	0.00
85	TP	n-Propylbenzene	2.441	2.709	-11.0	112	0.00
86	TP	1,4-Dichlorobutane	0.658	0.681	-3.5	101	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.494	0.514	-4.0	98	0.00
88	TP	4-Ethyltoluene	2.075	2.496	-20.3#	117	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N17.d
Acq On : 29 Aug 2024 10:39 pm
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1966886,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 03 11:35:58 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
89 TP	2-Chlorotoluene	1.542	1.736	-12.6	105	0.00
90 TP	1,3,5-Trimethylbenzene	1.887	2.106	-11.6	107	0.00
91 TP	1,2,3-Trichloropropane	0.397	0.400	-0.8	99	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.131	0.121	7.6	86	0.00
93 TP	4-Chlorotoluene	1.572	1.706	-8.5	101	0.00
94 TP	tert-Butylbenzene	1.564	1.880	-20.2#	118	0.00
97 TP	1,2,4-Trimethylbenzene	1.854	2.111	-13.9	107	0.00
98 TP	sec-Butylbenzene	2.154	2.650	-23.0#	122	0.00
99 TP	p-Isopropyltoluene	1.981	2.356	-18.9	117	0.00
100 TP	1,3-Dichlorobenzene	1.321	1.451	-9.8	102	0.00
101 TP	1,4-Dichlorobenzene	1.357	1.448	-6.7	101	0.00
102 TP	p-Diethylbenzene	1.232	1.348	-9.4	115	0.00
103 TP	n-Butylbenzene	1.574	1.945	-23.6#	124	0.00
104 TP	1,2-Dichlorobenzene	1.283	1.384	-7.9	101	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.065	2.180	-5.6	108	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.088	0.097	-10.2	106	0.00
107 TP	1,3,5-Trichlorobenzene	0.998	1.085	-8.7	105	0.00
108 TP	Hexachlorobutadiene	0.390	0.460	-17.9	125	0.00
109 TP	1,2,4-Trichlorobenzene	0.892	0.970	-8.7	105	0.00
110 TP	Naphthalene	1.616	1.802	-11.5	107	0.00
111 TP	1,2,3-Trichlorobenzene	0.829	0.919	-10.9	104	0.00

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N17.d
Acq On : 29 Aug 2024 10:39 pm
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1966886,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 03 11:35:58 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.035	96	242357	10.000	ug/L	0.00
Standard Area 1 = 229722			Recovery = 105.50%			
59) Chlorobenzene-d5	9.559	117	198259	10.000	ug/L	0.00
Standard Area 1 = 181751			Recovery = 109.08%			
79) 1,4-Dichlorobenzene-d4	12.254	152	110187	10.000	ug/L	0.00
Standard Area 1 = 103176			Recovery = 106.80%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.228	113	72485	9.828	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.28%			
43) 1,2-Dichloroethane-d4	5.752	65	66751	9.836	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.36%			
60) Toluene-d8	7.718	98	239503	10.206	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.06%			
83) 4-Bromofluorobenzene	11.042	95	81892	10.483	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.83%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.673	85	43665	8.745	ug/L	97
3) Chloromethane	1.878	50	56094	10.699	ug/L	99
4) Vinyl chloride	1.940	62	75819	10.213	ug/L	94
5) Bromomethane	2.250	94	75256	11.526	ug/L	99
6) Chloroethane	2.360	64	72273	10.713	ug/L	96
7) Trichlorofluoromethane	2.501	101	142523	12.256	ug/L	97
8) Ethyl ether	2.806	74	49487	10.522	ug/L	75
10) 1,1-Dichloroethene	2.989	96	47432	10.560	ug/L #	57
11) Carbon disulfide	3.021	76	138333	9.030	ug/L	96
12) Freon-113	3.031	101	53731	12.214	ug/L	85
13) Iodomethane	3.131	142	75696	7.806	ug/L	85
14) Acrolein	3.309	56	5570	7.942	ug/L	99
15) Methylene chloride	3.540	84	56751	9.623	ug/L #	65
17) Acetone	3.587	43	10416	9.878	ug/L	97
18) trans-1,2-Dichloroethene	3.697	96	55711	10.205	ug/L	69
19) Methyl acetate	3.702	43	25406	9.863	ug/L #	78
20) Methyl tert-butyl ether	3.802	73	132797	8.861	ug/L	93
21) tert-Butyl alcohol	3.891	59	20229M6	52.050	ug/L	
22) Diisopropyl ether	4.153	45	146259	9.837	ug/L #	87
23) 1,1-Dichloroethane	4.274	63	95896	10.097	ug/L	98
24) Halothane	4.326	117	49047	11.246	ug/L	99

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N17.d
Acq On : 29 Aug 2024 10:39 pm
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1966886,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 03 11:35:58 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.316	53	13820	10.005	ug/L	#	87
26) Ethyl tert-butyl ether	4.499	59	147728	9.541	ug/L	#	90
27) Vinyl acetate	4.510	43	93889	8.745	ug/L	#	89
28) cis-1,2-Dichloroethene	4.787	96	61678	9.814	ug/L	#	64
29) 2,2-Dichloropropane	4.892	77	67959	9.617	ug/L		91
30) Bromochloromethane	4.981	128	34861	9.710	ug/L	#	41
31) Cyclohexane	4.987	56	75360	15.551	ug/L	#	49
32) Chloroform	5.050	83	101718	10.051	ug/L		94
33) Ethyl acetate	5.165	43	37358	10.113	ug/L	#	90
34) Carbon tetrachloride	5.186	117	89223	11.302	ug/L		98
35) Tetrahydrofuran	5.202	42	10893	9.612	ug/L	#	56
37) 1,1,1-Trichloroethane	5.254	97	91932	10.892	ug/L	#	90
39) 2-Butanone	5.343	43	15629	10.206	ug/L	#	18
40) 1,1-Dichloropropene	5.375	75	68668	11.161	ug/L	#	89
41) Benzene	5.616	78	210783	9.932	ug/L	#	88
42) tert-Amyl methyl ether	5.731	73	131333	9.736	ug/L		93
44) 1,2-Dichloroethane	5.820	62	67741	9.845	ug/L		94
47) Methyl cyclohexane	6.203	83	77918	16.837	ug/L	#	65
48) Trichloroethene	6.208	95	61335	10.528	ug/L	#	85
50) Dibromomethane	6.649	93	36056	10.051	ug/L	#	85
51) 1,2-Dichloropropane	6.754	63	53331	10.072	ug/L		97
53) 2-Chloroethyl vinyl ether	7.440	63	25253	8.184	ug/L	#	82
54) Bromodichloromethane	6.822	83	75664	9.540	ug/L	#	99
57) 1,4-Dioxane	7.037	88	21396	534.002	ug/L	#	67
58) cis-1,3-Dichloropropene	7.509	75	83020	9.871	ug/L	#	83
61) Toluene	7.776	92	140879	10.272	ug/L		96
62) 4-Methyl-2-pentanone	8.206	58	13127	9.378	ug/L	#	90
63) Tetrachloroethene	8.222	166	73196	11.388	ug/L	#	85
65) trans-1,3-Dichloropropene	8.253	75	73351	10.125	ug/L		87
67) Ethyl methacrylate	8.447	69	55275	9.177	ug/L	#	31
68) 1,1,2-Trichloroethane	8.442	83	39371	10.074	ug/L		89
69) Chlorodibromomethane	8.652	129	69136	9.977	ug/L		96
70) 1,3-Dichloropropane	8.762	76	76459	10.157	ug/L		97
71) 1,2-Dibromoethane	8.924	107	47480	9.967	ug/L		96
72) 2-Hexanone	9.213	43	18883	8.991	ug/L		94
73) Chlorobenzene	9.580	112	174224	10.247	ug/L		95
74) Ethylbenzene	9.616	91	259134	10.382	ug/L		94
75) 1,1,1,2-Tetrachloroethane	9.663	131	68955	10.262	ug/L		96
76) p/m Xylene	9.805	106	217576	20.729	ug/L		86
77) o Xylene	10.345	106	213159	20.507	ug/L		82

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N17.d
Acq On : 29 Aug 2024 10:39 pm
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1966886,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 03 11:35:58 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240829N-ICAL\V08240829N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.408	104	357413	19.030	ug/L	#	83
80) Bromoform	10.429	173	46045	10.577	ug/L		95
82) Isopropylbenzene	10.723	105	265145	11.496	ug/L		92
84) Bromobenzene	11.152	156	81731	10.720	ug/L		97
85) n-Propylbenzene	11.205	91	298543	11.099	ug/L	#	90
86) 1,4-Dichlorobutane	11.215	55	75019	10.346	ug/L		94
87) 1,1,2,2-Tetrachloroethane	11.284	83	56645	10.415	ug/L		99
88) 4-Ethyltoluene	11.331	105	274979	12.028	ug/L		92
89) 2-Chlorotoluene	11.367	91	191273M6	11.261	ug/L		
90) 1,3,5-Trimethylbenzene	11.425	105	232046	11.163	ug/L	#	85
91) 1,2,3-Trichloropropane	11.420	75	44080	10.086	ug/L		90
92) trans-1,4-Dichloro-2-b...	11.478	53	13377	9.253	ug/L	#	66
93) 4-Chlorotoluene	11.551	91	187975	10.852	ug/L	#	81
94) tert-Butylbenzene	11.766	119	207178	12.020	ug/L		92
97) 1,2,4-Trimethylbenzene	11.845	105	232619	11.388	ug/L		88
98) sec-Butylbenzene	11.955	105	292043	12.307	ug/L		91
99) p-Isopropyltoluene	12.112	119	259608	11.895	ug/L		91
100) 1,3-Dichlorobenzene	12.175	146	159841	10.978	ug/L		96
101) 1,4-Dichlorobenzene	12.264	146	159577	10.674	ug/L		96
102) p-Diethylbenzene	12.484	119	148504	10.940	ug/L		89
103) n-Butylbenzene	12.542	91	214290	12.359	ug/L	#	95
104) 1,2-Dichlorobenzene	12.689	146	152444	10.784	ug/L		95
105) 1,2,4,5-Tetramethylben...	13.276	119	240251	10.560	ug/L		92
106) 1,2-Dibromo-3-chloropr...	13.465	155	10701	11.064	ug/L		94
107) 1,3,5-Trichlorobenzene	13.496	180	119597	10.877	ug/L	#	90
108) Hexachlorobutadiene	14.073	225	50724	11.809	ug/L		97
109) 1,2,4-Trichlorobenzene	14.094	180	106912	10.882	ug/L		98
110) Naphthalene	14.387	128	198548	11.150	ug/L		100
111) 1,2,3-Trichlorobenzene	14.555	180	101306	11.097	ug/L		99

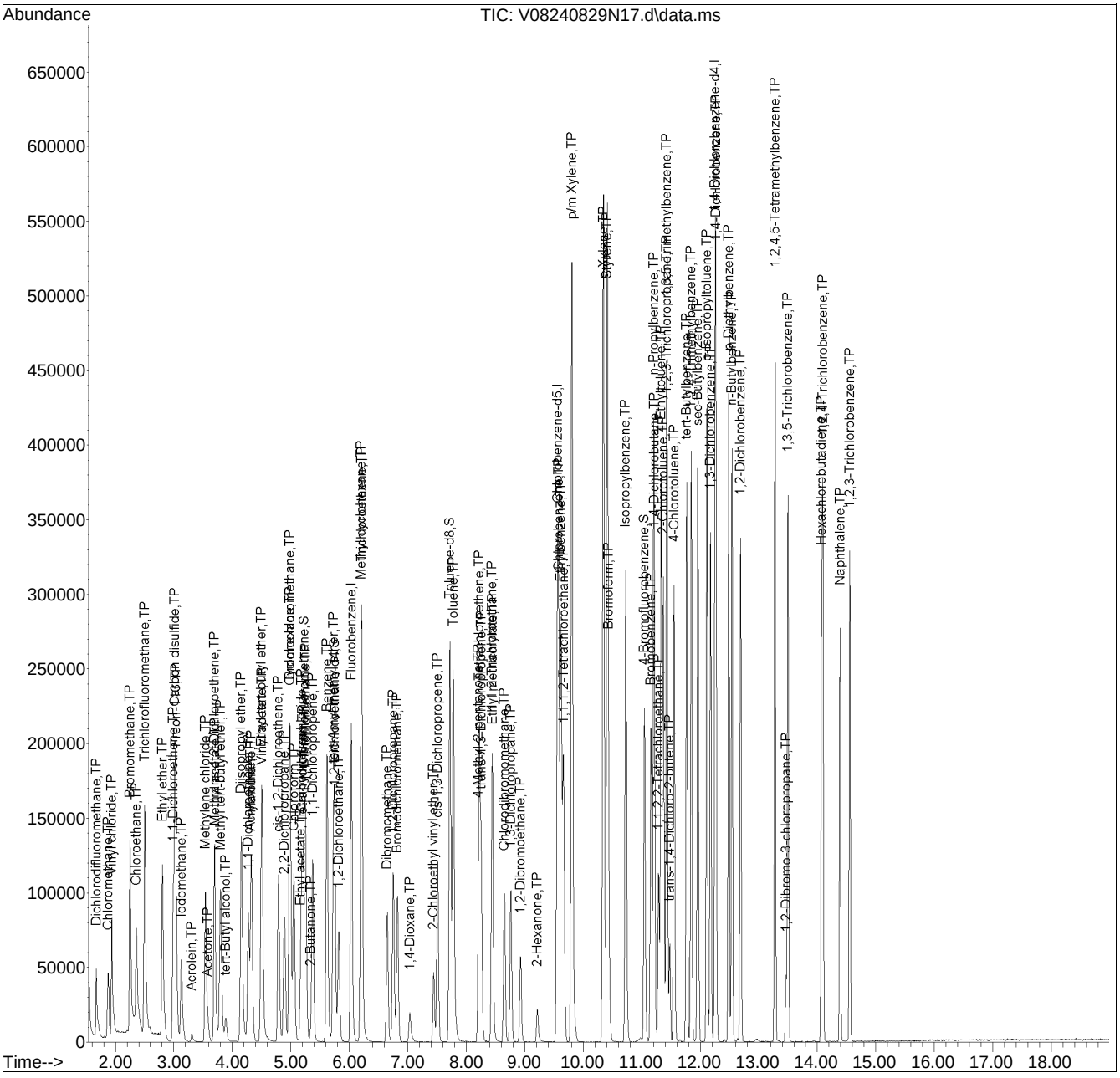
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240829N-ICAL\
Data File : V08240829N17.d
Acq On : 29 Aug 2024 10:39 pm
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1966886,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 03 11:35:58 2024
Quant Method : K:\VOA108\2024\240829N-ICAL\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus DioxL\V08240829N08.d•

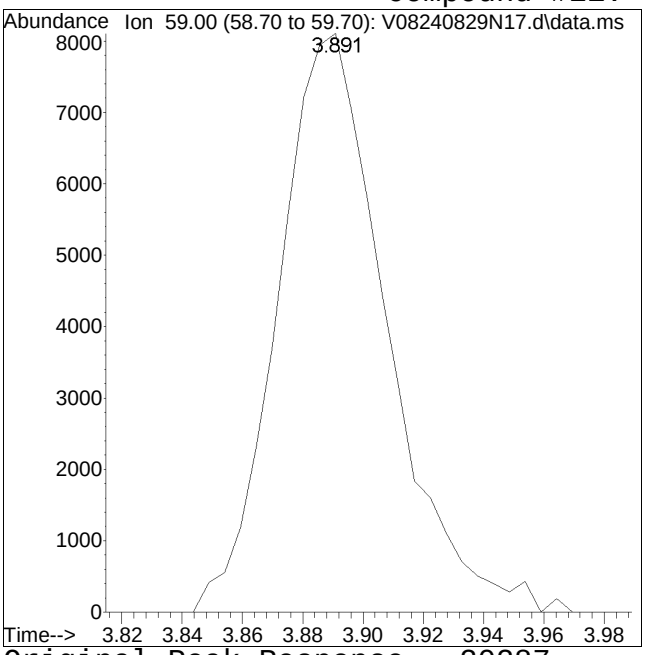


Manual Integration Report

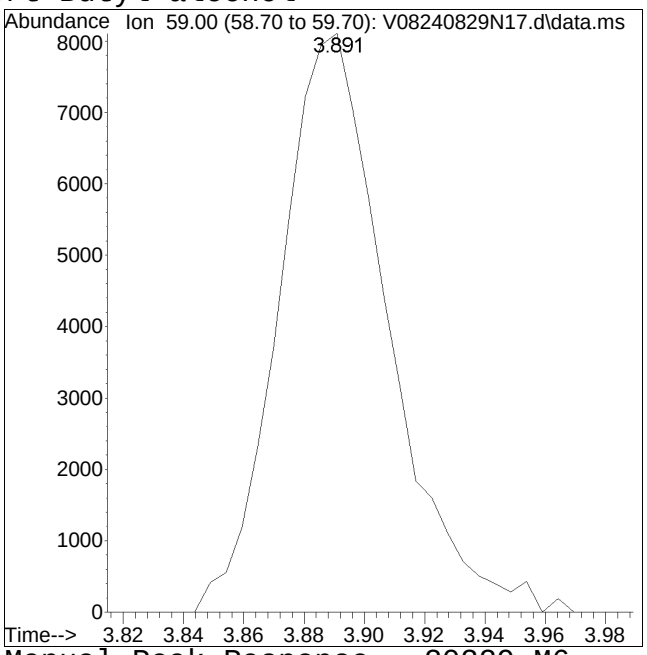
Data Path : K:\VOA108\2024\240829N-ICAQ
Data File : V08240829N17.d
Date Inj'd : 8/29/2024 10:39 pm
Sample : C8260STD10PPB

Method : V108_240829N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 9/3/2024 11:35 am

Compound #21: tert-Butyl alcohol



Original Peak Response = 20287



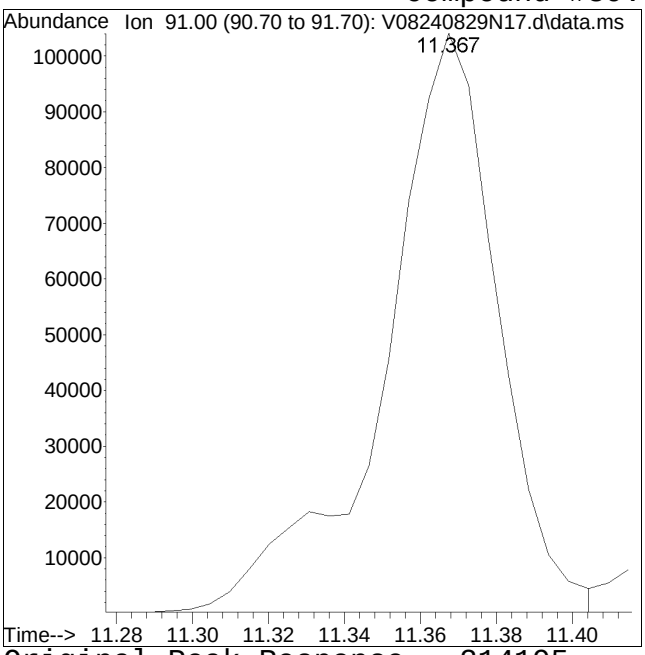
Manual Peak Response = 20229 M6

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

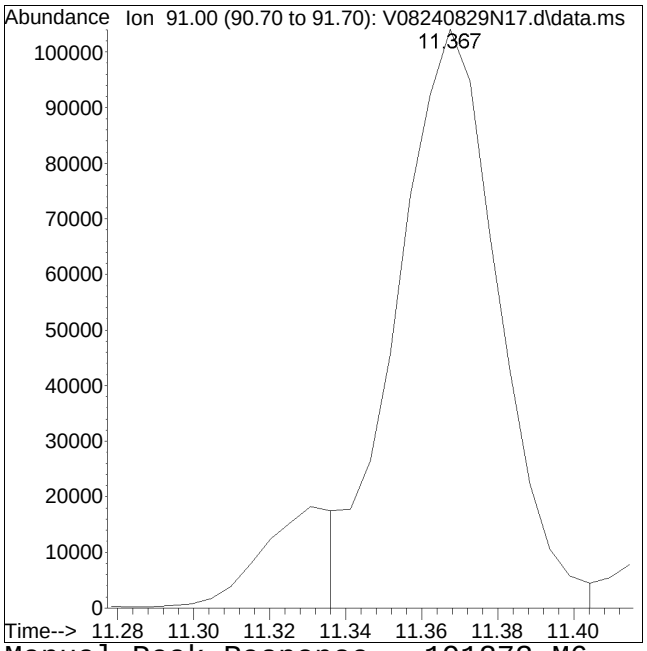
Manual Integration Report

Data Path : K:\VOA108\2024\240829N-ICAQMethod : V108_240829N_8260.m
Data File : V08240829N17.d Operator : VOA108:PID
Date Inj'd : 8/29/2024 10:39 pm Instrument : VOA 108
Sample : C8260STD10PPB Quant Date : 9/3/2024 11:35 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 214195



Manual Peak Response = 191273 M6

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

Evaluate Relative Error Report VOA 108

Method Path : K:\VOA108\2024\240829N-ICAL\
Method File : V108_240829N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Sep 03 11:34:04 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
31	TP Cyclohexane	Q	ug/L	10.0	11.836	18.4	2.00	1.701	-14.9
47	TP Methyl cyclohexane	Q	ug/L	10.0	12.280	22.8	2.00	1.518	-24.1
78	TP Styrene	L	ug/L	20.0	20.228	1.1	1.00	1.156	15.6

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
31	TP Cyclohexane	Quadratic	0.995764	0.010584	0.169893	0.0211556
47	TP Methyl cyclohexane	Quadratic	0.994548	0.013412	0.151345	0.0286641
78	TP Styrene	Linear	0.999215	0.000000	0.977168	-0.0567603

Continuing Calibration

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA108	**Calibration Date**	: 09/27/24 07:18		
Lab File ID	: V08240927A02	**Init. Calib. Date(s)**	: 08/29/24	08/29/24	
Sample No	: WG1977231-2	**Init. Calib. Times**	: 17:25	20:47	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	70	0
Dichlorodifluoromethane	0.206	0.208	-	-1	20	72	0
Chloromethane	0.216	0.246	-	-13.9	20	75	0
Vinyl chloride	0.306	0.34	-	-11.1	20	76	0
Bromomethane	0.269	0.197	-	26.8*	20	50	0
Chloroethane	0.278	0.305	-	-9.7	20	73	0
Trichlorofluoromethane	0.48	0.489	-	-1.9	20	75	0
Ethyl ether	0.194	0.183	-	5.7	20	64	0
1,1-Dichloroethene	0.185	0.186	-	-0.5	20	72	0
Carbon disulfide	0.632	0.663	-	-4.9	20	75	0
Freon-113	0.182	0.195	-	-7.1	20	80	0
Acrolein	0.029	0.029	-	0	20	73	0
Methylene chloride	0.243	0.246	-	-1.2	20	68	0
Acetone	0.044	0.045	-	-2.3	20	71	0
trans-1,2-Dichloroethene	0.225	0.217	-	3.6	20	67	0
Methyl acetate	0.106	0.118	-	-11.3	20	77	0
Methyl tert-butyl ether	0.618	0.559	-	9.5	20	63	0
tert-Butyl alcohol	0.016	0.015	-	6.3	20	67	-.01
Diisopropyl ether	0.614	0.689	-	-12.2	20	76	0
1,1-Dichloroethane	0.392	0.446	-	-13.8	20	75	0
Halothane	0.18	0.171	-	5	20	66	0
Acrylonitrile	0.057	0.069	-	-21.1*	20	81	0
Ethyl tert-butyl ether	0.639	0.618	-	3.3	20	68	0
Vinyl acetate	0.443	0.491	-	-10.8	20	76	0
cis-1,2-Dichloroethene	0.259	0.246	-	5	20	64	0
2,2-Dichloropropane	0.292	0.329	-	-12.7	20	78	0
Bromochloromethane	0.148	0.128	-	13.5	20	58	0
Cyclohexane	10	15.945	-	-59.5*	20	95	0
Chloroform	0.418	0.429	-	-2.6	20	67	0
Ethyl acetate	0.152	0.165	-	-8.6	20	77	0
Carbon tetrachloride	0.326	0.323	-	0.9	20	69	0
Tetrahydrofuran	0.047	0.051	-	-8.5	20	78	0
Dibromofluoromethane	0.304	0.301	-	1	20	69	-.01
1,1,1-Trichloroethane	0.348	0.349	-	-0.3	20	69	0
2-Butanone	0.063	0.074	-	-17.5	20	78	0
1,1-Dichloropropene	0.254	0.263	-	-3.5	20	74	0
Benzene	0.876	0.875	-	0.1	20	66	0
tert-Amyl methyl ether	0.557	0.479	-	14	20	60	0
1,2-Dichloroethane-d4	0.28	0.307	-	-9.6	20	76	-.01
1,2-Dichloroethane	0.284	0.296	-	-4.2	20	69	0
Methyl cyclohexane	10	15.058	-	-50.6*	20	86	0
Trichloroethene	0.24	0.232	-	3.3	20	66	0
Dibromomethane	0.148	0.138	-	6.8	20	62	-.01

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA108	**Calibration Date**	: 09/27/24 07:18		
Lab File ID	: V08240927A02	**Init. Calib. Date(s)**	: 08/29/24	08/29/24	
Sample No	: WG1977231-2	**Init. Calib. Times**	: 17:25	20:47	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.218	0.232	-	-6.4	20	71	0
Bromodichloromethane	0.327	0.321	-	1.8	20	65	-.01
1,4-Dioxane	0.00165	0.00125*	-	24.2*	20	52	0
cis-1,3-Dichloropropene	0.347	0.324	-	6.6	20	62	-.01
Chlorobenzene-d5	1	1	-	0	20	66	0
Toluene-d8	1.184	1.271	-	-7.3	20	68	-.01
Toluene	0.692	0.738	-	-6.6	20	65	-.01
4-Methyl-2-pentanone	0.071	0.064	-	9.9	20	64	-.01
Tetrachloroethene	0.324	0.315	-	2.8	20	61	0
trans-1,3-Dichloropropene	0.365	0.382	-	-4.7	20	63	-.01
Ethyl methacrylate	0.304	0.264	-	13.2	20	60	-.01
1,1,2-Trichloroethane	0.197	0.214	-	-8.6	20	65	-.01
Chlorodibromomethane	0.35	0.319	-	8.9	20	55	0
1,3-Dichloropropane	0.38	0.411	-	-8.2	20	65	-.01
1,2-Dibromoethane	0.24	0.238	-	0.8	20	58	0
2-Hexanone	0.106	0.105	-	0.9	20	69	-.01
Chlorobenzene	0.858	0.87	-	-1.4	20	61	0
Ethylbenzene	1.259	1.366	-	-8.5	20	67	-.01
1,1,1,2-Tetrachloroethane	0.339	0.316	-	6.8	20	55	0
p/m Xylene	0.529	0.539	-	-1.9	20	62	-.01
o Xylene	0.524	0.516	-	1.5	20	60	-.01
Styrene	20	19.268	-	3.7	20	62	-.01
1,4-Dichlorobenzene-d4	1	1	-	0	20	63	-.02
Bromoform	0.395	0.337	-	14.7	20	50	0
Isopropylbenzene	2.093	2.362	-	-12.9	20	66	-.01
4-Bromofluorobenzene	0.709	0.771	-	-8.7	20	67	0
Bromobenzene	0.692	0.679	-	1.9	20	55	0
n-Propylbenzene	2.441	2.992	-	-22.6*	20	73	0
1,4-Dichlorobutane	0.658	0.811	-	-23.3*	20	71	0
1,1,2,2-Tetrachloroethane	0.494	0.574	-	-16.2	20	65	-.01
4-Ethyltoluene	2.075	2.416	-	-16.4	20	67	-.01
2-Chlorotoluene	1.542	1.88	-	-21.9*	20	68	0
1,3,5-Trimethylbenzene	1.887	2.162	-	-14.6	20	65	-.01
1,2,3-Trichloropropane	0.397	0.44	-	-10.8	20	64	-.02
trans-1,4-Dichloro-2-buten	0.131	0.15	-	-14.5	20	63	-.01
4-Chlorotoluene	1.572	1.849	-	-17.6	20	65	0
tert-Butylbenzene	1.564	1.731	-	-10.7	20	64	-.01
1,2,4-Trimethylbenzene	1.854	2.108	-	-13.7	20	64	-.01
sec-Butylbenzene	2.154	2.696	-	-25.2*	20	74	-.01
p-Isopropyltoluene	1.981	2.233	-	-12.7	20	66	-.01
1,3-Dichlorobenzene	1.321	1.391	-	-5.3	20	58	0
1,4-Dichlorobenzene	1.357	1.397	-	-2.9	20	58	-.01
p-Diethylbenzene	1.232	1.293	-	-5	20	65	-.01

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA108	**Calibration Date**	: 09/27/24 07:18		
Lab File ID	: V08240927A02	**Init. Calib. Date(s)**	: 08/29/24	08/29/24	
Sample No	: WG1977231-2	**Init. Calib. Times**	: 17:25	20:47	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	1.574	2.15	-	-36.6*	20	81	-.01
1,2-Dichlorobenzene	1.283	1.291	-	-0.6	20	56	-.01
1,2,4,5-Tetramethylbenzene	2.065	1.924	-	6.8	20	57	-.01
1,2-Dibromo-3-chloropropan	0.088	0.078	-	11.4	20	50	-.01
1,3,5-Trichlorobenzene	0.998	1.004	-	-0.6	20	57	0
Hexachlorobutadiene	0.39	0.412	-	-5.6	20	66	-.01
1,2,4-Trichlorobenzene	0.892	0.85	-	4.7	20	54	-.01
Naphthalene	1.616	1.569	-	2.9	20	55	0
1,2,3-Trichlorobenzene	0.829	0.781	-	5.8	20	52	-.01

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A02.d
Acq On : 27 Sep 2024 7:18 am
Operator : VOA108:PID
Sample : WG1977231-2
Misc : WG1977231,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 07:49:47 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	70	0.00
2	TP	Dichlorodifluoromethane	0.206	0.208	-1.0	72	0.00
3	TP	Chloromethane	0.216	0.246	-13.9	75	0.00
4	TP	Vinyl chloride	0.306	0.340	-11.1	76	0.00
5	TP	Bromomethane	0.269	0.197	26.8#	50#	0.00
6	TP	Chloroethane	0.278	0.305	-9.7	73	0.00
7	TP	Trichlorofluoromethane	0.480	0.489	-1.9	75	0.00
8	TP	Ethyl ether	0.194	0.183	5.7	64	0.00
10	TP	1,1-Dichloroethene	0.185	0.186	-0.5	72	0.00
11	TP	Carbon disulfide	0.632	0.663	-4.9	75	0.00
12	TP	Freon-113	0.182	0.195	-7.1	80	0.00
14	TP	Acrolein	0.029	0.029	0.0	73	0.00
15	TP	Methylene chloride	0.243	0.246	-1.2	68	0.00
17	TP	Acetone	0.044	0.045	-2.3	71	0.00
18	TP	trans-1,2-Dichloroethene	0.225	0.217	3.6	67	0.00
19	TP	Methyl acetate	0.106	0.118	-11.3	77	0.00
20	TP	Methyl tert-butyl ether	0.618	0.559	9.5	63	0.00
21	TP	tert-Butyl alcohol	0.016	0.015	6.3	67	-0.01
22	TP	Diisopropyl ether	0.614	0.689	-12.2	76	0.00
23	TP	1,1-Dichloroethane	0.392	0.446	-13.8	75	0.00
24	TP	Halothane	0.180	0.171	5.0	66	0.00
25	TP	Acrylonitrile	0.057	0.069	-21.1#	81	0.00
26	TP	Ethyl tert-butyl ether	0.639	0.618	3.3	68	0.00
27	TP	Vinyl acetate	0.443	0.491	-10.8	76	0.00
28	TP	cis-1,2-Dichloroethene	0.259	0.246	5.0	64	0.00
29	TP	2,2-Dichloropropane	0.292	0.329	-12.7	78	0.00
30	TP	Bromochloromethane	0.148	0.128	13.5	58	0.00
31	TP	Cyclohexane	* 10.000	15.945	-59.5#	95	0.00
32	TP	Chloroform	0.418	0.429	-2.6	67	0.00
33	TP	Ethyl acetate	0.152	0.165	-8.6	77	0.00
34	TP	Carbon tetrachloride	0.326	0.323	0.9	69	0.00
35	TP	Tetrahydrofuran	0.047	0.051	-8.5	78	0.00
36	S	Dibromofluoromethane	0.304	0.301	1.0	69	-0.01
37	TP	1,1,1-Trichloroethane	0.348	0.349	-0.3	69	0.00
39	TP	2-Butanone	0.063	0.074	-17.5	78	0.00
40	TP	1,1-Dichloropropene	0.254	0.263	-3.5	74	0.00
41	TP	Benzene	0.876	0.875	0.1	66	0.00
42	TP	tert-Amyl methyl ether	0.557	0.479	14.0	60	0.00
43	S	1,2-Dichloroethane-d4	0.280	0.307	-9.6	76	-0.01

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A02.d
Acq On : 27 Sep 2024 7:18 am
Operator : VOA108:PID
Sample : WG1977231-2
Misc : WG1977231,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 07:49:47 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44	TP	1,2-Dichloroethane	0.284	0.296	-4.2	69	0.00
47	TP	Methyl cyclohexane	* 10.000	15.058	-50.6#	86	0.00
48	TP	Trichloroethene	0.240	0.232	3.3	66	0.00
50	TP	Dibromomethane	0.148	0.138	6.8	62	-0.01
51	TP	1,2-Dichloropropane	0.218	0.232	-6.4	71	0.00
54	TP	Bromodichloromethane	0.327	0.321	1.8	65	-0.01
57	TP	1,4-Dioxane	0.00165	0.00125#	24.2#	52	0.00
58	TP	cis-1,3-Dichloropropene	0.347	0.324	6.6	62	-0.01
59	I	Chlorobenzene-d5	1.000	1.000	0.0	66	0.00
60	S	Toluene-d8	1.184	1.271	-7.3	68	-0.01
61	TP	Toluene	0.692	0.738	-6.6	65	-0.01
62	TP	4-Methyl-2-pentanone	0.071	0.064	9.9	64	-0.01
63	TP	Tetrachloroethene	0.324	0.315	2.8	61	0.00
65	TP	trans-1,3-Dichloropropene	0.365	0.382	-4.7	63	-0.01
67	TP	Ethyl methacrylate	0.304	0.264	13.2	60	-0.01
68	TP	1,1,2-Trichloroethane	0.197	0.214	-8.6	65	-0.01
69	TP	Chlorodibromomethane	0.350	0.319	8.9	55	0.00
70	TP	1,3-Dichloropropane	0.380	0.411	-8.2	65	-0.01
71	TP	1,2-Dibromoethane	0.240	0.238	0.8	58	0.00
72	TP	2-Hexanone	0.106	0.105	0.9	69	-0.01
73	TP	Chlorobenzene	0.858	0.870	-1.4	61	0.00
74	TP	Ethylbenzene	1.259	1.366	-8.5	67	-0.01
75	TP	1,1,1,2-Tetrachloroethane	0.339	0.316	6.8	55	0.00
76	TP	p/m Xylene	0.529	0.539	-1.9	62	-0.01
77	TP	o Xylene	0.524	0.516	1.5	60	-0.01
78	TP	Styrene	* 20.000	19.268	3.7	62	-0.01
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	63	-0.02
80	TP	Bromoform	0.395	0.337	14.7	50#	0.00
82	TP	Isopropylbenzene	2.093	2.362	-12.9	66	-0.01
83	S	4-Bromofluorobenzene	0.709	0.771	-8.7	67	0.00
84	TP	Bromobenzene	0.692	0.679	1.9	55	0.00
85	TP	n-Propylbenzene	2.441	2.992	-22.6#	73	0.00
86	TP	1,4-Dichlorobutane	0.658	0.811	-23.3#	71	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.494	0.574	-16.2	65	-0.01
88	TP	4-Ethyltoluene	2.075	2.416	-16.4	67	-0.01
89	TP	2-Chlorotoluene	1.542	1.880	-21.9#	68	0.00
90	TP	1,3,5-Trimethylbenzene	1.887	2.162	-14.6	65	-0.01

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A02.d
Acq On : 27 Sep 2024 7:18 am
Operator : VOA108:PID
Sample : WG1977231-2
Misc : WG1977231,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 07:49:47 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
91 TP	1,2,3-Trichloropropane	0.397	0.440	-10.8	64	-0.02
92 TP	trans-1,4-Dichloro-2-butene	0.131	0.150	-14.5	63	-0.01
93 TP	4-Chlorotoluene	1.572	1.849	-17.6	65	0.00
94 TP	tert-Butylbenzene	1.564	1.731	-10.7	64	-0.01
97 TP	1,2,4-Trimethylbenzene	1.854	2.108	-13.7	64	-0.01
98 TP	sec-Butylbenzene	2.154	2.696	-25.2#	74	-0.01
99 TP	p-Isopropyltoluene	1.981	2.233	-12.7	66	-0.01
100 TP	1,3-Dichlorobenzene	1.321	1.391	-5.3	58	0.00
101 TP	1,4-Dichlorobenzene	1.357	1.397	-2.9	58	-0.01
102 TP	p-Diethylbenzene	1.232	1.293	-5.0	65	-0.01
103 TP	n-Butylbenzene	1.574	2.150	-36.6#	81	-0.01
104 TP	1,2-Dichlorobenzene	1.283	1.291	-0.6	56	-0.01
105 TP	1,2,4,5-Tetramethylbenzene	2.065	1.924	6.8	57	-0.01
106 TP	1,2-Dibromo-3-chloropropane	0.088	0.078	11.4	50	-0.01
107 TP	1,3,5-Trichlorobenzene	0.998	1.004	-0.6	57	0.00
108 TP	Hexachlorobutadiene	0.390	0.412	-5.6	66	-0.01
109 TP	1,2,4-Trichlorobenzene	0.892	0.850	4.7	54	-0.01
110 TP	Naphthalene	1.616	1.569	2.9	55	0.00
111 TP	1,2,3-Trichlorobenzene	0.829	0.781	5.8	52	-0.01

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A02.d
Acq On : 27 Sep 2024 7:18 am
Operator : VOA108:PID
Sample : WG1977231-2
Misc : WG1977231,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 07:49:47 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240927A\V08240927A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.025	96	161447	10.000	ug/L	0.00
Standard Area 1 = 161447			Recovery = 100.00%			
59) Chlorobenzene-d5	9.548	117	119333	10.000	ug/L	0.00
Standard Area 1 = 119333			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.238	152	65315	10.000	ug/L	-0.02
Standard Area 1 = 65315			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.218	113	48662	9.904	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.04%			
43) 1,2-Dichloroethane-d4	5.742	65	49533	10.957	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.57%			
60) Toluene-d8	7.708	98	151707	10.741	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.41%			
83) 4-Bromofluorobenzene	11.037	95	50366	10.877	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.77%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.673	85	33629	10.110	ug/L	100
3) Chloromethane	1.872	50	39782	11.390	ug/L	99
4) Vinyl chloride	1.935	62	54827	11.087	ug/L	96
5) Bromomethane	2.245	94	31876	7.328	ug/L	98
6) Chloroethane	2.365	64	49196	10.947	ug/L	98
7) Trichlorofluoromethane	2.502	101	79028	10.202	ug/L	97
8) Ethyl ether	2.800	74	29614	9.452	ug/L	88
10) 1,1-Dichloroethene	2.989	96	30006	10.028	ug/L #	67
11) Carbon disulfide	3.015	76	107008	10.486	ug/L	97
12) Freon-113	3.026	101	31420	10.722	ug/L	100
14) Acrolein	3.304	56	4696	10.051	ug/L	93
15) Methylene chloride	3.535	84	39761	10.121	ug/L	78
17) Acetone	3.582	43	7252	10.324	ug/L	99
18) trans-1,2-Dichloroethene	3.692	96	35035	9.634	ug/L	77
19) Methyl acetate	3.697	43	19064	11.110	ug/L #	87
20) Methyl tert-butyl ether	3.791	73	90188	9.034	ug/L	96
21) tert-Butyl alcohol	3.881	59	11984	46.289	ug/L #	53
22) Diisopropyl ether	4.148	45	111200	11.227	ug/L	90
23) 1,1-Dichloroethane	4.269	63	71970	11.376	ug/L	98
24) Halothane	4.321	117	27667	9.523	ug/L	99
25) Acrylonitrile	4.310	53	11060	12.020	ug/L #	88

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A02.d
Acq On : 27 Sep 2024 7:18 am
Operator : VOA108:PID
Sample : WG1977231-2
Misc : WG1977231,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 07:49:47 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240927A\V08240927A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Ethyl tert-butyl ether	4.494	59	99787	9.674	ug/L		83
27) Vinyl acetate	4.499	43	79307	11.088	ug/L	#	96
28) cis-1,2-Dichloroethene	4.782	96	39712	9.486	ug/L	#	72
29) 2,2-Dichloropropane	4.887	77	53062	11.272	ug/L		99
30) Bromochloromethane	4.976	128	20656	8.637	ug/L	#	63
31) Cyclohexane	4.982	56	51494	15.945	ug/L	#	67
32) Chloroform	5.045	83	69196	10.265	ug/L		97
33) Ethyl acetate	5.155	43	26583	10.802	ug/L	#	93
34) Carbon tetrachloride	5.181	117	52180	9.922	ug/L		99
35) Tetrahydrofuran	5.197	42	8170	10.822	ug/L	#	82
37) 1,1,1-Trichloroethane	5.244	97	56406	10.032	ug/L	#	94
39) 2-Butanone	5.338	43	12026	11.789	ug/L	#	91
40) 1,1-Dichloropropene	5.364	75	42534	10.378	ug/L		94
41) Benzene	5.611	78	141334	9.998	ug/L		93
42) tert-Amyl methyl ether	5.726	73	77294	8.601	ug/L		97
44) 1,2-Dichloroethane	5.815	62	47804	10.429	ug/L		96
47) Methyl cyclohexane	6.198	83	46330	15.058	ug/L	#	78
48) Trichloroethene	6.203	95	37439	9.646	ug/L		92
50) Dibromomethane	6.638	93	22259	9.314	ug/L		95
51) 1,2-Dichloropropane	6.743	63	37408	10.606	ug/L		96
54) Bromodichloromethane	6.811	83	51843	9.812	ug/L		98
57) 1,4-Dioxane	7.021	88	10125	379.342	ug/L	#	79
58) cis-1,3-Dichloropropene	7.498	75	52382	9.349	ug/L		90
61) Toluene	7.766	92	88083	10.670	ug/L		100
62) 4-Methyl-2-pentanone	8.201	58	7644	9.073	ug/L	#	85
63) Tetrachloroethene	8.217	166	37571	9.712	ug/L		89
65) trans-1,3-Dichloropropene	8.243	75	45619	10.462	ug/L		91
67) Ethyl methacrylate	8.437	69	31477	8.683	ug/L	#	32
68) 1,1,2-Trichloroethane	8.431	83	25494	10.837	ug/L		95
69) Chlorodibromomethane	8.641	129	38058	9.125	ug/L		97
70) 1,3-Dichloropropane	8.751	76	49021	10.819	ug/L		100
71) 1,2-Dibromoethane	8.919	107	28399	9.904	ug/L		99
72) 2-Hexanone	9.202	43	12488	9.878	ug/L	#	93
73) Chlorobenzene	9.564	112	103855	10.149	ug/L		99
74) Ethylbenzene	9.606	91	162988	10.849	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.653	131	37750	9.333	ug/L		94
76) p/m Xylene	9.795	106	128674	20.367	ug/L		94
77) o Xylene	10.329	106	123110	19.677	ug/L		90
78) Styrene	10.398	104	217902	19.268	ug/L	#	84
80) Bromoform	10.424	173	22009	8.529	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A02.d
Acq On : 27 Sep 2024 7:18 am
Operator : VOA108:PID
Sample : WG1977231-2
Misc : WG1977231,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 07:49:47 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240927A\V08240927A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
82) Isopropylbenzene	10.712	105	154267	11.284	ug/L		95
84) Bromobenzene	11.147	156	44351	9.814	ug/L		98
85) n-Propylbenzene	11.195	91	195414	12.256	ug/L		98
86) 1,4-Dichlorobutane	11.205	55	52941	12.317	ug/L		94
87) 1,1,2,2-Tetrachloroethane	11.273	83	37513	11.636	ug/L		99
88) 4-Ethyltoluene	11.320	105	157796	11.644	ug/L		95
89) 2-Chlorotoluene	11.357	91	122782M6	12.195	ug/L		
90) 1,3,5-Trimethylbenzene	11.415	105	141179	11.457	ug/L		90
91) 1,2,3-Trichloropropane	11.410	75	28757	11.100	ug/L		97
92) trans-1,4-Dichloro-2-b...	11.462	53	9798	11.433	ug/L	#	84
93) 4-Chlorotoluene	11.541	91	120800	11.765	ug/L	#	89
94) tert-Butylbenzene	11.756	119	113082	11.068	ug/L		96
97) 1,2,4-Trimethylbenzene	11.834	105	137700	11.372	ug/L		92
98) sec-Butylbenzene	11.944	105	176105	12.519	ug/L		96
99) p-Isopropyltoluene	12.102	119	145846	11.274	ug/L		94
100) 1,3-Dichlorobenzene	12.165	146	90833	10.524	ug/L		96
101) 1,4-Dichlorobenzene	12.254	146	91238	10.296	ug/L		97
102) p-Diethylbenzene	12.474	119	84484	10.500	ug/L		93
103) n-Butylbenzene	12.532	91	140442	13.664	ug/L		97
104) 1,2-Dichlorobenzene	12.678	146	84314	10.062	ug/L		96
105) 1,2,4,5-Tetramethylben...	13.266	119	125668	9.318	ug/L		96
106) 1,2-Dibromo-3-chloropr...	13.454	155	5090	8.879	ug/L		93
107) 1,3,5-Trichlorobenzene	13.491	180	65561	10.059	ug/L		92
108) Hexachlorobutadiene	14.063	225	26905	10.567	ug/L		95
109) 1,2,4-Trichlorobenzene	14.084	180	55488	9.528	ug/L		98
110) Naphthalene	14.377	128	102473	9.708	ug/L		100
111) 1,2,3-Trichlorobenzene	14.545	180	51014	9.427	ug/L		100

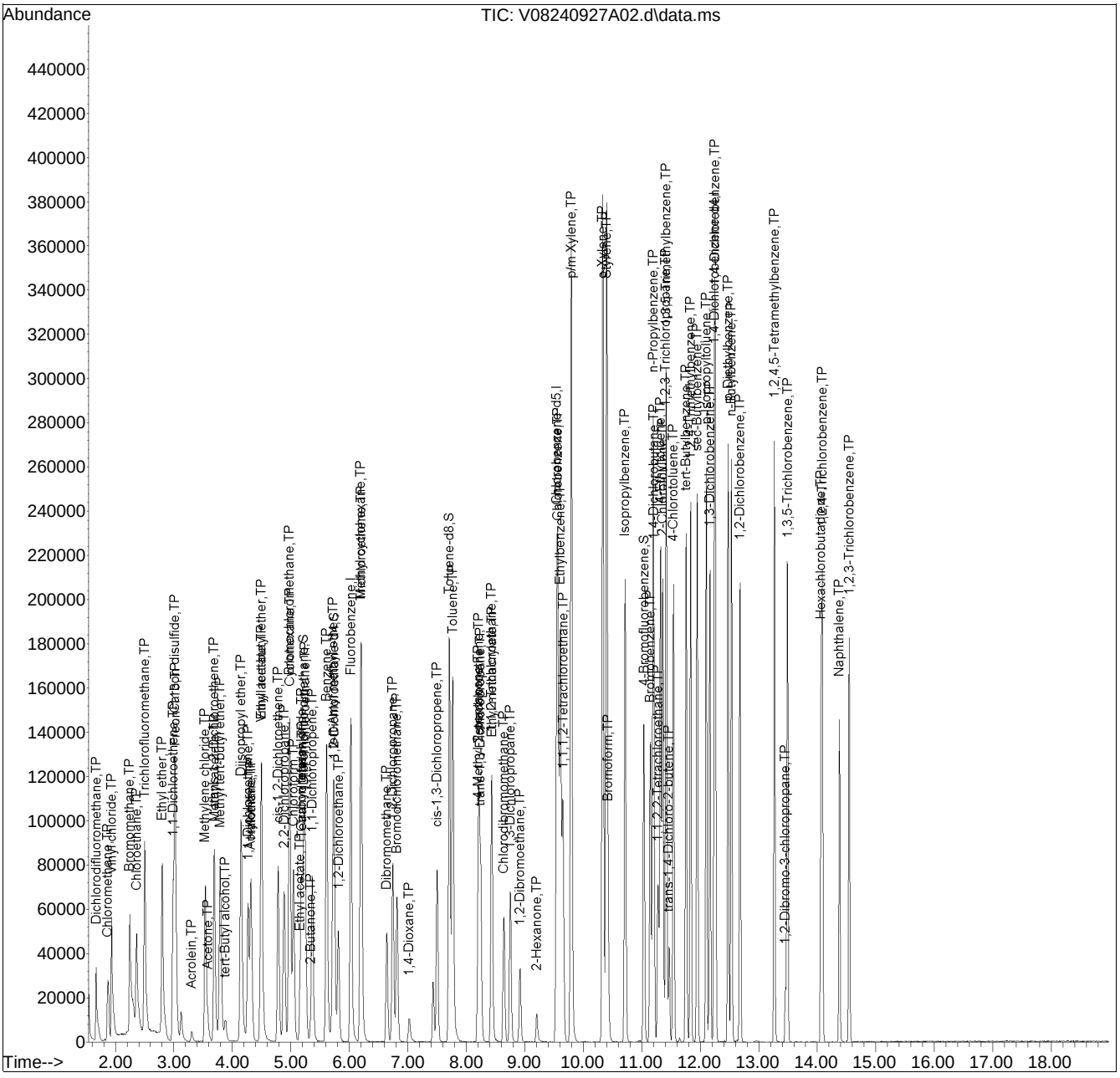
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A02.d
Acq On : 27 Sep 2024 7:18 am
Operator : VOA108:PID
Sample : WG1977231-2
Misc : WG1977231,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 07:49:47 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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

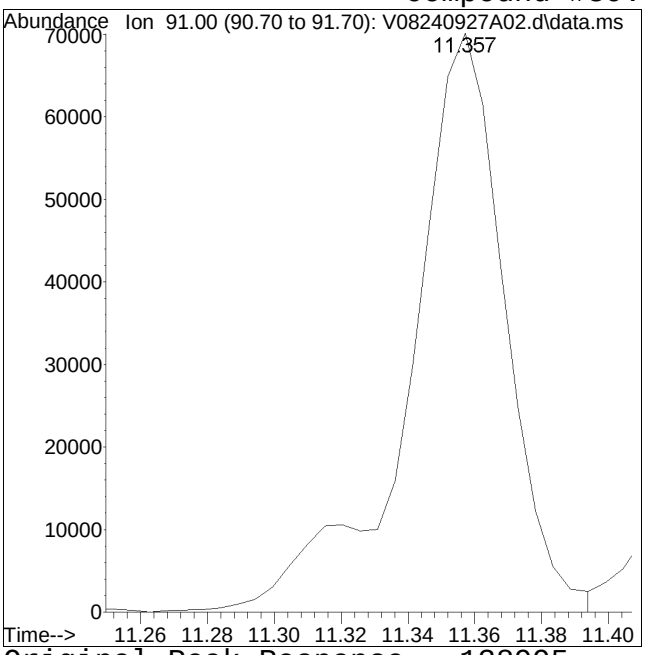


Manual Integration Report

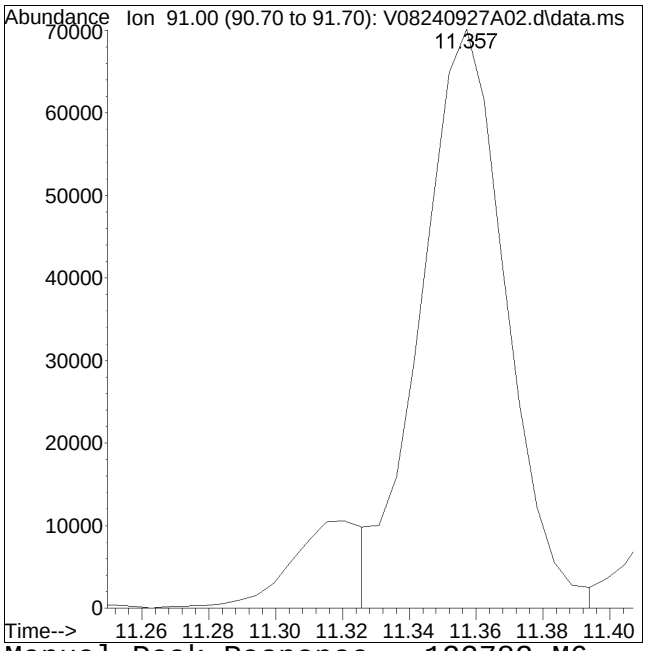
Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A02.d
Date Inj'd : 9/27/2024 7:18 am
Sample : WG1977231-2

QMethod : V108_240829N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 9/27/2024 7:48 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 138995



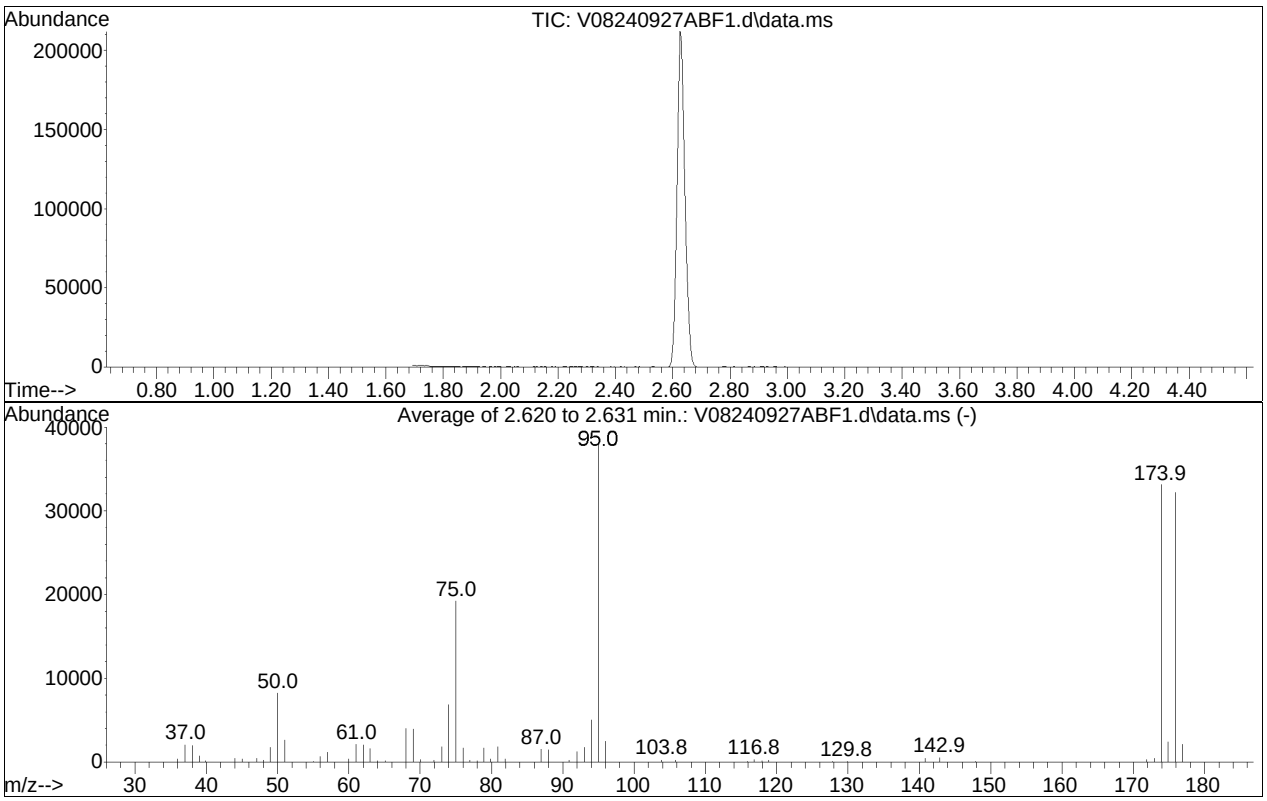
Manual Peak Response = 122782 M6

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

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927ABF1.d
Acq On : 27 Sep 2024 6:40 am
Operator : VOA108:PID
Sample : WG1977231-1
Misc : WG1977231,ICAL21441
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Sep 03 11:34:04 2024



Spectrum Information: Average of 2.620 to 2.631 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	8271	PASS
75	95	30	60	50.4	19224	PASS
95	95	100	100	100.0	38133	PASS
96	95	5	9	6.5	2467	PASS
173	174	0.00	2	1.4	452	PASS
174	95	50	100	86.9	33155	PASS
175	174	5	9	7.4	2468	PASS
176	174	95	101	97.1	32195	PASS
177	176	5	9	6.5	2090	PASS

Volatiles Raw QC Data

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A05.d
Acq On : 27 Sep 2024 8:25 am
Operator : VOA108:PID
Sample : WG1977231-5,31,10,10
Misc : WG1977231,ICAL21441
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 08:57:28 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240927A\V08240927A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.030	96	147907	10.000	ug/L	0.00
Standard Area 1 = 161447			Recovery = 91.61%			
59) Chlorobenzene-d5	9.548	117	111337	10.000	ug/L	0.00
Standard Area 1 = 119333			Recovery = 93.30%			
79) 1,4-Dichlorobenzene-d4	12.243	152	54503	10.000	ug/L	0.00
Standard Area 1 = 65315			Recovery = 83.45%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.223	113	46490	10.329	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.29%			
43) 1,2-Dichloroethane-d4	5.742	65	48572	11.728	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.28%			
60) Toluene-d8	7.713	98	135322	10.269	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.69%			
83) 4-Bromofluorobenzene	11.037	95	41666	10.783	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.83%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0		N.D.	
3) Chloromethane	0.000		0		N.D.	
4) Vinyl chloride	0.000		0		N.D.	
5) Bromomethane	0.000		0		N.D.	
6) Chloroethane	0.000		0		N.D.	
7) Trichlorofluoromethane	0.000		0		N.D.	
10) 1,1-Dichloroethene	0.000		0		N.D.	
11) Carbon disulfide	3.021	76	524		N.D.	
12) Freon-113	0.000		0		N.D.	
15) Methylene chloride	0.000		0		N.D.	
17) Acetone	0.000		0		N.D.	
18) trans-1,2-Dichloroethene	0.000		0		N.D.	
19) Methyl acetate	0.000		0		N.D.	
20) Methyl tert-butyl ether	0.000		0		N.D.	
23) 1,1-Dichloroethane	0.000		0		N.D.	
28) cis-1,2-Dichloroethene	0.000		0		N.D.	
30) Bromochloromethane	0.000		0		N.D.	
31) Cyclohexane	0.000		0		N.D.	
32) Chloroform	0.000		0		N.D.	
34) Carbon tetrachloride	0.000		0		N.D.	

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A05.d
Acq On : 27 Sep 2024 8:25 am
Operator : VOA108:PID
Sample : WG1977231-5,31,10,10
Misc : WG1977231,ICAL21441
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 08:57:28 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240927A\V08240927A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	0.000		0	N.D.		
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	0.000		0	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	9.574	112	50	N.D.		
74) Ethylbenzene	9.606	91	48	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.	d	
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	10.717	105	47	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	12.165	146	217	N.D.		
101) 1,4-Dichlorobenzene	12.259	146	574	0.078	ug/L #	14
104) 1,2-Dichlorobenzene	12.689	146	193	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	14.089	180	396	0.081	ug/L #	77
111) 1,2,3-Trichlorobenzene	14.550	180	219	N.D.		

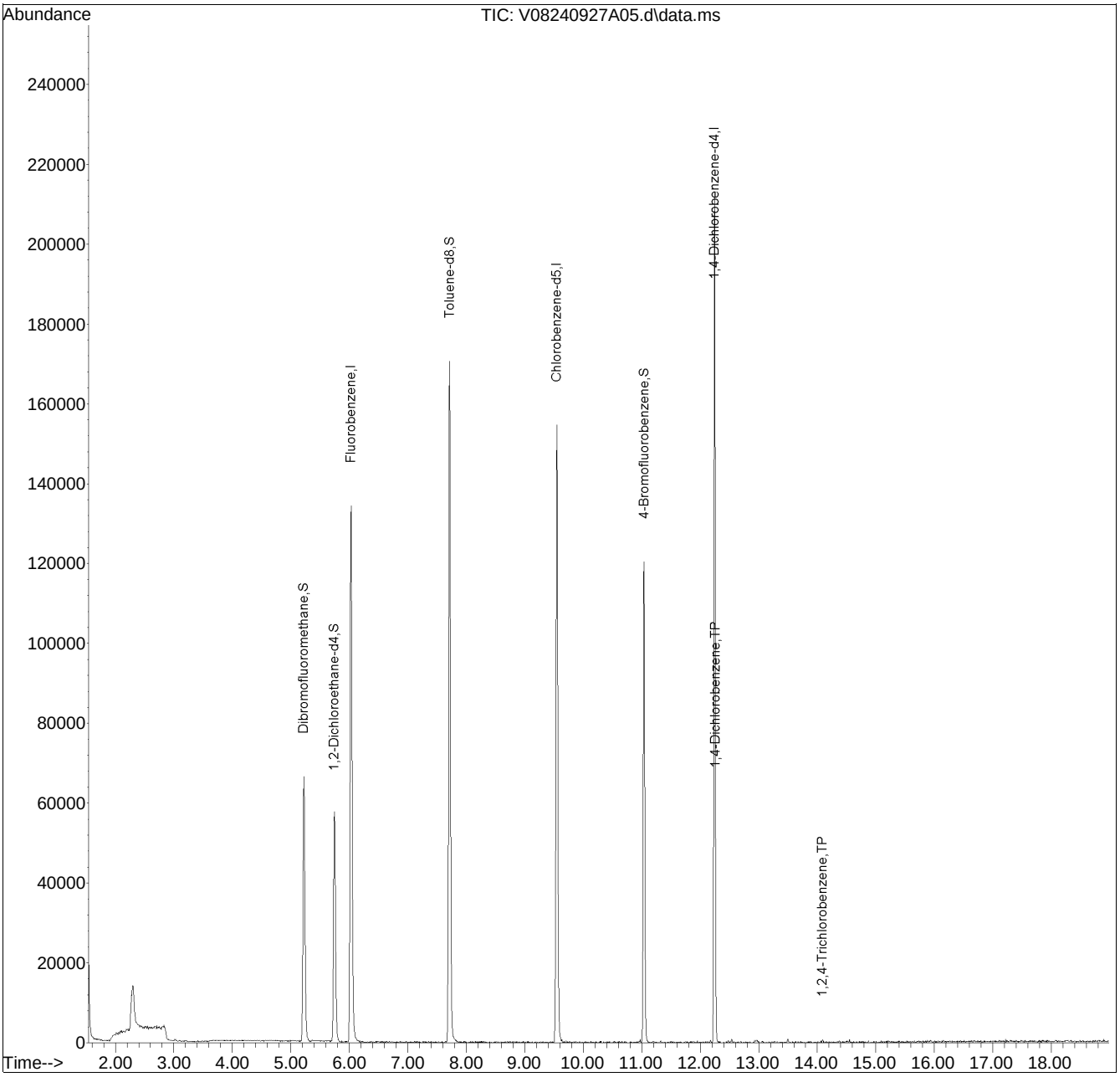
(#) = qualifier out of range (m) = manual integration (+) = signals summed

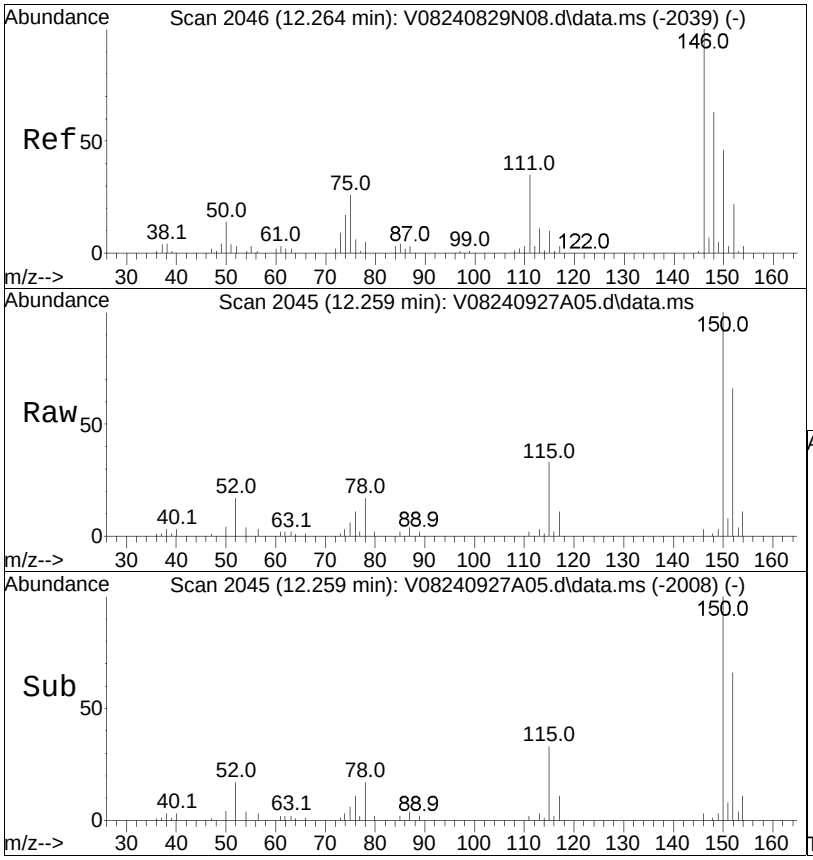
Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A05.d
Acq On : 27 Sep 2024 8:25 am
Operator : VOA108:PID
Sample : WG1977231-5,31,10,10
Misc : WG1977231,ICAL21441
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 08:57:28 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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

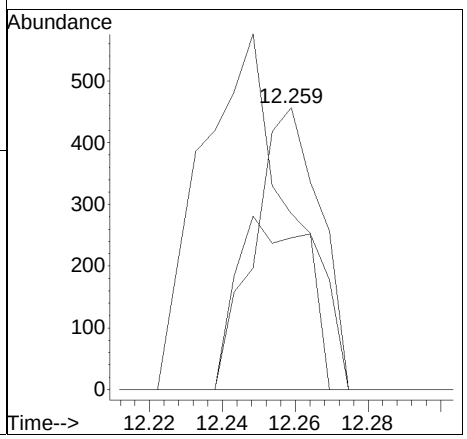


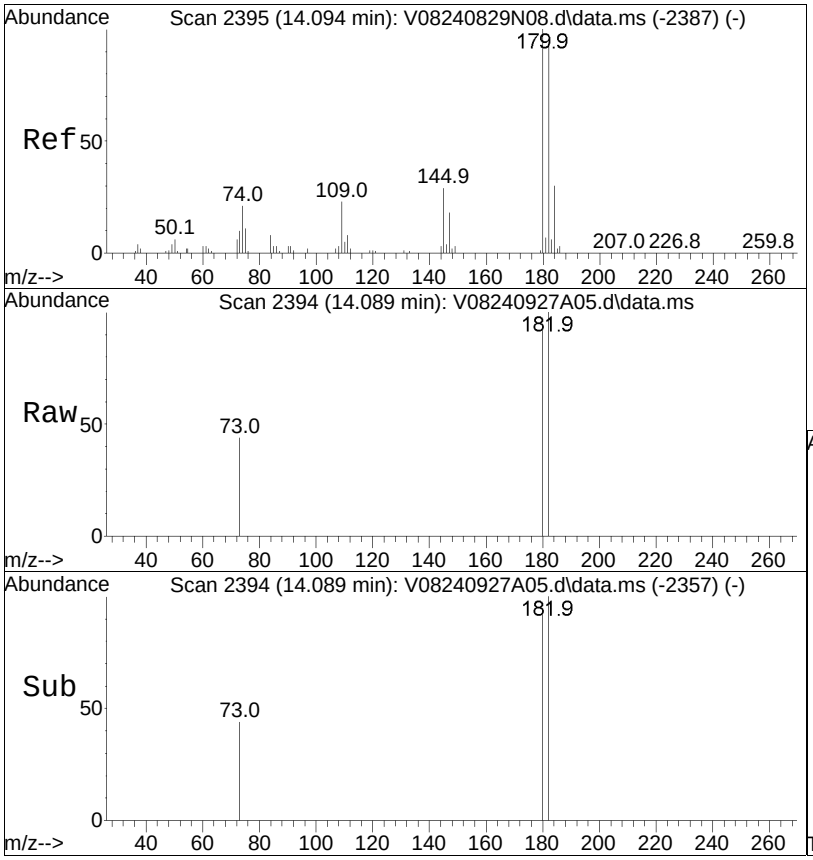


#101
1,4-Dichlorobenzene
Concen: 0.08 ug/L
RT: 12.259 min Scan# 2045
Delta R.T. -0.005 min
Lab File: V08240927A05.d
Acq: 27 Sep 2024 8:25 am

Tgt Ion:146 Resp: 574

Ion	Ratio	Lower	Upper
146	100		
111	160.5	32.3	48.5#
148	75.6	49.9	74.9#

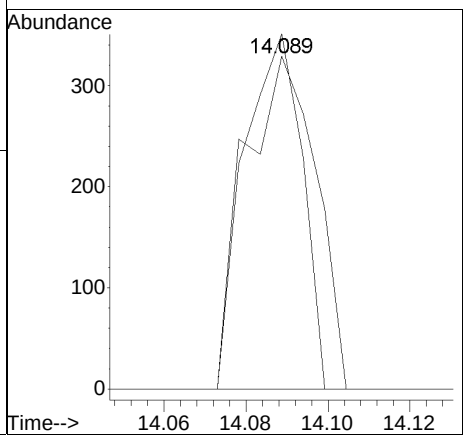




#109
1,2,4-Trichlorobenzene
Concen: 0.08 ug/L
RT: 14.089 min Scan# 2394
Delta R.T. -0.005 min
Lab File: V08240927A05.d
Acq: 27 Sep 2024 8:25 am

Tgt Ion:180 Resp: 396

Ion	Ratio	Lower	Upper
180	100		
182	86.9	77.3	115.9
145	0.0	28.1	42.1#



Manual Integration Report

Data Path	: K:\VOA108\2024\240927A\	QMethod	: V108_240829N_8260.m
Data File	: V08240927A05.d	Operator	: VOA108:PID
Date Inj'd	: 9/27/2024 8:25 am	Instrument	: VOA 108
Sample	: WG1977231-5,31,10,10	Quant Date	: 9/27/2024 8:57 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A02.d
Acq On : 27 Sep 2024 7:18 am
Operator : VOA108:PID
Sample : WG1977231-3,31,10,10
Misc : WG1977231,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 07:49:47 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240927A\V08240927A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.025	96	161447	10.000	ug/L	0.00
Standard Area 1 = 161447			Recovery = 100.00%			
59) Chlorobenzene-d5	9.548	117	119333	10.000	ug/L	0.00
Standard Area 1 = 119333			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.238	152	65315	10.000	ug/L	-0.02
Standard Area 1 = 65315			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.218	113	48662	9.904	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.04%			
43) 1,2-Dichloroethane-d4	5.742	65	49533	10.957	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.57%			
60) Toluene-d8	7.708	98	151707	10.741	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.41%			
83) 4-Bromofluorobenzene	11.037	95	50366	10.877	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.77%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.673	85	33629	10.110	ug/L	100
3) Chloromethane	1.872	50	39782	11.390	ug/L	99
4) Vinyl chloride	1.935	62	54827	11.087	ug/L	96
5) Bromomethane	2.245	94	31876	7.328	ug/L	98
6) Chloroethane	2.365	64	49196	10.947	ug/L	98
7) Trichlorofluoromethane	2.502	101	79028	10.202	ug/L	97
10) 1,1-Dichloroethene	2.989	96	30006	10.028	ug/L #	67
11) Carbon disulfide	3.015	76	107008	10.486	ug/L	97
12) Freon-113	3.026	101	31420	10.722	ug/L	100
15) Methylene chloride	3.535	84	39761	10.121	ug/L	78
17) Acetone	3.582	43	7252	10.324	ug/L	99
18) trans-1,2-Dichloroethene	3.692	96	35035	9.634	ug/L	77
19) Methyl acetate	3.697	43	19064	11.110	ug/L #	87
20) Methyl tert-butyl ether	3.791	73	90188	9.034	ug/L	96
23) 1,1-Dichloroethane	4.269	63	71970	11.376	ug/L	98
28) cis-1,2-Dichloroethene	4.782	96	39712	9.486	ug/L #	72
30) Bromochloromethane	4.976	128	20656	8.637	ug/L #	63
31) Cyclohexane	4.982	56	51494	15.945	ug/L #	67
32) Chloroform	5.045	83	69196	10.265	ug/L	97
34) Carbon tetrachloride	5.181	117	52180	9.922	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A02.d
Acq On : 27 Sep 2024 7:18 am
Operator : VOA108:PID
Sample : WG1977231-3,31,10,10
Misc : WG1977231,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 07:49:47 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240927A\V08240927A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.244	97	56406	10.032	ug/L	#	94
39) 2-Butanone	5.338	43	12026	11.789	ug/L	#	91
41) Benzene	5.611	78	141334	9.998	ug/L		93
44) 1,2-Dichloroethane	5.815	62	47804	10.429	ug/L		96
47) Methyl cyclohexane	6.198	83	46330	15.058	ug/L	#	78
48) Trichloroethene	6.203	95	37439	9.646	ug/L		92
51) 1,2-Dichloropropane	6.743	63	37408	10.606	ug/L		96
54) Bromodichloromethane	6.811	83	51843	9.812	ug/L		98
58) cis-1,3-Dichloropropene	7.498	75	52382	9.349	ug/L		90
61) Toluene	7.766	92	88083	10.670	ug/L		100
62) 4-Methyl-2-pentanone	8.201	58	7644	9.073	ug/L	#	85
63) Tetrachloroethene	8.217	166	37571	9.712	ug/L		89
65) trans-1,3-Dichloropropene	8.243	75	45619	10.462	ug/L		91
68) 1,1,2-Trichloroethane	8.431	83	25494	10.837	ug/L		95
69) Chlorodibromomethane	8.641	129	38058	9.125	ug/L		97
71) 1,2-Dibromoethane	8.919	107	28399	9.904	ug/L		99
72) 2-Hexanone	9.202	43	12488	9.878	ug/L	#	93
73) Chlorobenzene	9.564	112	103855	10.149	ug/L		99
74) Ethylbenzene	9.606	91	162988	10.849	ug/L		99
76) p/m Xylene	9.795	106	128674	20.367	ug/L		94
77) o Xylene	10.329	106	123110	19.677	ug/L		90
78) Styrene	10.398	104	217902	19.268	ug/L	#	84
80) Bromoform	10.424	173	22009	8.529	ug/L		97
82) Isopropylbenzene	10.712	105	154267	11.284	ug/L		95
87) 1,1,2,2-Tetrachloroethane	11.273	83	37513	11.636	ug/L		99
100) 1,3-Dichlorobenzene	12.165	146	90833	10.524	ug/L		96
101) 1,4-Dichlorobenzene	12.254	146	91238	10.296	ug/L		97
104) 1,2-Dichlorobenzene	12.678	146	84314	10.062	ug/L		96
106) 1,2-Dibromo-3-chloropr...	13.454	155	5090	8.879	ug/L		93
109) 1,2,4-Trichlorobenzene	14.084	180	55488	9.528	ug/L		98
111) 1,2,3-Trichlorobenzene	14.545	180	51014	9.427	ug/L		100

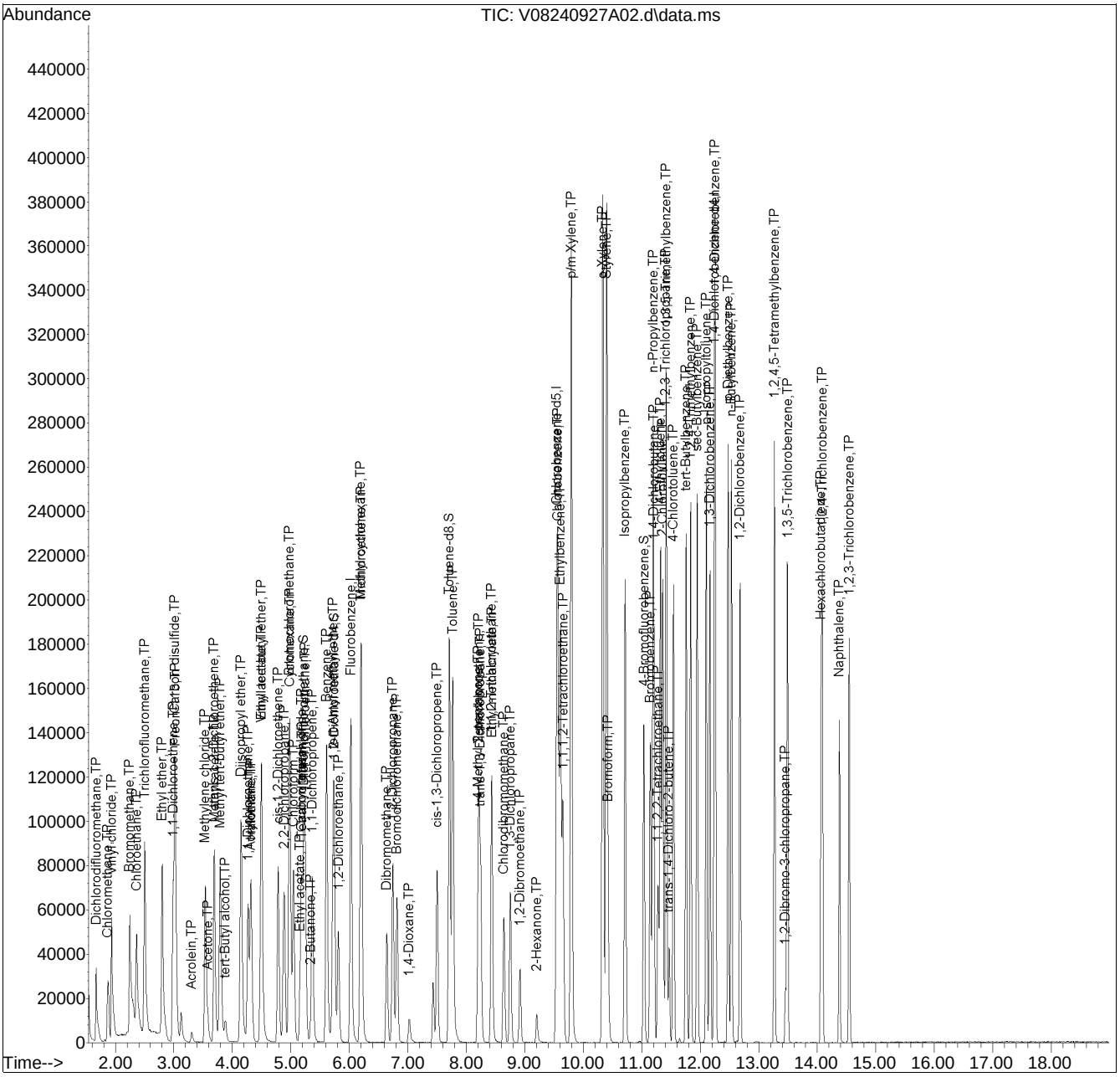
(#) = qualifier out of range (m) = manual integration (+) = signals summed

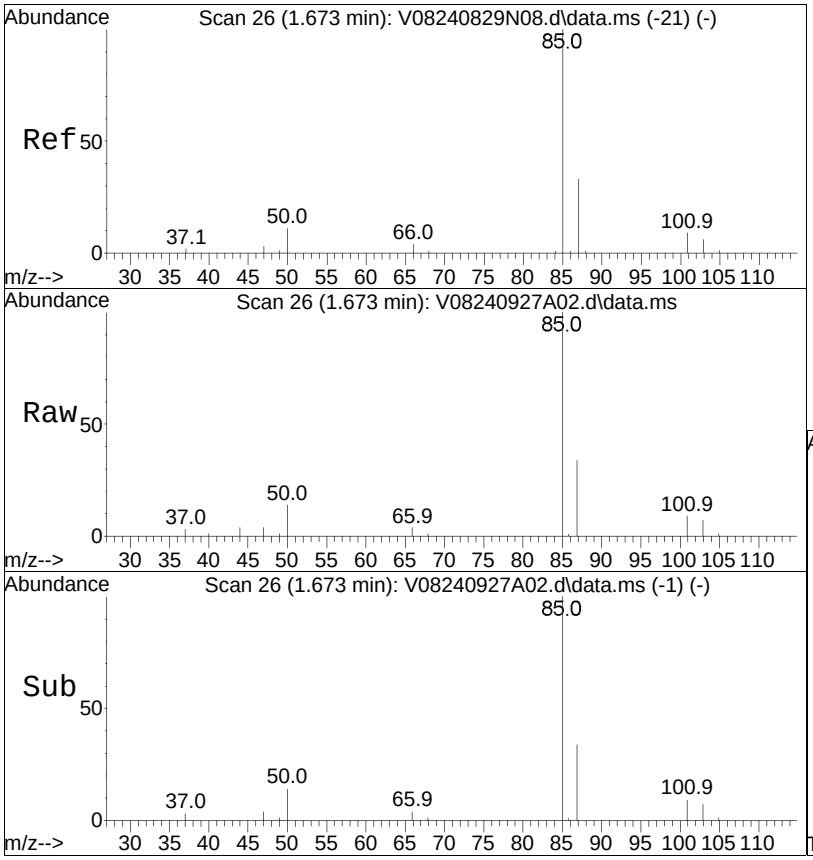
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A02.d
Acq On : 27 Sep 2024 7:18 am
Operator : VOA108:PID
Sample : WG1977231-3,31,10,10
Misc : WG1977231,ICAL21441
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 07:49:47 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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

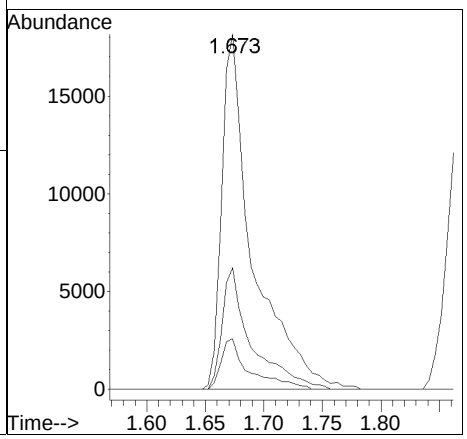


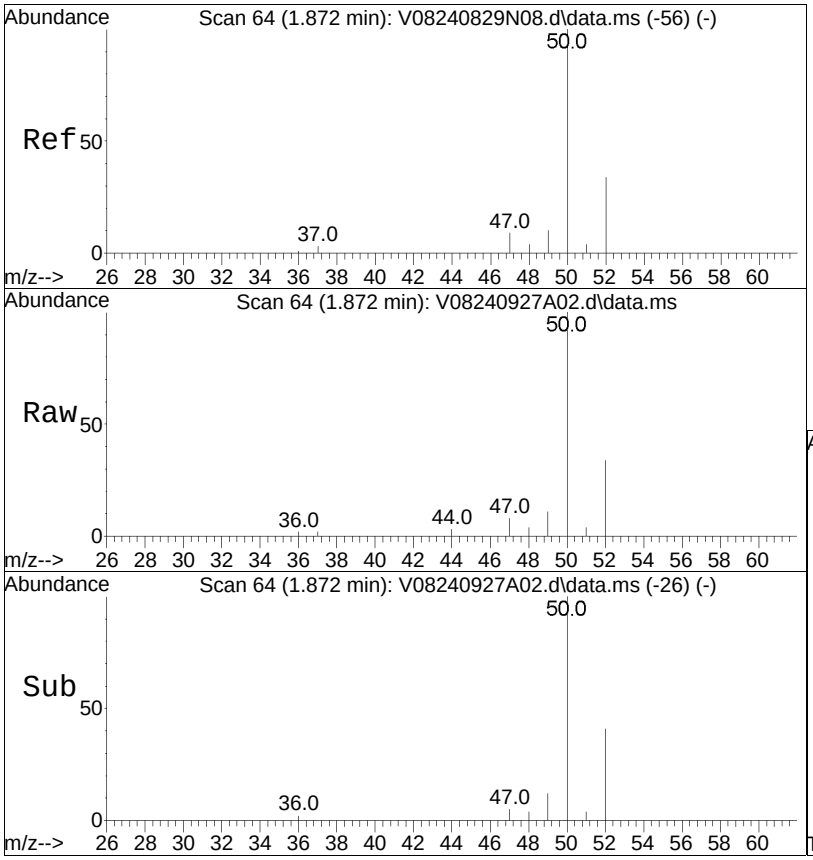


#2
Dichlorodifluoromethane
Concen: 10.11 ug/L
RT: 1.673 min Scan# 26
Delta R.T. 0.000 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 85 Resp: 33629

Ion	Ratio	Lower	Upper
85	100		
87	32.3	21.0	43.6
50	13.1	8.9	18.5

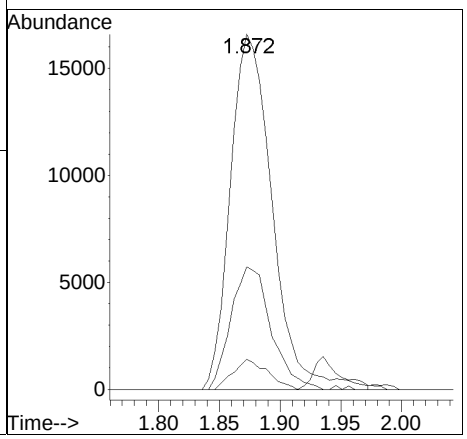


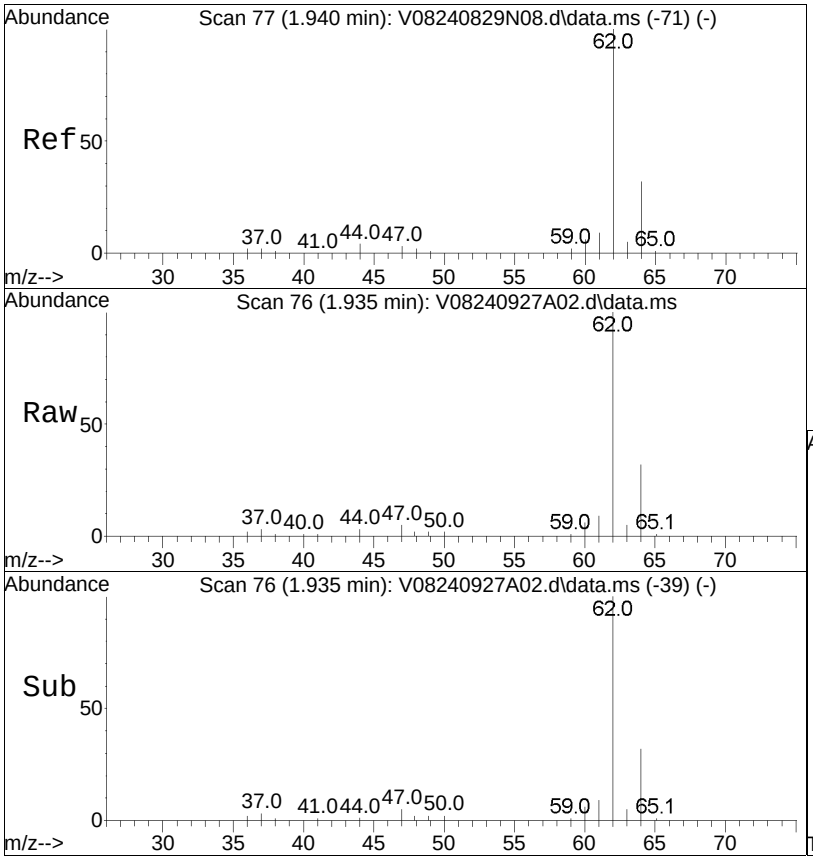


#3
Chloromethane
Concen: 11.39 ug/L
RT: 1.872 min Scan# 64
Delta R.T. 0.000 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 50 Resp: 39782

Ion	Ratio	Lower	Upper
50	100		
52	33.1	12.9	52.9
47	7.0	0.0	28.3

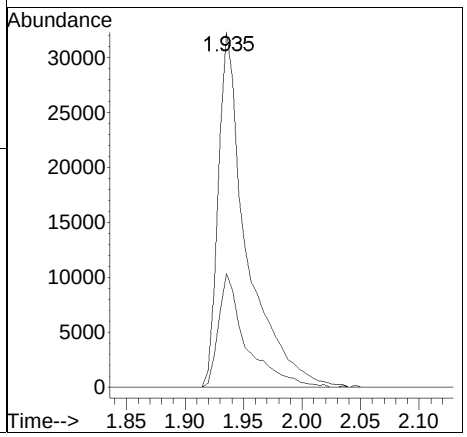


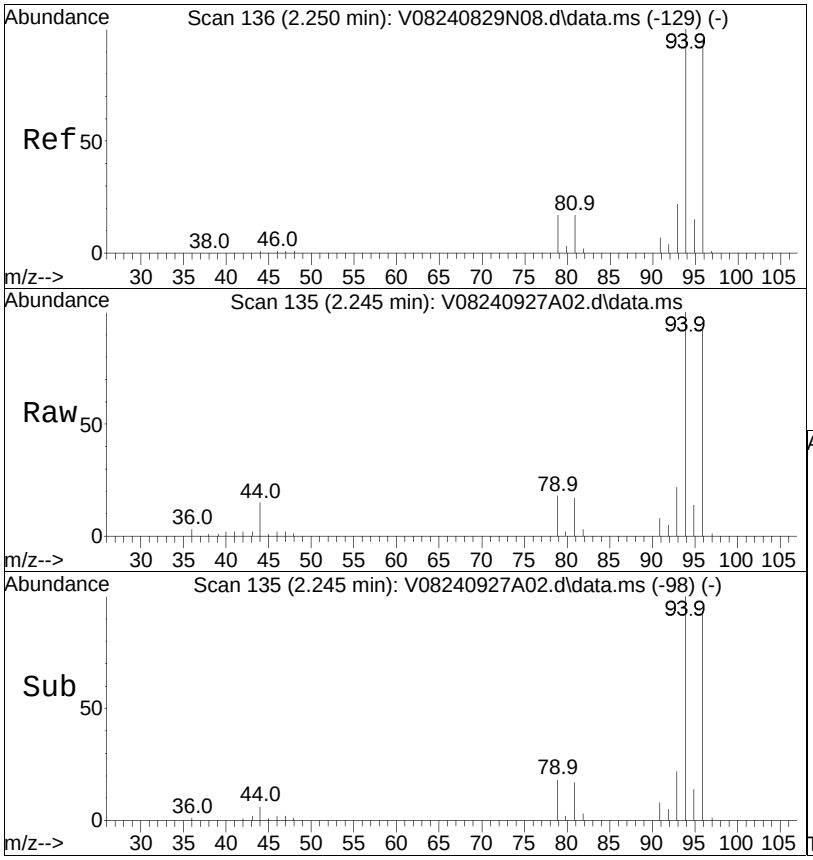


#4
Vinyl chloride
Concen: 11.09 ug/L
RT: 1.935 min Scan# 76
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 62 Resp: 54827

Ion	Ratio	Lower	Upper
62	100		
64	31.3	9.1	49.1

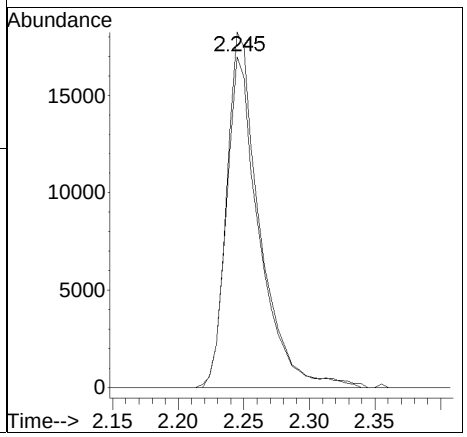


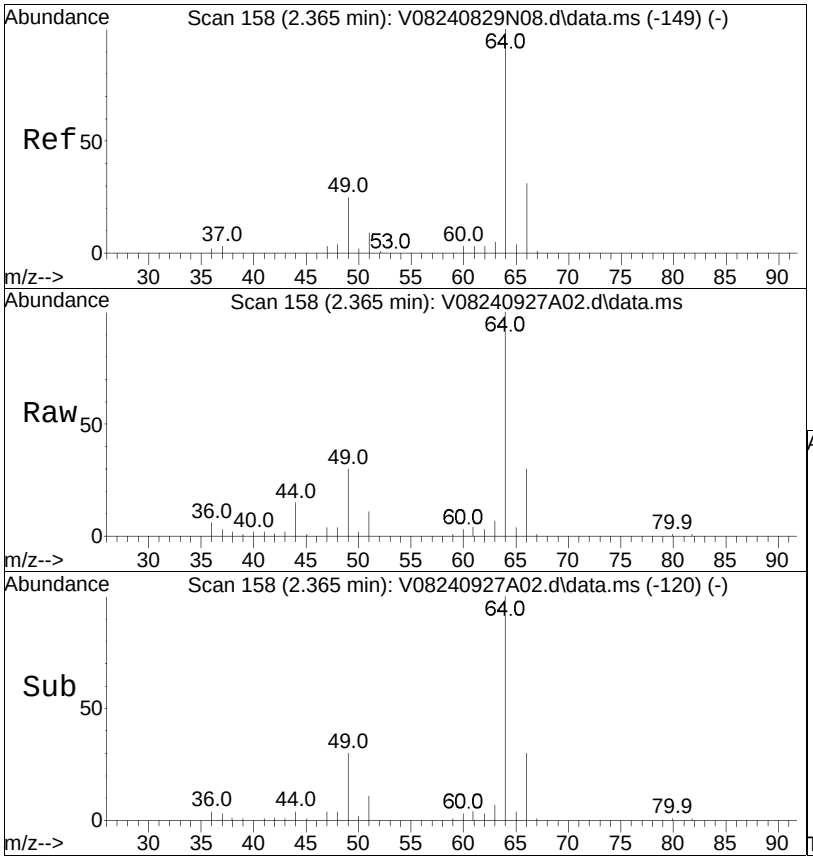


#5
Bromomethane
Concen: 7.33 ug/L
RT: 2.245 min Scan# 135
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 94 Resp: 31876

Ion	Ratio	Lower	Upper
94	100		
96	93.2	75.6	115.6

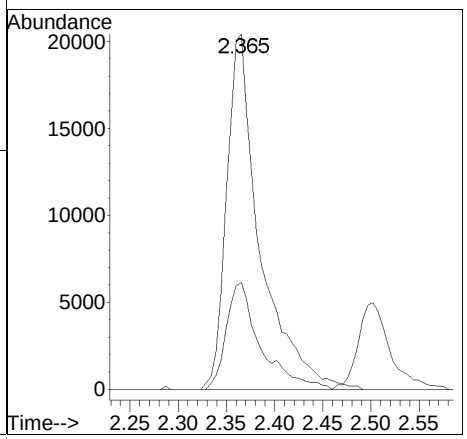


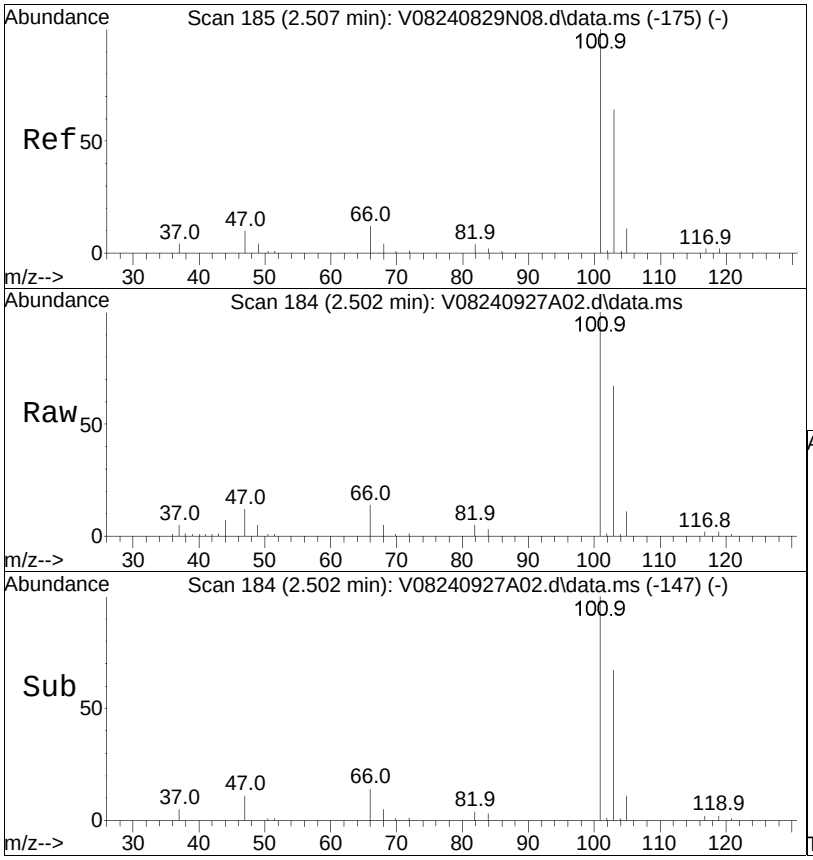


#6
Chloroethane
Concen: 10.95 ug/L
RT: 2.365 min Scan# 158
Delta R.T. 0.000 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 64 Resp: 49196

Ion	Ratio	Lower	Upper
64	100		
66	30.9	9.8	49.8

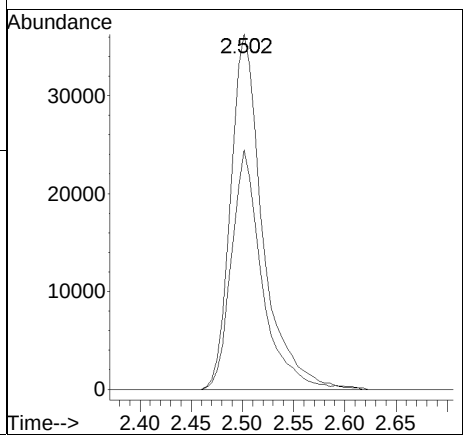


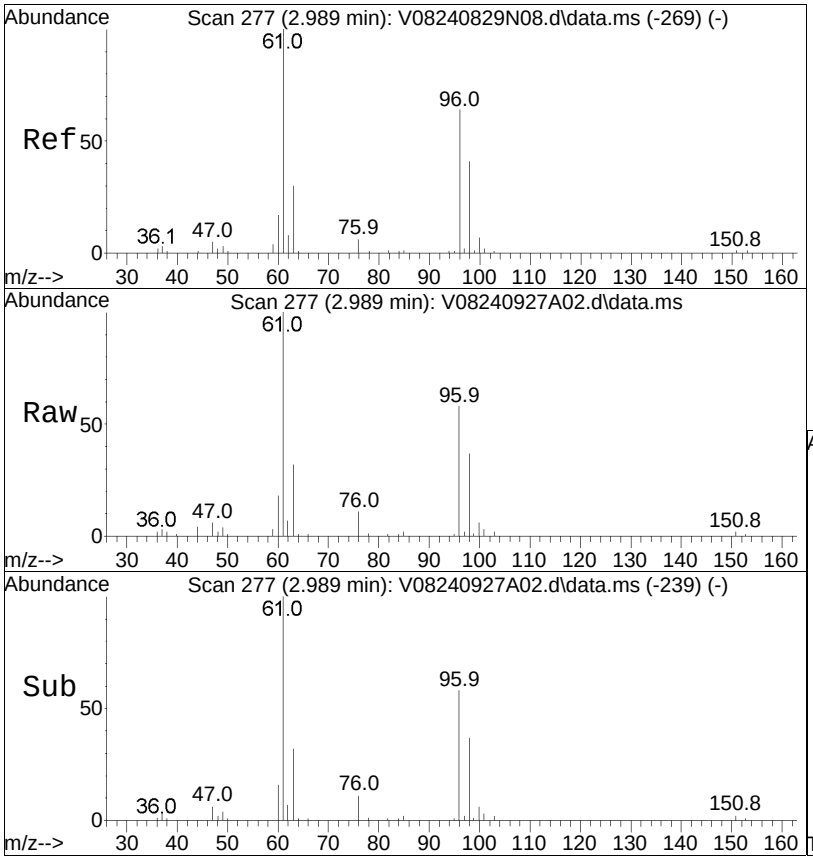


#7
Trichlorofluoromethane
Concen: 10.20 ug/L
RT: 2.502 min Scan# 184
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion:101 Resp: 79028

Ion	Ratio	Lower	Upper
101	100		
103	64.9	53.8	80.6

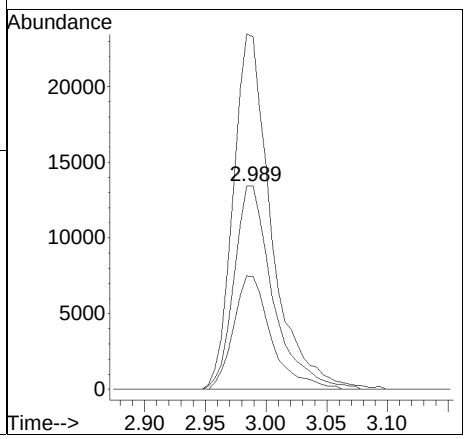


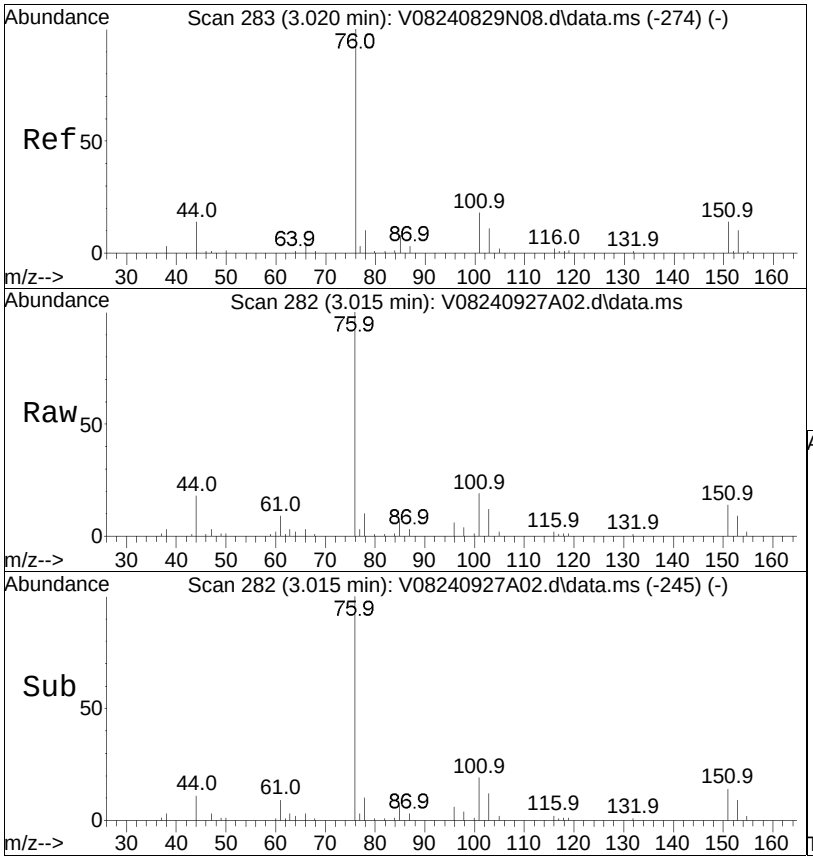


#10
1,1-Dichloroethene
Concen: 10.03 ug/L
RT: 2.989 min Scan# 277
Delta R.T. 0.000 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 96 Resp: 30006

Ion	Ratio	Lower	Upper
96	100		
61	171.6	186.1	279.1#
63	54.3	57.6	86.4#

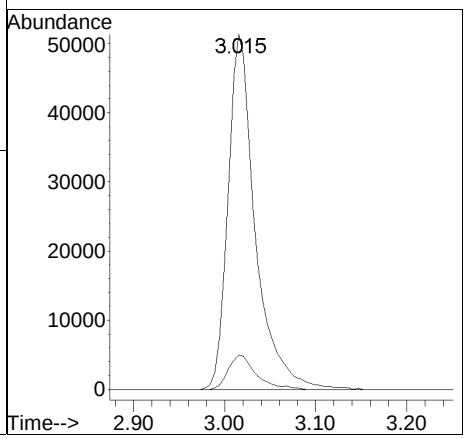


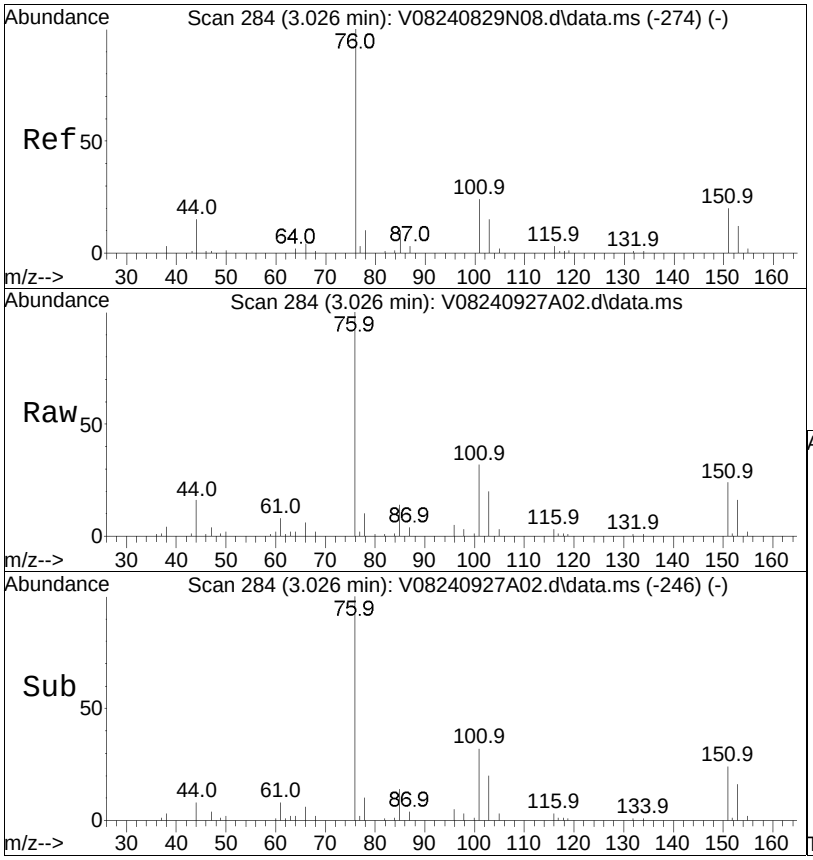


#11
Carbon disulfide
Concen: 10.49 ug/L
RT: 3.015 min Scan# 282
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 76 Resp: 107008

Ion	Ratio	Lower	Upper
76	100		
78	9.8	5.7	11.7

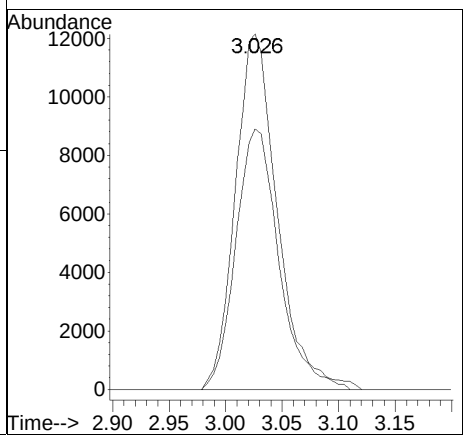


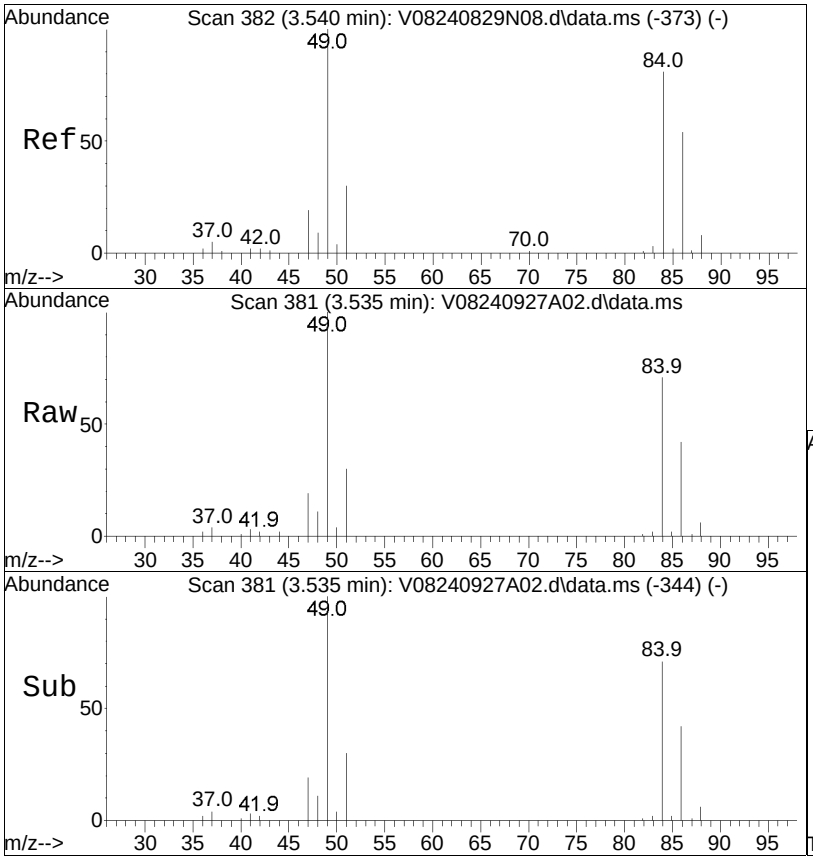


#12
Freon-113
Concen: 10.72 ug/L
RT: 3.026 min Scan# 284
Delta R.T. -0.000 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion:101 Resp: 31420

Ion	Ratio	Lower	Upper
101	100		
151	75.2	59.8	89.8

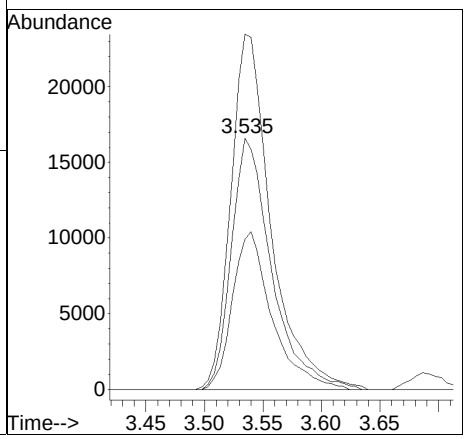


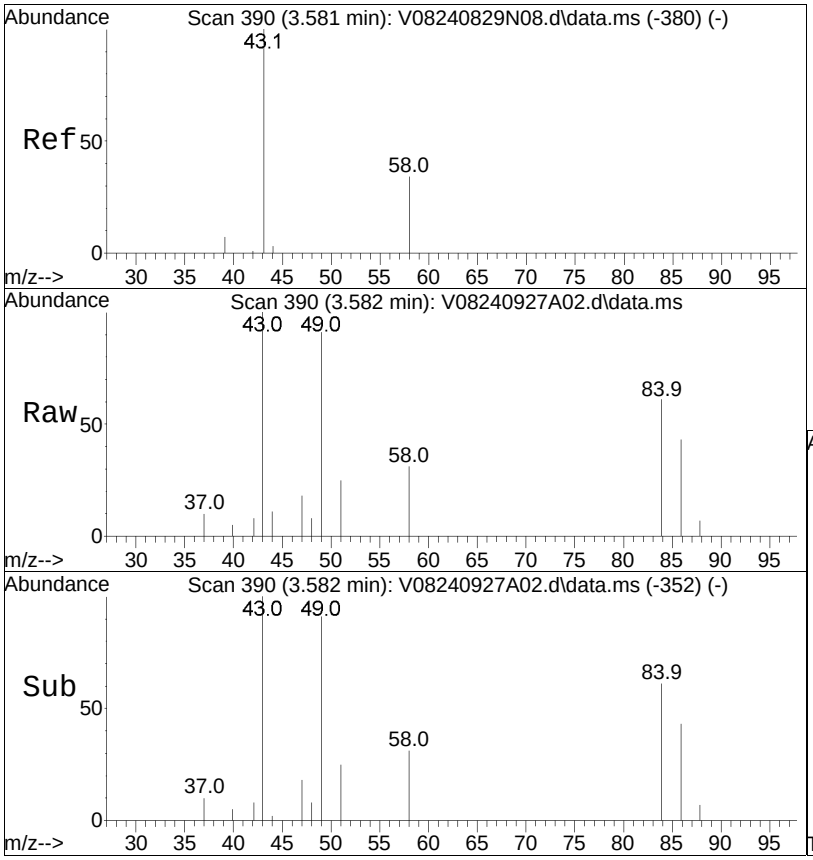


#15
Methylene chloride
Concen: 10.12 ug/L
RT: 3.535 min Scan# 381
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 84 Resp: 39761

Ion	Ratio	Lower	Upper
84	100		
86	61.8	40.4	83.8
49	141.5	120.0	249.2

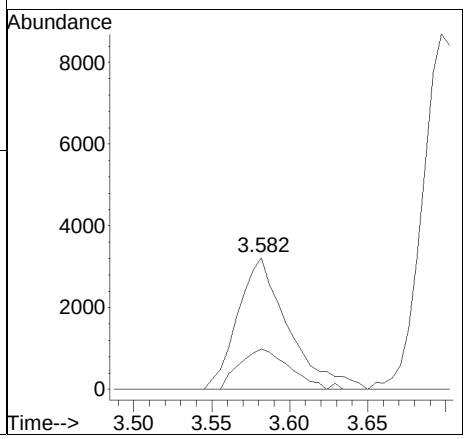


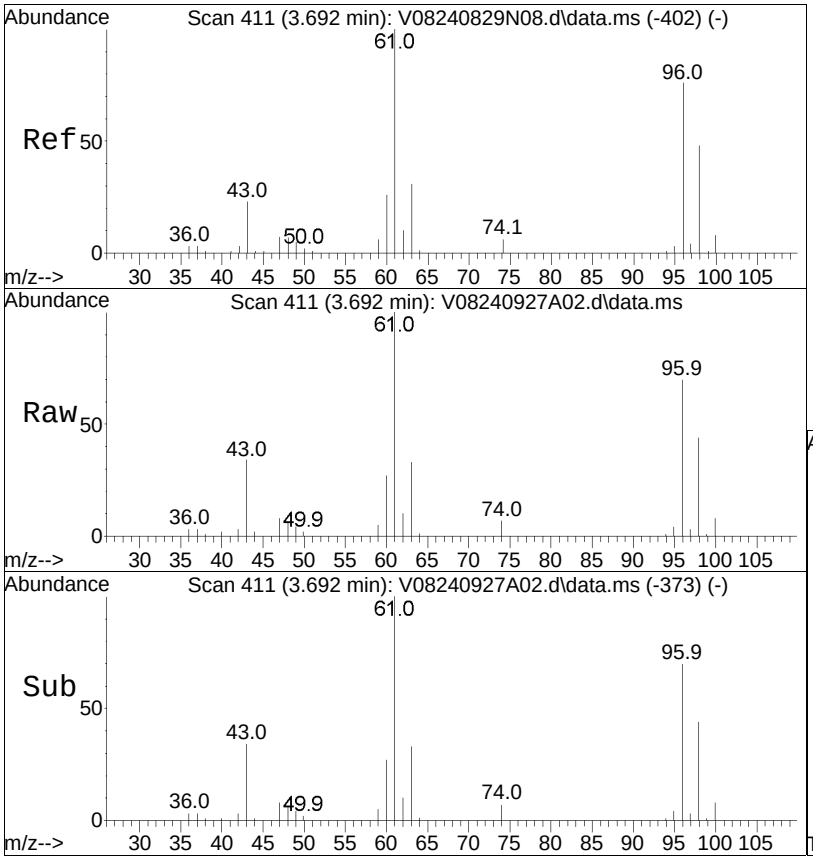


#17
Acetone
Concen: 10.32 ug/L
RT: 3.582 min Scan# 390
Delta R.T. 0.001 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 43 Resp: 7252

Ion	Ratio	Lower	Upper
43	100		
58	31.0	24.2	36.4

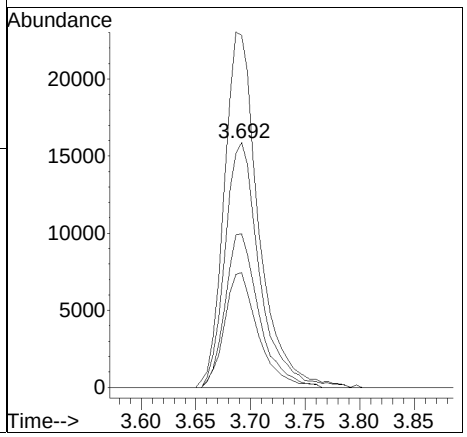


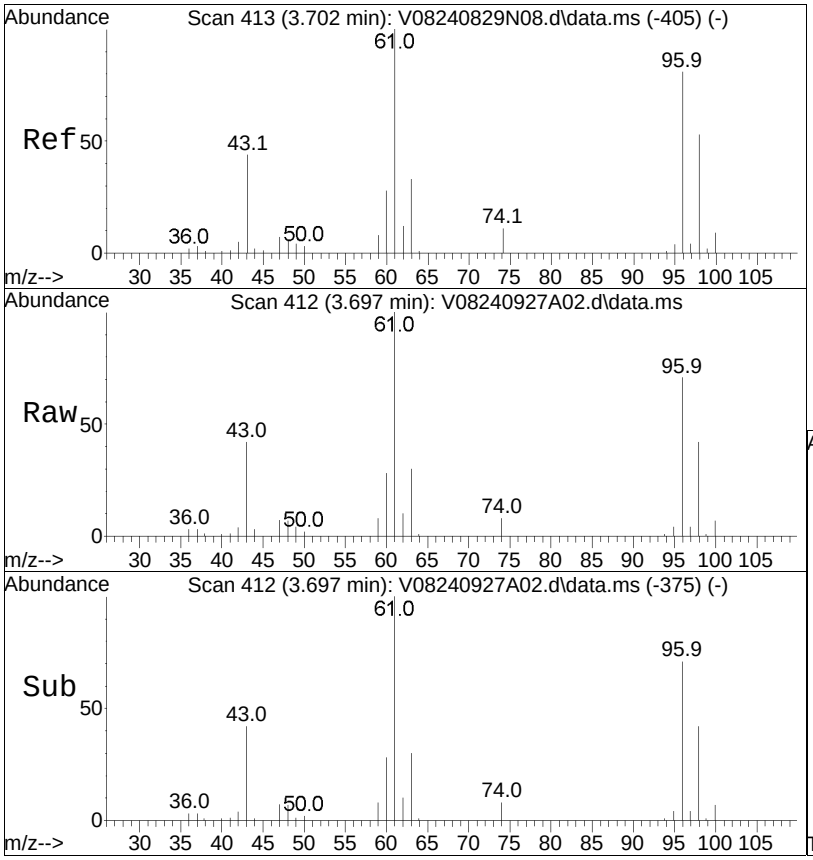


#18
trans-1,2-Dichloroethene
Concen: 9.63 ug/L
RT: 3.692 min Scan# 411
Delta R.T. -0.000 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 96 Resp: 35035

Ion	Ratio	Lower	Upper
96	100		
61	143.9	124.0	257.6
98	61.2	41.2	85.6
63	45.6	38.4	79.7

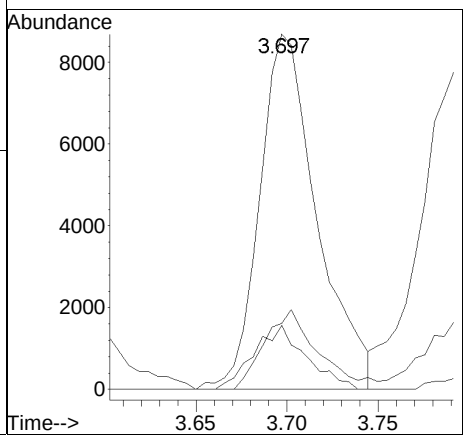


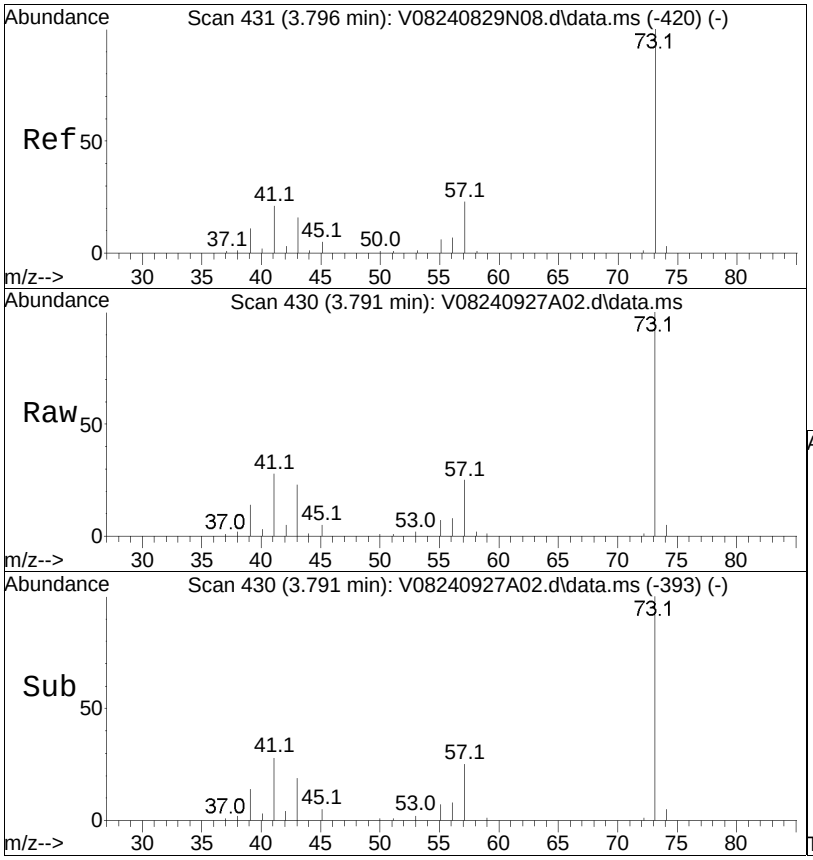


#19
Methyl acetate
Concen: 11.11 ug/L
RT: 3.697 min Scan# 412
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 43 Resp: 19064

Ion	Ratio	Lower	Upper
43	100		
74	21.1	14.2	21.4
59	16.5	5.0	7.6#

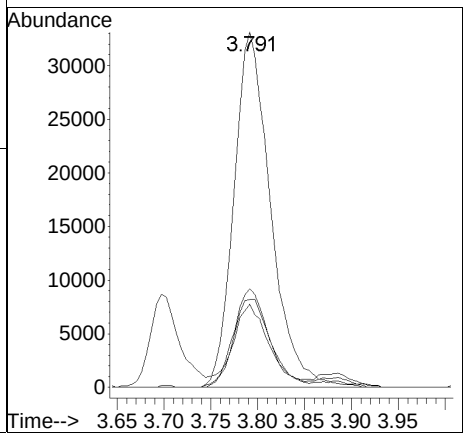


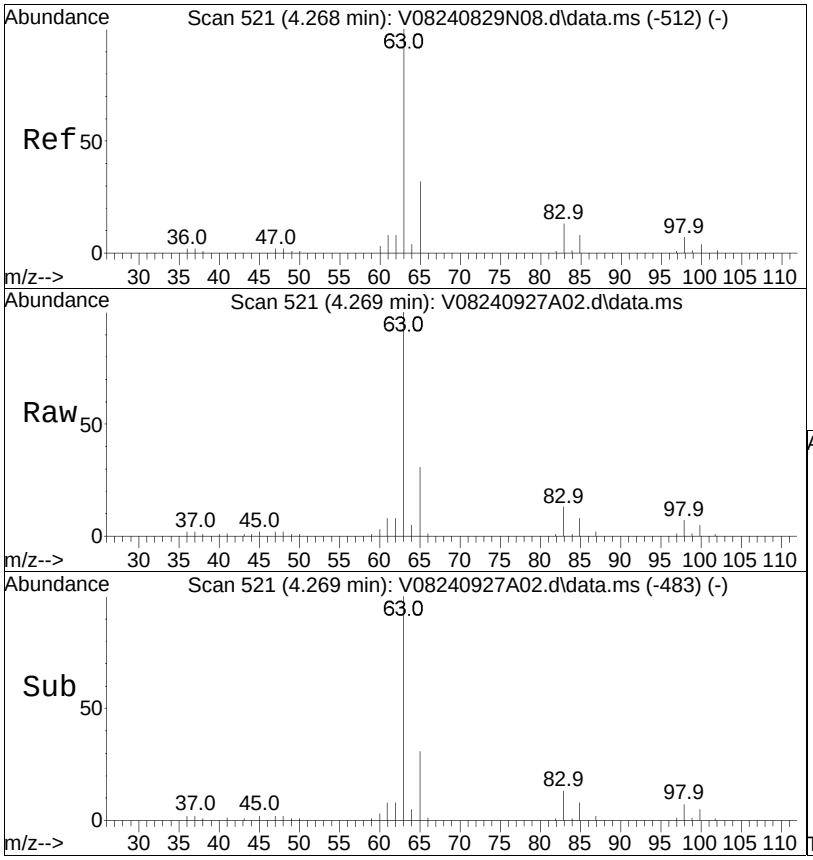


#20
Methyl tert-butyl ether
Concen: 9.03 ug/L
RT: 3.791 min Scan# 430
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 73 Resp: 90188

Ion	Ratio	Lower	Upper
73	100		
57	25.2	17.5	36.3
43	23.0	15.3	31.9
41	27.4	15.3	31.7

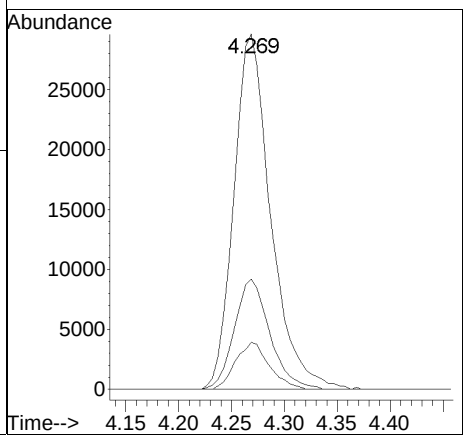


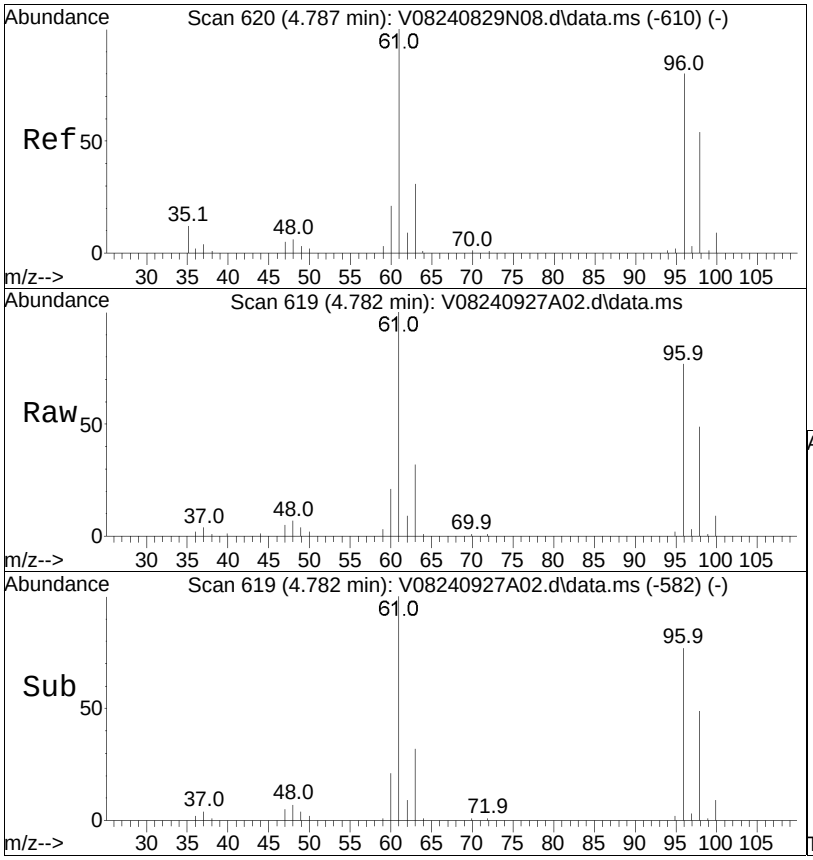


#23
1,1-Dichloroethane
Concen: 11.38 ug/L
RT: 4.269 min Scan# 521
Delta R.T. 0.001 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 63 Resp: 71970

Ion	Ratio	Lower	Upper
63	100		
65	29.8	11.0	51.0
83	12.2	0.0	31.8

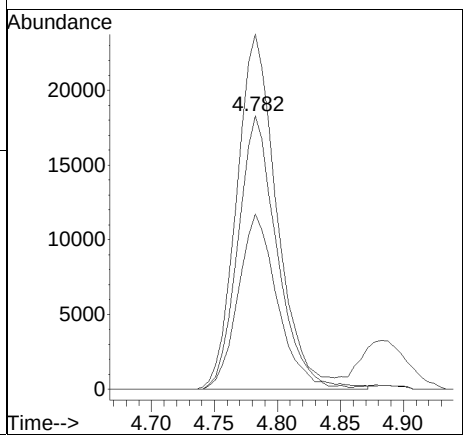


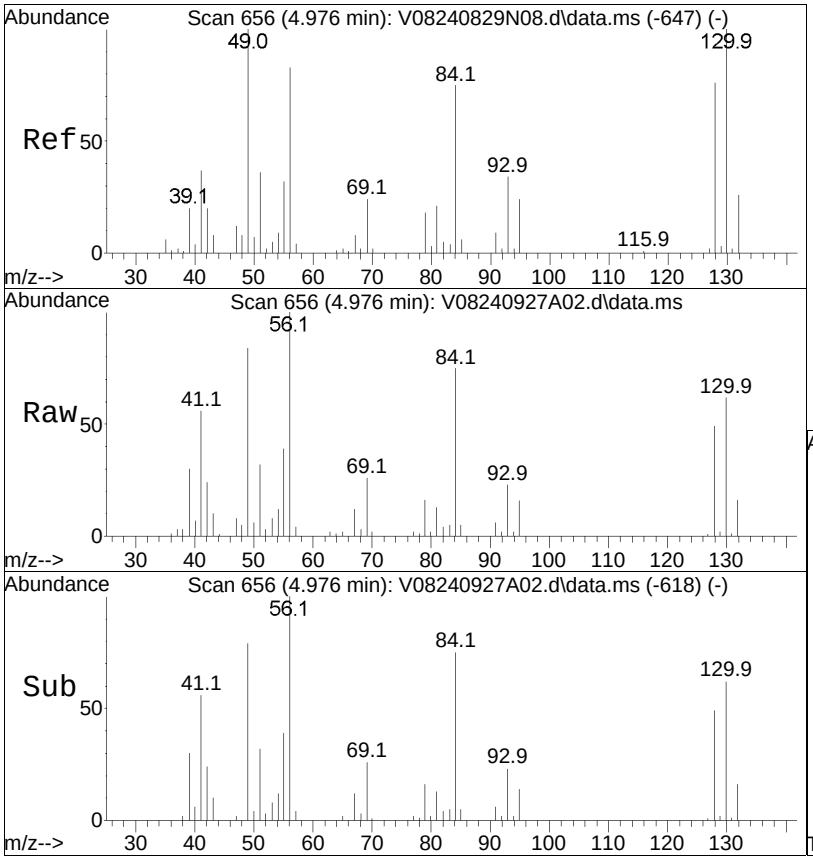


#28
cis-1,2-Dichloroethene
Concen: 9.49 ug/L
RT: 4.782 min Scan# 619
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 96 Resp: 39712

Ion	Ratio	Lower	Upper
96	100		
61	132.6	149.4	224.2#
98	64.4	53.4	80.2

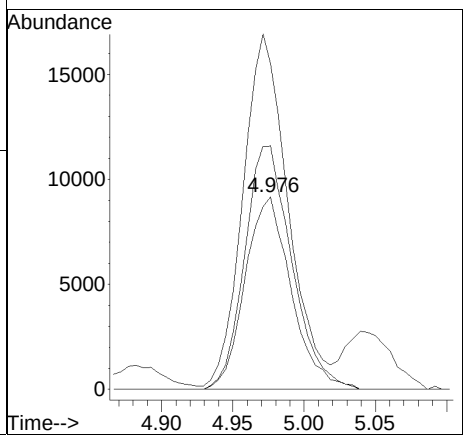


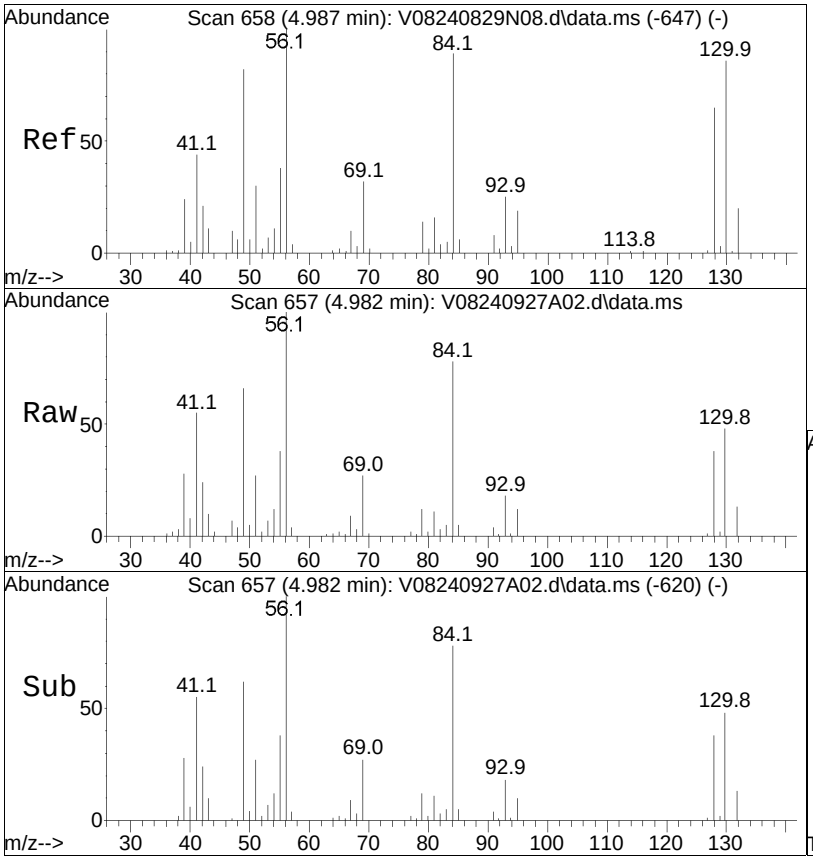


#30
Bromochloromethane
Concen: 8.64 ug/L
RT: 4.976 min Scan# 656
Delta R.T. 0.000 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion:128 Resp: 20656

Ion	Ratio	Lower	Upper
128	100		
49	181.2	223.0	334.4#
130	129.4	111.4	167.0

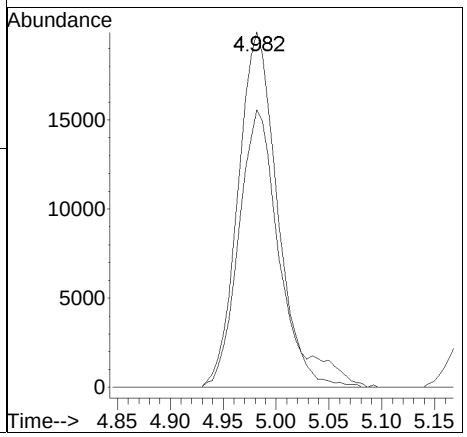


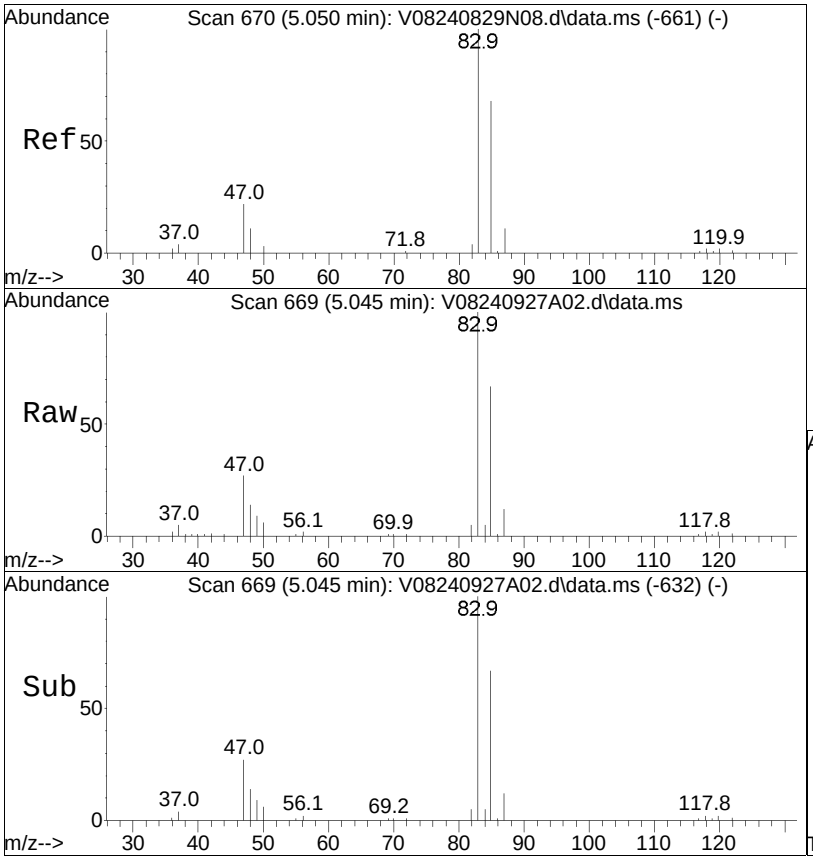


#31
Cyclohexane
Concen: 15.94 ug/L
RT: 4.982 min Scan# 657
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 56 Resp: 51494

Ion	Ratio	Lower	Upper
56	100		
84	83.6	38.4	79.8#

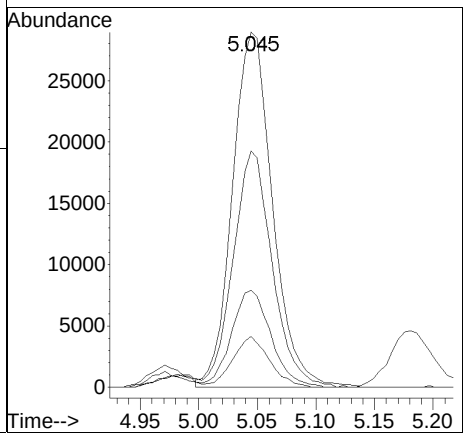


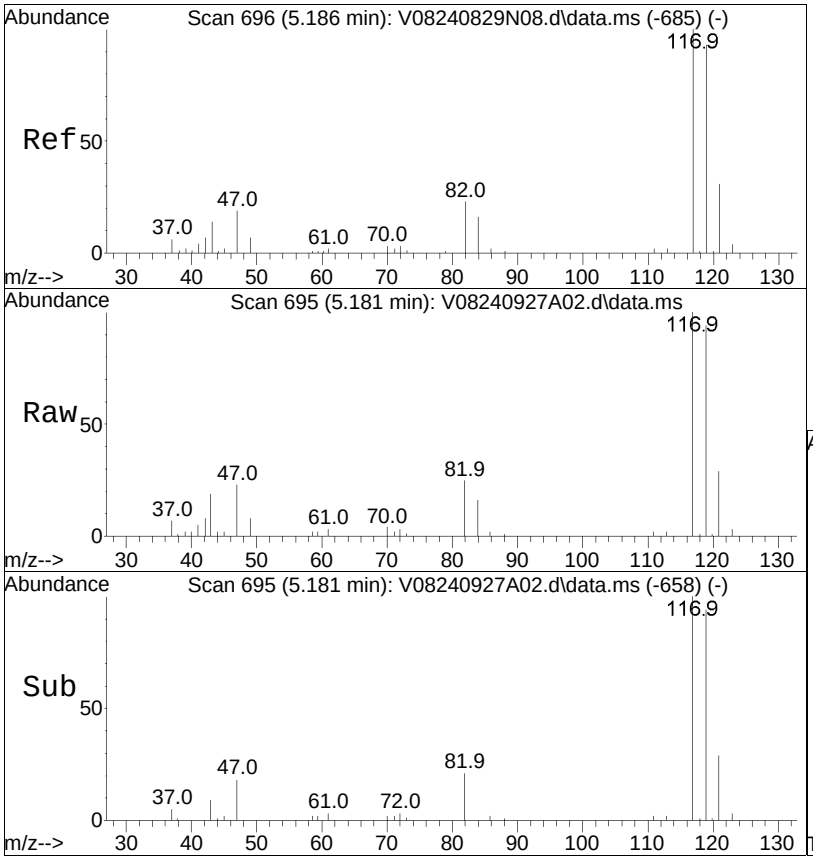


#32
Chloroform
Concen: 10.26 ug/L
RT: 5.045 min Scan# 669
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 83 Resp: 69196

Ion	Ratio	Lower	Upper
83	100		
85	64.8	41.5	86.1
47	26.9	19.0	39.4
48	13.2	9.9	20.5

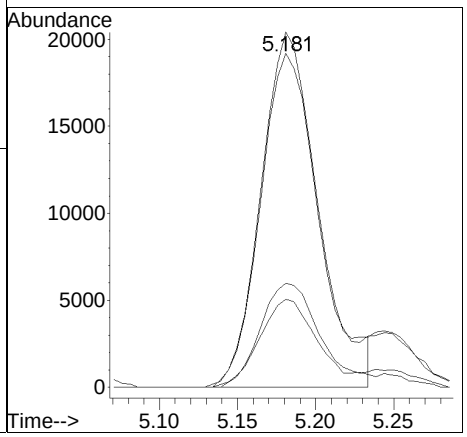


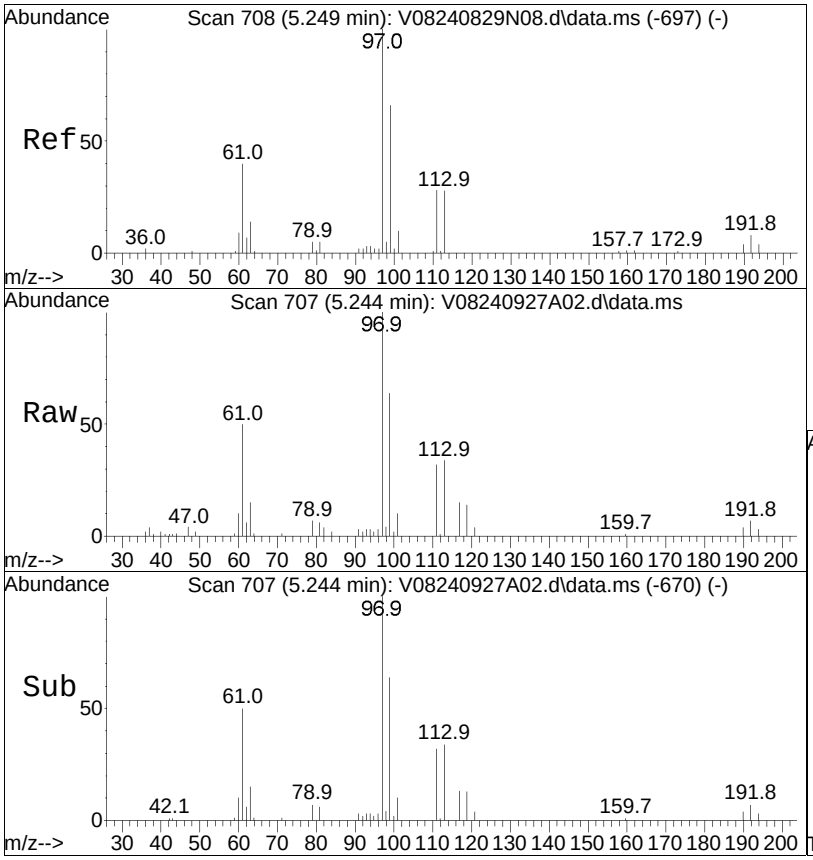


#34
Carbon tetrachloride
Concen: 9.92 ug/L
RT: 5.181 min Scan# 695
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion:117 Resp: 52180

Ion	Ratio	Lower	Upper
117	100		
119	94.0	62.4	129.6
121	30.1	19.5	40.5
82	26.2	17.0	35.4

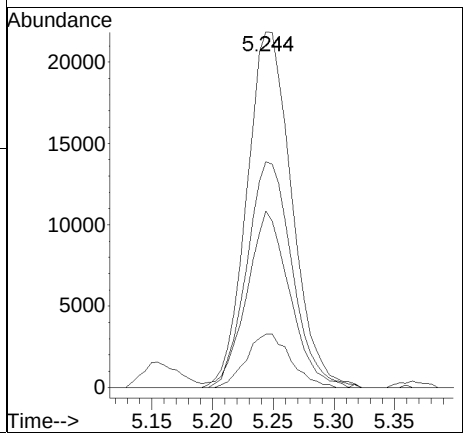


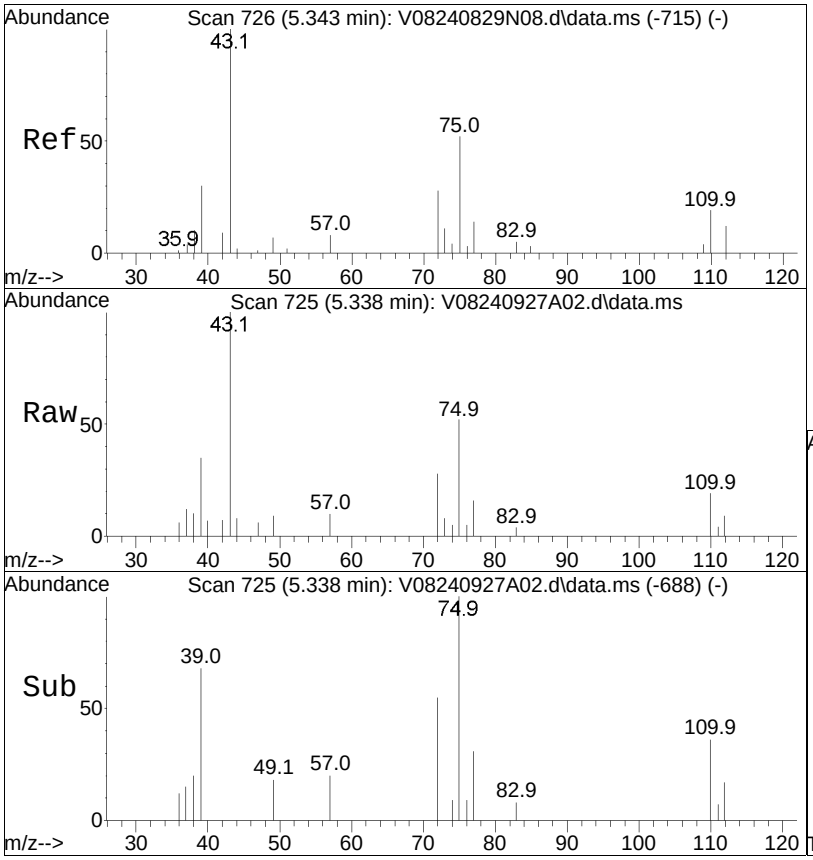


#37
1,1,1-Trichloroethane
Concen: 10.03 ug/L
RT: 5.244 min Scan# 707
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 97 Resp: 56406

Ion	Ratio	Lower	Upper
97	100		
99	63.7	40.7	84.5
61	47.7	35.4	73.4
63	14.7	5.0	10.4#

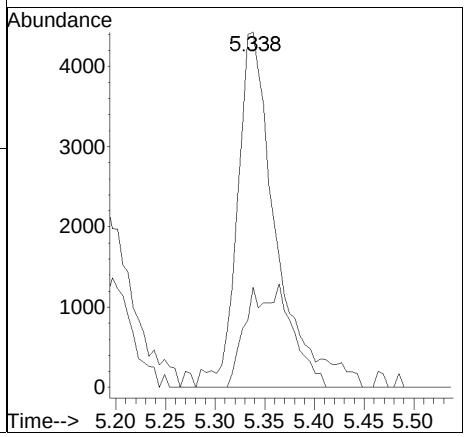


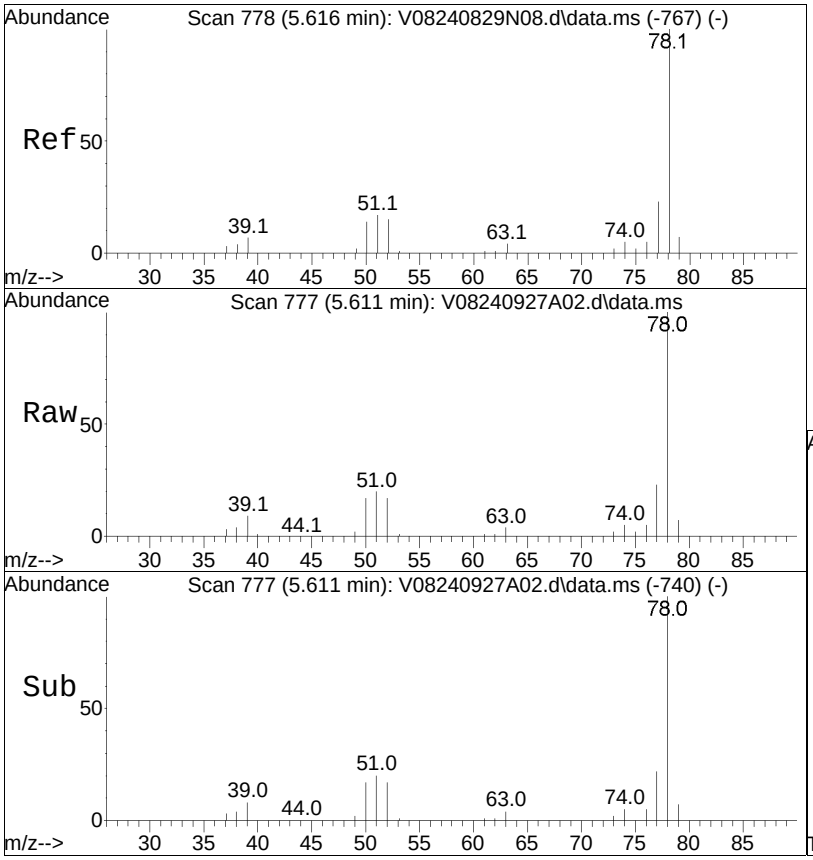


#39
2-Butanone
Concen: 11.79 ug/L
RT: 5.338 min Scan# 725
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 43 Resp: 12026

Ion	Ratio	Lower	Upper
43	100		
72	17.2	10.9	16.3#

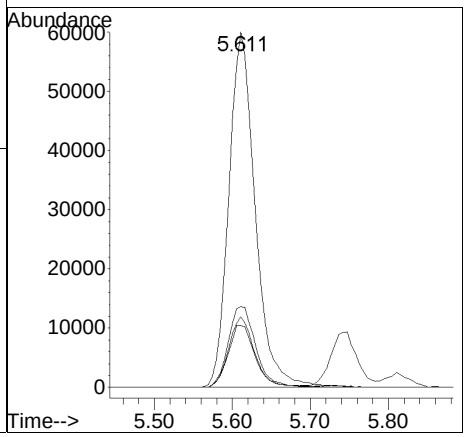


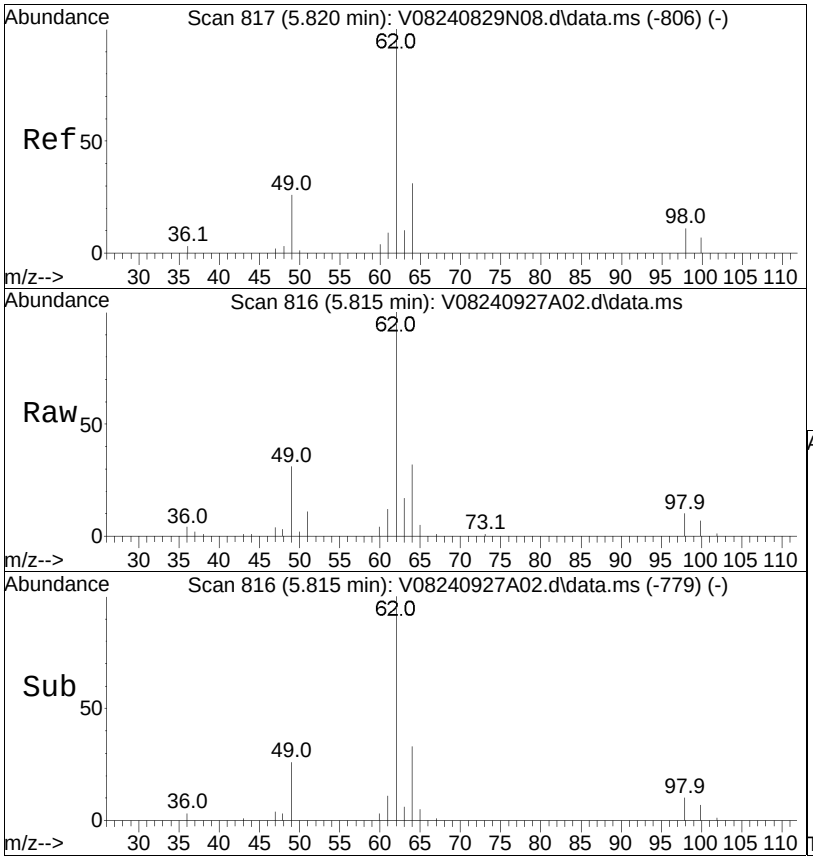


#41
Benzene
Concen: 10.00 ug/L
RT: 5.611 min Scan# 777
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 78 Resp: 141334

Ion	Ratio	Lower	Upper
78	100		
77	23.9	15.7	32.7
51	19.4	16.0	33.2
52	18.0	15.3	31.9

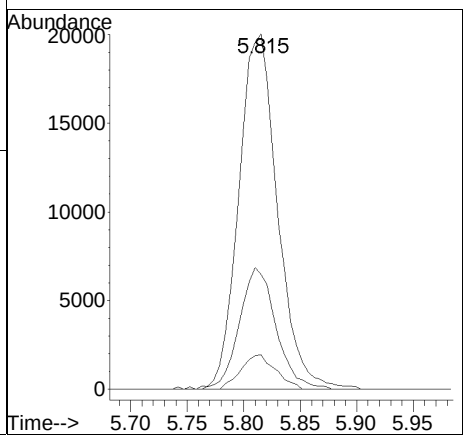


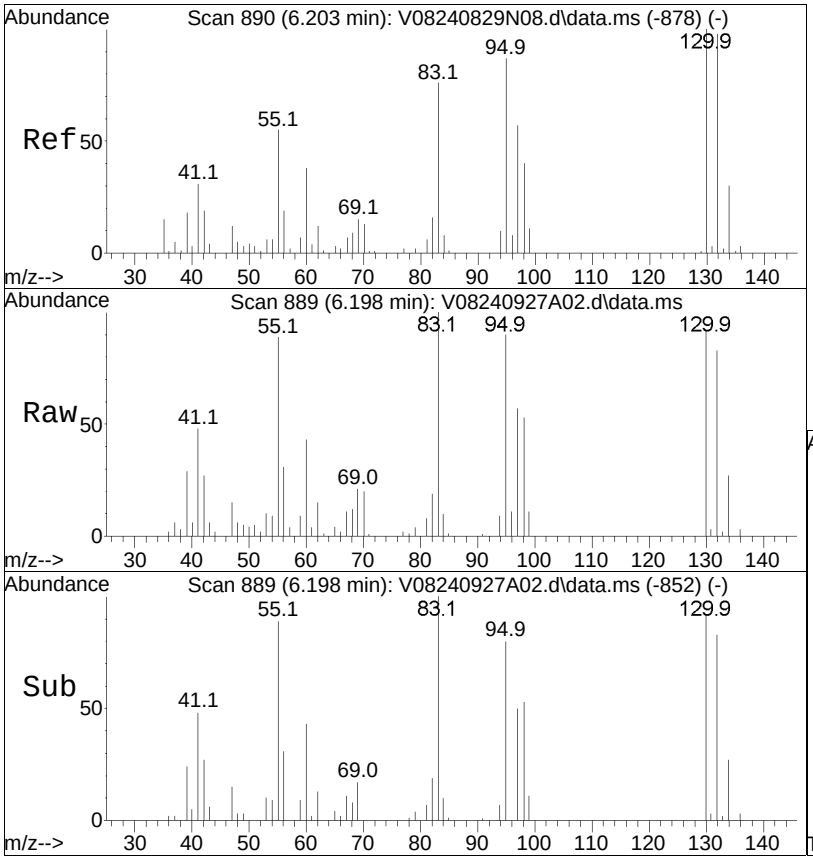


#44
1,2-Dichloroethane
Concen: 10.43 ug/L
RT: 5.815 min Scan# 816
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 62 Resp: 47804

Ion	Ratio	Lower	Upper
62	100		
64	32.7	11.2	51.2
98	8.8	0.0	26.1

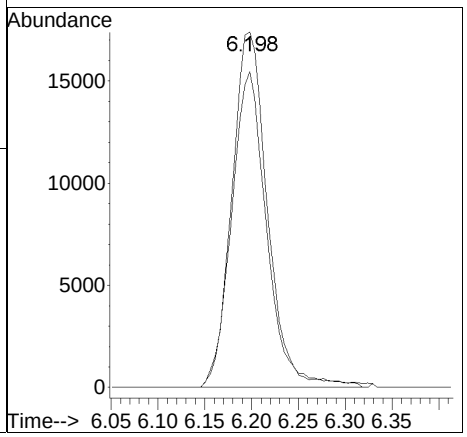


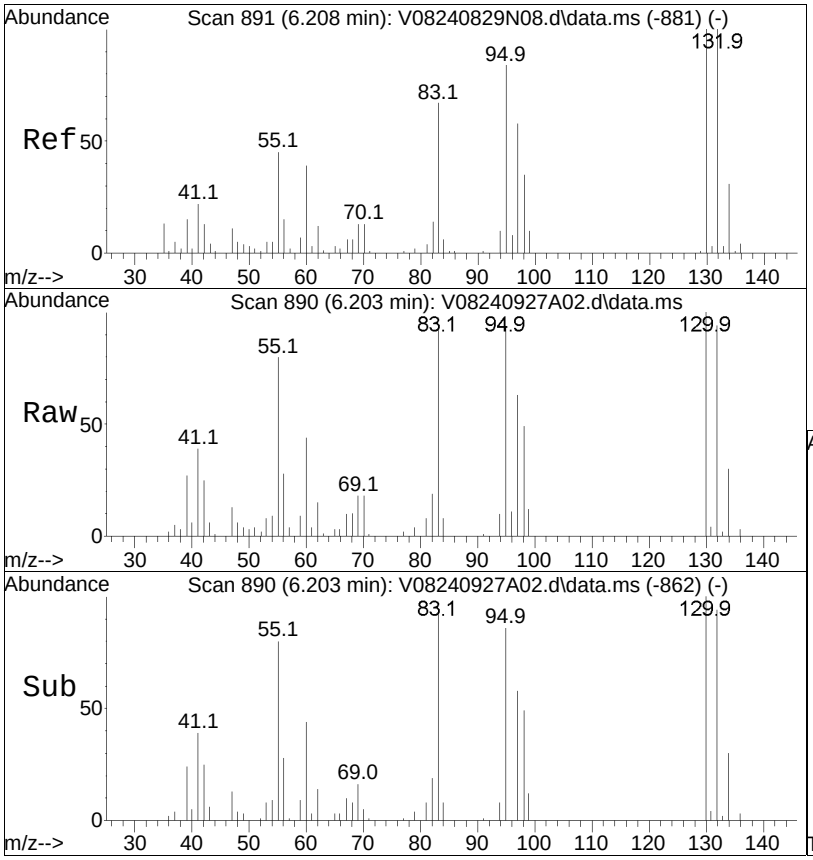


#47
Methyl cyclohexane
Concen: 15.06 ug/L
RT: 6.198 min Scan# 889
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 83 Resp: 46330

Ion	Ratio	Lower	Upper
83	100		
55	86.9	88.3	132.5#

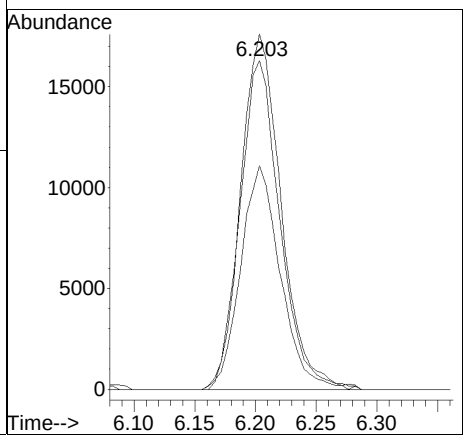


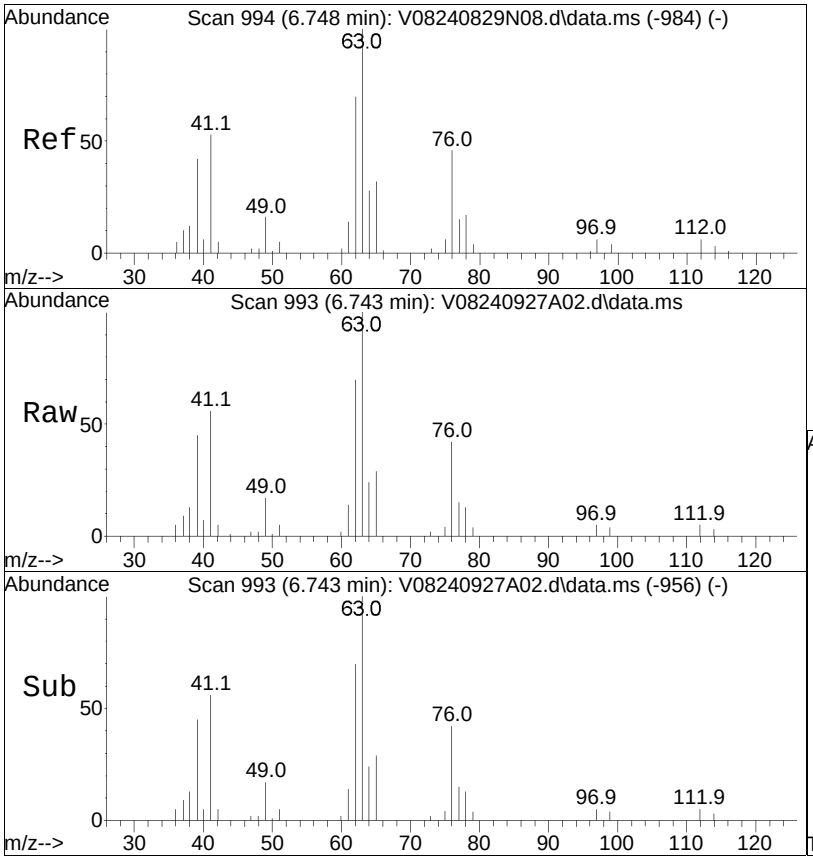


#48
Trichloroethene
Concen: 9.65 ug/L
RT: 6.203 min Scan# 890
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 95 Resp: 37439

Ion	Ratio	Lower	Upper
95	100		
97	67.6	55.5	83.3
130	108.5	76.6	115.0

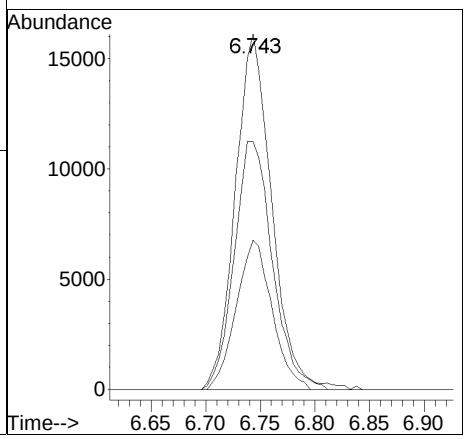


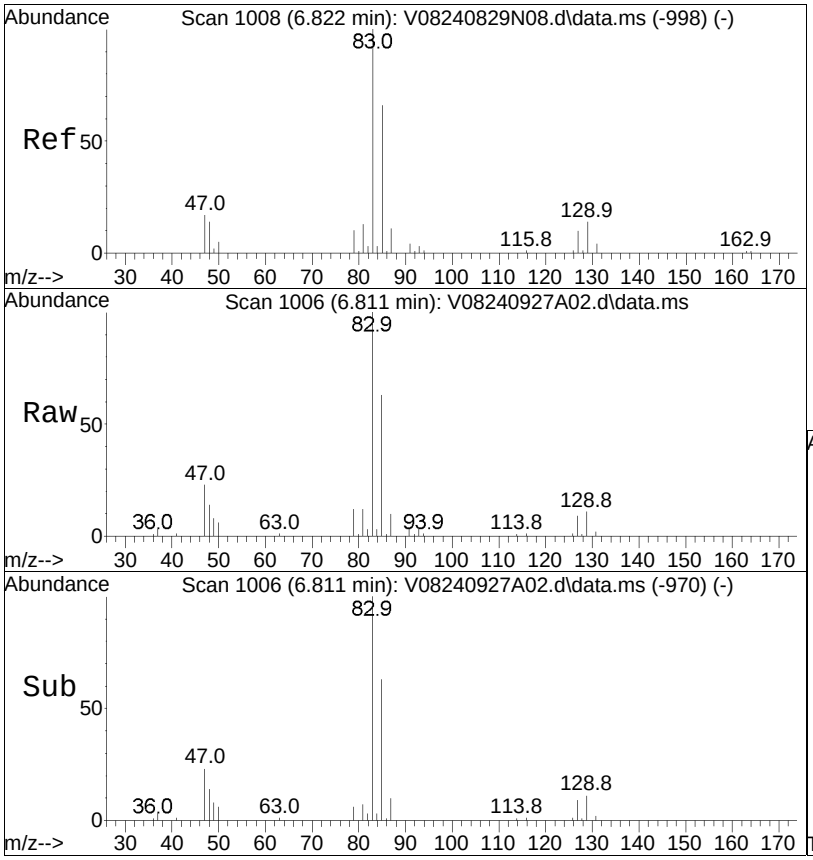


#51
1,2-Dichloropropane
Concen: 10.61 ug/L
RT: 6.743 min Scan# 993
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 63 Resp: 37408

Ion	Ratio	Lower	Upper
63	100		
62	73.0	58.6	87.8
76	41.3	38.0	57.0

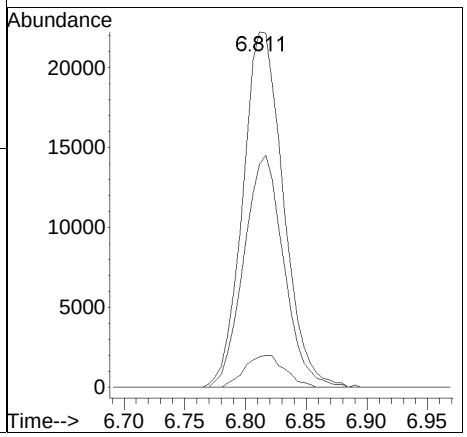


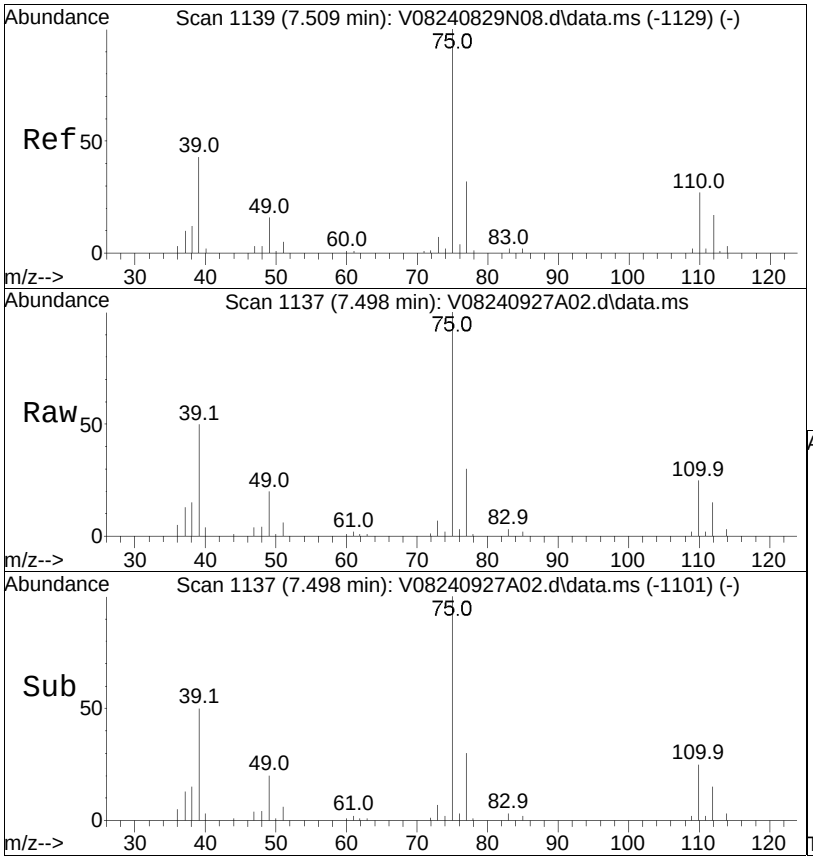


#54
Bromodichloromethane
Concen: 9.81 ug/L
RT: 6.811 min Scan# 1006
Delta R.T. -0.011 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 83 Resp: 51843

Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.3	78.5
127	9.0	6.2	9.4

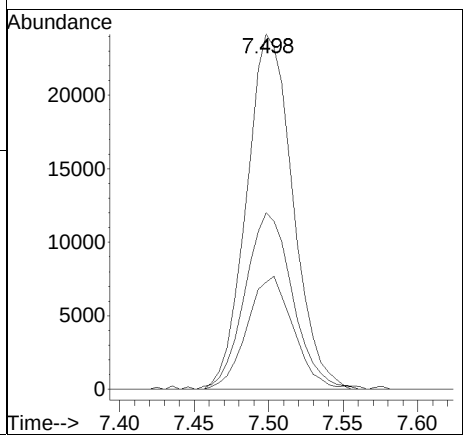


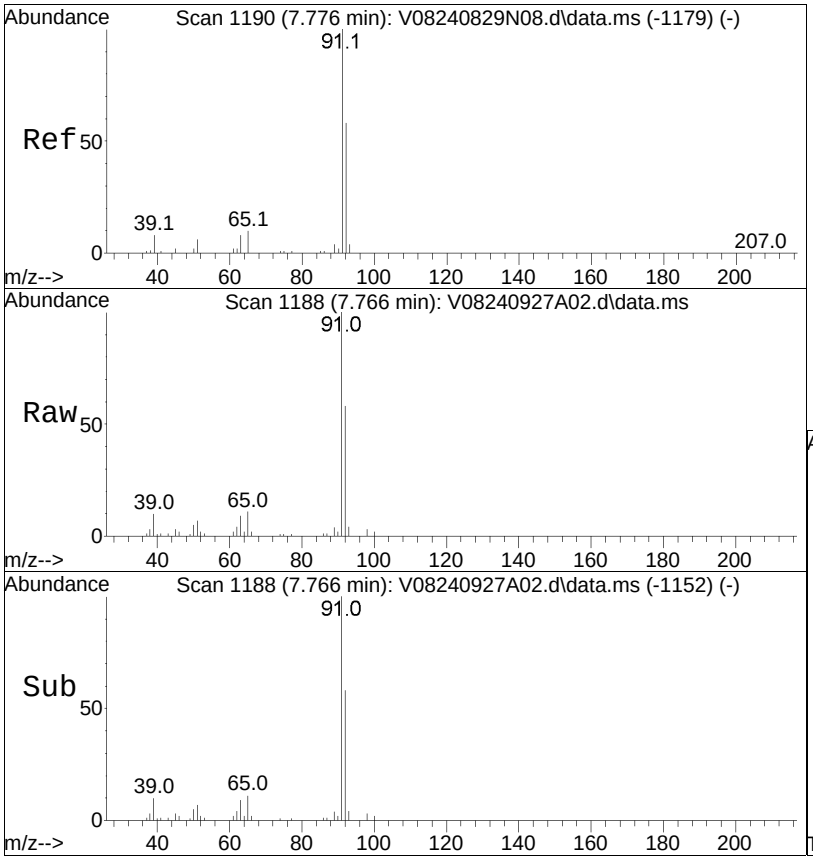


#58
cis-1,3-Dichloropropene
Concen: 9.35 ug/L
RT: 7.498 min Scan# 1137
Delta R.T. -0.011 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 75 Resp: 52382

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.0	37.4
39	50.9	50.1	75.1

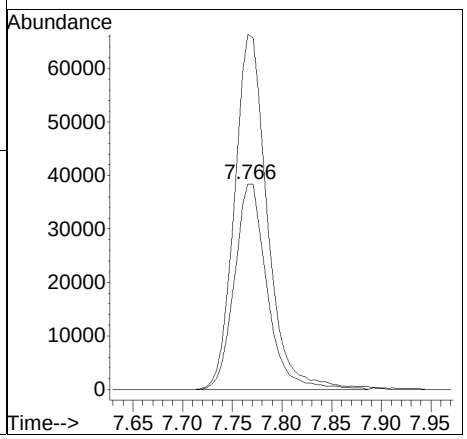


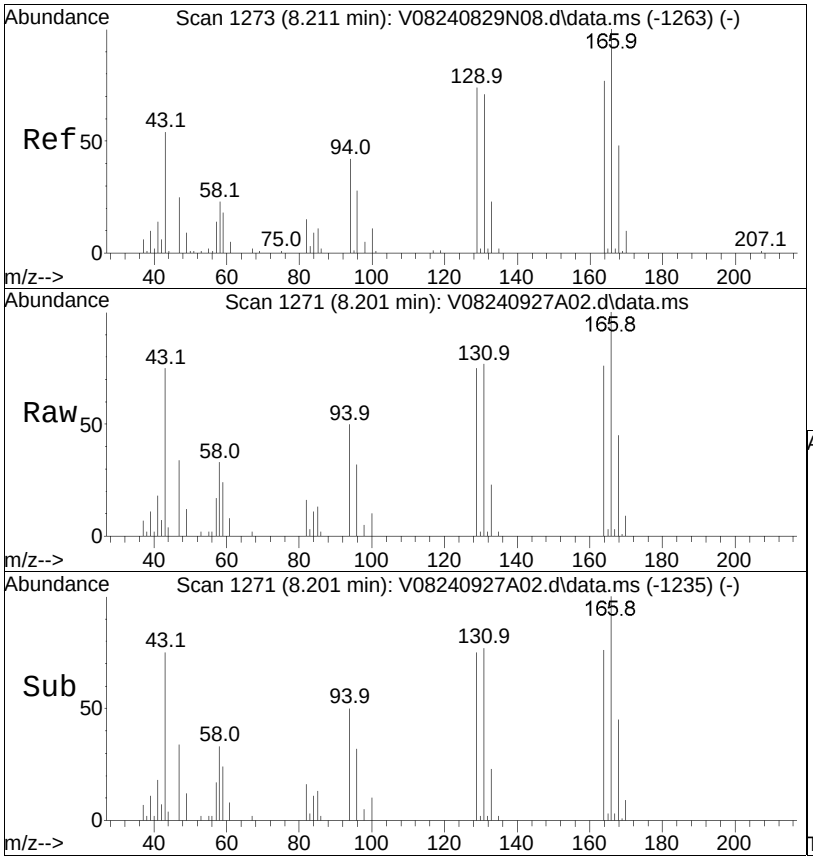


#61
Toluene
Concen: 10.67 ug/L
RT: 7.766 min Scan# 1188
Delta R.T. -0.010 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 92 Resp: 88083

Ion	Ratio	Lower	Upper
92	100		
91	174.4	139.8	209.6

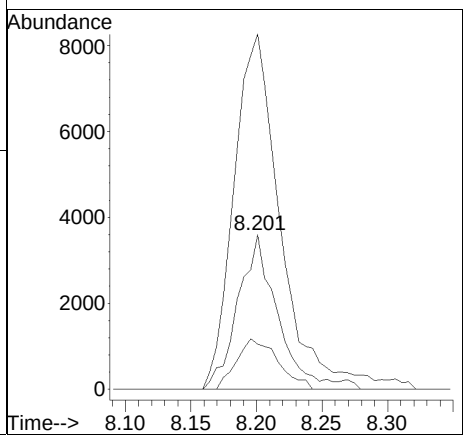


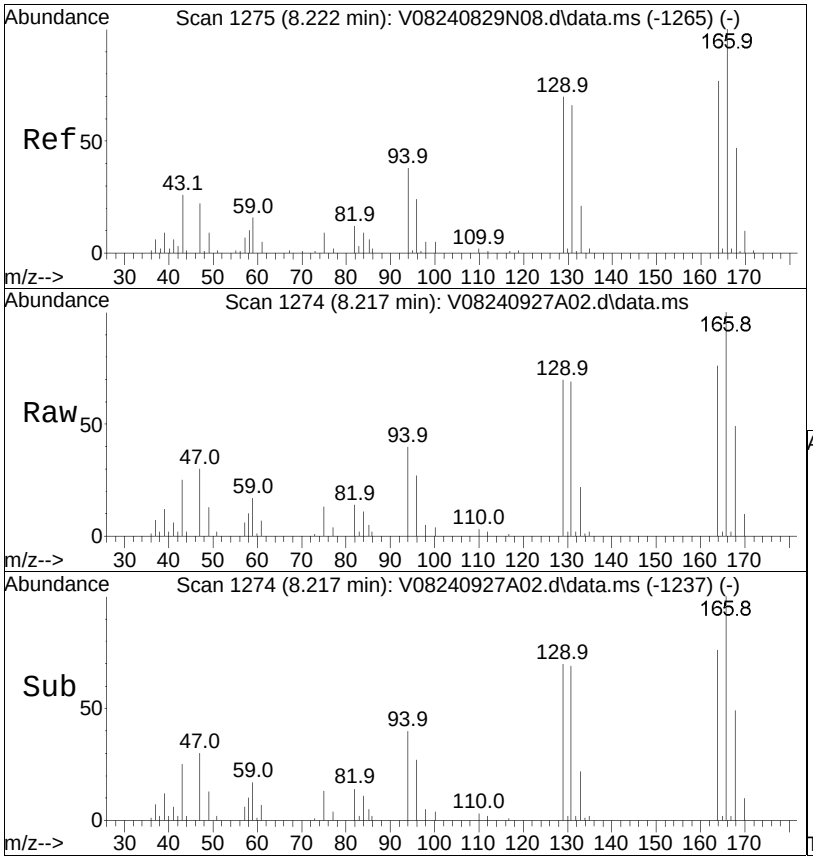


#62
4-Methyl-2-pentanone
Concen: 9.07 ug/L
RT: 8.201 min Scan# 1271
Delta R.T. -0.010 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 58 Resp: 7644

Ion	Ratio	Lower	Upper
58	100		
100	34.1	20.2	30.2#
43	270.5	196.6	295.0

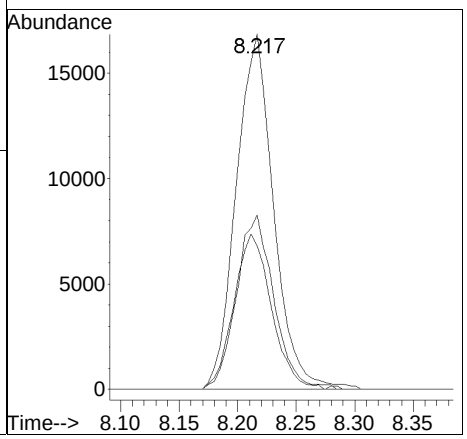


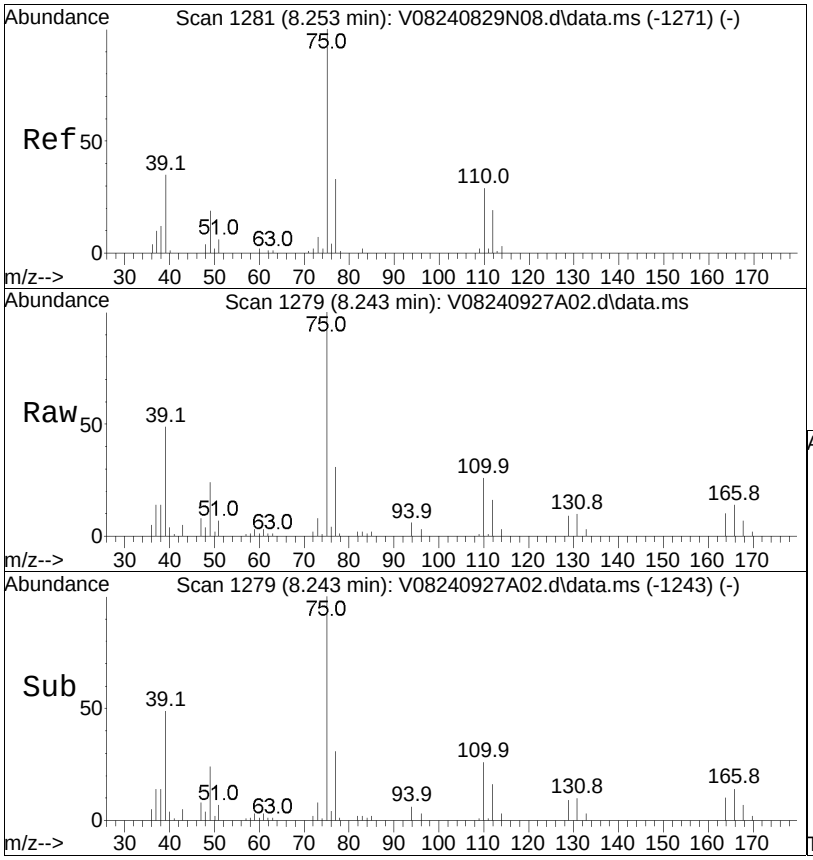


#63
Tetrachloroethene
Concen: 9.71 ug/L
RT: 8.217 min Scan# 1274
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion:166 Resp: 37571

Ion	Ratio	Lower	Upper
166	100		
168	48.9	28.2	68.2
94	43.9	38.4	78.4

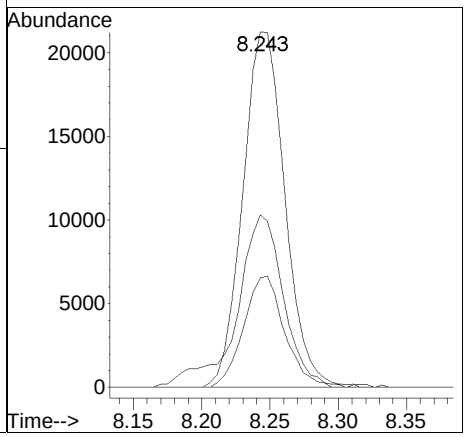


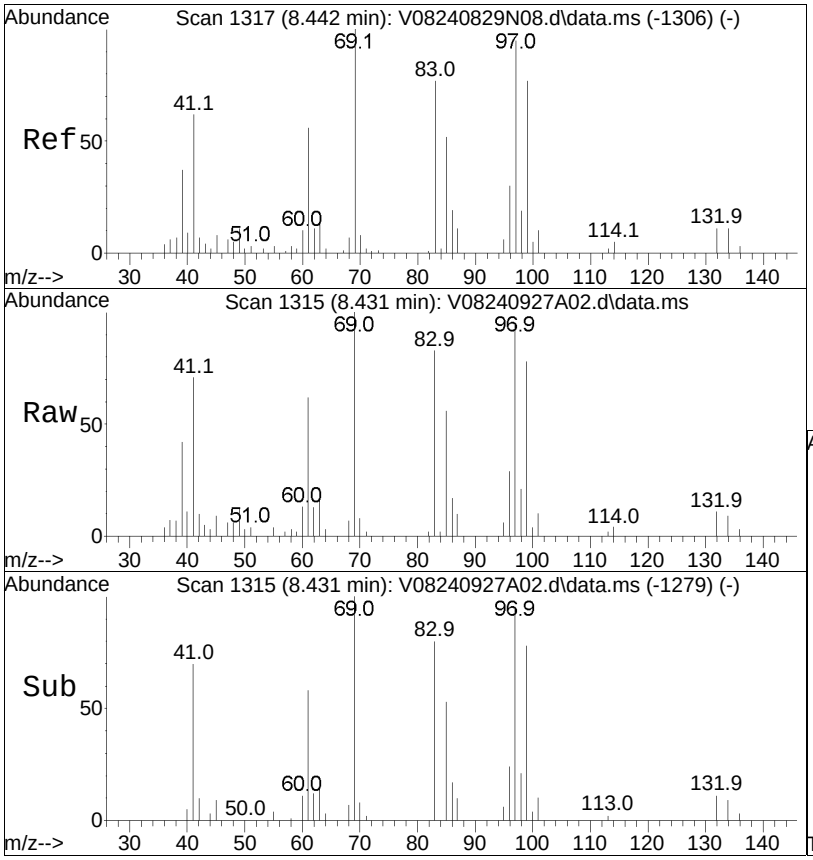


#65
trans-1,3-Dichloropropene
Concen: 10.46 ug/L
RT: 8.243 min Scan# 1279
Delta R.T. -0.010 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 75 Resp: 45619

Ion	Ratio	Lower	Upper
75	100		
77	30.3	12.4	52.4
39	54.0	42.8	82.8

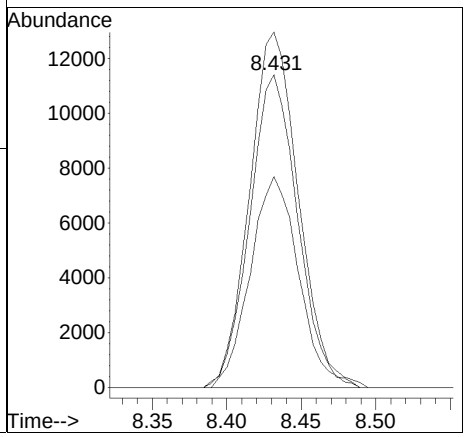


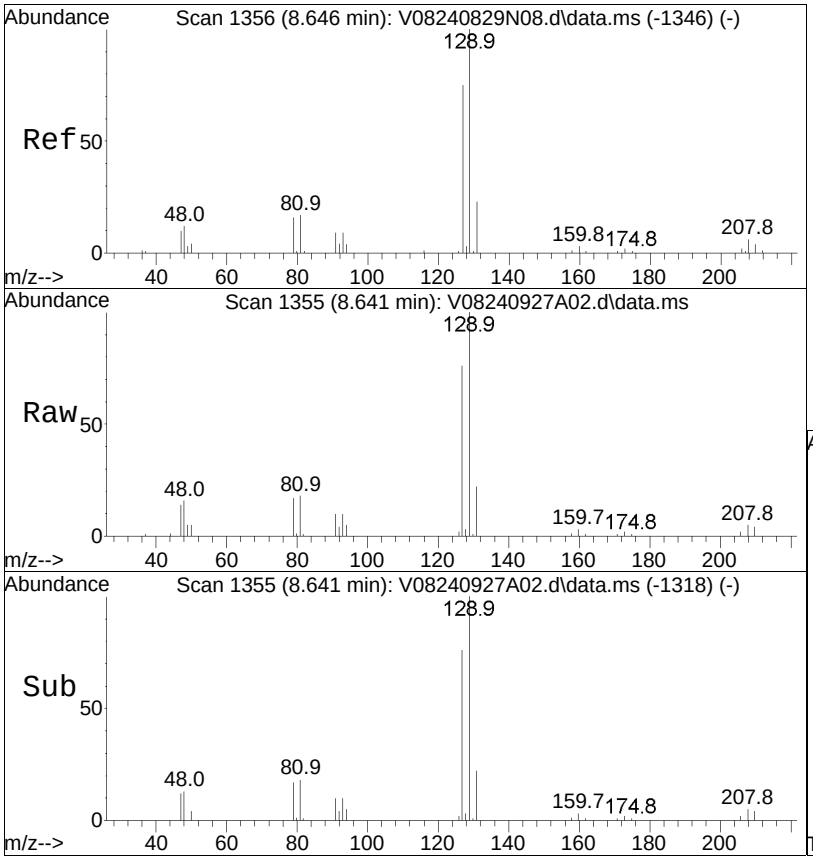


#68
1,1,2-Trichloroethane
Concen: 10.84 ug/L
RT: 8.431 min Scan# 1315
Delta R.T. -0.011 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 83 Resp: 25494

Ion	Ratio	Lower	Upper
83	100		
97	116.2	89.8	129.8
85	68.0	44.4	84.4

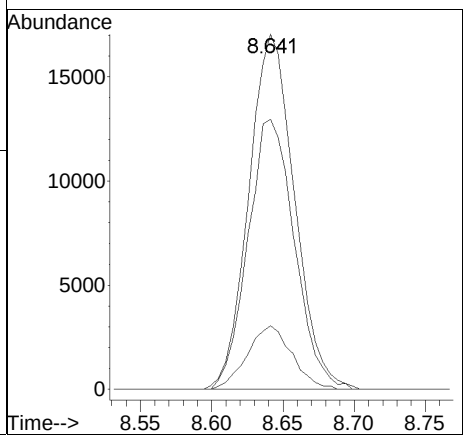


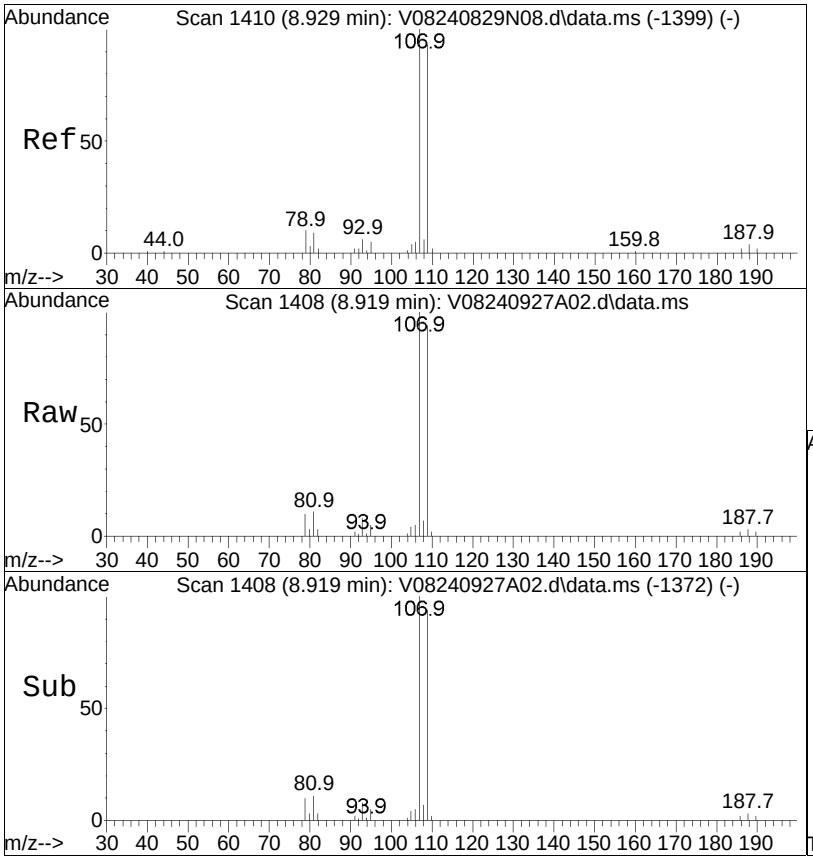


#69
Chlorodibromomethane
Concen: 9.12 ug/L
RT: 8.641 min Scan# 1355
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion:129 Resp: 38058

Ion	Ratio	Lower	Upper
129	100		
81	17.6	2.9	42.9
127	77.3	57.8	97.8

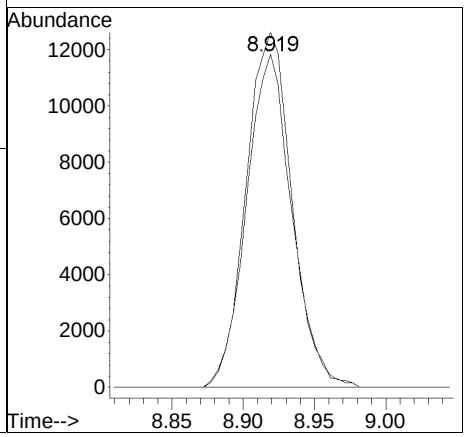


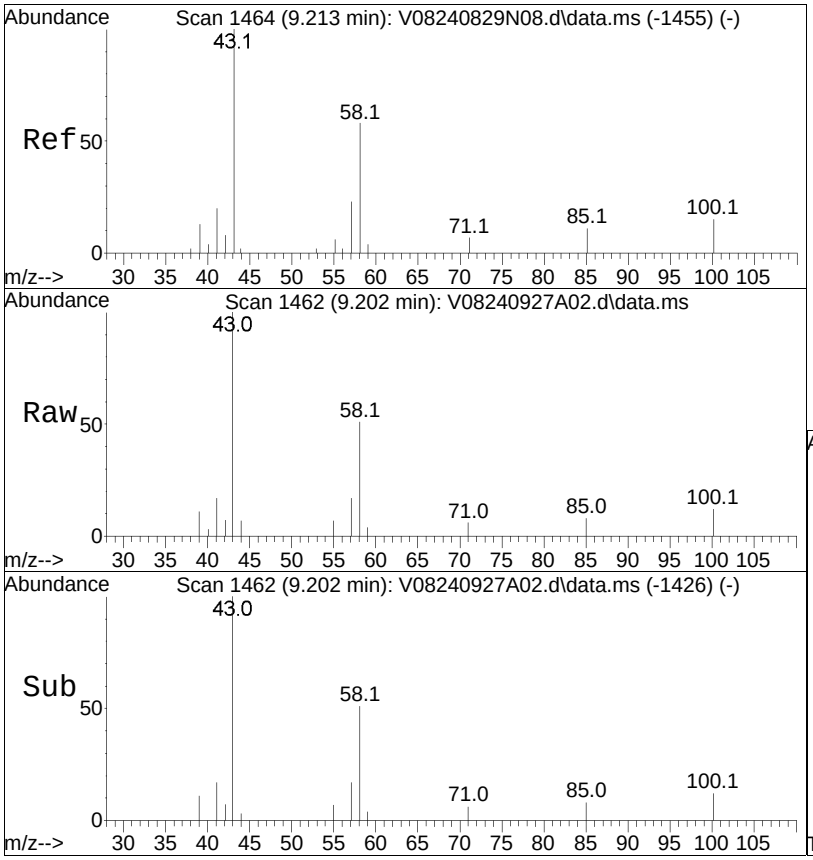


#71
1,2-Dibromoethane
Concen: 9.90 ug/L
RT: 8.919 min Scan# 1408
Delta R.T. -0.010 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion:107 Resp: 28399

Ion	Ratio	Lower	Upper
107	100		
109	92.2	74.3	111.5

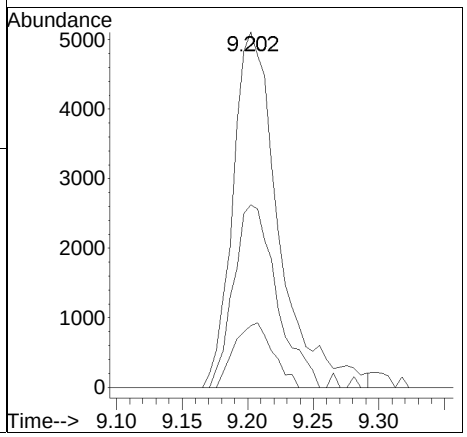


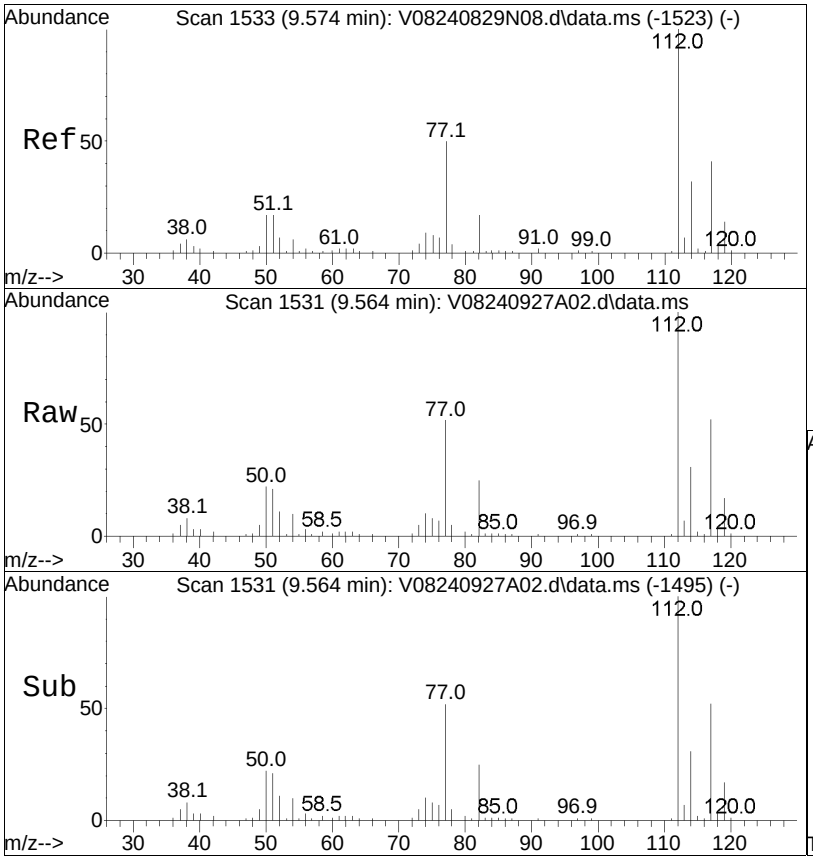


#72
2-Hexanone
Concen: 9.88 ug/L
RT: 9.202 min Scan# 1462
Delta R.T. -0.011 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 43 Resp: 12488

Ion	Ratio	Lower	Upper
43	100		
58	48.1	41.2	61.8
57	15.2	17.2	25.8#

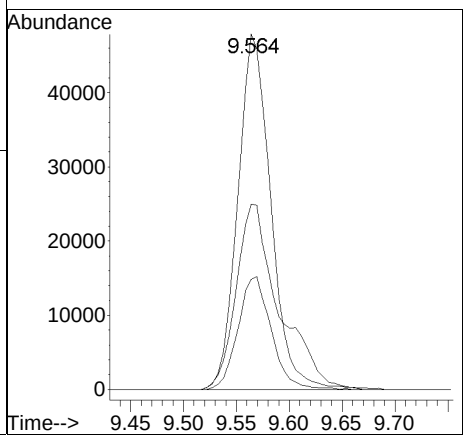


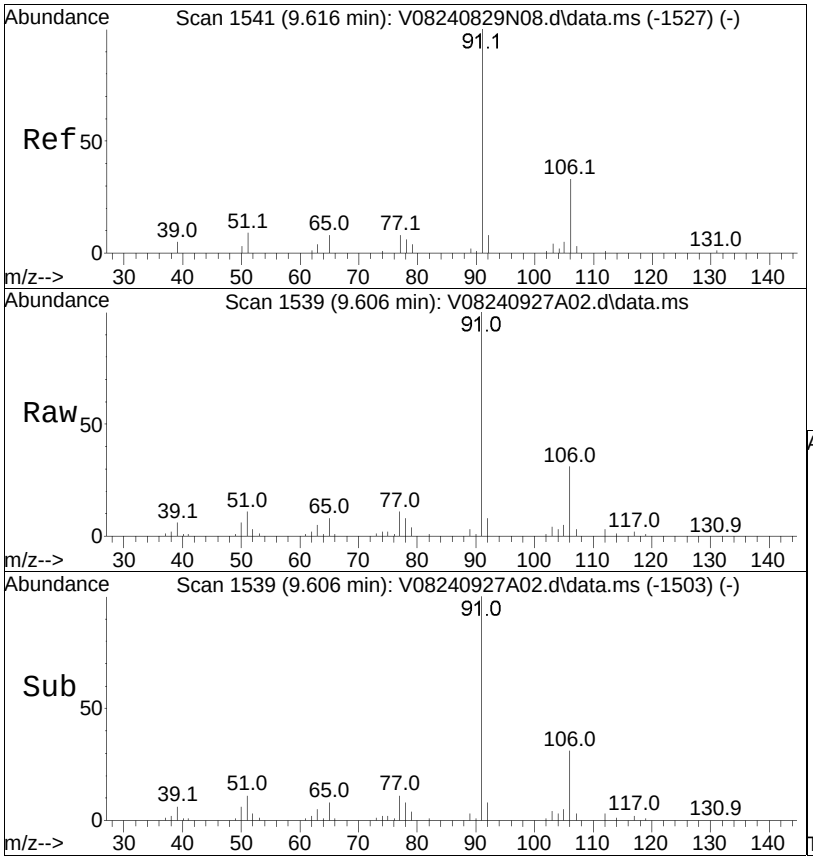


#73
Chlorobenzene
Concen: 10.15 ug/L
RT: 9.564 min Scan# 1531
Delta R.T. -0.010 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion:112 Resp: 103855

Ion	Ratio	Lower	Upper
112	100		
77	68.1	55.4	83.0
114	32.0	25.4	38.2

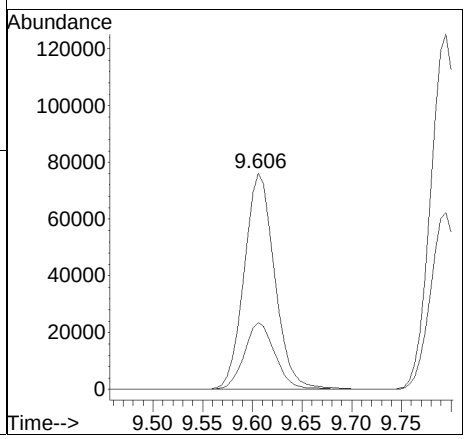


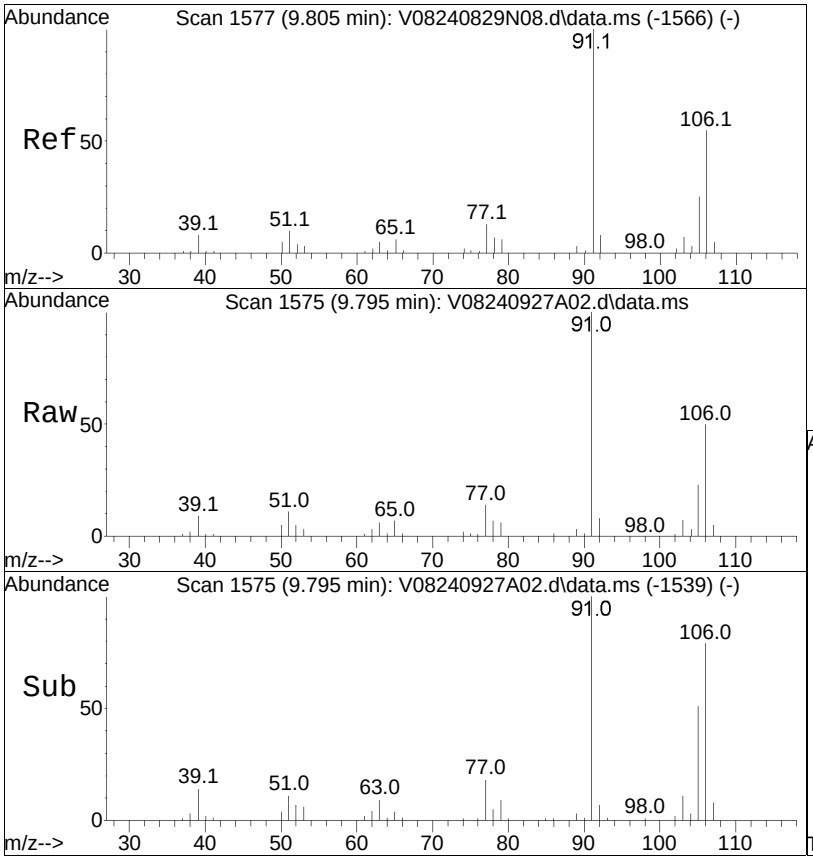


#74
Ethylbenzene
Concen: 10.85 ug/L
RT: 9.606 min Scan# 1539
Delta R.T. -0.010 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 91 Resp: 162988

Ion	Ratio	Lower	Upper
91	100		
106	31.1	24.3	36.5

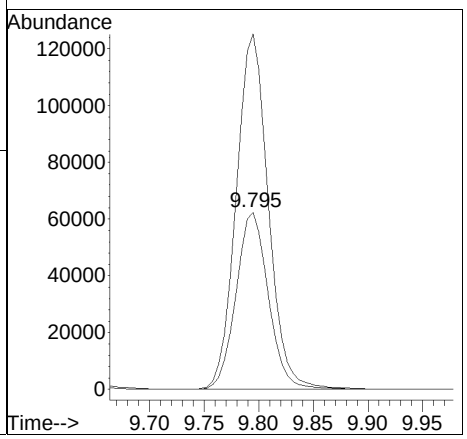


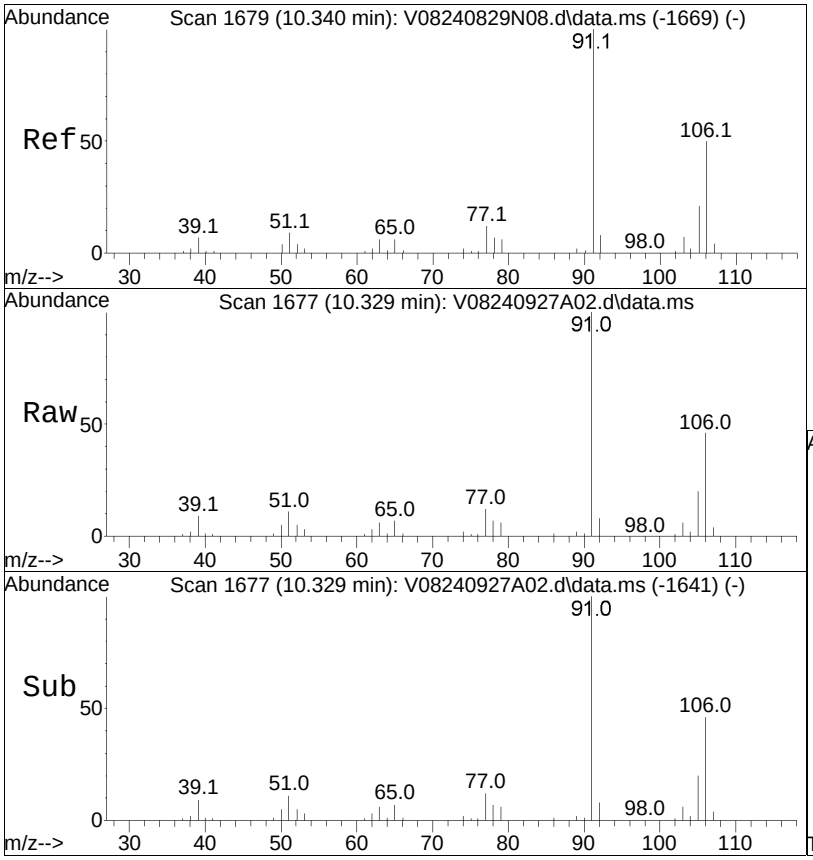


#76
p/m Xylene
Concen: 20.37 ug/L
RT: 9.795 min Scan# 1575
Delta R.T. -0.010 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion:106 Resp: 128674

Ion	Ratio	Lower	Upper
106	100		
91	199.4	166.4	249.6

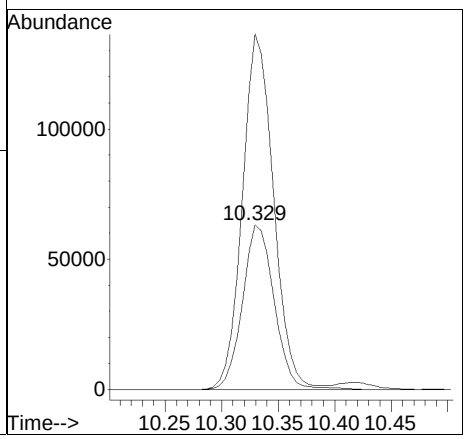


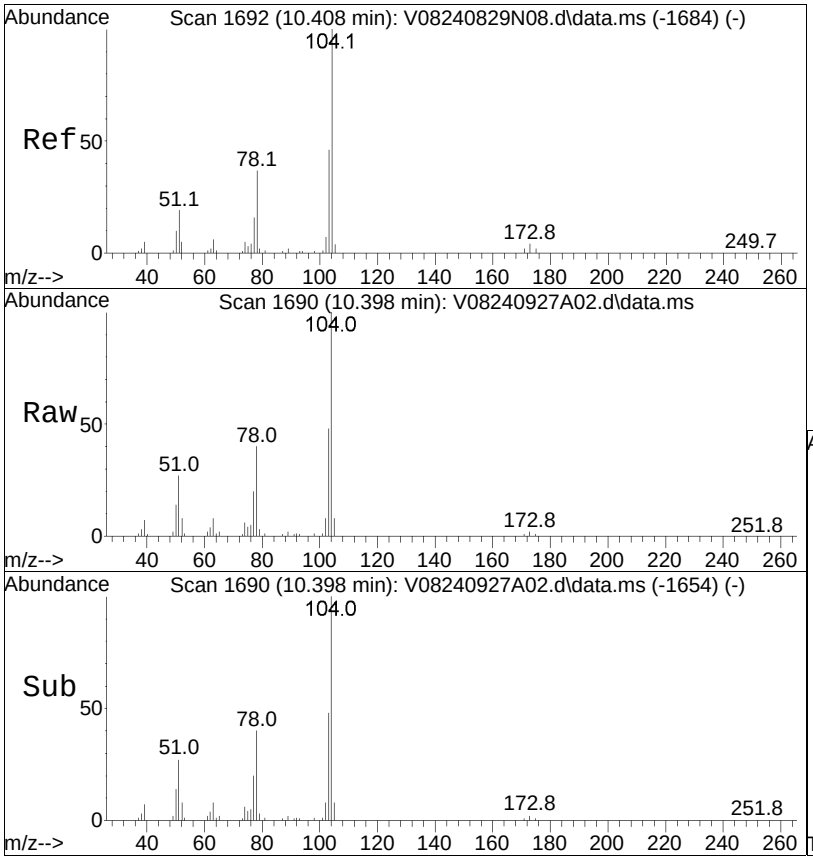


#77
o Xylene
Concen: 19.68 ug/L
RT: 10.329 min Scan# 1677
Delta R.T. -0.011 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion:106 Resp: 123110

Ion	Ratio	Lower	Upper
106	100		
91	212.3	182.6	273.8

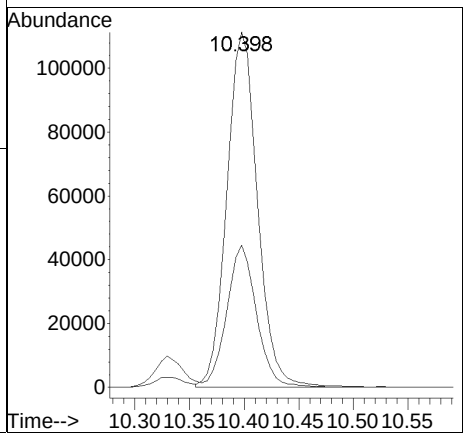


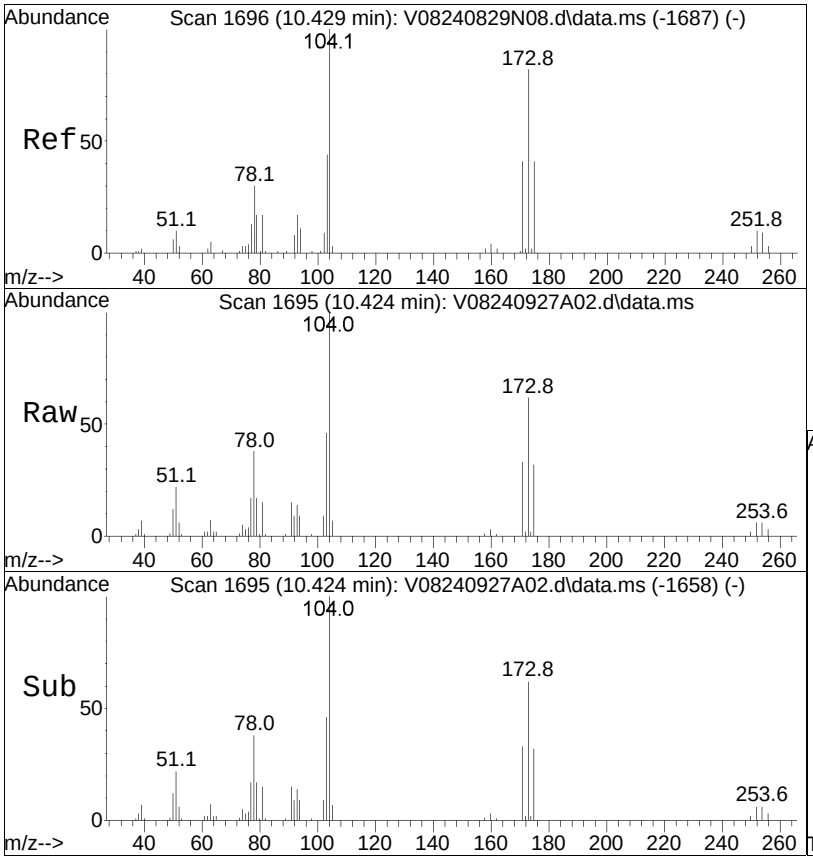


#78
Styrene
Concen: 19.27 ug/L
RT: 10.398 min Scan# 1690
Delta R.T. -0.010 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion:104 Resp: 217902

Ion	Ratio	Lower	Upper
104	100		
78	38.7	39.8	59.6#

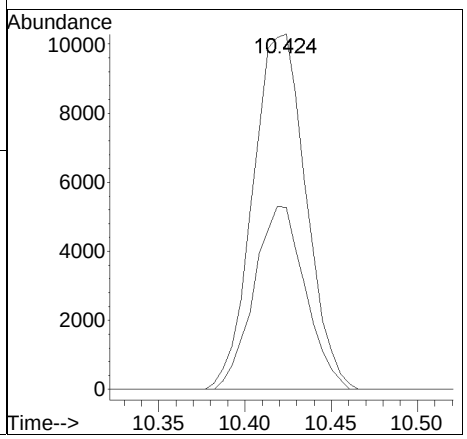


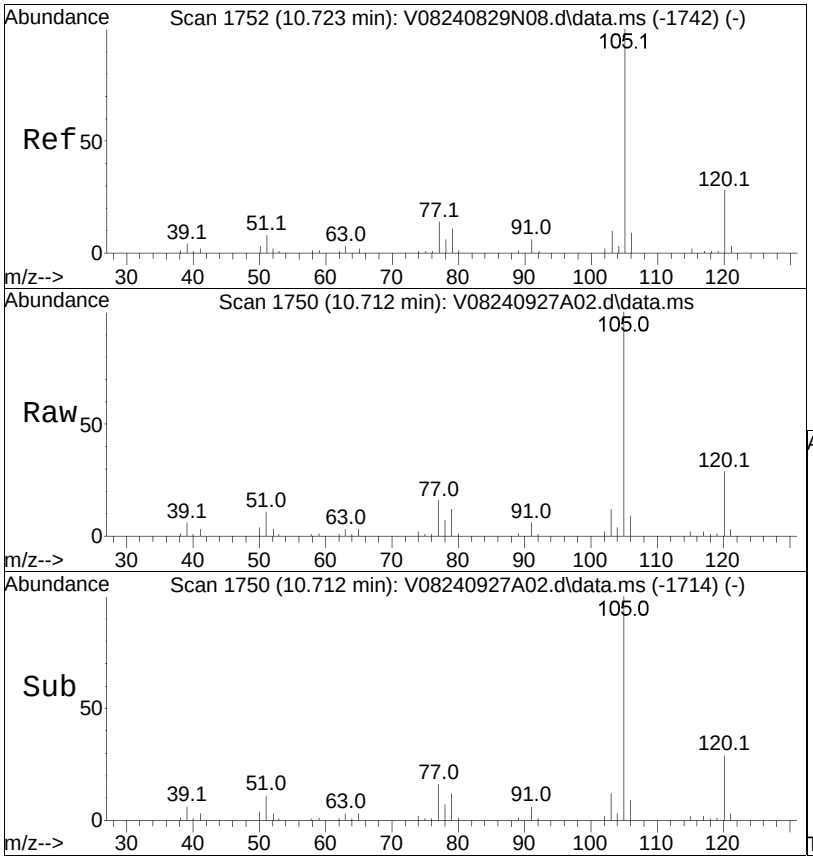


#80
Bromoform
Concen: 8.53 ug/L
RT: 10.424 min Scan# 1695
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion:173 Resp: 22009

Ion	Ratio	Lower	Upper
173	100		
175	49.7	31.5	71.5

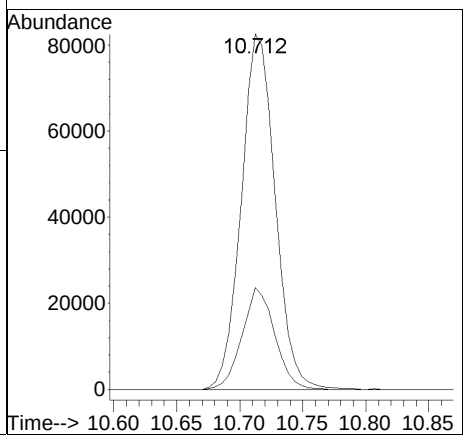


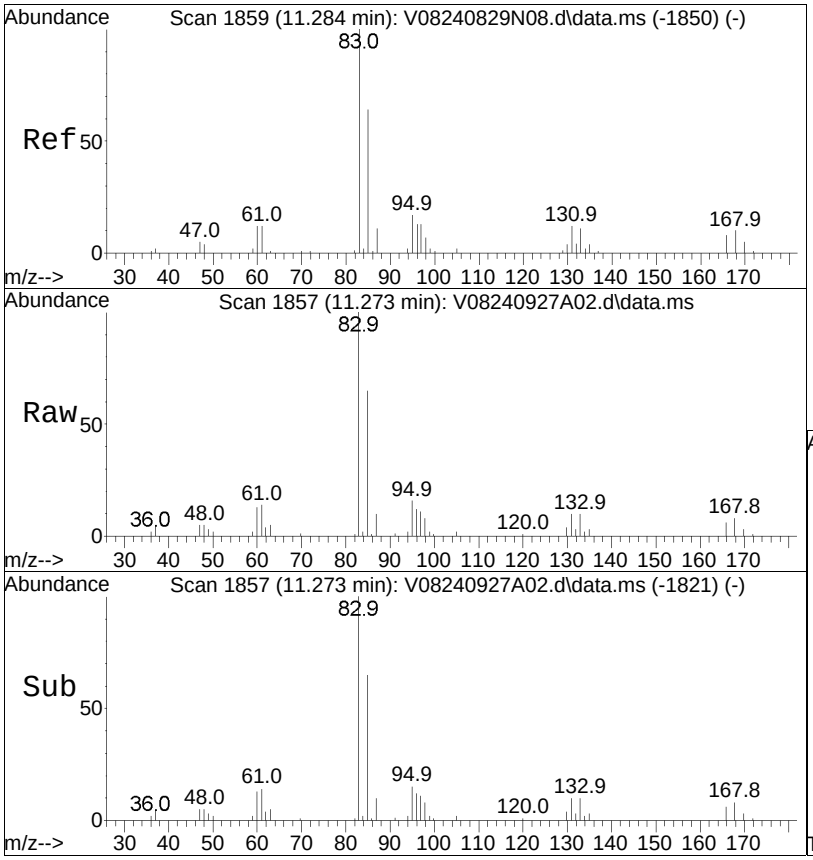


#82
Isopropylbenzene
Concen: 11.28 ug/L
RT: 10.712 min Scan# 1750
Delta R.T. -0.011 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion:105 Resp: 154267

Ion	Ratio	Lower	Upper
105	100		
120	27.5	4.8	44.8

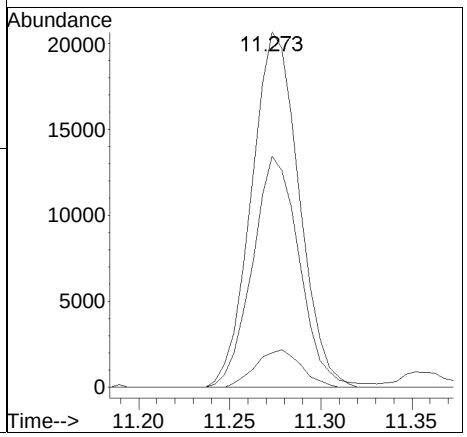


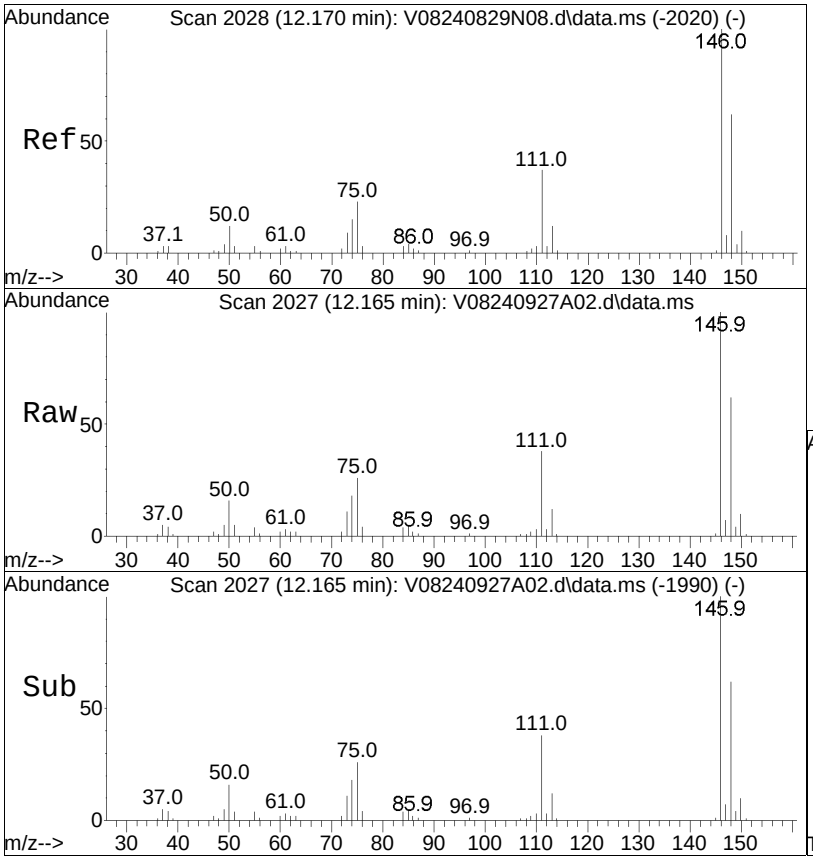


#87
1,1,2,2-Tetrachloroethane
Concen: 11.64 ug/L
RT: 11.273 min Scan# 1857
Delta R.T. -0.011 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion: 83 Resp: 37513

Ion	Ratio	Lower	Upper
83	100		
131	10.3	0.0	30.4
85	64.5	45.4	85.4

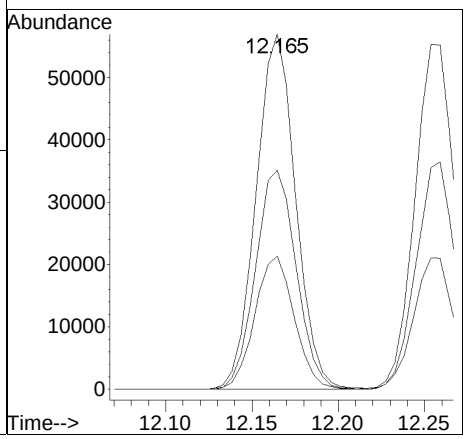


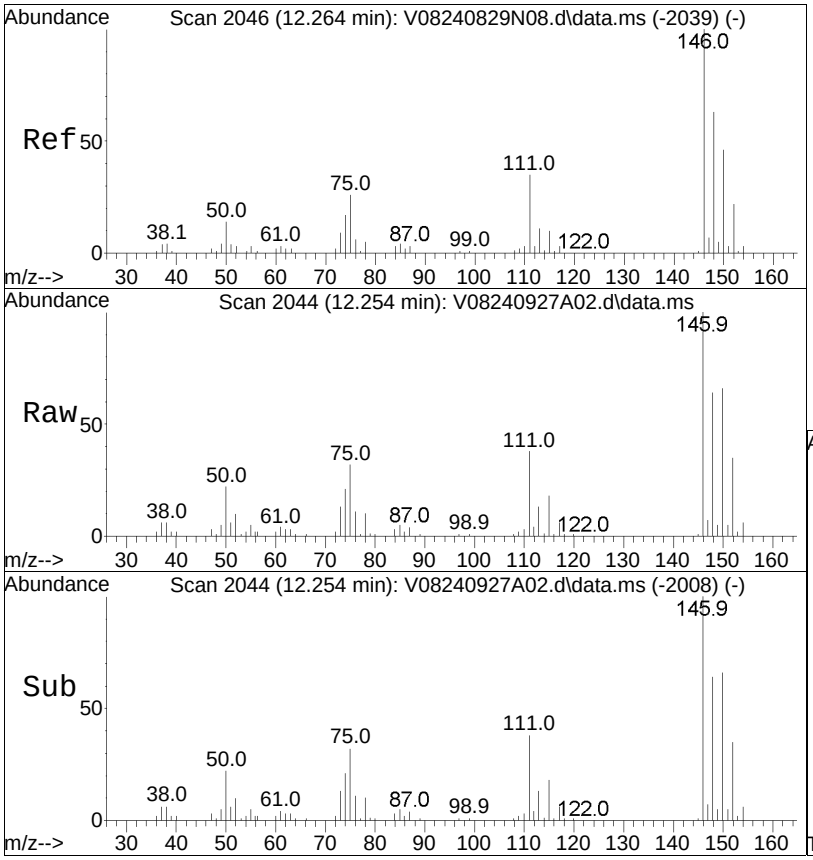


#100
1,3-Dichlorobenzene
Concen: 10.52 ug/L
RT: 12.165 min Scan# 2027
Delta R.T. -0.005 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion:146 Resp: 90833

Ion	Ratio	Lower	Upper
146	100		
111	37.5	27.5	57.1
148	63.7	41.9	86.9

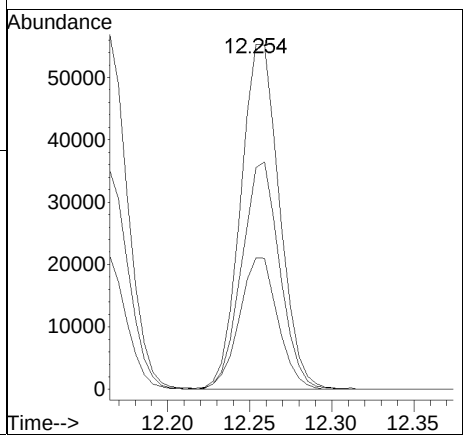


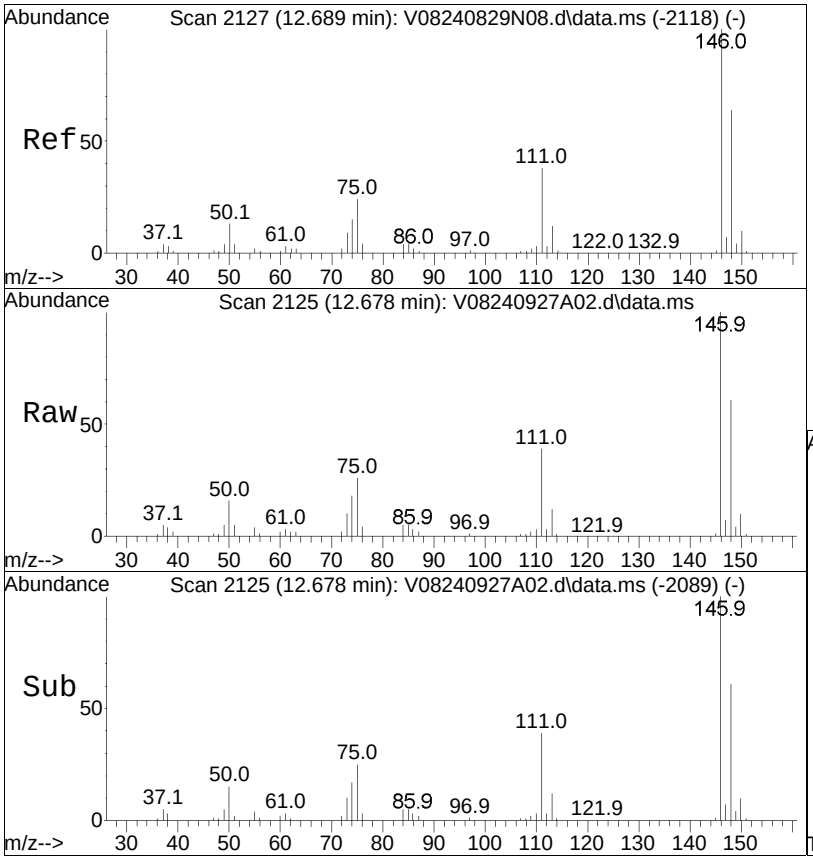


#101
1,4-Dichlorobenzene
Concen: 10.30 ug/L
RT: 12.254 min Scan# 2044
Delta R.T. -0.010 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion:146 Resp: 91238

Ion	Ratio	Lower	Upper
146	100		
111	37.8	32.3	48.5
148	64.6	49.9	74.9

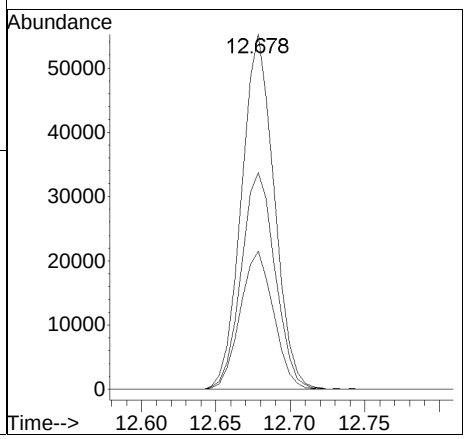


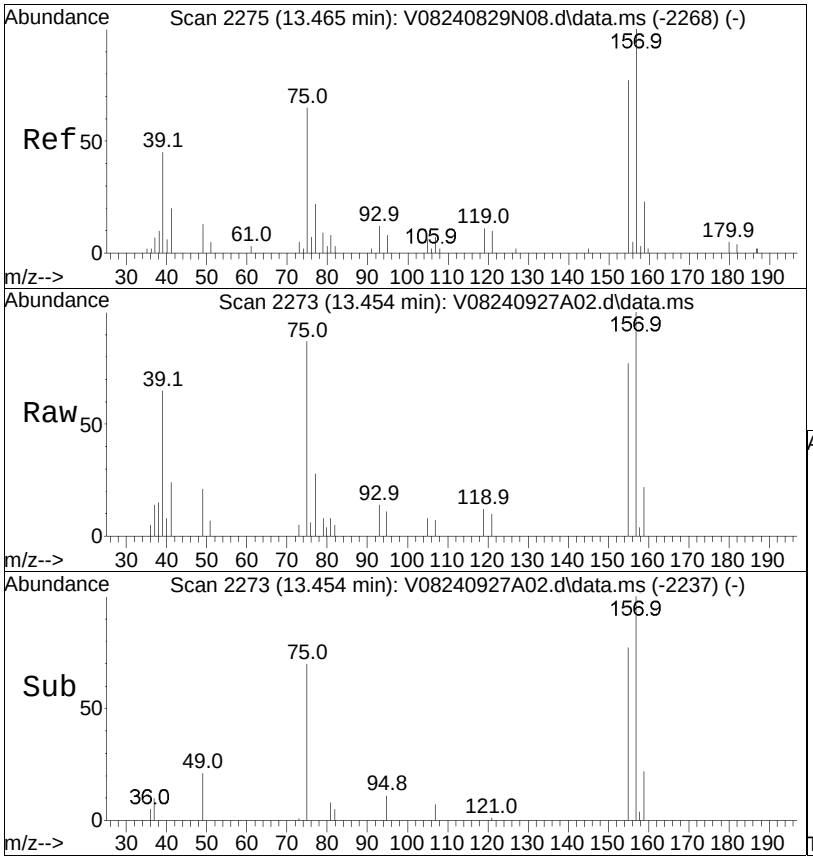


#104
1,2-Dichlorobenzene
Concen: 10.06 ug/L
RT: 12.678 min Scan# 2125
Delta R.T. -0.011 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion:146 Resp: 84314

Ion	Ratio	Lower	Upper
146	100		
111	39.8	28.3	58.7
148	63.3	42.3	87.8

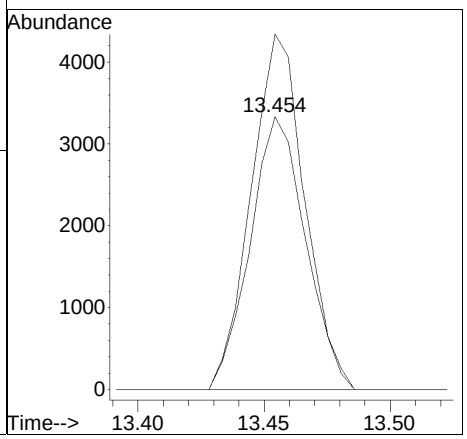


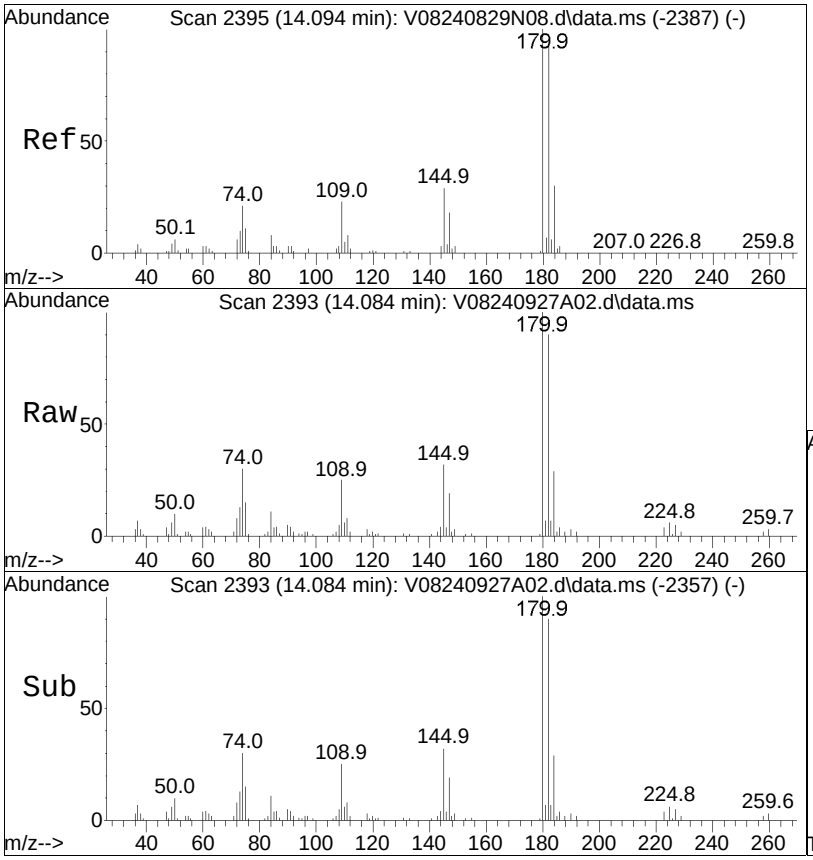


#106
1,2-Dibromo-3-chloropropane
Concen: 8.88 ug/L
RT: 13.454 min Scan# 2273
Delta R.T. -0.011 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion:155 Resp: 5090

Ion	Ratio	Lower	Upper
155	100		
157	126.0	94.8	142.2

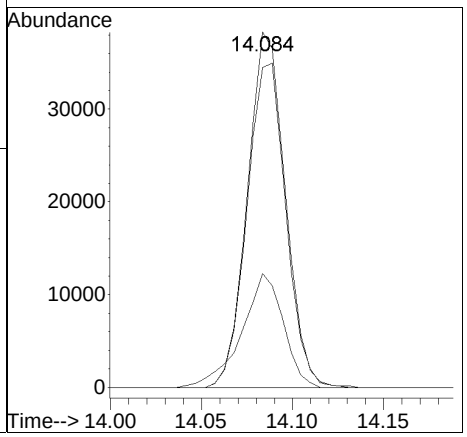


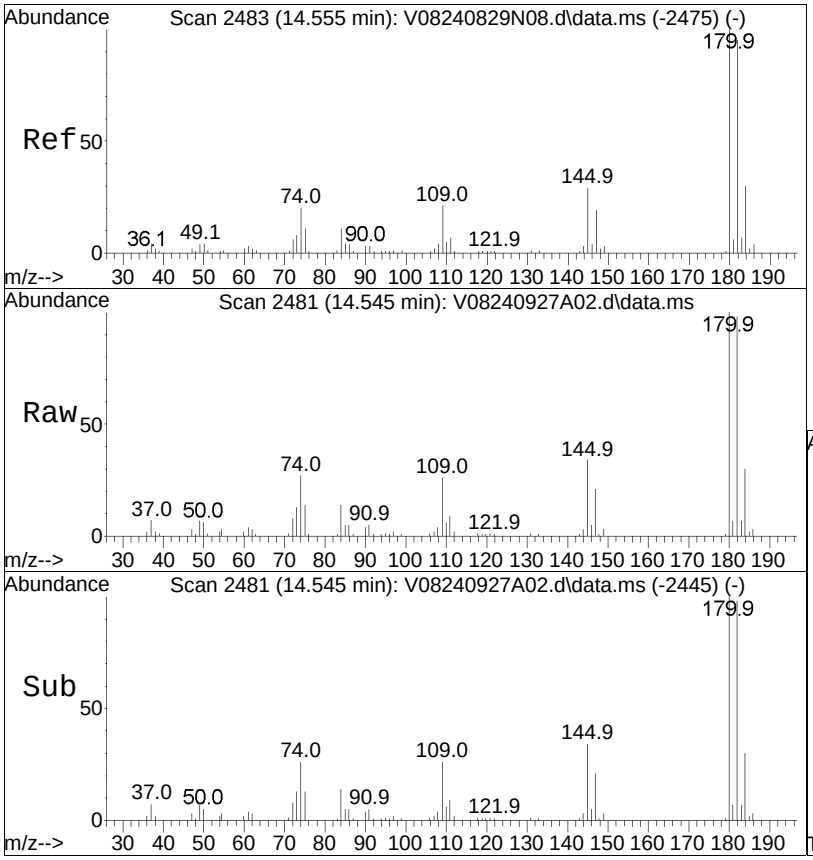


#109
1,2,4-Trichlorobenzene
Concen: 9.53 ug/L
RT: 14.084 min Scan# 2393
Delta R.T. -0.010 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion:180 Resp: 55488

Ion	Ratio	Lower	Upper
180	100		
182	93.7	77.3	115.9
145	35.1	28.1	42.1

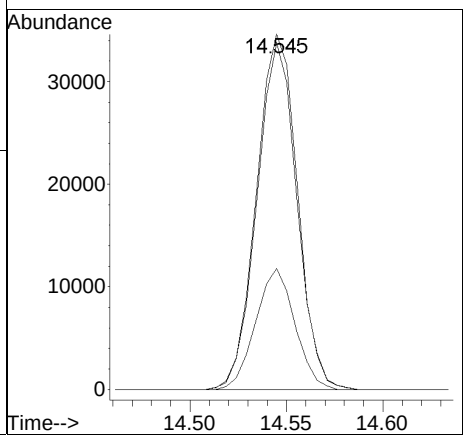




#111
1,2,3-Trichlorobenzene
Concen: 9.43 ug/L
RT: 14.545 min Scan# 2481
Delta R.T. -0.010 min
Lab File: V08240927A02.d
Acq: 27 Sep 2024 7:18 am

Tgt Ion:180 Resp: 51014

Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.4	114.6
145	32.6	26.4	39.6



Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A03.d
Acq On : 27 Sep 2024 7:40 am
Operator : VOA108:PID
Sample : WG1977231-4,31,10,10
Misc : WG1977231,ICAL21441
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 08:11:23 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240927A\V08240927A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.025	96	159669	10.000	ug/L	0.00
Standard Area 1 = 161447			Recovery = 98.90%			
59) Chlorobenzene-d5	9.548	117	117937	10.000	ug/L	0.00
Standard Area 1 = 119333			Recovery = 98.83%			
79) 1,4-Dichlorobenzene-d4	12.243	152	66905	10.000	ug/L	0.00
Standard Area 1 = 65315			Recovery = 102.43%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.223	113	48571	9.996	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.96%			
43) 1,2-Dichloroethane-d4	5.742	65	48613	10.873	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.73%			
60) Toluene-d8	7.713	98	149988	10.745	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.45%			
83) 4-Bromofluorobenzene	11.032	95	50650	10.678	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.78%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.673	85	33588	10.210	ug/L	99
3) Chloromethane	1.872	50	40765	11.801	ug/L	99
4) Vinyl chloride	1.935	62	53877	11.016	ug/L	97
5) Bromomethane	2.245	94	30705	7.138	ug/L	98
6) Chloroethane	2.360	64	47746	10.743	ug/L	96
7) Trichlorofluoromethane	2.502	101	77265	10.085	ug/L	97
10) 1,1-Dichloroethene	2.989	96	29593	10.001	ug/L #	69
11) Carbon disulfide	3.015	76	105821	10.485	ug/L	96
12) Freon-113	3.026	101	30892	10.659	ug/L	97
15) Methylene chloride	3.540	84	39273	10.108	ug/L	78
17) Acetone	3.576	43	7743	11.146	ug/L	99
18) trans-1,2-Dichloroethene	3.692	96	34708	9.651	ug/L	79
19) Methyl acetate	3.697	43	19813	11.675	ug/L #	88
20) Methyl tert-butyl ether	3.791	73	90725	9.189	ug/L	96
23) 1,1-Dichloroethane	4.268	63	71552	11.436	ug/L	97
28) cis-1,2-Dichloroethene	4.788	96	39142	9.454	ug/L #	73
30) Bromochloromethane	4.976	128	20779	8.785	ug/L #	63
31) Cyclohexane	4.982	56	51667	16.172	ug/L #	67
32) Chloroform	5.044	83	68110	10.216	ug/L	97
34) Carbon tetrachloride	5.186	117	50826	9.772	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A03.d
Acq On : 27 Sep 2024 7:40 am
Operator : VOA108:PID
Sample : WG1977231-4,31,10,10
Misc : WG1977231,ICAL21441
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 08:11:23 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240927A\V08240927A02.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.249	97	55435	9.969	ug/L	#	93
39) 2-Butanone	5.333	43	11926	11.821	ug/L	#	81
41) Benzene	5.611	78	141025	10.087	ug/L		92
44) 1,2-Dichloroethane	5.810	62	47906	10.568	ug/L		96
47) Methyl cyclohexane	6.198	83	46075	15.141	ug/L	#	75
48) Trichloroethene	6.203	95	36496	9.508	ug/L		92
51) 1,2-Dichloropropane	6.743	63	37960	10.882	ug/L		95
54) Bromodichloromethane	6.817	83	50993	9.759	ug/L		99
58) cis-1,3-Dichloropropene	7.498	75	52577	9.488	ug/L		90
61) Toluene	7.766	92	88002	10.786	ug/L		98
62) 4-Methyl-2-pentanone	8.195	58	8113	9.743	ug/L	#	93
63) Tetrachloroethene	8.216	166	37373	9.775	ug/L		89
65) trans-1,3-Dichloropropene	8.248	75	44331	10.287	ug/L		93
68) 1,1,2-Trichloroethane	8.431	83	25948	11.161	ug/L		97
69) Chlorodibromomethane	8.641	129	37290	9.046	ug/L		97
71) 1,2-Dibromoethane	8.919	107	27978	9.873	ug/L		97
72) 2-Hexanone	9.202	43	12613	10.095	ug/L	#	95
73) Chlorobenzene	9.569	112	102380	10.123	ug/L		98
74) Ethylbenzene	9.606	91	163384	11.004	ug/L		100
76) p/m Xylene	9.795	106	128669	20.607	ug/L		95
77) o Xylene	10.335	106	124864	20.193	ug/L		89
78) Styrene	10.398	104	217075	19.417	ug/L	#	84
80) Bromoform	10.424	173	22295	8.435	ug/L		96
82) Isopropylbenzene	10.712	105	154719	11.048	ug/L		97
87) 1,1,2,2-Tetrachloroethane	11.273	83	37587	11.381	ug/L		100
100) 1,3-Dichlorobenzene	12.164	146	89518	10.126	ug/L		97
101) 1,4-Dichlorobenzene	12.259	146	92341	10.172	ug/L		98
104) 1,2-Dichlorobenzene	12.678	146	84312	9.823	ug/L		95
106) 1,2-Dibromo-3-chloropr...	13.454	155	5183	8.826	ug/L		87
109) 1,2,4-Trichlorobenzene	14.083	180	54984	9.217	ug/L		99
111) 1,2,3-Trichlorobenzene	14.545	180	50932	9.188	ug/L		99

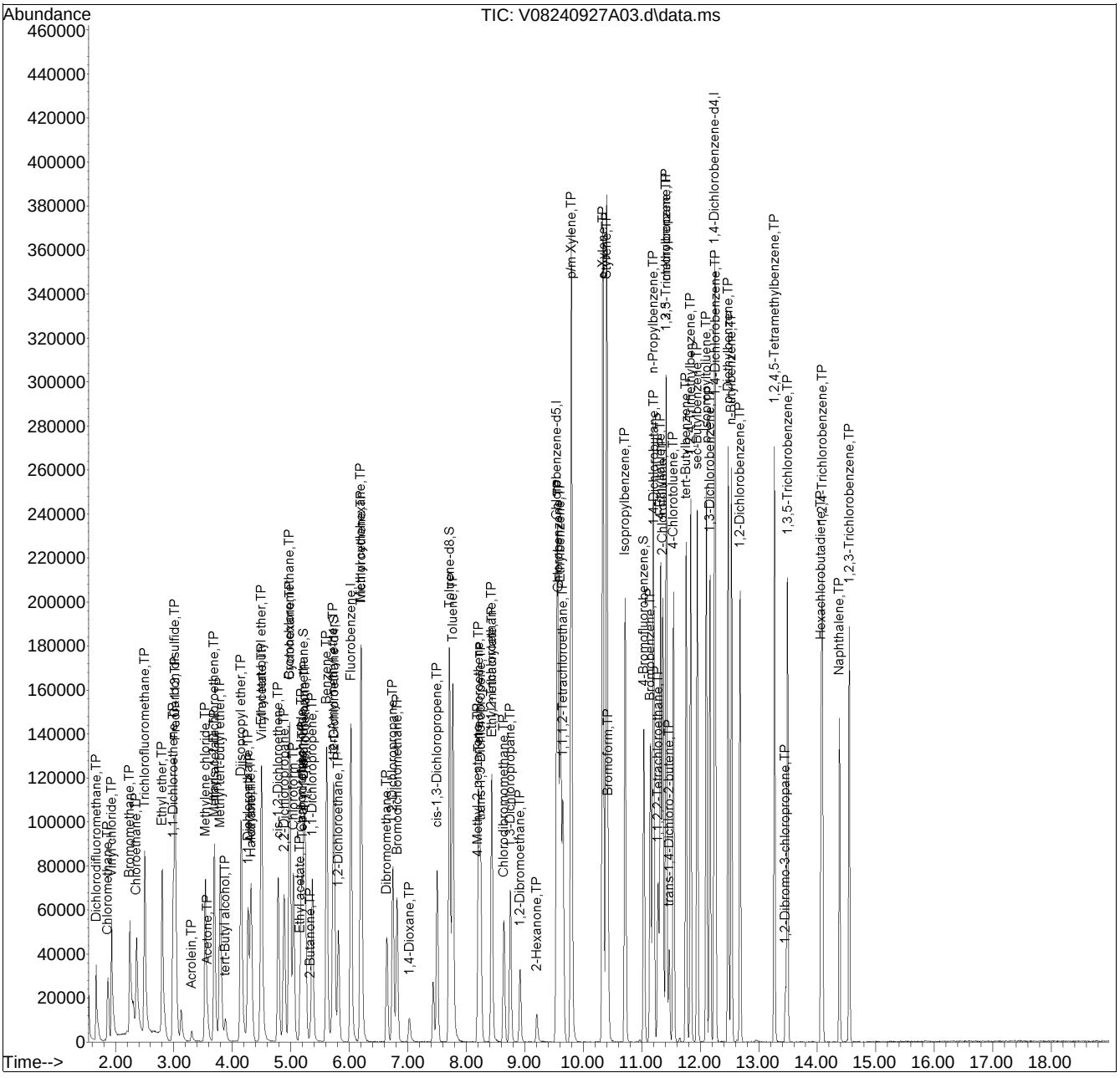
(#) = qualifier out of range (m) = manual integration (+) = signals summed

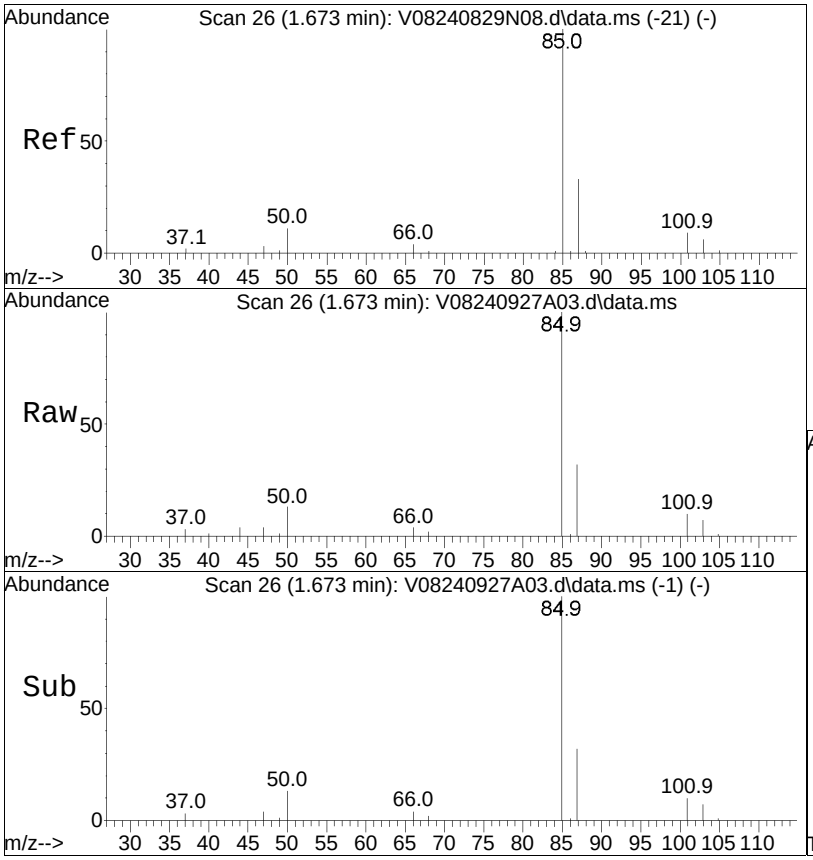
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240927A\
Data File : V08240927A03.d
Acq On : 27 Sep 2024 7:40 am
Operator : VOA108:PID
Sample : WG1977231-4,31,10,10
Misc : WG1977231,ICAL21441
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 08:11:23 2024
Quant Method : K:\VOA108\2024\240927A\V108_240829N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 03 11:34:04 2024
Response via : Initial Calibration

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

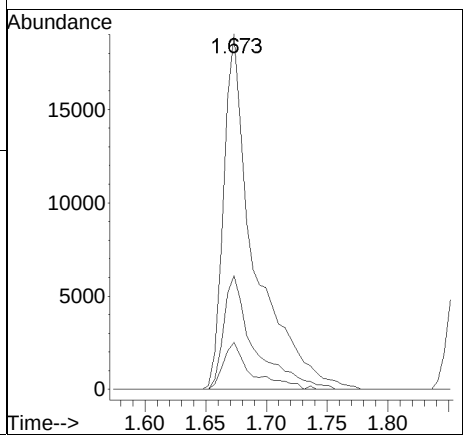


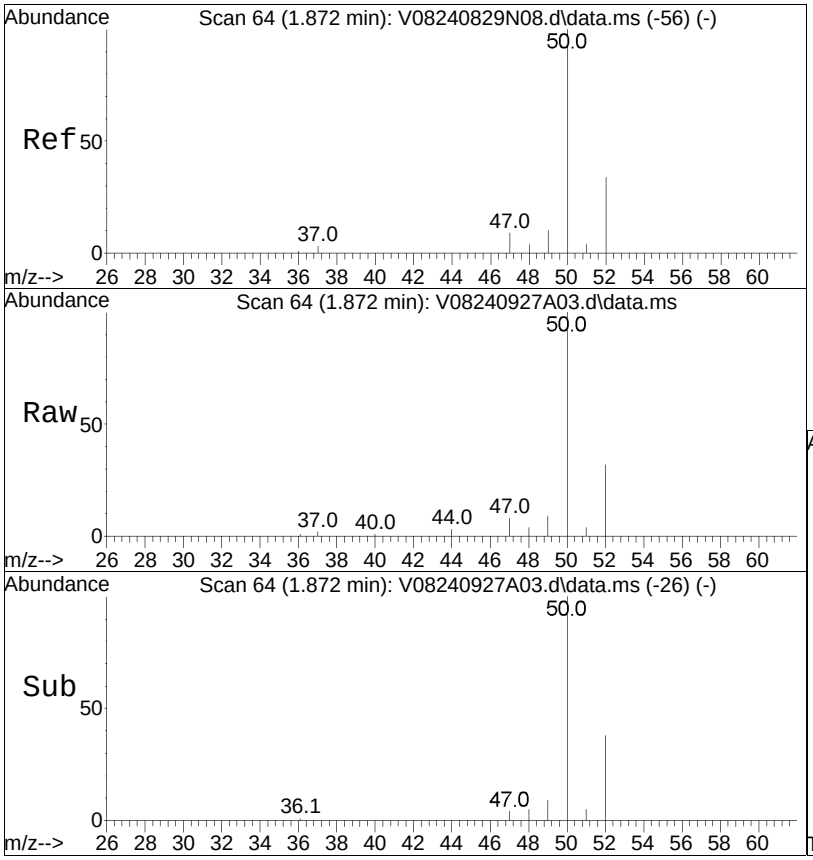


#2
Dichlorodifluoromethane
Concen: 10.21 ug/L
RT: 1.673 min Scan# 26
Delta R.T. 0.000 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 85 Resp: 33588

Ion	Ratio	Lower	Upper
85	100		
87	32.0	21.0	43.6
50	12.3	8.9	18.5

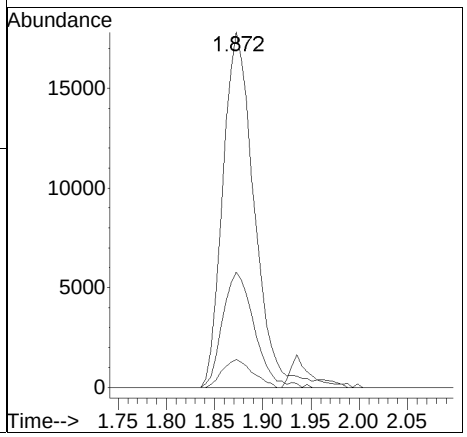


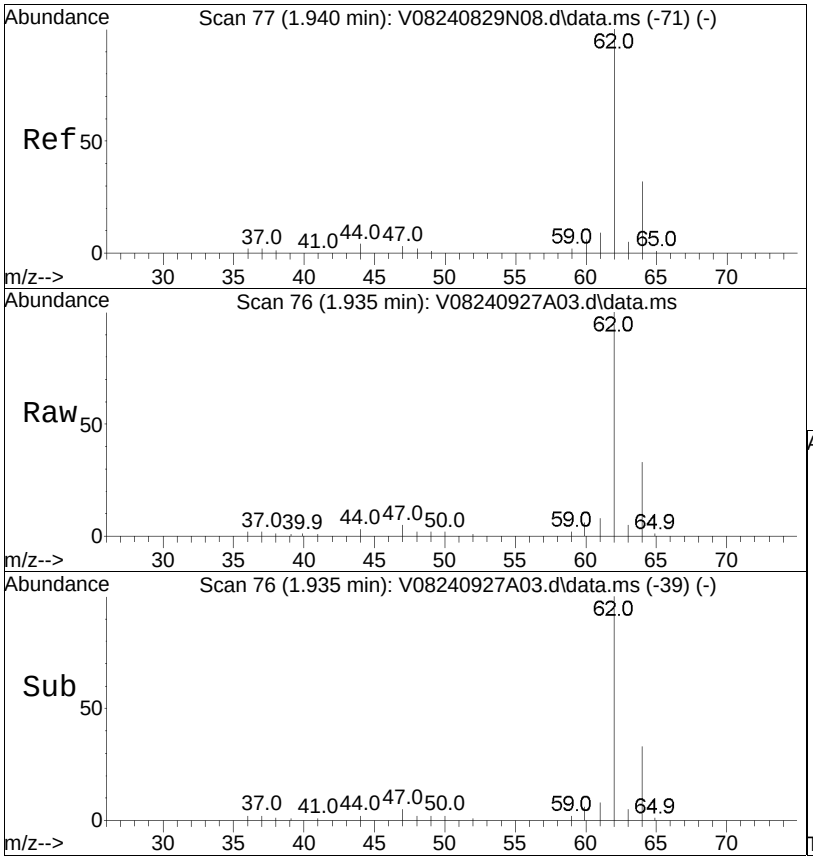


#3
Chloromethane
Concen: 11.80 ug/L
RT: 1.872 min Scan# 64
Delta R.T. 0.000 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 50 Resp: 40765

Ion	Ratio	Lower	Upper
50	100		
52	32.4	12.9	52.9
47	7.5	0.0	28.3

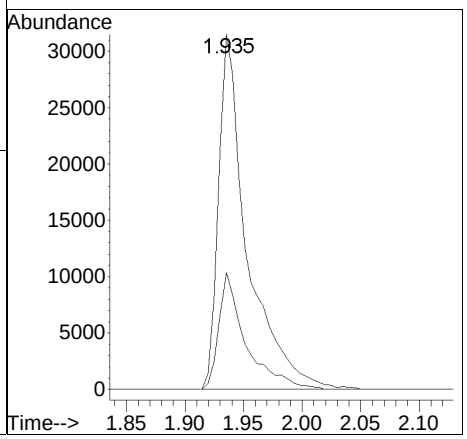


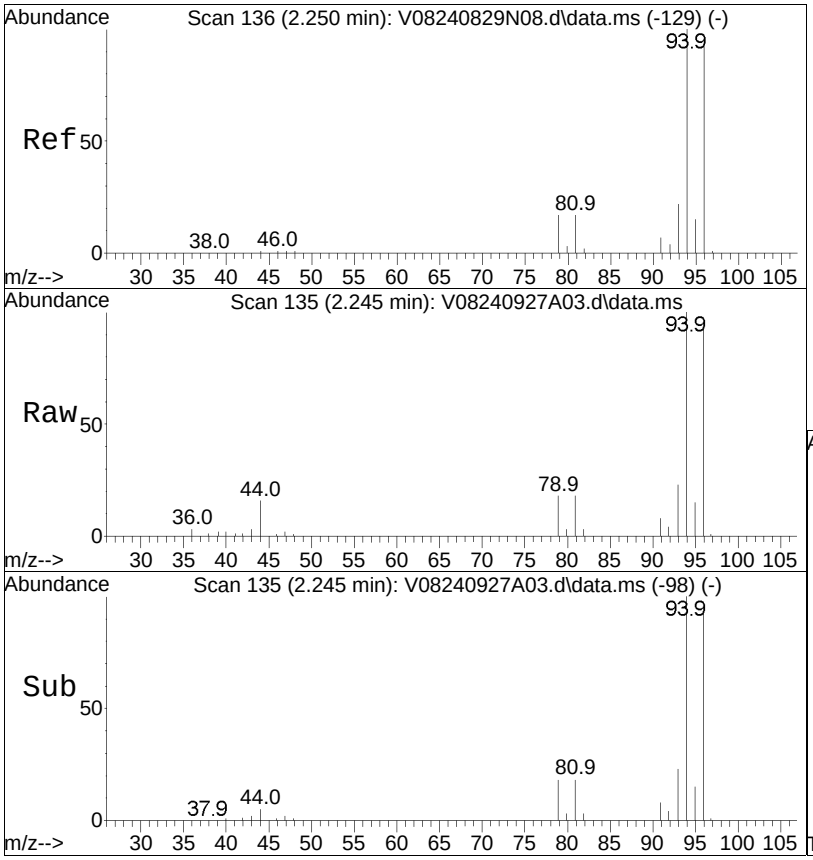


#4
Vinyl chloride
Concen: 11.02 ug/L
RT: 1.935 min Scan# 76
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 62 Resp: 53877

Ion	Ratio	Lower	Upper
62	100		
64	30.9	9.1	49.1

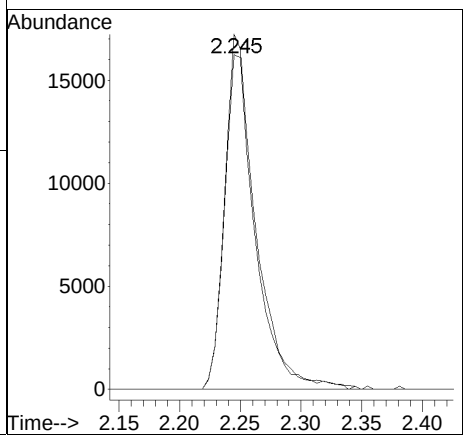


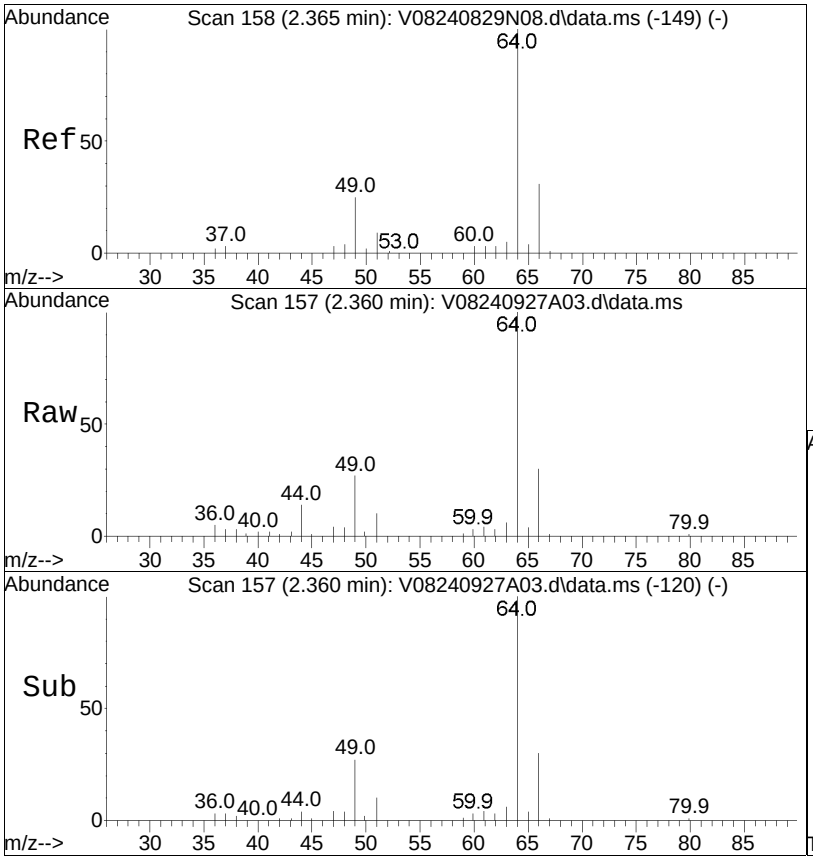


#5
Bromomethane
Concen: 7.14 ug/L
RT: 2.245 min Scan# 135
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 94 Resp: 30705

Ion	Ratio	Lower	Upper
94	100		
96	93.7	75.6	115.6

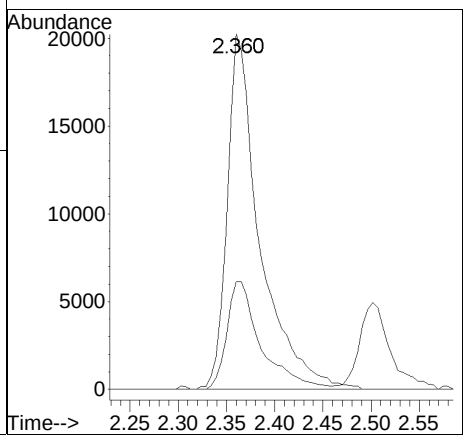


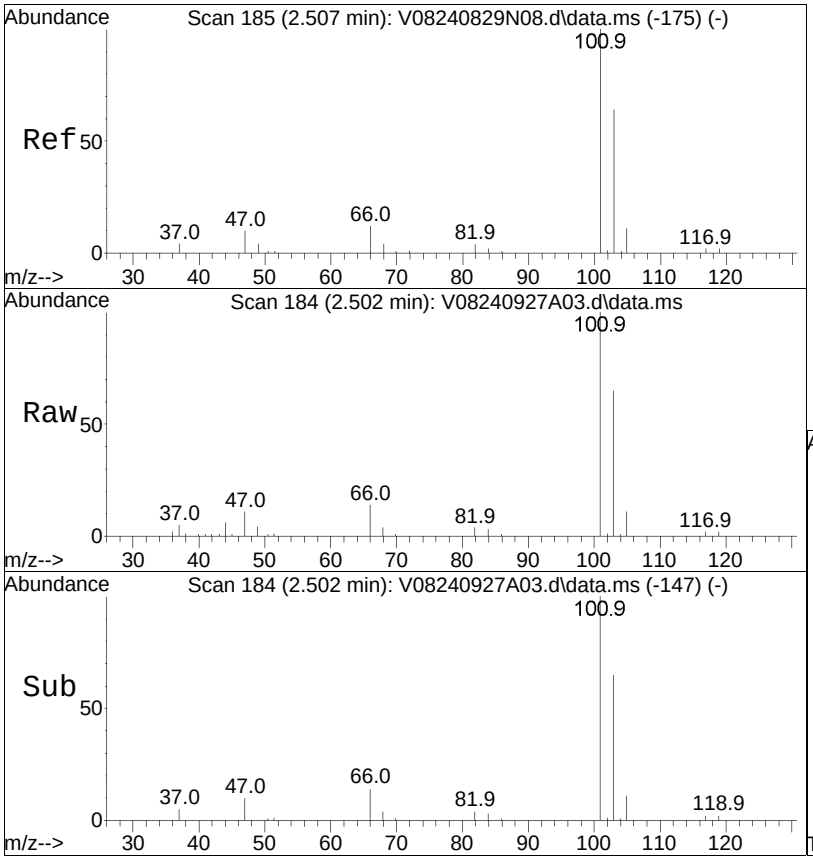


#6
Chloroethane
Concen: 10.74 ug/L
RT: 2.360 min Scan# 157
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 64 Resp: 47746

Ion	Ratio	Lower	Upper
64	100		
66	31.8	9.8	49.8

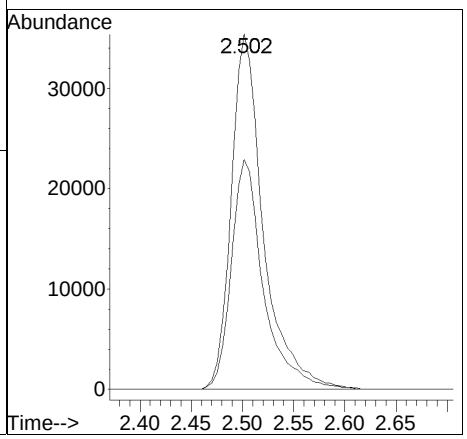


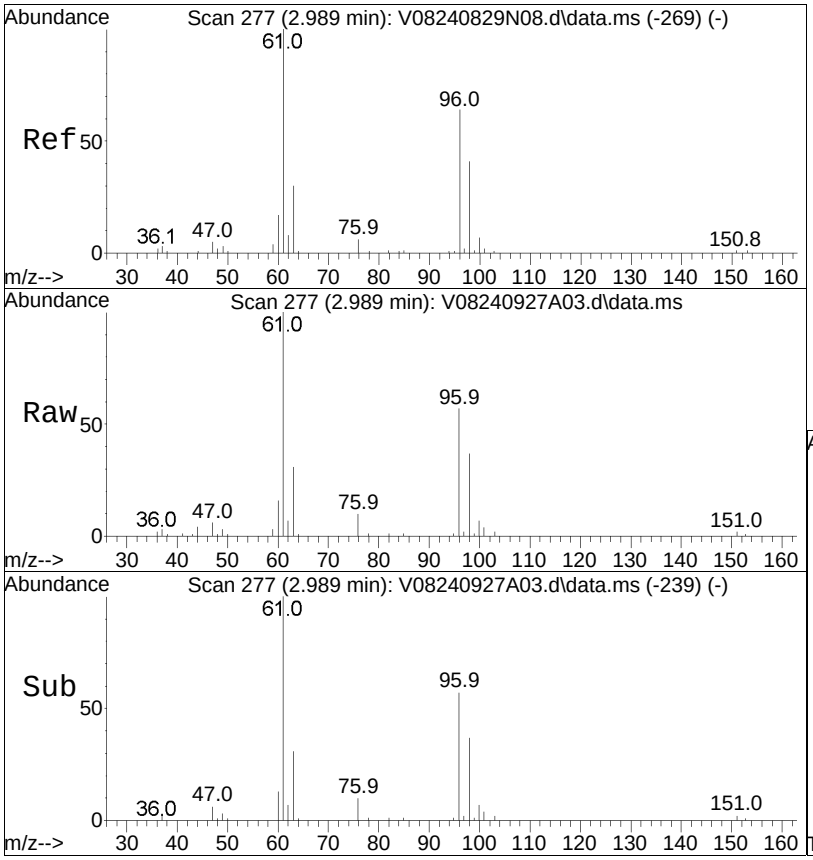


#7
Trichlorofluoromethane
Concen: 10.09 ug/L
RT: 2.502 min Scan# 184
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion:101 Resp: 77265

Ion	Ratio	Lower	Upper
101	100		
103	65.0	53.8	80.6

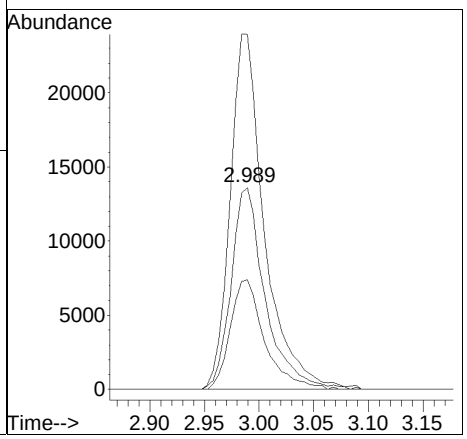


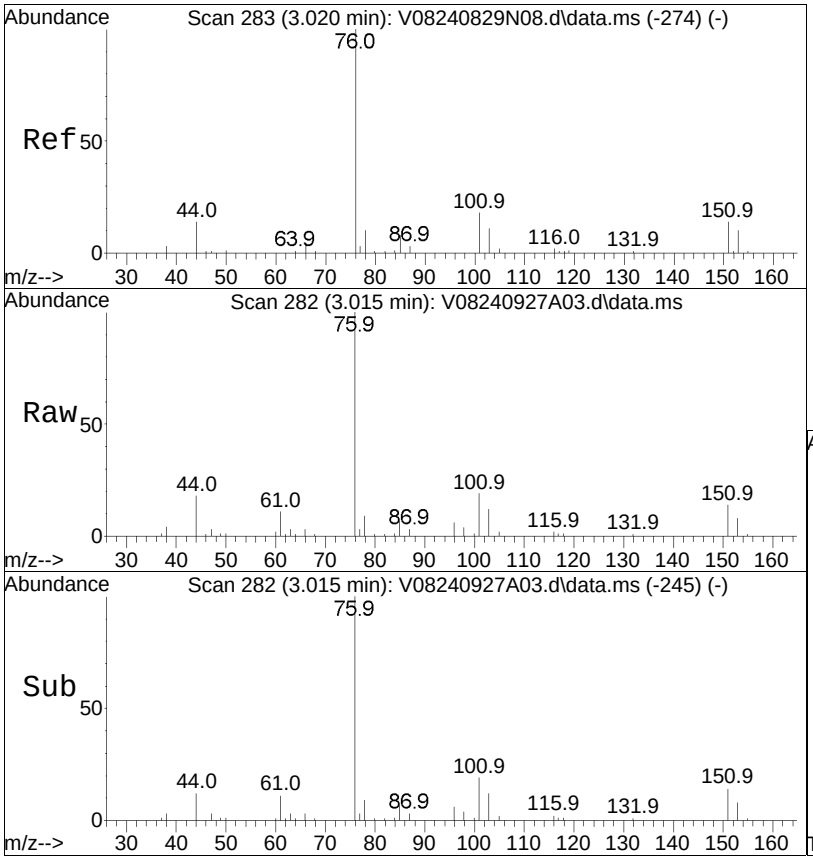


#10
1,1-Dichloroethene
Concen: 10.00 ug/L
RT: 2.989 min Scan# 277
Delta R.T. 0.000 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 96 Resp: 29593

Ion	Ratio	Lower	Upper
96	100		
61	176.4	186.1	279.1#
63	54.8	57.6	86.4#

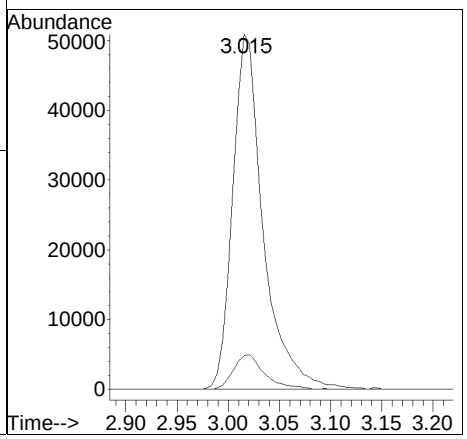


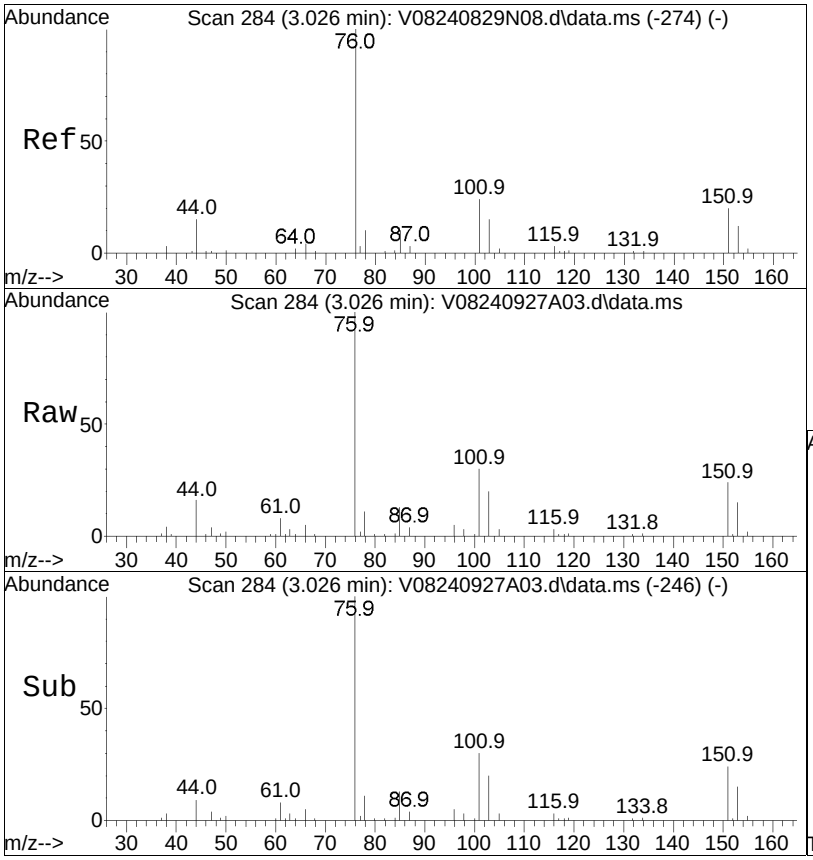


#11
Carbon disulfide
Concen: 10.49 ug/L
RT: 3.015 min Scan# 282
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 76 Resp: 105821

Ion	Ratio	Lower	Upper
76	100		
78	10.0	5.7	11.7

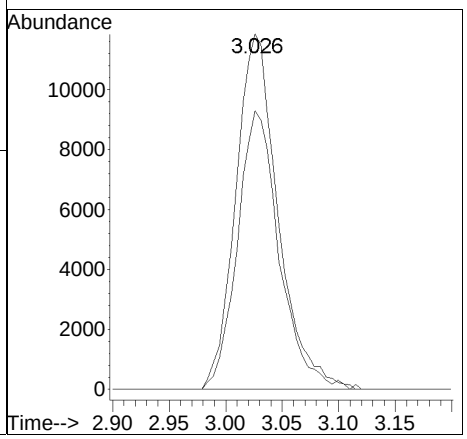


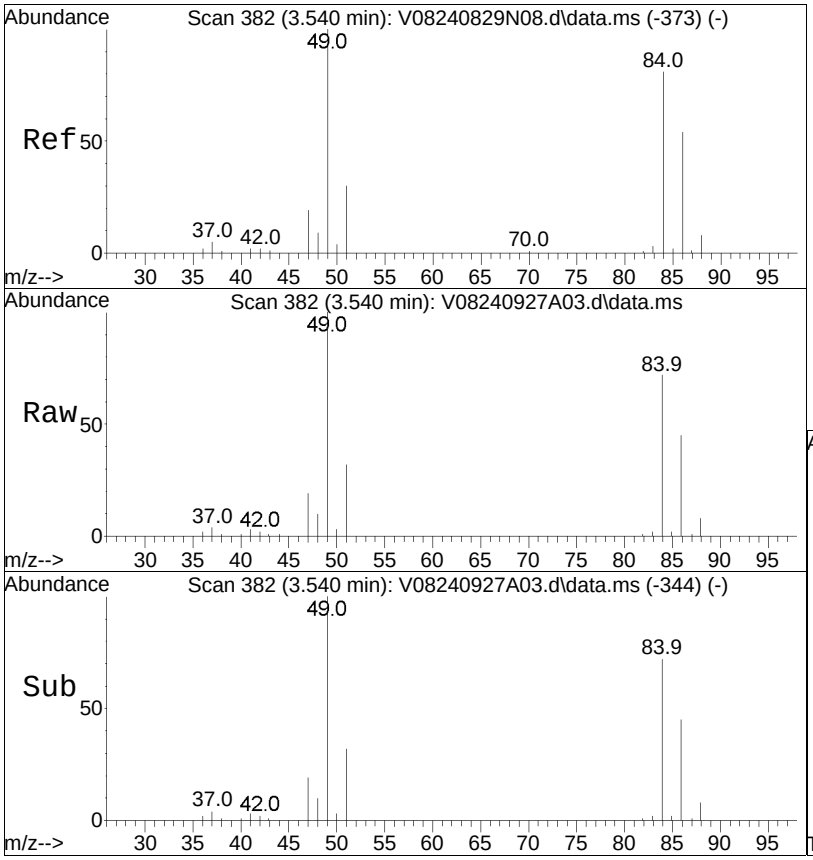


#12
Freon-113
Concen: 10.66 ug/L
RT: 3.026 min Scan# 284
Delta R.T. -0.000 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion:101 Resp: 30892

Ion	Ratio	Lower	Upper
101	100		
151	77.5	59.8	89.8

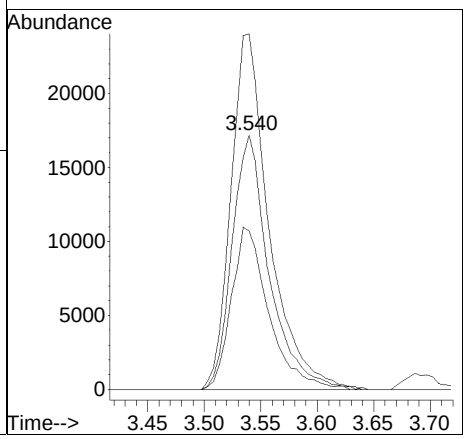


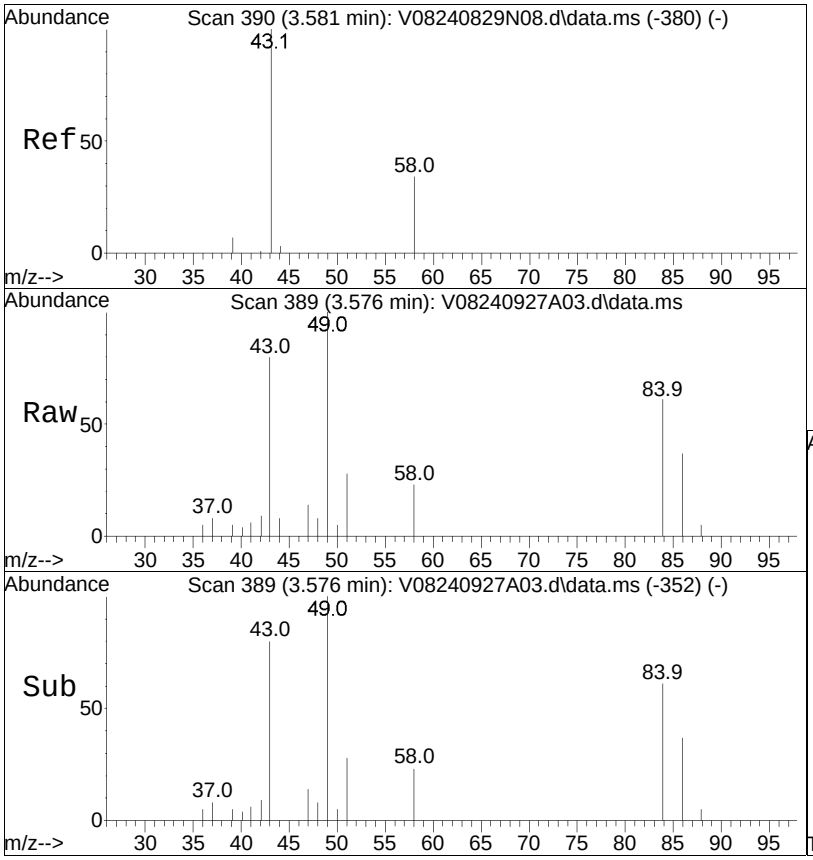


#15
Methylene chloride
Concen: 10.11 ug/L
RT: 3.540 min Scan# 382
Delta R.T. -0.000 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 84 Resp: 39273

Ion	Ratio	Lower	Upper
84	100		
86	64.4	40.4	83.8
49	143.8	120.0	249.2

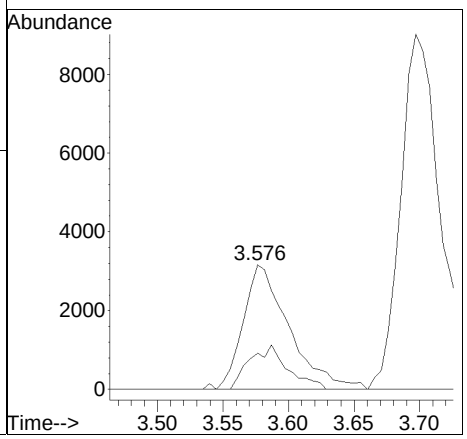


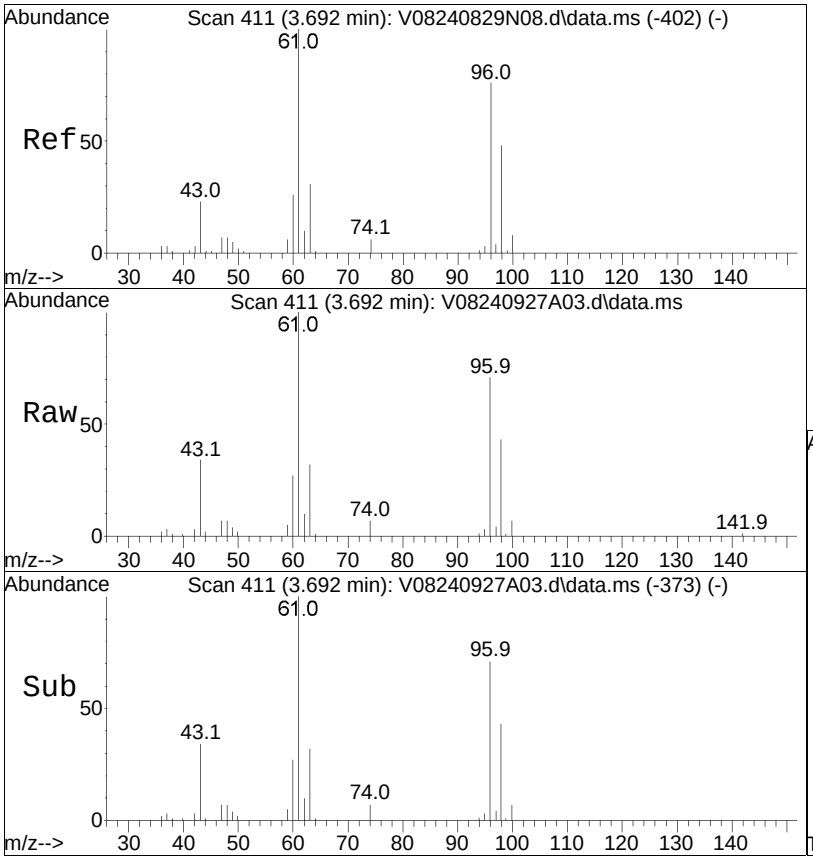


#17
Acetone
Concen: 11.15 ug/L
RT: 3.576 min Scan# 389
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 43 Resp: 7743

Ion	Ratio	Lower	Upper
43	100		
58	29.7	24.2	36.4

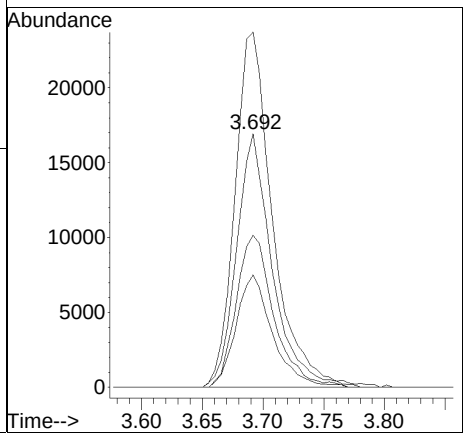


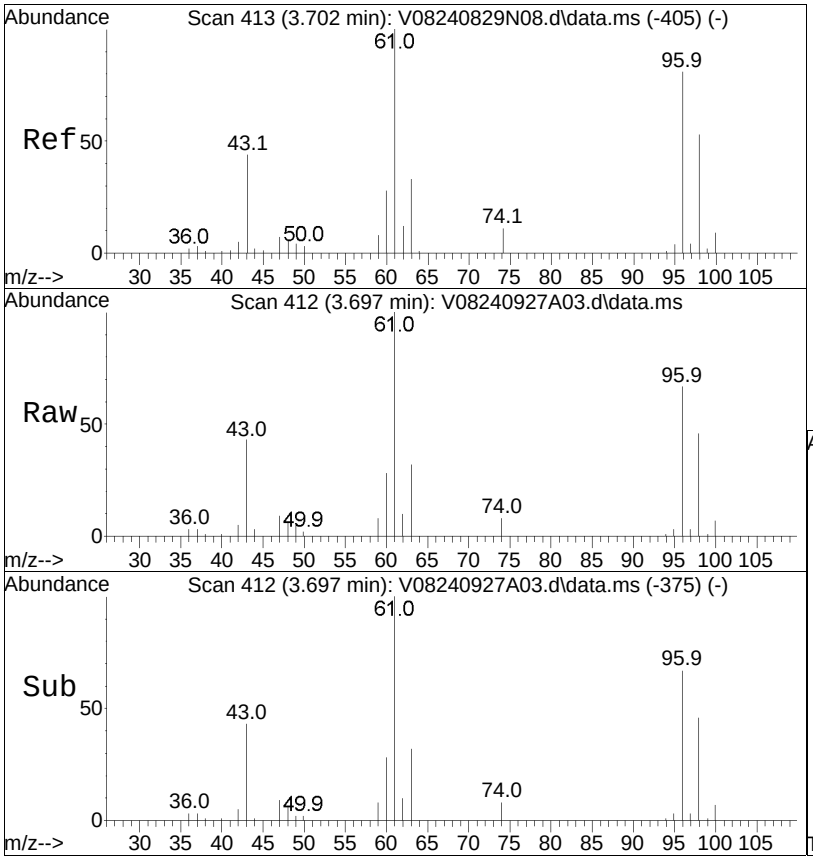


#18
trans-1,2-Dichloroethene
Concen: 9.65 ug/L
RT: 3.692 min Scan# 411
Delta R.T. -0.000 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 96 Resp: 34708

Ion	Ratio	Lower	Upper
96	100		
61	148.1	124.0	257.6
98	63.5	41.2	85.6
63	45.6	38.4	79.7

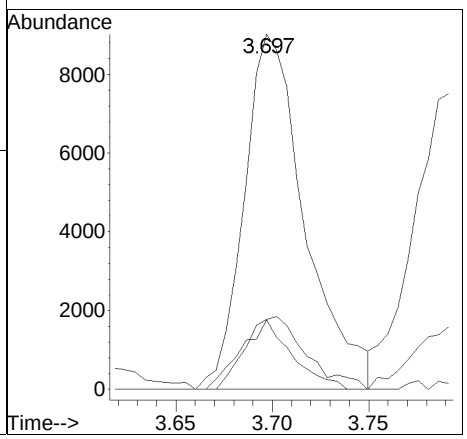


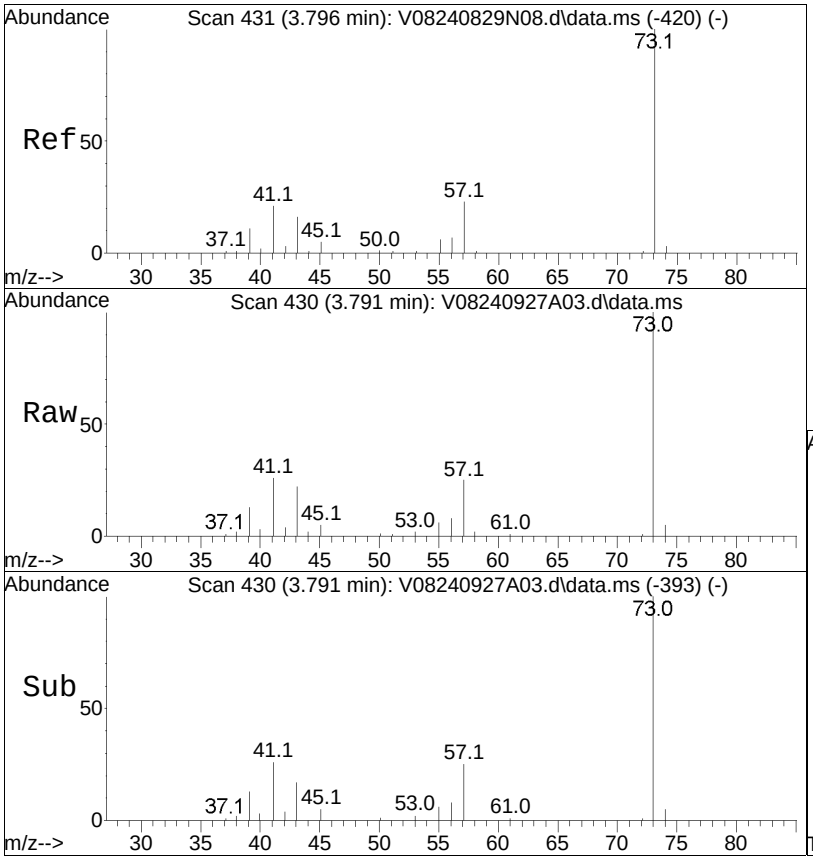


#19
Methyl acetate
Concen: 11.68 ug/L
RT: 3.697 min Scan# 412
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 43 Resp: 19813

Ion	Ratio	Lower	Upper
43	100		
74	20.5	14.2	21.4
59	16.4	5.0	7.6#

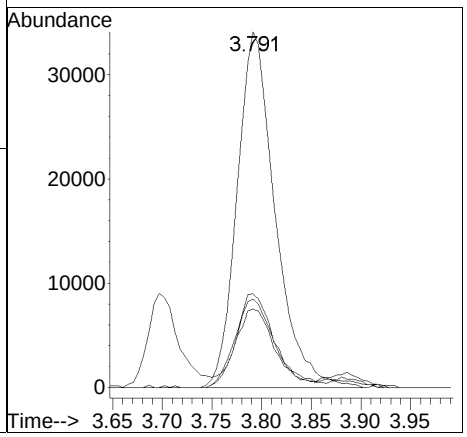


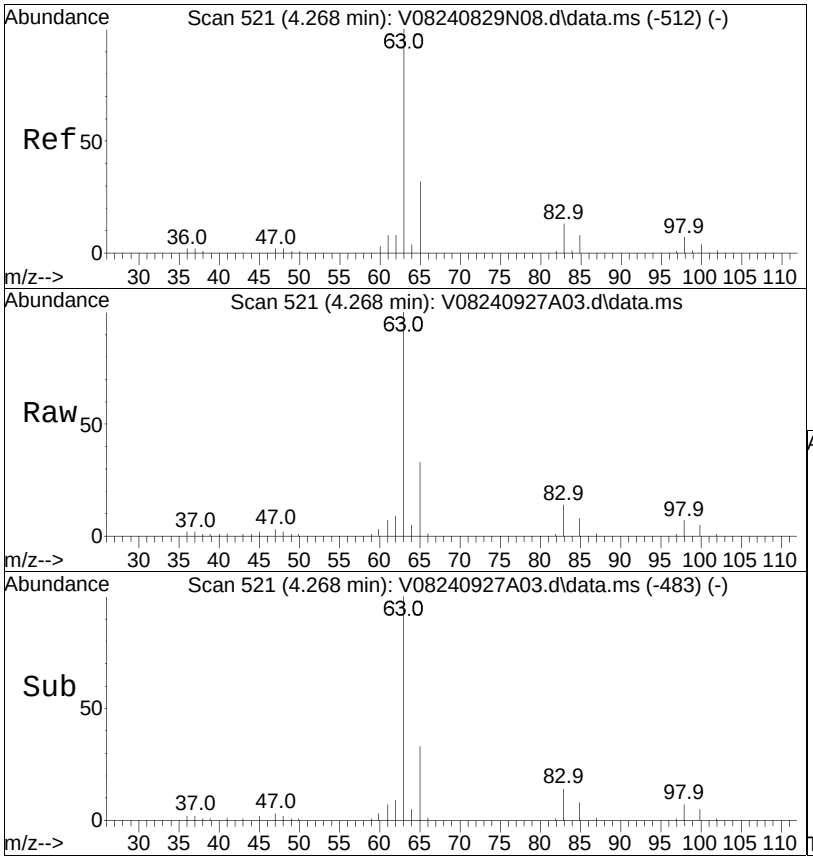


#20
Methyl tert-butyl ether
Concen: 9.19 ug/L
RT: 3.791 min Scan# 430
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 73 Resp: 90725

Ion	Ratio	Lower	Upper
73	100		
57	25.4	17.5	36.3
43	23.3	15.3	31.9
41	27.2	15.3	31.7

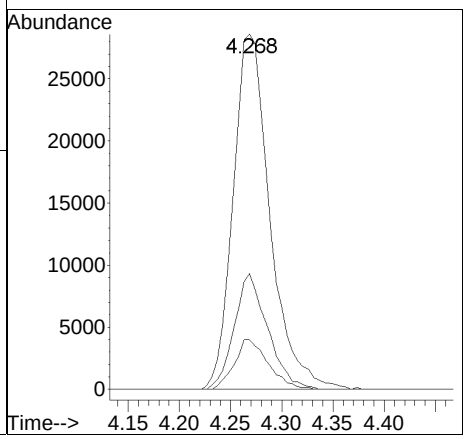


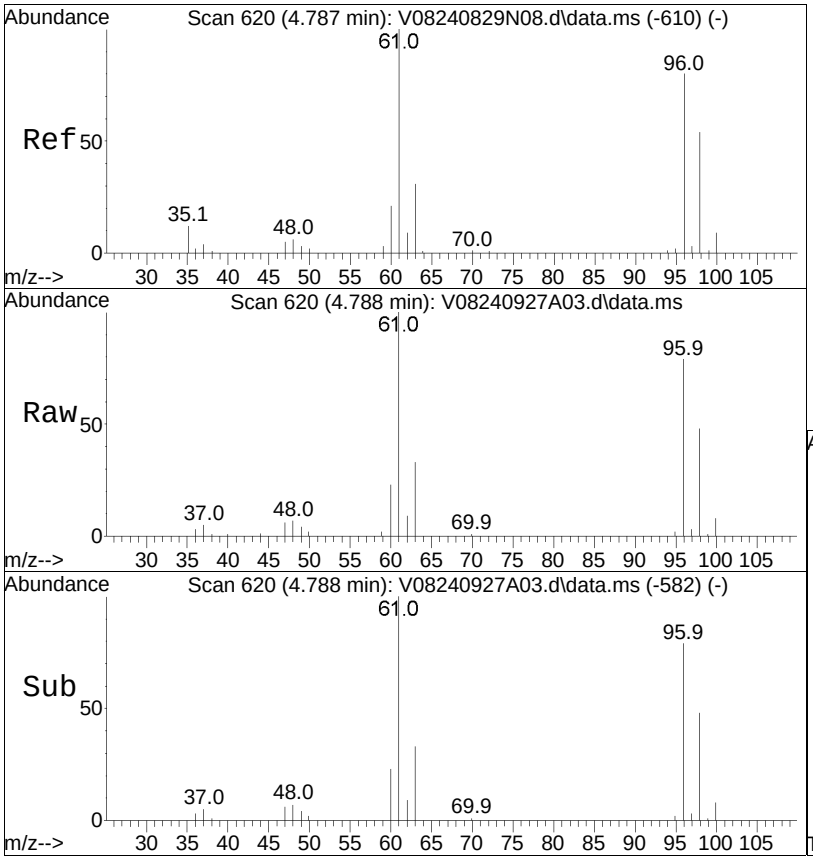


#23
1,1-Dichloroethane
Concen: 11.44 ug/L
RT: 4.268 min Scan# 521
Delta R.T. 0.000 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 63 Resp: 71552

Ion	Ratio	Lower	Upper
63	100		
65	29.6	11.0	51.0
83	13.0	0.0	31.8

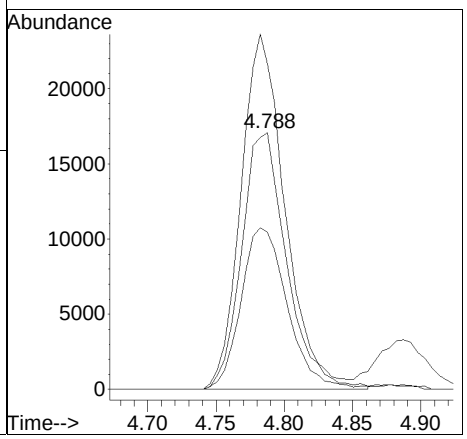


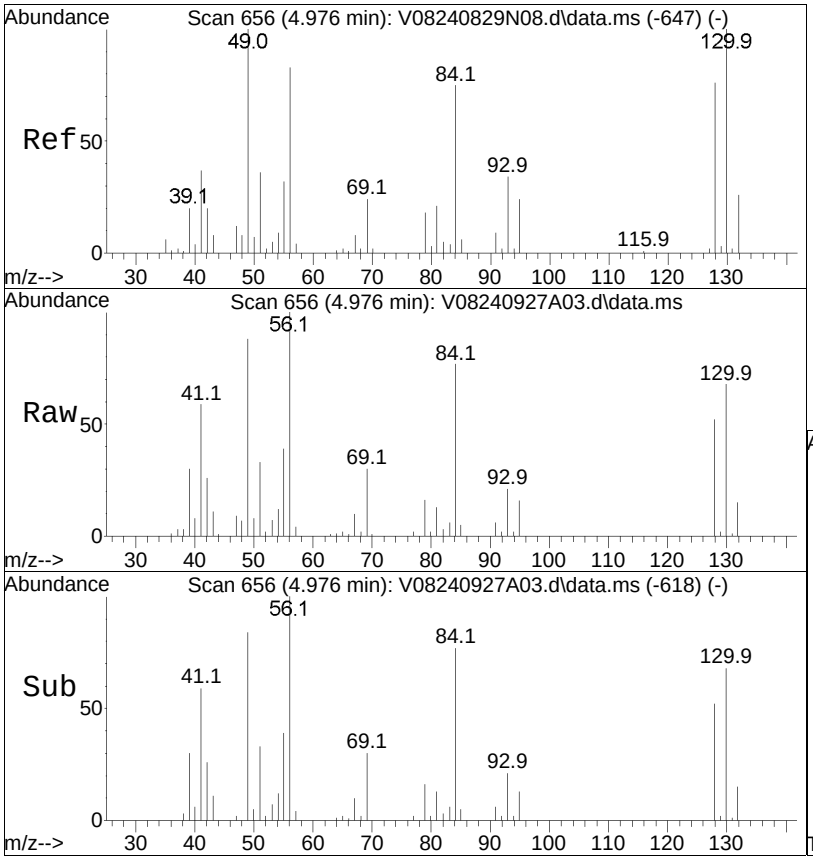


#28
cis-1,2-Dichloroethene
Concen: 9.45 ug/L
RT: 4.788 min Scan# 620
Delta R.T. 0.001 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 96 Resp: 39142

Ion	Ratio	Lower	Upper
96	100		
61	135.6	149.4	224.2#
98	65.0	53.4	80.2

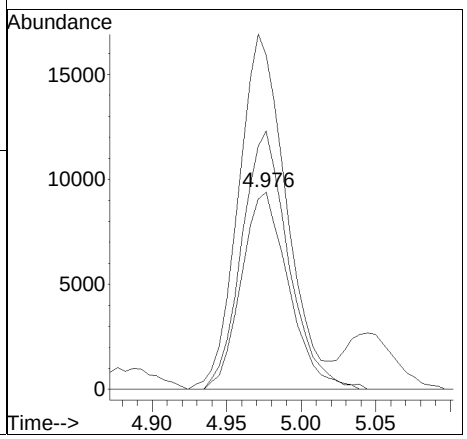


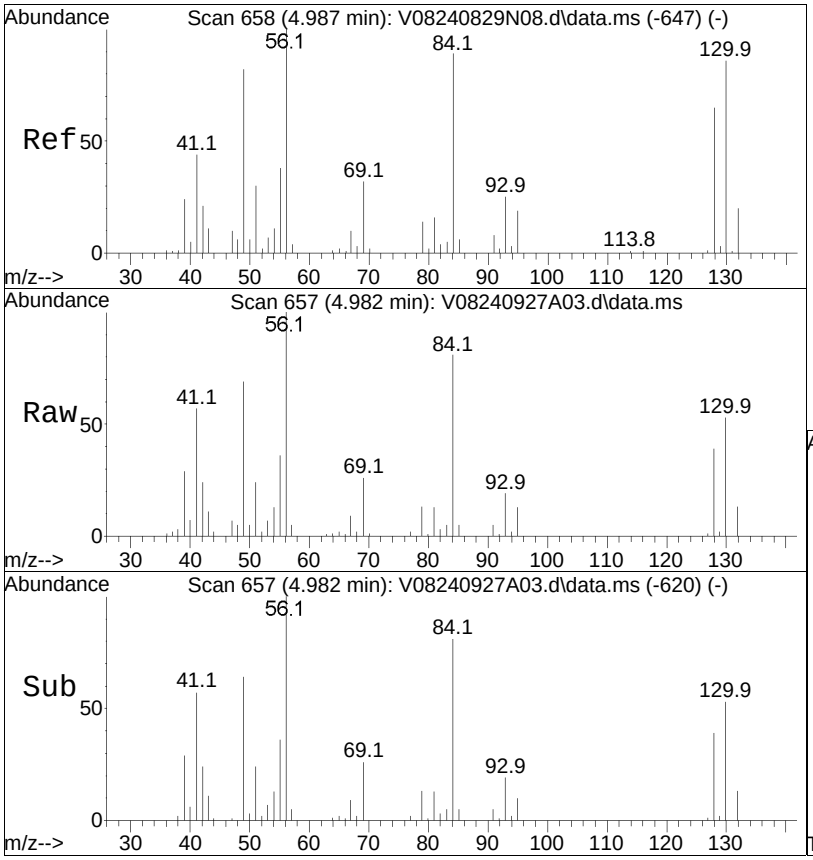


#30
Bromochloromethane
Concen: 8.79 ug/L
RT: 4.976 min Scan# 656
Delta R.T. 0.000 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion:128 Resp: 20779

Ion	Ratio	Lower	Upper
128	100		
49	182.0	223.0	334.4#
130	129.4	111.4	167.0

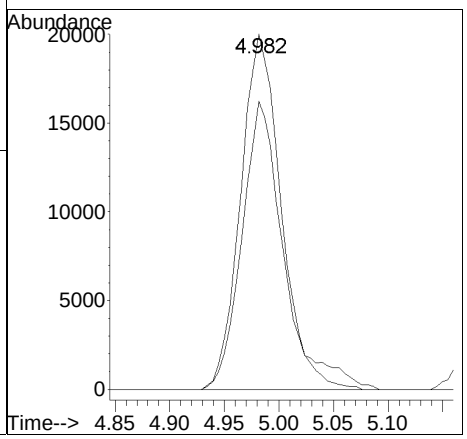


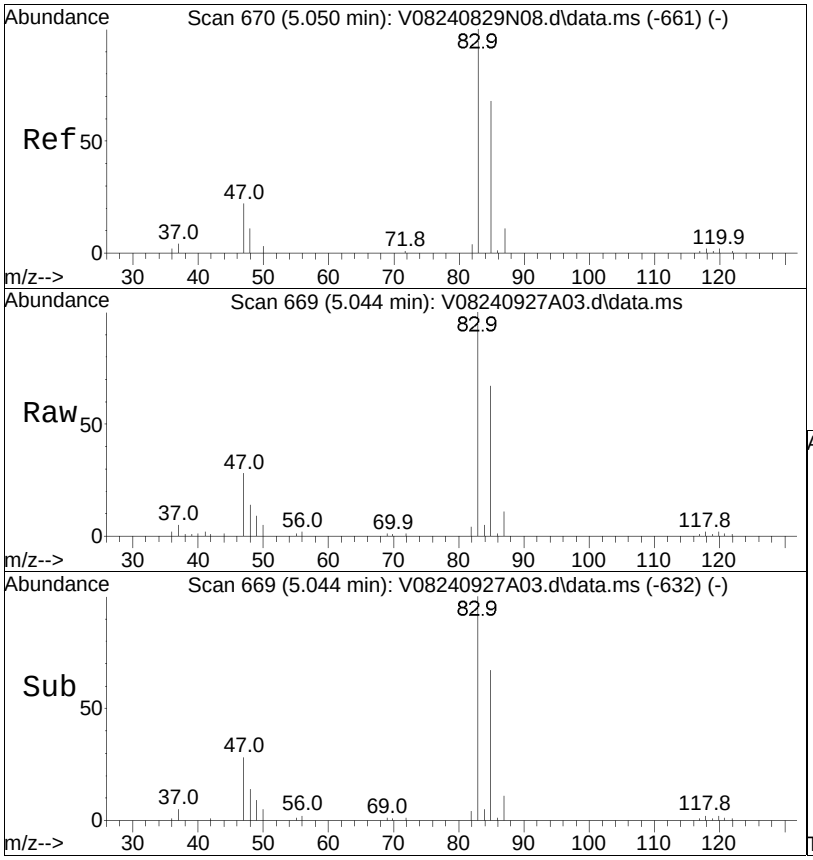


#31
Cyclohexane
Concen: 16.17 ug/L
RT: 4.982 min Scan# 657
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 56 Resp: 51667

Ion	Ratio	Lower	Upper
56	100		
84	83.9	38.4	79.8#

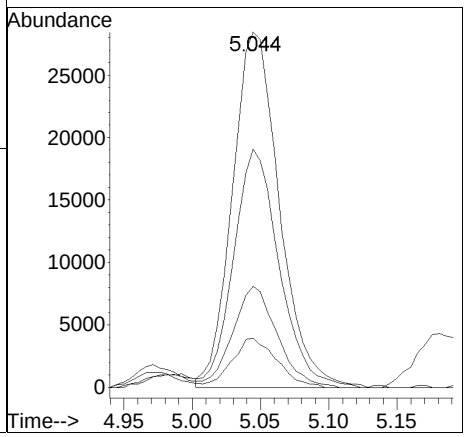


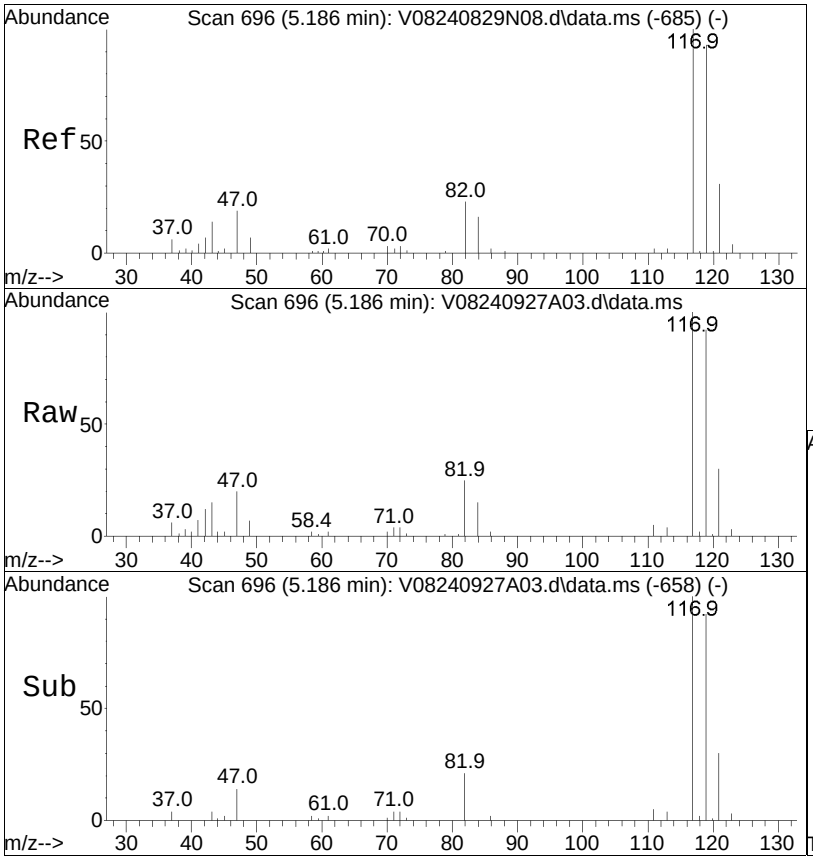


#32
Chloroform
Concen: 10.22 ug/L
RT: 5.044 min Scan# 669
Delta R.T. -0.006 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 83 Resp: 68110

Ion	Ratio	Lower	Upper
83	100		
85	65.2	41.5	86.1
47	27.0	19.0	39.4
48	13.2	9.9	20.5

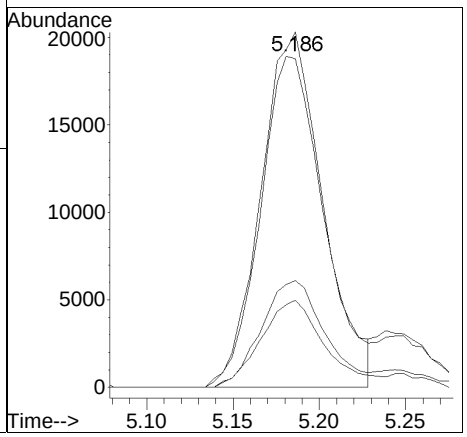


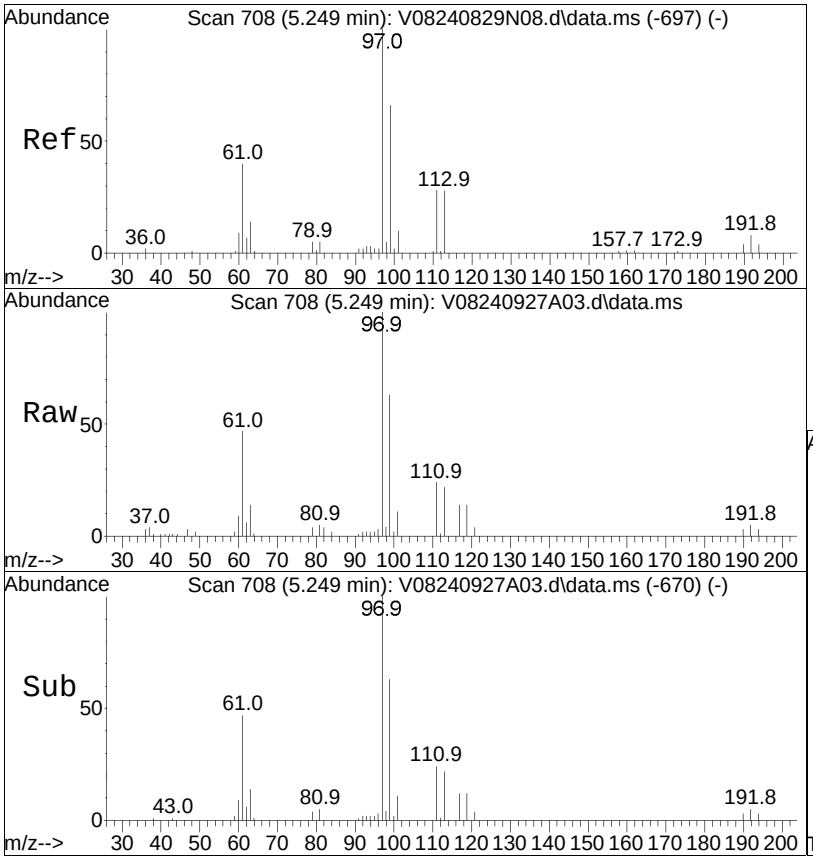


#34
Carbon tetrachloride
Concen: 9.77 ug/L
RT: 5.186 min Scan# 696
Delta R.T. 0.000 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion:117 Resp: 50826

Ion	Ratio	Lower	Upper
117	100		
119	94.7	62.4	129.6
121	30.8	19.5	40.5
82	25.6	17.0	35.4

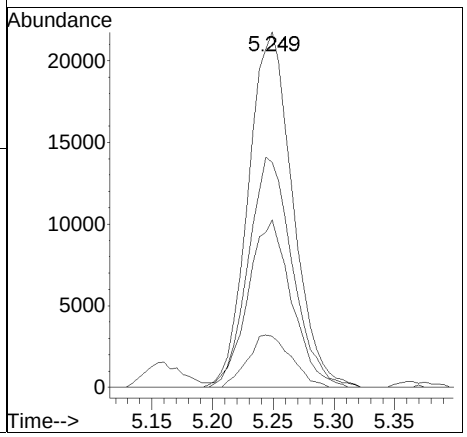


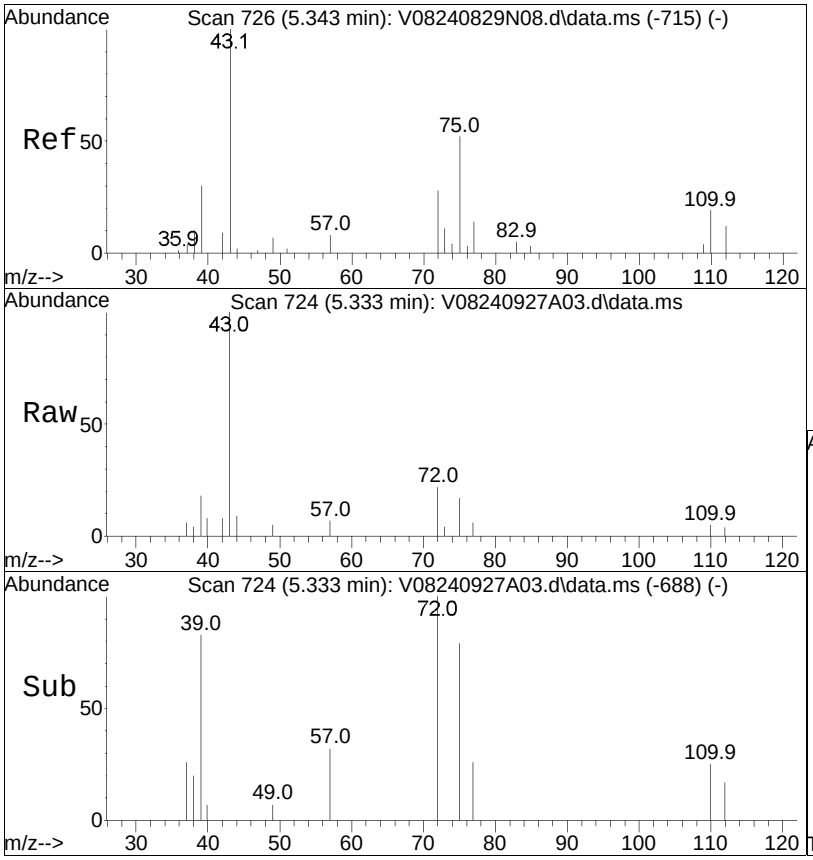


#37
1,1,1-Trichloroethane
Concen: 9.97 ug/L
RT: 5.249 min Scan# 708
Delta R.T. -0.000 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 97 Resp: 55435

Ion	Ratio	Lower	Upper
97	100		
99	64.6	40.7	84.5
61	46.8	35.4	73.4
63	14.5	5.0	10.4#

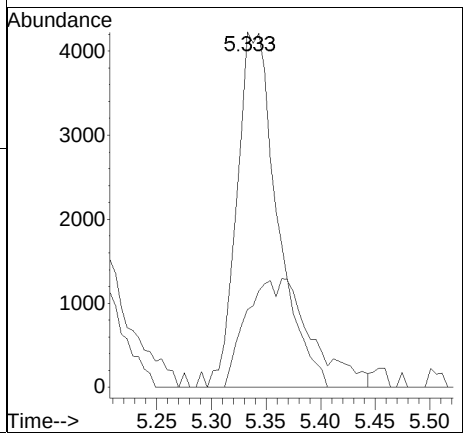


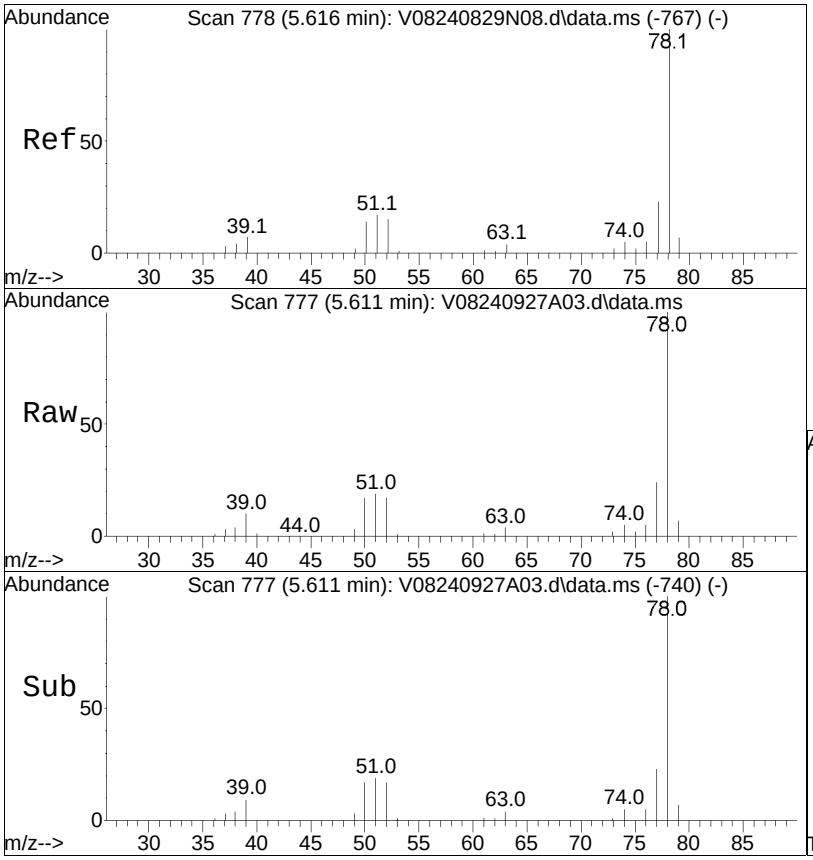


#39
2-Butanone
Concen: 11.82 ug/L
RT: 5.333 min Scan# 724
Delta R.T. -0.010 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 43 Resp: 11926

Ion	Ratio	Lower	Upper
43	100		
72	21.4	10.9	16.3#

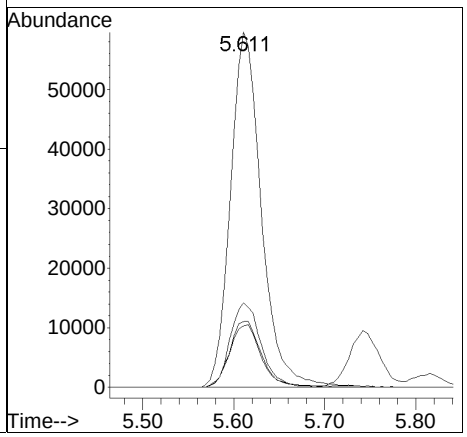


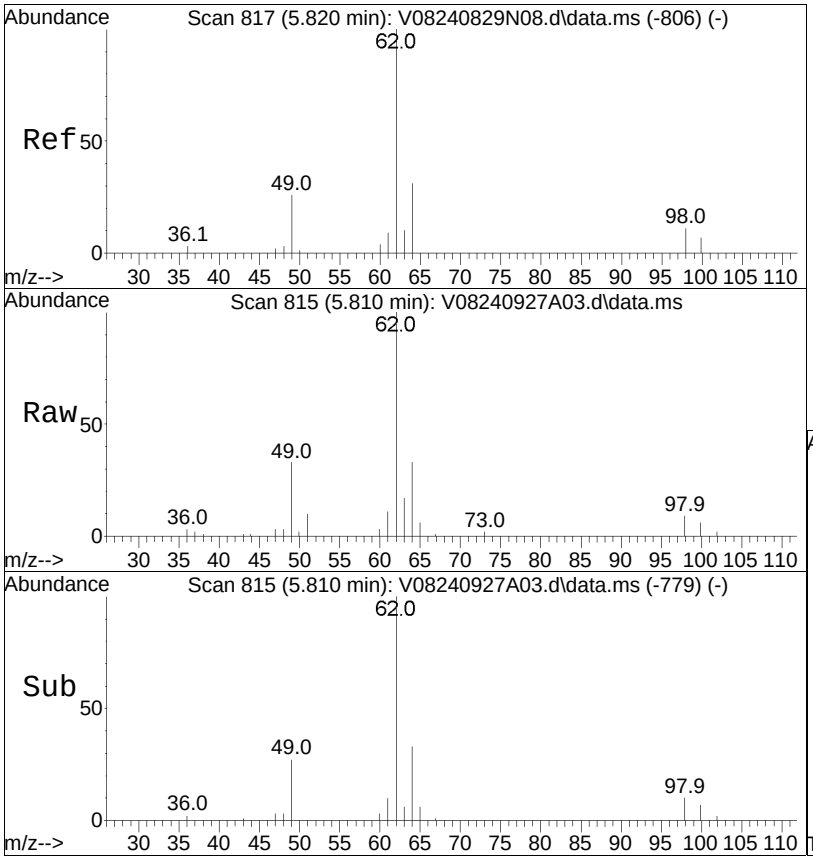


#41
Benzene
Concen: 10.09 ug/L
RT: 5.611 min Scan# 777
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 78 Resp: 141025

Ion	Ratio	Lower	Upper
78	100		
77	24.0	15.7	32.7
51	19.1	16.0	33.2
52	18.0	15.3	31.9

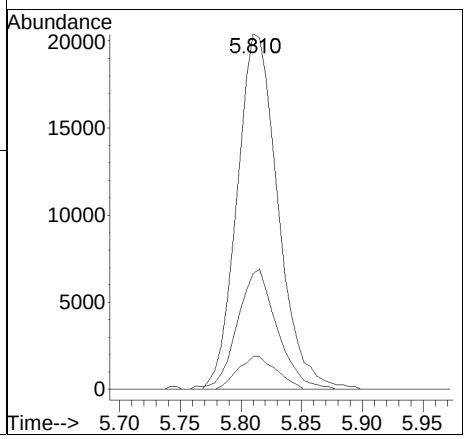


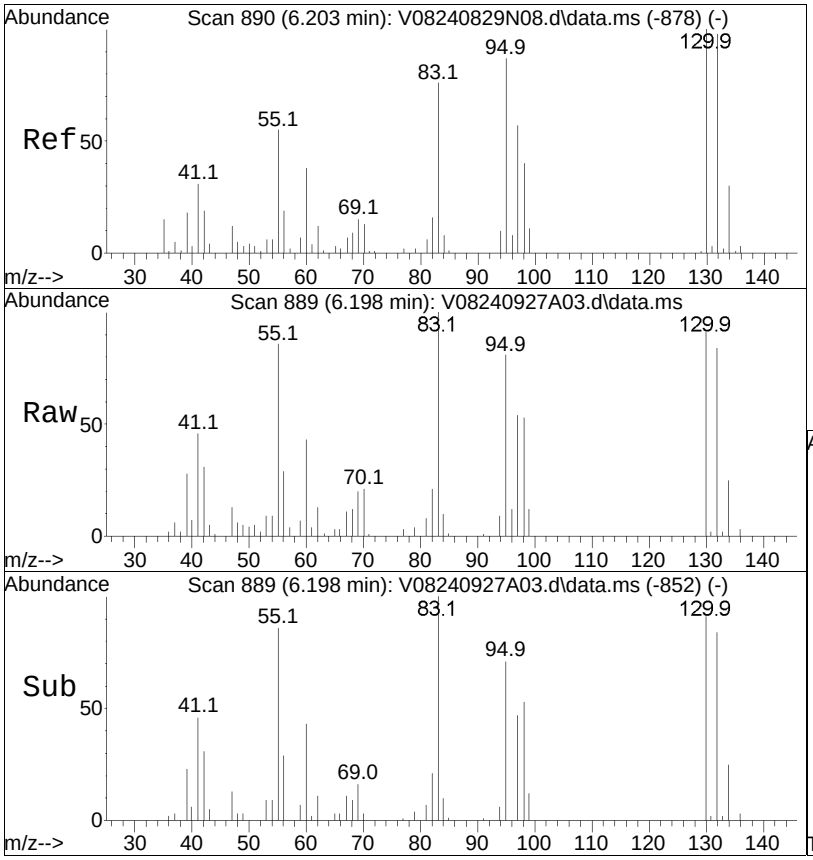


#44
1,2-Dichloroethane
Concen: 10.57 ug/L
RT: 5.810 min Scan# 815
Delta R.T. -0.010 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 62 Resp: 47906

Ion	Ratio	Lower	Upper
62	100		
64	32.9	11.2	51.2
98	8.9	0.0	26.1

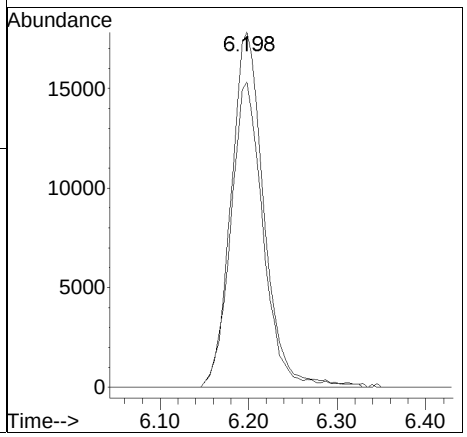


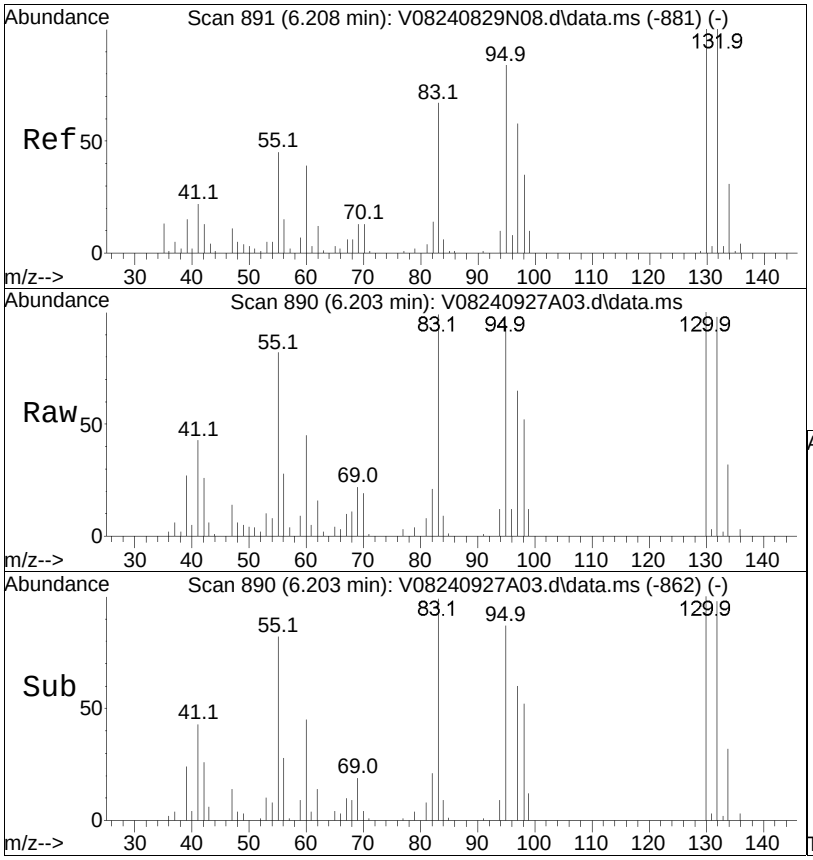


#47
Methyl cyclohexane
Concen: 15.14 ug/L
RT: 6.198 min Scan# 889
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 83 Resp: 46075

Ion	Ratio	Lower	Upper
83	100		
55	84.1	88.3	132.5#

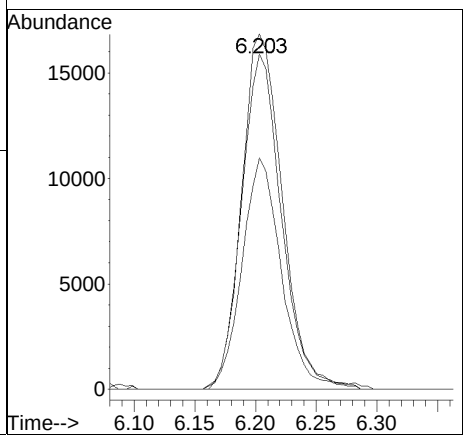


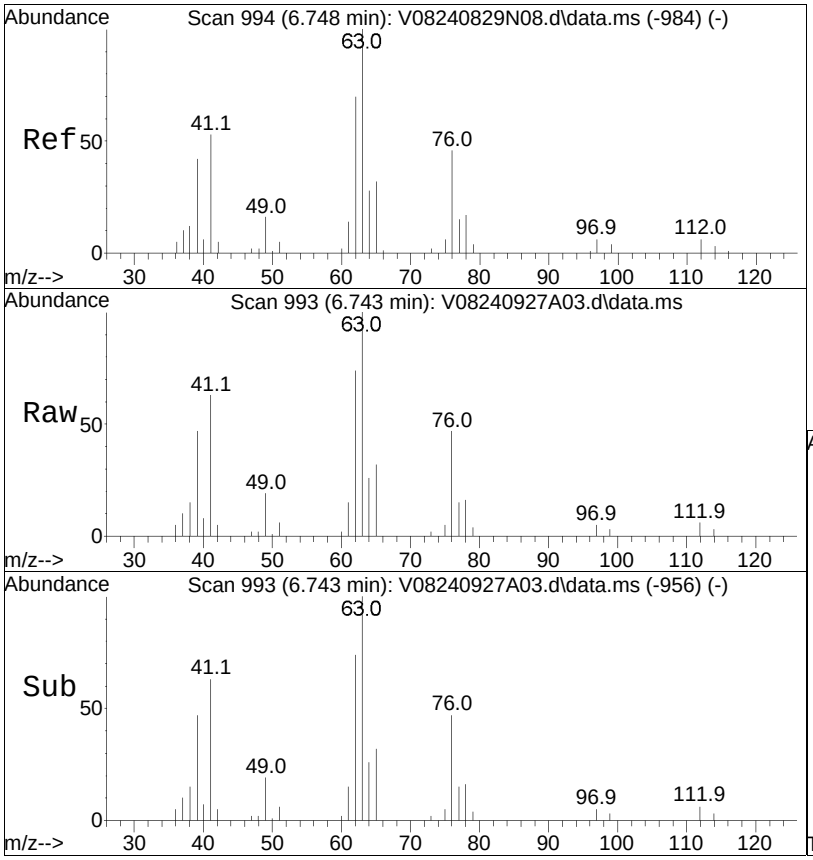


#48
Trichloroethene
Concen: 9.51 ug/L
RT: 6.203 min Scan# 890
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 95 Resp: 36496

Ion	Ratio	Lower	Upper
95	100		
97	68.1	55.5	83.3
130	108.2	76.6	115.0

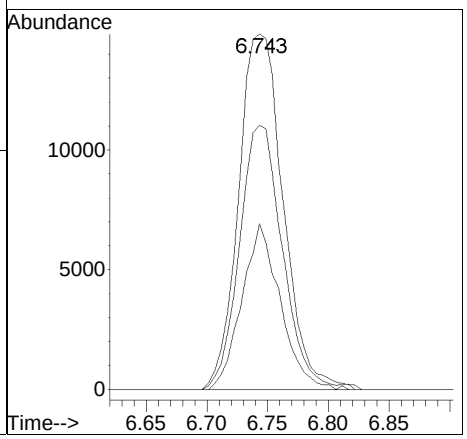


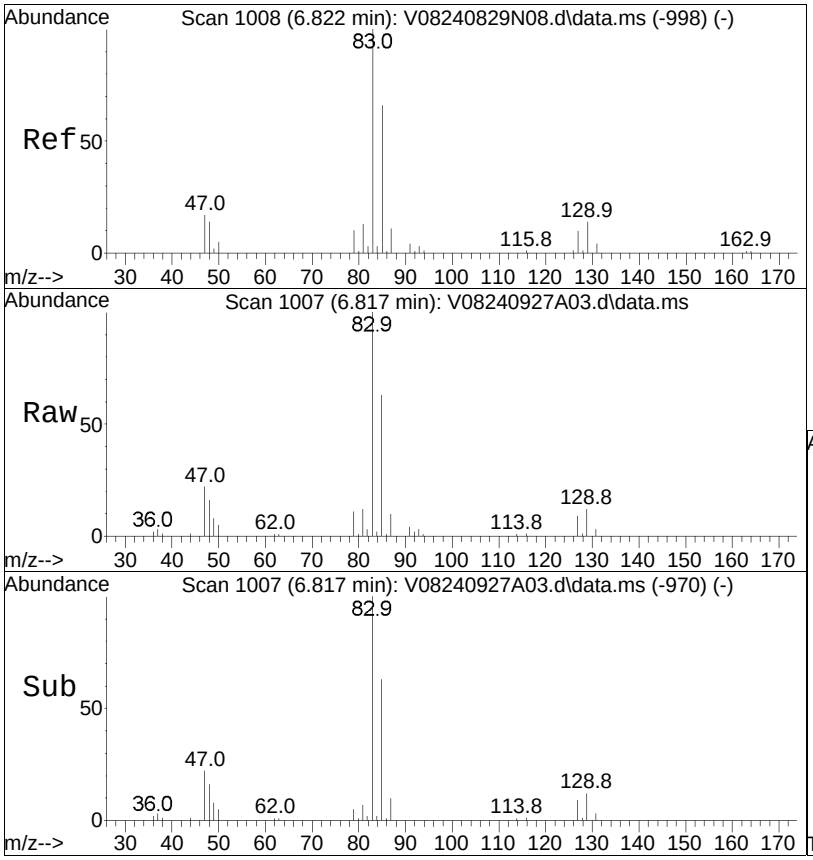


#51
1,2-Dichloropropane
Concen: 10.88 ug/L
RT: 6.743 min Scan# 993
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 63 Resp: 37960

Ion	Ratio	Lower	Upper
63	100		
62	71.6	58.6	87.8
76	40.1	38.0	57.0

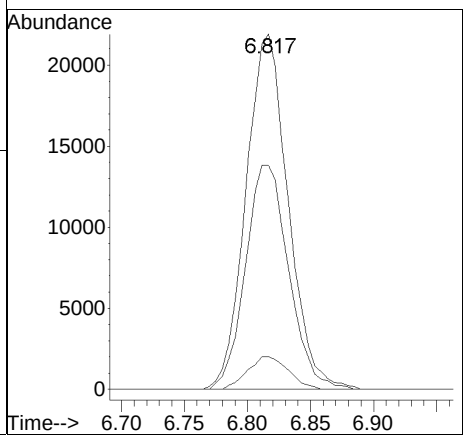


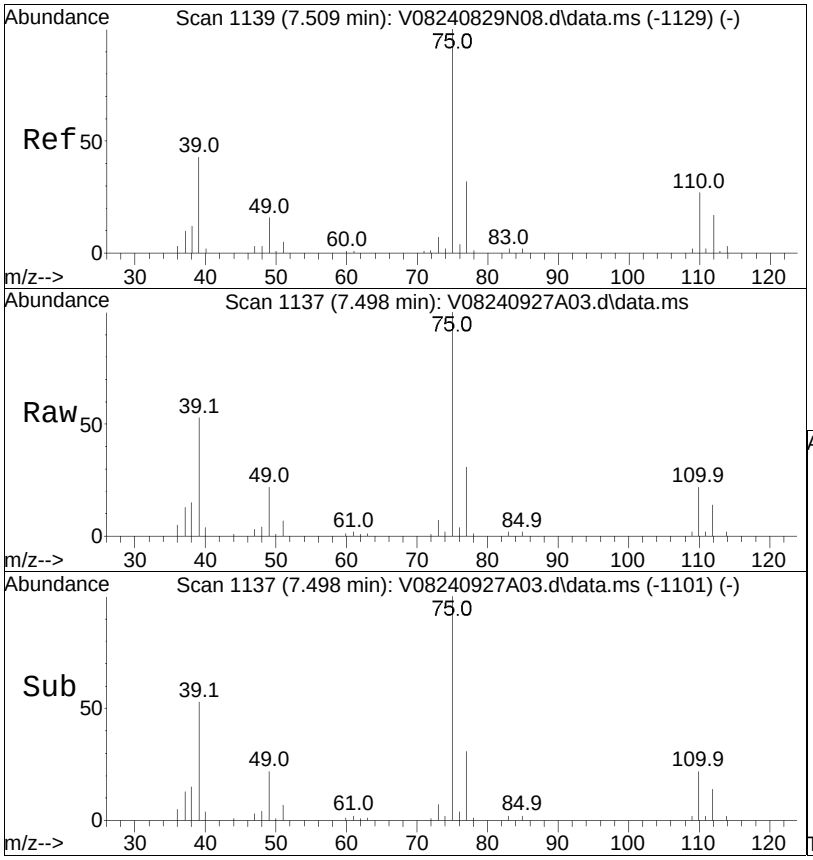


#54
Bromodichloromethane
Concen: 9.76 ug/L
RT: 6.817 min Scan# 1007
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 83 Resp: 50993

Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.3	78.5
127	9.0	6.2	9.4

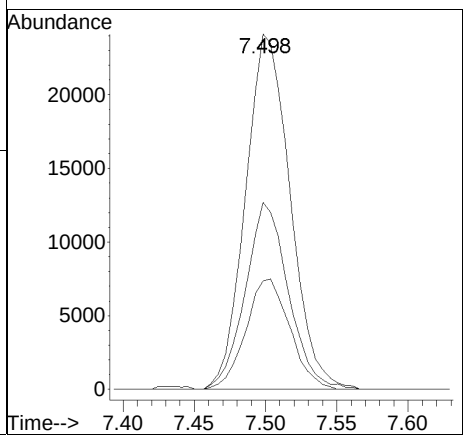


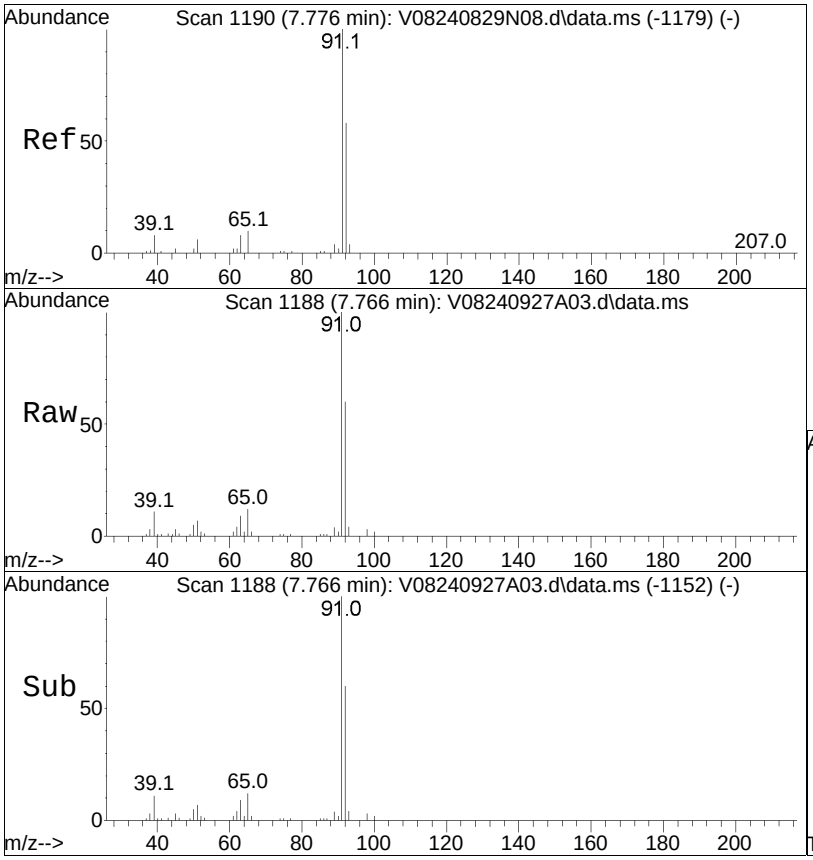


#58
cis-1,3-Dichloropropene
Concen: 9.49 ug/L
RT: 7.498 min Scan# 1137
Delta R.T. -0.011 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 75 Resp: 52577

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.0	37.4
39	50.8	50.1	75.1

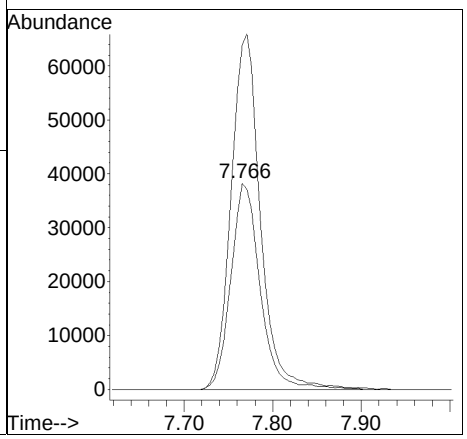


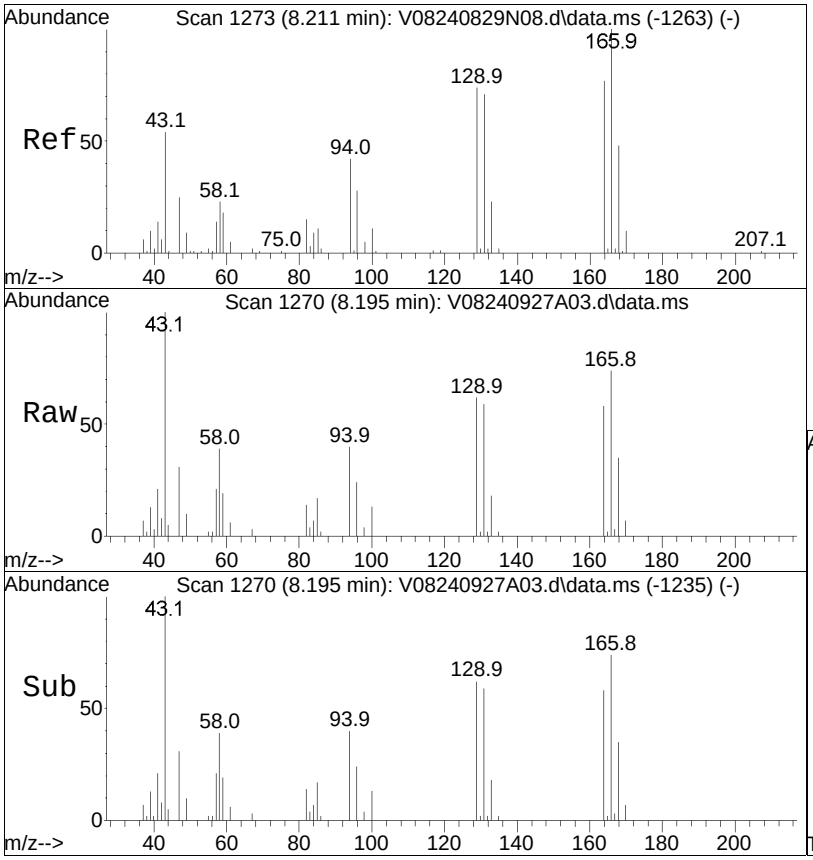


#61
Toluene
Concen: 10.79 ug/L
RT: 7.766 min Scan# 1188
Delta R.T. -0.010 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 92 Resp: 88002

Ion	Ratio	Lower	Upper
92	100		
91	172.3	139.8	209.6

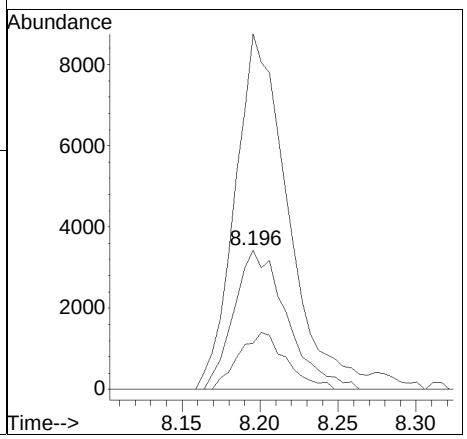


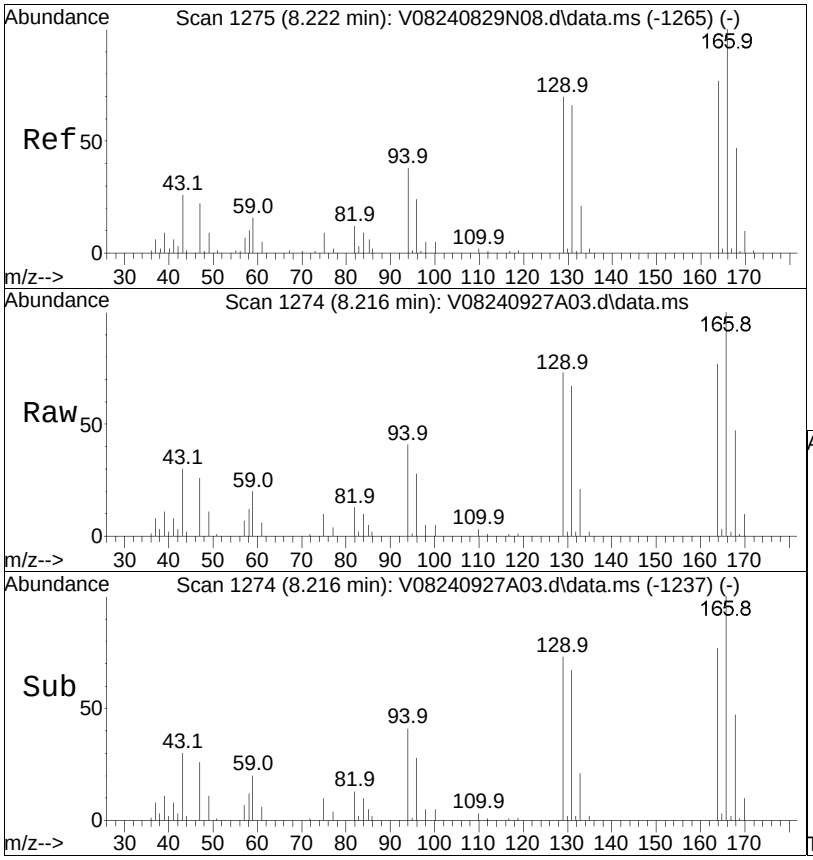


#62
4-Methyl-2-pentanone
Concen: 9.74 ug/L
RT: 8.195 min Scan# 1270
Delta R.T. -0.016 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 58 Resp: 8113

Ion	Ratio	Lower	Upper
58	100		
100	36.9	20.2	30.2#
43	254.8	196.6	295.0

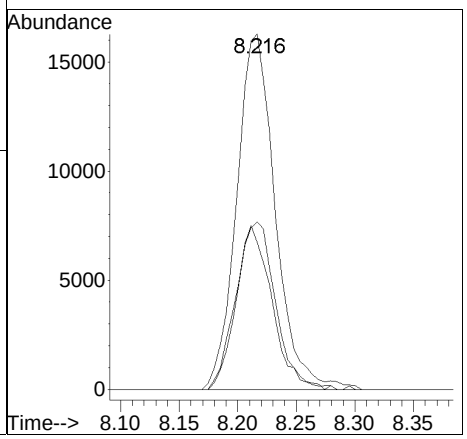


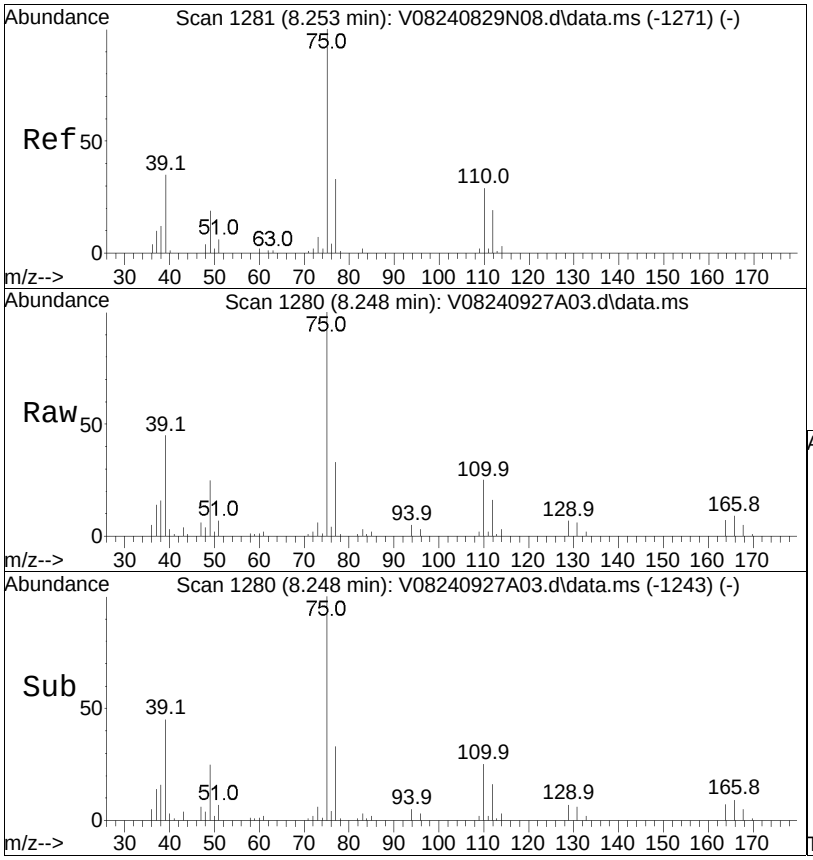


#63
Tetrachloroethene
Concen: 9.77 ug/L
RT: 8.216 min Scan# 1274
Delta R.T. -0.006 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion:166 Resp: 37373

Ion	Ratio	Lower	Upper
166	100		
168	47.1	28.2	68.2
94	44.0	38.4	78.4

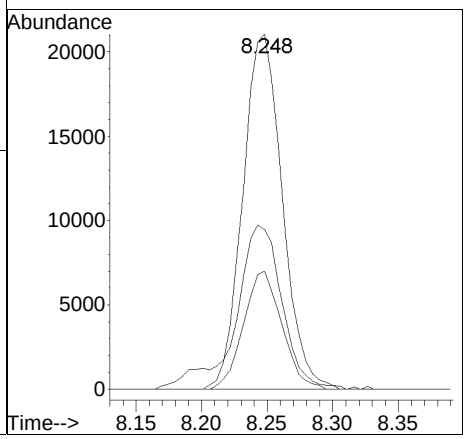


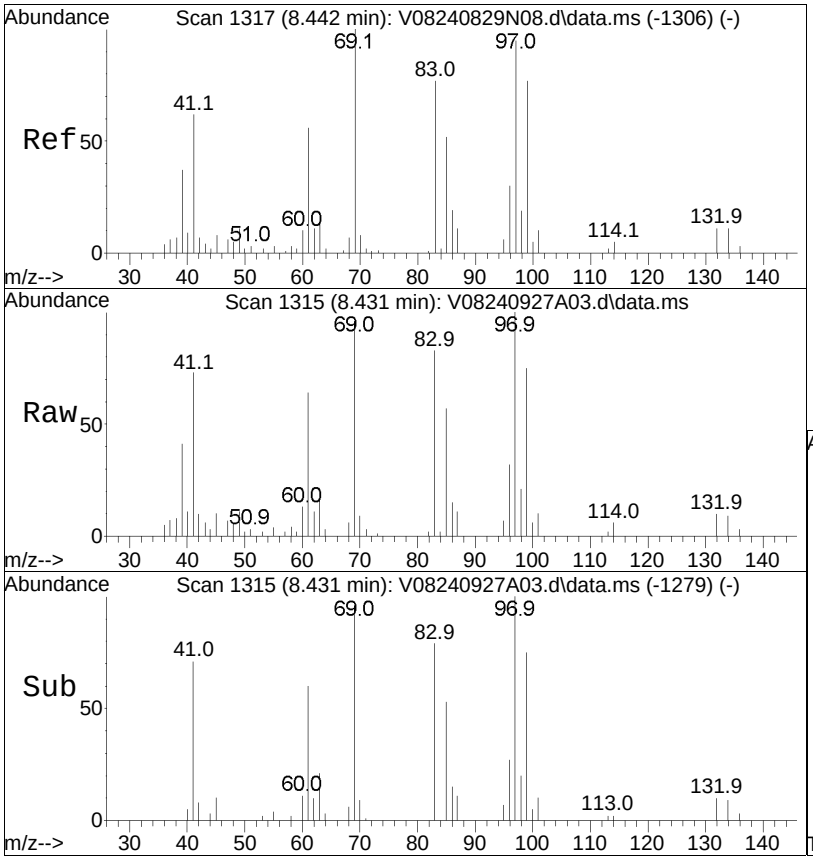


#65
trans-1,3-Dichloropropene
Concen: 10.29 ug/L
RT: 8.248 min Scan# 1280
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 75 Resp: 44331

Ion	Ratio	Lower	Upper
75	100		
77	32.2	12.4	52.4
39	54.3	42.8	82.8

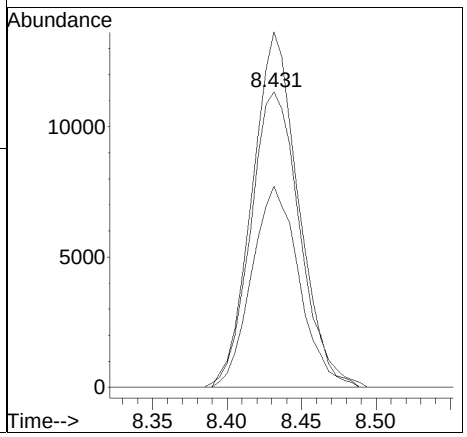


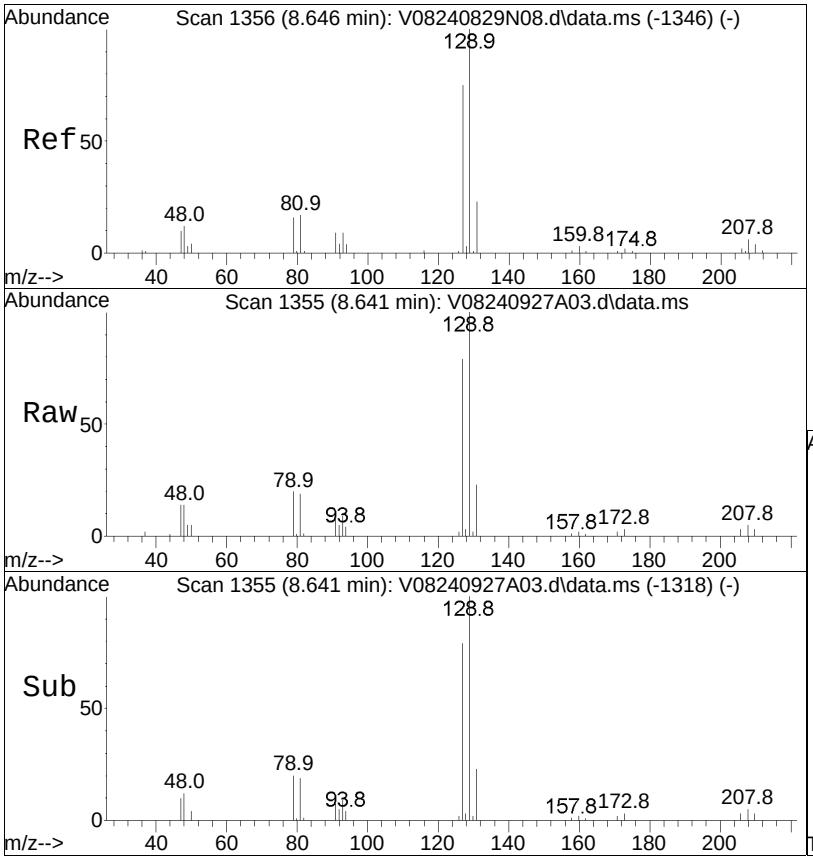


#68
1,1,2-Trichloroethane
Concen: 11.16 ug/L
RT: 8.431 min Scan# 1315
Delta R.T. -0.011 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 83 Resp: 25948

Ion	Ratio	Lower	Upper
83	100		
97	114.2	89.8	129.8
85	66.1	44.4	84.4

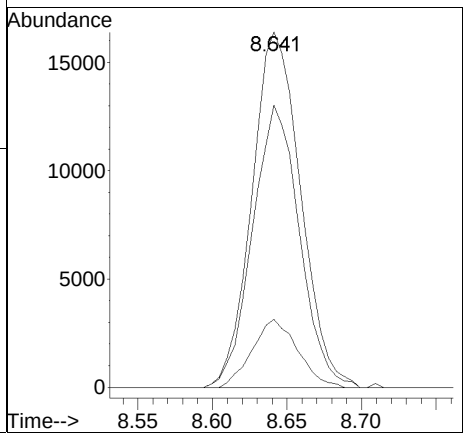


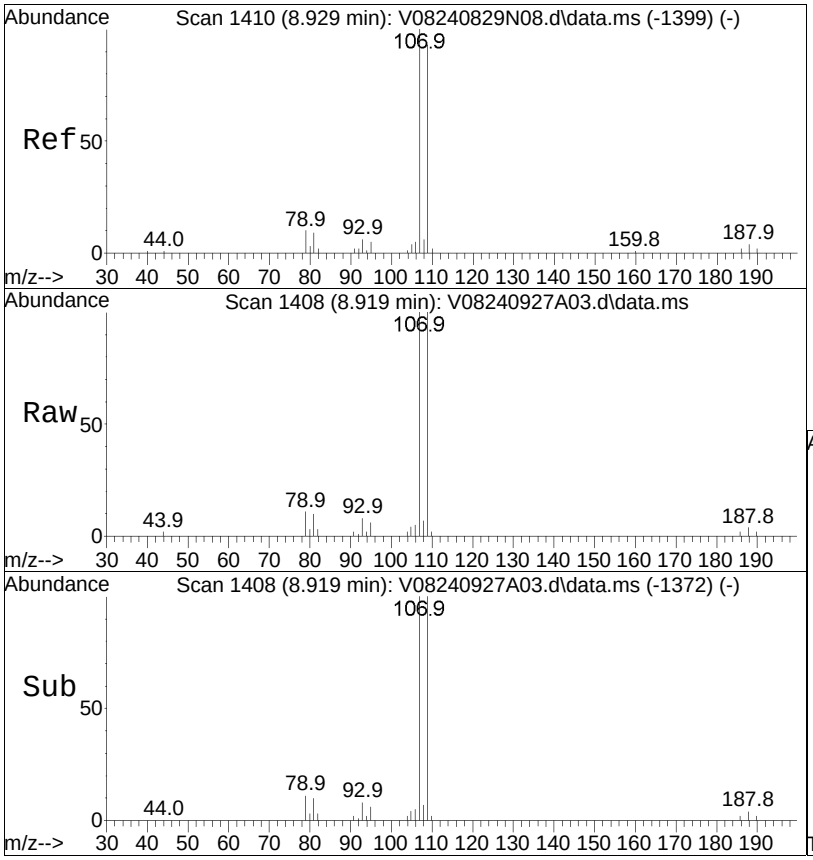


#69
Chlorodibromomethane
Concen: 9.05 ug/L
RT: 8.641 min Scan# 1355
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion:129 Resp: 37290

Ion	Ratio	Lower	Upper
129	100		
81	17.9	2.9	42.9
127	76.7	57.8	97.8

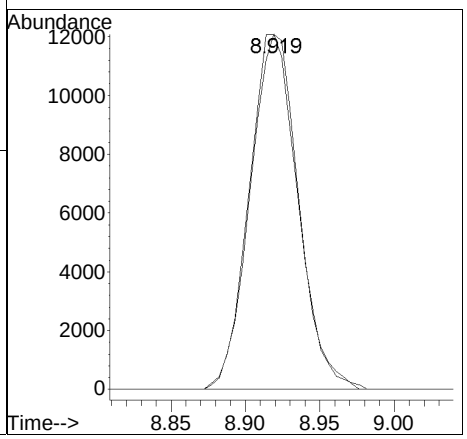


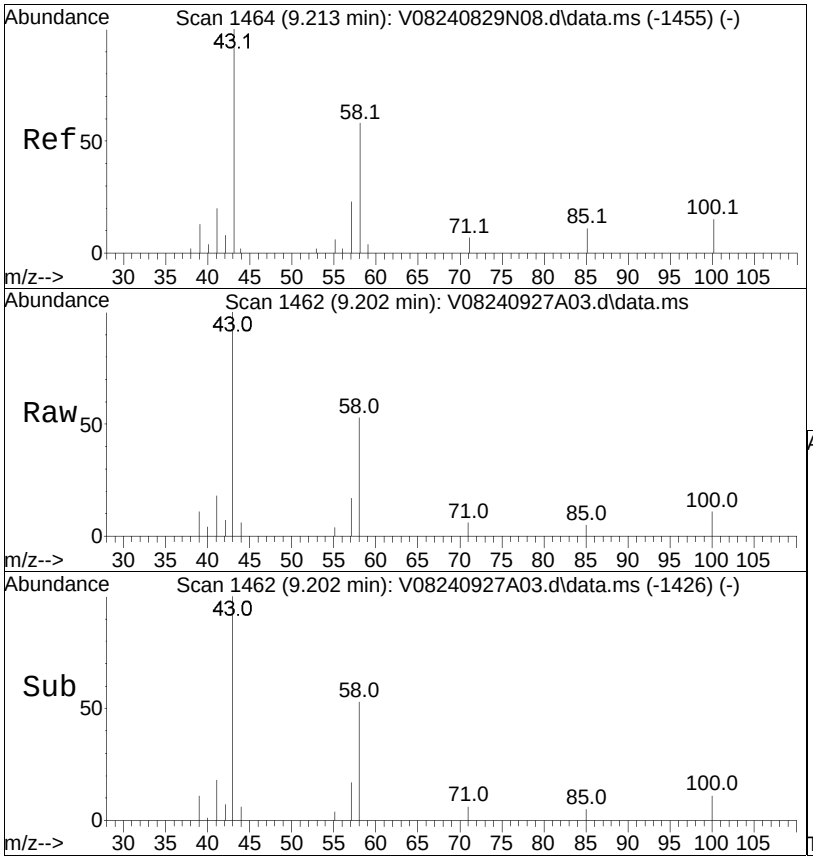


#71
1,2-Dibromoethane
Concen: 9.87 ug/L
RT: 8.919 min Scan# 1408
Delta R.T. -0.010 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion:107 Resp: 27978

Ion	Ratio	Lower	Upper
107	100		
109	96.0	74.3	111.5

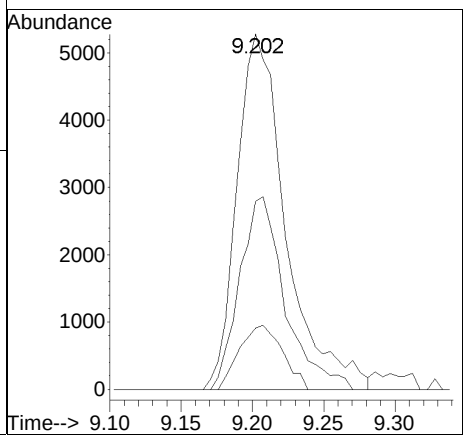


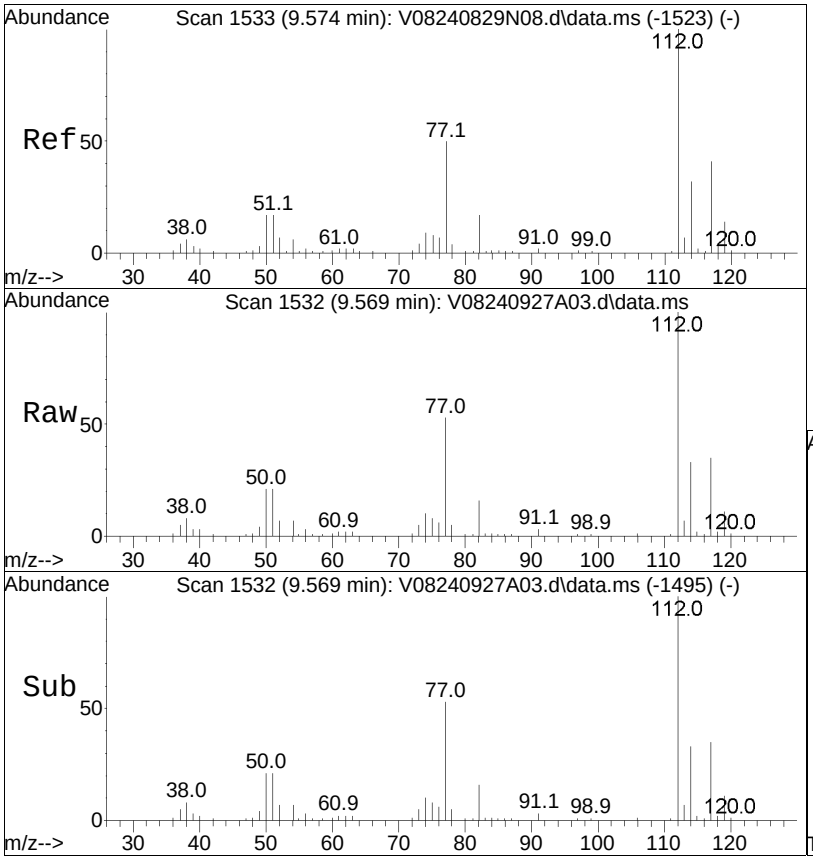


#72
2-Hexanone
Concen: 10.10 ug/L
RT: 9.202 min Scan# 1462
Delta R.T. -0.011 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 43 Resp: 12613

Ion	Ratio	Lower	Upper
43	100		
58	50.2	41.2	61.8
57	15.9	17.2	25.8#

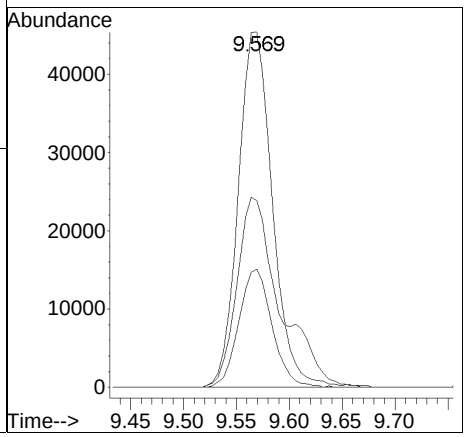


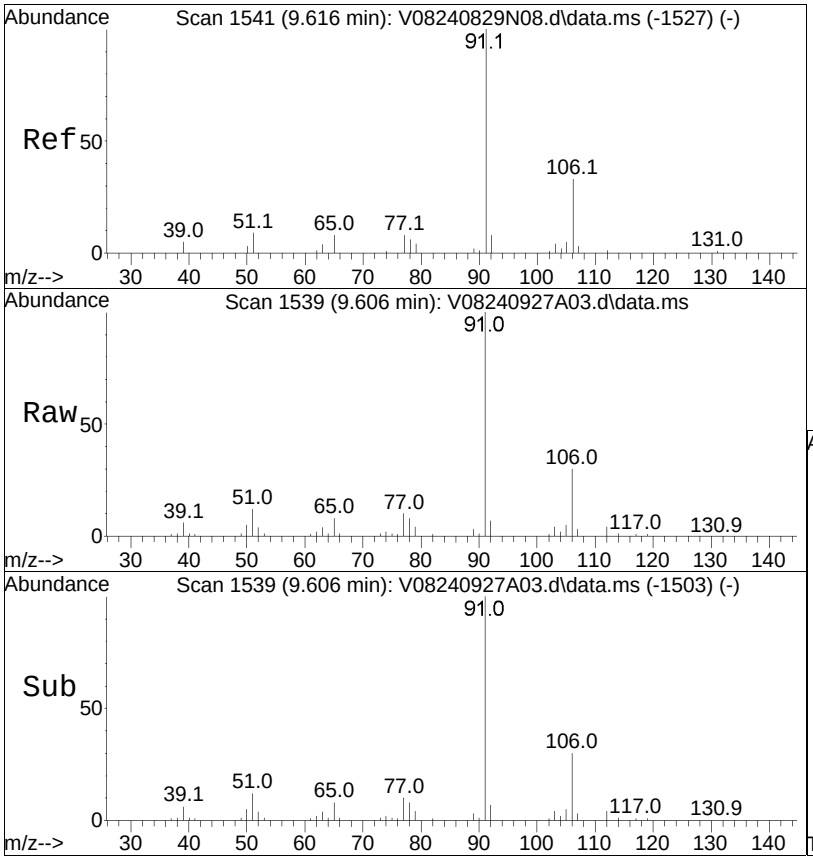


#73
Chlorobenzene
Concen: 10.12 ug/L
RT: 9.569 min Scan# 1532
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion:112 Resp: 102380

Ion	Ratio	Lower	Upper
112	100		
77	67.4	55.4	83.0
114	32.3	25.4	38.2

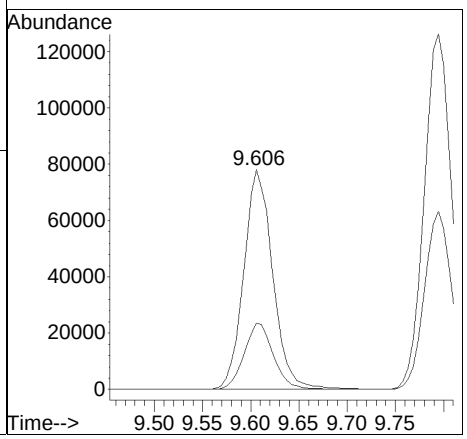


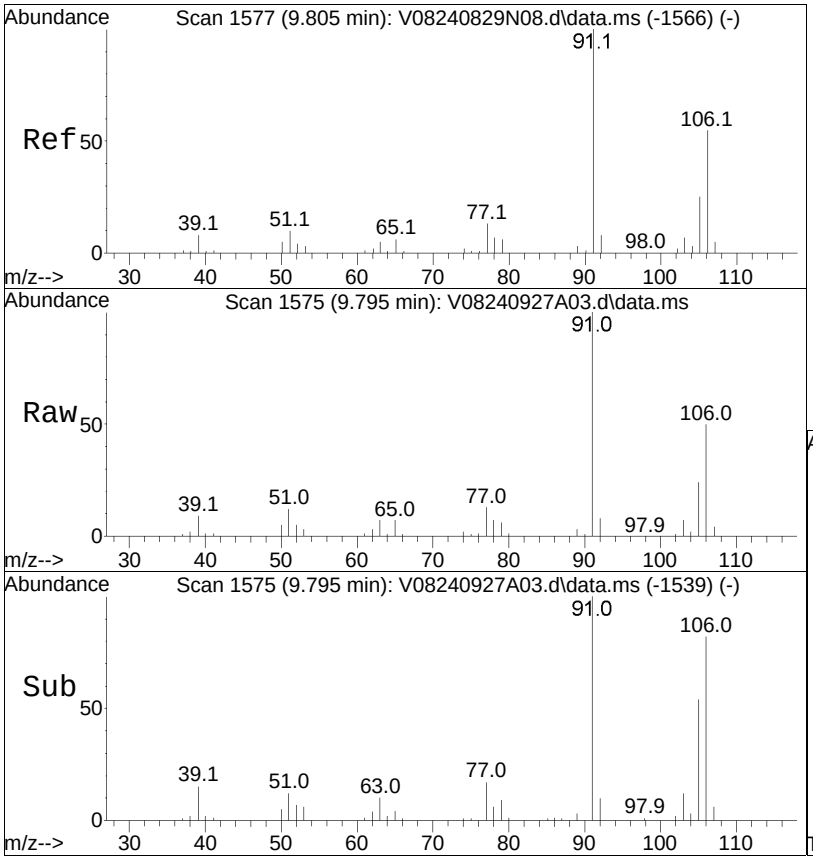


#74
Ethylbenzene
Concen: 11.00 ug/L
RT: 9.606 min Scan# 1539
Delta R.T. -0.010 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 91 Resp: 163384

Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.3	36.5

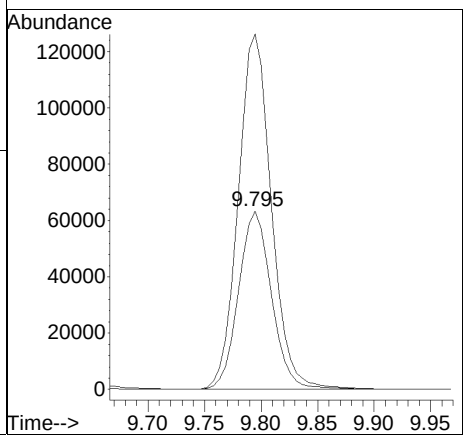


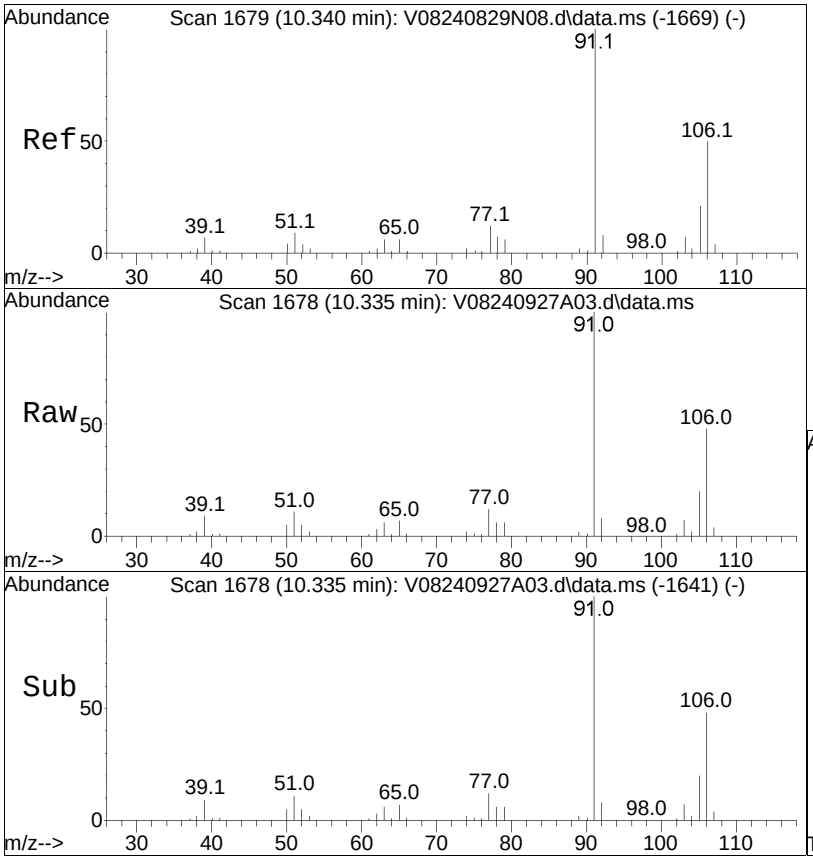


#76
p/m Xylene
Concen: 20.61 ug/L
RT: 9.795 min Scan# 1575
Delta R.T. -0.010 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion:106 Resp: 128669

Ion	Ratio	Lower	Upper
106	100		
91	200.4	166.4	249.6

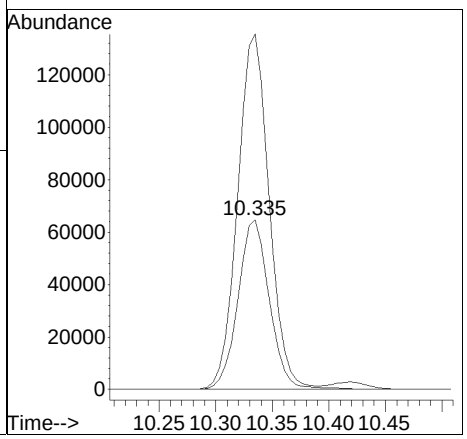


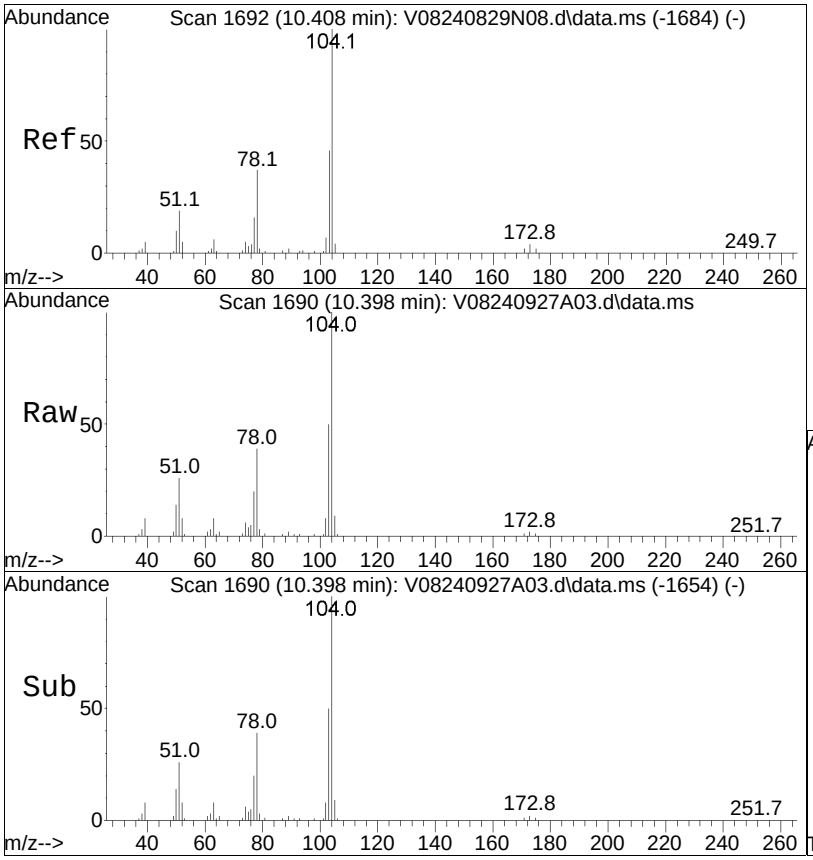


#77
o Xylene
Concen: 20.19 ug/L
RT: 10.335 min Scan# 1678
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion:106 Resp: 124864

Ion	Ratio	Lower	Upper
106	100		
91	210.0	182.6	273.8

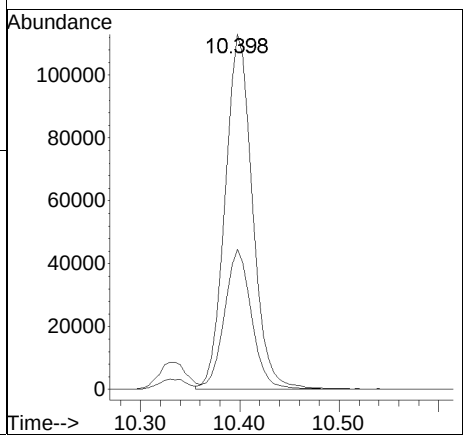


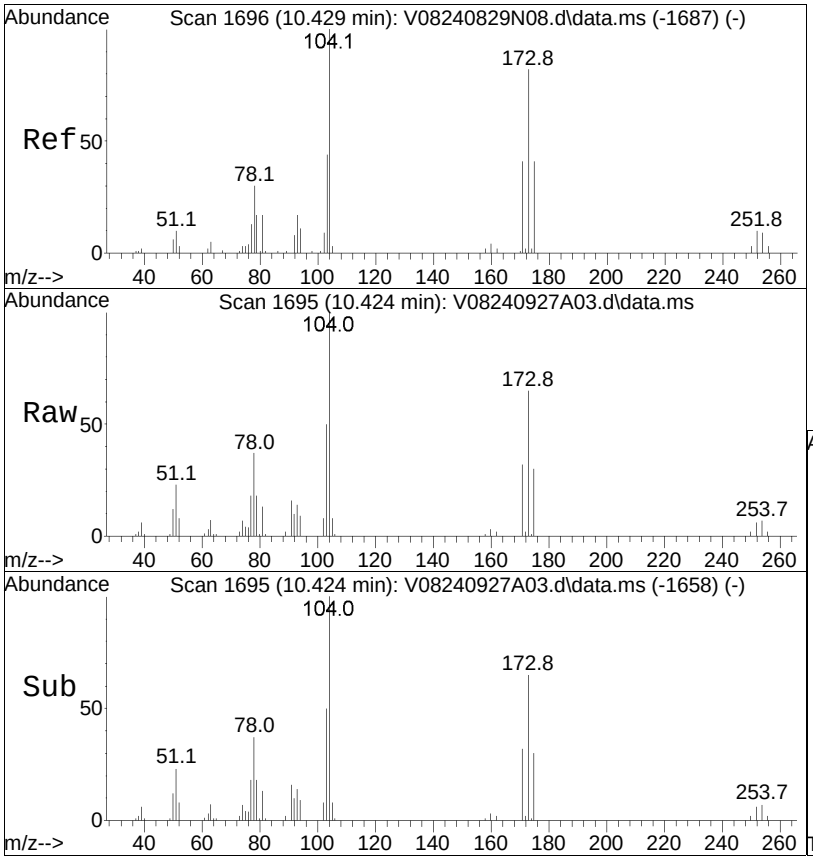


#78
Styrene
Concen: 19.42 ug/L
RT: 10.398 min Scan# 1690
Delta R.T. -0.010 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion:104 Resp: 217075

Ion	Ratio	Lower	Upper
104	100		
78	38.4	39.8	59.6#

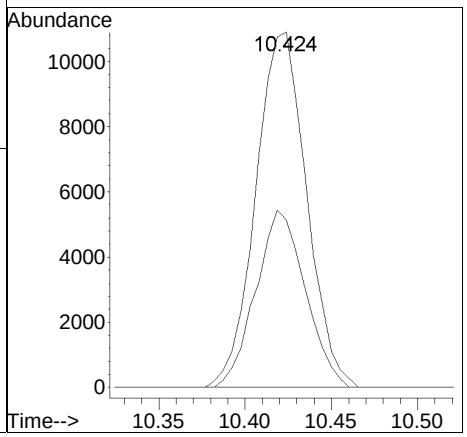


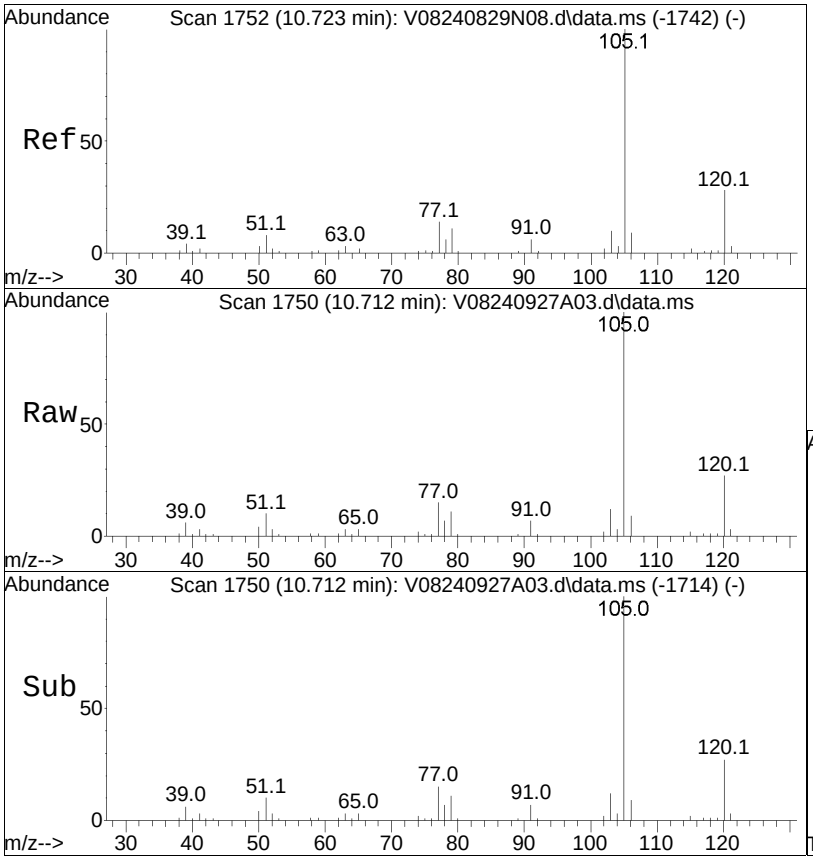


#80
Bromoform
Concen: 8.43 ug/L
RT: 10.424 min Scan# 1695
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion:173 Resp: 22295

Ion	Ratio	Lower	Upper
173	100		
175	48.7	31.5	71.5

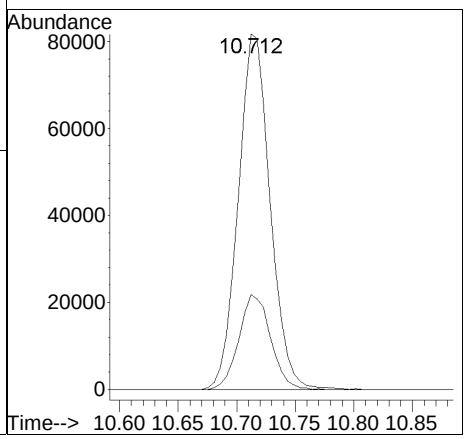


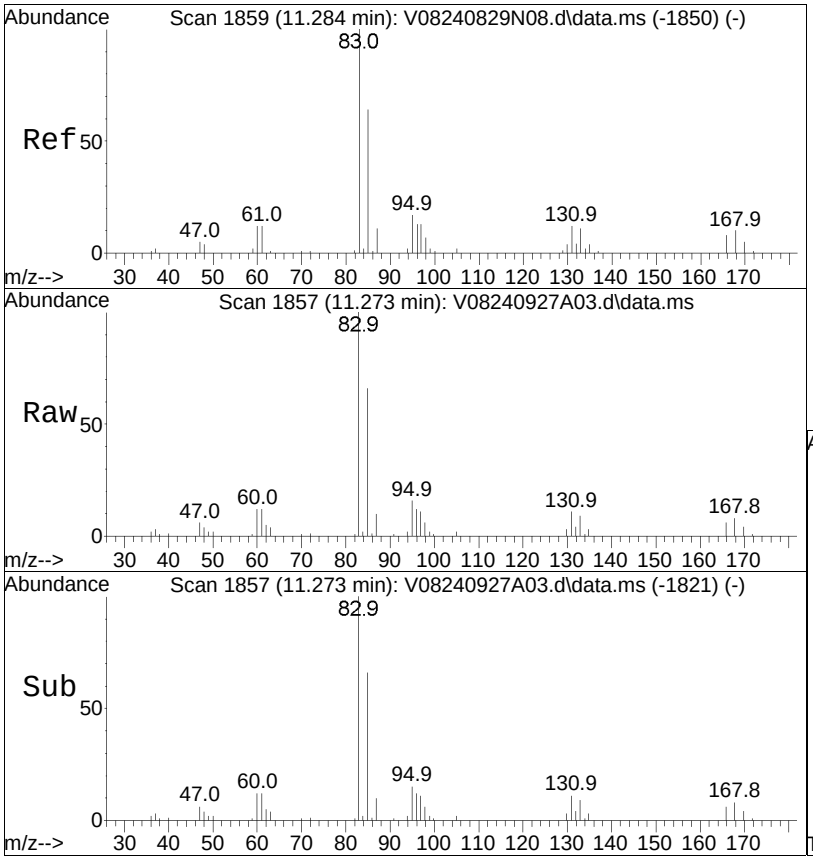


#82
Isopropylbenzene
Concen: 11.05 ug/L
RT: 10.712 min Scan# 1750
Delta R.T. -0.011 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion:105 Resp: 154719

Ion	Ratio	Lower	Upper
105	100		
120	26.5	4.8	44.8

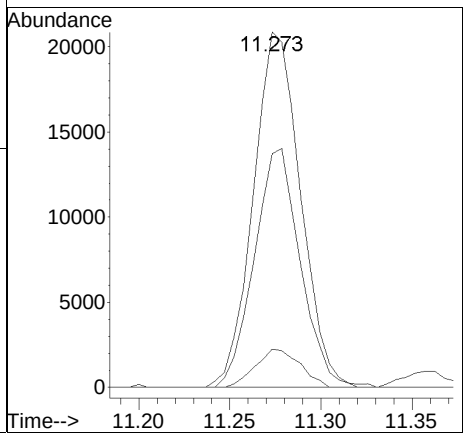


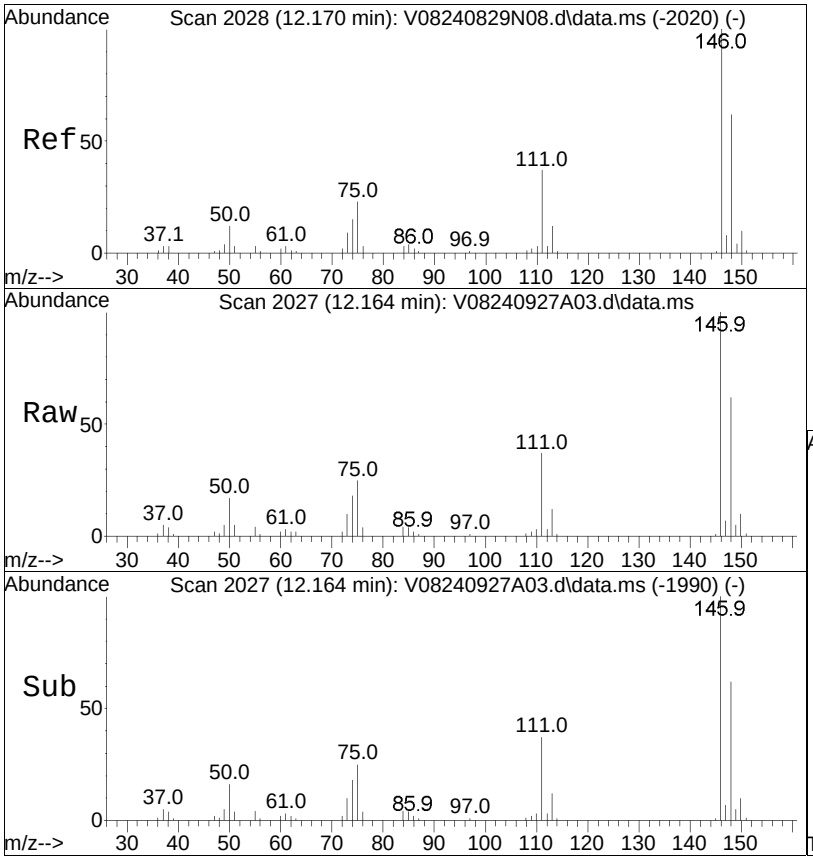


#87
1,1,2,2-Tetrachloroethane
Concen: 11.38 ug/L
RT: 11.273 min Scan# 1857
Delta R.T. -0.011 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion: 83 Resp: 37587

Ion	Ratio	Lower	Upper
83	100		
131	10.2	0.0	30.4
85	65.7	45.4	85.4

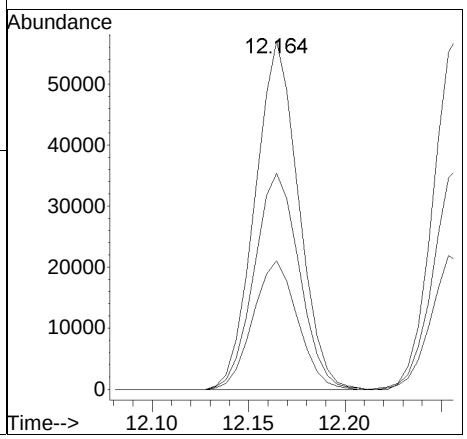


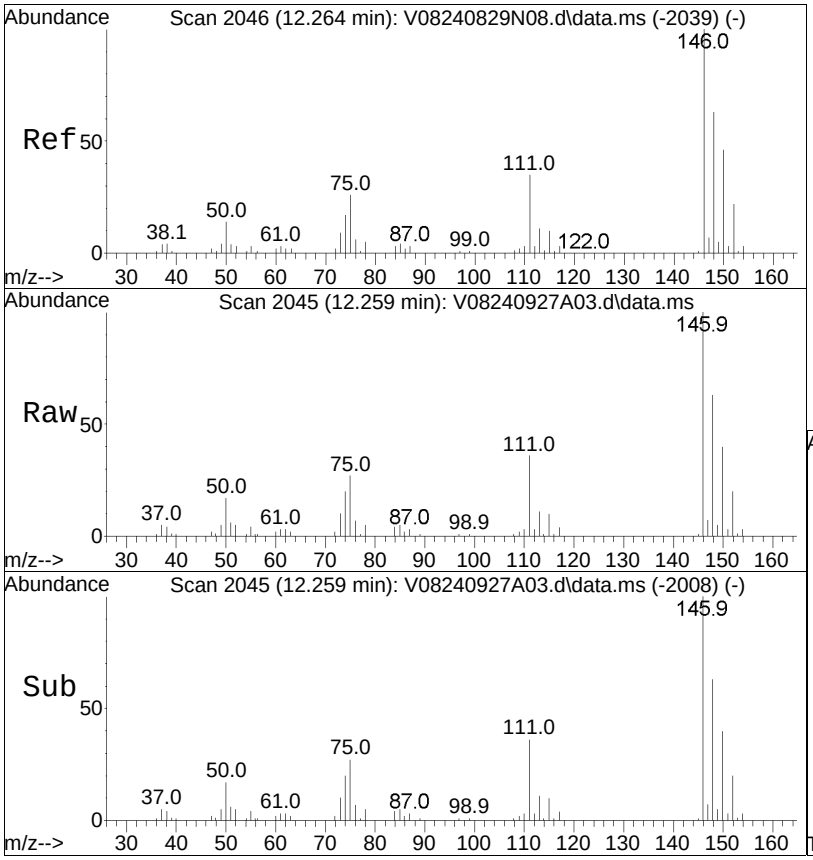


#100
1,3-Dichlorobenzene
Concen: 10.13 ug/L
RT: 12.164 min Scan# 2027
Delta R.T. -0.006 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion:146 Resp: 89518

Ion	Ratio	Lower	Upper
146	100		
111	37.8	27.5	57.1
148	64.4	41.9	86.9

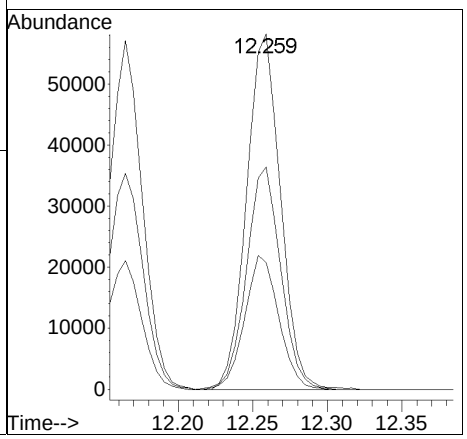


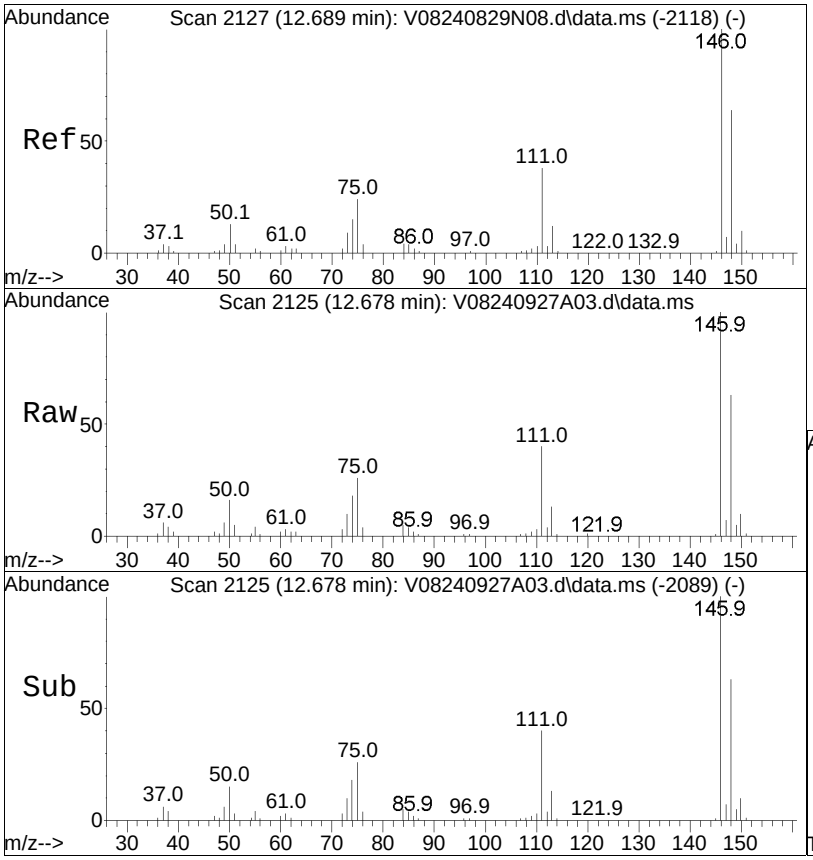


#101
1,4-Dichlorobenzene
Concen: 10.17 ug/L
RT: 12.259 min Scan# 2045
Delta R.T. -0.005 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion:146 Resp: 92341

Ion	Ratio	Lower	Upper
146	100		
111	37.7	32.3	48.5
148	62.7	49.9	74.9

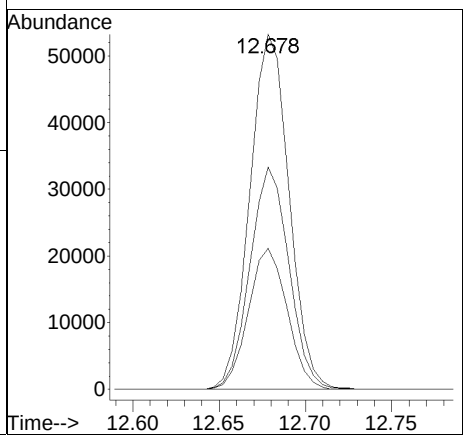


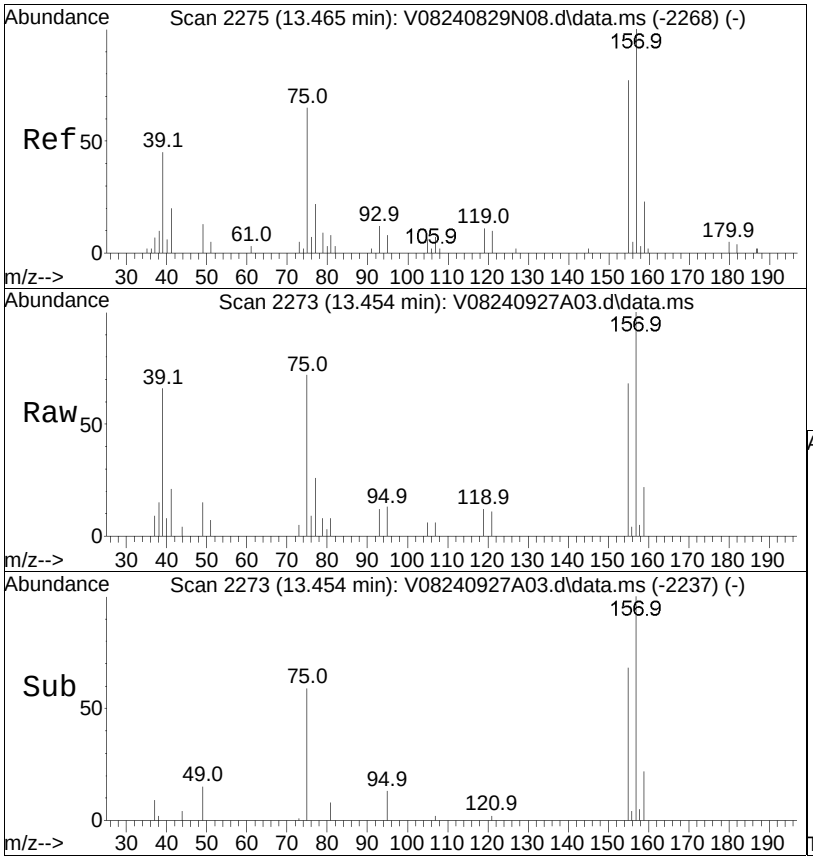


#104
1,2-Dichlorobenzene
Concen: 9.82 ug/L
RT: 12.678 min Scan# 2125
Delta R.T. -0.011 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion:146 Resp: 84312

Ion	Ratio	Lower	Upper
146	100		
111	39.3	28.3	58.7
148	62.3	42.3	87.8

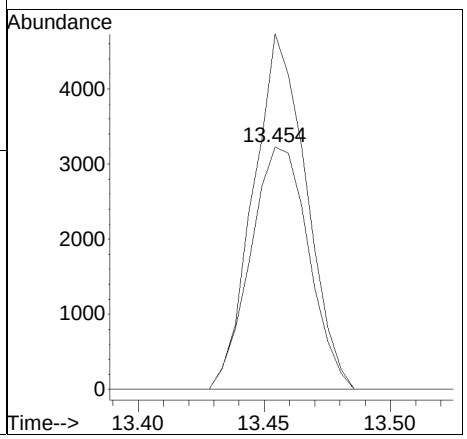


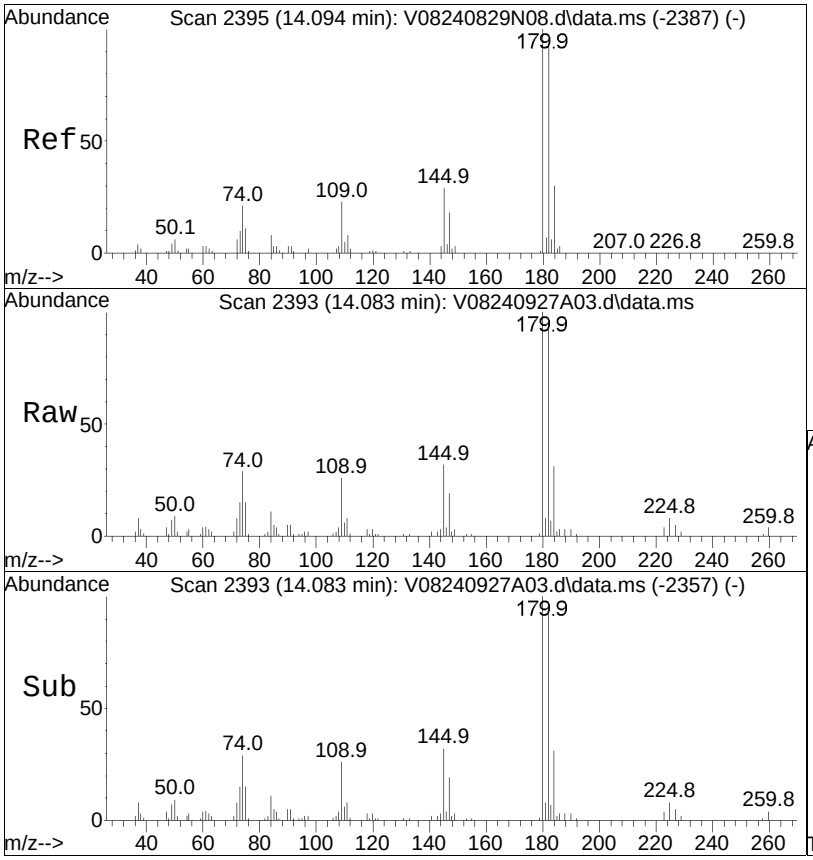


#106
1,2-Dibromo-3-chloropropane
Concen: 8.83 ug/L
RT: 13.454 min Scan# 2273
Delta R.T. -0.011 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion:155 Resp: 5183

Ion	Ratio	Lower	Upper
155	100		
157	133.0	94.8	142.2

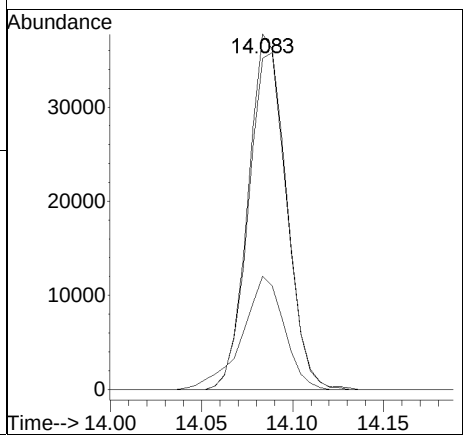


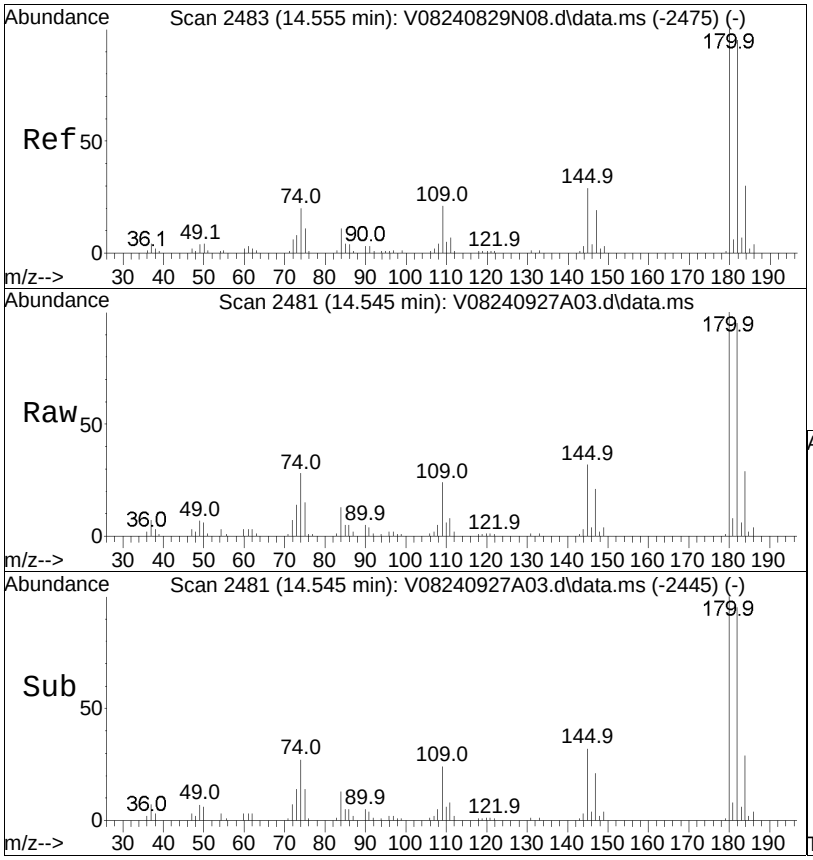


#109
1,2,4-Trichlorobenzene
Concen: 9.22 ug/L
RT: 14.083 min Scan# 2393
Delta R.T. -0.011 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion:180 Resp: 54984

Ion	Ratio	Lower	Upper
180	100		
182	95.4	77.3	115.9
145	35.1	28.1	42.1

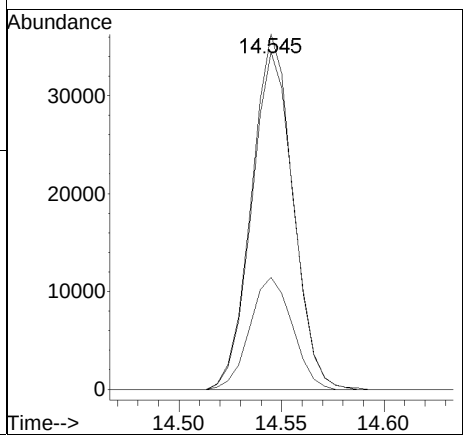




#111
1,2,3-Trichlorobenzene
Concen: 9.19 ug/L
RT: 14.545 min Scan# 2481
Delta R.T. -0.010 min
Lab File: V08240927A03.d
Acq: 27 Sep 2024 7:40 am

Tgt Ion:180 Resp: 50932

Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.4	114.6
145	32.3	26.4	39.6



Calculation of Volatile Organic Compounds

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

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

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

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

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 27 2024, 01:07 pm

Work Group: WG1977231 for Department: 31 GC/MS - Volatiles

Created: 27-SEP-24 Due: Operator: mjv

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2454178-08	SBMW-2019-01-09192024	S	NYTCL-8260-R2	WATER	SEC	U	1003	0927	S0	Vial-B
L2454259-03	MW-5	S	NYTCL-8260	WATER	SEC	U	1003	0927	S0	Vial-B
L2454352-01	SCDOH-DR	S	NYTCL-8260	WATER	DONE	U	1004	0927	S0	Vial-B
L2454352-02	TRIP BLANK	S	NYTCL-8260	WATER	DONE	U	1004	0927	S0	Vial-B
WG1977231-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG1977231-1	MS BFB Tune Standard	S	NYTCL-8260-R2	WATER	DONE	U				
WG1977231-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG1977231-2	Continuing Calibrati	S	NYTCL-8260-R2	WATER	DONE	U				
WG1977231-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG1977231-3	Laboratory Control S	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1977231-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG1977231-4	LCS Duplicate	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1977231-5	Laboratory Method Bl	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1977231-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				

Comments:

WG1977231-4 WG1977231-3

Method
Inst: VOA108 BFB: V10618 GC: 8260-ATOMX
Initials: MAG IS/SS: V10619 Autosampler: 8260
Date **08/29/24** ICAL: V10594C,V10643 Concentrator: 8260
Run **N** ICV: V10602, V10620, V10621, V10638, V10596, V10597 QC: Seq:

Vial	DATA FILE	SAMPLE	pH<2
1	V08240829NBF3	BFB TUNE	
1	V08240829N01	BLK	
2	V08240829N02	BLK	
3	V08240829N03	I8260STD0.19PPB	
4	V08240829N04	I8260STD0.19PPB	
5	V08240829N05	I8260STD0.5PPB	
6	V08240829N06	I8260STD0.5PPB	
7	V08240829N07	I8260STD2PPB	
8	V08240829N08	I8260STD10PPB	
9	V08240829N09	I8260STD30PPB	
10	V08240829N10	I8260STD80PPB	
11	V08240829N11	I8260STD120PPB	
12	V08240829N12	I8260STD200PPB	
13	V08240829N13	BLK	
14	V08240829N14	BLK	
15	V08240829N15	BLK	
16	V08240829N16	BLK	
17	V08240829N17	C8260STD10PPB	
18	V08240829N18	C8260STD10PPB	
19	V08240829N19	BLK	
20	V08240829N20	BLK	

Inst: VOA108 BFB: V10678
Initials: PID IS/SS: V10670
Date **09/27/24** ICAL: V10683A,V10692
Run **A**

Method
GC: 8260-ATOMX
Autosampler: 8260
Concentrator: 8260

QC: Seq:

Vial	DATA FILE	SAMPLE			pH<2
					pH<2
1	V08240927ABF1	BFB TUNE 06:40			
1	V08240927A01	8260 CCAL SUBLIST FAILS			
2	V08240927A02	8260 CCAL LCS			
3	V08240927A03	8260 CCAL LCSD			
4	V08240927A04	BLK			
5	V08240927A05	METHOD BLK			
6	V08240927A06	L2454352-01,31,10,10,,A	NYCURVE		pH<2
7	V08240927A07	L2454352-02,31,10,10,,A	NYCURVE	TB	pH<2
8	V08240927A08	I2454259-03D,31,1.0,10,,c	NYSTARS+OXYS		pH<2
9	V08240927A09	I2454178-08D,31,2.0,10,,c	NY/CIS12DCE		pH<2
10	V08240927A10	L2454324-01,31,10,10,,A	8260		pH<2
11	V08240927A11	L2454324-02,31,10,10,,A	8260		pH<2
12	V08240927A12	L2454324-03,31,10,10,,A	8260		pH<2
13	V08240927A13	L2454324-04,31,10,10,,A	8260		pH<2
14	V08240927A14	L2454324-05,31,10,10,,A	8260		pH<2
15	V08240927A15	DSTD			
16	V08240927A16	I2454597-01D,31,1.0,10,,a	8260NH		pH<2
17	V08240927A17	I2454597-03D,31,2.5,10,,a	8260NH		pH<2
18	V08240927A18	L2454597-06,31,10,10,,A	8260NH		
19	V08240927A19	L2454597-02,31,10,10,,A	8260NH		
20	V08240927A20	L2454597-04,31,10,10,,A	8260NH		
21	V08240927A21	L2454597-05,31,10,10,,A	8260NH		
22	V08240927A22	L2454597-07,31,10,10,,A	8260NH		
23	V08240927A23	L2454678-01,31,10,10,,A	8260NH		
24	V08240927A24	L2454678-02,31,10,10,,A	8260NH		
25	V08240927A25	L2454732-01,31,10,10,,A	NY/BTEX		
26	V08240927A26	L2454740-01,31,10,10,,A	NY/BTEX		
27	V08240927A27	HSTD			
28	V08240927A28	BLK			
29	V08240927A29	BLK			

Semivolatiles Data- Method 8270

Semivolatiles QC Summary

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1977115-2 Analysis Date : 09/28/24 01:10	**File ID**	: 977115-2
LCSD Sample ID	: WG1977115-3 Analysis Date : 09/28/24 01:36	**File ID**	: 977115-3

	Laboratory Control Sample				Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R		True (ug/l)	Found (ug/l)	%R		RPD	Recovery Limits	RPD Limit
3,3'-Dichlorobenzidine	20	11.	57		20	11.	53		7	40-140	30
2,4-Dinitrotoluene	20	12.	62		20	12.	60		3	48-143	30
2,6-Dinitrotoluene	20	12.	62		20	12.	63		2	40-140	30
4-Chlorophenyl phenyl ether	20	11.	56		20	11.	54		4	40-140	30
4-Bromophenyl phenyl ether	20	11.	57		20	12.	58		2	40-140	30
Bis(2-chloroisopropyl)ether	20	16.	78		20	15.	73		7	40-140	30
Bis(2-chloroethoxy)methane	20	13.	64		20	12.	61		5	40-140	30
Hexachlorocyclopentadiene	20	4.6	23	Q	20	4.9	25	Q	8	40-140	30
Isophorone	20	13.	65		20	12.	61		6	40-140	30
Nitrobenzene	20	12.	63		20	12.	60		5	40-140	30
NDPA/DPA	20	13.	64		20	12.	61		5	40-140	30
n-Nitrosodi-n-propylamine	20	13.	64		20	12.	62		3	29-132	30
Bis(2-ethylhexyl)phthalate	20	19.	97		20	19.	95		2	40-140	30
Butyl benzyl phthalate	20	18.	91		20	16.	81		12	40-140	30
Di-n-butylphthalate	20	16.	83		20	15.	76		9	40-140	30
Di-n-octylphthalate	20	20.	101		20	18.	90		12	40-140	30
Diethyl phthalate	20	15.	75		20	14.	72		4	40-140	30
Dimethyl phthalate	20	13.	65		20	13.	64		2	40-140	30
Biphenyl	20	9.0	45		20	9.0	45		0	40-140	30
4-Chloroaniline	20	11.	55		20	9.6	48		14	40-140	30
2-Nitroaniline	20	13.	63		20	13.	63		0	52-143	30
3-Nitroaniline	20	12.	63		20	13.	63		0	25-145	30
4-Nitroaniline	20	13.	63		20	12.	62		2	51-143	30
Dibenzofuran	20	11.	56		20	11.	54		4	40-140	30
1,2,4,5-Tetrachlorobenzene	20	7.2	36		20	7.3	37		3	2-134	30
Acetophenone	20	12.	61		20	12.	59		3	39-129	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1977115-2 **Analysis Date** : 09/28/24 01:10	**File ID**	: 977115-2
LCSD Sample ID	: WG1977115-3 **Analysis Date** : 09/28/24 01:36	**File ID**	: 977115-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
2,4,6-Trichlorophenol	20	12.	62	20	12.	61	2	30-130	30
p-Chloro-m-cresol	20	14.	70	20	14.	68	3	23-97	30
2-Chlorophenol	20	12.	59	20	11.	56	5	27-123	30
2,4-Dichlorophenol	20	12.	62	20	12.	60	3	30-130	30
2,4-Dimethylphenol	20	10.	50	20	10.	52	4	30-130	30
2-Nitrophenol	20	12.	58	20	12.	58	0	30-130	30
4-Nitrophenol	20	10.	52	20	9.4	47	10	10-80	30
2,4-Dinitrophenol	20	18.	91	20	18.	90	1	20-130	30
4,6-Dinitro-o-cresol	20	16.	78	20	15.	74	5	20-164	30
Phenol	20	7.8	39	20	7.3	36	8	12-110	30
2-Methylphenol	20	12.	58	20	11.	55	5	30-130	30
3-Methylphenol/4-Methylphenol	20	11.	57	20	11.	55	4	30-130	30
2,4,5-Trichlorophenol	20	13.	64	20	13.	67	5	30-130	30
Carbazole	20	14.	68	20	12.	61	11	55-144	30
Atrazine	20	18.	88	20	17.	85	3	40-140	30
Benzaldehyde	20	10.	51	20	9.7	49	4	40-140	30
Caprolactam	20	11.	53	20	11.	53	0	10-130	30

Surrogate Recovery Summary
Form 2
Semivolatiles

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

Lab Number: L2454352
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
SCDOH-DR (L2454352-01)	25	25	47	40	21	52	0
WG1977115-1BLANK	25	26	60	57	20	72	0
WG1977115-2LCS	49	38	56	48	42	60	0
WG1977115-3LCSD	48	35	52	47	44	52	0

QC LIMITS

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

*** Values outside of QC limits**

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1977115-1	**Lab File ID**	: 977115-1
Instrument ID	: SV107	**Extraction Date**	: 09/27/24
Matrix	: WATER	**Analysis Date**	: 09/28/24 00:45
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1977115-2LCS	WG1977115-2	09/28/24 01:10
WG1977115-3LCSD	WG1977115-3	09/28/24 01:36
SCDOH-DR	L2454352-01	09/28/24 03:18

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/02/24 19:09
Tune Standard	: R1836615-1	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	35.9
68	Less than 2.0% of mass 69	0.6 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	44
197	Less than 2.0% of mass 198	0.8
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	21.3
365	Greater than 1.0% of mass 198	2.3
441	Present, but less than 24% of mass 442	16.8
442	Base Peak, or >50% of mass 198	82
443	15.0 - 24.0% of mass 442	16.6 (20.2)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL9	R1836615-11	ABNL9	06/02/24 19:34
ABNL8	R1836615-10	ABNL8	06/02/24 19:59
ABNL7	R1836615-9	ABNL7	06/02/24 20:24
ABNL6	R1836615-8	ABNL6	06/02/24 20:50
ABNL5	R1836615-7	ABNL5	06/02/24 21:15
ABNL4	R1836615-6	ABNL4	06/02/24 21:40
ABNL3	R1836615-5	ABNL3	06/02/24 22:05
ABNL2	R1836615-4	ABNL2	06/02/24 22:30
ABNL1	R1836615-3	ABNL1	06/02/24 22:56
AP9L9	R1836615-29	AP9L9	06/02/24 23:21
AP9L8	R1836615-28	AP9L8	06/02/24 23:47
AP9L7	R1836615-27	AP9L7	06/03/24 00:12
AP9L6	R1836615-25	AP9L6	06/03/24 00:37
AP9L5	R1836615-26	AP9L5	06/03/24 01:08
AP9L4	R1836615-24	AP9L4	06/03/24 01:33
AP9L3	R1836615-23	AP9L3	06/03/24 01:58
AP9L2	R1836615-22	AP9L2	06/03/24 02:23
AP9L1	R1836615-21	AP9L1	06/03/24 02:49
ABN ICV Quant Report	R1836615-30	ABNICV	06/03/24 03:14
AP9 ICV Quant Report	R1836615-32	AP9ICV	06/03/24 03:39

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/03/24 04:04
Tune Standard	: R1836615-2	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	34.1
68	Less than 2.0% of mass 69	0.5 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	43.3
197	Less than 2.0% of mass 198	0.7
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	21.9
365	Greater than 1.0% of mass 198	2.5
441	Present, but less than 24% of mass 442	17.1
442	Base Peak, or >50% of mass 198	89.8
443	15.0 - 24.0% of mass 442	17.6 (19.6)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL9	R1836615-20	ADPL9	06/03/24 04:29
ADPL8	R1836615-19	ADPL8	06/03/24 04:54
ADPL7	R1836615-18	ADPL7	06/03/24 05:19
ADPL6	R1836615-17	ADPL6	06/03/24 05:45
ADPL5	R1836615-16	ADPL5	06/03/24 06:10
ADPL4	R1836615-15	ADPL4	06/03/24 06:35
ADPL3	R1836615-14	ADPL3	06/03/24 07:00
ADPL2	R1836615-13	ADPL2	06/03/24 07:25
ADPL1	R1836615-12	ADPL1	06/03/24 07:50
ADP ICV Quant Report	R1836615-31	ADPICV	06/03/24 08:15

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 09/27/24 23:03
Tune Standard	: WG1977425-1	**Tune File ID**	: DEG0927n_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	36.9
68	Less than 2.0% of mass 69	0.6 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	47.7
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	21
365	Greater than 1.0% of mass 198	2.4
441	Present, but less than 24% of mass 442	16.8
442	Base Peak, or >50% of mass 198	58.6
443	15.0 - 24.0% of mass 442	11.2 (19.1)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1977425-6TFACTOR-P	WG1977425-6	DEG0927N	09/27/24 23:03
WG1977425-7TFACTOR-B	WG1977425-7	DEG0927N	09/27/24 23:03
WG1977425-3CCAL	WG1977425-3	ABN0927N	09/27/24 23:28
WG1977425-4CCAL	WG1977425-4	AP90927N	09/27/24 23:54
WG1977425-5CCAL	WG1977425-5	ADP0927N	09/28/24 00:19
WG1977115-1BLANK	WG1977115-1	977115-1	09/28/24 00:45
WG1977115-2LCS	WG1977115-2	977115-2	09/28/24 01:10
WG1977115-3LCSD	WG1977115-3	977115-3	09/28/24 01:36
SCDOH-DR	L2454352-01	54352-01	09/28/24 03:18

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 09/27/24 23:28:00
Sample No	: WG1977425-3	**Lab File ID**	: ABN0927N

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1977425-3	14778	6.48	54938	7.89	33659	9.65
Upper Limit	29556	6.98	109876	8.39	67318	10.15
Lower Limit	7389	5.98	27469	7.39	16830	9.15
Sample ID						
WG1977425-4 CCAL	12952	6.48	49162	7.89	29254	9.65
WG1977425-5 CCAL	12831	6.47	-	-	29357	9.65
WG1977115-1 BLANK	12431	6.48	45027	7.89	27644	9.65
WG1977115-2 LCS	12577	6.48	47960	7.89	28680	9.65
WG1977115-3 LCSD	13015	6.47	49479	7.89	30000	9.65
SCDOH-DR	13853	6.48	49908	7.89	29823	9.65

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 09/27/24 23:28:00
Sample No	: WG1977425-3	**Lab File ID**	: ABN0927N

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1977425-3	70037	11.09	61504	13.73	65134	15.20
Upper Limit	140074	11.59	123008	14.23	130268	15.70
Lower Limit	35019	10.59	30752	13.23	32567	14.70
Sample ID						
WG1977425-4 CCAL	61619	11.09	-	-	-	-
WG1977425-5 CCAL	61933	11.09	-	-	-	-
WG1977115-1 BLANK	56938	11.09	57262	13.73	59254	15.20
WG1977115-2 LCS	57421	11.09	56450	13.73	55718	15.20
WG1977115-3 LCSD	62037	11.09	53624	13.73	48786	15.20
SCDOH-DR	60340	11.09	62770	13.73	61897	15.20

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

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

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
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ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	2	1.06	ug/l	37-111	30	37-111	30	30			
Benzidine	92-87-5	20	8.14	ug/l	10-75	30	10-75	30	30			
1,2,4-Trichlorobenzene	120-82-1	5	0.581	ug/l	39-98	30	39-98	30	30			
Hexachlorobenzene	118-74-1	2	0.69	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethyl)ether	111-44-4	2	0.884	ug/l	40-140	30	40-140	30	30			
2-Chloronaphthalene	91-58-7	2	0.538	ug/l	40-140	30	40-140	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.636	ug/l	40-140	30	40-140	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.642	ug/l	40-140	30	40-140	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.463	ug/l	36-97	30	36-97	30	30			
3,3'-Dichlorobenzidine	91-94-1	5	0.854	ug/l	40-140	30	40-140	30	30			
2,4-Dinitrotoluene	121-14-2	5	0.382	ug/l	48-143	30	48-143	30	30			
2,6-Dinitrotoluene	606-20-2	5	0.368	ug/l	40-140	30	40-140	30	30			
Azobenzene	122-66-7	2	0.81	ug/l	40-140	30	40-140	30	30			
Fluoranthene	206-44-0	2	0.653	ug/l	40-140	30	40-140	30	30			
4-Chlorophenyl phenyl ether	7005-72-3	2	0.795	ug/l	40-140	30	40-140	30	30			
4-Bromophenyl phenyl ether	101-55-3	2	0.632	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroisopropyl)ether	108-60-1	2	1.75	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethoxy)methane	111-91-1	5	1.49	ug/l	40-140	30	40-140	30	30			
Hexachlorobutadiene	87-68-3	2	0.6	ug/l	40-140	30	40-140	30	30			
Hexachlorocyclopentadiene	77-47-4	20	0.606	ug/l	40-140	30	40-140	30	30			
Hexachloroethane	67-72-1	2	0.44	ug/l	40-140	30	40-140	30	30			
Isophorone	78-59-1	5	0.657	ug/l	40-140	30	40-140	30	30			
Naphthalene	91-20-3	2	0.669	ug/l	40-140	30	40-140	30	30			
Nitrobenzene	98-95-3	2	0.656	ug/l	40-140	30	40-140	30	30			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2	0.65	ug/l	40-140	30	40-140	30	30			
n-Nitrosodi-n-propylamine	621-64-7	5	0.771	ug/l	29-132	30	29-132	30	30			
Bis(2-Ethylhexyl)phthalate	117-81-7	3	1.51	ug/l	40-140	30	40-140	30	30			
Butyl benzyl phthalate	85-68-7	5	2.18	ug/l	40-140	30	40-140	30	30			
Di-n-butylphthalate	84-74-2	5	0.58	ug/l	40-140	30	40-140	30	30			
Di-n-octylphthalate	117-84-0	5	2.39	ug/l	40-140	30	40-140	30	30			
Diethyl phthalate	84-66-2	5	4.3	ug/l	40-140	30	40-140	30	30			
Dimethyl phthalate	131-11-3	5	4.44	ug/l	40-140	30	40-140	30	30			
Benzo(a)anthracene	56-55-3	2	0.767	ug/l	40-140	30	40-140	30	30			
Benzo(a)pyrene	50-32-8	2	0.447	ug/l	40-140	30	40-140	30	30			
Benzo(b)fluoranthene	205-99-2	2	0.814	ug/l	40-140	30	40-140	30	30			
Benzo(k)fluoranthene	207-08-9	2	0.816	ug/l	40-140	30	40-140	30	30			
Chrysene	218-01-9	2	0.828	ug/l	40-140	30	40-140	30	30			
Acenaphthylene	208-96-8	2	0.59	ug/l	45-123	30	45-123	30	30			
Anthracene	120-12-7	2	0.79	ug/l	40-140	30	40-140	30	30			
Benzo(ghi)perylene	191-24-2	2	0.77	ug/l	40-140	30	40-140	30	30			
Fluorene	86-73-7	2	1.05	ug/l	40-140	30	40-140	30	30			
Phenanthrene	85-01-8	2	0.992	ug/l	40-140	30	40-140	30	30			

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

Date Created: 03/07/23
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File: PM14021-1
Page: 2

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	2	0.452	ug/l	40-140	30	40-140	30	30			
Indeno(1,2,3-cd)Pyrene	193-39-5	2	0.943	ug/l	40-140	30	40-140	30	30			
Pyrene	129-00-0	2	0.704	ug/l	26-127	30	26-127	30	30			
Biphenyl	92-52-4	2	0.635	ug/l	40-140	30	40-140	30	30			
Aniline	62-53-3	2	0.482	ug/l	40-140	30	40-140	30	30			
4-Chloroaniline	106-47-8	5	0.647	ug/l	40-140	30	40-140	30	30			
1-Methylnaphthalene	90-12-0	2	0.595	ug/l	41-103	30	41-103	30	30			
2-Nitroaniline	88-74-4	5	0.519	ug/l	52-143	30	52-143	30	30			
3-Nitroaniline	99-09-2	5	0.574	ug/l	25-145	30	25-145	30	30			
4-Nitroaniline	100-01-6	5	0.581	ug/l	51-143	30	51-143	30	30			
Dibenzofuran	132-64-9	2	0.823	ug/l	40-140	30	40-140	30	30			
2-Methylnaphthalene	91-57-6	2	0.677	ug/l	40-140	30	40-140	30	30			
n-Nitrosodimethylamine	62-75-9	2	0.524	ug/l	22-74	30	22-74	30	30			
2,4,6-Trichlorophenol	88-06-2	5	0.494	ug/l	30-130	30	30-130	30	30			
P-Chloro-M-Cresol	59-50-7	2	0.406	ug/l	23-97	30	23-97	30	30			
2-Chlorophenol	95-57-8	2	0.405	ug/l	27-123	30	27-123	30	30			
2,4-Dichlorophenol	120-83-2	5	0.527	ug/l	30-130	30	30-130	30	30			
2,4-Dimethylphenol	105-67-9	5	1.1	ug/l	30-130	30	30-130	30	30			
2-Nitrophenol	88-75-5	10	0.463	ug/l	30-130	30	30-130	30	30			
4-Nitrophenol	100-02-7	10	1.14	ug/l	10-80	30	10-80	30	30			
2,4-Dinitrophenol	51-28-5	20	3.55	ug/l	20-130	30	20-130	30	30			
4,6-Dinitro-o-cresol	534-52-1	10	5.42	ug/l	20-164	30	20-164	30	30			
Pentachlorophenol	87-86-5	10	1.95	ug/l	9-103	30	9-103	30	30			
Phenol	108-95-2	5	1.3	ug/l	12-110	30	12-110	30	30			
2-Methylphenol	95-48-7	5	1.1	ug/l	30-130	30	30-130	30	30			
3-Methylphenol/4-Methylphenol	106-44-5	5	0.55	ug/l	30-130	30	30-130	30	30			
2,4,5-Trichlorophenol	95-95-4	5	0.381	ug/l	30-130	30	30-130	30	30			
Benzoic Acid	65-85-0	50	12.9	ug/l	10-164	30	10-164	30	30			
Benzyl Alcohol	100-51-6	2	0.698	ug/l	26-116	30	26-116	30	30			
Carbazole	86-74-8	2	0.759	ug/l	55-144	30	55-144	30	30			
Pyridine	110-86-1	3.5	0.905	ug/l	10-66	30	10-66	30	30			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

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

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	133.6	17.3012	ug/kg	31-137	50	31-137	50	50			
Benzidine	92-87-5	551.1	181.028	ug/kg	10-66	50	10-66	50	50			
1,2,4-Trichlorobenzene	120-82-1	167	19.1048	ug/kg	38-107	50	38-107	50	50			
Hexachlorobenzene	118-74-1	100.2	18.704	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethyl)ether	111-44-4	150.3	22.6452	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	167	16.5664	ug/kg	40-140	50	40-140	50	50			
1,2-Dichlorobenzene	95-50-1	167	29.9932	ug/kg	40-140	50	40-140	50	50			
1,3-Dichlorobenzene	541-73-1	167	28.724	ug/kg	40-140	50	40-140	50	50			
1,4-Dichlorobenzene	106-46-7	167	29.1582	ug/kg	28-104	50	28-104	50	50			
3,3'-Dichlorobenzidine	91-94-1	167	44.422	ug/kg	40-140	50	40-140	50	50			
2,4-Dinitrotoluene	121-14-2	167	33.4	ug/kg	40-132	50	40-132	50	50			
2,6-Dinitrotoluene	606-20-2	167	28.6572	ug/kg	40-140	50	40-140	50	50			
Azobenzene	122-66-7	167	16.032	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	100.2	19.1716	ug/kg	40-140	50	40-140	50	50			
4-Chlorophenyl phenyl ether	7005-72-3	167	17.869	ug/kg	40-140	50	40-140	50	50			
4-Bromophenyl phenyl ether	101-55-3	167	25.4842	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroisopropyl)ether	108-60-1	200.4	28.5236	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethoxy)methane	111-91-1	180.36	16.7334	ug/kg	40-117	50	40-117	50	50			
Hexachlorobutadiene	87-68-3	167	24.4488	ug/kg	40-140	50	40-140	50	50			
Hexachlorocyclopentadiene	77-47-4	477.62	151.302	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	133.6	27.0206	ug/kg	40-140	50	40-140	50	50			
Isophorone	78-59-1	150.3	21.6766	ug/kg	40-140	50	40-140	50	50			
Naphthalene	91-20-3	167	20.3406	ug/kg	40-140	50	40-140	50	50			
Nitrobenzene	98-95-3	150.3	24.716	ug/kg	40-140	50	40-140	50	50			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	133.6	19.0046	ug/kg	36-157	50	36-157	50	50			
n-Nitrosodi-n-propylamine	621-64-7	167	25.7848	ug/kg	32-121	50	32-121	50	50			
Bis(2-Ethylhexyl)phthalate	117-81-7	167	57.782	ug/kg	40-140	50	40-140	50	50			
Butyl benzyl phthalate	85-68-7	167	42.084	ug/kg	40-140	50	40-140	50	50			
Di-n-butylphthalate	84-74-2	167	31.6632	ug/kg	40-140	50	40-140	50	50			
Di-n-octylphthalate	117-84-0	167	56.78	ug/kg	40-140	50	40-140	50	50			
Diethyl phthalate	84-66-2	167	15.4642	ug/kg	40-140	50	40-140	50	50			
Dimethyl phthalate	131-11-3	167	35.07	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	100.2	18.8042	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	133.6	40.748	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	100.2	28.1228	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	100.2	26.72	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	100.2	17.368	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	133.6	25.7848	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	100.2	32.565	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	133.6	19.6392	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	167	16.2324	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	100.2	20.3072	ug/kg	40-140	50	40-140	50	50			

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

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	100.2	19.3052	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	133.6	23.2798	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	100.2	16.5998	ug/kg	35-142	50	35-142	50	50			
Biphenyl	92-52-4	380.76	21.71	ug/kg	37-127	50	37-127	50	50			
Aniline	62-53-3	200.4	78.824	ug/kg	40-140	50	40-140	50	50			
4-Chloroaniline	106-47-8	167	30.394	ug/kg	40-140	50	40-140	50	50			
1-Methylnaphthalene	90-12-0	167	19.372	ug/kg	26-130	50	26-130	50	50			
2-Nitroaniline	88-74-4	167	32.1976	ug/kg	47-134	50	47-134	50	50			
3-Nitroaniline	99-09-2	167	31.4962	ug/kg	26-129	50	26-129	50	50			
4-Nitroaniline	100-01-6	167	69.138	ug/kg	41-125	50	41-125	50	50			
Dibenzofuran	132-64-9	167	15.7982	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	200.4	20.1736	ug/kg	40-140	50	40-140	50	50			
n-Nitrosodimethylamine	62-75-9	334	32.064	ug/kg	22-100	50	22-100	50	50			
2,4,6-Trichlorophenol	88-06-2	100.2	31.6632	ug/kg	30-130	50	30-130	50	50			
P-Chloro-M-Cresol	59-50-7	167	24.883	ug/kg	26-103	50	26-103	50	50			
2-Chlorophenol	95-57-8	167	19.7394	ug/kg	25-102	50	25-102	50	50			
2,4-Dichlorophenol	120-83-2	150.3	26.8536	ug/kg	30-130	50	30-130	50	50			
2,4-Dimethylphenol	105-67-9	167	55.11	ug/kg	30-130	50	30-130	50	50			
2-Nitrophenol	88-75-5	360.72	62.792	ug/kg	30-130	50	30-130	50	50			
4-Nitrophenol	100-02-7	233.8	68.136	ug/kg	11-114	50	11-114	50	50			
2,4-Dinitrophenol	51-28-5	801.6	77.822	ug/kg	4-130	50	4-130	50	50			
4,6-Dinitro-o-cresol	534-52-1	434.2	80.16	ug/kg	10-130	50	10-130	50	50			
Pentachlorophenol	87-86-5	133.6	36.74	ug/kg	17-109	50	17-109	50	50			
Phenol	108-95-2	167	25.217	ug/kg	26-90	50	26-90	50	50			
2-Methylphenol	95-48-7	167	25.885	ug/kg	30-130.	50	30-130.	50	50			
3-Methylphenol/4-Methylphenol	106-44-5	240.48	26.1522	ug/kg	30-130	50	30-130	50	50			
2,4,5-Trichlorophenol	95-95-4	167	31.9972	ug/kg	30-130	50	30-130	50	50			
Benzoic Acid	65-85-0	541.08	169.004	ug/kg	10-110	50	10-110	50	50			
Benzyl Alcohol	100-51-6	167	51.102	ug/kg	40-140	50	40-140	50	50			
Carbazole	86-74-8	167	16.2324	ug/kg	54-128	50	54-128	50	50			
Pyridine	110-86-1	180.36	63.46	ug/kg	10-93	50	10-93	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

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

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/28/24 03:18
Sample Matrix	: WATER	**Date Extracted**	: 09/27/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 54352-01	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/28/24 03:18
Sample Matrix	: WATER	**Date Extracted**	: 09/27/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 54352-01	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1977115-1	**Date Collected**	: NA
Client ID	: WG1977115-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/28/24 00:45
Sample Matrix	: WATER	**Date Extracted**	: 09/27/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 977115-1	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1977115-1	**Date Collected**	: NA
Client ID	: WG1977115-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/28/24 00:45
Sample Matrix	: WATER	**Date Extracted**	: 09/27/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 977115-1	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : 54352-01.D
Acq On : 28 Sep 2024 3:18 am
Operator : SV107:jg
Sample : L2454352-01,32,,ASK
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 28 14:45:40 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240927NRVT\ABN0927n.D
: 2 - I:\8270\SV107\240927NRVT\ADP0927n.D
: 3 - I:\8270\SV107\240927NRVT\AP90927n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.475	152	13853	4.000	ug/ml	0.00
Standard Area 1 = 14778			Recovery = 93.74%			
27) IS2_1,4-Dichlorobenzen...	6.475	152	13853	4.000	ug/ml	0.00
Standard Area 3 = 12952			Recovery = 106.96%			
35) IS1_Naphthalene-d8	7.892	136	49908	4.000	ug/ml	0.00
Standard Area 1 = 54938			Recovery = 90.84%			
55) IS2_Naphthalene-d8	7.892	136	49908	4.000	ug/ml	0.00
Standard Area 3 = 49162			Recovery = 101.52%			
63) IS1_Acenaphthene-d10	9.651	164	29823	4.000	ug/ml	0.00
Standard Area 1 = 33659			Recovery = 88.60%			
83) IS2_Acenaphthene-d10	9.651	164	29823	4.000	ug/ml	0.00
Standard Area 3 = 29254			Recovery = 101.95%			
86) IS3_Acenaphthene-d10	9.651	164	29823	4.000	ug/ml	0.00
Standard Area 2 = 29357			Recovery = 101.59%			
88) IS1_Phenanthrene-d10	11.086	188	60340	4.000	ug/ml	0.00
Standard Area 1 = 70037			Recovery = 86.15%			
100) IS3_Phenanthrene-d10	11.086	188	60340	4.000	ug/ml	0.00
Standard Area 2 = 61933			Recovery = 97.43%			
104) IS1_Chrysene-d12	13.727	240	62770	4.000	ug/ml	0.00
Standard Area 1 = 61504			Recovery = 102.06%			
113) IS1_Perylene-d12	15.198	264	61897	4.000	ug/ml	0.00
Standard Area 1 = 65134			Recovery = 95.03%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.616	112	1880	0.503	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 25.15%			
7) Phenol-d6	6.098	99	2424	0.495	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.75%			
19) Nitrobenzene-d5	7.128	82	2202	0.465	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 46.50%			
46) 2-Fluorobiphenyl	9.010	172	4435	0.395	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 39.50%			
79) 2,4,6-Tribromophenol	10.422	330	580	0.415	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 20.75%			
96) 4-Terphenyl-d14	12.668	244	7464	0.523	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 52.30%			

Data Path : I:\8270\SV107\240927NRVT\
Data File : 54352-01.D
Acq On : 28 Sep 2024 3:18 am
Operator : SV107:jg
Sample : L2454352-01,32,,ASK
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 28 14:45:40 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240927NRVT\ABN0927n.D
: 2 - I:\8270\SV107\240927NRVT\ADP0927n.D
: 3 - I:\8270\SV107\240927NRVT\AP90927n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.		
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.		
69) 4-Nitrophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV107\240927NRVT\
Data File : 54352-01.D
Acq On : 28 Sep 2024 3:18 am
Operator : SV107:jg
Sample : L2454352-01,32,,ASK
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 28 14:45:40 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240927NRVT\ABN0927n.D
: 2 - I:\8270\SV107\240927NRVT\ADP0927n.D
: 3 - I:\8270\SV107\240927NRVT\AP90927n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	
92) Di-n-butylphthalate	0.000		0		N.D.	
97) Butyl benzyl phthalate	0.000		0		N.D.	
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
109) Di-n-octylphthalate	0.000		0		N.D.	d

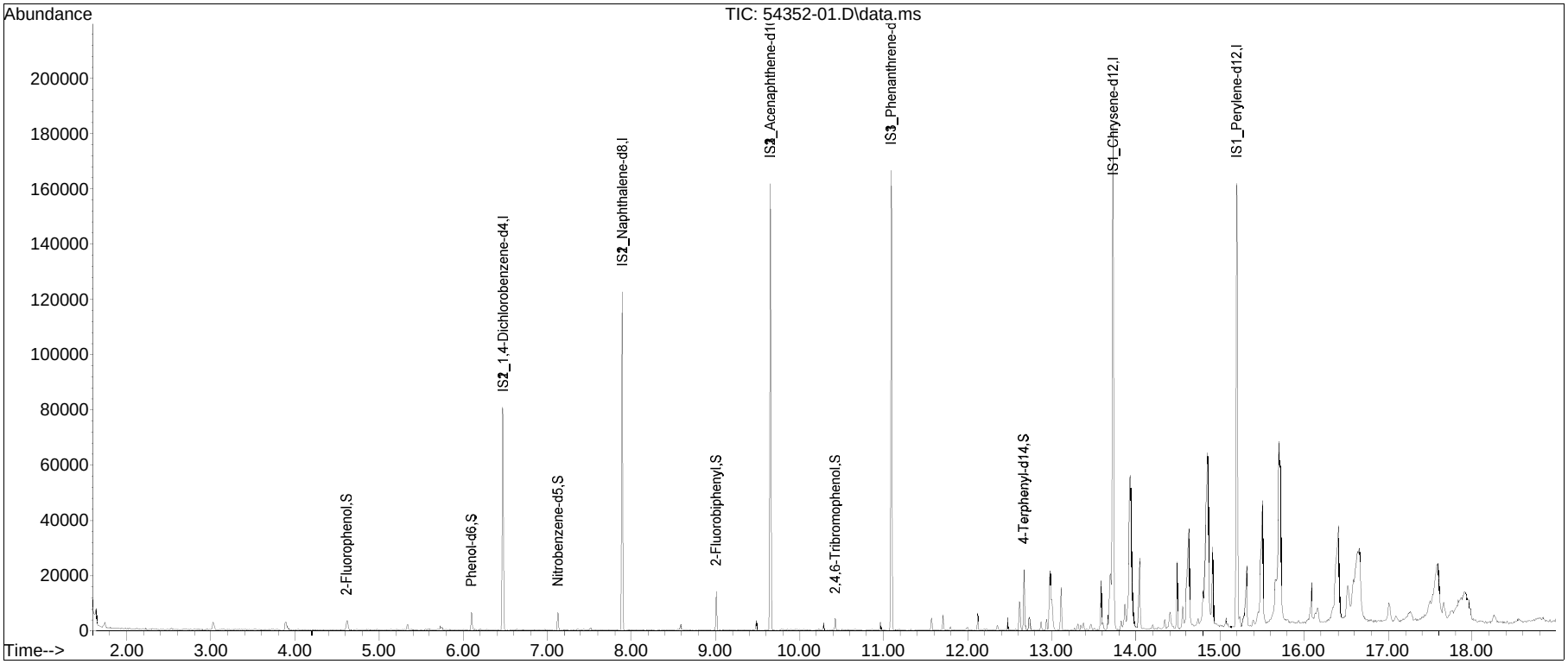
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : 54352-01.D
Acq On : 28 Sep 2024 3:18 am
Operator : SV107:jg
Sample : L2454352-01,32,,ASK
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 28 14:45:40 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90927n.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240927NRVT\	QMethod	: FS240730SV107RVT.m
Data File	: 54352-01.D	Operator	: SV107:jg
Date Inj'd	: 9/28/2024 3:18 am	Instrument	: SV107
Sample	: L2454352-01,32,,ASK	Quant Date	: 9/28/2024 3:37 am

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

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine	0.659	0.739	0.752	0.641	0.668	0.690	0.727	0.727	0.732	0.704	5.69
3)	t	Pyridine		1.316	1.325	1.070	1.126	1.152	1.185	1.208	1.213	1.199	7.32
4)	S	2-Fluorophenol	1.034	1.081	1.155	0.964	1.016	1.037	1.109	1.105	1.120	1.069	5.64
5)	T	Aniline	1.687	1.734	1.822	1.574	1.612	1.631	1.778	1.767	1.812	1.713	5.30
6)	t	2-Chlorophenol	1.179	1.224	1.263	1.020	1.098	1.126	1.218	1.225	1.253	1.178	6.89
7)	S	Phenol-d6	1.278	1.335	1.459	1.201	1.240	1.264	1.354	1.363	1.402	1.322	6.26
8)	T	Phenol	1.406	1.526	1.559	1.291	1.349	1.358	1.464	1.467	1.523	1.438	6.41
9)	T	bis(2-Chloroethyl)ether	1.250	1.343	1.302	1.036	1.078	1.092	1.189	1.171	1.206	1.185	8.74
10)	T	1,3-Dichlorobenzene	1.520	1.599	1.506	1.281	1.350	1.362	1.480	1.467	1.500	1.452	6.91
11)	T	1,4-Dichlorobenzene	1.519	1.712	1.553	1.305	1.361	1.387	1.479	1.469	1.515	1.478	8.11
12)	T	1,2-Dichlorobenzene	1.523	1.524	1.499	1.271	1.316	1.337	1.438	1.446	1.477	1.426	6.64
13)	t	Benzyl alcohol	0.983	1.013	1.035	0.892	0.918	0.948	1.041	1.068	1.105	1.000	7.08
14)	T	bis(2-chloroisopropyl)ether	1.700	1.723	1.762	1.433	1.473	1.502	1.662	1.658	1.695	1.623	7.43
15)	T	2-Methylphenol	1.015	1.022	1.072	0.906	0.949	0.992	1.080	1.097	1.145	1.031	7.32
16)	T	Hexachloroethane	0.564	0.574	0.599	0.476	0.490	0.517	0.560	0.554	0.571	0.545	7.60
17)	T	n-Nitrosodi-n-propylamine	0.915	0.891	0.880	0.787	0.817	0.835	0.919	0.922	0.948	0.879	6.20
18)	T	3-Methylphenol/4-Methylphenol	0.950	1.121	1.084	0.986	1.020	1.081	1.148	1.161	1.207	1.084	7.87
19)	S	Nitrobenzene-d5	1.086	1.168	1.154	1.010	1.068	1.154	1.252	1.286	1.303	1.165	8.65
20)	T	Nitrobenzene	1.134	1.157	1.216	1.047	1.112	1.187	1.290	1.296	1.332	1.197	7.95
21)	T	Isophorone	2.159	2.232	2.371	2.159	2.198	2.247	2.470	2.450	2.506	2.310	6.04
22)	T	2-Nitrophenol				0.395	0.468	0.498	0.584	0.619	0.635	0.533	17.81
23)	T	2,4-Dimethylphenol	1.049	1.057	1.116	1.007	1.025	1.054	1.126	1.146	1.208	1.088	6.01
24)	T	bis(2-Chloroethoxy)methane	1.538	1.541	1.569	1.414	1.406	1.410	1.558	1.547	1.585	1.508	4.95
25)	T	2,4-Dichlorophenol	0.960	1.048	1.114	0.980	1.043	1.092	1.181	1.191	1.236	1.094	8.75
26)	T	1,2,4-Trichlorobenzene	1.385	1.429	1.413	1.145	1.228	1.221	1.336	1.343	1.367	1.318	7.42
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	1.042	1.090	1.002	1.018	0.972	0.961	1.028	1.023	1.078	1.024	4.21
29)	T	Acetophenone	1.757	1.693	1.775	1.718	1.676	1.701	1.823	1.839	1.949	1.770	4.98
30)	T	m-Toluidine	1.089	1.425	1.582	1.564	1.596	1.637	1.765	1.831	1.903	1.599	15.11
31)	T	2-Chloroaniline	1.488	1.575	1.472	1.473	1.477	1.505	1.601	1.616	1.711	1.546	5.45
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	T	n-Decane	1.520	1.486	1.462	1.525	1.368	1.337	1.406	1.417	1.504	1.447	4.71
34)	I	IS1_Naphthalene-d8	----------ISTD----------										
35)	T	Naphthalene	1.083	1.118	1.062	0.891	0.943	0.924	0.975	0.964	1.002	0.996	7.74
36)	T	Benzoic Acid					0.124	0.165	0.205	0.229	0.243	*L	0.9992

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D

L8 =AP9L8.D L9 =AP9L9.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
37) T	4-Chloroaniline	0.129	0.121	0.129	0.115	0.123	0.120	0.130	0.129	0.135	0.126	4.95
38) T	Hexachlorobutadiene	0.214	0.247	0.227	0.181	0.194	0.196	0.215	0.207	0.214	0.211	9.32
39) T	p-Chloro-m-cresol	0.249	0.255	0.255	0.255	0.263	0.274	0.297	0.295	0.307	0.272	8.12
40) T	2-Methylnaphthalene	0.695	0.742	0.720	0.635	0.643	0.655	0.701	0.682	0.724	0.688	5.50
41) T	1-Methylnaphthalene	0.242	0.253	0.245	0.217	0.222	0.220	0.239	0.232	0.243	0.235	5.40
42) T	Hexachlorocyclopentadiene	0.181	0.215	0.200	0.169	0.191	0.196	0.225	0.231	0.239	0.205	11.50
43) T	2,4,6-Trichlorophenol	0.188	0.227	0.228	0.215	0.230	0.242	0.264	0.257	0.279	0.237	11.57
44) T	2,4,5-Trichlorophenol	0.220	0.240	0.243	0.225	0.245	0.256	0.273	0.278	0.279	0.251	8.74
45) S	2-Fluorobiphenyl	0.900	0.914	0.940	0.791	0.820	0.822	0.877	0.856	0.873	0.866	5.61
46) T	2-Chloronaphthalene	0.713	0.793	0.758	0.653	0.673	0.675	0.722	0.710	0.741	0.715	6.24
47) T	2-Nitroaniline			0.144	0.135	0.150	0.174	0.196	0.201	0.211	0.173	17.54
48) T	1,4-Dinitrobenzene					0.066	0.076	0.092	0.097	0.104	0.087	18.10
49) T	1,3-Dinitrobenzene					0.084	0.099	0.112	0.120	0.128	0.109	15.85
50) T	Dimethyl phthalate	0.827	0.896	0.845	0.791	0.805	0.809	0.851	0.848	0.877	0.839	4.10
51) T	Acenaphthylene	1.034	1.123	1.090	1.004	1.020	1.050	1.132	1.117	1.145	1.079	4.93
52) T	2,6-Dinitrotoluene			0.116	0.124	0.145	0.159	0.171	0.174	0.178	0.153	16.32
53) T	1,2-Dinitrobenzene			0.053	0.055	0.064	0.070	0.076	0.078	0.081	0.068	16.41
54) I	IS2_Naphthalene-d8	----------ISTD----------										
55) T	a-Terpineol	0.273	0.249	0.277	0.273	0.260	0.258	0.287	0.300	0.310	0.276	7.15
56) T	3-Chloroaniline	0.129	0.147	0.149	0.148	0.147	0.140	0.151	0.156	0.159	0.147	6.14
57) T	2,6-Dichlorophenol	0.238	0.256	0.283	0.276	0.285	0.281	0.317	0.331	0.343	0.290	11.85
58) T	1-chloro-2-nitrobenzene	0.102	0.121	0.114	0.108	0.113	0.111	0.133	0.142	0.147	0.121	13.04
59) T	Caprolactam				0.125	0.133	0.142	0.161	0.167	0.167	0.149	12.11
60) T	1,2,4,5-Tetrachlorobenzene	0.422	0.408	0.419	0.393	0.382	0.368	0.397	0.410	0.419	0.402	4.58
61) T	Biphenyl	0.924	0.964	0.962	0.896	0.893	0.854	0.918	0.969	0.982	0.929	4.65
62) I	IS1_Acenaphthene-d10	----------ISTD----------										
63) T	3-Nitroaniline			0.216	0.207	0.251	0.257	0.283	0.289	0.313	0.259	14.84
64) T	Acenaphthene	1.135	1.206	1.151	1.031	0.986	0.974	1.060	1.061	1.126	1.081	7.24
65) T	2,4-Dinitrophenol				0.061	0.096	0.113	0.138	0.155	0.179	*L	0.9922
66) T	Dibenzofuran	1.883	1.958	1.830	1.645	1.680	1.604	1.751	1.677	1.782	1.757	6.69
67) T	2,4-Dinitrotoluene			0.248	0.253	0.303	0.325	0.375	0.394	0.436	*L	0.9948
68) T	4-Nitrophenol				0.179	0.210	0.207	0.238	0.236	0.259	0.221	12.91
69) T	2,3,5,6-Tetrachlorophenol	0.221	0.289	0.313	0.285	0.326	0.322	0.366	0.353	0.384	0.318	15.48
70) T	2,3,4,6-Tetrachlorophenol	0.253	0.289	0.296	0.291	0.322	0.322	0.350	0.337	0.363	0.314	11.01
71) T	Diethyl phthalate	1.336	1.322	1.369	1.203	1.280	1.196	1.330	1.277	1.400	1.301	5.33
72) T	Fluorene	1.372	1.431	1.383	1.243	1.281	1.233	1.333	1.273	1.405	1.328	5.52

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
73)	T	4-Chlorophenyl-phenylether	0.725	0.721	0.710	0.627	0.647	0.614	0.678	0.631	0.694	0.672	6.41
74)	T	4-Nitroaniline			0.211	0.220	0.257	0.251	0.300	0.293	0.306	0.262	14.62
75)	T	4,6-Dinitro-o-cresol			0.085	0.096	0.138	0.156	0.205	0.213	0.243	*L	0.9911
76)	T	NDPA/DPA	1.102	1.197	1.200	1.057	1.107	1.057	1.152	1.093	1.217	1.131	5.49
77)	T	Azobenzene	1.261	1.308	1.303	1.184	1.229	1.197	1.301	1.229	1.321	1.259	4.08
78)	S	2,4,6-Tribromophenol	0.102	0.159	0.167	0.168	0.173	0.176	0.199	0.185	0.205	0.171	17.42
79)	T	4-Bromophenyl-phenylether	0.407	0.423	0.403	0.335	0.357	0.346	0.376	0.354	0.386	0.376	8.09
80)	T	Hexachlorobenzene	0.490	0.487	0.452	0.412	0.407	0.390	0.420	0.395	0.424	0.431	8.66
81)	T	Pentachlorophenol				0.183	0.237	0.237	0.276	0.271	0.307	0.252	17.04
82)	I	IS2_Acenaphthene-d10	----------ISTD----------										
83)	T	Dichloran				0.083	0.102	0.113	0.147	0.180	0.197	*Q	0.9978
84)	T	Pentachloronitrobenzene				0.105	0.122	0.133	0.161	0.181	0.194	*Q	0.9990
85)	I	IS3_Acenaphthene-d10	----------ISTD----------										
86)	T	Atrazine		0.287	0.298	0.345	0.329	0.356	0.389	0.427		0.347	14.16
87)	I	IS1_Phenanthrene-d10	----------ISTD----------										
88)	T	Phenanthrene	1.101	1.140	1.129	0.982	0.977	0.946	1.018	1.004	1.045	1.038	6.77
89)	T	Anthracene	1.033	1.102	1.077	0.952	0.981	0.943	1.057	1.033	1.089	1.030	5.70
90)	T	Carbazole	0.855	0.947	0.955	0.888	0.900	0.879	0.967	0.963	1.000	0.928	5.26
91)	T	Di-n-butylphthalate			0.950	0.935	0.993	1.044	1.218	1.222	1.256	1.088	12.82
92)	T	Fluoranthene	1.196	1.296	1.206	1.100	1.126	1.093	1.216	1.205	1.236	1.186	5.65
93)	T	Benzidine				0.568	0.649	0.674	0.798	0.798	0.837	0.721	14.68
94)	T	Pyrene	1.312	1.364	1.309	1.203	1.204	1.162	1.287	1.281	1.297	1.269	5.13
95)	S	4-Terphenyl-d14	0.913	0.909	0.915	0.815	0.832	0.800	0.885	0.895	0.912	0.875	5.29
96)	T	Butyl benzyl phthalate			0.306	0.326	0.392	0.422	0.520	0.549	0.573	*L	0.9962
97)	I	IS2_Phenanthrene-d10	----------ISTD----------										
98)	T	Diphenamid	0.370	0.378	0.415	0.410	0.431	0.433	0.500	0.517	0.551	0.445	14.19
99)	I	IS3_Phenanthrene-d10	----------ISTD----------										
100)	T	n-Octadecane	0.328	0.329	0.355	0.411	0.374	0.398	0.427	0.435	0.479	0.393	13.02
101)	T	Parathion			0.040	0.052	0.050	0.062	0.077	0.100	0.124	*Q	0.9987
102)	T	3,3'-Dimethylbenzidine				0.533	0.547	0.670	0.731	0.800	0.895	0.696	20.41#
103)	I	IS1_Chrysene-d12	----------ISTD----------										
104)	T	Benzo[a]anthracene	1.458	1.452	1.367	1.229	1.266	1.218	1.386	1.341	1.297	1.335	6.68
105)	T	3,3'-Dichlorobenzidine		0.337	0.377	0.378	0.421	0.432	0.498	0.508	0.487	0.430	14.76
106)	T	Chrysene		1.479	1.397	1.260	1.243	1.163	1.254	1.214	1.194	1.276	8.42
107)	T	bis(2-Ethylhexyl)phthalate		0.468	0.557	0.555	0.705	0.741	0.902	0.918		*L	0.9935
108)	T	Di-n-octylphthalate			0.724	0.790	1.067	1.147	1.474	1.571		*L	0.9918

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109) T	Benzo(b)fluoranthene	1.097	1.221	1.184	1.033	1.167	1.107	1.257	1.261	1.275	1.178	7.17
110) T	Benzo(k)fluoranthene	1.076	1.221	1.229	1.120	1.125	1.102	1.222	1.158	1.131	1.154	4.94
111) T	Benzo(a)pyrene	0.882	1.013	1.054	0.933	1.014	0.981	1.121	1.115	1.114	1.025	8.26
112) I	IS1_Perylene-d12	----------ISTD----------										
113) T	Indeno(1,2,3-cd)pyrene		0.780	0.794	0.802	0.959	0.887	1.113	1.110	1.169	0.952	16.81
114) T	Dibenzo[a,h]anthracene	0.705	0.838	0.942	0.917	0.952	0.961	1.104	1.069	1.089	0.953	13.41
115) T	Benzo(g,h,i)perylene	0.801	0.925	0.997	0.913	0.930	0.878	1.020	0.950	0.935	0.928	6.89

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21360**
Calibration dates	**: 07/30/24 19:25 07/31/24 07:43**		

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ADPL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine		0.624	0.767	0.690	0.709	0.713	0.729	0.717	0.734	0.710	5.84
3)	t	Pyridine		0.926	1.093	1.046	1.076	1.192	1.133	1.066	1.160	1.086	7.50
4)	S	2-Fluorophenol		0.970	1.079	1.023	1.072	1.084	1.124	1.101	1.186	1.080	5.97
5)	T	Aniline	1.690	1.824	1.749	1.712	1.707	1.641	1.829	1.825	1.908	1.765	4.86
6)	t	2-Chlorophenol	1.239	1.274	1.314	1.229	1.265	1.234	1.342	1.348	1.403	1.294	4.70
7)	S	Phenol-d6	1.250	1.403	1.443	1.386	1.371	1.328	1.476	1.493	1.566	1.413	6.68
8)	T	Phenol	1.525	1.651	1.602	1.506	1.512	1.452	1.578	1.599	1.673	1.566	4.64
9)	T	bis(2-Chloroethyl)ether	1.334	1.365	1.296	1.197	1.159	1.116	1.235	1.237	1.286	1.247	6.54
10)	T	1,3-Dichlorobenzene	1.625	1.839	1.597	1.526	1.500	1.472	1.555	1.532	1.641	1.587	6.92
11)	T	1,4-Dichlorobenzene	1.579	1.873	1.614	1.563	1.500	1.477	1.582	1.559	1.648	1.599	7.19
12)	T	1,2-Dichlorobenzene	1.492	1.802	1.637	1.481	1.437	1.427	1.553	1.593	1.633	1.562	7.67
13)	t	Benzyl alcohol		1.029	0.984	0.896	0.916	0.918	1.069	1.114	1.151	1.010	9.59
14)	T	bis(2-chloroisopropyl)ether	1.584	1.788	1.653	1.540	1.515	1.455	1.649	1.664	1.708	1.617	6.39
15)	T	2-Methylphenol	1.065	1.097	1.101	1.073	1.068	1.000	1.180	1.237	1.316	1.126	8.82
16)	T	Hexachloroethane	0.435	0.657	0.567	0.540	0.552	0.543	0.572	0.585	0.614	0.563	10.79
17)	T	n-Nitrosodi-n-propylamine		0.866	0.827	0.804	0.812	0.775	0.906	0.938	0.969	0.862	8.07
18)	T	3-Methylphenol/4-Methylphenol		1.280	1.234	1.157	1.179	1.090	1.278	1.325	1.386	1.241	7.76
19)	S	Nitrobenzene-d5	1.421	1.399	1.344	1.288	1.277	1.240	1.407	1.446	1.486	1.368	6.17
20)	T	Nitrobenzene	1.242	1.327	1.317	1.249	1.250	1.204	1.386	1.403	1.431	1.312	6.17
21)	T	Isophorone	2.288	2.249	2.253	2.150	2.273	2.121	2.526	2.581	2.652	2.344	8.22
22)	T	2-Nitrophenol				0.529	0.596	0.594	0.725	0.760	0.795	0.667	16.11
23)	T	2,4-Dimethylphenol		1.085	1.078	1.118	1.086	0.664	1.133	1.188	1.298	1.081	17.00
24)	T	bis(2-Chloroethoxy)methane	1.772	1.688	1.538	1.503	1.513	1.374	1.577	1.611	1.690	1.585	7.60
25)	T	2,4-Dichlorophenol		1.109	1.081	1.090	1.120	1.073	1.266	1.323	1.383	1.180	10.47
26)	T	1,2,4-Trichlorobenzene	1.386	1.596	1.469	1.329	1.303	1.245	1.387	1.425	1.504	1.405	7.69
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde		1.113	1.135	1.132	1.078	1.101	1.175	1.198	1.223	1.145	4.37
29)	T	Acetophenone		1.955	1.982	2.026	1.901	1.937	2.098	2.153	2.202	2.032	5.35
30)	T	m-Toluidine	1.270	1.621	1.725	1.791	1.838	1.902	2.105	2.210	2.276	1.860	16.85
31)	T	2-Chloroaniline	1.465	1.578	1.717	1.763	1.706	1.767	1.913	1.985	2.060	1.773	10.69
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)		1,4-Dioxane		0.485	0.487	0.521	0.437	0.401	0.468	0.430	0.446	0.459	8.33
34)	T	n-Decane	1.305	1.364	1.381	1.475	1.372	1.263	1.425	1.402	1.509	1.388	5.54
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.325	1.285	1.153	1.086	1.018	0.995	1.087	1.085	1.154	1.132	9.86

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21360**
Calibration dates	**: 07/30/24 19:25 07/31/24 07:43**		

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ADPL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD	
37)	T	Benzoic Acid					0.141	0.169	0.227	0.248	0.272		*L	0.9979
38)	T	4-Chloroaniline	0.106	0.129	0.120	0.127	0.121	0.121	0.134	0.135	0.144	0.126	8.66	
39)	T	Hexachlorobutadiene	0.207	0.271	0.226	0.212	0.213	0.205	0.221	0.224	0.235	0.224	8.96	
40)	T	p-Chloro-m-cresol	0.217	0.276	0.271	0.272	0.274	0.258	0.315	0.319	0.345	0.283	13.43	
41)	T	2-Methylnaphthalene	0.825	0.784	0.716	0.702	0.687	0.656	0.736	0.735	0.793	0.737	7.41	
42)	T	1-Methylnaphthalene	0.212	0.276	0.236	0.226	0.224	0.218	0.244	0.245	0.263	0.238	8.97	
43)	T	Hexachlorocyclopentadiene	0.164	0.216	0.205	0.204	0.199	0.198	0.231	0.234	0.255	0.212	12.42	
44)	T	2,4,6-Trichlorophenol	0.167	0.222	0.209	0.227	0.233	0.219	0.264	0.272	0.294	0.234	16.11	
45)	T	2,4,5-Trichlorophenol	0.170	0.235	0.231	0.239	0.244	0.237	0.283	0.291	0.307	0.249	16.38	
46)	S	2-Fluorobiphenyl	0.972	1.060	0.884	0.851	0.817	0.767	0.890	0.897	0.961	0.900	9.79	
47)	T	2-Chloronaphthalene	0.858	0.850	0.745	0.729	0.711	0.650	0.756	0.760	0.808	0.763	8.75	
48)	T	2-Nitroaniline			0.155	0.170	0.193	0.181	0.236	0.238	0.255	0.204	18.91	
49)	T	1,4-Dinitrobenzene					0.097	0.089	0.118	0.120	0.125	0.110	14.44	
50)	T	1,3-Dinitrobenzene					0.111	0.105	0.137	0.141	0.151	0.129	15.31	
51)	T	Dimethyl phthalate		0.935	0.868	0.833	0.836	0.737	0.885	0.878	0.930	0.863	7.31	
52)	T	Acenaphthylene	1.141	1.182	1.070	1.063	1.061	0.984	1.192	1.209	1.291	1.132	8.41	
53)	T	2,6-Dinitrotoluene			0.137	0.157	0.164	0.153	0.189	0.184	0.198	0.169	12.99	
54)	T	1,2-Dinitrobenzene			0.060	0.068	0.075	0.068	0.087	0.087	0.093	0.077	16.17	
55)	I	IS2_Naphthalene-d8	----------ISTD----------											
56)	T	a-Terpineol	0.187	0.279	0.269	0.280	0.281	0.305	0.337	0.359	0.373	0.297	18.90	
57)	T	3-Chloroaniline		0.137	0.151	0.150	0.156	0.165	0.179	0.179	0.185	0.163	10.60	
58)	T	2,6-Dichlorophenol	0.202	0.277	0.299	0.308	0.315	0.332	0.361	0.382	0.400	0.319	18.62	
59)	T	1-chloro-2-nitrobenzene		0.128	0.136	0.147	0.151	0.154	0.169	0.175	0.180	0.155	12.00	
60)	T	Caprolactam				0.105	0.134	0.151	0.183	0.191	0.191		*L	0.9988
61)	T	1,2,4,5-Tetrachlorobenzene	0.443	0.435	0.442	0.429	0.427	0.425	0.455	0.457	0.484	0.444	4.24	
62)	T	Biphenyl	0.952	1.044	1.044	0.993	0.991	0.977	1.060	1.113	1.147	1.036	6.22	
63)	I	IS1_Acenaphthene-d10	----------ISTD----------											
64)	T	3-Nitroaniline			0.278	0.303	0.313	0.311	0.336	0.339	0.360	0.320	8.44	
65)	T	Acenaphthene	1.218	1.273	1.188	1.104	1.021	1.022	1.083	1.136	1.198	1.138	7.76	
66)	T	2,4-Dinitrophenol				0.084	0.124	0.134	0.193	0.218	0.230		*L	0.9940
67)	T	Dibenzofuran	2.280	2.138	1.895	1.802	1.687	1.641	1.747	1.808	1.913	1.879	11.15	
68)	T	2,4-Dinitrotoluene			0.337	0.351	0.395	0.373	0.438	0.470	0.495	0.408	14.87	
69)	T	4-Nitrophenol				0.222	0.245	0.239	0.261	0.271	0.281	0.253	8.58	
70)	T	2,3,5,6-Tetrachlorophenol	0.197	0.299	0.336	0.333	0.348	0.338	0.389	0.402	0.427	0.341	19.68	
71)	T	2,3,4,6-Tetrachlorophenol	0.201	0.266	0.308	0.324	0.340	0.333	0.371	0.378	0.408	0.325	19.20	
72)	T	Diethyl phthalate	1.375	1.432	1.374	1.252	1.250	1.154	1.322	1.361	1.423	1.327	6.91	

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21360**
Calibration dates	**: 07/30/24 19:25 07/31/24 07:43**		

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ADPL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD	
73)	T	Fluorene	1.456	1.525	1.451	1.329	1.295	1.256	1.361	1.426	1.539	1.404	7.11	
74)	T	4-Chlorophenyl-phenylether	0.799	0.814	0.735	0.664	0.651	0.629	0.678	0.702	0.744	0.713	9.10	
75)	T	4-Nitroaniline			0.278	0.300	0.318	0.301	0.355	0.340	0.350	0.320	8.98	
76)	T	4,6-Dinitro-o-cresol			0.109	0.136	0.186	0.185	0.252	0.271	0.287			*L 0.9939
77)	T	NDPA/DPA	1.043	1.225	1.234	1.127	1.112	1.057	1.178	1.219	1.297	1.166	7.40	
78)	T	Azobenzene	1.162	1.290	1.300	1.178	1.204	1.129	1.249	1.232	1.294	1.226	5.08	
79)	S	2,4,6-Tribromophenol			0.171	0.159	0.175	0.170	0.190	0.214	0.232	0.187	14.31	
80)	T	4-Bromophenyl-phenylether	0.405	0.392	0.386	0.370	0.371	0.341	0.385	0.390	0.423	0.385	6.04	
81)	T	Hexachlorobenzene		0.437	0.445	0.420	0.394	0.381	0.415	0.437	0.469	0.425	6.62	
82)	T	Pentachlorophenol				0.192	0.240	0.234	0.298	0.327	0.345			*L 0.9960
83)	I	IS2_Acenaphthene-d10	----------ISTD----------											
84)	T	Dichloran				0.122	0.142	0.164	0.212	0.248	0.253			*L 0.9948
85)	T	Pentachloronitrobenzene				0.133	0.159	0.166	0.199	0.221	0.225			*L 0.9975
86)	I	IS3_Acenaphthene-d10	----------ISTD----------											
87)	T	Atrazine		0.249	0.284	0.293	0.307	0.315	0.369	0.386		0.315	15.27	
88)	I	IS1_Phenanthrene-d10	----------ISTD----------											
89)	T	Phenanthrene	1.312	1.332	1.162	1.089	1.016	1.017	1.107	1.132	1.194	1.151	9.86	
90)	T	Anthracene	1.105	1.151	1.050	1.039	0.991	0.991	1.111	1.140	1.222	1.089	7.11	
91)	T	Carbazole	0.904	0.969	0.974	0.960	0.930	0.920	1.062	1.071	1.153	0.994	8.41	
92)	T	Di-n-butylphthalate			0.916	0.932	0.979	0.945	1.199	1.313	1.375	1.094	17.94	
93)	T	Fluoranthene	1.268	1.306	1.223	1.157	1.181	1.138	1.279	1.384	1.415	1.261	7.68	
94)	T	Benzidine				0.535	0.618	0.533	0.763	0.778	0.895			*L 0.9908
95)	T	Pyrene	1.429	1.455	1.354	1.285	1.270	1.229	1.363	1.456	1.505	1.372	6.99	
96)	S	4-Terphenyl-d14	0.939	0.964	0.947	0.910	0.888	0.825	0.923	1.043	1.074	0.946	8.01	
97)	T	Butyl benzyl phthalate			0.318	0.342	0.401	0.384	0.557	0.620	0.652			*L 0.9907
98)	I	IS2_Phenanthrene-d10	----------ISTD----------											
99)	T	Diphenamid			0.398	0.403	0.444	0.484	0.554	0.623	0.639	0.507	19.79	
100)	I	IS3_Phenanthrene-d10	----------ISTD----------											
101)	T	n-Octadecane	0.286	0.314	0.366	0.378	0.385	0.375	0.422	0.435	0.471	0.381	15.10	
102)	T	Parathion			0.053	0.053	0.056	0.066	0.091	0.109	0.134			*Q 0.9983
103)	T	3,3'-Dimethylbenzidine				0.377	0.480	0.541	0.757	0.800	0.926			*L 0.9909
104)	I	IS1_Chrysene-d12	----------ISTD----------											
105)	T	Benzo[a]anthracene	1.617	1.570	1.439	1.357	1.331	1.335	1.472	1.474	1.485	1.453	6.91	
106)	T	3,3'-Dichlorobenzidine		0.323	0.338	0.374	0.418	0.422	0.521	0.547	0.554			*L 0.9961
107)	T	Chrysene		1.739	1.499	1.395	1.295	1.286	1.337	1.326	1.350	1.403	10.81	
108)	T	bis(2-Ethylhexyl)phthalate		0.527	0.534	0.564	0.662	0.667	0.862	0.884	0.905			*Q 0.9973

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21360**
Calibration dates	**: 07/30/24 19:25 07/31/24 07:43**		

Calibration Files

L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ADPL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109)	T	Di-n-octylphthalate			0.742	0.786	0.999	1.008	1.405	1.499	1.568	*L	0.9935
110)	T	Benzo(b)fluoranthene	1.184	1.338	1.252	1.212	1.197	1.198	1.244	1.304	1.334	1.251	4.80
111)	T	Benzo(k)fluoranthene	1.077	1.225	1.303	1.168	1.262	1.274	1.320	1.352	1.281	1.251	6.75
112)	T	Benzo(a)pyrene	0.929	1.038	1.086	1.053	1.096	1.109	1.188	1.196	1.211	1.101	8.19
113)	I	IS1_Perylene-d12	----------ISTD----------										
114)	T	Indeno(1,2,3-cd)pyrene		1.038	1.025	0.971	1.020	1.069	1.195	1.207	1.259	1.098	9.69
115)	T	Dibenzo[a,h]anthracene	0.861	1.013	1.025	1.013	1.012	1.043	1.125	1.166	1.242	1.056	10.39
116)	T	Benzo(g,h,i)perylene	0.957	1.101	0.996	0.983	0.996	1.024	1.039	0.894	0.806	0.977	8.78

Response Factor Report SV107

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	ISTD										
2)	t	N-Nitrosodimethylamine	0.659	0.739	0.752	0.641	0.668	0.690	0.727	0.727	0.732	0.704	5.69
3)	t	Pyridine		1.316	1.325	1.070	1.126	1.152	1.185	1.208	1.213	1.199	7.32
4)	S	2-Fluorophenol	1.034	1.081	1.155	0.964	1.016	1.037	1.109	1.105	1.120	1.069	5.64
5)	T	Aniline	1.687	1.734	1.822	1.574	1.612	1.631	1.778	1.767	1.812	1.713	5.30
6)	t	2-Chlorophenol	1.179	1.224	1.263	1.020	1.098	1.126	1.218	1.225	1.253	1.178	6.89
7)	S	Phenol-d6	1.278	1.335	1.459	1.201	1.240	1.264	1.354	1.363	1.402	1.322	6.26
8)	T	Phenol	1.406	1.526	1.559	1.291	1.349	1.358	1.464	1.467	1.523	1.438	6.41
9)	T	bis(2-Chloroethyl)ether	1.250	1.343	1.302	1.036	1.078	1.092	1.189	1.171	1.206	1.185	8.74
10)	T	1,3-Dichlorobenzene	1.520	1.599	1.506	1.281	1.350	1.362	1.480	1.467	1.500	1.452	6.91
11)	T	1,4-Dichlorobenzene	1.519	1.712	1.553	1.305	1.361	1.387	1.479	1.469	1.515	1.478	8.11
12)	T	1,2-Dichlorobenzene	1.523	1.524	1.499	1.271	1.316	1.337	1.438	1.446	1.477	1.426	6.64
13)	t	Benzyl alcohol	0.983	1.013	1.035	0.892	0.918	0.948	1.041	1.068	1.105	1.000	7.08
14)	T	bis(2-chloroisopropyl)ether	1.700	1.723	1.762	1.433	1.473	1.502	1.662	1.658	1.695	1.623	7.43
15)	T	2-Methylphenol	1.015	1.022	1.072	0.906	0.949	0.992	1.080	1.097	1.145	1.031	7.32
16)	T	Hexachloroethane	0.564	0.574	0.599	0.476	0.490	0.517	0.560	0.554	0.571	0.545	7.60
17)	T	n-Nitrosodi-n-propylamine	0.915	0.891	0.880	0.787	0.817	0.835	0.919	0.922	0.948	0.879	6.20
18)	T	3-Methylphenol/4-Methylphenol	0.950	1.121	1.084	0.986	1.020	1.081	1.148	1.161	1.207	1.084	7.87
19)	S	Nitrobenzene-d5	1.086	1.168	1.154	1.010	1.068	1.154	1.252	1.286	1.303	1.165	8.65
20)	T	Nitrobenzene	1.134	1.157	1.216	1.047	1.112	1.187	1.290	1.296	1.332	1.197	7.95
21)	T	Isophorone	2.159	2.232	2.371	2.159	2.198	2.247	2.470	2.450	2.506	2.310	6.04
22)	T	2-Nitrophenol				0.395	0.468	0.498	0.584	0.619	0.635	0.533	17.81
23)	T	2,4-Dimethylphenol	1.049	1.057	1.116	1.007	1.025	1.054	1.126	1.146	1.208	1.088	6.01
24)	T	bis(2-Chloroethoxy)methane	1.538	1.541	1.569	1.414	1.406	1.410	1.558	1.547	1.585	1.508	4.95
25)	T	2,4-Dichlorophenol	0.960	1.048	1.114	0.980	1.043	1.092	1.181	1.191	1.236	1.094	8.75
26)	T	1,2,4-Trichlorobenzene	1.385	1.429	1.413	1.145	1.228	1.221	1.336	1.343	1.367	1.318	7.42
27)	I	IS2_1,4-Dichlorobenzene-d4	ISTD										
28)	T	Benzaldehyde	1.042	1.090	1.002	1.018	0.972	0.961	1.028	1.023	1.078	1.024	4.21
29)	T	Acetophenone	1.757	1.693	1.775	1.718	1.676	1.701	1.823	1.839	1.949	1.770	4.98
30)	T	m-Toluidine	1.089	1.425	1.582	1.564	1.596	1.637	1.765	1.831	1.903	1.599	15.11
31)	T	2-Chloroaniline	1.488	1.575	1.472	1.473	1.477	1.505	1.601	1.616	1.711	1.546	5.45
32)	I	IS3_1,4-Dichlorobenzene-d4	ISTD										
33)	T	n-Decane	1.520	1.486	1.462	1.525	1.368	1.337	1.406	1.417	1.504	1.447	4.71
34)	I	IS1_Naphthalene-d8	ISTD										
35)	T	Naphthalene	1.083	1.118	1.062	0.891	0.943	0.924	0.975	0.964	1.002	0.996	7.74
36)	T	Benzoic Acid					0.124	0.165	0.205	0.229	0.243	*L	0.9992
37)	T	4-Chloroaniline	0.129	0.121	0.129	0.115	0.123	0.120	0.130	0.129	0.135	0.126	4.95
38)	T	Hexachlorobutadiene	0.214	0.247	0.227	0.181	0.194	0.196	0.215	0.207	0.214	0.211	9.32
39)	T	p-Chloro-m-cresol	0.249	0.255	0.255	0.255	0.263	0.274	0.297	0.295	0.307	0.272	8.12
40)	T	2-Methylnaphthalene	0.695	0.742	0.720	0.635	0.643	0.655	0.701	0.682	0.724	0.688	5.50
41)	T	1-Methylnaphthalene	0.242	0.253	0.245	0.217	0.222	0.220	0.239	0.232	0.243	0.235	5.40
42)	T	Hexachlorocyclopentadiene	0.181	0.215	0.200	0.169	0.191	0.196	0.225	0.231	0.239	0.205	11.50
43)	T	2,4,6-Trichlorophenol	0.188	0.227	0.228	0.215	0.230	0.242	0.264	0.257	0.279	0.237	11.57
44)	T	2,4,5-Trichlorophenol	0.220	0.240	0.243	0.225	0.245	0.256	0.273	0.278	0.279	0.251	8.74
45)	S	2-Fluorobiphenyl	0.900	0.914	0.940	0.791	0.820	0.822	0.877	0.856	0.873	0.866	5.61

Response Factor Report SV107

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
46)	T	2-Chloronaphthalene	0.713	0.793	0.758	0.653	0.673	0.675	0.722	0.710	0.741	0.715	6.24
47)	T	2-Nitroaniline			0.144	0.135	0.150	0.174	0.196	0.201	0.211	0.173	17.54
48)	T	1,4-Dinitrobenzene					0.066	0.076	0.092	0.097	0.104	0.087	18.10
49)	T	1,3-Dinitrobenzene					0.084	0.099	0.112	0.120	0.128	0.109	15.85
50)	T	Dimethyl phthalate	0.827	0.896	0.845	0.791	0.805	0.809	0.851	0.848	0.877	0.839	4.10
51)	T	Acenaphthylene	1.034	1.123	1.090	1.004	1.020	1.050	1.132	1.117	1.145	1.079	4.93
52)	T	2,6-Dinitrotoluene			0.116	0.124	0.145	0.159	0.171	0.174	0.178	0.153	16.32
53)	T	1,2-Dinitrobenzene			0.053	0.055	0.064	0.070	0.076	0.078	0.081	0.068	16.41
54)	I	IS2_Naphthalene-d8	ISTD										
55)	T	a-Terpineol	0.273	0.249	0.277	0.273	0.260	0.258	0.287	0.300	0.310	0.276	7.15
56)	T	3-Chloroaniline	0.129	0.147	0.149	0.148	0.147	0.140	0.151	0.156	0.159	0.147	6.14
57)	T	2,6-Dichlorophenol	0.238	0.256	0.283	0.276	0.285	0.281	0.317	0.331	0.343	0.290	11.85
58)	T	1-chloro-2-nitrobenzene	0.102	0.121	0.114	0.108	0.113	0.111	0.133	0.142	0.147	0.121	13.04
59)	T	Caprolactam				0.125	0.133	0.142	0.161	0.167	0.167	0.149	12.11
60)	T	1,2,4,5-Tetrachlorobenzene	0.422	0.408	0.419	0.393	0.382	0.368	0.397	0.410	0.419	0.402	4.58
61)	T	Biphenyl	0.924	0.964	0.962	0.896	0.893	0.854	0.918	0.969	0.982	0.929	4.65
62)	I	IS1_Acenaphthene-d10	ISTD										
63)	T	3-Nitroaniline			0.216	0.207	0.251	0.257	0.283	0.289	0.313	0.259	14.84
64)	T	Acenaphthene	1.135	1.206	1.151	1.031	0.986	0.974	1.060	1.061	1.126	1.081	7.24
65)	T	2,4-Dinitrophenol				0.061	0.096	0.113	0.138	0.155	0.179	*L	0.9922
66)	T	Dibenzofuran	1.883	1.958	1.830	1.645	1.680	1.604	1.751	1.677	1.782	1.757	6.69
67)	T	2,4-Dinitrotoluene			0.248	0.253	0.303	0.325	0.375	0.394	0.436	*L	0.9948
68)	T	4-Nitrophenol				0.179	0.210	0.207	0.238	0.236	0.259	0.221	12.91
69)	T	2,3,5,6-Tetrachlorophenol	0.221	0.289	0.313	0.285	0.326	0.322	0.366	0.353	0.384	0.318	15.48
70)	T	2,3,4,6-Tetrachlorophenol	0.253	0.289	0.296	0.291	0.322	0.322	0.350	0.337	0.363	0.314	11.01
71)	T	Diethyl phthalate	1.336	1.322	1.369	1.203	1.280	1.196	1.330	1.277	1.400	1.301	5.33
72)	T	Fluorene	1.372	1.431	1.383	1.243	1.281	1.233	1.333	1.273	1.405	1.328	5.52
73)	T	4-Chlorophenyl-phenylether	0.725	0.721	0.710	0.627	0.647	0.614	0.678	0.631	0.694	0.672	6.41
74)	T	4-Nitroaniline			0.211	0.220	0.257	0.251	0.300	0.293	0.306	0.262	14.62
75)	T	4,6-Dinitro-o-cresol			0.085	0.096	0.138	0.156	0.205	0.213	0.243	*L	0.9911
76)	T	NDPA/DPA	1.102	1.197	1.200	1.057	1.107	1.057	1.152	1.093	1.217	1.131	5.49
77)	T	Azobenzene	1.261	1.308	1.303	1.184	1.229	1.197	1.301	1.229	1.321	1.259	4.08
78)	S	2,4,6-Tribromophenol	0.102	0.159	0.167	0.168	0.173	0.176	0.199	0.185	0.205	0.171	17.42
79)	T	4-Bromophenyl-phenylether	0.407	0.423	0.403	0.335	0.357	0.346	0.376	0.354	0.386	0.376	8.09
80)	T	Hexachlorobenzene	0.490	0.487	0.452	0.412	0.407	0.390	0.420	0.395	0.424	0.431	8.66
81)	T	Pentachlorophenol				0.183	0.237	0.237	0.276	0.271	0.307	0.252	17.04
82)	I	IS2_Acenaphthene-d10	ISTD										
83)	T	Dichloran				0.083	0.102	0.113	0.147	0.180	0.197	*Q	0.9978
84)	T	Pentachloronitrobenzene				0.105	0.122	0.133	0.161	0.181	0.194	*Q	0.9990
85)	I	IS3_Acenaphthene-d10	ISTD										
86)	T	Atrazine		0.287	0.298	0.345	0.329	0.356	0.389	0.427		0.347	14.16
87)	I	IS1_Phenanthrene-d10	ISTD										
88)	T	Phenanthrene	1.101	1.140	1.129	0.982	0.977	0.946	1.018	1.004	1.045	1.038	6.77
89)	T	Anthracene	1.033	1.102	1.077	0.952	0.981	0.943	1.057	1.033	1.089	1.030	5.70
90)	T	Carbazole	0.855	0.947	0.955	0.888	0.900	0.879	0.967	0.963	1.000	0.928	5.26

Response Factor Report SV107

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

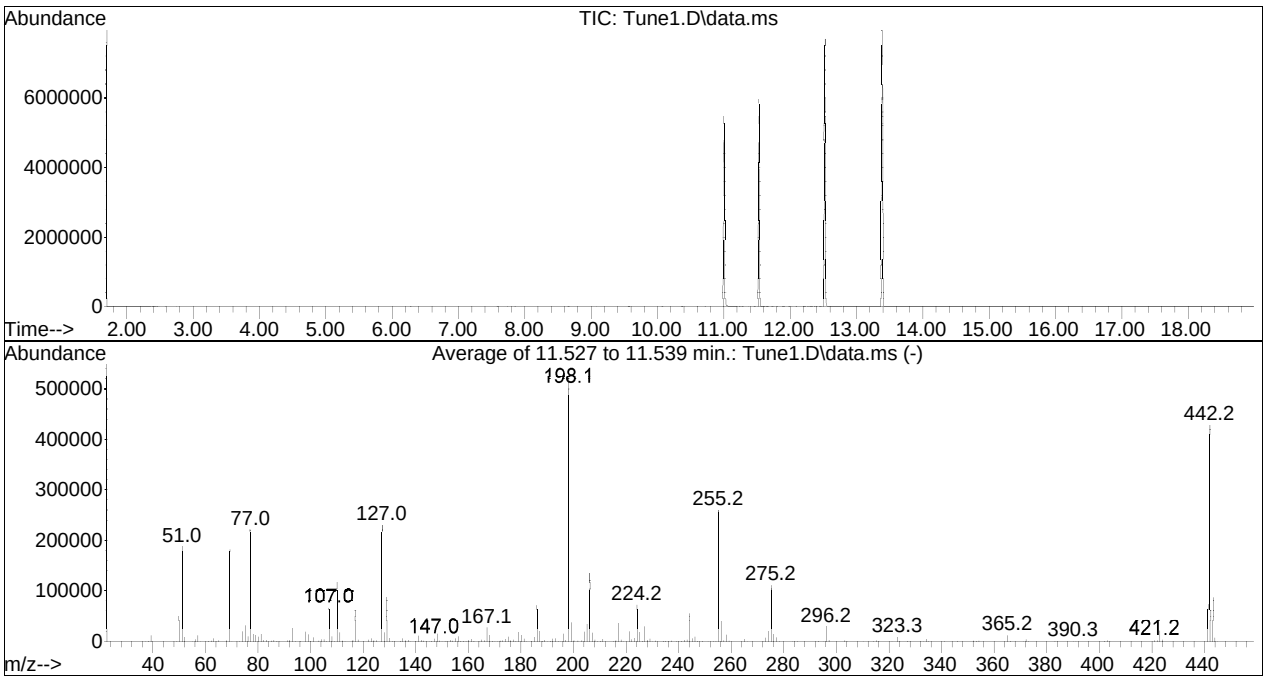
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
91)	T	Di-n-butylphthalate			0.950	0.935	0.993	1.044	1.218	1.222	1.256	1.088	12.82
92)	T	Fluoranthene	1.196	1.296	1.206	1.100	1.126	1.093	1.216	1.205	1.236	1.186	5.65
93)	T	Benzidine				0.568	0.649	0.674	0.798	0.798	0.837	0.721	14.68
94)	T	Pyrene	1.312	1.364	1.309	1.203	1.204	1.162	1.287	1.281	1.297	1.269	5.13
95)	S	4-Terphenyl-d14	0.913	0.909	0.915	0.815	0.832	0.800	0.885	0.895	0.912	0.875	5.29
96)	T	Butyl benzyl phthalate			0.306	0.326	0.392	0.422	0.520	0.549	0.573	*L	0.9962
97)	I	IS2_Phenanthrene-d10	----------ISTD----------										
98)	T	Diphenamid	0.370	0.378	0.415	0.410	0.431	0.433	0.500	0.517	0.551	0.445	14.19
99)	I	IS3_Phenanthrene-d10	----------ISTD----------										
100)	T	n-Octadecane	0.328	0.329	0.355	0.411	0.374	0.398	0.427	0.435	0.479	0.393	13.02
101)	T	Parathion			0.040	0.052	0.050	0.062	0.077	0.100	0.124	*Q	0.9987
102)	T	3,3'-Dimethylbenzidine				0.533	0.547	0.670	0.731	0.800	0.895	0.696	20.41#
103)	I	IS1_Chrysene-d12	----------ISTD----------										
104)	T	Benzo[a]anthracene	1.458	1.452	1.367	1.229	1.266	1.218	1.386	1.341	1.297	1.335	6.68
105)	T	3,3'-Dichlorobenzidine		0.337	0.377	0.378	0.421	0.432	0.498	0.508	0.487	0.430	14.76
106)	T	Chrysene		1.479	1.397	1.260	1.243	1.163	1.254	1.214	1.194	1.276	8.42
107)	T	bis(2-Ethylhexyl)phthalate		0.468	0.557	0.555	0.705	0.741	0.902	0.918		*L	0.9935
108)	T	Di-n-octylphthalate			0.724	0.790	1.067	1.147	1.474	1.571		*L	0.9918
109)	T	Benzo(b)fluoranthene	1.097	1.221	1.184	1.033	1.167	1.107	1.257	1.261	1.275	1.178	7.17
110)	T	Benzo(k)fluoranthene	1.076	1.221	1.229	1.120	1.125	1.102	1.222	1.158	1.131	1.154	4.94
111)	T	Benzo(a)pyrene	0.882	1.013	1.054	0.933	1.014	0.981	1.121	1.115	1.114	1.025	8.26
112)	I	IS1_Perylene-d12	----------ISTD----------										
113)	T	Indeno(1,2,3-cd)pyrene		0.780	0.794	0.802	0.959	0.887	1.113	1.110	1.169	0.952	16.81
114)	T	Dibenzo[a,h]anthracene	0.705	0.838	0.942	0.917	0.952	0.961	1.104	1.069	1.089	0.953	13.41
115)	T	Benzo(g,h,i)perylene	0.801	0.925	0.997	0.913	0.930	0.878	1.020	0.950	0.935	0.928	6.89

(#) = Out of Range

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024



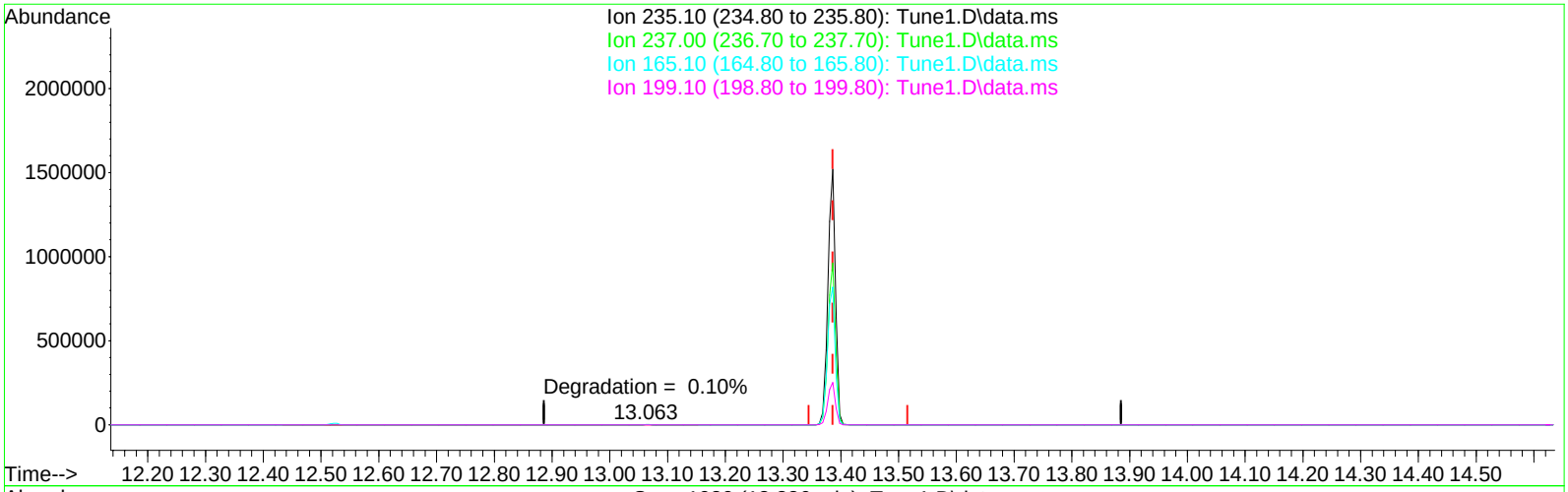
Spectrum Information: Average of 11.527 to 11.539 min.

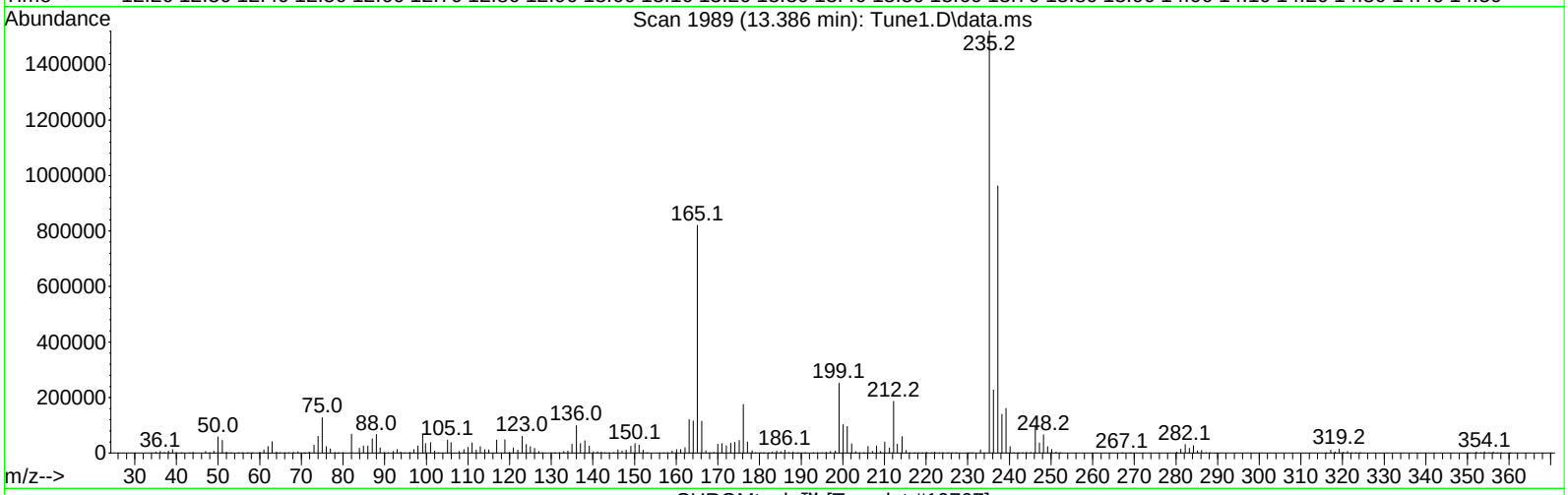
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.9	187531	PASS
68	69	0.00	2	1.7	3108	PASS
69	69	100	100	100.0	182483	PASS
70	69	0.00	2	0.6	1027	PASS
127	198	10	80	44.0	229973	PASS
197	198	0.00	2	0.8	4040	PASS
198	198	100	100	100.0	522133	PASS
199	198	5	9	6.8	35451	PASS
275	198	10	60	21.3	111272	PASS
365	198	1	100	2.3	12158	PASS
441	442	0.01	24	16.8	72077	PASS
442	198	50	100	82.0	427989	PASS
443	442	15	24	20.2	86597	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:04:42 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(6) DDT (T)

13.386min (+ 0.000) 228.98

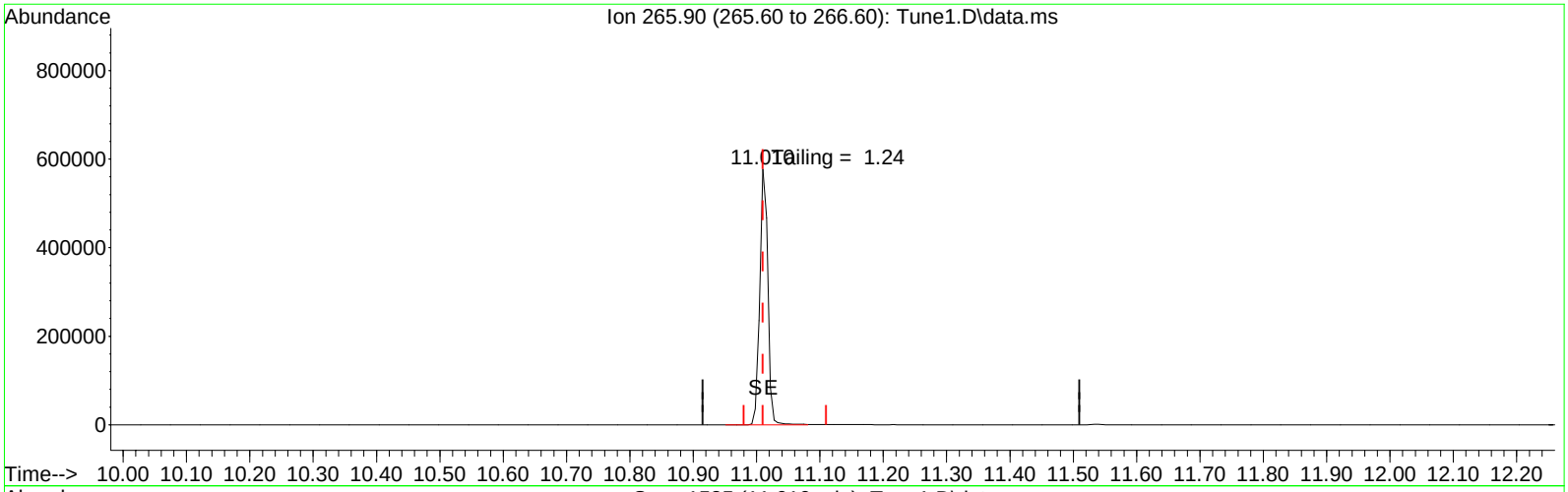
response 1395788

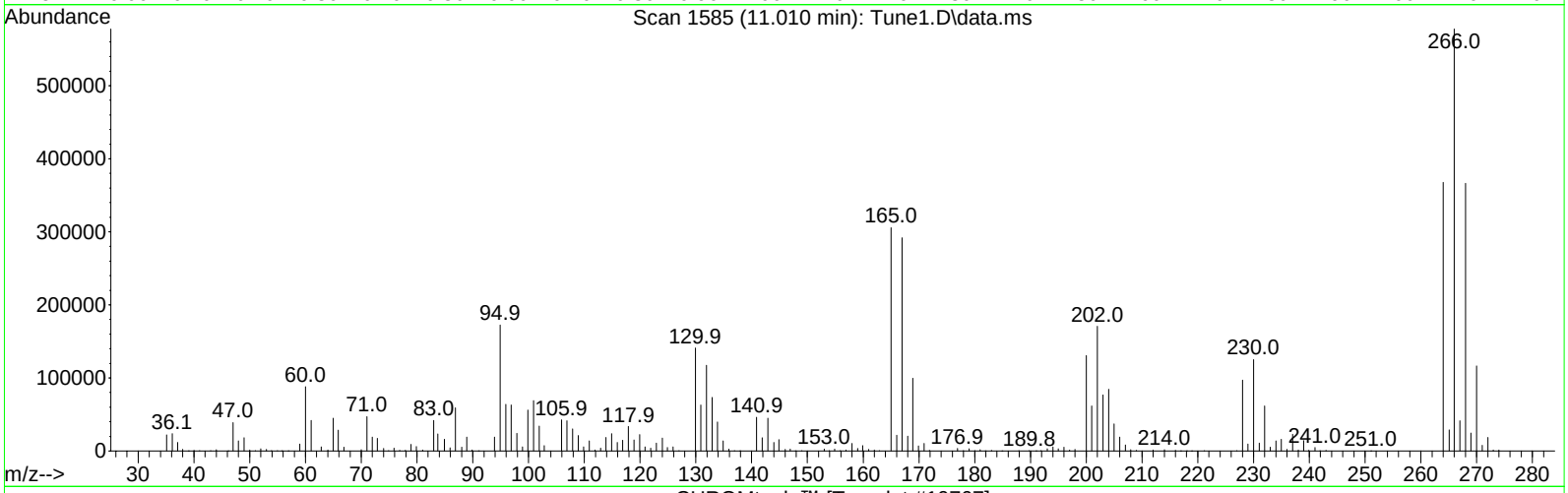
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	63.53
165.10	55.40	55.28
199.10	16.20	16.69

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:04:42 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(1) Pentachlorophenol (T)

11.010min (-0.000) 240.75

response 505661

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

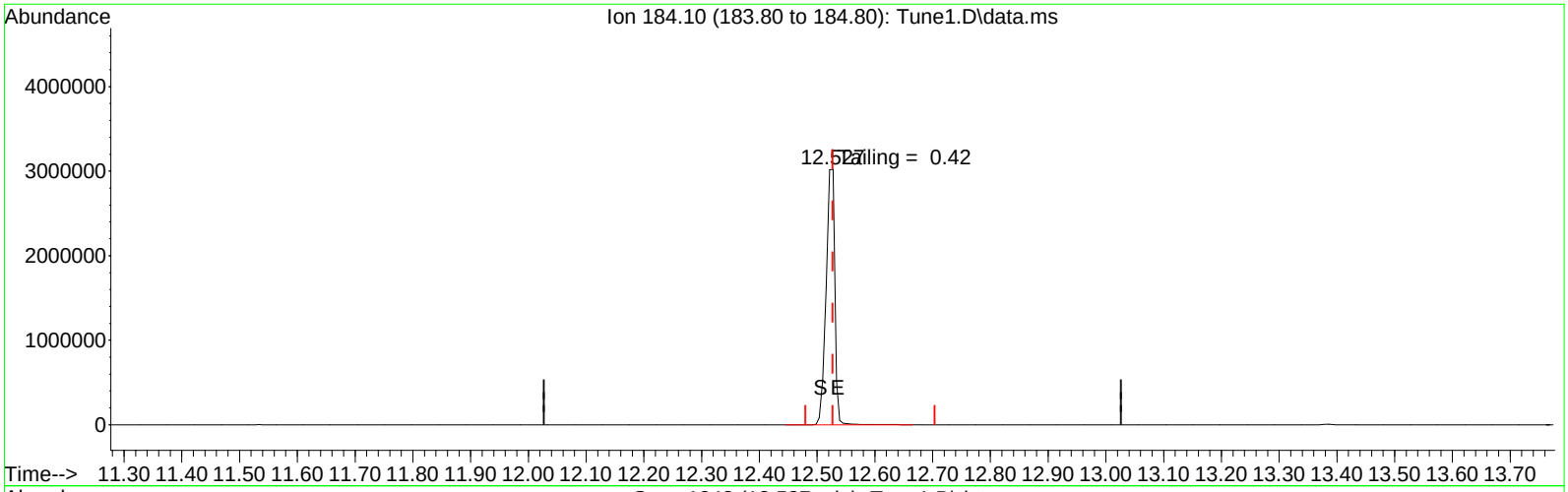
Duplicate Retention Times

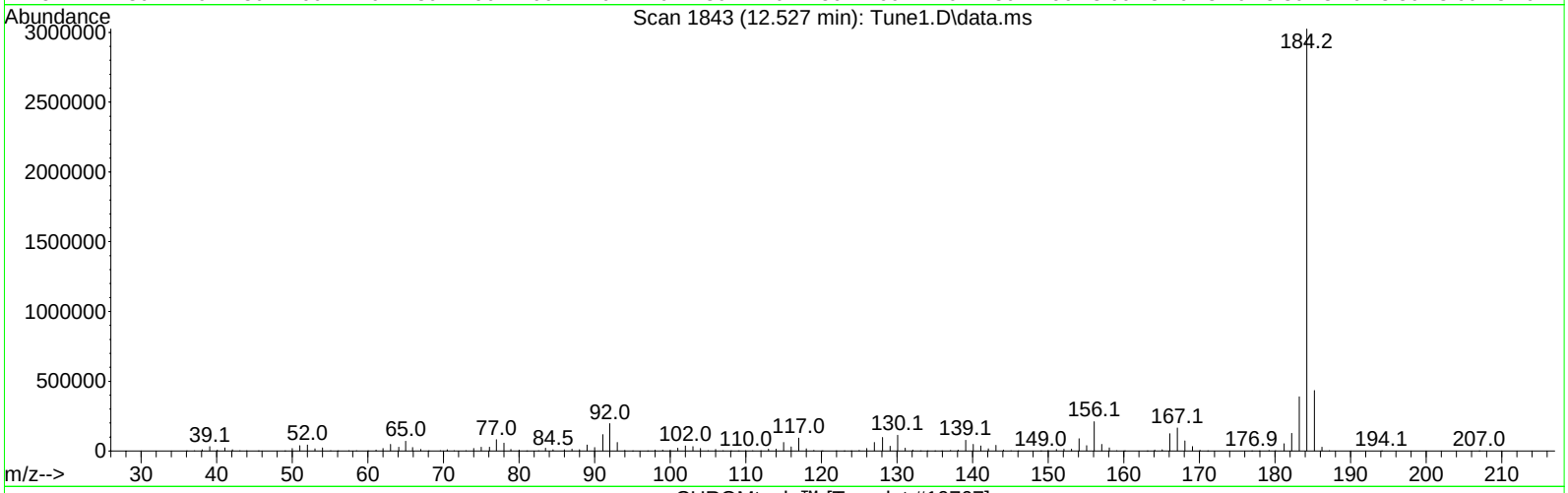
(2) DFTPP 198.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:04:42 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(3) Benzidine (T)

12.527min (+ 0.000) 310.23

response 3158173

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	52092	4.000	ug/ml	# 0.00
Standard Area 1 = 52051			Recovery = 100.08%			
34) IS1_Naphthalene-d8	7.963	136	196006	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 102.97%			
62) IS1_Acenaphthene-d10	9.733	164	120488	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 97.19%			
87) IS1_Phenanthrene-d10	11.174	188	241169	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 95.61%			
103) IS1_Chrysene-d12	13.845	240	226976	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 97.03%			
112) IS1_Perylene-d12	15.321	264	215373	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 89.34%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.692	112	729562	47.770	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2388.50%#			
7) Phenol-d6	6.169	99	913206	47.155	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 2357.75%#			
19) Nitrobenzene-d5	7.192	82	848672	47.774	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4777.40%#			
45) 2-Fluorobiphenyl	9.086	172	2139322	47.429	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4742.90%#			
78) 2,4,6-Tribromophenol	10.510	330	308756	68.577	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 3428.85%#			
95) 4-Terphenyl-d14	12.768	244	2749792	51.791	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 5179.10%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.263	74	476466	44.380	ug/ml#	67
3) Pyridine	2.310	79	789847M3	50.615	ug/ml	
5) Aniline	6.134	93	1179796	51.274	ug/ml	98
6) 2-Chlorophenol	6.281	128	815776	48.639	ug/ml	94
8) Phenol	6.186	94	991965	46.986	ug/ml	97
9) Bis(2-chloroethyl)ether	6.257	93	785125	44.809	ug/ml#	85
10) 1,3-Dichlorobenzene	6.463	146	976808	46.986	ug/ml	98
11) 1,4-Dichlorobenzene	6.557	146	986681	46.274	ug/ml	98
12) 1,2-Dichlorobenzene	6.734	146	961491	47.316	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.745	79	719447	51.831	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	1103416	46.642	ug/ml#	45
15) 2-Methylphenol	6.910	108	745396	50.435	ug/ml	98
16) Hexachloroethane	7.122	117	371487	48.927	ug/ml#	63
17) n-Nitrosodi-n-propylamine	7.069	70	617228	51.768	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.098	108	786206	49.161	ug/ml	98
20) Nitrobenzene	7.210	77	867466	47.687	ug/ml	99
21) Isophorone	7.492	82	1631961	52.056	ug/ml	97
22) 2-Nitrophenol	7.569	139	413598	55.352	ug/ml	91
23) 2,4-Dimethylphenol	7.669	107	786698	63.139	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.763	93	1032309	48.807	ug/ml	98
25) 2,4-Dichlorophenol	7.833	162	804676	55.165	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.916	180	890261	46.778	ug/ml	97
35) Naphthalene	7.981	128	2455182	44.647	ug/ml	98
36) Benzoic Acid	7.857	105	594990M3	46.450	ug/ml	
37) 4-Chloroaniline	8.063	65	329663	48.950	ug/ml	90
38) Hexachlorobutadiene	8.145	225	524479	47.024	ug/ml	99
39) p-Chloro-m-cresol	8.586	107	752356	53.913	ug/ml	98
40) 2-Methylnaphthalene	8.704	142	1773515	48.547	ug/ml	96
41) 1-Methylnaphthalene	8.798	115	595801	47.696	ug/ml	97
42) Hexachlorocyclopentadiene	8.880	237	585777	72.368	ug/ml	98
43) 2,4,6-Trichlorophenol	8.998	196	683883	61.941	ug/ml	98
44) 2,4,5-Trichlorophenol	9.027	196	684500	57.154	ug/ml	99
46) 2-Chloronaphthalene	9.186	162	1814998	49.433	ug/ml	96
47) 2-Nitroaniline	9.298	138	516831	46.219	ug/ml	89
48) 1,4-Dinitrobenzene	9.433	168	255453	47.634	ug/ml	77
49) 1,3-Dinitrobenzene	9.510	168	312993	59.575	ug/ml#	1
50) Dimethyl phthalate	9.510	163	2147747	52.966	ug/ml#	98
51) Acenaphthylene	9.592	152	2805280	50.791	ug/ml	97
52) 2,6-Dinitrotoluene	9.551	165	436608	49.584	ug/ml#	81
53) 1,2-Dinitrobenzene	9.598	168	197825	52.511	ug/ml#	1
63) 3-Nitroaniline	9.710	138	471068	51.669	ug/ml	97
64) Acenaphthene	9.769	154	1695793	49.930	ug/ml	92
65) 2,4-Dinitrophenol	9.810	184	269058	55.401	ug/ml#	87
66) Dibenzofuran	9.939	168	2683577	48.125	ug/ml	95
67) 2,4-Dinitrotoluene	9.945	165	656313	53.666	ug/ml	92
68) 4-Nitrophenol	9.898	65	390800	50.844	ug/ml#	88
69) 2,3,5,6-Tetrachlorophenol	10.027	232	577911	60.589	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 2,3,4,6-Tetrachlorophenol	10.069	232	546634	56.529	ug/ml	97
71) Diethyl phthalate	10.204	149	2108194	53.768	ug/ml	96
72) Fluorene	10.269	166	2115991	50.482	ug/ml	94
73) 4-Chlorophenyl phenyl ...	10.286	204	1044988	48.404	ug/ml	90
74) 4-Nitroaniline	10.316	138	461065	50.193	ug/ml#	88
75) 4,6-Dinitro-o-cresol	10.339	198	365550	56.724	ug/ml#	63
76) NDPA/DPA	10.410	169	1833086	54.507	ug/ml	94
77) Azobenzene	10.439	77	1989446	50.335	ug/ml	95
79) 4-Bromophenyl phenyl e...	10.763	248	581049	51.273	ug/ml	90
80) Hexachlorobenzene	10.816	284	638949	51.087	ug/ml#	87
81) Pentachlorophenol	11.010	266	461808	58.459	ug/ml	98
88) Phenanthrene	11.204	178	3149864	46.986	ug/ml	97
89) Anthracene	11.251	178	3281818	51.815	ug/ml	97
90) Carbazole	11.421	167	3013630	52.456	ug/ml	96
91) Di-n-butylphthalate	11.804	149	3786524	61.939	ug/ml	98
92) Fluoranthene	12.363	202	3725734	51.666	ug/ml#	92
93) Benzidine	12.515	184	2523163	64.802	ug/ml#	95
94) Pyrene	12.586	202	3910527	50.113	ug/ml	97
96) Butyl benzyl phthalate	13.304	149	1728011	50.798	ug/ml	92
104) Benzo(a)anthracene	13.839	228	3679599	48.093	ug/ml	97
105) 3,3'-Dichlorobenzidine	13.833	252	1382777	59.932	ug/ml#	97
106) Chrysene	13.880	228	3388097	43.998	ug/ml	96
107) Bis(2-ethylhexyl)phtha...	13.945	149	2632420	48.002	ug/ml#	98
108) Di-n-octylphthalate	14.633	149	4417645	45.595	ug/ml#	73
109) Benzo(b)fluoranthene	14.962	252	3618166	54.564	ug/ml#	94
110) Benzo(k)fluoranthene	14.992	252	3209700	46.807	ug/ml#	93
111) Benzo(a)pyrene	15.280	252	3161941	53.187	ug/ml#	93
113) Indeno(1,2,3-cd)pyrene	16.351	276	3147861M6	62.085	ug/mL	
114) Dibenzo(a,h)anthracene	16.380	278	2930895	55.128	ug/ml#	92
115) Benzo(ghi)perylene	16.627	276	2517993	47.199	ug/ml#	89

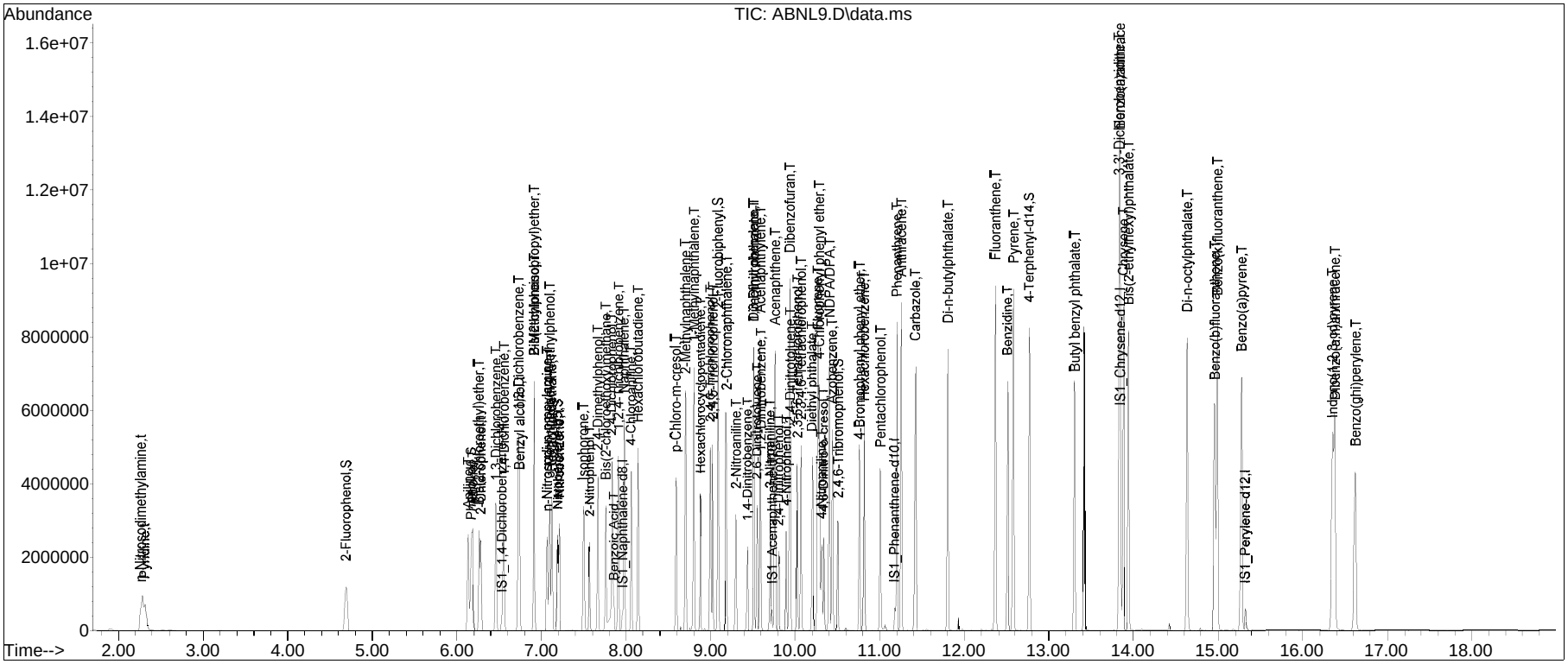
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

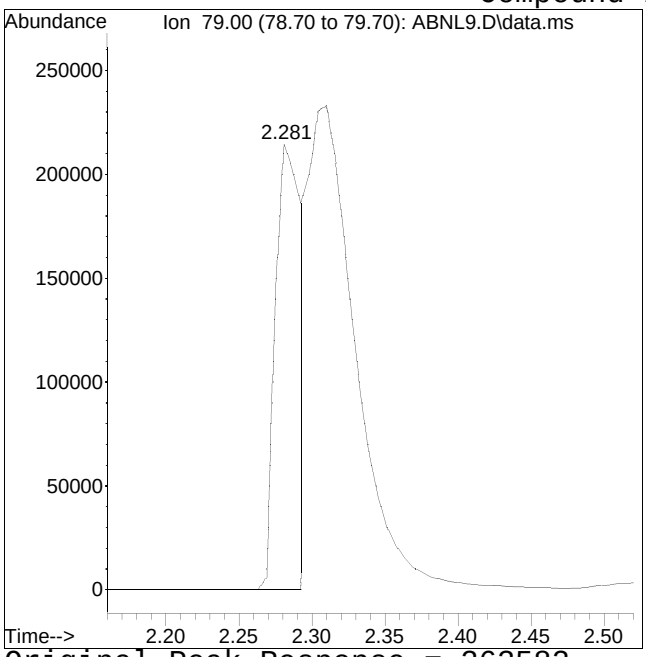
Sub List : ABNical - ABN ical sublistal\AP9L6.D•

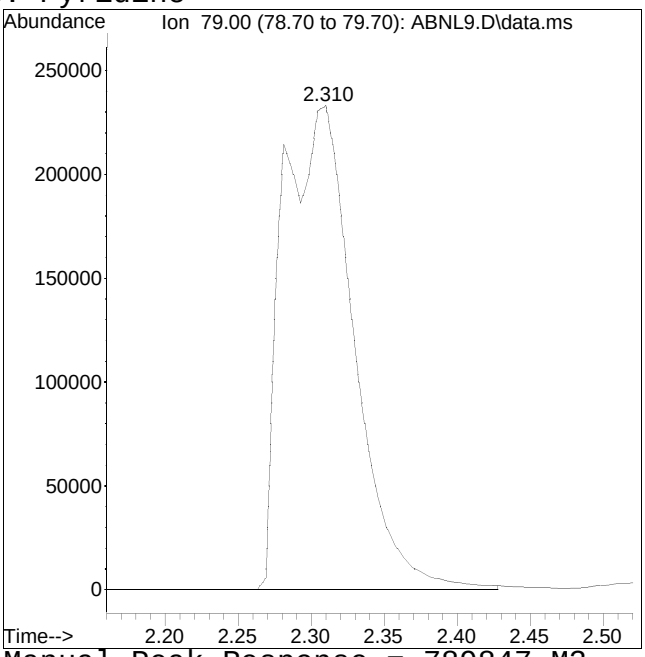


Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:34 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/3/2024 10:22 am

Compound #3: Pyridine



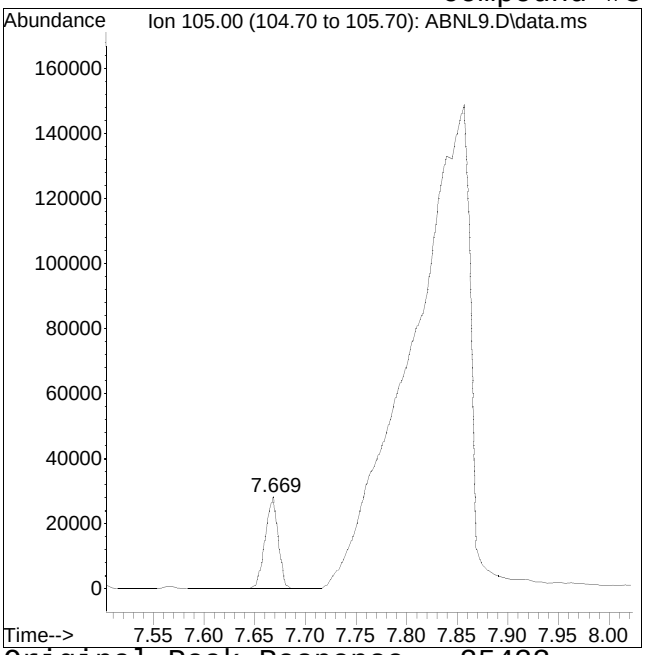


Original Peak Response = 263582 Manual Peak Response = 789847 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

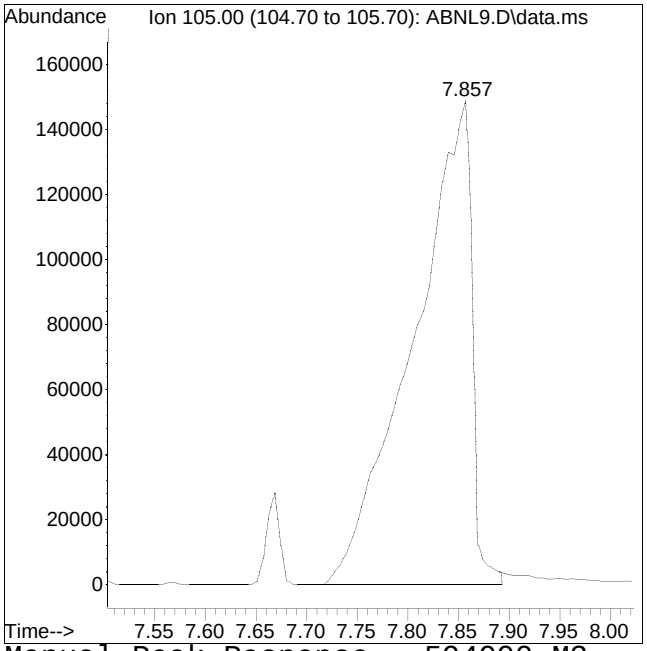
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:34 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/3/2024 10:22 am

Compound #36: Benzoic Acid



Original Peak Response = 25433



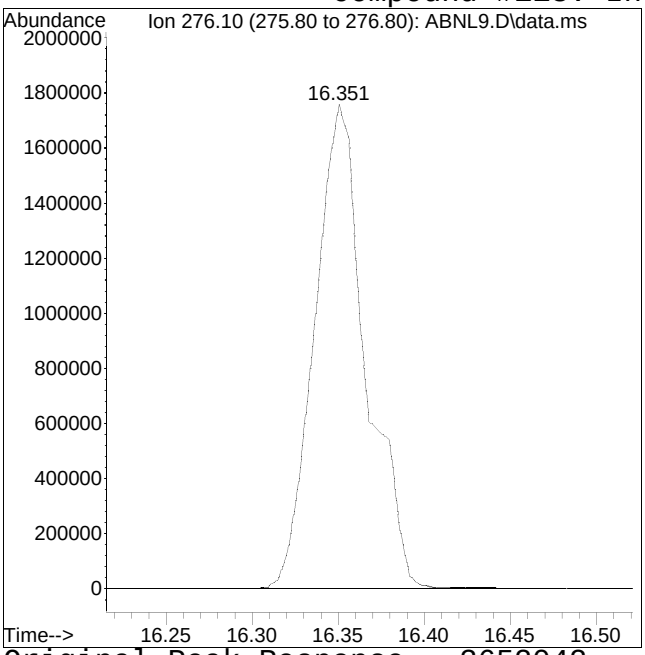
Manual Peak Response = 594990 M3

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

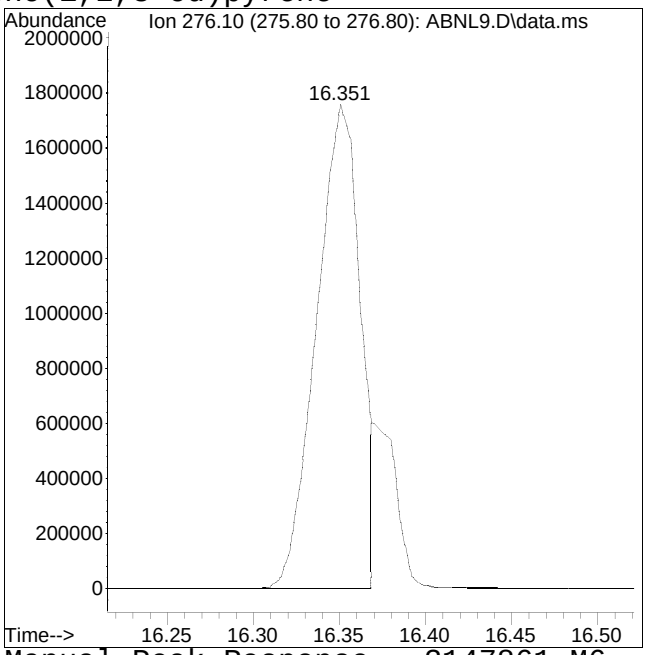
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:34 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 3652042



Manual Peak Response = 3147861 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	51050	4.000	ug/ml	# 0.00
Standard Area 1 = 52051			Recovery = 98.08%			
34) IS1_Naphthalene-d8	7.957	136	194324	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 102.09%			
62) IS1_Acenaphthene-d10	9.728	164	124132	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 100.13%			
87) IS1_Phenanthrene-d10	11.175	188	241731	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 95.83%			
103) IS1_Chrysene-d12	13.839	240	224950	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 96.16%			
112) IS1_Perylene-d12	15.321	264	225904	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 93.71%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.681	112	352552	23.556	ug/ml	-0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 1177.80%#			
7) Phenol-d6	6.163	99	434922	22.917	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1145.85%#			
19) Nitrobenzene-d5	7.187	82	410309	23.569	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2356.90%#			
45) 2-Fluorobiphenyl	9.081	172	1039673	23.249	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2324.90%#			
78) 2,4,6-Tribromophenol	10.504	330	143558	30.949	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1547.45%#			
95) 4-Terphenyl-d14	12.769	244	1351933	25.404	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2540.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.252	74	231824	22.034	ug/ml#	66
3) Pyridine	2.281	79	385544	25.211	ug/ml#	61
5) Aniline	6.128	93	563724	25.000	ug/ml	97
6) 2-Chlorophenol	6.275	128	390705	23.770	ug/ml	94
8) Phenol	6.175	94	468001	22.620	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	373487	21.751	ug/ml#	84
10) 1,3-Dichlorobenzene	6.457	146	468066	22.974	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	468617	22.426	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	461305	23.165	ug/ml	98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	340809	25.054	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	528944	22.815	ug/ml#	46
15) 2-Methylphenol	6.904	108	349944	24.161	ug/ml	98
16) Hexachloroethane	7.122	117	176749	23.754	ug/ml#	64
17) n-Nitrosodi-n-propylamine	7.057	70	294321	25.189	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.092	108	370465	23.638	ug/ml	98
20) Nitrobenzene	7.204	77	413557	23.198	ug/ml	99
21) Isophorone	7.487	82	781835	25.448	ug/ml	98
22) 2-Nitrophenol	7.563	139	197511	26.973	ug/ml	90
23) 2,4-Dimethylphenol	7.663	107	365732	29.952	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.757	93	493552	23.811	ug/ml	98
25) 2,4-Dichlorophenol	7.828	162	380051	26.587	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.910	180	428363	22.967	ug/ml	98
35) Naphthalene	7.981	128	1170952	21.478	ug/ml	99
36) Benzoic Acid	7.816	105	277825	22.504	ug/ml	95
37) 4-Chloroaniline	8.057	65	156133	23.384	ug/ml	87
38) Hexachlorobutadiene	8.145	225	251541	22.748	ug/ml	99
39) p-Chloro-m-cresol	8.586	107	358862	25.938	ug/ml	99
40) 2-Methylnaphthalene	8.698	142	828408	22.873	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	281712	22.747	ug/ml	98
42) Hexachlorocyclopentadiene	8.875	237	280242	34.922	ug/ml	99
43) 2,4,6-Trichlorophenol	8.998	196	312004	28.504	ug/ml	99
44) 2,4,5-Trichlorophenol	9.028	196	337250	28.403	ug/ml	97
46) 2-Chloronaphthalene	9.181	162	862228	23.687	ug/ml	95
47) 2-Nitroaniline	9.292	138	243518	22.111	ug/ml	89
48) 1,4-Dinitrobenzene	9.428	168	117852	22.344	ug/ml	79
49) 1,3-Dinitrobenzene	9.504	168	145584	27.950	ug/ml#	1
50) Dimethyl phthalate	9.504	163	1029527	25.609	ug/ml#	98
51) Acenaphthylene	9.586	152	1356661	24.776	ug/ml	98
52) 2,6-Dinitrotoluene	9.545	165	211629	24.307	ug/ml#	81
53) 1,2-Dinitrobenzene	9.586	168	95068	25.522	ug/ml#	1
63) 3-Nitroaniline	9.698	138	223955	23.843	ug/ml	96
64) Acenaphthene	9.763	154	823091	23.523	ug/ml	93
65) 2,4-Dinitrophenol	9.804	184	120610	24.509	ug/ml#	87
66) Dibenzofuran	9.933	168	1300833	22.643	ug/ml	94
67) 2,4-Dinitrotoluene	9.933	165	305368	24.314	ug/ml	94
68) 4-Nitrophenol	9.886	65	182864	23.092	ug/ml#	87
69) 2,3,5,6-Tetrachlorophenol	10.022	232	274188	27.902	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	261810	26.280	ug/ml		97
71)	Diethyl phthalate	10.198	149	990417	24.518	ug/ml		97
72)	Fluorene	10.269	166	987372	22.865	ug/ml		93
73)	4-Chlorophenyl phenyl ...	10.280	204	489879	22.025	ug/ml		90
74)	4-Nitroaniline	10.298	138	227044	23.991	ug/ml		85
75)	4,6-Dinitro-o-cresol	10.333	198	165521	25.144	ug/ml	#	61
76)	NDPA/DPA	10.404	169	848079	24.477	ug/ml		94
77)	Azobenzene	10.433	77	953697	23.421	ug/ml		96
79)	4-Bromophenyl phenyl e...	10.757	248	274899	23.545	ug/ml	#	89
80)	Hexachlorobenzene	10.810	284	306799	23.810	ug/ml	#	87
81)	Pentachlorophenol	11.004	266	210091	25.965	ug/ml		99
88)	Phenanthrene	11.198	178	1516863	22.574	ug/ml		98
89)	Anthracene	11.245	178	1559998	24.573	ug/ml		98
90)	Carbazole	11.416	167	1455059	25.268	ug/ml		97
91)	Di-n-butylphthalate	11.798	149	1846222	30.130	ug/ml		98
92)	Fluoranthene	12.357	202	1819916	25.179	ug/ml	#	92
93)	Benzidine	12.510	184	1205192	30.881	ug/ml	#	95
94)	Pyrene	12.580	202	1934804	24.736	ug/ml		98
96)	Butyl benzyl phthalate	13.298	149	829584	26.448	ug/ml		93
104)	Benzo(a)anthracene	13.833	228	1884961	24.859	ug/ml		97
105)	3,3'-Dichlorobenzidine	13.827	252	714087	31.228	ug/ml	#	96
106)	Chrysene	13.868	228	1707374	22.372	ug/ml		97
107)	Bis(2-ethylhexyl)phtha...	13.939	149	1290107	27.130	ug/ml	#	97
108)	Di-n-octylphthalate	14.627	149	2208702	27.076	ug/ml	#	73
109)	Benzo(b)fluoranthene	14.951	252	1772450	26.970	ug/ml	#	93
110)	Benzo(k)fluoranthene	14.980	252	1628489	23.962	ug/ml	#	95
111)	Benzo(a)pyrene	15.268	252	1568036	26.614	ug/ml	#	93
113)	Indeno(1,2,3-cd)pyrene	16.351	276	1567480M6	29.474	ug/mL		
114)	Dibenzo(a,h)anthracene	16.368	278	1508686	27.054	ug/ml	#	91
115)	Benzo(ghi)perylene	16.621	276	1341500	23.974	ug/ml	#	89

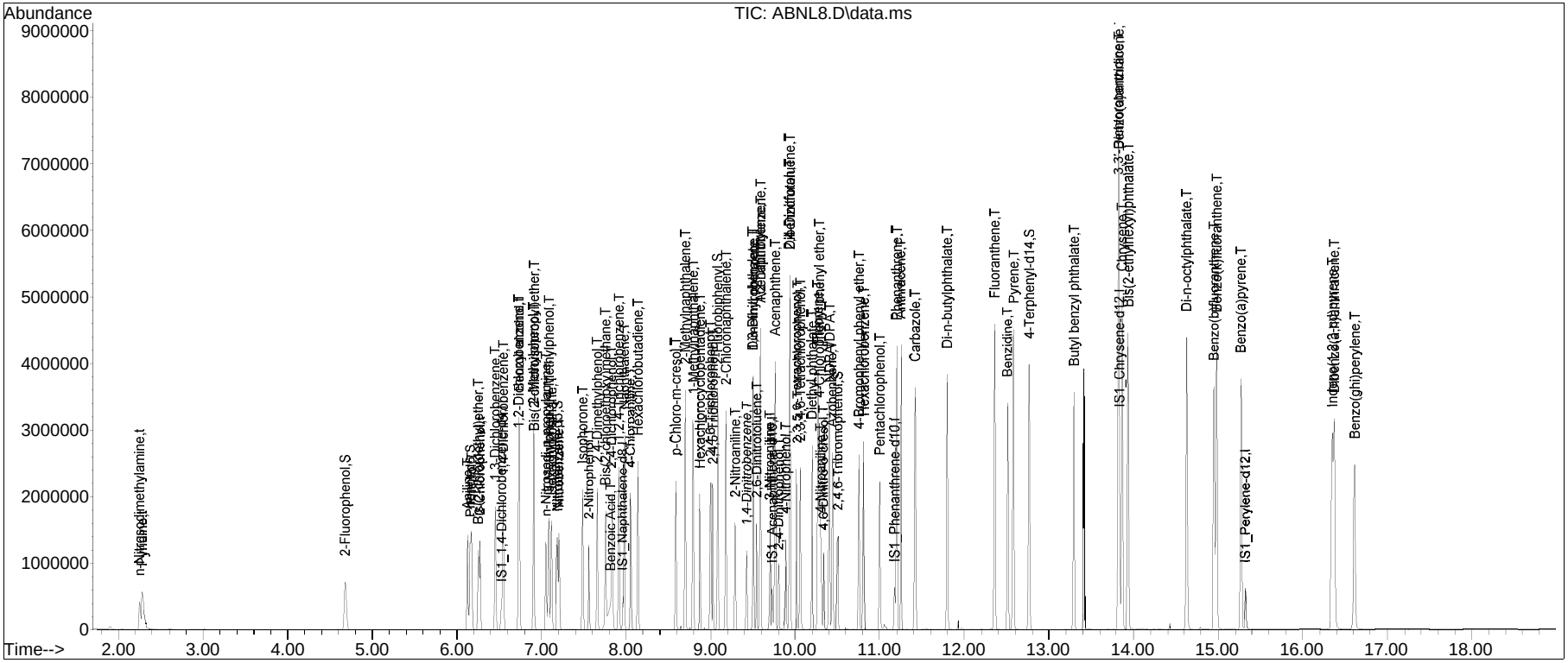
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

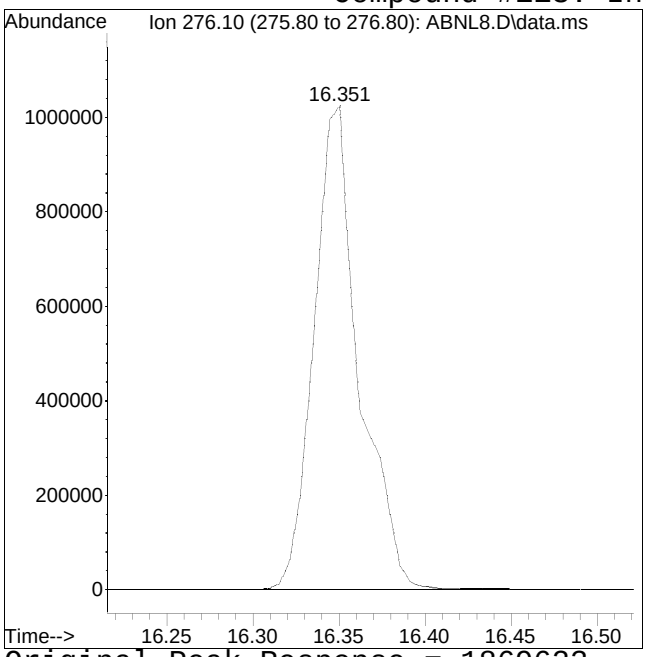
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



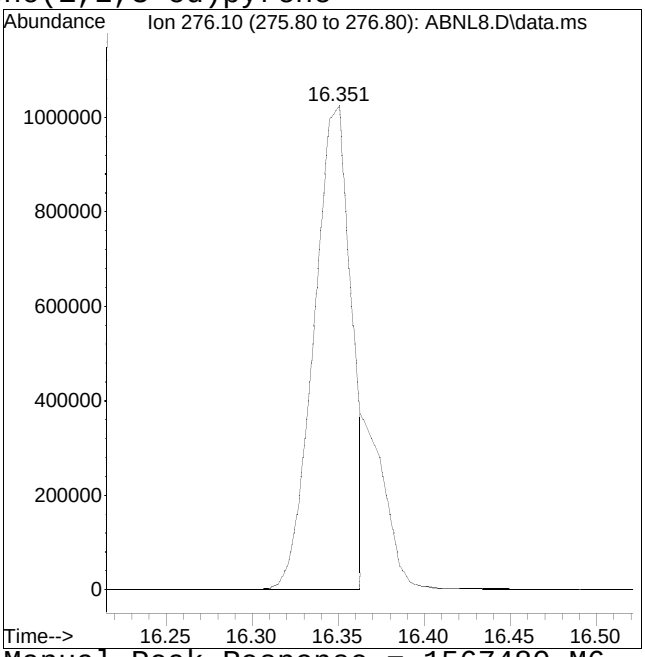
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL8.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:59 pm Instrument : SV107
Sample : IL3,32,,ABNL25 Lot# 10692 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1869623



Manual Peak Response = 1567480 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	50580	4.000	ug/ml	# 0.00
Standard Area 1 = 52051			Recovery = 97.17%			
34) IS1_Naphthalene-d8	7.957	136	189779	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 99.70%			
62) IS1_Acenaphthene-d10	9.728	164	120288	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 97.03%			
87) IS1_Phenanthrene-d10	11.175	188	242511	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 96.14%			
103) IS1_Chrysene-d12	13.839	240	225785	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 96.52%			
112) IS1_Perylene-d12	15.327	264	227351	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 94.31%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.681	112	140251	9.458	ug/ml	-0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 472.90%#			
7) Phenol-d6	6.157	99	171152	9.102	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 455.10%#			
19) Nitrobenzene-d5	7.181	82	158345	9.180	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 918.00%#			
45) 2-Fluorobiphenyl	9.081	172	416312	9.533	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 953.30%#			
78) 2,4,6-Tribromophenol	10.498	330	59817	13.308	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 665.40%#			
95) 4-Terphenyl-d14	12.763	244	536294	10.045	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 1004.50%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.252	74	91909	8.817	ug/ml#	68
3) Pyridine	2.287	79	149892	9.892	ug/ml#	59
5) Aniline	6.128	93	224771	10.061	ug/ml	97
6) 2-Chlorophenol	6.269	128	153985	9.455	ug/ml	94
8) Phenol	6.175	94	185122	9.031	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	150367	8.838	ug/ml#	84
10) 1,3-Dichlorobenzene	6.457	146	187197	9.274	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	187019	9.033	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	181846	9.216	ug/ml	98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	131627	9.766	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.910	45	210116	9.147	ug/ml#	47
15) 2-Methylphenol	6.904	108	136533	9.514	ug/ml	98
16) Hexachloroethane	7.116	117	70827	9.607	ug/ml#	62
17) n-Nitrosodi-n-propylamine	7.057	70	116160	10.034	ug/ml#	92
18) 3-Methylphenol/4-Methy...	7.087	108	145224	9.352	ug/ml	97
20) Nitrobenzene	7.204	77	163172	9.238	ug/ml	98
21) Isophorone	7.481	82	312334	10.261	ug/ml	96
22) 2-Nitrophenol	7.563	139	73882	10.183	ug/ml	91
23) 2,4-Dimethylphenol	7.657	107	142398	11.770	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	196961	9.591	ug/ml	100
25) 2,4-Dichlorophenol	7.828	162	149306	10.542	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.910	180	168900	9.140	ug/ml	97
35) Naphthalene	7.975	128	462458	8.686	ug/ml	99
36) Benzoic Acid	7.775	105	97433	8.547	ug/ml	94
37) 4-Chloroaniline	8.057	65	61841	9.484	ug/ml	88
38) Hexachlorobutadiene	8.145	225	102228	9.466	ug/ml	98
39) p-Chloro-m-cresol	8.581	107	141106	10.443	ug/ml	97
40) 2-Methylnaphthalene	8.698	142	332525	9.401	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	113176	9.357	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	106521	13.592	ug/ml	98
43) 2,4,6-Trichlorophenol	8.992	196	125341	11.725	ug/ml	98
44) 2,4,5-Trichlorophenol	9.022	196	129505	11.168	ug/ml	99
46) 2-Chloronaphthalene	9.181	162	342590	9.637	ug/ml	95
47) 2-Nitroaniline	9.292	138	93043	8.819	ug/ml	90
48) 1,4-Dinitrobenzene	9.422	168	43565	8.665	ug/ml	77
49) 1,3-Dinitrobenzene	9.498	168	53332	10.484	ug/ml#	1
50) Dimethyl phthalate	9.498	163	403736	10.283	ug/ml#	98
51) Acenaphthylene	9.586	152	537132	10.044	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	81168	9.623	ug/ml#	83
53) 1,2-Dinitrobenzene	9.581	168	36142	10.016	ug/ml#	1
63) 3-Nitroaniline	9.698	138	85128	9.353	ug/ml	99
64) Acenaphthene	9.757	154	318784	9.402	ug/ml	93
65) 2,4-Dinitrophenol	9.798	184	41498	9.163	ug/ml	89
66) Dibenzofuran	9.928	168	526706	9.461	ug/ml	93
67) 2,4-Dinitrotoluene	9.928	165	112821	9.357	ug/ml	94
68) 4-Nitrophenol	9.881	65	71517	9.320	ug/ml#	89
69) 2,3,5,6-Tetrachlorophenol	10.022	232	110202	11.573	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 2,3,4,6-Tetrachlorophenol	10.063	232	105281	10.906	ug/ml	97
71) Diethyl phthalate	10.192	149	399950	10.217	ug/ml	97
72) Fluorene	10.263	166	400866	9.580	ug/ml	92
73) 4-Chlorophenyl phenyl ...	10.281	204	203850	9.458	ug/ml	89
74) 4-Nitroaniline	10.292	138	90166	9.832	ug/ml	84
75) 4,6-Dinitro-o-cresol	10.328	198	61794	9.921	ug/ml#	61
76) NDPA/DPA	10.398	169	346541	10.322	ug/ml	96
77) Azobenzene	10.433	77	391138	9.913	ug/ml	96
79) 4-Bromophenyl phenyl e...	10.757	248	113207	10.006	ug/ml#	88
80) Hexachlorobenzene	10.810	284	126399	10.123	ug/ml#	87
81) Pentachlorophenol	11.004	266	82964	10.741	ug/ml	99
88) Phenanthrene	11.192	178	617237	9.156	ug/ml	99
89) Anthracene	11.245	178	640850	10.062	ug/ml	99
90) Carbazole	11.410	167	585984	10.143	ug/ml	98
91) Di-n-butylphthalate	11.798	149	738655	12.016	ug/ml	99
92) Fluoranthene	12.357	202	737284	10.168	ug/ml#	92
93) Benzidine	12.510	184	483670	12.353	ug/ml#	95
94) Pyrene	12.574	202	780477	9.946	ug/ml	99
96) Butyl benzyl phthalate	13.298	149	315052	10.773	ug/ml	92
104) Benzo(a)anthracene	13.827	228	782320	10.279	ug/ml	98
105) 3,3'-Dichlorobenzidine	13.827	252	281272	12.255	ug/ml#	97
106) Chrysene	13.868	228	707807	9.240	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	13.945	149	509174	11.959	ug/ml#	95
108) Di-n-octylphthalate	14.633	149	832000	11.991	ug/ml#	74
109) Benzo(b)fluoranthene	14.957	252	709383	10.754	ug/ml#	94
110) Benzo(k)fluoranthene	14.980	252	689771	10.112	ug/ml#	93
111) Benzo(a)pyrene	15.274	252	632662	10.698	ug/ml#	93
113) Indeno(1,2,3-cd)pyrene	16.345	276	632674M6	11.821	ug/mL	
114) Dibenzo(a,h)anthracene	16.374	278	627698	11.184	ug/ml#	91
115) Benzo(ghi)perylene	16.615	276	579928	10.298	ug/ml#	88

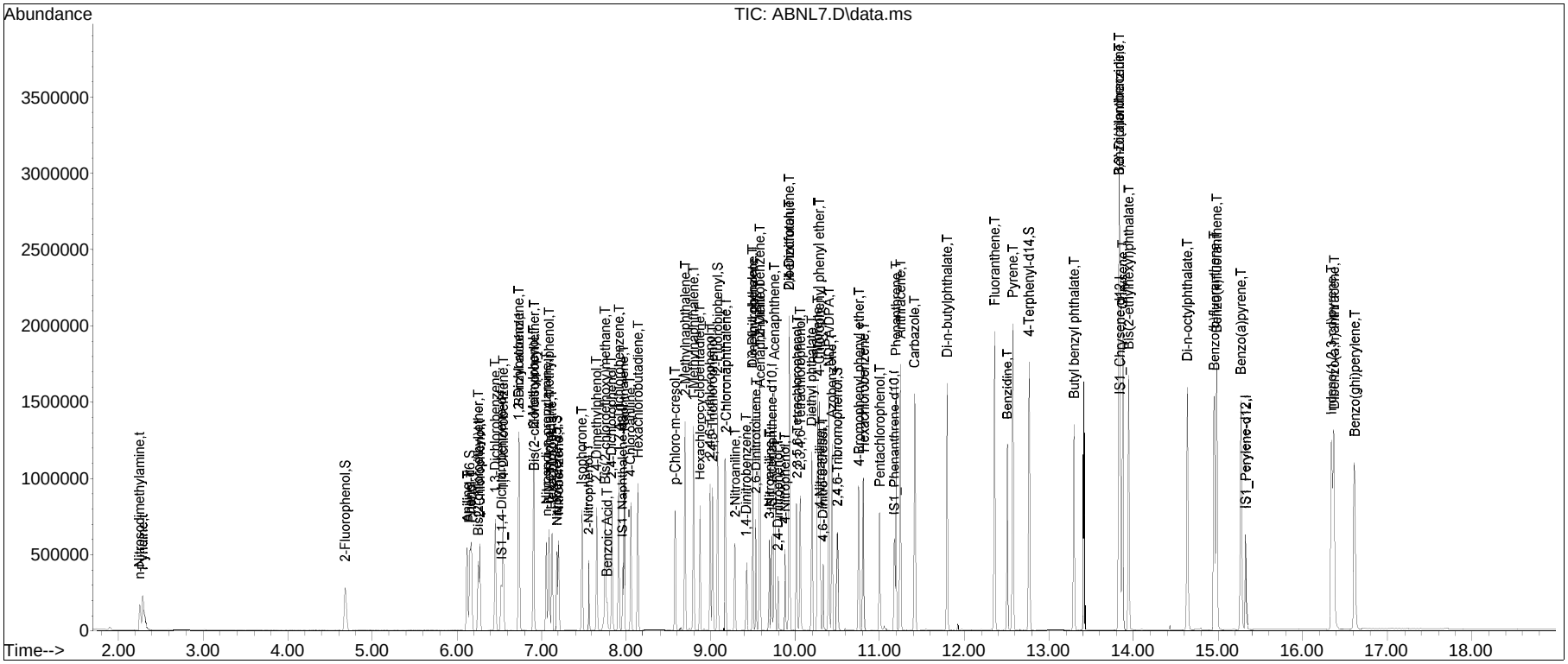
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

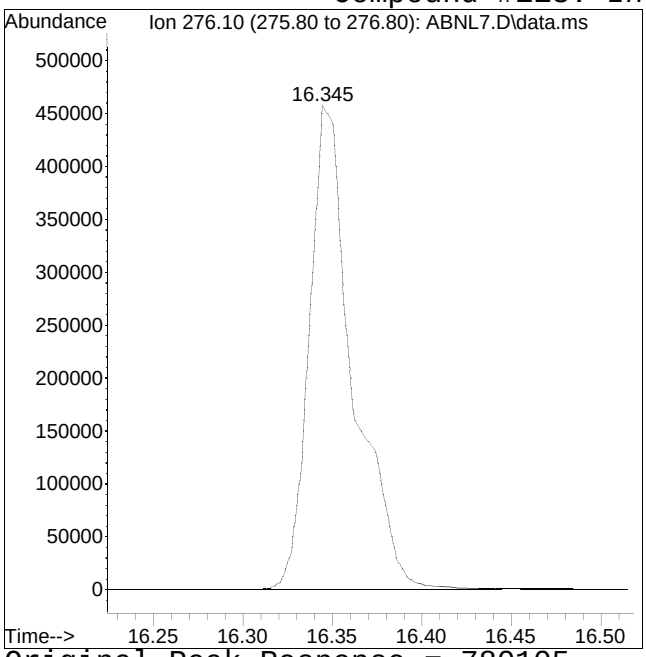
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



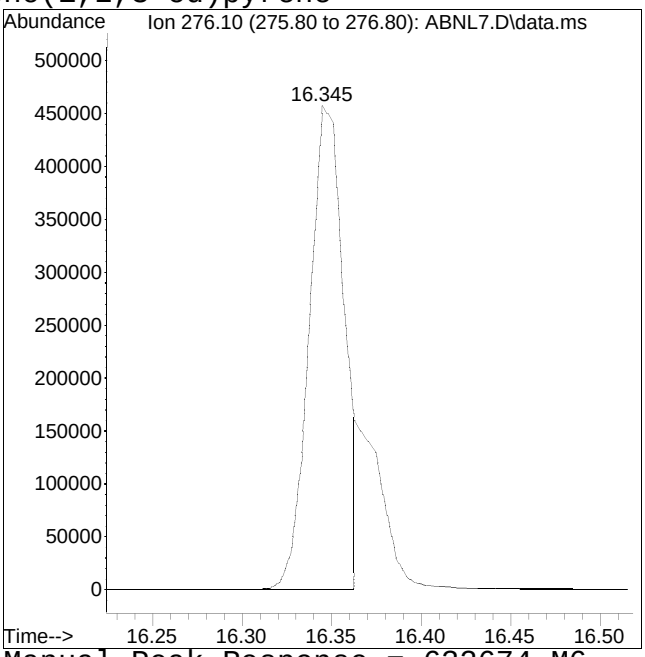
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL7.D Operator : SV107:jg
Date Inj'd : 6/2/2024 8:24 pm Instrument : SV107
Sample : IL4,32,,ABNL10 Lot# 10693 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 780105



Manual Peak Response = 632674 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	52051	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 100.00%			
34) IS1_Naphthalene-d8	7.957	136	190351	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 100.00%			
62) IS1_Acenaphthene-d10	9.728	164	123969	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 100.00%			
87) IS1_Phenanthrene-d10	11.169	188	252252	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 100.00%			
103) IS1_Chrysene-d12	13.839	240	233929	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 100.00%			
112) IS1_Perylene-d12	15.321	264	241074	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.693	112	67481	4.422	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 221.10%#			
7) Phenol-d6	6.157	99	82234	4.250	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 212.50%#			
19) Nitrobenzene-d5	7.187	82	75078	4.230	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 423.00%#			
45) 2-Fluorobiphenyl	9.081	172	195530	4.464	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 446.40%#			
78) 2,4,6-Tribromophenol	10.498	330	27324	5.898	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 294.90%#			
95) 4-Terphenyl-d14	12.763	244	252334	4.544	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 454.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.269	74	44897	4.185	ug/ml#	68
3) Pyridine	2.316	79	74928	4.805	ug/ml#	60
5) Aniline	6.128	93	106131	4.616	ug/ml	96
6) 2-Chlorophenol	6.275	128	73258	4.371	ug/ml	95
8) Phenol	6.175	94	88385	4.190	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	71054	4.058	ug/ml#	83
10) 1,3-Dichlorobenzene	6.457	146	88597	4.265	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	90239	4.235	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	86995	4.285	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	61710	4.449	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	97707	4.133	ug/ml#	46
15) 2-Methylphenol	6.904	108	64538	4.370	ug/ml	98
16) Hexachloroethane	7.122	117	33608	4.430	ug/ml#	61
17) n-Nitrosodi-n-propylamine	7.057	70	54342	4.561	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.087	108	70342	4.402	ug/ml	99
20) Nitrobenzene	7.204	77	77212	4.248	ug/ml	97
21) Isophorone	7.481	82	146190	4.667	ug/ml	97
22) 2-Nitrophenol	7.563	139	32431	4.344	ug/ml#	91
23) 2,4-Dimethylphenol	7.657	107	68596	5.510	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.751	93	91731	4.340	ug/ml	99
25) 2,4-Dichlorophenol	7.828	162	71051	4.875	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.910	180	79423	4.177	ug/ml	97
35) Naphthalene	7.975	128	219752	4.115	ug/ml	99
36) Benzoic Acid	7.751	105	39209	3.814	ug/ml	93
37) 4-Chloroaniline	8.057	65	28470	4.353	ug/ml	86
38) Hexachlorobutadiene	8.145	225	46528	4.296	ug/ml	99
39) p-Chloro-m-cresol	8.581	107	65253	4.815	ug/ml	98
40) 2-Methylnaphthalene	8.698	142	155750	4.390	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	52377	4.318	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	46736	5.945	ug/ml	98
43) 2,4,6-Trichlorophenol	8.992	196	57691	5.380	ug/ml	98
44) 2,4,5-Trichlorophenol	9.022	196	60992	5.244	ug/ml	99
46) 2-Chloronaphthalene	9.175	162	160578	4.503	ug/ml	96
47) 2-Nitroaniline	9.286	138	41476	4.073	ug/ml	90
48) 1,4-Dinitrobenzene	9.422	168	18043	3.774	ug/ml	82
49) 1,3-Dinitrobenzene	9.498	168	23649	4.635	ug/ml#	1
50) Dimethyl phthalate	9.492	163	192449	4.887	ug/ml#	98
51) Acenaphthylene	9.581	152	249719	4.656	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	37890	4.546	ug/ml#	81
53) 1,2-Dinitrobenzene	9.581	168	16640	4.669	ug/ml#	1
63) 3-Nitroaniline	9.692	138	39765	4.239	ug/ml	98
64) Acenaphthene	9.757	154	150990	4.321	ug/ml	92
65) 2,4-Dinitrophenol	9.798	184	17570	4.186	ug/ml#	88
66) Dibenzofuran	9.928	168	248513	4.331	ug/ml	92
67) 2,4-Dinitrotoluene	9.928	165	50309	4.128	ug/ml	93
68) 4-Nitrophenol	9.880	65	32068	4.055	ug/ml#	89
69) 2,3,5,6-Tetrachlorophenol	10.016	232	49938	5.089	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 2,3,4,6-Tetrachlorophenol	10.063	232	49836	5.009	ug/ml	99
71) Diethyl phthalate	10.192	149	185259	4.592	ug/ml	97
72) Fluorene	10.263	166	191054	4.430	ug/ml	93
73) 4-Chlorophenyl phenyl ...	10.280	204	95118	4.282	ug/ml	89
74) 4-Nitroaniline	10.286	138	38840	4.109	ug/ml#	87
75) 4,6-Dinitro-o-cresol	10.322	198	24123	3.994	ug/ml#	63
76) NDPA/DPA	10.398	169	163792	4.734	ug/ml	95
77) Azobenzene	10.433	77	185513	4.562	ug/ml	97
79) 4-Bromophenyl phenyl e...	10.751	248	53585	4.596	ug/ml#	87
80) Hexachlorobenzene	10.810	284	60424	4.696	ug/ml#	86
81) Pentachlorophenol	11.004	266	36681	4.762	ug/ml	98
88) Phenanthrene	11.192	178	298395	4.256	ug/ml	99
89) Anthracene	11.245	178	297441	4.490	ug/ml	98
90) Carbazole	11.410	167	277150	4.612	ug/ml	98
91) Di-n-butylphthalate	11.798	149	329073	5.146	ug/ml	99
92) Fluoranthene	12.357	202	344549	4.568	ug/ml#	91
93) Benzidine	12.504	184	212574	5.220	ug/ml#	95
94) Pyrene	12.574	202	366283	4.488	ug/ml	99
96) Butyl benzyl phthalate	13.292	149	133030	4.681	ug/ml	93
104) Benzo(a)anthracene	13.827	228	356055	4.515	ug/ml	99
105) 3,3'-Dichlorobenzidine	13.821	252	126297	5.311	ug/ml#	96
106) Chrysene	13.863	228	340032	4.284	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	13.939	149	216588	5.250	ug/ml#	95
108) Di-n-octylphthalate	14.627	149	335349	5.215	ug/ml#	74
109) Benzo(b)fluoranthene	14.951	252	323786	4.738	ug/ml#	94
110) Benzo(k)fluoranthene	14.974	252	322366	4.561	ug/ml#	93
111) Benzo(a)pyrene	15.268	252	286717	4.680	ug/ml#	93
113) Indeno(1,2,3-cd)pyrene	16.345	276	267407M6	4.712	ug/mL	
114) Dibenzo(a,h)anthracene	16.368	278	289650	4.867	ug/ml#	90
115) Benzo(ghi)perylene	16.615	276	264525	4.430	ug/ml#	88

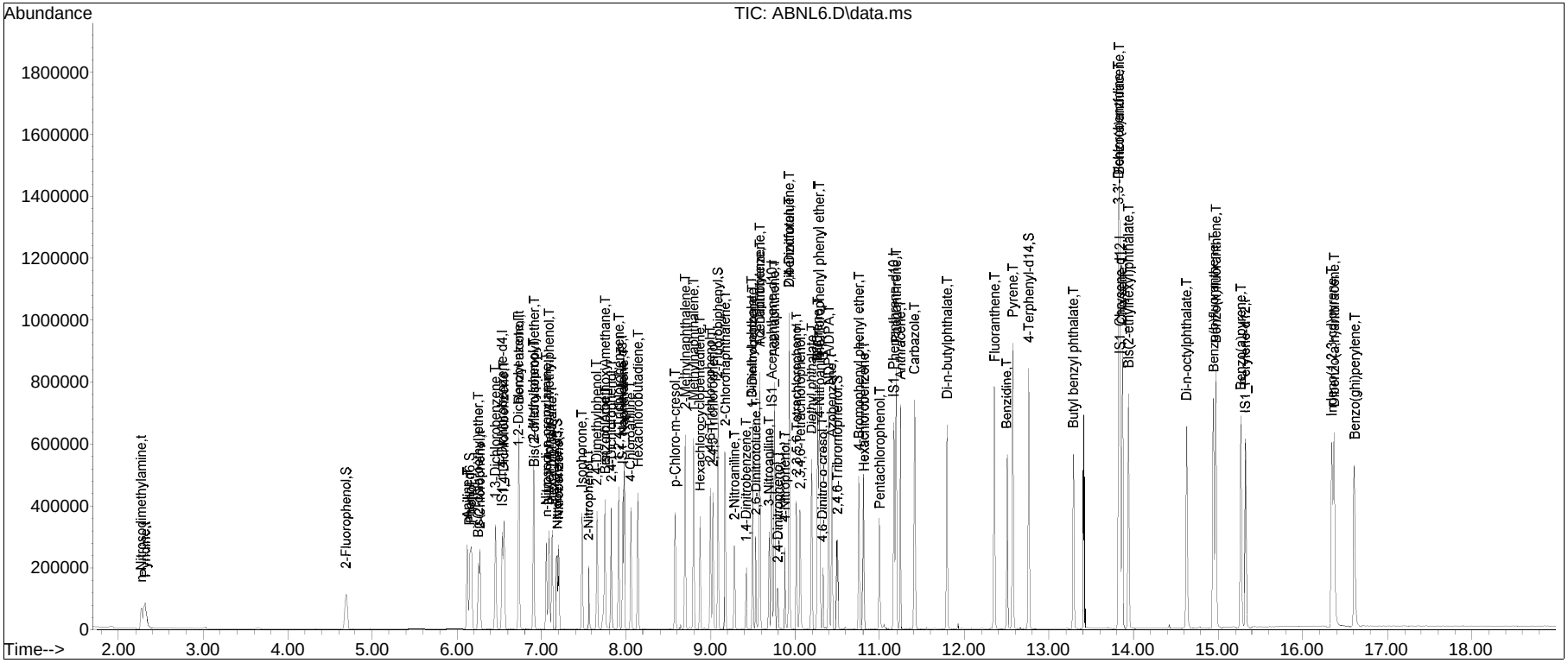
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

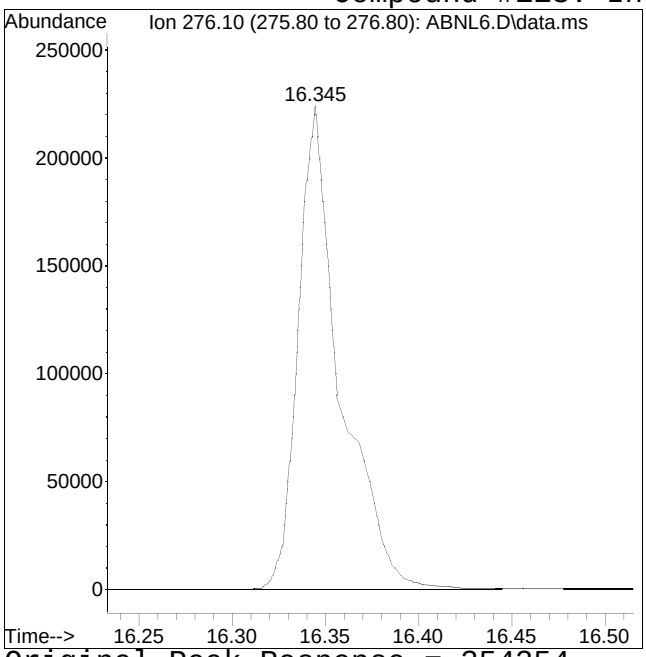
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



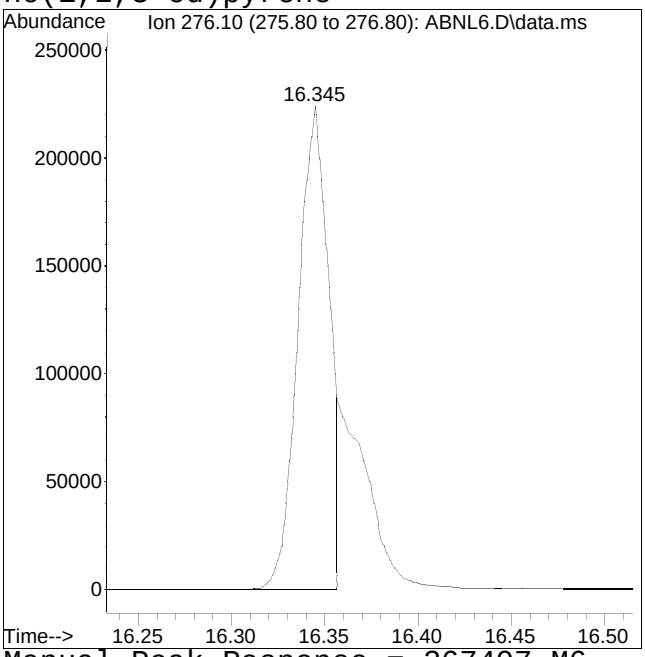
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL6.D Operator : SV107:jg
Date Inj'd : 6/2/2024 8:50 pm Instrument : SV107
Sample : IL5,32,,ABNL5 Lot# 10694 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 354354



Manual Peak Response = 267407 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.534	152	51948	4.000	ug/ml		0.00
Standard Area 1 = 52051			Recovery = 99.80%				
34) IS1_Naphthalene-d8	7.957	136	191507	4.000	ug/ml		0.00
Standard Area 1 = 190351			Recovery = 100.61%				
62) IS1_Acenaphthene-d10	9.728	164	118652	4.000	ug/ml		0.00
Standard Area 1 = 123969			Recovery = 95.71%				
87) IS1_Phenanthrene-d10	11.169	188	243366	4.000	ug/ml		0.00
Standard Area 1 = 252252			Recovery = 96.48%				
103) IS1_Chrysene-d12	13.839	240	223632	4.000	ug/ml	#	0.00
Standard Area 1 = 233929			Recovery = 95.60%				
112) IS1_Perylene-d12	15.327	264	232683	4.000	ug/ml		0.00
Standard Area 1 = 241074			Recovery = 96.52%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.693	112	32992	2.166	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 108.30%				
7) Phenol-d6	6.157	99	40252	2.084	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 104.20%				
19) Nitrobenzene-d5	7.187	82	34681	1.958	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 195.80%#				
45) 2-Fluorobiphenyl	9.081	172	98186	2.228	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 222.80%#				
78) 2,4,6-Tribromophenol	10.498	330	12813	2.890	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 144.50%#				
95) 4-Terphenyl-d14	12.763	244	126539	2.362	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 236.20%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.269	74	21694	2.026	ug/ml	#	69
3) Pyridine	2.316	79	36569	2.350	ug/ml	#	60
5) Aniline	6.128	93	52329	2.281	ug/ml		97
6) 2-Chlorophenol	6.269	128	35639	2.131	ug/ml		94
8) Phenol	6.169	94	43788	2.080	ug/ml		98
9) Bis(2-chloroethyl)ether	6.251	93	35010	2.004	ug/ml	#	85
10) 1,3-Dichlorobenzene	6.457	146	43832	2.114	ug/ml		98
11) 1,4-Dichlorobenzene	6.551	146	44202	2.079	ug/ml		99
12) 1,2-Dichlorobenzene	6.728	146	42719	2.108	ug/ml		98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	29820	2.154	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	47835	2.028	ug/ml#	46
15) 2-Methylphenol	6.904	108	30807	2.090	ug/ml	99
16) Hexachloroethane	7.122	117	15915	2.102	ug/ml#	60
17) n-Nitrosodi-n-propylamine	7.057	70	26538	2.232	ug/ml#	92
18) 3-Methylphenol/4-Methy...	7.087	108	33130	2.077	ug/ml	97
20) Nitrobenzene	7.204	77	36114	1.991	ug/ml	98
21) Isophorone	7.481	82	71350	2.282	ug/ml	97
22) 2-Nitrophenol	7.563	139	15185	2.038	ug/ml	90
23) 2,4-Dimethylphenol	7.657	107	33295	2.680	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	45647	2.164	ug/ml	98
25) 2,4-Dichlorophenol	7.828	162	33869	2.328	ug/ml	93
26) 1,2,4-Trichlorobenzene	7.910	180	39855	2.100	ug/ml	96
35) Naphthalene	7.975	128	112832	2.100	ug/ml	99
36) Benzoic Acid	7.734	105	14867	1.830	ug/ml	93
37) 4-Chloroaniline	8.057	65	14733	2.239	ug/ml	90
38) Hexachlorobutadiene	8.145	225	23200	2.129	ug/ml	99
39) p-Chloro-m-cresol	8.581	107	31428	2.305	ug/ml	97
40) 2-Methylnaphthalene	8.698	142	76915	2.155	ug/ml	96
41) 1-Methylnaphthalene	8.792	115	26576	2.177	ug/ml	95
42) Hexachlorocyclopentadiene	8.875	237	22844	2.889	ug/ml	98
43) 2,4,6-Trichlorophenol	8.992	196	27480	2.547	ug/ml	100
44) 2,4,5-Trichlorophenol	9.022	196	29318	2.505	ug/ml	98
46) 2-Chloronaphthalene	9.175	162	80609	2.247	ug/ml	96
47) 2-Nitroaniline	9.286	138	17978	1.912	ug/ml	95
48) 1,4-Dinitrobenzene	9.422	168	7891	1.829	ug/ml	85
49) 1,3-Dinitrobenzene	9.498	168	10078	1.963	ug/ml#	1
50) Dimethyl phthalate	9.492	163	96348	2.432	ug/ml#	98
51) Acenaphthylene	9.581	152	122095	2.263	ug/ml	99
52) 2,6-Dinitrotoluene	9.534	165	17364	2.140	ug/ml#	83
53) 1,2-Dinitrobenzene	9.581	168	7673	2.212	ug/ml#	1
63) 3-Nitroaniline	9.692	138	18646	2.077	ug/ml	99
64) Acenaphthene	9.757	154	73152	2.187	ug/ml	91
65) 2,4-Dinitrophenol	9.798	184	7098	2.180	ug/ml	88
66) Dibenzofuran	9.928	168	124602	2.269	ug/ml	92
67) 2,4-Dinitrotoluene	9.928	165	22438	1.998	ug/ml	93
68) 4-Nitrophenol	9.881	65	15543	2.053	ug/ml#	91
69) 2,3,5,6-Tetrachlorophenol	10.016	232	24185	2.575	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	23877	2.507	ug/ml	98
71)	Diethyl phthalate	10.192	149	94958	2.459	ug/ml	97
72)	Fluorene	10.263	166	95021	2.302	ug/ml	93
73)	4-Chlorophenyl phenyl ...	10.281	204	48015	2.258	ug/ml	89
74)	4-Nitroaniline	10.286	138	19073	2.108	ug/ml#	85
75)	4,6-Dinitro-o-cresol	10.322	198	10235	1.982	ug/ml#	65
76)	NDPA/DPA	10.398	169	82088	2.479	ug/ml	95
77)	Azobenzene	10.433	77	91105	2.341	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.757	248	26481	2.373	ug/ml#	87
80)	Hexachlorobenzene	10.810	284	30207	2.453	ug/ml#	85
81)	Pentachlorophenol	11.004	266	17540	2.514	ug/ml	99
88)	Phenanthrene	11.192	178	148667	2.198	ug/ml	99
89)	Anthracene	11.245	178	149282	2.336	ug/ml	99
90)	Carbazole	11.410	167	136900	2.361	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	151033	2.448	ug/ml	99
92)	Fluoranthene	12.357	202	171304	2.354	ug/ml#	92
93)	Benzidine	12.504	184	98680	2.512	ug/ml#	94
94)	Pyrene	12.574	202	183111	2.325	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	59665	2.388	ug/ml	94
104)	Benzo(a)anthracene	13.827	228	176990	2.348	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.827	252	58805	2.587	ug/ml#	96
106)	Chrysene	13.863	228	173773	2.290	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	98585	2.626	ug/ml#	96
108)	Di-n-octylphthalate	14.633	149	149078	2.664	ug/ml#	74
109)	Benzo(b)fluoranthene	14.957	252	163103	2.496	ug/ml#	94
110)	Benzo(k)fluoranthene	14.980	252	157224	2.327	ug/ml#	94
111)	Benzo(a)pyrene	15.274	252	141779	2.421	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	16.351	276	139453M6	2.546	ug/mL	
114)	Dibenzo(a,h)anthracene	16.374	278	138436	2.410	ug/ml#	90
115)	Benzo(ghi)perylene	16.621	276	135255	2.347	ug/ml#	87

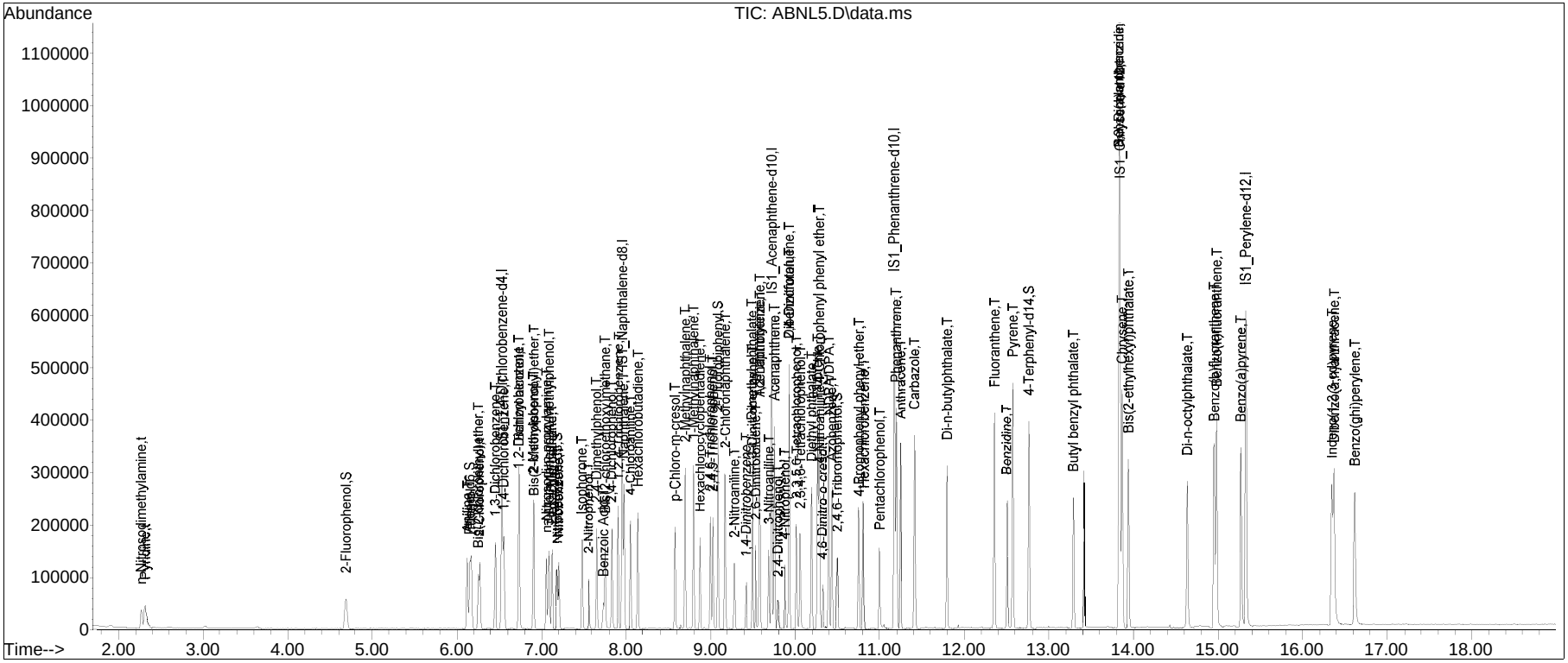
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

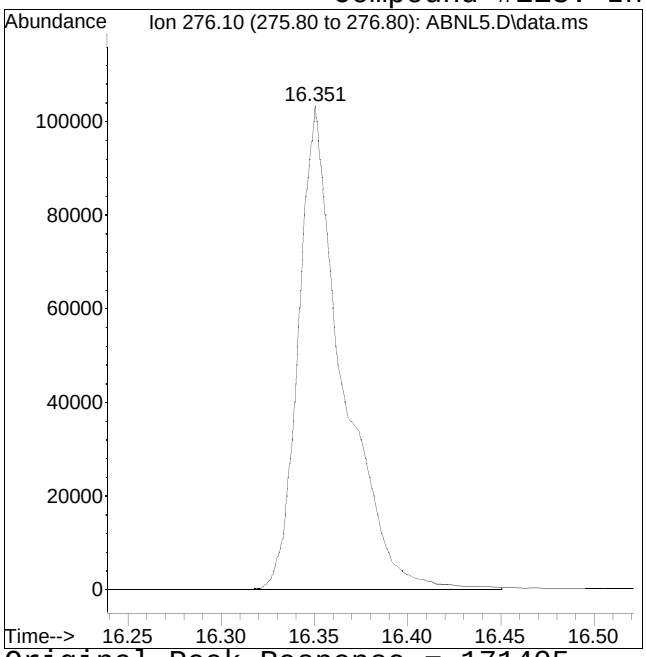
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



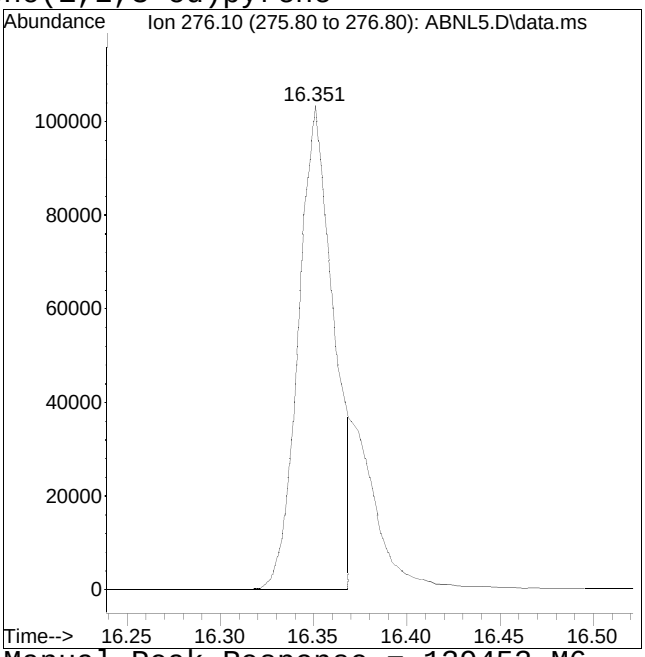
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL5.D Operator : SV107:jg
Date Inj'd : 6/2/2024 9:15 pm Instrument : SV107
Sample : IL6,32,,ABNL2.5 Lot# 10695Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 171405



Manual Peak Response = 139453 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	47882	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 91.99%			
34) IS1_Naphthalene-d8	7.957	136	173049	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 90.91%			
62) IS1_Acenaphthene-d10	9.728	164	107016	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 86.32%			
87) IS1_Phenanthrene-d10	11.175	188	213882	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 84.79%			
103) IS1_Chrysene-d12	13.839	240	198208	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 84.73%			
112) IS1_Perylene-d12	15.327	264	204859	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 84.98%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.693	112	11542	0.822	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 41.10%			
7) Phenol-d6	6.157	99	14374	0.807	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 40.35%			
19) Nitrobenzene-d5	7.187	82	12092	0.741	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 74.10%			
45) 2-Fluorobiphenyl	9.081	172	34242	0.860	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 86.00%			
78) 2,4,6-Tribromophenol	10.498	330	4507	1.127	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 56.35%			
95) 4-Terphenyl-d14	12.763	244	43560	0.925	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 92.50%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.275	74	7670	0.777	ug/ml#	72
3) Pyridine	2.322	79	12809	0.893	ug/ml#	59
5) Aniline	6.128	93	18846	0.891	ug/ml	96
6) 2-Chlorophenol	6.275	128	12212	0.792	ug/ml	94
8) Phenol	6.175	94	15459	0.797	ug/ml	96
9) Bis(2-chloroethyl)ether	6.251	93	12397	0.770	ug/ml#	84
10) 1,3-Dichlorobenzene	6.457	146	15335	0.802	ug/ml	96
11) 1,4-Dichlorobenzene	6.551	146	15625	0.797	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	15217	0.815	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	10673	0.837	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	17153	0.789	ug/ml#	45
15) 2-Methylphenol	6.904	108	10850	0.799	ug/ml	97
16) Hexachloroethane	7.122	117	5695	0.816	ug/ml#	60
17) n-Nitrosodi-n-propylamine	7.057	70	9423	0.860	ug/ml#	91
18) 3-Methylphenol/4-Methy...	7.087	108	11799	0.803	ug/ml	95
20) Nitrobenzene	7.204	77	12536	0.750	ug/ml	95
21) Isophorone	7.487	82	25850	0.897	ug/ml	97
22) 2-Nitrophenol	7.563	139	4723	0.688	ug/ml#	93
23) 2,4-Dimethylphenol	7.657	107	12053	1.052	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.751	93	16927	0.871	ug/ml#	97
25) 2,4-Dichlorophenol	7.828	162	11726	0.875	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.910	180	13712	0.784	ug/ml	97
35) Naphthalene	7.975	128	38557	0.794	ug/ml	99
36) Benzoic Acid	7.722	105	2689	0.869	ug/ml#	84
37) 4-Chloroaniline	8.057	65	4974	0.837	ug/ml	82
38) Hexachlorobutadiene	8.145	225	7822	0.794	ug/ml	99
39) p-Chloro-m-cresol	8.581	107	11029	0.895	ug/ml	99
40) 2-Methylnaphthalene	8.698	142	27453	0.851	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	9382	0.851	ug/ml	96
42) Hexachlorocyclopentadiene	8.875	237	7325	1.025	ug/ml	96
43) 2,4,6-Trichlorophenol	8.992	196	9310	0.955	ug/ml	99
44) 2,4,5-Trichlorophenol	9.022	196	9747	0.922	ug/ml	96
46) 2-Chloronaphthalene	9.175	162	28231	0.871	ug/ml	96
47) 2-Nitroaniline	9.292	138	5856	0.866	ug/ml	93
48) 1,4-Dinitrobenzene	9.422	168	2377	0.833	ug/ml	90
49) 1,3-Dinitrobenzene	9.498	168	3227	0.696	ug/ml#	1
50) Dimethyl phthalate	9.492	163	34231	0.956	ug/ml#	98
51) Acenaphthylene	9.581	152	43434	0.891	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	5358	0.814	ug/ml	86
53) 1,2-Dinitrobenzene	9.581	168	2371	0.843	ug/ml#	1
63) 3-Nitroaniline	9.692	138	5549	0.685	ug/ml#	91
64) Acenaphthene	9.757	154	27580	0.914	ug/ml	93
65) 2,4-Dinitrophenol	9.798	184	1637	1.089	ug/ml	88
66) Dibenzofuran	9.928	168	44001	0.888	ug/ml	94
67) 2,4-Dinitrotoluene	9.928	165	6766	0.761	ug/ml#	86
68) 4-Nitrophenol	9.880	65	4785	0.701	ug/ml#	92
69) 2,3,5,6-Tetrachlorophenol	10.022	232	7620	0.899	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	7797	0.908	ug/ml	99
71)	Diethyl phthalate	10.192	149	32198	0.925	ug/ml	97
72)	Fluorene	10.263	166	33268	0.894	ug/ml	92
73)	4-Chlorophenyl phenyl ...	10.280	204	16775	0.875	ug/ml	89
74)	4-Nitroaniline	10.286	138	5890	0.722	ug/ml#	88
75)	4,6-Dinitro-o-cresol	10.322	198	2568	0.826	ug/ml#	82
76)	NDPA/DPA	10.398	169	28267	0.946	ug/ml	93
77)	Azobenzene	10.433	77	31686	0.903	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.757	248	8962	0.890	ug/ml#	89
80)	Hexachlorobenzene	10.810	284	11017	0.992	ug/ml#	87
81)	Pentachlorophenol	11.004	266	4887	0.963	ug/ml	99
88)	Phenanthrene	11.192	178	52508	0.883	ug/ml	98
89)	Anthracene	11.245	178	50911	0.906	ug/ml	99
90)	Carbazole	11.410	167	47456	0.931	ug/ml	99
91)	Di-n-butylphthalate	11.798	149	49974	0.922	ug/ml	99
92)	Fluoranthene	12.357	202	58826	0.920	ug/ml#	92
93)	Benzidine	12.504	184	30384	0.880	ug/ml#	95
94)	Pyrene	12.574	202	64332	0.930	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	17420	1.040	ug/ml	98
104)	Benzo(a)anthracene	13.827	228	60892	0.911	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.827	252	18732	0.930	ug/ml#	97
106)	Chrysene	13.863	228	62455	0.929	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	27519	0.935	ug/ml#	94
108)	Di-n-octylphthalate	14.627	149	39122	1.025	ug/ml#	78
109)	Benzo(b)fluoranthene	14.951	252	51194	0.884	ug/ml#	94
110)	Benzo(k)fluoranthene	14.974	252	55477	0.926	ug/ml#	93
111)	Benzo(a)pyrene	15.268	252	46234	0.891	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	16.339	276	41077M6	0.852	ug/mL	
114)	Dibenzo(a,h)anthracene	16.368	278	46981	0.929	ug/ml#	91
115)	Benzo(ghi)perylene	16.609	276	46738	0.921	ug/ml#	88

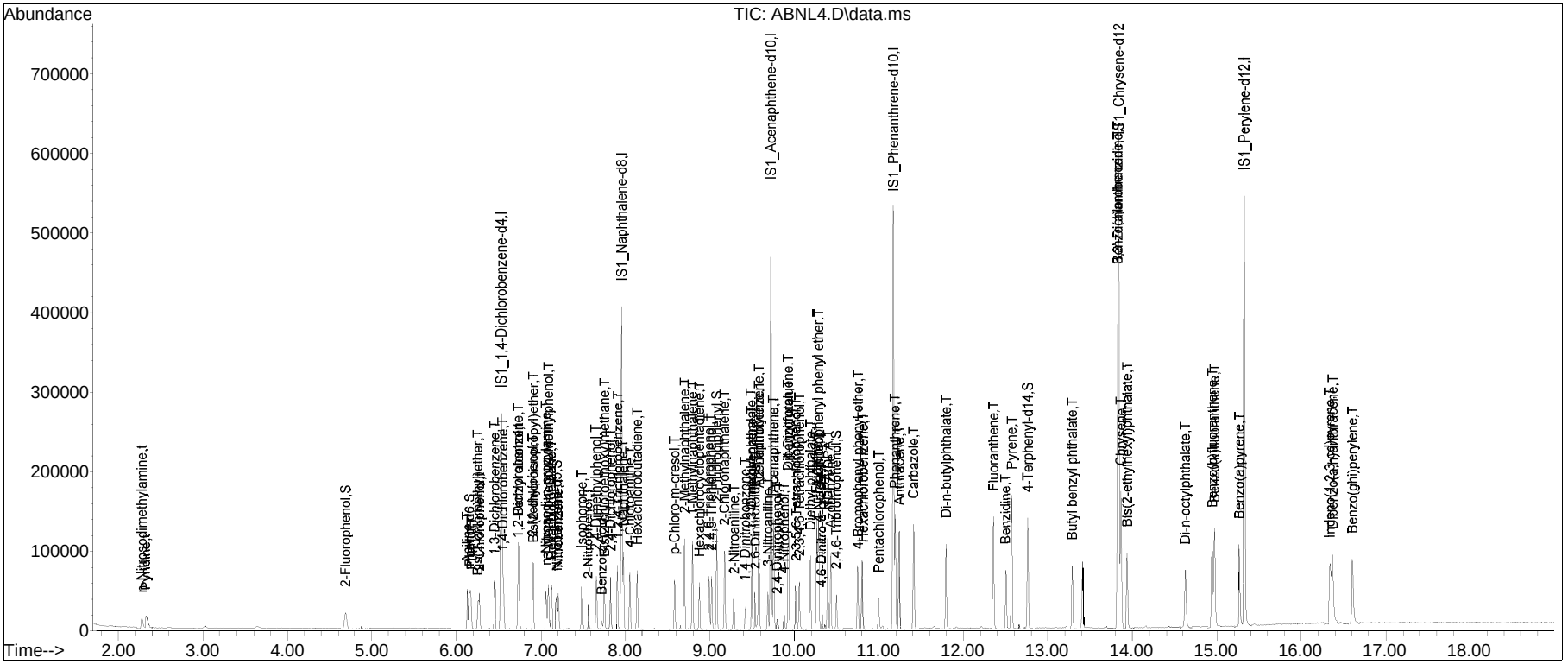
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

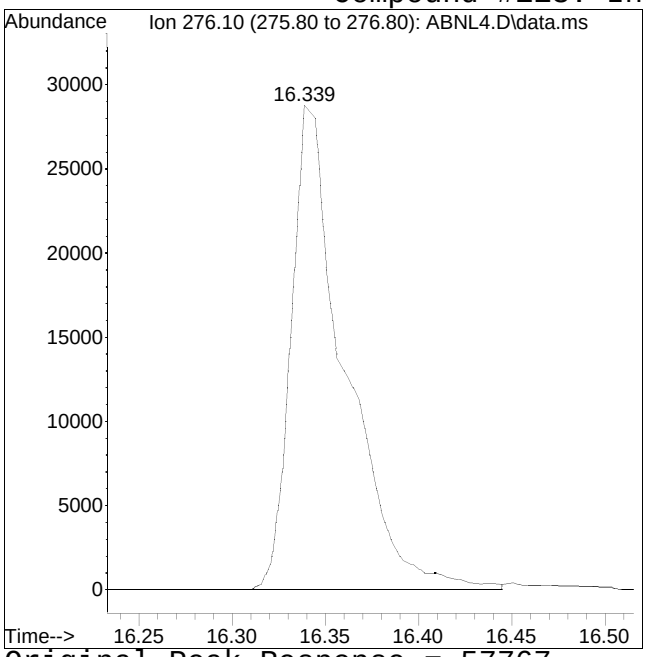
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



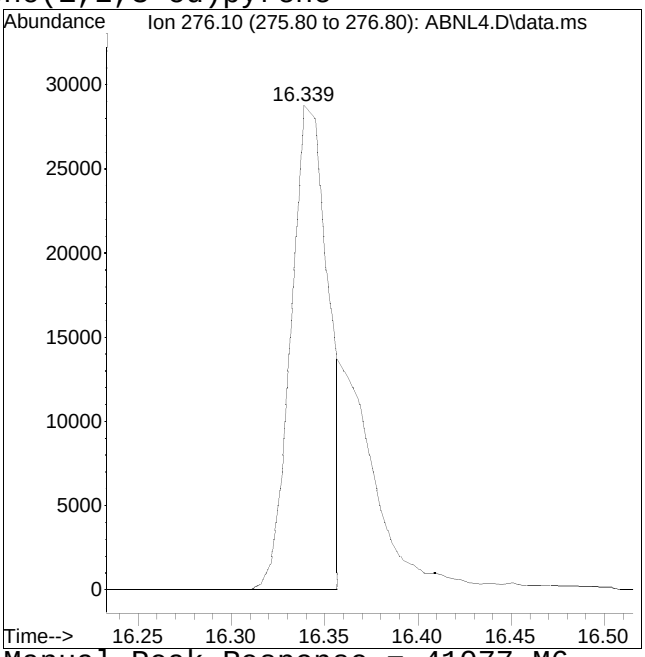
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL4.D Operator : SV107:jg
Date Inj'd : 6/2/2024 9:40 pm Instrument : SV107
Sample : IL7,32,,ABNL1 Lot# 10696 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 57767



Manual Peak Response = 41077 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	45910	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 88.20%			
34) IS1_Naphthalene-d8	7.957	136	170517	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 89.58%			
62) IS1_Acenaphthene-d10	9.727	164	104536	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 84.32%			
87) IS1_Phenanthrene-d10	11.168	188	215844	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 85.57%			
103) IS1_Chrysene-d12	13.839	240	194131	4.000	ug/ml #	0.00
Standard Area 1 = 233929			Recovery = 82.99%			
112) IS1_Perylene-d12	15.327	264	212656	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 88.21%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.692	112	6630	0.493	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.65%			
7) Phenol-d6	6.157	99	8372	0.491	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.55%			
19) Nitrobenzene-d5	7.186	82	6623	0.423	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 42.30%			
45) 2-Fluorobiphenyl	9.080	172	20041	0.511	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 51.10%			
78) 2,4,6-Tribromophenol	10.498	330	2183	0.559	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 27.95%			
95) 4-Terphenyl-d14	12.762	244	24689	0.520	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 52.00%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.275	74	4316	0.456	ug/ml#	76
3) Pyridine	2.328	79	7601	0.553	ug/ml#	57
5) Aniline	6.128	93	10454	0.516	ug/ml	97
6) 2-Chlorophenol	6.275	128	7248	0.490	ug/ml	91
8) Phenol	6.175	94	8946	0.481	ug/ml	98
9) Bis(2-chloroethyl)ether	6.257	93	7474	0.484	ug/ml	87
10) 1,3-Dichlorobenzene	6.457	146	8644	0.472	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	8910	0.474	ug/ml	93
12) 1,2-Dichlorobenzene	6.733	146	8601	0.480	ug/ml	99

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.739	79	5941	0.486	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.910	45	10112	0.485	ug/ml#	48
15) 2-Methylphenol	6.904	108	6154	0.472	ug/ml	97
16) Hexachloroethane	7.122	117	3438	0.514	ug/ml#	71
17) n-Nitrosodi-n-propylamine	7.063	70	5048	0.480	ug/ml#	83
18) 3-Methylphenol/4-Methy...	7.086	108	6220	0.441	ug/ml	96
20) Nitrobenzene	7.204	77	6977	0.435	ug/ml	91
21) Isophorone	7.486	82	13605	0.492	ug/ml	97
22) 2-Nitrophenol	7.563	139	2382	0.362	ug/ml#	92
23) 2,4-Dimethylphenol	7.657	107	6407	0.583	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.751	93	9006	0.483	ug/ml#	98
25) 2,4-Dichlorophenol	7.828	162	6393	0.497	ug/ml#	92
26) 1,2,4-Trichlorobenzene	7.910	180	8107	0.483	ug/ml	95
35) Naphthalene	7.975	128	22638	0.473	ug/ml	98
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	8.057	65	2759	0.471	ug/ml	88
38) Hexachlorobutadiene	8.145	225	4841	0.499	ug/ml	97
39) p-Chloro-m-cresol	8.580	107	5428	0.447	ug/ml	95
40) 2-Methylnaphthalene	8.698	142	15343	0.483	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	5220	0.480	ug/ml	96
42) Hexachlorocyclopentadiene	8.875	237	4257	0.605	ug/ml	99
43) 2,4,6-Trichlorophenol	8.992	196	4869	0.507	ug/ml	98
44) 2,4,5-Trichlorophenol	9.022	196	5185	0.498	ug/ml	97
46) 2-Chloronaphthalene	9.175	162	16161	0.506	ug/ml	96
47) 2-Nitroaniline	9.286	138	3064	0.589	ug/ml	91
48) 1,4-Dinitrobenzene	9.422	168	1225	0.595	ug/ml	83
49) 1,3-Dinitrobenzene	9.498	168	1423	0.311	ug/ml#	1
50) Dimethyl phthalate	9.492	163	18011	0.511	ug/ml	98
51) Acenaphthylene	9.580	152	23230	0.483	ug/ml	98
52) 2,6-Dinitrotoluene	9.533	165	2476	0.449	ug/ml#	86
53) 1,2-Dinitrobenzene	9.580	168	1131	0.477	ug/ml#	1
63) 3-Nitroaniline	9.692	138	2827	0.357	ug/ml#	95
64) Acenaphthene	9.757	154	15043	0.511	ug/ml	92
65) 2,4-Dinitrophenol	9.798	184	528	0.839	ug/ml#	25
66) Dibenzofuran	9.927	168	23909	0.494	ug/ml	92
67) 2,4-Dinitrotoluene	9.927	165	3243	0.445	ug/ml#	84
68) 4-Nitrophenol	9.880	65	2237	0.335	ug/ml#	91
69) 2,3,5,6-Tetrachlorophenol	10.022	232	4086	0.494	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	3872	0.462	ug/ml	99
71)	Diethyl phthalate	10.192	149	17886	0.526	ug/ml	99
72)	Fluorene	10.263	166	18068	0.497	ug/ml	91
73)	4-Chlorophenyl phenyl ...	10.280	204	9280	0.495	ug/ml	90
74)	4-Nitroaniline	10.286	138	2755	0.346	ug/ml#	91
75)	4,6-Dinitro-o-cresol	10.321	198	1106	0.577	ug/ml#	72
76)	NDPA/DPA	10.398	169	15682	0.537	ug/ml	96
77)	Azobenzene	10.427	77	17021	0.496	ug/ml	98
79)	4-Bromophenyl phenyl e...	10.751	248	5266	0.536	ug/ml#	86
80)	Hexachlorobenzene	10.804	284	5909	0.545	ug/ml#	89
81)	Pentachlorophenol	11.004	266	2114	0.577	ug/ml	98
88)	Phenanthrene	11.192	178	30473	0.508	ug/ml	99
89)	Anthracene	11.239	178	29062	0.513	ug/ml	99
90)	Carbazole	11.410	167	25772	0.501	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	25628	0.468	ug/ml	98
92)	Fluoranthene	12.351	202	32526	0.504	ug/ml#	92
93)	Benzidine	12.504	184	15314	0.439	ug/ml#	93
94)	Pyrene	12.574	202	35309	0.506	ug/ml	98
96)	Butyl benzyl phthalate	13.292	149	8253	0.683	ug/ml#	97
104)	Benzo(a)anthracene	13.827	228	33174	0.507	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.821	252	9158	0.464	ug/ml	98
106)	Chrysene	13.862	228	33894	0.515	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	13528	0.542	ug/ml	95
108)	Di-n-octylphthalate	14.627	149	17580	0.643	ug/ml#	79
109)	Benzo(b)fluoranthene	14.951	252	28728	0.507	ug/ml#	95
110)	Benzo(k)fluoranthene	14.980	252	29824	0.509	ug/ml#	93
111)	Benzo(a)pyrene	15.268	252	25584	0.503	ug/ml#	94
113)	Indeno(1,2,3-cd)pyrene	16.345	276	21117M6	0.422	ug/mL	
114)	Dibenzo(a,h)anthracene	16.368	278	25041	0.477	ug/ml#	88
115)	Benzo(ghi)perylene	16.615	276	26511	0.503	ug/ml#	84

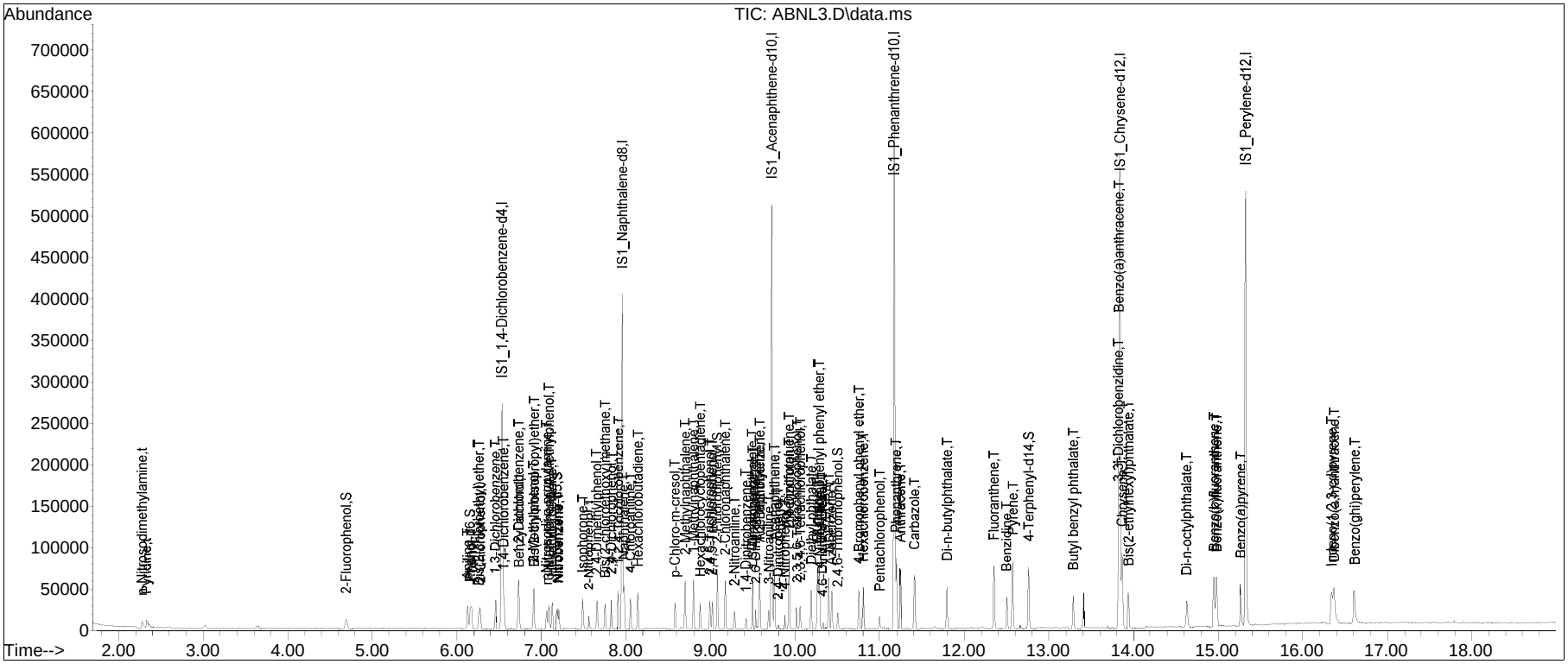
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

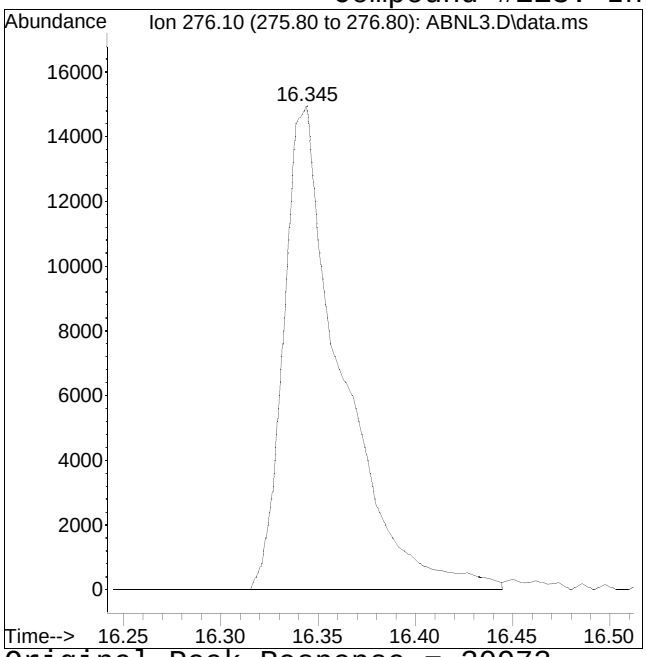
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



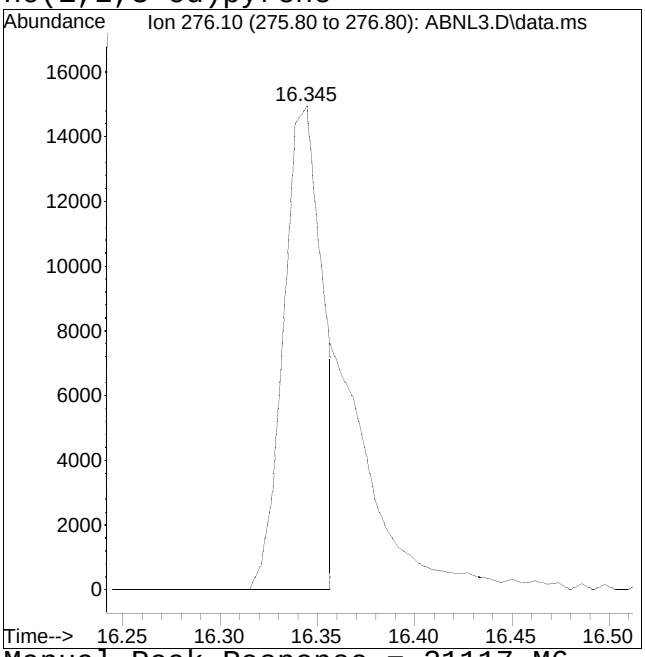
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL3.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:05 pm Instrument : SV107
Sample : IL8,32,,ABNL0.5 Lot# 10697 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 30973



Manual Peak Response = 21117 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.534	152	49068	4.000	ug/ml		0.00
Standard Area 1 = 52051			Recovery = 94.27%				
34) IS1_Naphthalene-d8	7.957	136	178109	4.000	ug/ml		0.00
Standard Area 1 = 190351			Recovery = 93.57%				
62) IS1_Acenaphthene-d10	9.727	164	109346	4.000	ug/ml		0.00
Standard Area 1 = 123969			Recovery = 88.20%				
87) IS1_Phenanthrene-d10	11.169	188	231483	4.000	ug/ml		0.00
Standard Area 1 = 252252			Recovery = 91.77%				
103) IS1_Chrysene-d12	13.833	240	204856	4.000	ug/ml	#	0.00
Standard Area 1 = 233929			Recovery = 87.57%				
112) IS1_Perylene-d12	15.315	264	219164	4.000	ug/ml		0.00
Standard Area 1 = 241074			Recovery = 90.91%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.692	112	2651	0.184	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 9.20%#				
7) Phenol-d6	6.157	99	3276	0.180	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 9.00%#				
19) Nitrobenzene-d5	7.186	82	2866	0.171	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 17.10%#				
45) 2-Fluorobiphenyl	9.080	172	8144	0.199	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 19.90%#				
78) 2,4,6-Tribromophenol	10.498	330	870	0.213	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 10.65%#				
95) 4-Terphenyl-d14	12.763	244	10521	0.206	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 20.60%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.287	74	1812	0.179	ug/ml	#	75
3) Pyridine	2.351	79	3228	0.220	ug/ml	#	54
5) Aniline	6.134	93	4255	0.196	ug/ml		99
6) 2-Chlorophenol	6.275	128	3002	0.190	ug/ml		92
8) Phenol	6.175	94	3744	0.188	ug/ml		96
9) Bis(2-chloroethyl)ether	6.257	93	3295	0.200	ug/ml		89
10) 1,3-Dichlorobenzene	6.463	146	3924	0.200	ug/ml		95
11) 1,4-Dichlorobenzene	6.551	146	4199	0.209	ug/ml	#	92
12) 1,2-Dichlorobenzene	6.734	146	3740	0.195	ug/ml		98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.739	79	2486	0.190	ug/ml	94
14) Bis(2-chloroisopropyl)...	6.910	45	4227	0.190	ug/ml#	46
15) 2-Methylphenol	6.904	108	2507	0.180	ug/ml	95
16) Hexachloroethane	7.122	117	1408	0.197	ug/ml#	58
17) n-Nitrosodi-n-propylamine	7.063	70	2185	0.195	ug/ml#	59
18) 3-Methylphenol/4-Methy...	7.086	108	2751	0.183	ug/ml#	93
20) Nitrobenzene	7.204	77	2838	0.166	ug/ml#	82
21) Isophorone	7.486	82	5475	0.185	ug/ml	94
22) 2-Nitrophenol	7.563	139	1051	0.149	ug/ml#	81
23) 2,4-Dimethylphenol	7.657	107	2594	0.221	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	3781	0.190	ug/ml#	90
25) 2,4-Dichlorophenol	7.828	162	2571	0.187	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.910	180	3505	0.196	ug/ml	94
35) Naphthalene	7.975	128	9960	0.199	ug/ml	99
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	8.057	65	1080	0.176	ug/ml#	82
38) Hexachlorobutadiene	8.145	225	2203	0.217	ug/ml	98
39) p-Chloro-m-cresol	8.580	107	2273	0.179	ug/ml	98
40) 2-Methylnaphthalene	8.698	142	6607	0.199	ug/ml	96
41) 1-Methylnaphthalene	8.792	115	2255	0.199	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	1916	0.260	ug/ml#	90
43) 2,4,6-Trichlorophenol	8.992	196	2019	0.201	ug/ml	99
44) 2,4,5-Trichlorophenol	9.022	196	2139	0.197	ug/ml	95
46) 2-Chloronaphthalene	9.175	162	7062	0.212	ug/ml	93
47) 2-Nitroaniline	9.286	138	1109	0.385	ug/ml	94
48) 1,4-Dinitrobenzene	9.422	168	438	0.423	ug/ml	95
49) 1,3-Dinitrobenzene	9.498	168	558	0.117	ug/ml#	1
50) Dimethyl phthalate	9.492	163	7982	0.217	ug/ml#	93
51) Acenaphthylene	9.580	152	10001	0.199	ug/ml	99
52) 2,6-Dinitrotoluene	9.533	165	962	0.247	ug/ml#	85
53) 1,2-Dinitrobenzene	9.580	168	338M3	0.231	ug/ml	
63) 3-Nitroaniline	9.692	138	965	0.117	ug/ml#	88
64) Acenaphthene	9.757	154	6591	0.214	ug/ml	91
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	9.927	168	10705	0.212	ug/ml	95
67) 2,4-Dinitrotoluene	9.927	165	1137	0.242	ug/ml#	70
68) 4-Nitrophenol	9.880	65	854	0.122	ug/ml	87
69) 2,3,5,6-Tetrachlorophenol	10.022	232	1581	0.183	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	1582	0.180	ug/ml	98
71)	Diethyl phthalate	10.192	149	7230	0.203	ug/ml	96
72)	Fluorene	10.263	166	7825	0.206	ug/ml	92
73)	4-Chlorophenyl phenyl ...	10.280	204	3942	0.201	ug/ml	90
74)	4-Nitroaniline	10.286	138	957	0.115	ug/ml#	86
75)	4,6-Dinitro-o-cresol	10.327	198	265M2	0.425	ug/ml	
76)	NDPA/DPA	10.392	169	6543	0.214	ug/ml	97
77)	Azobenzene	10.427	77	7151	0.199	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.751	248	2311	0.225	ug/ml#	85
80)	Hexachlorobenzene	10.804	284	2664	0.235	ug/ml#	85
81)	Pentachlorophenol	11.004	266	708	0.368	ug/ml	92
88)	Phenanthrene	11.192	178	13197	0.205	ug/ml	97
89)	Anthracene	11.239	178	12757	0.210	ug/ml	99
90)	Carbazole	11.410	167	10959	0.199	ug/ml	99
91)	Di-n-butylphthalate	11.798	149	10896	0.186	ug/ml	99
92)	Fluoranthene	12.351	202	14995	0.217	ug/ml#	90
93)	Benzidine	12.504	184	5328	0.143	ug/ml#	84
94)	Pyrene	12.574	202	15788	0.211	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	3375	0.486	ug/ml	95
104)	Benzo(a)anthracene	13.827	228	14868	0.215	ug/ml	96
105)	3,3'-Dichlorobenzidine	13.821	252	3454	0.166	ug/ml#	96
106)	Chrysene	13.862	228	15148	0.218	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	4794	0.277	ug/ml#	94
108)	Di-n-octylphthalate	14.621	149	6797	0.436	ug/ml#	86
109)	Benzo(b)fluoranthene	14.939	252	12507	0.209	ug/ml#	94
110)	Benzo(k)fluoranthene	14.968	252	12503	0.202	ug/ml#	95
111)	Benzo(a)pyrene	15.262	252	10380	0.193	ug/ml#	92
113)	Indeno(1,2,3-cd)pyrene	16.339	276	8551M6	0.166	ug/mL	
114)	Dibenzo(a,h)anthracene	16.362	278	9182	0.170	ug/ml#	88
115)	Benzo(ghi)perylene	16.603	276	10140	0.187	ug/ml#	86

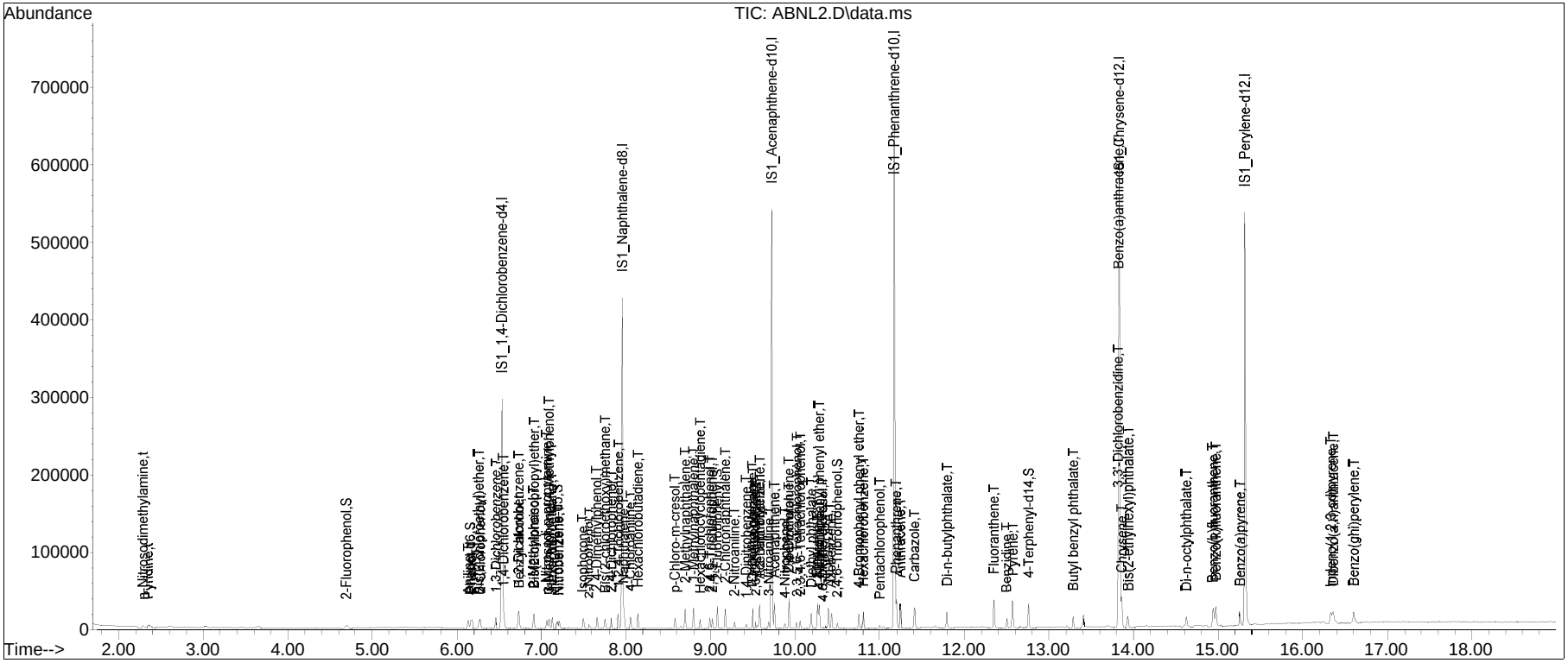
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

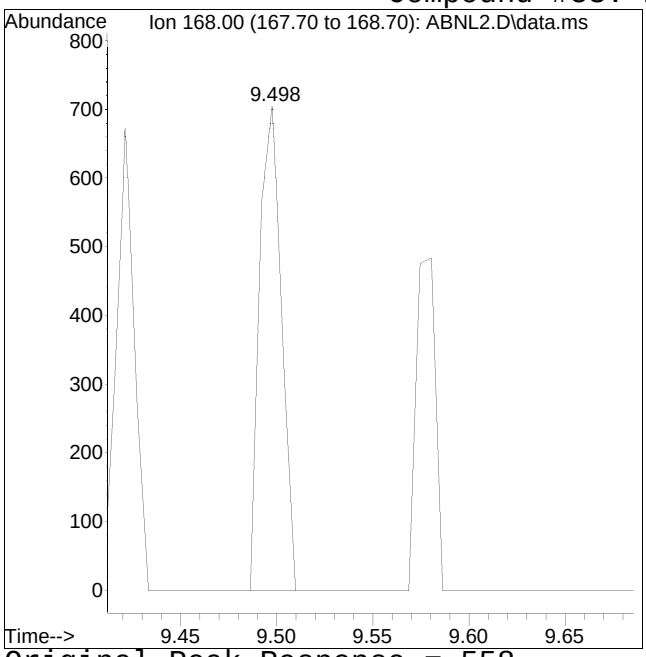
Sub List : ABNical - ABN ical sublistal\AP9L6.D•

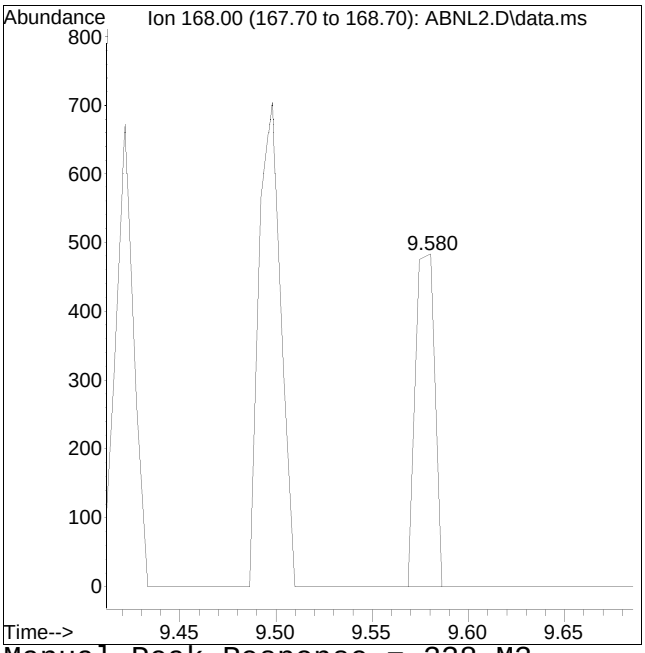


Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL2.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:30 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10698 Quant Date : 6/3/2024 10:22 am

Compound #53: 1,2-Dinitrobenzene





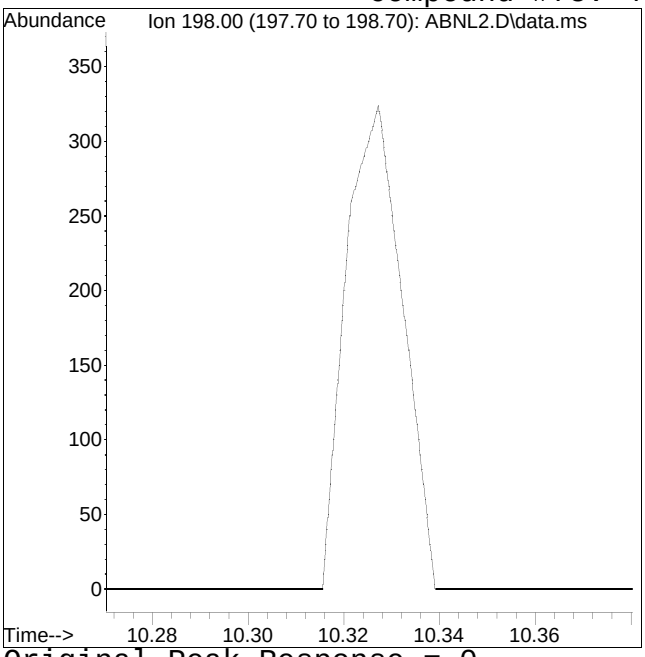
Original Peak Response = 558 Manual Peak Response = 338 M3

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

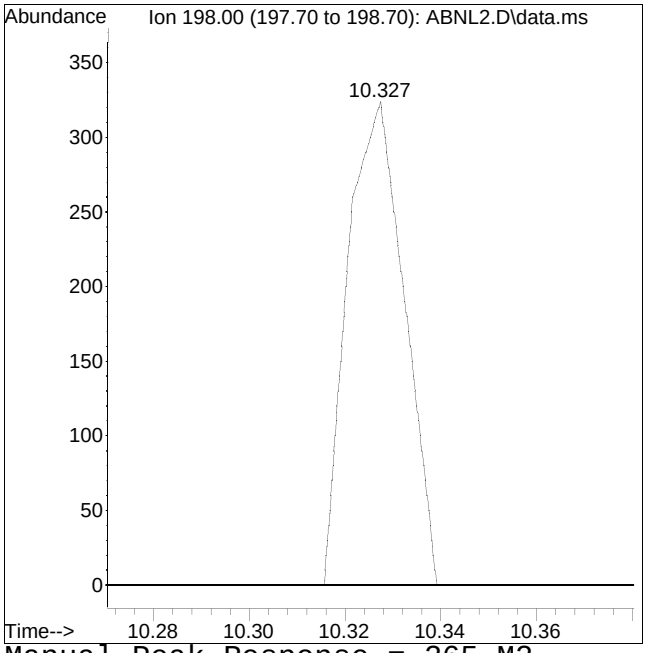
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL2.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:30 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10698 Quant Date : 6/3/2024 10:22 am

Compound #75: 4,6-Dinitro-o-cresol



Original Peak Response = 0



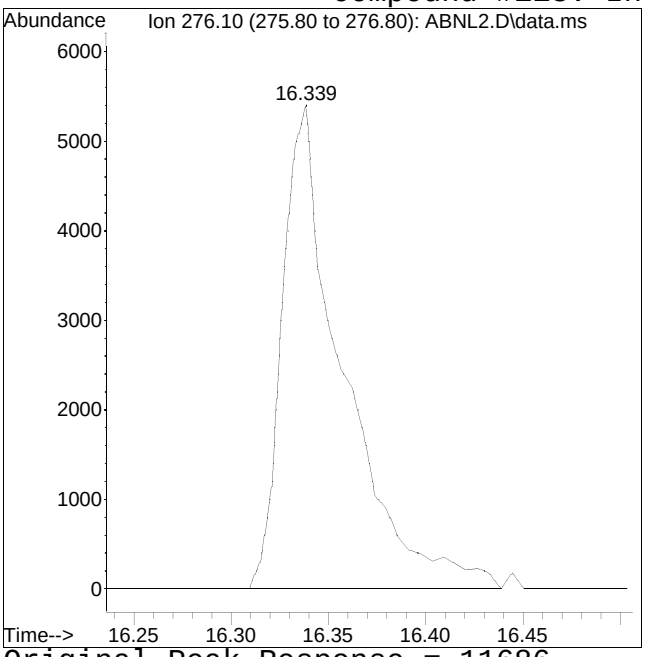
Manual Peak Response = 265 M2

M2 = Peak not found by automatic integration algorithm.

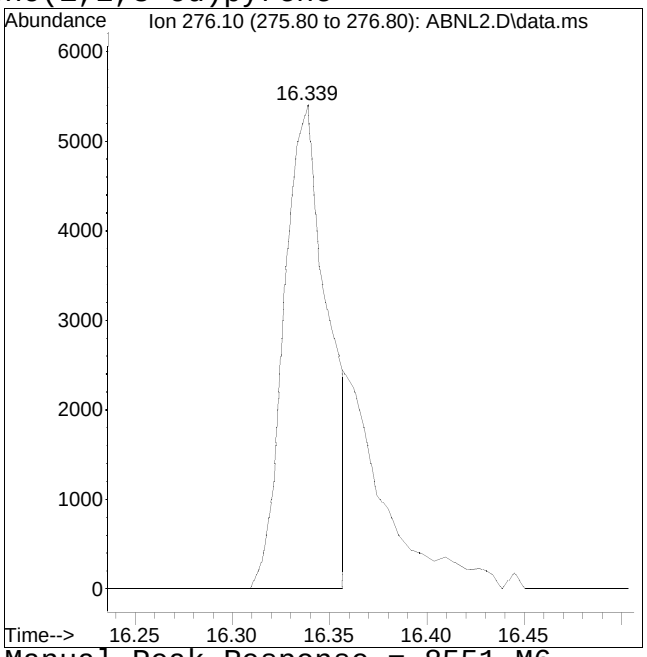
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL2.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:30 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10698 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 11686



Manual Peak Response = 8551 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	50386	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 96.80%			
34) IS1_Naphthalene-d8	7.957	136	184640	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 97.00%			
62) IS1_Acenaphthene-d10	9.728	164	112329	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 90.61%			
87) IS1_Phenanthrene-d10	11.174	188	235335	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 93.29%			
103) IS1_Chrysene-d12	13.833	240	210802	4.000	ug/ml #	0.00
Standard Area 1 = 233929			Recovery = 90.11%			
112) IS1_Perylene-d12	15.315	264	224865	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 93.28%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.693	112	1303	0.088	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.40%#			
7) Phenol-d6	6.157	99	1610	0.086	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.30%#			
19) Nitrobenzene-d5	7.186	82	1368	0.080	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 8.00%#			
45) 2-Fluorobiphenyl	9.081	172	4156	0.098	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 9.80%#			
78) 2,4,6-Tribromophenol	10.498	330	287M2	0.068	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 3.40%#			
95) 4-Terphenyl-d14	12.763	244	5373	0.104	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 10.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.281	74	830	0.080	ug/ml#	68
3) Pyridine	2.357	79	1275	0.084	ug/ml#	49
5) Aniline	6.128	93	2125	0.095	ug/ml	96
6) 2-Chlorophenol	6.275	128	1485	0.092	ug/ml#	72
8) Phenol	6.175	94	1771	0.087	ug/ml	96
9) Bis(2-chloroethyl)ether	6.257	93	1574	0.093	ug/ml#	82
10) 1,3-Dichlorobenzene	6.457	146	1915	0.095	ug/ml	99
11) 1,4-Dichlorobenzene	6.551	146	1913	0.093	ug/ml#	73

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
12) 1,2-Dichlorobenzene	6.728	146	1919	0.098	ug/ml	92
13) Benzyl alcohol	6.739	79	1238	0.092	ug/ml	90
14) Bis(2-chloroisopropyl)...	6.910	45	2141	0.094	ug/ml#	36
15) 2-Methylphenol	6.904	108	1278	0.089	ug/ml#	84
16) Hexachloroethane	7.122	117	711	0.097	ug/ml#	74
17) n-Nitrosodi-n-propylamine	7.063	70	1152	0.100	ug/ml#	59
18) 3-Methylphenol/4-Methy...	7.087	108	1197	0.077	ug/ml#	83
20) Nitrobenzene	7.204	77	1429	0.081	ug/ml#	79
21) Isophorone	7.492	82	2720	0.090	ug/ml#	90
22) 2-Nitrophenol	7.563	139	373M2	0.052	ug/ml	
23) 2,4-Dimethylphenol	7.663	107	1321	0.110	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.751	93	1937	0.095	ug/ml#	89
25) 2,4-Dichlorophenol	7.828	162	1209	0.086	ug/ml#	70
26) 1,2,4-Trichlorobenzene	7.910	180	1745	0.095	ug/ml	95
35) Naphthalene	7.975	128	5001	0.097	ug/ml	99
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	8.057	65	594	0.094	ug/ml	96
38) Hexachlorobutadiene	8.145	225	990	0.094	ug/ml	95
39) p-Chloro-m-cresol	8.586	107	1150	0.087	ug/ml#	84
40) 2-Methylnaphthalene	8.698	142	3208	0.093	ug/ml	94
41) 1-Methylnaphthalene	8.792	115	1117	0.095	ug/ml	96
42) Hexachlorocyclopentadiene	8.875	237	836	0.110	ug/ml#	85
43) 2,4,6-Trichlorophenol	8.998	196	870	0.084	ug/ml#	84
44) 2,4,5-Trichlorophenol	9.028	196	1016	0.090	ug/ml#	73
46) 2-Chloronaphthalene	9.175	162	3292	0.095	ug/ml	97
47) 2-Nitroaniline	9.292	138	531	0.326	ug/ml	95
48) 1,4-Dinitrobenzene	9.422	168	167M2	0.367	ug/ml	
49) 1,3-Dinitrobenzene	9.498	168	263M2	0.053	ug/ml	
50) Dimethyl phthalate	9.492	163	3817	0.100	ug/ml#	77
51) Acenaphthylene	9.580	152	4775	0.092	ug/ml	97
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
53) 1,2-Dinitrobenzene	9.575	168	141M2	0.172	ug/ml	
63) 3-Nitroaniline	9.692	138	431	0.051	ug/ml#	95
64) Acenaphthene	9.757	154	3186	0.101	ug/ml	93
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	9.928	168	5287	0.102	ug/ml	92
67) 2,4-Dinitrotoluene	9.928	165	435	0.178	ug/ml#	50
68) 4-Nitrophenol	9.880	65	315M2	0.044	ug/ml	

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
69)	2,3,5,6-Tetrachlorophenol	10.022	232	621	0.070 ug/ml#	64
70)	2,3,4,6-Tetrachlorophenol	10.063	232	710	0.079 ug/ml#	70
71)	Diethyl phthalate	10.192	149	3751	0.103 ug/ml	95
72)	Fluorene	10.263	166	3853	0.099 ug/ml	93
73)	4-Chlorophenyl phenyl ...	10.280	204	2036	0.101 ug/ml#	85
74)	4-Nitroaniline	10.286	138	419	0.049 ug/ml#	69
75)	4,6-Dinitro-o-cresol	0.000		0	N.D.	
76)	NDPA/DPA	10.398	169	3096	0.099 ug/ml	91
77)	Azobenzene	10.433	77	3541	0.096 ug/ml	99
79)	4-Bromophenyl phenyl e...	10.757	248	1144	0.108 ug/ml#	88
80)	Hexachlorobenzene	10.810	284	1376	0.118 ug/ml#	64
81)	Pentachlorophenol	11.004	266	149M2	0.290 ug/ml	
88)	Phenanthrene	11.192	178	6475	0.099 ug/ml	98
89)	Anthracene	11.245	178	6079	0.098 ug/ml	99
90)	Carbazole	11.410	167	5031	0.090 ug/ml	98
91)	Di-n-butylphthalate	11.798	149	5415	0.091 ug/ml#	92
92)	Fluoranthene	12.357	202	7036	0.100 ug/ml#	93
93)	Benzidine	12.504	184	2270	0.060 ug/ml#	68
94)	Pyrene	12.574	202	7718	0.101 ug/ml	98
96)	Butyl benzyl phthalate	13.292	149	1667	0.424 ug/ml#	93
104)	Benzo(a)anthracene	13.827	228	7685	0.108 ug/ml	98
105)	3,3'-Dichlorobenzidine	13.821	252	1677	0.078 ug/ml#	87
106)	Chrysene	13.863	228	7226	0.101 ug/ml	97
107)	Bis(2-ethylhexyl)phtha...	13.939	149	2517	0.211 ug/ml#	90
108)	Di-n-octylphthalate	14.621	149	3310	0.373 ug/ml#	87
109)	Benzo(b)fluoranthene	14.939	252	5782	0.094 ug/ml#	88
110)	Benzo(k)fluoranthene	14.968	252	5672	0.089 ug/ml#	89
111)	Benzo(a)pyrene	15.262	252	4646	0.084 ug/ml#	92
113)	Indeno(1,2,3-cd)pyrene	16.333	276	3420M6	0.065 ug/mL	
114)	Dibenzo(a,h)anthracene	16.356	278	3966	0.071 ug/ml#	86
115)	Benzo(ghi)perylene	16.598	276	4504	0.081 ug/ml#	88

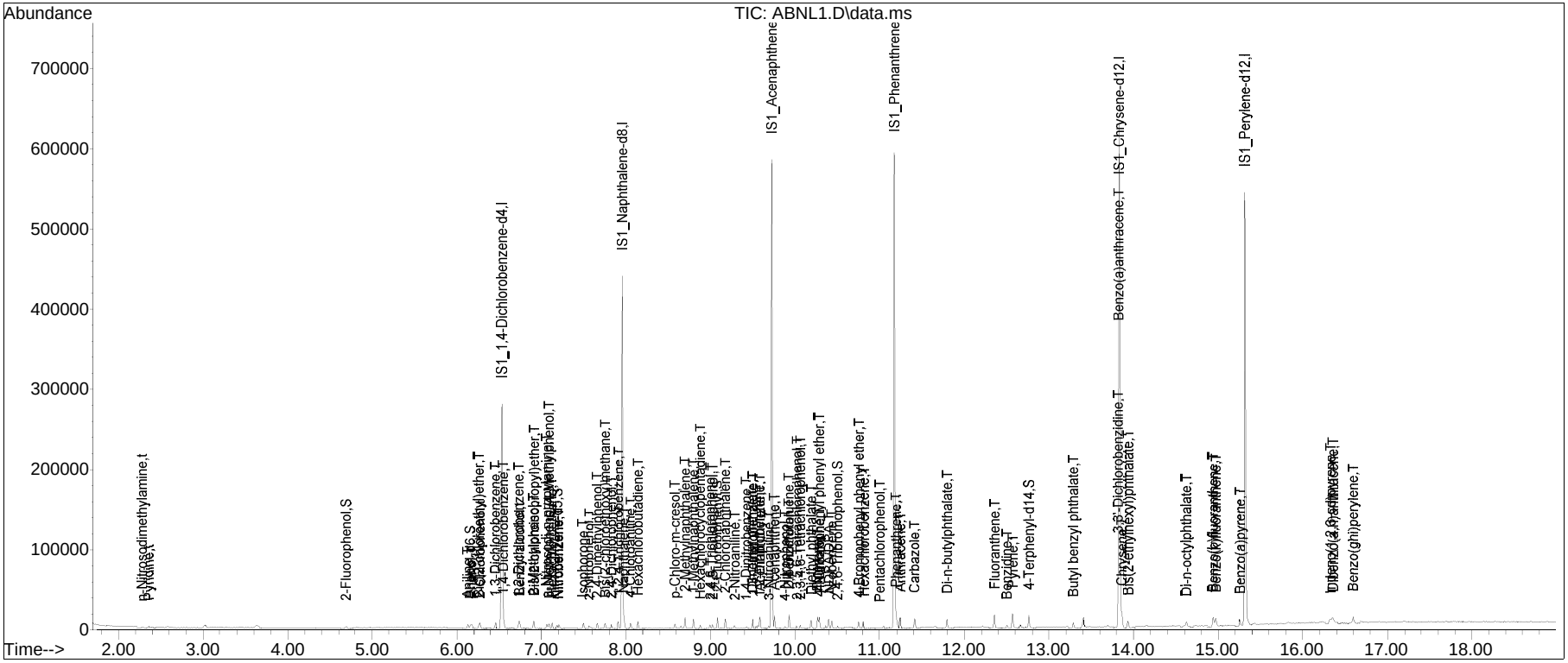
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

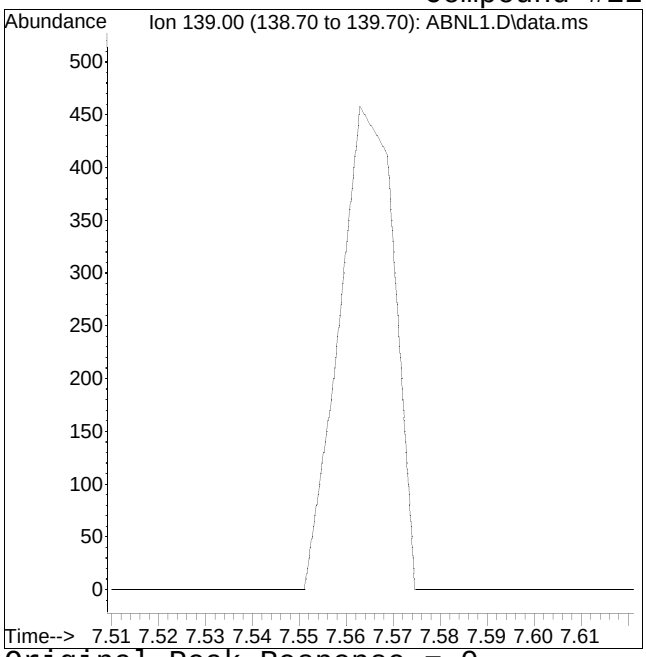
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



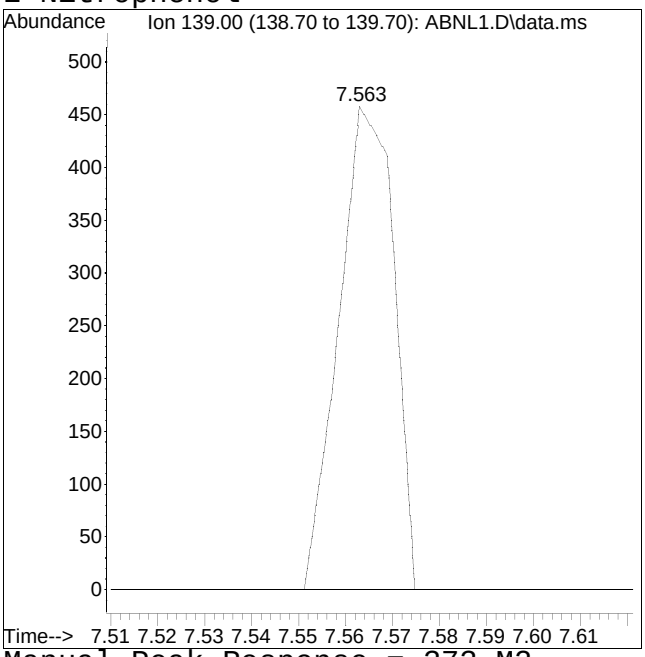
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #22: 2-Nitrophenol



Original Peak Response = 0



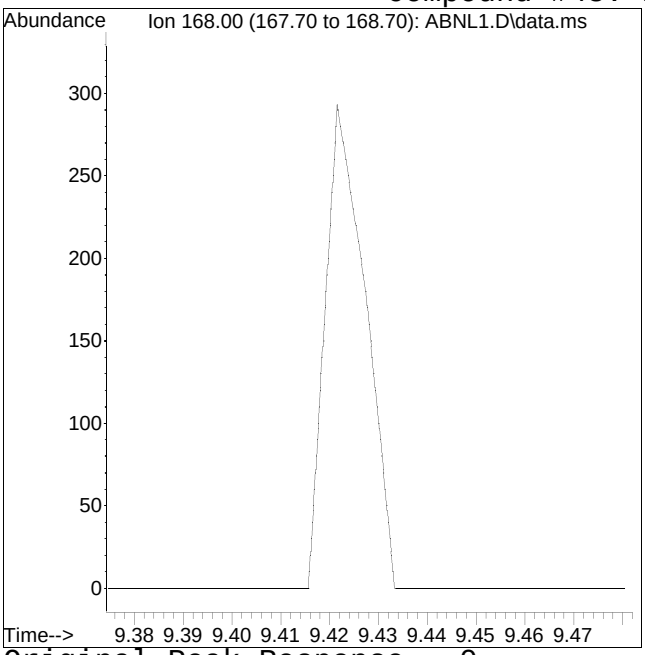
Manual Peak Response = 373 M2

M2 = Peak not found by automatic integration algorithm.

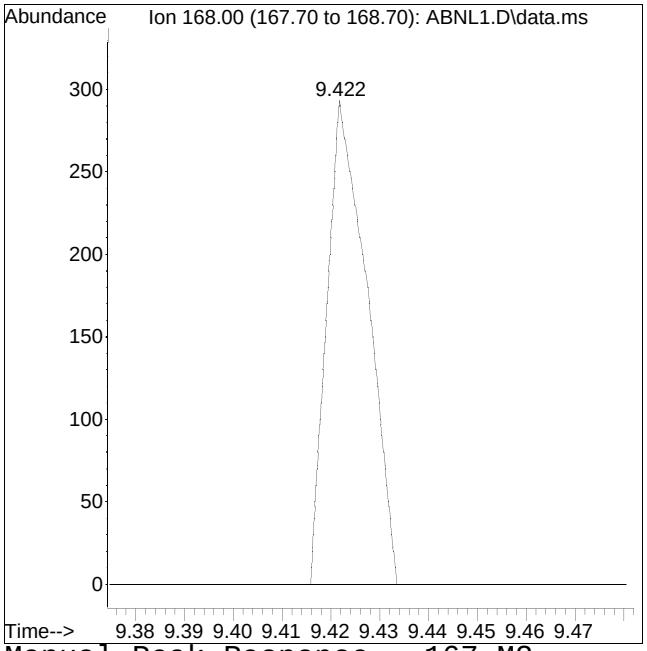
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #48: 1,4-Dinitrobenzene



Original Peak Response = 0



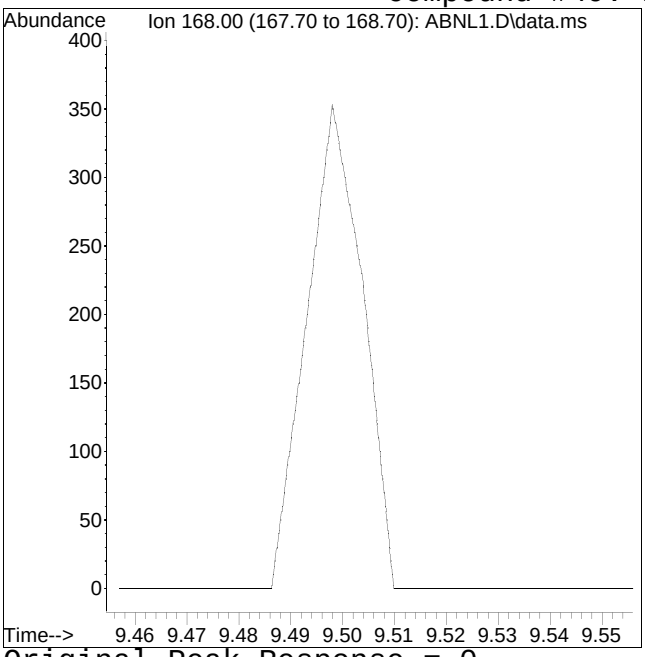
Manual Peak Response = 167 M2

M2 = Peak not found by automatic integration algorithm.

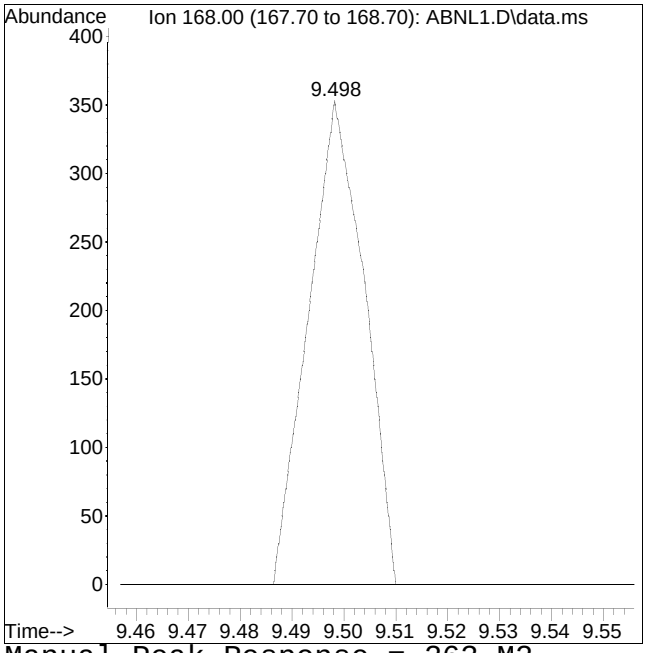
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #49: 1,3-Dinitrobenzene



Original Peak Response = 0



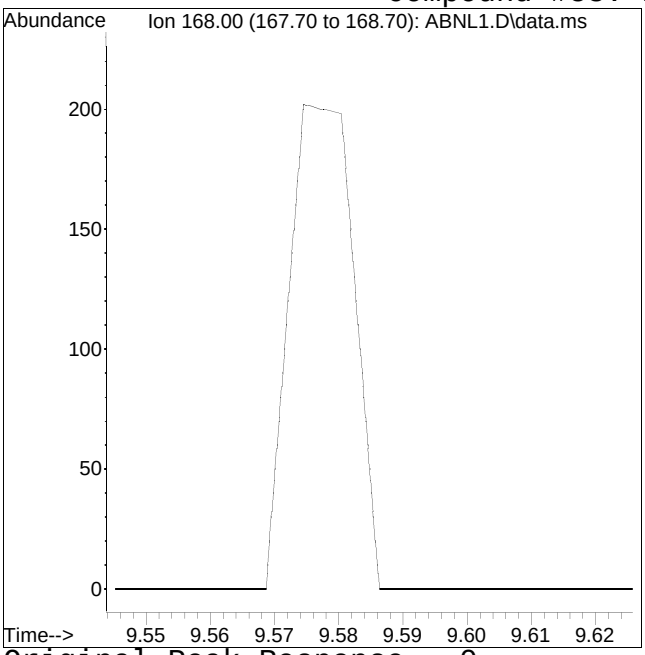
Manual Peak Response = 263 M2

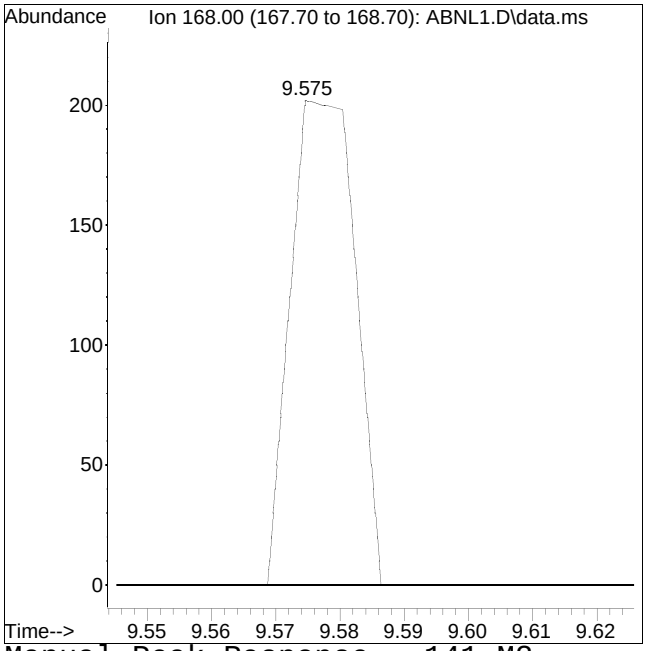
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #53: 1,2-Dinitrobenzene



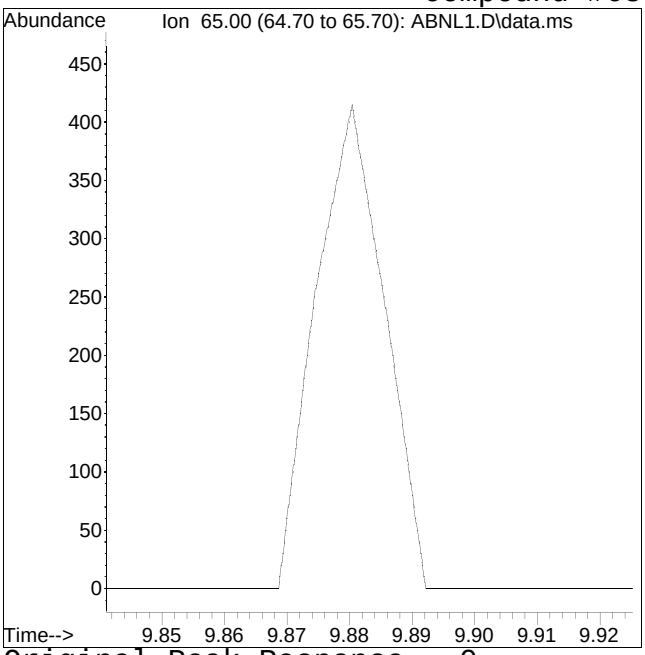


Original Peak Response = 0 Manual Peak Response = 141 M2
M2 = Peak not found by automatic integration algorithm.

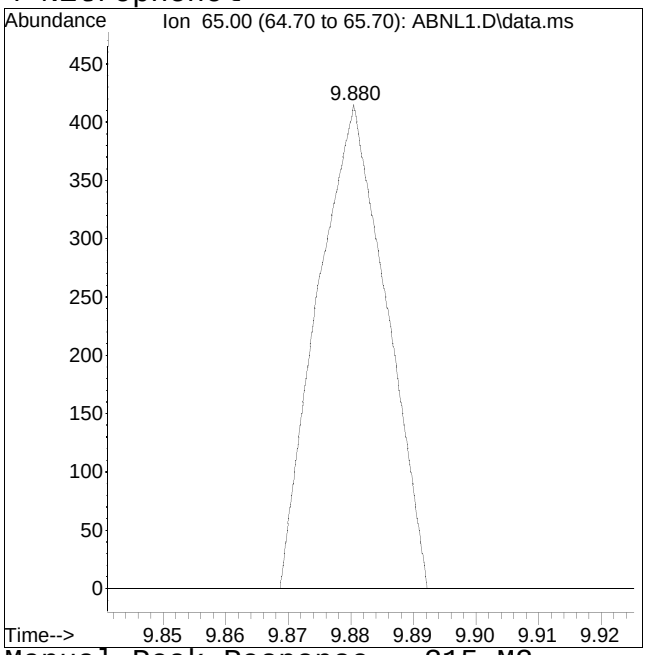
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #68: 4-Nitrophenol



Original Peak Response = 0



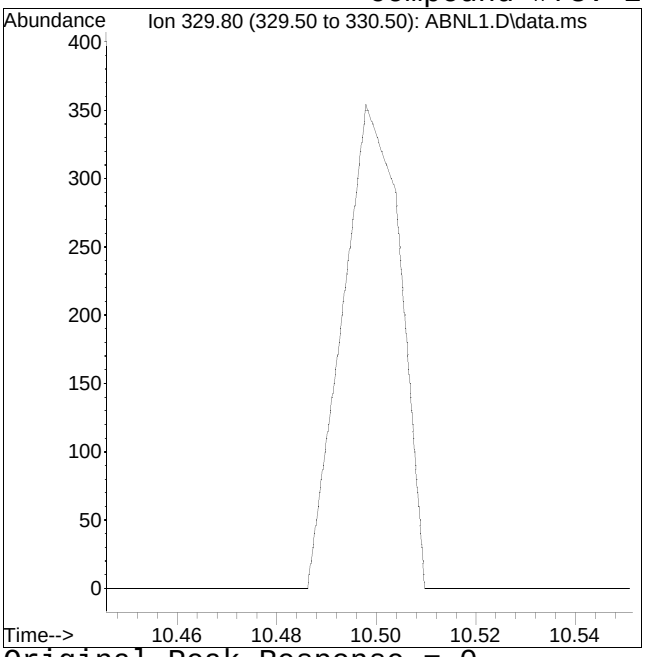
Manual Peak Response = 315 M2

M2 = Peak not found by automatic integration algorithm.

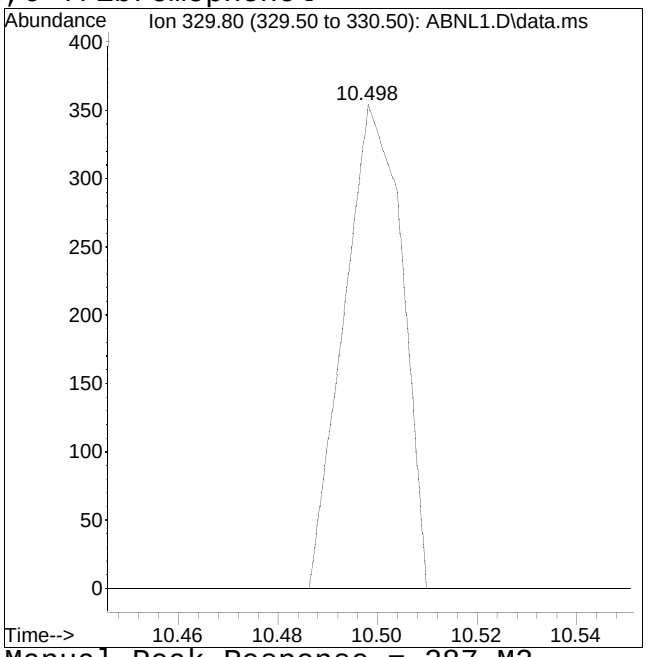
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #78: 2,4,6-Tribromophenol



Original Peak Response = 0



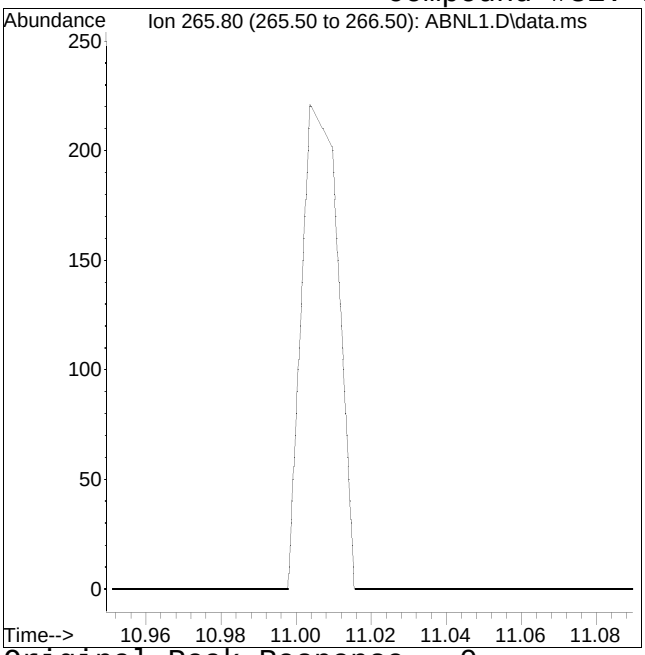
Manual Peak Response = 287 M2

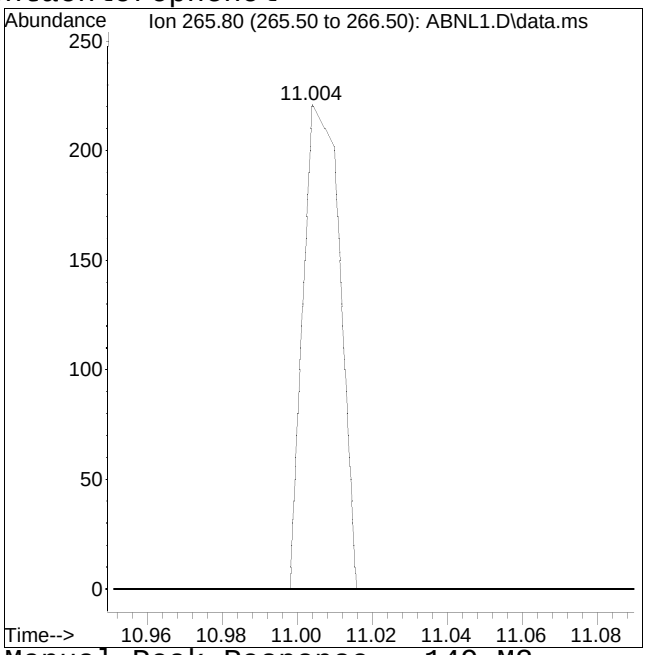
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #81: Pentachlorophenol



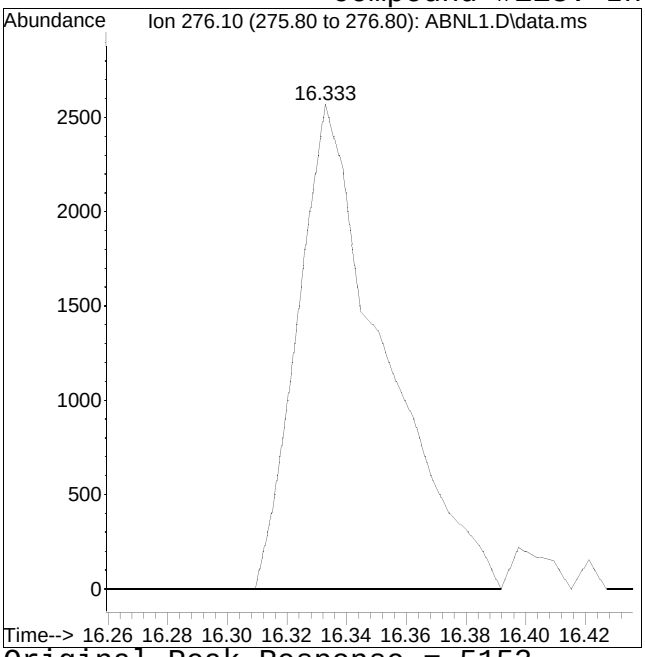


Original Peak Response = 0 Manual Peak Response = 149 M2
M2 = Peak not found by automatic integration algorithm.

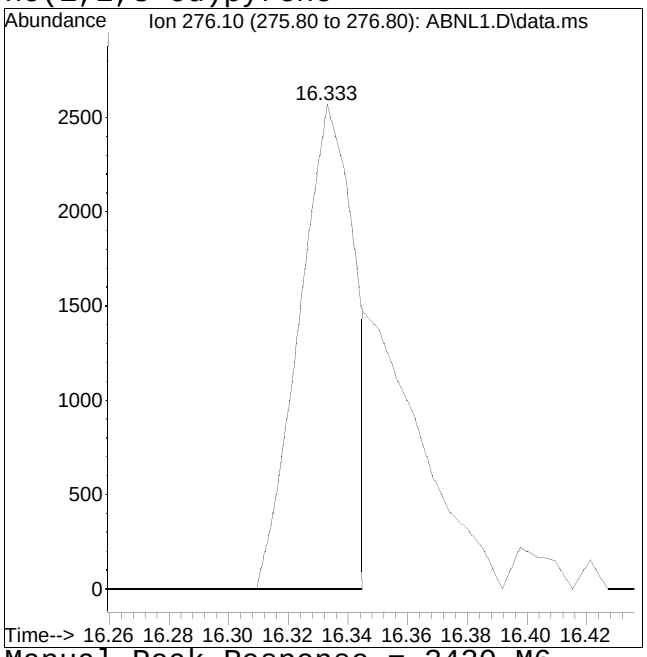
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 5153



Manual Peak Response = 3420 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L9.D
Acq On : 2 Jun 2024 11:21 pm
Operator : SV107:jg
Sample : IL2,32,,AP9L50 Lot# 10700
Misc : WG1929644,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 16:11:45 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	45858	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	103.27%		
54) IS2_Naphthalene-d8	7.957	136	172977	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	102.00%		
82) IS2_Acenaphthene-d10	9.728	164	104823	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	104.98%		
97) IS2_Phenanthrene-d10	11.169	188	219861	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	102.28%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.963	105	618134	54.604	ug/ml	98
29) Acetophenone	7.028	105	1117327	58.154	ug/ml#	82
30) m-Toluidine	7.128	106	1090647	57.246	ug/ml	95
31) 2-Chloroaniline	7.528	127	980664	57.446	ug/ml#	94
55) a-Terpineol	8.034	59	670711	61.601	ug/ml#	76
56) 3-Chloroaniline	8.039	65	344222	52.490	ug/ml	93
57) 2,6-Dichlorophenol	8.075	162	742012	64.537	ug/ml#	86
58) 1-chloro-2-nitrobenzene	8.339	111	317541	61.890	ug/ml#	1
59) Caprolactam	8.404	55	360505M3	53.080	ug/ml	
60) 1,2,4,5-Tetrachloroben...	8.875	216	906675	52.212	ug/ml	97
61) Biphenyl	9.175	154	2123620	54.675	ug/ml	98
83) Dichloran	10.869	206	258446	52.858	ug/ml#	69
84) Pentachloronitrobenzene	11.022	237	253718	57.643	ug/ml#	83
98) Diphenamid	12.080	167	1514426	74.549	ug/ml#	81

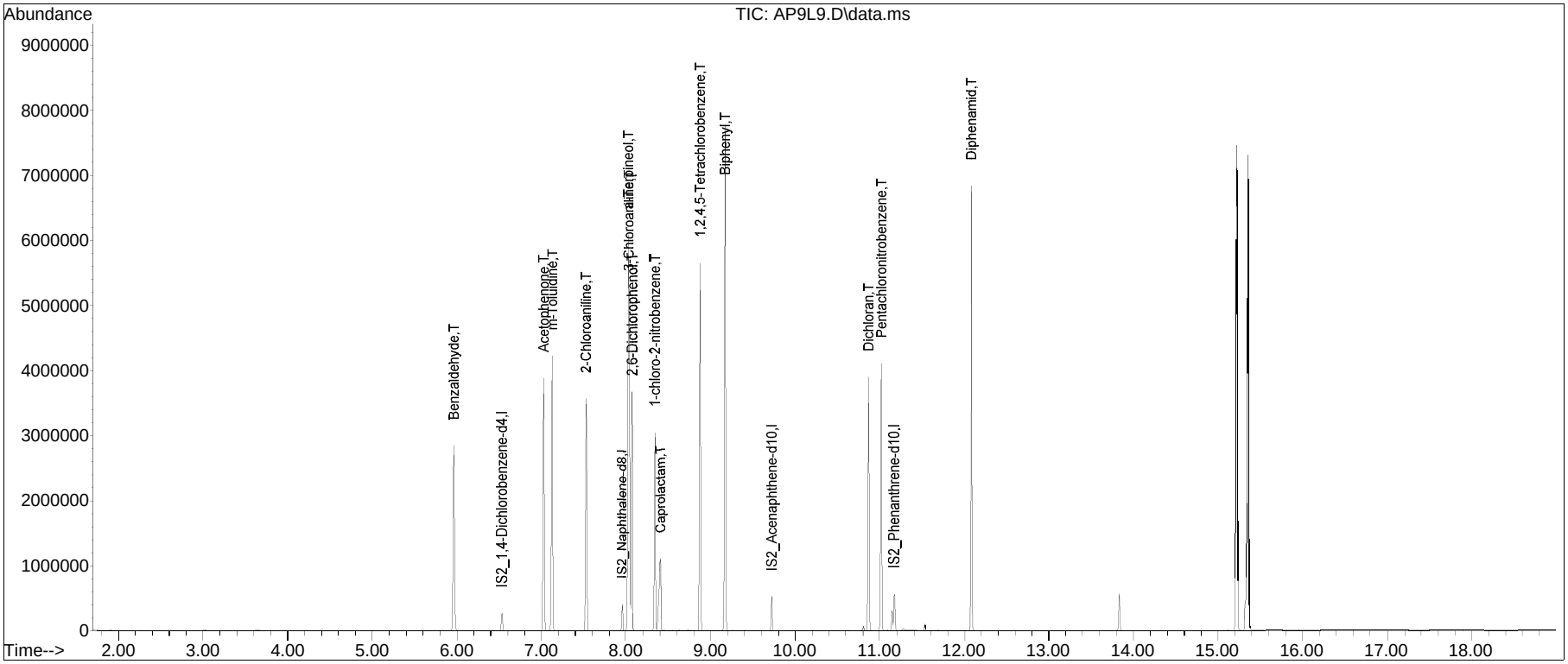
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L9.D
Acq On : 2 Jun 2024 11:21 pm
Operator : SV107:jg
Sample : IL2,32,,AP9L50 Lot# 10700
Misc : WG1929644,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 16:11:45 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

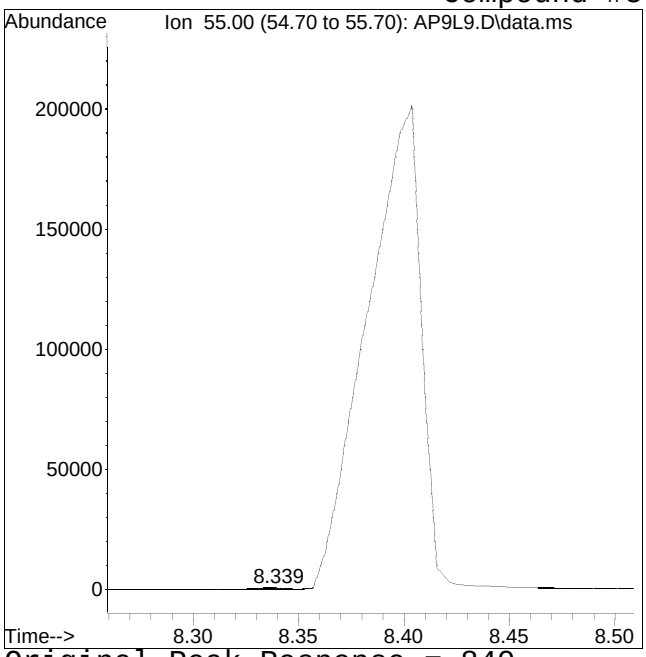
Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•

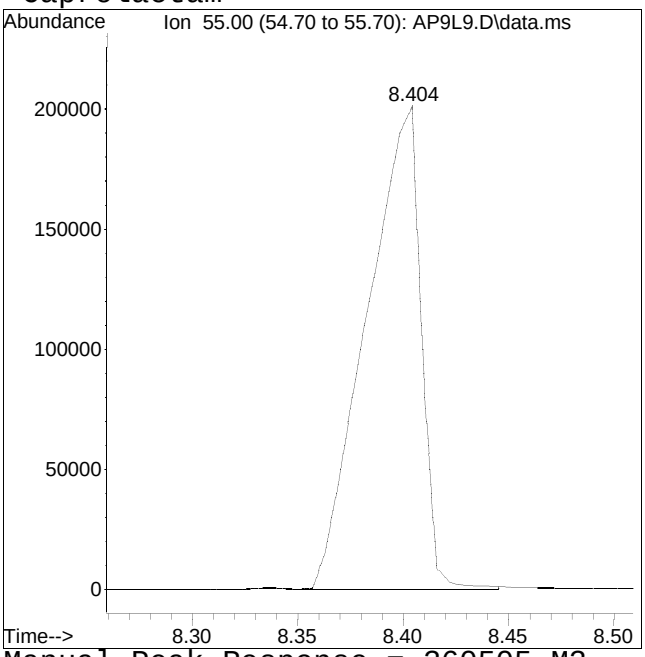


Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : AP9L9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 11:21 pm Instrument : SV107
Sample : IL2,32,,AP9L50 Lot# 10700 Quant Date : 6/3/2024 10:24 am

Compound #59: Caprolactam





Original Peak Response = 840 Manual Peak Response = 360505 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L8.D
Acq On : 2 Jun 2024 11:47 pm
Operator : SV107:jg
Sample : IL3,32,,AP9L25 Lot# 10701
Misc : WG1929644,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 16:11:04 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	51703	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	116.43%		
54) IS2_Naphthalene-d8	7.957	136	192684	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	113.62%		
82) IS2_Acenaphthene-d10	9.727	164	119026	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	119.21%		
97) IS2_Phenanthrene-d10	11.169	188	250969	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	116.75%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.963	105	330697	25.910	ug/ml	98
29) Acetophenone	7.028	105	594302	27.435	ug/ml#	83
30) m-Toluidine	7.122	106	591629	27.543	ug/ml	95
31) 2-Chloroaniline	7.528	127	522346	27.139	ug/ml	94
55) a-Terpineol	8.028	59	360696	29.740	ug/ml#	78
56) 3-Chloroaniline	8.039	65	188453	25.798	ug/ml	91
57) 2,6-Dichlorophenol	8.069	162	398570	31.121	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.333	111	170632	29.855	ug/ml#	1
59) Caprolactam	8.386	55	201135	26.902	ug/ml#	68
60) 1,2,4,5-Tetrachloroben...	8.875	216	493850	25.530	ug/ml	97
61) Biphenyl	9.175	154	1167371	26.981	ug/ml	99
83) Dichloran	10.869	206	134106	27.858	ug/ml#	69
84) Pentachloronitrobenzene	11.016	237	134633	27.285	ug/ml#	83
98) Diphenamid	12.080	167	810689	34.960	ug/ml#	81

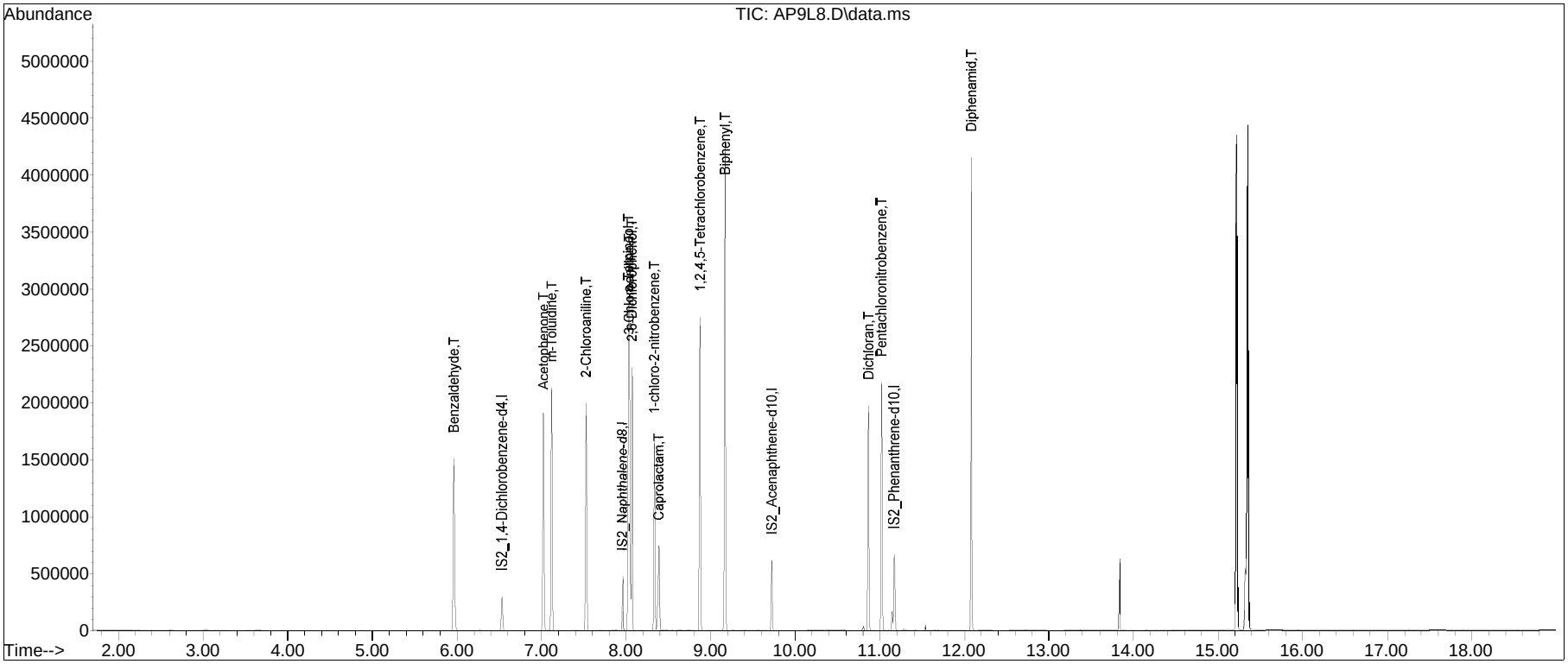
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L8.D
Acq On : 2 Jun 2024 11:47 pm
Operator : SV107:jg
Sample : IL3,32,,AP9L25 Lot# 10701
Misc : WG1929644,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 16:11:04 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L8.D	Operator	: SV107:jg
Date Inj'd	: 6/2/2024 11:47 pm	Instrument	: SV107
Sample	: IL3,32,,AP9L25 Lot# 10701	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L7.D
Acq On : 3 Jun 2024 12:12 am
Operator : SV107:jg
Sample : IL4,32,,AP9L10 Lot# 10702
Misc : WG1929644,,ical
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 16:10:43 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.533	152	48096	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery =	108.31%			
54) IS2_Naphthalene-d8	7.957	136	179982	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery =	106.13%			
82) IS2_Acenaphthene-d10	9.727	164	110207	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery =	110.37%			
97) IS2_Phenanthrene-d10	11.168	188	230804	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery =	107.37%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.963	105	123578	10.408	ug/ml		99
29) Acetophenone	7.022	105	219138	10.875	ug/ml	#	83
30) m-Toluidine	7.122	106	212267	10.623	ug/ml		95
31) 2-Chloroaniline	7.528	127	192499	10.752	ug/ml	#	93
55) a-Terpineol	8.027	59	128933	11.381	ug/ml	#	76
56) 3-Chloroaniline	8.039	65	68122	9.984	ug/ml		91
57) 2,6-Dichlorophenol	8.069	162	142626	11.922	ug/ml	#	87
58) 1-chloro-2-nitrobenzene	8.333	111	59869	11.214	ug/ml	#	1
59) Caprolactam	8.375	55	72277	10.740	ug/ml	#	68
60) 1,2,4,5-Tetrachloroben...	8.874	216	178600	9.885	ug/ml		97
61) Biphenyl	9.174	154	412907	10.217	ug/ml		99
83) Dichloran	10.863	206	40375	10.432	ug/ml	#	74
84) Pentachloronitrobenzene	11.016	237	44261	10.108	ug/ml	#	83
98) Diphenamid	12.080	167	288397	13.523	ug/ml		82

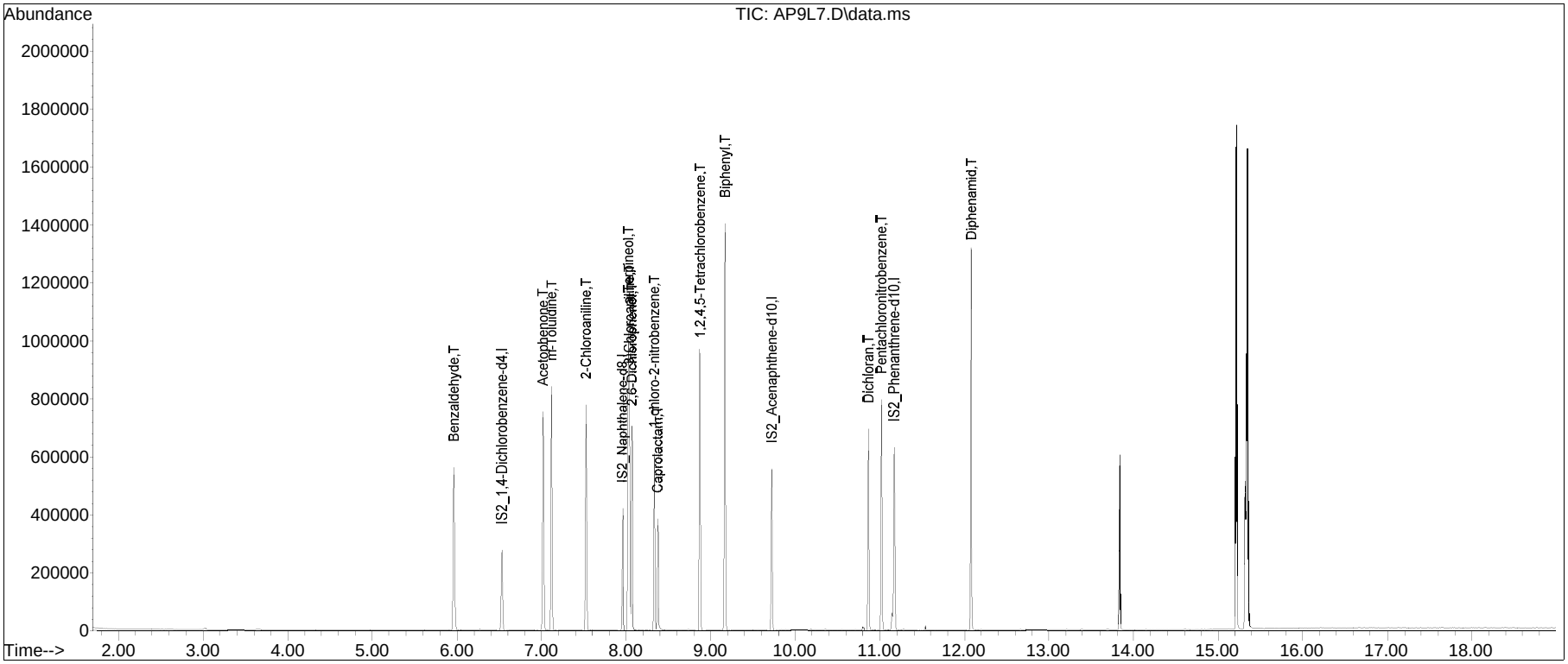
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L7.D
Acq On : 3 Jun 2024 12:12 am
Operator : SV107:jg
Sample : IL4,32,,AP9L10 Lot# 10702
Misc : WG1929644,,ical
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 16:10:43 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L7.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 12:12 am	Instrument	: SV107
Sample	: IL4,32,,AP9L10 Lot# 10702	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L6.D
Acq On : 3 Jun 2024 12:37 am
Operator : SV107:jg
Sample : IL5,32,,AP9L5 Lot# 10703
Misc : WG1929644,,ical
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 16:10:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	44406	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	100.00%		
54) IS2_Naphthalene-d8	7.957	136	169580	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	100.00%		
82) IS2_Acenaphthene-d10	9.728	164	99848	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	100.00%		
97) IS2_Phenanthrene-d10	11.169	188	214959	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.963	105	53347	4.867	ug/ml	98
29) Acetophenone	7.022	105	94421	5.075	ug/ml#	82
30) m-Toluidine	7.122	106	90846	4.924	ug/ml	94
31) 2-Chloroaniline	7.528	127	83530	5.053	ug/ml#	94
55) a-Terpineol	8.022	59	54760	5.130	ug/ml#	77
56) 3-Chloroaniline	8.034	65	29581	4.601	ug/ml	89
57) 2,6-Dichlorophenol	8.063	162	59495	5.278	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.334	111	23611	4.694	ug/ml#	1
59) Caprolactam	8.369	55	30038	5.091	ug/ml#	71
60) 1,2,4,5-Tetrachloroben...	8.869	216	78097	4.587	ug/ml	97
61) Biphenyl	9.175	154	181083	4.756	ug/ml	99
83) Dichloran	10.863	206	14102	4.535	ug/ml#	80
84) Pentachloronitrobenzene	11.016	237	16652	4.578	ug/ml#	83
98) Diphenamid	12.074	167	116240	5.852	ug/ml#	81

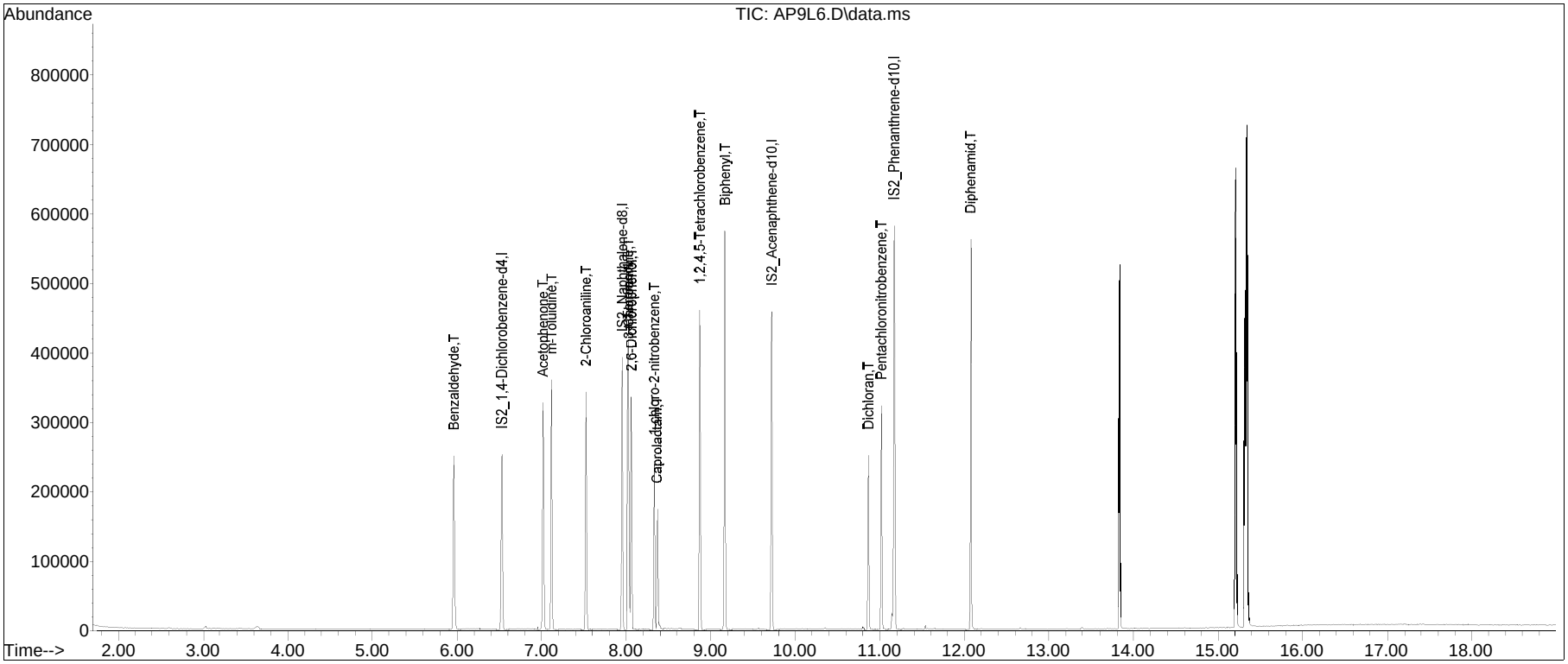
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L6.D
Acq On : 3 Jun 2024 12:37 am
Operator : SV107:jg
Sample : IL5,32,,AP9L5 Lot# 10703
Misc : WG1929644,,ical
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 16:10:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L6.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 12:37 am	Instrument	: SV107
Sample	: IL5,32,,AP9L5 Lot# 10703	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L5.D
Acq On : 3 Jun 2024 1:08 am
Operator : SV107:jg
Sample : IL6,32,,AP9L2.5 Lot# 10704
Misc : WG1929644,,ical
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 03 16:10:01 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.540	152	46890	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery = 105.59%			
54) IS2_Naphthalene-d8	7.957	136	170919	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery = 100.79%			
82) IS2_Acenaphthene-d10	9.728	164	103469	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery = 103.63%			
97) IS2_Phenanthrene-d10	11.175	188	220465	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery = 102.56%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.975	105	28474	2.460	ug/ml	98
29) Acetophenone	7.028	105	49113	2.500	ug/ml#	85
30) m-Toluidine	7.128	106	46785	2.402	ug/ml	95
31) 2-Chloroaniline	7.534	127	43298	2.481	ug/ml#	93
55) a-Terpineol	8.028	59	27803	2.584	ug/ml#	76
56) 3-Chloroaniline	8.040	65	15735	2.428	ug/ml	86
57) 2,6-Dichlorophenol	8.069	162	30396	2.676	ug/ml#	88
58) 1-chloro-2-nitrobenzene	8.339	111	12100	2.387	ug/ml#	1
59) Caprolactam	8.369	55	14231	2.729	ug/ml#	69
60) 1,2,4,5-Tetrachloroben...	8.875	216	40773	2.376	ug/ml	97
61) Biphenyl	9.175	154	95343	2.484	ug/ml	99
83) Dichloran	10.869	206	6586	2.397	ug/ml#	80
84) Pentachloronitrobenzene	11.022	237	7921	2.454	ug/ml#	82
98) Diphenamid	12.080	167	59344	2.913	ug/ml#	82

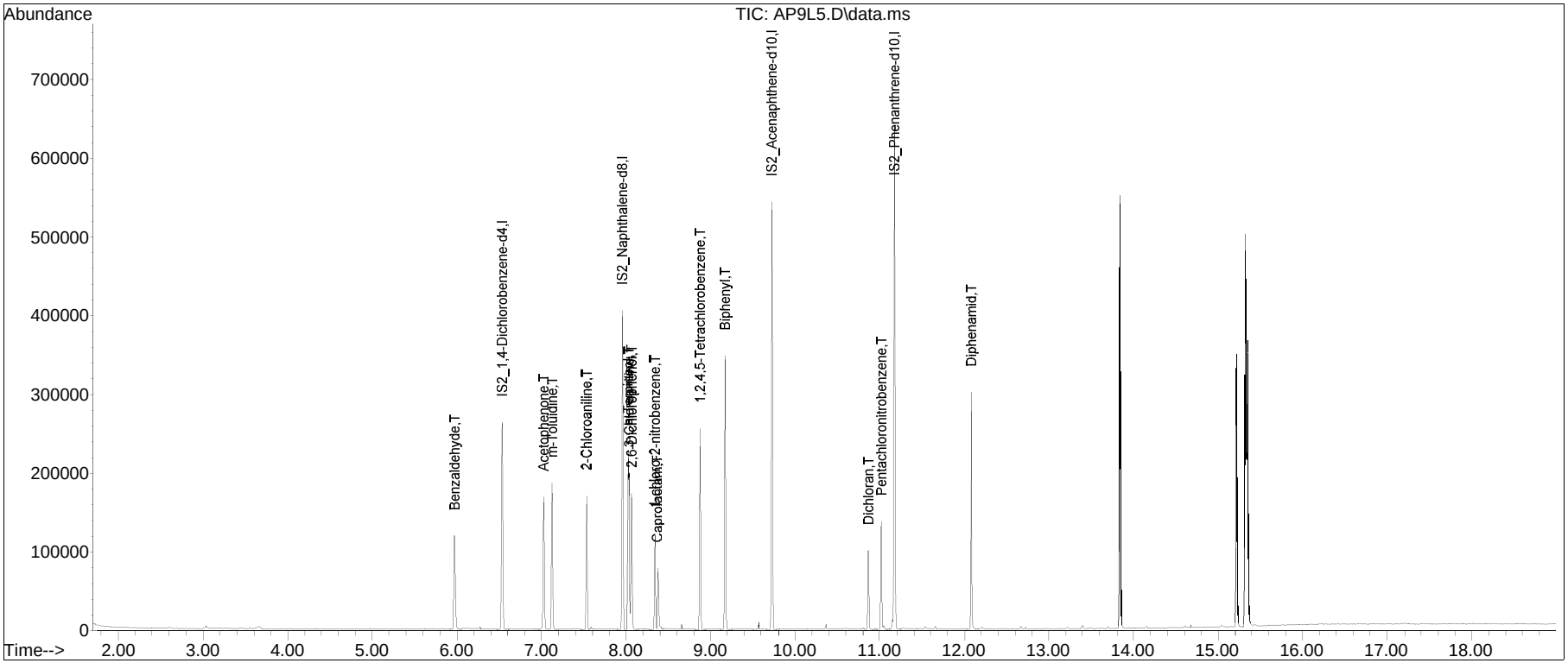
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L5.D
Acq On : 3 Jun 2024 1:08 am
Operator : SV107:jg
Sample : IL6,32,,AP9L2.5 Lot# 10704
Misc : WG1929644,,ical
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 03 16:10:01 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L5.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 1:08 am	Instrument	: SV107
Sample	: IL6,32,,AP9L2.5 Lot# 10704	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L4.D
Acq On : 3 Jun 2024 1:33 am
Operator : SV107:jg
Sample : IL7,32,,AP9L1 Lot# 10705
Misc : WG1929644,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 16:09:41 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	47509	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	106.99%		
54) IS2_Naphthalene-d8	7.957	136	173835	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	102.51%		
82) IS2_Acenaphthene-d10	9.728	164	103977	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	104.14%		
97) IS2_Phenanthrene-d10	11.169	188	219480	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	102.10%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.969	105	12095	1.031	ug/ml	95
29) Acetophenone	7.028	105	20411	1.025	ug/ml#	85
30) m-Toluidine	7.122	106	18578	0.941	ug/ml	93
31) 2-Chloroaniline	7.528	127	17491	0.989	ug/ml	94
55) a-Terpineol	8.022	59	11870	1.085	ug/ml#	79
56) 3-Chloroaniline	8.040	65	6420	0.974	ug/ml	82
57) 2,6-Dichlorophenol	8.063	162	11983	1.037	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.334	111	4685	0.909	ug/ml#	1
59) Caprolactam	8.369	55	5453	1.423	ug/ml#	80
60) 1,2,4,5-Tetrachloroben...	8.869	216	17097	0.980	ug/ml#	95
61) Biphenyl	9.175	154	38926	0.997	ug/ml	99
83) Dichloran	10.863	206	2167	1.192	ug/ml	85
84) Pentachloronitrobenzene	11.016	237	2723	1.268	ug/ml#	84
98) Diphenamid	12.075	167	22513	1.110	ug/ml#	81

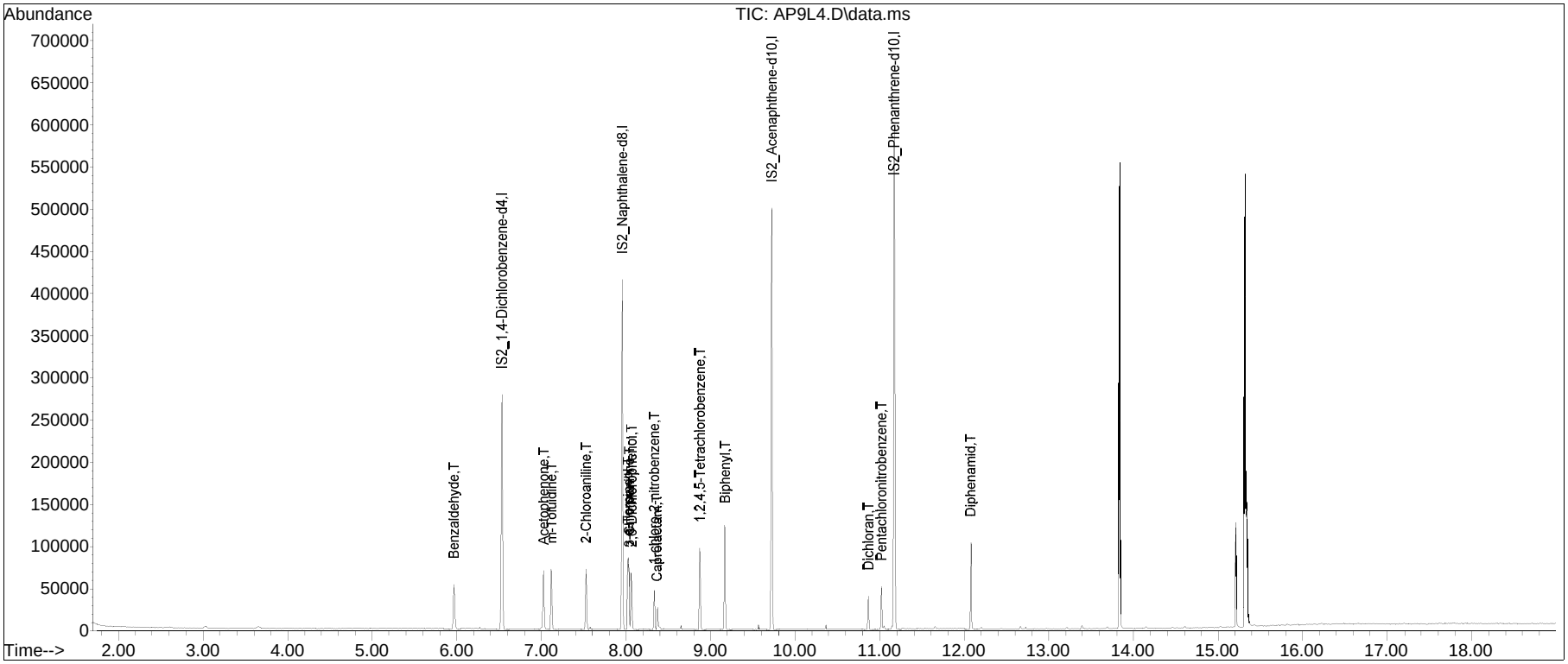
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L4.D
Acq On : 3 Jun 2024 1:33 am
Operator : SV107:jg
Sample : IL7,32,,AP9L1 Lot# 10705
Misc : WG1929644,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 16:09:41 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L4.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 1:33 am	Instrument	: SV107
Sample	: IL7,32,,AP9L1 Lot# 10705	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L3.D
Acq On : 3 Jun 2024 1:58 am
Operator : SV107:jg
Sample : IL8,32,,AP9L0.5 Lot# 10706
Misc : WG1929644,,ical
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 16:09:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.534	152	49009	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery = 110.37%				
54) IS2_Naphthalene-d8	7.957	136	179546	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery = 105.88%				
82) IS2_Acenaphthene-d10	9.728	164	109029	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery = 109.19%				
97) IS2_Phenanthrene-d10	11.169	188	231050	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery = 107.49%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.969	105	6140	0.508	ug/ml		97
29) Acetophenone	7.028	105	10875	0.530	ug/ml	#	91
30) m-Toluidine	7.122	106	9689	0.476	ug/ml		93
31) 2-Chloroaniline	7.528	127	9015	0.494	ug/ml		94
55) a-Terpineol	8.022	59	6227	0.551	ug/ml	#	77
56) 3-Chloroaniline	8.039	65	3347	0.492	ug/ml		89
57) 2,6-Dichlorophenol	8.063	162	6354	0.532	ug/ml	#	89
58) 1-chloro-2-nitrobenzene	8.334	111	2550	0.479	ug/ml	#	1
59) Caprolactam	8.369	55	2660	1.007	ug/ml	#	93
60) 1,2,4,5-Tetrachloroben...	8.875	216	9408	0.522	ug/ml	#	94
61) Biphenyl	9.175	154	21583	0.535	ug/ml		99
83) Dichloran	10.863	206	1250	0.926	ug/ml	#	79
84) Pentachloronitrobenzene	11.016	237	1494	0.974	ug/ml	#	81
98) Diphenamid	12.080	167	11982	0.561	ug/ml	#	79

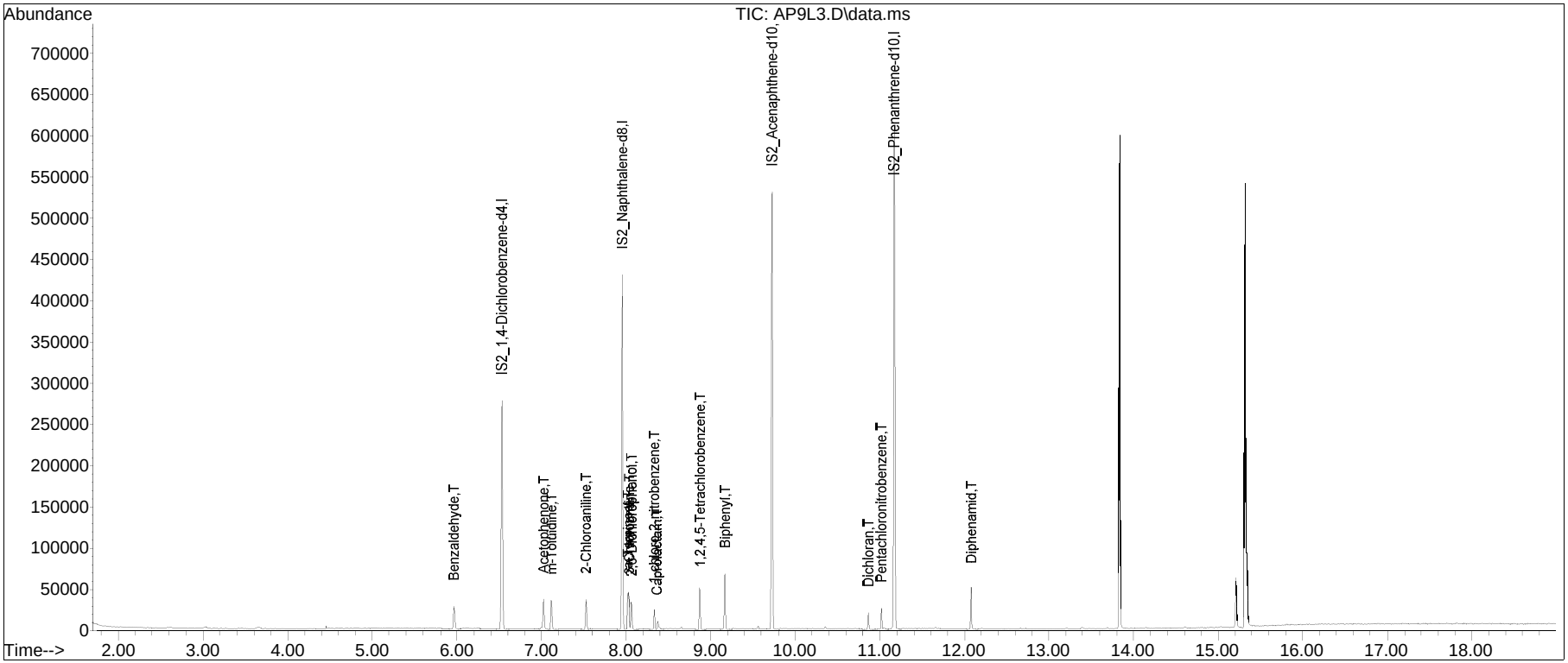
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L3.D
Acq On : 3 Jun 2024 1:58 am
Operator : SV107:jg
Sample : IL8,32,,AP9L0.5 Lot# 10706
Misc : WG1929644,,ical
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 16:09:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L3.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 1:58 am	Instrument	: SV107
Sample	: IL8,32,,AP9L0.5 Lot# 10706	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L2.D
Acq On : 3 Jun 2024 2:23 am
Operator : SV107:jg
Sample : IL9,32,,AP9L0.2 Lot# 10707
Misc : WG1929644,,ical
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 03 16:08:57 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	49463	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	111.39%		
54) IS2_Naphthalene-d8	7.957	136	179922	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	106.10%		
82) IS2_Acenaphthene-d10	9.728	164	109290	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	109.46%		
97) IS2_Phenanthrene-d10	11.169	188	228813	4.000	ug/ml	# 0.00
Standard Area 3 = 214959			Recovery =	106.44%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.975	105	2696	0.221	ug/ml	93
29) Acetophenone	7.028	105	4186	0.202	ug/ml#	92
30) m-Toluidine	7.122	106	3525	0.172	ug/ml	95
31) 2-Chloroaniline	7.528	127	3896	0.212	ug/ml	94
55) a-Terpineol	8.022	59	2243	0.198	ug/ml#	68
56) 3-Chloroaniline	8.040	65	1322	0.194	ug/ml	82
57) 2,6-Dichlorophenol	8.063	162	2307	0.193	ug/ml#	88
58) 1-chloro-2-nitrobenzene	8.334	111	1090	0.204	ug/ml#	1
59) Caprolactam	8.387	55	790	0.745	ug/ml#	43
60) 1,2,4,5-Tetrachloroben...	8.869	216	3668	0.203	ug/ml	94
61) Biphenyl	9.175	154	8671	0.215	ug/ml	100
83) Dichloran	10.863	206	506	0.731	ug/ml#	69
84) Pentachloronitrobenzene	11.016	237	485	0.756	ug/ml#	37
98) Diphenamid	12.075	167	4329	0.205	ug/ml	83

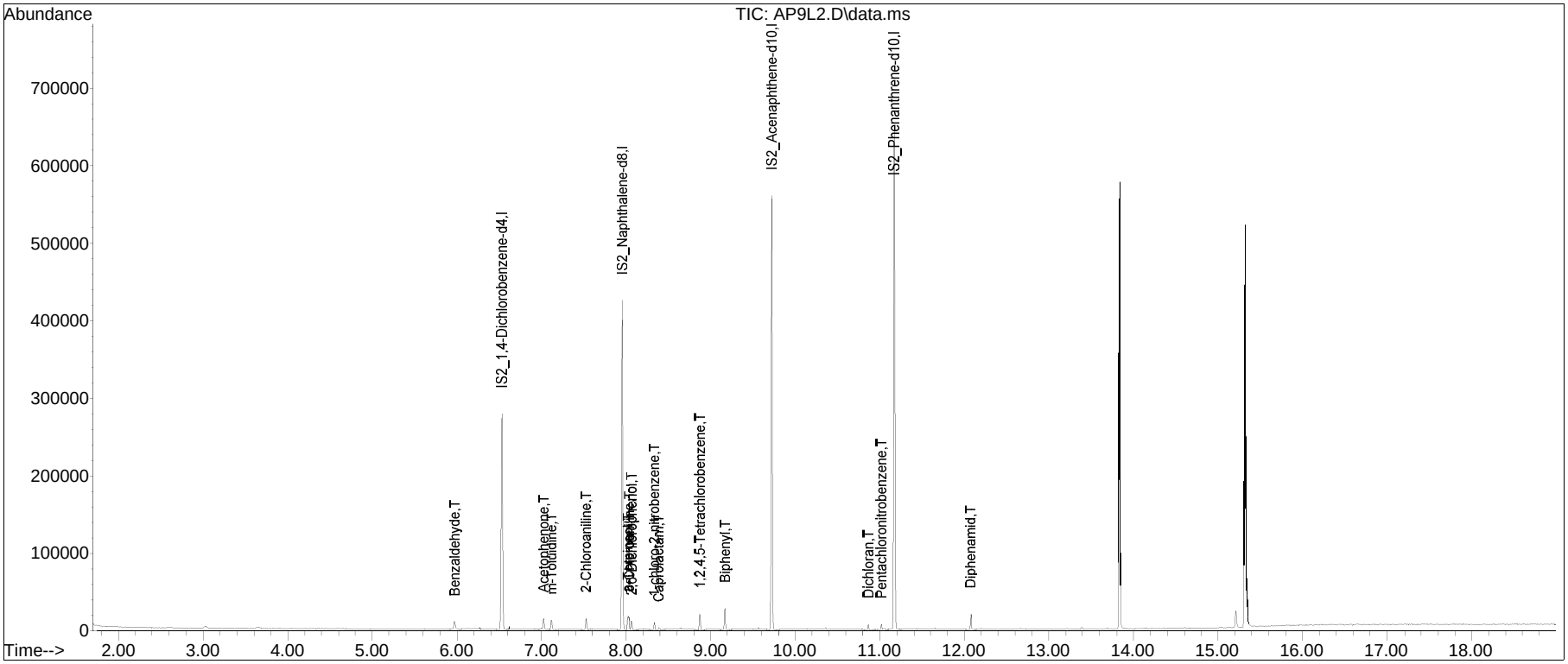
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L2.D
Acq On : 3 Jun 2024 2:23 am
Operator : SV107:jg
Sample : IL9,32,,AP9L0.2 Lot# 10707
Misc : WG1929644,,ical
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 03 16:08:57 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L2.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 2:23 am	Instrument	: SV107
Sample	: IL9,32,,AP9L0.2 Lot# 10707	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L1.D
Acq On : 3 Jun 2024 2:49 am
Operator : SV107:jg
Sample : IL10,32,,AP9L0.1 Lot# 10708
Misc : WG1929644,,ical
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 03 16:08:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	49963	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery = 112.51%			
54) IS2_Naphthalene-d8	7.957	136	180953	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery = 106.71%			
82) IS2_Acenaphthene-d10	9.727	164	108611	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery = 108.78%			
97) IS2_Phenanthrene-d10	11.169	188	222108	4.000	ug/ml	# 0.00
Standard Area 3 = 214959			Recovery = 103.33%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.975	105	1301	0.105	ug/ml	91
29) Acetophenone	7.028	105	2195	0.105	ug/ml#	81
30) m-Toluidine	7.128	106	1360	0.066	ug/ml#	93
31) 2-Chloroaniline	7.528	127	1858	0.100	ug/ml#	92
55) a-Terpineol	8.022	59	1234	0.108	ug/ml#	75
56) 3-Chloroaniline	8.033	65	582	0.085	ug/ml	87
57) 2,6-Dichlorophenol	8.069	162	1076	0.089	ug/ml#	89
58) 1-chloro-2-nitrobenzene	8.333	111	460	0.086	ug/ml#	1
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	8.869	216	1907	0.105	ug/ml#	87
61) Biphenyl	9.175	154	4181	0.103	ug/ml	97
83) Dichloran	10.863	206	245M2	0.663	ug/ml	
84) Pentachloronitrobenzene	11.016	237	92M6	0.671	ug/ml	
98) Diphenamid	12.074	167	2056	0.100	ug/ml	86

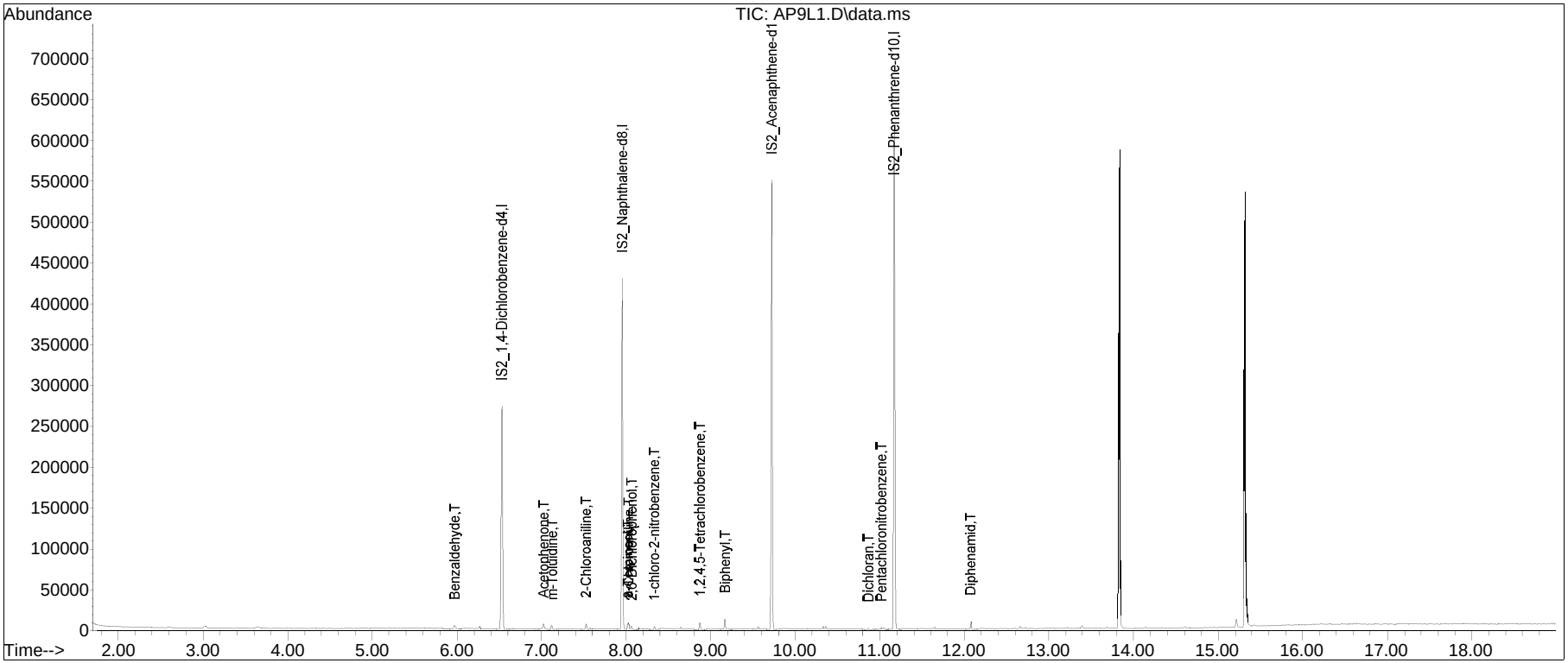
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L1.D
Acq On : 3 Jun 2024 2:49 am
Operator : SV107:jg
Sample : IL10,32,,AP9L0.1 Lot# 10708
Misc : WG1929644,,ical
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 03 16:08:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

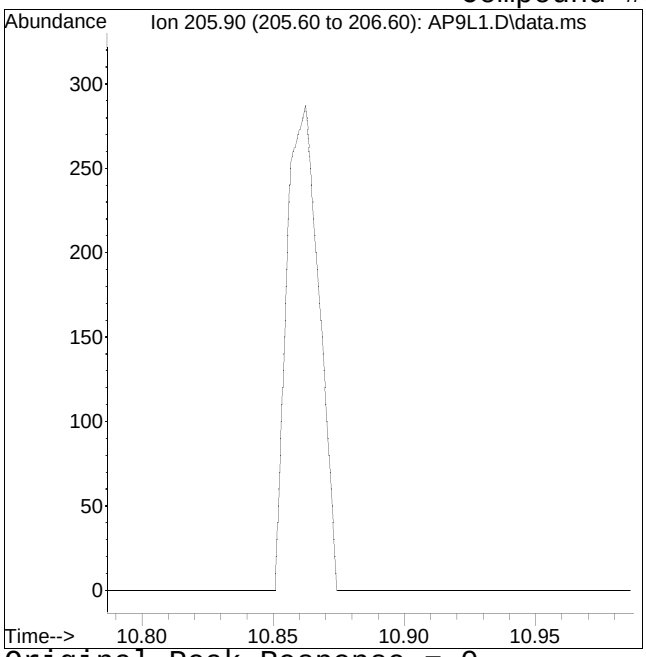
Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



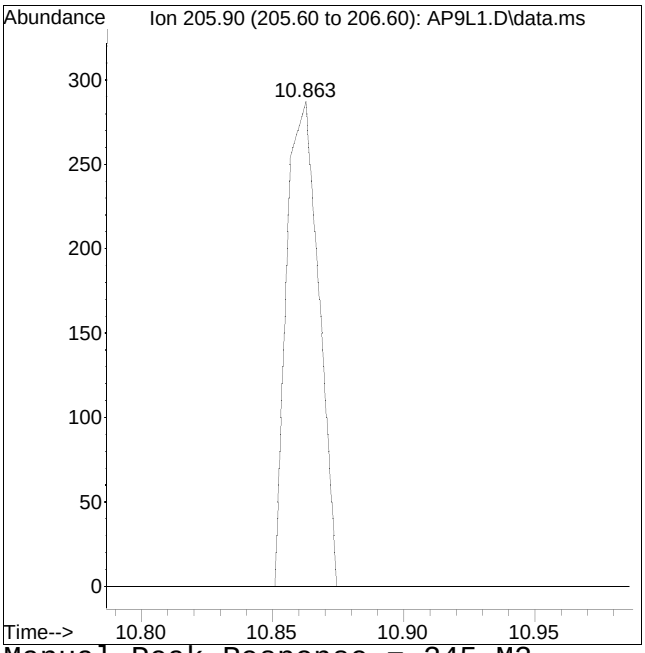
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : AP9L1.D Operator : SV107:jg
Date Inj'd : 6/3/2024 2:49 am Instrument : SV107
Sample : IL10,32,,AP9L0.1 Lot# 1070Quant Date : 6/3/2024 10:23 am

Compound #83: Dichloran



Original Peak Response = 0



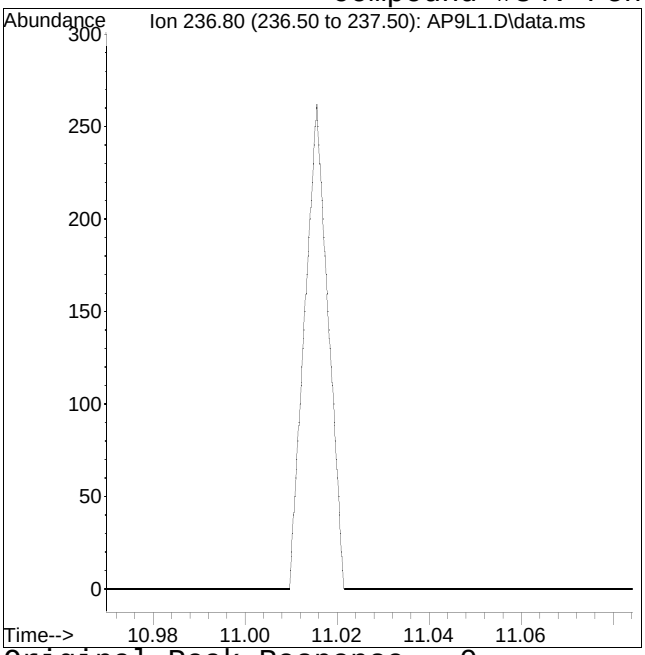
Manual Peak Response = 245 M2

M2 = Peak not found by automatic integration algorithm.

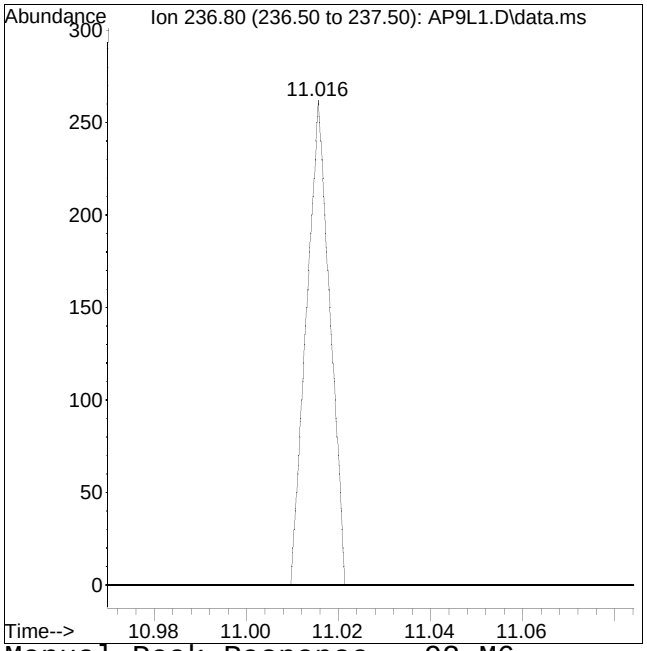
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : AP9L1.D Operator : SV107:jg
Date Inj'd : 6/3/2024 2:49 am Instrument : SV107
Sample : IL10,32,,AP9L0.1 Lot# 1070 Quant Date : 6/3/2024 10:23 am

Compound #84: Pentachloronitrobenzene



Original Peak Response = 0



Manual Peak Response = 92 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	92	0.00
2	t	n-Nitrosodimethylamine		0.704	0.768	-9.1	103	0.00
3	t	Pyridine		1.199	1.251	-4.3	100	-0.02
4	S	2-Fluorophenol		1.069	1.146	-7.2	102	0.00
5	T	Aniline		1.713	1.863	-8.8	106	0.00
6	t	2-Chlorophenol		1.178	1.257	-6.7	103	0.00
7	S	Phenol-d6		1.322	1.436	-8.6	105	0.00
8	T	Phenol		1.438	1.539	-7.0	105	0.00
9	T	Bis(2-chloroethyl)ether		1.185	1.257	-6.1	106	0.00
10	T	1,3-Dichlorobenzene		1.452	1.551	-6.8	105	0.00
11	T	1,4-Dichlorobenzene		1.478	1.555	-5.2	104	0.00
12	T	1,2-Dichlorobenzene		1.426	1.507	-5.7	104	0.00
13	t	Benzyl alcohol		1.000	1.070	-7.0	104	0.00
14	T	Bis(2-chloroisopropyl)ether		1.623	1.732	-6.7	107	0.00
15	T	2-Methylphenol		1.031	1.108	-7.5	103	0.00
16	T	Hexachloroethane		0.545	0.582	-6.8	104	0.00
17	T	n-Nitrosodi-n-propylamine		0.879	0.938	-6.7	104	0.00
18	T	3-Methylphenol/4-Methylphen		1.084	1.189	-9.7	102	0.00
19	S	Nitrobenzene-d5		1.165	1.236	-6.1	99	0.00
20	T	Nitrobenzene		1.197	1.260	-5.3	98	0.00
21	T	Isophorone		2.310	2.527	-9.4	104	0.00
22	T	2-Nitrophenol		0.533	0.499	6.4	93	0.00
23	T	2,4-Dimethylphenol		1.088	1.120	-2.9	98	0.00
24	T	Bis(2-chloroethoxy)methane		1.508	1.642	-8.9	108	0.00
25	T	2,4-Dichlorophenol		1.094	1.207	-10.3	102	0.00
26	T	1,2,4-Trichlorobenzene		1.318	1.411	-7.1	107	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	95	0.00
35	T	Naphthalene		0.996	1.041	-4.5	107	0.00
36	T	Benzoic Acid	*	5.000	4.821	3.6	96	0.00
37	T	4-Chloroaniline		0.126	0.136	-7.9	107	0.00
38	T	Hexachlorobutadiene		0.211	0.230	-9.0	111	0.00
39	T	p-Chloro-m-cresol		0.272	0.297	-9.2	102	0.00
40	T	2-Methylnaphthalene		0.688	0.740	-7.6	107	0.00
41	T	1-Methylnaphthalene		0.235	0.251	-6.8	108	0.00
42	T	Hexachlorocyclopentadiene		0.205	0.225	-9.8	108	0.00
43	T	2,4,6-Trichlorophenol		0.237	0.260	-9.7	101	0.00
44	T	2,4,5-Trichlorophenol		0.251	0.278	-10.8	103	0.00
45	S	2-Fluorobiphenyl		0.866	0.928	-7.2	107	0.00

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.715	0.756	-5.7	106	0.00
47	T	2-Nitroaniline		0.173	0.173	0.0	94	0.00
48	T	1,4-Dinitrobenzene		0.087	0.076	12.6	95	0.00
49	T	1,3-Dinitrobenzene		0.109	0.097	11.0	93	0.00
50	T	Dimethyl phthalate		0.839	0.901	-7.4	105	0.00
51	T	Acenaphthylene		1.079	1.189	-10.2	107	0.00
52	T	2,6-Dinitrotoluene		0.153	0.166	-8.5	98	0.00
53	T	1,2-Dinitrobenzene		0.068	0.070	-2.9	95	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	89	0.00
63	T	3-Nitroaniline		0.259	0.287	-10.8	100	0.00
64	T	Acenaphthene		1.081	1.163	-7.6	107	0.00
65	T	2,4-Dinitrophenol	*	5.000	4.210	15.8	88	0.00
66	T	Dibenzofuran		1.757	1.922	-9.4	107	0.00
67	T	2,4-Dinitrotoluene	*	5.000	4.699	6.0	99	0.00
68	T	4-Nitrophenol		0.221	0.232	-5.0	100	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.318	0.377	-18.6	105	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.314	0.386	-22.9#	107	0.00
71	T	Diethyl phthalate		1.301	1.431	-10.0	107	0.00
72	T	Fluorene		1.328	1.453	-9.4	105	0.00
73	T	4-Chlorophenyl phenyl ether		0.672	0.742	-10.4	108	0.00
74	T	4-Nitroaniline		0.262	0.292	-11.5	104	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	4.232	15.4	98	0.00
76	T	NDPA/DPA		1.131	1.265	-11.8	107	0.00
77	T	Azobenzene		1.259	1.441	-14.5	108	0.00
78	S	2,4,6-Tribromophenol		0.171	0.200	-17.0	102	0.00
79	T	4-Bromophenyl phenyl ether		0.376	0.409	-8.8	106	0.00
80	T	Hexachlorobenzene		0.431	0.465	-7.9	107	0.00
81	T	Pentachlorophenol		0.252	0.269	-6.7	102	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	90	0.00
88	T	Phenanthrene		1.038	1.096	-5.6	105	0.00
89	T	Anthracene		1.030	1.137	-10.4	109	0.00
90	T	Carbazole		0.928	1.011	-8.9	104	0.00
91	T	Di-n-butylphthalate		1.088	1.207	-10.9	104	0.00
92	T	Fluoranthene		1.186	1.307	-10.2	108	0.00
93	T	Benzidine		0.721	0.754	-4.6	101	0.00
94	T	Pyrene		1.269	1.394	-9.9	108	0.00
95	S	4-Terphenyl-d14		0.875	0.956	-9.3	108	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	*	5.000	4.557	8.9	100	0.00
103	I	IS1_Chrysene-d12		1.000	1.000	0.0	86	0.00
104	T	Benzo(a)anthracene		1.335	1.459	-9.3	103	0.00
105	T	3,3'-Dichlorobenzidine		0.430	0.500	-16.3	100	0.00
106	T	Chrysene		1.276	1.383	-8.4	102	0.00
107	T	Bis(2-ethylhexyl)phthalate	*	5.000	5.140	-2.8	103	0.00
108	T	Di-n-octylphthalate	*	5.000	4.740	5.2	99	0.00
109	T	Benzo(b)fluoranthene		1.178	1.306	-10.9	101	0.00
110	T	Benzo(k)fluoranthene		1.154	1.298	-12.5	101	0.00
111	T	Benzo(a)pyrene		1.025	1.213	-18.3	106	-0.01
112	I	IS1_Perylene-d12		1.000	1.000	0.0	84	0.00
113	T	Indeno(1,2,3-cd)pyrene		0.952	1.196	-25.6#	113	-0.01
114	T	Dibenzo(a,h)anthracene		0.953	1.178	-23.6#	103	-0.01
115	T	Benzo(ghi)perylene		0.928	1.074	-15.7	103	-0.01

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	48133	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 92.47%			
34) IS1_Naphthalene-d8	7.957	136	179971	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 94.55%			
62) IS1_Acenaphthene-d10	9.727	164	110910	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 89.47%			
87) IS1_Phenanthrene-d10	11.169	188	227716	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 90.27%			
103) IS1_Chrysene-d12	13.833	240	201209	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 86.01%			
112) IS1_Perylene-d12	15.315	264	202785	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 84.12%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.687	112	68980	5.362	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 268.10%#			
7) Phenol-d6	6.157	99	86386	5.431	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 271.55%#			
19) Nitrobenzene-d5	7.181	82	74359	5.306	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 530.60%#			
45) 2-Fluorobiphenyl	9.080	172	208717	5.356	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 535.60%#			
78) 2,4,6-Tribromophenol	10.498	330	27761	5.871	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 293.55%#			
95) 4-Terphenyl-d14	12.763	244	272131	5.463	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 546.30%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.263	74	46190	5.454	ug/ml#	68
3) Pyridine	2.293	79	75290	5.217	ug/ml#	59
5) Aniline	6.128	93	112111	5.439	ug/ml	97
6) 2-Chlorophenol	6.269	128	75656	5.336	ug/ml	94
8) Phenol	6.175	94	92596	5.351	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	75604	5.301	ug/ml#	85
10) 1,3-Dichlorobenzene	6.457	146	93317	5.342	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	93546	5.261	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	90658	5.284	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
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Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	64368	5.347	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	104198	5.335	ug/ml#	46
15) 2-Methylphenol	6.904	108	66691	5.377	ug/ml	99
16) Hexachloroethane	7.122	117	34991	5.336	ug/ml#	61
17) n-Nitrosodi-n-propylamine	7.057	70	56436	5.334	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.086	108	71562	5.484	ug/ml	98
20) Nitrobenzene	7.204	77	75830	5.265	ug/ml	98
21) Isophorone	7.481	82	152062	5.470	ug/ml	97
22) 2-Nitrophenol	7.563	139	30029	4.680	ug/ml#	92
23) 2,4-Dimethylphenol	7.657	107	67410	5.150	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	98786	5.446	ug/ml	99
25) 2,4-Dichlorophenol	7.828	162	72592	5.515	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.910	180	84896	5.351	ug/ml	97
35) Naphthalene	7.975	128	234099	5.225	ug/ml	99
36) Benzoic Acid	7.751	105	37692	4.821	ug/ml	97
37) 4-Chloroaniline	8.057	65	30505	5.397	ug/ml	91
38) Hexachlorobutadiene	8.145	225	51724	5.458	ug/ml	98
39) p-Chloro-m-cresol	8.580	107	66777	5.450	ug/ml	98
40) 2-Methylnaphthalene	8.698	142	166439	5.374	ug/ml	94
41) 1-Methylnaphthalene	8.792	115	56538	5.353	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	50620	5.482	ug/ml	99
43) 2,4,6-Trichlorophenol	8.992	196	58438	5.485	ug/ml	99
44) 2,4,5-Trichlorophenol	9.022	196	62619	5.542	ug/ml	98
46) 2-Chloronaphthalene	9.175	162	170033	5.283	ug/ml	96
47) 2-Nitroaniline	9.292	138	39012	5.011	ug/ml	92
48) 1,4-Dinitrobenzene	9.422	168	17114	4.373	ug/ml	82
49) 1,3-Dinitrobenzene	9.498	168	21913	4.480	ug/ml#	1
50) Dimethyl phthalate	9.492	163	202629	5.370	ug/ml#	99
51) Acenaphthylene	9.580	152	267479	5.507	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	37241	5.426	ug/ml#	84
53) 1,2-Dinitrobenzene	9.580	168	15743	5.134	ug/ml#	1
63) 3-Nitroaniline	9.692	138	39753	5.525	ug/ml	98
64) Acenaphthene	9.757	154	161236	5.379	ug/ml	92
65) 2,4-Dinitrophenol	9.798	184	15506	4.210	ug/ml	90
66) Dibenzofuran	9.927	168	266500	5.472	ug/ml	93
67) 2,4-Dinitrotoluene	9.927	165	50041	4.699	ug/ml	94
68) 4-Nitrophenol	9.880	65	32159	5.239	ug/ml#	90
69) 2,3,5,6-Tetrachlorophenol	10.022	232	52335	5.940	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	53523	6.152	ug/ml	99
71)	Diethyl phthalate	10.192	149	198362	5.497	ug/ml	97
72)	Fluorene	10.263	166	201378	5.468	ug/ml	94
73)	4-Chlorophenyl phenyl ...	10.280	204	102835	5.519	ug/ml	89
74)	4-Nitroaniline	10.286	138	40513	5.566	ug/ml#	85
75)	4,6-Dinitro-o-cresol	10.322	198	23532	4.232	ug/ml#	63
76)	NDPA/DPA	10.398	169	175362	5.590	ug/ml	94
77)	Azobenzene	10.433	77	199756	5.722	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.757	248	56638	5.427	ug/ml#	87
80)	Hexachlorobenzene	10.810	284	64431	5.392	ug/ml#	88
81)	Pentachlorophenol	10.998	266	37359	5.357	ug/ml	100
88)	Phenanthrene	11.192	178	311941	5.278	ug/ml	99
89)	Anthracene	11.245	178	323617	5.520	ug/ml	98
90)	Carbazole	11.410	167	287846	5.448	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	343566	5.546	ug/ml	99
92)	Fluoranthene	12.357	202	371982	5.510	ug/ml#	92
93)	Benzidine	12.504	184	214564	5.230	ug/ml#	94
94)	Pyrene	12.574	202	396732	5.493	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	132785	4.557	ug/ml	94
104)	Benzo(a)anthracene	13.821	228	366917	5.465	ug/ml	98
105)	3,3'-Dichlorobenzidine	13.821	252	125706	5.814	ug/ml#	97
106)	Chrysene	13.862	228	347792	5.420	ug/ml	97
107)	Bis(2-ethylhexyl)phtha...	13.939	149	222853	5.140	ug/ml#	95
108)	Di-n-octylphthalate	14.621	149	332901	4.740	ug/ml#	74
109)	Benzo(b)fluoranthene	14.945	252	328567	5.545	ug/ml#	94
110)	Benzo(k)fluoranthene	14.968	252	326553	5.626	ug/ml#	93
111)	Benzo(a)pyrene	15.257	252	305124	5.916	ug/ml#	94
113)	Indeno(1,2,3-cd)pyrene	16.333	276	303147M6	6.281	ug/mL	
114)	Dibenzo(a,h)anthracene	16.356	278	298480	6.178	ug/ml#	89
115)	Benzo(ghi)perylene	16.603	276	272174	5.787	ug/ml#	89

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

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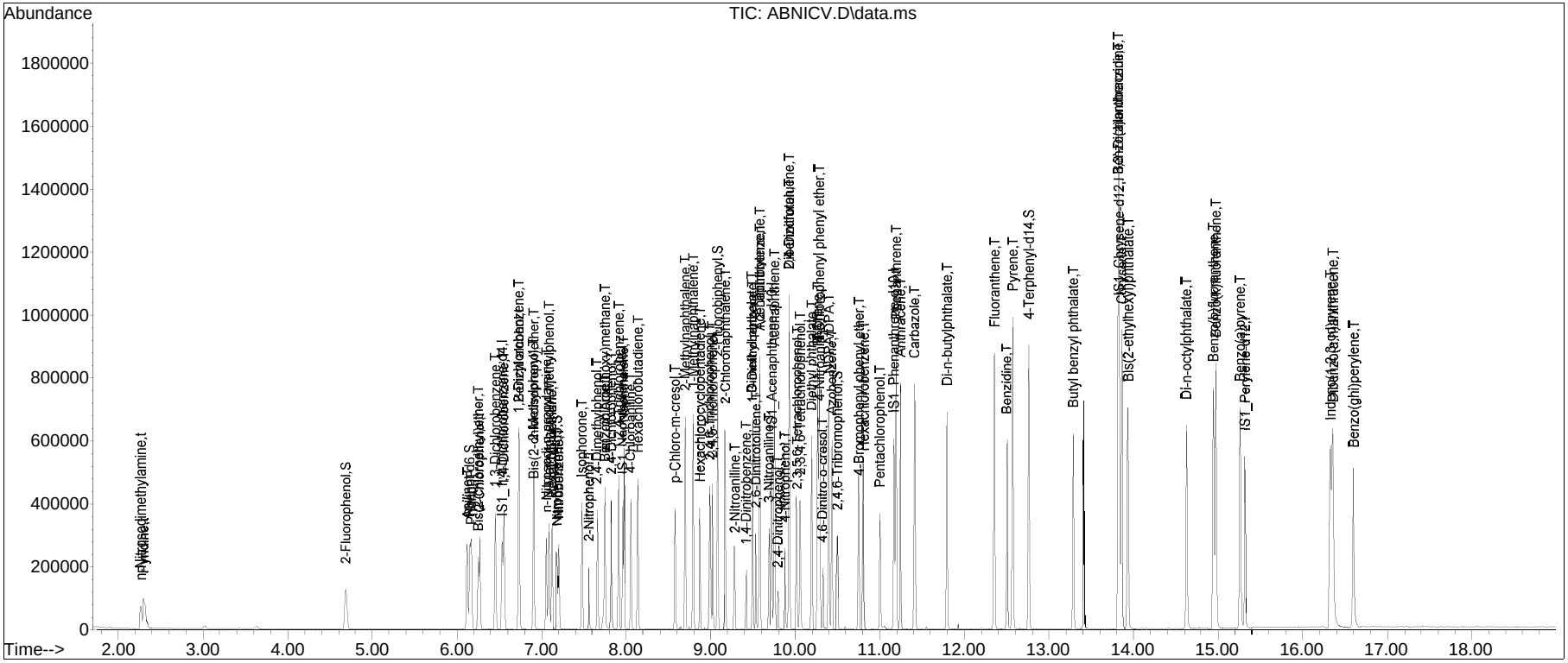
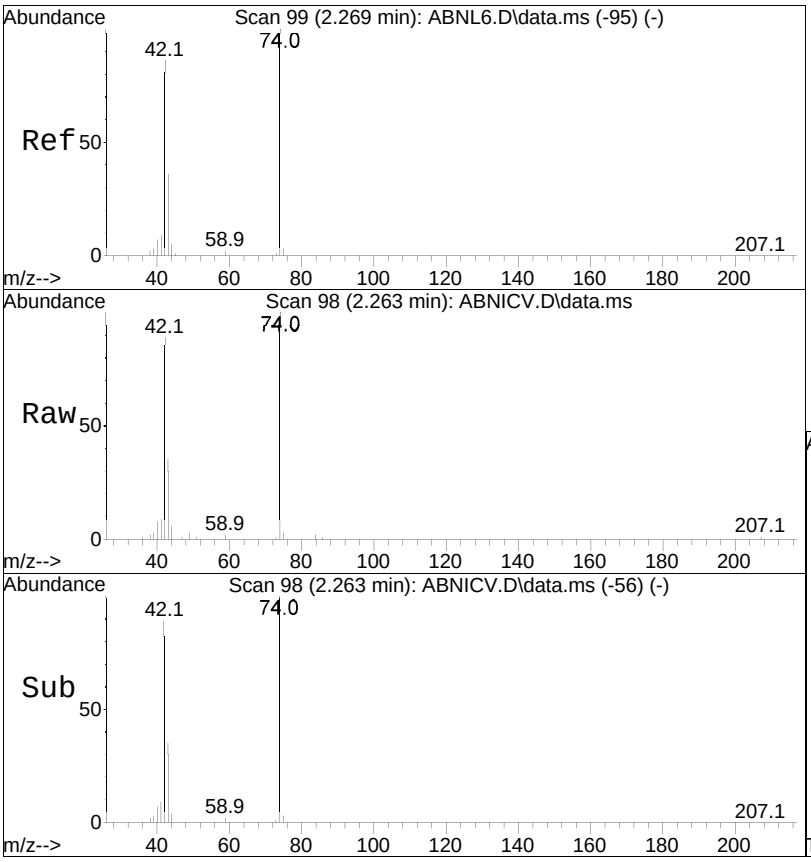
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\AP9L6.D•

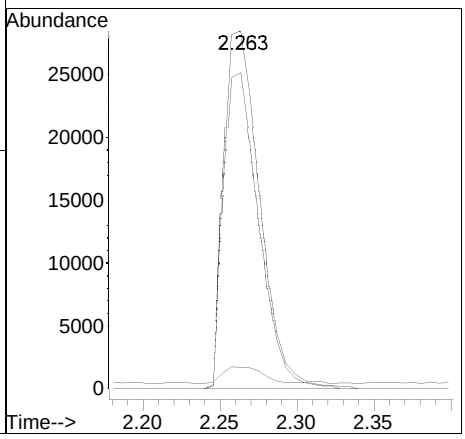


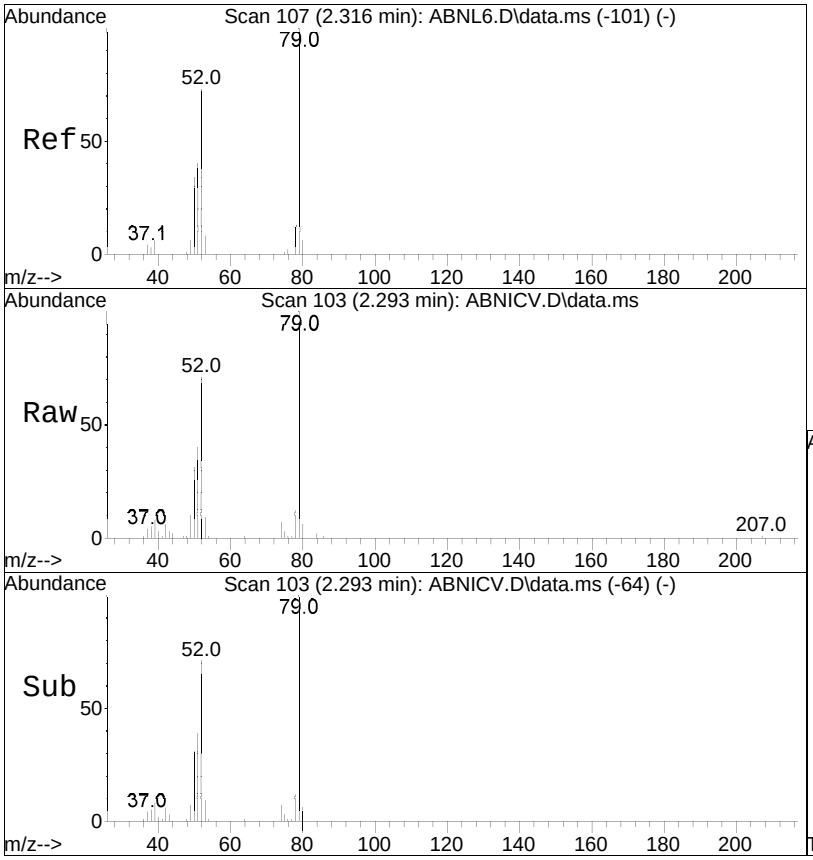


#2
n-Nitrosodimethylamine
Concen: 5.45 ug/ml
RT: 2.263 min Scan# 98
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 74 Resp: 46190

Ion	Ratio	Lower	Upper
74	100		
42	86.9	100.0	150.0#
44	5.2	6.7	10.1#

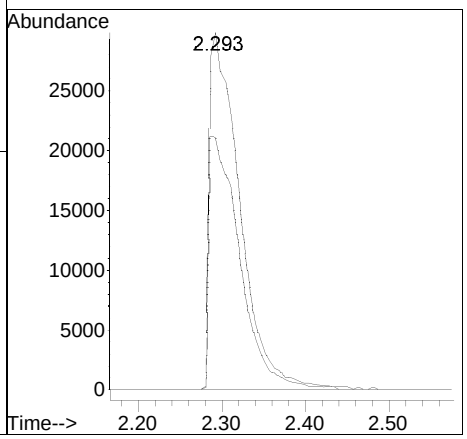


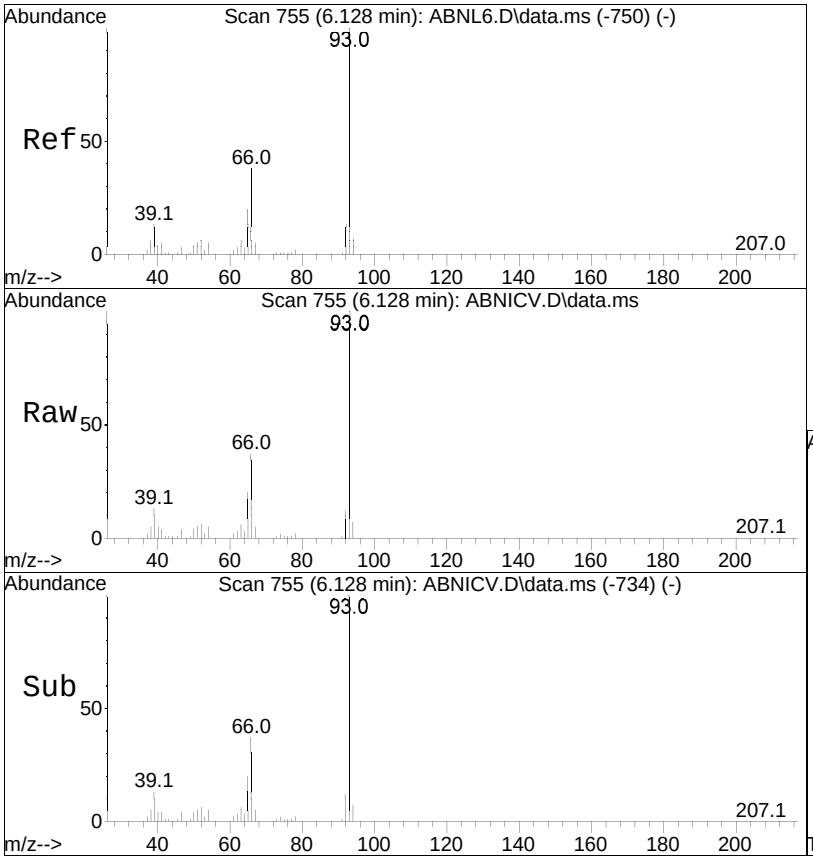


#3
Pyridine
Concen: 5.22 ug/ml
RT: 2.293 min Scan# 103
Delta R.T. -0.023 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 79 Resp: 75290

Ion	Ratio	Lower	Upper
79	100		
52	72.0	93.1	139.7#

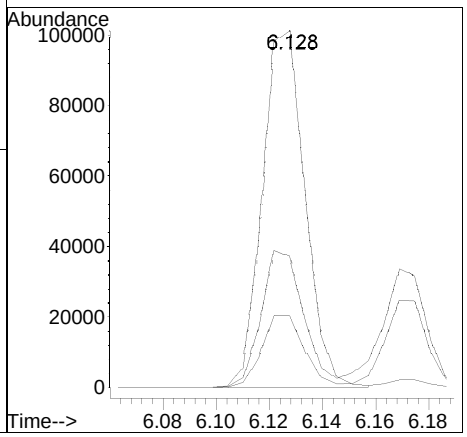


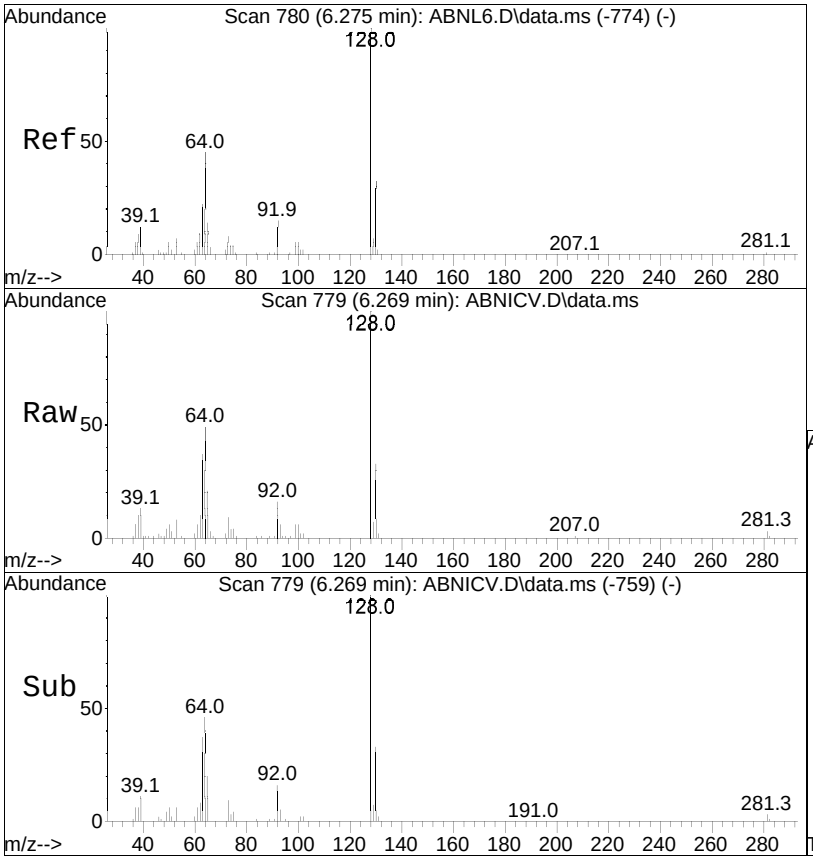


#5
Aniline
Concen: 5.44 ug/ml
RT: 6.128 min Scan# 755
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 93 Resp: 112111

Ion	Ratio	Lower	Upper
93	100		
66	38.7	32.6	49.0
65	20.3	17.6	26.4

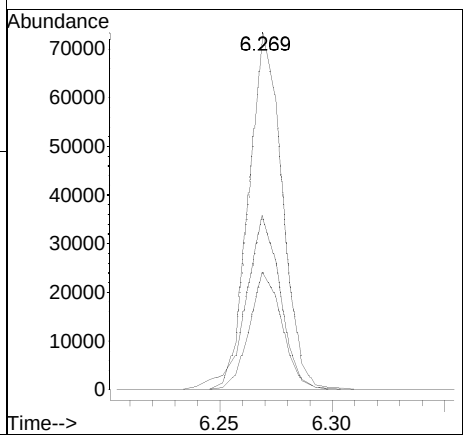


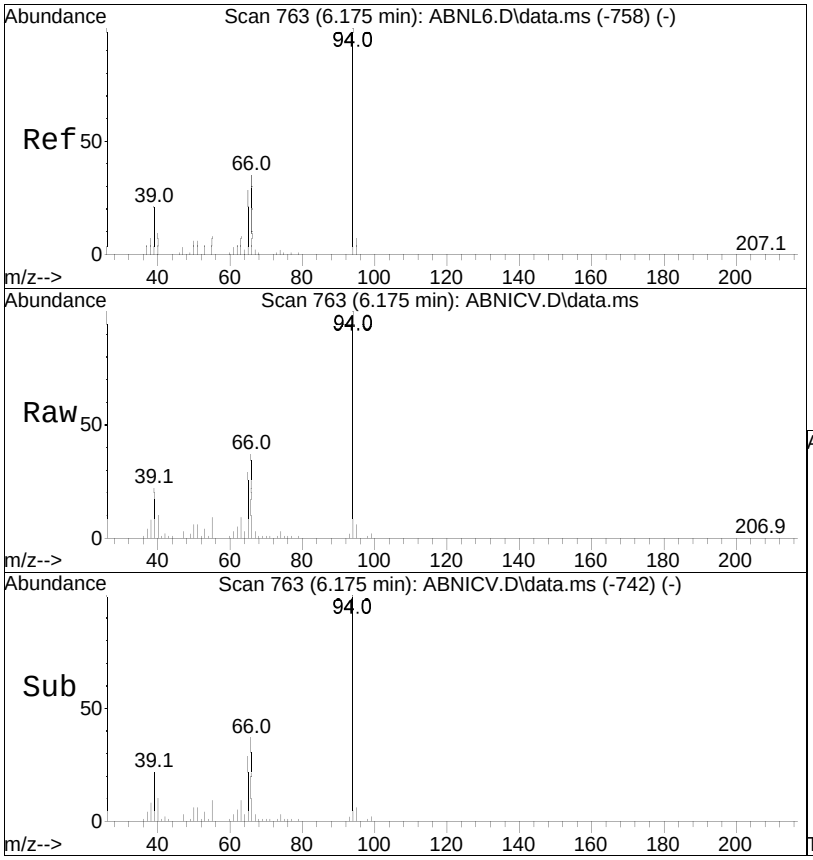


#6
2-Chlorophenol
Concen: 5.34 ug/ml
RT: 6.269 min Scan# 779
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:128 Resp: 75656

Ion	Ratio	Lower	Upper
128	100		
64	50.4	45.1	67.7
130	32.3	26.2	39.4

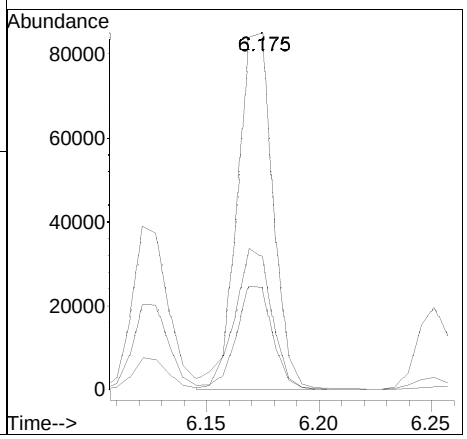


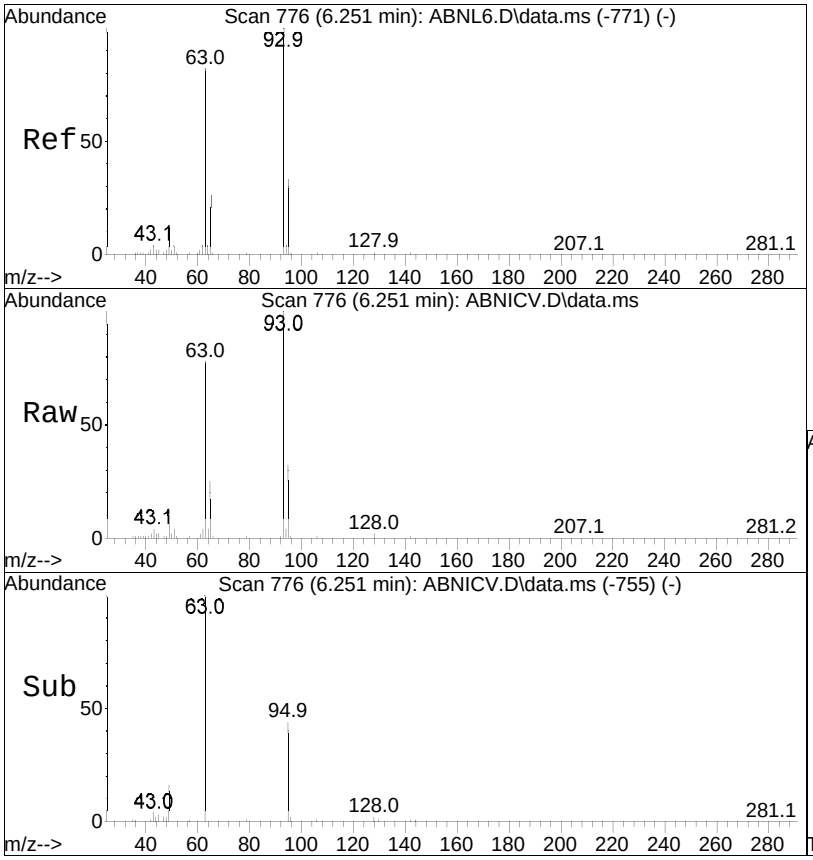


#8
Phenol
Concen: 5.35 ug/ml
RT: 6.175 min Scan# 763
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 94 Resp: 92596

Ion	Ratio	Lower	Upper
94	100		
65	30.0	26.0	39.0
66	42.7	33.8	50.8

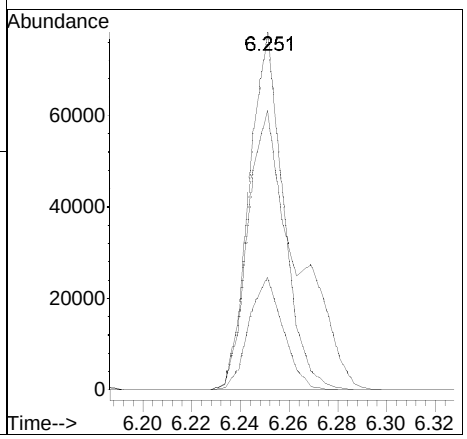


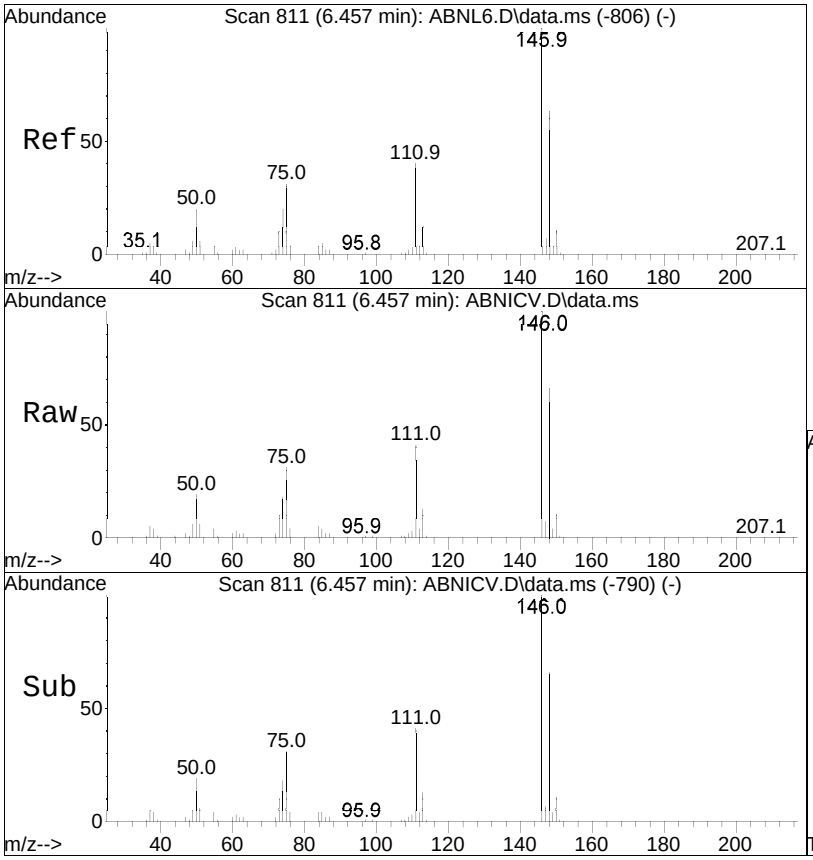


#9
Bis(2-chloroethyl)ether
Concen: 5.30 ug/ml
RT: 6.251 min Scan# 776
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 93 Resp: 75604

Ion	Ratio	Lower	Upper
93	100		
63	112.3	74.6	111.8#
95	31.8	25.9	38.9

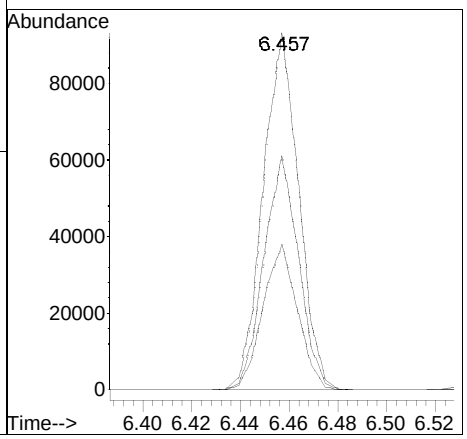


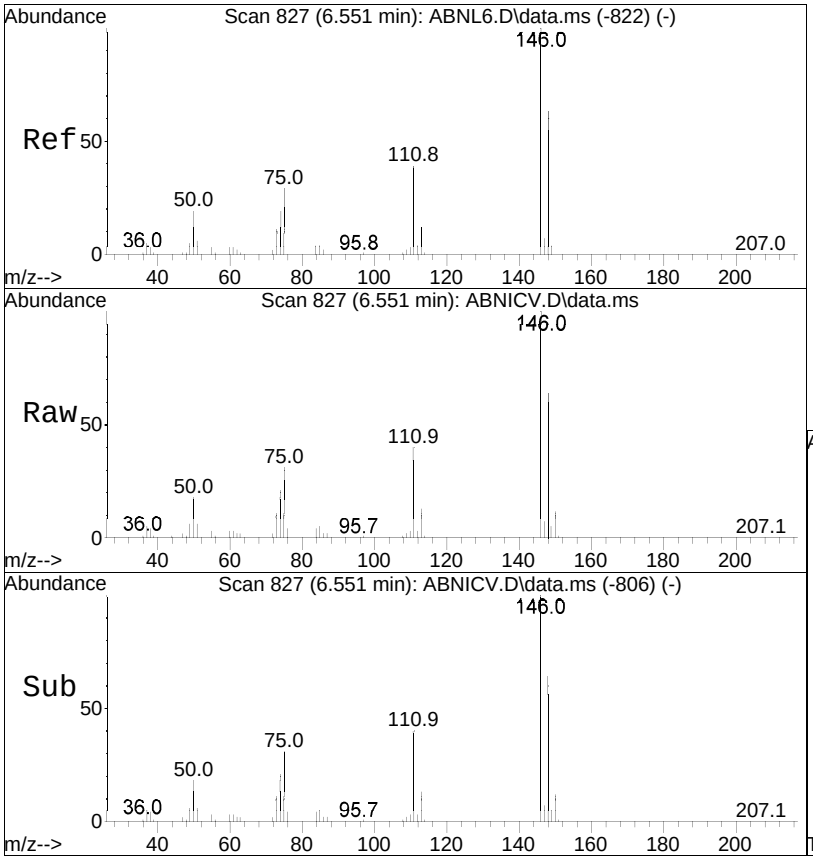


#10
1,3-Dichlorobenzene
Concen: 5.34 ug/ml
RT: 6.457 min Scan# 811
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:146 Resp: 93317

Ion	Ratio	Lower	Upper
146	100		
111	39.9	34.3	51.5
148	64.2	50.8	76.2

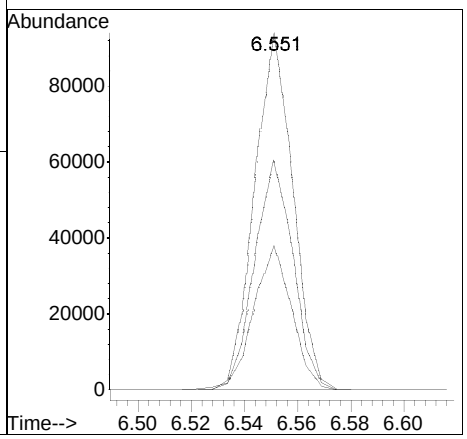


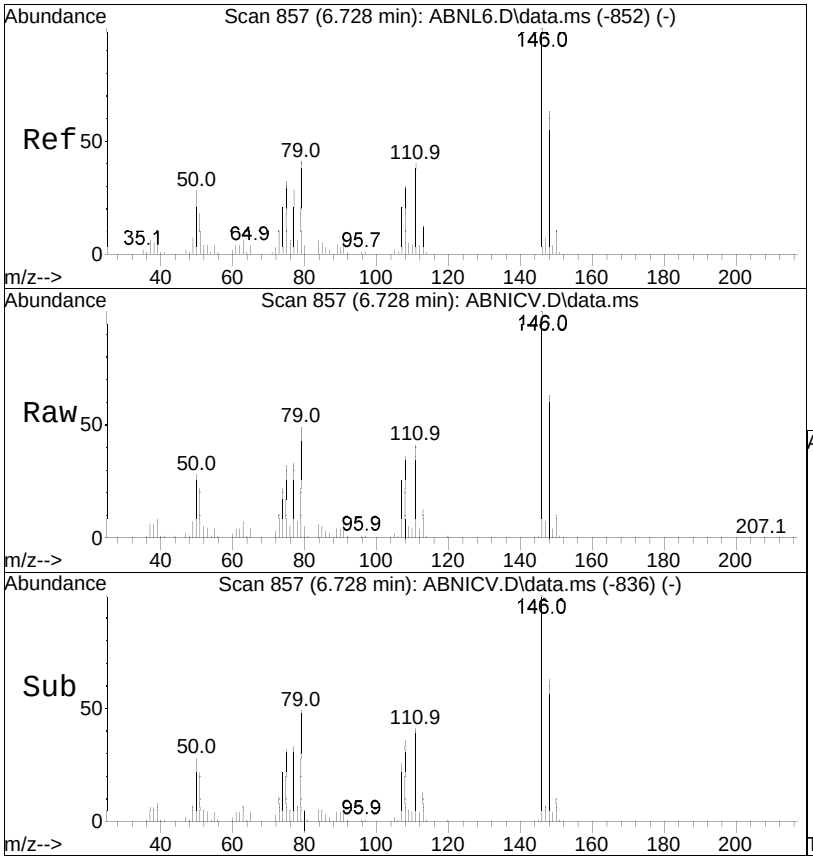


#11
1,4-Dichlorobenzene
Concen: 5.26 ug/ml
RT: 6.551 min Scan# 827
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:146 Resp: 93546

Ion	Ratio	Lower	Upper
146	100		
148	64.5	50.7	76.1
111	40.3	33.4	50.0

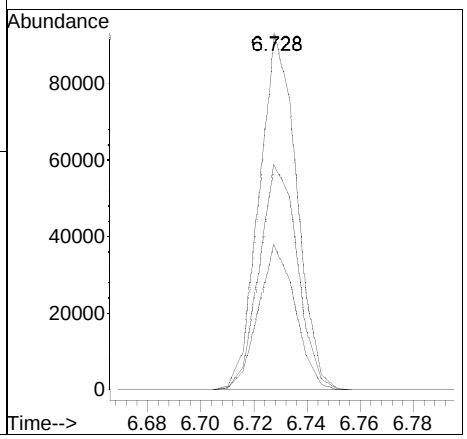


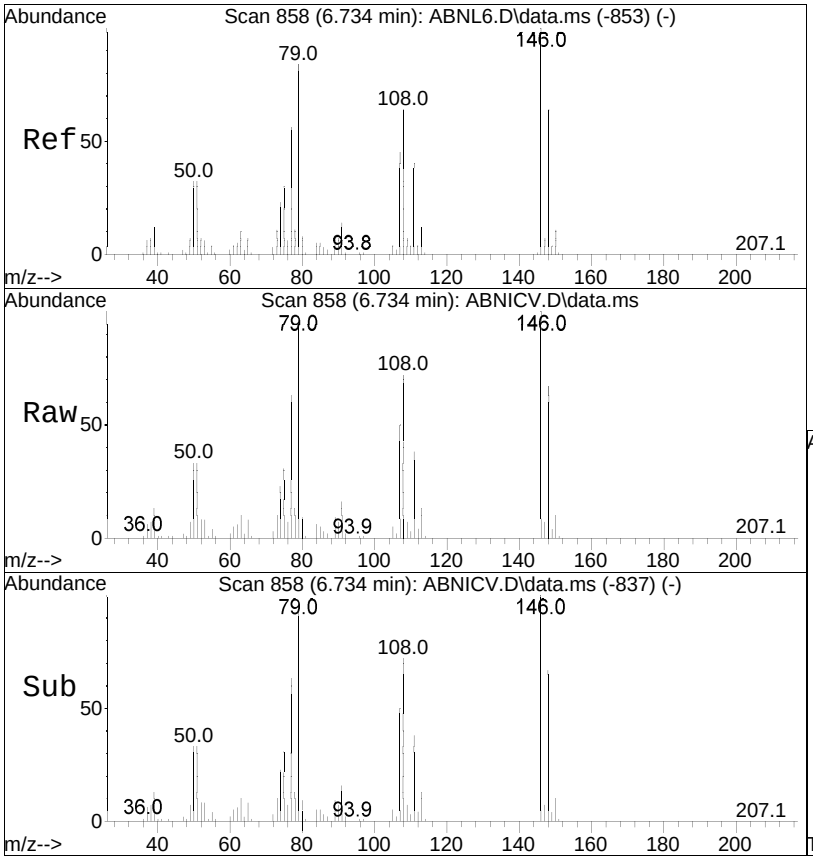


#12
1,2-Dichlorobenzene
Concen: 5.28 ug/ml
RT: 6.728 min Scan# 857
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:146 Resp: 90658

Ion	Ratio	Lower	Upper
146	100		
111	40.3	34.6	52.0
148	64.3	50.2	75.4

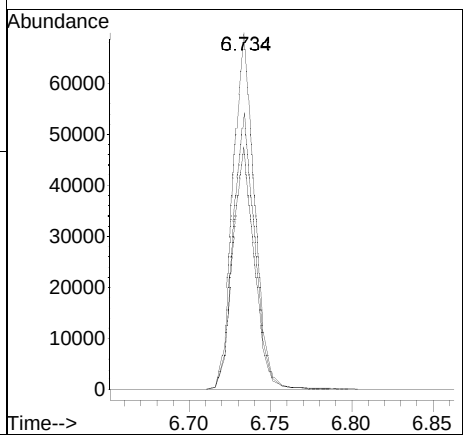


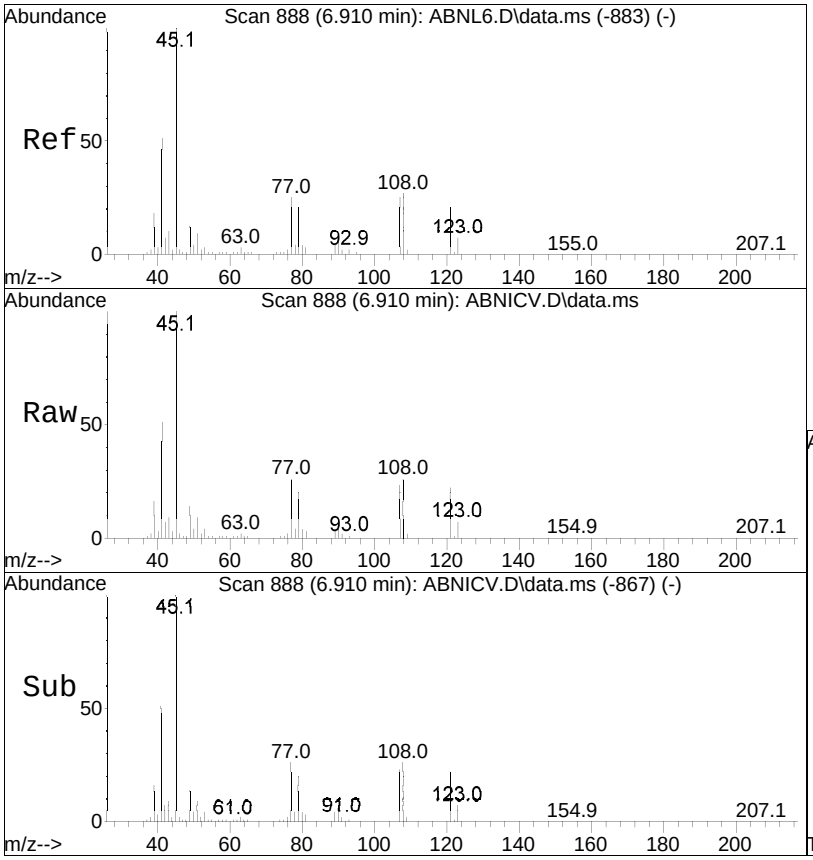


#13
Benzyl alcohol
Concen: 5.35 ug/ml
RT: 6.734 min Scan# 858
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 79 Resp: 64368

Ion	Ratio	Lower	Upper
79	100		
77	68.0	54.9	82.3
108	77.1	63.1	94.7

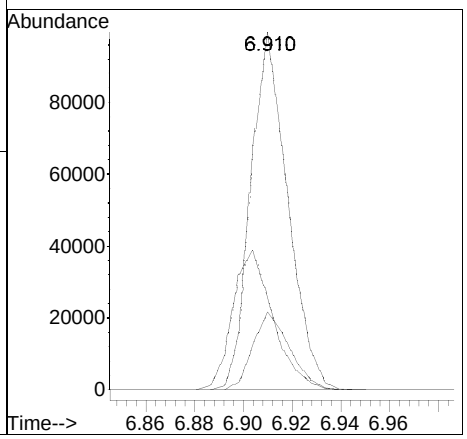


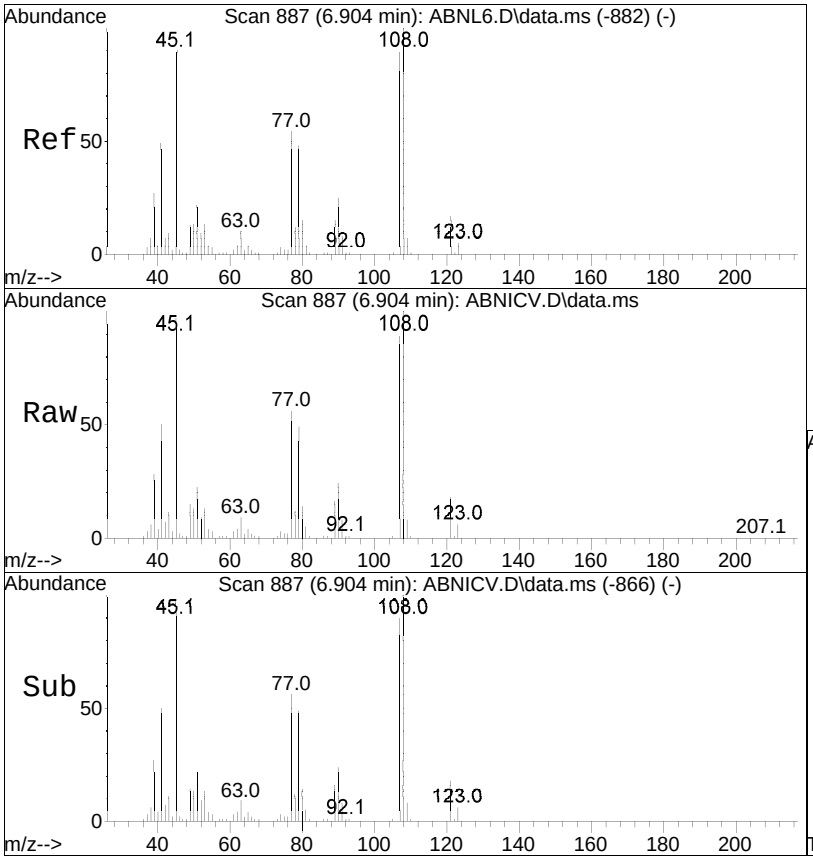


#14
Bis(2-chloroisopropyl)ether
Concen: 5.34 ug/ml
RT: 6.910 min Scan# 888
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 45 Resp: 104198

Ion	Ratio	Lower	Upper
45	100		
121	21.6	9.8	14.6#
77	43.0	6.1	9.1#

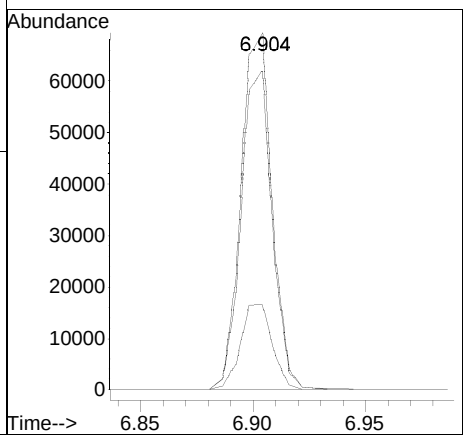


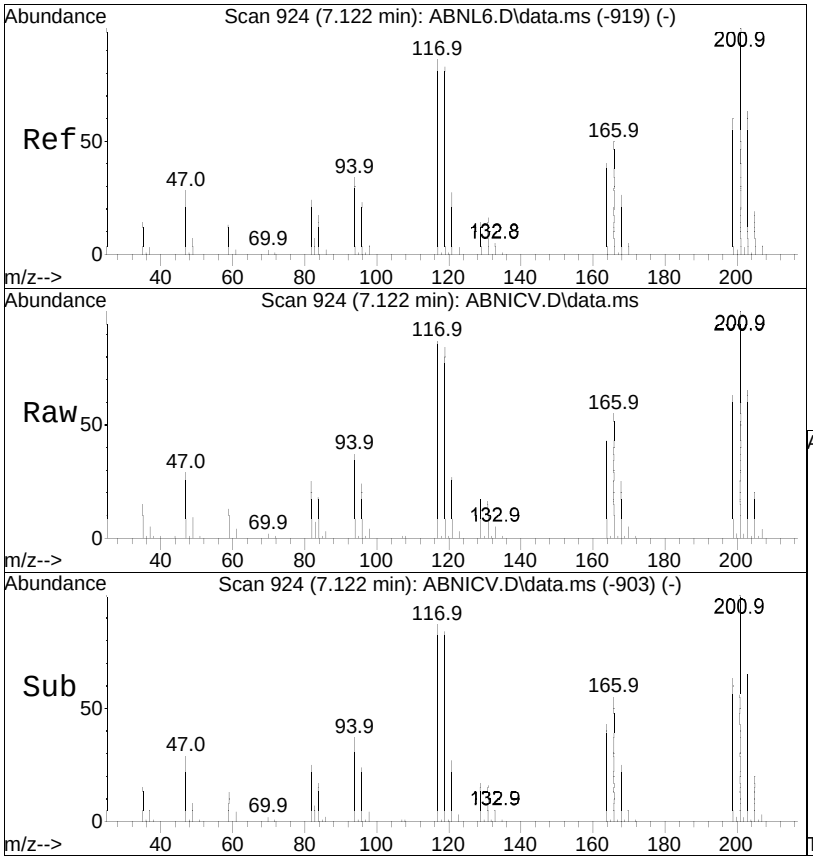


#15
2-Methylphenol
Concen: 5.38 ug/ml
RT: 6.904 min Scan# 887
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:108 Resp: 66691

Ion	Ratio	Lower	Upper
108	100		
107	89.0	70.7	106.1
90	24.3	18.7	28.1

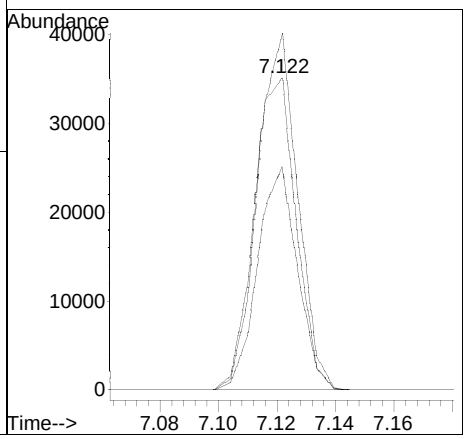


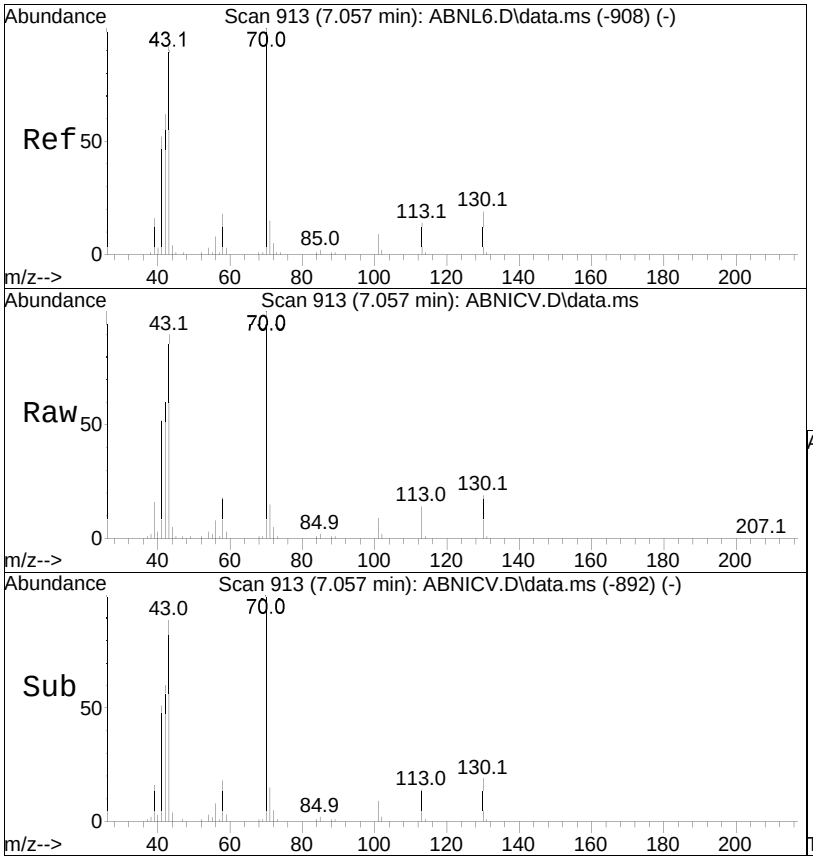


#16
Hexachloroethane
Concen: 5.34 ug/ml
RT: 7.122 min Scan# 924
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:117 Resp: 34991

Ion	Ratio	Lower	Upper
117	100		
201	109.1	58.6	87.8#
199	67.7	36.9	55.3#

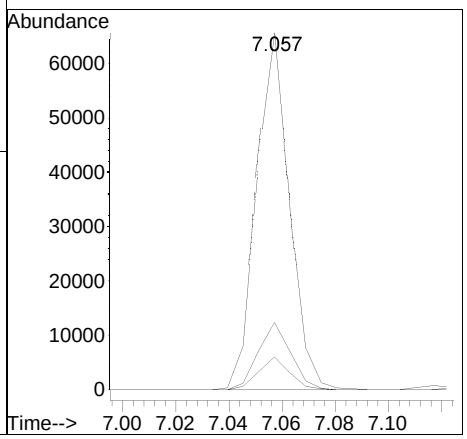


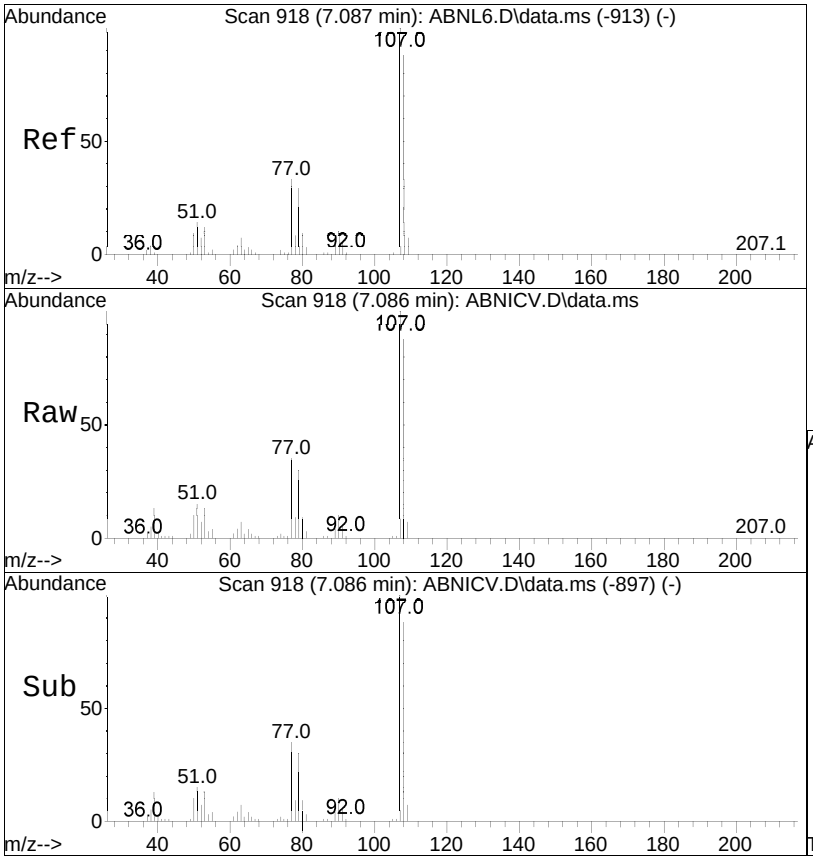


#17
n-Nitrosodi-n-propylamine
Concen: 5.33 ug/ml
RT: 7.057 min Scan# 913
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 70 Resp: 56436

Ion	Ratio	Lower	Upper
70	100		
130	18.5	18.2	27.4
101	8.7	7.8	11.8

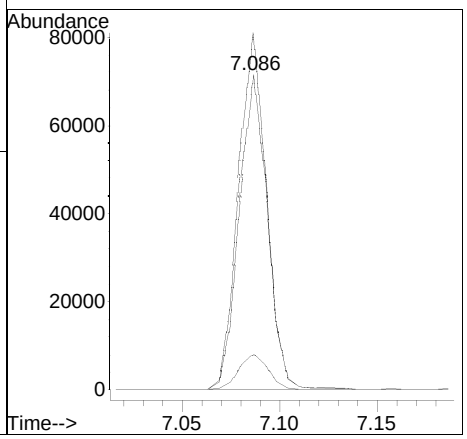


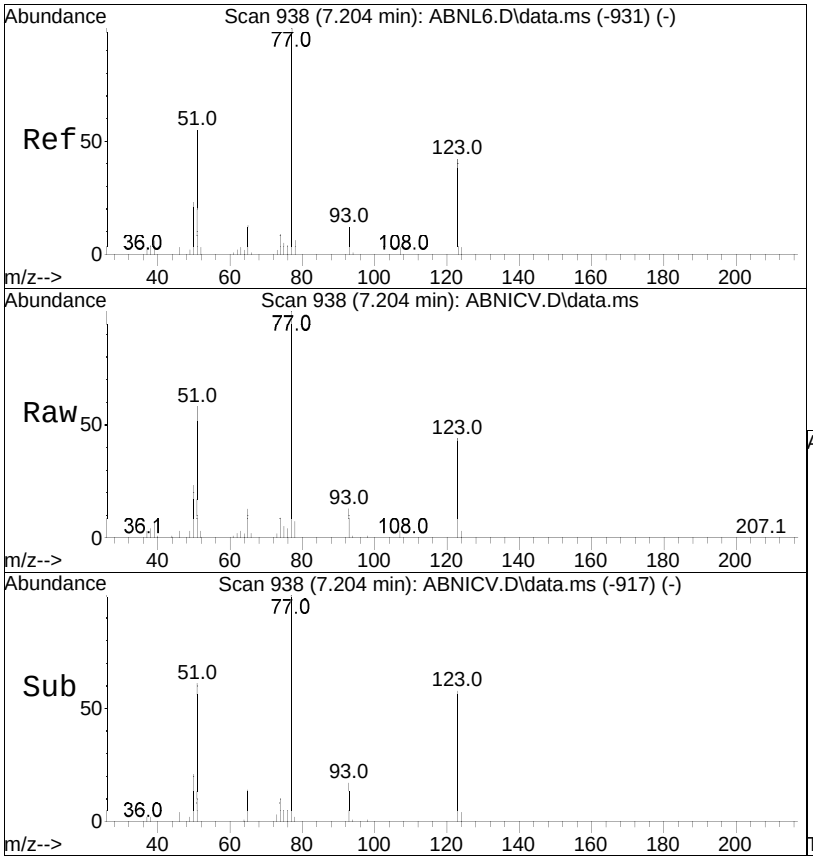


#18
3-Methylphenol/4-Methylphenol
Concen: 5.48 ug/ml
RT: 7.086 min Scan# 918
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:108 Resp: 71562

Ion	Ratio	Lower	Upper
108	100		
107	113.0	88.6	132.8
90	11.6	8.8	13.2

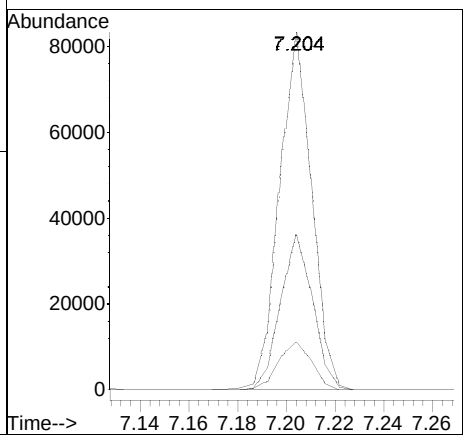


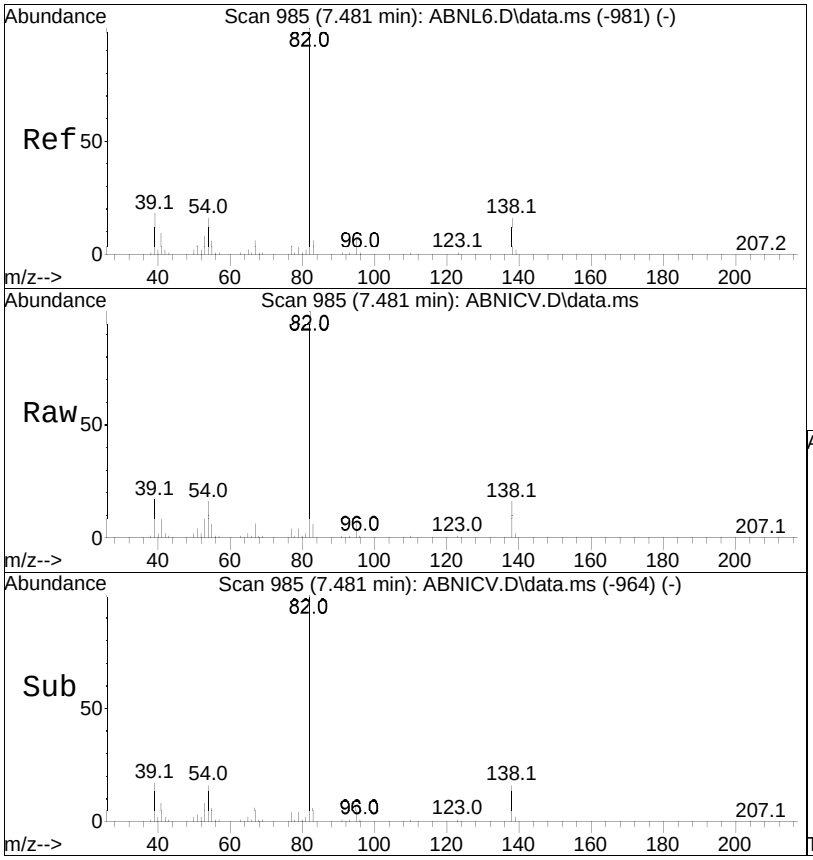


#20
Nitrobenzene
Concen: 5.27 ug/ml
RT: 7.204 min Scan# 938
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 77 Resp: 75830

Ion	Ratio	Lower	Upper
77	100		
123	43.6	36.3	54.5
65	14.1	11.6	17.4

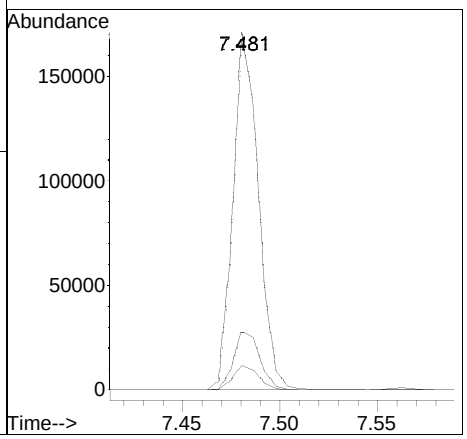


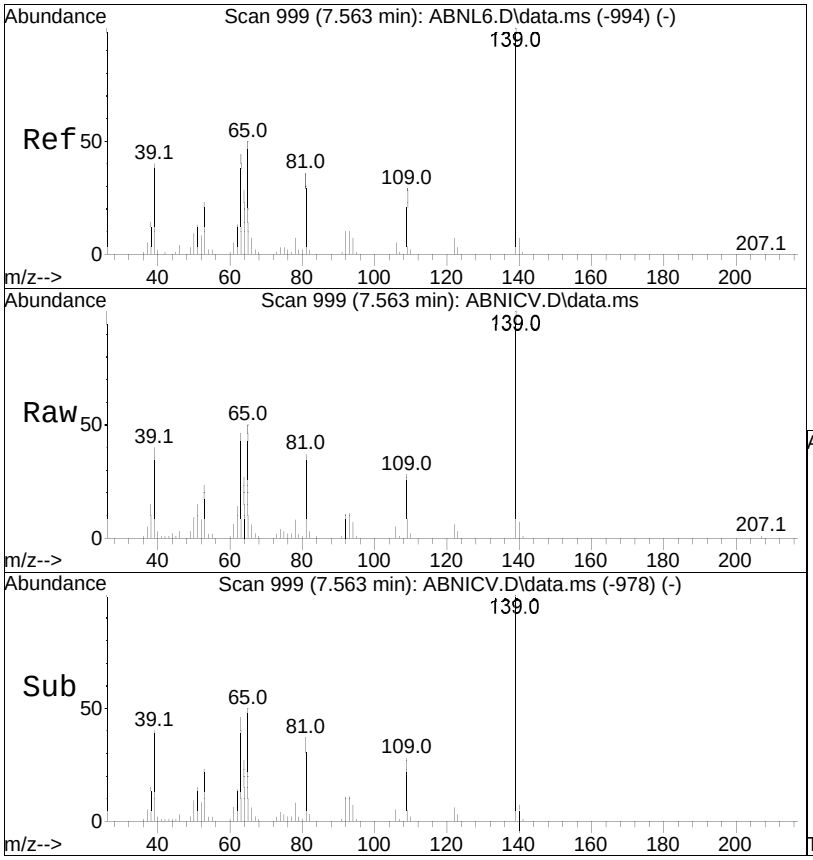


#21
Isophorone
Concen: 5.47 ug/ml
RT: 7.481 min Scan# 985
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 82 Resp: 152062

Ion	Ratio	Lower	Upper
82	100		
138	16.9	14.7	22.1
95	6.9	5.2	7.8

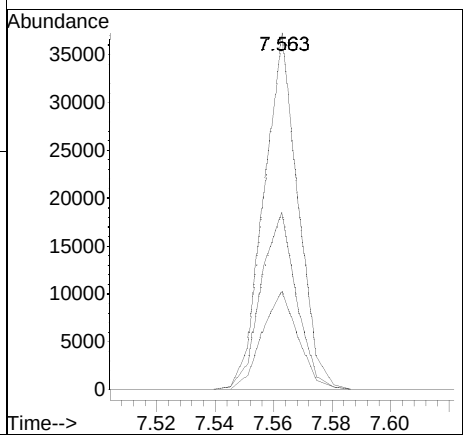


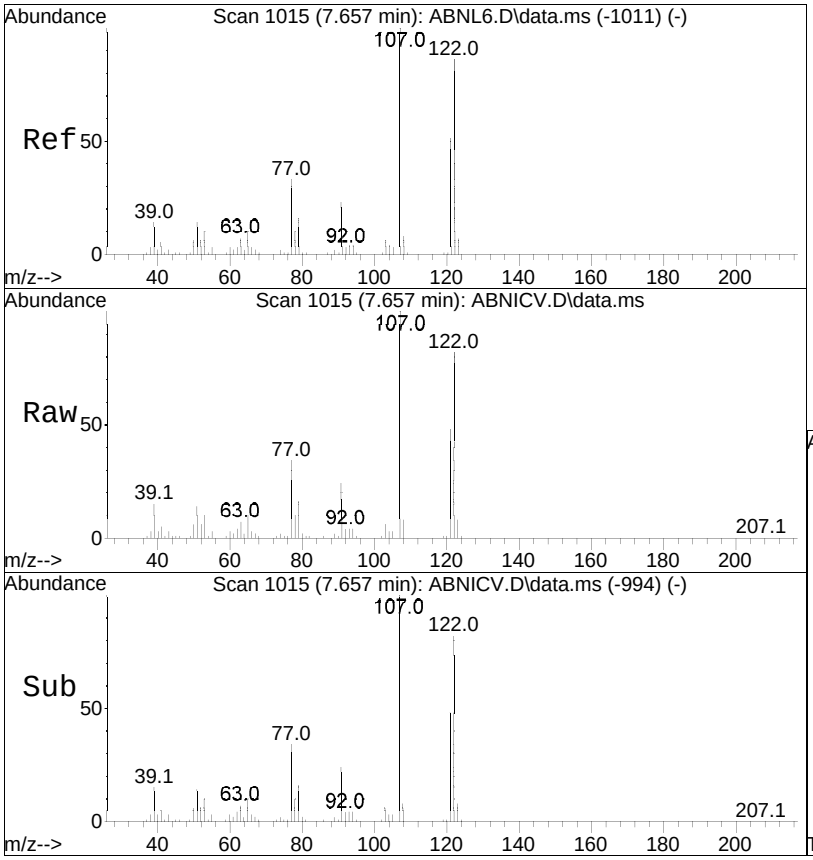


#22
2-Nitrophenol
Concen: 4.68 ug/ml
RT: 7.563 min Scan# 999
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:139 Resp: 30029

Ion	Ratio	Lower	Upper
139	100		
109	29.3	19.4	29.0#
65	51.9	46.1	69.1

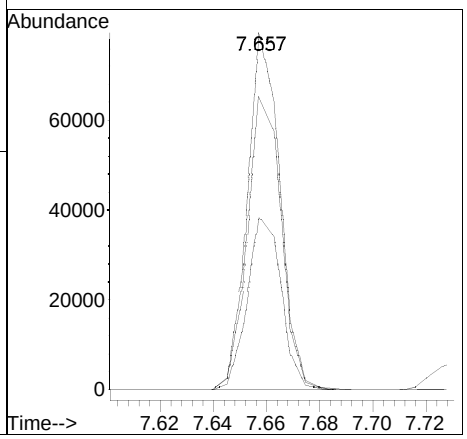


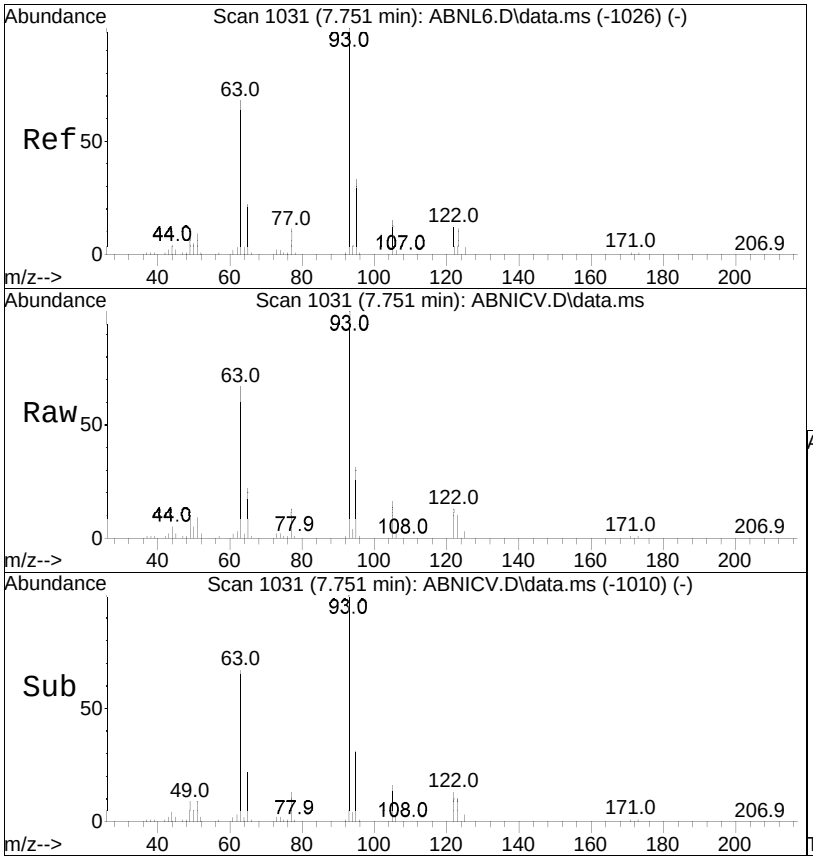


#23
2,4-Dimethylphenol
Concen: 5.15 ug/ml
RT: 7.657 min Scan# 1015
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:107 Resp: 67410

Ion	Ratio	Lower	Upper
107	100		
121	50.6	40.0	60.0
122	85.3	70.2	105.4

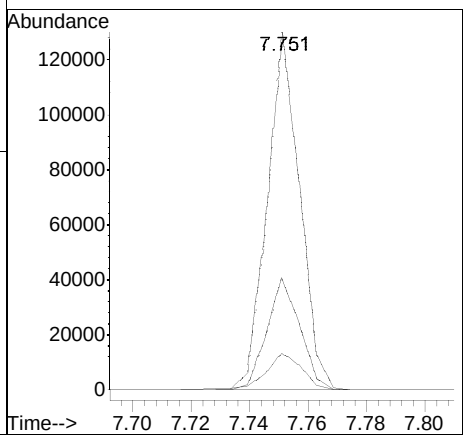


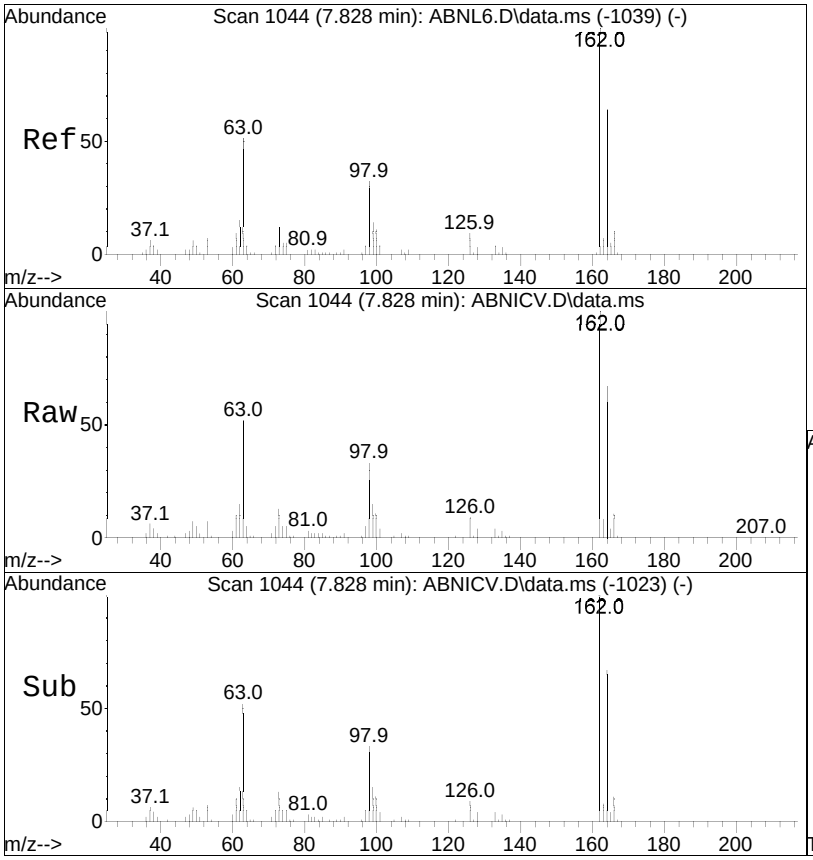


#24
Bis(2-chloroethoxy)methane
Concen: 5.45 ug/ml
RT: 7.751 min Scan# 1031
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 93 Resp: 98786

Ion	Ratio	Lower	Upper
93	100		
95	32.0	25.8	38.8
123	11.7	10.1	15.1

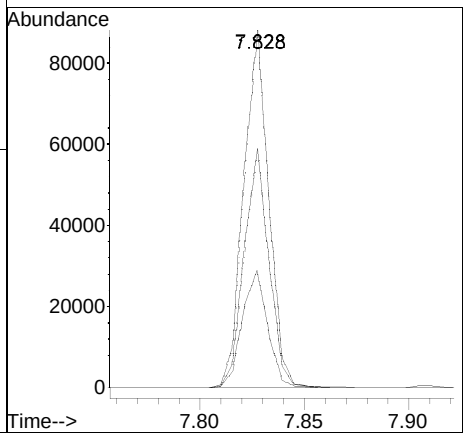


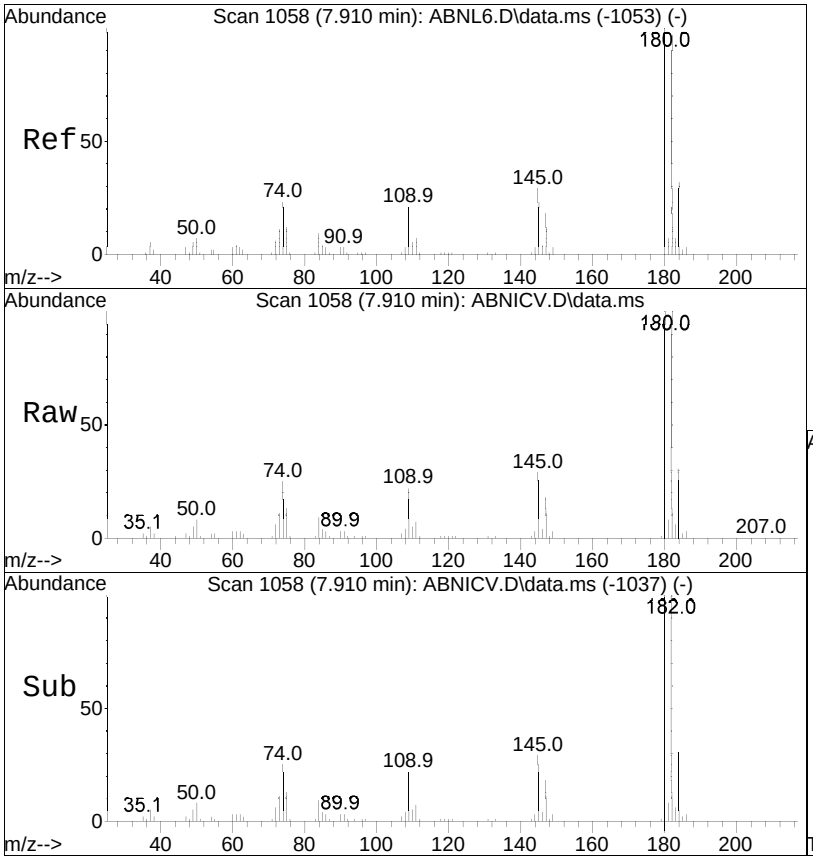


#25
2,4-Dichlorophenol
Concen: 5.52 ug/ml
RT: 7.828 min Scan# 1044
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:162 Resp: 72592

Ion	Ratio	Lower	Upper
162	100		
164	66.1	51.0	76.4
98	33.5	32.2	48.2

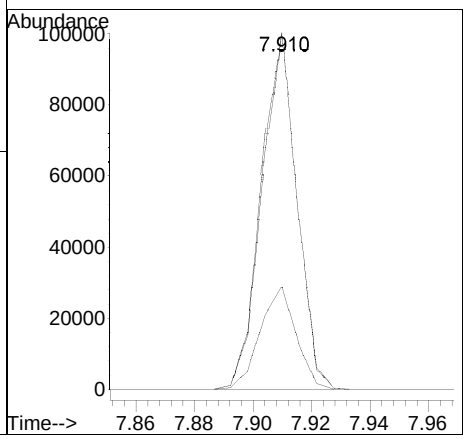


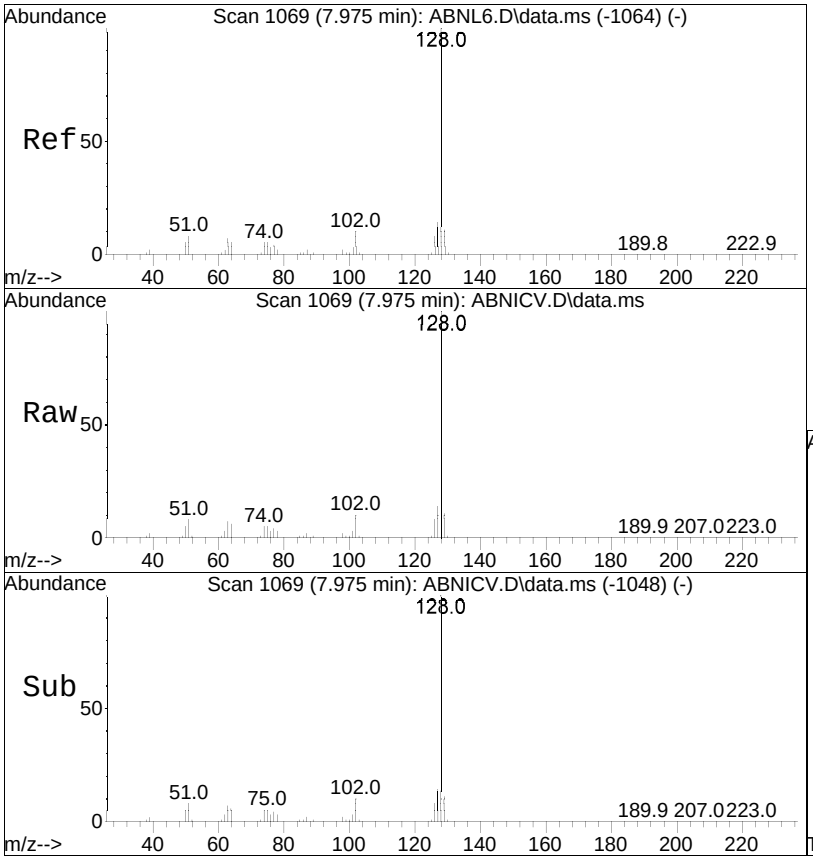


#26
1,2,4-Trichlorobenzene
Concen: 5.35 ug/ml
RT: 7.910 min Scan# 1058
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:180 Resp: 84896

Ion	Ratio	Lower	Upper
180	100		
182	97.4	76.0	114.0
145	29.0	25.7	38.5

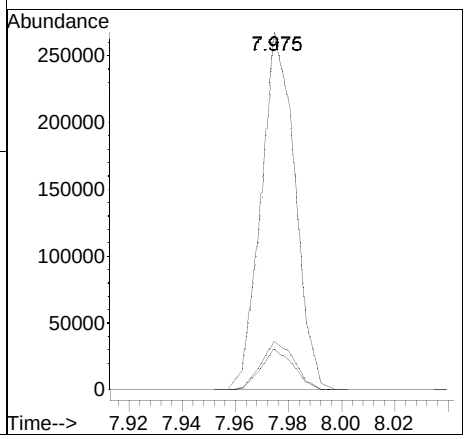


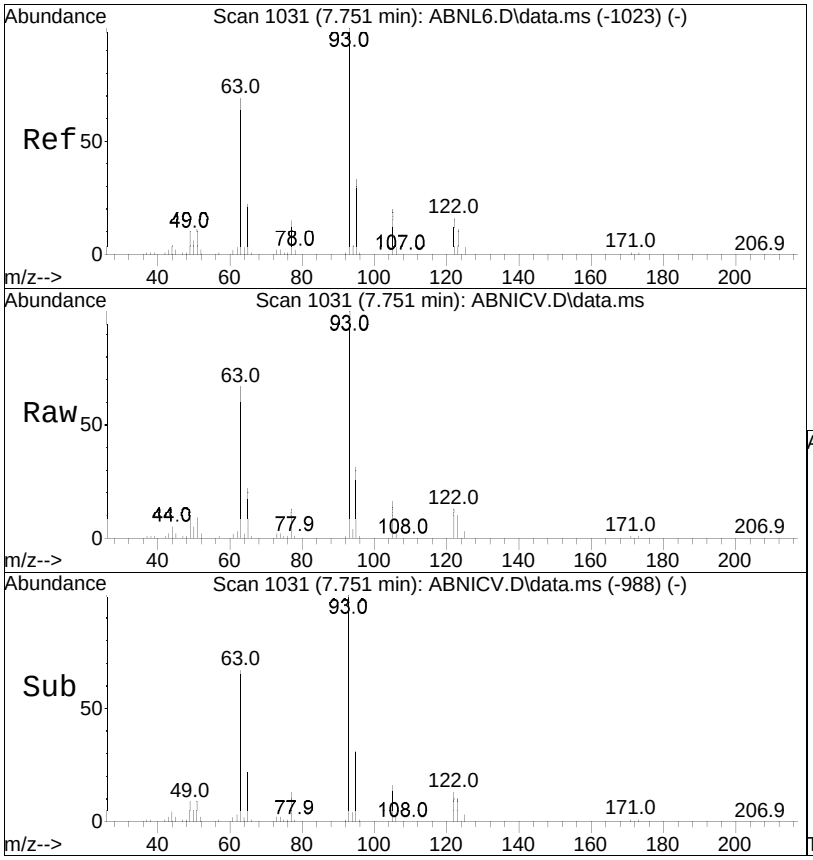


#35
Naphthalene
Concen: 5.22 ug/ml
RT: 7.975 min Scan# 1069
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:128 Resp: 234099

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.7	13.1
127	13.6	10.3	15.5

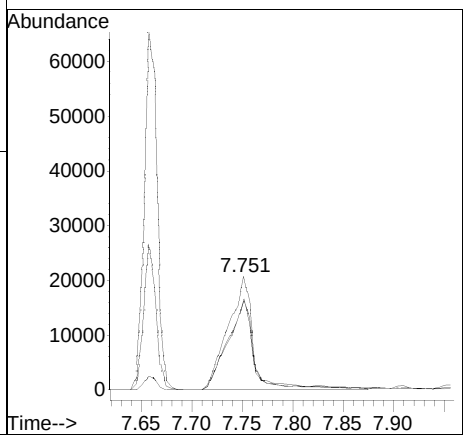


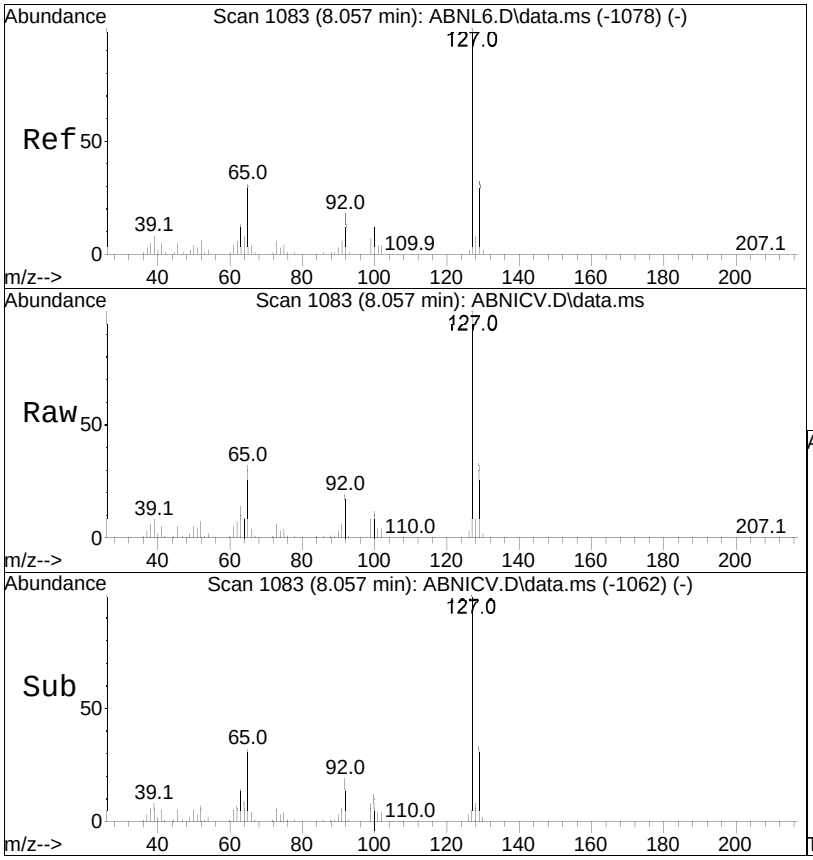


#36
Benzoic Acid
Concen: 4.82 ug/ml
RT: 7.751 min Scan# 1031
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:105 Resp: 37692

Ion	Ratio	Lower	Upper
105	100		
122	80.2	59.9	89.9
77	75.3	60.1	90.1

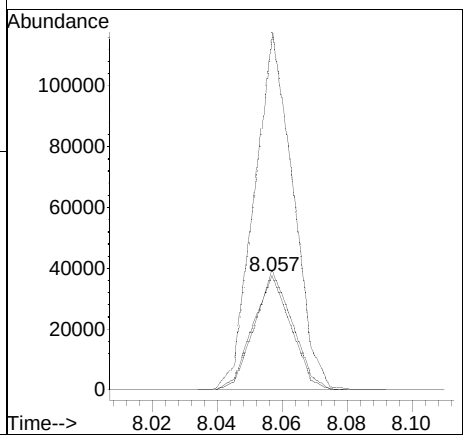


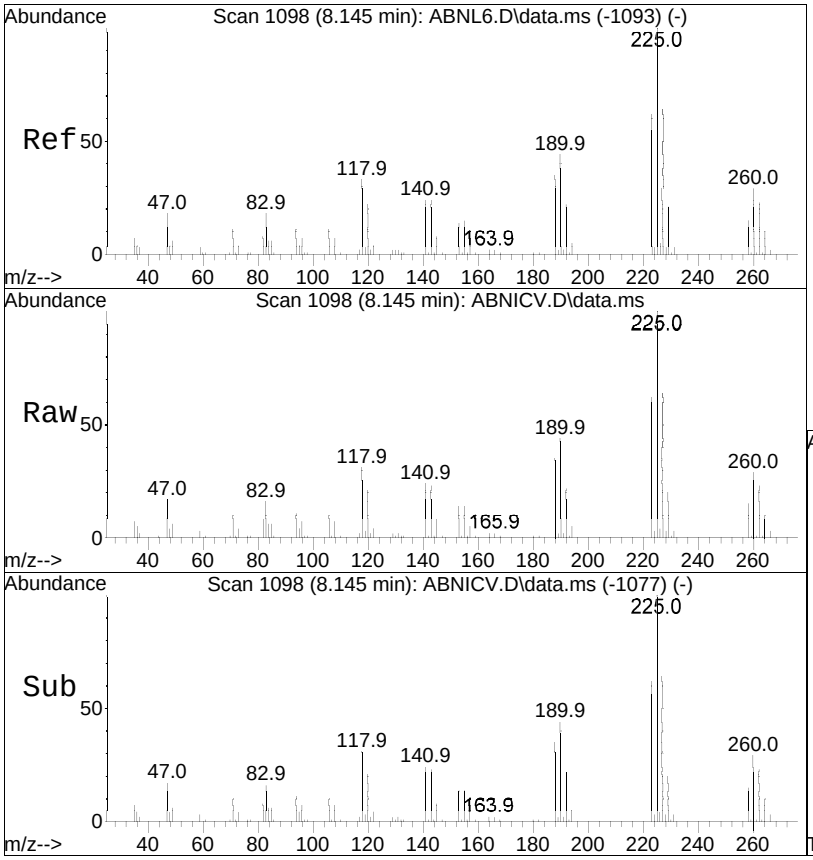


#37
4-Chloroaniline
Concen: 5.40 ug/ml
RT: 8.057 min Scan# 1083
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 65 Resp: 30505

Ion	Ratio	Lower	Upper
65	100		
127	316.4	237.6	356.4
129	103.0	76.3	114.5

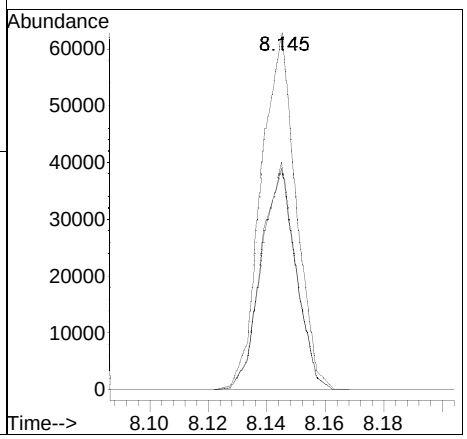


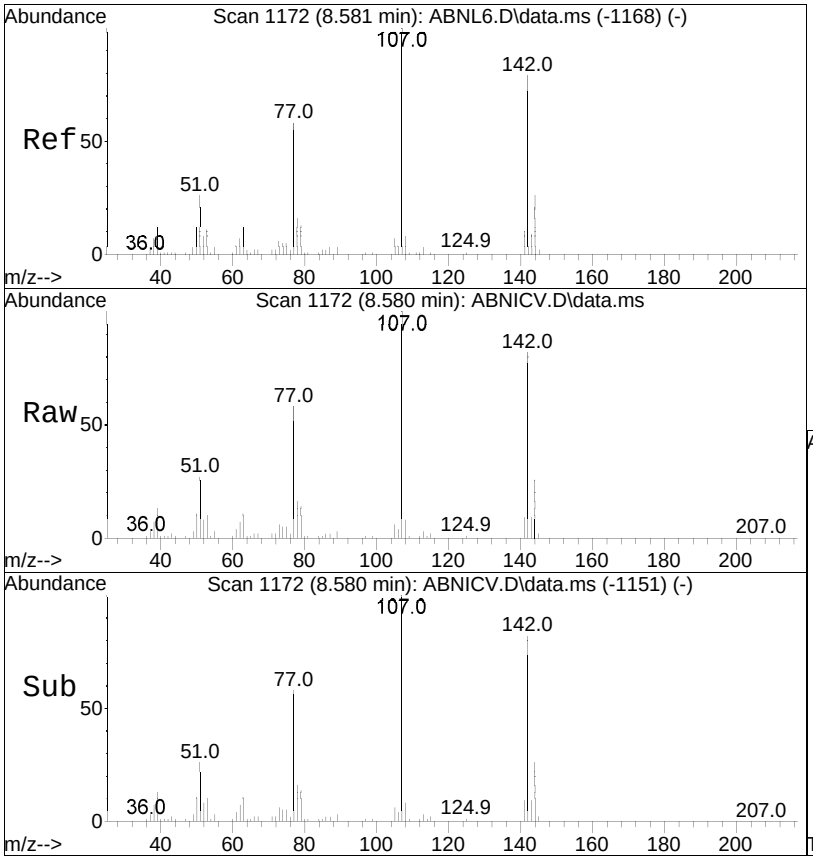


#38
Hexachlorobutadiene
Concen: 5.46 ug/ml
RT: 8.145 min Scan# 1098
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:225 Resp: 51724

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.3	75.5
227	62.7	52.2	78.2

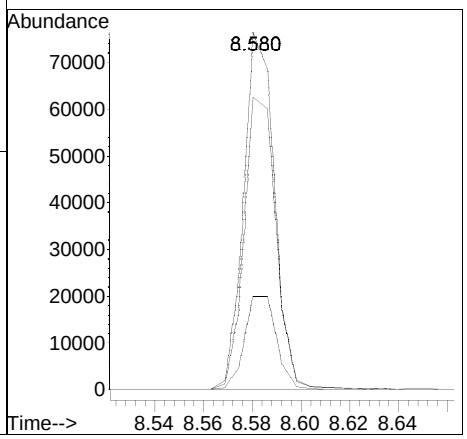


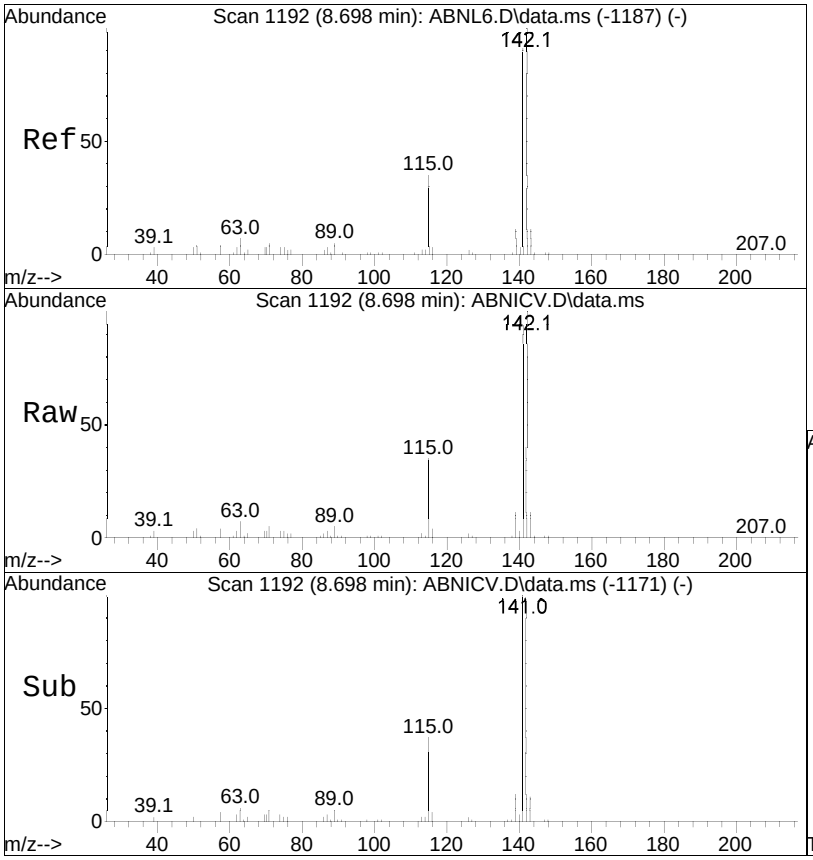


#39
p-Chloro-m-cresol
Concen: 5.45 ug/ml
RT: 8.580 min Scan# 1172
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:107 Resp: 66777

Ion	Ratio	Lower	Upper
107	100		
144	27.2	20.9	31.3
142	84.7	66.1	99.1

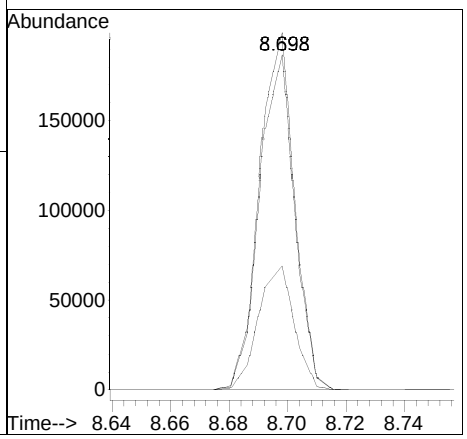


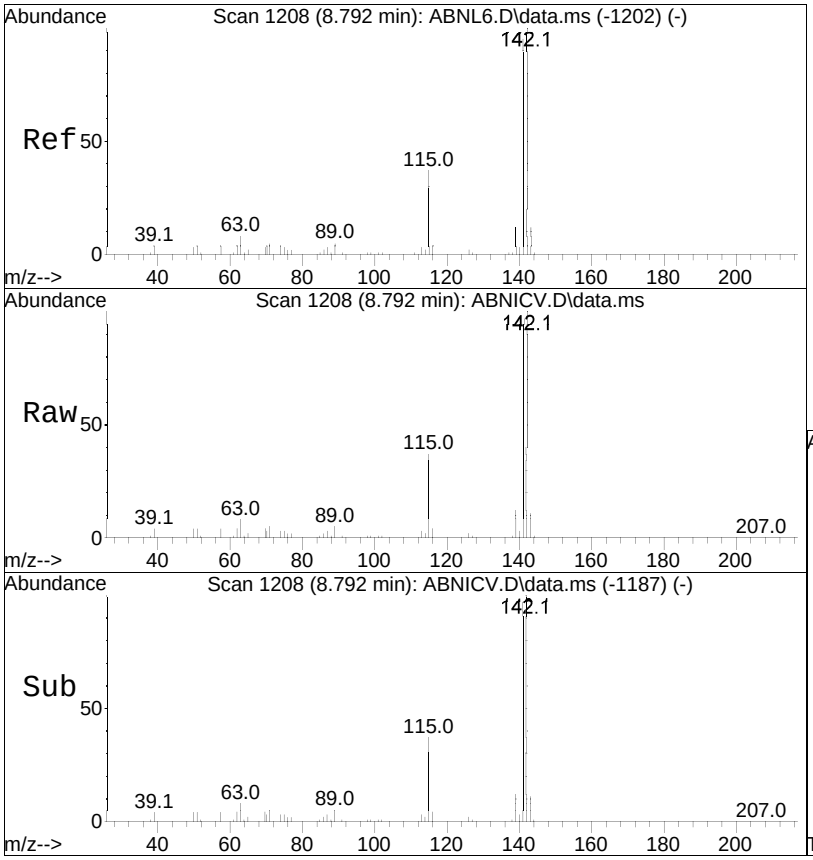


#40
2-Methylnaphthalene
Concen: 5.37 ug/ml
RT: 8.698 min Scan# 1192
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:142 Resp: 166439

Ion	Ratio	Lower	Upper
142	100		
141	93.2	69.6	104.4
115	35.6	26.6	40.0

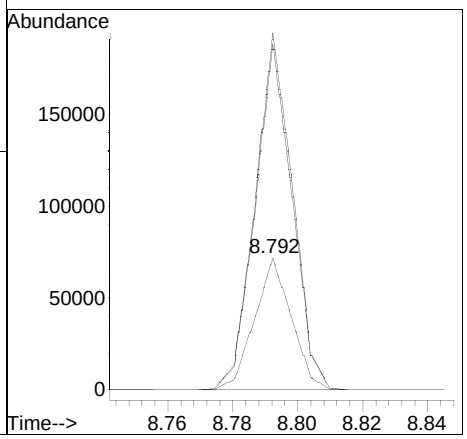


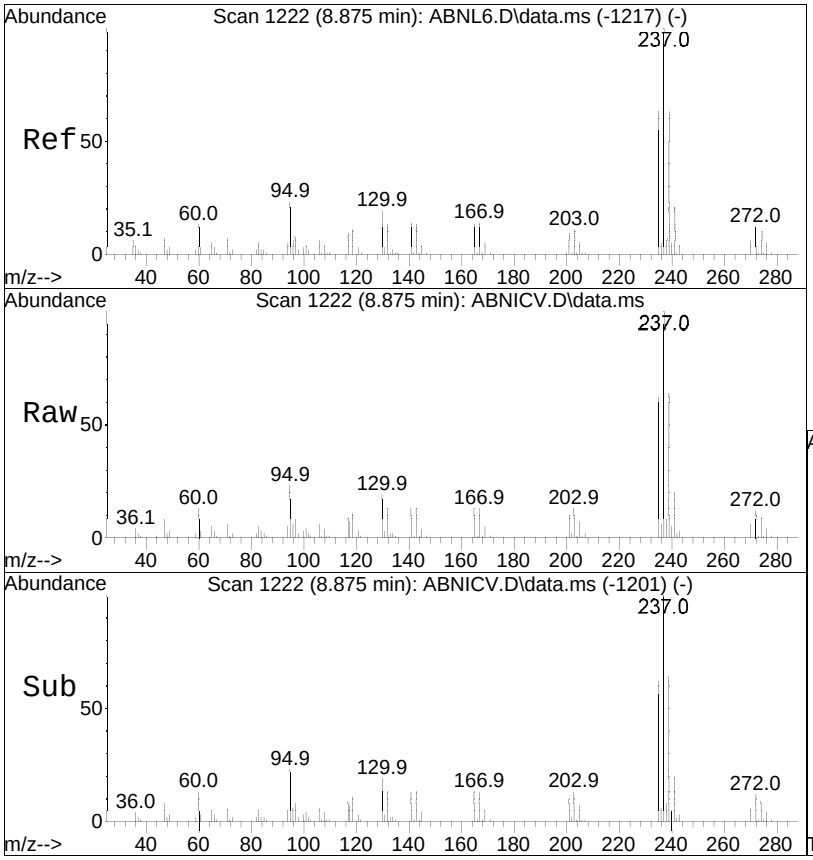


#41
1-Methylnaphthalene
Concen: 5.35 ug/ml
RT: 8.792 min Scan# 1208
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:115 Resp: 56538

Ion	Ratio	Lower	Upper
115	100		
141	261.8	207.8	311.6
142	273.1	226.8	340.2

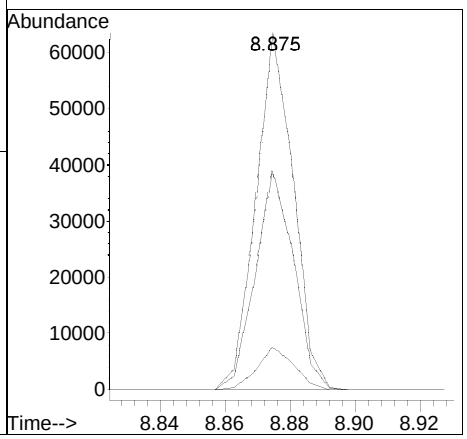


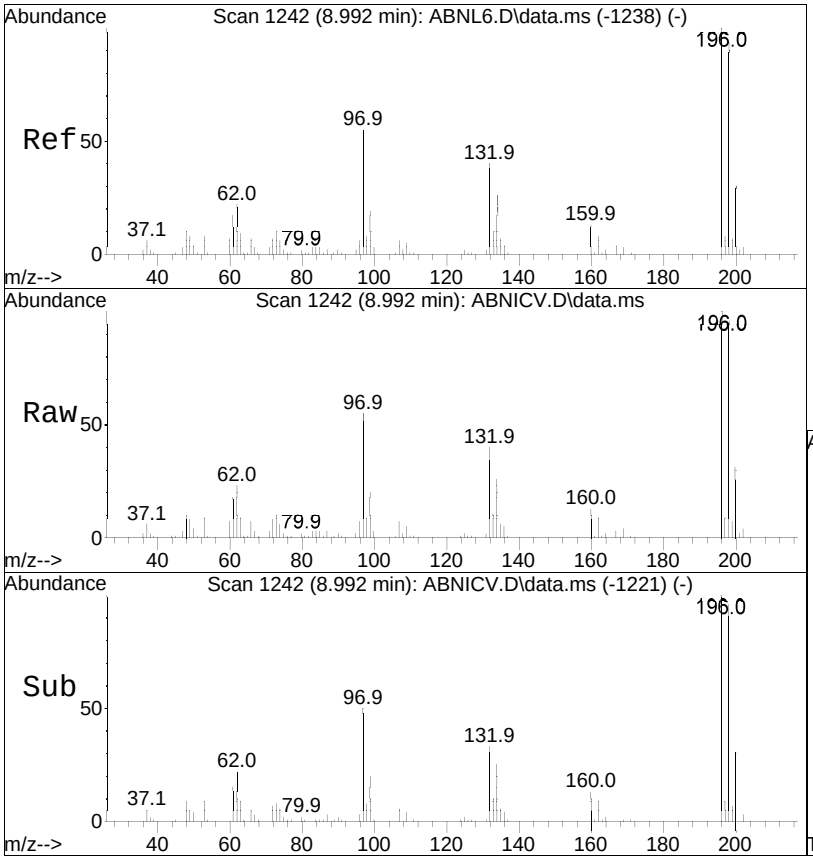


#42
Hexachlorocyclopentadiene
Concen: 5.48 ug/ml
RT: 8.875 min Scan# 1222
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:237 Resp: 50620

Ion	Ratio	Lower	Upper
237	100		
235	63.1	49.7	74.5
272	11.9	9.8	14.6

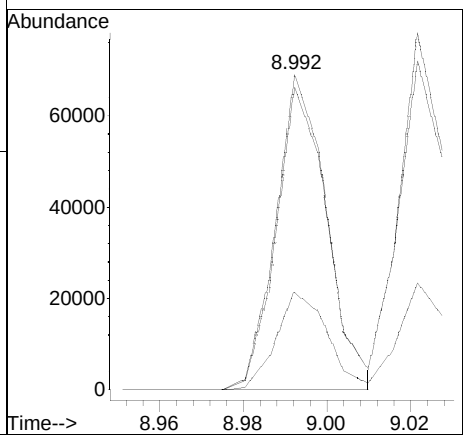


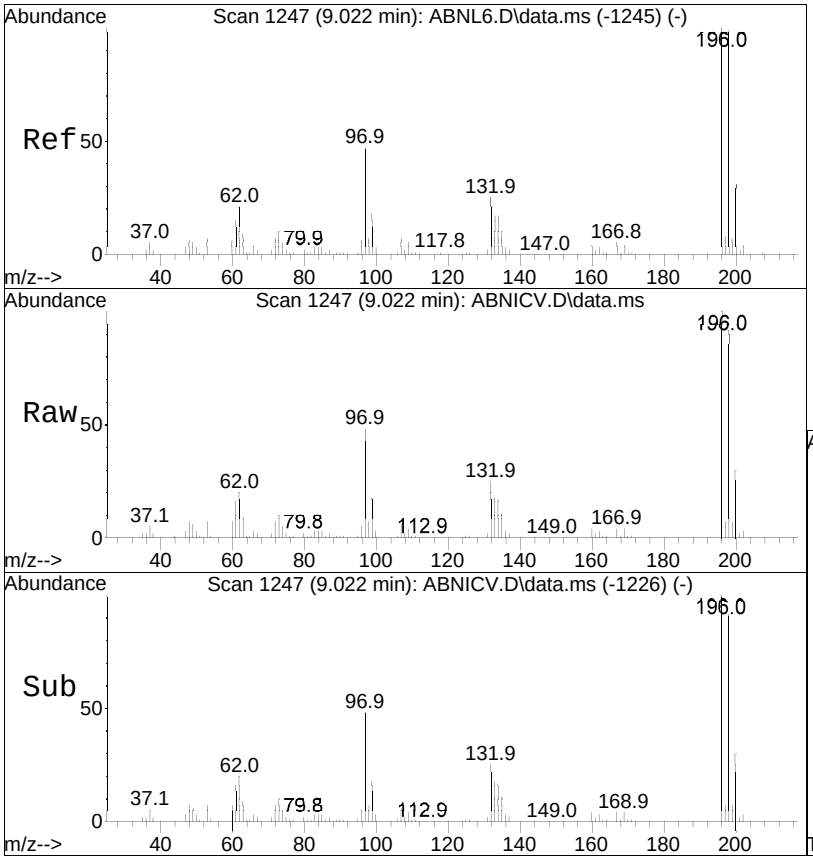


#43
2,4,6-Trichlorophenol
Concen: 5.49 ug/ml
RT: 8.992 min Scan# 1242
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:196 Resp: 58438

Ion	Ratio	Lower	Upper
196	100		
198	96.0	77.5	116.3
200	31.5	23.8	35.6

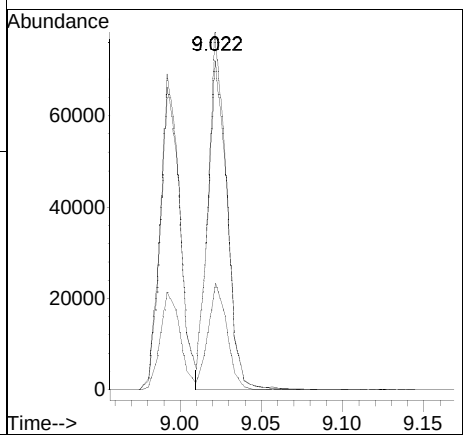


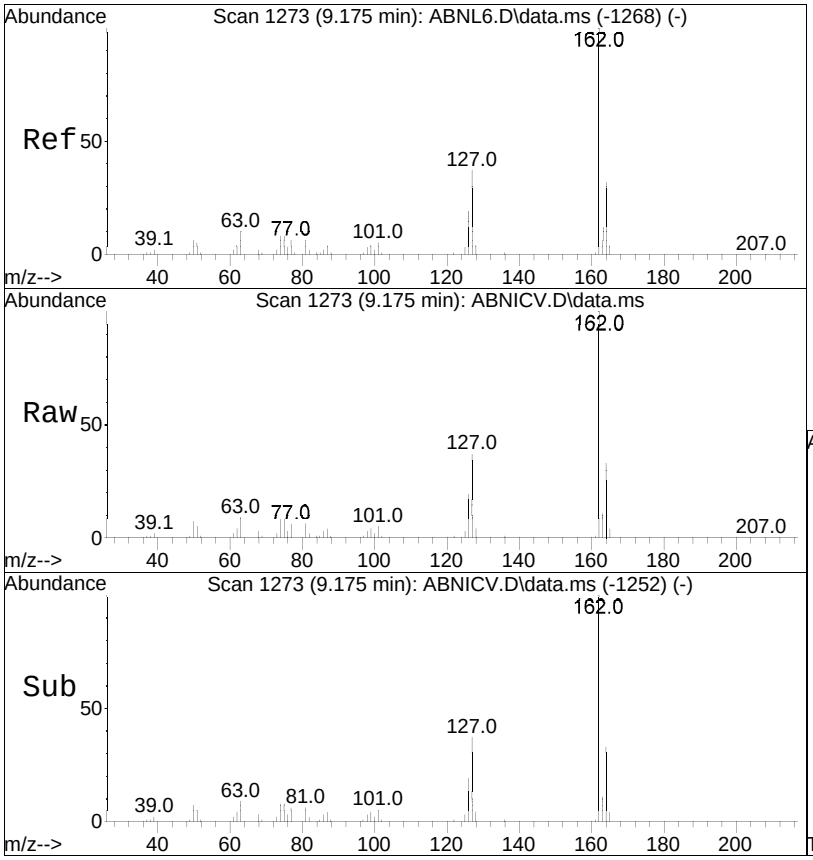


#44
2,4,5-Trichlorophenol
Concen: 5.54 ug/ml
RT: 9.022 min Scan# 1247
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:196 Resp: 62619

Ion	Ratio	Lower	Upper
196	100		
200	30.1	25.4	38.0
198	95.3	78.0	117.0

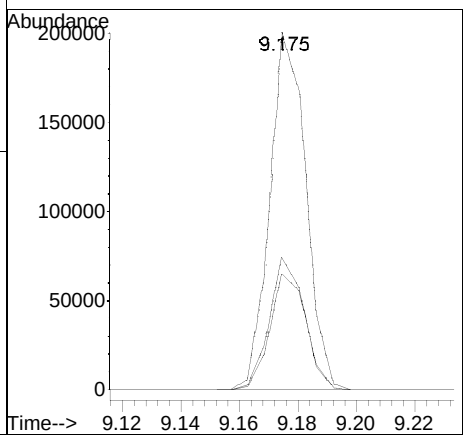


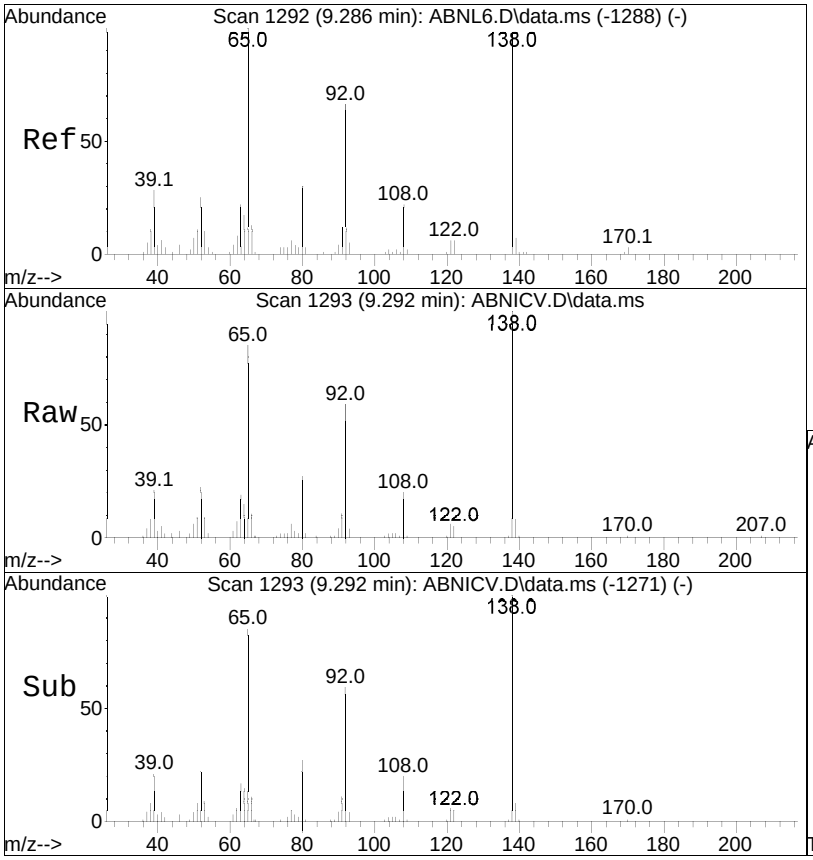


#46
2-Chloronaphthalene
Concen: 5.28 ug/ml
RT: 9.175 min Scan# 1273
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:162 Resp: 170033

Ion	Ratio	Lower	Upper
162	100		
127	36.0	32.2	48.4
164	32.8	25.7	38.5

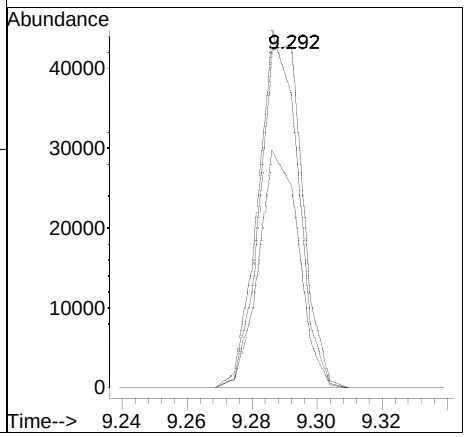


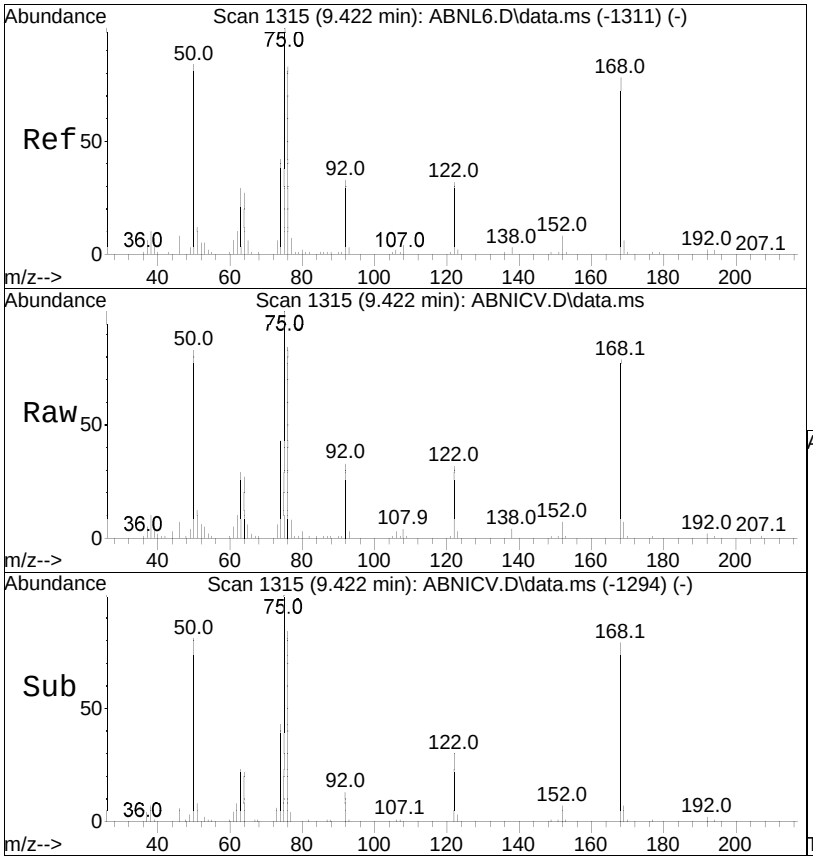


#47
2-Nitroaniline
Concen: 5.01 ug/ml
RT: 9.292 min Scan# 1293
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:138 Resp: 39012

Ion	Ratio	Lower	Upper
138	100		
92	64.9	53.5	80.3
65	96.8	86.3	129.5

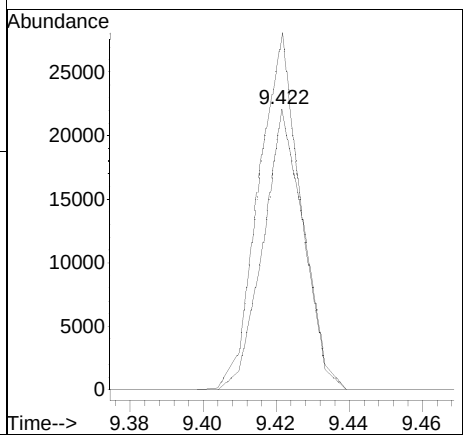


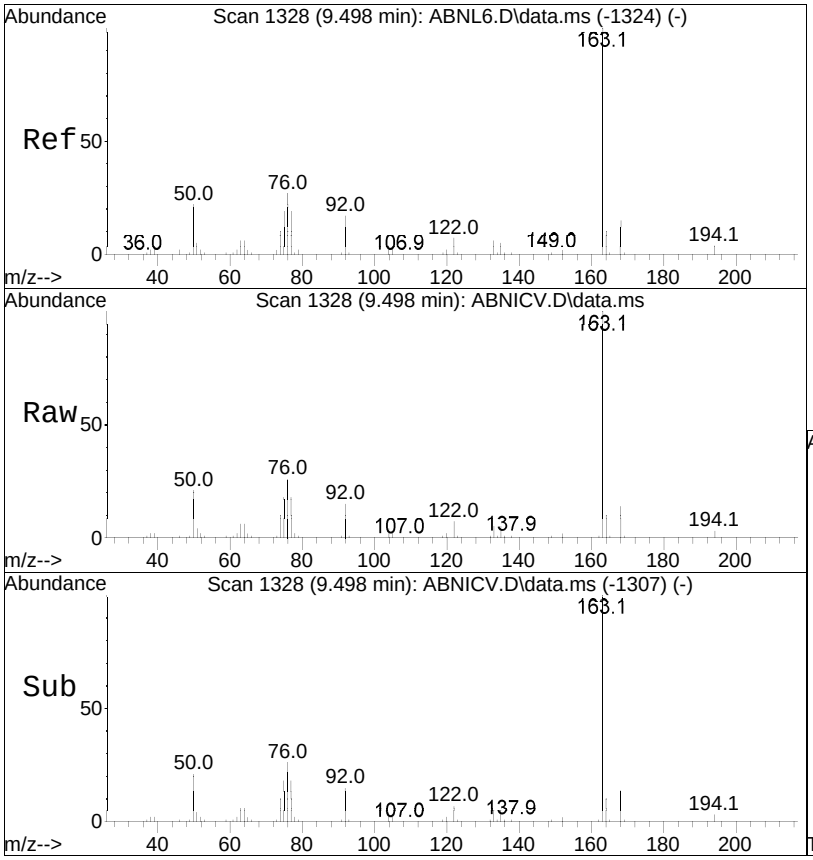


#48
1,4-Dinitrobenzene
Concen: 4.37 ug/ml
RT: 9.422 min Scan# 1315
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 17114

Ion	Ratio	Lower	Upper
168	100		
75	129.1	121.8	182.8

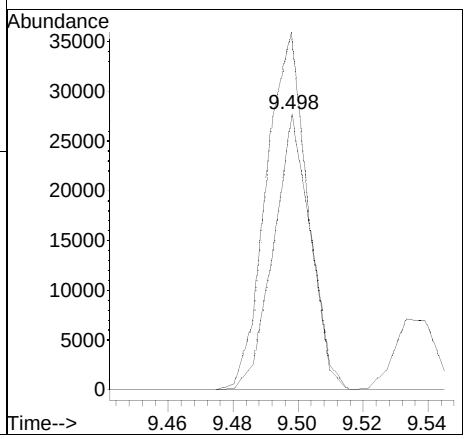


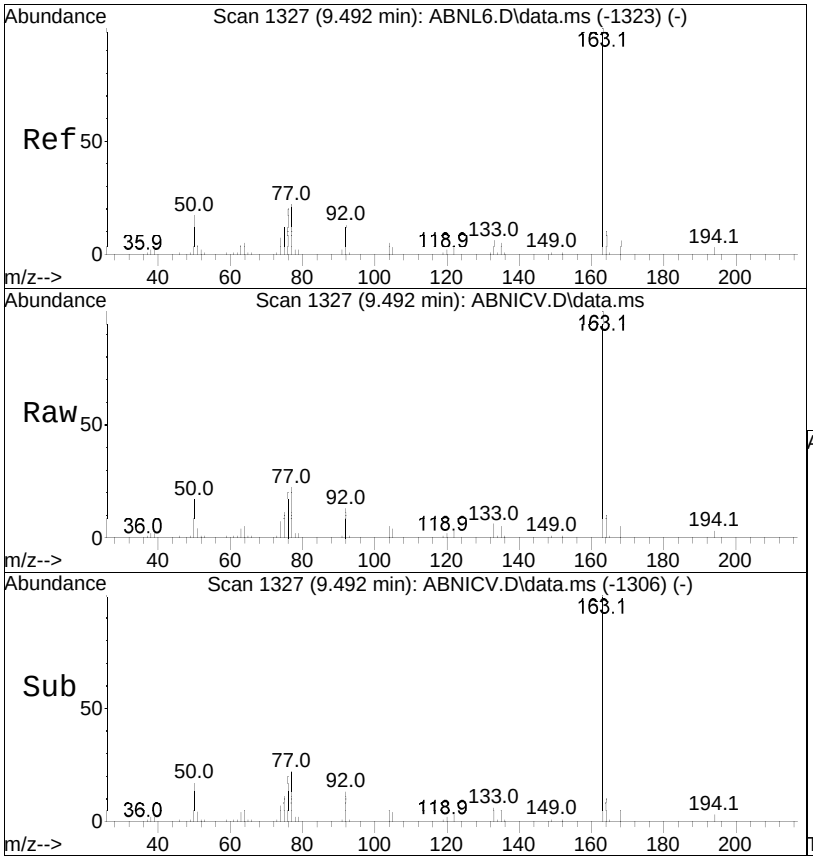


#49
1,3-Dinitrobenzene
Concen: 4.48 ug/ml
RT: 9.498 min Scan# 1328
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 21913

Ion	Ratio	Lower	Upper
168	100		
75	142.2	22.7	34.1#

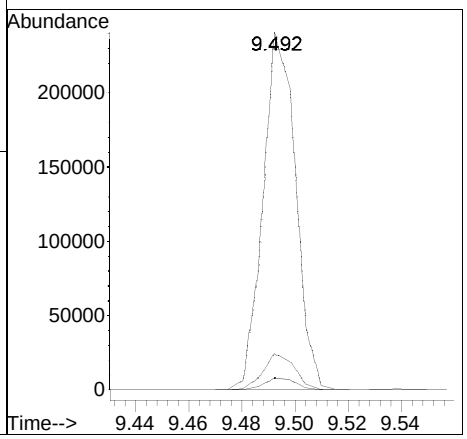


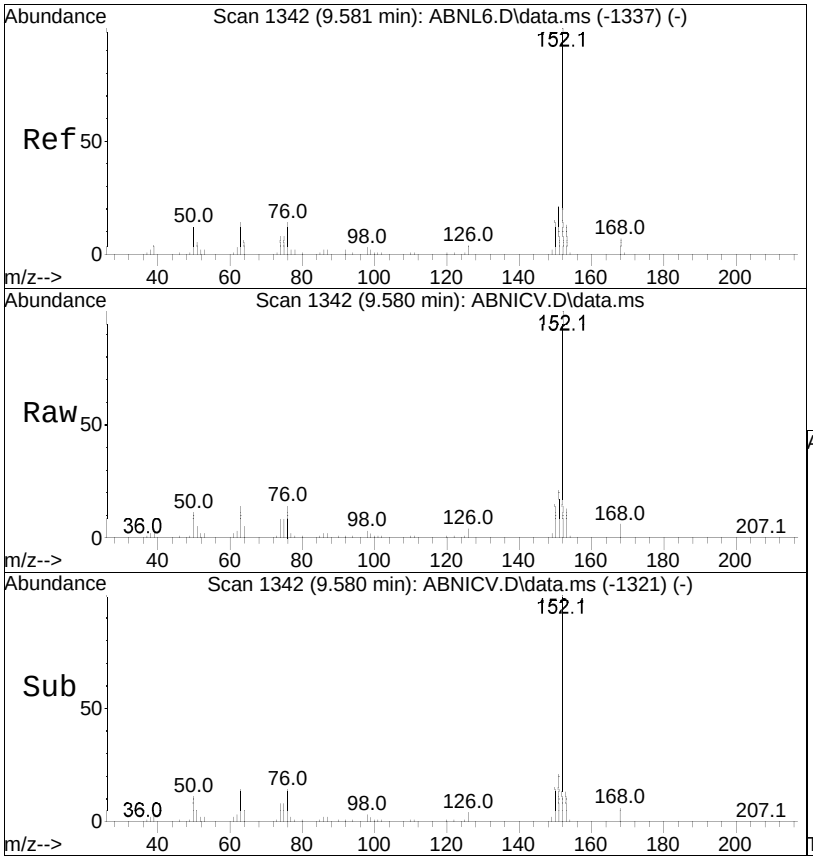


#50
Dimethyl phthalate
Concen: 5.37 ug/ml
RT: 9.492 min Scan# 1327
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:163 Resp: 202629

Ion	Ratio	Lower	Upper
163	100		
194	3.3	3.5	5.3#
164	10.0	7.9	11.9

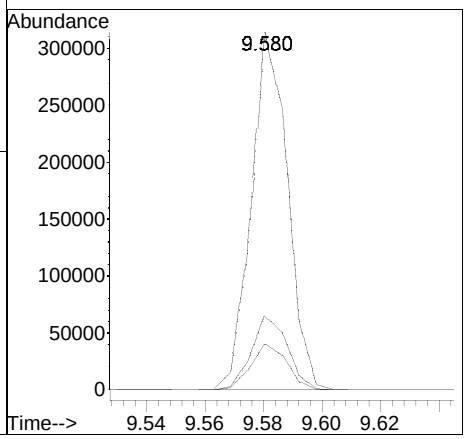


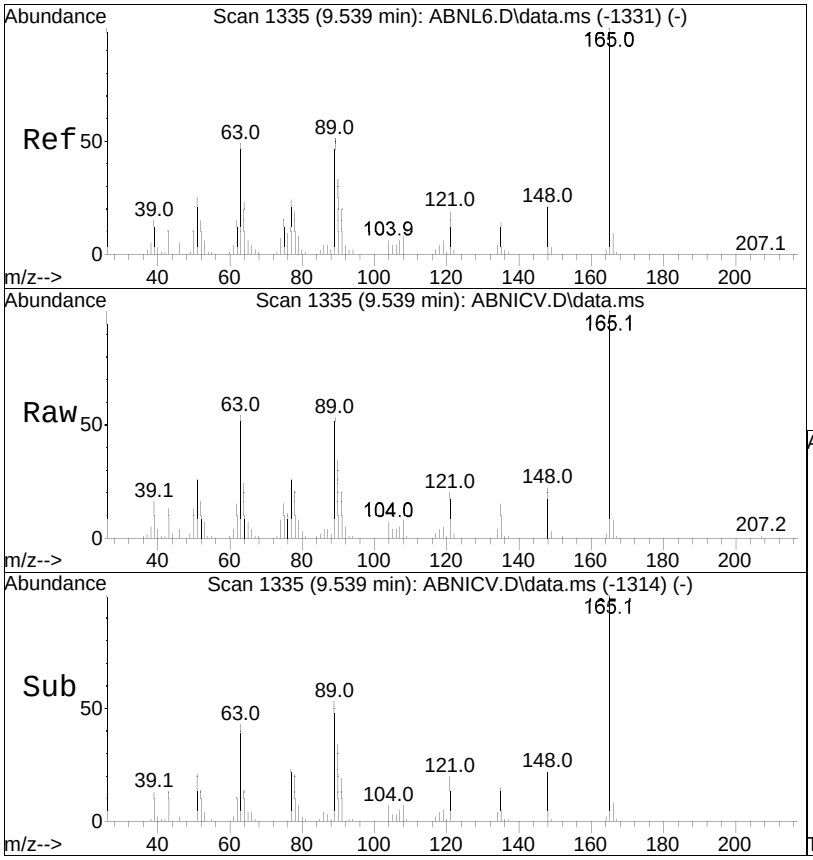


#51
Acenaphthylene
Concen: 5.51 ug/ml
RT: 9.580 min Scan# 1342
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:152 Resp: 267479

Ion	Ratio	Lower	Upper
152	100		
151	20.8	15.8	23.6
153	12.9	10.5	15.7

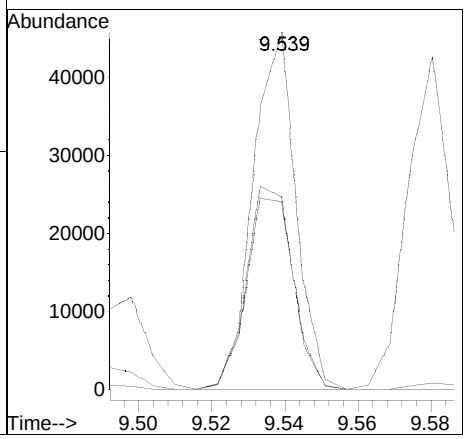


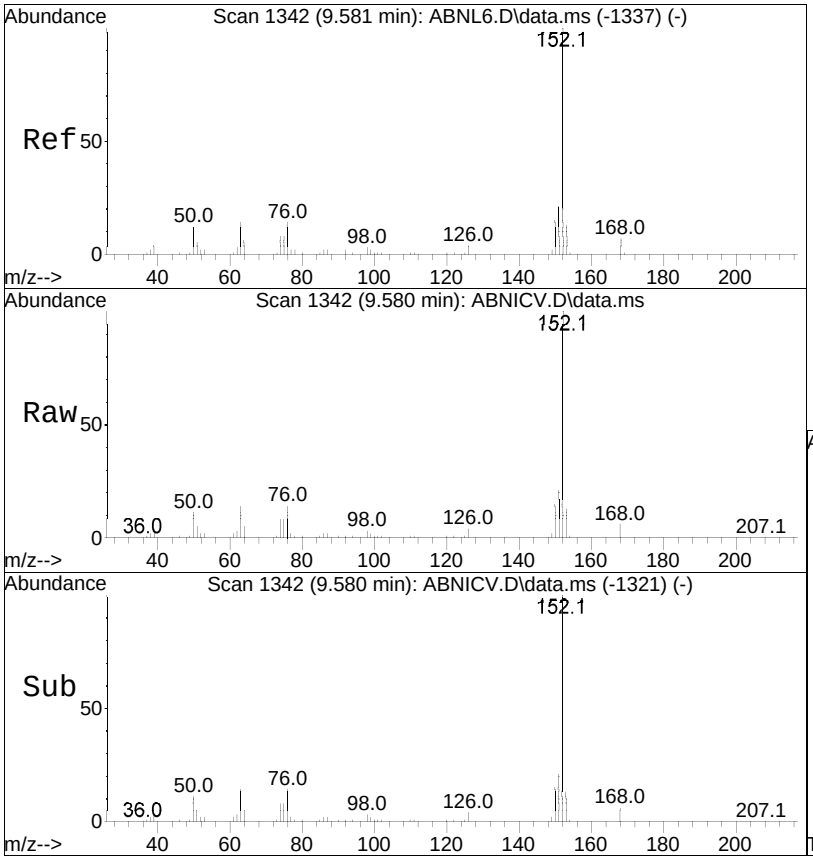


#52
2,6-Dinitrotoluene
Concen: 5.43 ug/ml
RT: 9.539 min Scan# 1335
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:165 Resp: 37241

Ion	Ratio	Lower	Upper
165	100		
89	59.7	54.2	81.2
63	61.7	64.2	96.2#

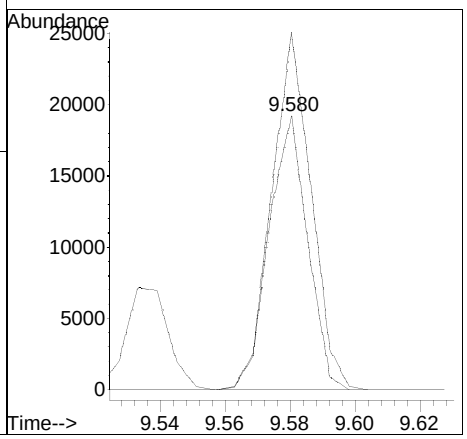


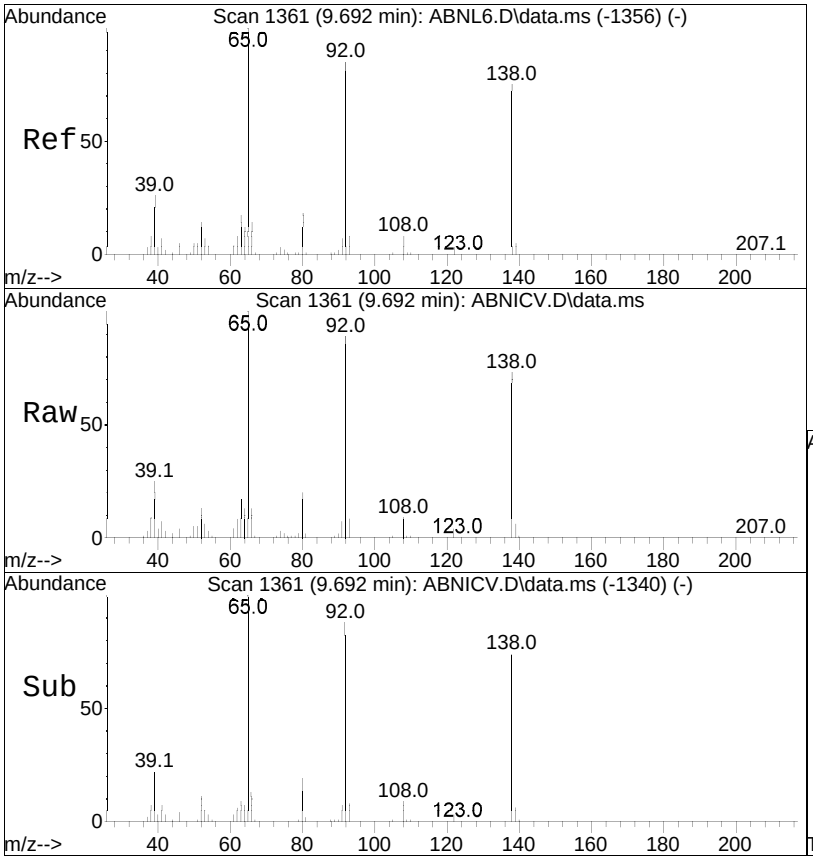


#53
1,2-Dinitrobenzene
Concen: 5.13 ug/ml
RT: 9.580 min Scan# 1342
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 15743

Ion	Ratio	Lower	Upper
168	100		
75	133.3	30.9	46.3#

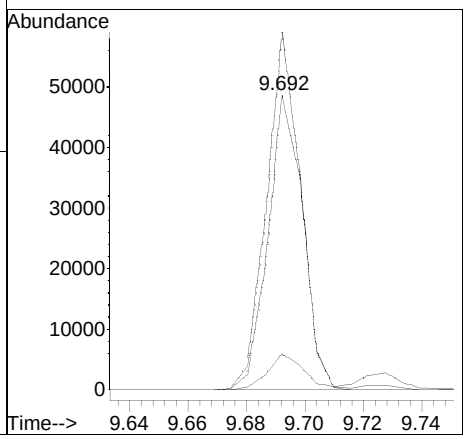


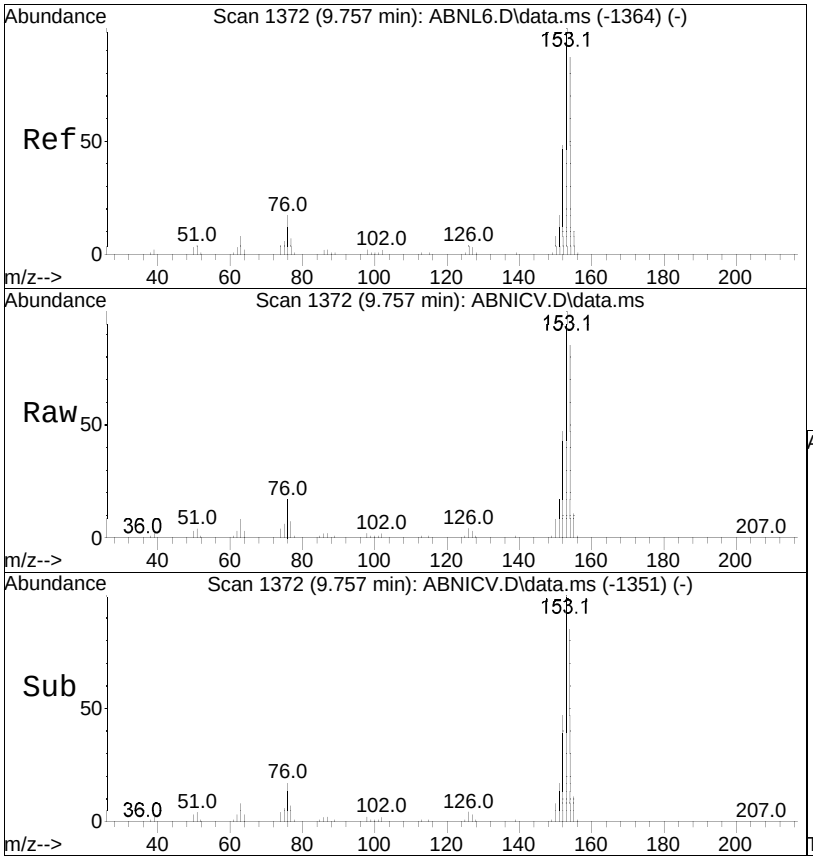


#63
3-Nitroaniline
Concen: 5.53 ug/ml
RT: 9.692 min Scan# 1361
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:138 Resp: 39753

Ion	Ratio	Lower	Upper
138	100		
92	118.5	93.4	140.2
108	12.8	9.5	14.3

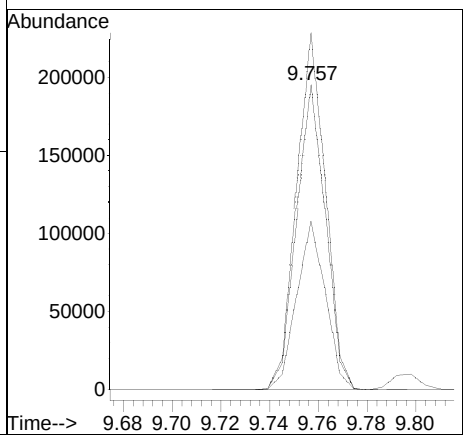


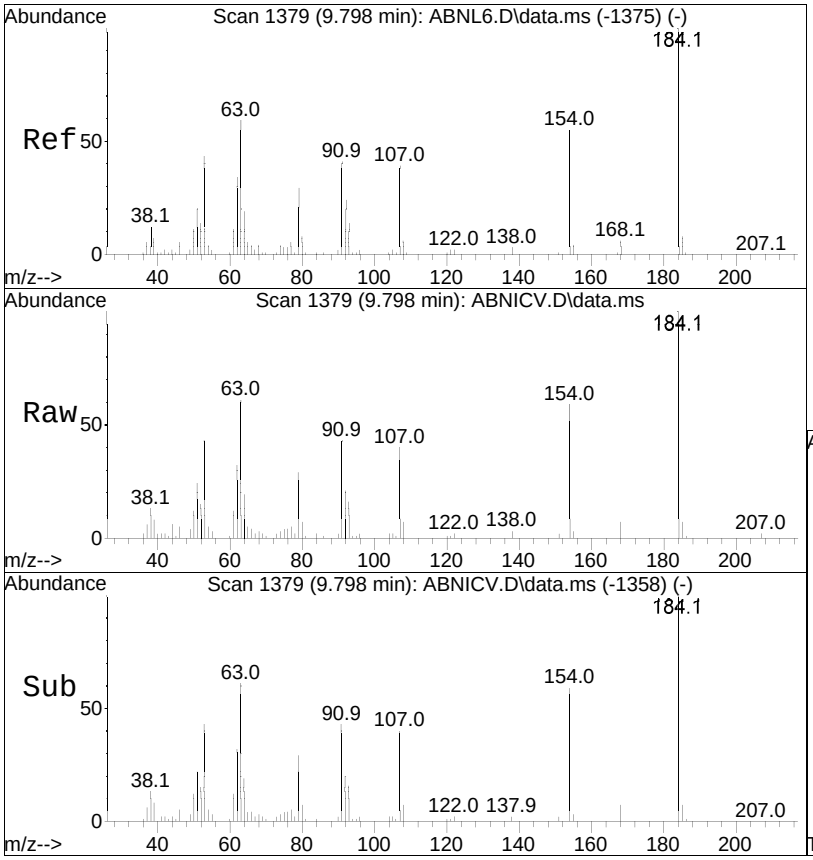


#64
Acenaphthene
Concen: 5.38 ug/ml
RT: 9.757 min Scan# 1372
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:154 Resp: 161236

Ion	Ratio	Lower	Upper
154	100		
153	116.6	85.3	127.9
152	55.3	41.4	62.0

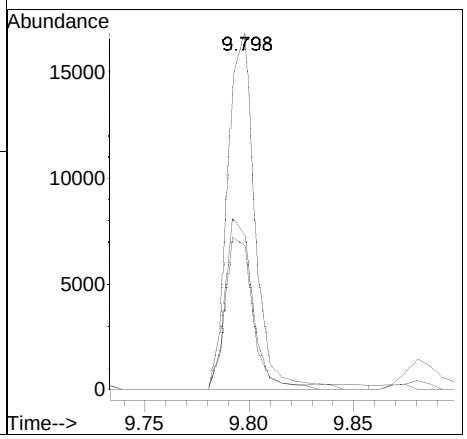


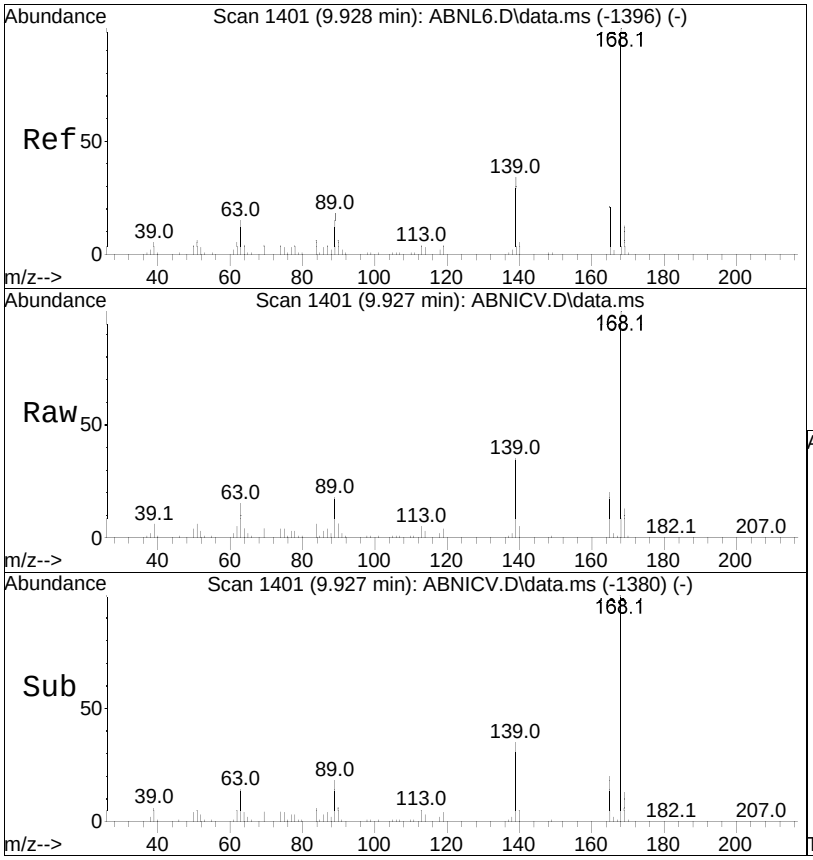


#65
2,4-Dinitrophenol
Concen: 4.21 ug/ml
RT: 9.798 min Scan# 1379
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:184 Resp: 15506

Ion	Ratio	Lower	Upper
184	100		
107	43.0	37.7	56.5
91	48.6	46.3	69.5

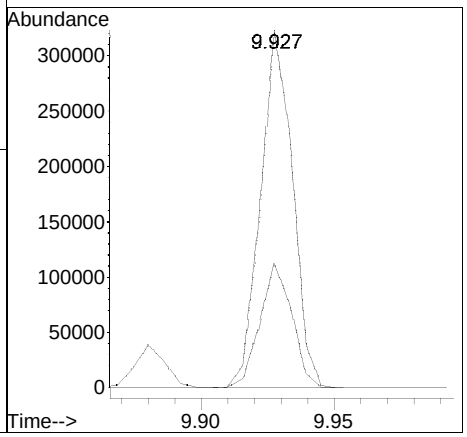


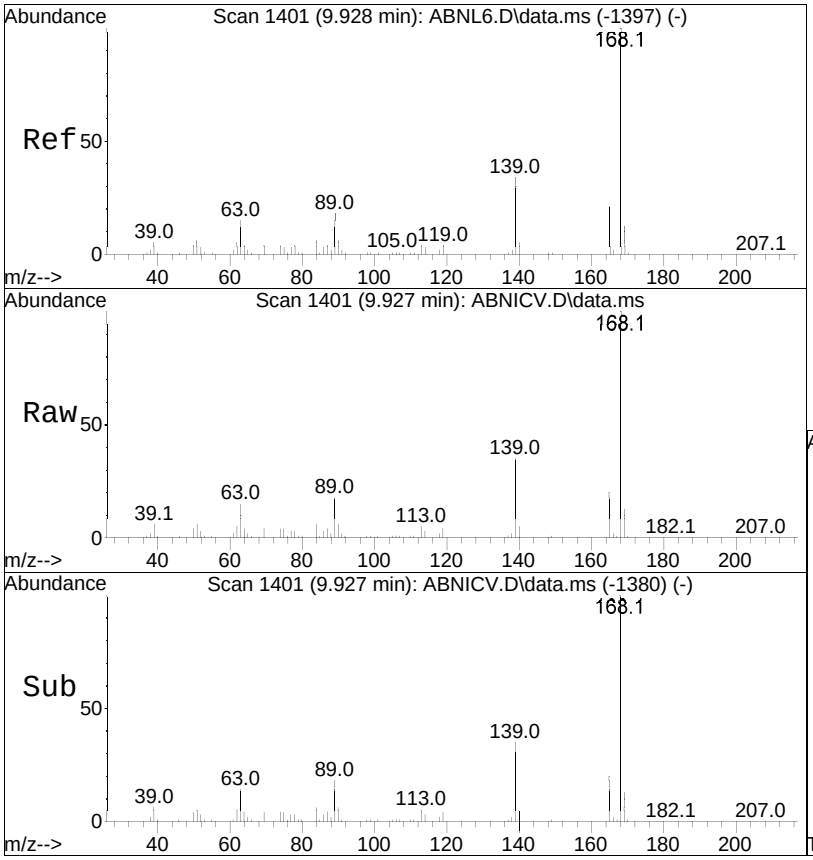


#66
Dibenzofuran
Concen: 5.47 ug/ml
RT: 9.927 min Scan# 1401
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 266500

Ion	Ratio	Lower	Upper
168	100		
139	35.1	31.4	47.2

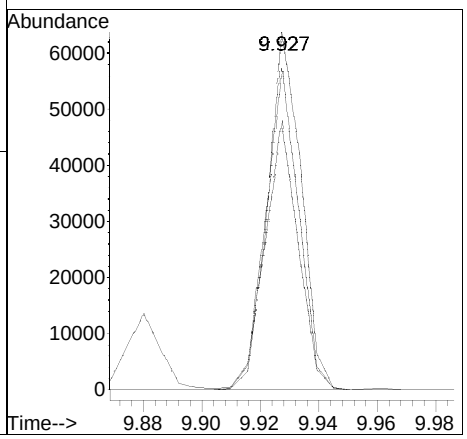


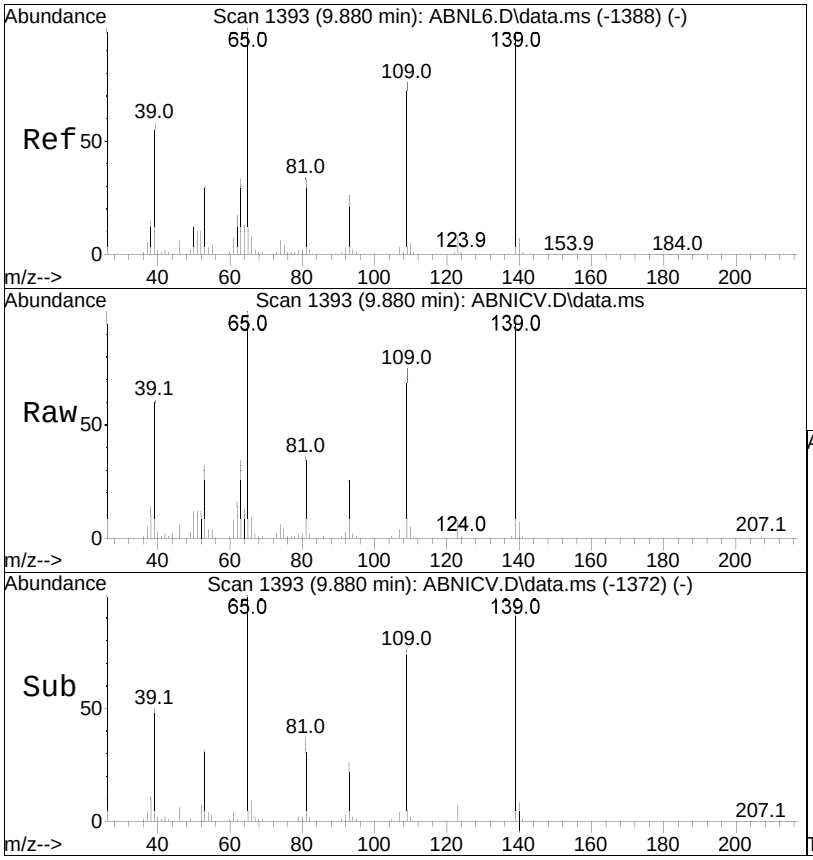


#67
2,4-Dinitrotoluene
Concen: 4.70 ug/ml
RT: 9.927 min Scan# 1401
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:165 Resp: 50041

Ion	Ratio	Lower	Upper
165	100		
89	88.8	72.0	108.0
63	75.3	52.7	79.1

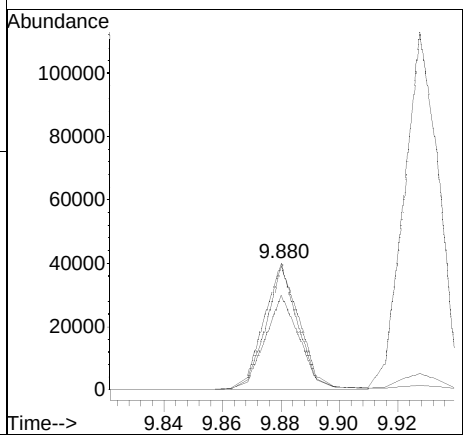


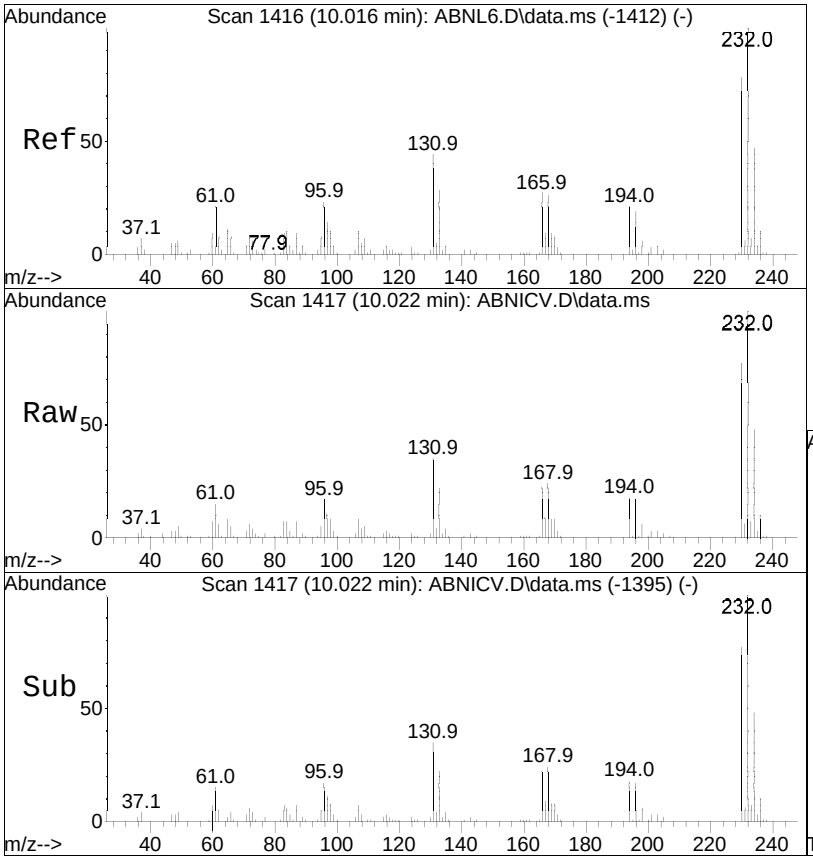


#68
4-Nitrophenol
Concen: 5.24 ug/ml
RT: 9.880 min Scan# 1393
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 65 Resp: 32159

Ion	Ratio	Lower	Upper
65	100		
109	76.3	47.4	71.2#
139	97.3	76.6	115.0

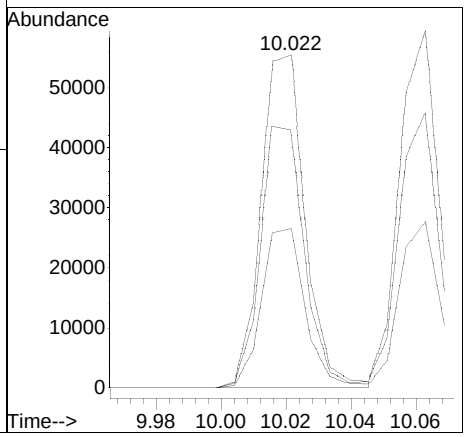


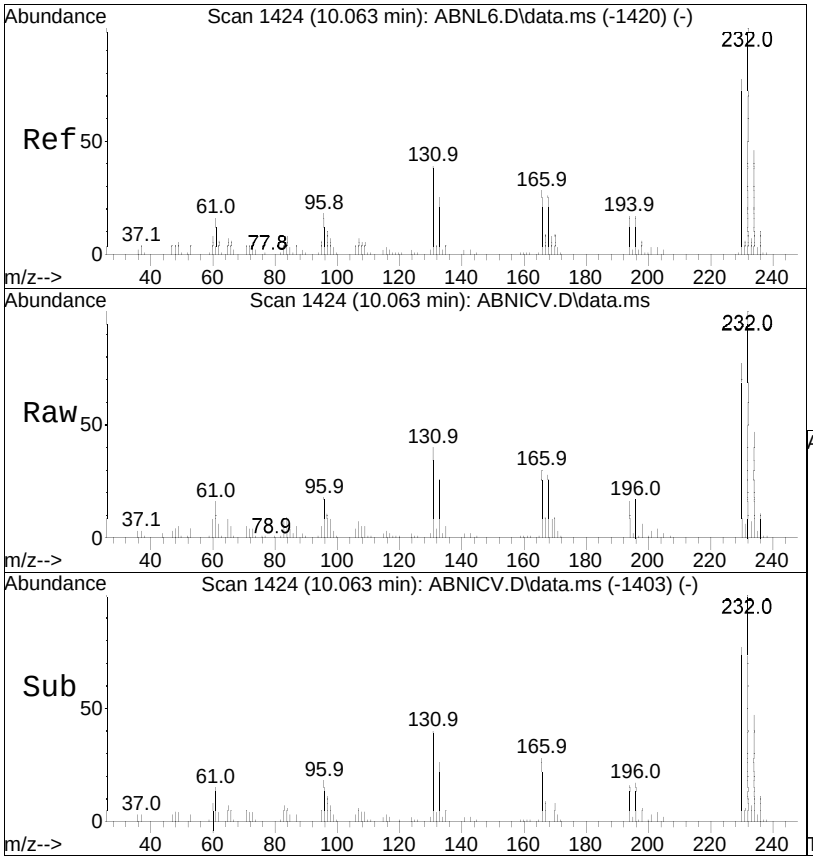


#69
2,3,5,6-Tetrachlorophenol
Concen: 5.94 ug/ml
RT: 10.022 min Scan# 1417
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:232 Resp: 52335

Ion	Ratio	Lower	Upper
232	100		
230	77.8	64.2	96.4
234	47.5	38.1	57.1

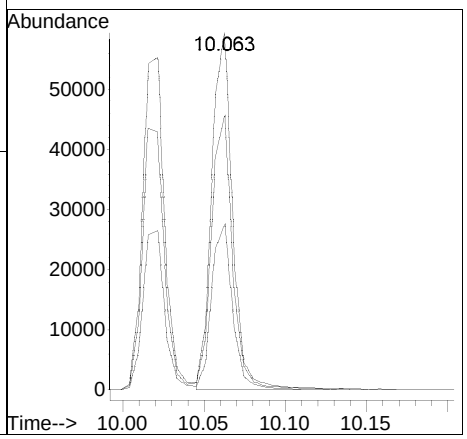


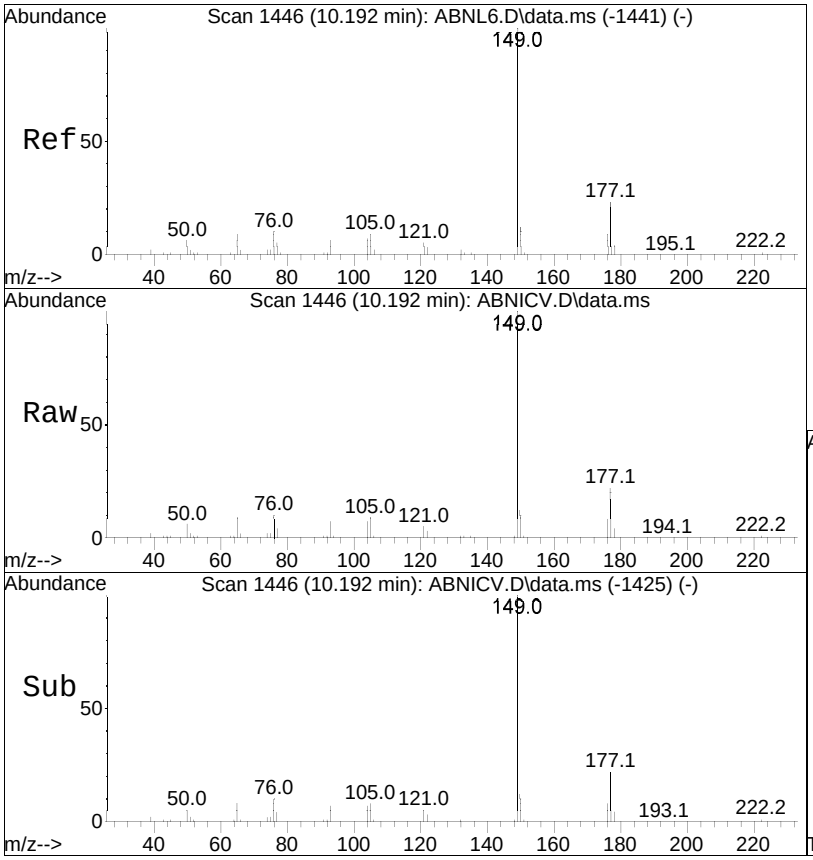


#70
2,3,4,6-Tetrachlorophenol
Concen: 6.15 ug/ml
RT: 10.063 min Scan# 1424
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:232 Resp: 53523

Ion	Ratio	Lower	Upper
232	100		
230	77.6	61.8	92.8
234	46.4	36.2	54.2

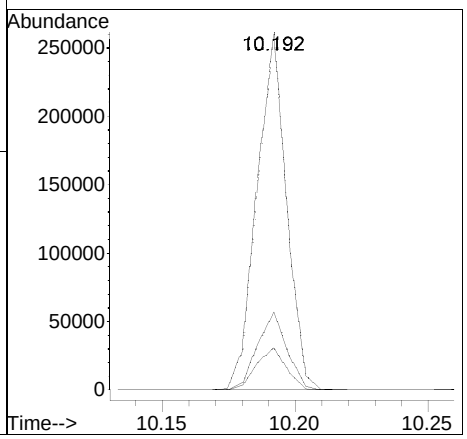


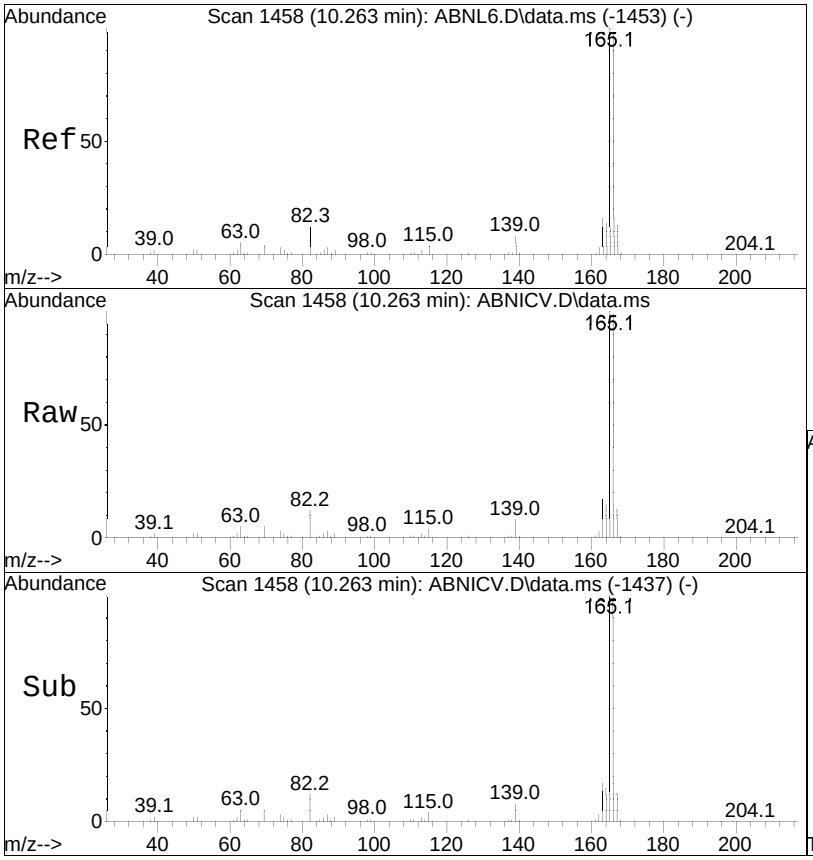


#71
Diethyl phthalate
Concen: 5.50 ug/ml
RT: 10.192 min Scan# 1446
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 198362

Ion	Ratio	Lower	Upper
149	100		
177	22.0	16.1	24.1
150	12.1	9.4	14.2

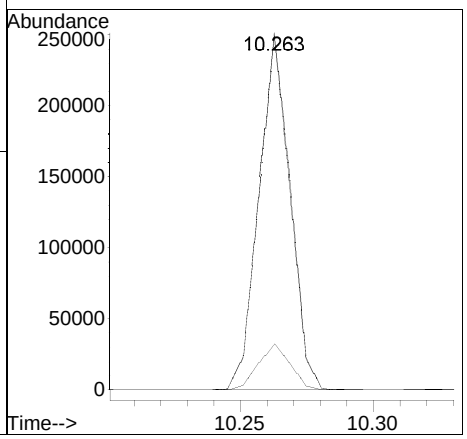


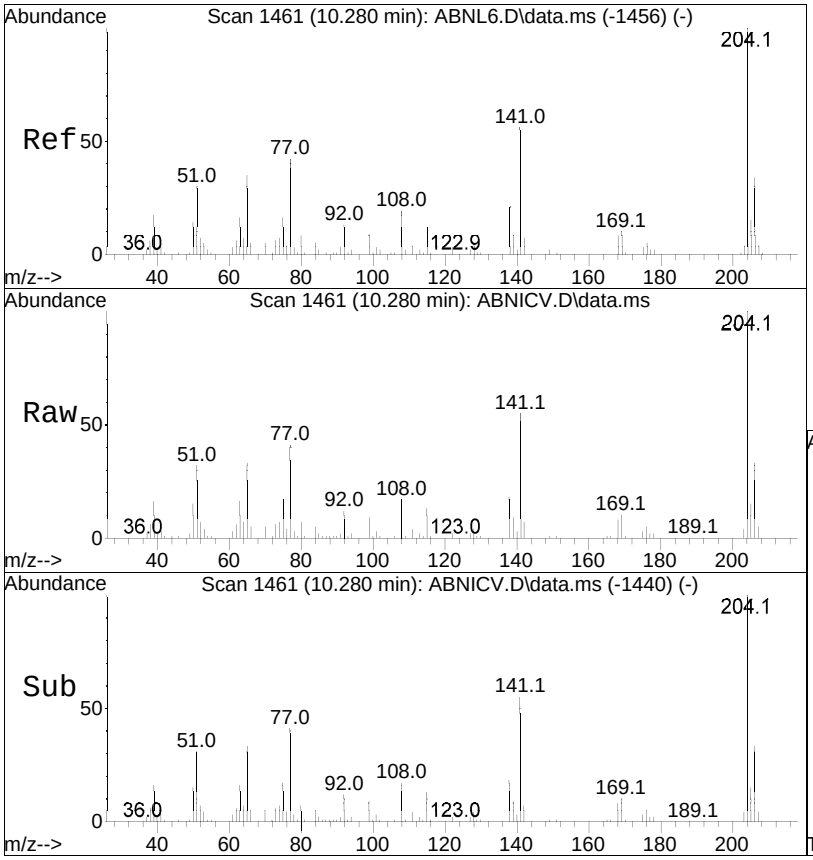


#72
Fluorene
Concen: 5.47 ug/ml
RT: 10.263 min Scan# 1458
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:166 Resp: 201378

Ion	Ratio	Lower	Upper
166	100		
165	102.2	76.2	114.2
167	13.7	10.6	15.8

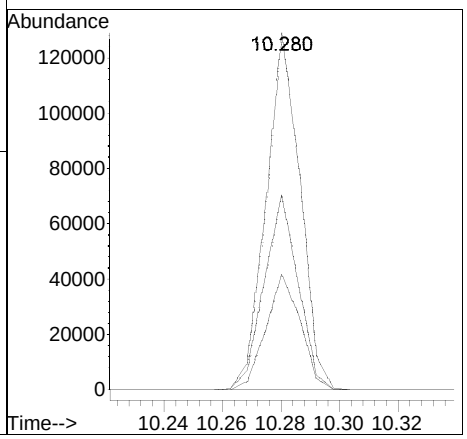


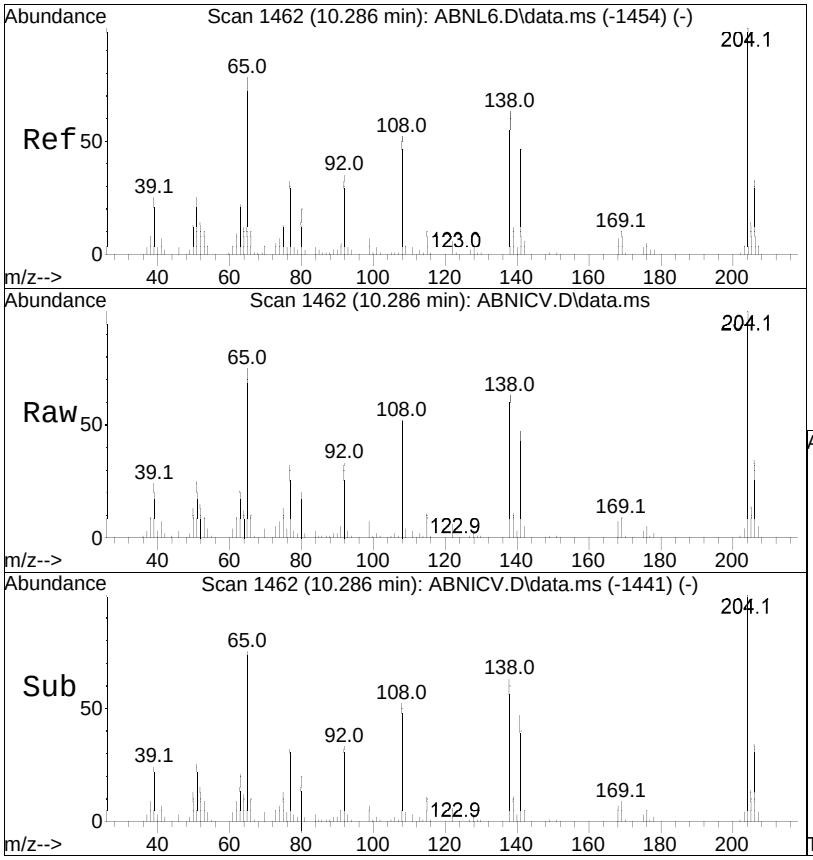


#73
4-Chlorophenyl phenyl ether
Concen: 5.52 ug/ml
RT: 10.280 min Scan# 1461
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:204 Resp: 102835

Ion	Ratio	Lower	Upper
204	100		
206	33.0	25.8	38.6
141	54.9	53.6	80.4

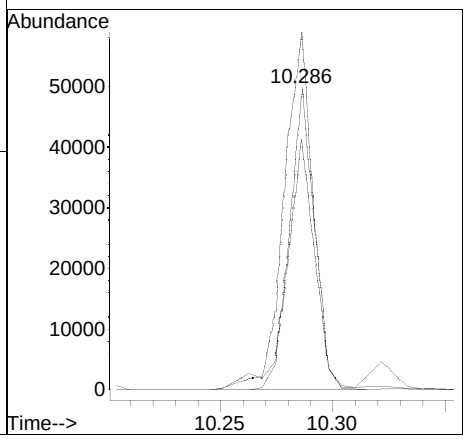


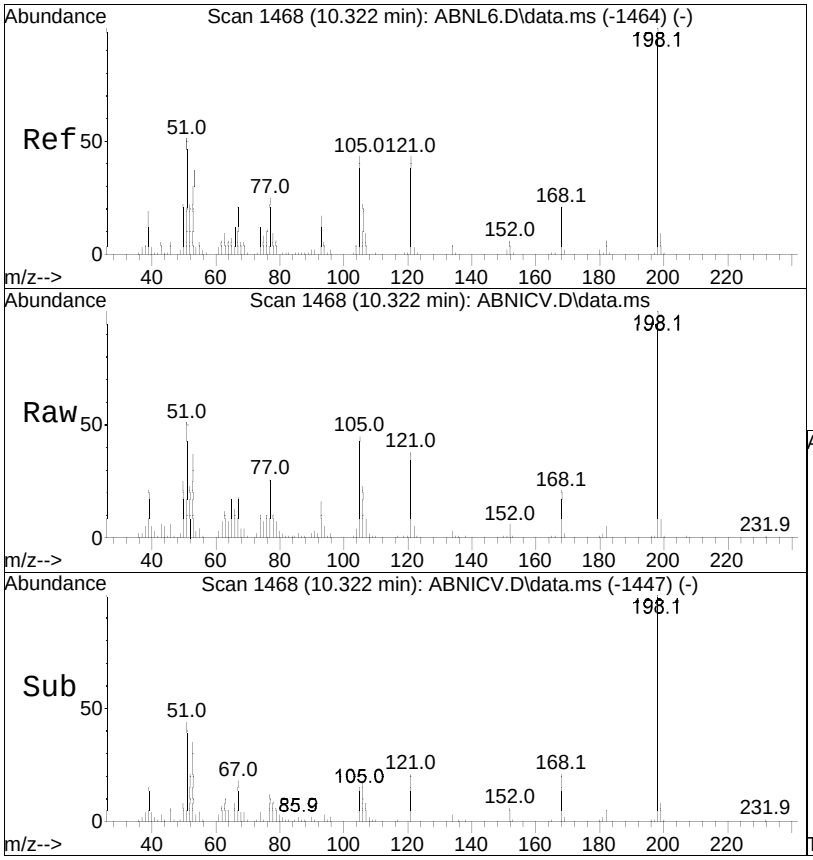


#74
4-Nitroaniline
Concen: 5.57 ug/ml
RT: 10.286 min Scan# 1462
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:138 Resp: 40513

Ion	Ratio	Lower	Upper
138	100		
108	82.3	52.1	78.1#
65	129.8	115.0	172.6

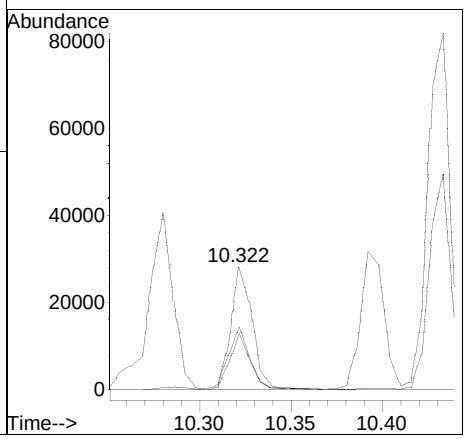


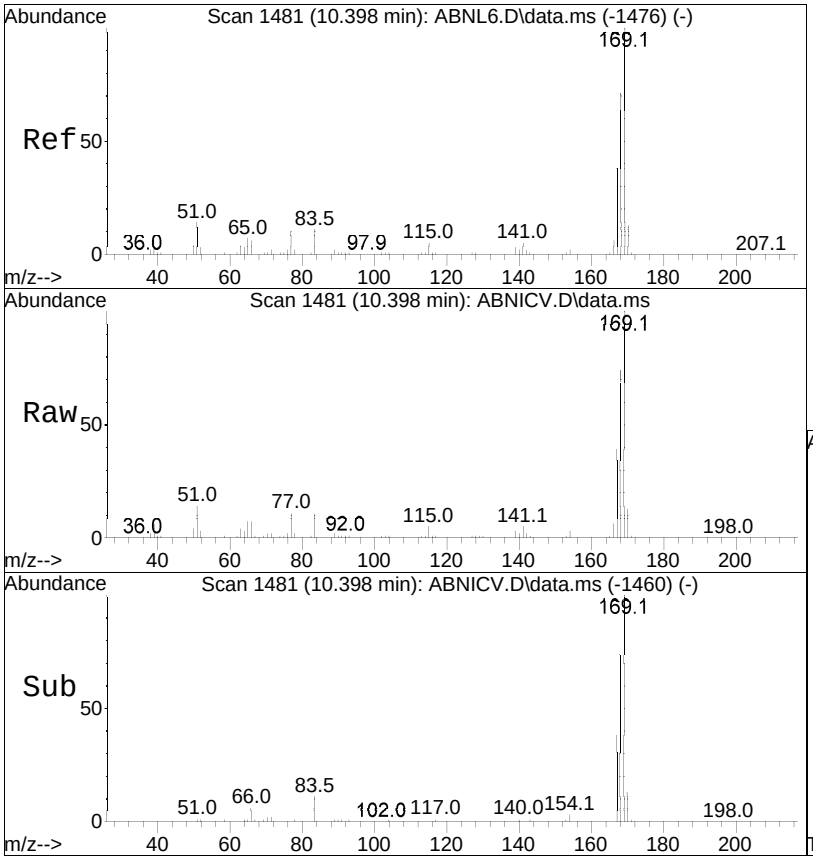


#75
4,6-Dinitro-o-cresol
Concen: 4.23 ug/ml
RT: 10.322 min Scan# 1468
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:198 Resp: 23532

Ion	Ratio	Lower	Upper
198	100		
51	48.4	76.0	114.0#
105	43.6	45.6	68.4#

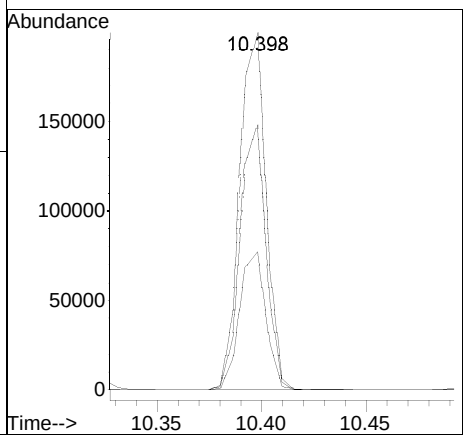


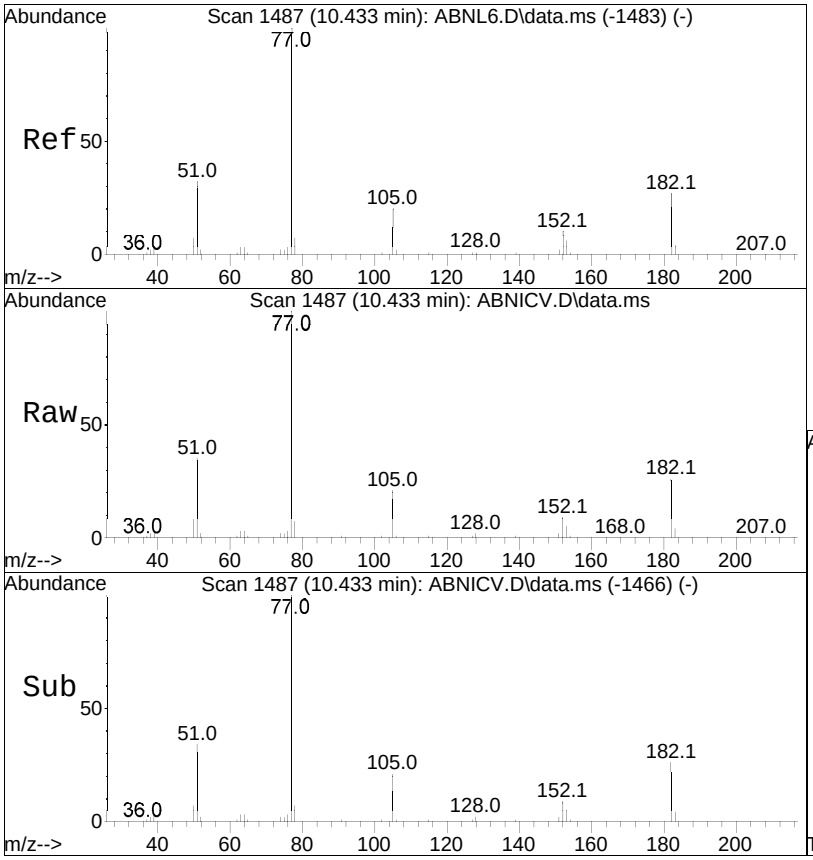


#76
NDPA/DPA
Concen: 5.59 ug/ml
RT: 10.398 min Scan# 1481
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:169 Resp: 175362

Ion	Ratio	Lower	Upper
169	100		
168	72.6	54.0	81.0
167	38.7	28.6	42.8

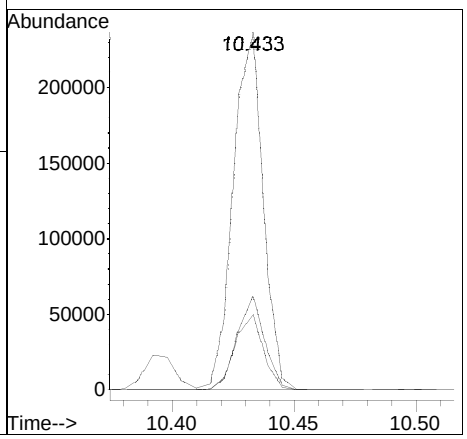


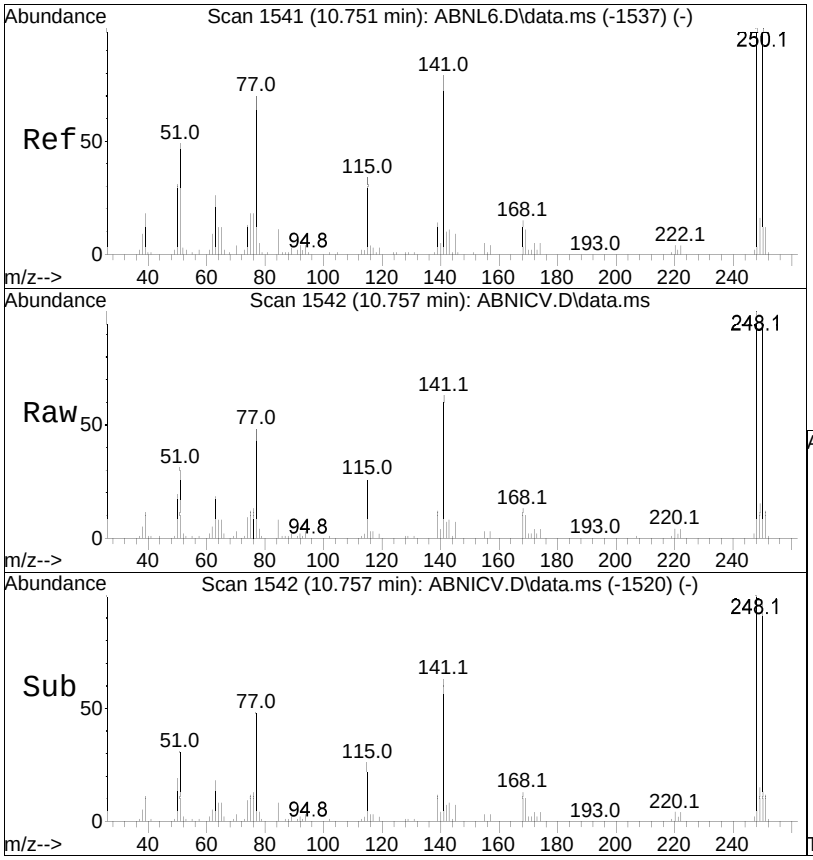


#77
Azobenzene
Concen: 5.72 ug/ml
RT: 10.433 min Scan# 1487
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 77 Resp: 199756

Ion	Ratio	Lower	Upper
77	100		
182	24.5	17.4	26.2
105	20.3	15.4	23.2

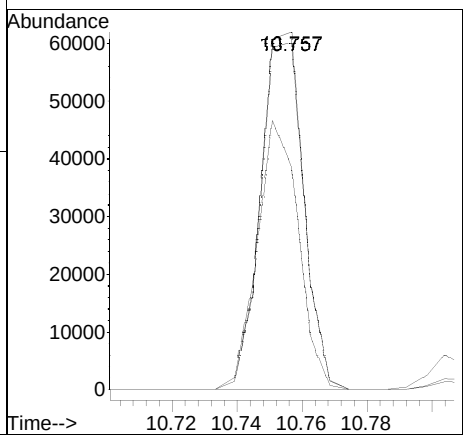


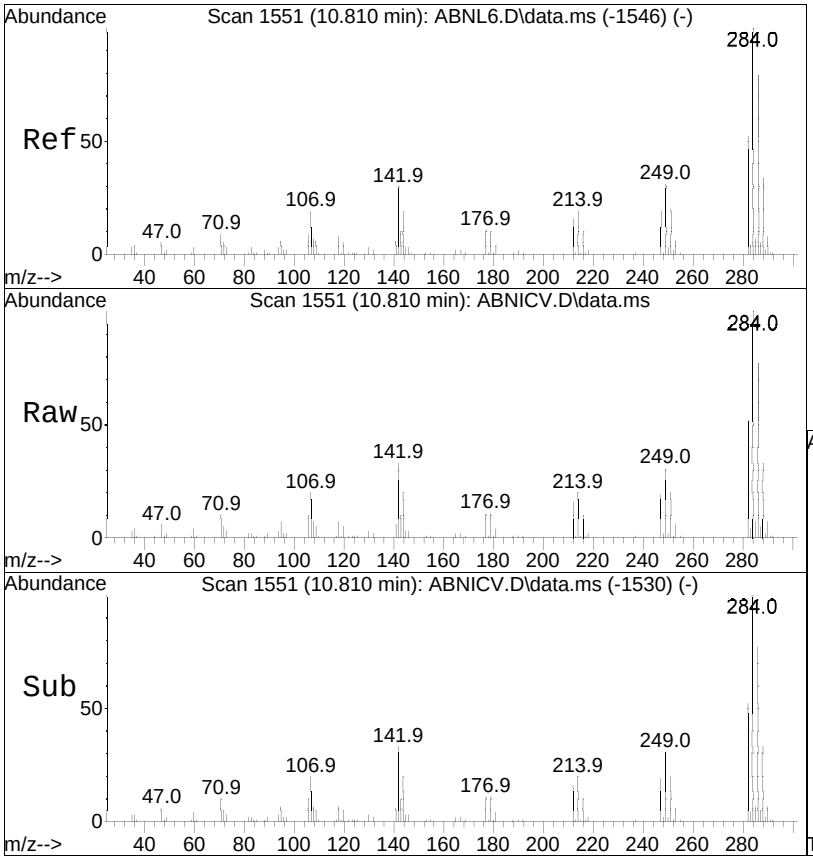


#79
4-Bromophenyl phenyl ether
Concen: 5.43 ug/ml
RT: 10.757 min Scan# 1542
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:248 Resp: 56638

Ion	Ratio	Lower	Upper
248	100		
141	71.9	76.6	114.8#
250	97.4	77.3	115.9

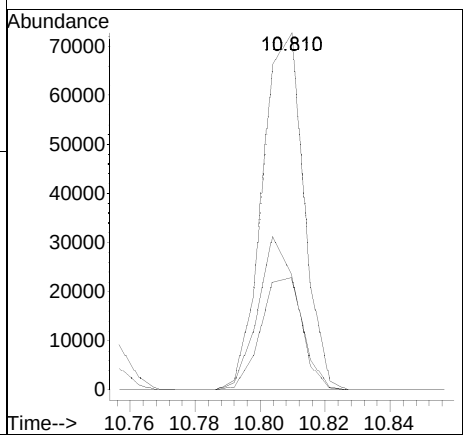


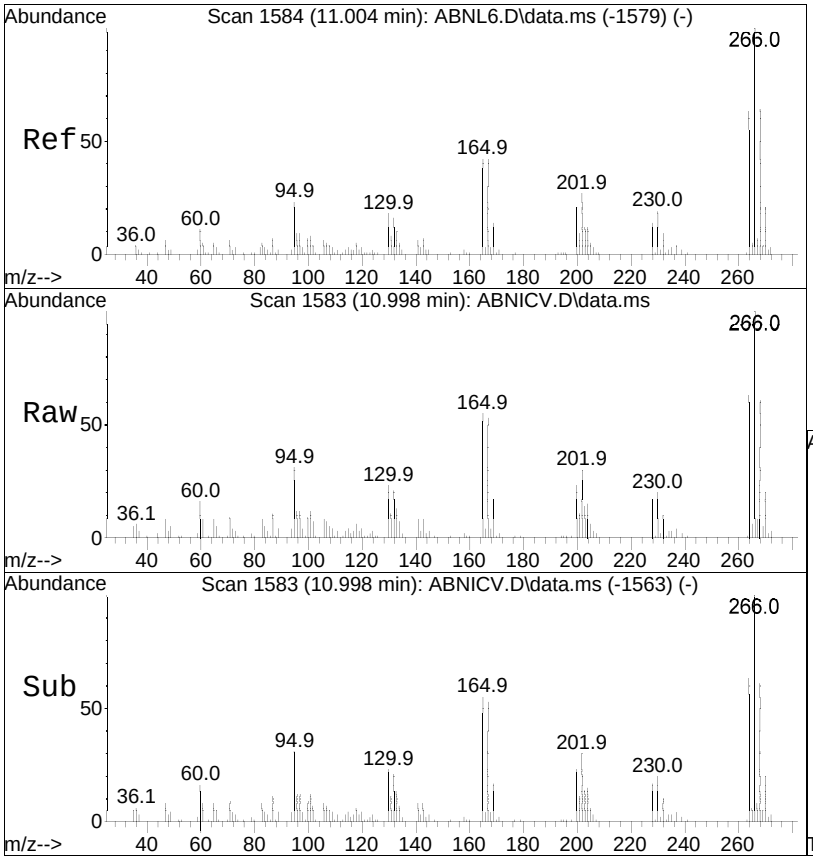


#80
Hexachlorobenzene
Concen: 5.39 ug/ml
RT: 10.810 min Scan# 1551
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:284 Resp: 64431

Ion	Ratio	Lower	Upper
284	100		
142	40.3	41.9	62.9#
249	32.3	24.1	36.1

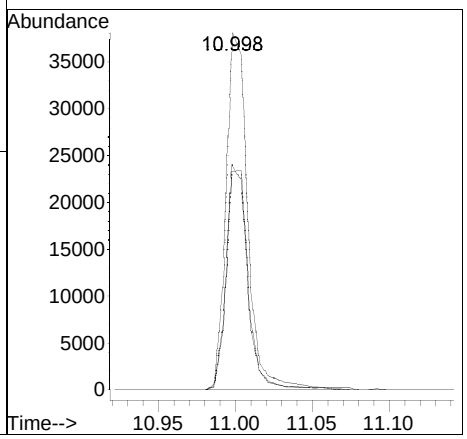


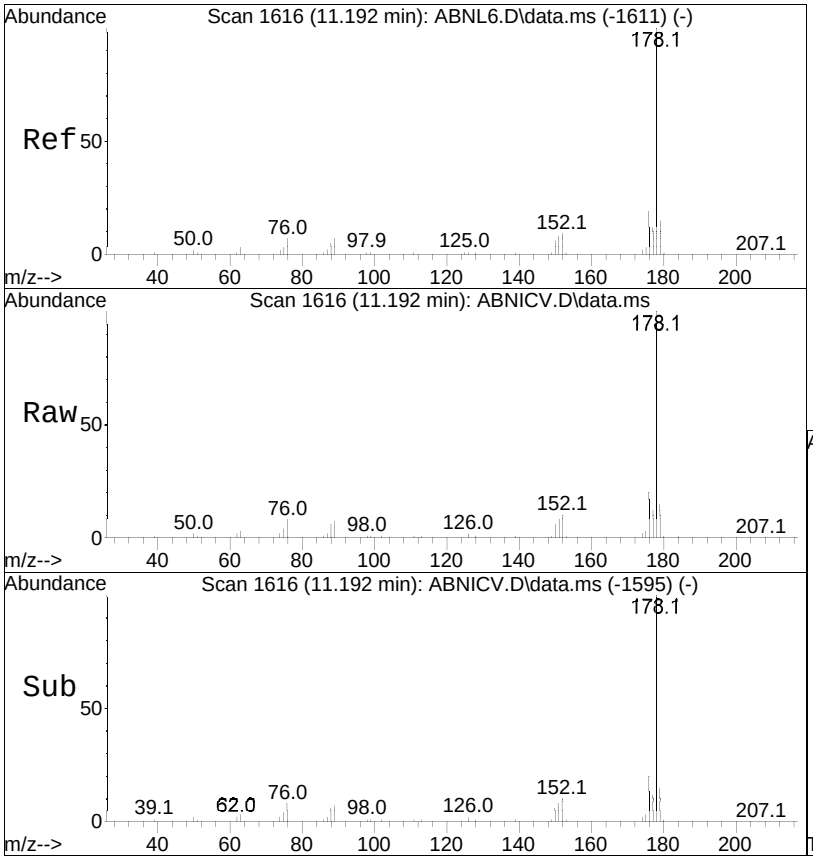


#81
Pentachlorophenol
Concen: 5.36 ug/ml
RT: 10.998 min Scan# 1583
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:266 Resp: 37359

Ion	Ratio	Lower	Upper
266	100		
264	62.2	49.7	74.5
268	62.8	50.5	75.7

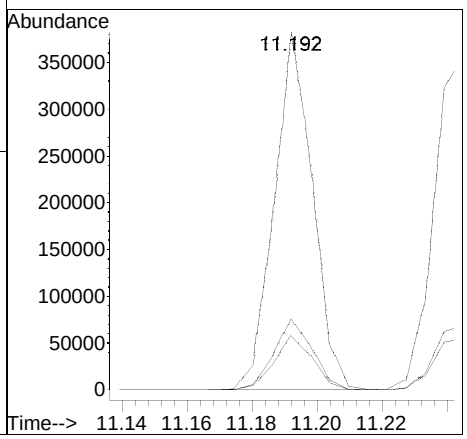


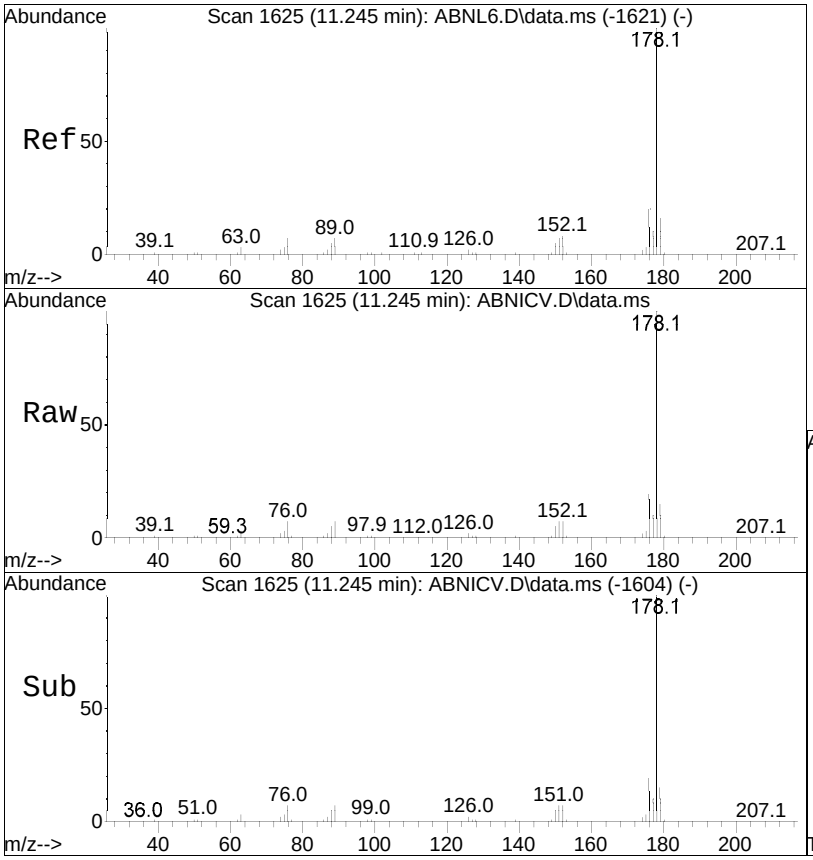


#88
Phenanthrene
Concen: 5.28 ug/ml
RT: 11.192 min Scan# 1616
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:178 Resp: 311941

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.2
176	19.8	15.4	23.2

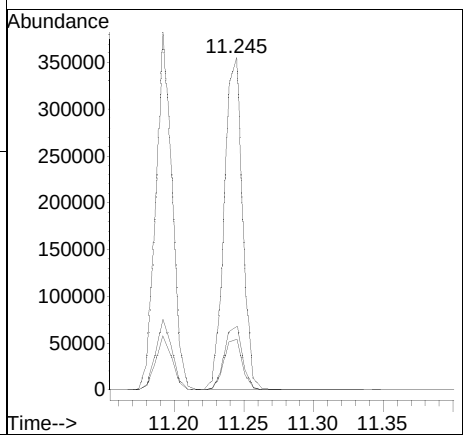


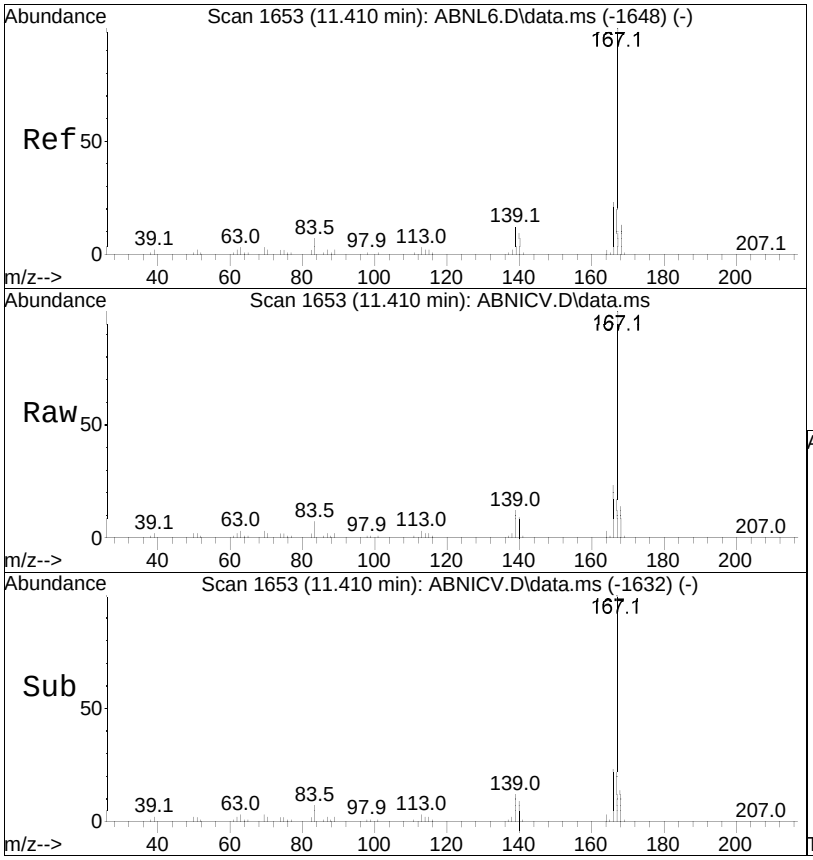


#89
Anthracene
Concen: 5.52 ug/ml
RT: 11.245 min Scan# 1625
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:178 Resp: 323617

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.0	18.0
176	19.2	14.6	22.0

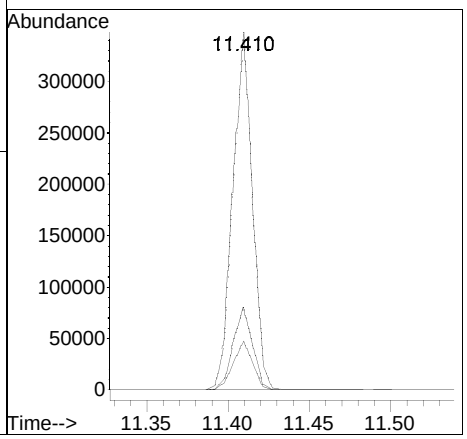


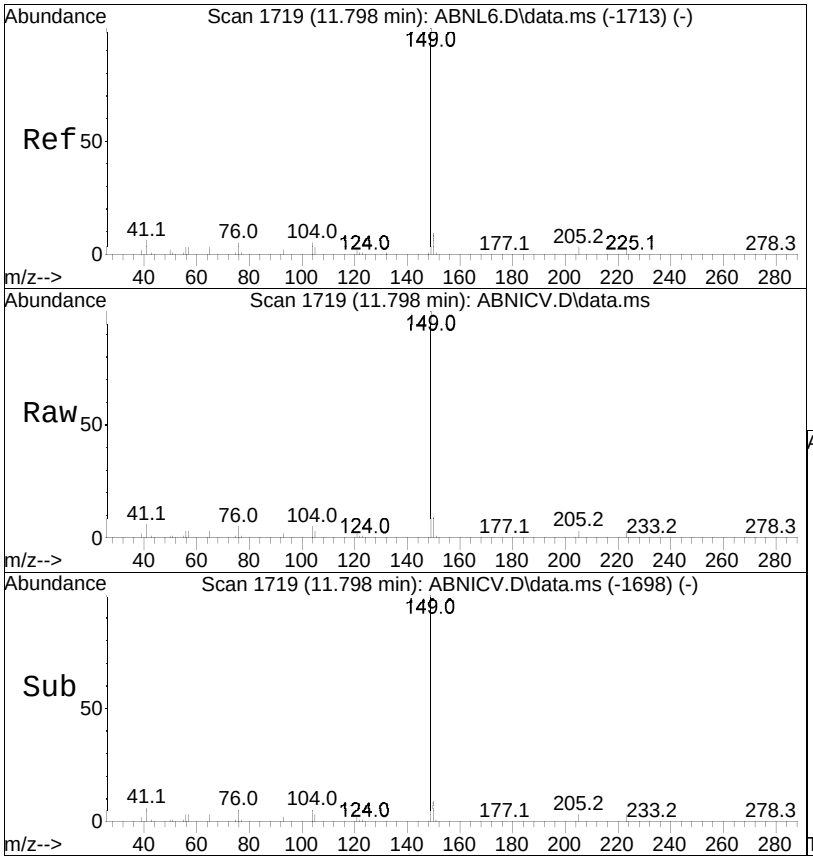


#90
Carbazole
Concen: 5.45 ug/ml
RT: 11.410 min Scan# 1653
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:167 Resp: 287846

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	23.0	17.4	26.0

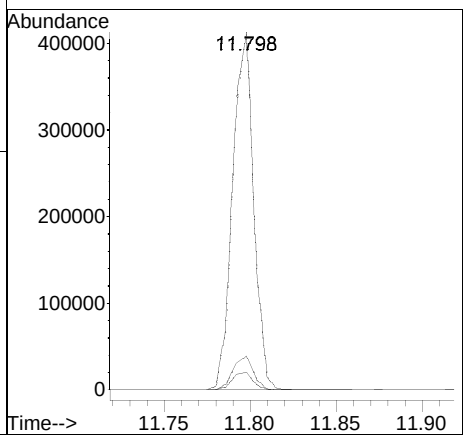


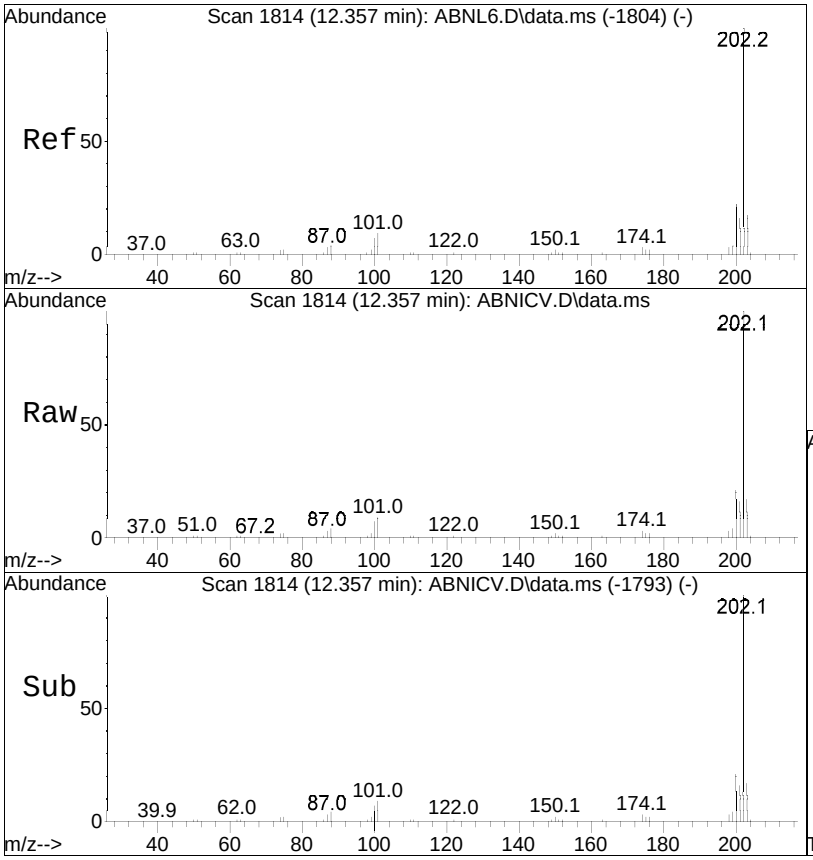


#91
Di-n-butylphthalate
Concen: 5.55 ug/ml
RT: 11.798 min Scan# 1719
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 343566

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	5.0	4.5	6.7

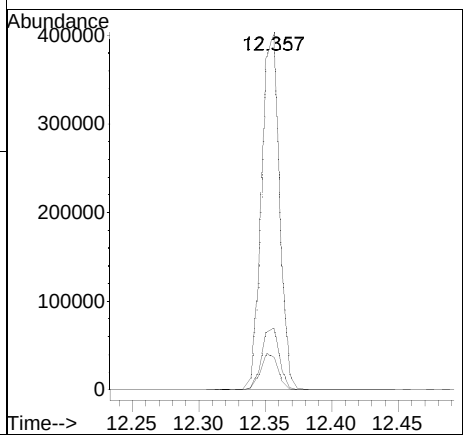


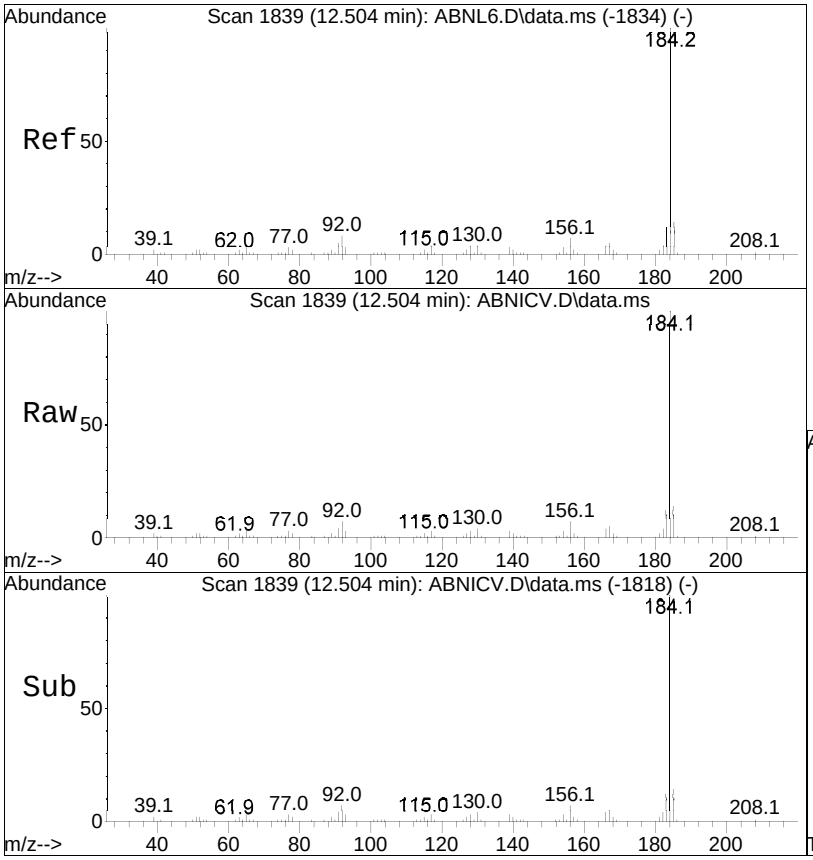


#92
Fluoranthene
Concen: 5.51 ug/ml
RT: 12.357 min Scan# 1814
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:202 Resp: 371982

Ion	Ratio	Lower	Upper
202	100		
101	10.2	13.5	20.3#
203	17.4	13.6	20.4

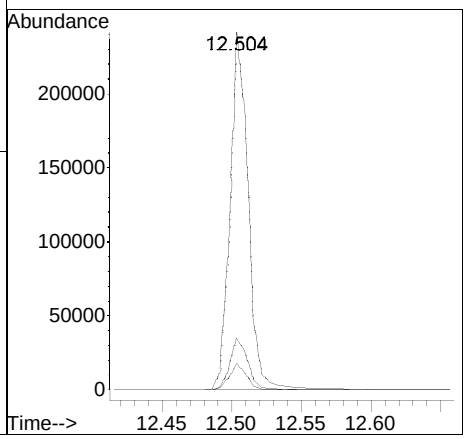


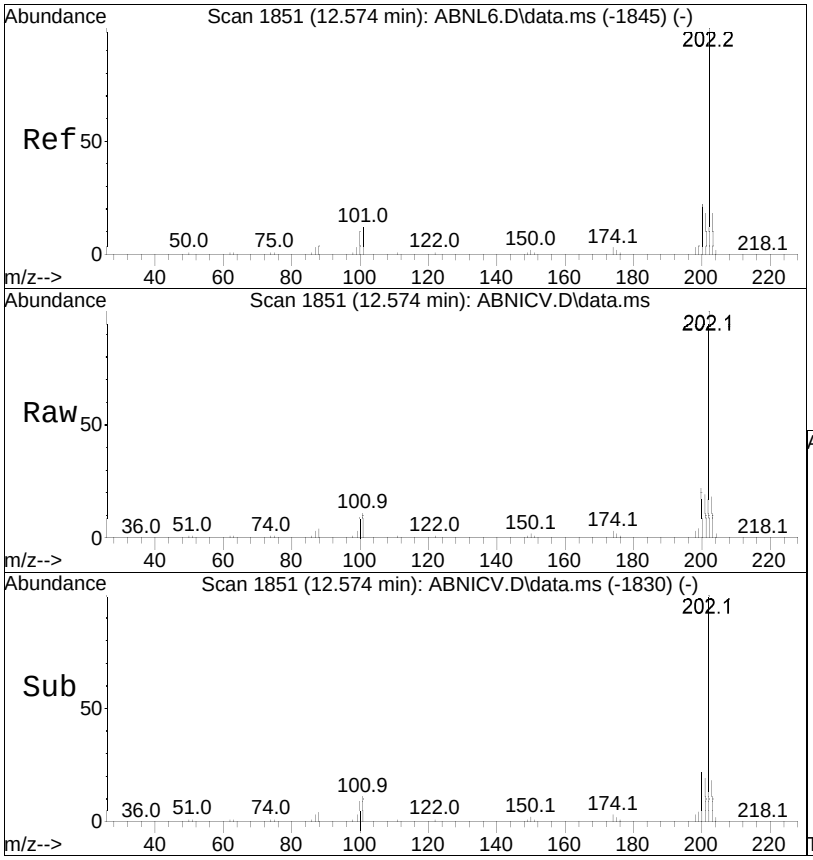


#93
Benzidine
Concen: 5.23 ug/ml
RT: 12.504 min Scan# 1839
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:184 Resp: 214564

Ion	Ratio	Lower	Upper
184	100		
92	7.1	9.1	13.7#
185	14.5	11.1	16.7

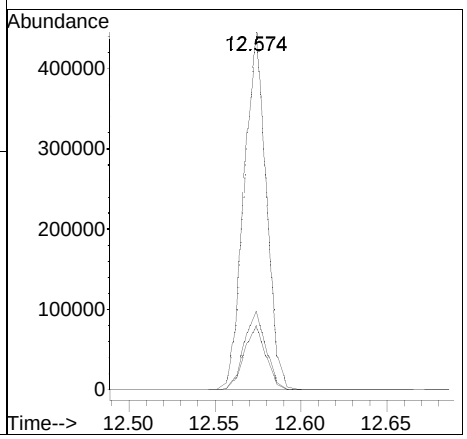


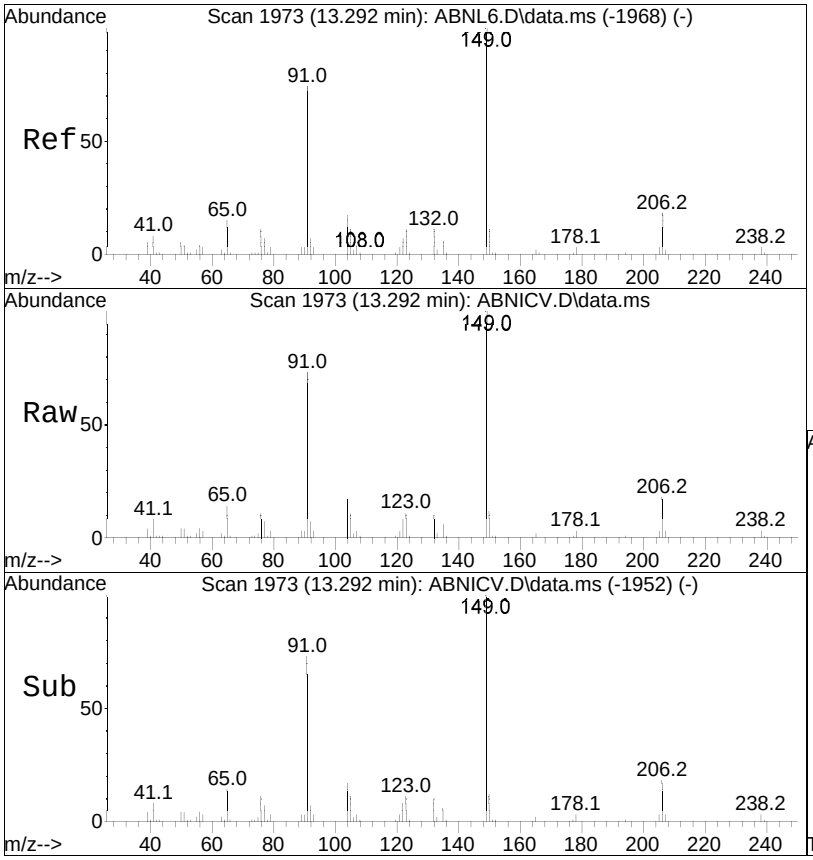


#94
Pyrene
Concen: 5.49 ug/ml
RT: 12.574 min Scan# 1851
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:202 Resp: 396732

Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.7	25.1
203	17.6	14.2	21.4

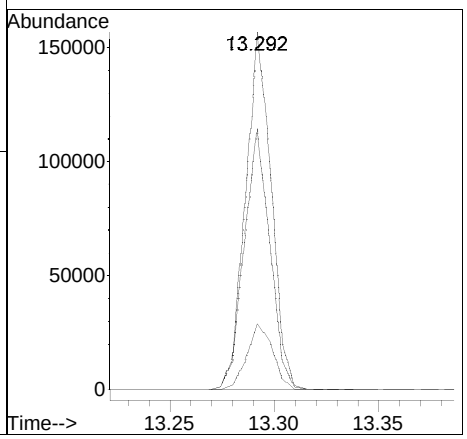


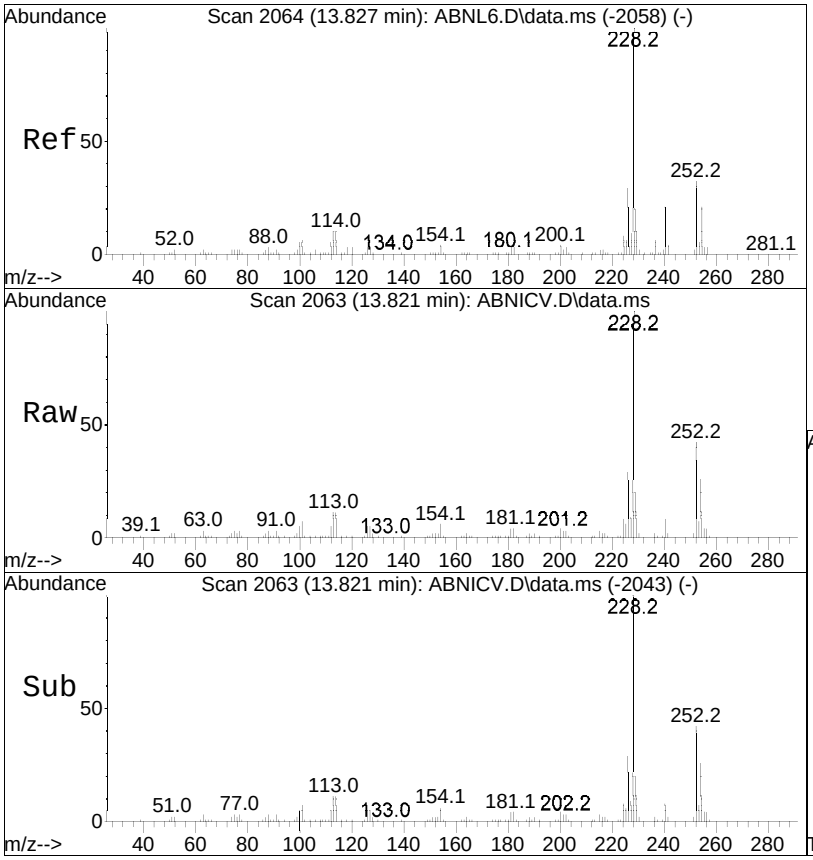


#96
Butyl benzyl phthalate
Concen: 4.56 ug/ml
RT: 13.292 min Scan# 1973
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 132785

Ion	Ratio	Lower	Upper
149	100		
91	73.3	63.3	94.9
206	18.7	13.9	20.9

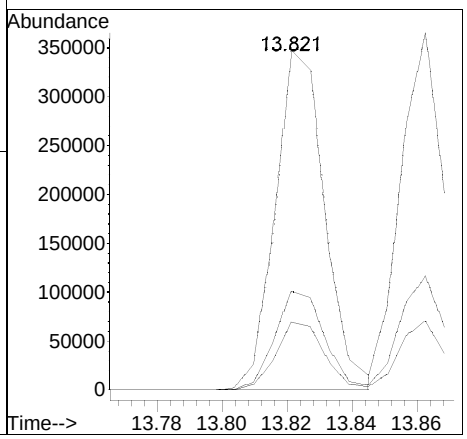


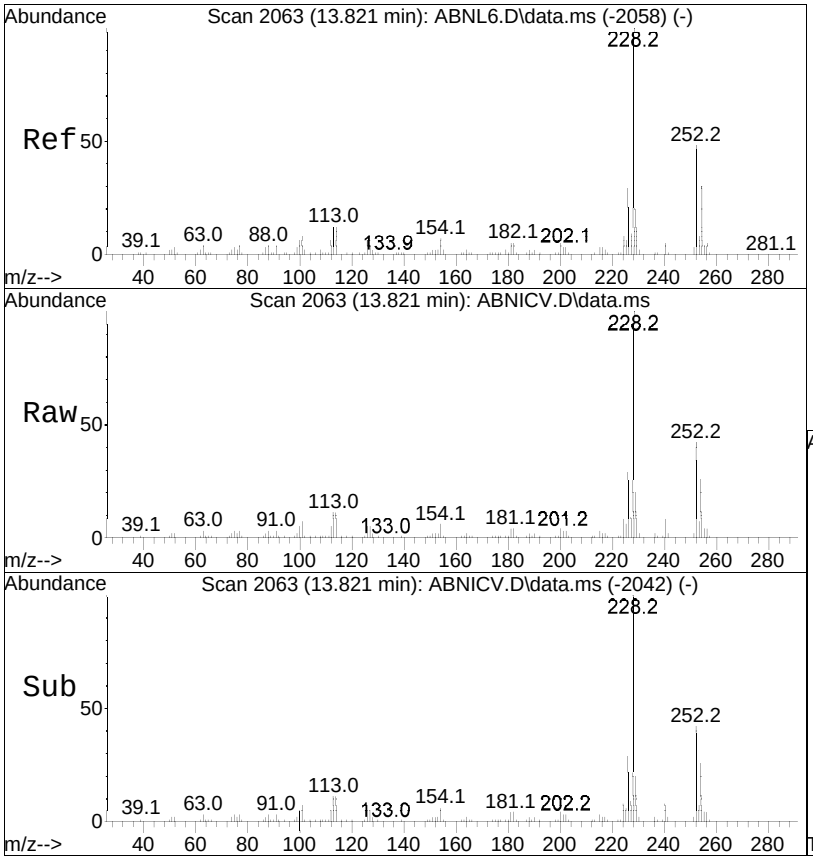


#104
Benzo(a)anthracene
Concen: 5.46 ug/ml
RT: 13.821 min Scan# 2063
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:228 Resp: 366917

Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.2	33.4
229	19.8	15.6	23.4

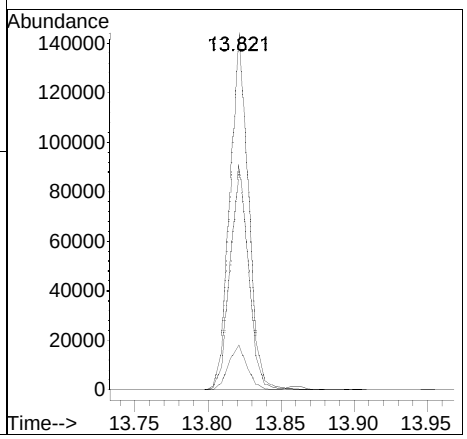


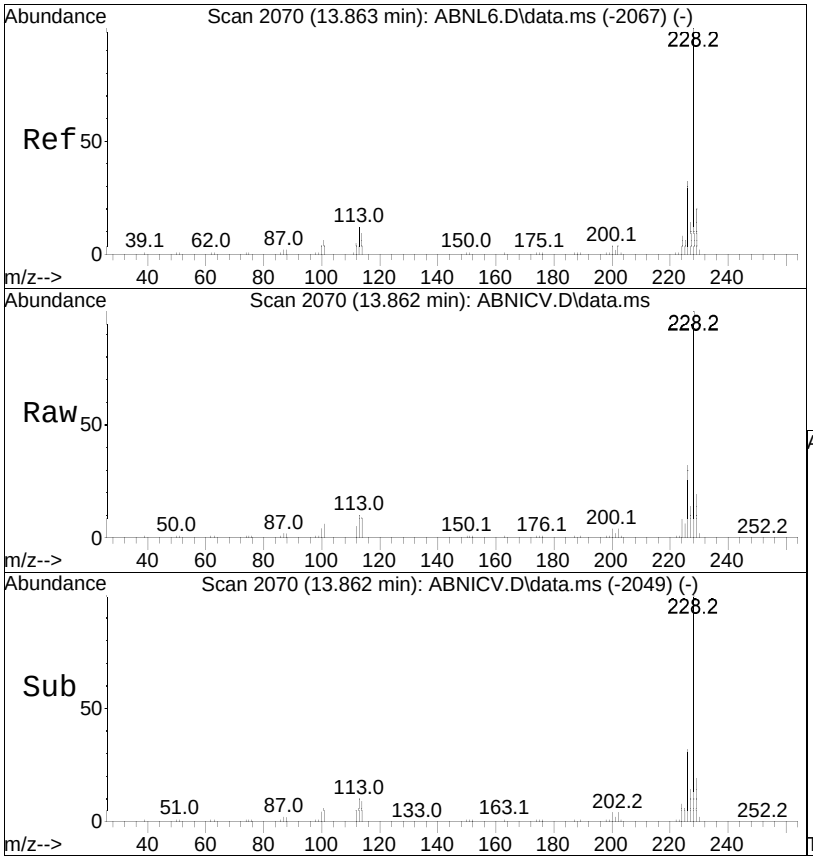


#105
3,3'-Dichlorobenzidine
Concen: 5.81 ug/ml
RT: 13.821 min Scan# 2063
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 125706

Ion	Ratio	Lower	Upper
252	100		
126	13.0	14.5	21.7#
254	63.1	51.2	76.8

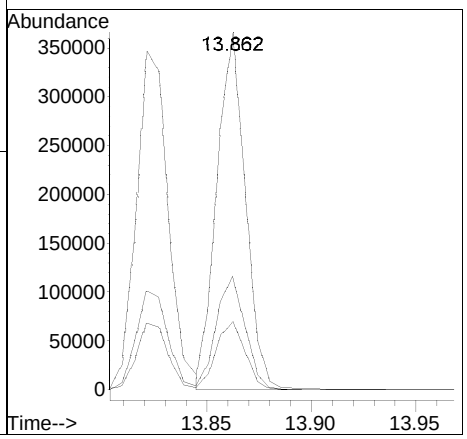


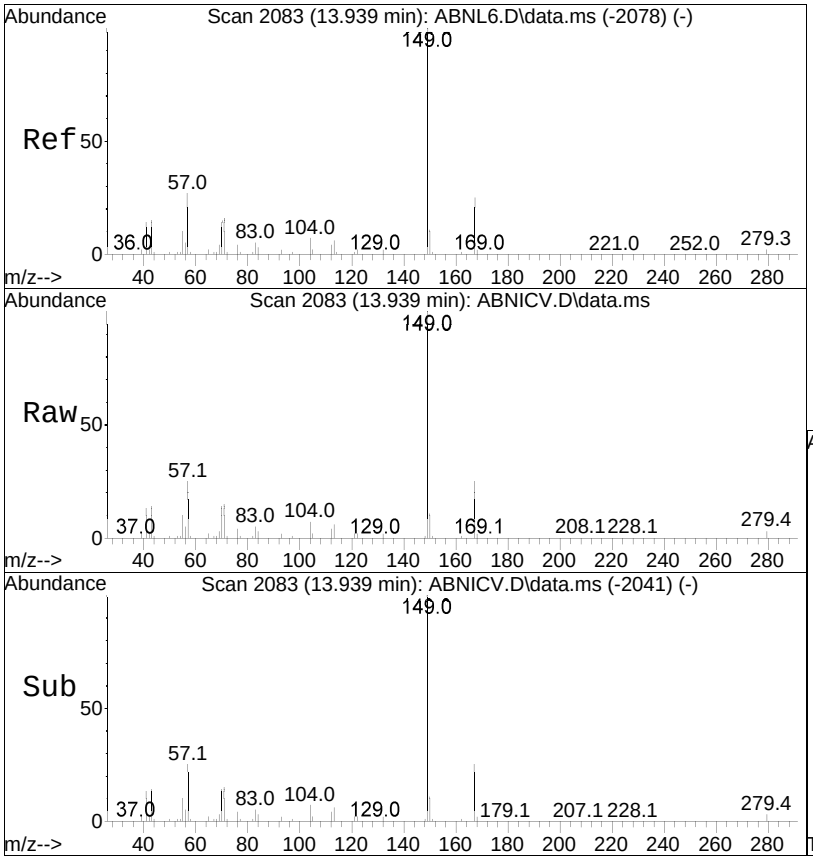


#106
Chrysene
Concen: 5.42 ug/ml
RT: 13.862 min Scan# 2070
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:228 Resp: 347792

Ion	Ratio	Lower	Upper
228	100		
226	32.2	24.0	36.0
229	19.5	15.8	23.8

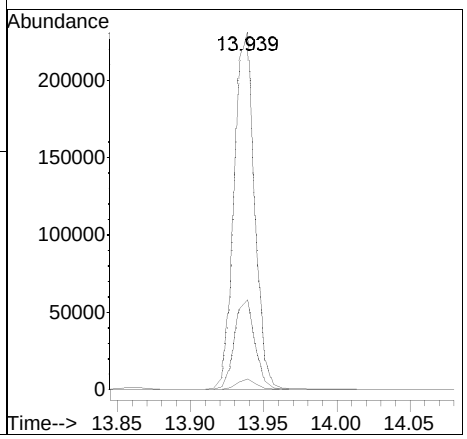


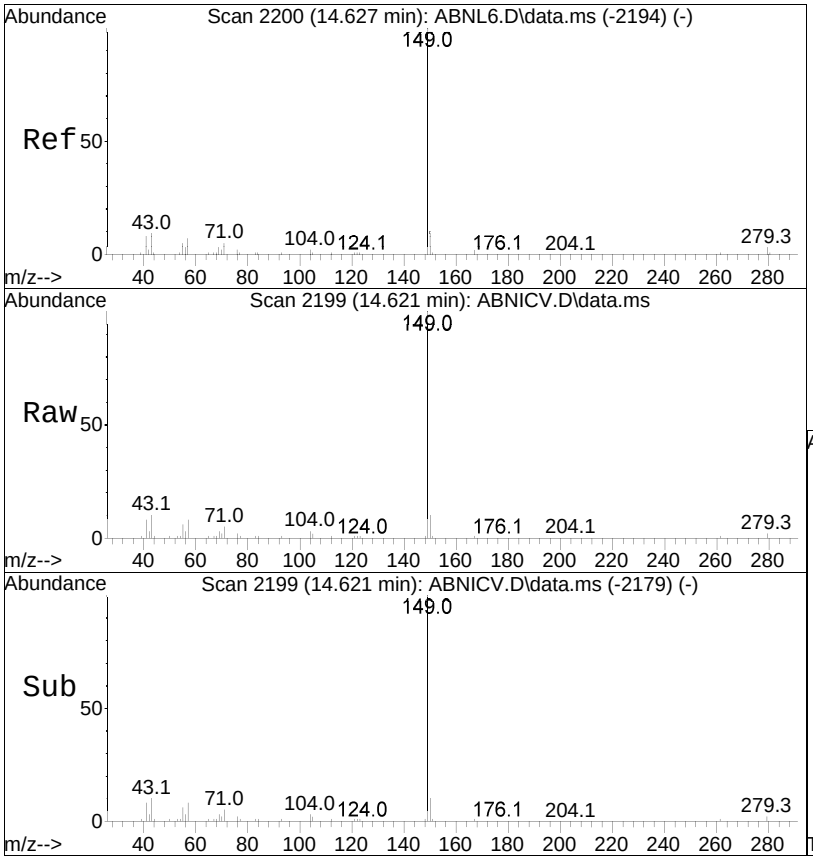


#107
Bis(2-ethylhexyl)phthalate
Concen: 5.14 ug/ml
RT: 13.939 min Scan# 2083
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 222853

Ion	Ratio	Lower	Upper
149	100		
167	25.1	22.1	33.1
279	2.5	3.0	4.4#

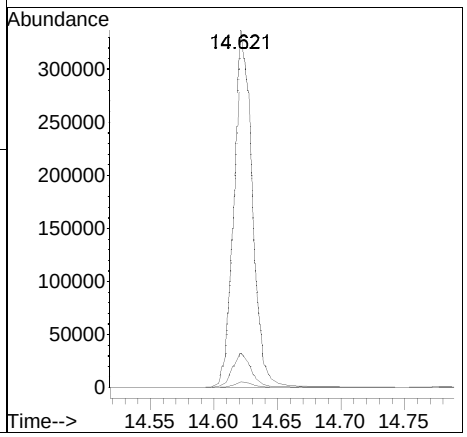


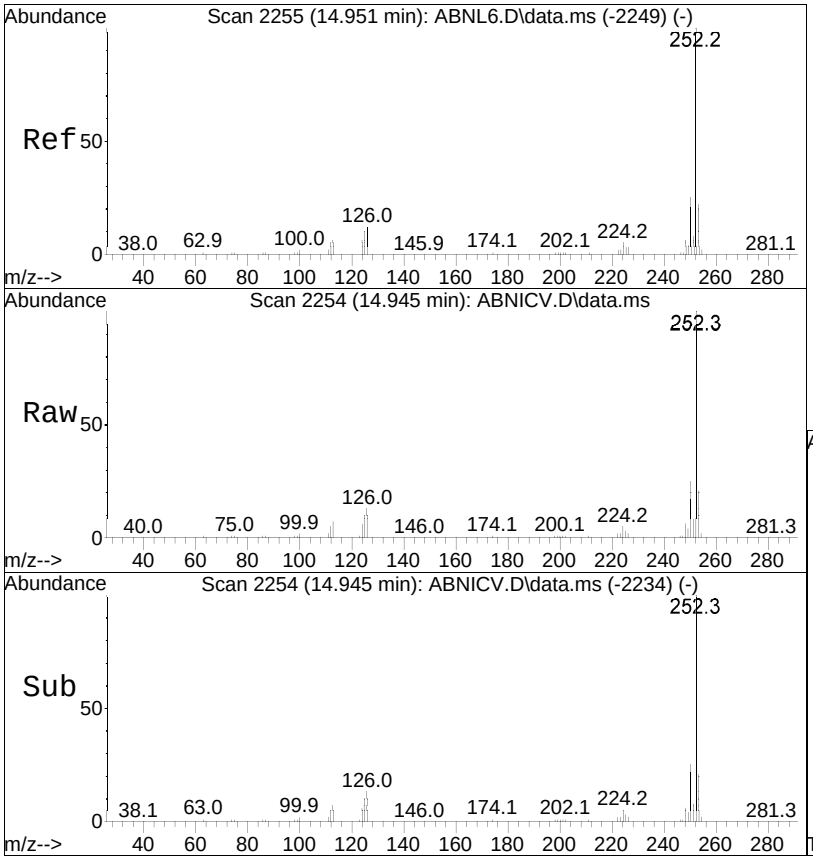


#108
Di-n-octylphthalate
Concen: 4.74 ug/ml
RT: 14.621 min Scan# 2199
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 332901

Ion	Ratio	Lower	Upper
149	100		
43	10.2	18.8	28.2#
167	1.4	1.3	1.9

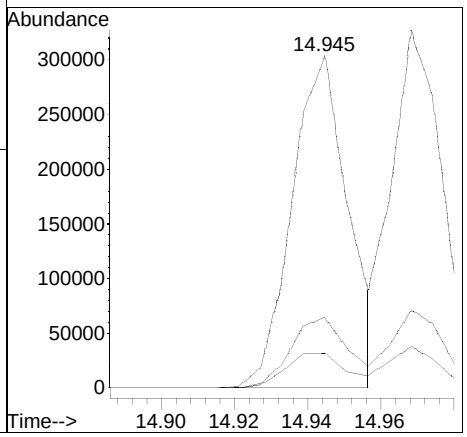


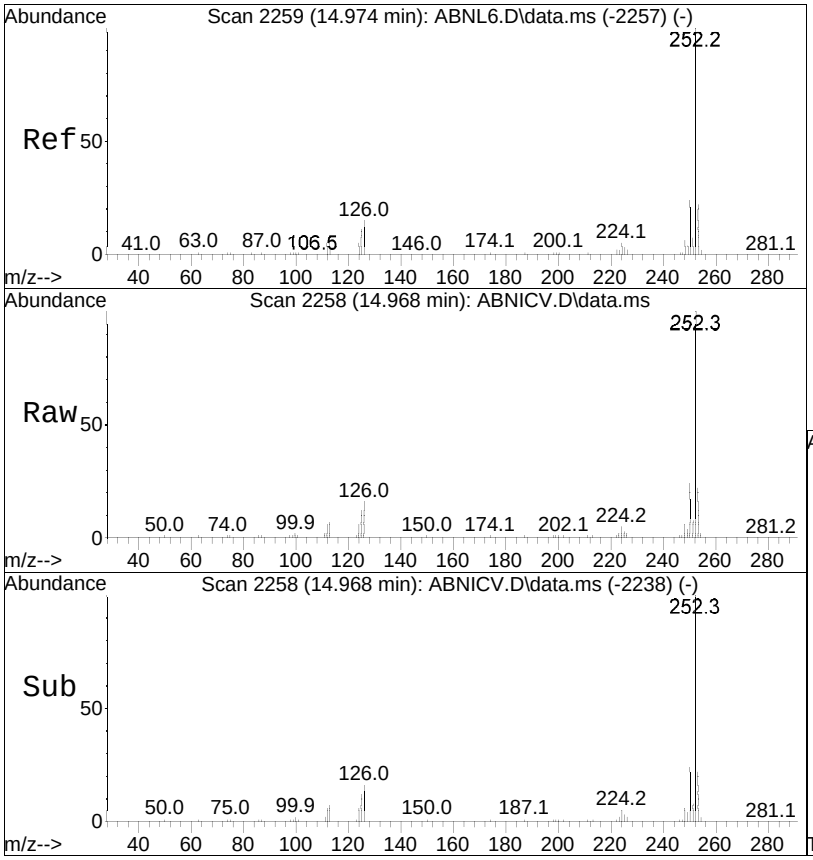


#109
Benzo(b)fluoranthene
Concen: 5.54 ug/ml
RT: 14.945 min Scan# 2254
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 328567

Ion	Ratio	Lower	Upper
252	100		
125	11.4	13.3	19.9#
253	21.8	17.1	25.7

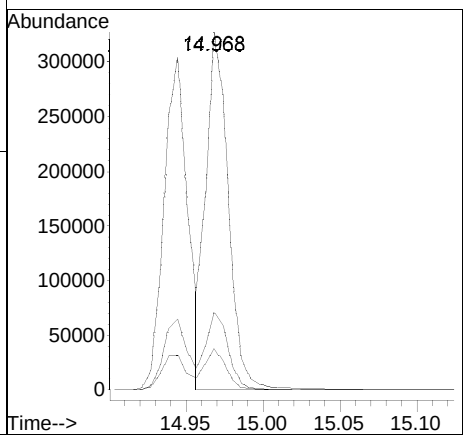


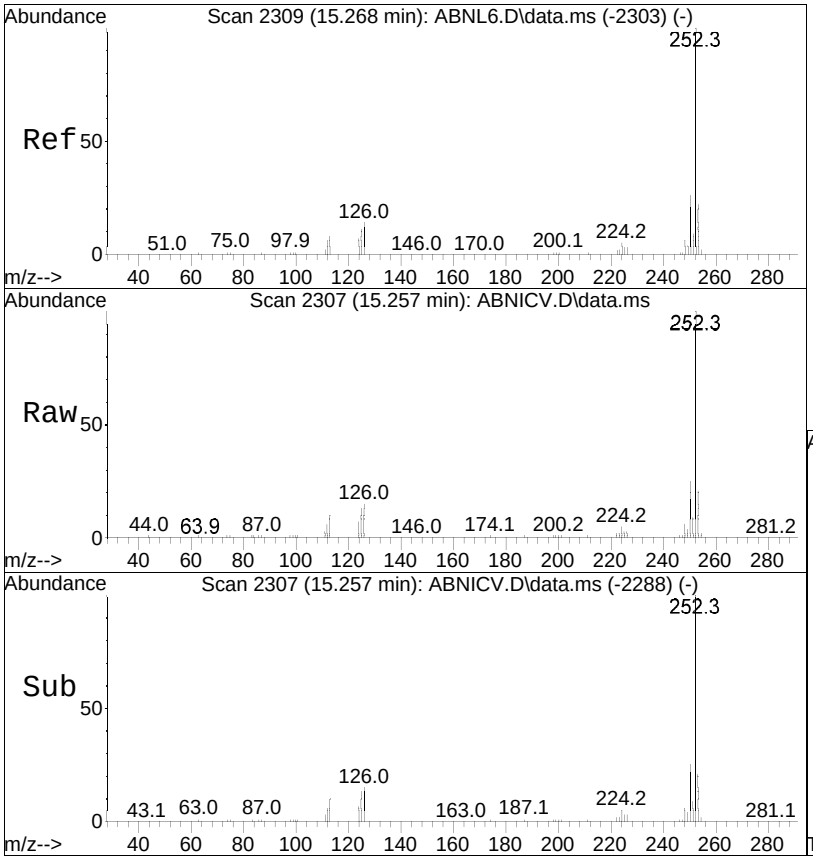


#110
Benzo(k)fluoranthene
Concen: 5.63 ug/ml
RT: 14.968 min Scan# 2258
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 326553

Ion	Ratio	Lower	Upper
252	100		
125	11.0	13.0	19.6#
253	22.0	16.8	25.2

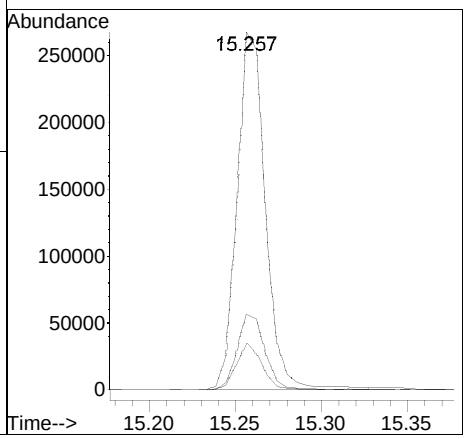


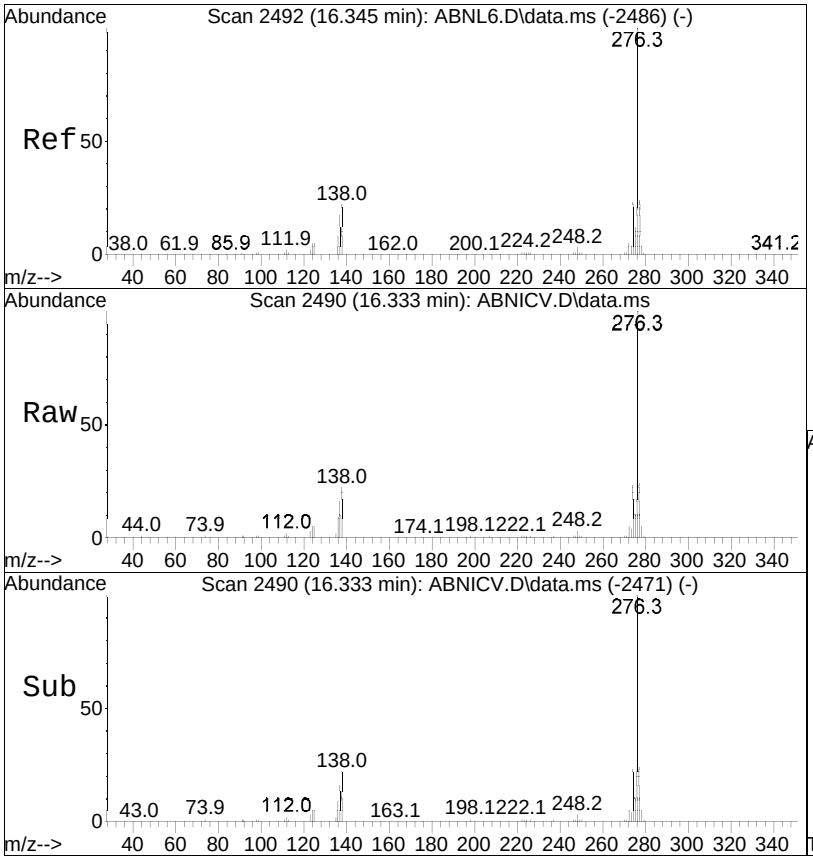


#111
Benzo(a)pyrene
Concen: 5.92 ug/ml
RT: 15.257 min Scan# 2307
Delta R.T. -0.011 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 305124

Ion	Ratio	Lower	Upper
252	100		
125	11.9	14.2	21.2#
253	20.9	16.9	25.3

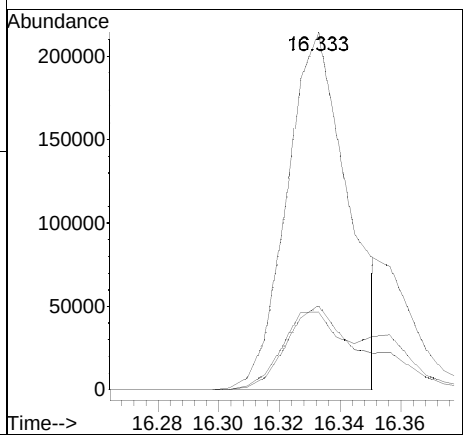


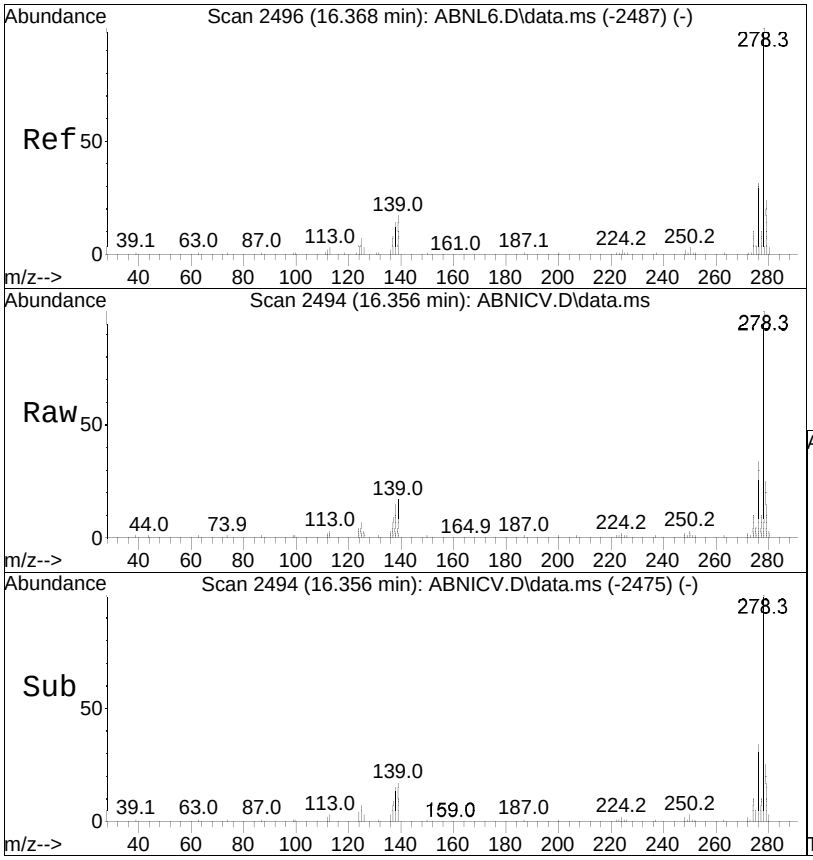


#113
Indeno(1,2,3-cd)pyrene
Concen: 6.28 ug/mL M6
RT: 16.333 min Scan# 2490
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:276 Resp: 303147

Ion	Ratio	Lower	Upper
276	100		
138	34.9	25.1	37.7
277	30.8	18.6	28.0#

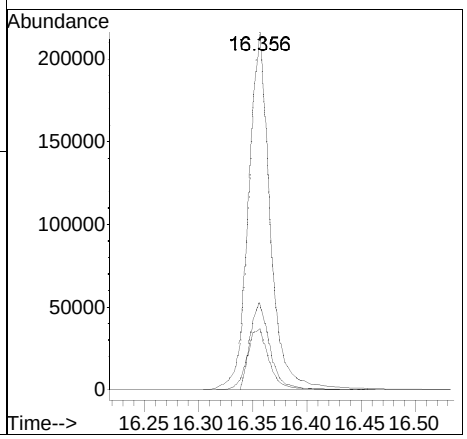


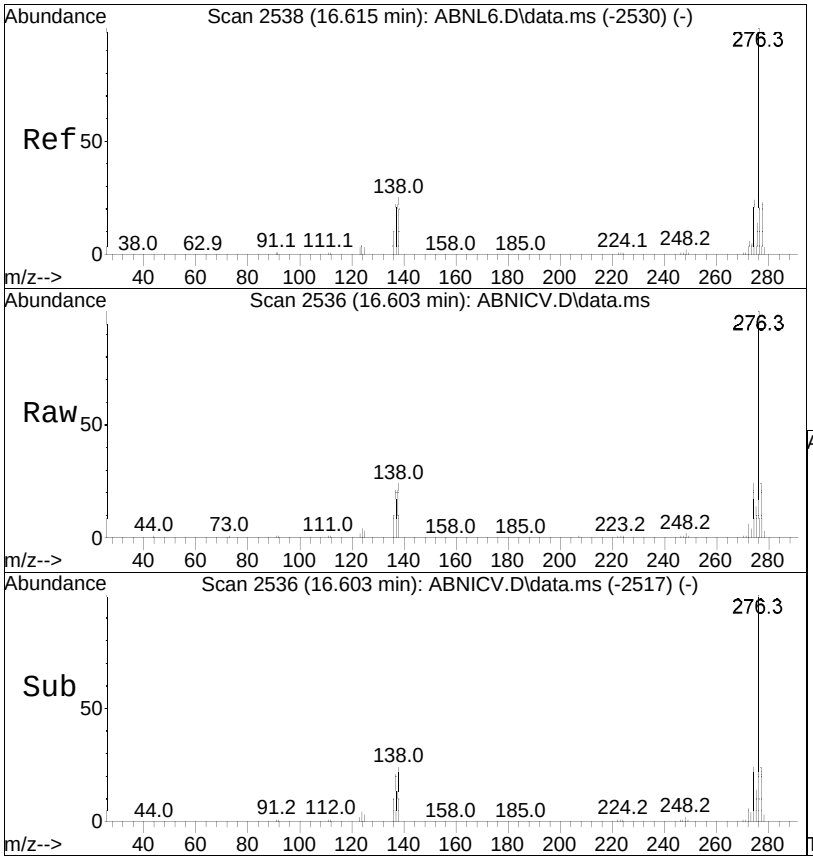


#114
Dibenzo(a,h)anthracene
Concen: 6.18 ug/ml
RT: 16.356 min Scan# 2494
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:278 Resp: 298480

Ion	Ratio	Lower	Upper
278	100		
139	16.6	20.8	31.2#
279	23.8	18.3	27.5

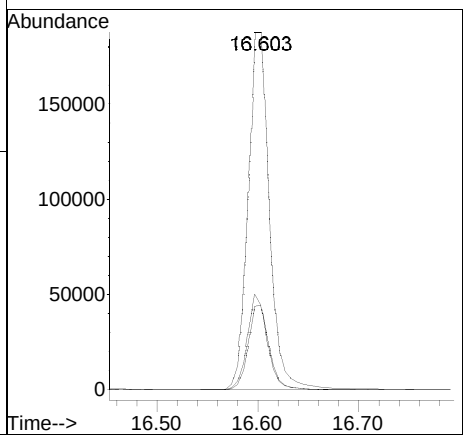




#115
Benzo(ghi)perylene
Concen: 5.79 ug/ml
RT: 16.603 min Scan# 2536
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:276 Resp: 272174

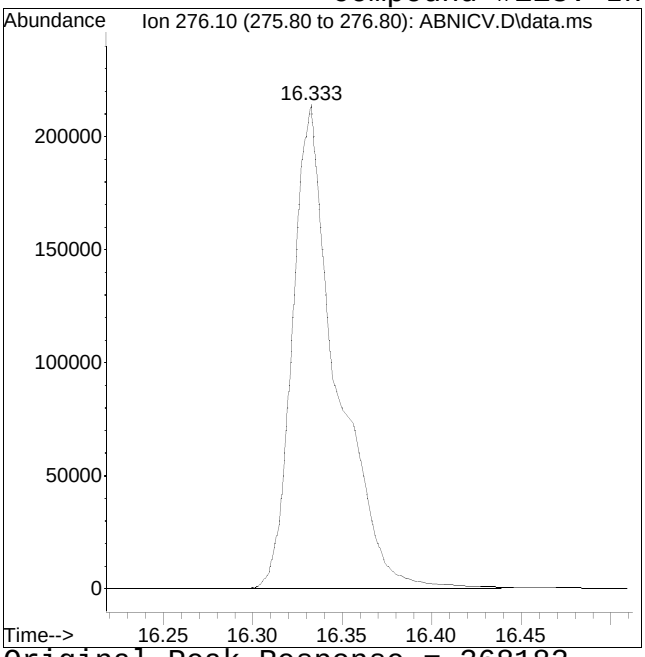
Ion	Ratio	Lower	Upper
276	100		
138	25.4	29.2	43.8#
277	23.6	18.8	28.2



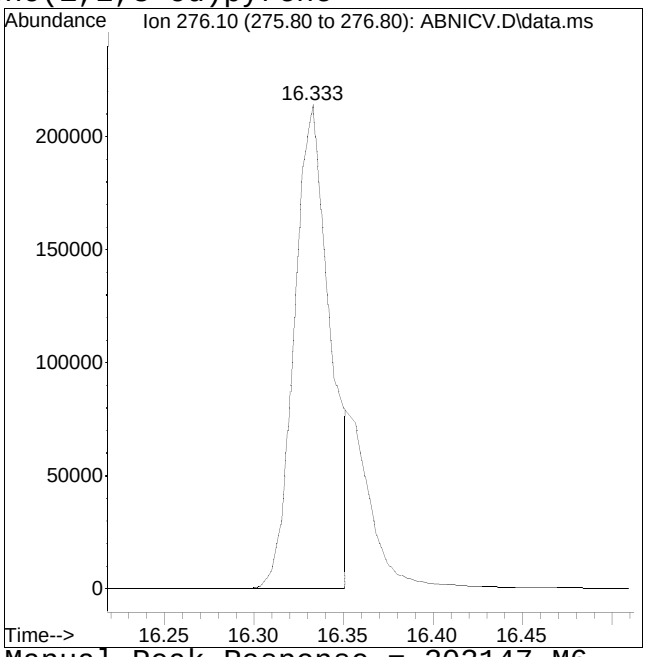
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNICV.D Operator : SV107:jg
Date Inj'd : 6/3/2024 3:14 am Instrument : SV107
Sample : CQICV1,32,,ABNICV Lot# 106 Quant Date : 6/3/2024 4:29 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 368182



Manual Peak Response = 303147 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : AP9ICV.D
Acq On : 3 Jun 2024 3:39 am
Operator : SV107:jg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1929644,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 16:28:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	110	0.00
28	T	Benzaldehyde		1.024	0.995	2.8	114	0.00
29	T	Acetophenone		1.770	1.747	1.3	113	0.00
30	T	m-Toluidine		1.599	1.705	-6.6	114	0.00
31	T	2-Chloroaniline		1.546	1.533	0.8	112	0.00
54	I	IS2_Naphthalene-d8		1.000	1.000	0.0	104	0.00
55	T	a-Terpineol		0.276	0.276	0.0	111	0.00
56	T	3-Chloroaniline		0.147	0.150	-2.0	112	0.00
57	T	2,6-Dichlorophenol		0.290	0.299	-3.1	111	0.00
58	T	1-chloro-2-nitrobenzene		0.121	0.125	-3.3	117	0.00
59	T	Caprolactam		0.149	0.146	2.0	107	0.00
60	T	1,2,4,5-Tetrachlorobenzene		0.402	0.394	2.0	111	0.00
61	T	Biphenyl		0.929	0.909	2.2	111	0.00
82	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	109	0.00
83	T	Dichloran	*	5.000	4.676	6.5	120	0.00
84	T	Pentachloronitrobenzene	*	5.000	4.804	3.9	116	0.00
97	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	105	0.00
98	T	Diphenamid		0.445	0.474	-6.5	114	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9ICV.D
Acq On : 3 Jun 2024 3:39 am
Operator : SV107:jg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1929644,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 16:28:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.534	152	48775	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery = 109.84%				
54) IS2_Naphthalene-d8	7.957	136	176755	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery = 104.23%				
82) IS2_Acenaphthene-d10	9.728	164	108771	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery = 108.94%				
97) IS2_Phenanthrene-d10	11.169	188	224732	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery = 104.55%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.963	105	60668	4.860	ug/ml		98
29) Acetophenone	7.022	105	106516	4.935	ug/ml	#	83
30) m-Toluidine	7.122	106	103936	5.330	ug/ml		94
31) 2-Chloroaniline	7.528	127	93473	4.957	ug/ml	#	93
55) a-Terpineol	8.022	59	60976	4.992	ug/ml	#	78
56) 3-Chloroaniline	8.034	65	33250	5.106	ug/ml		88
57) 2,6-Dichlorophenol	8.063	162	66015	5.153	ug/ml	#	87
58) 1-chloro-2-nitrobenzene	8.334	111	27611	5.157	ug/ml	#	1
59) Caprolactam	8.369	55	32169	4.882	ug/ml	#	68
60) 1,2,4,5-Tetrachloroben...	8.869	216	87005	4.897	ug/ml		96
61) Biphenyl	9.175	154	200775	4.891	ug/ml		100
83) Dichloran	10.863	206	16902	4.676	ug/ml	#	75
84) Pentachloronitrobenzene	11.016	237	19356	4.804	ug/ml	#	84
98) Diphenamid	12.074	167	133073	5.323	ug/ml		82

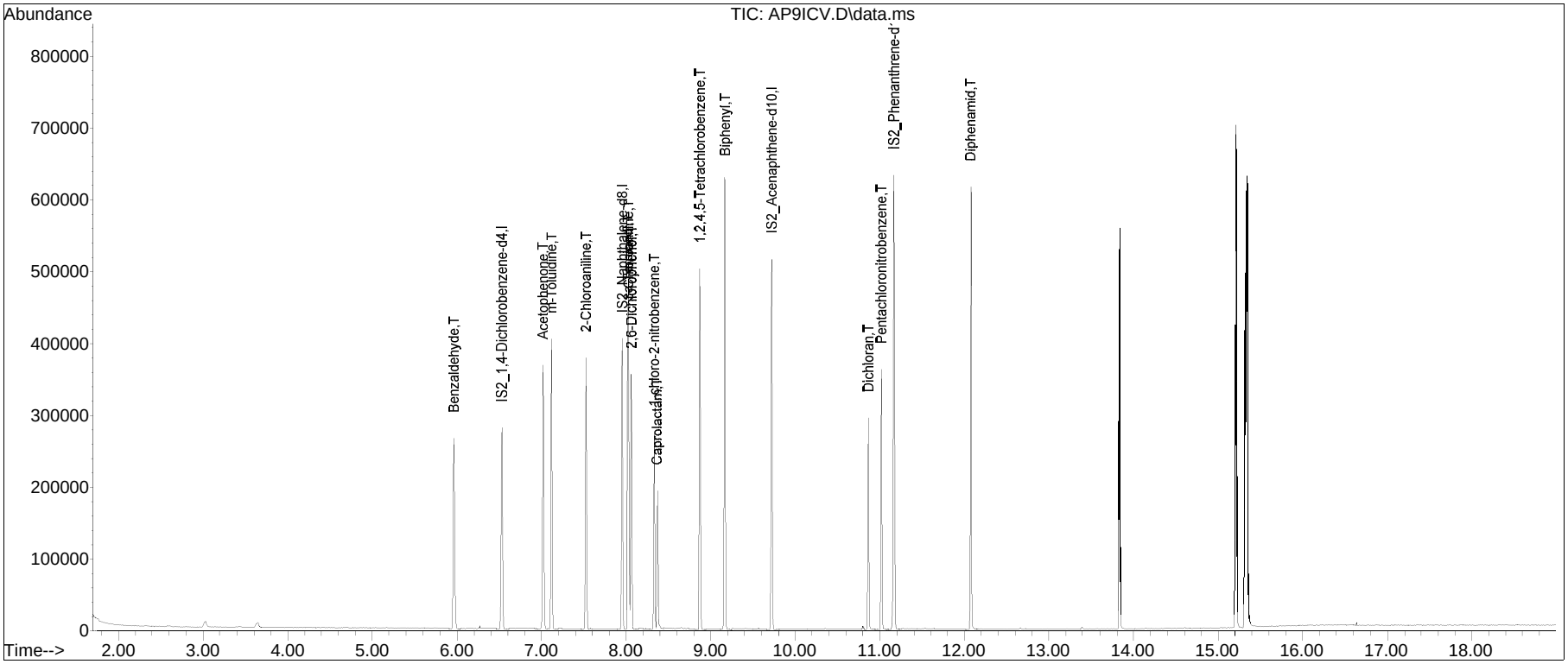
(#) = qualifier out of range (m) = manual integration (+) = signals summed

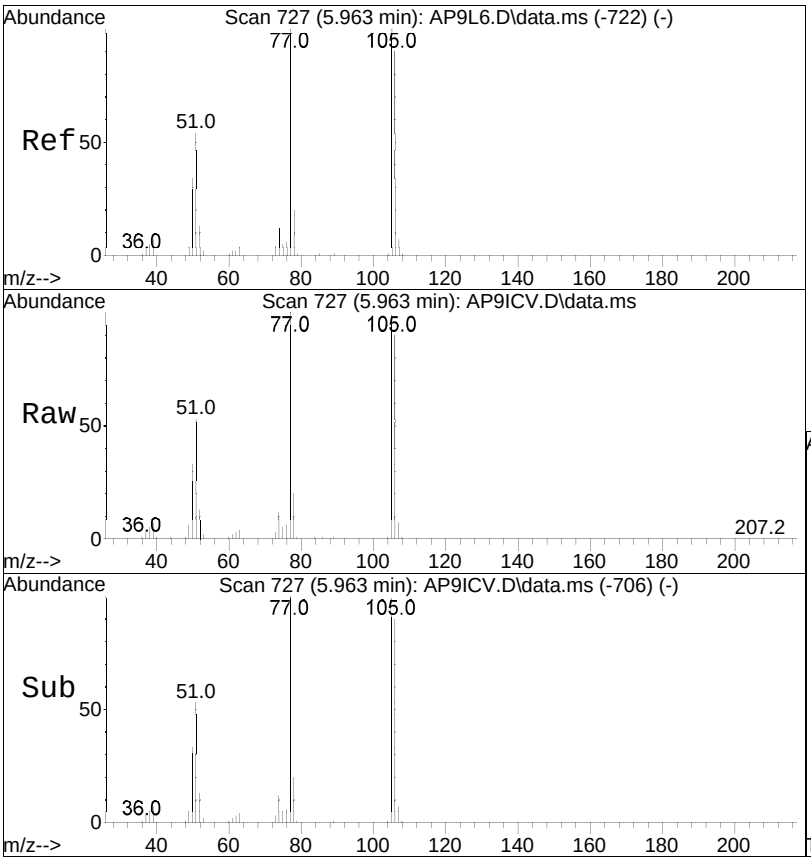
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9ICV.D
Acq On : 3 Jun 2024 3:39 am
Operator : SV107:jg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1929644,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 16:28:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•

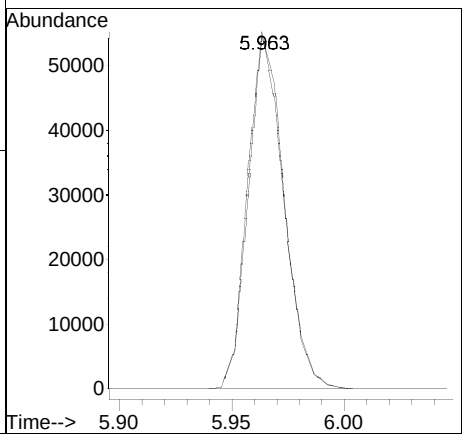


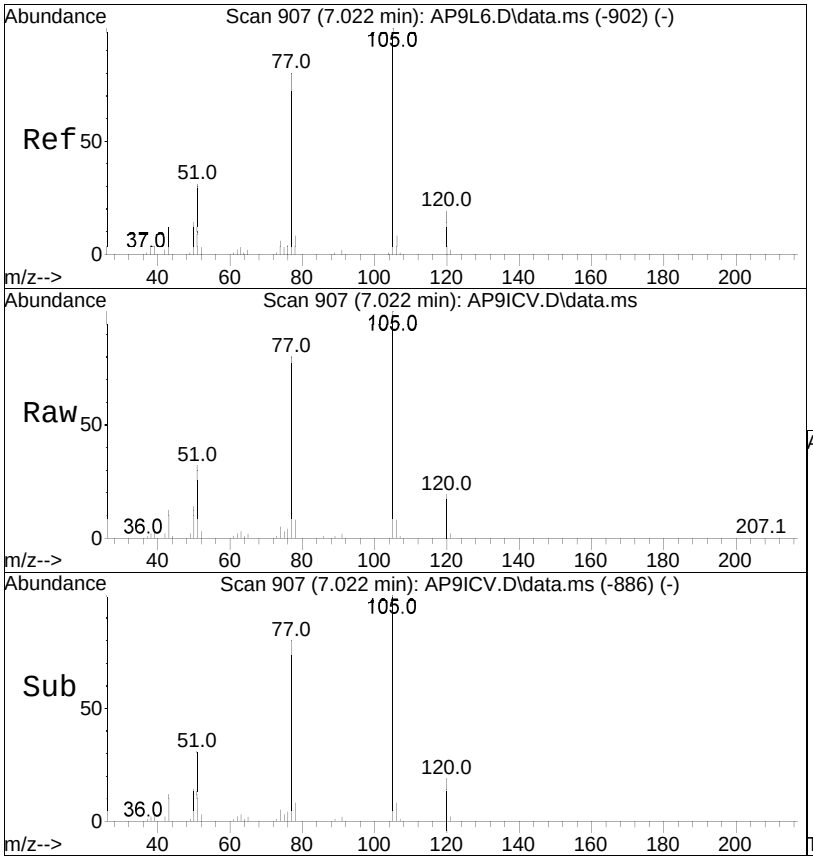


#28
Benzaldehyde
Concen: 4.86 ug/ml
RT: 5.963 min Scan# 727
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:105 Resp: 60668

Ion	Ratio	Lower	Upper
105	100		
77	100.4	82.2	123.4

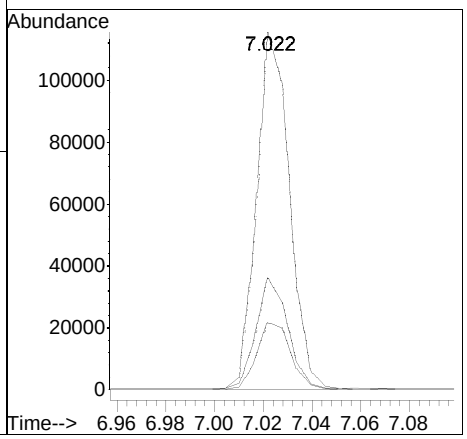


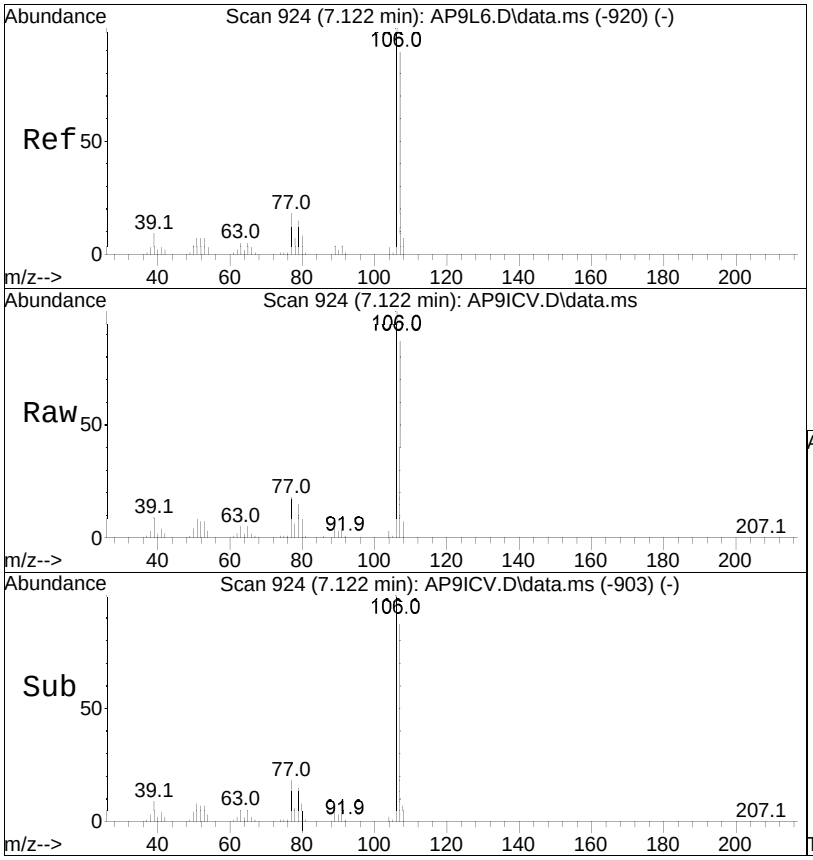


#29
Acetophenone
Concen: 4.93 ug/ml
RT: 7.022 min Scan# 907
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:105 Resp: 106516

Ion	Ratio	Lower	Upper
105	100		
120	19.6	20.5	30.7#
51	30.5	34.9	52.3#

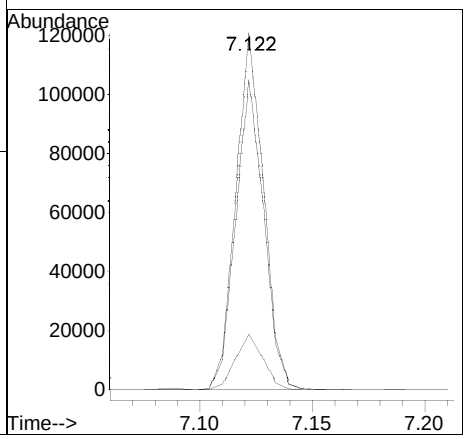


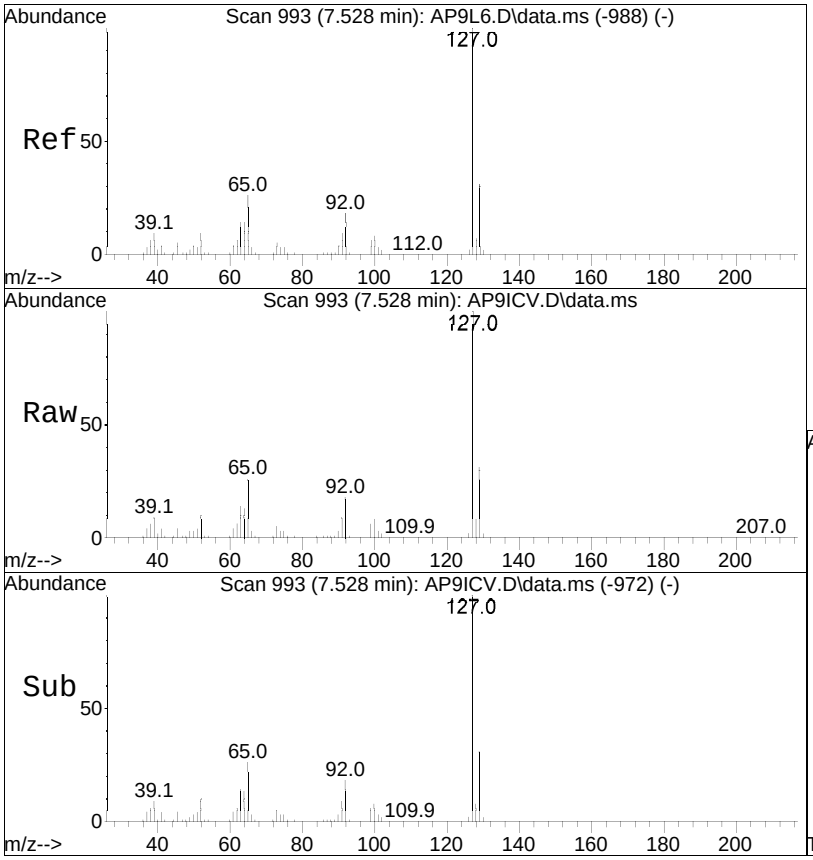


#30
m-Toluidine
Concen: 5.33 ug/ml
RT: 7.122 min Scan# 924
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:106 Resp: 103936

Ion	Ratio	Lower	Upper
106	100		
107	87.7	75.7	113.5
79	15.5	11.8	17.8

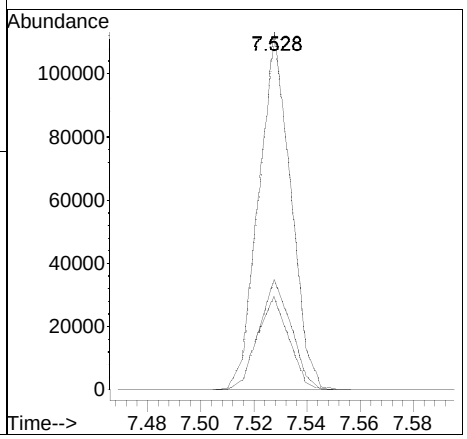


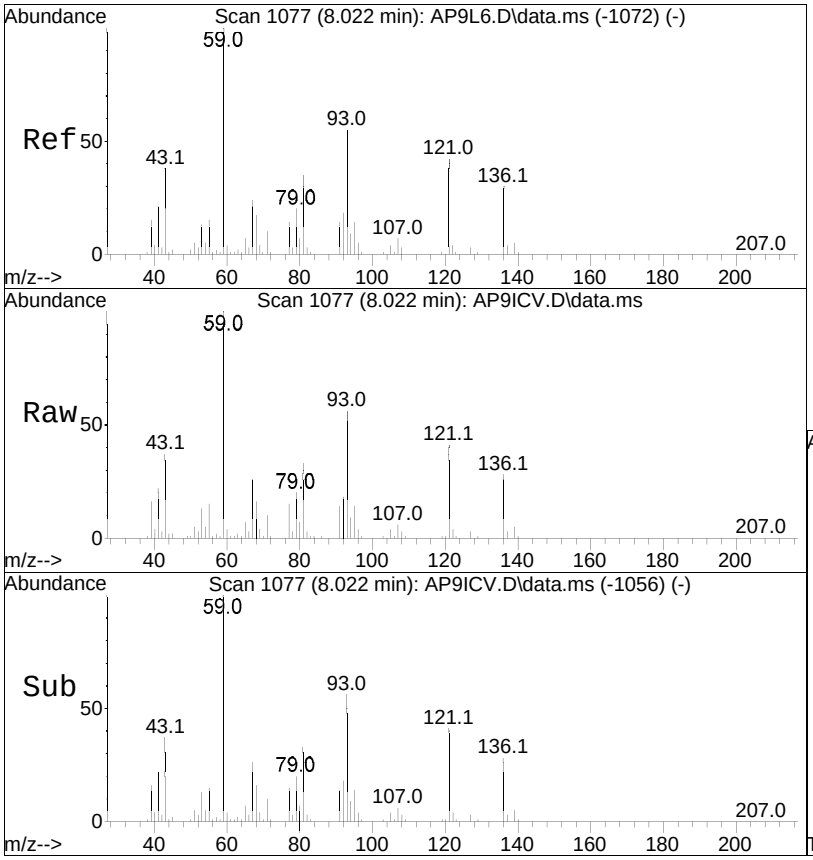


#31
2-Chloroaniline
Concen: 4.96 ug/ml
RT: 7.528 min Scan# 993
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:127 Resp: 93473

Ion	Ratio	Lower	Upper
127	100		
129	31.4	25.9	38.9
65	26.1	26.3	39.5#

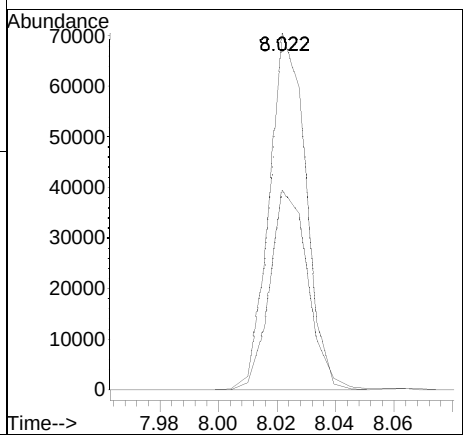


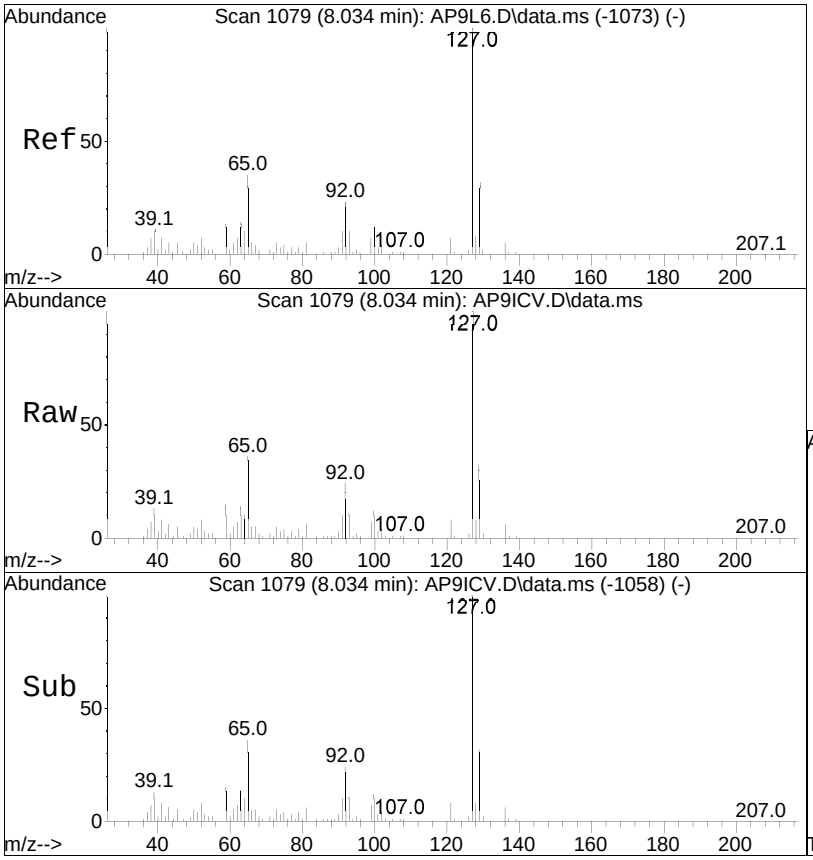


#55
a-Terpineol
Concen: 4.99 ug/ml
RT: 8.022 min Scan# 1077
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion: 59 Resp: 60976

Ion	Ratio	Lower	Upper
59	100		
93	59.0	35.6	53.4#

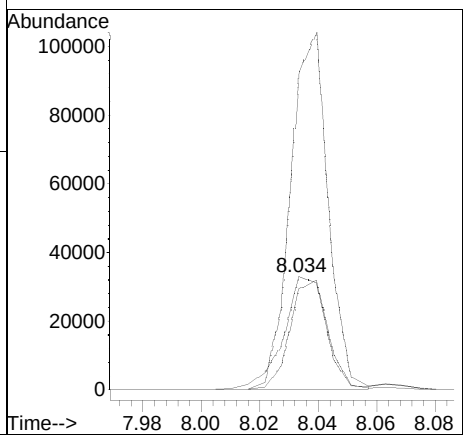


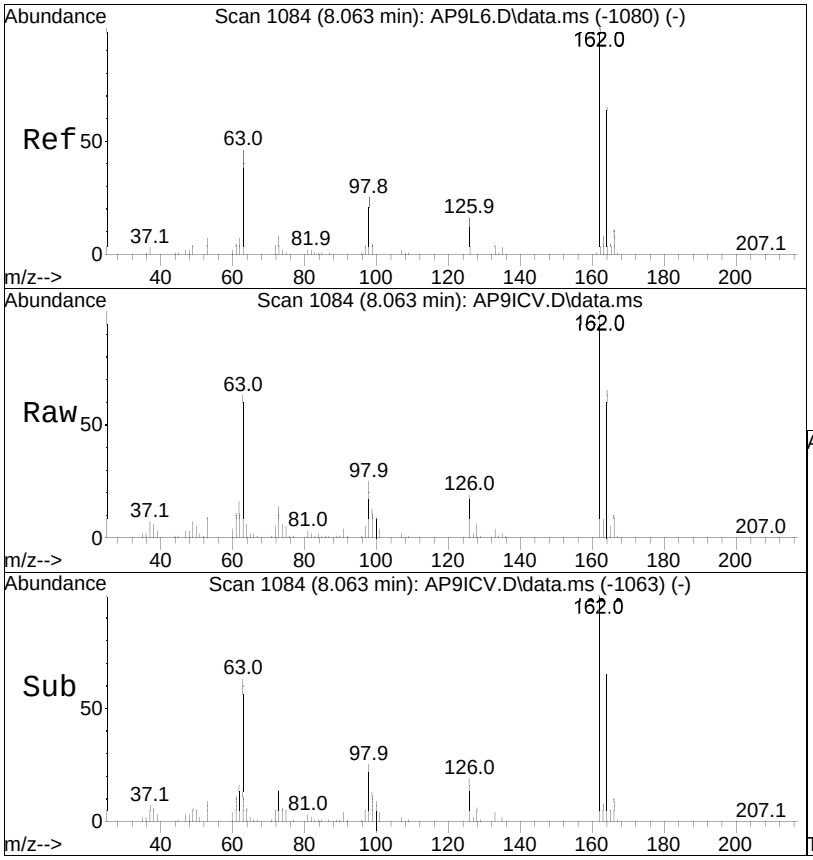


#56
3-Chloroaniline
Concen: 5.11 ug/ml
RT: 8.034 min Scan# 1079
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion: 65 Resp: 33250

Ion	Ratio	Lower	Upper
65	100		
127	279.0	243.2	364.8
129	87.0	78.8	118.2

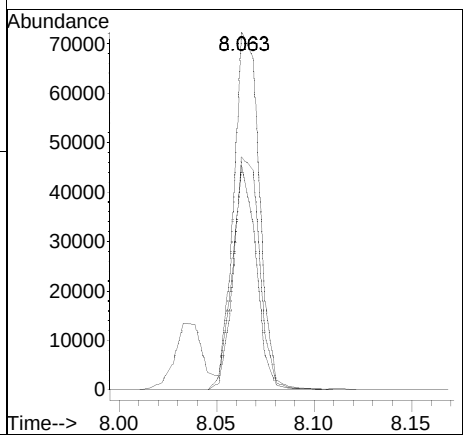


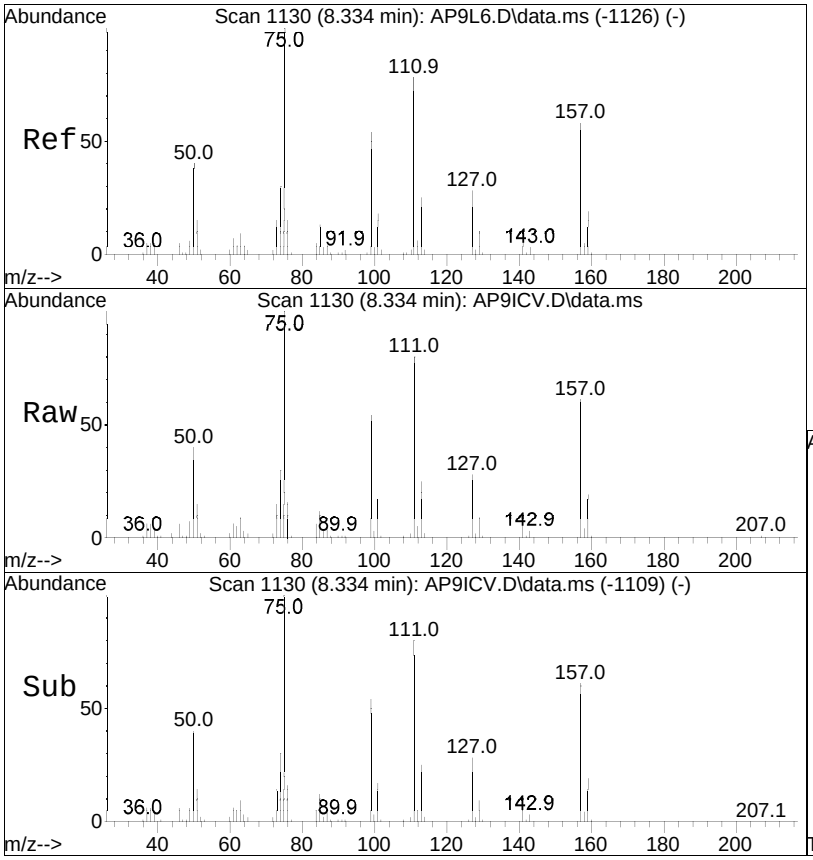


#57
2,6-Dichlorophenol
Concen: 5.15 ug/ml
RT: 8.063 min Scan# 1084
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:162 Resp: 66015

Ion	Ratio	Lower	Upper
162	100		
164	65.3	51.1	76.7
63	56.8	60.8	91.2#

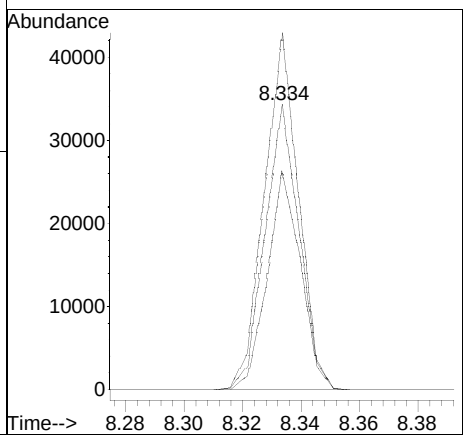


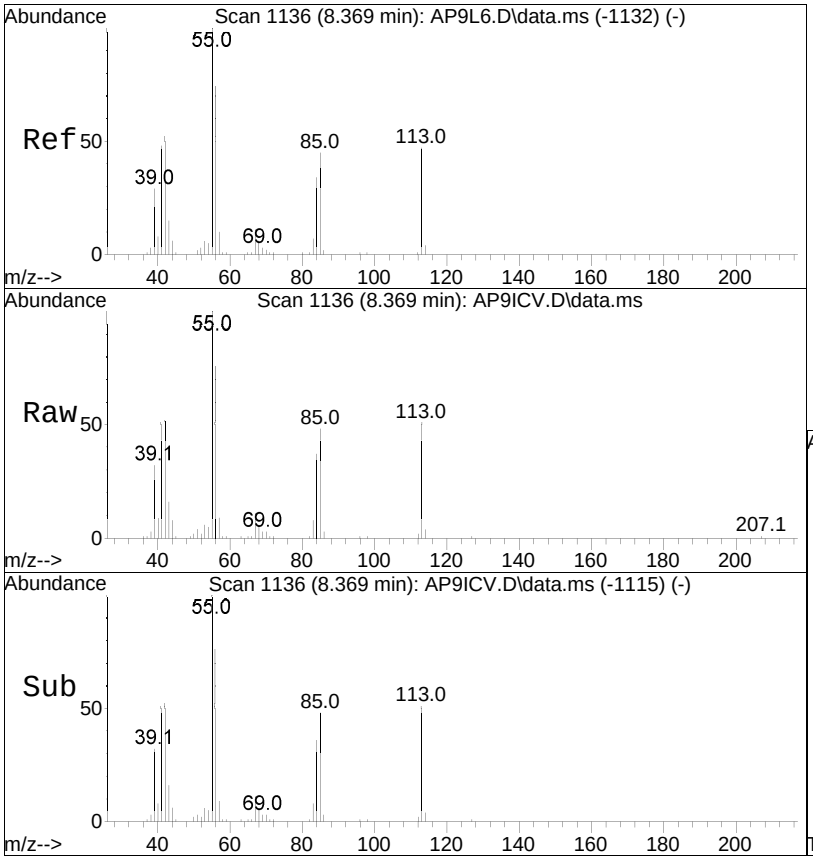


#58
1-chloro-2-nitrobenzene
Concen: 5.16 ug/ml
RT: 8.334 min Scan# 1130
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:111 Resp: 27611

Ion	Ratio	Lower	Upper
111	100		
157	74.9	0.0	0.0#
75	125.2	28.2	42.2#

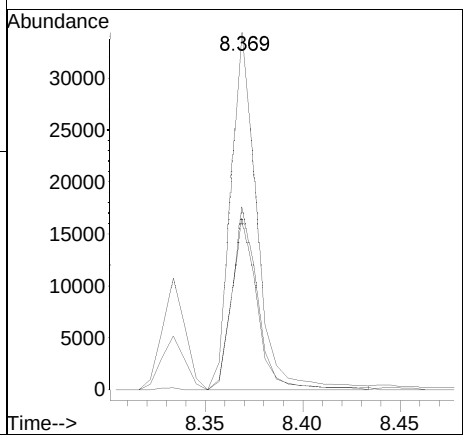


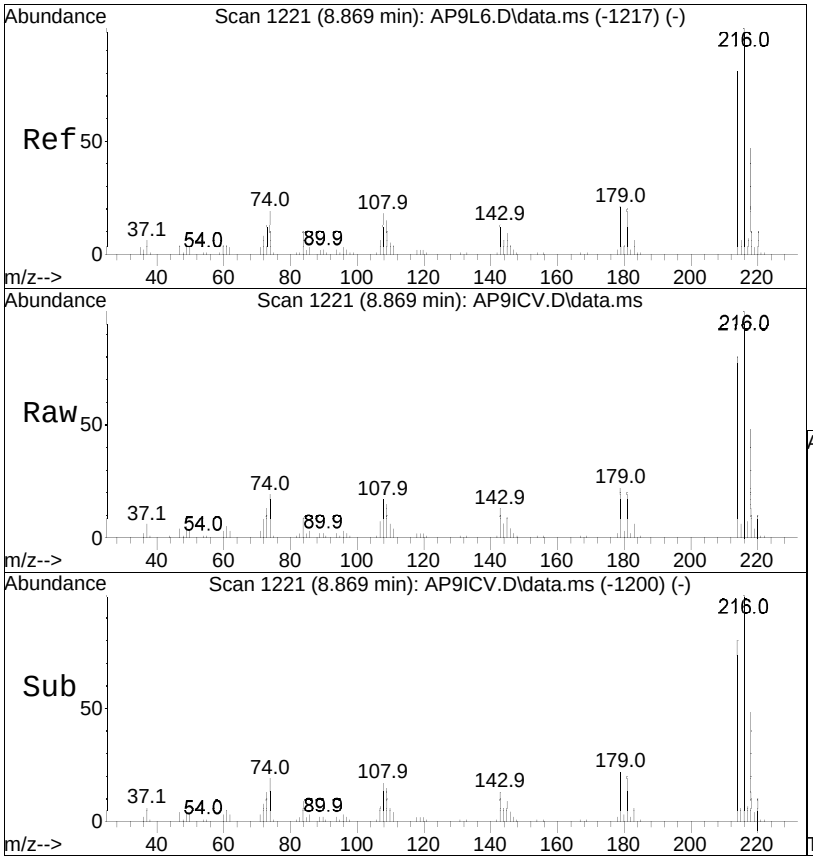


#59
Caprolactam
Concen: 4.88 ug/ml
RT: 8.369 min Scan# 1136
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion: 55 Resp: 32169

Ion	Ratio	Lower	Upper
55	100		
85	47.5	19.8	29.6#
113	50.2	29.6	44.4#

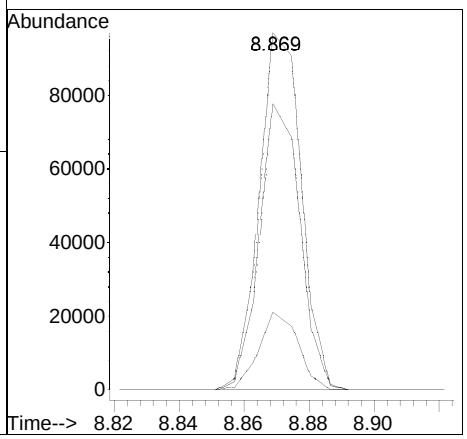


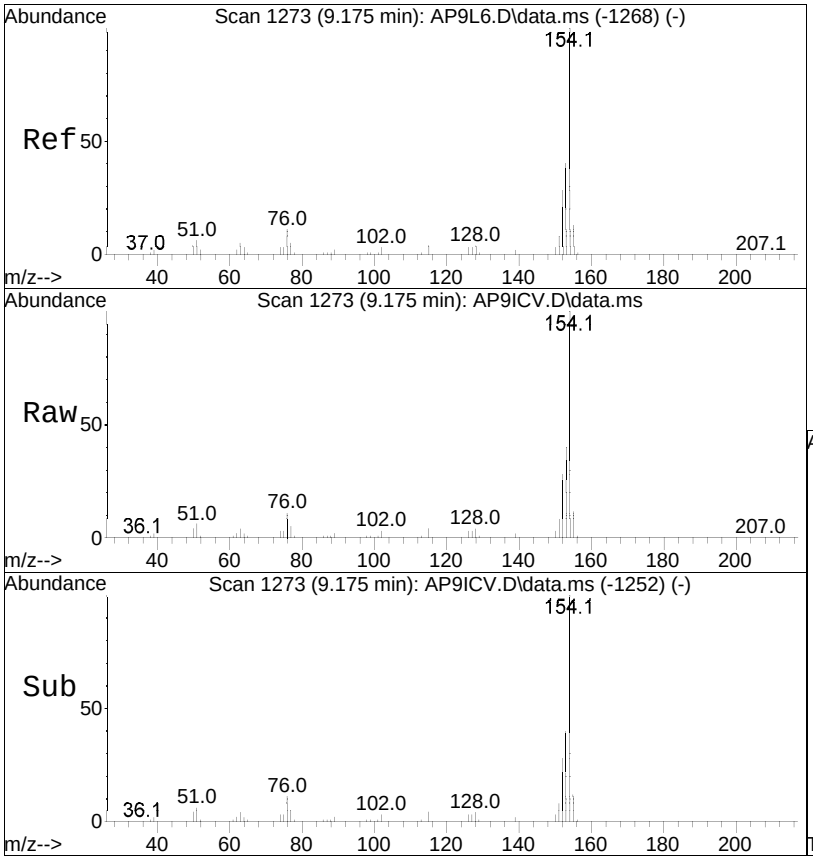


#60
1,2,4,5-Tetrachlorobenzene
Concen: 4.90 ug/ml
RT: 8.869 min Scan# 1221
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:216 Resp: 87005

Ion	Ratio	Lower	Upper
216	100		
214	77.3	63.7	95.5
179	20.5	19.0	28.6

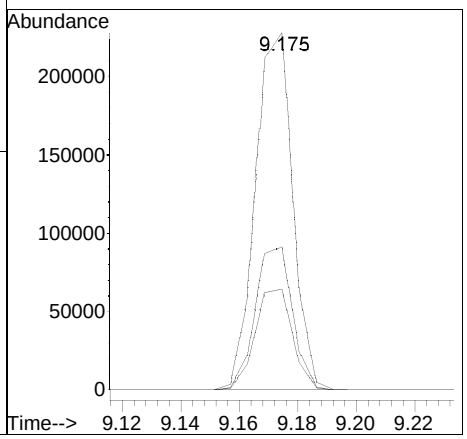


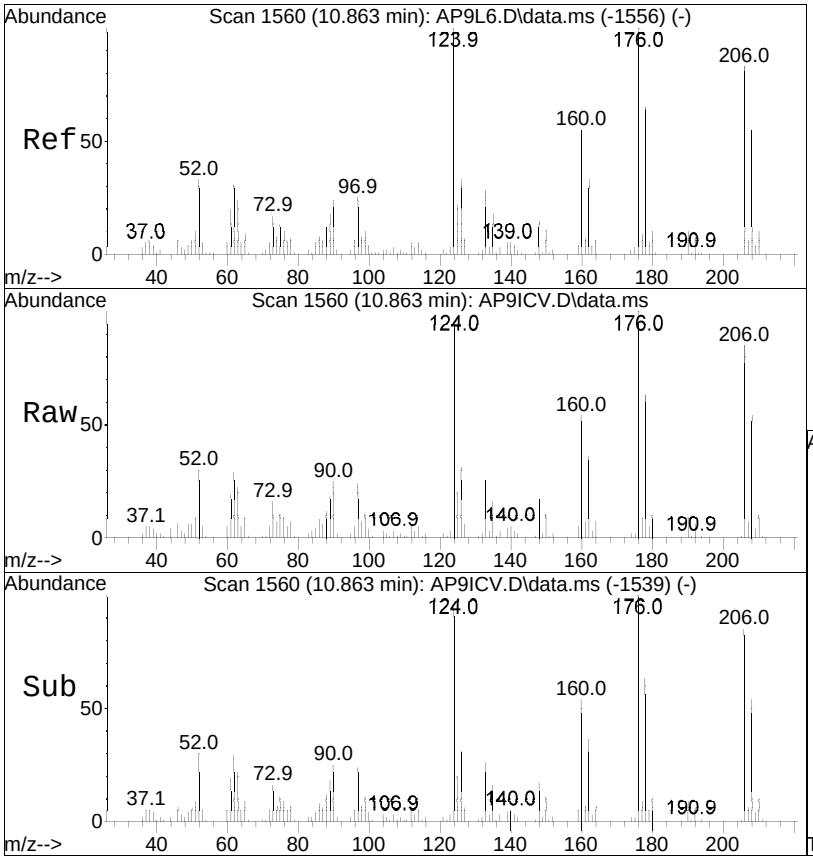


#61
Biphenyl
Concen: 4.89 ug/ml
RT: 9.175 min Scan# 1273
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:154 Resp: 200775

Ion	Ratio	Lower	Upper
154	100		
153	40.3	32.3	48.5
152	28.6	22.5	33.7

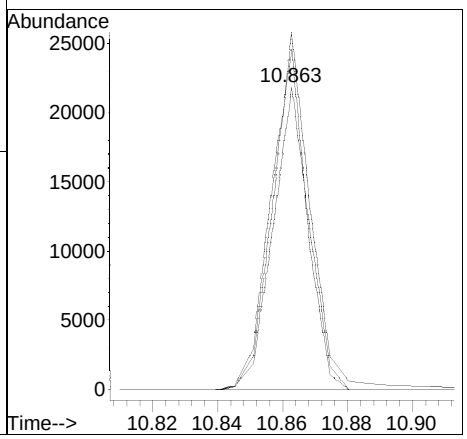


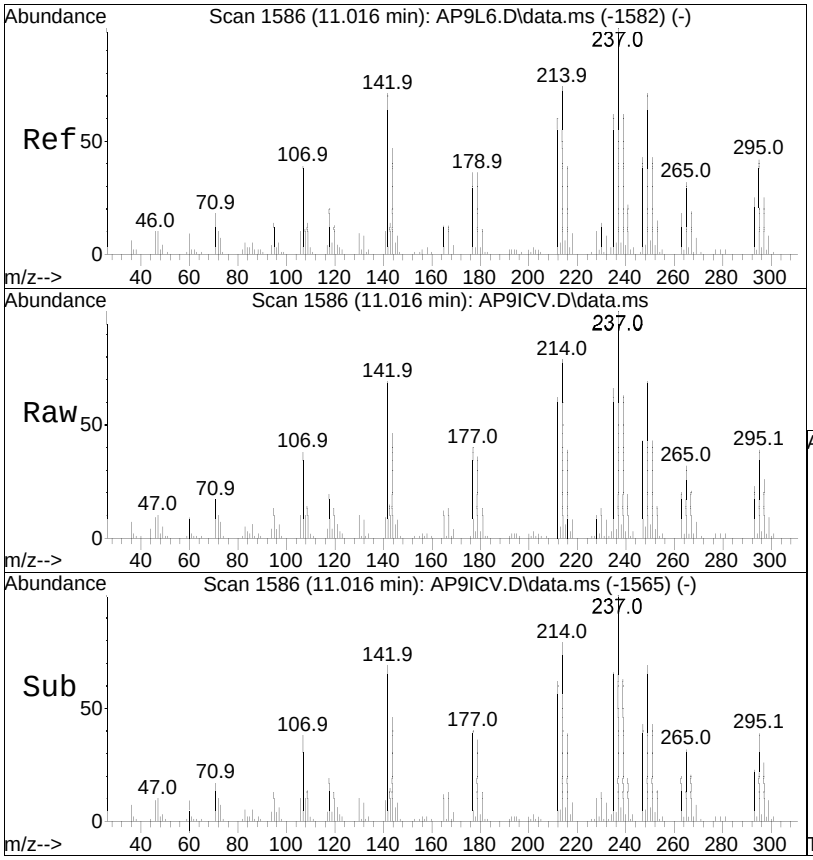


#83
Dichloran
Concen: 4.68 ug/ml
RT: 10.863 min Scan# 1560
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:206 Resp: 16902

Ion	Ratio	Lower	Upper
206	100		
176	122.7	104.6	157.0
124	111.4	130.5	195.7#

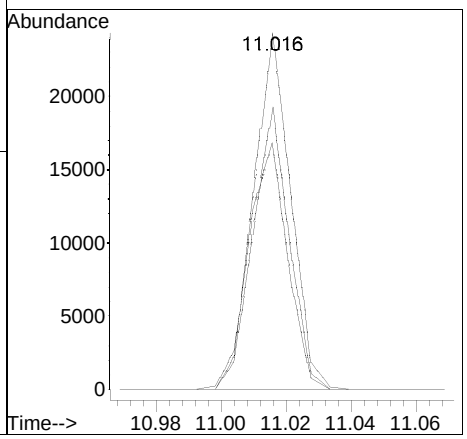


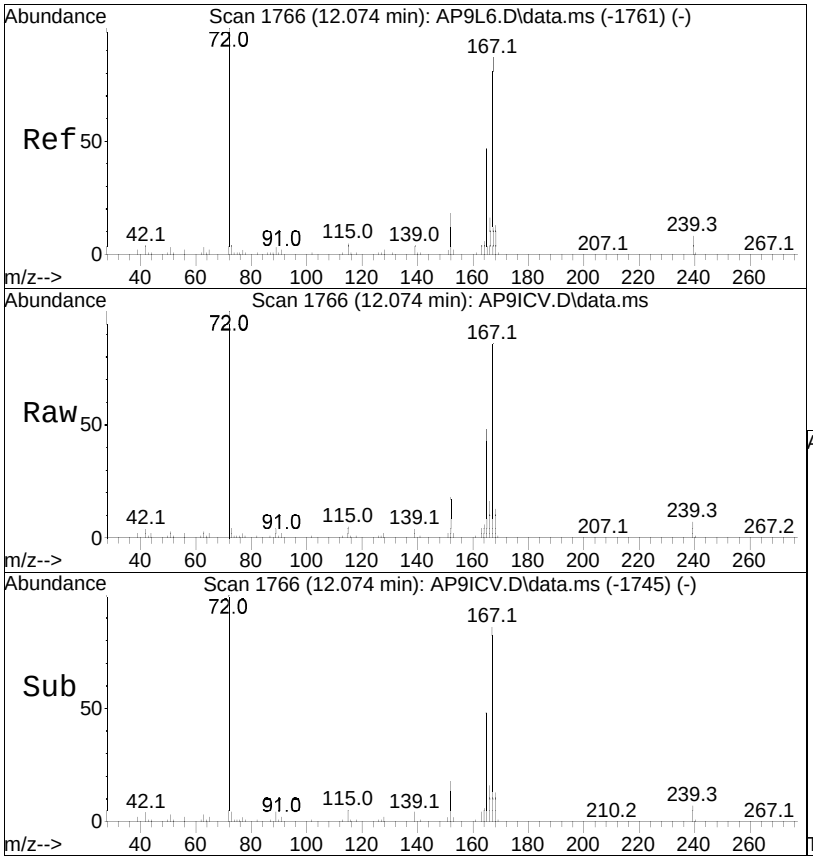


#84
Pentachloronitrobenzene
Concen: 4.80 ug/ml
RT: 11.016 min Scan# 1586
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:237 Resp: 19356

Ion	Ratio	Lower	Upper
237	100		
142	72.7	77.0	115.4#
214	77.0	58.2	87.4

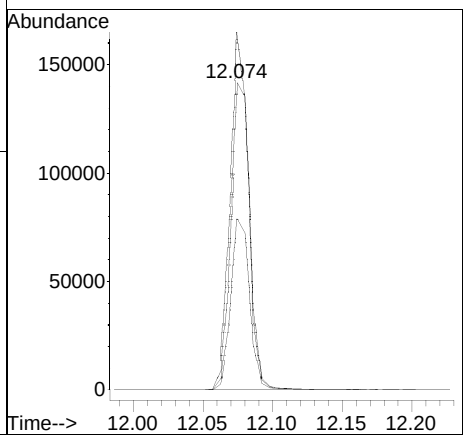




#98
Diphenamid
Concen: 5.32 ug/ml
RT: 12.074 min Scan# 1766
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:167 Resp: 133073

Ion	Ratio	Lower	Upper
167	100		
72	110.2	109.7	164.5
165	55.5	41.8	62.6



Manual Integration Report

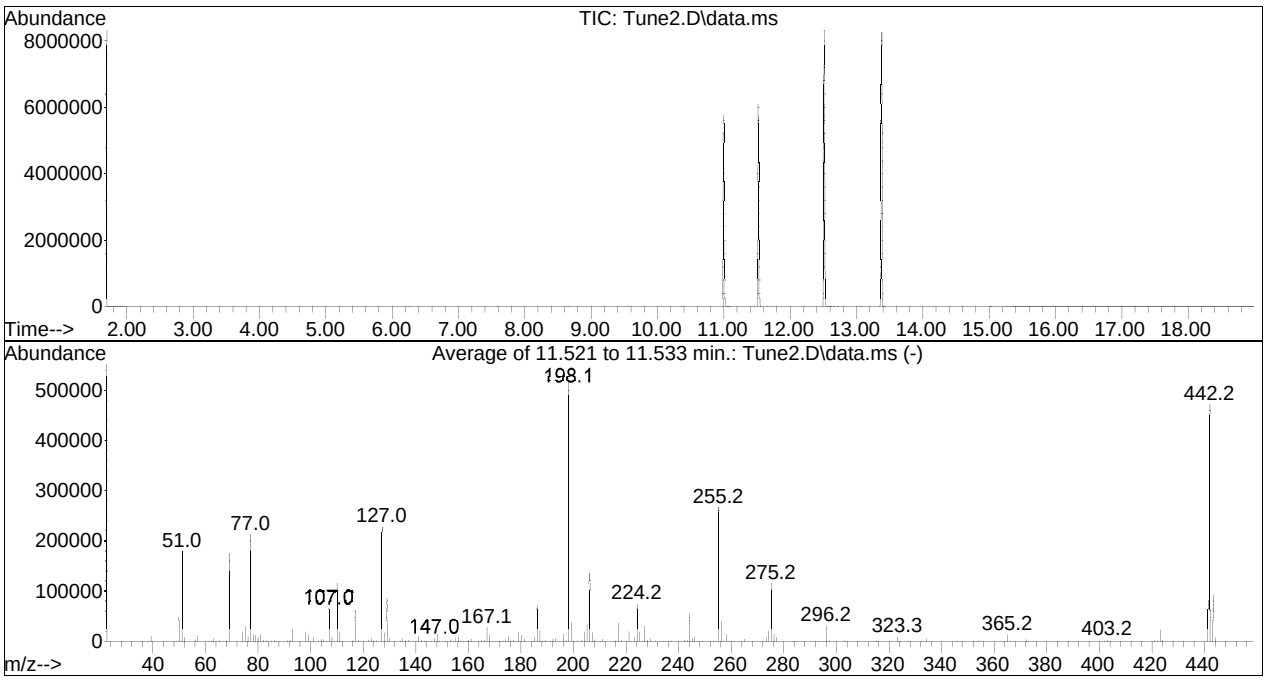
Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9ICV.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 3:39 am	Instrument	: SV107
Sample	: CQICV2,32,,AP9ICV Lot# 106	Quant Date	: 6/3/2024 4:28 pm

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

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024



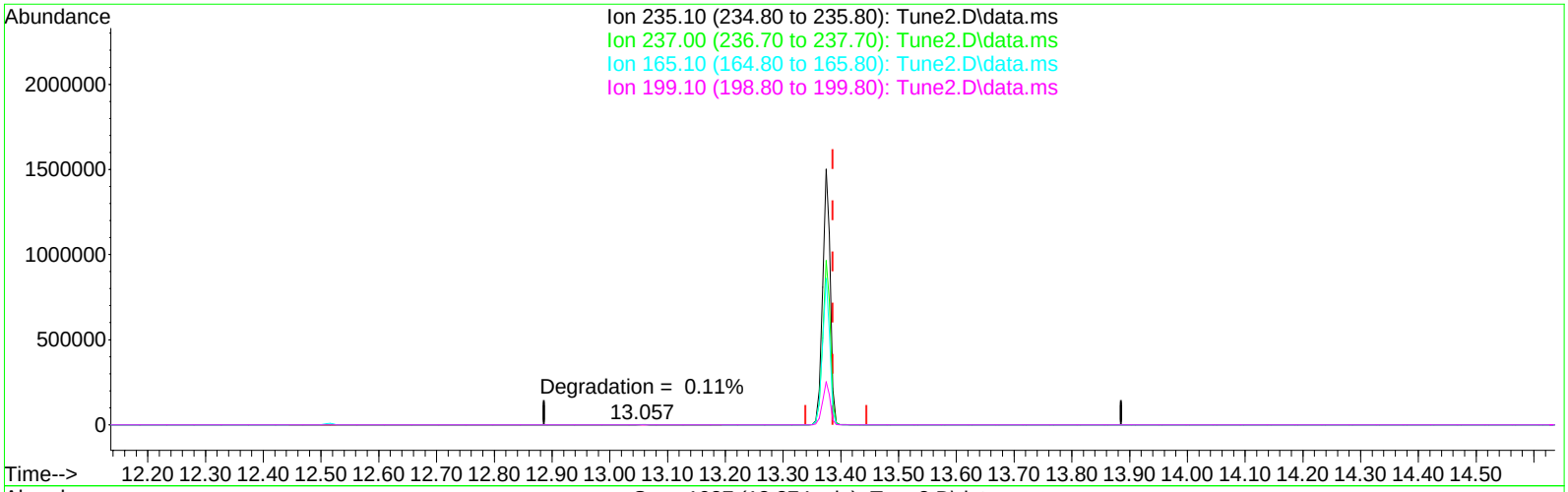
Spectrum Information: Average of 11.521 to 11.533 min.

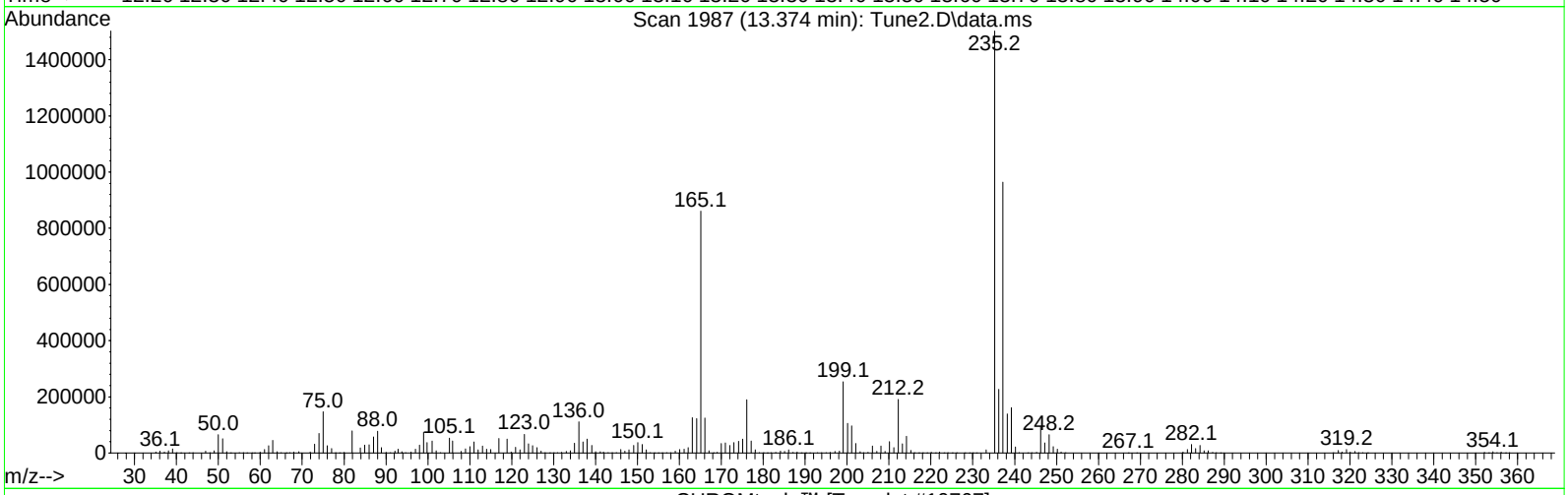
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.1	179126	PASS
68	69	0.00	2	1.6	2727	PASS
69	69	100	100	100.0	175083	PASS
70	69	0.00	2	0.5	958	PASS
127	198	10	80	43.3	227533	PASS
197	198	0.00	2	0.7	3814	PASS
198	198	100	100	100.0	525056	PASS
199	198	5	9	6.8	35925	PASS
275	198	10	60	21.9	115021	PASS
365	198	1	100	2.5	13285	PASS
441	442	0.01	24	17.1	80432	PASS
442	198	50	100	89.8	471531	PASS
443	442	15	24	19.6	92475	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:05:04 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(6) DDT (T)

13.374min (-0.012) 225.28

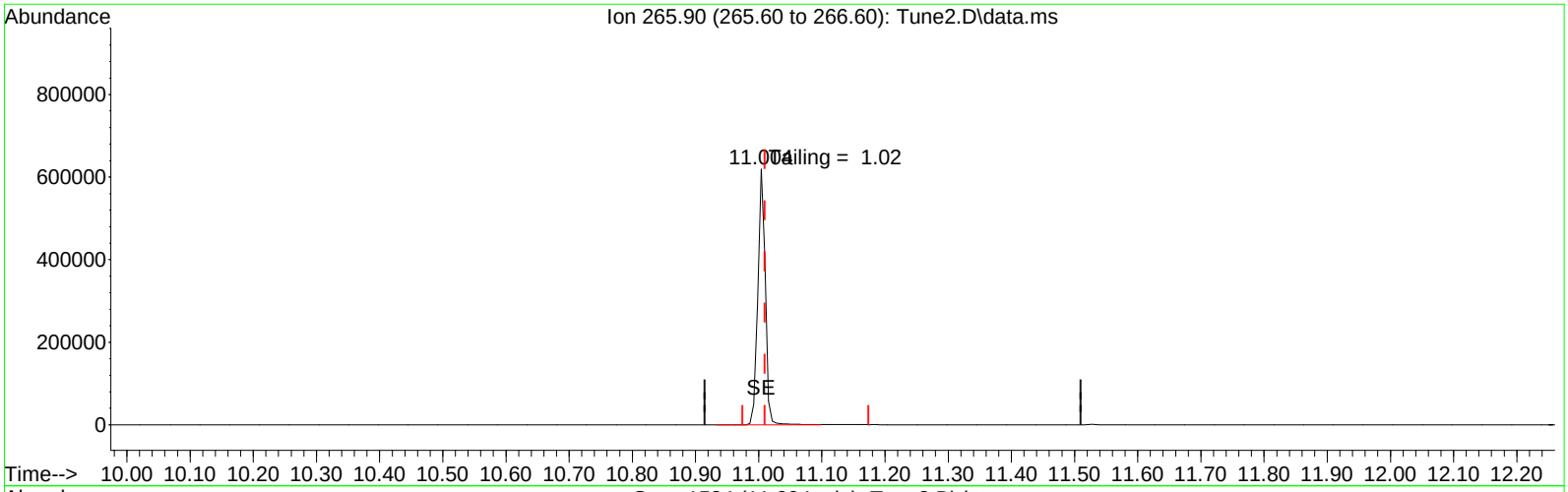
response 1373258

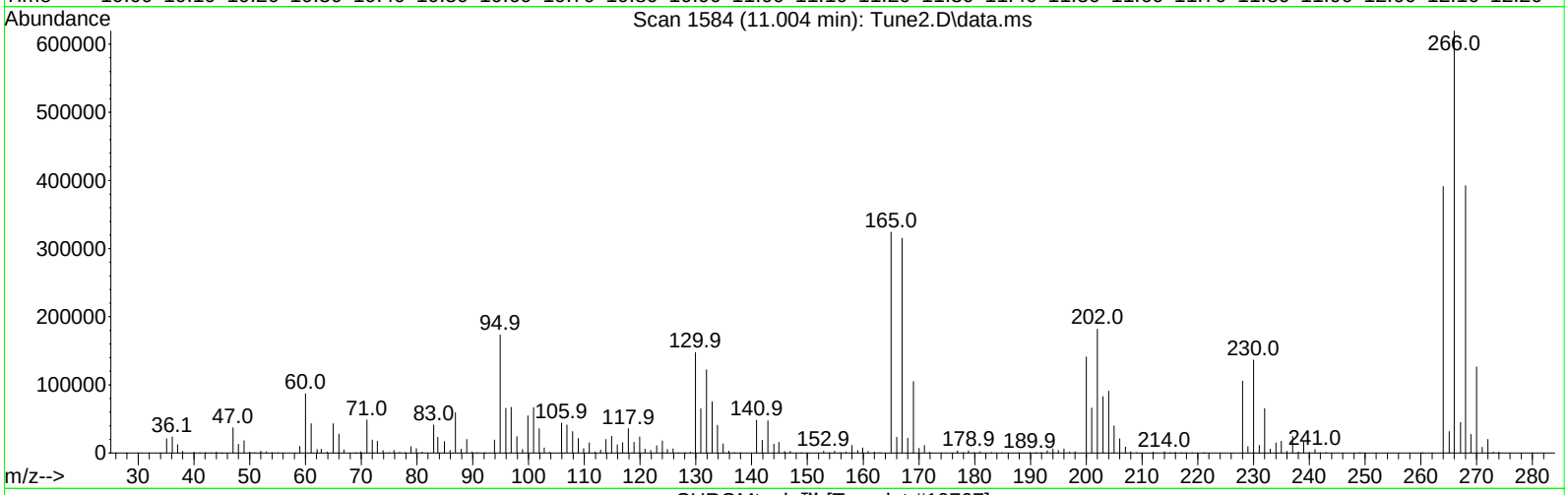
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	64.18
165.10	55.40	54.82
199.10	16.20	16.61

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:05:04 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(1) Pentachlorophenol (T)

11.004min (-0.006) 246.25

response 517216

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

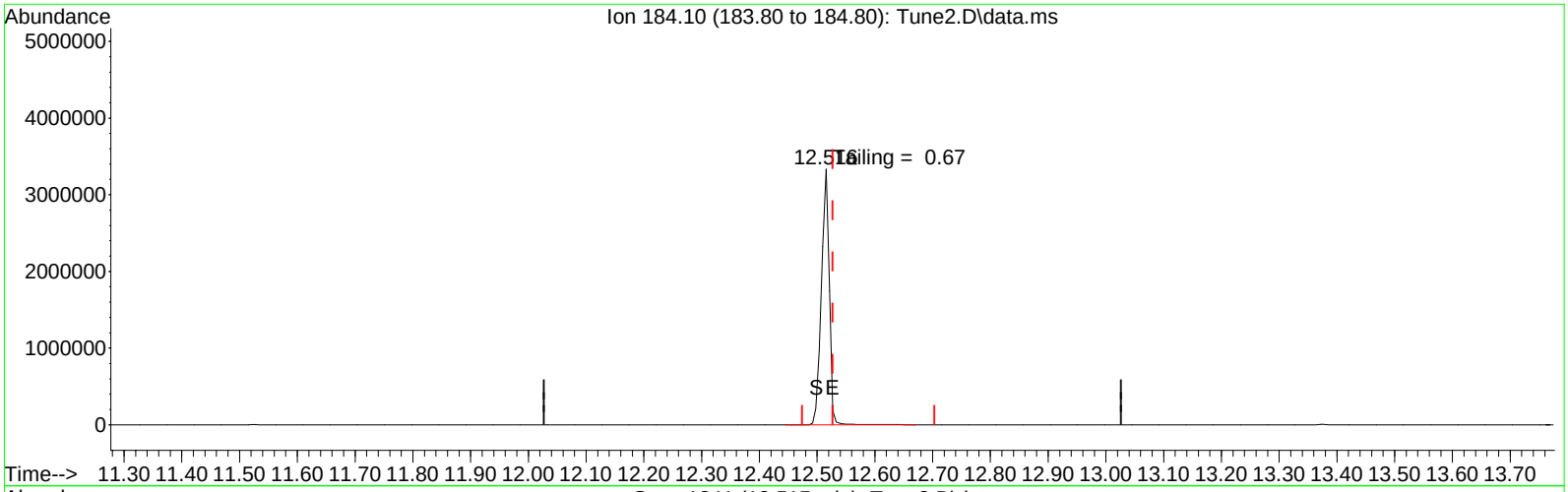
Duplicate Retention Times

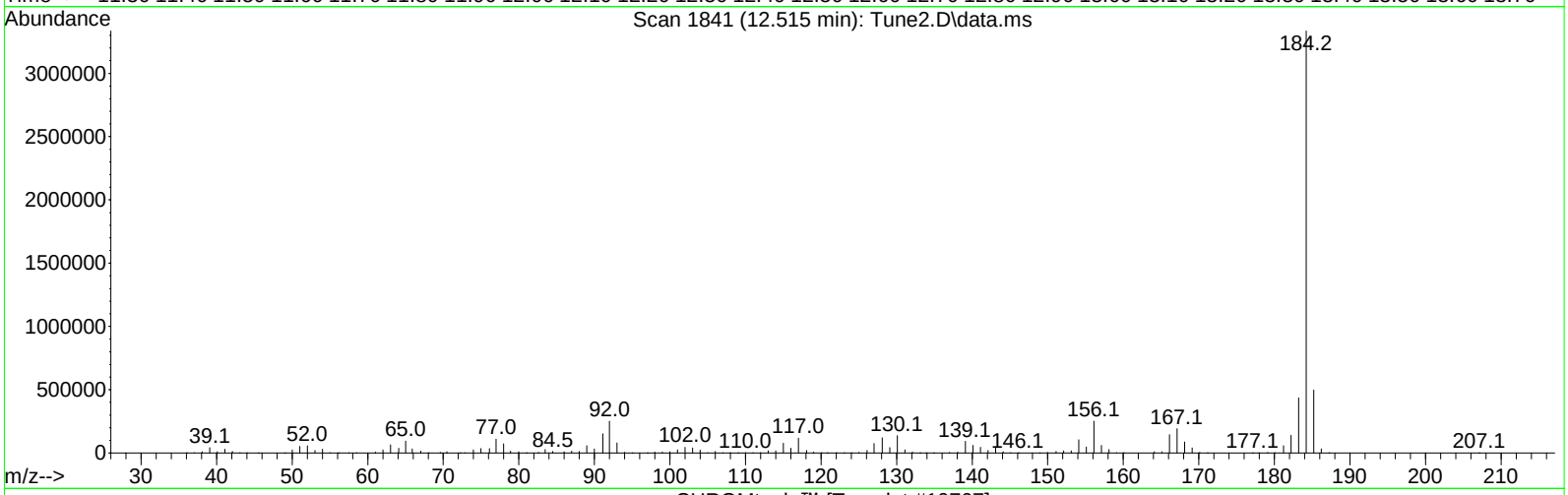
(2) DFTPP 198.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:05:04 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(3) Benzidine (T)

12.515min (-0.011) 309.73

response 3153109

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL9.D
Acq On : 3 Jun 2024 4:29 am
Operator : SV107:jg
Sample : IL2,32,,ADPL50 Lot# 10709
Misc : WG1929644,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 03 16:08:07 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.528	152	47256	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery = 97.26%			
85) IS3_Acenaphthene-d10	9.728	164	107768	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery = 99.45%			
99) IS3_Phenanthrene-d10	11.169	188	235749	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery = 101.01%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	888155	51.448	ug/ml#	45
86) Atrazine	10.945	200	640804	48.965	ug/ml	96
100) n-Octadecane	11.145	57	1411913	65.046	ug/ml#	1
101) Parathion	11.963	109	364006	52.963	ug/ml	99
102) 3,3'-Dimethylbenzidine	13.263	212	2636452	58.961	ug/ml	98

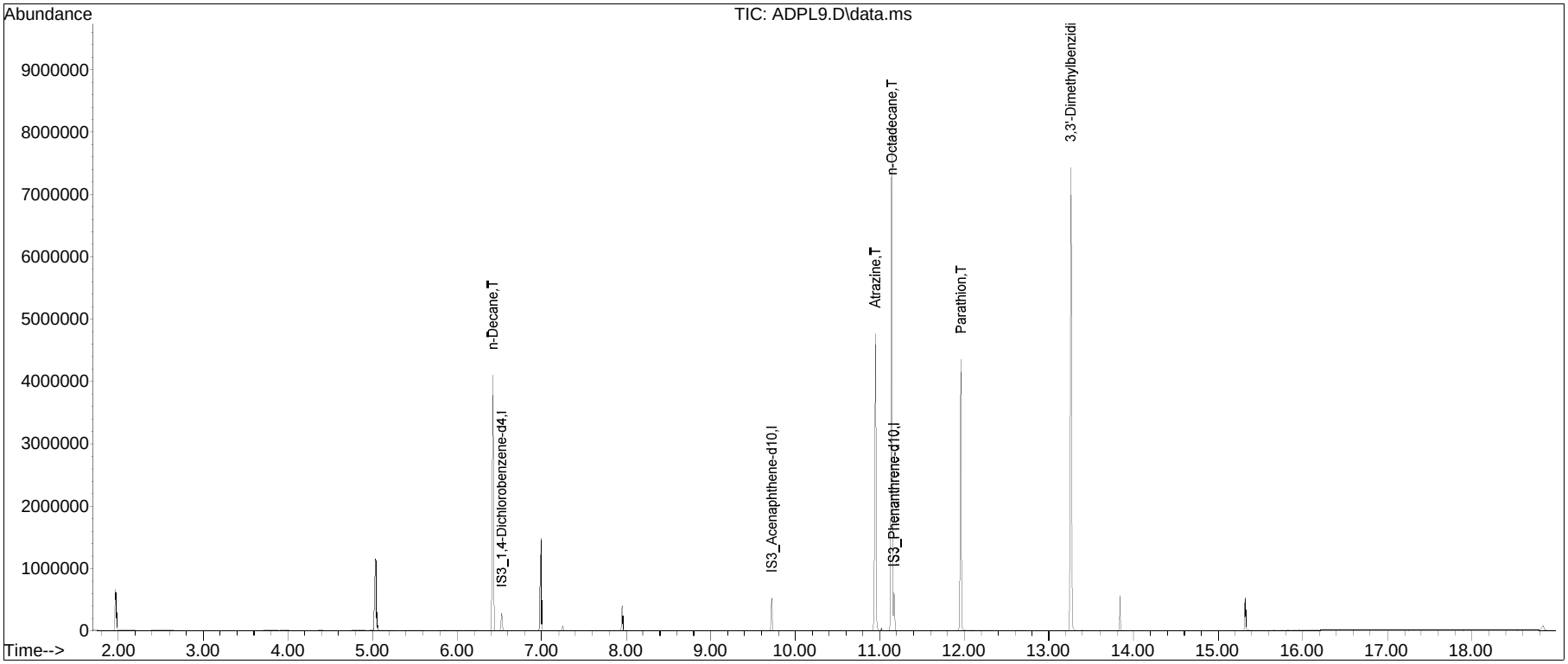
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL9.D
Acq On : 3 Jun 2024 4:29 am
Operator : SV107:jg
Sample : IL2,32,,ADPL50 Lot# 10709
Misc : WG1929644,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 03 16:08:07 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL9.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 4:29 am	Instrument	: SV107
Sample	: IL2,32,,ADPL50 Lot# 10709	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL8.D
Acq On : 3 Jun 2024 4:54 am
Operator : SV107:jg
Sample : IL3,32,,ADPL25 Lot# 10710
Misc : WG1929644,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 03 16:07:48 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	51248	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	105.48%		
85) IS3_Acenaphthene-d10	9.727	164	116945	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	107.92%		
99) IS3_Phenanthrene-d10	11.169	188	253101	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	108.44%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	454019	24.251	ug/ml#	44
86) Atrazine	10.945	200	311783	26.312	ug/ml	96
100) n-Octadecane	11.145	57	687493	29.501	ug/ml#	1
101) Parathion	11.957	109	158582	26.950	ug/ml	98
102) 3,3'-Dimethylbenzidine	13.263	212	1265195	27.816	ug/ml	98

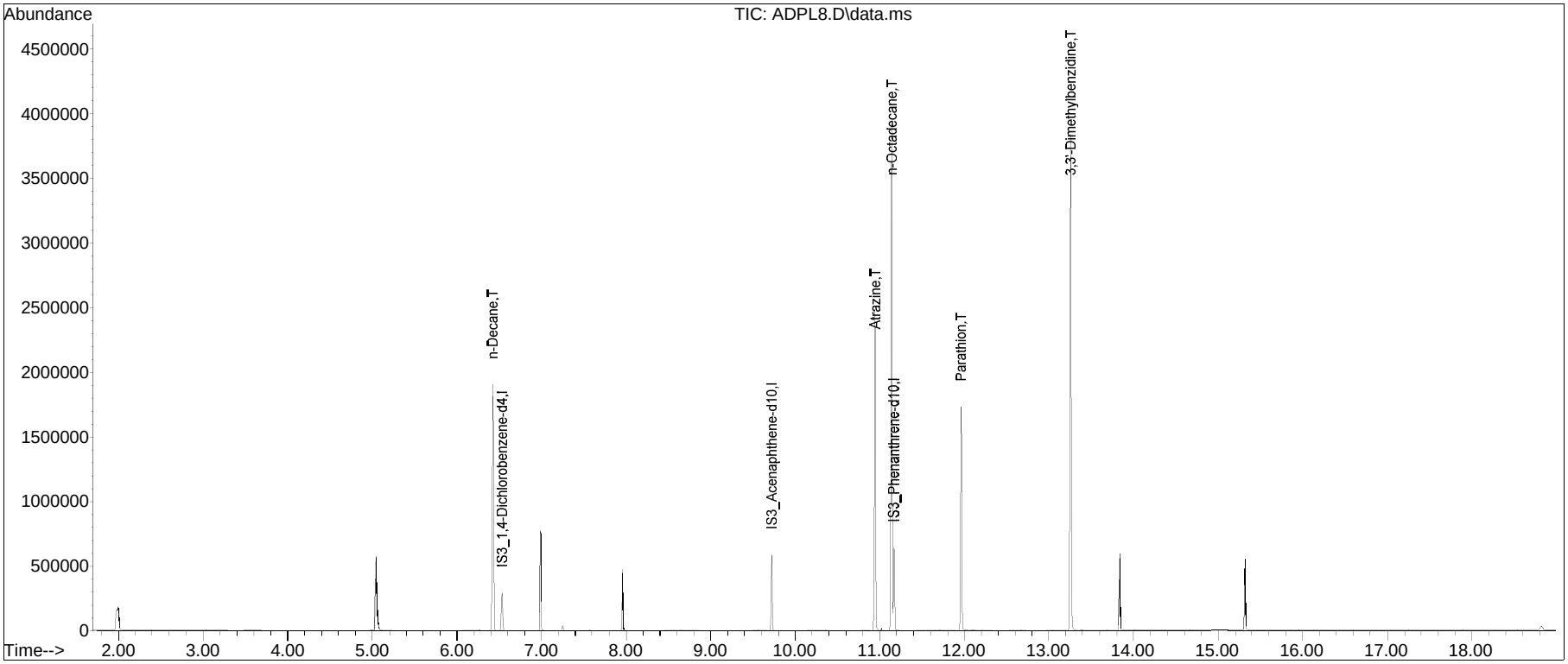
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL8.D
Acq On : 3 Jun 2024 4:54 am
Operator : SV107:jg
Sample : IL3,32,,ADPL25 Lot# 10710
Misc : WG1929644,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 03 16:07:48 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL8.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 4:54 am	Instrument	: SV107
Sample	: IL3,32,,ADPL25 Lot# 10710	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL7.D
Acq On : 3 Jun 2024 5:19 am
Operator : SV107:jg
Sample : IL4,32,,ADPL10 Lot# 10711
Misc : WG1929644,,ical
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 03 16:07:29 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	51597	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	106.20%		
85) IS3_Acenaphthene-d10	9.728	164	112556	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	103.87%		
99) IS3_Phenanthrene-d10	11.169	188	243667	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	104.40%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	181344	9.621	ug/ml#	44
86) Atrazine	10.939	200	109374	11.099	ug/ml	96
100) n-Octadecane	11.139	57	260309	11.603	ug/ml#	1
101) Parathion	11.957	109	46804	10.070	ug/ml	99
102) 3,3'-Dimethylbenzidine	13.257	212	445526	10.874	ug/ml	98

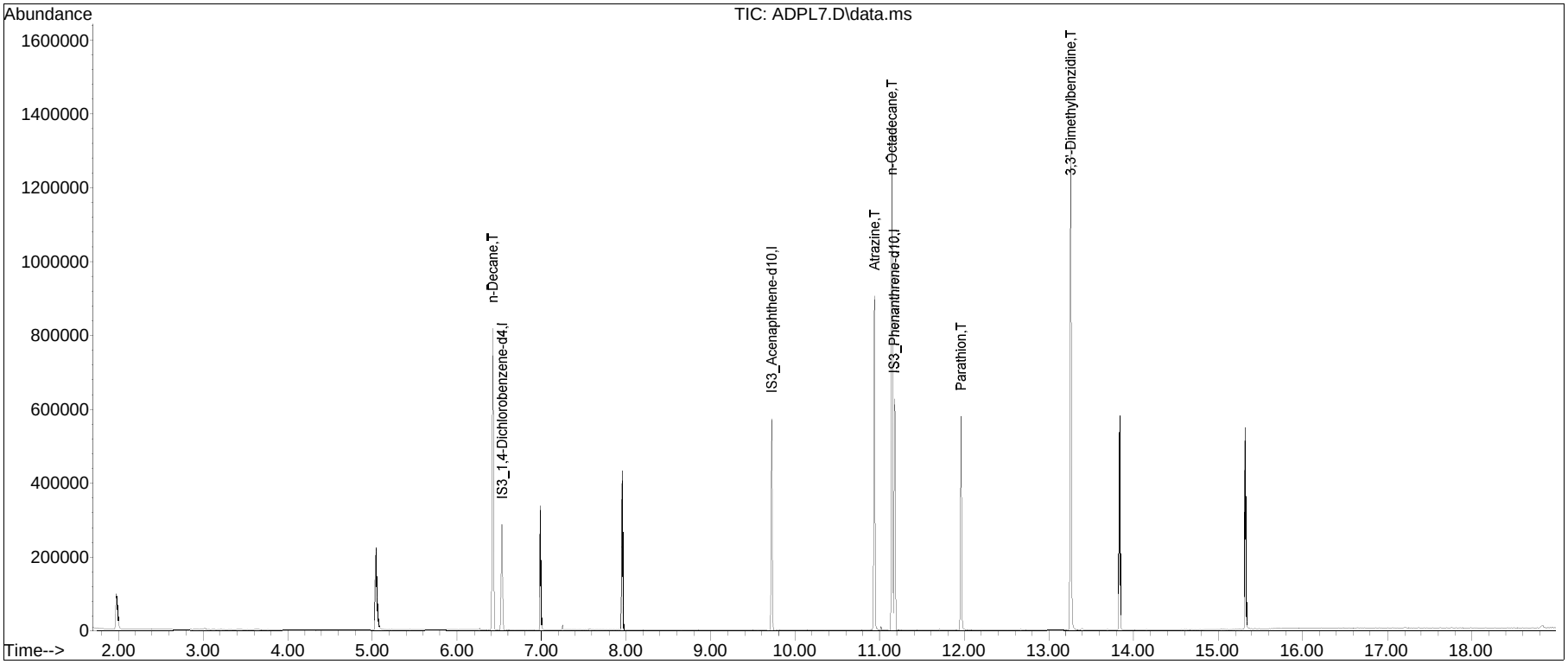
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL7.D
Acq On : 3 Jun 2024 5:19 am
Operator : SV107:jg
Sample : IL4,32,,ADPL10 Lot# 10711
Misc : WG1929644,,ical
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 03 16:07:29 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL7.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 5:19 am	Instrument	: SV107
Sample	: IL4,32,,ADPL10 Lot# 10711	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL6.D
Acq On : 3 Jun 2024 5:45 am
Operator : SV107:jg
Sample : IL5,32,,ADPL5 Lot# 10712
Misc : WG1929644,,ical
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 03 16:07:12 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	48587	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	100.00%		
85) IS3_Acenaphthene-d10	9.728	164	108359	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	100.00%		
99) IS3_Phenanthrene-d10	11.174	188	233400	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	81218	4.576	ug/ml#	43
86) Atrazine	10.933	200	48202	5.430	ug/ml	96
100) n-Octadecane	11.139	57	115995	5.398	ug/ml#	1
101) Parathion	11.957	109	18001	4.531	ug/ml	96
102) 3,3'-Dimethylbenzidine	13.257	212	195495	5.424	ug/ml	99

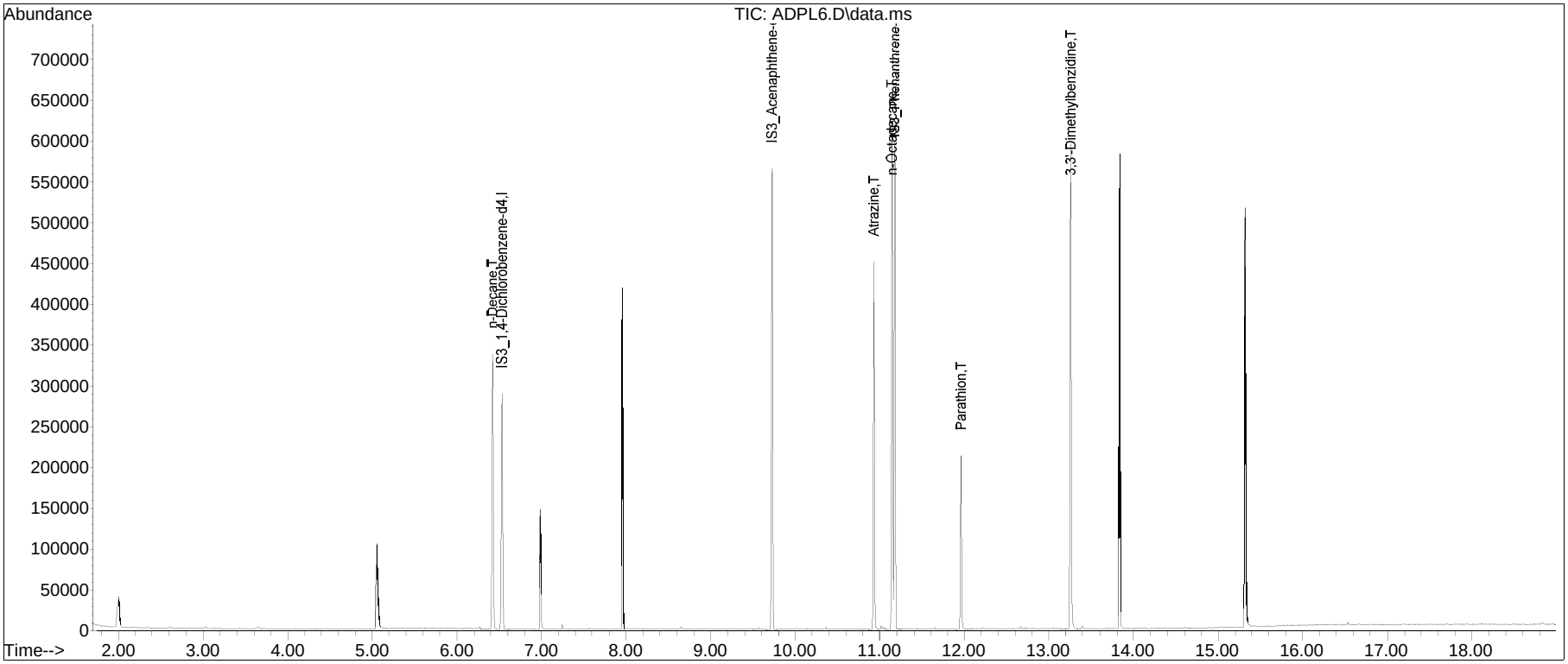
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL6.D
Acq On : 3 Jun 2024 5:45 am
Operator : SV107:jg
Sample : IL5,32,,ADPL5 Lot# 10712
Misc : WG1929644,,ical
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 03 16:07:12 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL6.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 5:45 am	Instrument	: SV107
Sample	: IL5,32,,ADPL5 Lot# 10712	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL5.D
Acq On : 3 Jun 2024 6:10 am
Operator : SV107:jg
Sample : IL6,32,,ADPL2.5 Lot# 10713
Misc : WG1929644,,ical
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 03 16:06:54 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.533	152	48599	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	100.02%		
85) IS3_Acenaphthene-d10	9.727	164	105030	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	96.93%		
99) IS3_Phenanthrene-d10	11.168	188	227320	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	97.40%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	41542	2.340	ug/ml#	44
86) Atrazine	10.933	200	21586	2.630	ug/ml	96
100) n-Octadecane	11.145	57	53141	2.539	ug/ml#	1
101) Parathion	11.957	109	7173	2.132	ug/ml	94
102) 3,3'-Dimethylbenzidine	13.257	212	77675	2.666	ug/ml	99

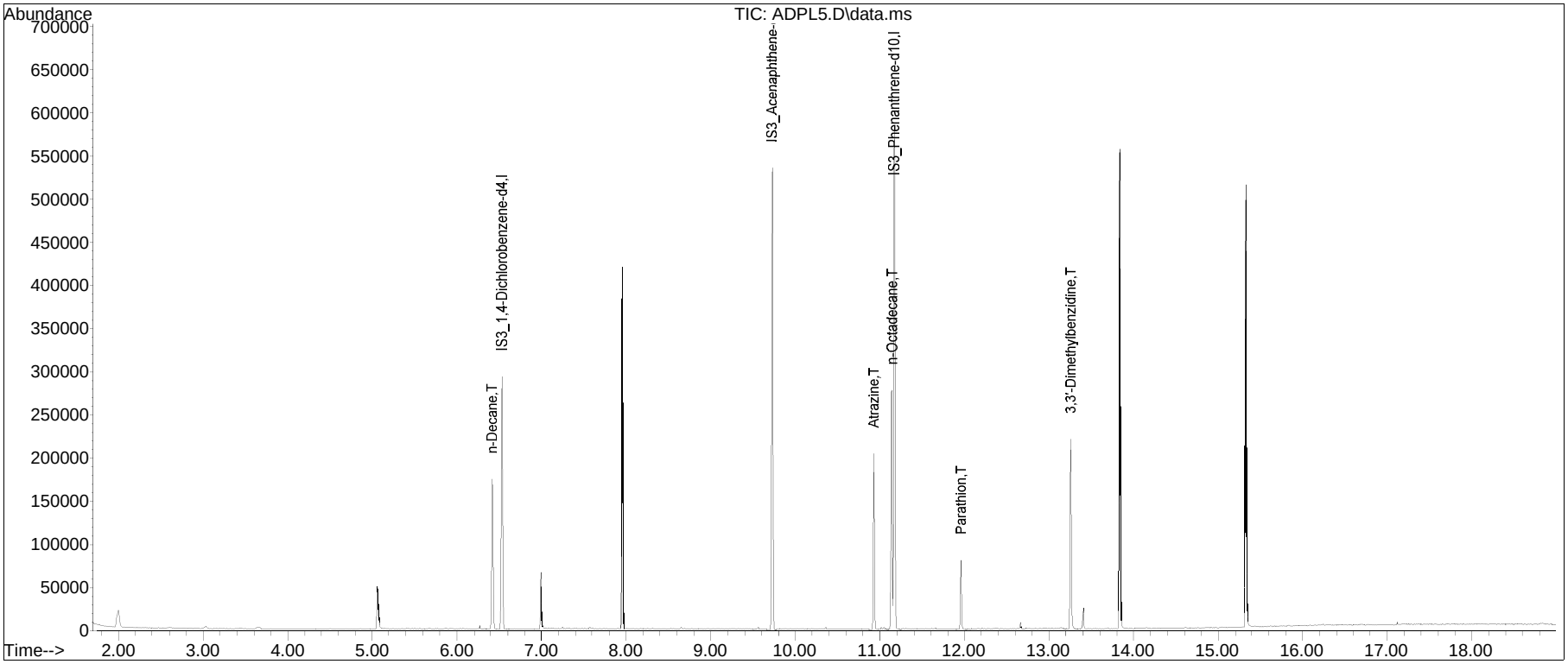
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL5.D
Acq On : 3 Jun 2024 6:10 am
Operator : SV107:jg
Sample : IL6,32,,ADPL2.5 Lot# 10713
Misc : WG1929644,,ical
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 03 16:06:54 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL5.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 6:10 am	Instrument	: SV107
Sample	: IL6,32,,ADPL2.5 Lot# 10713	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL4.D
Acq On : 3 Jun 2024 6:35 am
Operator : SV107:jg
Sample : IL7,32,,ADPL1 Lot# 10714
Misc : WG1929644,,ical
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 03 16:06:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	46933	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery = 96.60%			
85) IS3_Acenaphthene-d10	9.727	164	101637	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery = 93.80%			
99) IS3_Phenanthrene-d10	11.169	188	214729	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery = 92.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	17888	1.043	ug/ml#	44
86) Atrazine	10.933	200	8768	1.170	ug/ml	96
100) n-Octadecane	11.139	57	22089	1.117	ug/ml#	1
101) Parathion	11.957	109	2809	1.119	ug/ml	97
102) 3,3'-Dimethylbenzidine	13.257	212	28638	1.502	ug/ml	99

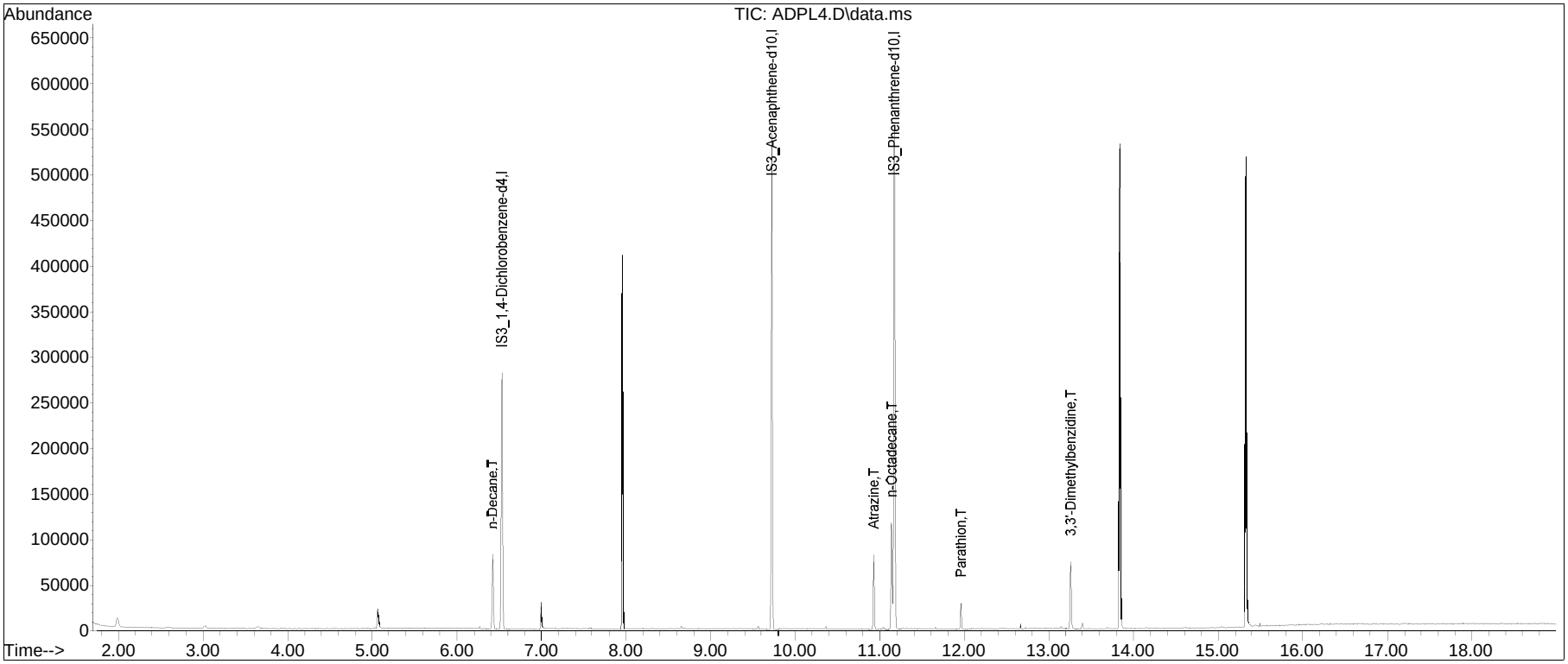
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL4.D
Acq On : 3 Jun 2024 6:35 am
Operator : SV107:jg
Sample : IL7,32,,ADPL1 Lot# 10714
Misc : WG1929644,,ical
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 03 16:06:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL4.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 6:35 am	Instrument	: SV107
Sample	: IL7,32,,ADPL1 Lot# 10714	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL3.D
Acq On : 3 Jun 2024 7:00 am
Operator : SV107:jg
Sample : IL8,32,,ADPL0.5 Lot# 10715
Misc : WG1929644,,ical
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 03 16:05:40 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	48900	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	100.64%		
85) IS3_Acenaphthene-d10	9.727	164	108367	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	100.01%		
99) IS3_Phenanthrene-d10	11.169	188	232187	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	99.48%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	8935	0.500	ug/ml#	42
86) Atrazine	10.933	200	4033	0.556	ug/ml	94
100) n-Octadecane	11.139	57	10307	0.482	ug/ml#	1
101) Parathion	11.957	109	1161	0.668	ug/ml#	82
102) 3,3'-Dimethylbenzidine	13.257	212	10182	1.000	ug/ml	97

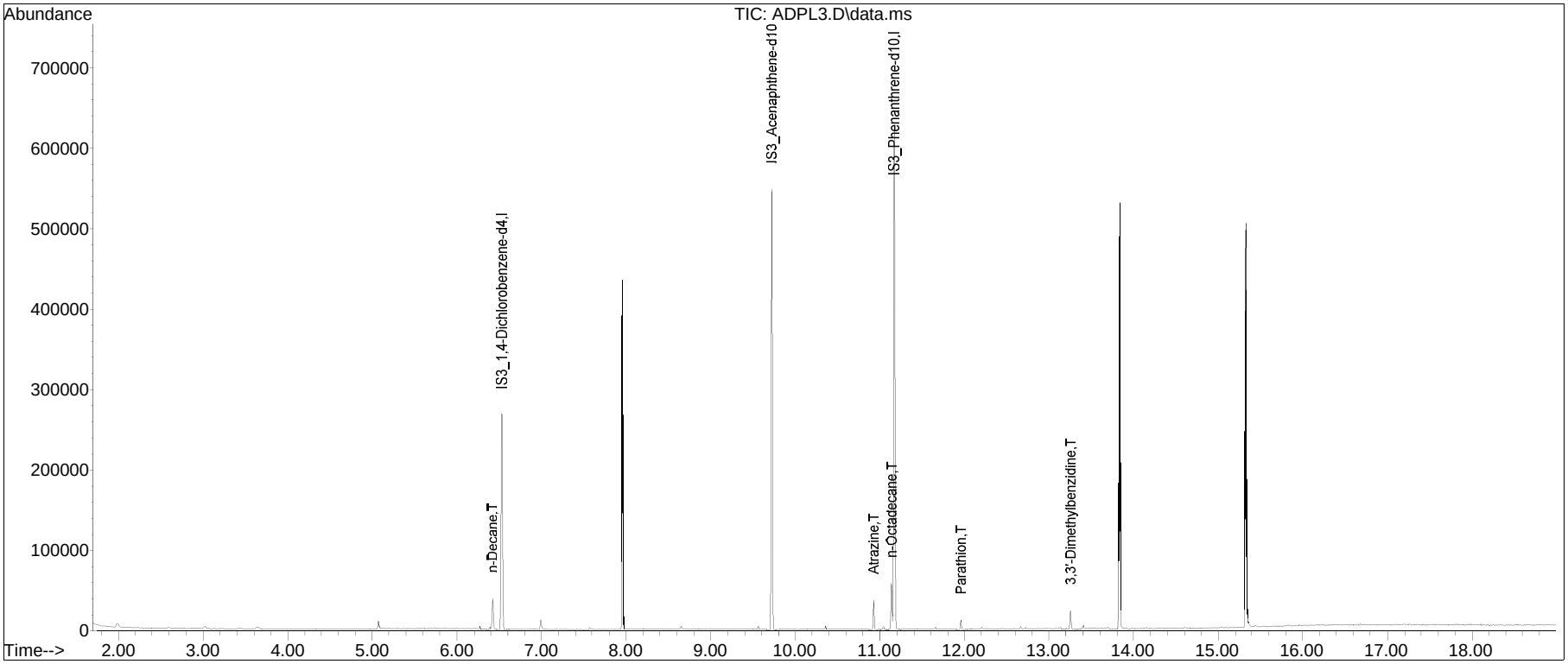
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL3.D
Acq On : 3 Jun 2024 7:00 am
Operator : SV107:jg
Sample : IL8,32,,ADPL0.5 Lot# 10715
Misc : WG1929644,,ical
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 03 16:05:40 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL3.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 7:00 am	Instrument	: SV107
Sample	: IL8,32,,ADPL0.5 Lot# 10715	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL2.D
Acq On : 3 Jun 2024 7:25 am
Operator : SV107:jg
Sample : IL9,32,,ADPL0.2 Lot# 10716
Misc : WG1929644,,ical
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 03 16:04:28 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	51656	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	106.32%		
85) IS3_Acenaphthene-d10	9.727	164	110125	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	101.63%		
99) IS3_Phenanthrene-d10	11.169	188	232671	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	99.69%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	3838	0.203	ug/ml#	42
86) Atrazine	10.933	200	1581	0.267	ug/ml	92
100) n-Octadecane	11.139	57	3822	0.178	ug/ml#	1
101) Parathion	11.957	109	580	0.527	ug/ml#	80
102) 3,3'-Dimethylbenzidine	13.257	212	3243	0.833	ug/ml#	95

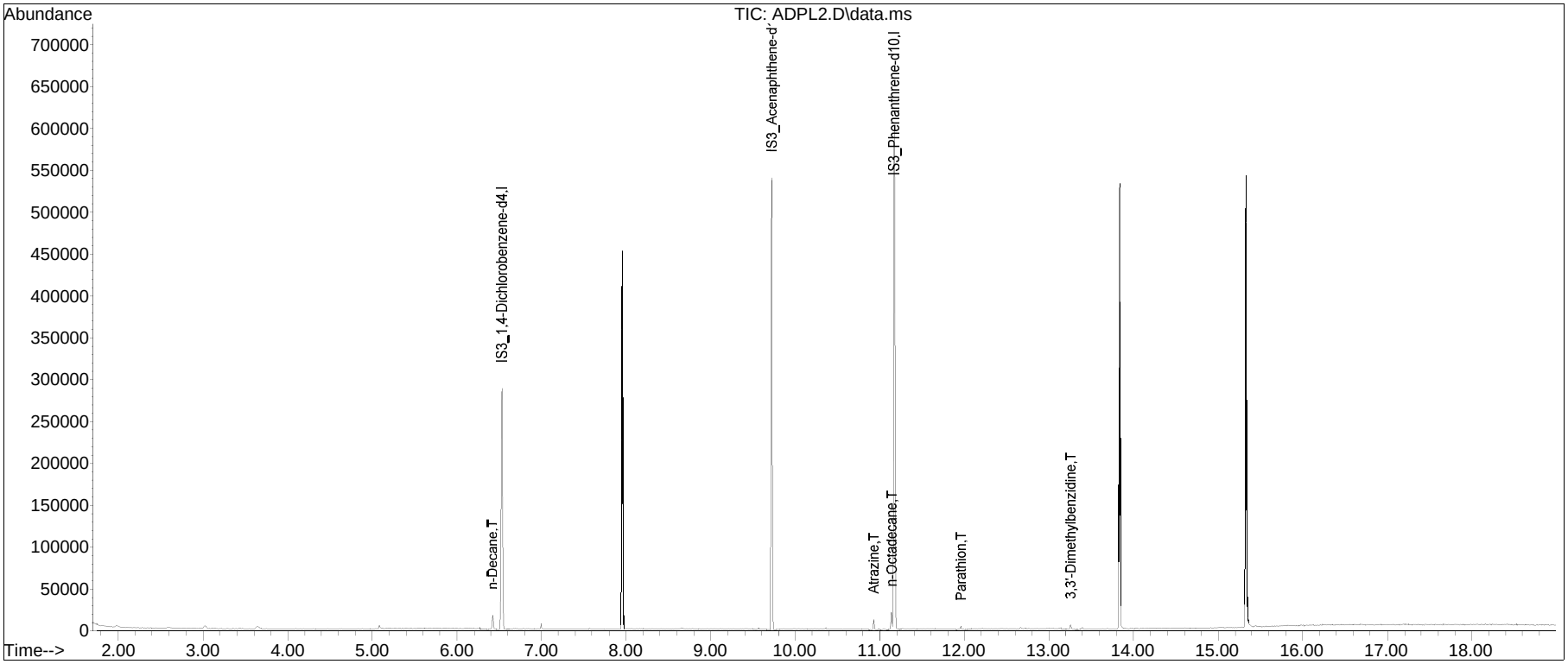
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL2.D
Acq On : 3 Jun 2024 7:25 am
Operator : SV107:jg
Sample : IL9,32,,ADPL0.2 Lot# 10716
Misc : WG1929644,,ical
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 03 16:04:28 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL2.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 7:25 am	Instrument	: SV107
Sample	: IL9,32,,ADPL0.2 Lot# 10716	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL1.D
Acq On : 3 Jun 2024 7:50 am
Operator : SV107:jg
Sample : IL10,32,,ADPL0.1 Lot# 10717
Misc : WG1929644,,ical
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 03 16:04:10 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	6.534	152	47913	4.000	ug/ml		0.00
Standard Area 2 = 48587			Recovery = 98.61%				
85) IS3_Acenaphthene-d10	9.728	164	103451	4.000	ug/ml		0.00
Standard Area 2 = 108359			Recovery = 95.47%				
99) IS3_Phenanthrene-d10	11.169	188	219717	4.000	ug/ml	#	0.00
Standard Area 2 = 233400			Recovery = 94.14%				
System Monitoring Compounds							
Target Compounds							Qvalue
33) n-Decane	6.422	57	1821	0.104	ug/ml	#	41
86) Atrazine	10.933	200	629	0.162	ug/ml	#	33
100) n-Octadecane	11.139	57	1799	0.089	ug/ml	#	1
101) Parathion	11.951	109	154M2	0.426	ug/ml		
102) 3,3'-Dimethylbenzidine	13.257	212	1095	0.783	ug/ml	#	62

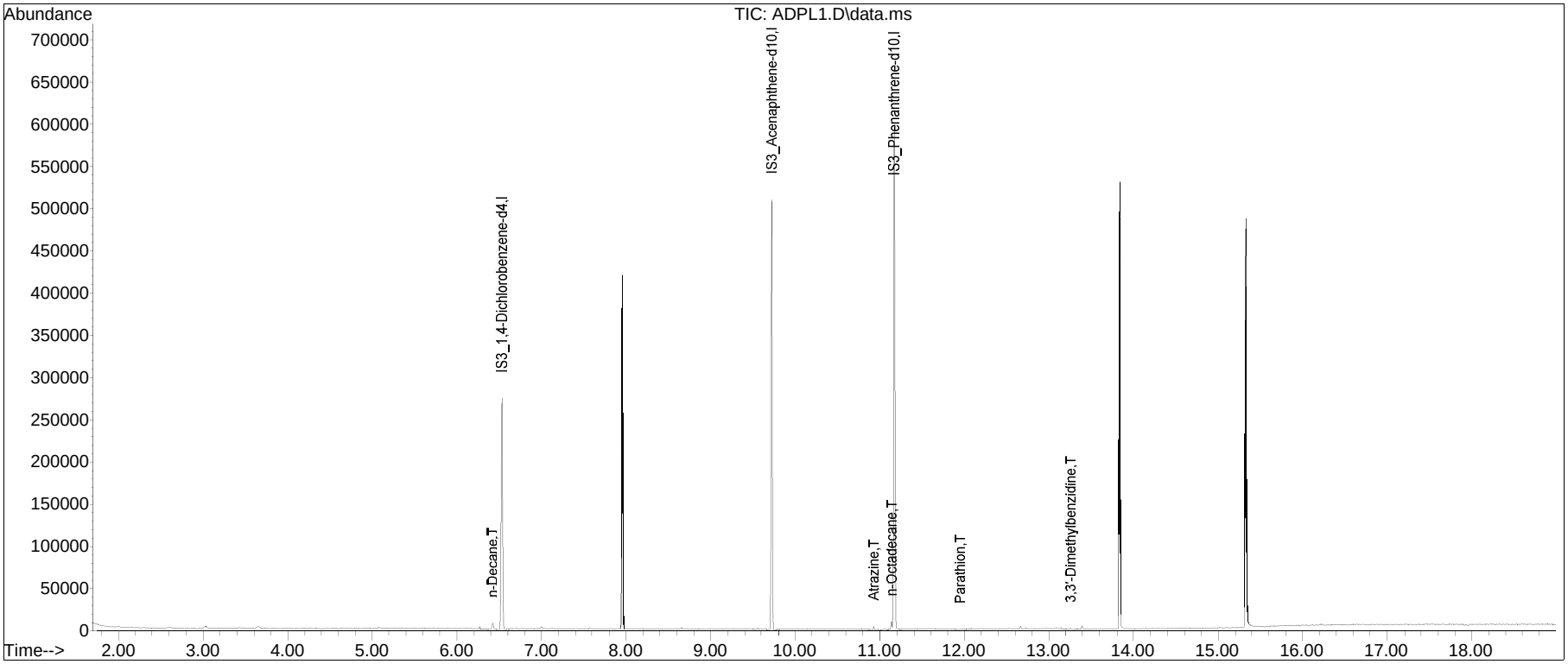
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL1.D
Acq On : 3 Jun 2024 7:50 am
Operator : SV107:jg
Sample : IL10,32,,ADPL0.1 Lot# 10717
Misc : WG1929644,,ical
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 03 16:04:10 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

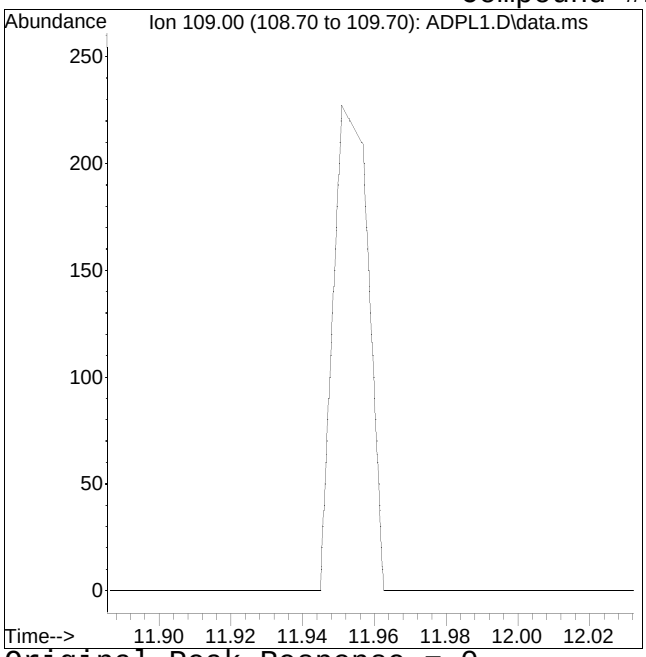
Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



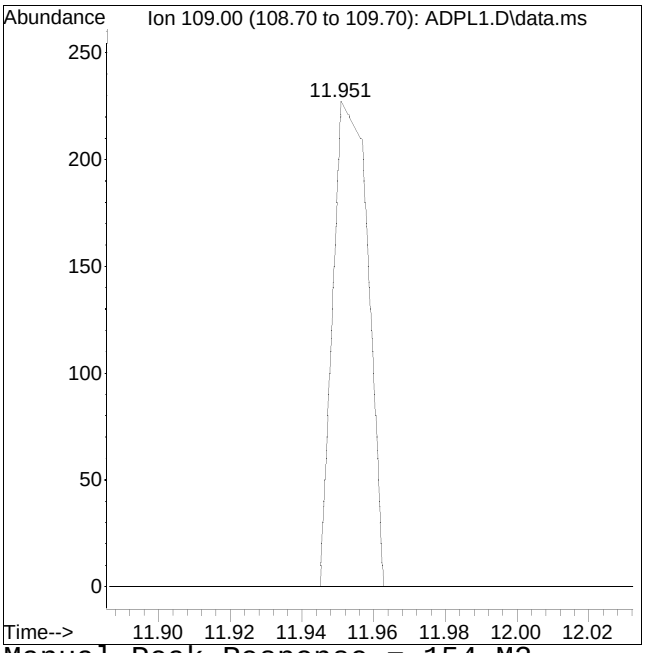
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ADPL1.D Operator : SV107:jg
Date Inj'd : 6/3/2024 7:50 am Instrument : SV107
Sample : IL10,32,,ADPL0.1 Lot# 1071 Quant Date : 6/3/2024 10:22 am

Compound #101: Parathion



Original Peak Response = 0



Manual Peak Response = 154 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : ADPICV.D
Acq On : 3 Jun 2024 8:15 am
Operator : SV107:jg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1929644,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:27:51 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	103	0.00
33	T	n-Decane		1.447	1.410	2.6	109	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	104	0.00
86	T	Atrazine		0.347	0.330	4.9	97	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	105	0.00
100	T	n-Octadecane		0.393	0.408	-3.8	108	0.00
101	T	Parathion	*	5.000	3.951	21.0#	90	0.00
102	T	3,3'-Dimethylbenzidine		0.696	0.560	19.5	88	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPICV.D
Acq On : 3 Jun 2024 8:15 am
Operator : SV107:jg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1929644,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:27:51 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	6.534	152	50098	4.000	ug/ml		0.00
Standard Area 2 = 48587			Recovery =	103.11%			
85) IS3_Acenaphthene-d10	9.727	164	112929	4.000	ug/ml		0.00
Standard Area 2 = 108359			Recovery =	104.22%			
99) IS3_Phenanthrene-d10	11.174	188	244668	4.000	ug/ml	#	0.00
Standard Area 2 = 233400			Recovery =	104.83%			
System Monitoring Compounds							
Target Compounds							Qvalue
33) n-Decane	6.422	57	88278	4.871	ug/ml	#	44
86) Atrazine	10.933	200	46602	4.755	ug/ml		95
100) n-Octadecane	11.139	57	124696	5.190	ug/ml	#	1
101) Parathion	11.957	109	16251	3.951	ug/ml		97
102) 3,3'-Dimethylbenzidine	13.262	212	171129	4.020	ug/ml		98

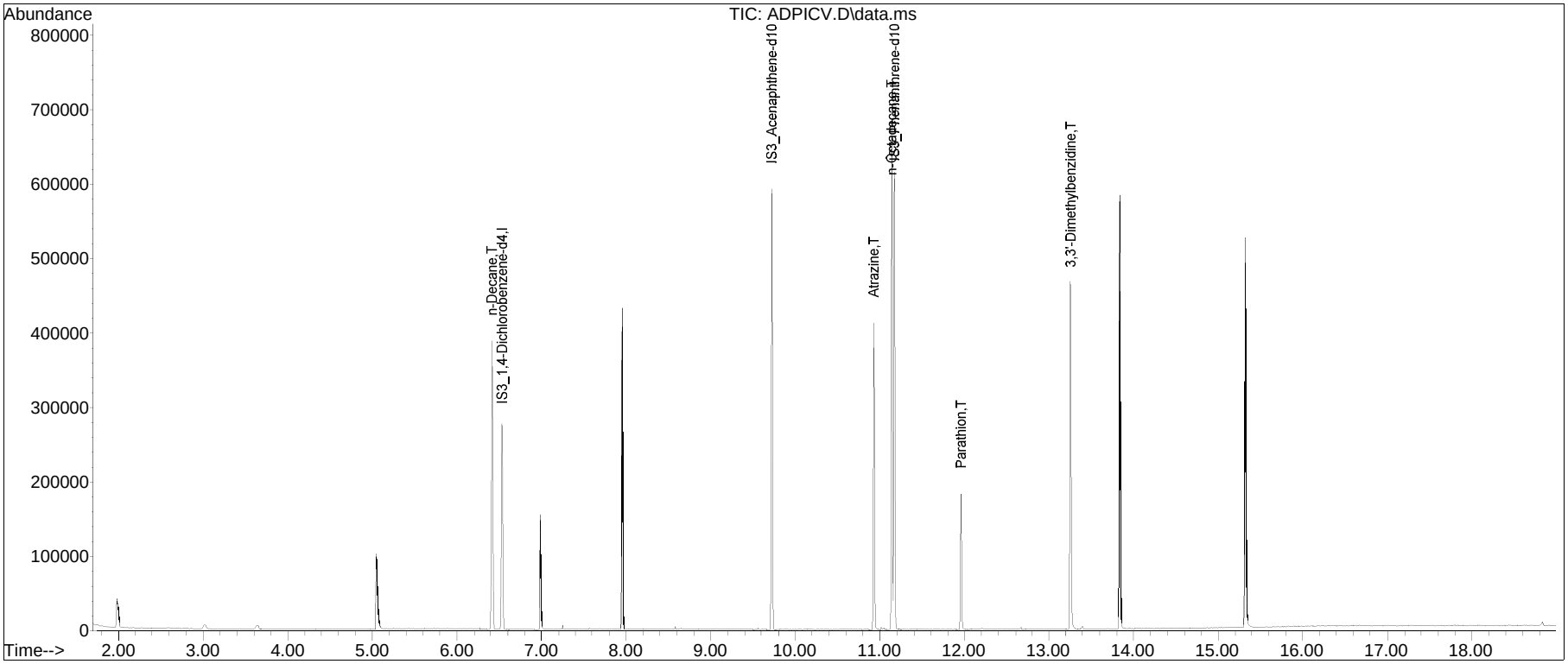
(#) = qualifier out of range (m) = manual integration (+) = signals summed

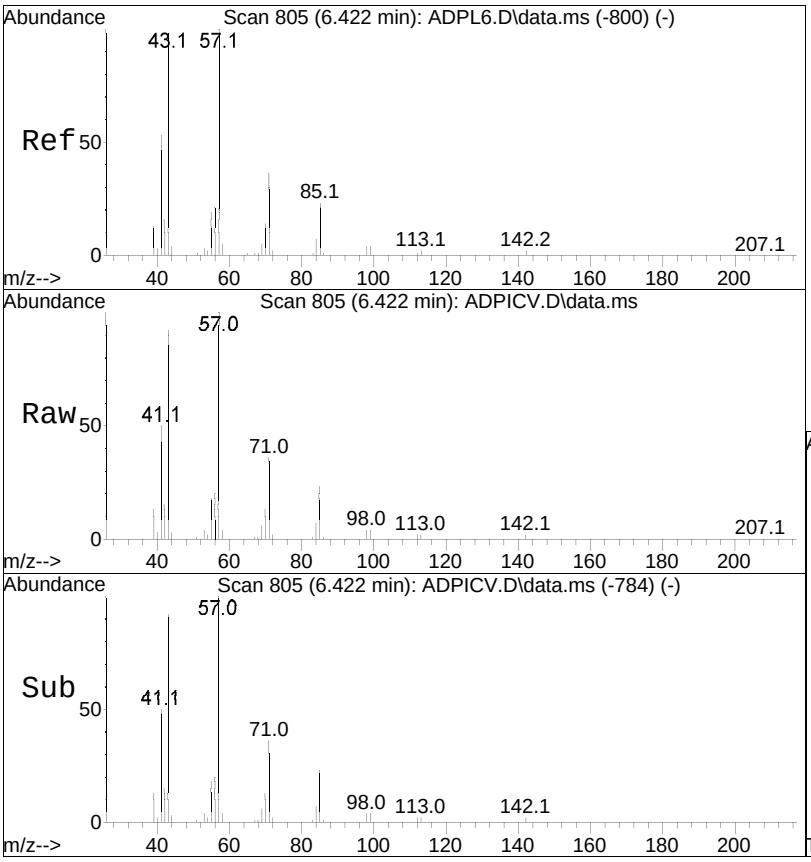
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPICV.D
Acq On : 3 Jun 2024 8:15 am
Operator : SV107:jg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1929644,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:27:51 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•

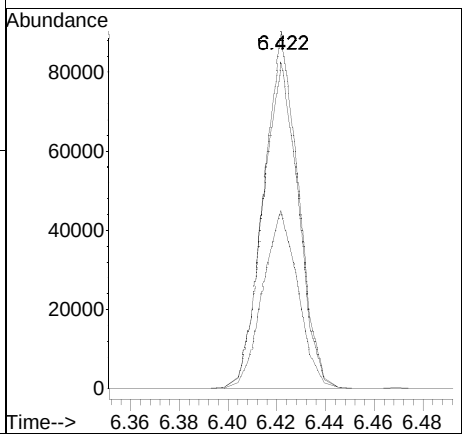


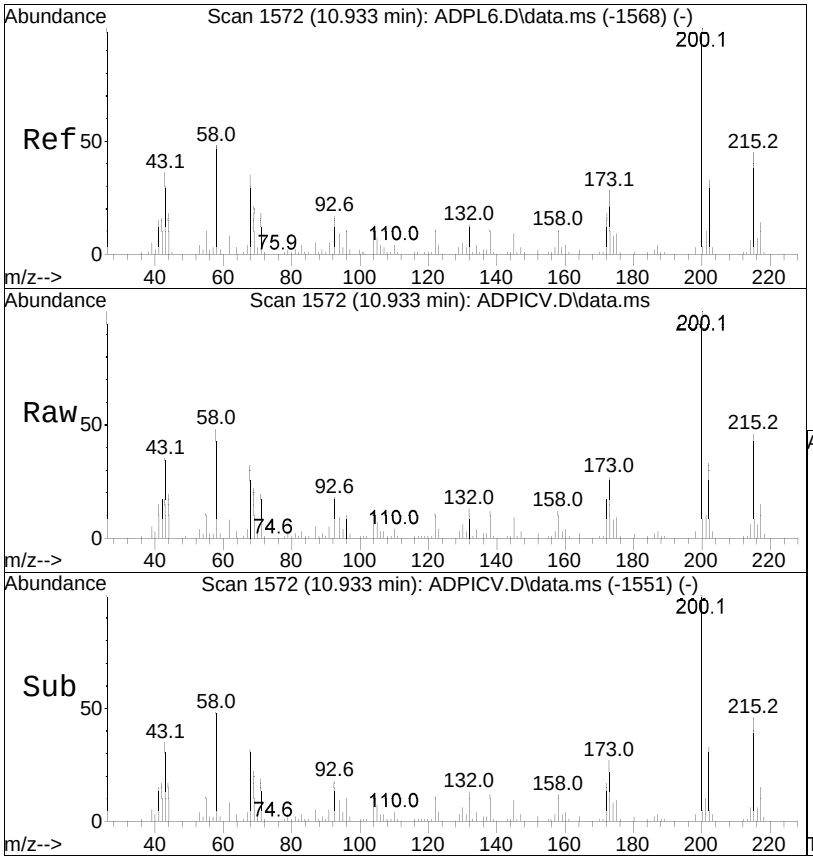


#33
n-Decane
Concen: 4.87 ug/ml
RT: 6.422 min Scan# 805
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion: 57 Resp: 88278

Ion	Ratio	Lower	Upper
57	100		
43	93.8	0.2	0.2#
41	50.7	0.2	0.2#

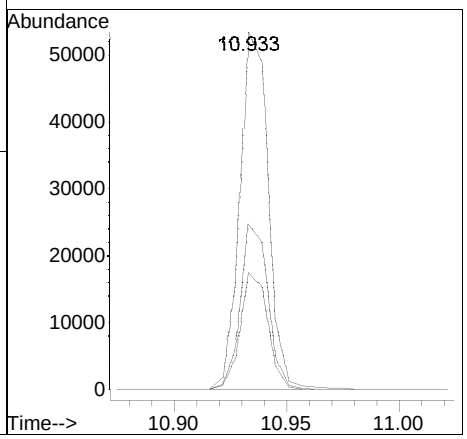


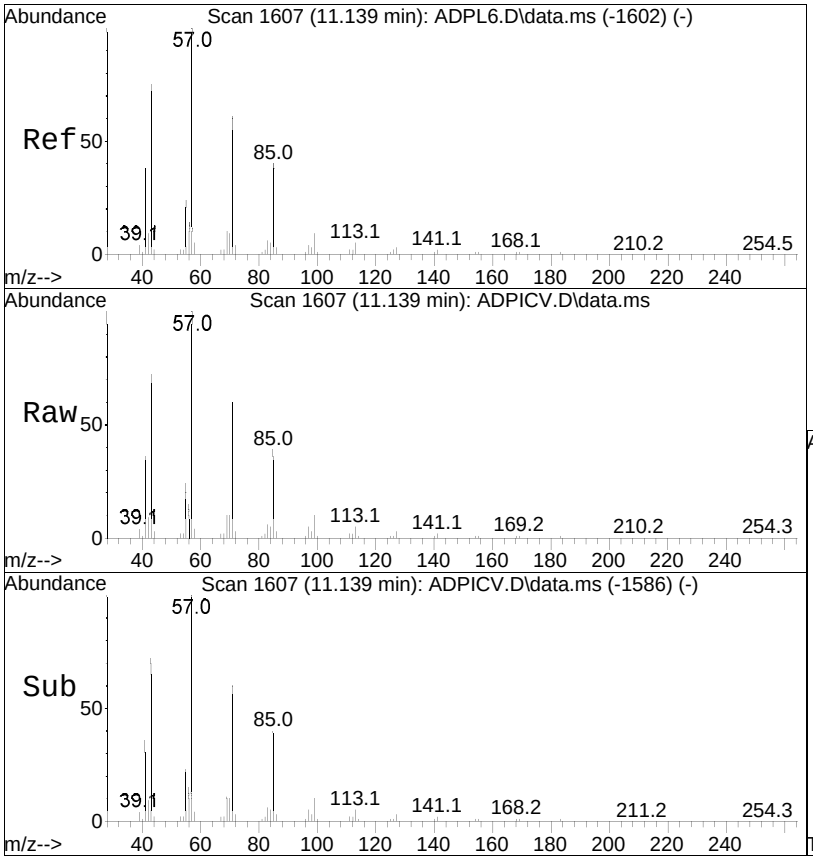


#86
Atrazine
Concen: 4.76 ug/ml
RT: 10.933 min Scan# 1572
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion:200 Resp: 46602

Ion	Ratio	Lower	Upper
200	100		
202	31.9	25.8	38.6
215	45.0	40.2	60.4

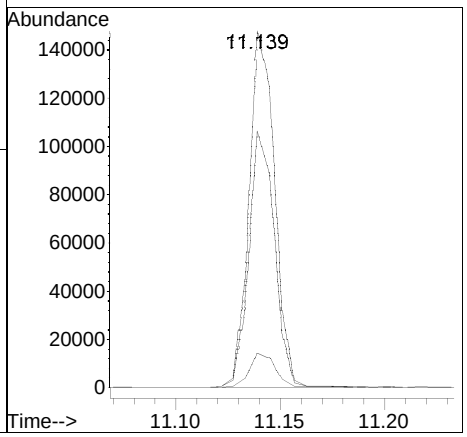


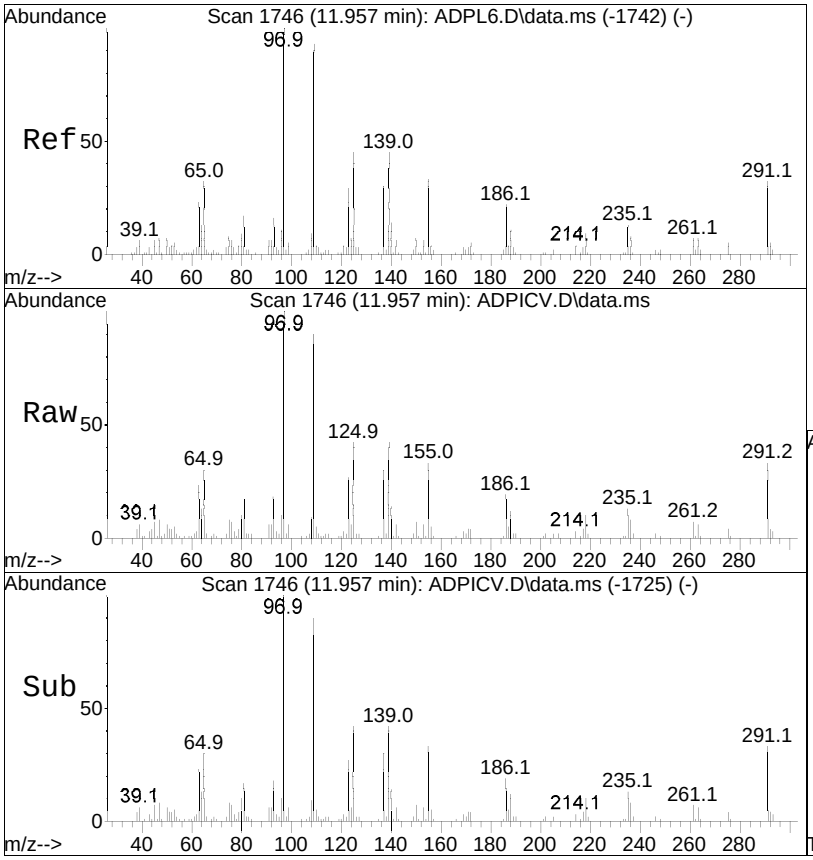


#100
n-Octadecane
Concen: 5.19 ug/ml
RT: 11.139 min Scan# 1607
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion: 57 Resp: 124696

Ion	Ratio	Lower	Upper
57	100		
43	72.2	9.0	13.6#
70	9.9	0.2	0.2#

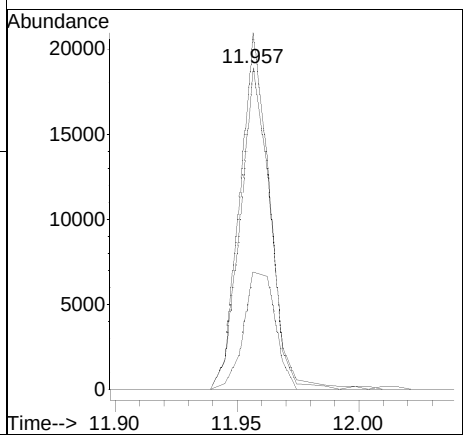


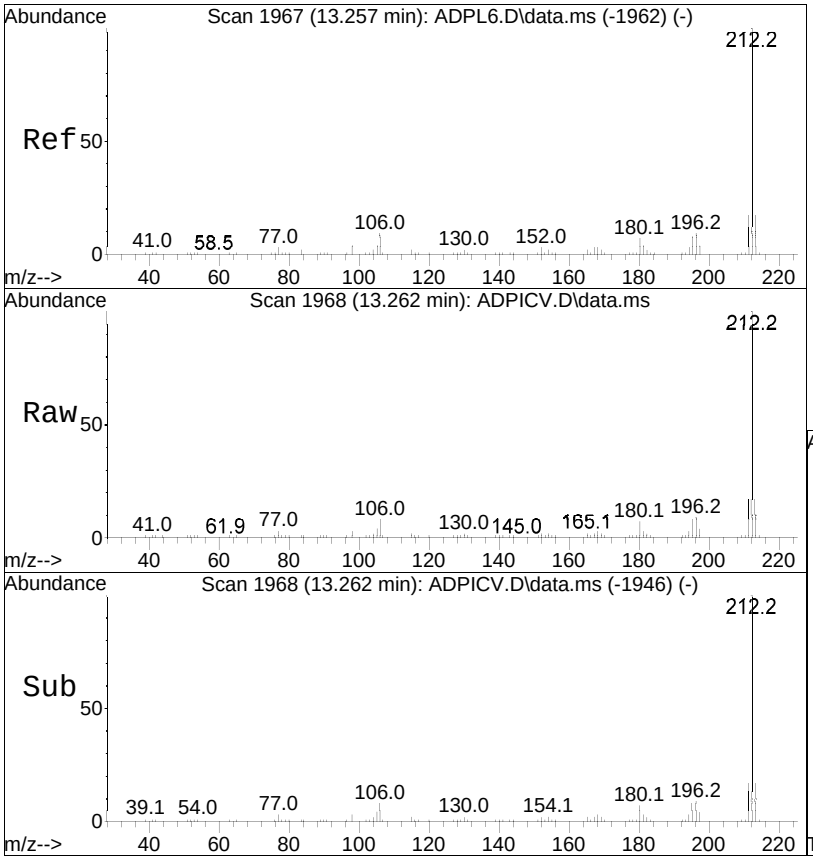


#101
Parathion
Concen: 3.95 ug/ml
RT: 11.957 min Scan# 1746
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion:109 Resp: 16251

Ion	Ratio	Lower	Upper
109	100		
97	107.2	87.4	131.2
291	38.3	34.2	51.2

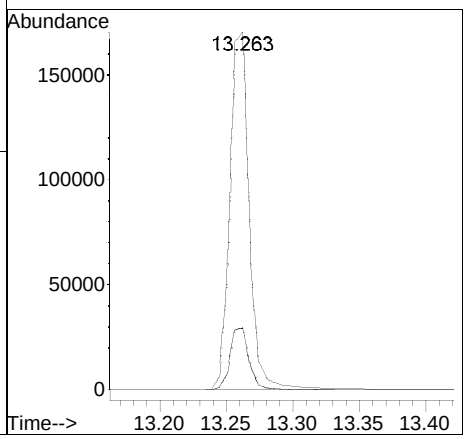




#102
3,3'-Dimethylbenzidine
Concen: 4.02 ug/ml
RT: 13.262 min Scan# 1968
Delta R.T. 0.005 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion:212 Resp: 171129

Ion	Ratio	Lower	Upper
212	100		
211	17.1	12.9	19.3
213	17.2	13.2	19.8



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPICV.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 8:15 am	Instrument	: SV107
Sample	: CQICV3,32,,ADPICV Lot# 106	Quant Date	: 6/3/2024 4:28 pm

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

Evaluate Relative Error Report SV107

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
36	T Benzoic Acid	L	ug/ml	5.0	4.765	-4.7	2.50	2.683	7.3
65	T 2,4-Dinitrophenol	L	ug/ml	5.0	4.255	-14.9	1.00	1.308	30.8
67	T 2,4-Dinitrotoluene	L	ug/ml	5.0	4.264	-14.7	0.50	0.672	34.4
75	T 4,6-Dinitro-o-cresol	L	ug/ml	5.0	3.927	-21.5	0.50	0.735	47.0
83	T Dichloran	Q	ug/ml	5.0	4.317	-13.7	1.00	1.187	18.7
84	T Pentachloronitrobenzene	Q	ug/ml	5.0	4.537	-9.3	1.00	1.124	12.4
96	T Butyl benzyl phthalate	L	ug/ml	5.0	4.159	-16.8	0.50	0.670	34.0
101	T Parathion	Q	ug/ml	5.0	4.503	-9.9	0.50	0.593	18.6
107	T Bis(2-ethylhexyl)phthalate	L	ug/ml	5.0	4.326	-13.5	0.20	0.285	42.5
108	T Di-n-octylphthalate	L	ug/ml	5.0	4.163	-16.7	0.50	0.659	31.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
36	T Benzoic Acid	Linear	0.999239	0.000000	0.246525	-0.0877201
65	T 2,4-Dinitrophenol	Linear	0.992182	0.000000	0.171609	-0.0408051
67	T 2,4-Dinitrotoluene	Linear	0.994784	0.000000	0.417373	-0.0391465
75	T 4,6-Dinitro-o-cresol	Linear	0.991136	0.000000	0.230601	-0.0318046
83	T Dichloran	Quadratic	0.997786	0.004249	0.148025	-0.0234694
84	T Pentachloronitrobenzene	Quadratic	0.998992	0.002852	0.160738	-0.0192012
96	T Butyl benzyl phthalate	Linear	0.996221	0.000000	0.560774	-0.0556932
101	T Parathion	Quadratic	0.998691	0.004558	0.067987	-0.00517977
107	T Bis(2-ethylhexyl)phthalate	Linear	0.993524	0.000000	0.893249	-0.0402223
108	T Di-n-octylphthalate	Linear	0.991815	0.000000	1.53318	-0.162213

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/27/24 23:28		
Lab File ID	: ABN0927N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1977425-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	102	0
n-Nitrosodimethylamine	0.71	0.651	-	8.3	20	93	0
Pyridine	1.086	1.036	-	4.6	20	88	0
2-Fluorophenol	1.08	1.058	-	2	20	99	0
Aniline	1.765	1.599	-	9.4	20	99	0
2-Chlorophenol	1.294	1.192	-	7.9	20	98	0
Phenol-d6	1.413	1.274	-	9.8	20	98	0
Phenol	1.566	1.391	-	11.2	20	97	0
Bis(2-chloroethyl)ether	1.247	1.119	-	10.3	20	102	0
1,3-Dichlorobenzene	1.587	1.382	-	12.9	20	96	0
1,4-Dichlorobenzene	1.599	1.392	-	12.9	20	96	0
1,2-Dichlorobenzene	1.562	1.319	-	15.6	20	94	0
Benzyl alcohol	1.01	0.98	-	3	20	109	0
Bis(2-chloroisopropyl)ethe	1.617	1.963	-	-21.4*	20	137	0
2-Methylphenol	1.126	1.033	-	8.3	20	105	0
Hexachloroethane	0.563	0.55	-	2.3	20	103	0
n-Nitrosodi-n-propylamine	0.862	0.86	-	0.2	20	113	0
3-Methylphenol/4-Methylphe	1.241	1.138	-	8.3	20	106	0
Nitrobenzene-d5	1.368	1.29	-	5.7	20	106	0
Nitrobenzene	1.312	1.269	-	3.3	20	107	0
Isophorone	2.344	2.316	-	1.2	20	111	0
2-Nitrophenol	0.667	0.632	-	5.2	20	108	0
2,4-Dimethylphenol	1.081	1.173	-	-8.5	20	180	0
Bis(2-chloroethoxy)methane	1.585	1.506	-	5	20	112	0
2,4-Dichlorophenol	1.18	1.092	-	7.5	20	104	0
1,2,4-Trichlorobenzene	1.405	1.229	-	12.5	20	100	0
IS1_Naphthalene-d8	1	1	-	0	20	103	0
Naphthalene	1.132	0.98	-	13.4	20	102	0
Benzoic Acid	5	5.557	-	-11.1	20	136	0
4-Chloroaniline	0.126	0.131	-	-4	20	111	0
Hexachlorobutadiene	0.224	0.214	-	4.5	20	107	0
p-Chloro-m-cresol	0.283	0.301	-	-6.4	20	120	0
2-Methylnaphthalene	0.737	0.684	-	7.2	20	107	0
1-Methylnaphthalene	0.238	0.241	-	-1.3	20	114	0
Hexachlorocyclopentadiene	0.212	0.241	-	-13.7	20	125	0
2,4,6-Trichlorophenol	0.234	0.236	-	-0.9	20	111	0
2,4,5-Trichlorophenol	0.249	0.252	-	-1.2	20	110	0
2-Fluorobiphenyl	0.9	0.802	-	10.9	20	108	0
2-Chloronaphthalene	0.763	0.693	-	9.2	20	110	0
2-Nitroaniline	0.204	0.205	-	-0.5	20	116	0
1,4-Dinitrobenzene	0.11	0.109	-	0.9	20	126	0
1,3-Dinitrobenzene	0.129	0.122	-	5.4	20	120	0
Dimethyl phthalate	0.863	0.846	-	2	20	118	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/27/24 23:28		
Lab File ID	: ABN0927N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1977425-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.132	1.063	-	6.1	20	111	0
2,6-Dinitrotoluene	0.169	0.173	-	-2.4	20	116	0
1,2-Dinitrobenzene	0.077	0.079	-	-2.6	20	120	0
IS1_Acenaphthene-d10	1	1	-	0	20	112	0
3-Nitroaniline	0.32	0.31	-	3.1	20	112	0
Acenaphthene	1.138	1.007	-	11.5	20	110	0
2,4-Dinitrophenol	5	5.211	-	-4.2	20	162	0
Dibenzofuran	1.879	1.612	-	14.2	20	110	0
2,4-Dinitrotoluene	0.408	0.402	-	1.5	20	121	0
4-Nitrophenol	0.253	0.262	-	-3.6	20	122	0
2,3,5,6-Tetrachlorophenol	0.341	0.346	-	-1.5	20	114	0
2,3,4,6-Tetrachlorophenol	0.325	0.336	-	-3.4	20	113	0
Diethyl phthalate	1.327	1.454	-	-9.6	20	141	0
Fluorene	1.404	1.321	-	5.9	20	118	0
4-Chlorophenyl phenyl ethe	0.713	0.654	-	8.3	20	116	0
4-Nitroaniline	0.32	0.306	-	4.4	20	114	0
4,6-Dinitro-o-cresol	5	4.997	-	0.1	20	152	0
NDPA/DPA	1.166	1.121	-	3.9	20	119	0
Azobenzene	1.226	1.326	-	-8.2	20	131	0
2,4,6-Tribromophenol	0.187	0.146	-	21.9*	20	96	0
4-Bromophenyl phenyl ether	0.385	0.354	-	8.1	20	116	0
Hexachlorobenzene	0.425	0.346	-	18.6	20	101	0
Pentachlorophenol	5	4.223	-	15.5	20	116	0
IS1_Phenanthrene-d10	1	1	-	0	20	127	0
Phenanthrene	1.151	0.965	-	16.2	20	120	0
Anthracene	1.089	0.985	-	9.6	20	126	0
Carbazole	0.994	0.919	-	7.5	20	127	0
Di-n-butylphthalate	1.094	1.247	-	-14	20	167	0
Fluoranthene	1.261	1.164	-	7.7	20	130	0
Benzidine	5	4.846	-	3.1	20	170	0
Pyrene	1.372	1.22	-	11.1	20	126	0
4-Terphenyl-d14	0.946	0.819	-	13.4	20	126	0
Butyl benzyl phthalate	5	4.912	-	1.8	20	184	0
IS1_Chrysene-d12	1	1	-	0	20	125	0
Benzo(a)anthracene	1.453	1.323	-	8.9	20	124	0
3,3'-Dichlorobenzidine	5	4.205	-	15.9	20	130	0
Chrysene	1.403	1.227	-	12.5	20	120	0
Bis(2-ethylhexyl)phthalate	5	6.463	-	-29.3*	20	193	0
Di-n-octylphthalate	5	6.041	-	-20.8*	20	212	0
Benzo(b)fluoranthene	1.251	1.182	-	5.5	20	124	0
Benzo(k)fluoranthene	1.251	1.17	-	6.5	20	115	0
Benzo(a)pyrene	1.101	1.047	-	4.9	20	118	0
IS1_Perylene-d12	1	1	-	0	20	122	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/27/24 23:28		
Lab File ID	: ABN0927N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1977425-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.098	0.969	-	11.7	20	111	0
Dibenzo(a,h)anthracene	1.056	0.929	-	12	20	109	0
Benzo(ghi)perylene	0.977	0.908	-	7.1	20	108	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/27/24 23:54		
Lab File ID	: AP90927N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1977425-4	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	79	0
Benzaldehyde	1.145	1.163	-	-1.6	20	84	0
Acetophenone	2.032	1.99	-	2.1	20	82	0
m-Toluidine	1.86	1.922	-	-3.3	20	80	0
2-Chloroaniline	1.773	1.725	-	2.7	20	77	0
IS2_Naphthalene-d8	1	1	-	0	20	82	0
a-Terpineol	0.297	0.33	-	-11.1	20	88	0
3-Chloroaniline	0.163	0.168	-	-3.1	20	83	0
2,6-Dichlorophenol	0.319	0.317	-	0.6	20	78	0
1-chloro-2-nitrobenzene	0.155	0.158	-	-1.9	20	84	0
Caprolactam	5	5.286	-	-5.7	20	98	0
1,2,4,5-Tetrachlorobenzene	0.444	0.381	-	14.2	20	73	0
Biphenyl	1.036	0.889	-	14.2	20	74	0
IS2_Acenaphthene-d10	1	1	-	0	20	83	0
Dichloran	5	4.621	-	7.6	20	96	0
Pentachloronitrobenzene	5	5.213	-	-4.3	20	103	0
IS2_Phenanthrene-d10	1	1	-	0	20	88	0
Diphenamid	0.507	0.545	-	-7.5	20	99	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/28/24 00:19		
Lab File ID	: ADP0927N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1977425-5	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	72	0
1,4-Dioxane	0.459	0.432	-	5.9	20	78	0
n-Decane	1.388	1.578	-	-13.7	20	90	0
IS3_Acenaphthene-d10	1	1	-	0	20	79	0
Atrazine	0.315	0.372	-	-18.1	20	93	0
IS3_Phenanthrene-d10	1	1	-	0	20	82	0
n-Octadecane	0.381	0.516	-	-35.4*	20	114	0
Parathion	5	6.955	-	-39.1*	20	142	0
3,3'-Dimethylbenzidine	5	4.48	-	10.4	20	96	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240927NRVT\
Data File : ABN0927n.D
Acq On : 27 Sep 2024 11:28 pm
Operator : SV107:gmr
Sample : WG1977425-3,32,,ABN RVT CCV Lot # 10908
Misc : WG1977425,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 23:52:27 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 23:53:27 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	102	0.00
2	t	n-Nitrosodimethylamine		0.710	0.651	8.3	93	0.00
3	t	Pyridine		1.086	1.036	4.6	88	0.00
4	S	2-Fluorophenol		1.080	1.058	2.0	99	0.00
5	T	Aniline		1.765	1.599	9.4	99	0.00
6	t	2-Chlorophenol		1.294	1.192	7.9	98	0.00
7	S	Phenol-d6		1.413	1.274	9.8	98	0.00
8	T	Phenol		1.566	1.391	11.2	97	0.00
9	T	Bis(2-chloroethyl)ether		1.247	1.119	10.3	102	0.00
10	T	1,3-Dichlorobenzene		1.587	1.382	12.9	96	0.00
11	T	1,4-Dichlorobenzene		1.599	1.392	12.9	96	0.00
12	T	1,2-Dichlorobenzene		1.562	1.319	15.6	94	0.00
13	t	Benzyl alcohol		1.010	0.980	3.0	109	0.00
14	T	Bis(2-chloroisopropyl)ether		1.617	1.963	-21.4#	137	0.00
15	T	2-Methylphenol		1.126	1.033	8.3	105	0.00
16	T	Hexachloroethane		0.563	0.550	2.3	103	0.00
17	T	n-Nitrosodi-n-propylamine		0.862	0.860	0.2	113	0.00
18	T	3-Methylphenol/4-Methylphen		1.241	1.138	8.3	106	0.00
19	S	Nitrobenzene-d5		1.368	1.290	5.7	106	0.00
20	T	Nitrobenzene		1.312	1.269	3.3	107	0.00
21	T	Isophorone		2.344	2.316	1.2	111	0.00
22	T	2-Nitrophenol		0.667	0.632	5.2	108	0.00
23	T	2,4-Dimethylphenol		1.081	1.173	-8.5	180	0.00
24	T	Bis(2-chloroethoxy)methane		1.585	1.506	5.0	112	0.00
25	T	2,4-Dichlorophenol		1.180	1.092	7.5	104	0.00
26	T	1,2,4-Trichlorobenzene		1.405	1.229	12.5	100	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	103	0.00
36	T	Naphthalene		1.132	0.980	13.4	102	0.00
37	T	Benzoic Acid	*	5.000	5.557	-11.1	136	0.00
38	T	4-Chloroaniline		0.126	0.131	-4.0	111	0.00
39	T	Hexachlorobutadiene		0.224	0.214	4.5	107	0.00
40	T	p-Chloro-m-cresol		0.283	0.301	-6.4	120	0.00
41	T	2-Methylnaphthalene		0.737	0.684	7.2	107	0.00
42	T	1-Methylnaphthalene		0.238	0.241	-1.3	114	0.00
43	T	Hexachlorocyclopentadiene		0.212	0.241	-13.7	125	0.00
44	T	2,4,6-Trichlorophenol		0.234	0.236	-0.9	111	0.00
45	T	2,4,5-Trichlorophenol		0.249	0.252	-1.2	110	0.00
46	S	2-Fluorobiphenyl		0.900	0.802	10.9	108	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240927NRVT\
Data File : ABN0927n.D
Acq On : 27 Sep 2024 11:28 pm
Operator : SV107:gmr
Sample : WG1977425-3,32,,ABN RVT CCV Lot # 10908
Misc : WG1977425,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 23:52:27 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 23:53:27 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	2-Chloronaphthalene		0.763	0.693	9.2	110	0.00
48	T	2-Nitroaniline		0.204	0.205	-0.5	116	0.00
49	T	1,4-Dinitrobenzene		0.110	0.109	0.9	126	0.00
50	T	1,3-Dinitrobenzene		0.129	0.122	5.4	120	0.00
51	T	Dimethyl phthalate		0.863	0.846	2.0	118	0.00
52	T	Acenaphthylene		1.132	1.063	6.1	111	0.00
53	T	2,6-Dinitrotoluene		0.169	0.173	-2.4	116	0.00
54	T	1,2-Dinitrobenzene		0.077	0.079	-2.6	120	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	112	0.00
64	T	3-Nitroaniline		0.320	0.310	3.1	112	0.00
65	T	Acenaphthene		1.138	1.007	11.5	110	0.00
66	T	2,4-Dinitrophenol	*	5.000	5.211	-4.2	162	0.00
67	T	Dibenzofuran		1.879	1.612	14.2	110	0.00
68	T	2,4-Dinitrotoluene		0.408	0.402	1.5	121	0.00
69	T	4-Nitrophenol		0.253	0.262	-3.6	122	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.341	0.346	-1.5	114	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.325	0.336	-3.4	113	0.00
72	T	Diethyl phthalate		1.327	1.454	-9.6	141	0.00
73	T	Fluorene		1.404	1.321	5.9	118	0.00
74	T	4-Chlorophenyl phenyl ether		0.713	0.654	8.3	116	0.00
75	T	4-Nitroaniline		0.320	0.306	4.4	114	0.00
76	T	4,6-Dinitro-o-cresol	*	5.000	4.997	0.1	152	0.00
77	T	NDPA/DPA		1.166	1.121	3.9	119	0.00
78	T	Azobenzene		1.226	1.326	-8.2	131	0.00
79	S	2,4,6-Tribromophenol		0.187	0.146	21.9#	96	0.00
80	T	4-Bromophenyl phenyl ether		0.385	0.354	8.1	116	0.00
81	T	Hexachlorobenzene		0.425	0.346	18.6	101	0.00
82	T	Pentachlorophenol	*	5.000	4.223	15.5	116	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	127	0.00
89	T	Phenanthrene		1.151	0.965	16.2	120	0.00
90	T	Anthracene		1.089	0.985	9.6	126	0.00
91	T	Carbazole		0.994	0.919	7.5	127	0.00
92	T	Di-n-butylphthalate		1.094	1.247	-14.0	167	0.00
93	T	Fluoranthene		1.261	1.164	7.7	130	0.00
94	T	Benzidine	*	5.000	4.846	3.1	170	0.00
95	T	Pyrene		1.372	1.220	11.1	126	0.00
96	S	4-Terphenyl-d14		0.946	0.819	13.4	126	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240927NRVT\
Data File : ABN0927n.D
Acq On : 27 Sep 2024 11:28 pm
Operator : SV107:gmr
Sample : WG1977425-3,32,,ABN RVT CCV Lot # 10908
Misc : WG1977425,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 23:52:27 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 23:53:27 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
97	T	Butyl benzyl phthalate	*	5.000	4.912	1.8	184	0.00
104	I	IS1_Chrysene-d12		1.000	1.000	0.0	125	0.00
105	T	Benzo(a)anthracene		1.453	1.323	8.9	124	0.00
106	T	3,3'-Dichlorobenzidine	*	5.000	4.205	15.9	130	0.00
107	T	Chrysene		1.403	1.227	12.5	120	0.00
108	T	Bis(2-ethylhexyl)phthalate	*	5.000	6.463	-29.3#	193	0.00
109	T	Di-n-octylphthalate	*	5.000	6.041	-20.8#	212	0.00
110	T	Benzo(b)fluoranthene		1.251	1.182	5.5	124	0.00
111	T	Benzo(k)fluoranthene		1.251	1.170	6.5	115	0.00
112	T	Benzo(a)pyrene		1.101	1.047	4.9	118	0.00
113	I	IS1_Perylene-d12		1.000	1.000	0.0	122	0.00
114	T	Indeno(1,2,3-cd)pyrene		1.098	0.969	11.7	111	0.00
115	T	Dibenzo(a,h)anthracene		1.056	0.929	12.0	109	0.00
116	T	Benzo(ghi)perylene		0.977	0.908	7.1	108	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : ABN0927n.D
Acq On : 27 Sep 2024 11:28 pm
Operator : SV107:gmr
Sample : WG1977425-3,32,,ABN RVT CCV Lot # 10908
Misc : WG1977425,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 23:52:27 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 23:53:27 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
1)	IS1_1,4-Dichlorobenzen...	6.475	152	14778	4.000	ug/ml	0.00
35)	IS1_Naphthalene-d8	7.892	136	54938	4.000	ug/ml	0.00
63)	IS1_Acenaphthene-d10	9.651	164	33659	4.000	ug/ml	0.00
88)	IS1_Phenanthrene-d10	11.092	188	70037	4.000	ug/ml	0.00
104)	IS1_Chrysene-d12	13.727	240	61504	4.000	ug/ml	0.00
113)	IS1_Perylene-d12	15.198	264	65134	4.000	ug/ml	0.00
	System Monitoring Compounds						
4)	2-Fluorophenol	4.616	112	19544	4.899	ug/ml	0.00
	Spiked Amount 2.000	Range 15 - 110		Recovery = 244.95%#			
7)	Phenol-d6	6.098	99	23526	4.507	ug/ml	0.00
	Spiked Amount 2.000	Range 15 - 110		Recovery = 225.35%#			
19)	Nitrobenzene-d5	7.122	82	23832	4.717	ug/ml	0.00
	Spiked Amount 1.000	Range 30 - 130		Recovery = 471.70%#			
46)	2-Fluorobiphenyl	9.010	172	55107	4.458	ug/ml	0.00
	Spiked Amount 1.000	Range 30 - 130		Recovery = 445.80%#			
79)	2,4,6-Tribromophenol	10.422	330	6153	3.904	ug/ml	0.00
	Spiked Amount 2.000	Range 15 - 110		Recovery = 195.20%#			
96)	4-Terphenyl-d14	12.669	244	71695	4.330	ug/ml	0.00
	Spiked Amount 1.000	Range 30 - 130		Recovery = 433.00%#			
	Target Compounds						Qvalue
2)	n-Nitrosodimethylamine	2.205	74	12027	4.583	ug/ml#	70
3)	Pyridine	2.240	79	19146	4.770	ug/ml#	75
5)	Aniline	6.069	93	29545	4.531	ug/ml	99
6)	2-Chlorophenol	6.210	128	22022	4.605	ug/ml	95
8)	Phenol	6.116	94	25692	4.440	ug/ml	97
9)	Bis(2-chloroethyl)ether	6.193	93	20669	4.485	ug/ml#	79
10)	1,3-Dichlorobenzene	6.398	146	25534	4.354	ug/ml	99
11)	1,4-Dichlorobenzene	6.493	146	25716	4.352	ug/ml	99
12)	1,2-Dichlorobenzene	6.669	146	24365	4.223	ug/ml	99
13)	Benzyl alcohol	6.675	79	18100	4.852	ug/ml	99
14)	Bis(2-chloroisopropyl)...	6.851	45	36255	6.068	ug/ml#	61
15)	2-Methylphenol	6.845	108	19078	4.584	ug/ml	97
16)	Hexachloroethane	7.057	117	10165	4.889	ug/ml#	70
17)	n-Nitrosodi-n-propylamine	6.998	70	15895	4.991	ug/ml	93
18)	3-Methylphenol/4-Methy...	7.028	108	21023	4.585	ug/ml	98
20)	Nitrobenzene	7.145	77	23442	4.836	ug/ml	99
21)	Isophorone	7.422	82	42775	4.940	ug/ml	95
22)	2-Nitrophenol	7.498	139	11666	4.738	ug/ml#	91

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : ABN0927n.D
Acq On : 27 Sep 2024 11:28 pm
Operator : SV107:gmr
Sample : WG1977425-3,32,,ABN RVT CCV Lot # 10908
Misc : WG1977425,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 23:52:27 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 23:53:27 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	7.598	107	21675	5.425	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.692	93	27824	4.752	ug/ml	99
25) 2,4-Dichlorophenol	7.763	162	20168	4.624	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.845	180	22708	4.375	ug/ml	99
36) Naphthalene	7.910	128	67320	4.330	ug/ml	99
37) Benzoic Acid	7.687	105	15261	5.557	ug/ml	98
38) 4-Chloroaniline	7.992	65	9019	5.196	ug/ml	96
39) Hexachlorobutadiene	8.081	225	14664	4.771	ug/ml	98
40) p-Chloro-m-cresol	8.516	107	20683	5.324	ug/ml	96
41) 2-Methylnaphthalene	8.628	142	46978	4.639	ug/ml	95
42) 1-Methylnaphthalene	8.722	115	16583	5.069	ug/ml	90
43) Hexachlorocyclopentadiene	8.804	237	16577	5.702	ug/ml	98
44) 2,4,6-Trichlorophenol	8.928	196	16190	5.036	ug/ml	100
45) 2,4,5-Trichlorophenol	8.951	196	17325	5.073	ug/ml	96
47) 2-Chloronaphthalene	9.104	162	47581	4.540	ug/ml	97
48) 2-Nitroaniline	9.222	138	14050	5.012	ug/ml	92
49) 1,4-Dinitrobenzene	9.351	168	7514	4.980	ug/ml	82
50) 1,3-Dinitrobenzene	9.428	168	8399	4.740	ug/ml#	1
51) Dimethyl phthalate	9.422	163	58082	4.903	ug/ml#	99
52) Acenaphthylene	9.510	152	73023	4.695	ug/ml	99
53) 2,6-Dinitrotoluene	9.469	165	11887	5.127	ug/ml	87
54) 1,2-Dinitrobenzene	9.510	168	5433	5.157	ug/ml#	1
64) 3-Nitroaniline	9.622	138	13061	4.850	ug/ml	98
65) Acenaphthene	9.681	154	42349	4.422	ug/ml	90
66) 2,4-Dinitrophenol	9.722	184	8137	5.211	ug/ml	91
67) Dibenzofuran	9.857	168	67837	4.290	ug/ml	100
68) 2,4-Dinitrotoluene	9.857	165	16905	4.919	ug/ml	95
69) 4-Nitrophenol	9.810	65	11016	5.173	ug/ml#	88
70) 2,3,5,6-Tetrachlorophenol	9.945	232	14561	5.073	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	9.986	232	14129	5.162	ug/ml	97
72) Diethyl phthalate	10.116	149	61158	5.477	ug/ml	99
73) Fluorene	10.186	166	55576	4.703	ug/ml	97
74) 4-Chlorophenyl phenyl ...	10.204	204	27503	4.585	ug/ml	96
75) 4-Nitroaniline	10.216	138	12881	4.781	ug/ml#	84
76) 4,6-Dinitro-o-cresol	10.251	198	10543	4.997	ug/ml#	69
77) NDPA/DPA	10.322	169	47165	4.808	ug/ml	94
78) Azobenzene	10.357	77	55790	5.406	ug/ml	98
80) 4-Bromophenyl phenyl e...	10.675	248	14912	4.604	ug/ml	95
81) Hexachlorobenzene	10.728	284	14542	4.069	ug/ml#	92
82) Pentachlorophenol	10.922	266	10148	4.223	ug/ml	100
89) Phenanthrene	11.110	178	84478	4.191	ug/ml	99

Data Path : I:\8270\SV107\240927NRVT\
Data File : ABN0927n.D
Acq On : 27 Sep 2024 11:28 pm
Operator : SV107:gmr
Sample : WG1977425-3,32,,ABN RVT CCV Lot # 10908
Misc : WG1977425,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 23:52:27 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 23:53:27 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Anthracene	11.163	178	86207	4.521	ug/ml	99
91) Carbazole	11.327	167	80433	4.623	ug/ml	98
92) Di-n-butylphthalate	11.716	149	109135	5.697	ug/ml	99
93) Fluoranthene	12.263	202	101932	4.617	ug/ml#	92
94) Benzidine	12.416	184	62544	4.846	ug/ml#	95
95) Pyrene	12.480	202	106811	4.447	ug/ml	99
97) Butyl benzyl phthalate	13.192	149	48879	4.912	ug/ml	88
105) Benzo(a)anthracene	13.716	228	101732	4.552	ug/ml	99
106) 3,3'-Dichlorobenzidine	13.716	252	33603	4.205	ug/ml#	97
107) Chrysene	13.757	228	94369	4.373	ug/ml	98
108) Bis(2-ethylhexyl)phtha...	13.833	149	78881	6.463	ug/ml#	92
109) Di-n-octylphthalate	14.510	149	130918	6.041	ug/ml#	72
110) Benzo(b)fluoranthene	14.827	252	90890	4.723	ug/ml#	96
111) Benzo(k)fluoranthene	14.857	252	89970	4.676	ug/ml#	94
112) Benzo(a)pyrene	15.139	252	80514	4.757	ug/ml#	96
114) Indeno(1,2,3-cd)pyrene	16.186	276	78868M6	4.411	ug/mL	
115) Dibenzo(a,h)anthracene	16.210	278	75671	4.402	ug/ml#	94
116) Benzo(ghi)perylene	16.451	276	73941	4.646	ug/ml#	92

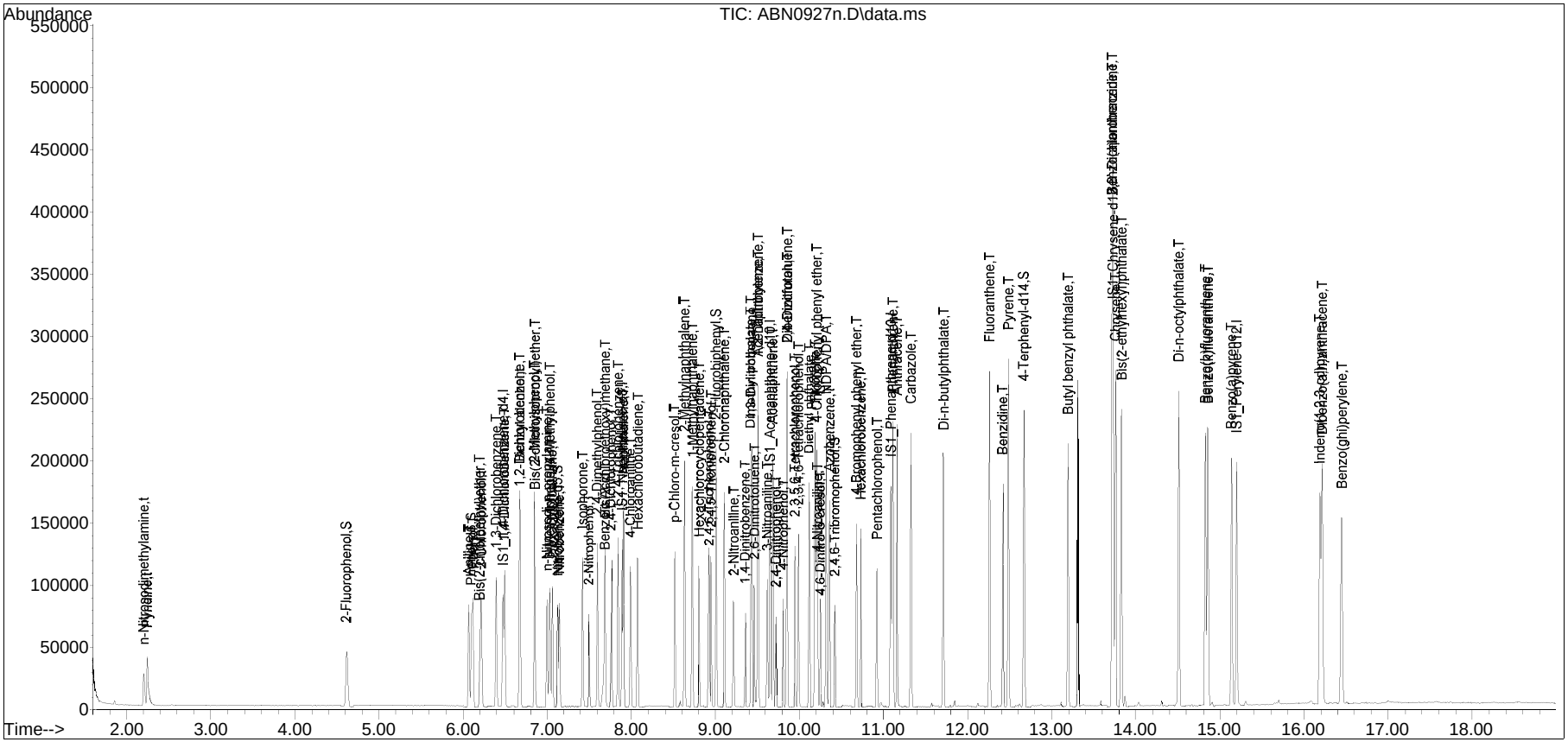
(#) = qualifier out of range (m) = manual integration (+) = signals summed

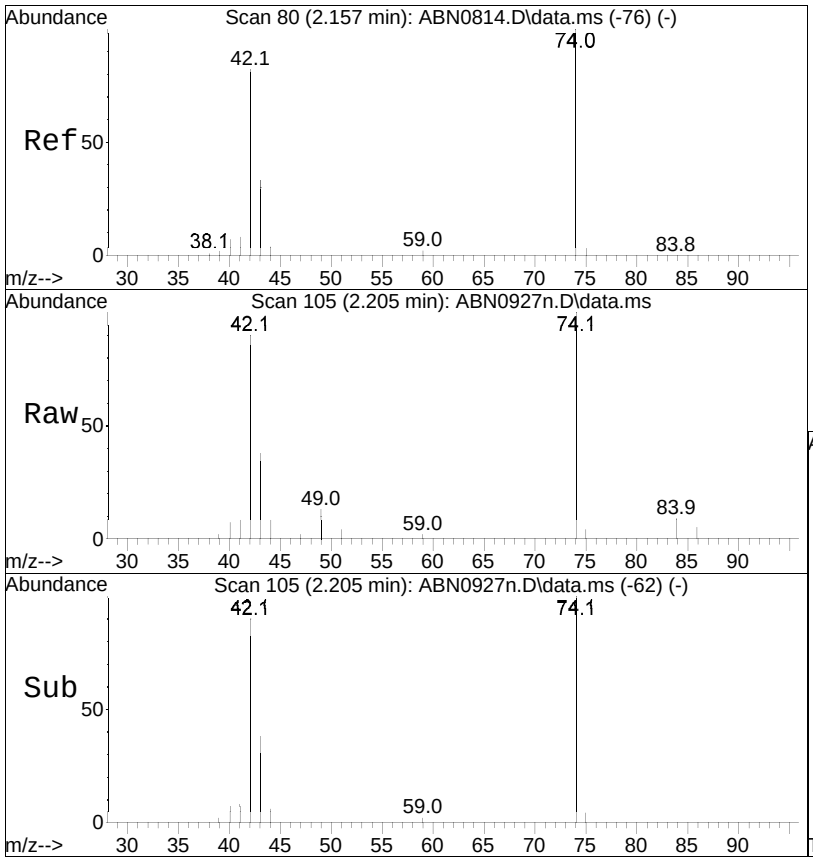
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : ABN0927n.D
Acq On : 27 Sep 2024 11:28 pm
Operator : SV107:gmr
Sample : WG1977425-3,32,,ABN RVT CCV Lot # 10908
Misc : WG1977425,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 27 23:52:27 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 23:53:27 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

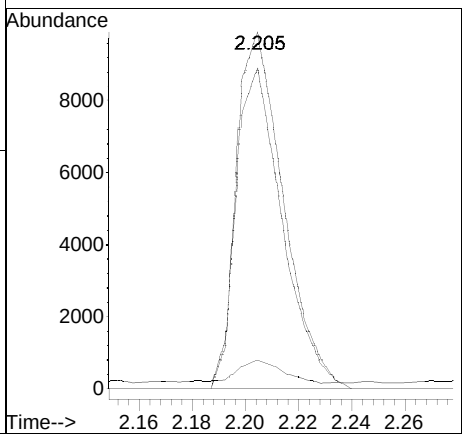


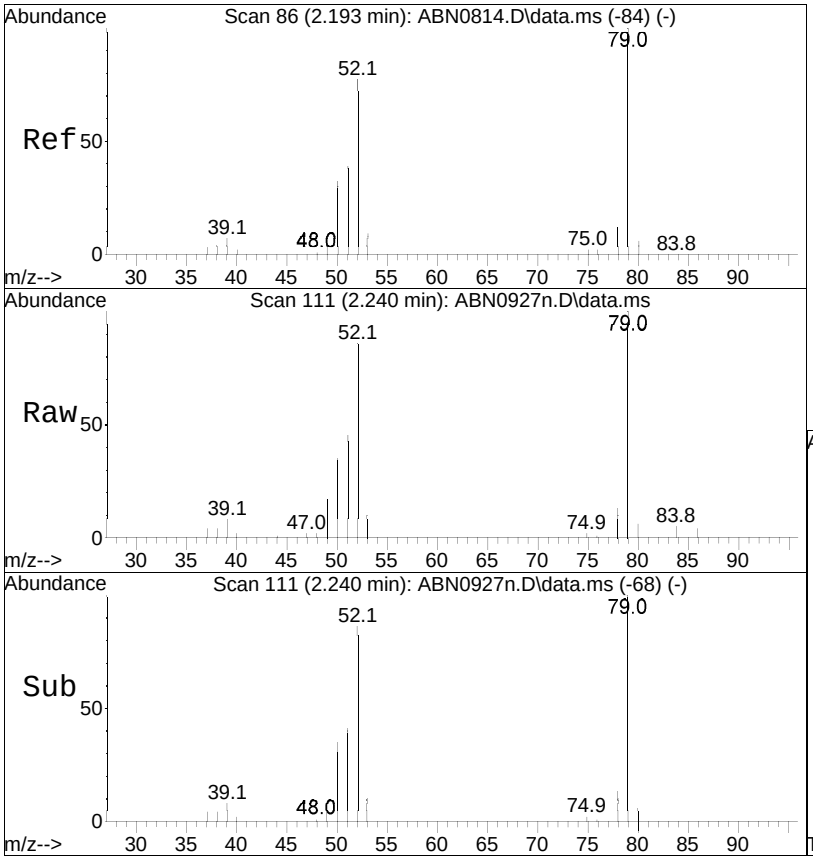


#2
n-Nitrosodimethylamine
Concen: 4.58 ug/ml
RT: 2.205 min Scan# 105
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 74 Resp: 12027

Ion	Ratio	Lower	Upper
74	100		
42	89.1	100.0	150.0#
44	6.6	6.7	10.1#

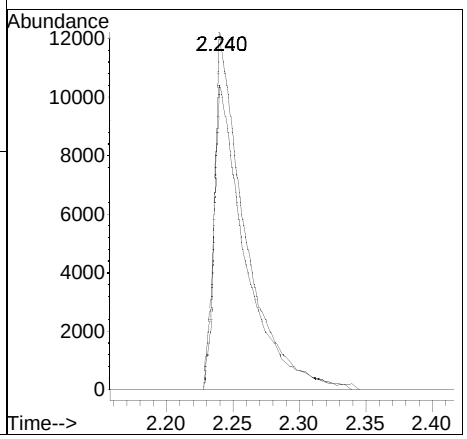


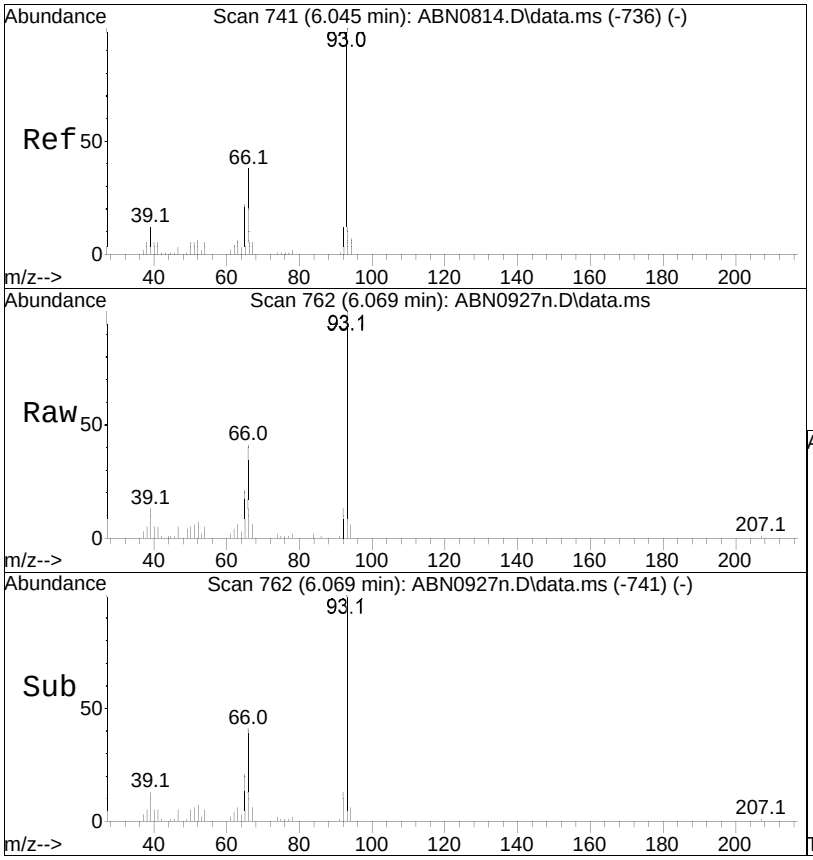


#3
Pyridine
Concen: 4.77 ug/ml
RT: 2.240 min Scan# 111
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 79 Resp: 19146

Ion	Ratio	Lower	Upper
79	100		
52	89.1	93.1	139.7#

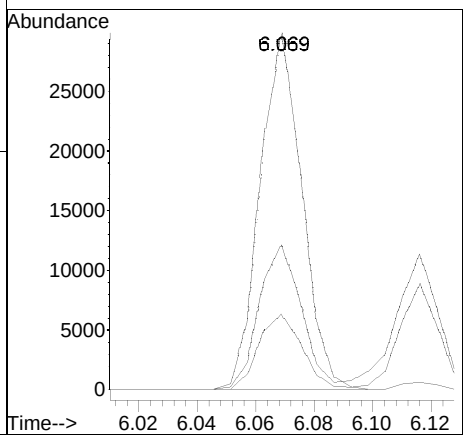


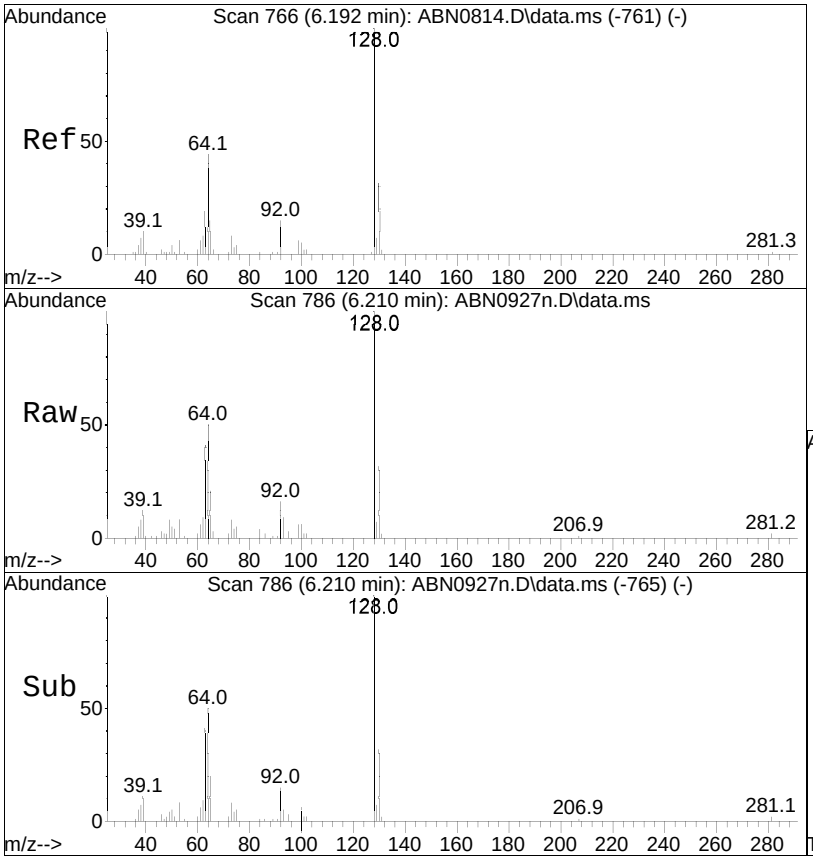


#5
Aniline
Concen: 4.53 ug/ml
RT: 6.069 min Scan# 762
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 93 Resp: 29545

Ion	Ratio	Lower	Upper
93	100		
66	41.4	32.6	49.0
65	22.1	17.6	26.4

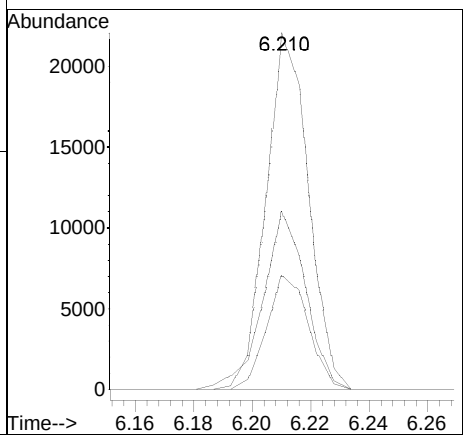


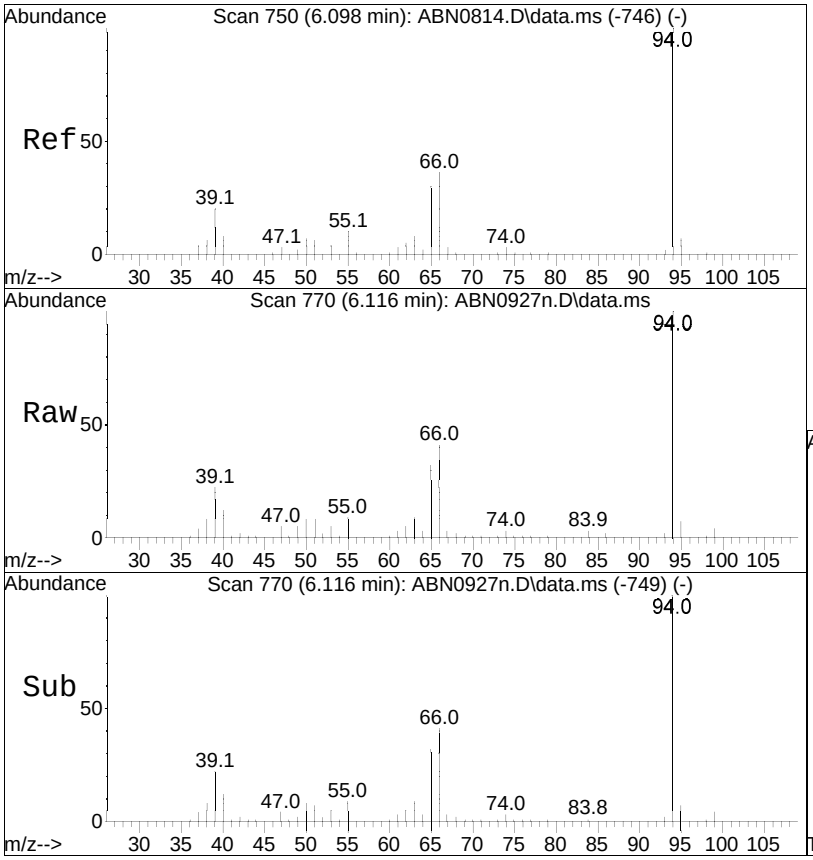


#6
2-Chlorophenol
Concen: 4.61 ug/ml
RT: 6.210 min Scan# 786
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:128 Resp: 22022

Ion	Ratio	Lower	Upper
128	100		
64	50.8	45.1	67.7
130	31.8	26.2	39.4

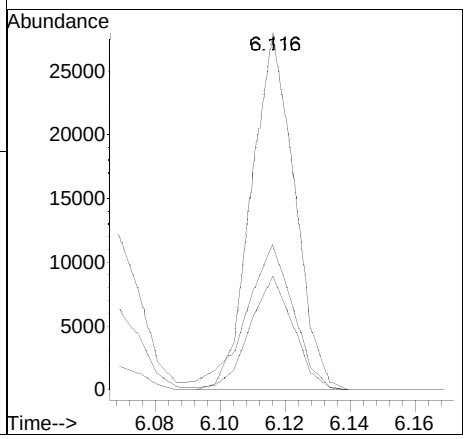


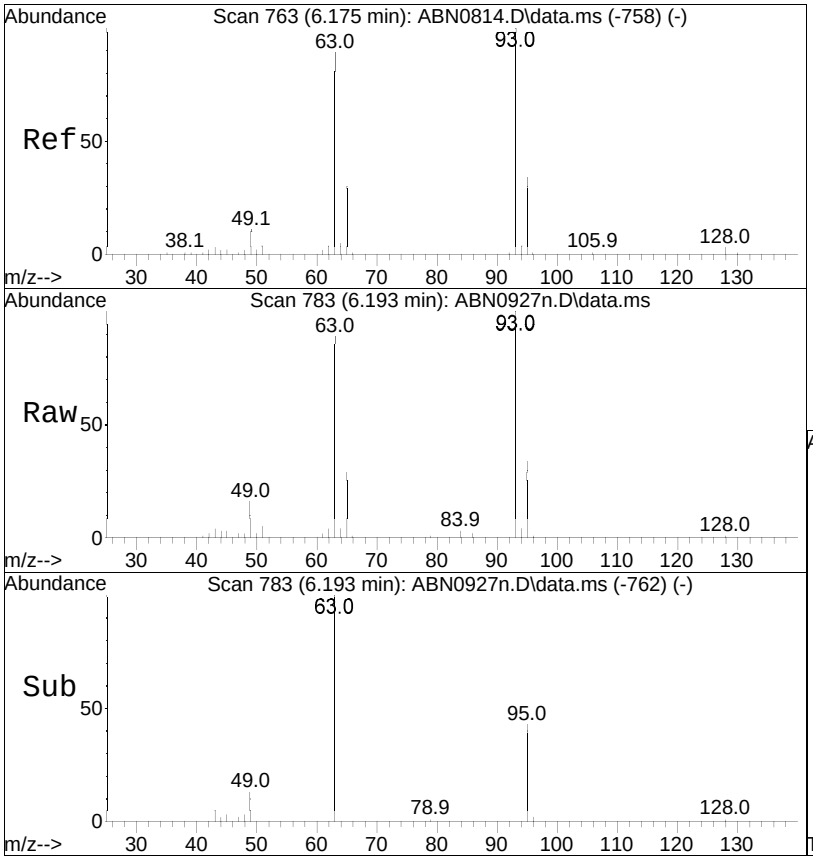


#8
Phenol
Concen: 4.44 ug/ml
RT: 6.116 min Scan# 770
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 94 Resp: 25692

Ion	Ratio	Lower	Upper
94	100		
65	32.3	26.0	39.0
66	45.7	33.8	50.8

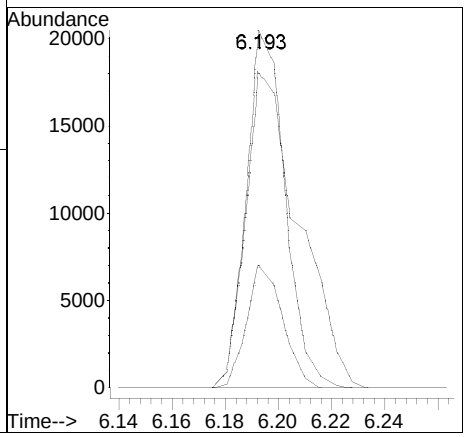


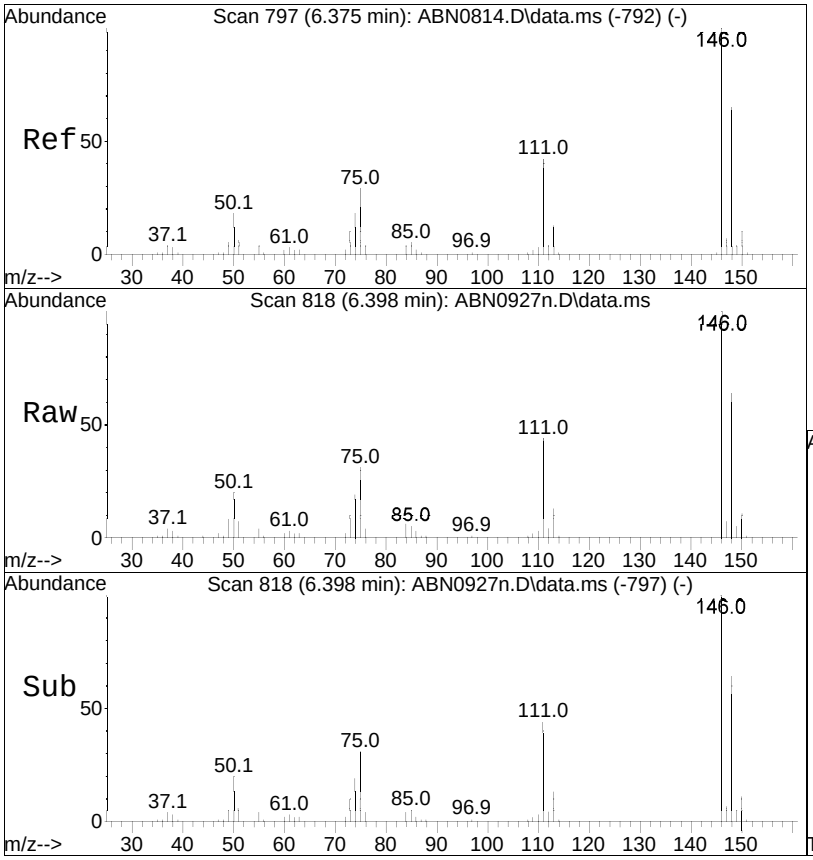


#9
Bis(2-chloroethyl)ether
Concen: 4.49 ug/ml
RT: 6.193 min Scan# 783
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 93 Resp: 20669

Ion	Ratio	Lower	Upper
93	100		
63	120.6	74.6	111.8#
95	32.0	25.9	38.9

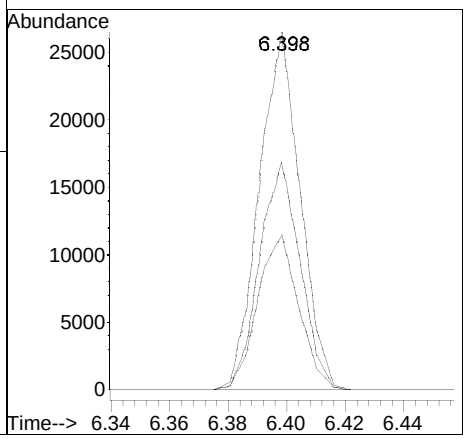


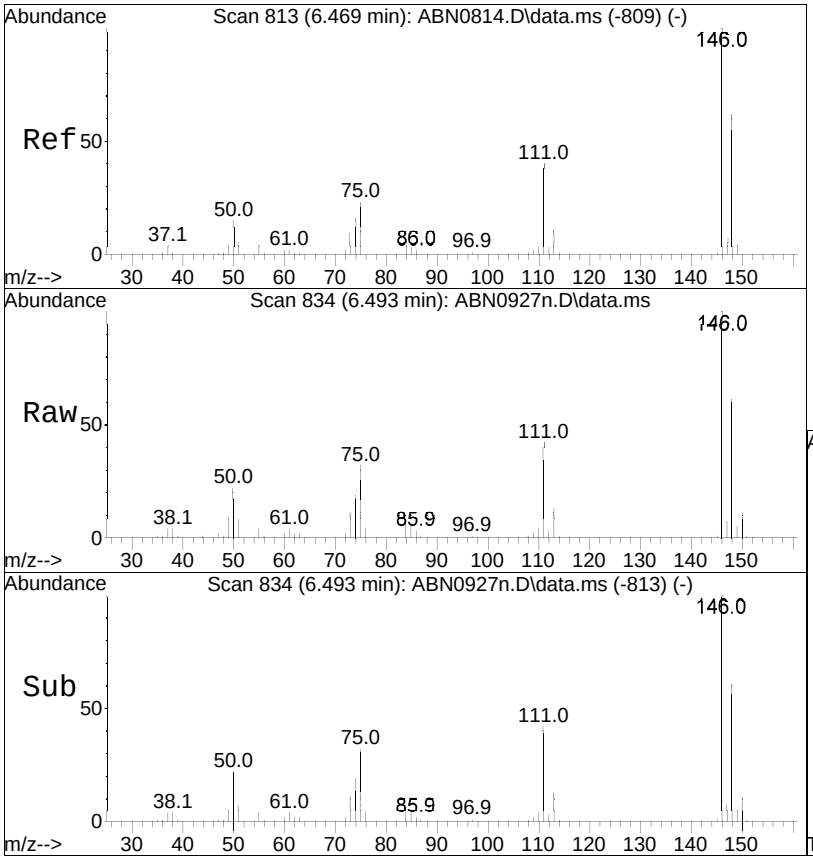


#10
1,3-Dichlorobenzene
Concen: 4.35 ug/ml
RT: 6.398 min Scan# 818
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:146 Resp: 25534

Ion	Ratio	Lower	Upper
146	100		
111	43.7	34.3	51.5
148	63.2	50.8	76.2

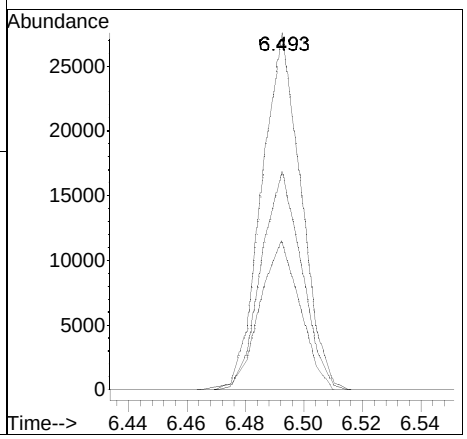


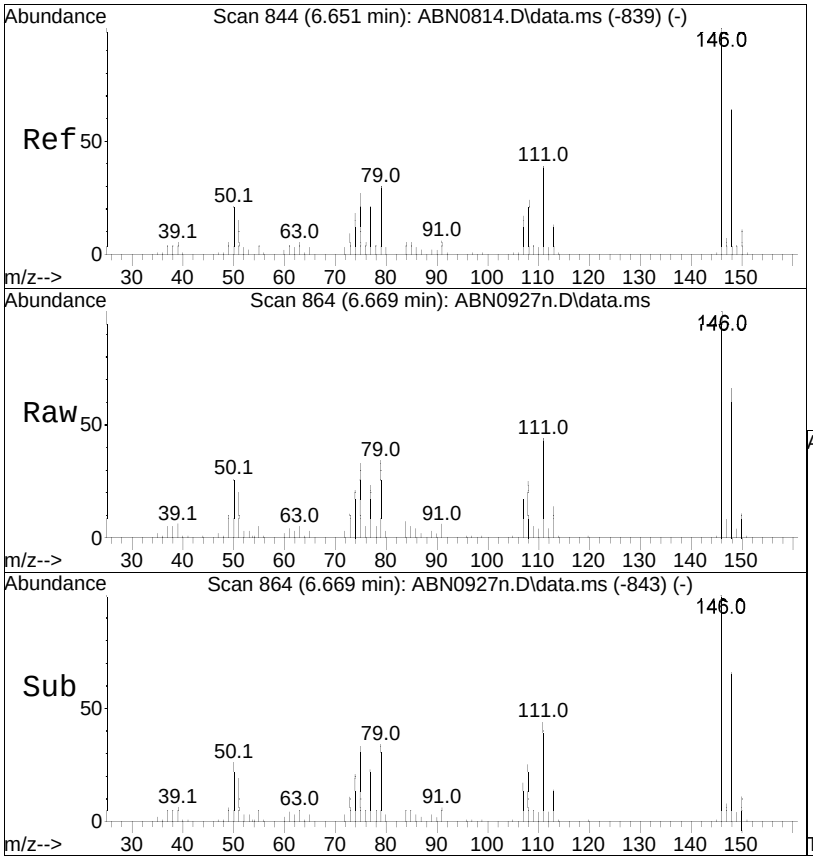


#11
1,4-Dichlorobenzene
Concen: 4.35 ug/ml
RT: 6.493 min Scan# 834
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:146 Resp: 25716

Ion	Ratio	Lower	Upper
146	100		
148	62.5	50.7	76.1
111	43.0	33.4	50.0

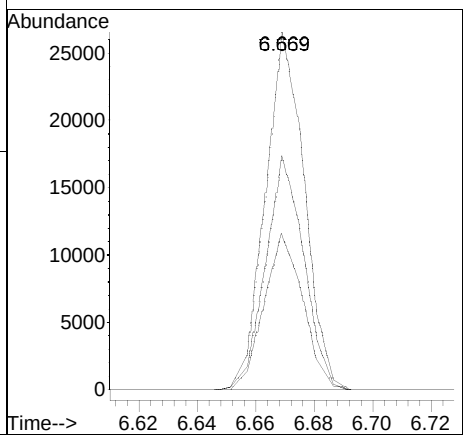


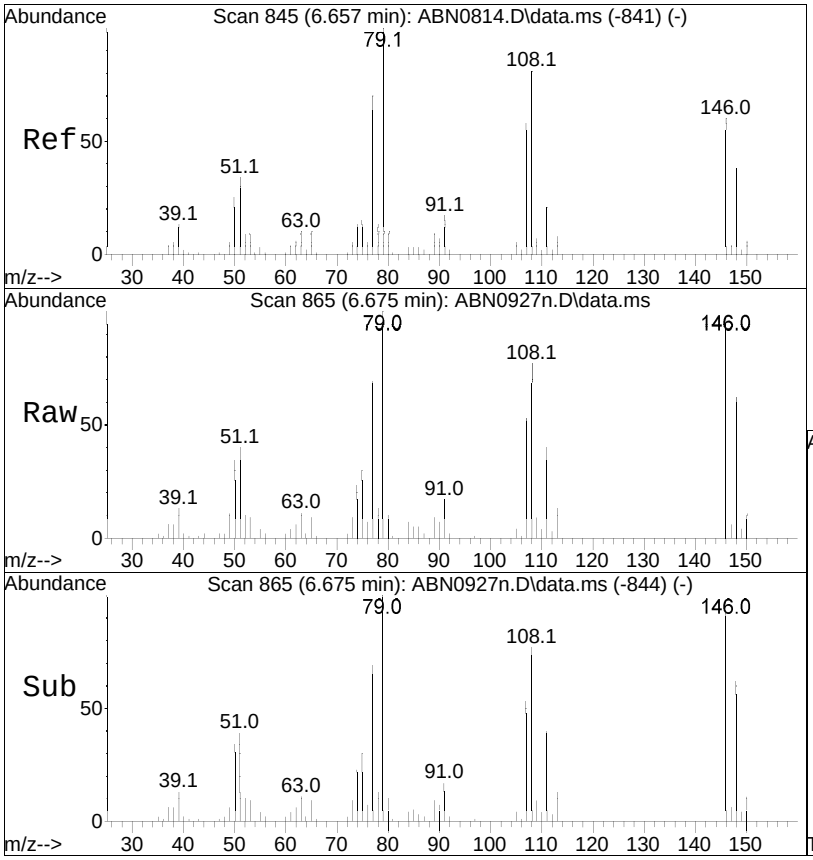


#12
1,2-Dichlorobenzene
Concen: 4.22 ug/ml
RT: 6.669 min Scan# 864
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:146 Resp: 24365

Ion	Ratio	Lower	Upper
146	100		
111	43.7	34.6	52.0
148	64.3	50.2	75.4

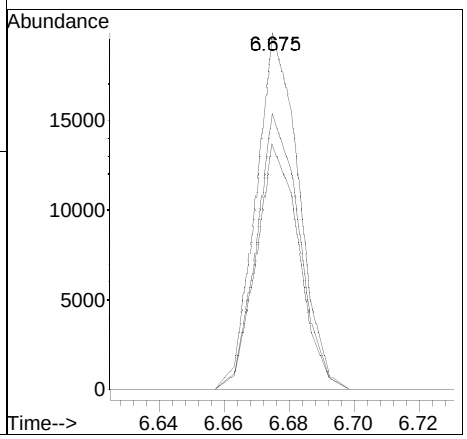


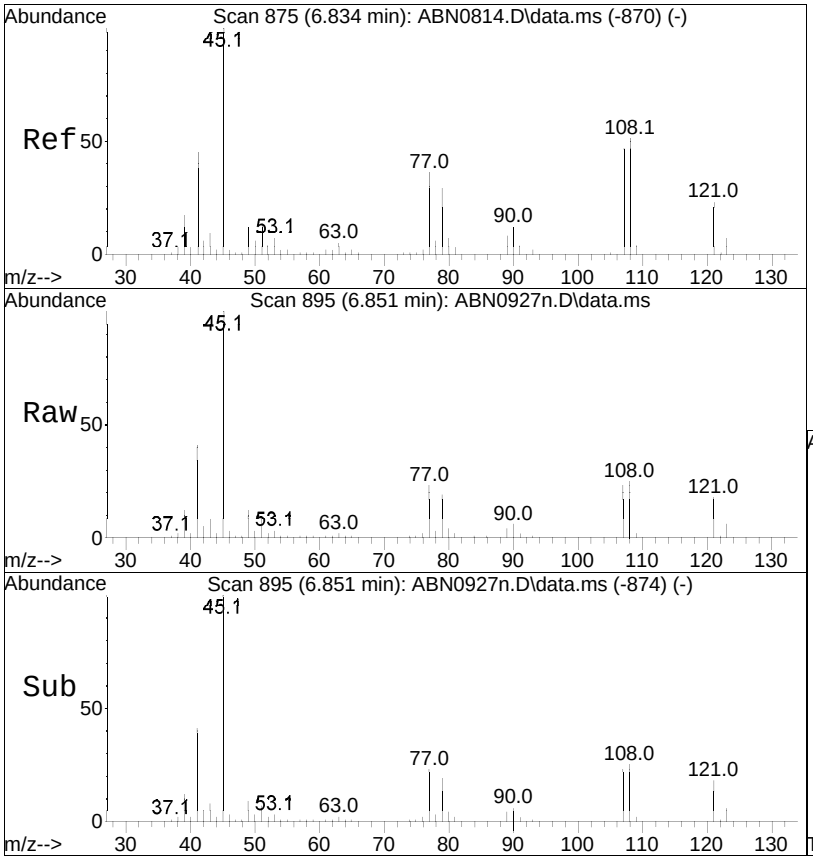


#13
Benzyl alcohol
Concen: 4.85 ug/ml
RT: 6.675 min Scan# 865
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 79 Resp: 18100

Ion	Ratio	Lower	Upper
79	100		
77	68.7	54.9	82.3
108	76.9	63.1	94.7

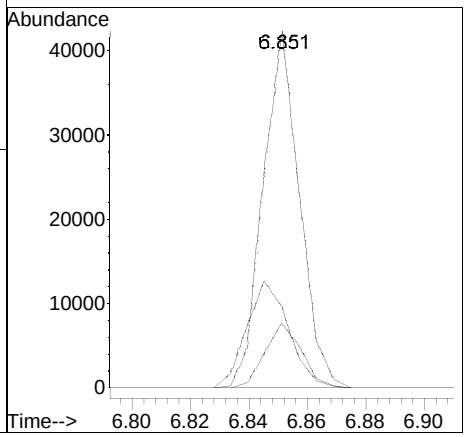


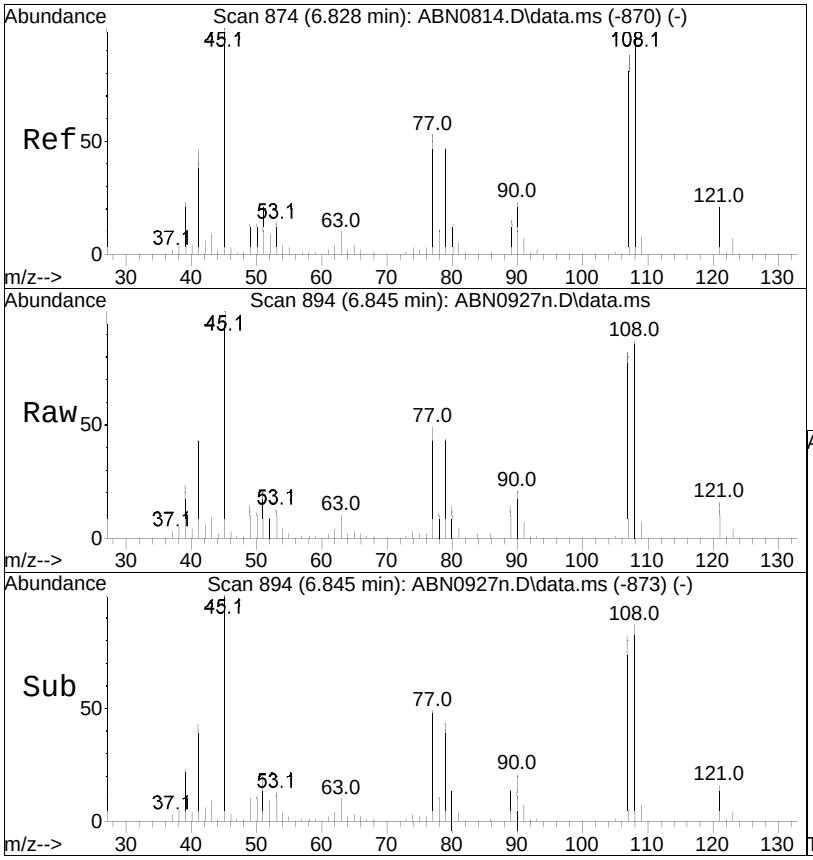


#14
Bis(2-chloroisopropyl)ether
Concen: 6.07 ug/ml
RT: 6.851 min Scan# 895
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 45 Resp: 36255

Ion	Ratio	Lower	Upper
45	100		
121	18.3	9.8	14.6#
77	34.8	6.1	9.1#

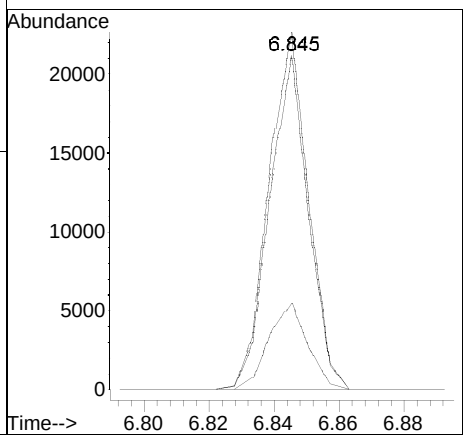


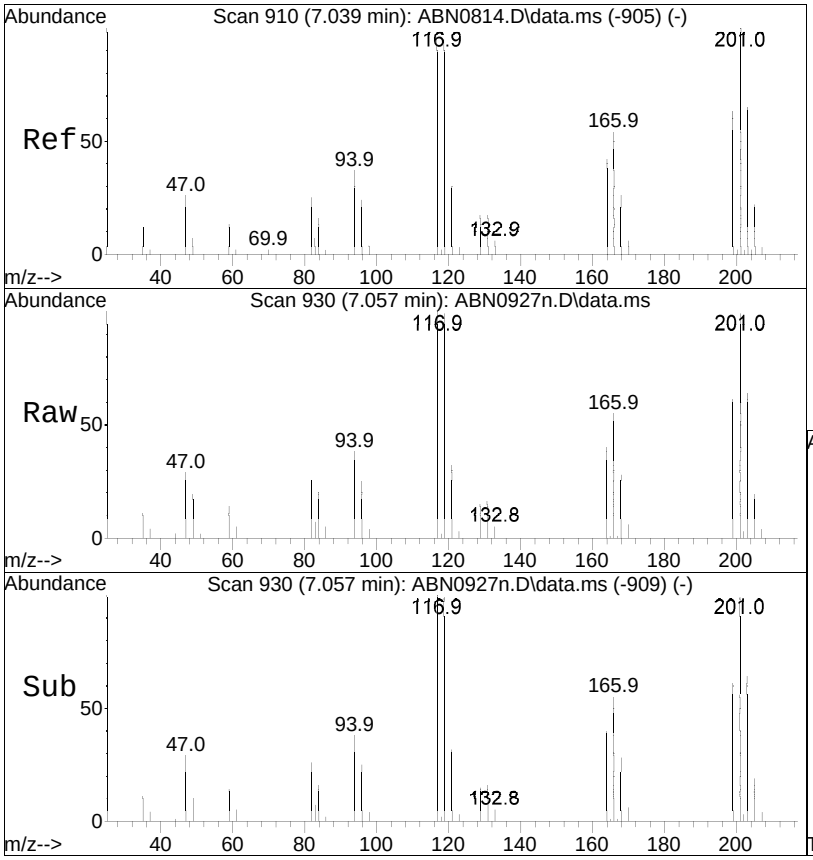


#15
2-Methylphenol
Concen: 4.58 ug/ml
RT: 6.845 min Scan# 894
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:108 Resp: 19078

Ion	Ratio	Lower	Upper
108	100		
107	91.3	70.7	106.1
90	23.8	18.7	28.1

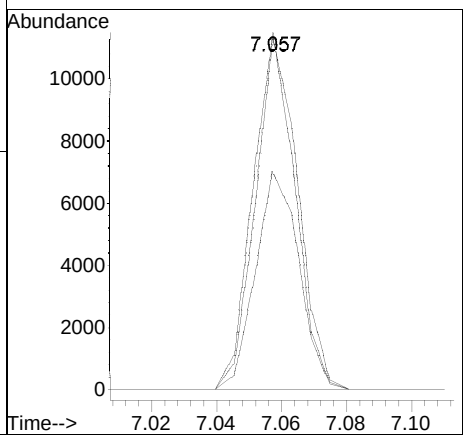


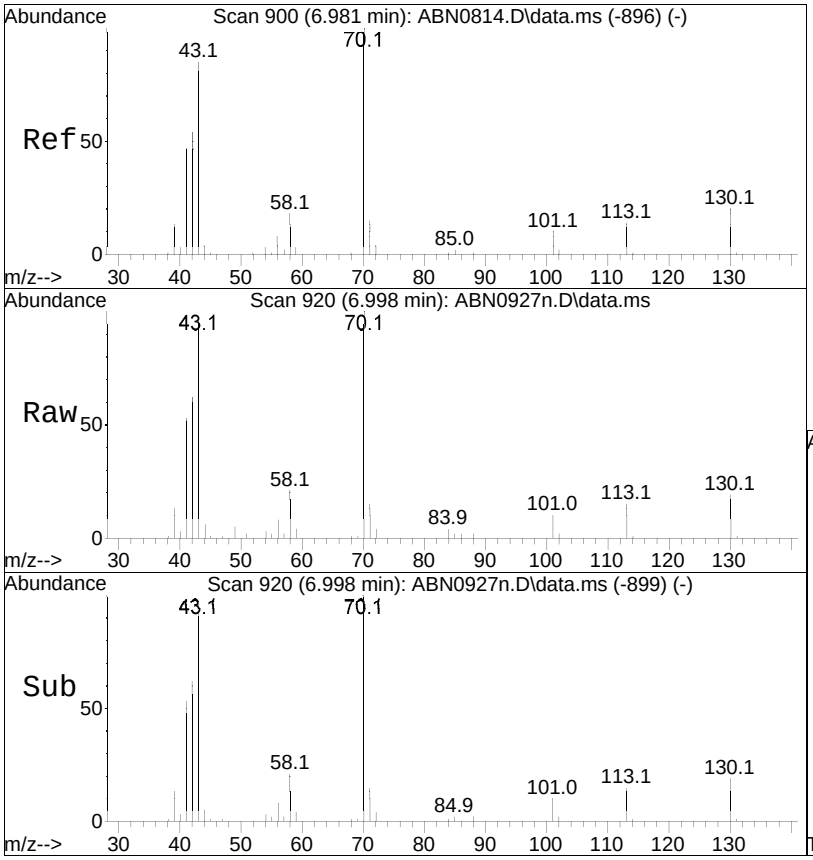


#16
Hexachloroethane
Concen: 4.89 ug/ml
RT: 7.057 min Scan# 930
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:117 Resp: 10165

Ion	Ratio	Lower	Upper
117	100		
201	100.4	58.6	87.8#
199	63.8	36.9	55.3#

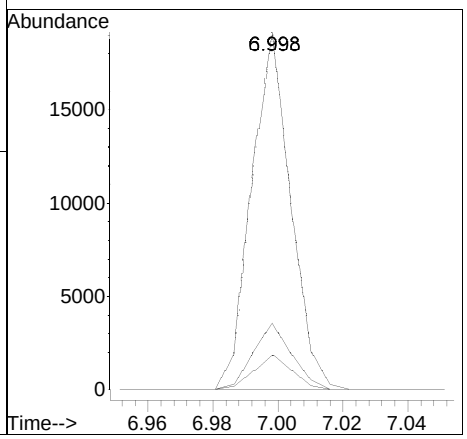


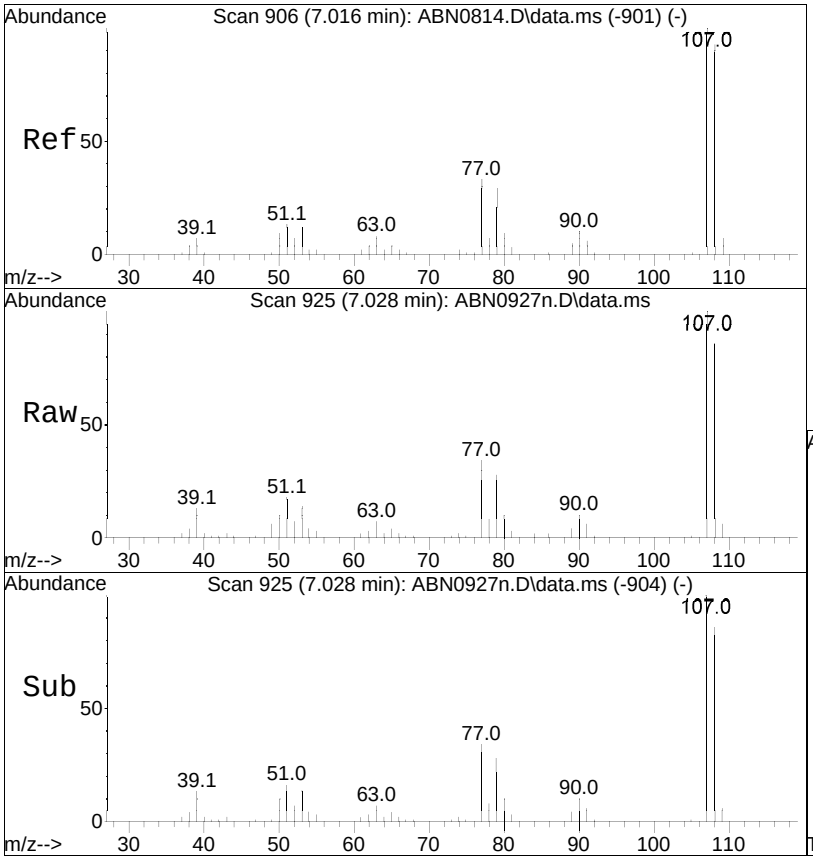


#17
n-Nitrosodi-n-propylamine
Concen: 4.99 ug/ml
RT: 6.998 min Scan# 920
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 70 Resp: 15895

Ion	Ratio	Lower	Upper
70	100		
130	18.4	18.2	27.4
101	9.5	7.8	11.8

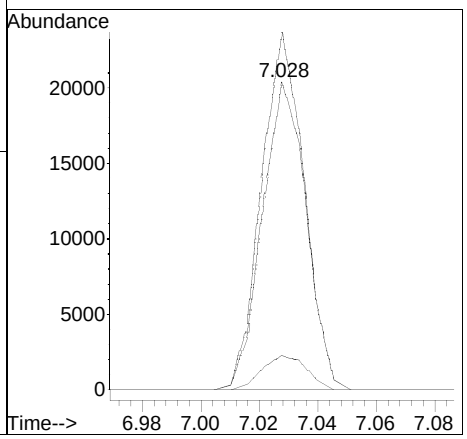


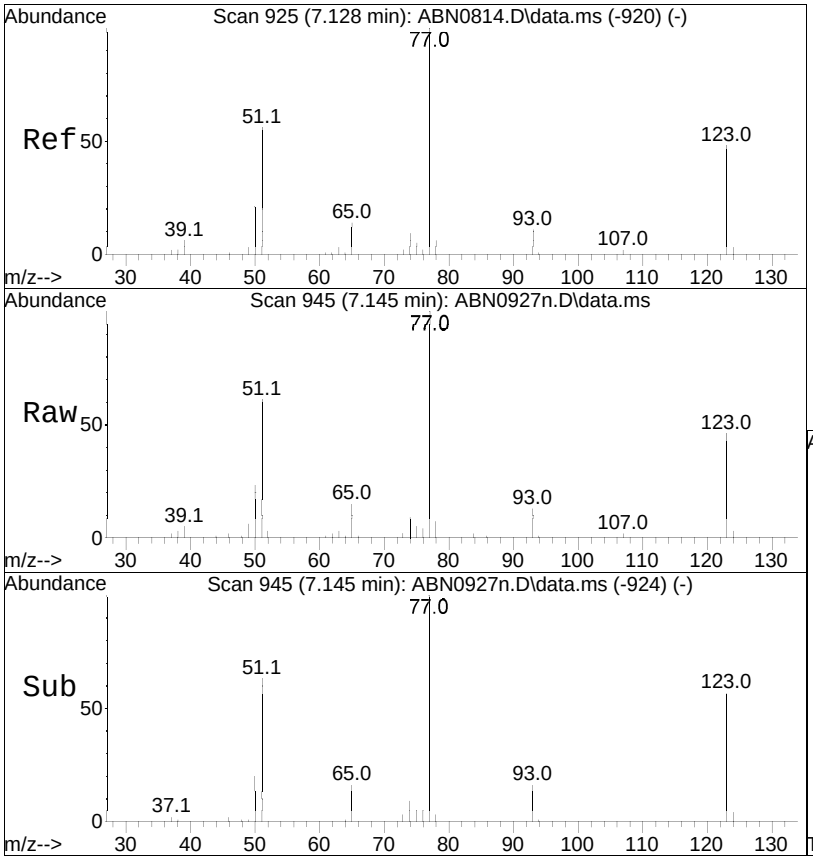


#18
3-Methylphenol/4-Methylphenol
Concen: 4.58 ug/ml
RT: 7.028 min Scan# 925
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:108 Resp: 21023

Ion	Ratio	Lower	Upper
108	100		
107	113.3	88.6	132.8
90	11.4	8.8	13.2

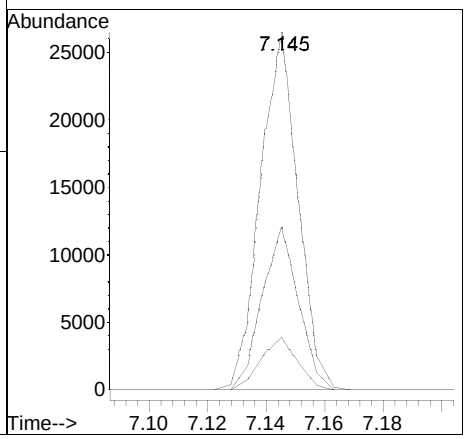


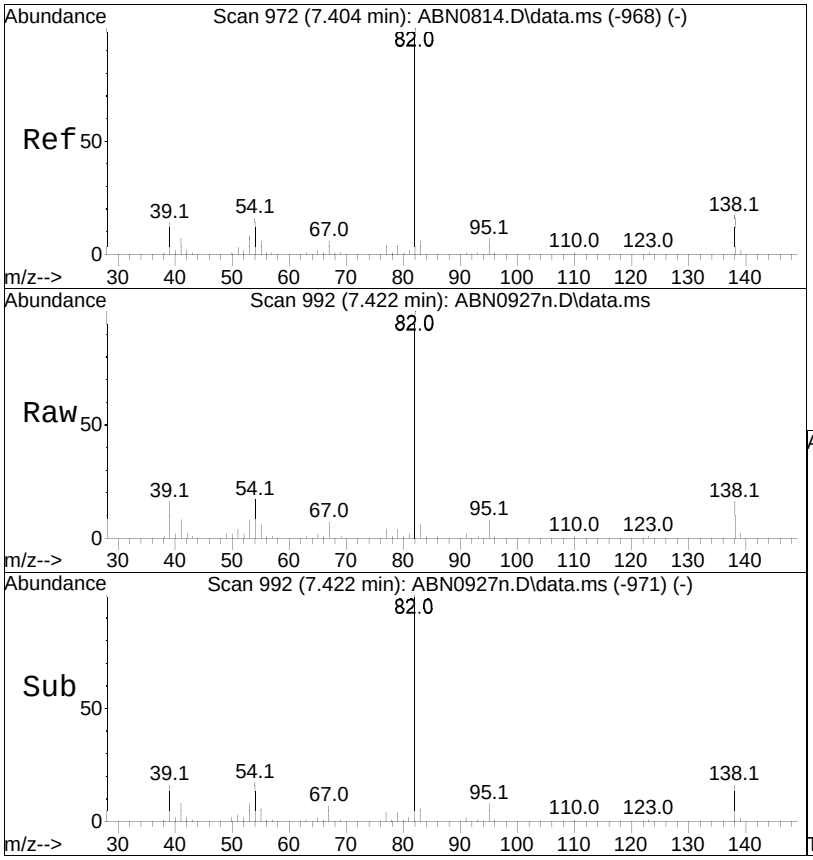


#20
Nitrobenzene
Concen: 4.84 ug/ml
RT: 7.145 min Scan# 945
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 77 Resp: 23442

Ion	Ratio	Lower	Upper
77	100		
123	44.2	36.3	54.5
65	14.4	11.6	17.4

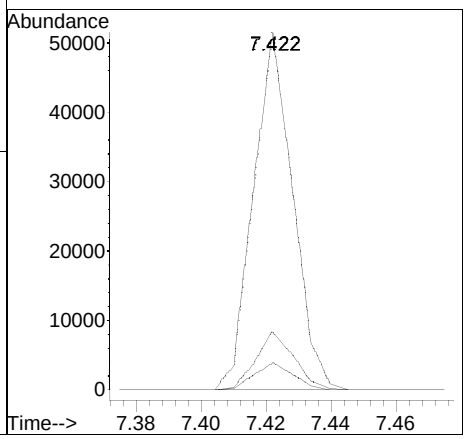


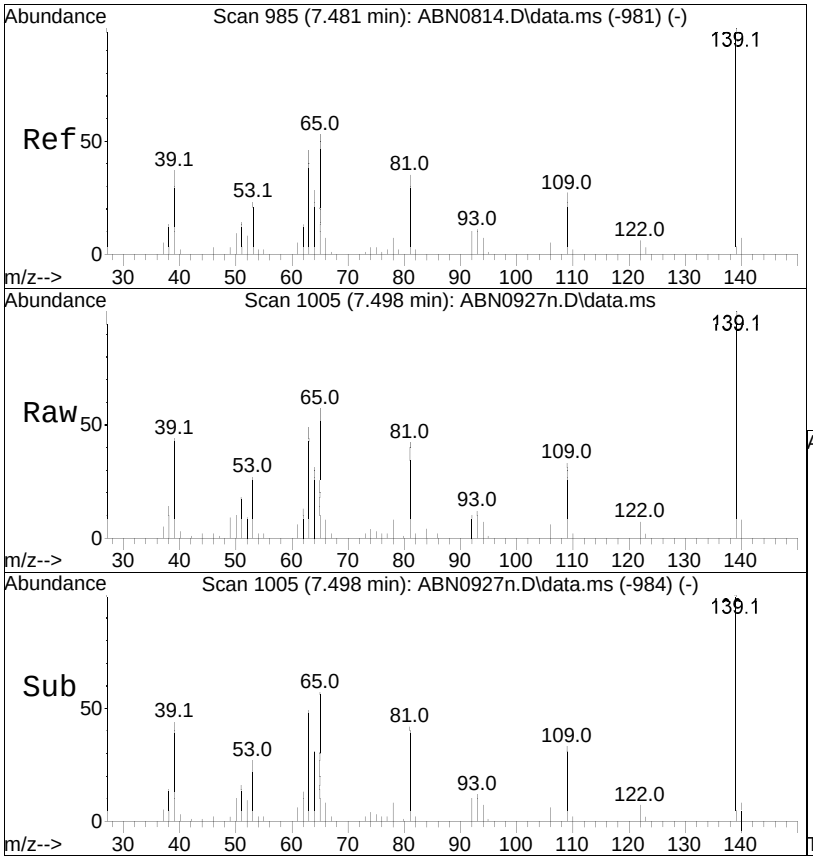


#21
Isophorone
Concen: 4.94 ug/ml
RT: 7.422 min Scan# 992
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 82 Resp: 42775

Ion	Ratio	Lower	Upper
82	100		
138	15.9	14.7	22.1
95	7.6	5.2	7.8

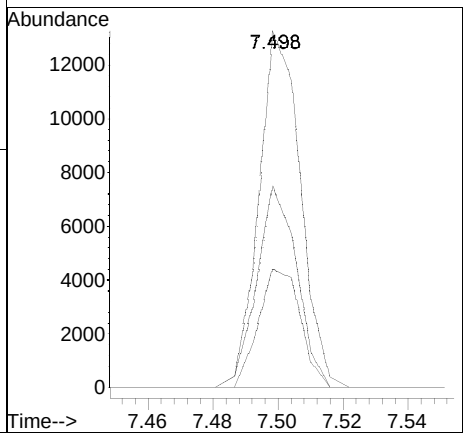


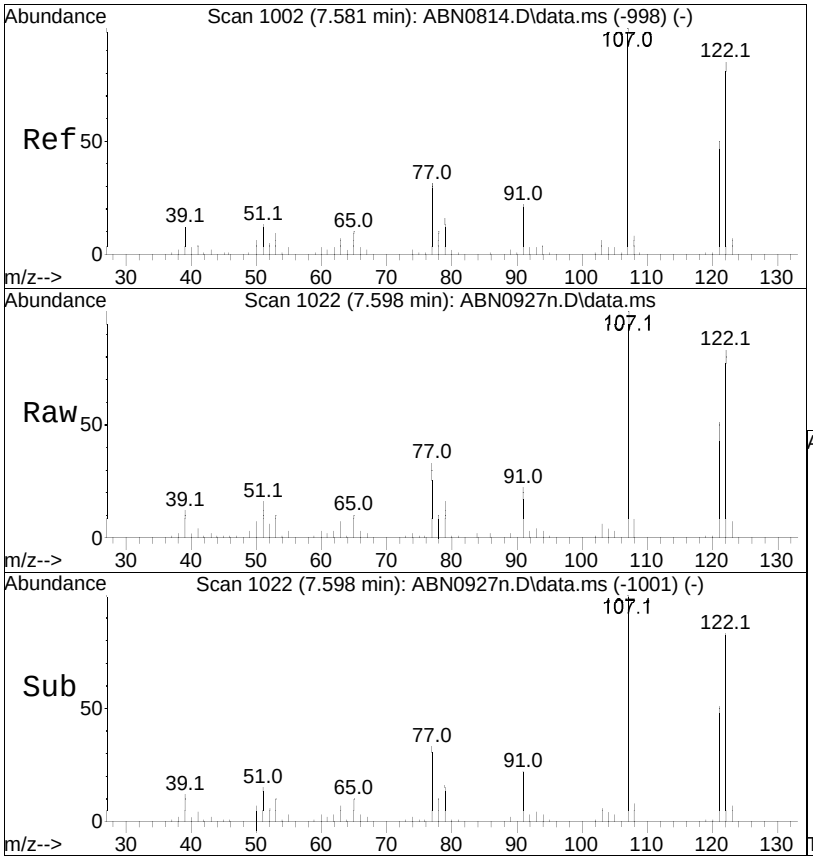


#22
2-Nitrophenol
Concen: 4.74 ug/ml
RT: 7.498 min Scan# 1005
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:139 Resp: 11666

Ion	Ratio	Lower	Upper
139	100		
109	33.9	19.4	29.0#
65	54.6	46.1	69.1

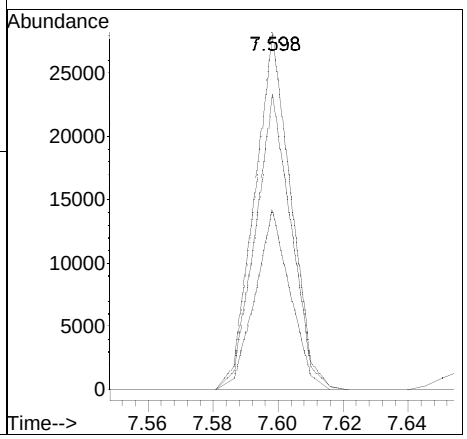


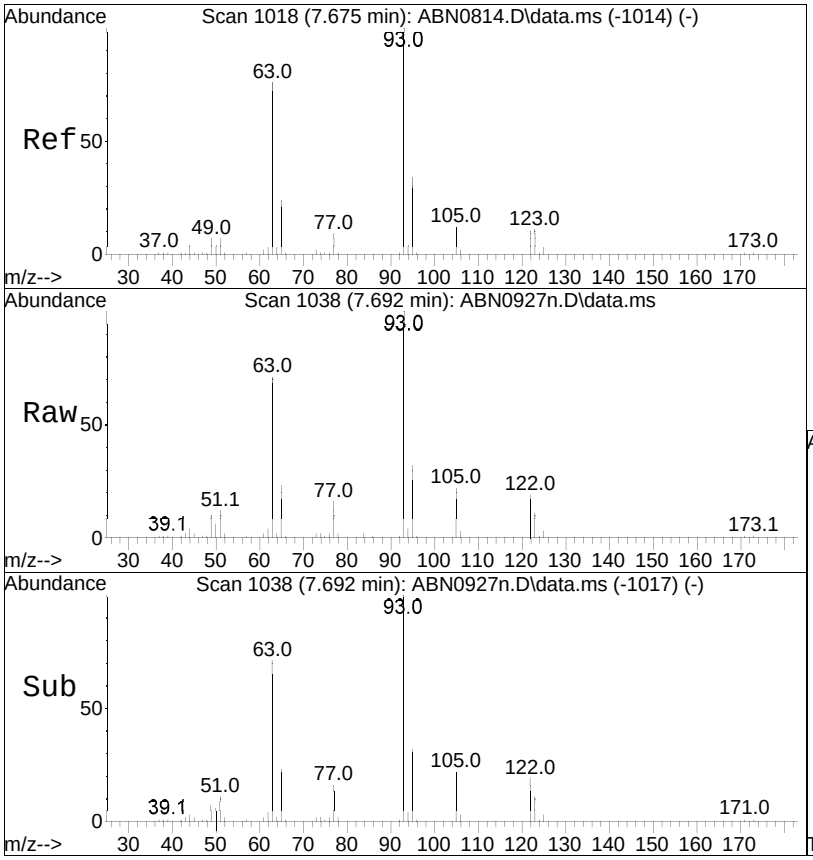


#23
2,4-Dimethylphenol
Concen: 5.43 ug/ml
RT: 7.598 min Scan# 1022
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:107 Resp: 21675

Ion	Ratio	Lower	Upper
107	100		
121	48.9	40.0	60.0
122	82.2	70.2	105.4

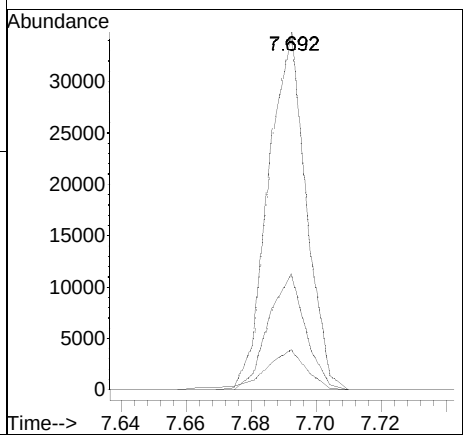


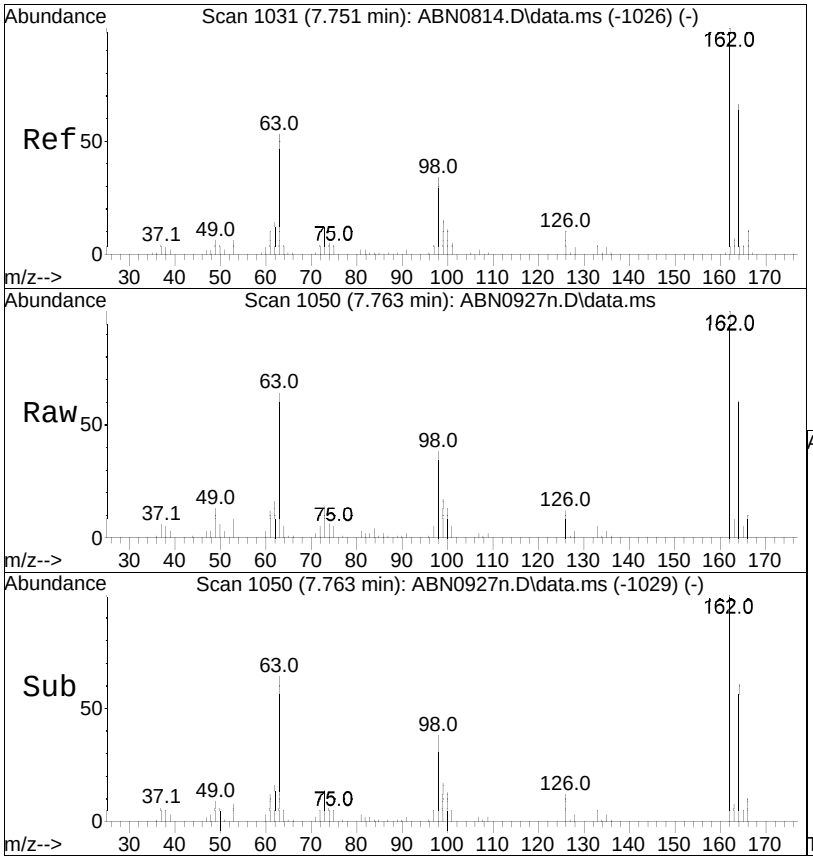


#24
Bis(2-chloroethoxy)methane
Concen: 4.75 ug/ml
RT: 7.692 min Scan# 1038
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 93 Resp: 27824

Ion	Ratio	Lower	Upper
93	100		
95	31.9	25.8	38.8
123	12.6	10.1	15.1

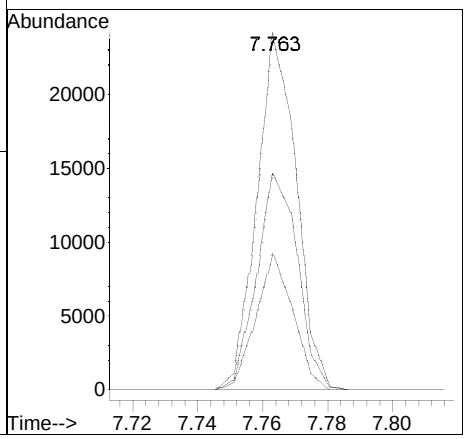


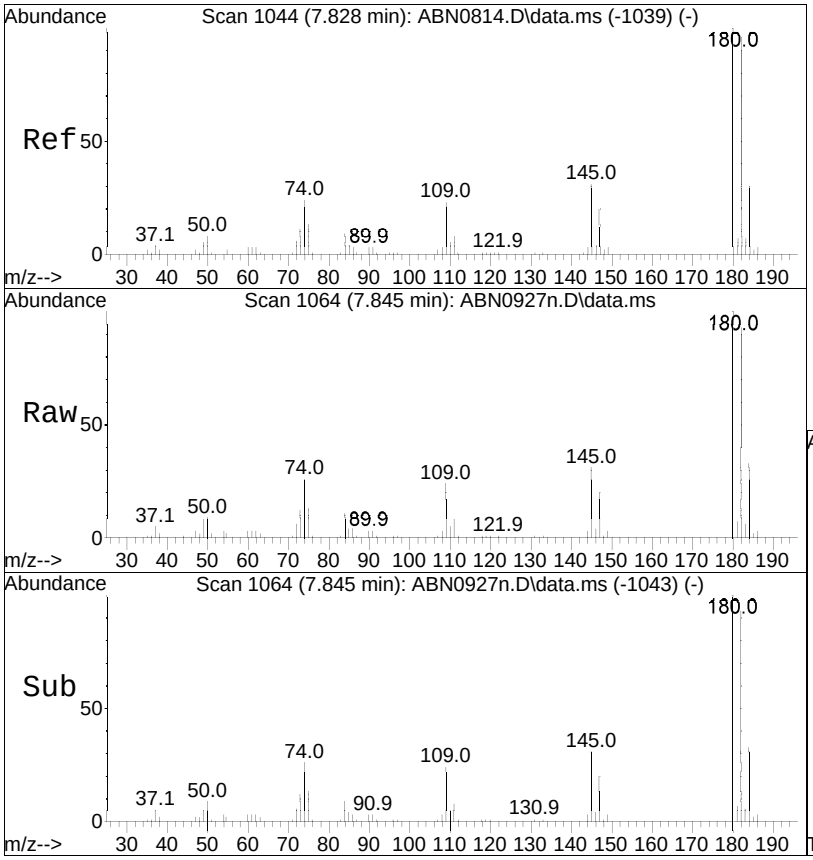


#25
2,4-Dichlorophenol
Concen: 4.62 ug/ml
RT: 7.763 min Scan# 1050
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:162 Resp: 20168

Ion	Ratio	Lower	Upper
162	100		
164	63.0	51.0	76.4
98	36.2	32.2	48.2

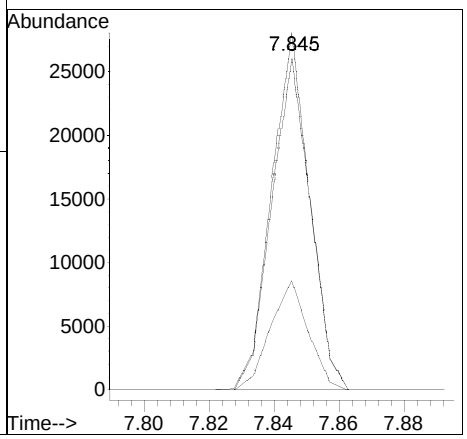


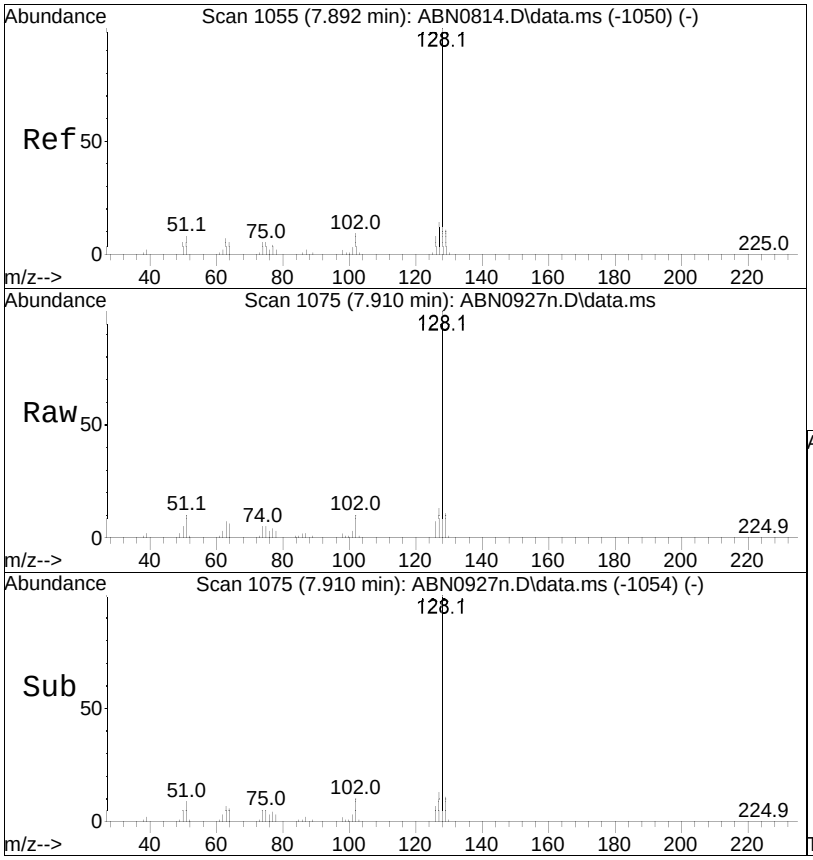


#26
1,2,4-Trichlorobenzene
Concen: 4.37 ug/ml
RT: 7.845 min Scan# 1064
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:180 Resp: 22708

Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.0	114.0
145	30.6	25.7	38.5

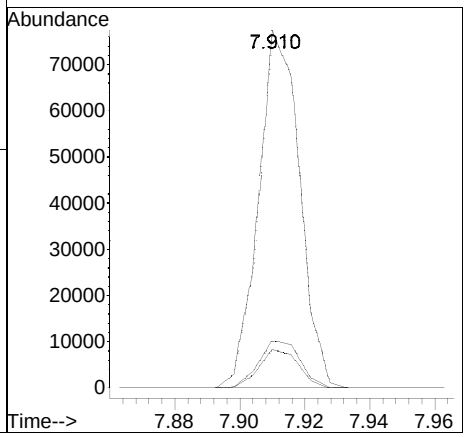


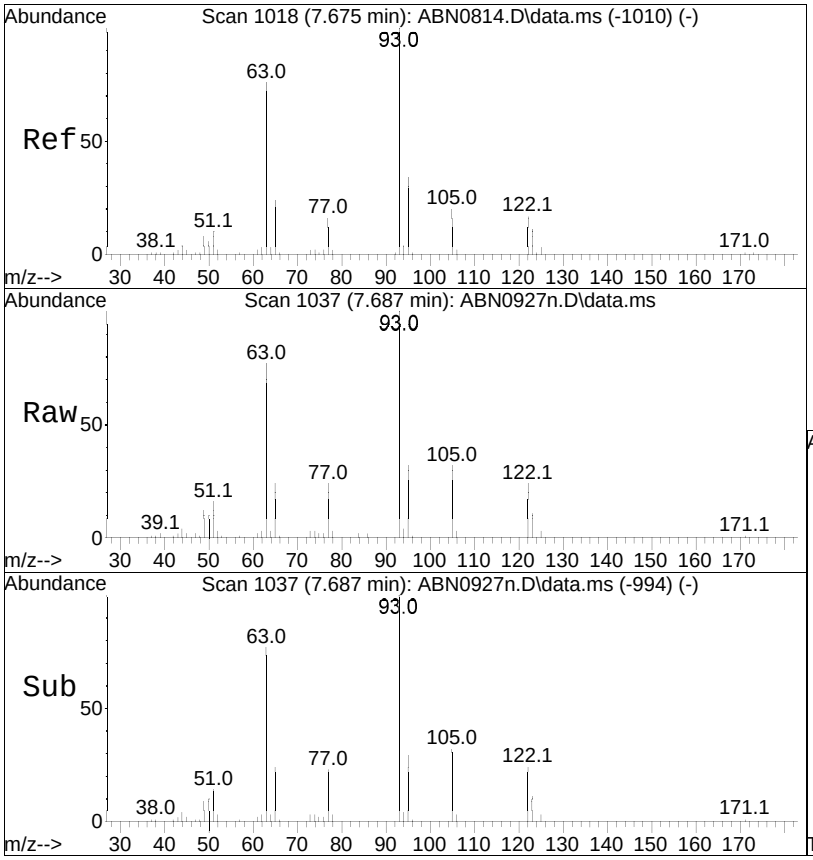


#36
Naphthalene
Concen: 4.33 ug/ml
RT: 7.910 min Scan# 1075
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:128 Resp: 67320

Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.7	13.1
127	13.5	10.3	15.5

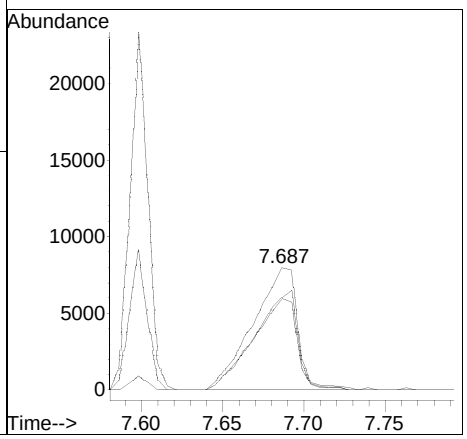


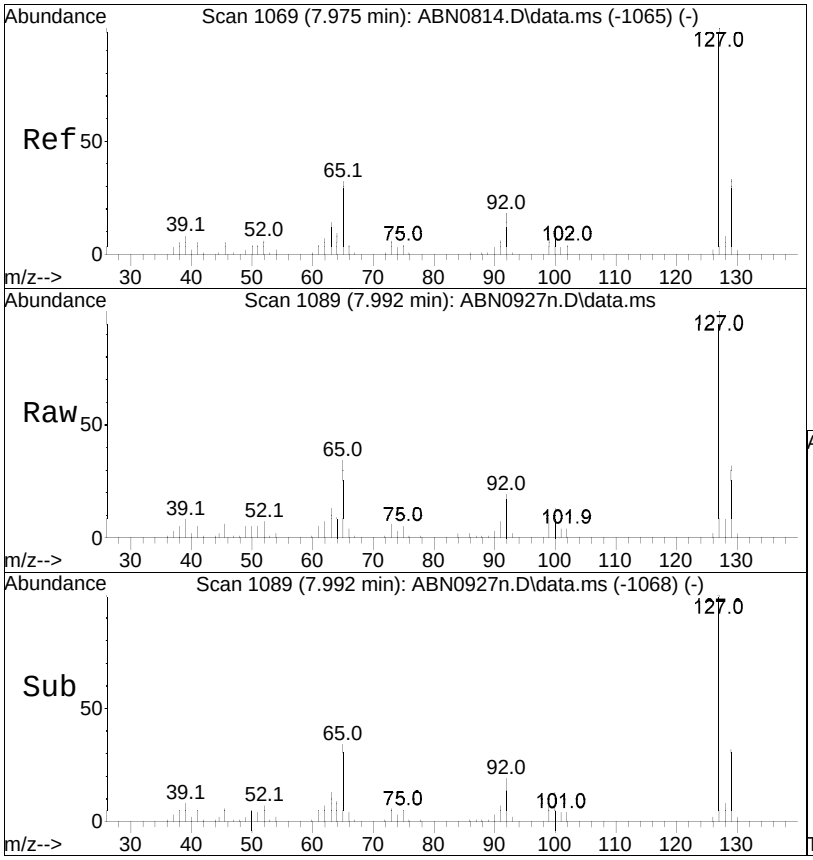


#37
Benzoic Acid
Concen: 5.56 ug/ml
RT: 7.687 min Scan# 1037
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:105 Resp: 15261

Ion	Ratio	Lower	Upper
105	100		
122	77.9	59.9	89.9
77	74.5	60.1	90.1

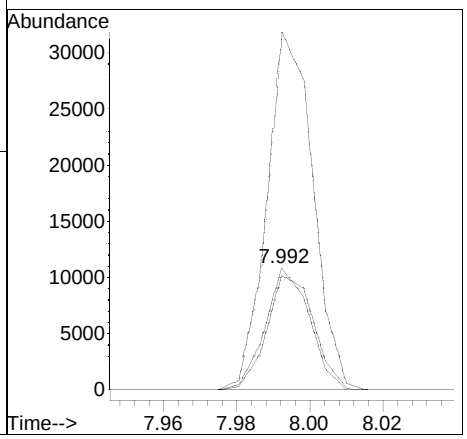


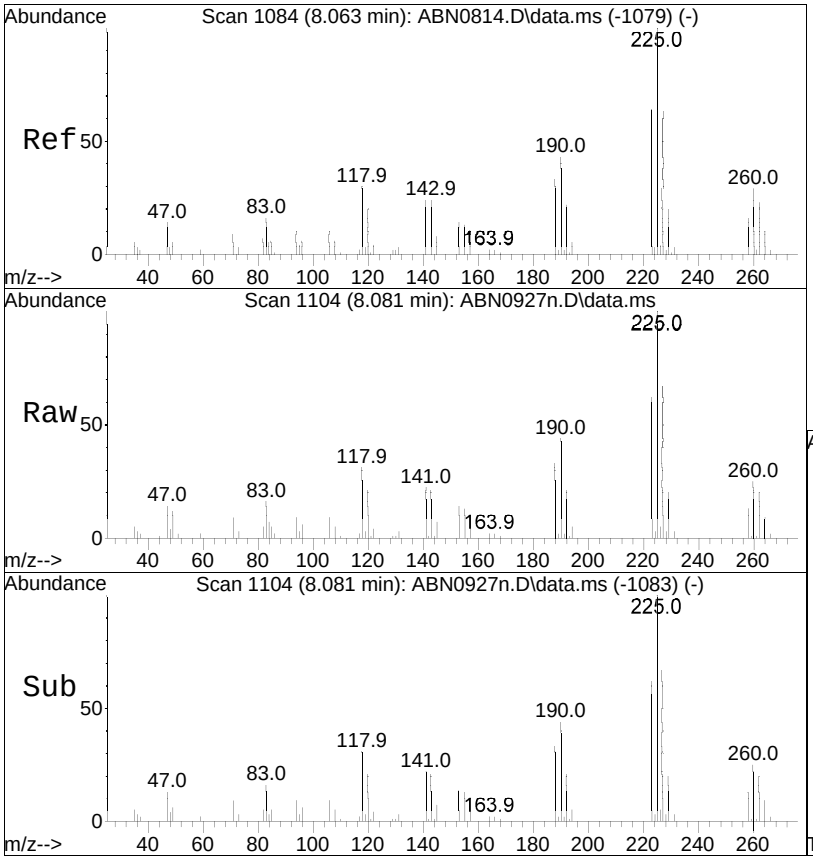


#38
4-Chloroaniline
Concen: 5.20 ug/ml
RT: 7.992 min Scan# 1089
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 65 Resp: 9019

Ion	Ratio	Lower	Upper
65	100		
127	305.2	237.6	356.4
129	100.0	76.3	114.5

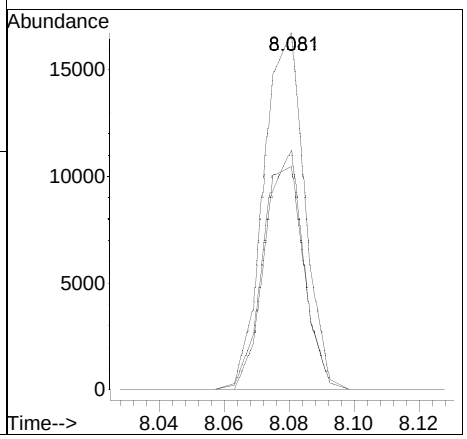


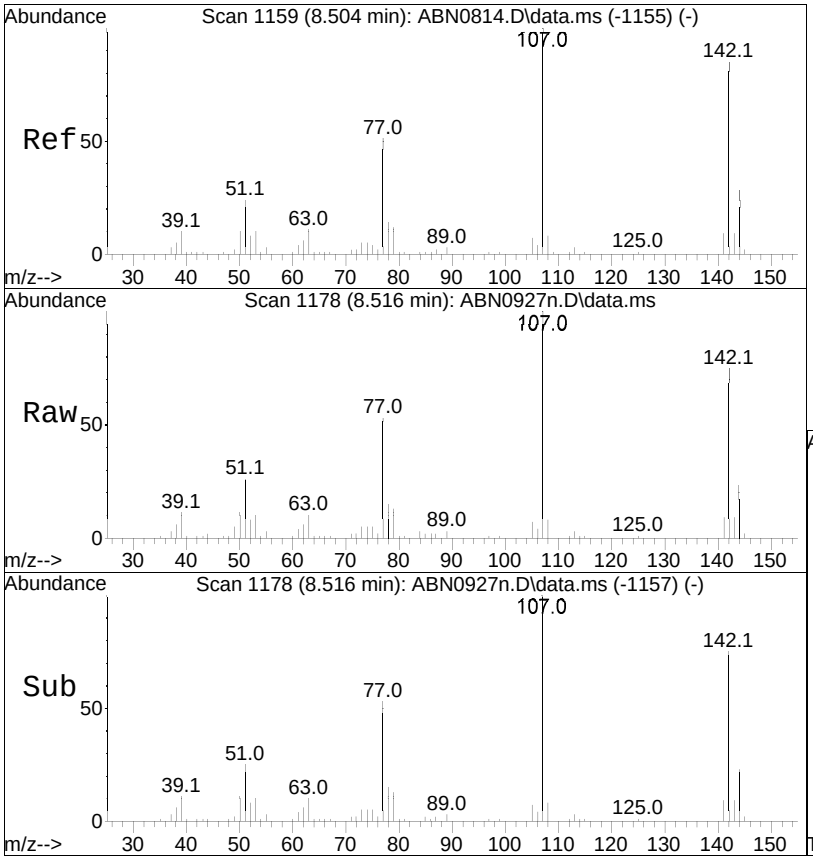


#39
Hexachlorobutadiene
Concen: 4.77 ug/ml
RT: 8.081 min Scan# 1104
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:225 Resp: 14664

Ion	Ratio	Lower	Upper
225	100		
223	64.4	50.3	75.5
227	63.1	52.2	78.2

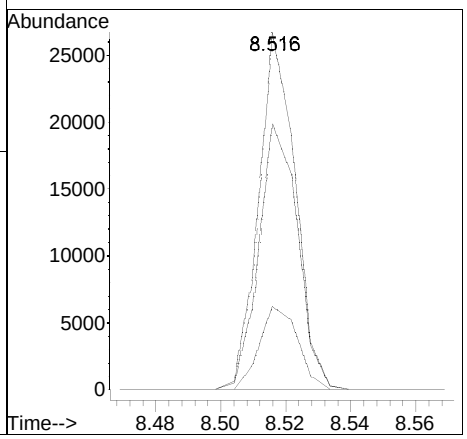


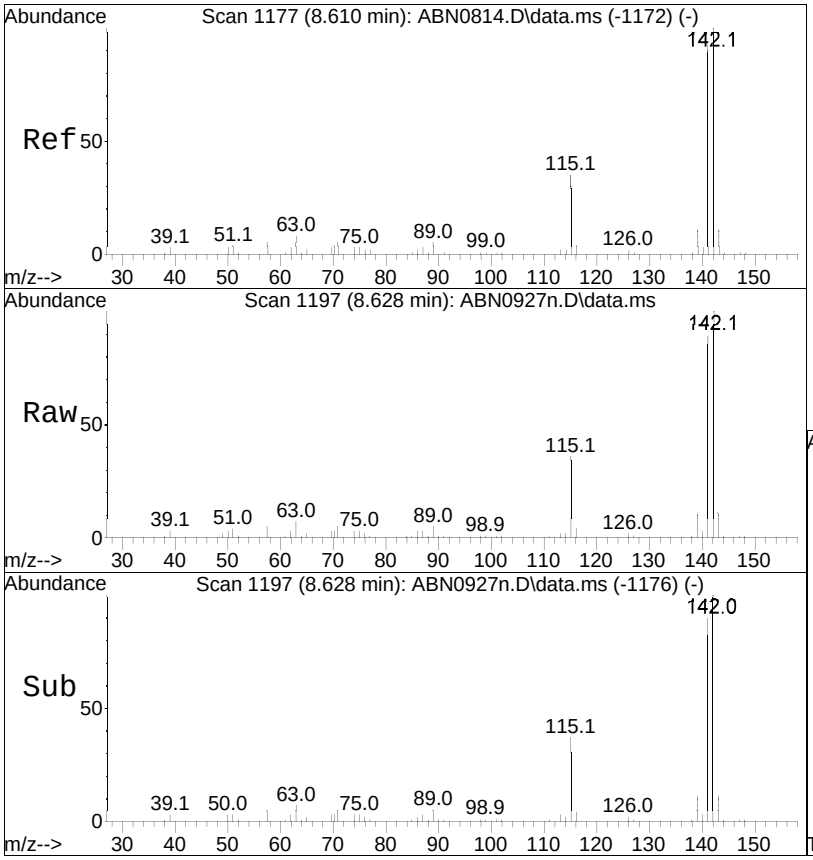


#40
p-Chloro-m-cresol
Concen: 5.32 ug/ml
RT: 8.516 min Scan# 1178
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:107 Resp: 20683

Ion	Ratio	Lower	Upper
107	100		
144	24.5	20.9	31.3
142	79.0	66.1	99.1

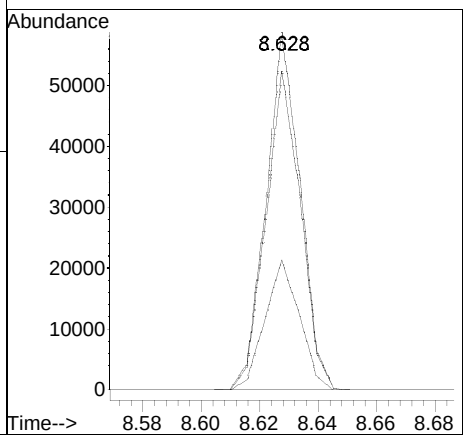


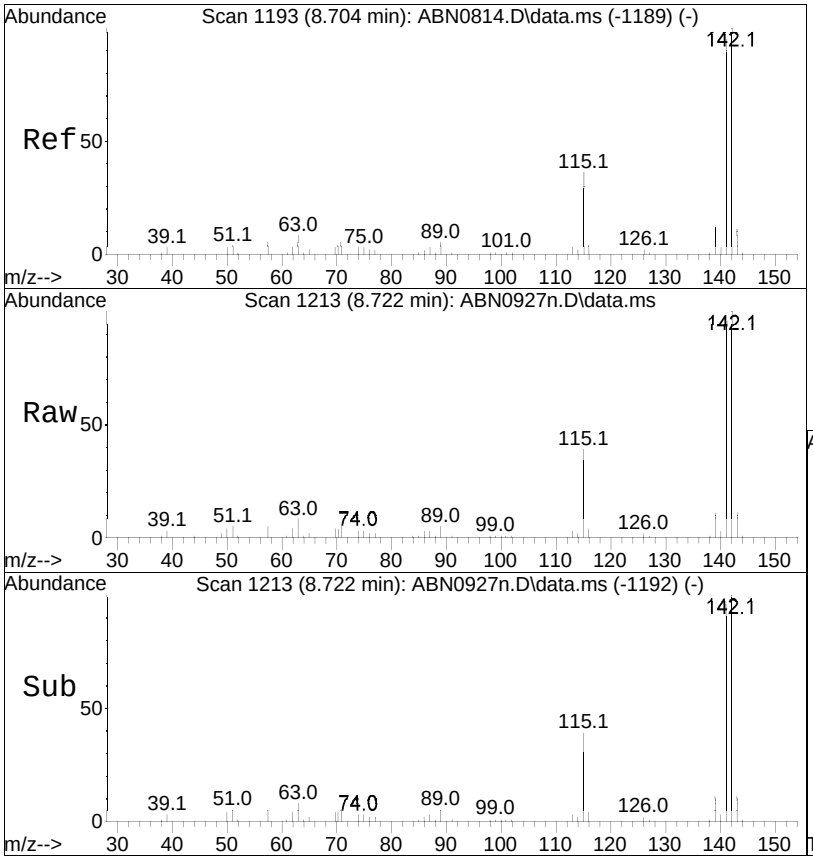


#41
2-Methylnaphthalene
Concen: 4.64 ug/ml
RT: 8.628 min Scan# 1197
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:142 Resp: 46978

Ion	Ratio	Lower	Upper
142	100		
141	90.6	69.6	104.4
115	36.8	26.6	40.0

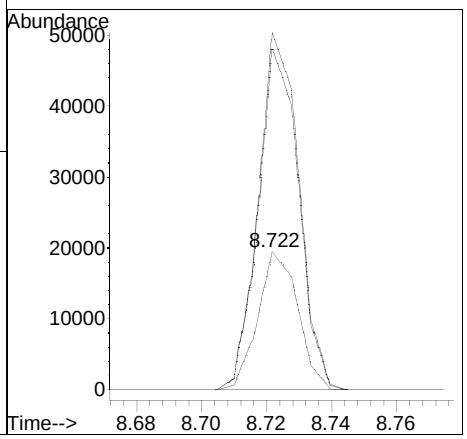


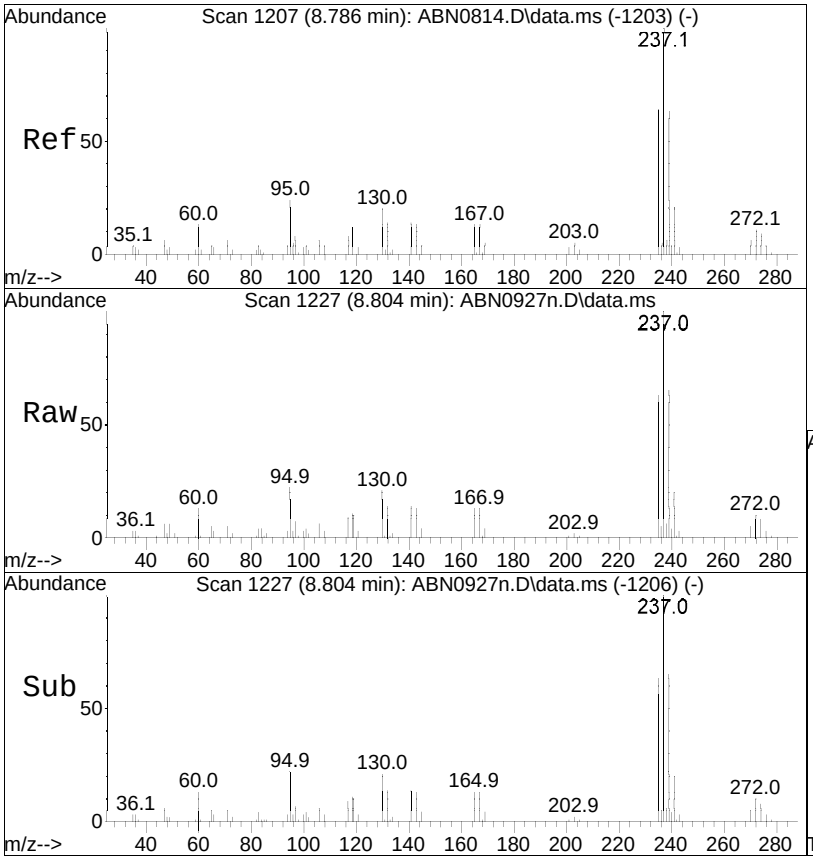


#42
1-Methylnaphthalene
Concen: 5.07 ug/ml
RT: 8.722 min Scan# 1213
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:115 Resp: 16583

Ion	Ratio	Lower	Upper
115	100		
141	247.7	207.8	311.6
142	259.9	226.8	340.2

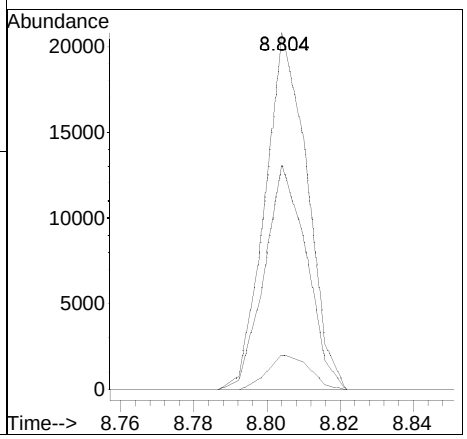


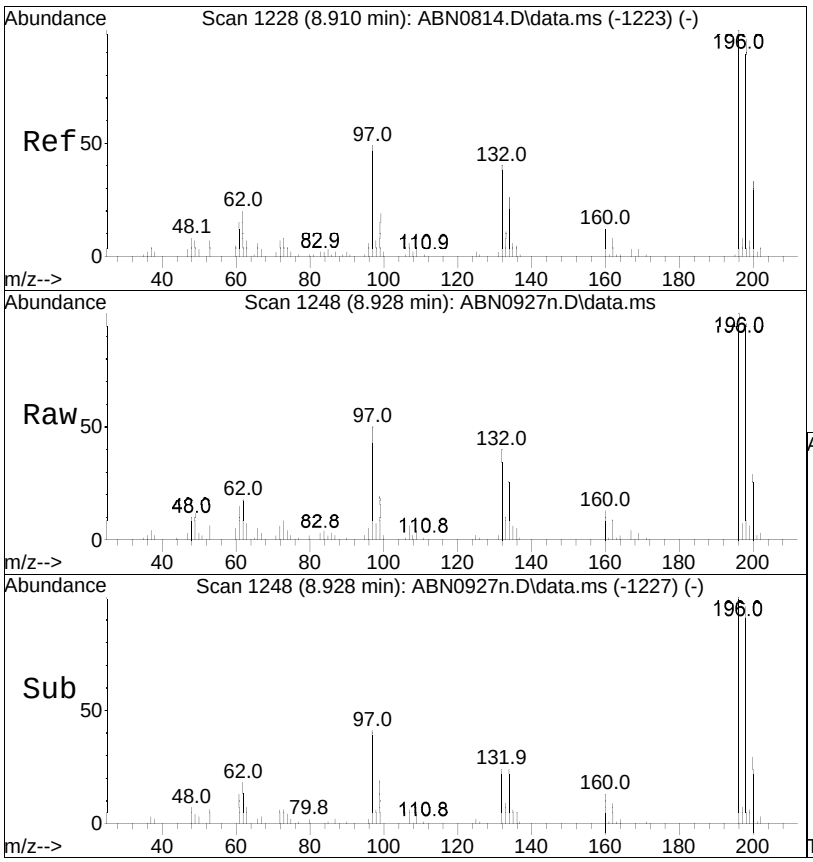


#43
Hexachlorocyclopentadiene
Concen: 5.70 ug/ml
RT: 8.804 min Scan# 1227
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:237 Resp: 16577

Ion	Ratio	Lower	Upper
237	100		
235	63.4	49.7	74.5
272	9.9	9.8	14.6

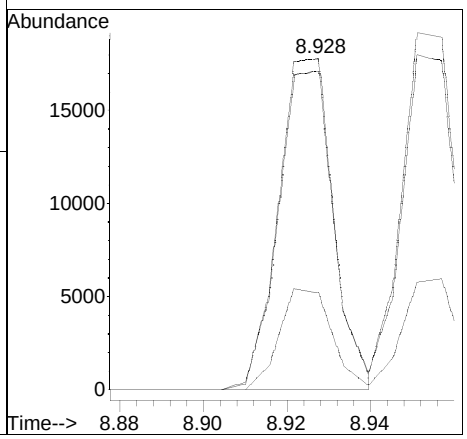


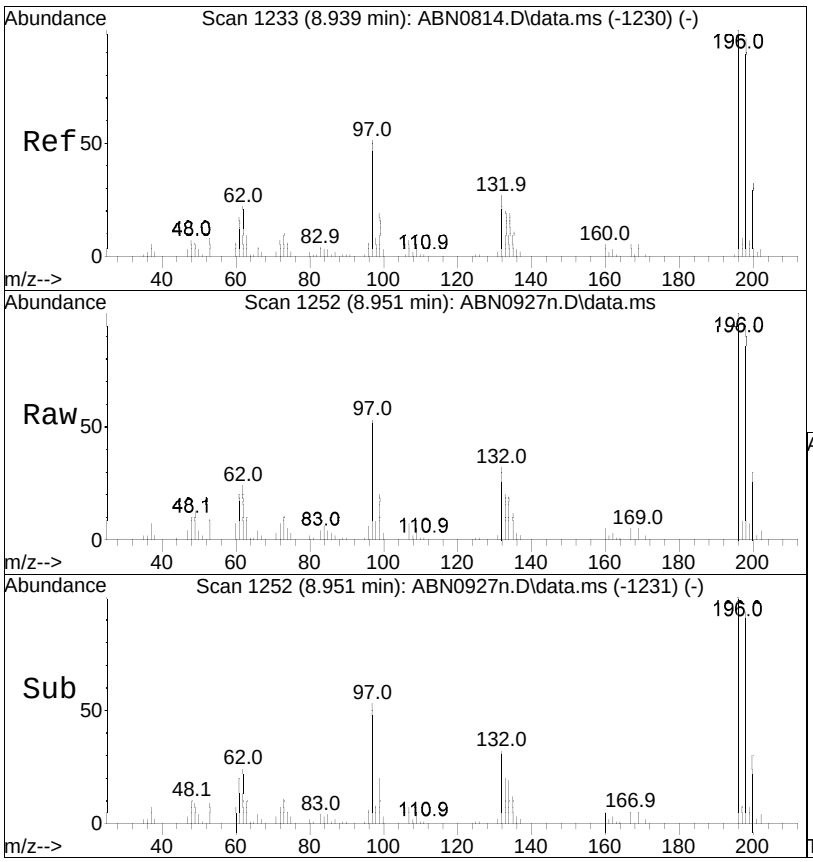


#44
2,4,6-Trichlorophenol
Concen: 5.04 ug/ml
RT: 8.928 min Scan# 1248
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:196 Resp: 16190

Ion	Ratio	Lower	Upper
196	100		
198	96.9	77.5	116.3
200	29.4	23.8	35.6

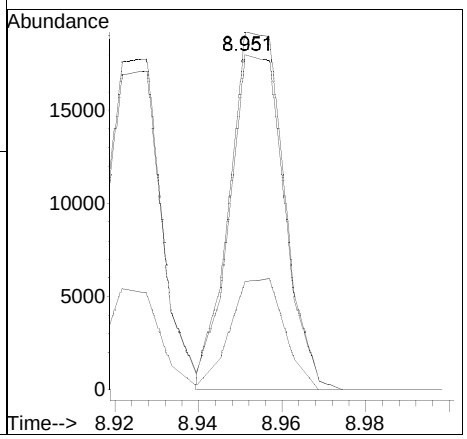


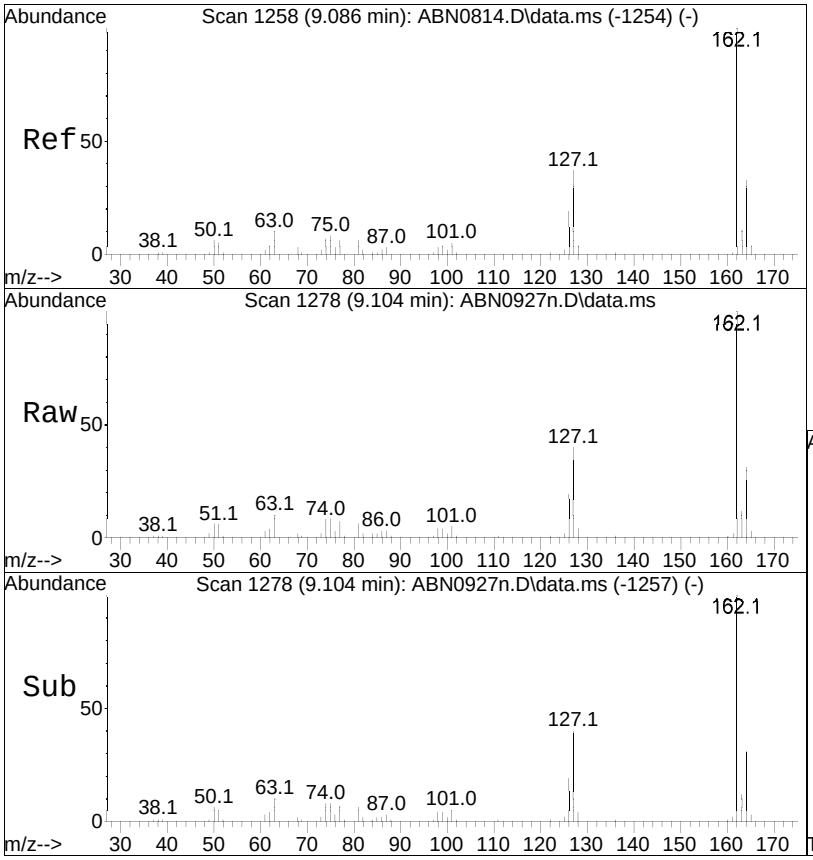


#45
2,4,5-Trichlorophenol
Concen: 5.07 ug/ml
RT: 8.951 min Scan# 1252
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:196 Resp: 17325

Ion	Ratio	Lower	Upper
196	100		
200	30.6	25.4	38.0
198	93.3	78.0	117.0

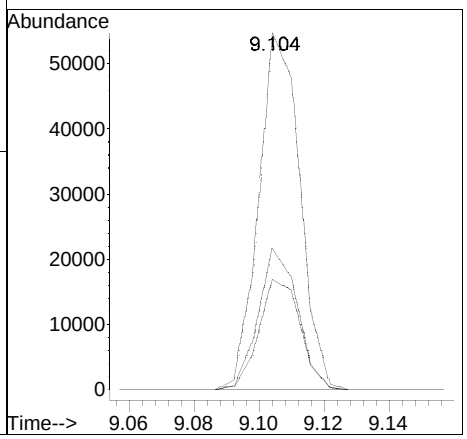


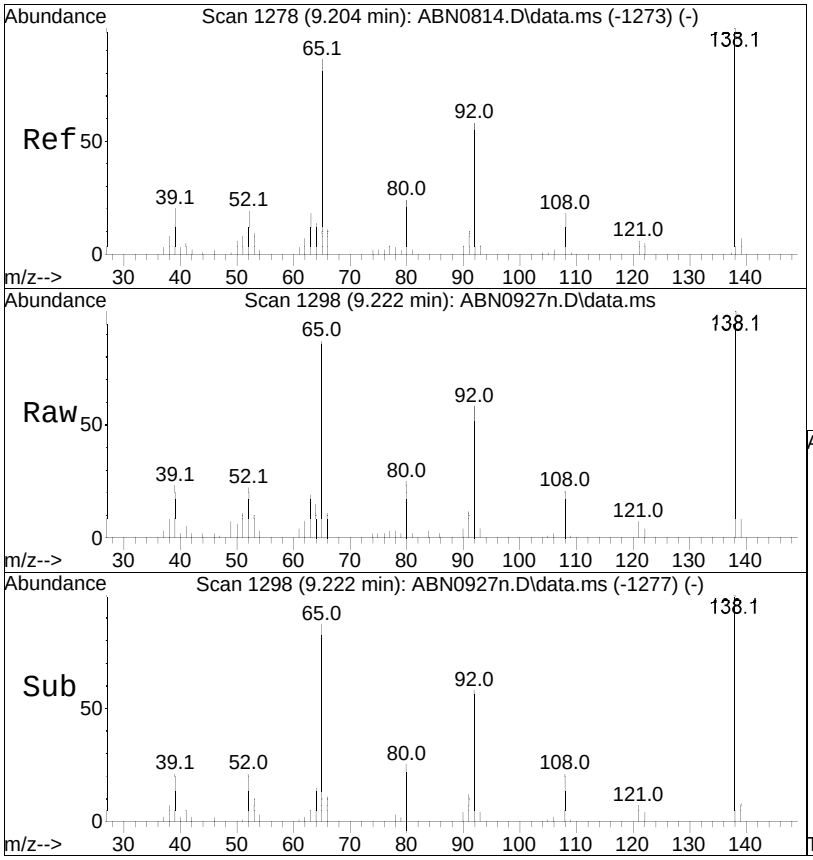


#47
2-Chloronaphthalene
Concen: 4.54 ug/ml
RT: 9.104 min Scan# 1278
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:162 Resp: 47581

Ion	Ratio	Lower	Upper
162	100		
127	38.1	32.2	48.4
164	31.3	25.7	38.5

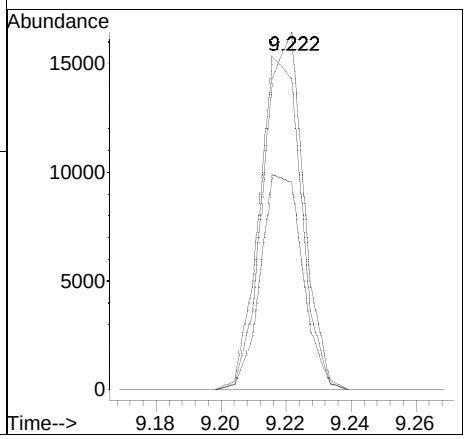


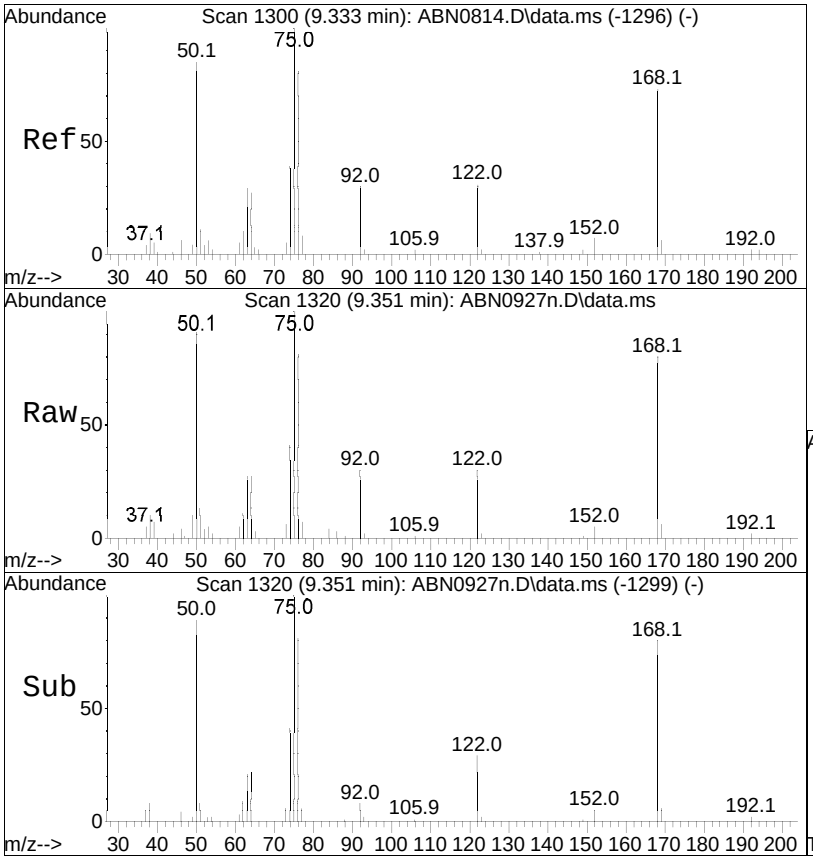


#48
2-Nitroaniline
Concen: 5.01 ug/ml
RT: 9.222 min Scan# 1298
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:138 Resp: 14050

Ion	Ratio	Lower	Upper
138	100		
92	62.8	53.5	80.3
65	97.2	86.3	129.5

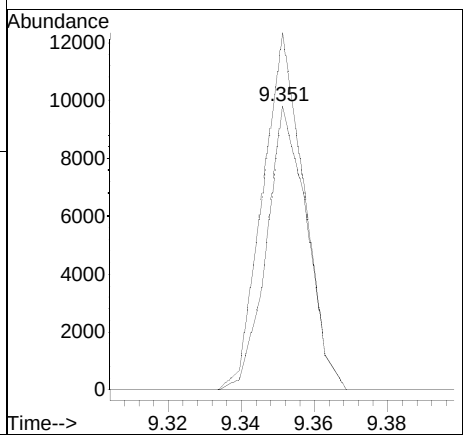


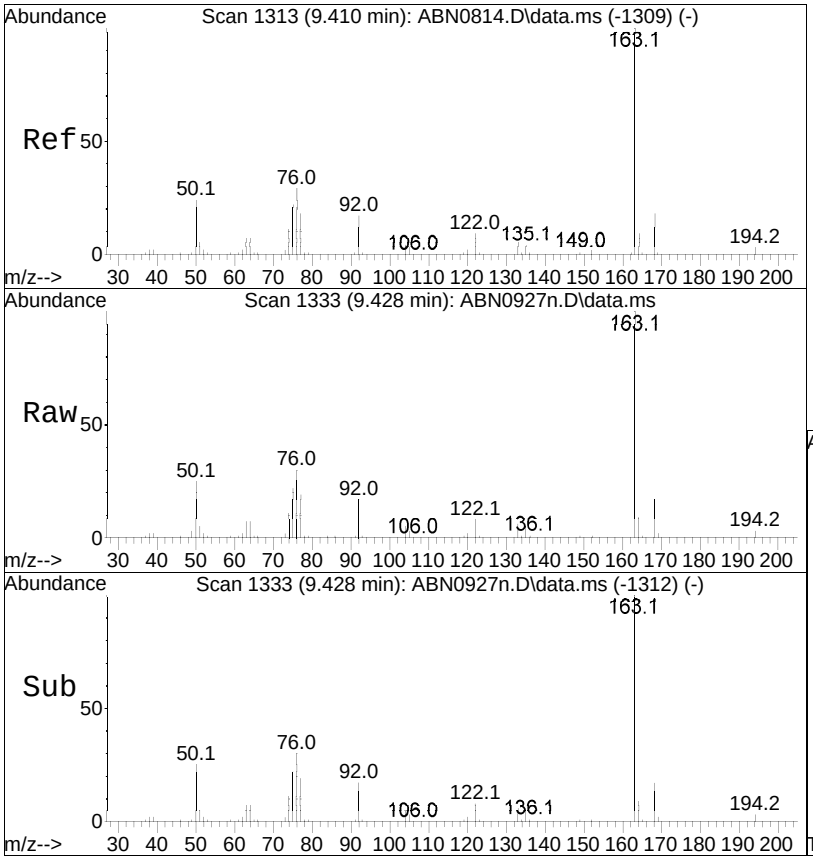


#49
1,4-Dinitrobenzene
Concen: 4.98 ug/ml
RT: 9.351 min Scan# 1320
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:168 Resp: 7514

Ion	Ratio	Lower	Upper
168	100		
75	128.8	121.8	182.8

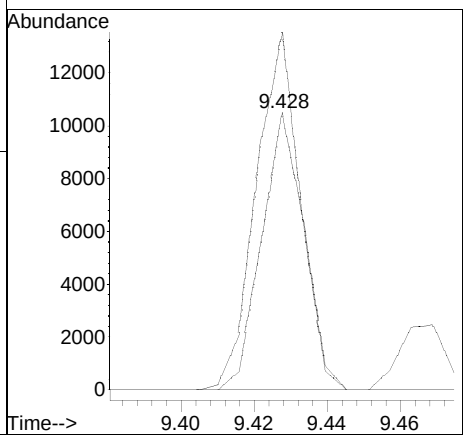


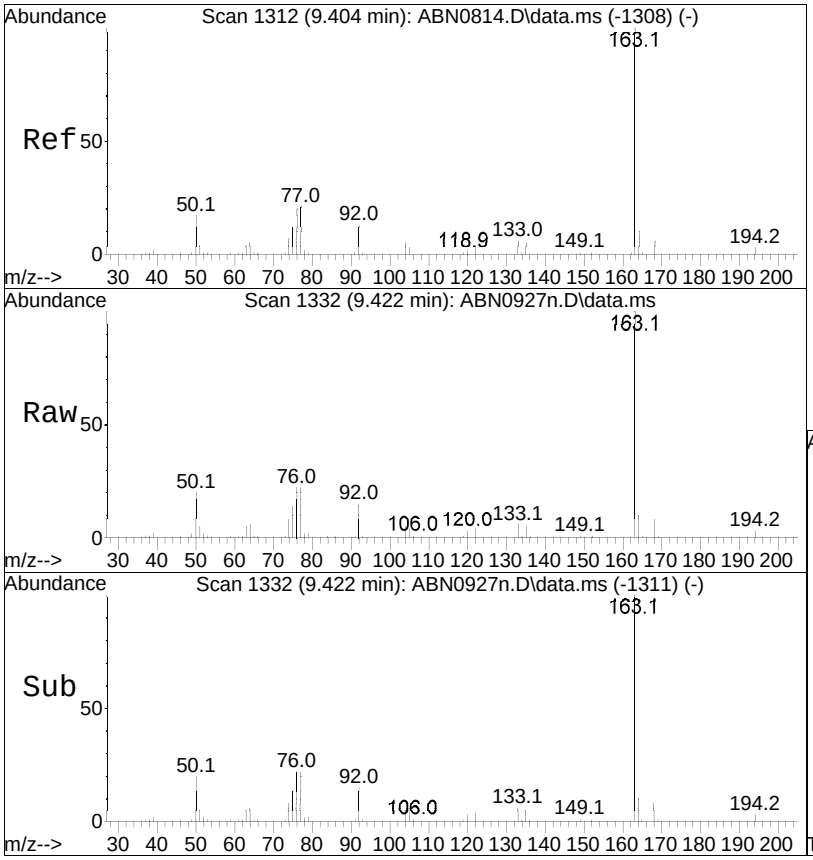


#50
1,3-Dinitrobenzene
Concen: 4.74 ug/ml
RT: 9.428 min Scan# 1333
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:168 Resp: 8399

Ion	Ratio	Lower	Upper
168	100		
75	133.6	22.7	34.1#

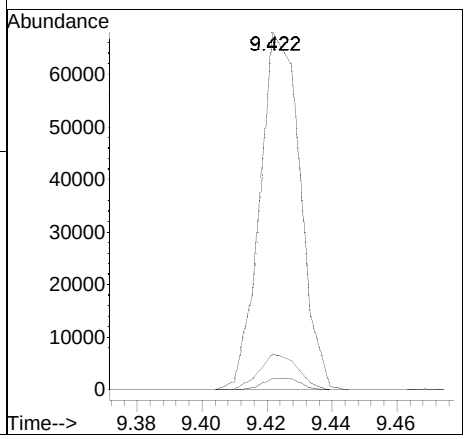


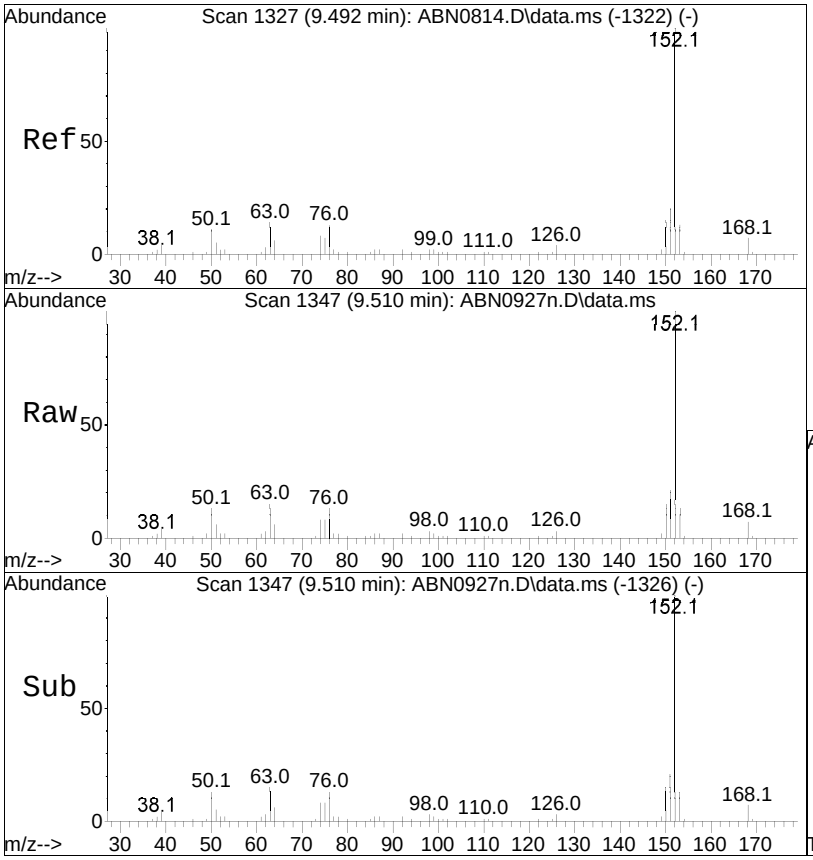


#51
Dimethyl phthalate
Concen: 4.90 ug/ml
RT: 9.422 min Scan# 1332
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:163 Resp: 58082

Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	9.8	7.9	11.9

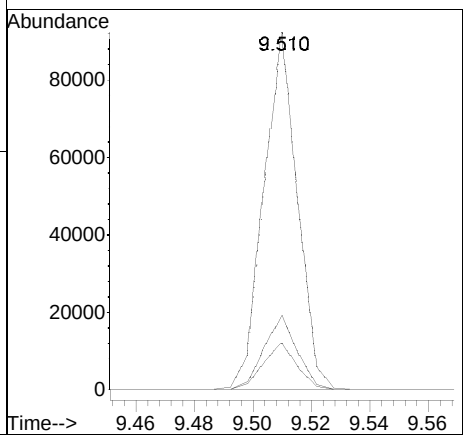


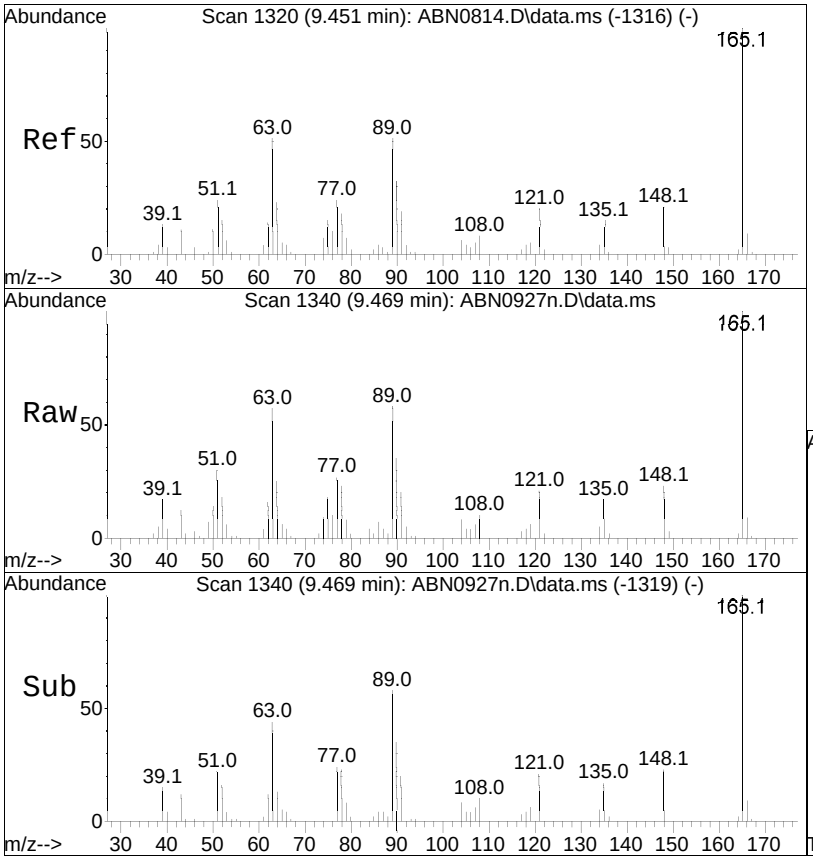


#52
Acenaphthylene
Concen: 4.69 ug/ml
RT: 9.510 min Scan# 1347
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:152 Resp: 73023

Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.8	23.6
153	13.1	10.5	15.7

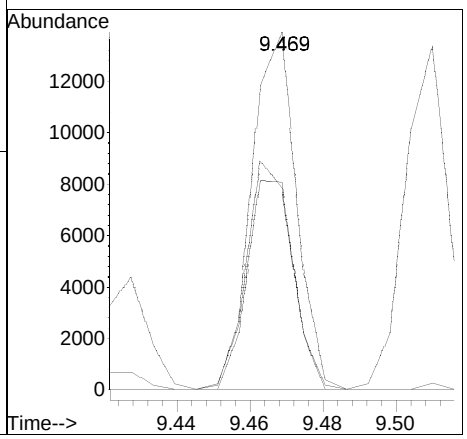


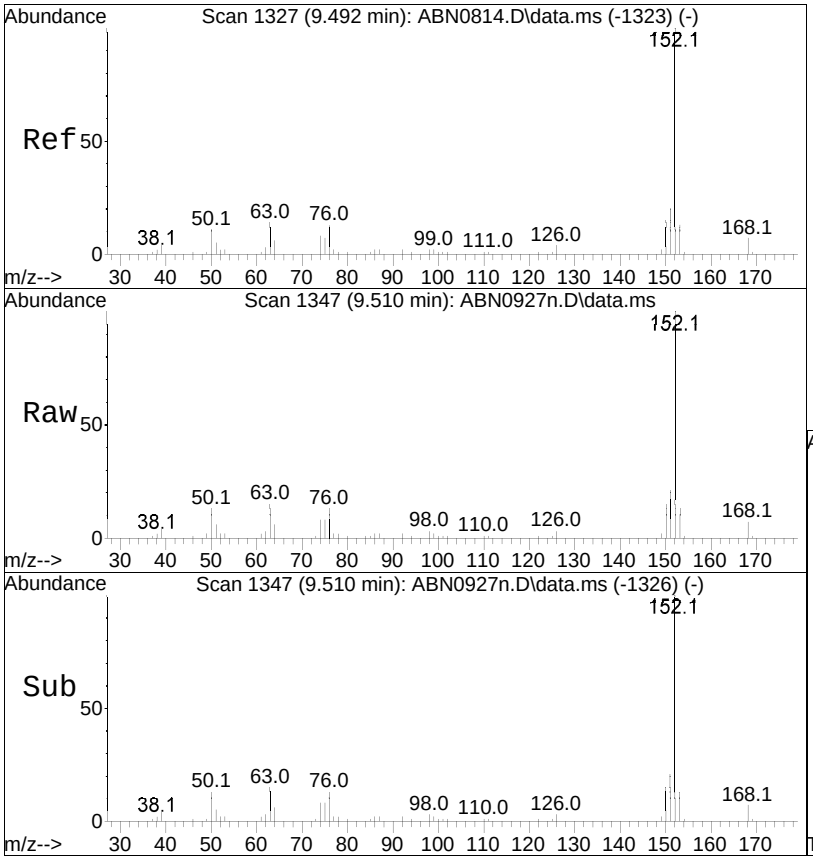


#53
2,6-Dinitrotoluene
Concen: 5.13 ug/ml
RT: 9.469 min Scan# 1340
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:165 Resp: 11887

Ion	Ratio	Lower	Upper
165	100		
89	61.7	54.2	81.2
63	64.4	64.2	96.2

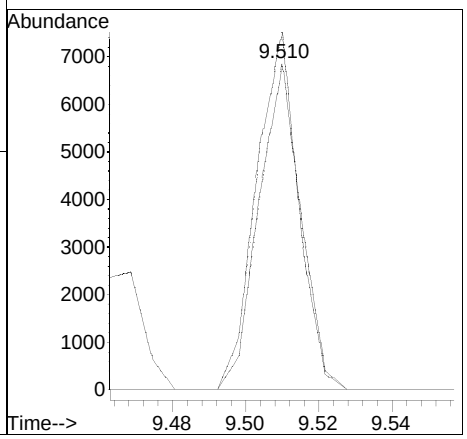


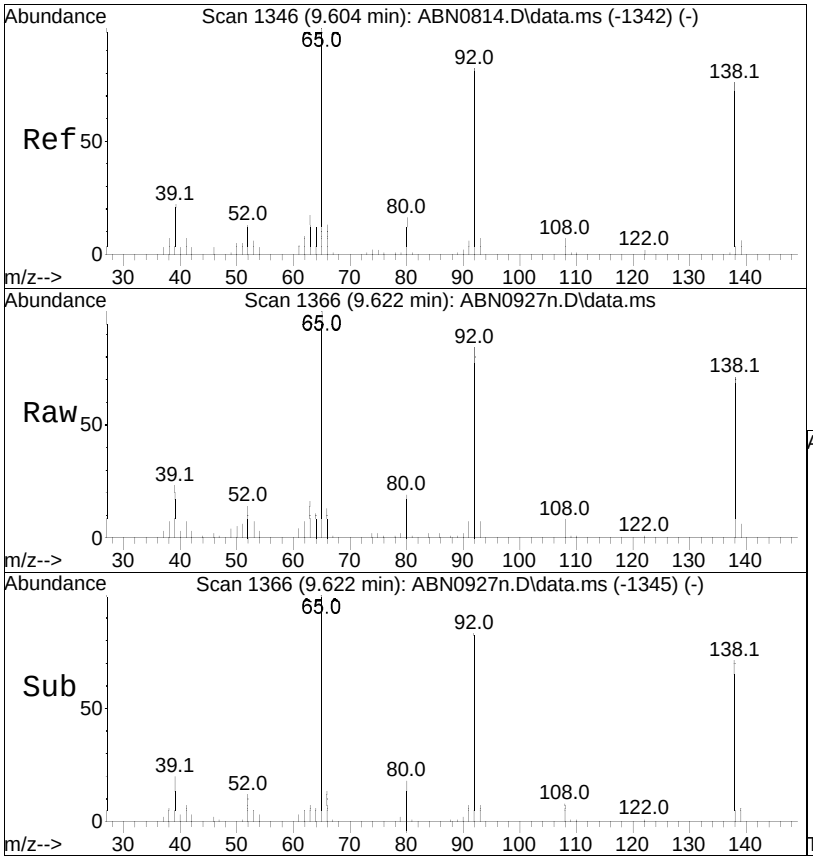


#54
1,2-Dinitrobenzene
Concen: 5.16 ug/ml
RT: 9.510 min Scan# 1347
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:168 Resp: 5433

Ion	Ratio	Lower	Upper
168	100		
75	110.0	30.9	46.3#

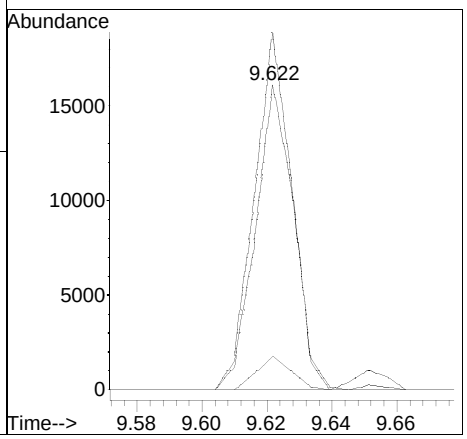


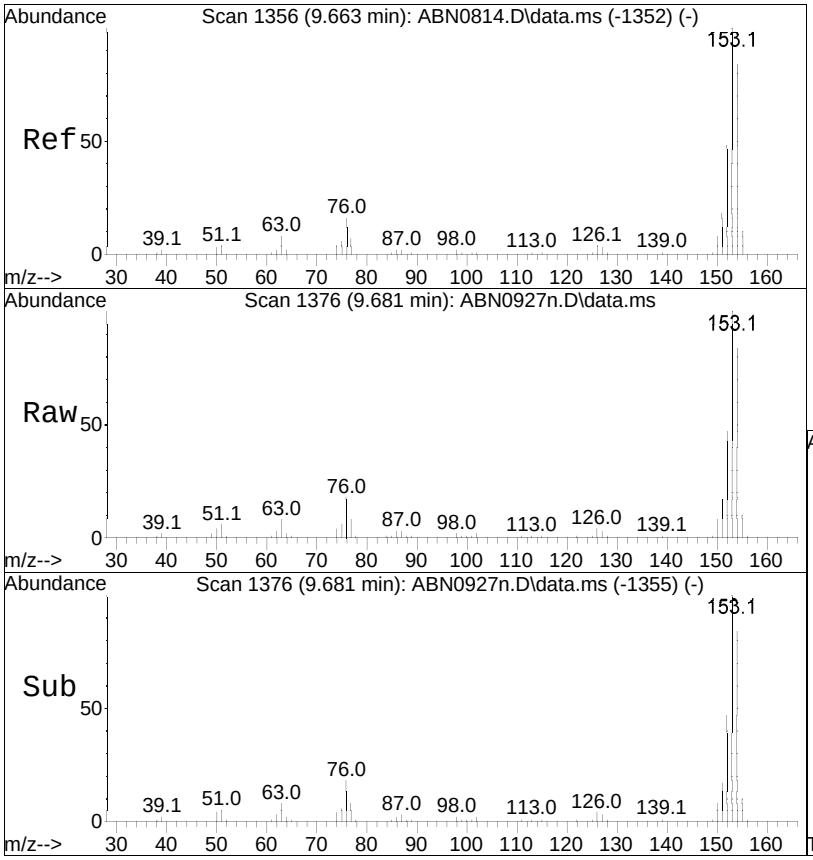


#64
3-Nitroaniline
Concen: 4.85 ug/ml
RT: 9.622 min Scan# 1366
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:138 Resp: 13061

Ion	Ratio	Lower	Upper
138	100		
92	114.4	93.4	140.2
108	10.1	9.5	14.3

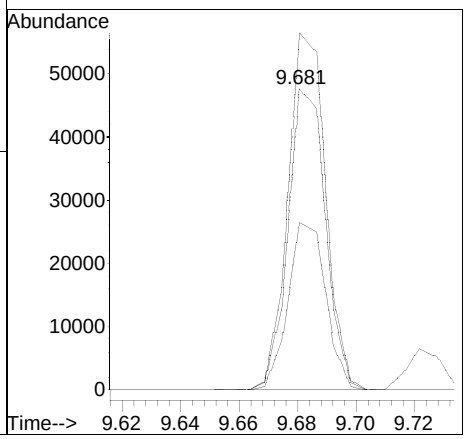


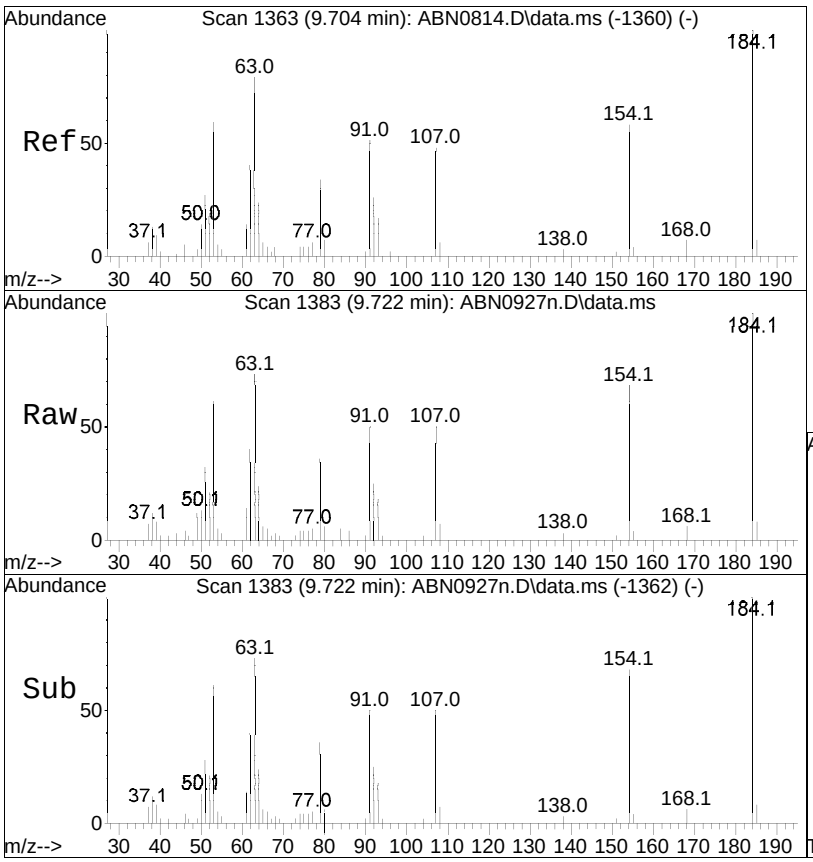


#65
Acenaphthene
Concen: 4.42 ug/ml
RT: 9.681 min Scan# 1376
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:154 Resp: 42349

Ion	Ratio	Lower	Upper
154	100		
153	119.3	85.3	127.9
152	56.1	41.4	62.0

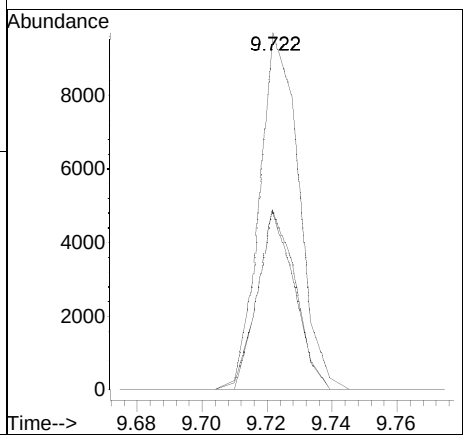


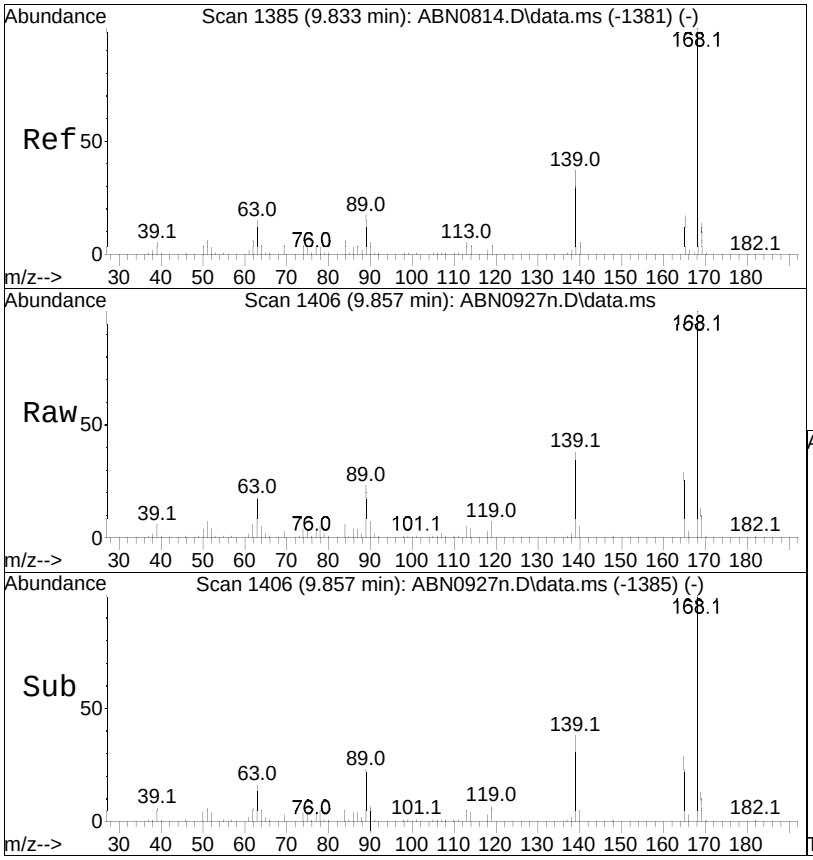


#66
2,4-Dinitrophenol
Concen: 5.21 ug/ml
RT: 9.722 min Scan# 1383
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:184 Resp: 8137

Ion	Ratio	Lower	Upper
184	100		
107	49.0	37.7	56.5
91	47.0	46.3	69.5

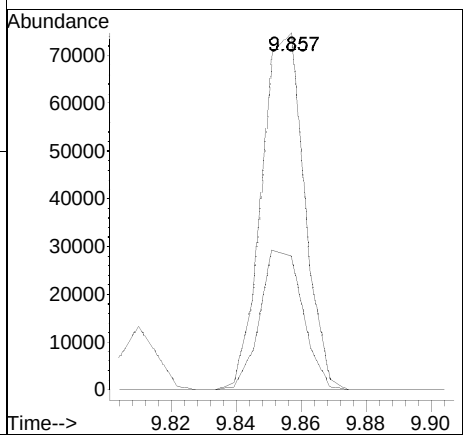


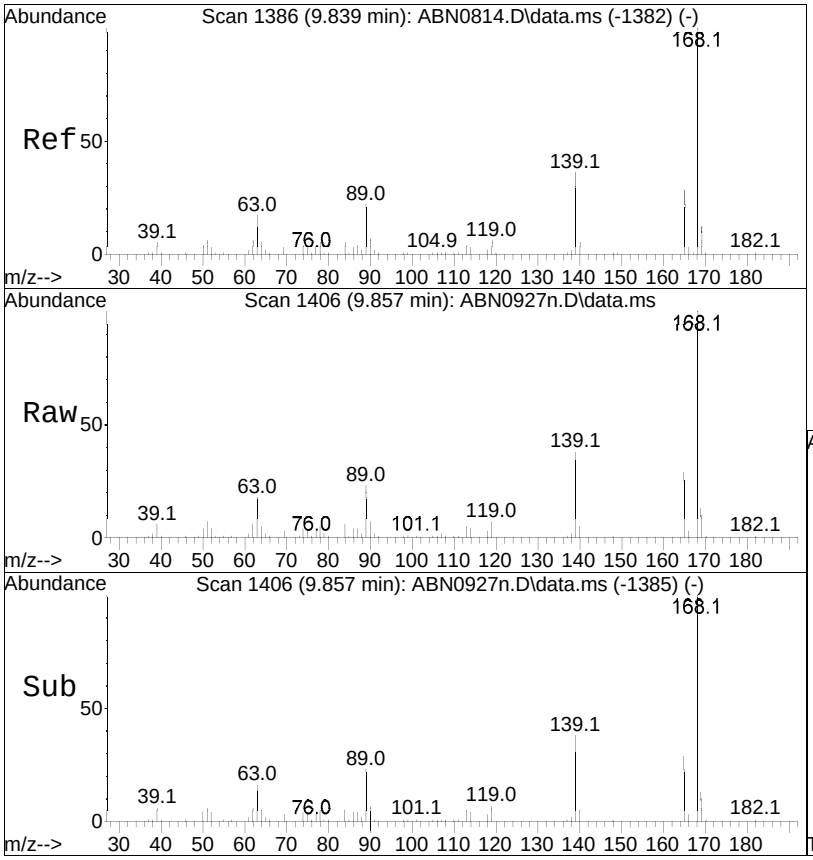


#67
Dibenzofuran
Concen: 4.29 ug/ml
RT: 9.857 min Scan# 1406
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:168 Resp: 67837

Ion	Ratio	Lower	Upper
168	100		
139	39.6	31.4	47.2

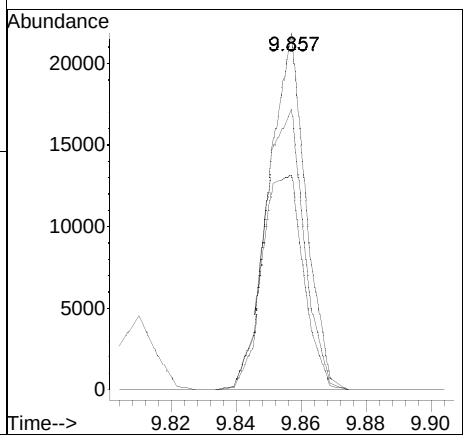


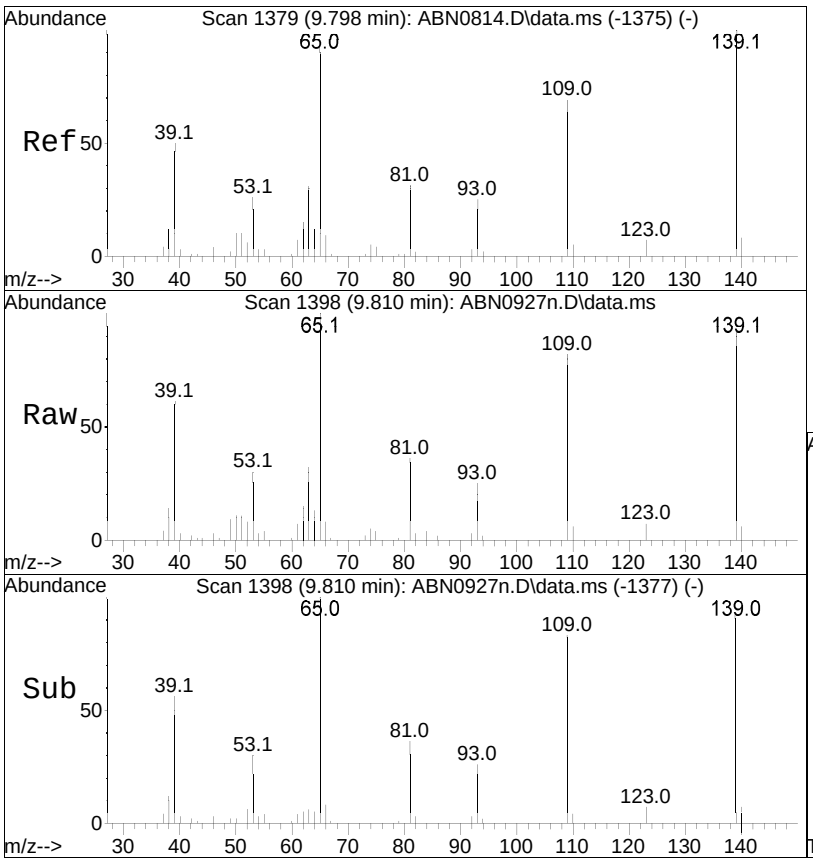


#68
2,4-Dinitrotoluene
Concen: 4.92 ug/ml
RT: 9.857 min Scan# 1406
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:165 Resp: 16905

Ion	Ratio	Lower	Upper
165	100		
89	85.2	72.0	108.0
63	69.7	52.7	79.1

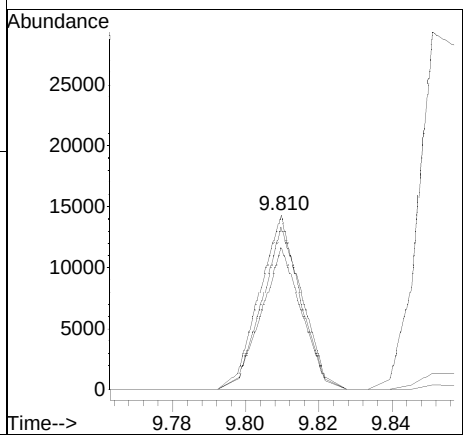


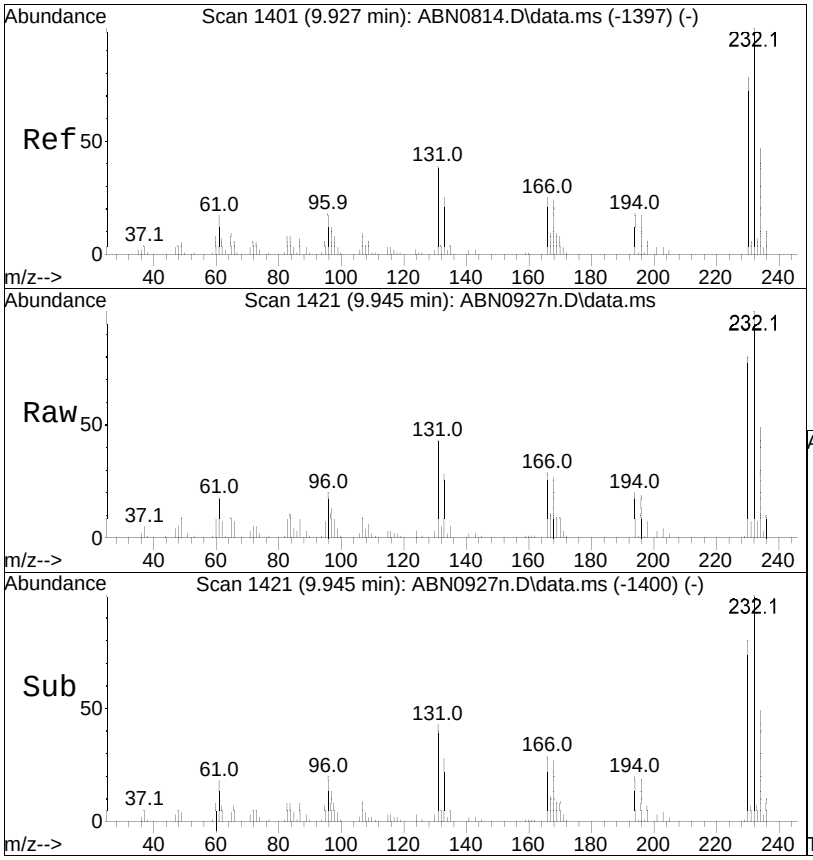


#69
4-Nitrophenol
Concen: 5.17 ug/ml
RT: 9.810 min Scan# 1398
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 65 Resp: 11016

Ion	Ratio	Lower	Upper
65	100		
109	80.9	47.4	71.2#
139	93.6	76.6	115.0

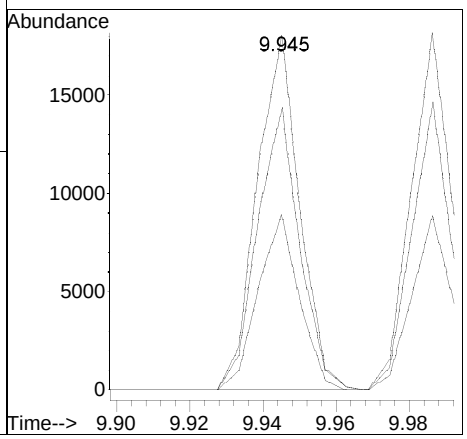


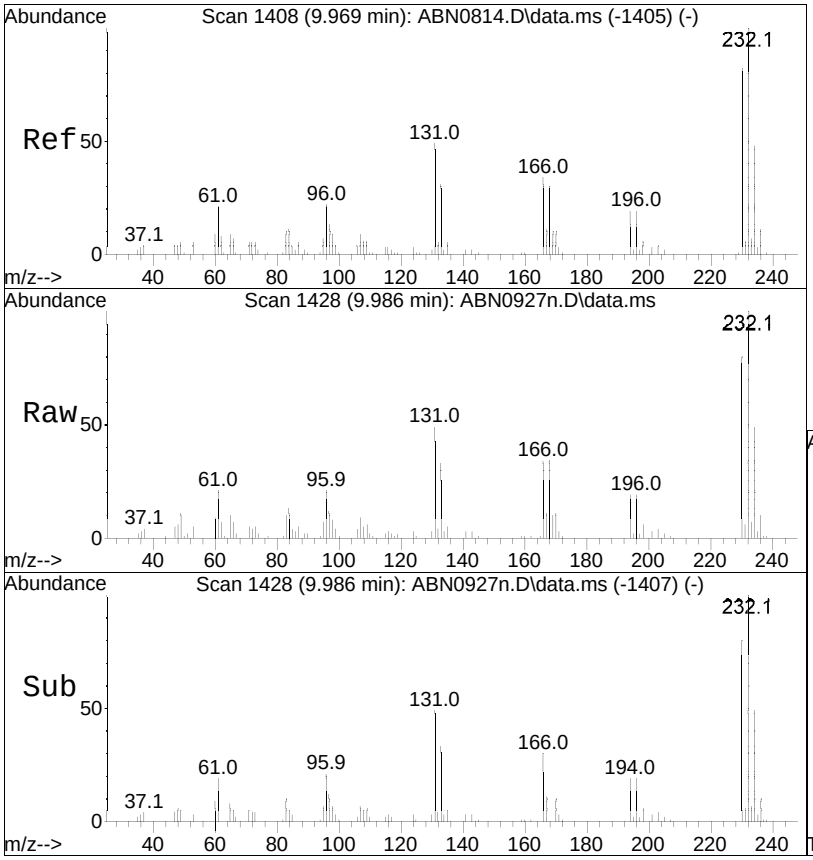


#70
2,3,5,6-Tetrachlorophenol
Concen: 5.07 ug/ml
RT: 9.945 min Scan# 1421
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:232 Resp: 14561

Ion	Ratio	Lower	Upper
232	100		
230	79.1	64.2	96.4
234	47.8	38.1	57.1

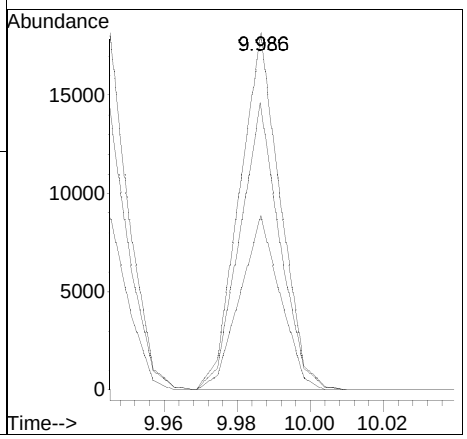


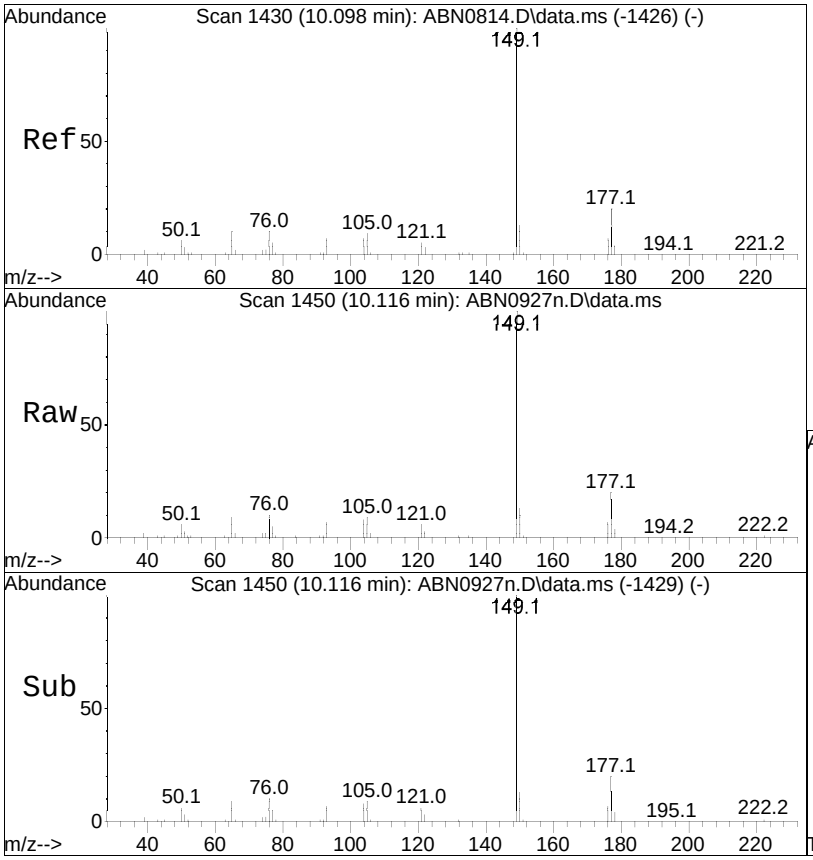


#71
2,3,4,6-Tetrachlorophenol
Concen: 5.16 ug/ml
RT: 9.986 min Scan# 1428
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:232 Resp: 14129

Ion	Ratio	Lower	Upper
232	100		
230	78.6	61.8	92.8
234	48.2	36.2	54.2

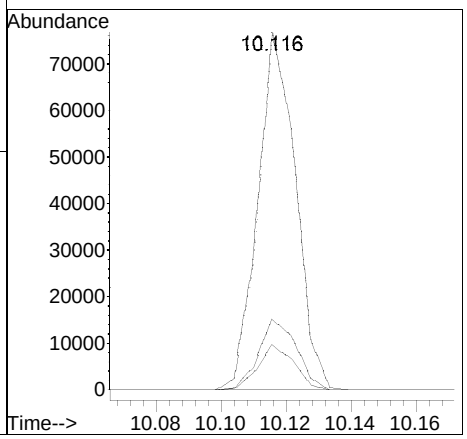


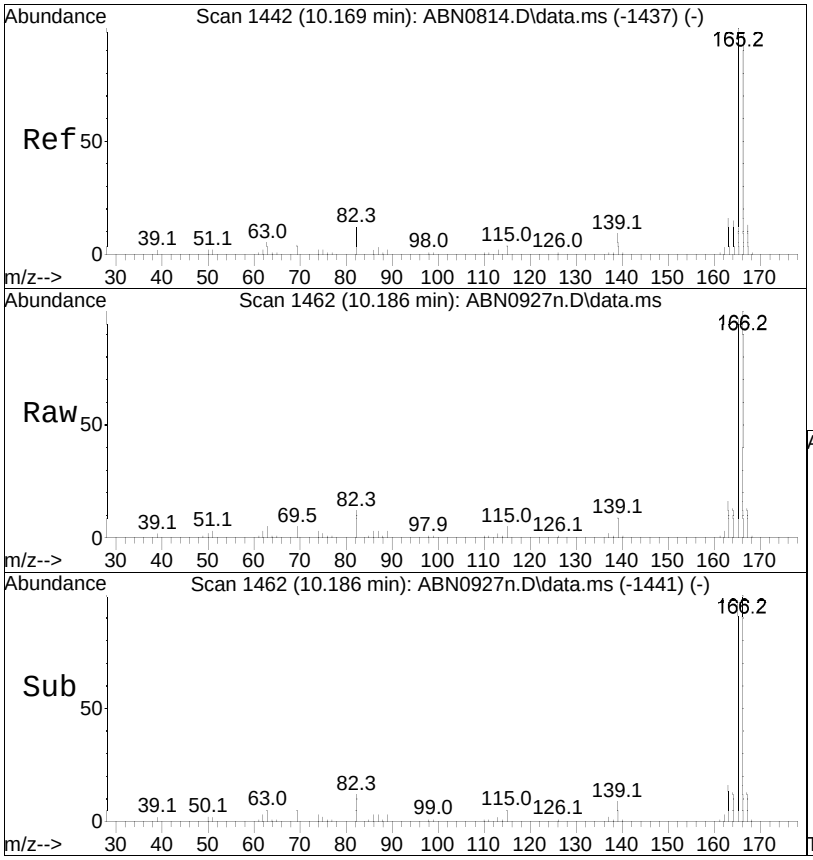


#72
Diethyl phthalate
Concen: 5.48 ug/ml
RT: 10.116 min Scan# 1450
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:149 Resp: 61158

Ion	Ratio	Lower	Upper
149	100		
177	20.0	16.1	24.1
150	12.2	9.4	14.2

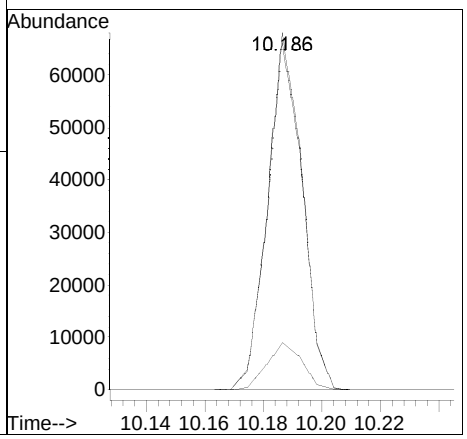


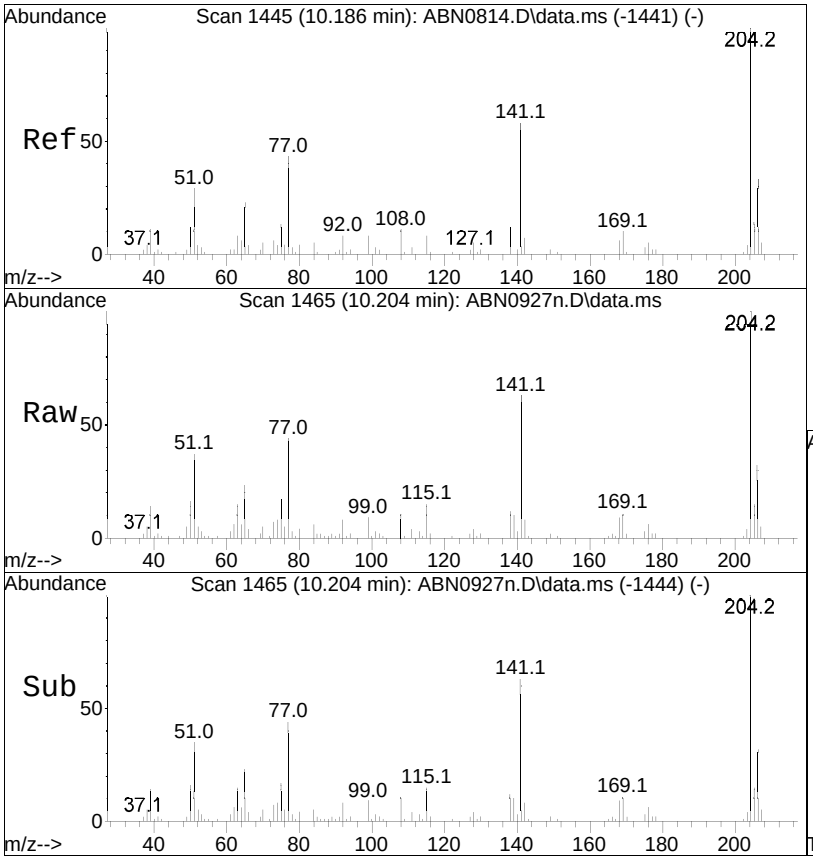


#73
Fluorene
Concen: 4.70 ug/ml
RT: 10.186 min Scan# 1462
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:166 Resp: 55576

Ion	Ratio	Lower	Upper
166	100		
165	98.0	76.2	114.2
167	13.8	10.6	15.8

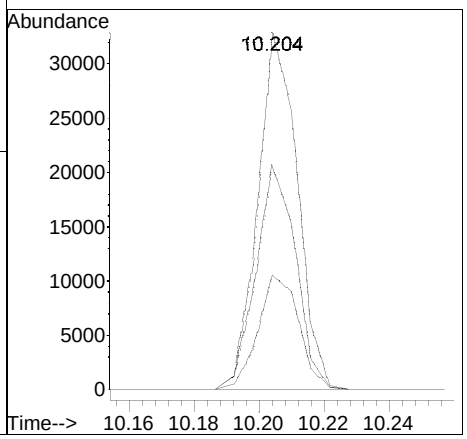


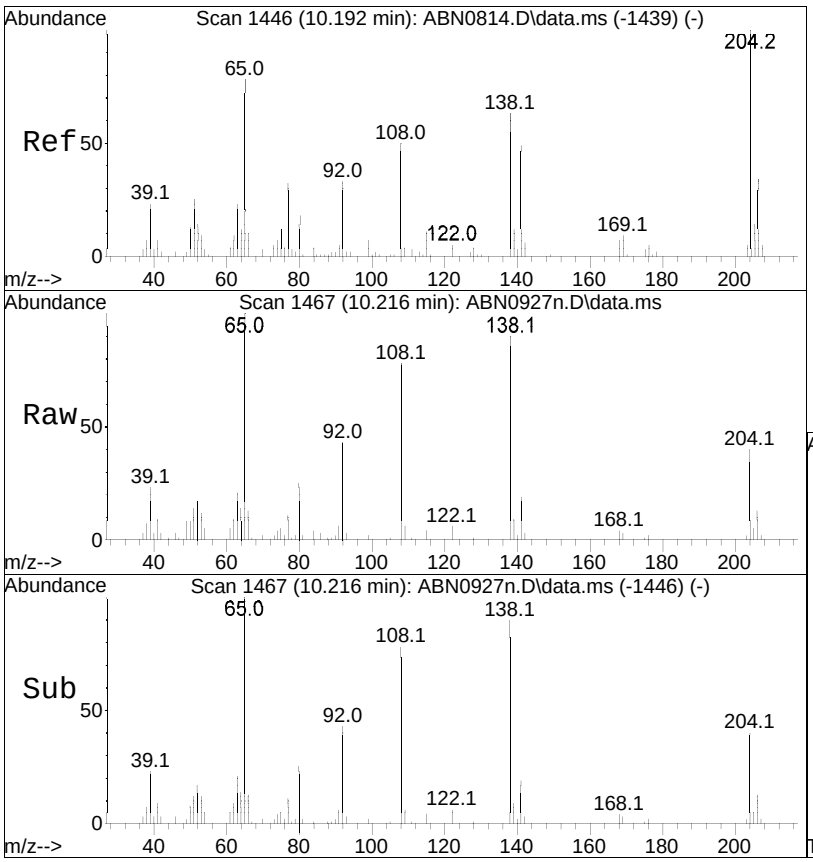


#74
4-Chlorophenyl phenyl ether
Concen: 4.58 ug/ml
RT: 10.204 min Scan# 1465
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:204 Resp: 27503

Ion	Ratio	Lower	Upper
204	100		
206	33.3	25.8	38.6
141	63.3	53.6	80.4

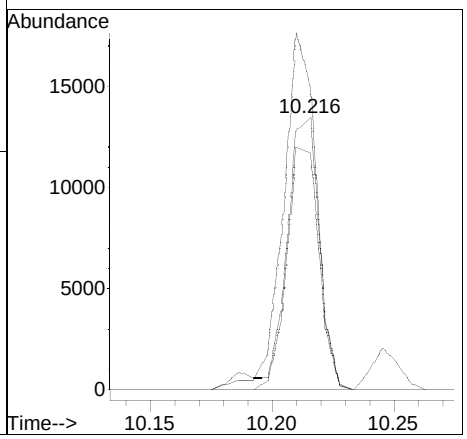


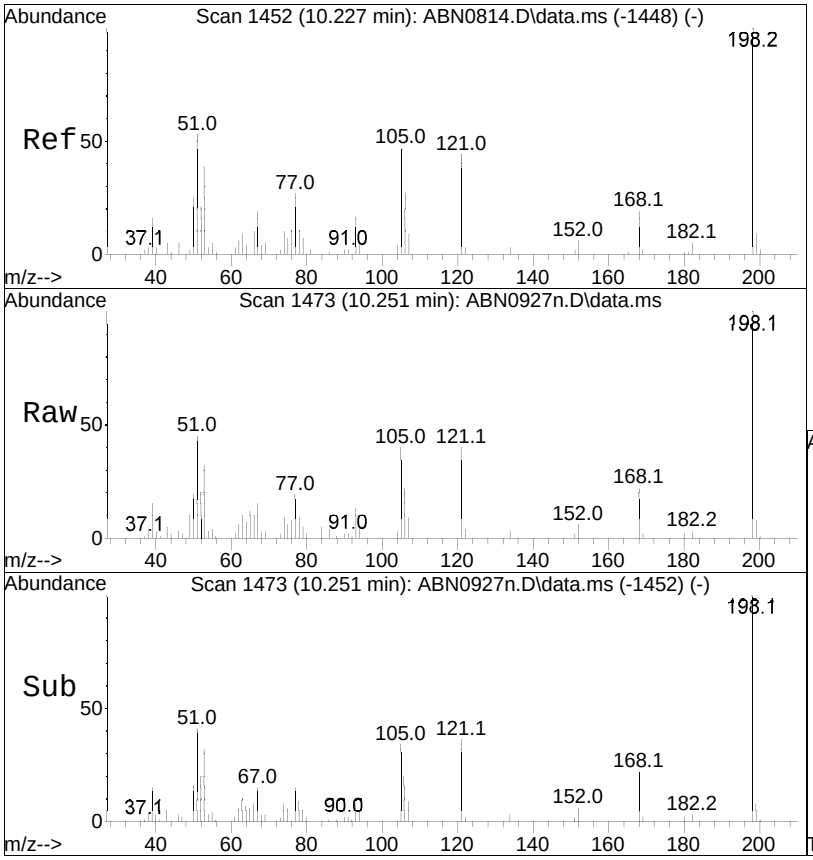


#75
4-Nitroaniline
Concen: 4.78 ug/ml
RT: 10.216 min Scan# 1467
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:138 Resp: 12881

Ion	Ratio	Lower	Upper
138	100		
108	84.7	52.1	78.1#
65	128.8	115.0	172.6

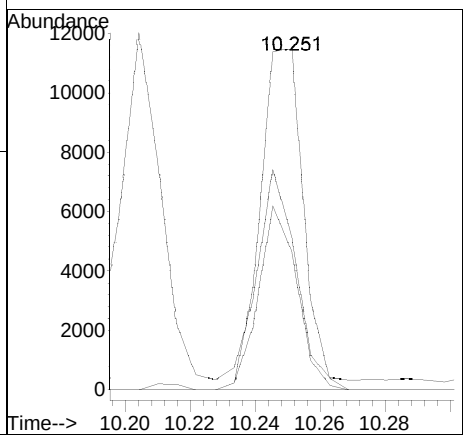


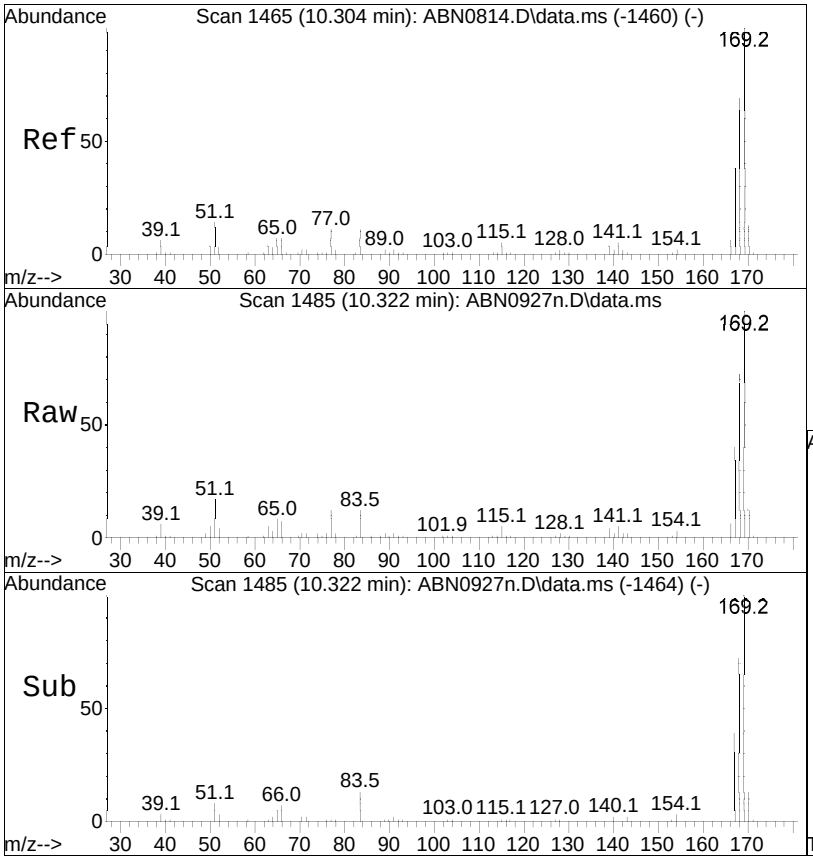


#76
4,6-Dinitro-o-cresol
Concen: 5.00 ug/ml
RT: 10.251 min Scan# 1473
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:198 Resp: 10543

Ion	Ratio	Lower	Upper
198	100		
51	53.5	76.0	114.0#
105	48.2	45.6	68.4

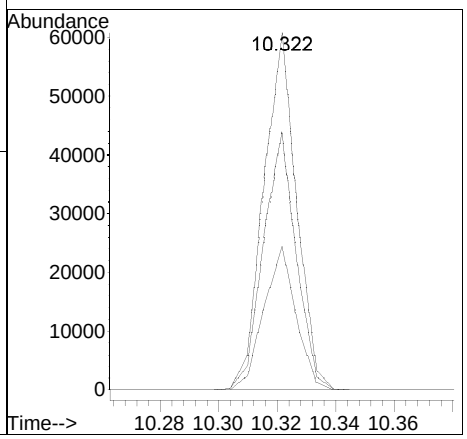


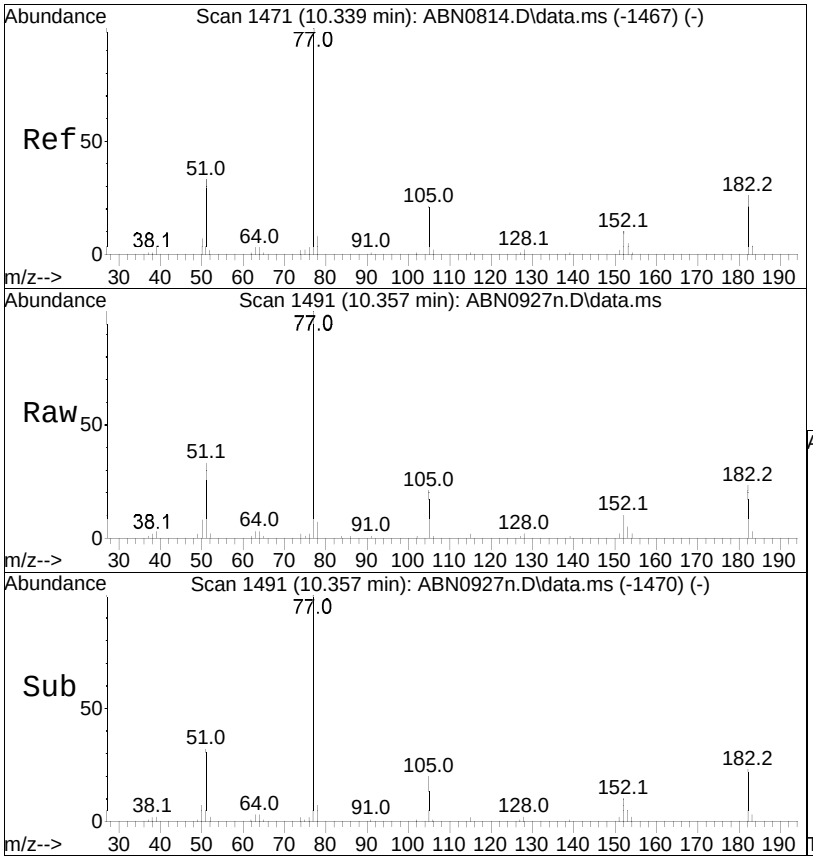


#77
NDPA/DPA
Concen: 4.81 ug/ml
RT: 10.322 min Scan# 1485
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:169 Resp: 47165

Ion	Ratio	Lower	Upper
169	100		
168	71.9	54.0	81.0
167	39.4	28.6	42.8

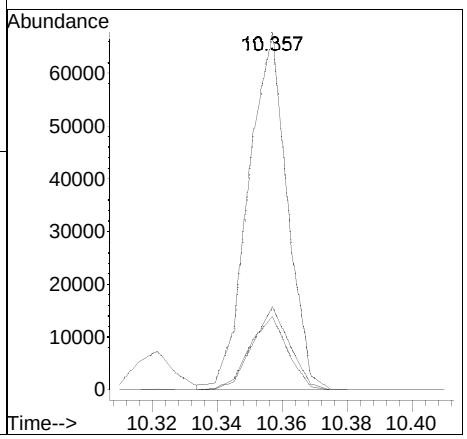


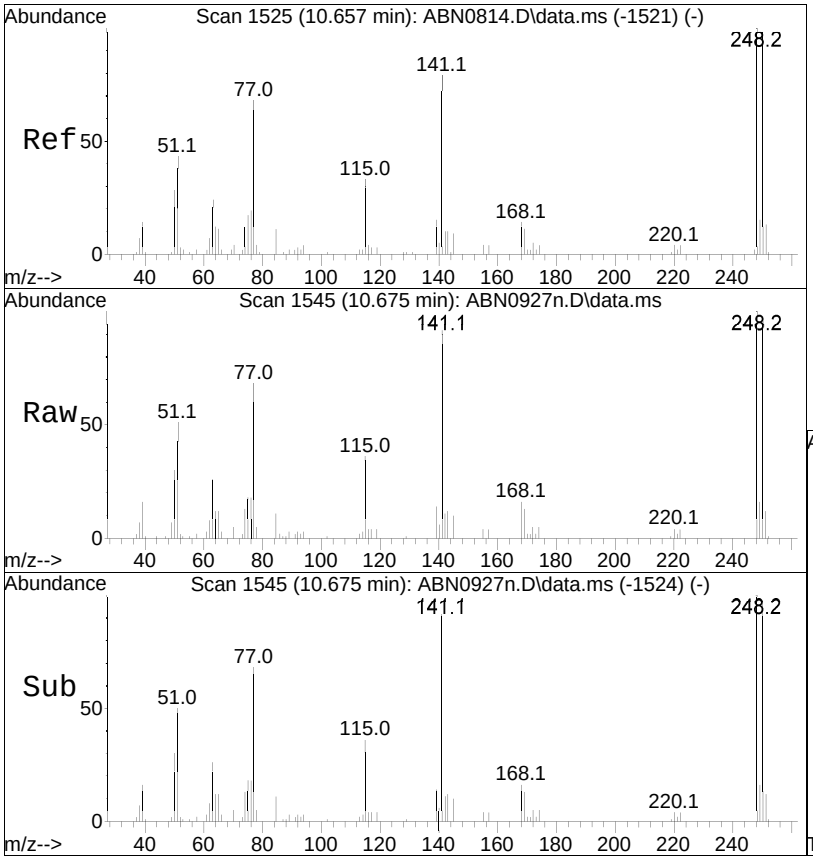


#78
Azobenzene
Concen: 5.41 ug/ml
RT: 10.357 min Scan# 1491
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion: 77 Resp: 55790

Ion	Ratio	Lower	Upper
77	100		
182	22.3	17.4	26.2
105	20.4	15.4	23.2

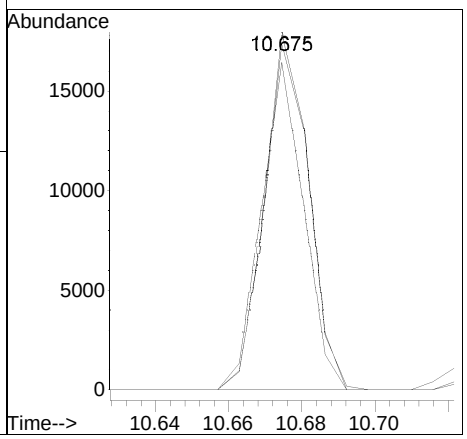


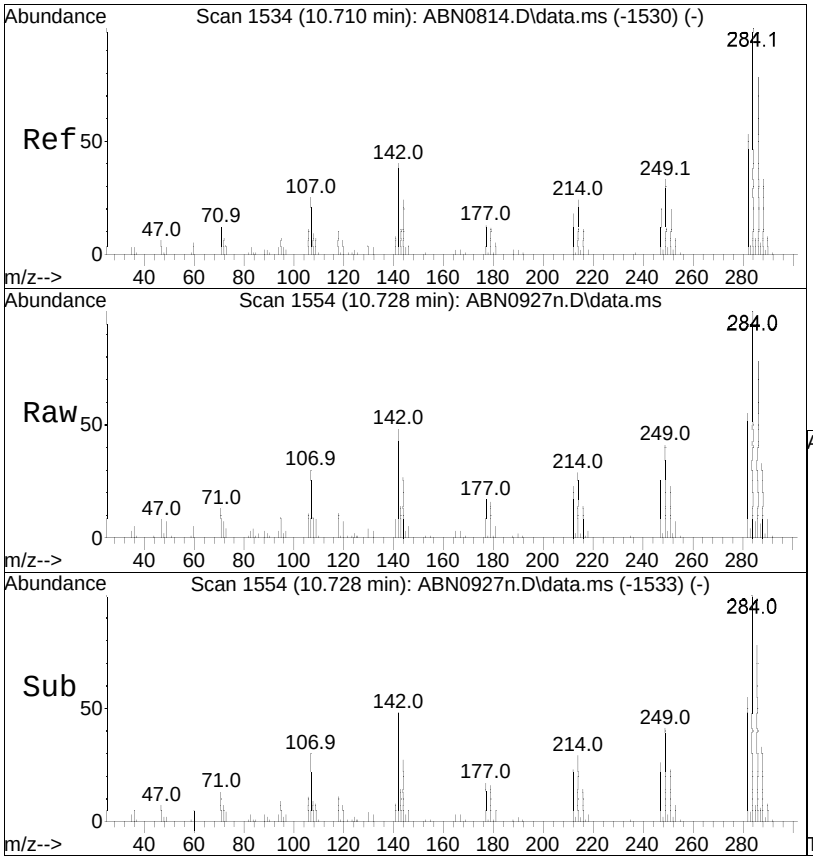


#80
4-Bromophenyl phenyl ether
Concen: 4.60 ug/ml
RT: 10.675 min Scan# 1545
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:248 Resp: 14912

Ion	Ratio	Lower	Upper
248	100		
141	88.3	76.6	114.8
250	98.3	77.3	115.9

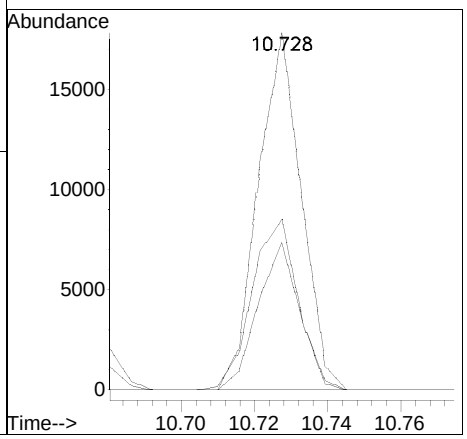


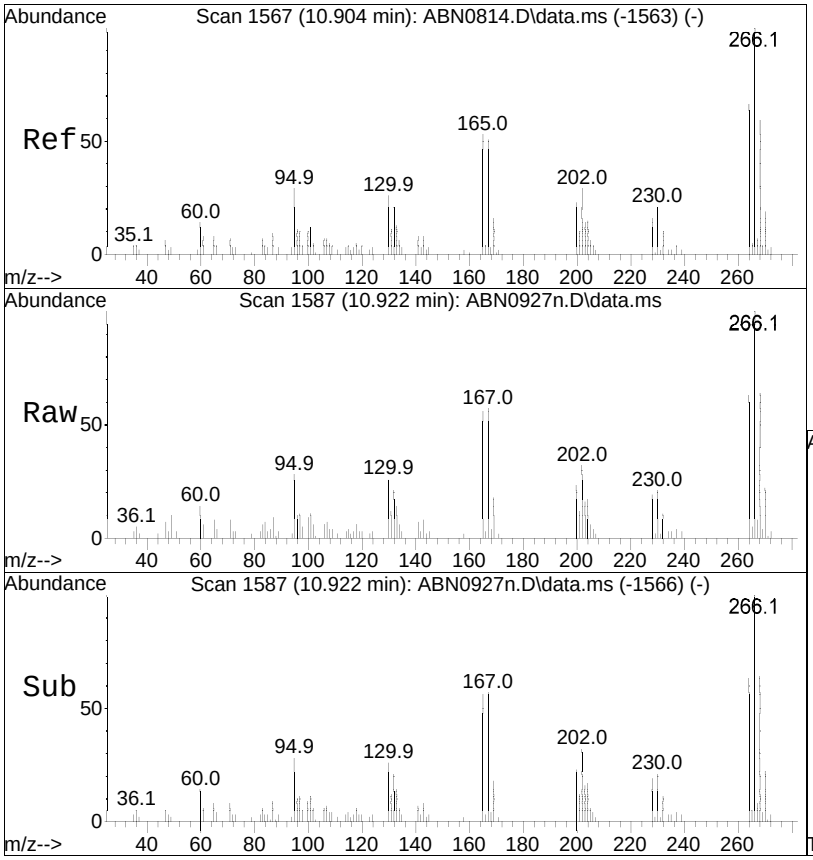


#81
Hexachlorobenzene
Concen: 4.07 ug/ml
RT: 10.728 min Scan# 1554
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:284 Resp: 14542

Ion	Ratio	Lower	Upper
284	100		
142	51.0	41.9	62.9
249	40.3	24.1	36.1#

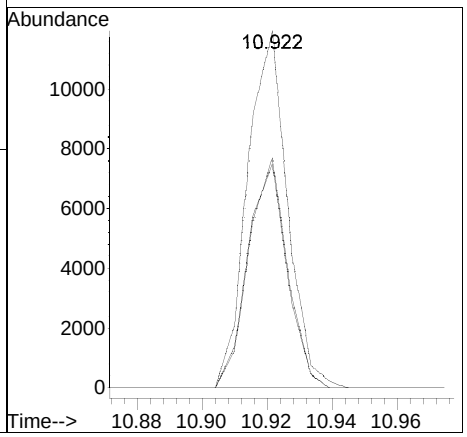


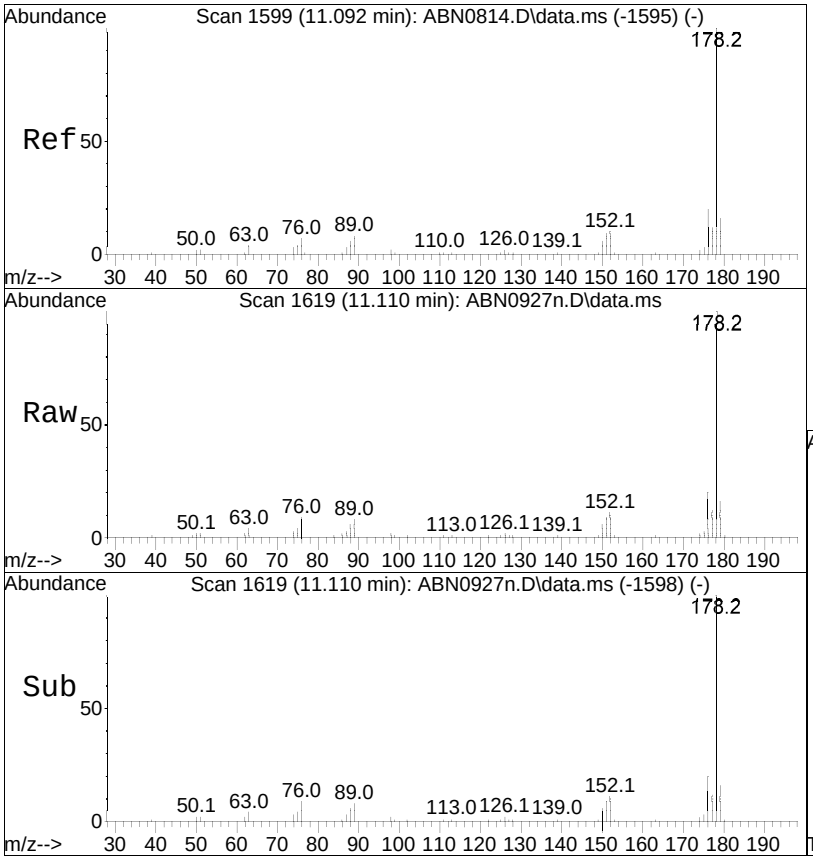


#82
Pentachlorophenol
Concen: 4.22 ug/ml
RT: 10.922 min Scan# 1587
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:266 Resp: 10148

Ion	Ratio	Lower	Upper
266	100		
264	62.1	49.7	74.5
268	62.5	50.5	75.7

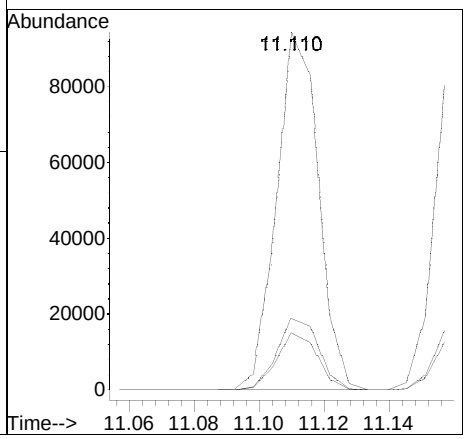


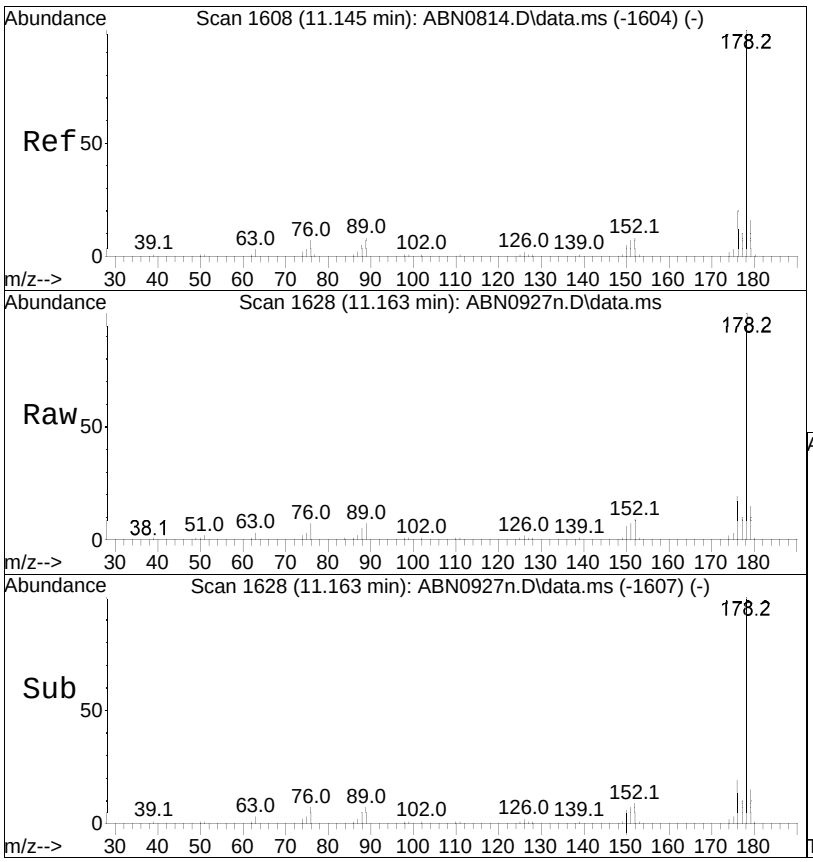


#89
Phenanthrene
Concen: 4.19 ug/ml
RT: 11.110 min Scan# 1619
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:178 Resp: 84478

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.2
176	20.0	15.4	23.2

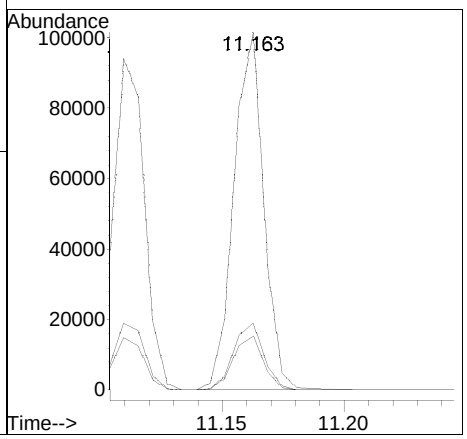


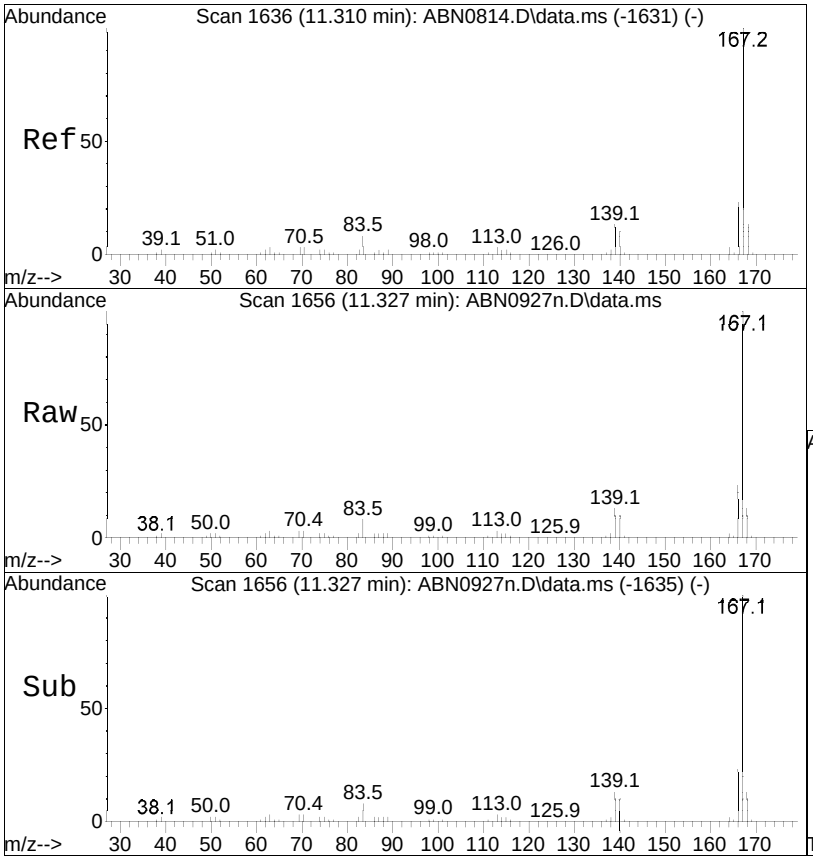


#90
Anthracene
Concen: 4.52 ug/ml
RT: 11.163 min Scan# 1628
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:178 Resp: 86207

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.0	18.0
176	19.0	14.6	22.0

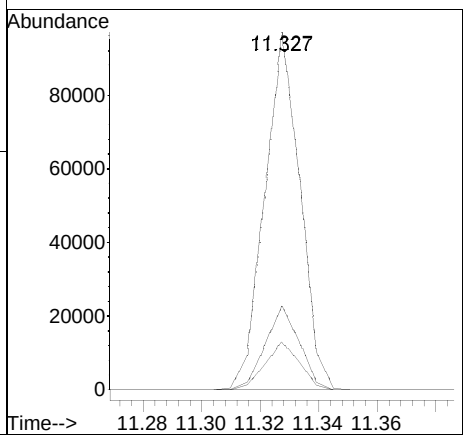


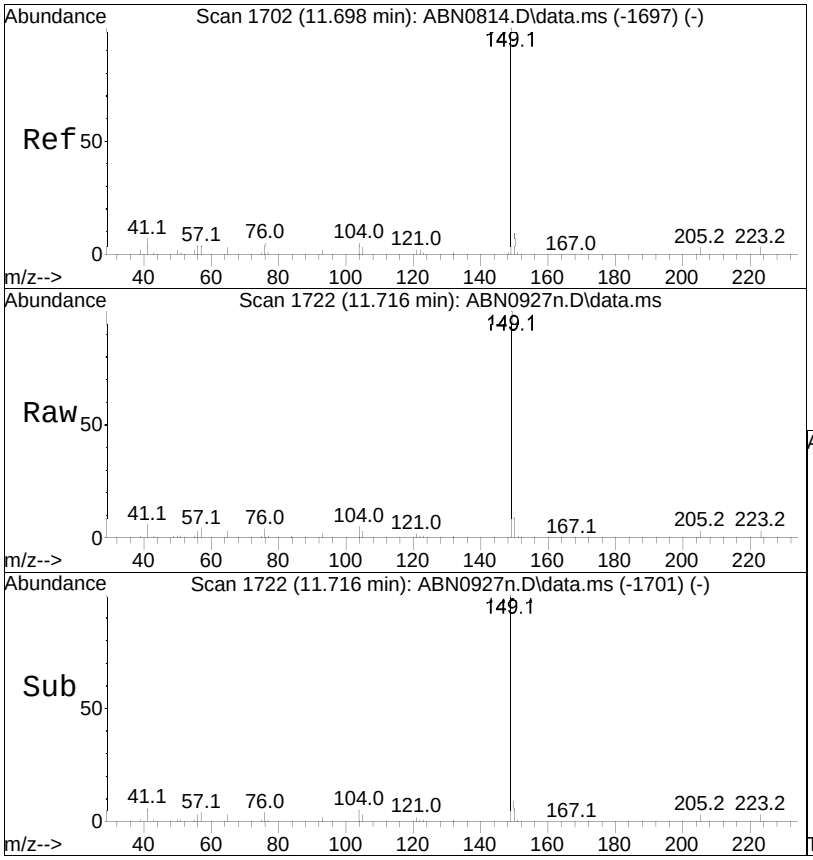


#91
Carbazole
Concen: 4.62 ug/ml
RT: 11.327 min Scan# 1656
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:167 Resp: 80433

Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	22.9	17.4	26.0

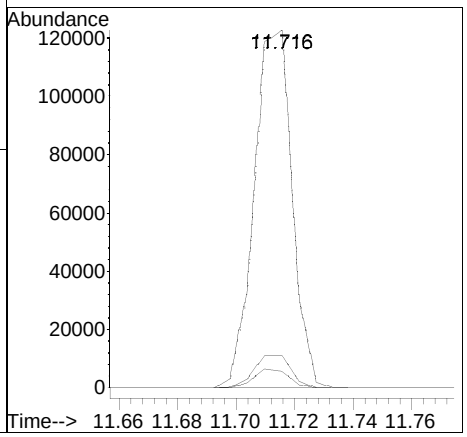


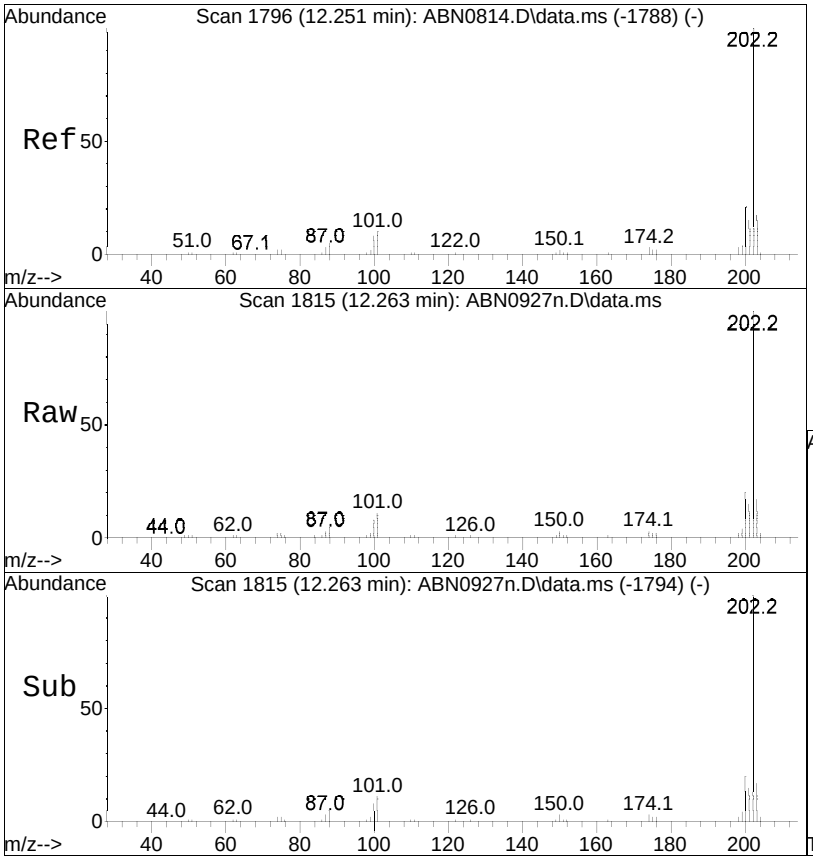


#92
Di-n-butylphthalate
Concen: 5.70 ug/ml
RT: 11.716 min Scan# 1722
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:149 Resp: 109135

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.0	10.6
104	5.0	4.5	6.7

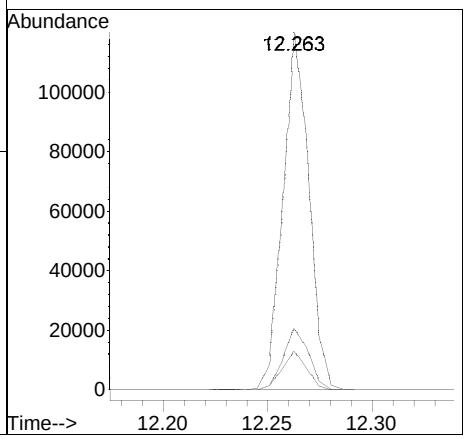


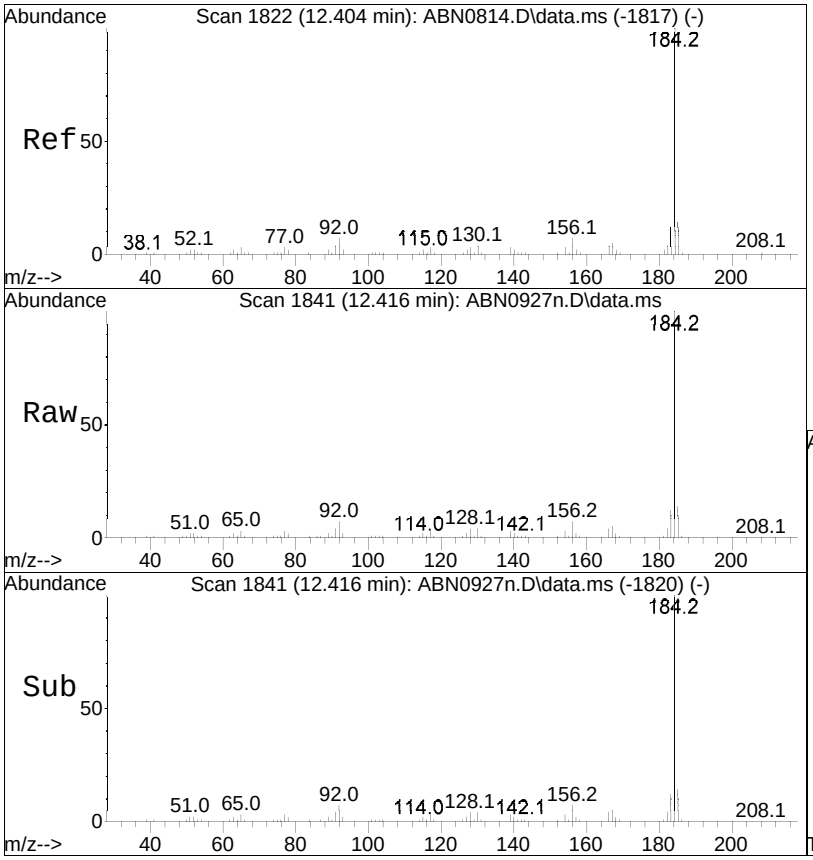


#93
Fluoranthene
Concen: 4.62 ug/ml
RT: 12.263 min Scan# 1815
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:202 Resp: 101932

Ion	Ratio	Lower	Upper
202	100		
101	10.5	13.5	20.3#
203	17.1	13.6	20.4

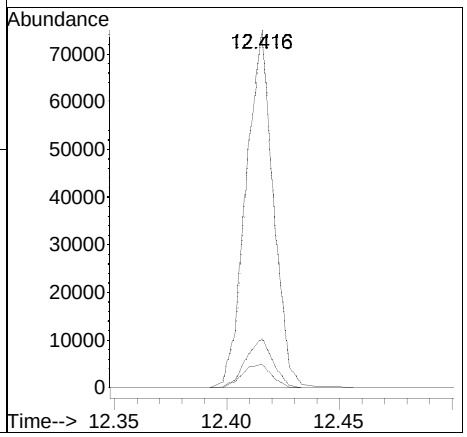


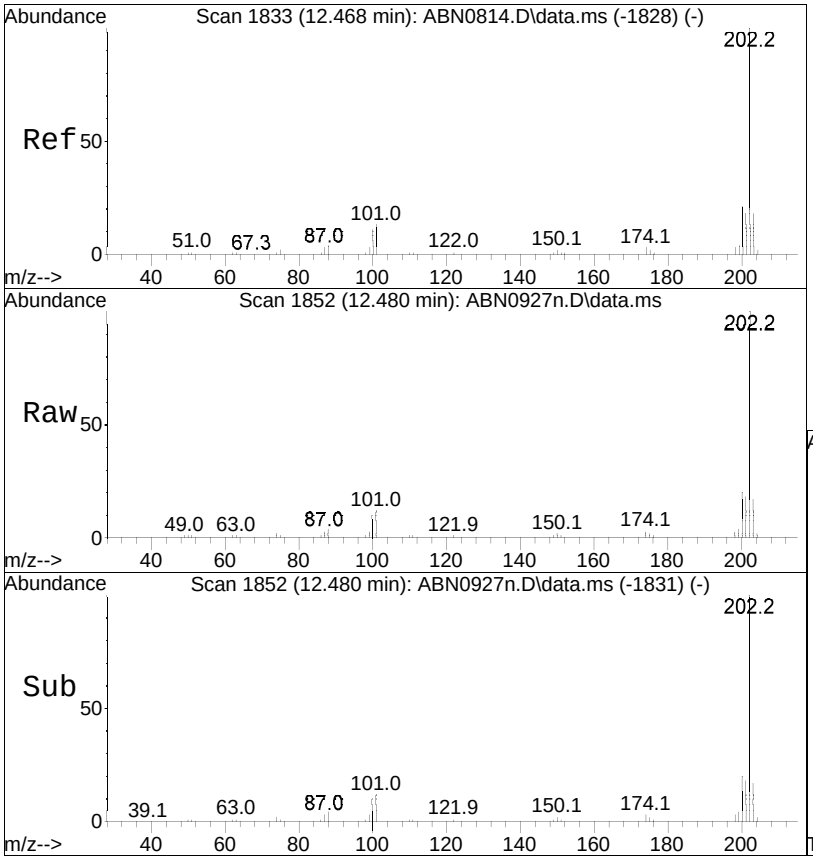


#94
Benzidine
Concen: 4.85 ug/ml
RT: 12.416 min Scan# 1841
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:184 Resp: 62544

Ion	Ratio	Lower	Upper
184	100		
92	7.1	9.1	13.7#
185	13.8	11.1	16.7

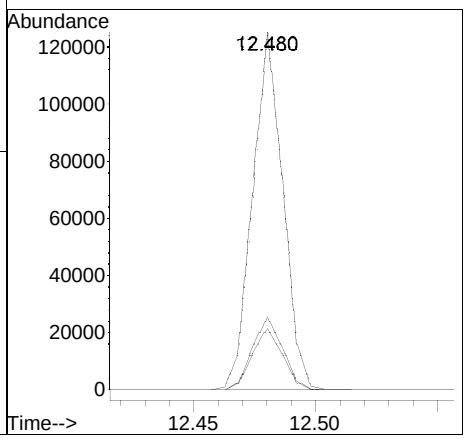


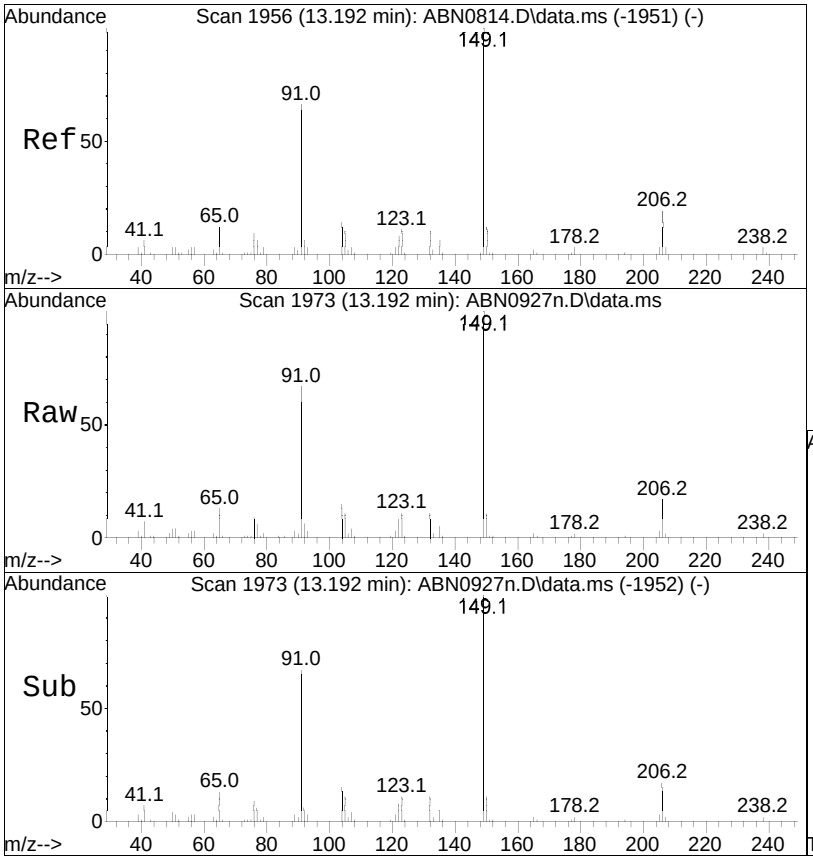


#95
Pyrene
Concen: 4.45 ug/ml
RT: 12.480 min Scan# 1852
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:202 Resp: 106811

Ion	Ratio	Lower	Upper
202	100		
200	20.5	16.7	25.1
203	17.4	14.2	21.4

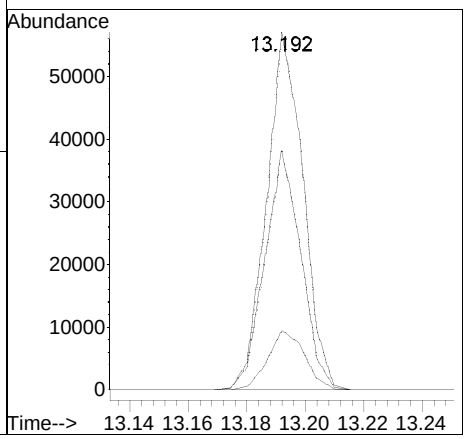


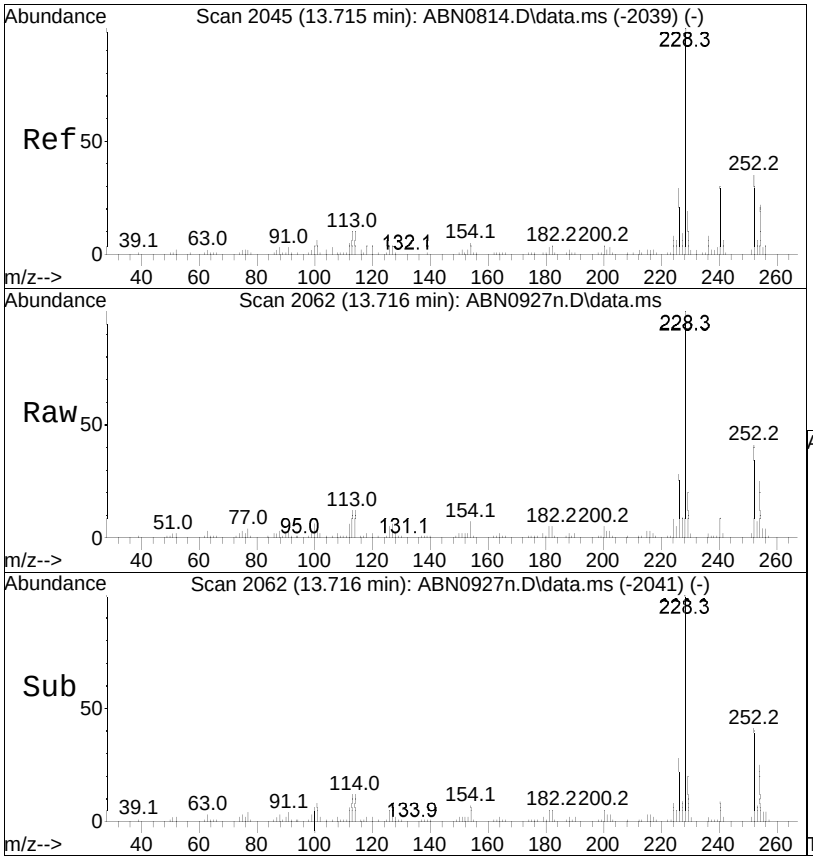


#97
Butyl benzyl phthalate
Concen: 4.91 ug/ml
RT: 13.192 min Scan# 1973
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:149 Resp: 48879

Ion	Ratio	Lower	Upper
149	100		
91	66.4	63.3	94.9
206	16.8	13.9	20.9

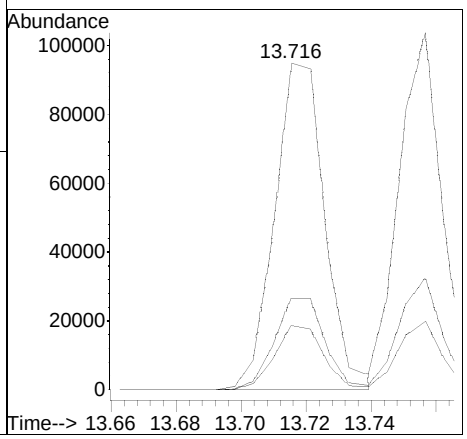


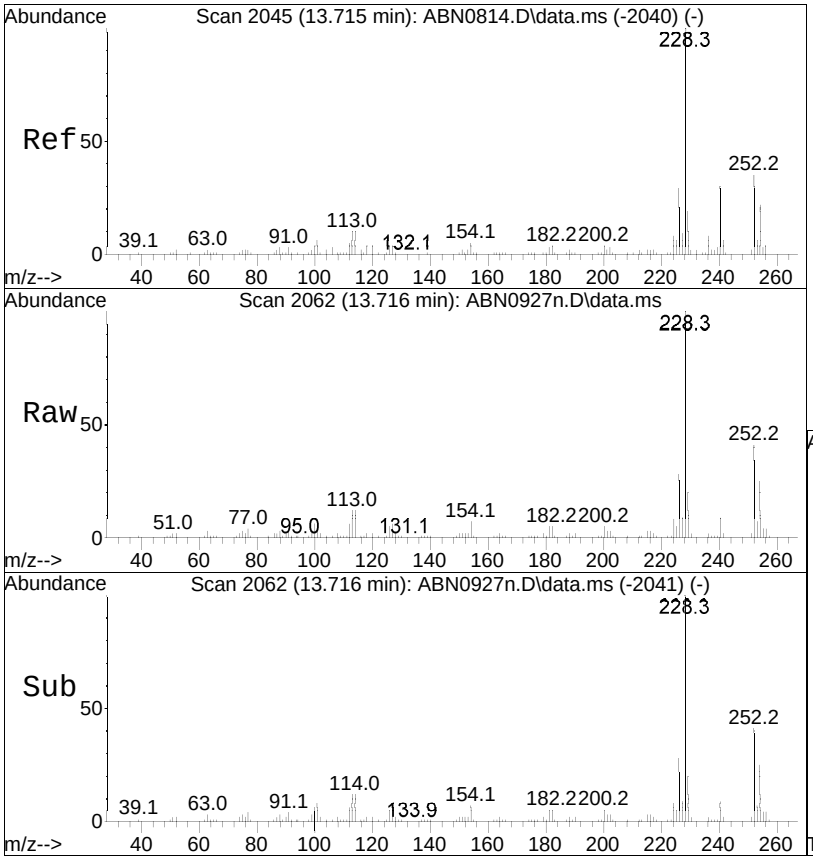


#105
Benzo(a)anthracene
Concen: 4.55 ug/ml
RT: 13.716 min Scan# 2062
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:228 Resp: 101732

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.2	33.4
229	19.5	15.6	23.4

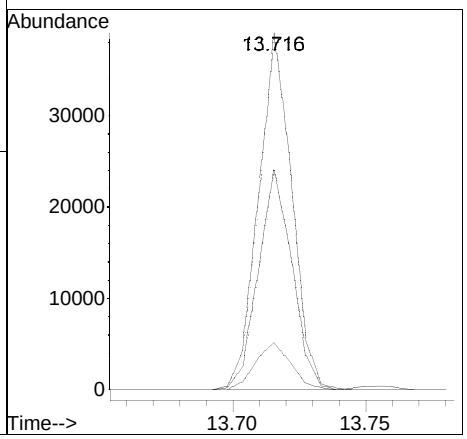


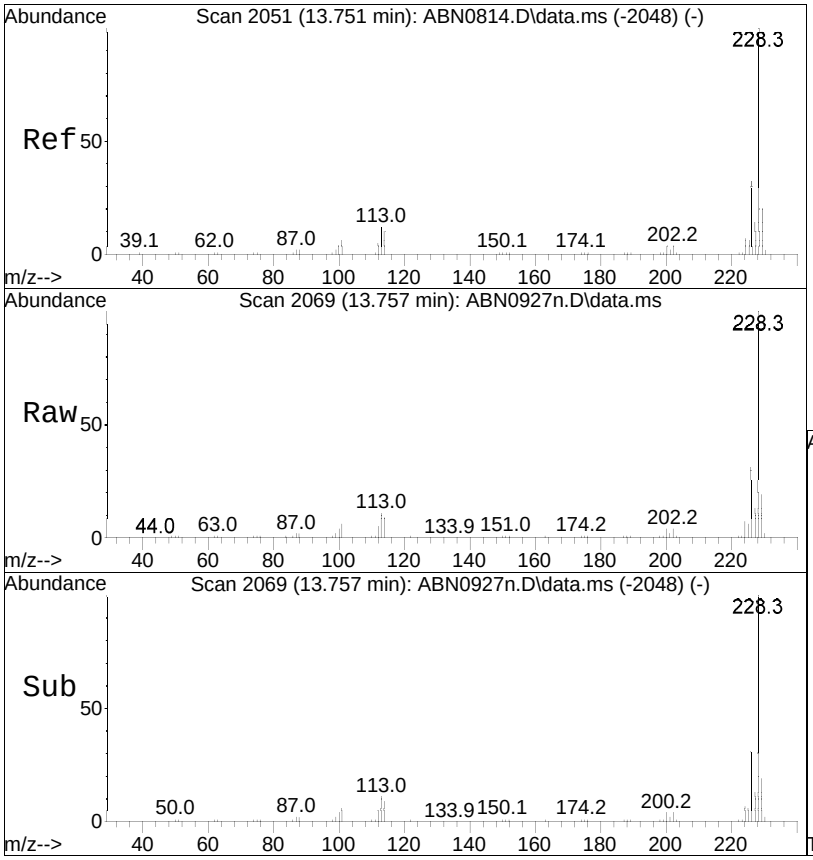


#106
3,3'-Dichlorobenzidine
Concen: 4.21 ug/ml
RT: 13.716 min Scan# 2062
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:252 Resp: 33603

Ion	Ratio	Lower	Upper
252	100		
126	14.3	14.5	21.7#
254	62.7	51.2	76.8

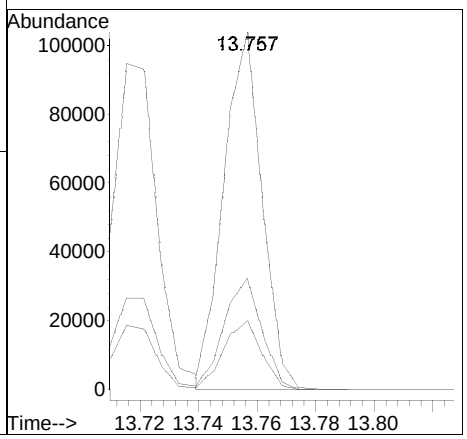


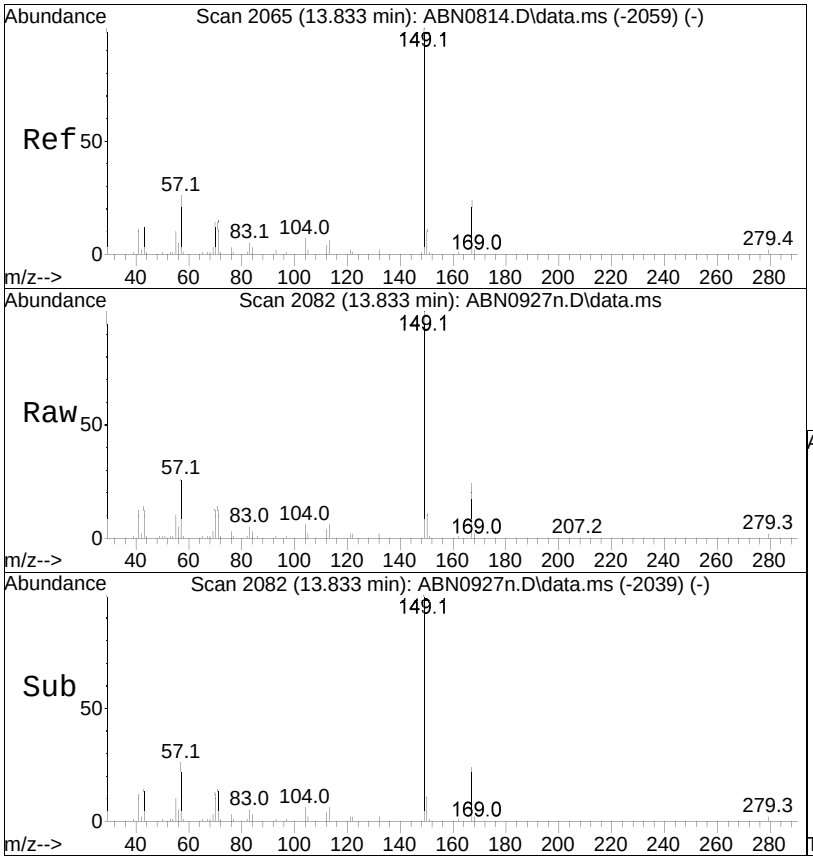


#107
Chrysene
Concen: 4.37 ug/ml
RT: 13.757 min Scan# 2069
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:228 Resp: 94369

Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.0	36.0
229	19.3	15.8	23.8

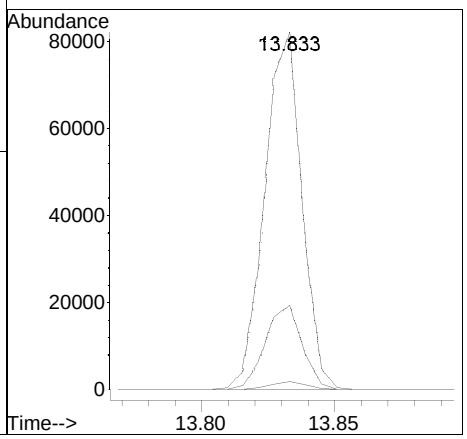


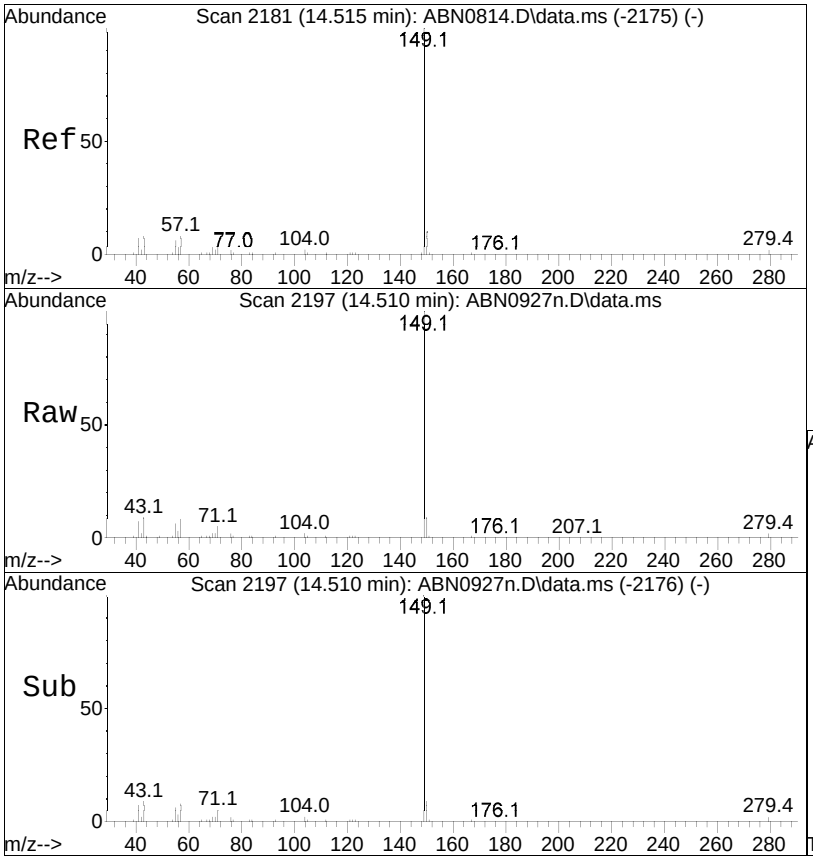


#108
Bis(2-ethylhexyl)phthalate
Concen: 6.46 ug/ml
RT: 13.833 min Scan# 2082
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:149 Resp: 78881

Ion	Ratio	Lower	Upper
149	100		
167	23.5	22.1	33.1
279	2.0	3.0	4.4#

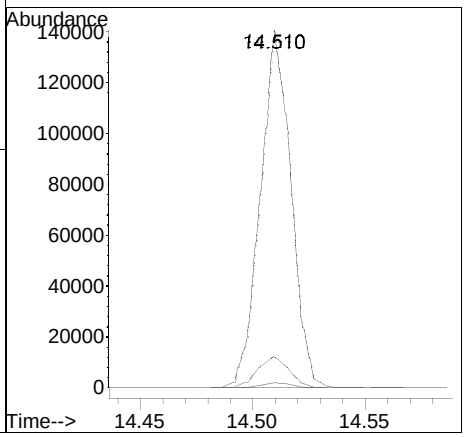


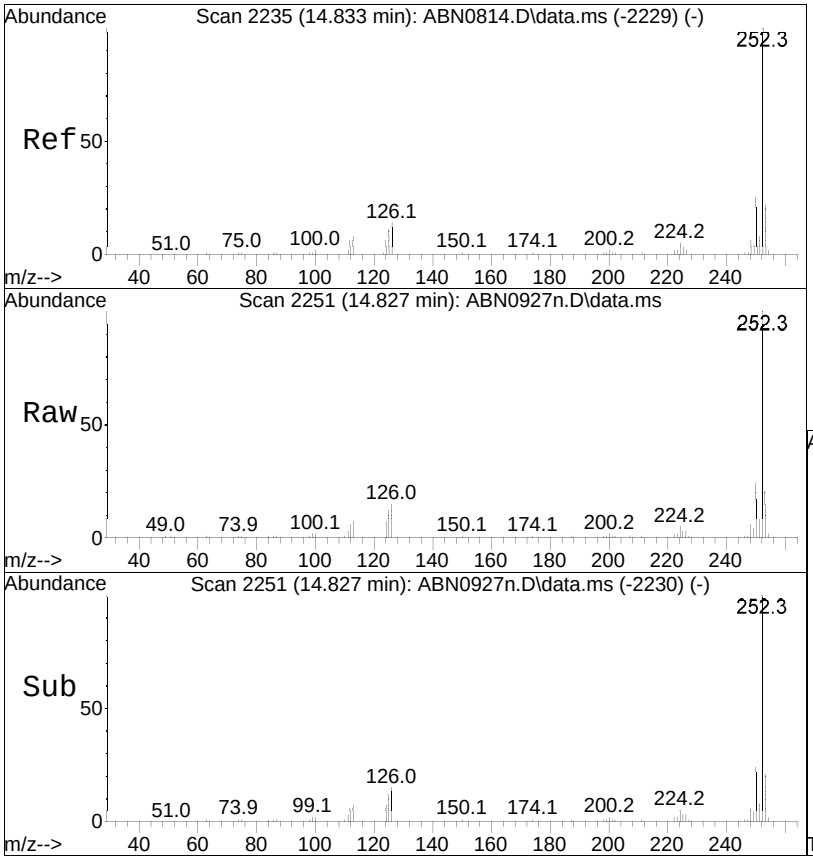


#109
Di-n-octylphthalate
Concen: 6.04 ug/ml
RT: 14.510 min Scan# 2197
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:149 Resp: 130918

Ion	Ratio	Lower	Upper
149	100		
43	9.1	18.8	28.2#
167	1.3	1.3	1.9

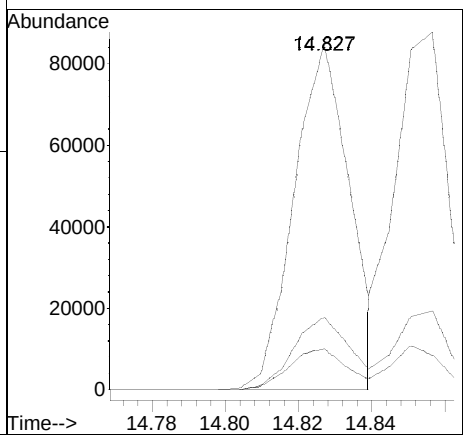


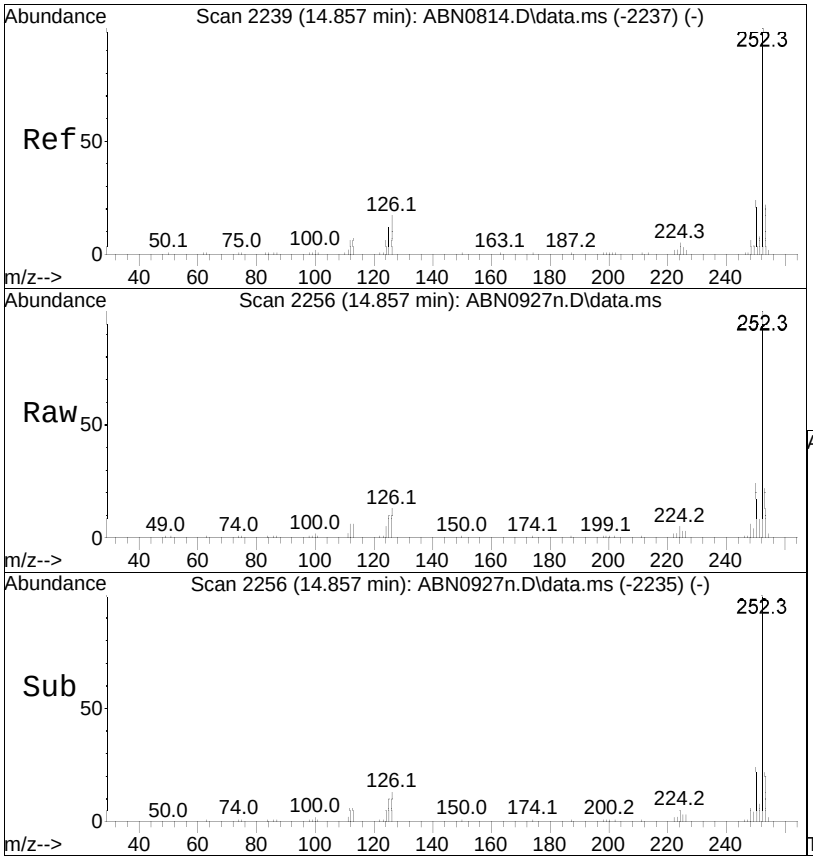


#110
Benzo(b)fluoranthene
Concen: 4.72 ug/ml
RT: 14.827 min Scan# 2251
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:252 Resp: 90890

Ion	Ratio	Lower	Upper
252	100		
125	12.5	13.3	19.9#
253	21.3	17.1	25.7

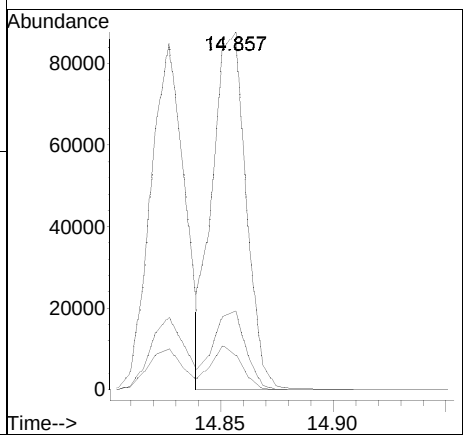


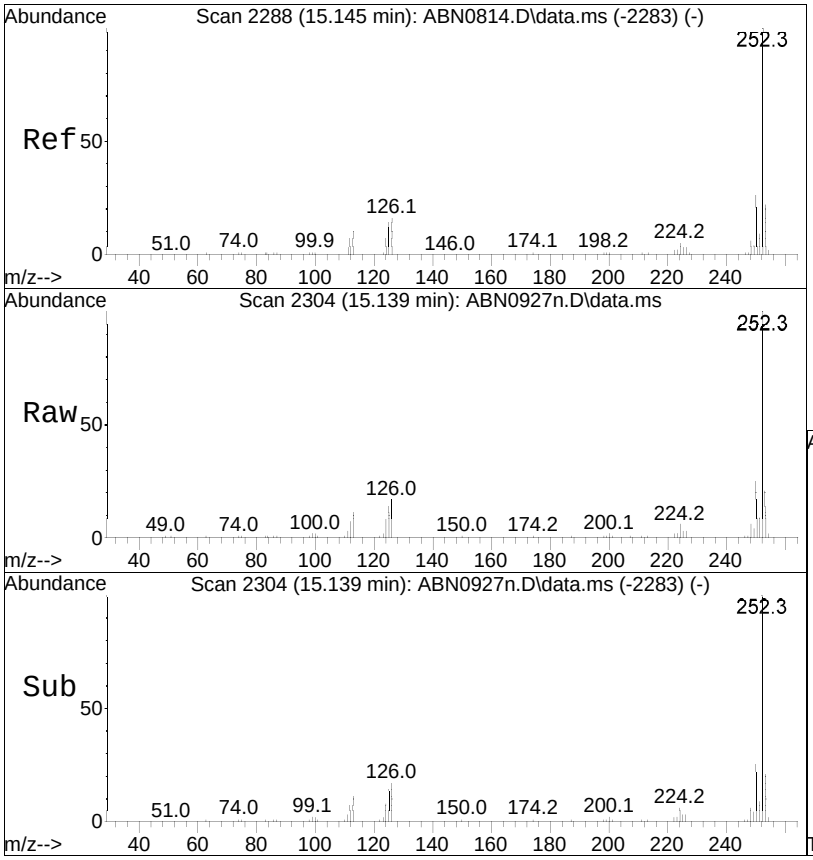


#111
Benzo(k)fluoranthene
Concen: 4.68 ug/ml
RT: 14.857 min Scan# 2256
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:252 Resp: 89970

Ion	Ratio	Lower	Upper
252	100		
125	11.2	13.0	19.6#
253	21.5	16.8	25.2

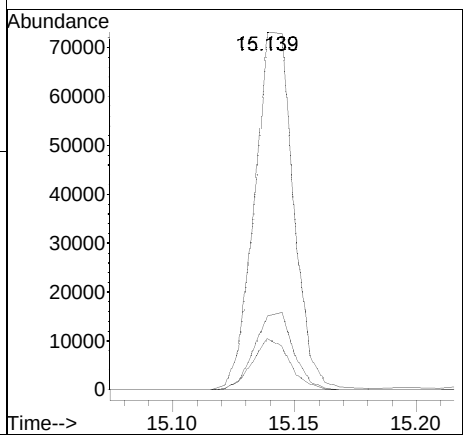


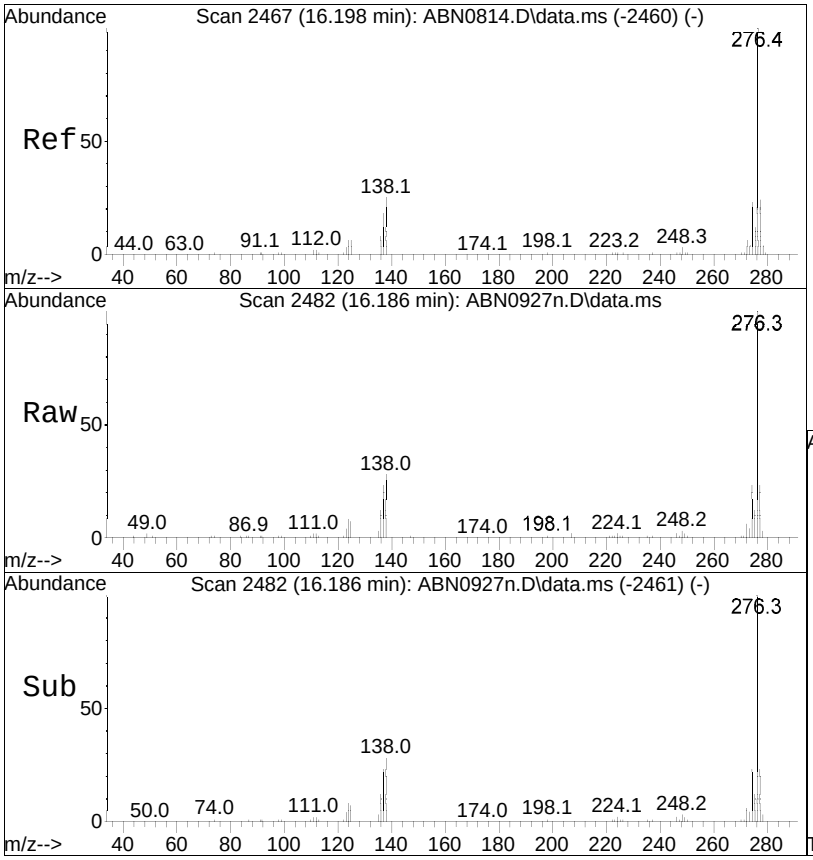


#112
Benzo(a)pyrene
Concen: 4.76 ug/ml
RT: 15.139 min Scan# 2304
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:252 Resp: 80514

Ion	Ratio	Lower	Upper
252	100		
125	13.9	14.2	21.2#
253	21.5	16.9	25.3

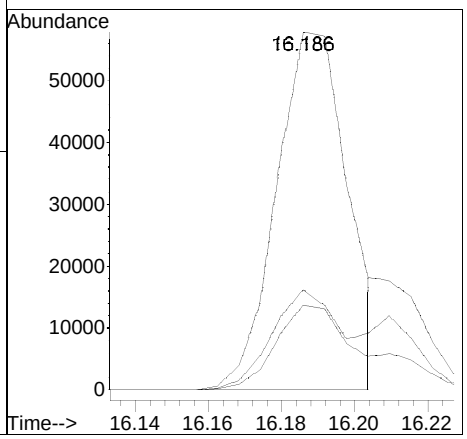


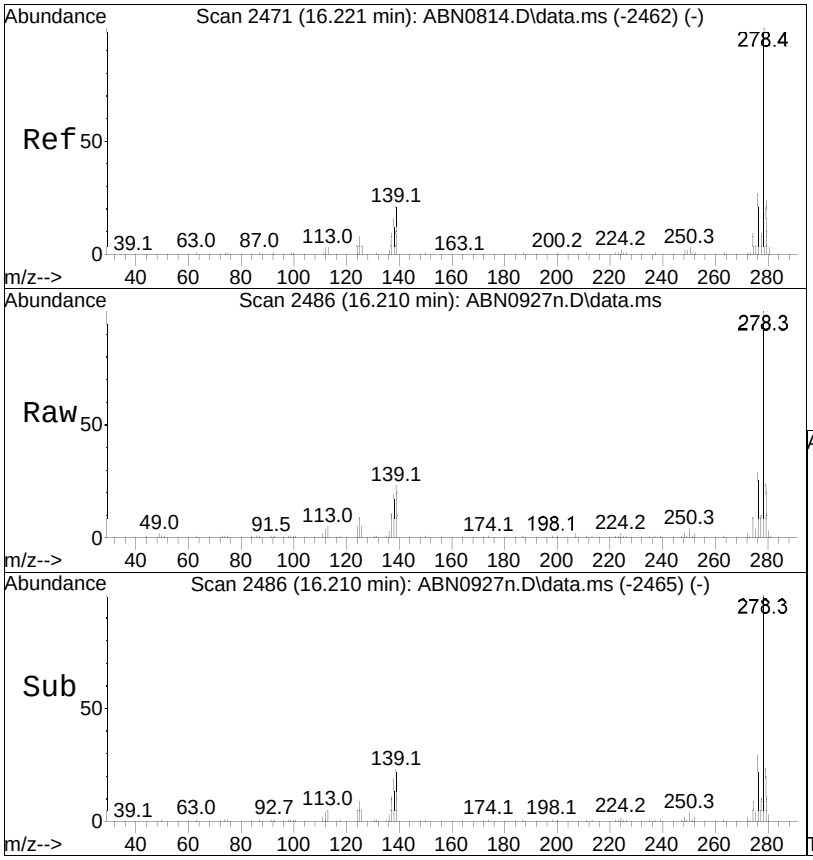


#114
Indeno(1,2,3-cd)pyrene
Concen: 4.41 ug/mL M6
RT: 16.186 min Scan# 2482
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:276 Resp: 78868

Ion	Ratio	Lower	Upper
276	100		
138	41.1	25.1	37.7#
277	30.3	18.6	28.0#

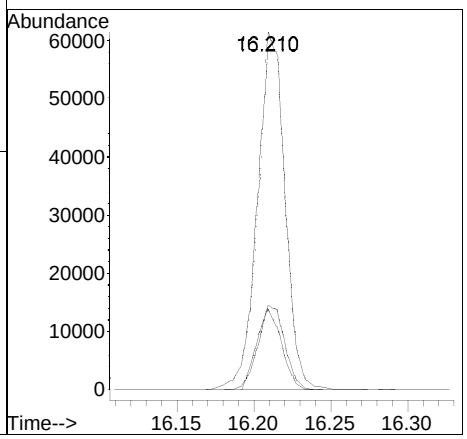


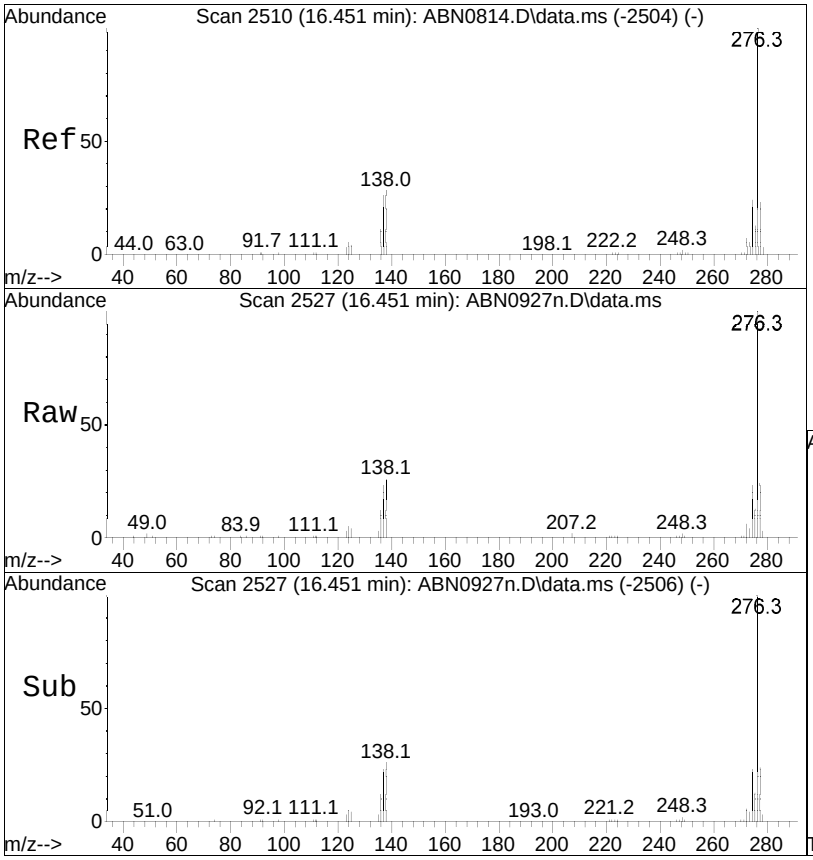


#115
Dibenzo(a,h)anthracene
Concen: 4.40 ug/ml
RT: 16.210 min Scan# 2486
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:278 Resp: 75671

Ion	Ratio	Lower	Upper
278	100		
139	20.7	20.8	31.2#
279	23.2	18.3	27.5

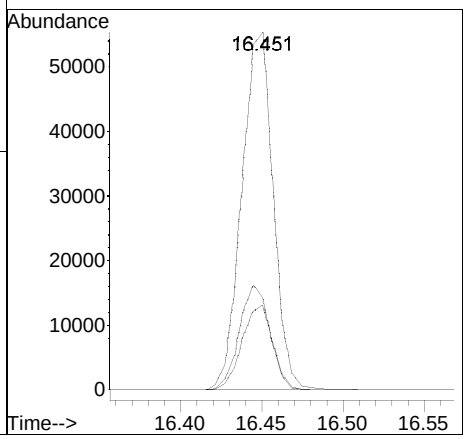




#116
Benzo(ghi)perylene
Concen: 4.65 ug/ml
RT: 16.451 min Scan# 2527
Delta R.T. 0.000 min
Lab File: ABN0927n.D
Acq: 27 Sep 2024 11:28 pm

Tgt Ion:276 Resp: 73941

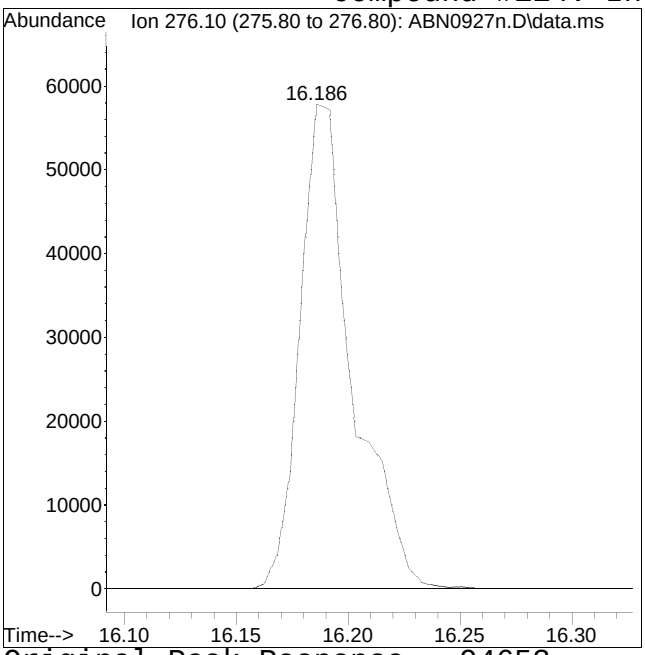
Ion	Ratio	Lower	Upper
276	100		
138	28.5	29.2	43.8#
277	23.4	18.8	28.2



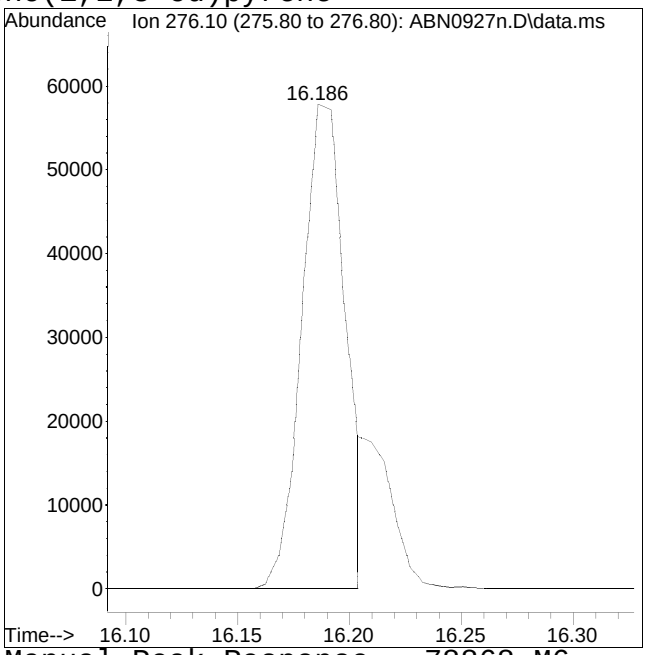
Manual Integration Report

Data Path : I:\8270\SV107\240927NRVT\ QMethod : FS240730SV107RVT.m
Data File : ABN0927n.D Operator : SV107:gmr
Date Inj'd : 9/27/2024 11:28 pm Instrument : SV107
Sample : WG1977425-3,32,,ABN RVT CCQuant Date : 9/27/2024 11:53 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 94653



Manual Peak Response = 78868 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240927NRVT\
Data File : AP90927n.D
Acq On : 27 Sep 2024 11:54 pm
Operator : SV107:gmr
Sample : WG1977425-4,32,,AP9 RVT CCV Lot #10909
Misc : WG1977425,,ical21360
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 28 00:23:00 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:23:56 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	79	0.00
28	T	Benzaldehyde		1.145	1.163	-1.6	84	0.00
29	T	Acetophenone		2.032	1.990	2.1	82	0.00
30	T	m-Toluidine		1.860	1.922	-3.3	80	0.00
31	T	2-Chloroaniline		1.773	1.725	2.7	77	0.00
55	I	IS2_Naphthalene-d8		1.000	1.000	0.0	82	0.00
56	T	a-Terpineol		0.297	0.330	-11.1	88	0.00
57	T	3-Chloroaniline		0.163	0.168	-3.1	83	0.00
58	T	2,6-Dichlorophenol		0.319	0.317	0.6	78	0.00
59	T	1-chloro-2-nitrobenzene		0.155	0.158	-1.9	84	0.00
60	T	Caprolactam	*	5.000	5.286	-5.7	98	0.00
61	T	1,2,4,5-Tetrachlorobenzene		0.444	0.381	14.2	73	0.00
62	T	Biphenyl		1.036	0.889	14.2	74	0.00
83	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	83	0.00
84	T	Dichloran	*	5.000	4.621	7.6	96	0.00
85	T	Pentachloronitrobenzene	*	5.000	5.213	-4.3	103	0.00
98	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	88	0.00
99	T	Diphenamid		0.507	0.545	-7.5	99	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : AP90927n.D
Acq On : 27 Sep 2024 11:54 pm
Operator : SV107:gmr
Sample : WG1977425-4,32,,AP9 RVT CCV Lot #10909
Misc : WG1977425,,ical21360
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 28 00:23:00 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:23:56 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.475	152	12952	4.000	ug/ml		0.00
55) IS2_Naphthalene-d8	7.892	136	49162	4.000	ug/ml		0.00
83) IS2_Acenaphthene-d10	9.651	164	29254	4.000	ug/ml		0.00
98) IS2_Phenanthrene-d10	11.092	188	61619	4.000	ug/ml	#	0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.904	105	18822	5.079	ug/ml		94
29) Acetophenone	6.963	105	32219	4.898	ug/ml	#	84
30) m-Toluidine	7.063	106	31122	5.168	ug/ml		94
31) 2-Chloroaniline	7.469	127	27924	4.865	ug/ml		95
56) a-Terpineol	7.957	59	20254	5.551	ug/ml		88
57) 3-Chloroaniline	7.975	65	10340	5.174	ug/ml		82
58) 2,6-Dichlorophenol	7.998	162	19472	4.959	ug/ml		92
59) 1-chloro-2-nitrobenzene	8.269	111	9708	5.096	ug/ml	#	1
60) Caprolactam	8.310	55	11119	5.286	ug/ml	#	80
61) 1,2,4,5-Tetrachloroben...	8.804	216	23406	4.288	ug/ml		99
62) Biphenyl	9.104	154	54635	4.292	ug/ml		98
84) Dichloran	10.786	206	6971	4.621	ug/ml	#	78
85) Pentachloronitrobenzene	10.933	237	7542	5.213	ug/ml	#	84
99) Diphenamid	11.992	167	41961	5.378	ug/ml	#	80

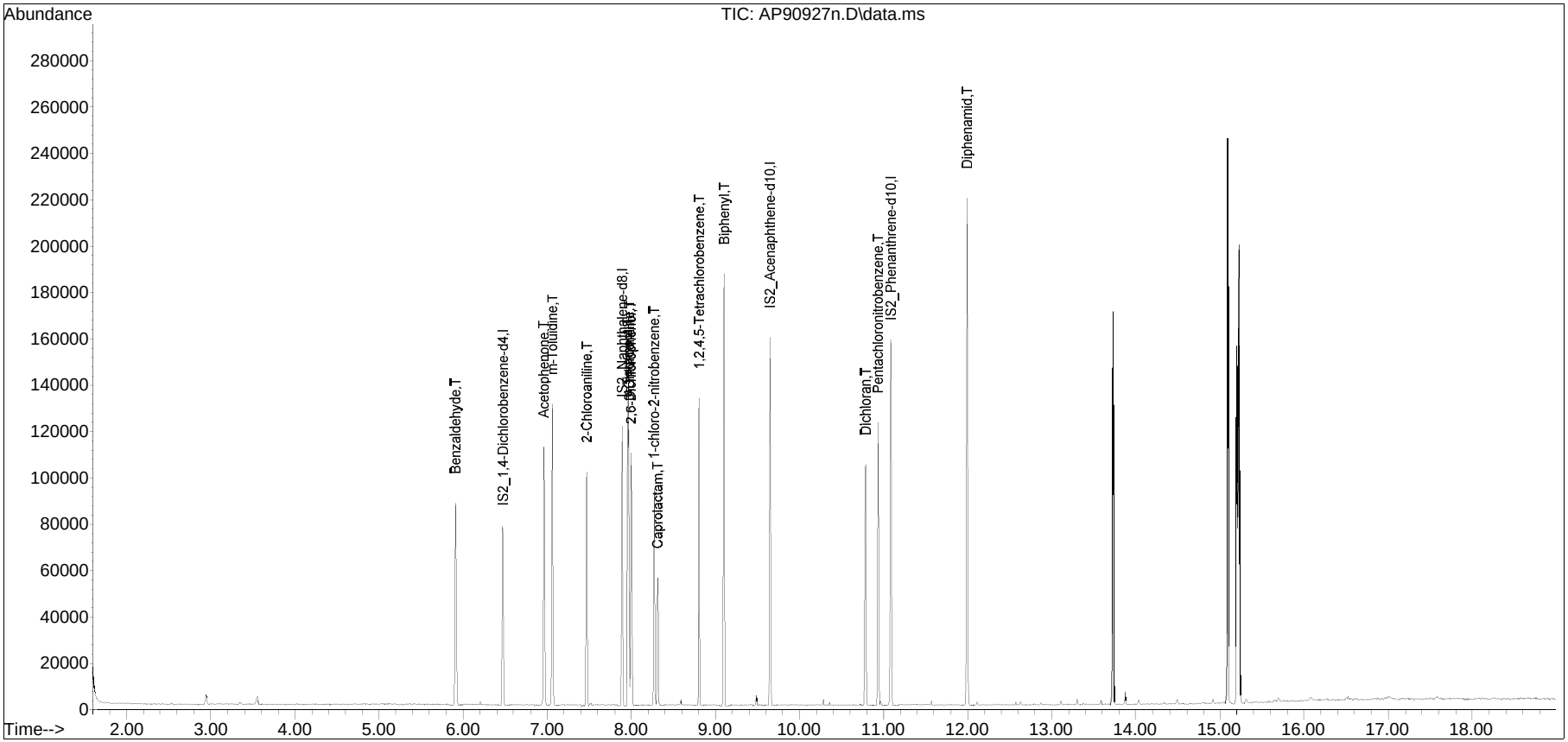
(#) = qualifier out of range (m) = manual integration (+) = signals summed

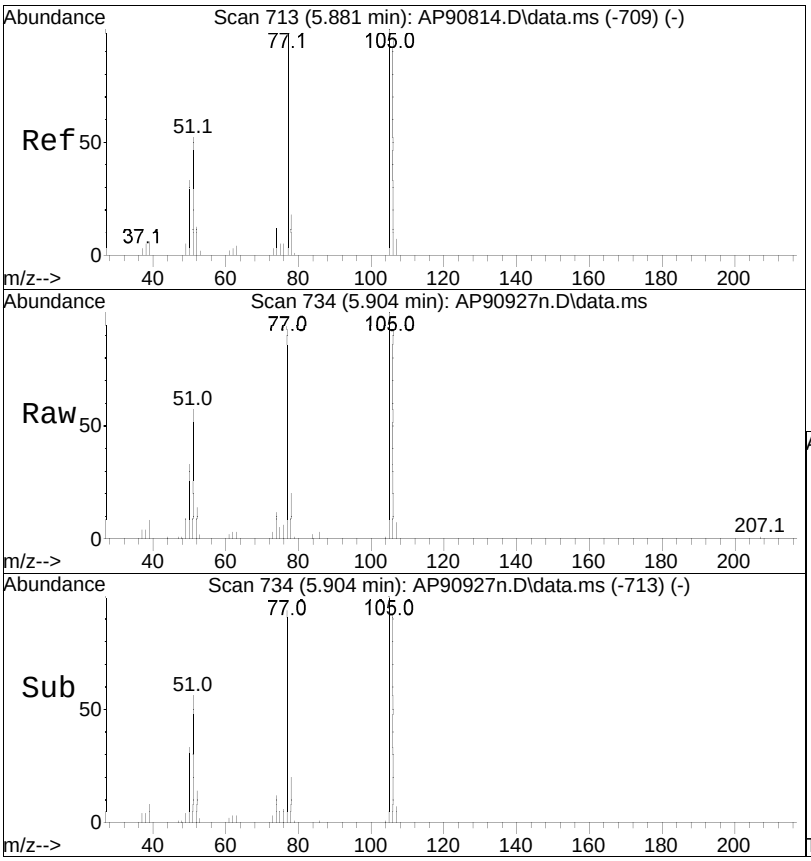
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : AP90927n.D
Acq On : 27 Sep 2024 11:54 pm
Operator : SV107:gmr
Sample : WG1977425-4,32,,AP9 RVT CCV Lot #10909
Misc : WG1977425,,ical21360
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 28 00:23:00 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:23:56 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

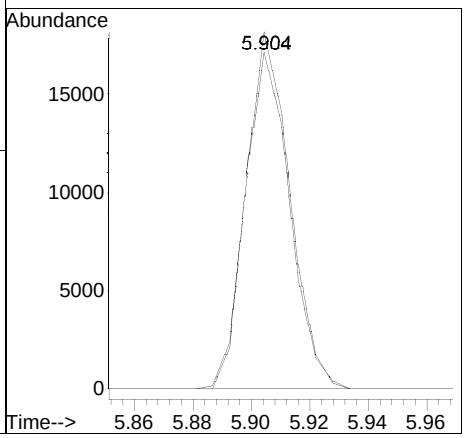


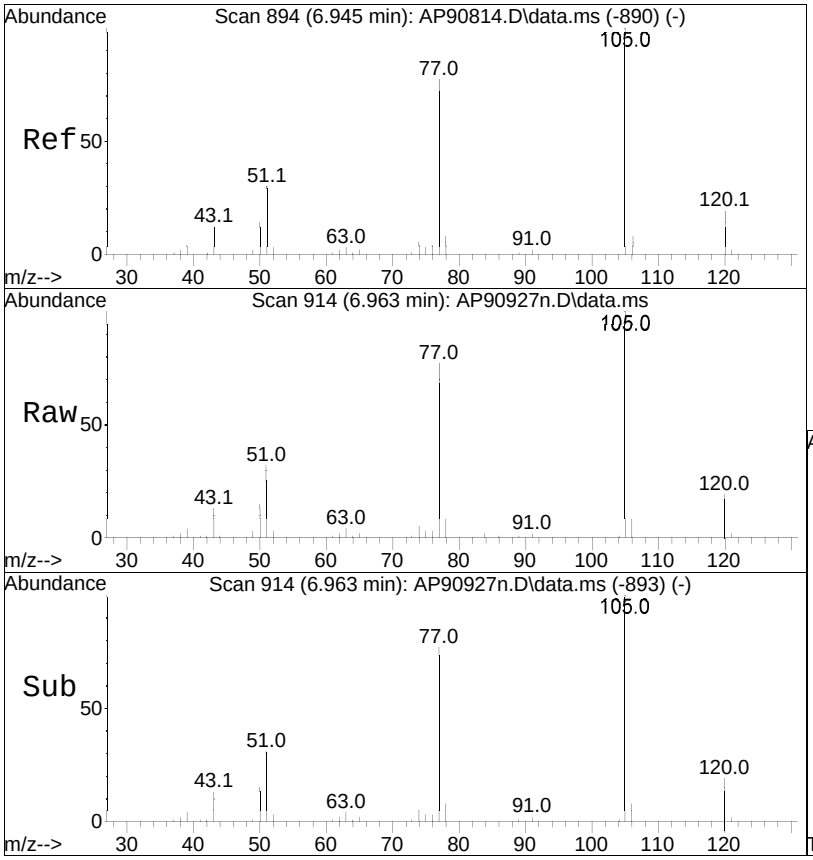


#28
Benzaldehyde
Concen: 5.08 ug/ml
RT: 5.904 min Scan# 734
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:105 Resp: 18822

Ion	Ratio	Lower	Upper
105	100		
77	96.3	82.2	123.4

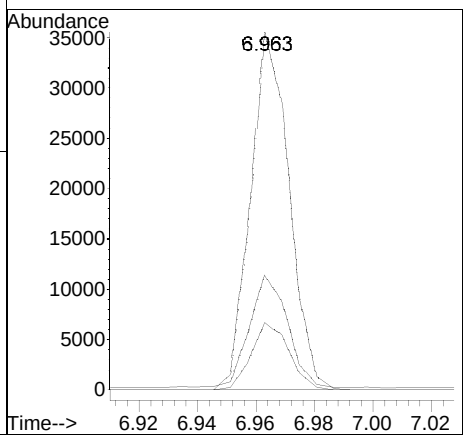


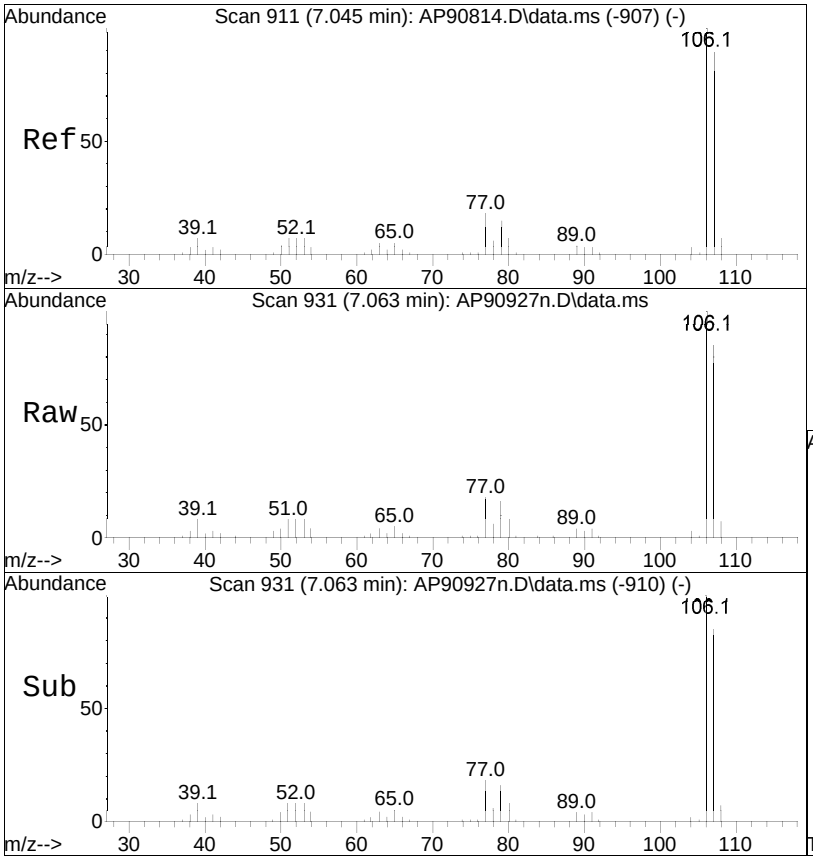


#29
Acetophenone
Concen: 4.90 ug/ml
RT: 6.963 min Scan# 914
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:105 Resp: 32219

Ion	Ratio	Lower	Upper
105	100		
120	18.6	20.5	30.7#
51	32.1	34.9	52.3#

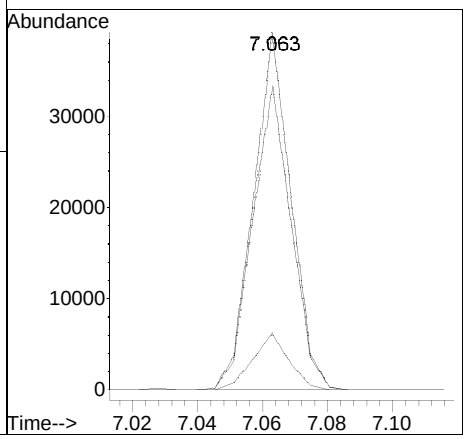


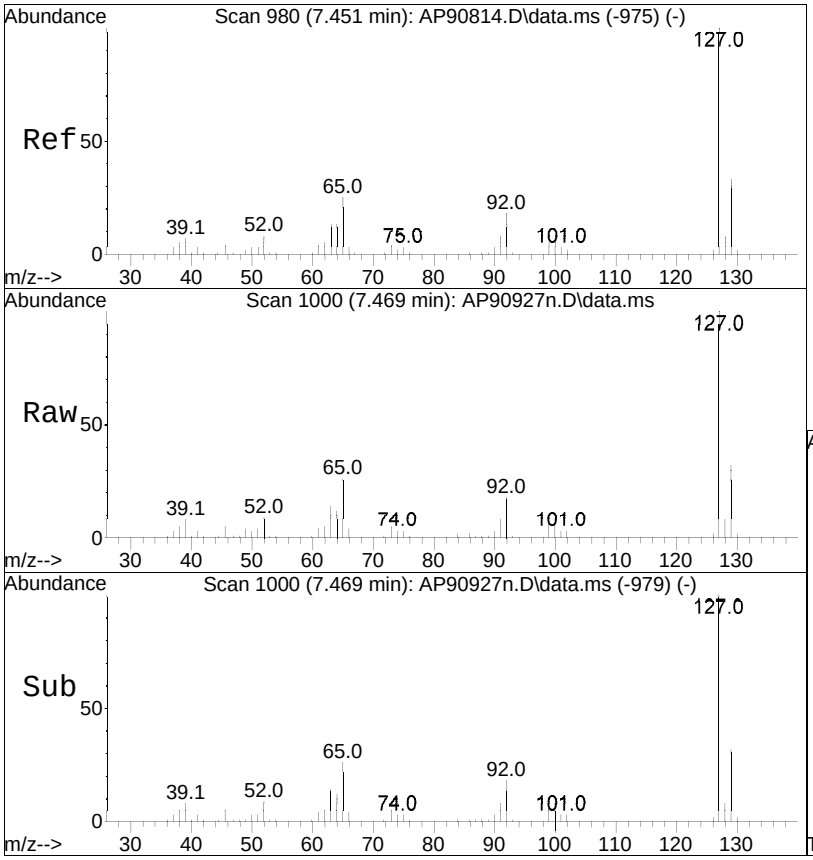


#30
m-Toluidine
Concen: 5.17 ug/ml
RT: 7.063 min Scan# 931
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:106 Resp: 31122

Ion	Ratio	Lower	Upper
106	100		
107	87.7	75.7	113.5
79	15.4	11.8	17.8

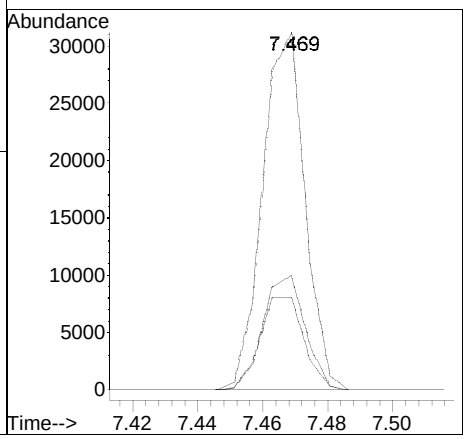


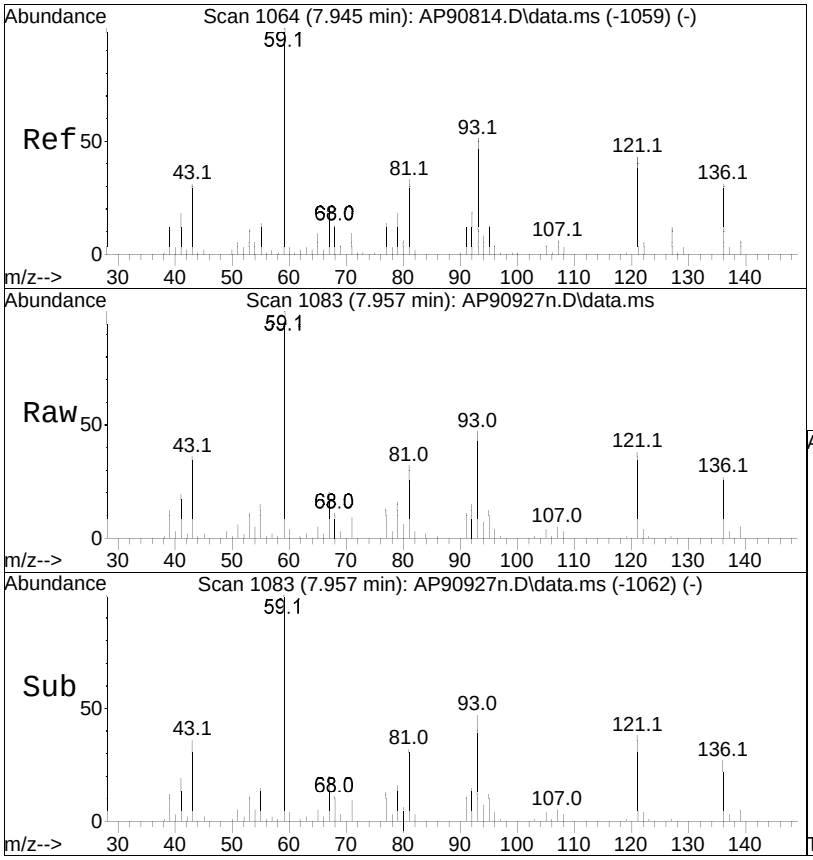


#31
2-Chloroaniline
Concen: 4.87 ug/ml
RT: 7.469 min Scan# 1000
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:127 Resp: 27924

Ion	Ratio	Lower	Upper
127	100		
129	32.2	25.9	38.9
65	27.3	26.3	39.5

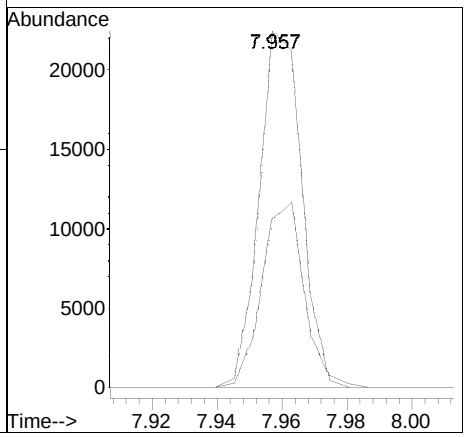


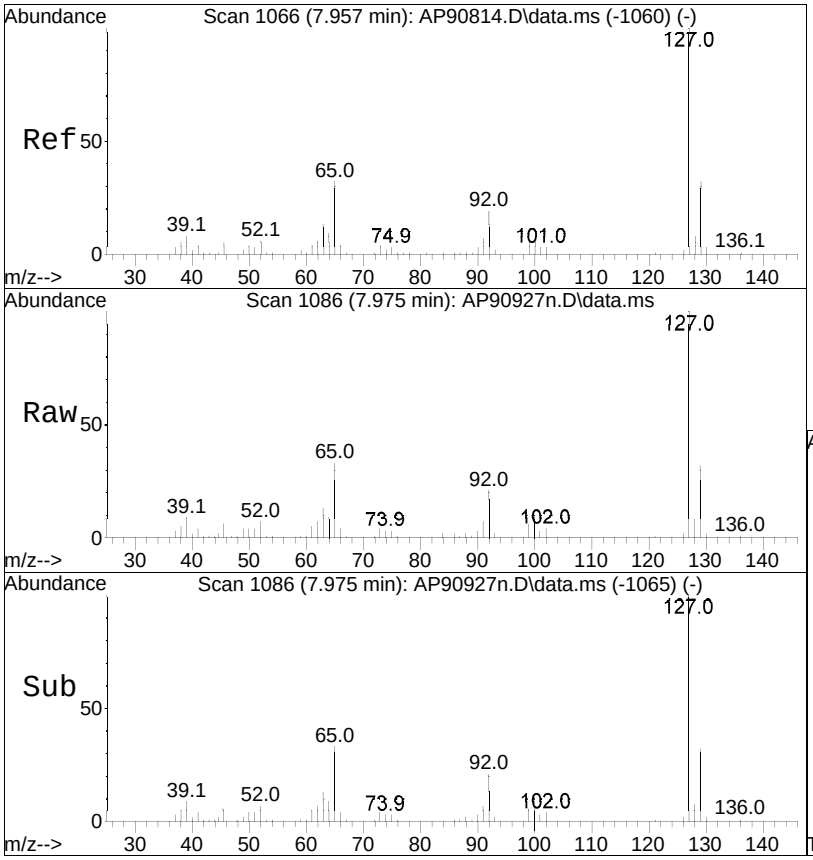


#56
a-Terpineol
Concen: 5.55 ug/ml
RT: 7.957 min Scan# 1083
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion: 59 Resp: 20254

Ion	Ratio	Lower	Upper
59	100		
93	52.2	35.6	53.4

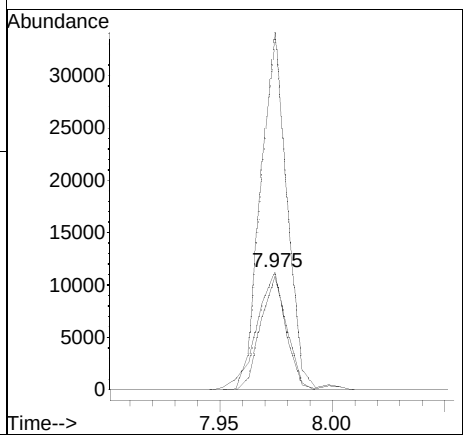


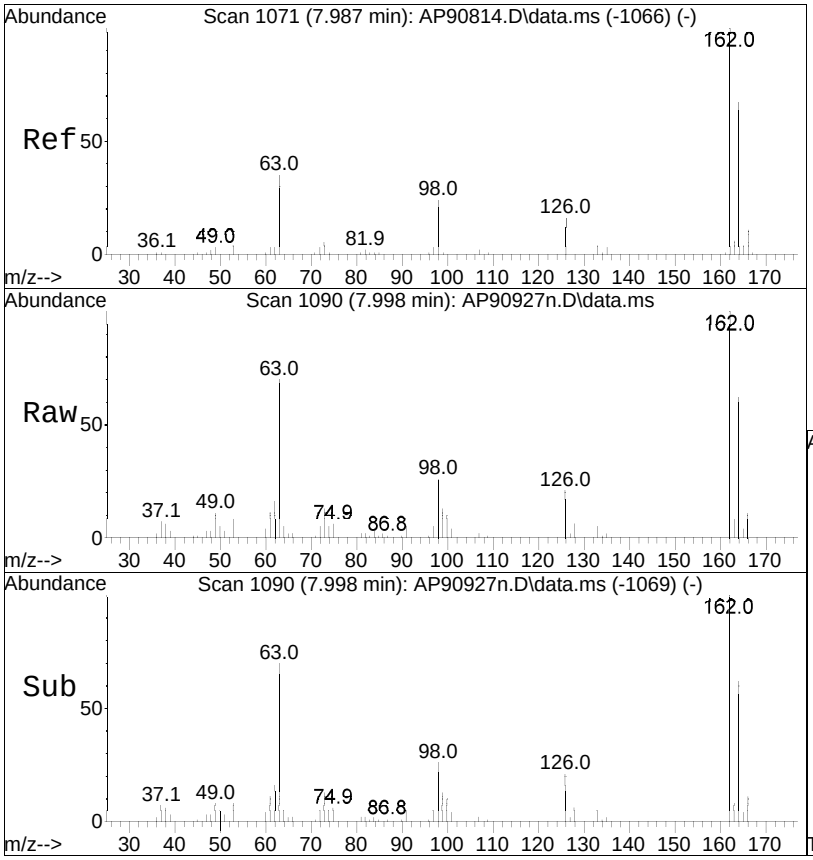


#57
3-Chloroaniline
Concen: 5.17 ug/ml
RT: 7.975 min Scan# 1086
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion: 65 Resp: 10340

Ion	Ratio	Lower	Upper
65	100		
127	265.8	243.2	364.8
129	84.6	78.8	118.2

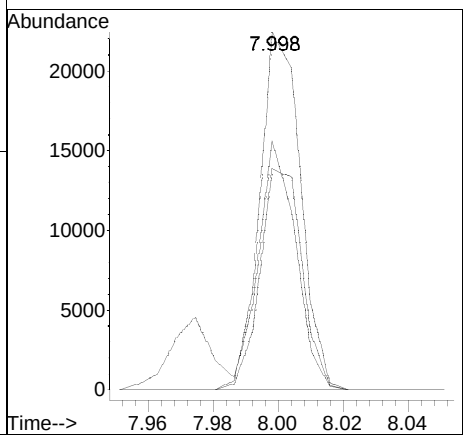


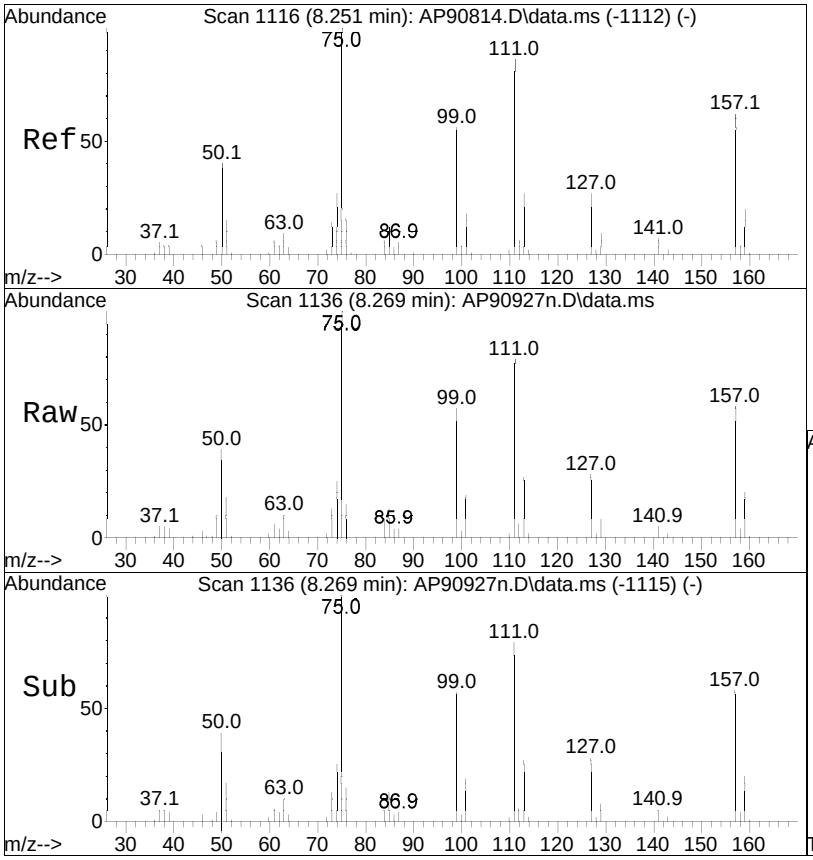


#58
2,6-Dichlorophenol
Concen: 4.96 ug/ml
RT: 7.998 min Scan# 1090
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:162 Resp: 19472

Ion	Ratio	Lower	Upper
162	100		
164	63.7	51.1	76.7
63	63.2	60.8	91.2

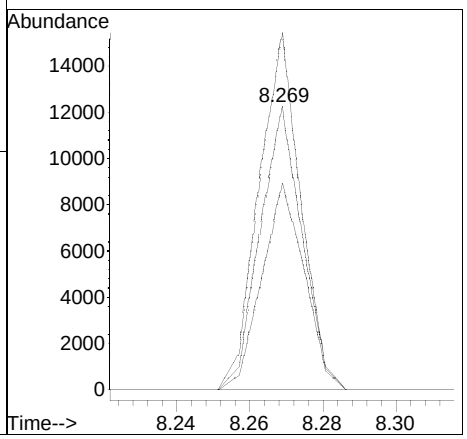


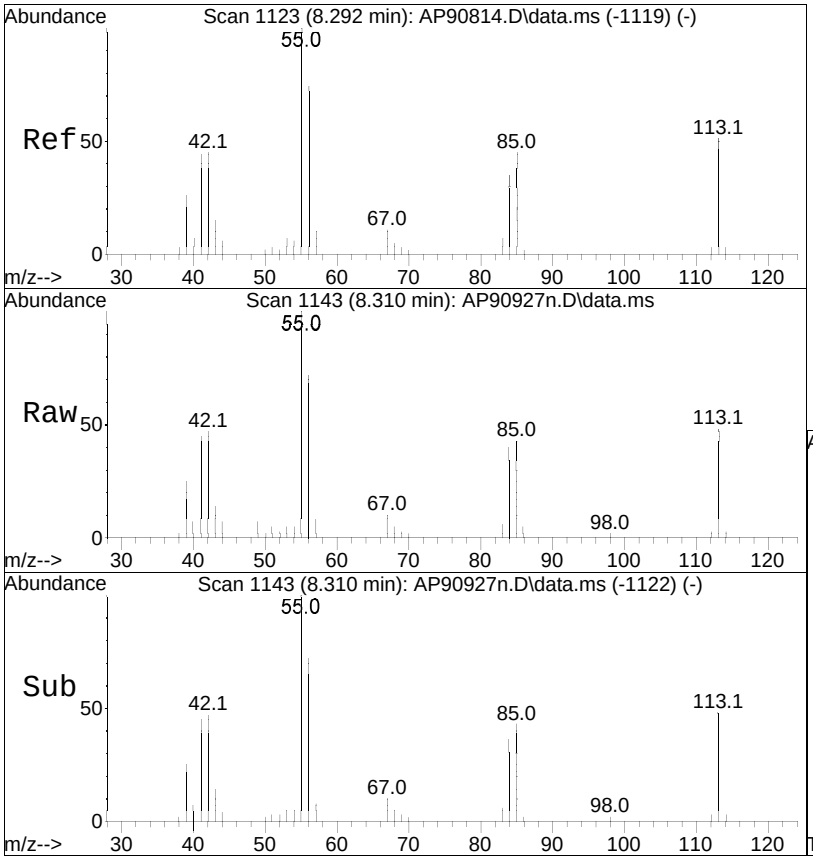


#59
1-chloro-2-nitrobenzene
Concen: 5.10 ug/ml
RT: 8.269 min Scan# 1136
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:111 Resp: 9708

Ion	Ratio	Lower	Upper
111	100		
157	73.8	0.0	0.0#
75	125.0	28.2	42.2#

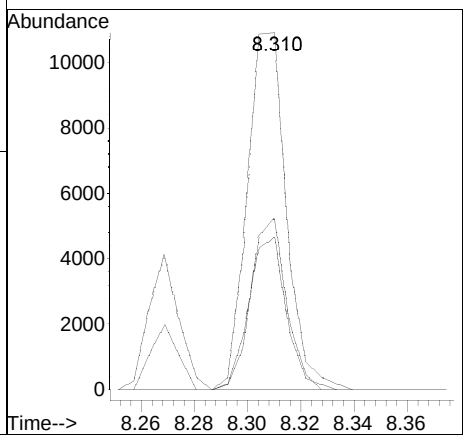


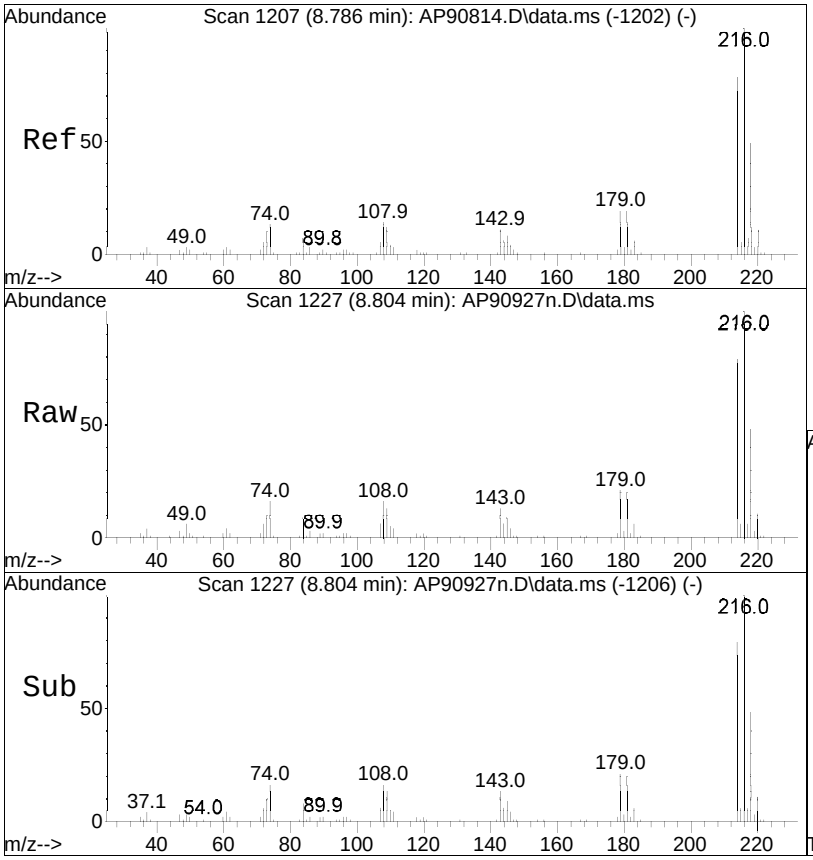


#60
Caprolactam
Concen: 5.29 ug/ml
RT: 8.310 min Scan# 1143
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion: 55 Resp: 11119

Ion	Ratio	Lower	Upper
55	100		
85	41.2	19.8	29.6#
113	43.8	29.6	44.4

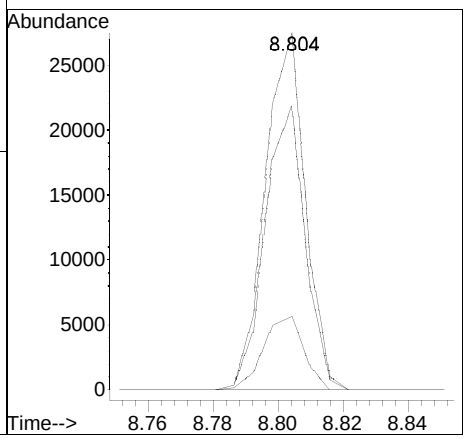


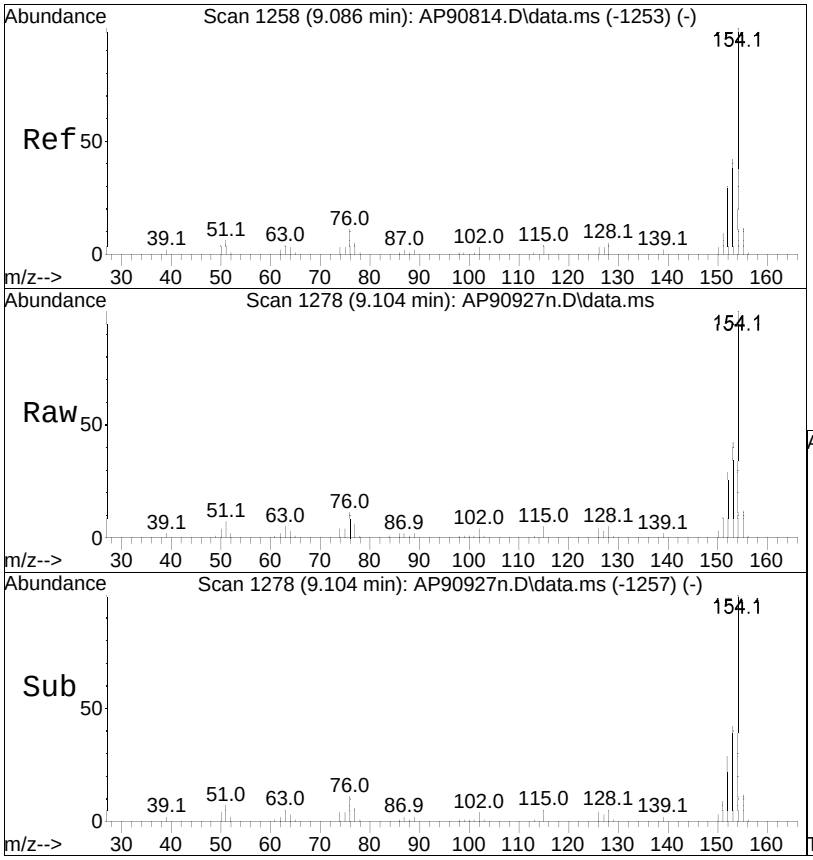


#61
1,2,4,5-Tetrachlorobenzene
Concen: 4.29 ug/ml
RT: 8.804 min Scan# 1227
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:216 Resp: 23406

Ion	Ratio	Lower	Upper
216	100		
214	79.7	63.7	95.5
179	21.0	19.0	28.6

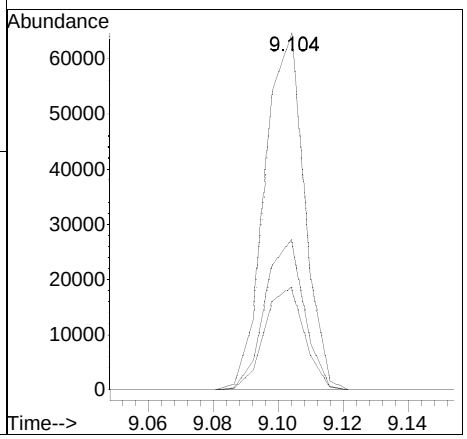


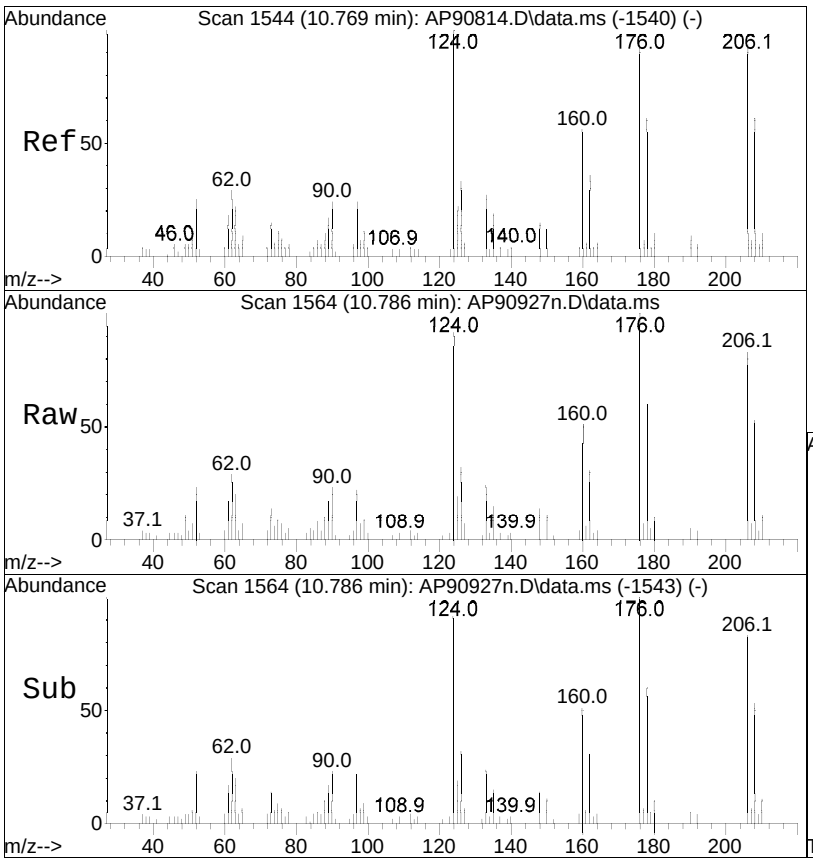


#62
Biphenyl
Concen: 4.29 ug/ml
RT: 9.104 min Scan# 1278
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:154 Resp: 54635

Ion	Ratio	Lower	Upper
154	100		
153	41.7	32.3	48.5
152	29.2	22.5	33.7

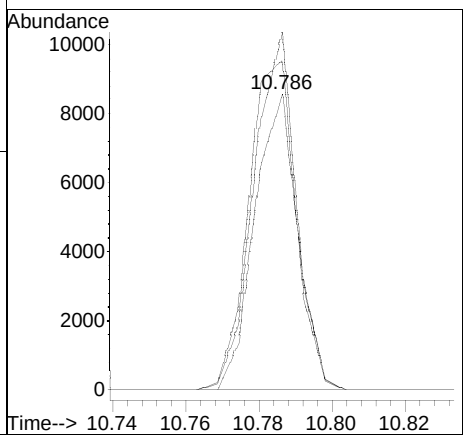


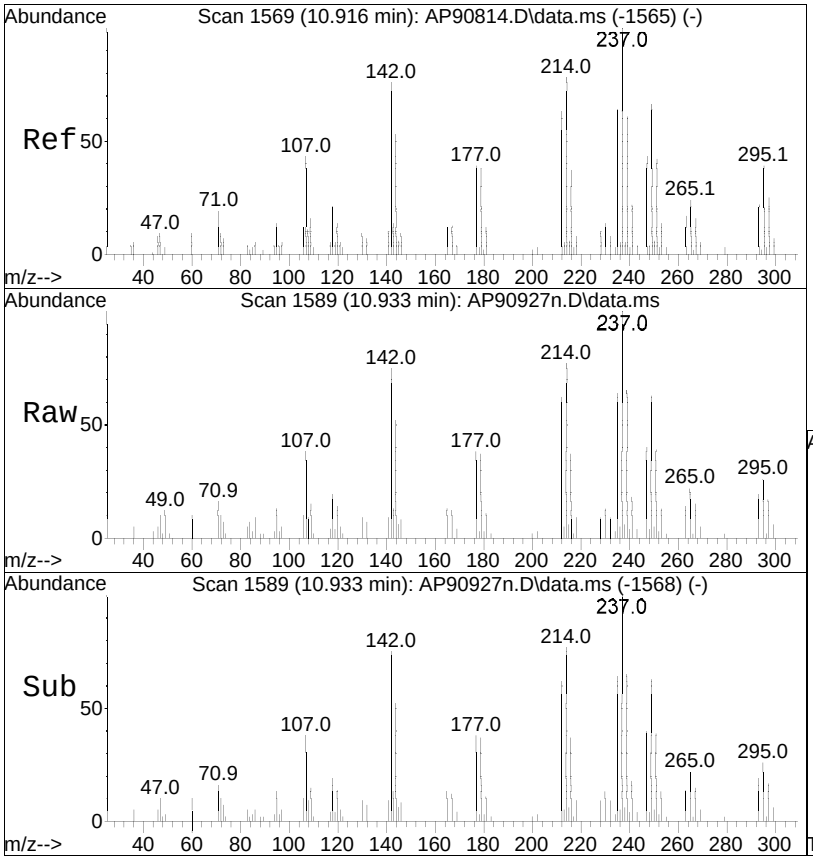


#84
Dichloran
Concen: 4.62 ug/ml
RT: 10.786 min Scan# 1564
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:206 Resp: 6971

Ion	Ratio	Lower	Upper
206	100		
176	119.3	104.6	157.0
124	121.5	130.5	195.7#

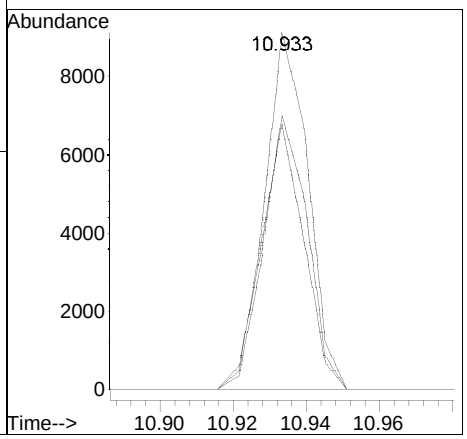


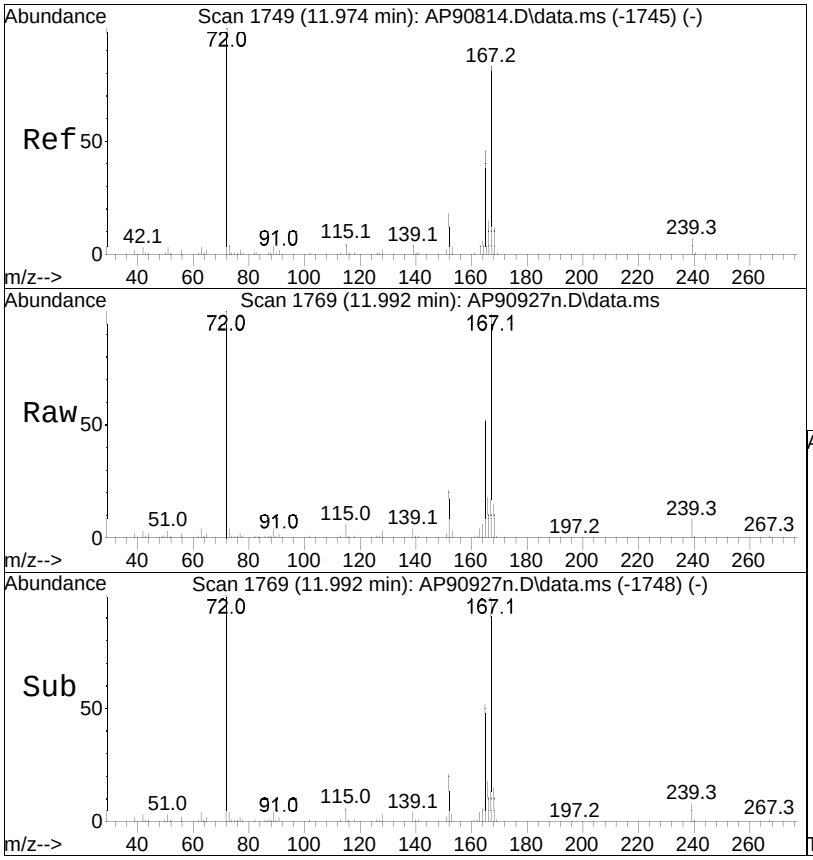


#85
Pentachloronitrobenzene
Concen: 5.21 ug/ml
RT: 10.933 min Scan# 1589
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:237 Resp: 7542

Ion	Ratio	Lower	Upper
237	100		
142	72.7	77.0	115.4#
214	76.8	58.2	87.4

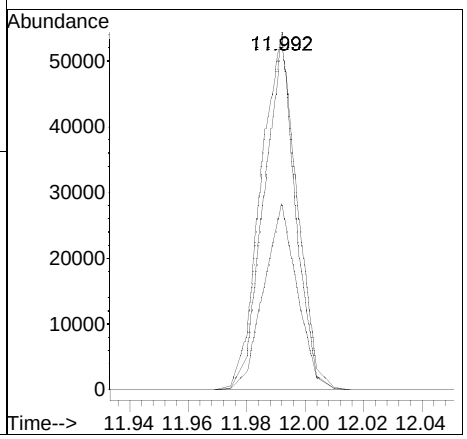




#99
Diphenamid
Concen: 5.38 ug/ml
RT: 11.992 min Scan# 1769
Delta R.T. 0.000 min
Lab File: AP90927n.D
Acq: 27 Sep 2024 11:54 pm

Tgt Ion:167 Resp: 41961

Ion	Ratio	Lower	Upper
167	100		
72	104.4	109.7	164.5#
165	53.2	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV107\240927NRVT\	QMethod	: FS240730SV107RVT.m
Data File	: AP90927n.D	Operator	: SV107:gmr
Date Inj'd	: 9/27/2024 11:54 pm	Instrument	: SV107
Sample	: WG1977425-4,32,,AP9 RVT CC	Quant Date	: 9/28/2024 0:24 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240927NRVT\
Data File : ADP0927n.D
Acq On : 28 Sep 2024 12:19 am
Operator : SV107:gmr
Sample : WG1977425-5,32,,ADP RVT CCV Lot #10751
Misc : WG1977425,,ical21360
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 28 00:49:07 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:06 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	72	0.00
33		1,4-Dioxane		0.459	0.432	5.9	78	0.00
34	T	n-Decane		1.388	1.578	-13.7	90	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	79	0.00
87	T	Atrazine		0.315	0.372	-18.1	93	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	82	0.00
101	T	n-Octadecane		0.381	0.516	-35.4#	114	0.00
102	T	Parathion	*	5.000	6.955	-39.1#	142	0.00
103	T	3,3'-Dimethylbenzidine	*	5.000	4.480	10.4	96	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : ADP0927n.D
Acq On : 28 Sep 2024 12:19 am
Operator : SV107:gmr
Sample : WG1977425-5,32,,ADP RVT CCV Lot #10751
Misc : WG1977425,,ical21360
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 28 00:49:07 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:06 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
32)	IS3_1,4-Dichlorobenzen...	6.469	152	12831	4.000	ug/ml		0.00
86)	IS3_Acenaphthene-d10	9.651	164	29357	4.000	ug/ml		0.00
100)	IS3_Phenanthrene-d10	11.092	188	61933	4.000	ug/ml	#	0.00
	System Monitoring Compounds							
	Target Compounds							Qvalue
33)	1,4-Dioxane	1.916	88	6936	4.707	ug/ml	#	69
34)	n-Decane	6.363	57	25312	5.683	ug/ml	#	46
87)	Atrazine	10.857	200	13646	5.910	ug/ml		95
101)	n-Octadecane	11.063	57	39973	6.770	ug/ml	#	1
102)	Parathion	11.869	109	8817	6.955	ug/ml	#	95
103)	3,3'-Dimethylbenzidine	13.157	212	48879	4.480	ug/ml		98

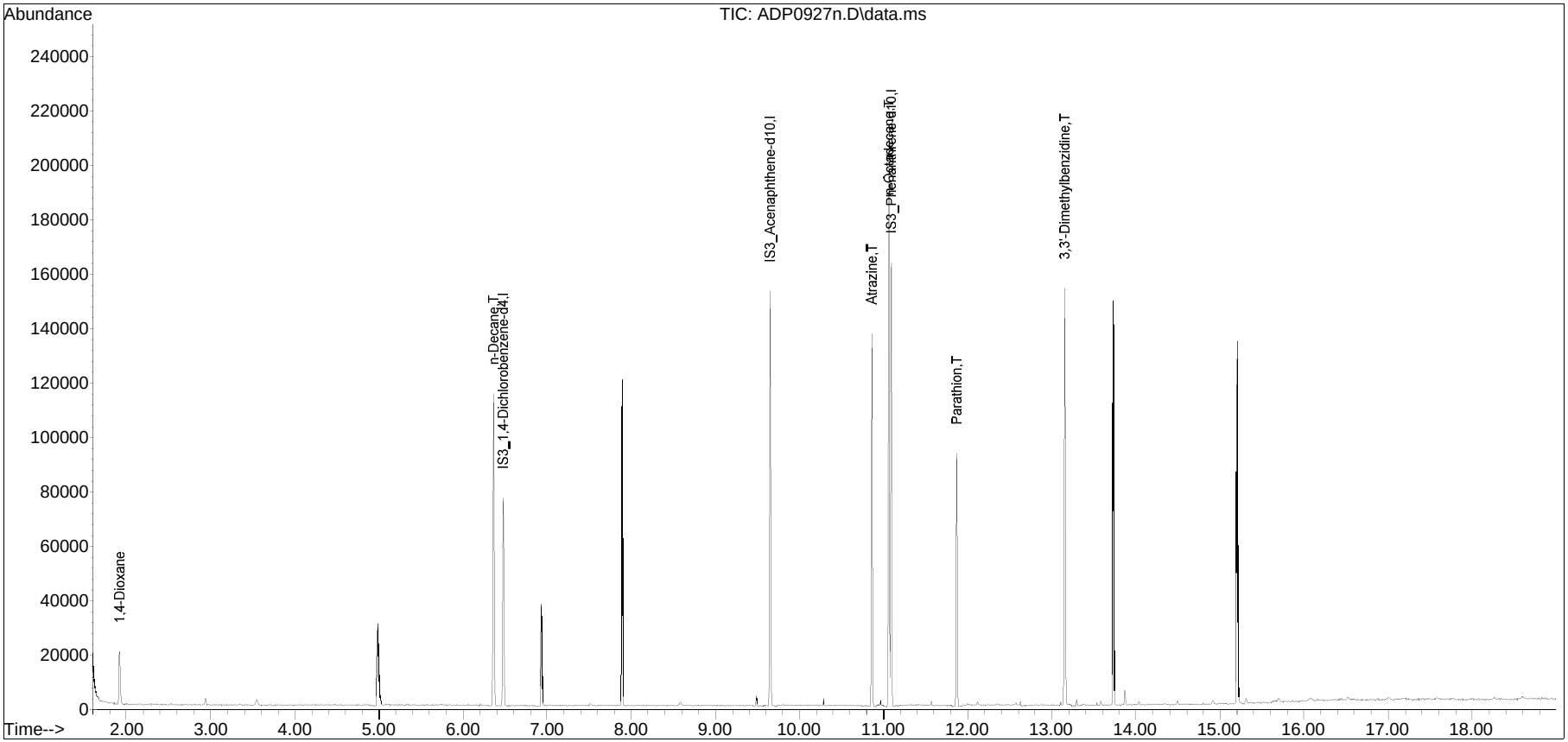
(#) = qualifier out of range (m) = manual integration (+) = signals summed

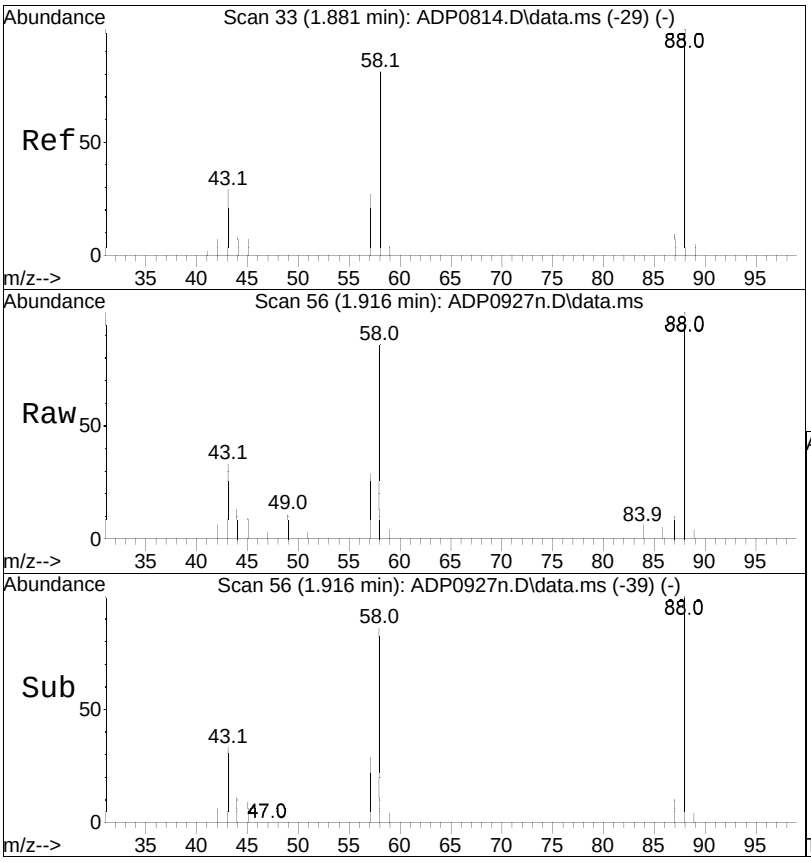
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : ADP0927n.D
Acq On : 28 Sep 2024 12:19 am
Operator : SV107:gmr
Sample : WG1977425-5,32,,ADP RVT CCV Lot #10751
Misc : WG1977425,,ical21360
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 28 00:49:07 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:06 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

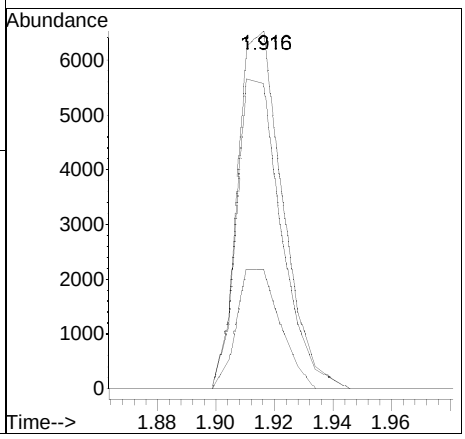


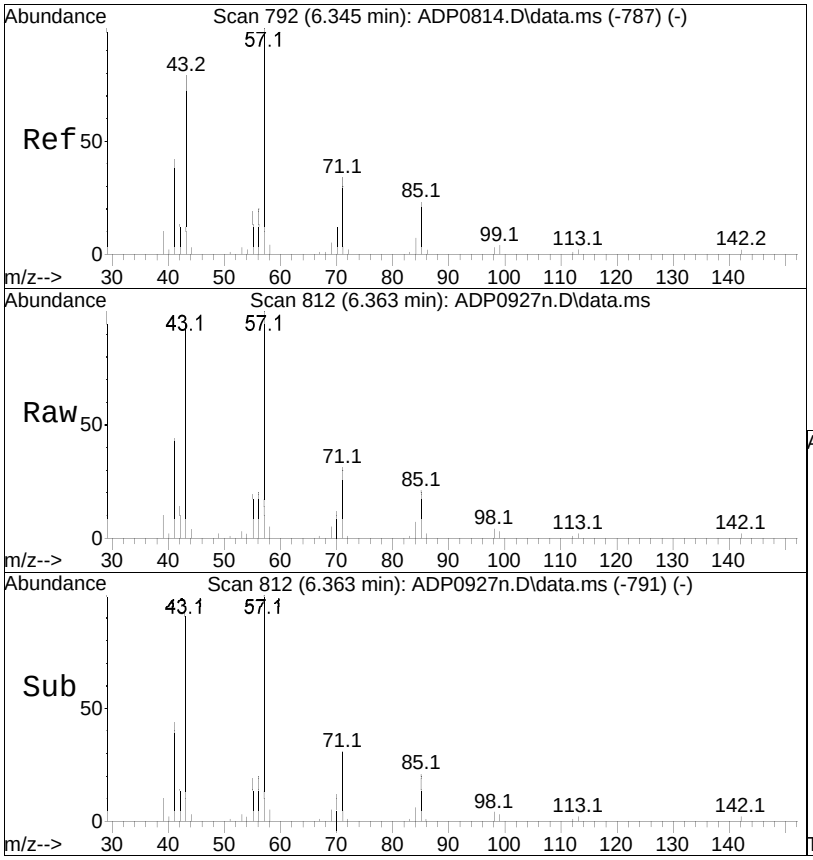


#33
1,4-Dioxane
Concen: 4.71 ug/ml
RT: 1.916 min Scan# 56
Delta R.T. 0.000 min
Lab File: ADP0927n.D
Acq: 28 Sep 2024 12:19 am

Tgt Ion: 88 Resp: 6936

Ion	Ratio	Lower	Upper
88	100		
58	86.2	44.8	67.2#
43	32.6	22.4	33.6

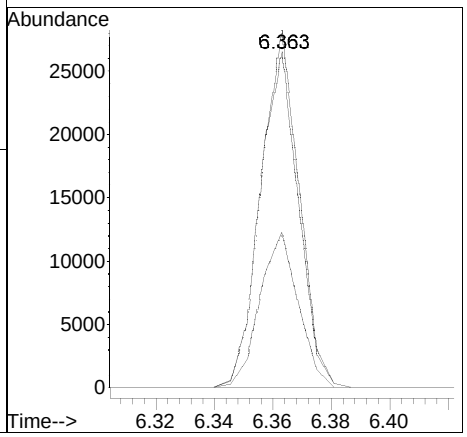


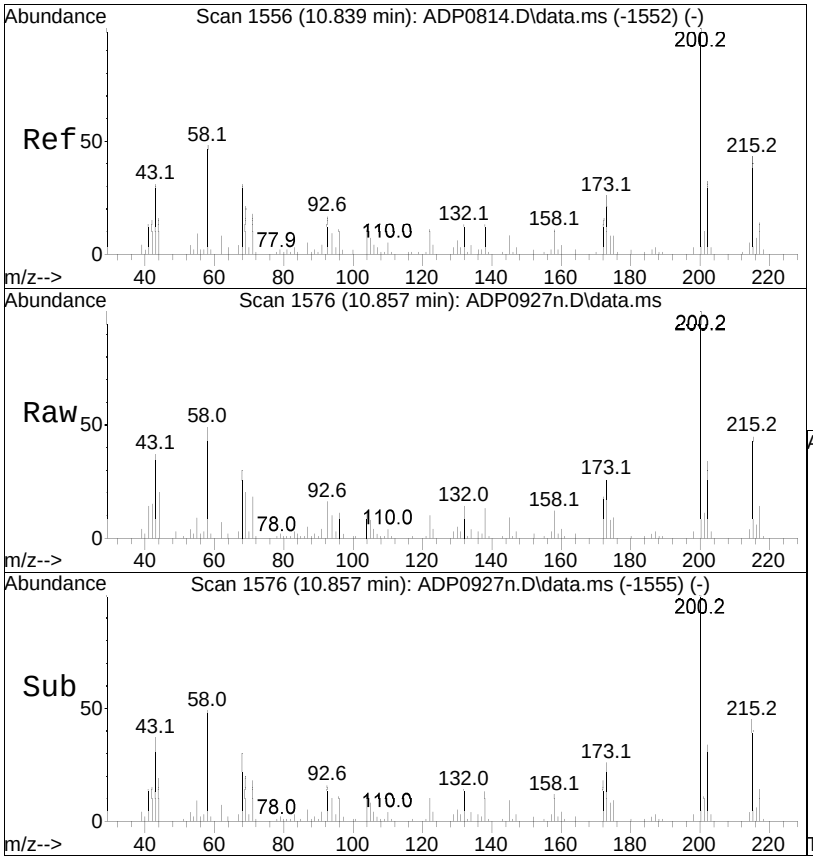


#34
n-Decane
Concen: 5.68 ug/ml
RT: 6.363 min Scan# 812
Delta R.T. 0.000 min
Lab File: ADP0927n.D
Acq: 28 Sep 2024 12:19 am

Tgt Ion: 57 Resp: 25312

Ion	Ratio	Lower	Upper
57	100		
43	95.0	0.2	0.2#
41	43.9	0.2	0.2#

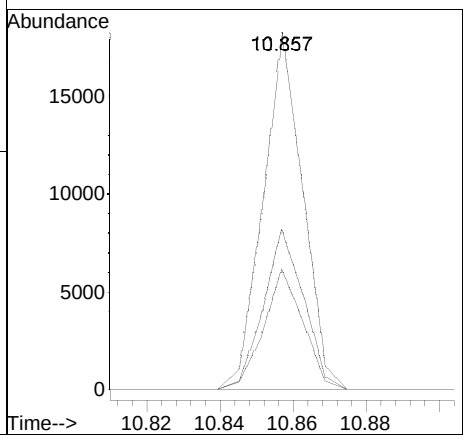


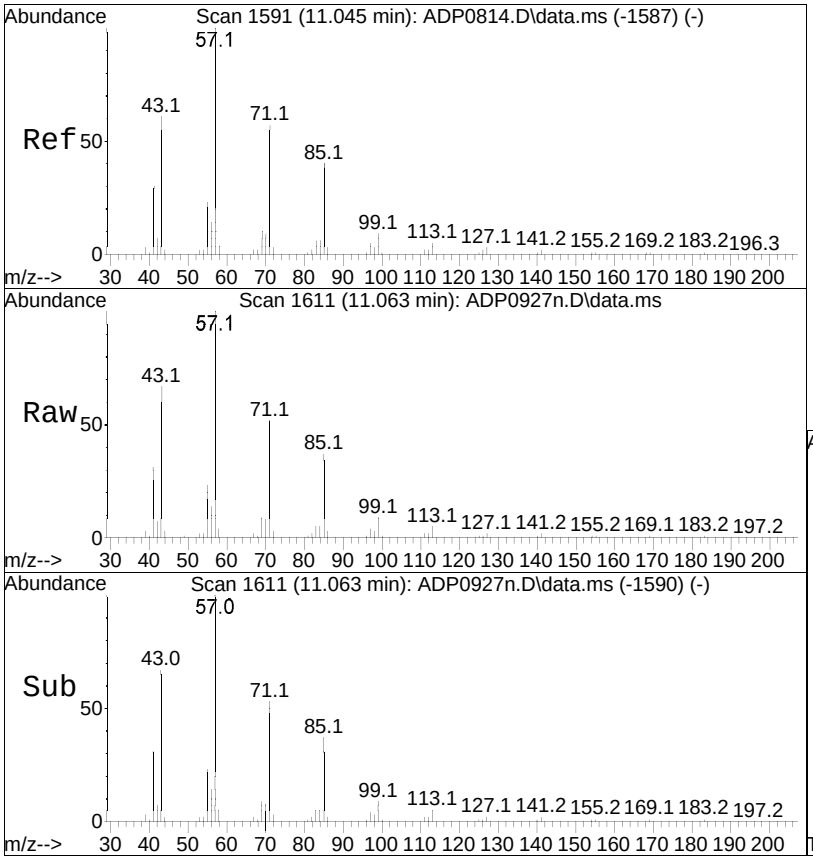


#87
Atrazine
Concen: 5.91 ug/ml
RT: 10.857 min Scan# 1576
Delta R.T. 0.000 min
Lab File: ADP0927n.D
Acq: 28 Sep 2024 12:19 am

Tgt Ion:200 Resp: 13646

Ion	Ratio	Lower	Upper
200	100		
202	33.6	25.8	38.6
215	45.7	40.2	60.4

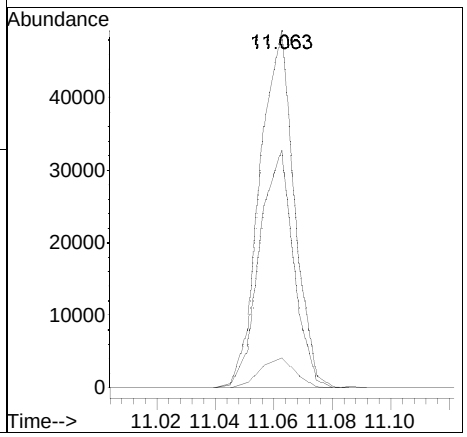


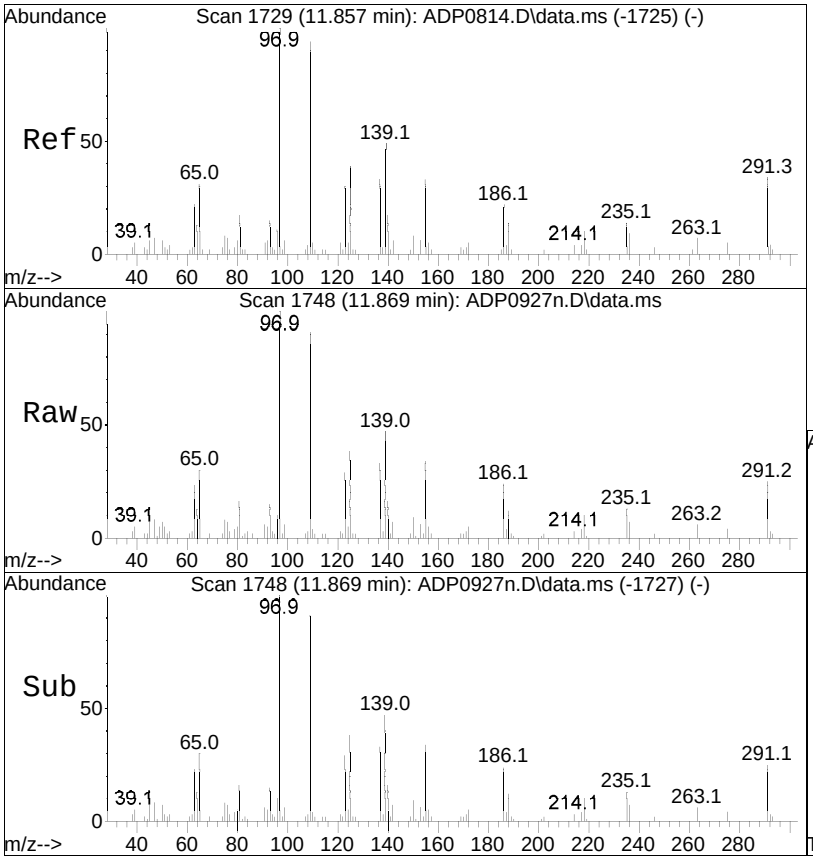


#101
n-Octadecane
Concen: 6.77 ug/ml
RT: 11.063 min Scan# 1611
Delta R.T. 0.000 min
Lab File: ADP0927n.D
Acq: 28 Sep 2024 12:19 am

Tgt Ion: 57 Resp: 39973

Ion	Ratio	Lower	Upper
57	100		
43	66.1	9.0	13.6#
70	8.6	0.2	0.2#

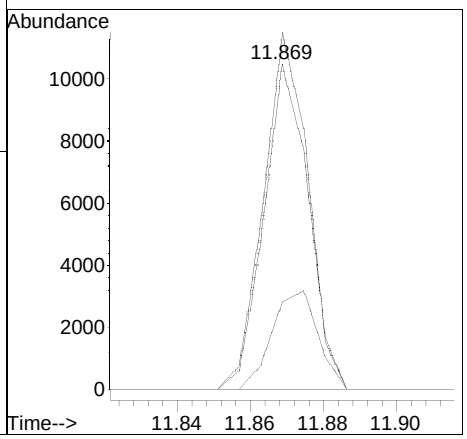


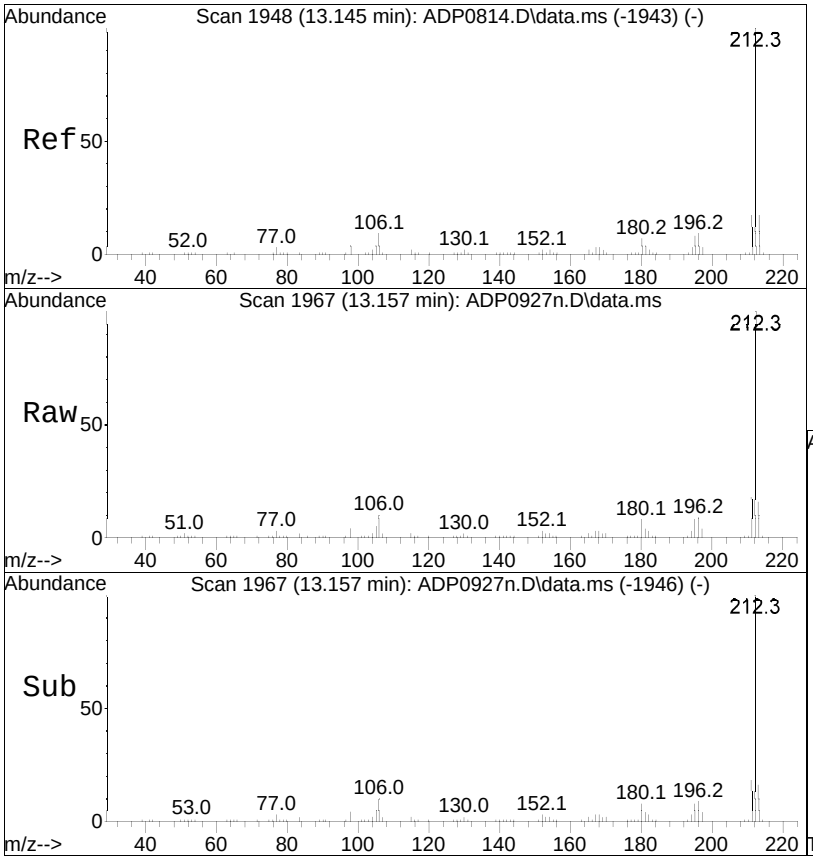


#102
Parathion
Concen: 6.95 ug/ml
RT: 11.869 min Scan# 1748
Delta R.T. 0.000 min
Lab File: ADP0927n.D
Acq: 28 Sep 2024 12:19 am

Tgt Ion:109 Resp: 8817

Ion	Ratio	Lower	Upper
109	100		
97	109.3	87.4	131.2
291	31.5	34.2	51.2#

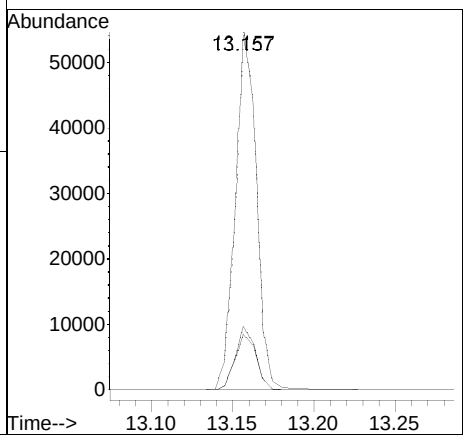




#103
3,3'-Dimethylbenzidine
Concen: 4.48 ug/ml
RT: 13.157 min Scan# 1967
Delta R.T. 0.000 min
Lab File: ADP0927n.D
Acq: 28 Sep 2024 12:19 am

Tgt Ion:212 Resp: 48879

Ion	Ratio	Lower	Upper
212	100		
211	17.0	12.9	19.3
213	15.8	13.2	19.8



Manual Integration Report

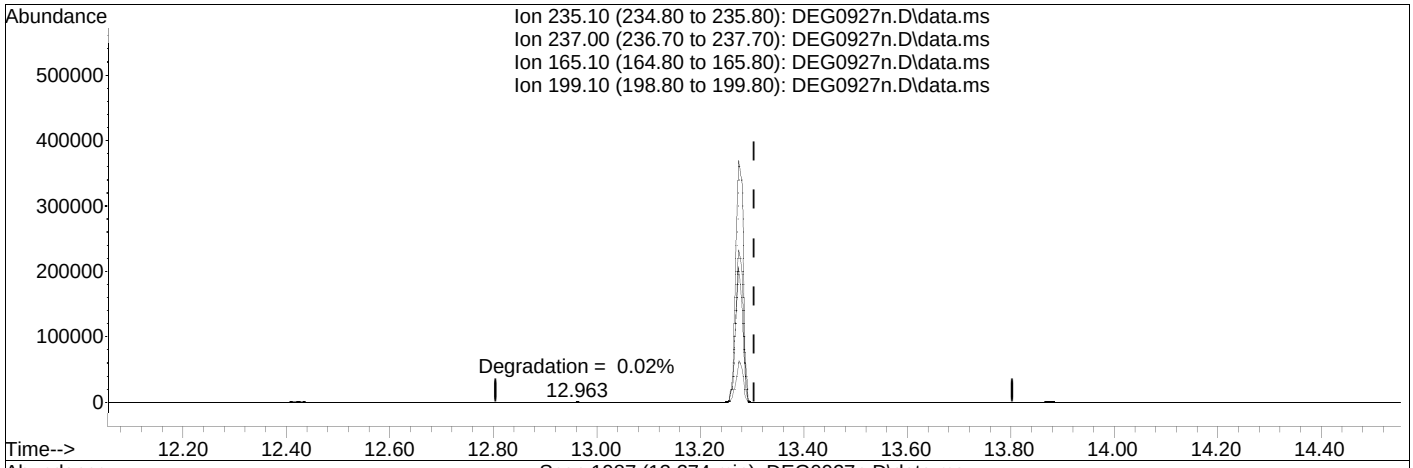
Data Path	: I:\8270\SV107\240927NRVT\	QMethod	: FS240730SV107RVT.m
Data File	: ADP0927n.D	Operator	: SV107:gmr
Date Inj'd	: 9/28/2024 12:19 am	Instrument	: SV107
Sample	: WG1977425-5,32,,ADP RVT CC	Quant Date	: 9/28/2024 0:50 am

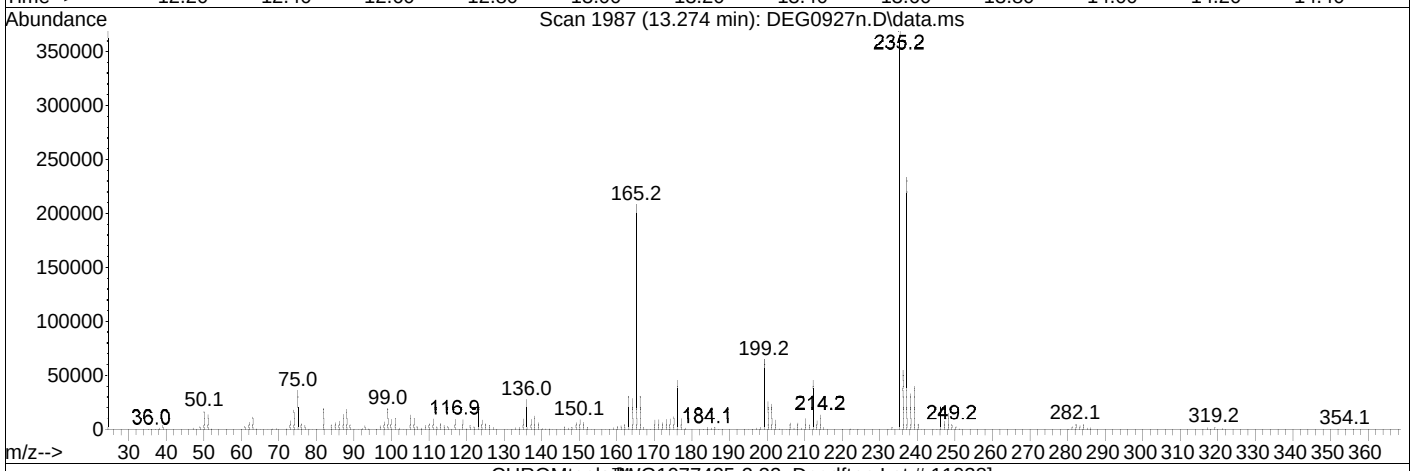
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240927NRVT\
Data File : DEG0927n.D
Acq On : 27 Sep 2024 11:03 pm
Operator : SV107: ASK
Sample : WG1977425-2,32,,Degdftpp Lot # 11038
Misc : WG1977425,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 27 23:22:19 2024
Quant Method : I:\8270\SV107\240927NRVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 07:13:20 2024
Response via : Initial Calibration





CHROMtools [WG1977425-2,32,,Degdftpp Lot # 11038]

(6) DDT (T)

13.274min (-0.030) 57.48

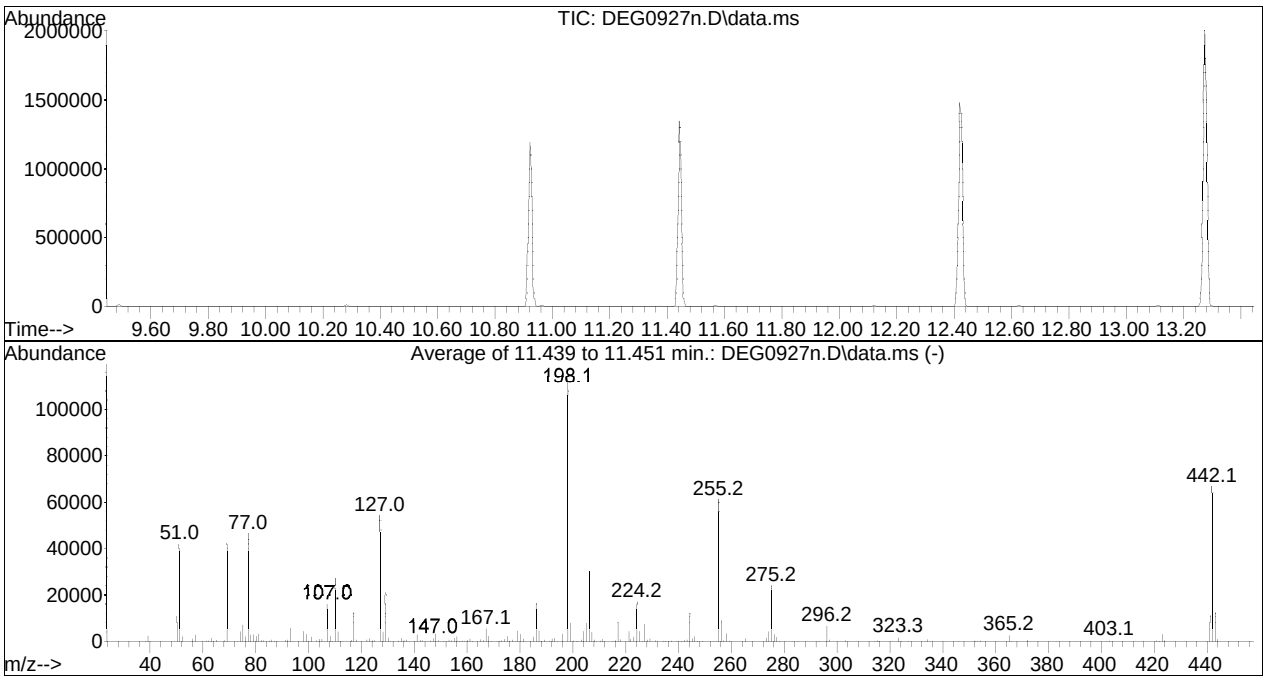
response 350398

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	62.97
165.10	55.40	52.84
199.10	16.20	16.44

Data Path : I:\8270\SV107\240927NRVT\
Data File : DEG0927n.D
Acq On : 27 Sep 2024 11:03 pm
Operator : SV107: ASK
Sample : WG1977425-1,32,,Degdftpp Lot # 11038
Misc : WG1977425,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Sat Sep 28 00:48:04 2024



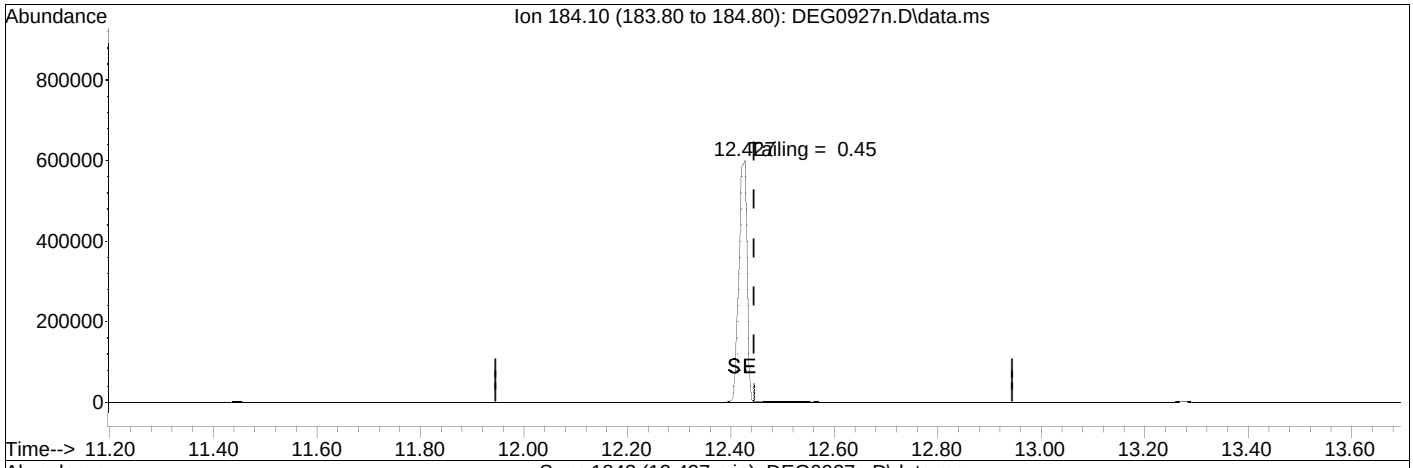
Spectrum Information: Average of 11.439 to 11.451 min.

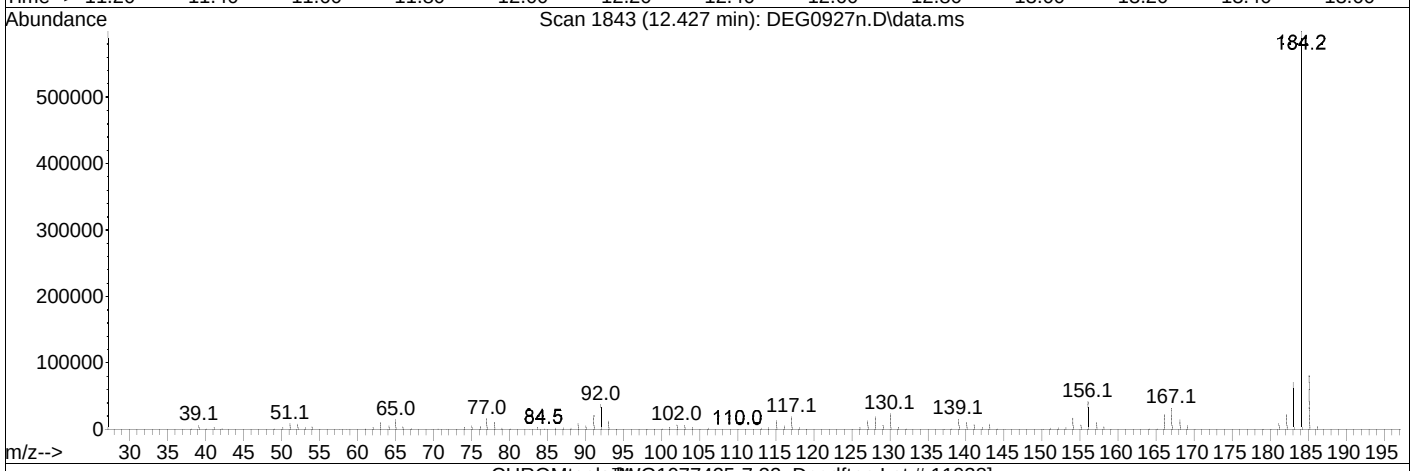
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.9	41945	PASS
68	69	0.00	2	1.7	704	PASS
69	69	100	100	100.0	42093	PASS
70	69	0.00	2	0.5	192	PASS
127	198	10	80	47.7	54235	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	113723	PASS
199	198	5	9	6.7	7613	PASS
275	198	10	60	21.0	23933	PASS
365	198	1	100	2.4	2705	PASS
441	442	0.01	24	16.8	11217	PASS
442	198	50	100	58.6	66659	PASS
443	442	15	24	19.1	12712	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240927NRVT\
Data File : DEG0927n.D
Acq On : 27 Sep 2024 11:03 pm
Operator : SV107: ASK
Sample : WG1977425-7,32,,Degdftpp Lot # 11038
Misc : WG1977425,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 27 23:22:19 2024
Quant Method : I:\8270\SV107\240927NRVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 07:13:20 2024
Response via : Initial Calibration





CHROMtools [WG1977425-7,32,,Degdftpp Lot # 11038]

(3) Benzidine (T)

12.427min (-0.018) 58.95

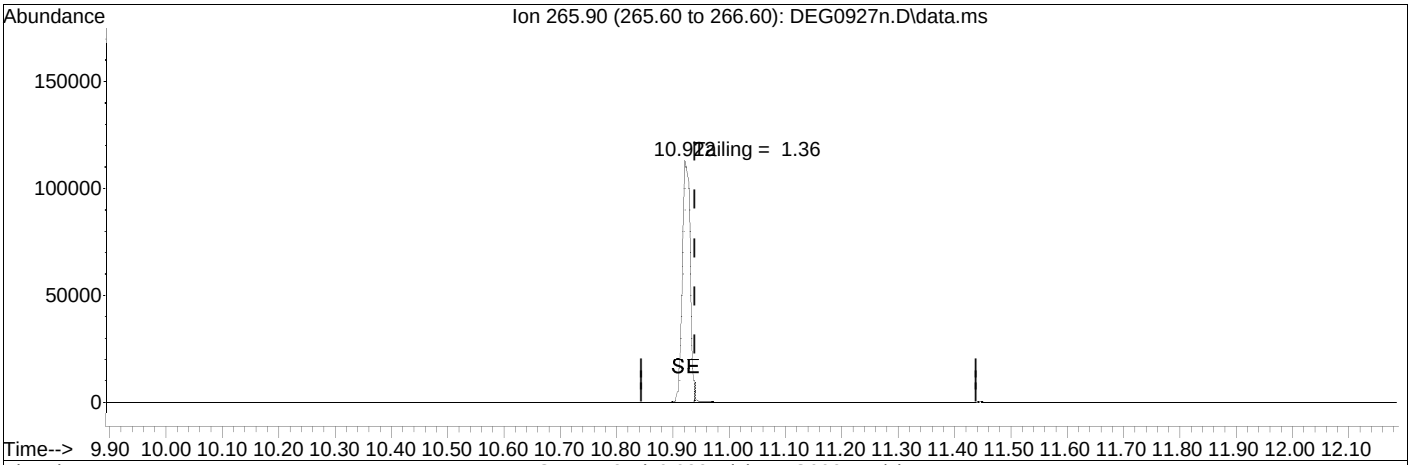
response 600098

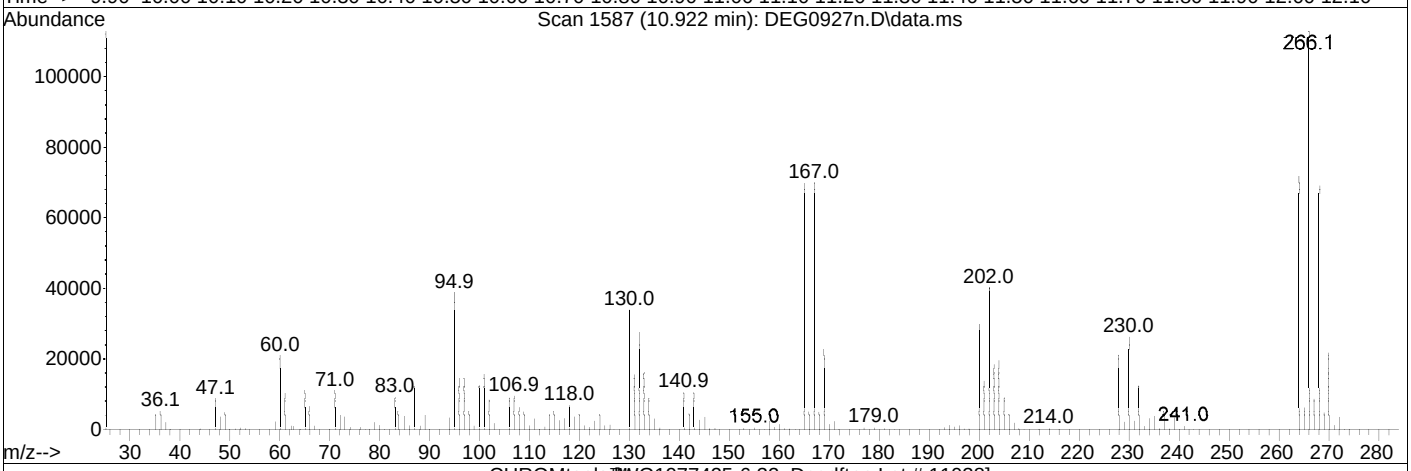
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240927NRVT\
Data File : DEG0927n.D
Acq On : 27 Sep 2024 11:03 pm
Operator : SV107: ASK
Sample : WG1977425-6,32,,Degdftpp Lot # 11038
Misc : WG1977425,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 27 23:22:19 2024
Quant Method : I:\8270\SV107\240927NRVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 27 07:13:20 2024
Response via : Initial Calibration





CHROMtools [WG1977425-6,32,,Degdftpp Lot # 11038]

(1) Pentachlorophenol (T)

10.922min (-0.017) 48.60

response 102084

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Duplicate Retention Times

(2) DFTPP 198.00

Semivolatiles Raw QC Data

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 28 14:04:10 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240927NRVT\ABN0927n.D
: 2 - I:\8270\SV107\240927NRVT\ADP0927n.D
: 3 - I:\8270\SV107\240927NRVT\AP90927n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.475	152	12431	4.000	ug/ml		0.00
Standard Area 1 = 14778			Recovery = 84.12%				
27) IS2_1,4-Dichlorobenzen...	6.475	152	12431	4.000	ug/ml		0.00
Standard Area 3 = 12952			Recovery = 95.98%				
32) IS3_1,4-Dichlorobenzen...	6.475	152	12431	4.000	ug/ml		0.00
Standard Area 2 = 12831			Recovery = 96.88%				
35) IS1_Naphthalene-d8	7.892	136	45027	4.000	ug/ml		0.00
Standard Area 1 = 54938			Recovery = 81.96%				
55) IS2_Naphthalene-d8	7.892	136	45027	4.000	ug/ml		0.00
Standard Area 3 = 49162			Recovery = 91.59%				
63) IS1_Acenaphthene-d10	9.651	164	27644	4.000	ug/ml		0.00
Standard Area 1 = 33659			Recovery = 82.13%				
83) IS2_Acenaphthene-d10	9.651	164	27644	4.000	ug/ml		0.00
Standard Area 3 = 29254			Recovery = 94.50%				
86) IS3_Acenaphthene-d10	9.651	164	27644	4.000	ug/ml		0.00
Standard Area 2 = 29357			Recovery = 94.16%				
88) IS1_Phenanthrene-d10	11.086	188	56938	4.000	ug/ml		0.00
Standard Area 1 = 70037			Recovery = 81.30%				
100) IS3_Phenanthrene-d10	11.086	188	56938	4.000	ug/ml	#	0.00
Standard Area 2 = 61933			Recovery = 91.93%				
104) IS1_Chrysene-d12	13.727	240	57262	4.000	ug/ml		0.00
Standard Area 1 = 61504			Recovery = 93.10%				
113) IS1_Perylene-d12	15.198	264	59254	4.000	ug/ml		0.00
Standard Area 1 = 65134			Recovery = 90.97%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.622	112	1654	0.493	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.65%				
7) Phenol-d6	6.098	99	2304	0.525	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 26.25%				
19) Nitrobenzene-d5	7.128	82	2547	0.599	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 59.90%				
46) 2-Fluorobiphenyl	9.010	172	5798	0.572	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 57.20%				
79) 2,4,6-Tribromophenol	10.422	330	522	0.403	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 20.15%				

Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 28 14:04:10 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240927NRVT\ABN0927n.D
: 2 - I:\8270\SV107\240927NRVT\ADP0927n.D
: 3 - I:\8270\SV107\240927NRVT\AP90927n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.668	244	9730	0.723	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 72.30%

Target Compounds			Qvalue
6) 2-Chlorophenol	0.000	0	N.D.
8) Phenol	0.000	0	N.D.
14) Bis(2-chloroisopropyl)...	0.000	0	N.D.
15) 2-Methylphenol	0.000	0	N.D.
17) n-Nitrosodi-n-propylamine	0.000	0	N.D.
18) 3-Methylphenol/4-Methy...	0.000	0	N.D.
20) Nitrobenzene	0.000	0	N.D.
21) Isophorone	0.000	0	N.D.
22) 2-Nitrophenol	0.000	0	N.D.
23) 2,4-Dimethylphenol	0.000	0	N.D.
24) Bis(2-chloroethoxy)met...	0.000	0	N.D.
25) 2,4-Dichlorophenol	0.000	0	N.D.
28) Benzaldehyde	0.000	0	N.D.
29) Acetophenone	0.000	0	N.D.
38) 4-Chloroaniline	0.000	0	N.D.
40) p-Chloro-m-cresol	0.000	0	N.D.
43) Hexachlorocyclopentadiene	0.000	0	N.D.
44) 2,4,6-Trichlorophenol	0.000	0	N.D.
45) 2,4,5-Trichlorophenol	0.000	0	N.D.
48) 2-Nitroaniline	0.000	0	N.D.
51) Dimethyl phthalate	0.000	0	N.D.
53) 2,6-Dinitrotoluene	0.000	0	N.D.
60) Caprolactam	0.000	0	N.D.
61) 1,2,4,5-Tetrachloroben...	0.000	0	N.D.
62) Biphenyl	0.000	0	N.D.
64) 3-Nitroaniline	0.000	0	N.D.
66) 2,4-Dinitrophenol	0.000	0	N.D.
67) Dibenzofuran	0.000	0	N.D.
68) 2,4-Dinitrotoluene	0.000	0	N.D.
69) 4-Nitrophenol	0.000	0	N.D.
72) Diethyl phthalate	0.000	0	N.D.
74) 4-Chlorophenyl phenyl ...	0.000	0	N.D.
75) 4-Nitroaniline	0.000	0	N.D.

Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 28 14:04:10 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240927NRVT\ABN0927n.D
: 2 - I:\8270\SV107\240927NRVT\ADP0927n.D
: 3 - I:\8270\SV107\240927NRVT\AP90927n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.		
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	

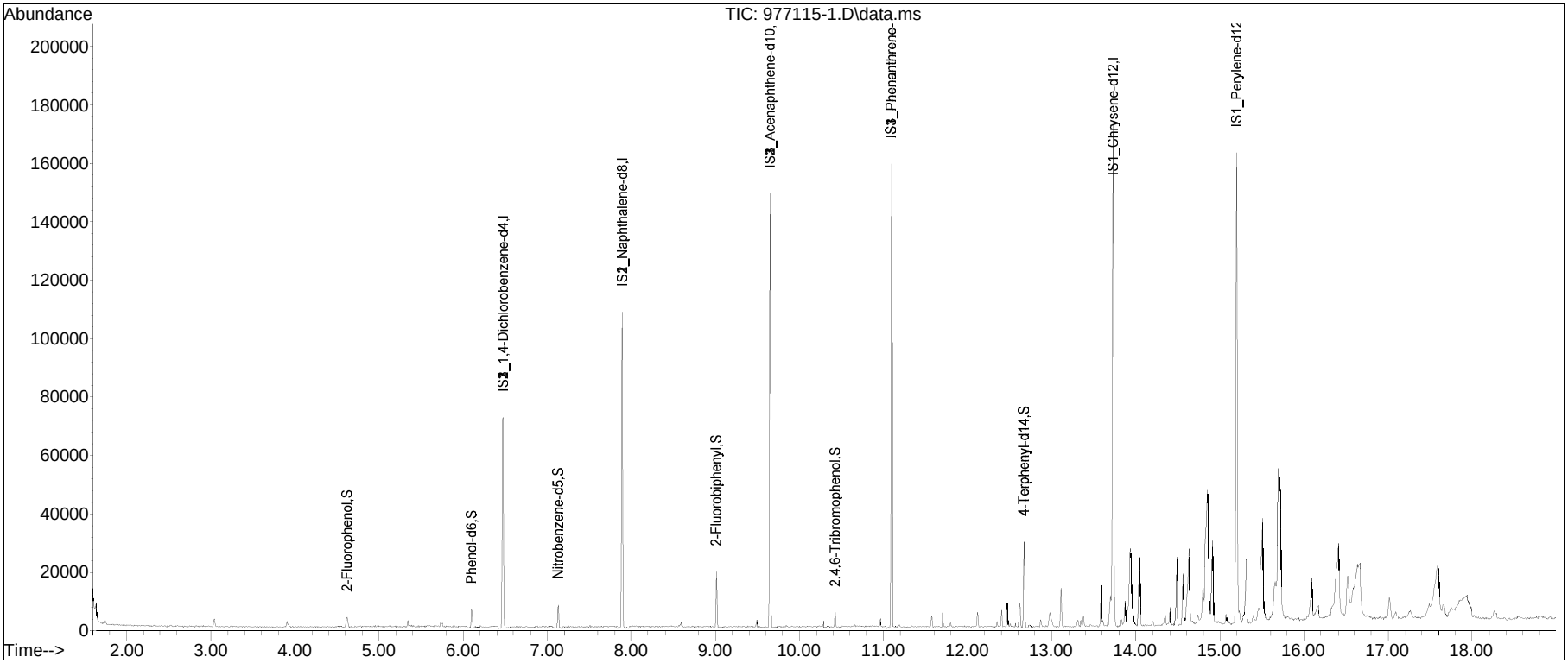
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 28 14:04:10 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MANRVT\AP90927n.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240927NRVT\	QMethod	: FS240730SV107RVT.m
Data File	: 977115-1.D	Operator	: SV107:jg
Date Inj'd	: 9/28/2024 12:45 am	Instrument	: SV107
Sample	: WG1977115-1,32,,ASK,/144	Quant Date	: 9/28/2024 1:04 am

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

LSC Area Percent Report

Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 400 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 977115-1.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.746	24	27	33	rVB3	1399	1808	0.99%	0.089%
2	2.087	84	85	92	rVB3	409	711	0.39%	0.035%
3	2.457	146	148	152	rVB3	594	738	0.40%	0.036%
4	2.534	157	161	164	rVB3	558	973	0.53%	0.048%
5	2.828	208	211	216	rBV3	611	1067	0.58%	0.053%
6	2.893	216	222	224	rVV3	427	903	0.49%	0.045%
7	3.034	243	246	251	rBV3	2572	3902	2.14%	0.192%
8	3.128	260	262	268	rVB2	519	874	0.48%	0.043%
9	3.781	371	373	376	rBV2	507	741	0.41%	0.037%
10	3.898	384	393	402	rVB4	2154	5045	2.76%	0.249%
11	4.622	510	516	520	rVB2	3631	5220	2.86%	0.257%
12	4.781	535	543	545	rVB4	570	1300	0.71%	0.064%
13	4.998	579	580	584	rBV2	637	712	0.39%	0.035%
14	5.334	634	637	641	rVB2	2372	2678	1.47%	0.132%
15	5.387	641	646	648	rBV4	694	1036	0.57%	0.051%
16	5.581	675	679	682	rBV3	476	916	0.50%	0.045%
17	5.728	702	704	712	rBV5	1495	3107	1.70%	0.153%
18	6.098	762	767	772	rBV	6117	5715	3.13%	0.282%
19	6.328	799	806	810	rBV3	494	1333	0.73%	0.066%
20	6.475	823	831	836	rBV	72341	73386	40.17%	3.619%
21	6.751	873	878	881	rVV3	486	722	0.40%	0.036%
22	7.128	937	942	948	rVB	8061	7432	4.07%	0.367%
23	7.192	948	953	955	rBV4	489	736	0.40%	0.036%
24	7.375	980	984	986	rVB5	538	803	0.44%	0.040%
25	7.410	986	990	993	rBV3	526	921	0.50%	0.045%
26	7.692	1034	1038	1044	rBV4	453	1099	0.60%	0.054%
27	7.798	1050	1056	1058	rVB2	430	833	0.46%	0.041%
28	7.892	1065	1072	1079	rBV	108278	93618	51.24%	4.617%

LSC Area Percent Report

Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 400 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270

29	8.251	1130	1133	1138	rBV2	549	1140	0.62%	0.056%
30	8.286	1138	1139	1145	rVV	466	768	0.42%	0.038%
31	8.580	1183	1189	1197	rBV3	1534	2693	1.47%	0.133%
32	8.716	1209	1212	1216	rVB2	678	1010	0.55%	0.050%
33	9.010	1258	1262	1266	rBV	19032	13786	7.55%	0.680%
34	9.486	1336	1343	1348	rVV	2394	2994	1.64%	0.148%
35	9.586	1355	1360	1367	rVB4	517	1066	0.58%	0.053%
36	9.651	1367	1371	1377	rBV	148742	119221	65.26%	5.879%
37	10.192	1457	1463	1465	rVB3	498	1009	0.55%	0.050%
38	10.227	1465	1469	1471	rBV3	615	921	0.50%	0.045%
39	10.280	1475	1478	1482	rVB2	2117	1659	0.91%	0.082%
40	10.422	1498	1502	1507	rBV3	5101	4076	2.23%	0.201%
41	10.657	1535	1542	1544	rBV4	670	893	0.49%	0.044%
42	10.963	1589	1594	1601	rBV	2751	3017	1.65%	0.149%
43	11.057	1606	1610	1611	rBV3	542	699	0.38%	0.034%
44	11.086	1611	1615	1623	rBV	158848	139724	76.48%	6.891%
45	11.192	1629	1633	1636	rVB	787	913	0.50%	0.045%
46	11.569	1691	1697	1700	rVB	3914	4216	2.31%	0.208%
47	11.698	1716	1719	1724	rBV	12501	10267	5.62%	0.506%
48	11.798	1728	1736	1742	rVV4	1501	2057	1.13%	0.101%
49	12.116	1783	1790	1795	rBV	5142	5936	3.25%	0.293%
50	12.351	1825	1830	1832	rBV3	2147	2286	1.25%	0.113%
51	12.404	1833	1839	1842	rVV	5586	4690	2.57%	0.231%
52	12.468	1847	1850	1855	rVV	8361	6774	3.71%	0.334%
53	12.504	1855	1856	1860	rVV	1230	1145	0.63%	0.056%
54	12.568	1864	1867	1871	rVV3	1306	1104	0.60%	0.054%
55	12.621	1871	1876	1881	rVV	8359	8739	4.78%	0.431%
56	12.668	1881	1884	1889	rVB	29381	23553	12.89%	1.162%
57	12.733	1889	1895	1899	rBV4	816	1245	0.68%	0.061%
58	12.868	1913	1918	1922	rBV	2607	2947	1.61%	0.145%
59	12.980	1932	1937	1947	rBV4	4898	9632	5.27%	0.475%
60	13.110	1954	1959	1965	rBV	13310	13038	7.14%	0.643%

LSC Area Percent Report

Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 400 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270

61	13.304	1988	1992	1997	rVV5	2427	3243	1.78%	0.160%
62	13.351	1997	2000	2002	rVV3	2316	1904	1.04%	0.094%
63	13.380	2002	2005	2009	rVB	3514	3303	1.81%	0.163%
64	13.457	2016	2018	2022	rBV4	760	1027	0.56%	0.051%
65	13.580	2033	2039	2047	rBV	17142	20434	11.19%	1.008%
66	13.663	2051	2053	2055	rVV2	2892	2120	1.16%	0.105%
67	13.727	2055	2064	2074	rVB	171930	182689	100.00%	9.009%
68	13.833	2079	2082	2084	rBV2	2655	2765	1.51%	0.136%
69	13.868	2084	2088	2091	rVV	8673	10659	5.83%	0.526%
70	13.933	2091	2099	2112	rVV2	26526	64683	35.41%	3.190%
71	14.039	2112	2117	2125	rVB2	23930	29752	16.29%	1.467%
72	14.198	2141	2144	2148	rVB2	1474	1771	0.97%	0.087%
73	14.339	2160	2168	2171	rBV2	4576	5122	2.80%	0.253%
74	14.398	2174	2178	2184	rVB2	5806	6616	3.62%	0.326%
75	14.486	2187	2193	2198	rBV	23494	26477	14.49%	1.306%
76	14.562	2198	2206	2209	rBV2	17454	19105	10.46%	0.942%
77	14.627	2209	2217	2224	rVB2	24847	47409	25.95%	2.338%
78	14.733	2230	2235	2238	rBV3	3151	4352	2.38%	0.215%
79	14.798	2240	2246	2248	rVV4	12741	19703	10.78%	0.972%
80	14.851	2248	2255	2261	rVV2	45505	108055	59.15%	5.329%
81	14.909	2261	2265	2271	rVV	27976	33535	18.36%	1.654%
82	15.068	2289	2292	2301	rVB2	3549	5419	2.97%	0.267%
83	15.198	2308	2314	2324	rBV	161117	170785	93.48%	8.422%
84	15.309	2324	2333	2339	rVB2	22004	34317	18.78%	1.692%
85	15.398	2343	2348	2352	rBV4	2683	4139	2.27%	0.204%
86	15.504	2352	2366	2378	rVV2	35086	78391	42.91%	3.866%
87	15.656	2380	2392	2394	rVV3	13052	28405	15.55%	1.401%
88	15.698	2394	2399	2414	rVB2	54043	138081	75.58%	6.810%
89	16.086	2454	2465	2470	rBV3	13899	25841	14.14%	1.274%
90	16.168	2473	2479	2485	rVB5	4256	8733	4.78%	0.431%
91	16.404	2502	2519	2532	rBV3	24869	81598	44.66%	4.024%

LSC Area Percent Report

Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 400 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270

92	16.521	2532	2539	2544	rVV3	13765	29979	16.41%	1.478%
93	16.662	2546	2563	2576	rVB5	18266	100465	54.99%	4.954%
94	17.009	2617	2622	2629	rVB3	7518	13182	7.22%	0.650%
95	17.086	2629	2635	2645	rBV7	2731	6430	3.52%	0.317%
96	17.486	2696	2703	2705	rBV7	4017	7316	4.00%	0.361%
97	17.592	2708	2721	2730	rVV6	16161	65480	35.84%	3.229%
98	17.668	2730	2734	2741	rVB3	4299	8552	4.68%	0.422%
99	17.750	2741	2748	2751	rBV8	3317	7843	4.29%	0.387%
100	18.268	2828	2836	2842	rVB6	3031	6541	3.58%	0.323%

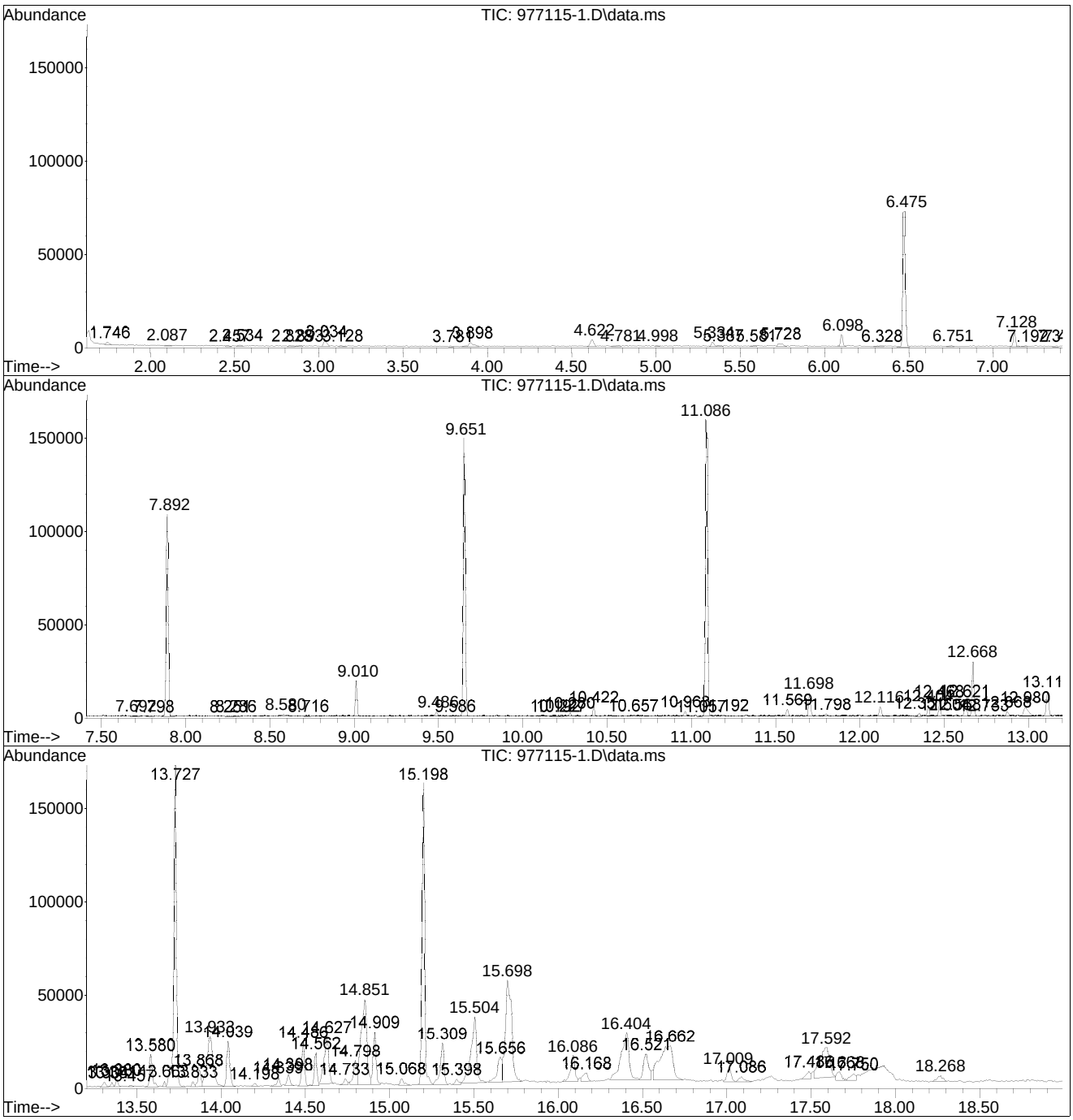
Sum of corrected areas: 2027768

LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p



Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

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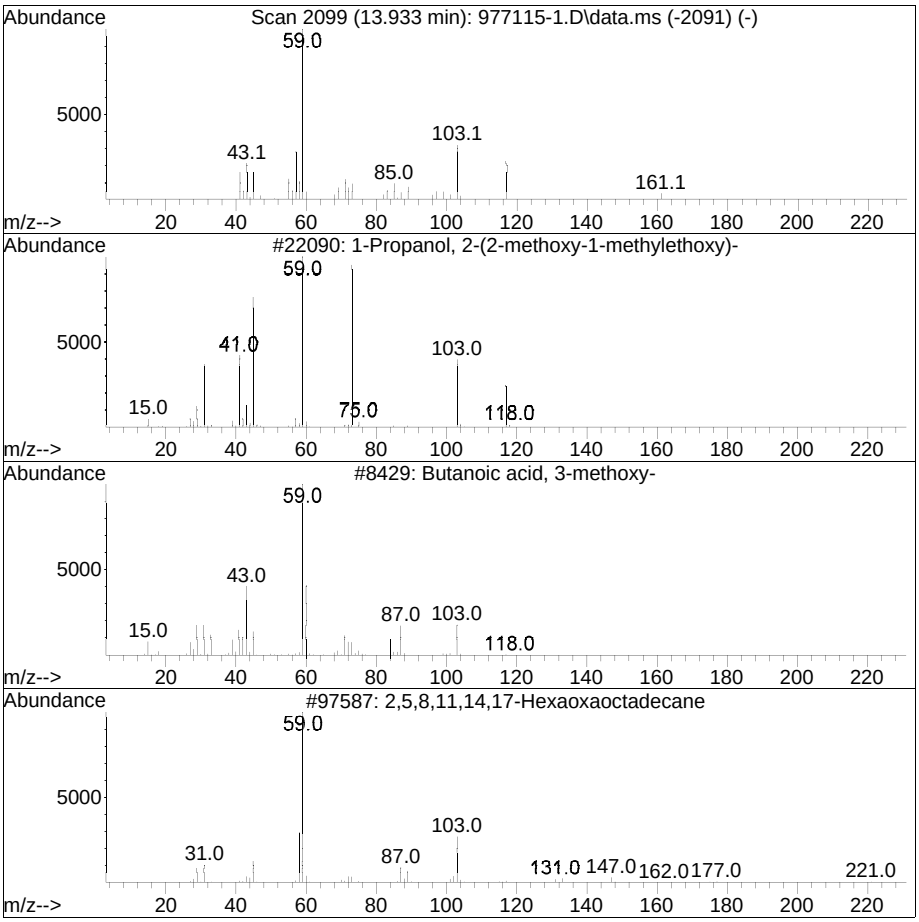
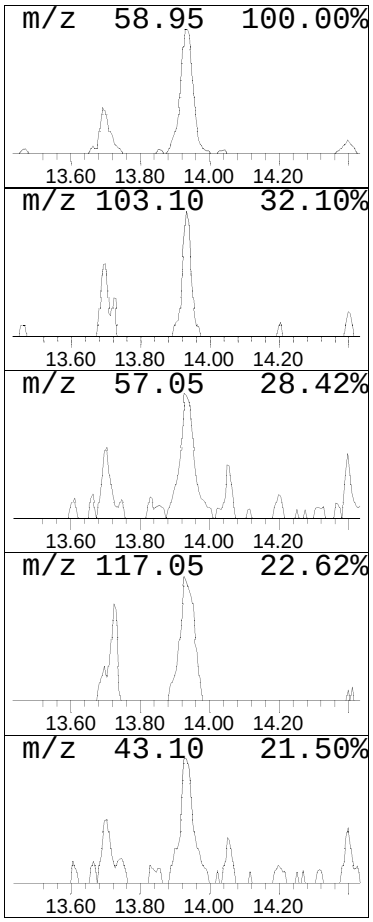
Peak Number 1 Unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.933	1.42 ug/ml	64683	IS1_Chrysene-d12	13.727

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol, 2-(2-methoxy-1-methy...	148	C7H16O3	055956-21-3	53
2	Butanoic acid, 3-methoxy-	118	C5H10O3	010024-70-1	50
3	2,5,8,11,14,17-Hexaoxaoctadecane	266	C12H26O6	001191-87-3	47
4	Methane, diethoxy-	104	C5H12O2	000462-95-3	47
5	Butanal, 3-methyl-, oxime	101	C5H11NO	000626-90-4	43





Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

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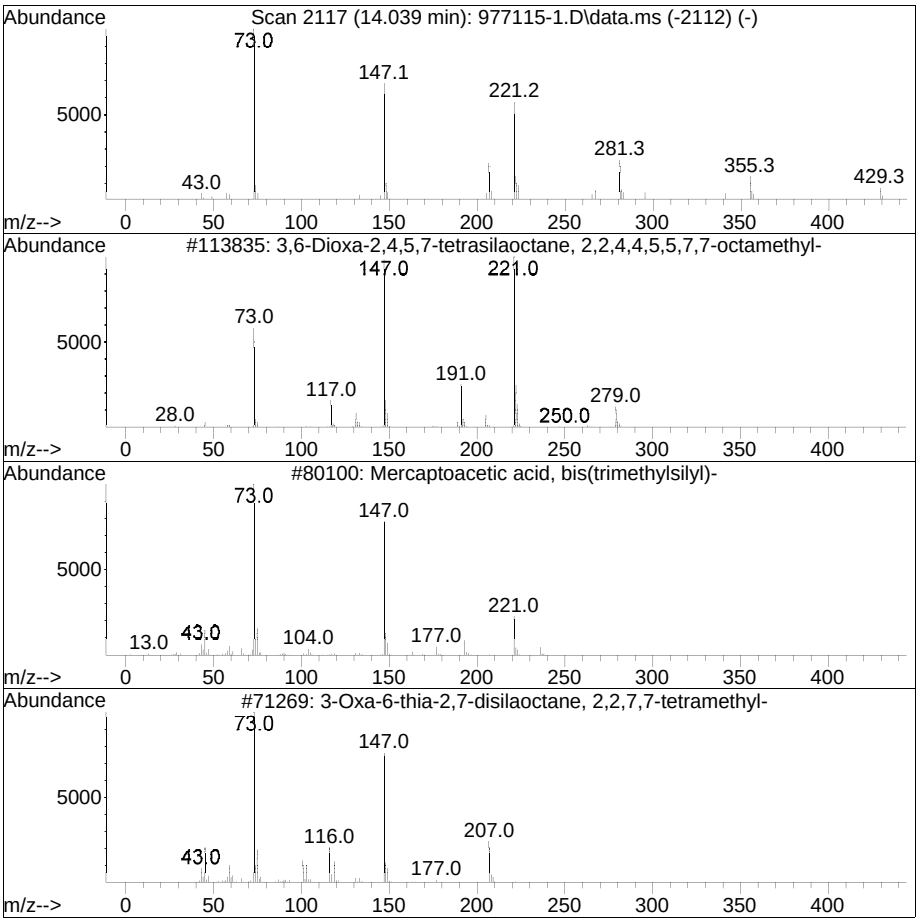
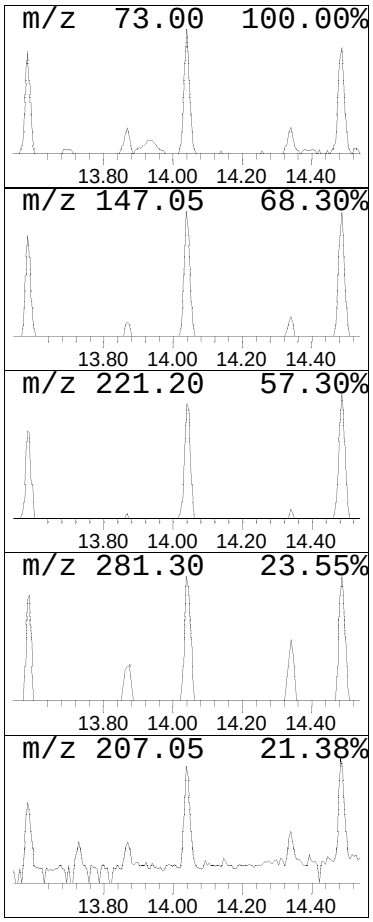
Peak Number 2 Unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.039	0.65 ug/ml	29752	IS1_Chrysene-d12	13.727

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,6-Dioxa-2,4,5,7-tetrasilaoctan...	294	C10H30O2Si4	004342-25-0	50
2	Mercaptoacetic acid, bis(trimeth...	236	C8H20O2SSi2	006398-62-5	38
3	3-Oxa-6-thia-2,7-disilaoctane, 2...	222	C8H22OSSi2	078921-31-0	35
4	Trisiloxane, 1,1,1,5,5,5-hexamet...	384	C12H36O4Si5	003555-47-3	32
5	Trisiloxane, octamethyl-	236	C8H24O2Si3	000107-51-7	27





Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

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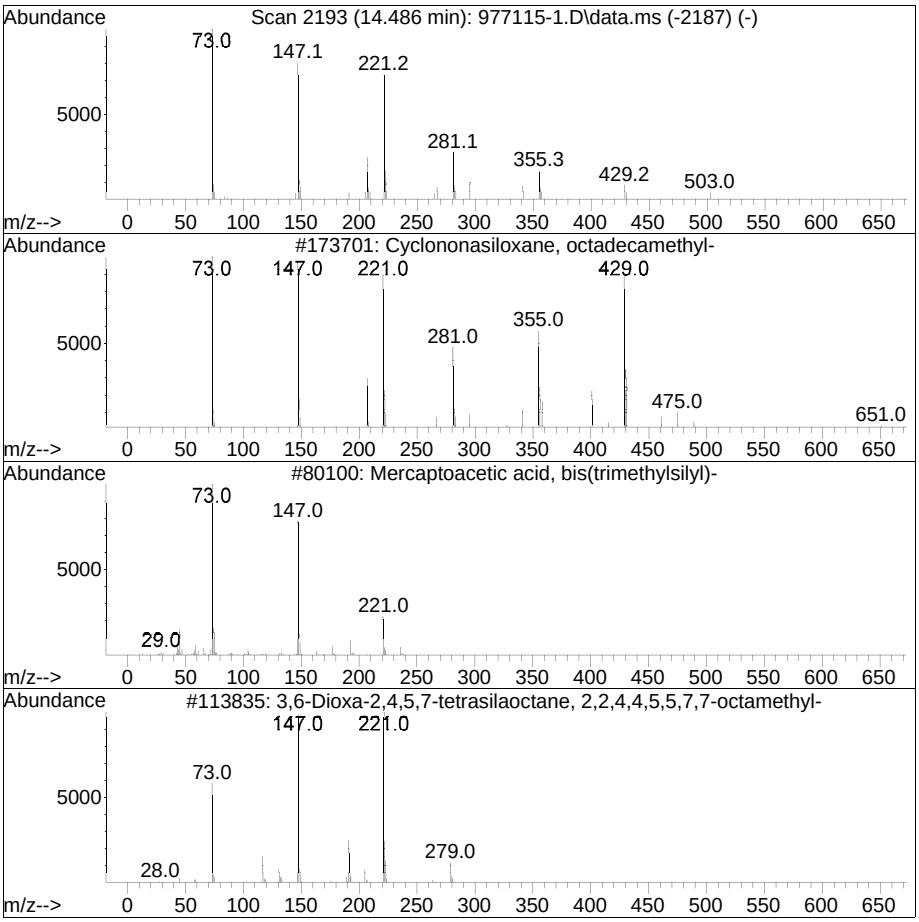
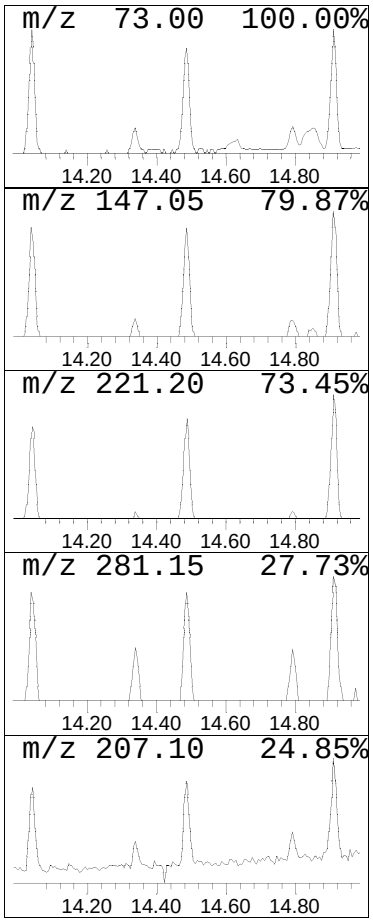
Peak Number 3 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.486	0.62 ug/ml	26477	IS1_Perylene-d12	15.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclononasiloxane, octadecamethyl-	666	C18H54O9Si9	000556-71-8	64
2	Mercaptoacetic acid, bis(trimeth...	236	C8H20O2SSi2	006398-62-5	42
3	3,6-Dioxa-2,4,5,7-tetrasilaoctan...	294	C10H30O2Si4	004342-25-0	42
4	3-Isopropoxy-1,1,1,7,7,7-hexamet...	576	C18H52O7Si7	071579-69-6	32
5	N-Benzyl-N-ethyl-p-isopropylbenz...	281	C19H23NO	015089-22-2	27





Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

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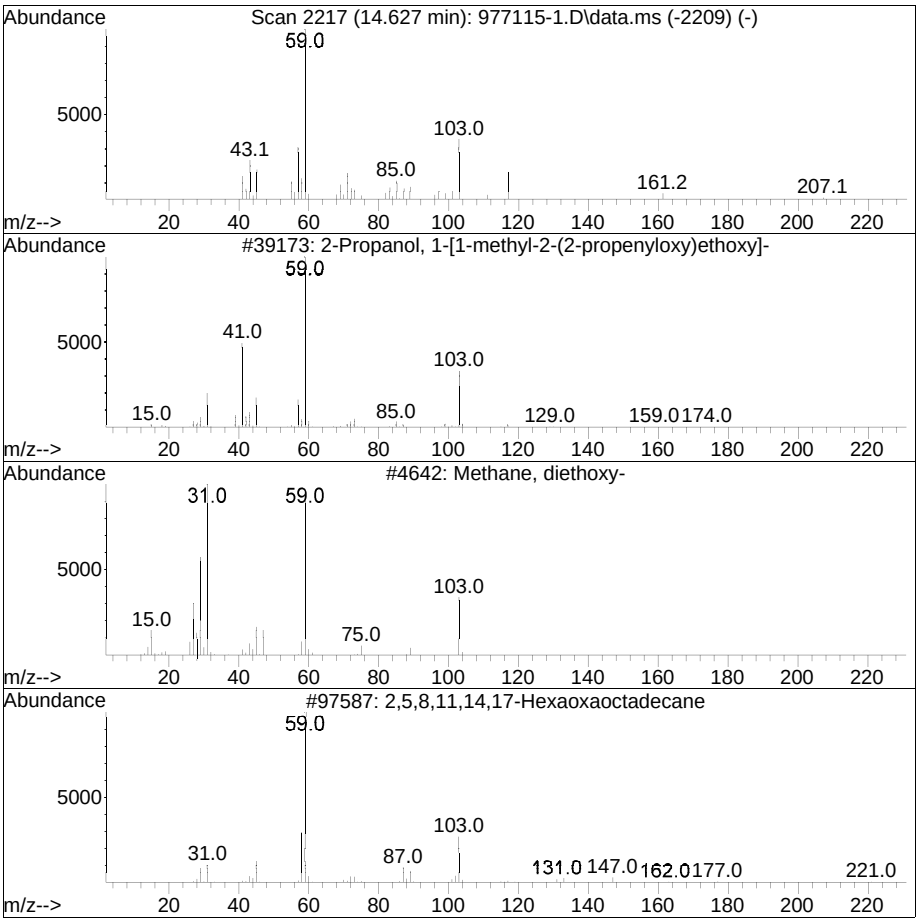
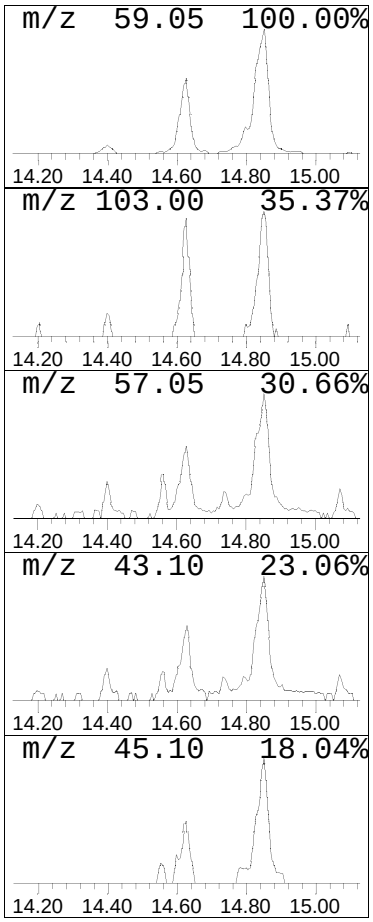
Peak Number 4 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.627	1.11 ug/ml	47409	IS1_Perylene-d12	15.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	59
2	Methane, diethoxy-	104	C5H12O2	000462-95-3	42
3	2,5,8,11,14,17-Hexaoxaoctadecane	266	C12H26O6	001191-87-3	42
4	2-Propanol, 1,1'-[(1-methyl-1,2-...	192	C9H20O4	001638-16-0	38
5	1,2-Dideoxy-l-erythro-pentitol	120	C5H12O3	1000112-47-4	37





Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

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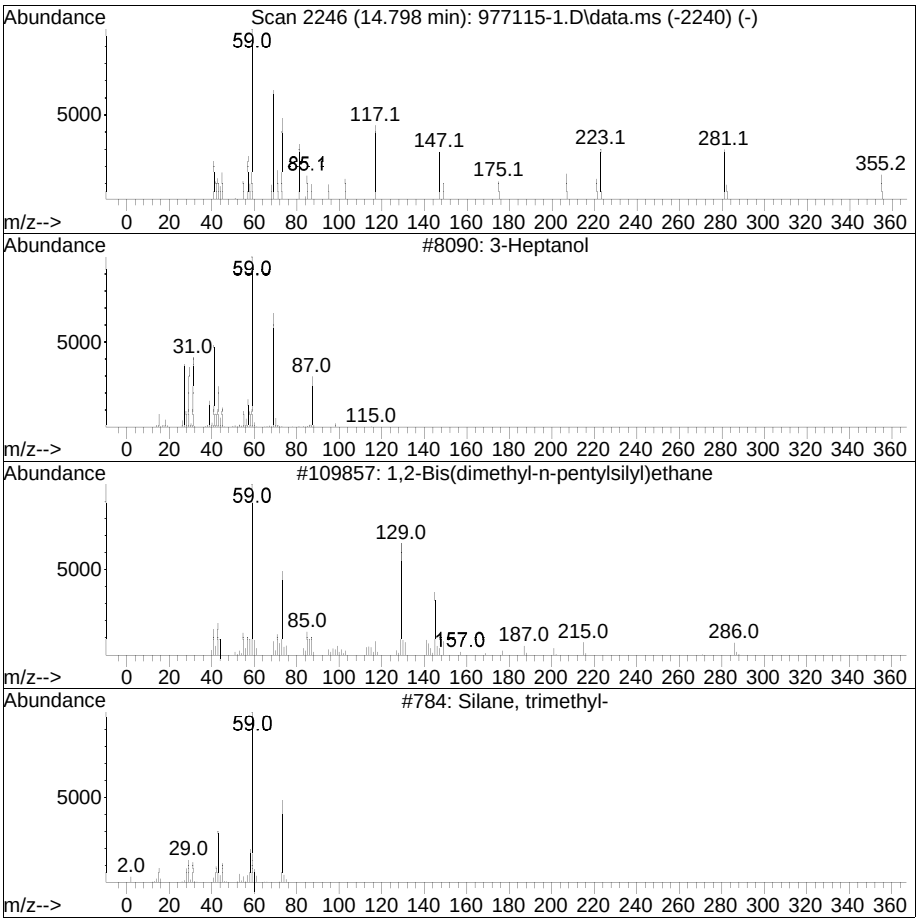
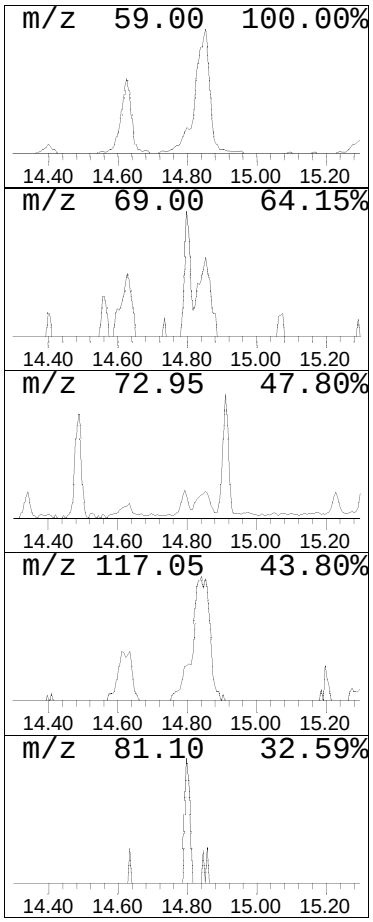
Peak Number 5 Unknown Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.798	0.46 ug/ml	19703	IS1_Perylene-d12	15.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Heptanol	116	C7H16O	000589-82-2	22
2	1,2-Bis(dimethyl-n-pentylsilyl)e...	286	C16H38Si2	136935-55-2	12
3	Silane, trimethyl-	74	C3H10Si	000993-07-7	10
4	2,5,8,11,14-Pentaoxapentadecane	222	C10H22O5	000143-24-8	10
5	Hexylene Glycol	118	C6H14O2	000107-41-5	10





Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

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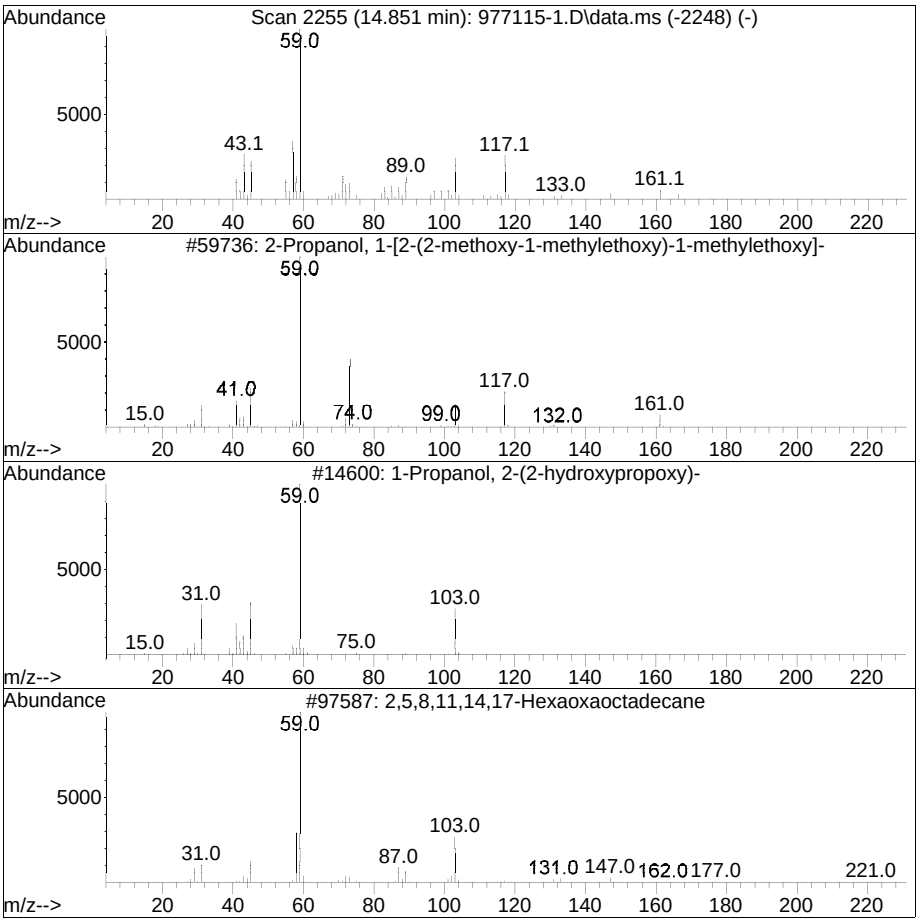
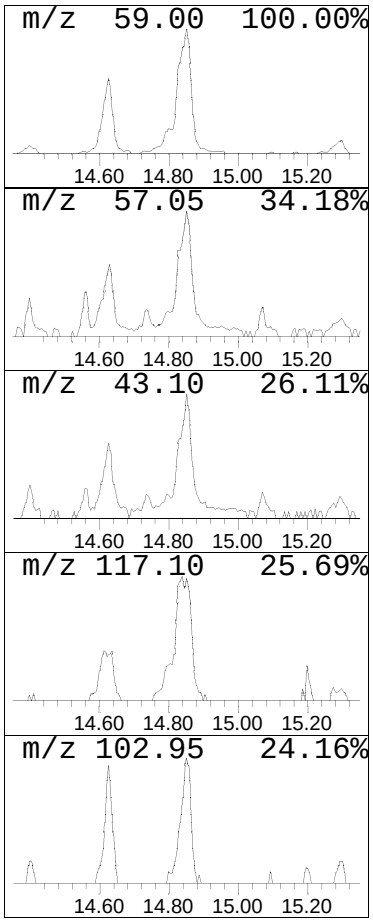
Peak Number 6 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.851	2.53 ug/ml	108055	IS1_Perylene-d12	15.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-[2-(2-methoxy-1-me...	206	C10H22O4	020324-33-8	53
2	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	50
3	2,5,8,11,14,17-Hexaoxaoctadecane	266	C12H26O6	001191-87-3	50
4	1-Propanol, 2-(2-methoxypropoxy)-	148	C7H16O3	013588-28-8	50
5	Dipropylene glycol	134	C6H14O3	025265-71-8	50





Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

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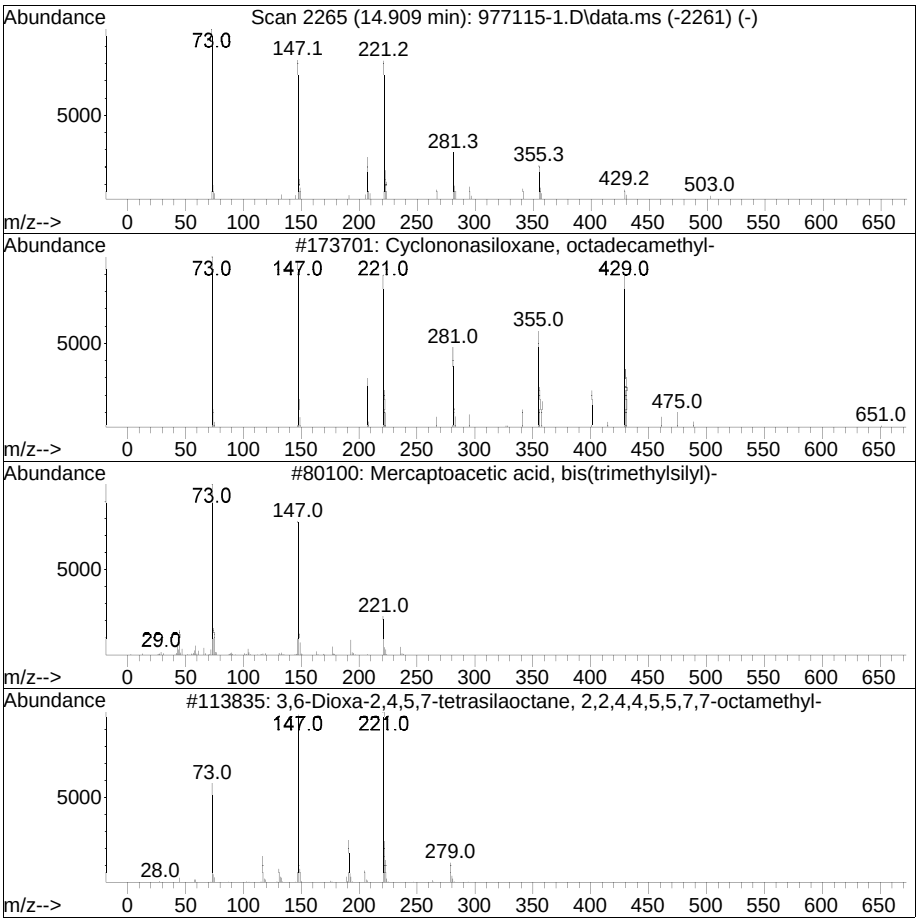
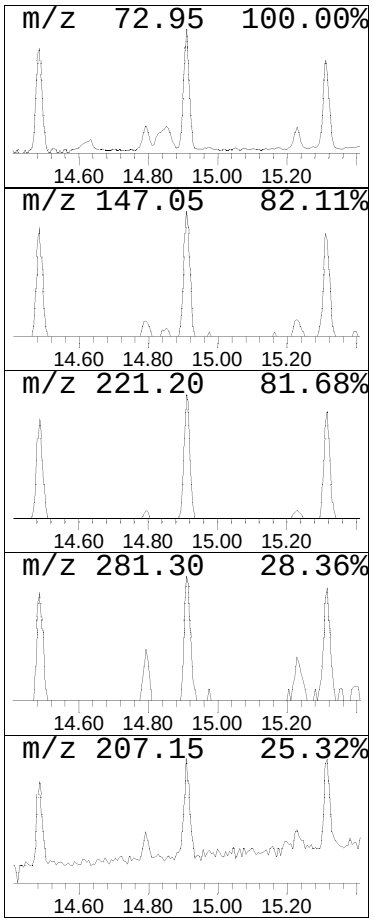
Peak Number 7 Unknown Siloxane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.910	0.79 ug/ml	33535	IS1_Perylene-d12	15.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclononasiloxane, octadecamethyl-	666	C18H54O9Si9	000556-71-8	91
2	Mercaptoacetic acid, bis(trimeth...	236	C8H20O2SSi2	006398-62-5	40
3	3,6-Dioxa-2,4,5,7-tetrasilaoctan...	294	C10H30O2Si4	004342-25-0	40
4	Pentasiloxane, dodecamethyl-	384	C12H36O4Si5	000141-63-9	35
5	N-Benzyl-N-ethyl-p-isopropylbenz...	281	C19H23NO	015089-22-2	27





Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

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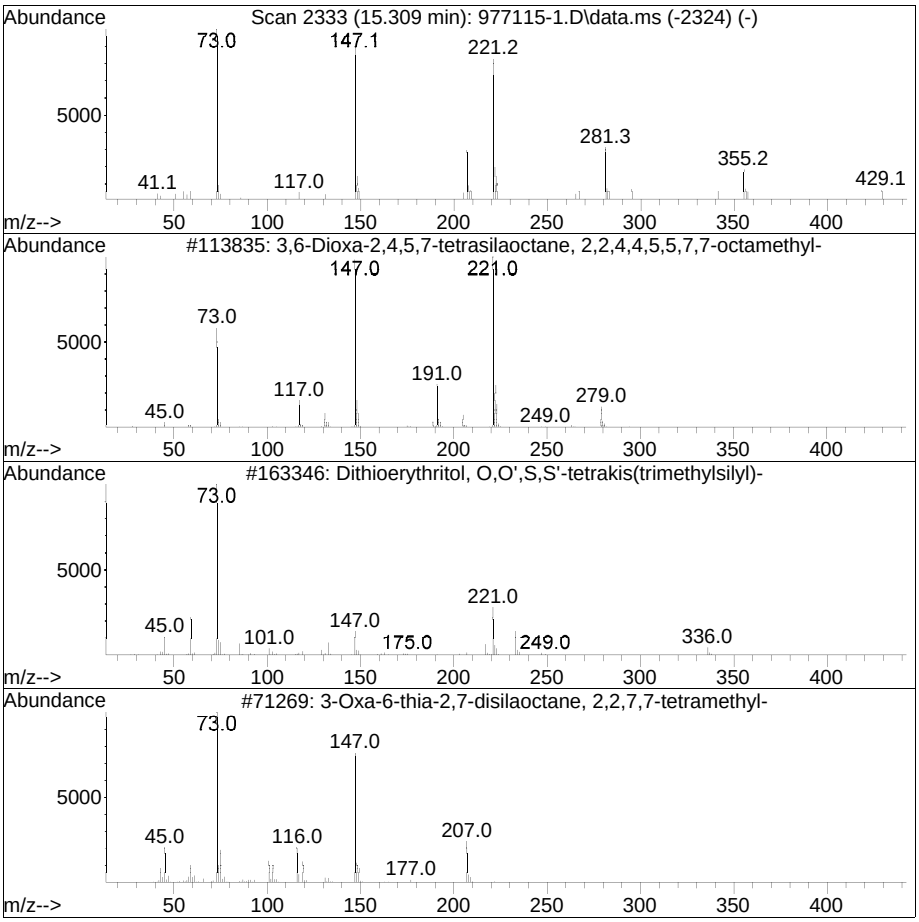
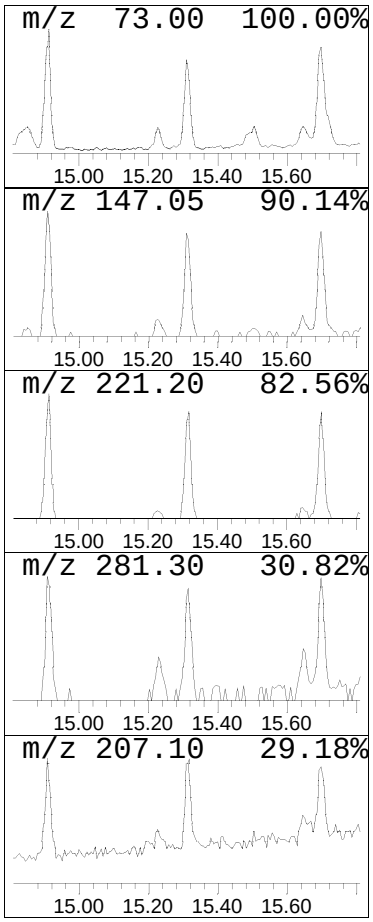
Peak Number 8 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.310	0.80 ug/ml	34317	IS1_Perylene-d12	15.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,6-Dioxa-2,4,5,7-tetrasilaoctan...	294	C10H30O2Si4	004342-25-0	45
2	Dithioerythritol, O,O',S,S'-tetr...	442	C16H42O2S2Si4	1000079-30-7	38
3	3-Oxa-6-thia-2,7-disilaoctane, 2...	222	C8H22OSSi2	078921-31-0	35
4	Trisiloxane, octamethyl-	236	C8H24O2Si3	000107-51-7	35
5	Pentasiloxane, dodecamethyl-	384	C12H36O4Si5	000141-63-9	35





Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

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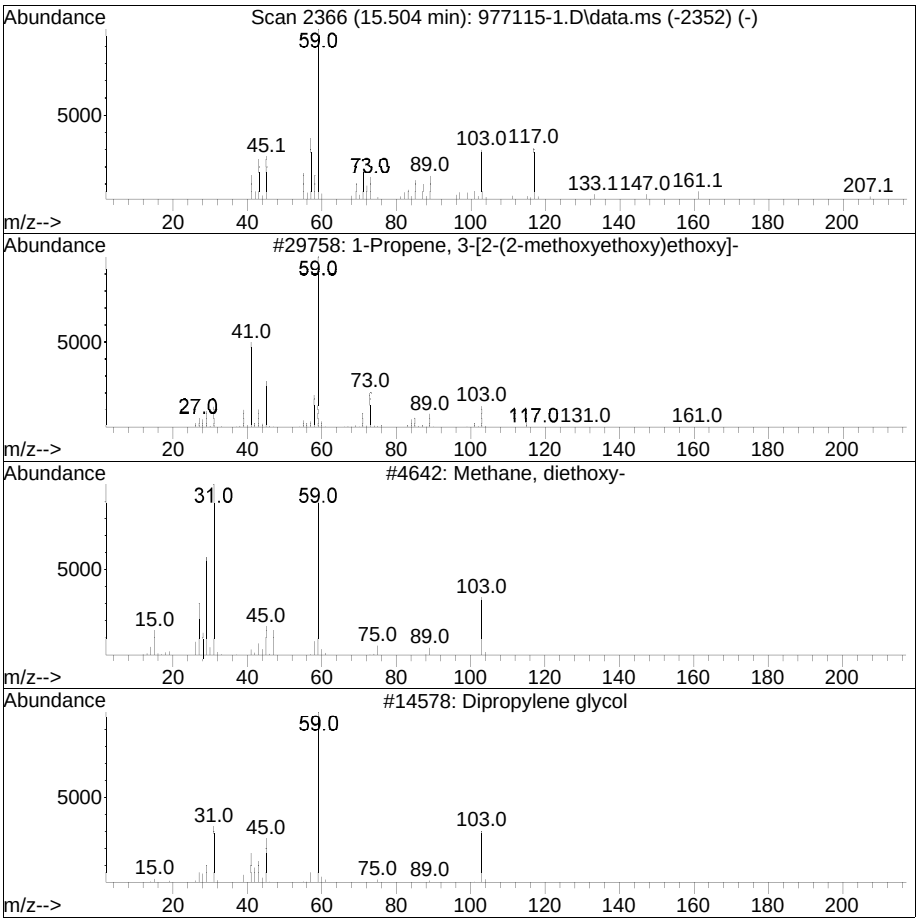
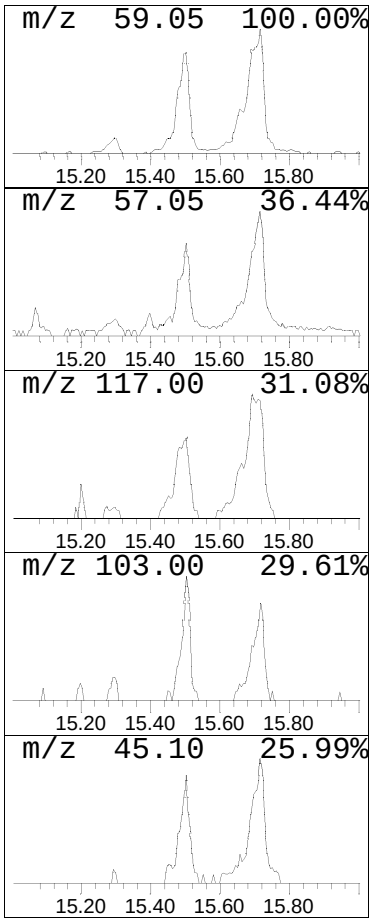
Peak Number 9 Unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.504	1.84 ug/ml	78391	IS1_Perylene-d12	15.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 3-[2-(2-methoxyethoxy...	160	C8H16O3	013752-97-1	53
2	Methane, diethoxy-	104	C5H12O2	000462-95-3	46
3	Dipropylene glycol	134	C6H14O3	025265-71-8	43
4	1-Propanol, 2,2'-oxybis-	134	C6H14O3	000108-61-2	43
5	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	43





Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

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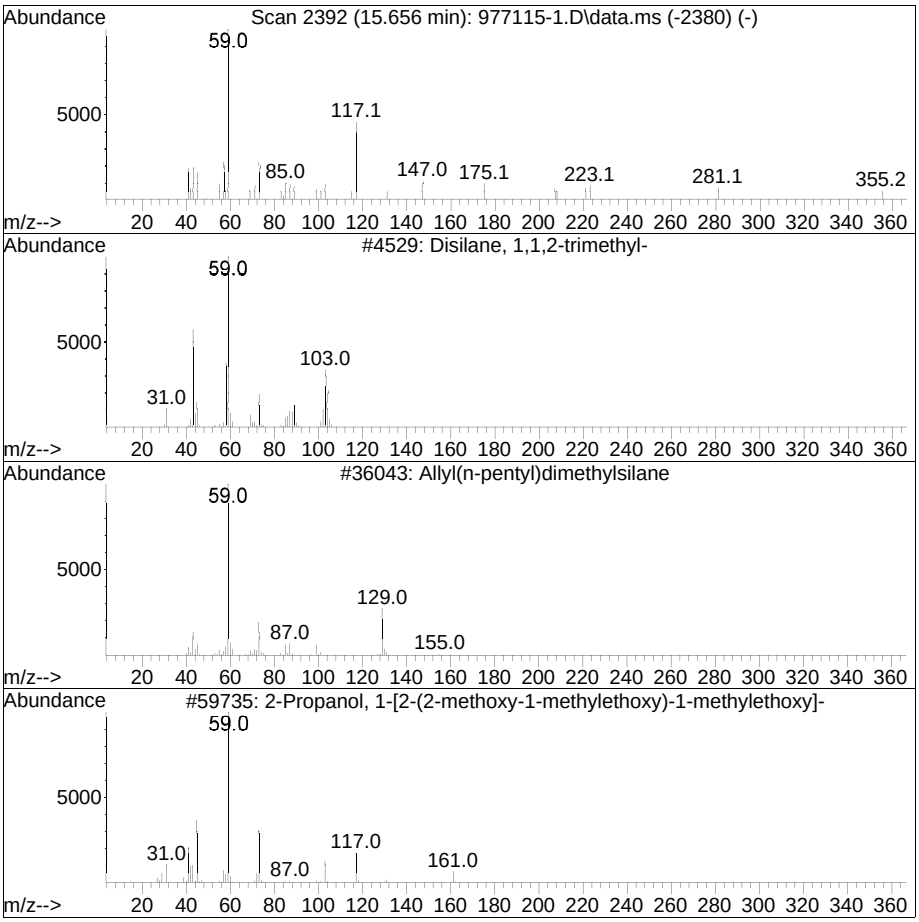
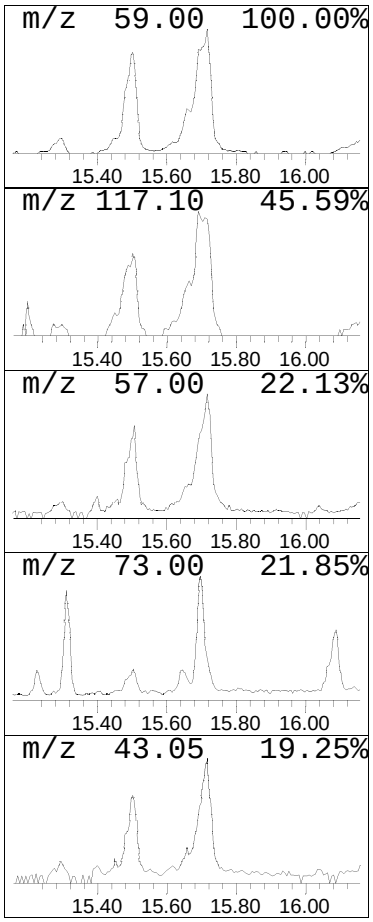
Peak Number 10 Unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.656	0.67 ug/ml	28405	IS1_Perylene-d12	15.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Disilane, 1,1,2-trimethyl-	104	C3H12Si2	000814-74-4	38
2	Allyl(n-pentyl)dimethylsilane	170	C10H22Si	136935-68-7	37
3	2-Propanol, 1-[2-(2-methoxy-1-me...	206	C10H22O4	020324-33-8	28
4	2,4-Diethyl-6-methyl-1,3,5-trioxane	160	C8H16O3	117888-04-7	27
5	1-Propene, 3-[2-(2-methoxyethoxy...	160	C8H16O3	013752-97-1	25





Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

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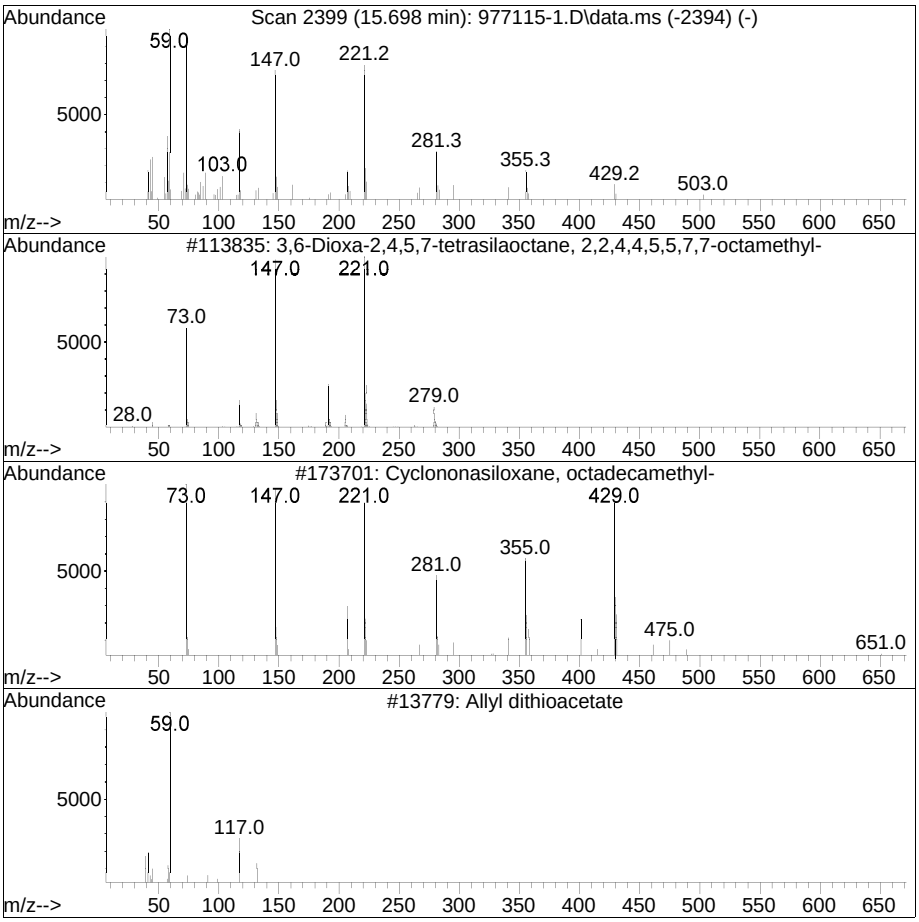
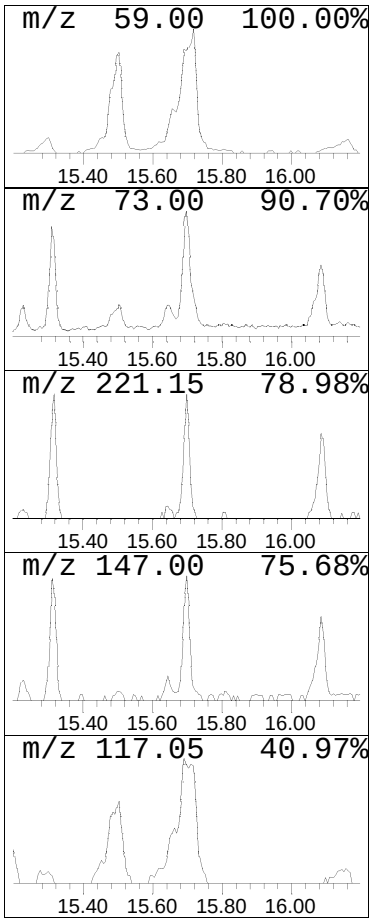
Peak Number 11 Unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.698	3.23 ug/ml	138081	IS1_Perylene-d12	15.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,6-Dioxa-2,4,5,7-tetrasilaoctan...	294	C10H30O2Si4	004342-25-0	43
2	Cyclononasiloxane, octadecamethyl-	666	C18H54O9Si9	000556-71-8	35
3	Allyl dithioacetate	132	C5H8S2	027249-83-8	22
4	Indane, 2-methoxy-1-(2-methylallyl)	202	C14H18O	1000196-88-9	22
5	Silane, [(1-methyl-1,3-propanedi...	234	C10H26O2Si2	056771-47-2	22





Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

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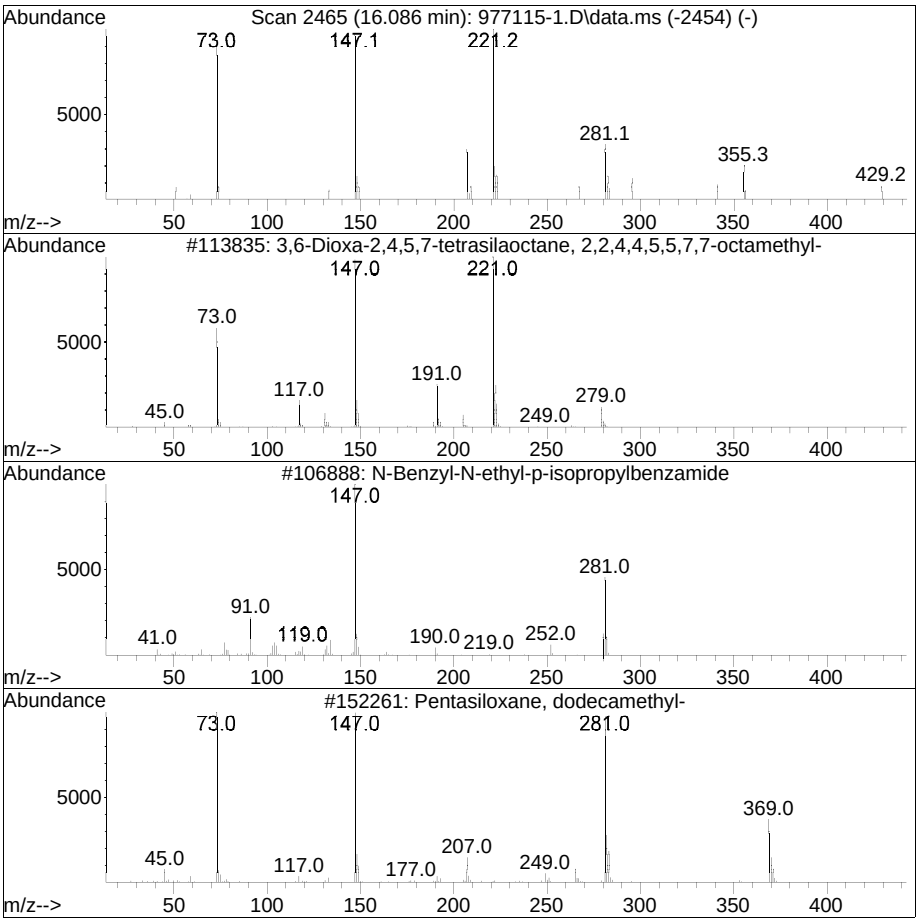
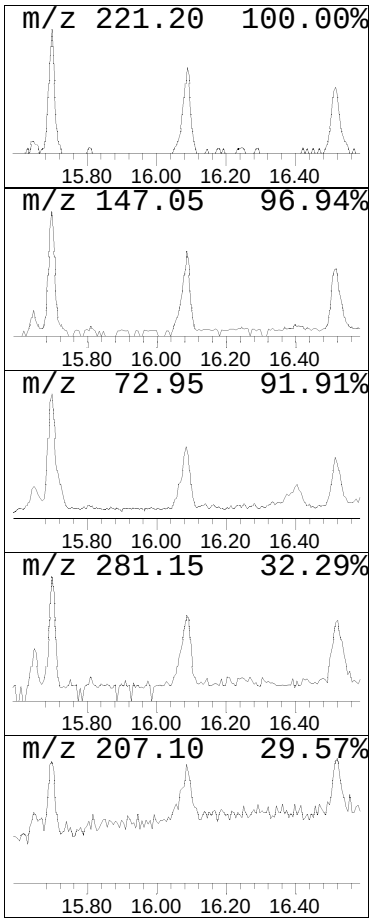
Peak Number 12 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.086	0.61 ug/ml	25841	IS1_Perylene-d12	15.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,6-Dioxa-2,4,5,7-tetrasilaoctan...	294	C10H30O2Si4	004342-25-0	40
2	N-Benzyl-N-ethyl-p-isopropylbenz...	281	C19H23NO	015089-22-2	27
3	Pentasiloxane, dodecamethyl-	384	C12H36O4Si5	000141-63-9	16
4	Trisiloxane, 1,1,1,5,5,5-hexamet...	384	C12H36O4Si5	003555-47-3	16
5	Mercaptoacetic acid, bis(trimeth...	236	C8H20O2SSi2	006398-62-5	14





Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

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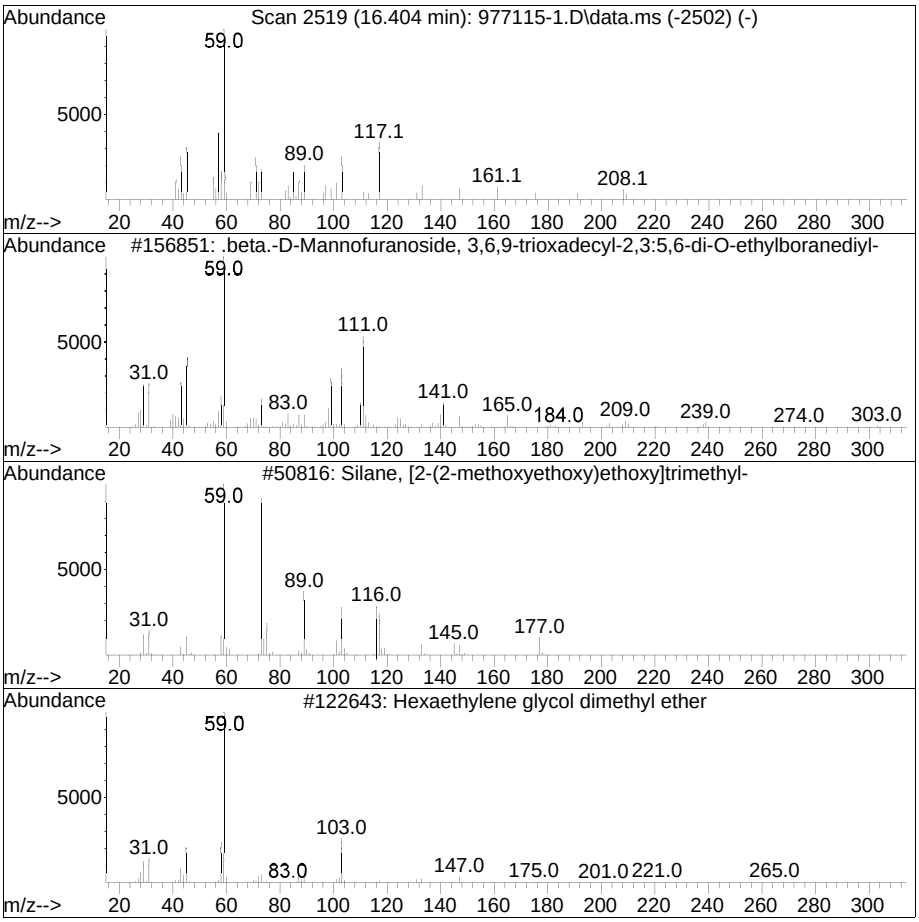
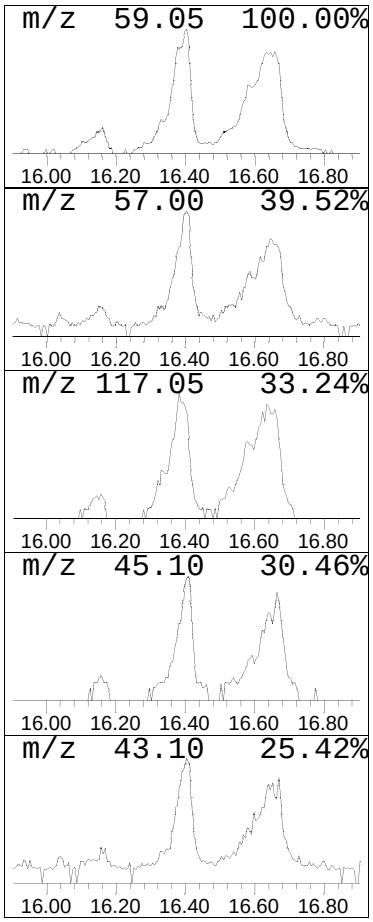
Peak Number 13 Unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.404	1.91 ug/ml	81598	IS1_Perylene-d12	15.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-D-Mannofuranoside, 3,6,9-...	402	C17H32B2O9	1000155-77-2	50
2	Silane, [2-(2-methoxyethoxy)etho...	192	C8H20O3Si	062199-57-9	40
3	Hexaethylene glycol dimethyl ether	310	C14H30O7	001072-40-8	38
4	Silane, ethyldimethyl-	88	C4H12Si	000758-21-4	38
5	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	35





Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

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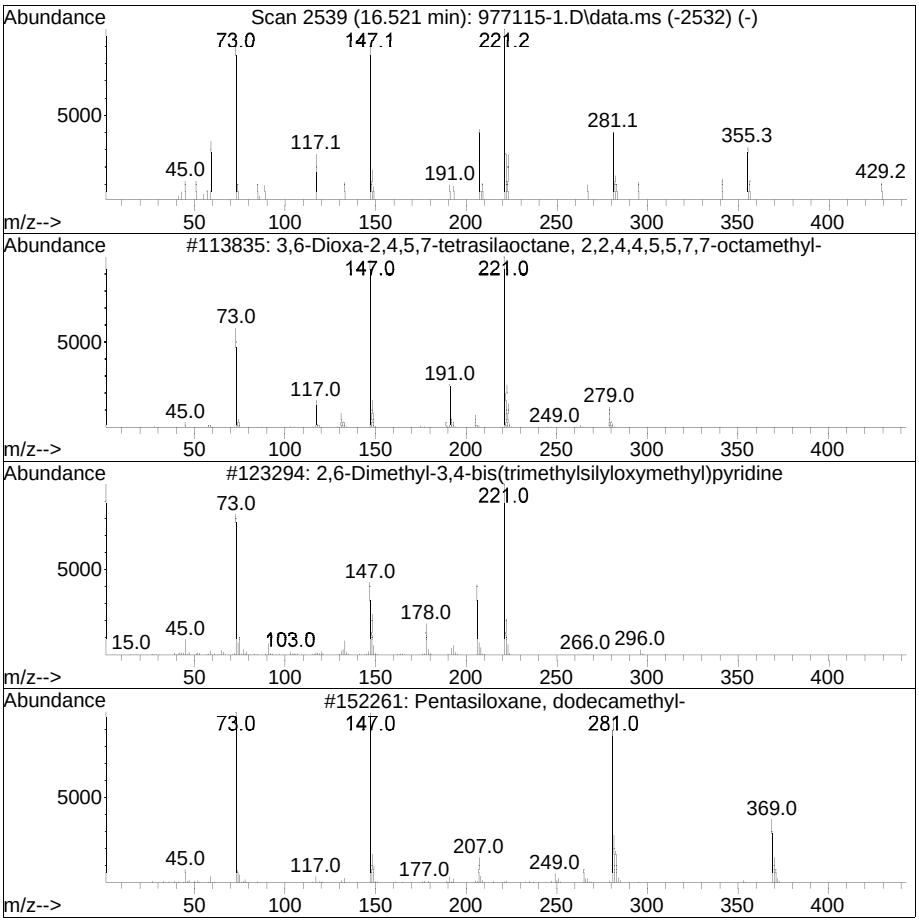
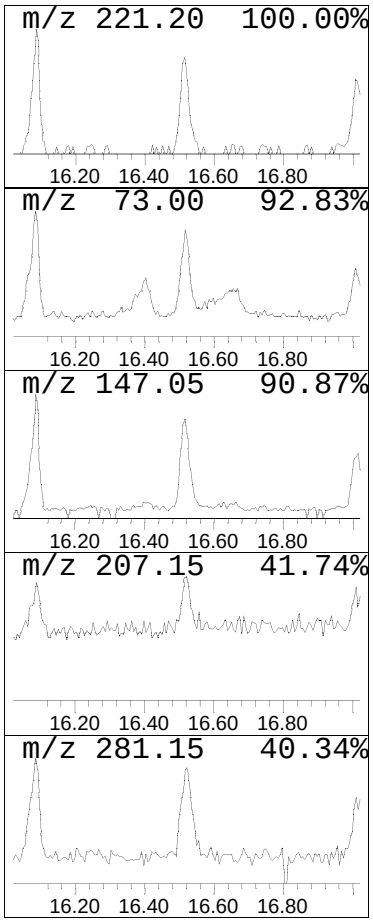
Peak Number 14 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.521	0.70 ug/ml	29979	IS1_Perylene-d12	15.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,6-Dioxa-2,4,5,7-tetrasilaoctan...	294	C10H30O2Si4	004342-25-0	37
2	2,6-Dimethyl-3,4-bis(trimethylsi...	311	C15H29NO2Si2	1000079-52-1	35
3	Pentasiloxane, dodecamethyl-	384	C12H36O4Si5	000141-63-9	27
4	Benzo[b]selenophene-3-carbonitri...	221	C10H7NSe	037007-54-8	14
5	2-Amino-4-(4-chloroanilino)-S-tr...	221	C9H8ClN5	000500-42-5	14





Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

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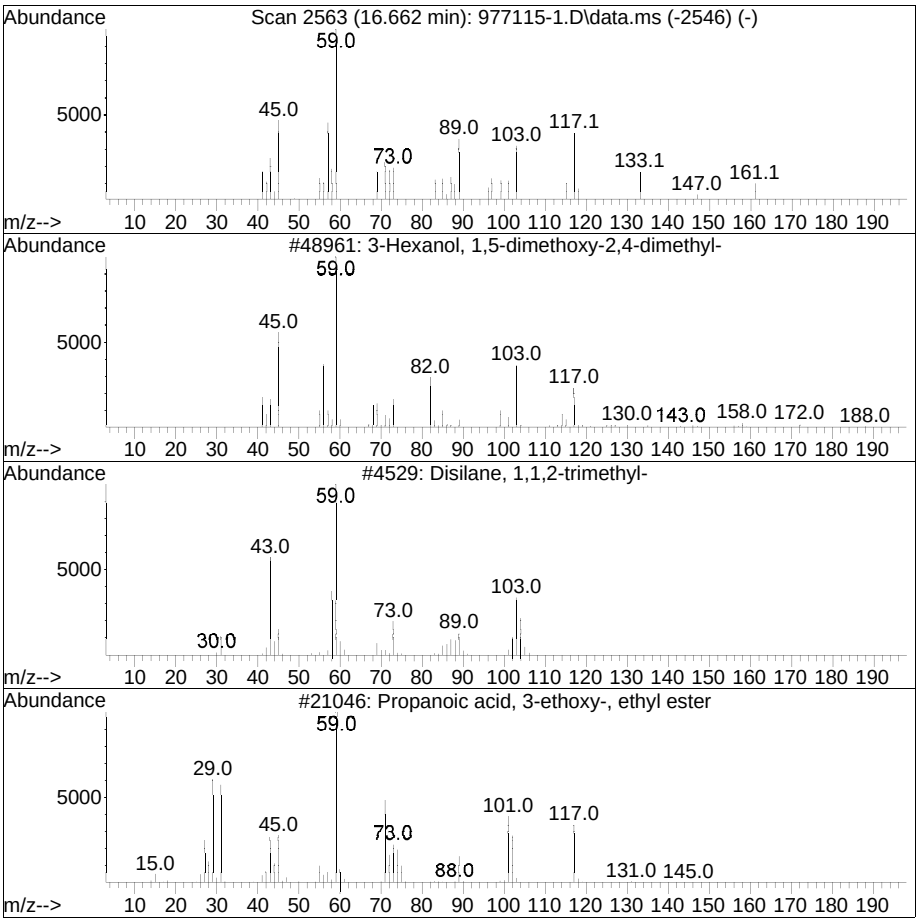
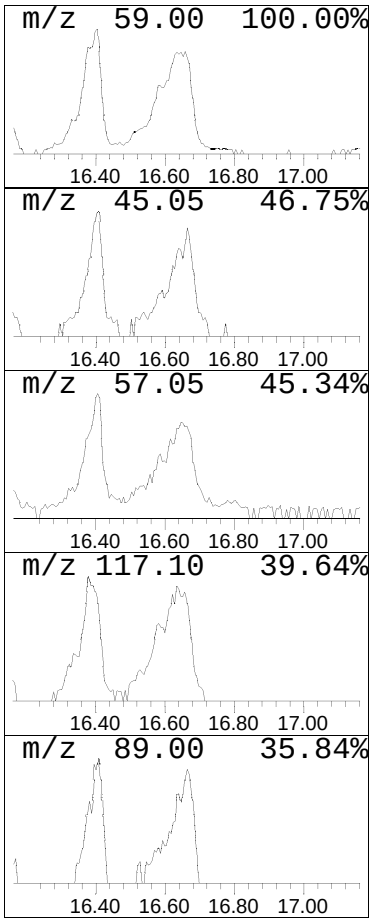
Peak Number 15 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.662	2.35 ug/ml	100465	IS1_Perylene-d12	15.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexanol, 1,5-dimethoxy-2,4-dim...	190	C10H22O3	013897-22-8	45
2	Disilane, 1,1,2-trimethyl-	104	C3H12Si2	000814-74-4	37
3	Propanoic acid, 3-ethoxy-, ethyl...	146	C7H14O3	000763-69-9	33
4	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	28
5	Ethanedioic acid, dimethyl ester	118	C4H6O4	000553-90-2	25





Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

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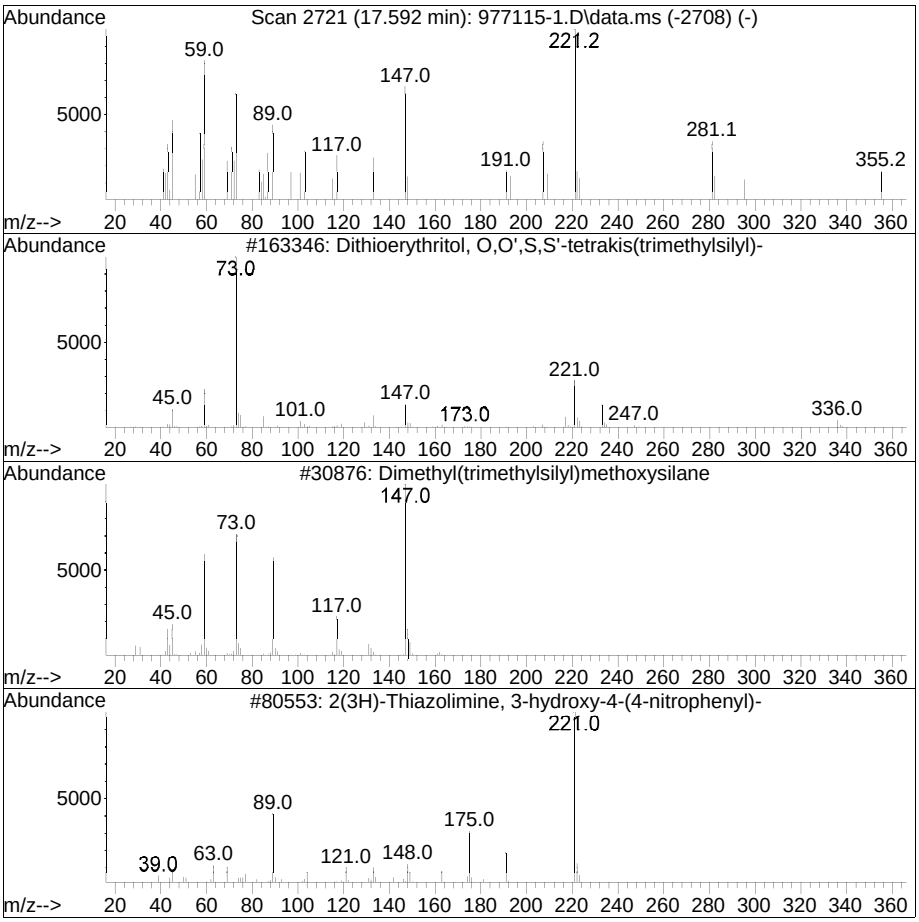
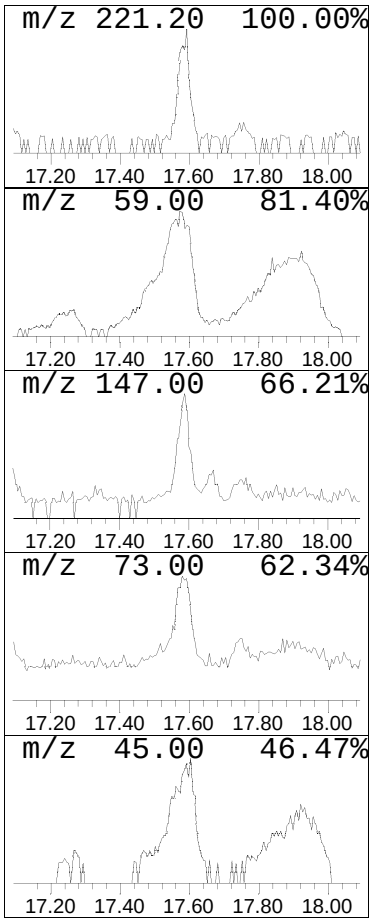
Peak Number 16 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.592	1.53 ug/ml	65480	IS1_Perylene-d12	15.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dithioerythritol, O,O',S,S'-tetr...	442	C16H42O2S2Si4	1000079-30-7	40
2	Dimethyl(trimethylsilyl)methoxys...	162	C6H18OSi2	018107-29-4	32
3	2(3H)-Thiazolimine, 3-hydroxy-4-...	237	C9H7N3O3S	058275-69-7	27
4	2-Amino-4-(4-nitrophenyl)thiazole	221	C9H7N3O2S	002104-09-8	27
5	3,6-Dioxa-2,4,5,7-tetrasilaoctan...	294	C10H30O2Si4	004342-25-0	27





Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-1.D
Acq On : 28 Sep 2024 12:45 am
Operator : SV107:jg
Sample : WG1977115-1,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	13.933	1.4	ug/ml	64683	12	13.727	182689	4.0
Unknown	14.039	0.7	ug/ml	29752	12	13.727	182689	4.0
Unknown	14.486	0.6	ug/ml	26477	13	15.198	170785	4.0
Unknown	14.627	1.1	ug/ml	47409	13	15.198	170785	4.0
Unknown	14.798	0.5	ug/ml	19703	13	15.198	170785	4.0
Unknown	14.851	2.5	ug/ml	108055	13	15.198	170785	4.0
Unknown Siloxane	14.910	0.8	ug/ml	33535	13	15.198	170785	4.0
Unknown	15.310	0.8	ug/ml	34317	13	15.198	170785	4.0
Unknown	15.504	1.8	ug/ml	78391	13	15.198	170785	4.0
Unknown	15.656	0.7	ug/ml	28405	13	15.198	170785	4.0
Unknown	15.698	3.2	ug/ml	138081	13	15.198	170785	4.0
Unknown	16.086	0.6	ug/ml	25841	13	15.198	170785	4.0
Unknown	16.404	1.9	ug/ml	81598	13	15.198	170785	4.0
Unknown	16.521	0.7	ug/ml	29979	13	15.198	170785	4.0
Unknown	16.662	2.4	ug/ml	100465	13	15.198	170785	4.0
Unknown	17.592	1.5	ug/ml	65480	13	15.198	170785	4.0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-2.D
Acq On : 28 Sep 2024 1:10 am
Operator : SV107:jg
Sample : WG1977115-2,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 28 14:04:44 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240927NRVT\ABN0927n.D
: 2 - I:\8270\SV107\240927NRVT\ADP0927n.D
: 3 - I:\8270\SV107\240927NRVT\AP90927n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.475	152	12577	4.000	ug/ml	0.00
Standard Area 1 = 14778			Recovery = 85.11%			
27) IS2_1,4-Dichlorobenzen...	6.475	152	12577	4.000	ug/ml	0.00
Standard Area 3 = 12952			Recovery = 97.10%			
32) IS3_1,4-Dichlorobenzen...	6.475	152	12577	4.000	ug/ml	0.00
Standard Area 2 = 12831			Recovery = 98.02%			
35) IS1_Naphthalene-d8	7.892	136	47960	4.000	ug/ml	0.00
Standard Area 1 = 54938			Recovery = 87.30%			
55) IS2_Naphthalene-d8	7.892	136	47960	4.000	ug/ml	0.00
Standard Area 3 = 49162			Recovery = 97.56%			
63) IS1_Acenaphthene-d10	9.651	164	28680	4.000	ug/ml	0.00
Standard Area 1 = 33659			Recovery = 85.21%			
83) IS2_Acenaphthene-d10	9.651	164	28680	4.000	ug/ml	0.00
Standard Area 3 = 29254			Recovery = 98.04%			
86) IS3_Acenaphthene-d10	9.651	164	28680	4.000	ug/ml	0.00
Standard Area 2 = 29357			Recovery = 97.69%			
88) IS1_Phenanthrene-d10	11.092	188	57421	4.000	ug/ml	0.00
Standard Area 1 = 70037			Recovery = 81.99%			
100) IS3_Phenanthrene-d10	11.092	188	57421	4.000	ug/ml	0.00
Standard Area 2 = 61933			Recovery = 92.71%			
104) IS1_Chrysene-d12	13.727	240	56450	4.000	ug/ml	0.00
Standard Area 1 = 61504			Recovery = 91.78%			
113) IS1_Perylene-d12	15.198	264	55718	4.000	ug/ml	0.00
Standard Area 1 = 65134			Recovery = 85.54%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.622	112	3318	0.977	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 48.85%			
7) Phenol-d6	6.098	99	3361	0.757	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 37.85%			
19) Nitrobenzene-d5	7.128	82	2415	0.562	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 56.20%			
46) 2-Fluorobiphenyl	9.010	172	5151	0.477	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 47.70%			
79) 2,4,6-Tribromophenol	10.422	330	1123	0.836	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 41.80%			

Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-2.D
Acq On : 28 Sep 2024 1:10 am
Operator : SV107:jg
Sample : WG1977115-2,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 28 14:04:44 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240927NRVT\ABN0927n.D
: 2 - I:\8270\SV107\240927NRVT\ADP0927n.D
: 3 - I:\8270\SV107\240927NRVT\AP90927n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.668	244	8180	0.603	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 60.30%

Target Compounds					Qvalue
6) 2-Chlorophenol	6.210	128	4804	1.180 ug/ml	93
8) Phenol	6.116	94	3832	0.778 ug/ml	99
14) Bis(2-chloroisopropyl)...	6.851	45	7924	1.558 ug/ml#	63
15) 2-Methylphenol	6.845	108	4125	1.165 ug/ml	97
17) n-Nitrosodi-n-propylamine	6.998	70	3470	1.280 ug/ml#	83
18) 3-Methylphenol/4-Methy...	7.028	108	4480	1.148 ug/ml	100
20) Nitrobenzene	7.145	77	5163	1.252 ug/ml	96
21) Isophorone	7.422	82	9621	1.306 ug/ml	93
22) 2-Nitrophenol	7.504	139	2441	1.165 ug/ml#	89
23) 2,4-Dimethylphenol	7.598	107	3384	0.995 ug/ml	97
24) Bis(2-chloroethoxy)met...	7.692	93	6391	1.282 ug/ml#	97
25) 2,4-Dichlorophenol	7.763	162	4594	1.238 ug/ml	95
28) Benzaldehyde	5.910	105	3701	1.028 ug/ml	89
29) Acetophenone	6.969	105	7820	1.224 ug/ml#	92
38) 4-Chloroaniline	7.992	65	1662	1.097 ug/ml	97
40) p-Chloro-m-cresol	8.516	107	4772	1.407 ug/ml	95
43) Hexachlorocyclopentadiene	8.804	237	1180	0.465 ug/ml#	84
44) 2,4,6-Trichlorophenol	8.928	196	3459	1.233 ug/ml	99
45) 2,4,5-Trichlorophenol	8.957	196	3849	1.291 ug/ml	99
48) 2-Nitroaniline	9.222	138	3085	1.261 ug/ml	97
51) Dimethyl phthalate	9.422	163	13515	1.307 ug/ml#	95
53) 2,6-Dinitrotoluene	9.463	165	2533	1.251 ug/ml	88
60) Caprolactam	8.310	55	1072	1.060 ug/ml#	76
61) 1,2,4,5-Tetrachloroben...	8.804	216	3807	0.715 ug/ml	99
62) Biphenyl	9.104	154	11139	0.897 ug/ml	98
64) 3-Nitroaniline	9.622	138	2883	1.256 ug/ml#	95
66) 2,4-Dinitrophenol	9.722	184	1412	1.818 ug/ml	90
67) Dibenzofuran	9.857	168	15140	1.124 ug/ml	98
68) 2,4-Dinitrotoluene	9.857	165	3654	1.248 ug/ml	96
69) 4-Nitrophenol	9.810	65	1868	1.030 ug/ml#	89
72) Diethyl phthalate	10.116	149	14299	1.503 ug/ml	99
74) 4-Chlorophenyl phenyl ...	10.204	204	5747	1.124 ug/ml	97
75) 4-Nitroaniline	10.210	138	2906	1.266 ug/ml#	85

Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-2.D
Acq On : 28 Sep 2024 1:10 am
Operator : SV107:jg
Sample : WG1977115-2,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 28 14:04:44 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240927NRVT\ABN0927n.D
: 2 - I:\8270\SV107\240927NRVT\ADP0927n.D
: 3 - I:\8270\SV107\240927NRVT\AP90927n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 4,6-Dinitro-o-cresol	10.245	198	2115	1.559	ug/ml#	80
77) NDPA/DPA	10.322	169	10737	1.285	ug/ml	96
80) 4-Bromophenyl phenyl e...	10.674	248	3162	1.146	ug/ml	96
87) Atrazine	10.857	200	3979	1.764	ug/ml	93
91) Carbazole	11.327	167	19300	1.353	ug/ml	98
92) Di-n-butylphthalate	11.710	149	26022	1.657	ug/ml	99
97) Butyl benzyl phthalate	13.192	149	12103	1.818	ug/ml	88
106) 3,3'-Dichlorobenzidine	13.715	252	7311	1.132	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	13.827	149	20229	1.932	ug/ml#	93
109) Di-n-octylphthalate	14.509	149	33284	2.012	ug/ml#	72

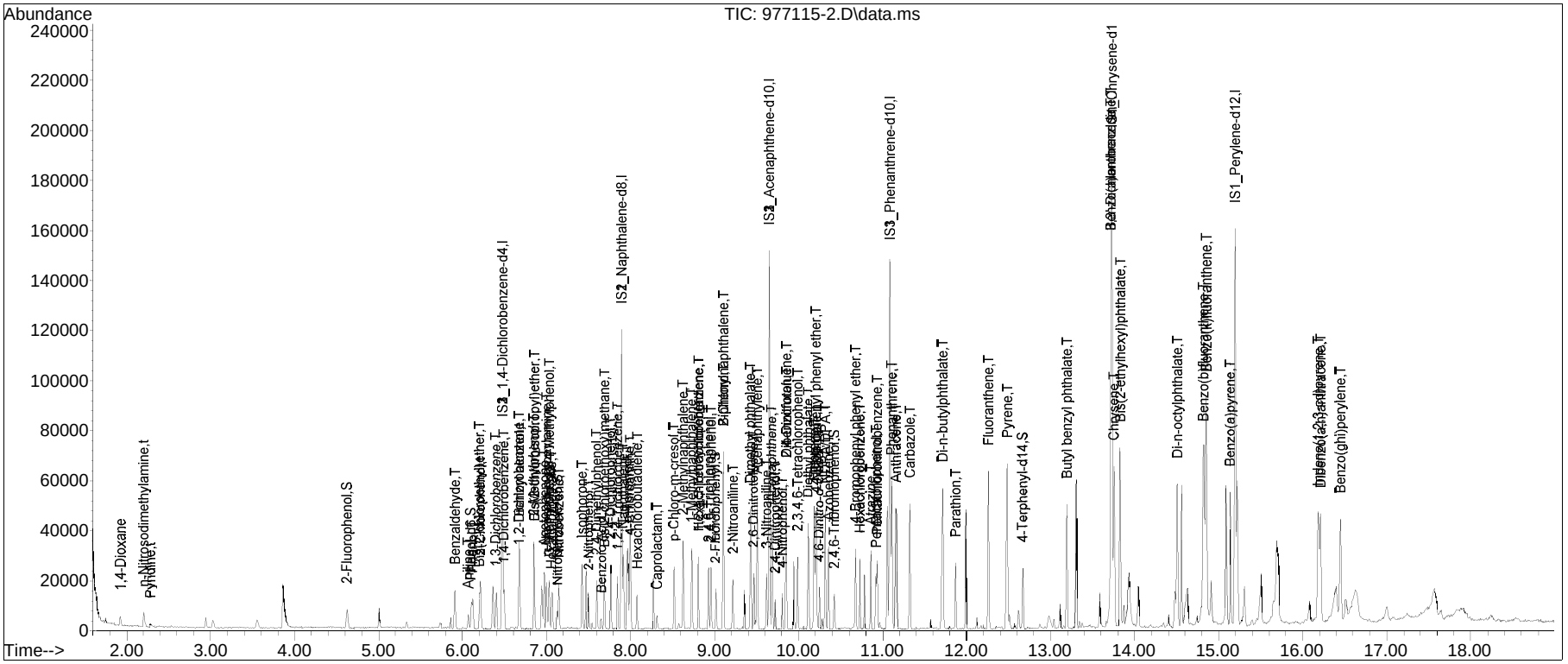
(#) = qualifier out of range (m) = manual integration (+) = signals summed

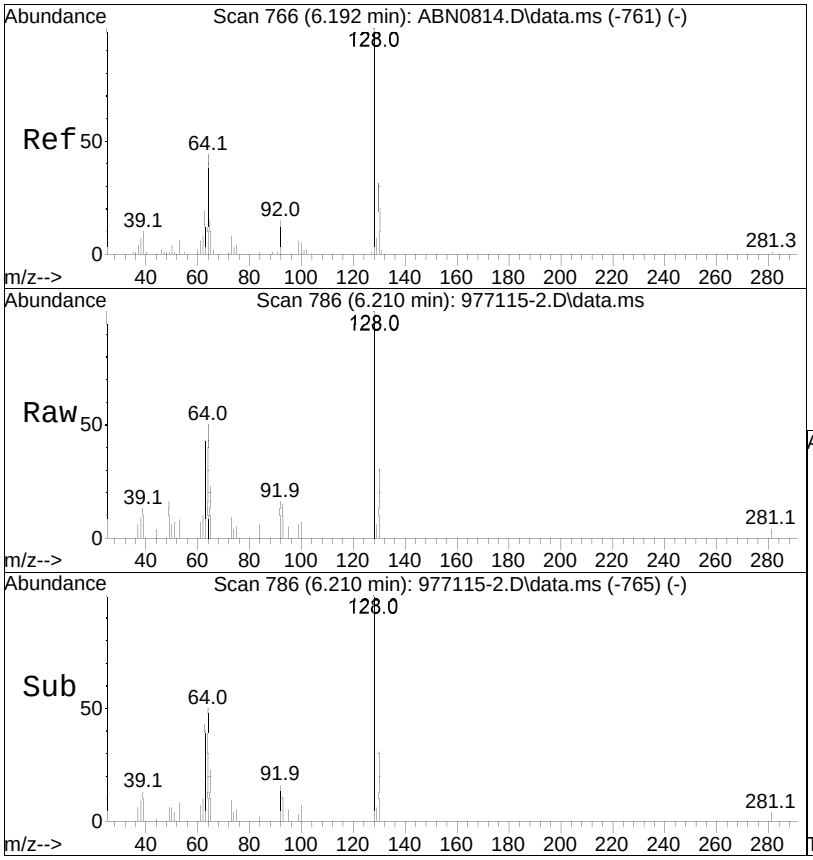
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-2.D
Acq On : 28 Sep 2024 1:10 am
Operator : SV107:jg
Sample : WG1977115-2,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 28 14:04:44 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MANRVT\AP90927n.D•

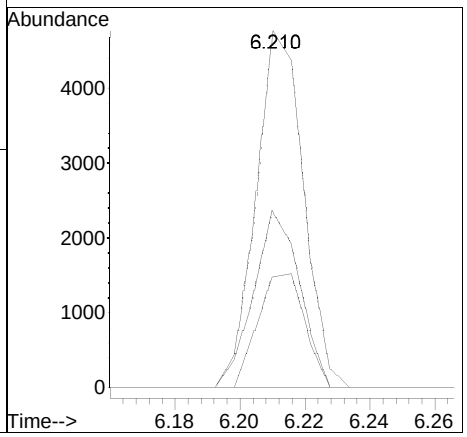


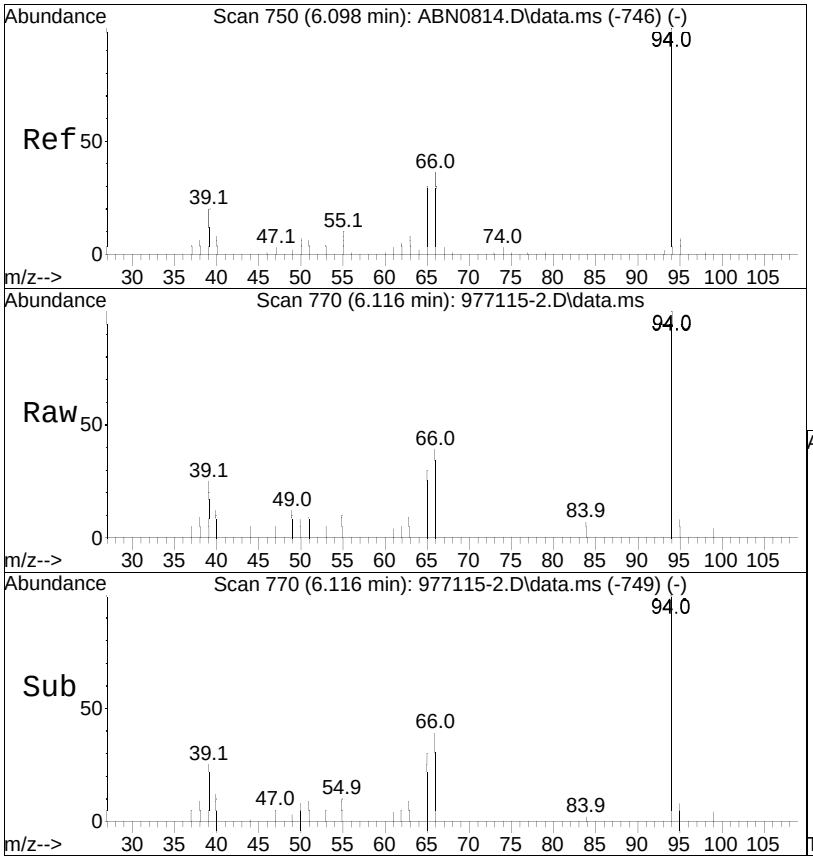


#6
2-Chlorophenol
Concen: 1.18 ug/ml
RT: 6.210 min Scan# 786
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:128 Resp: 4804

Ion	Ratio	Lower	Upper
128	100		
64	48.5	45.1	67.7
130	31.8	26.2	39.4

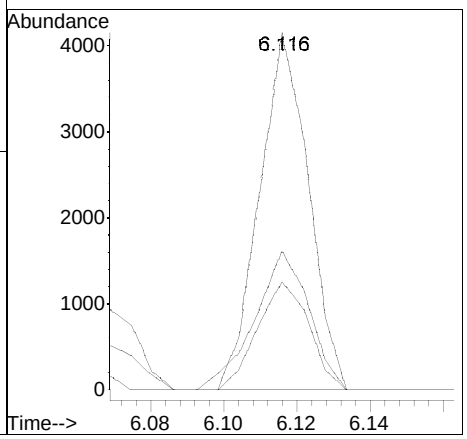


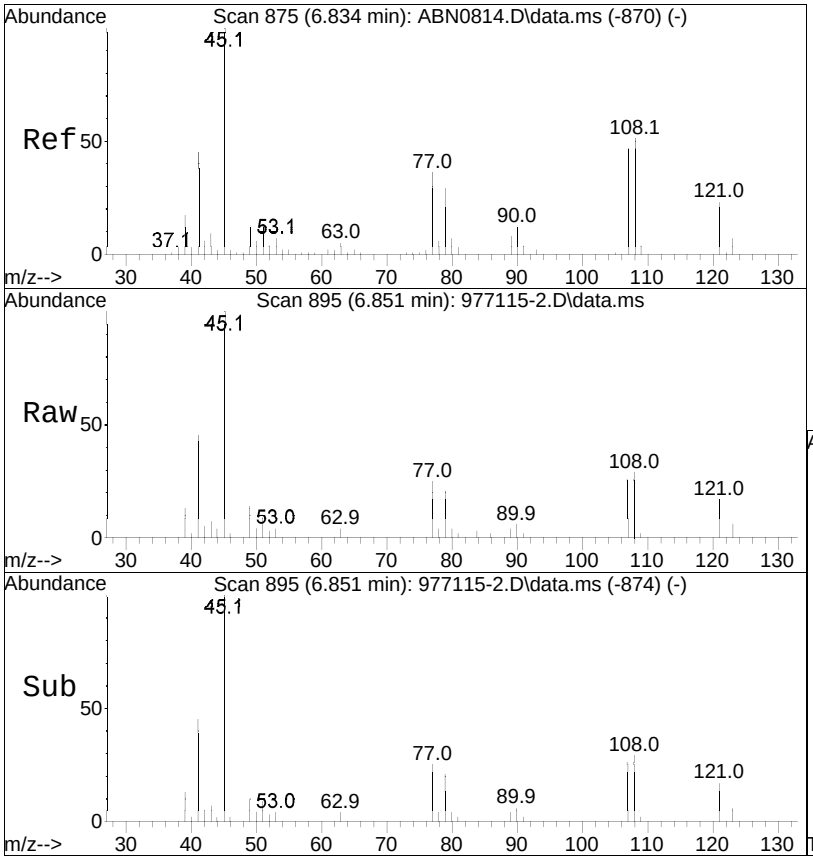


#8
Phenol
Concen: 0.78 ug/ml
RT: 6.116 min Scan# 770
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion: 94 Resp: 3832

Ion	Ratio	Lower	Upper
94	100		
65	31.9	26.0	39.0
66	43.2	33.8	50.8

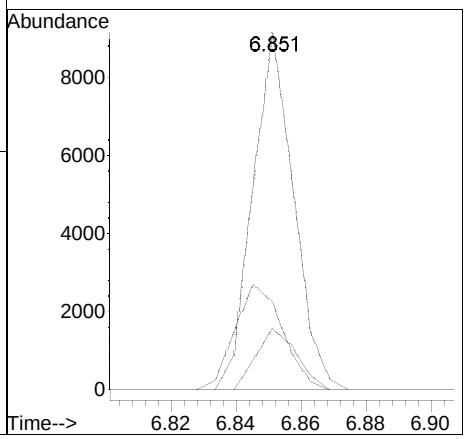


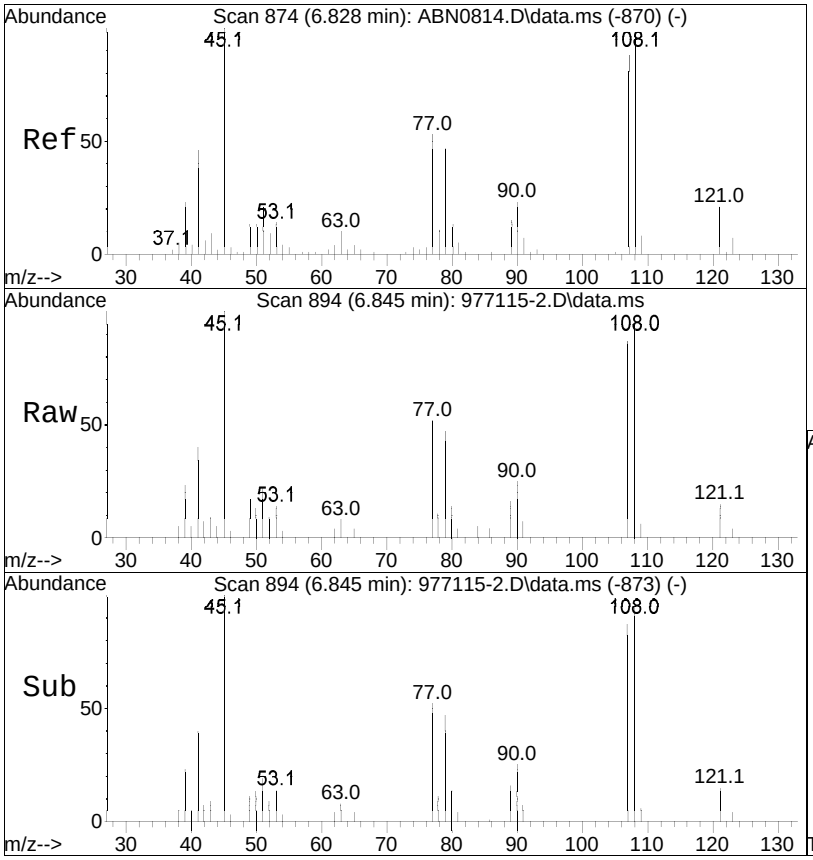


#14
Bis(2-chloroisopropyl)ether
Concen: 1.56 ug/ml
RT: 6.851 min Scan# 895
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion: 45 Resp: 7924

Ion	Ratio	Lower	Upper
45	100		
121	17.0	9.8	14.6#
77	34.8	6.1	9.1#

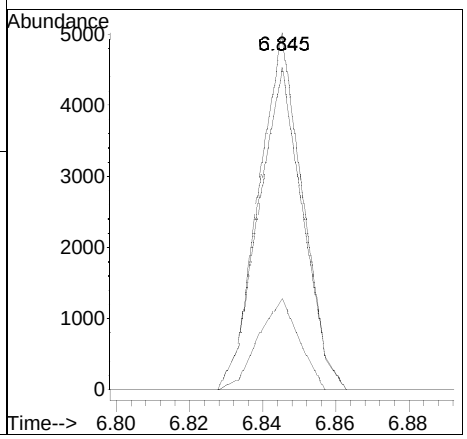


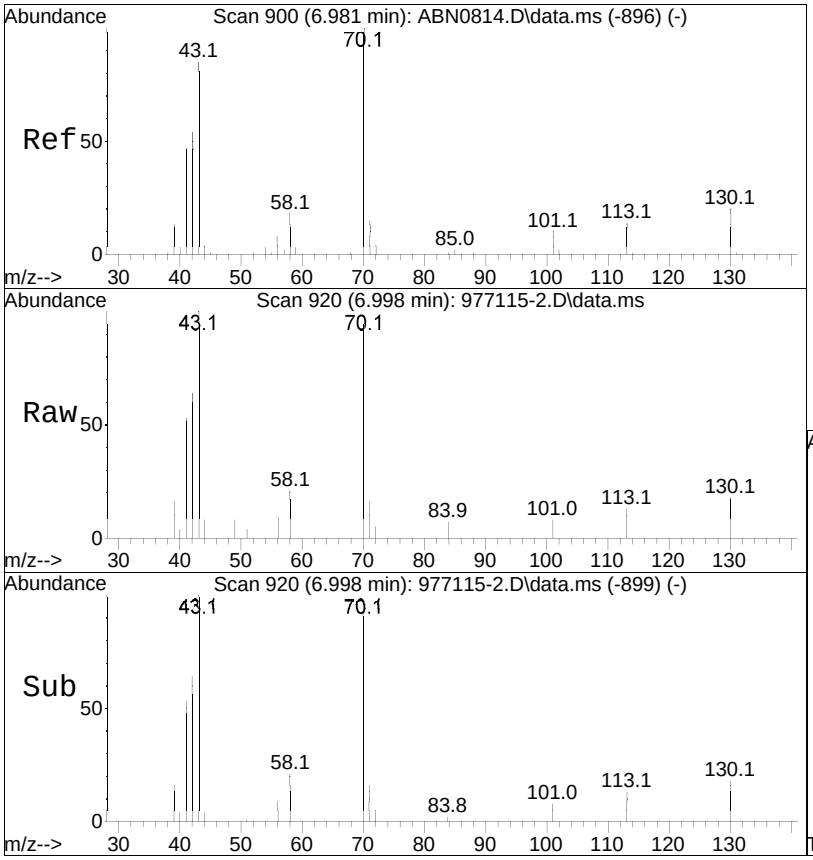


#15
2-Methylphenol
Concen: 1.16 ug/ml
RT: 6.845 min Scan# 894
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:108 Resp: 4125

Ion	Ratio	Lower	Upper
108	100		
107	91.6	70.7	106.1
90	23.9	18.7	28.1

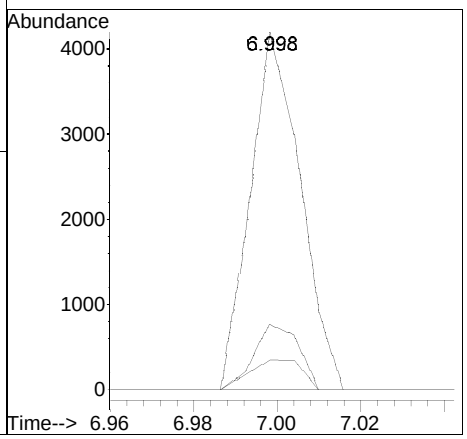


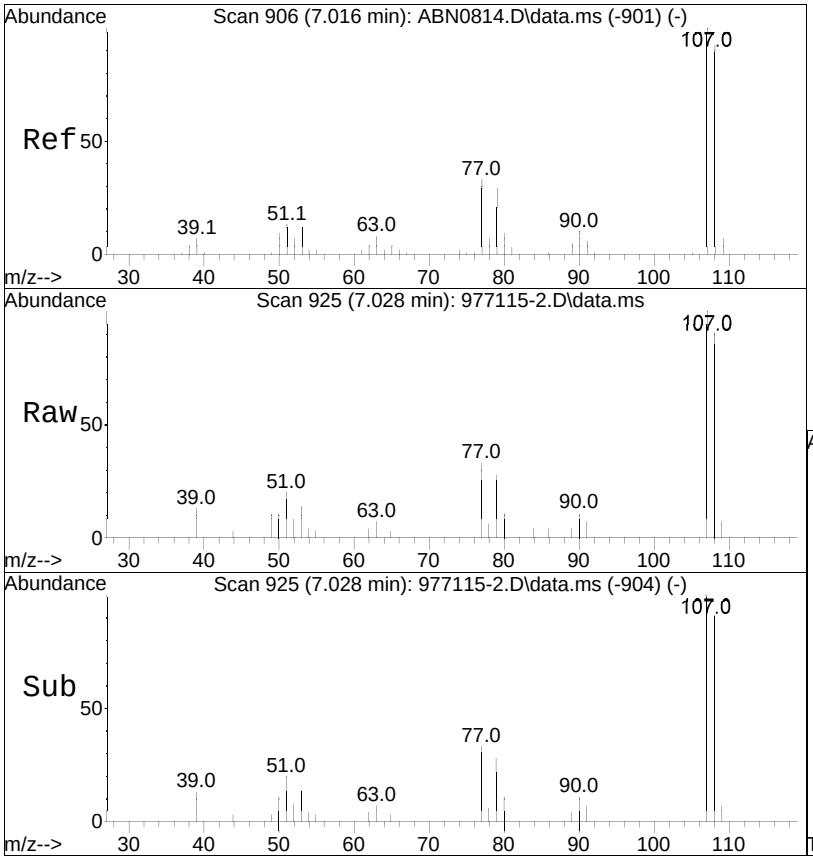


#17
n-Nitrosodi-n-propylamine
Concen: 1.28 ug/ml
RT: 6.998 min Scan# 920
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion: 70 Resp: 3470

Ion	Ratio	Lower	Upper
70	100		
130	16.5	18.2	27.4#
101	0.0	7.8	11.8#

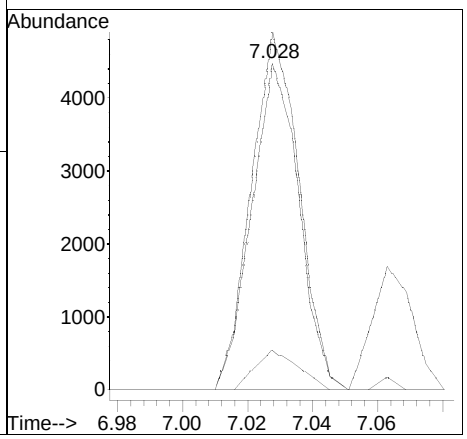


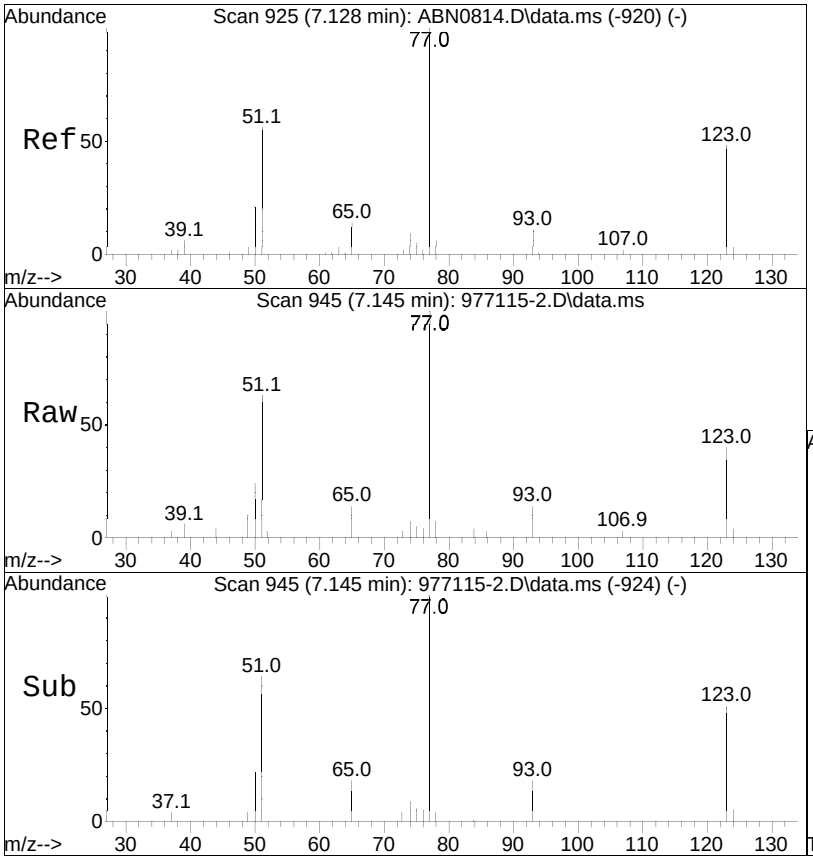


#18
3-Methylphenol/4-Methylphenol
Concen: 1.15 ug/ml
RT: 7.028 min Scan# 925
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:108 Resp: 4480

Ion	Ratio	Lower	Upper
108	100		
107	111.2	88.6	132.8
90	11.1	8.8	13.2

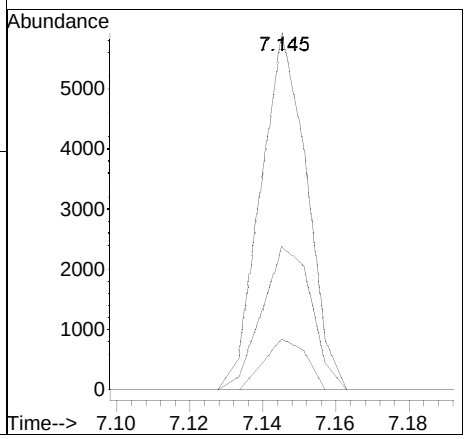


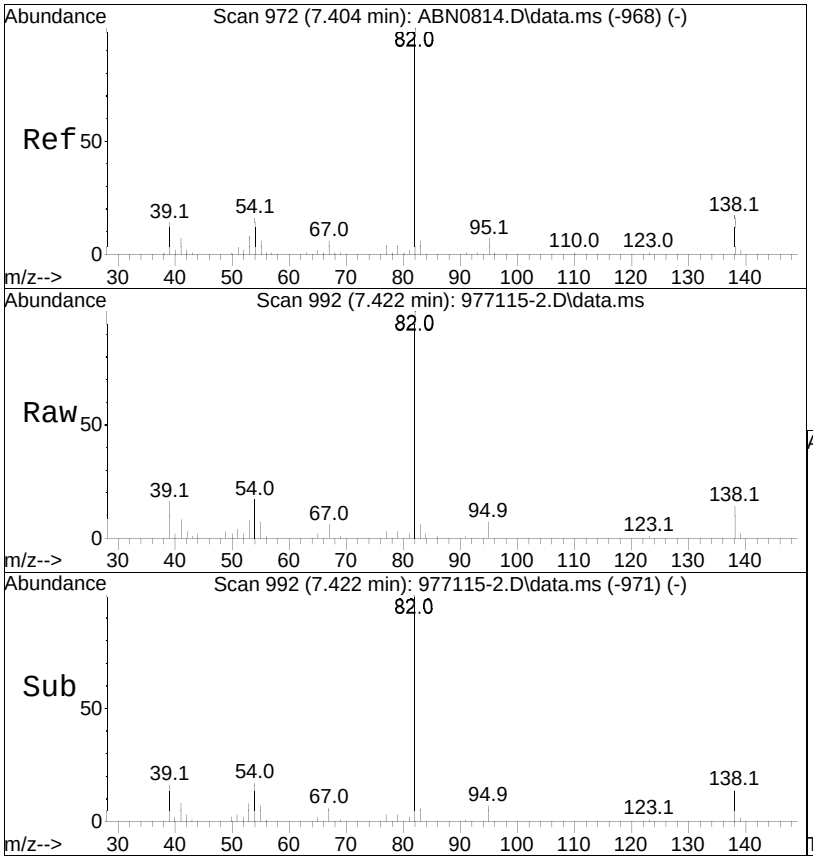


#20
Nitrobenzene
Concen: 1.25 ug/ml
RT: 7.145 min Scan# 945
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion: 77 Resp: 5163

Ion	Ratio	Lower	Upper
77	100		
123	43.1	36.3	54.5
65	13.0	11.6	17.4

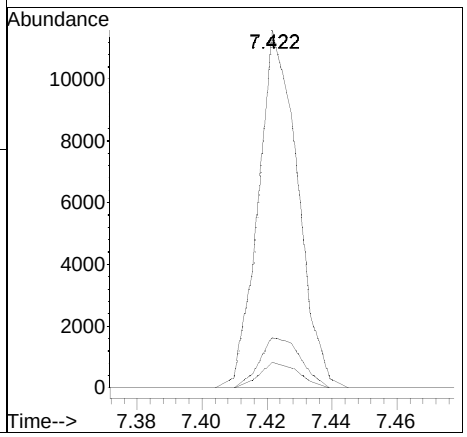


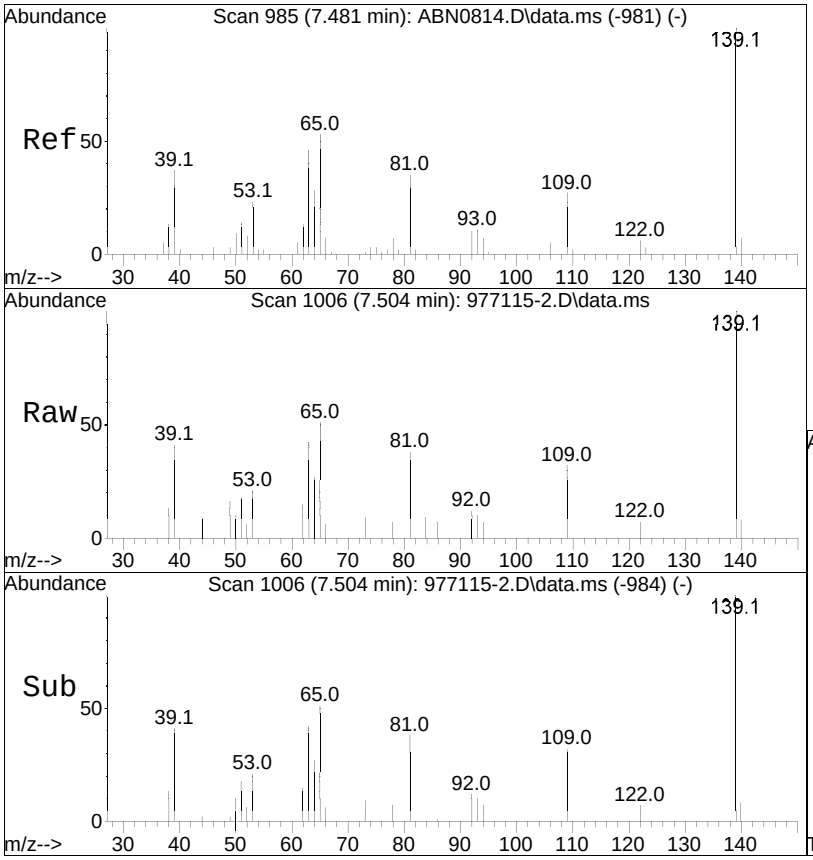


#21
Isophorone
Concen: 1.31 ug/ml
RT: 7.422 min Scan# 992
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion: 82 Resp: 9621

Ion	Ratio	Lower	Upper
82	100		
138	14.7	14.7	22.1
95	7.1	5.2	7.8

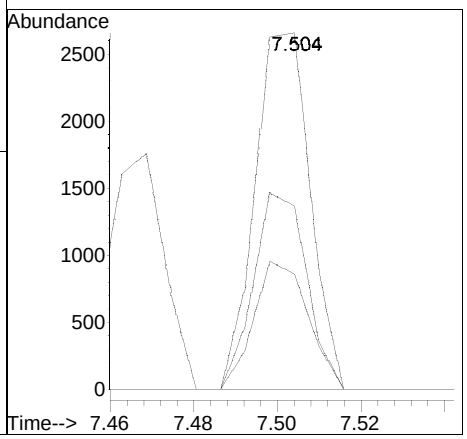


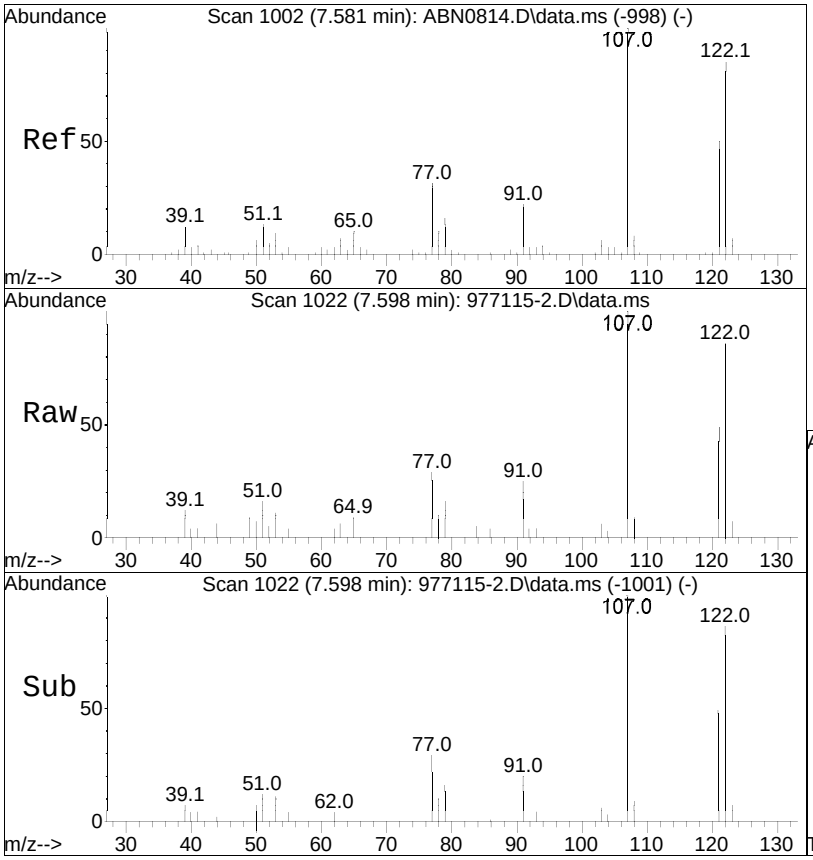


#22
2-Nitrophenol
Concen: 1.16 ug/ml
RT: 7.504 min Scan# 1006
Delta R.T. 0.006 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:139 Resp: 2441

Ion	Ratio	Lower	Upper
139	100		
109	35.3	19.4	29.0#
65	53.0	46.1	69.1

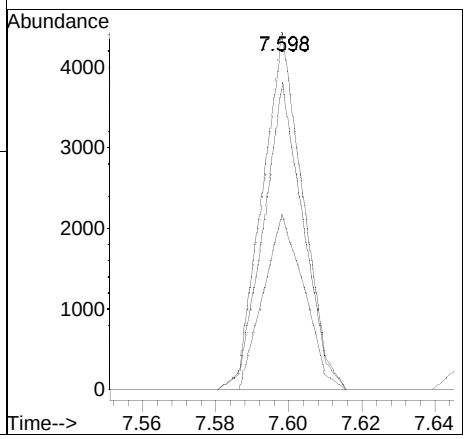


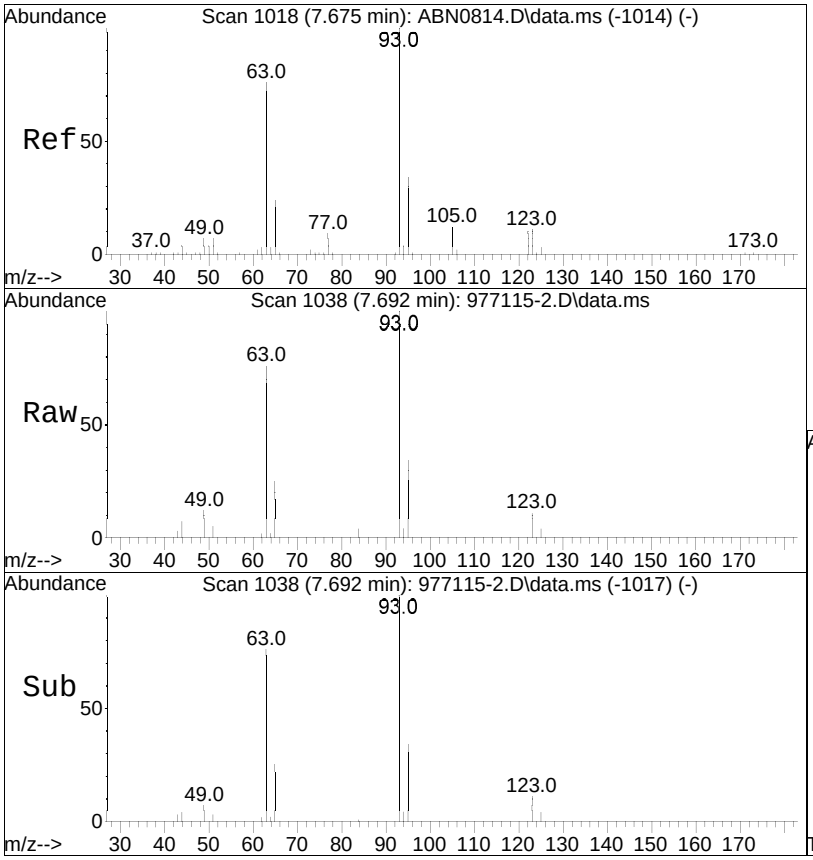


#23
2,4-Dimethylphenol
Concen: 1.00 ug/ml
RT: 7.598 min Scan# 1022
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:107 Resp: 3384

Ion	Ratio	Lower	Upper
107	100		
121	49.0	40.0	60.0
122	84.2	70.2	105.4

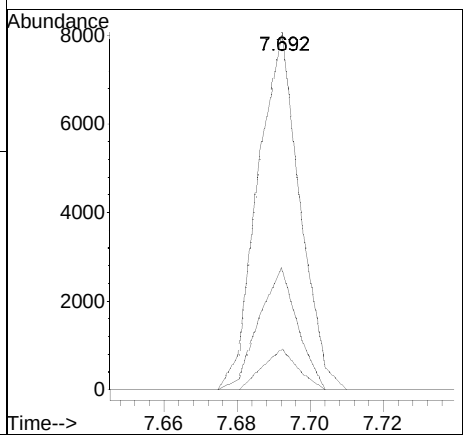


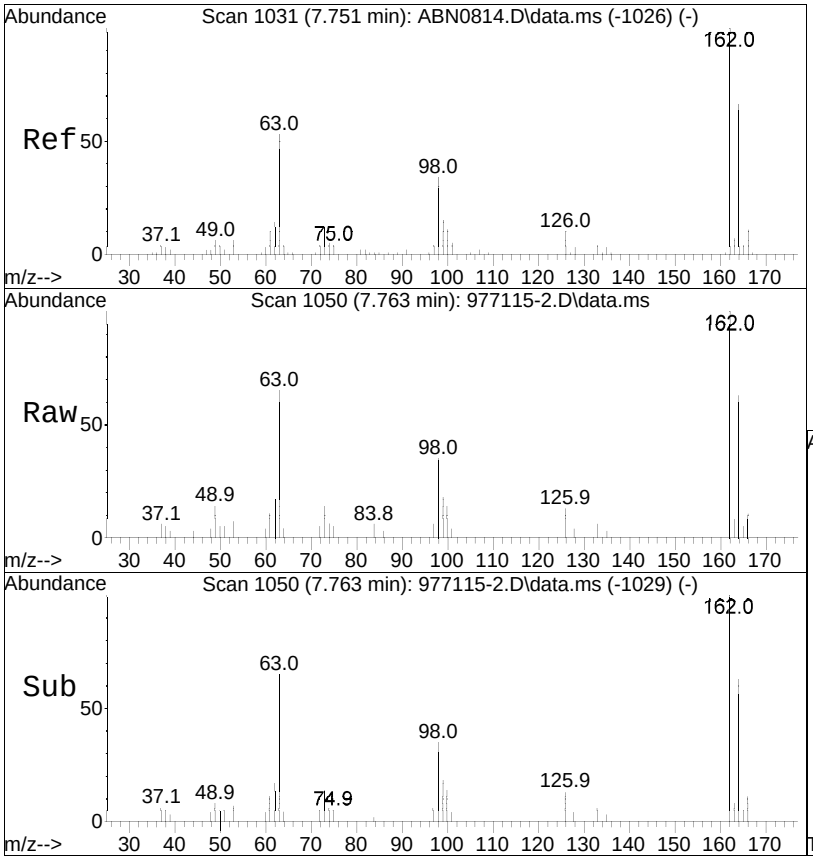


#24
Bis(2-chloroethoxy)methane
Concen: 1.28 ug/ml
RT: 7.692 min Scan# 1038
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion: 93 Resp: 6391

Ion	Ratio	Lower	Upper
93	100		
95	31.4	25.8	38.8
123	9.6	10.1	15.1#

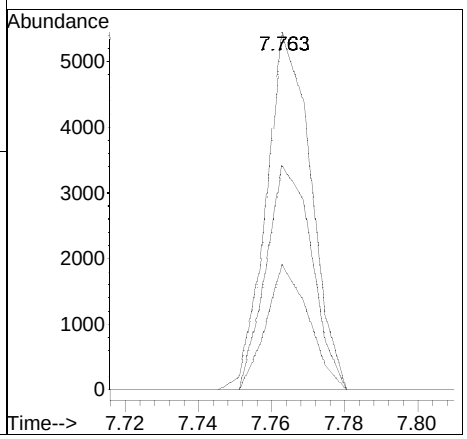


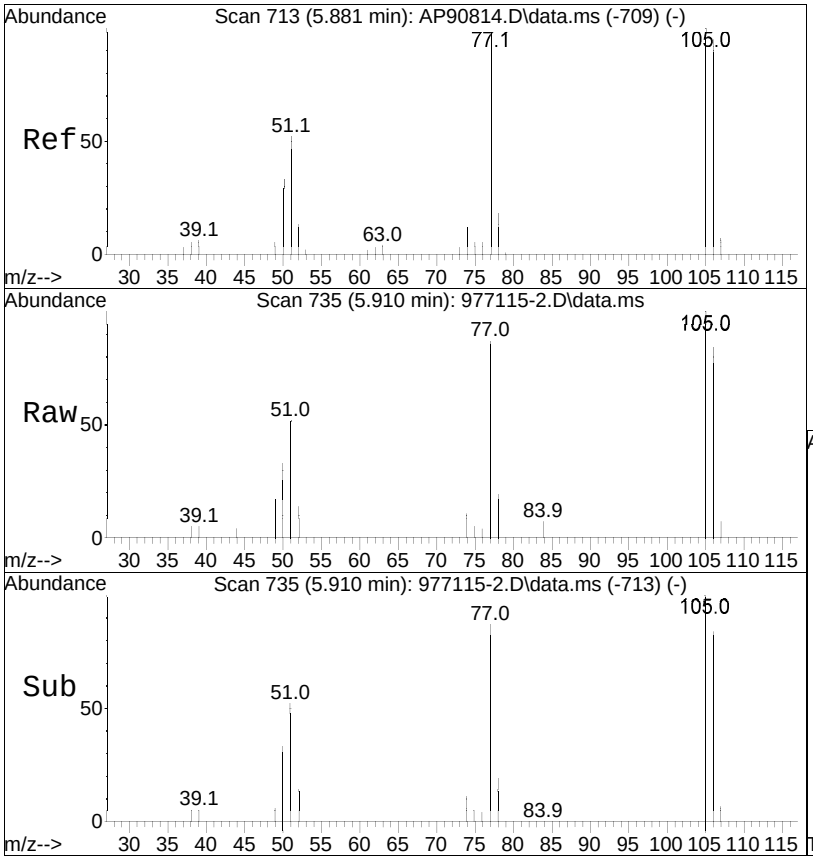


#25
2,4-Dichlorophenol
Concen: 1.24 ug/ml
RT: 7.763 min Scan# 1050
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:162 Resp: 4594

Ion	Ratio	Lower	Upper
162	100		
164	64.2	51.0	76.4
98	33.3	32.2	48.2

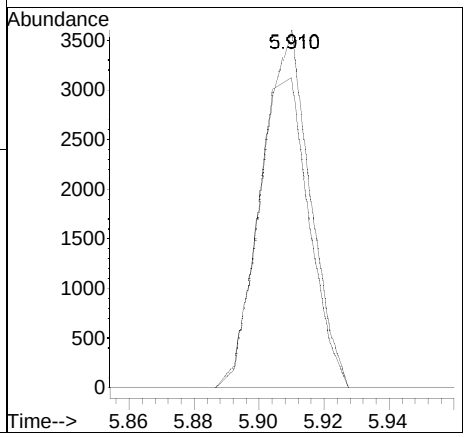


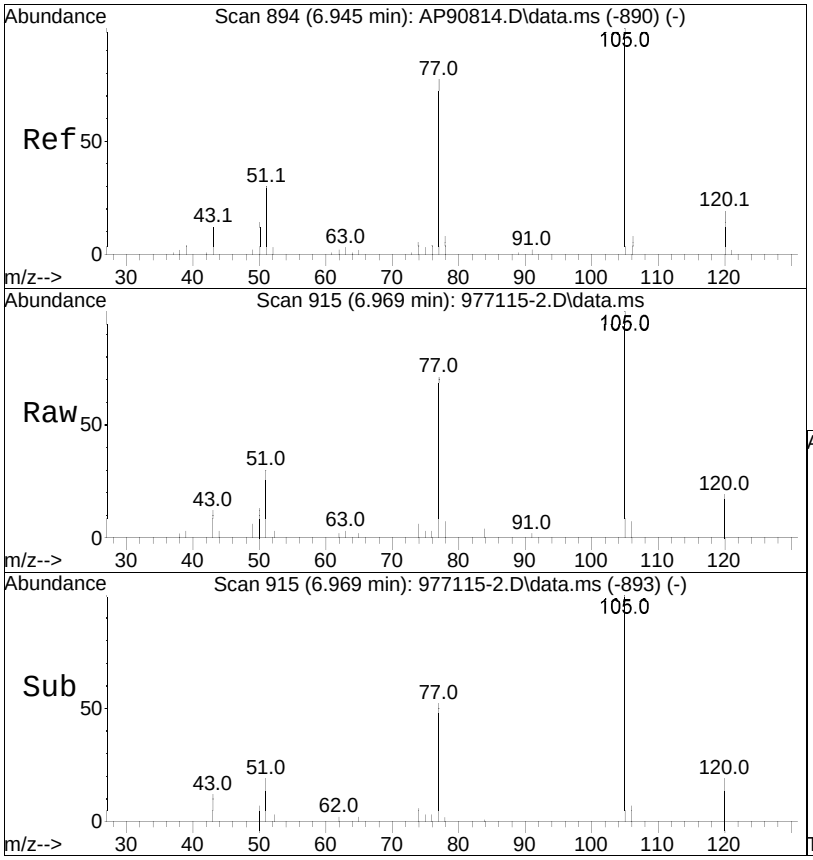


#28
Benzaldehyde
Concen: 1.03 ug/ml
RT: 5.910 min Scan# 735
Delta R.T. 0.006 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:105 Resp: 3701

Ion	Ratio	Lower	Upper
105	100		
77	91.8	82.2	123.4

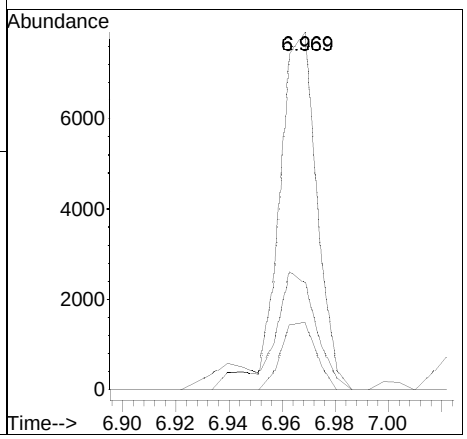


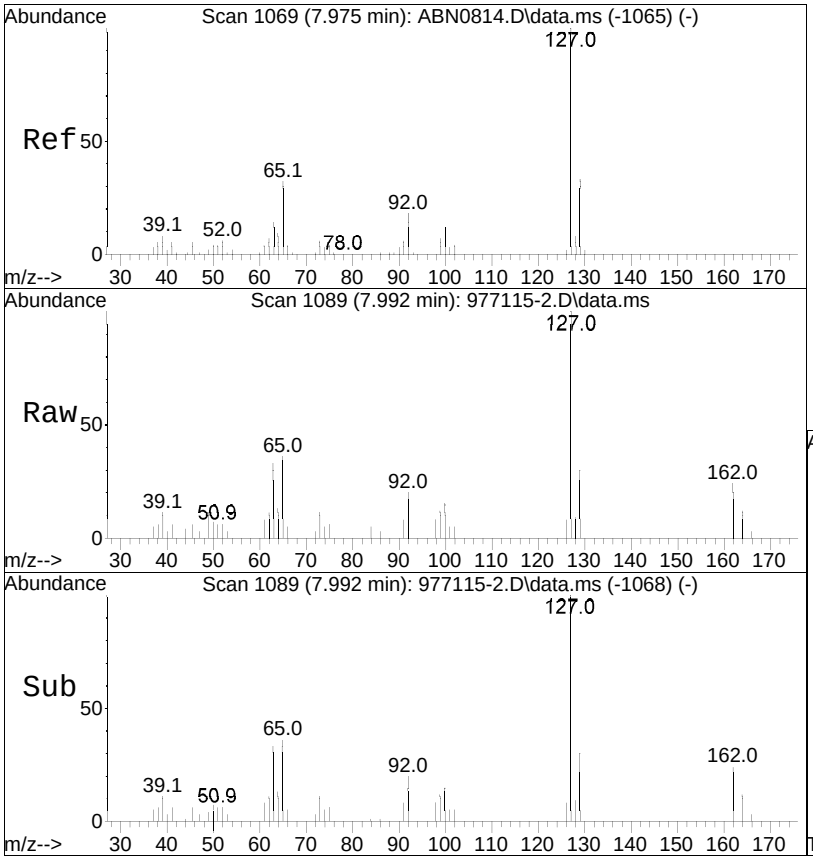


#29
Acetophenone
Concen: 1.22 ug/ml
RT: 6.969 min Scan# 915
Delta R.T. 0.006 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:105 Resp: 7820

Ion	Ratio	Lower	Upper
105	100		
120	17.3	20.5	30.7#
51	41.6	34.9	52.3

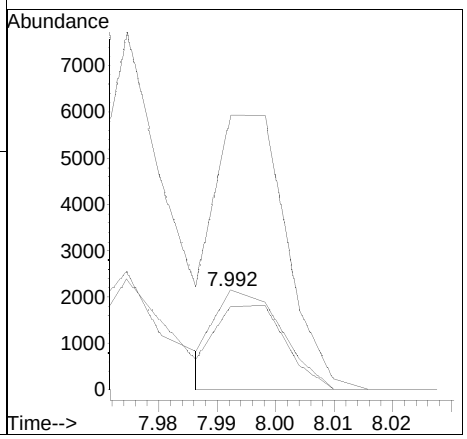


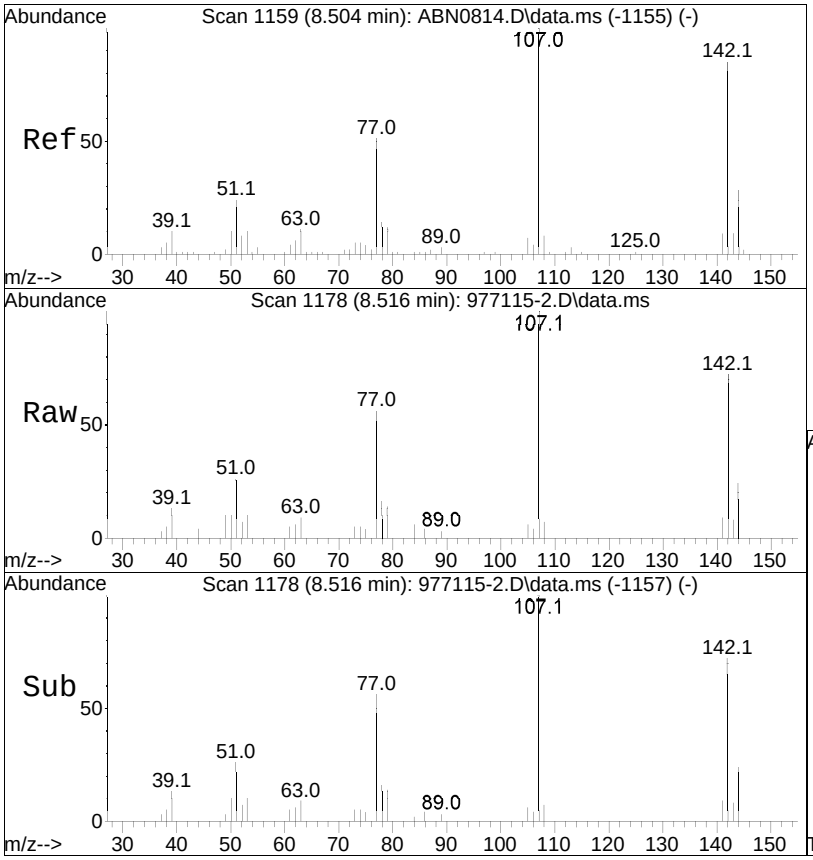


#38
4-Chloroaniline
Concen: 1.10 ug/ml
RT: 7.992 min Scan# 1089
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion: 65 Resp: 1662

Ion	Ratio	Lower	Upper
65	100		
127	293.4	237.6	356.4
129	88.3	76.3	114.5

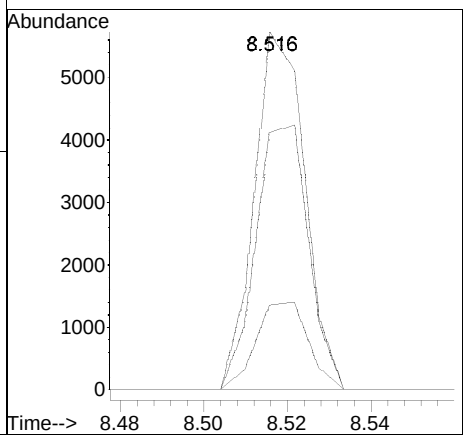


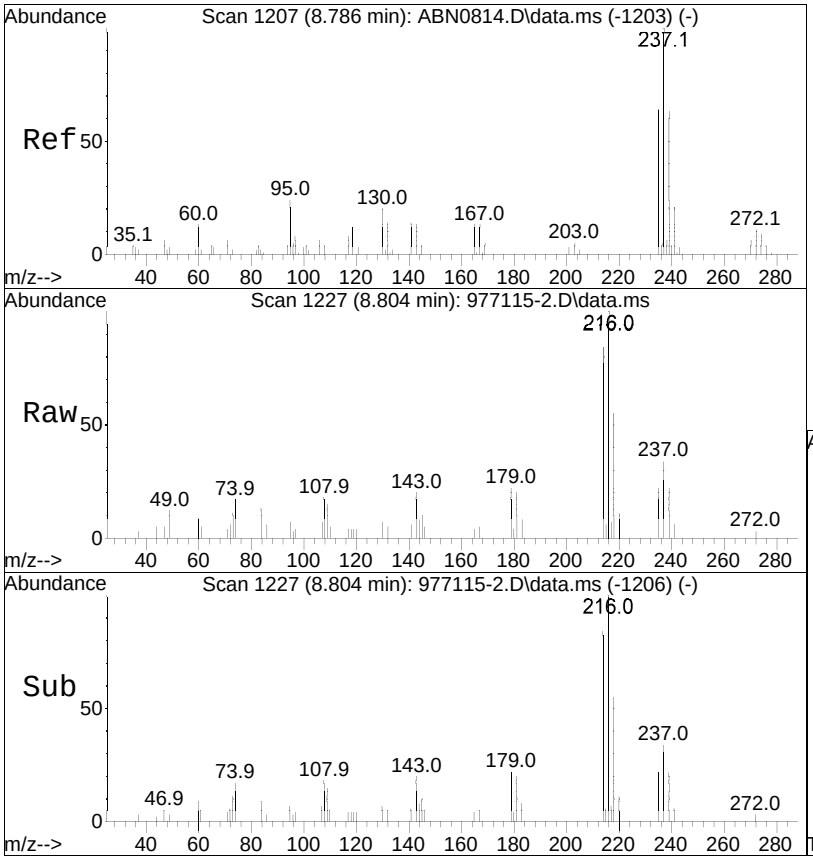


#40
p-Chloro-m-cresol
Concen: 1.41 ug/ml
RT: 8.516 min Scan# 1178
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:107 Resp: 4772

Ion	Ratio	Lower	Upper
107	100		
144	25.3	20.9	31.3
142	77.5	66.1	99.1

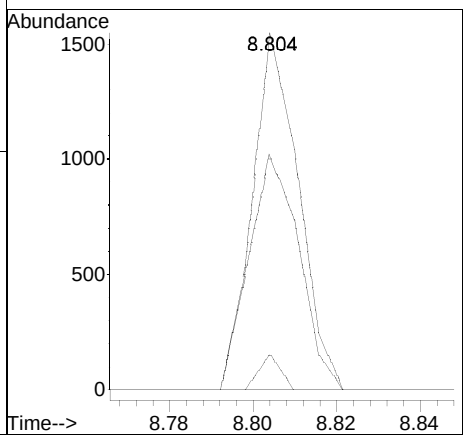


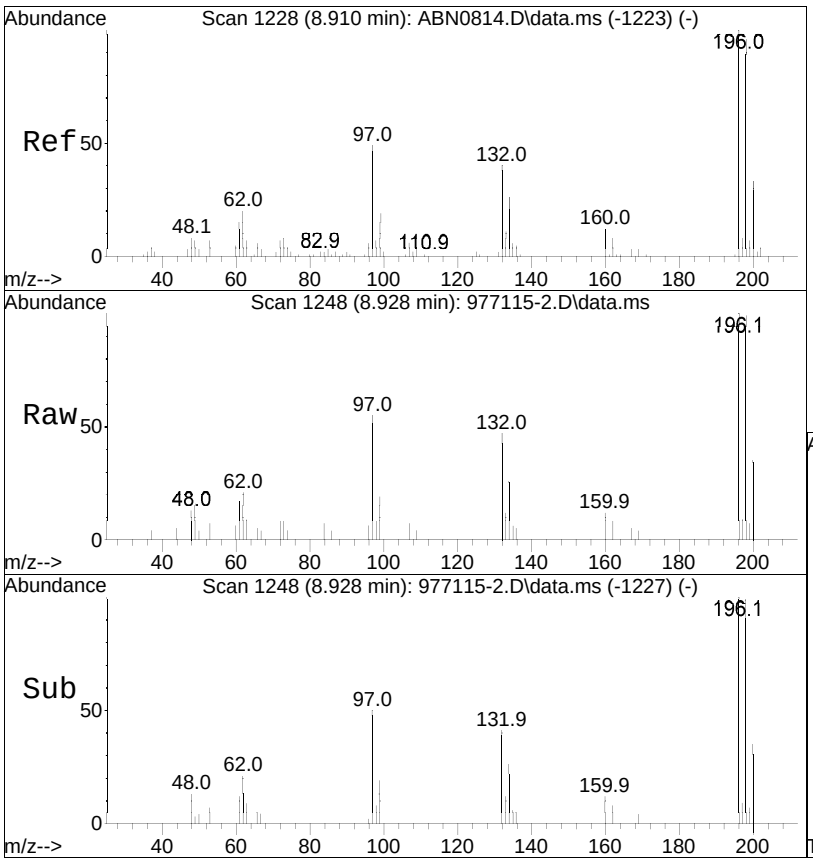


#43
Hexachlorocyclopentadiene
Concen: 0.46 ug/ml
RT: 8.804 min Scan# 1227
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:237 Resp: 1180

Ion	Ratio	Lower	Upper
237	100		
235	71.8	49.7	74.5
272	0.0	9.8	14.6#

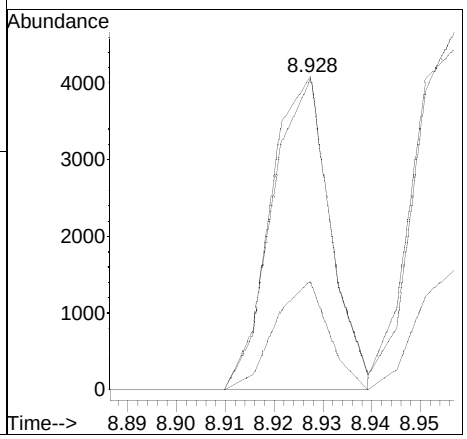


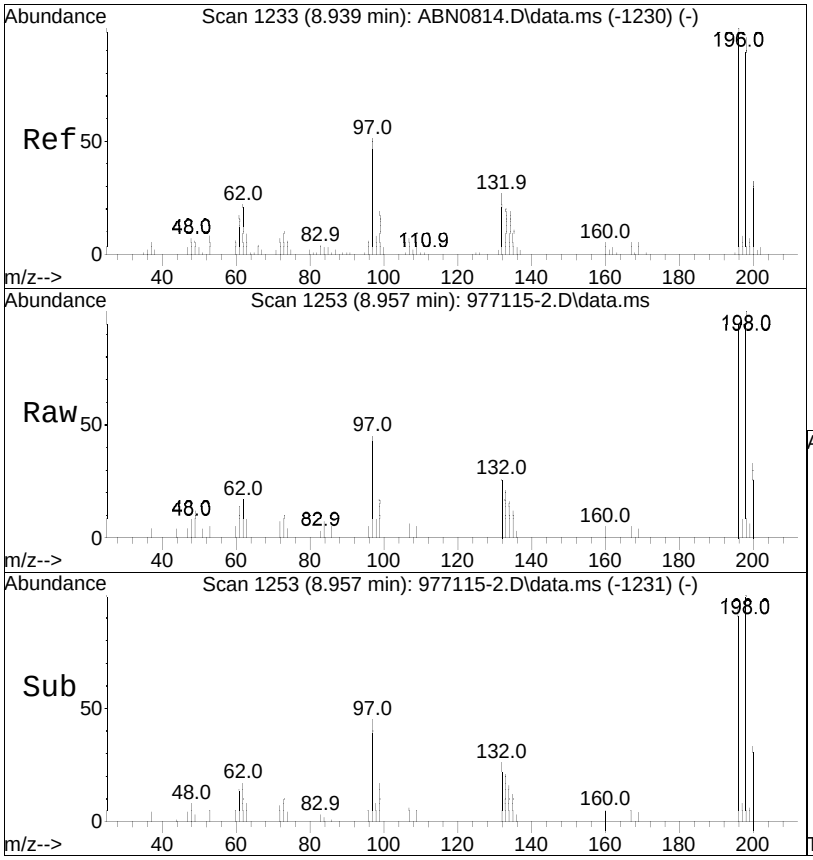


#44
2,4,6-Trichlorophenol
Concen: 1.23 ug/ml
RT: 8.928 min Scan# 1248
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:196 Resp: 3459

Ion	Ratio	Lower	Upper
196	100		
198	97.9	77.5	116.3
200	31.2	23.8	35.6

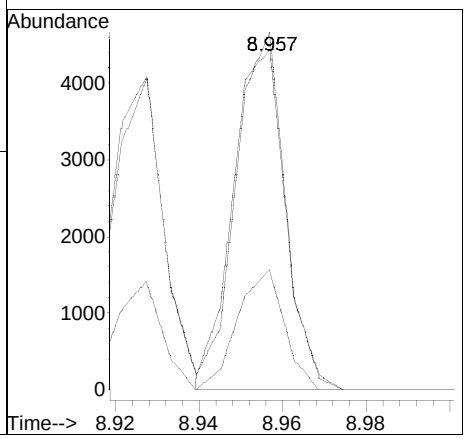


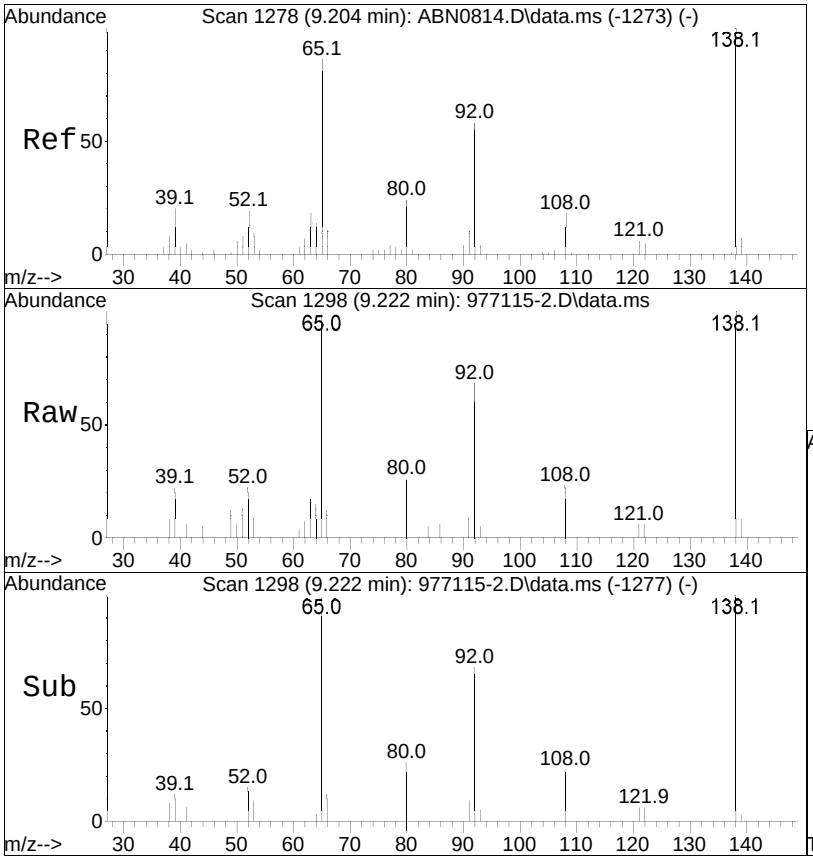


#45
2,4,5-Trichlorophenol
Concen: 1.29 ug/ml
RT: 8.957 min Scan# 1253
Delta R.T. 0.006 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:196 Resp: 3849

Ion	Ratio	Lower	Upper
196	100		
200	31.5	25.4	38.0
198	98.3	78.0	117.0

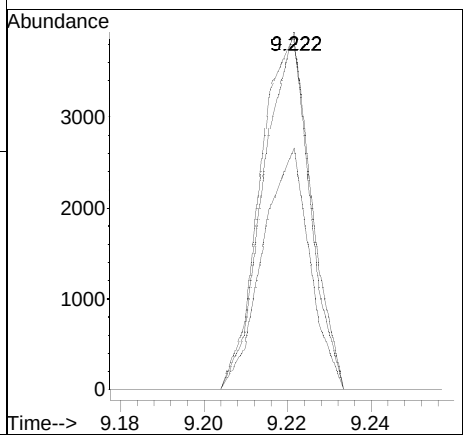


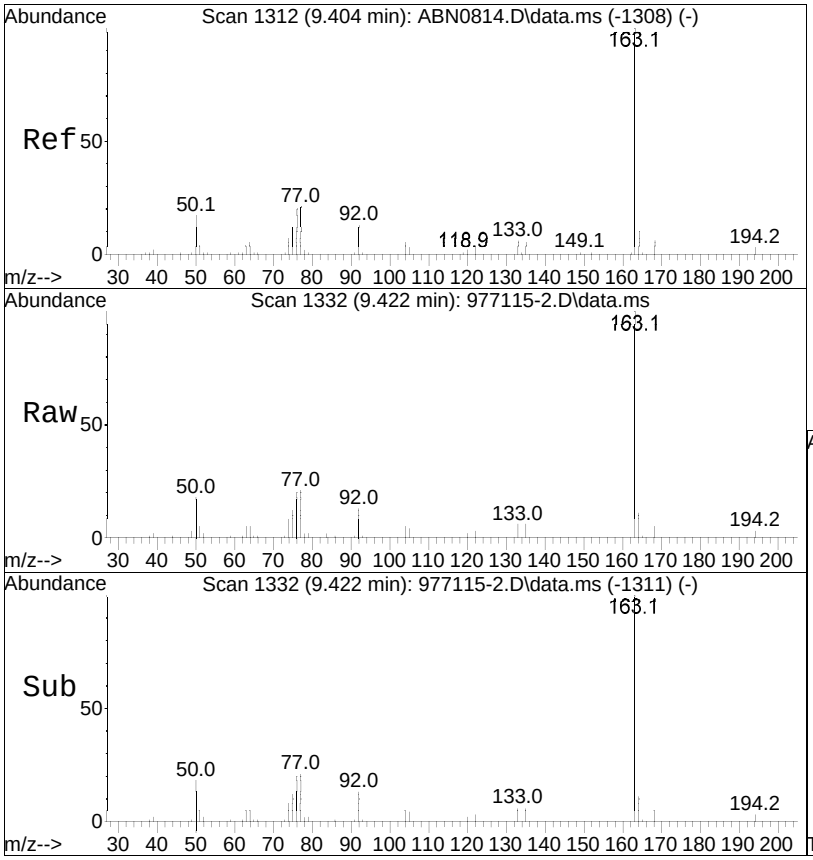


#48
2-Nitroaniline
Concen: 1.26 ug/ml
RT: 9.222 min Scan# 1298
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:138 Resp: 3085

Ion	Ratio	Lower	Upper
138	100		
92	66.9	53.5	80.3
65	102.8	86.3	129.5

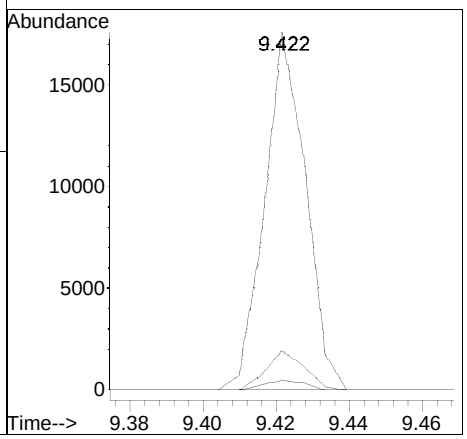


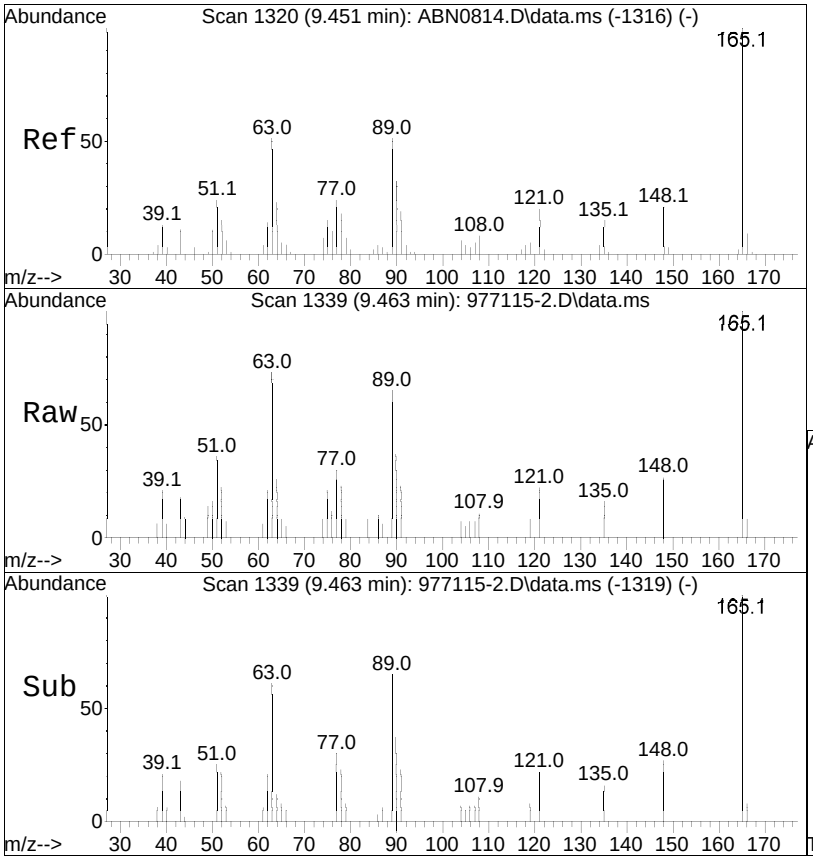


#51
Dimethyl phthalate
Concen: 1.31 ug/ml
RT: 9.422 min Scan# 1332
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:163 Resp: 13515

Ion	Ratio	Lower	Upper
163	100		
194	0.0	3.5	5.3#
164	10.3	7.9	11.9

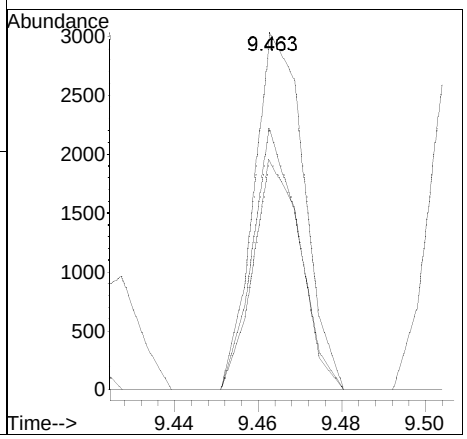


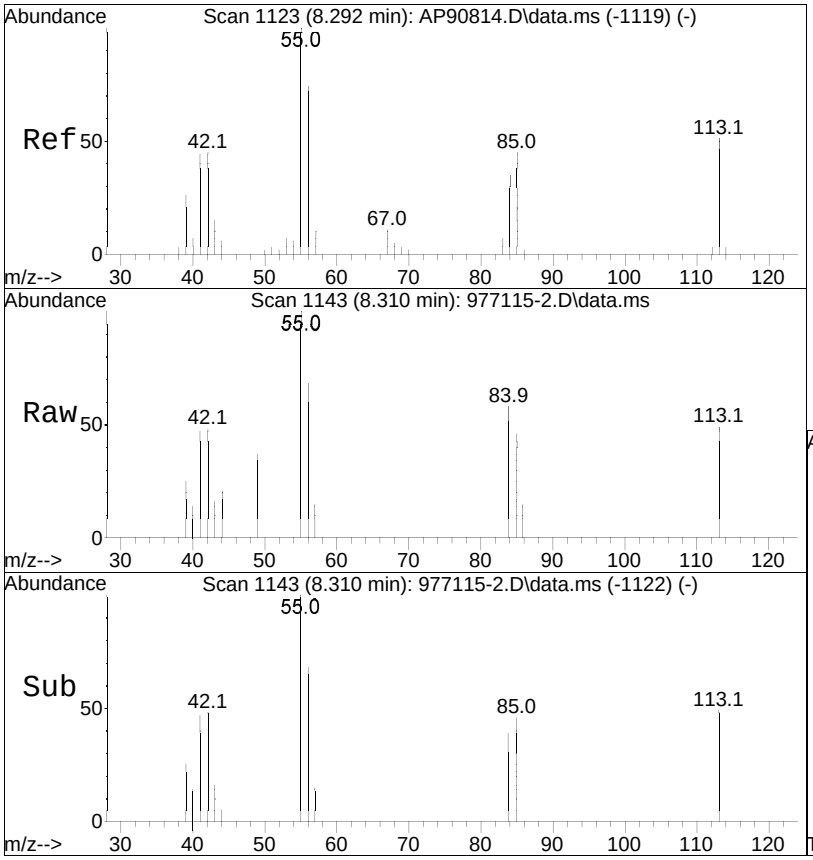


#53
2,6-Dinitrotoluene
Concen: 1.25 ug/ml
RT: 9.463 min Scan# 1339
Delta R.T. -0.006 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:165 Resp: 2533

Ion	Ratio	Lower	Upper
165	100		
89	61.2	54.2	81.2
63	66.8	64.2	96.2

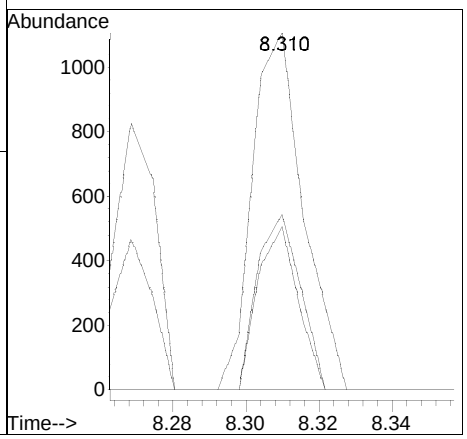


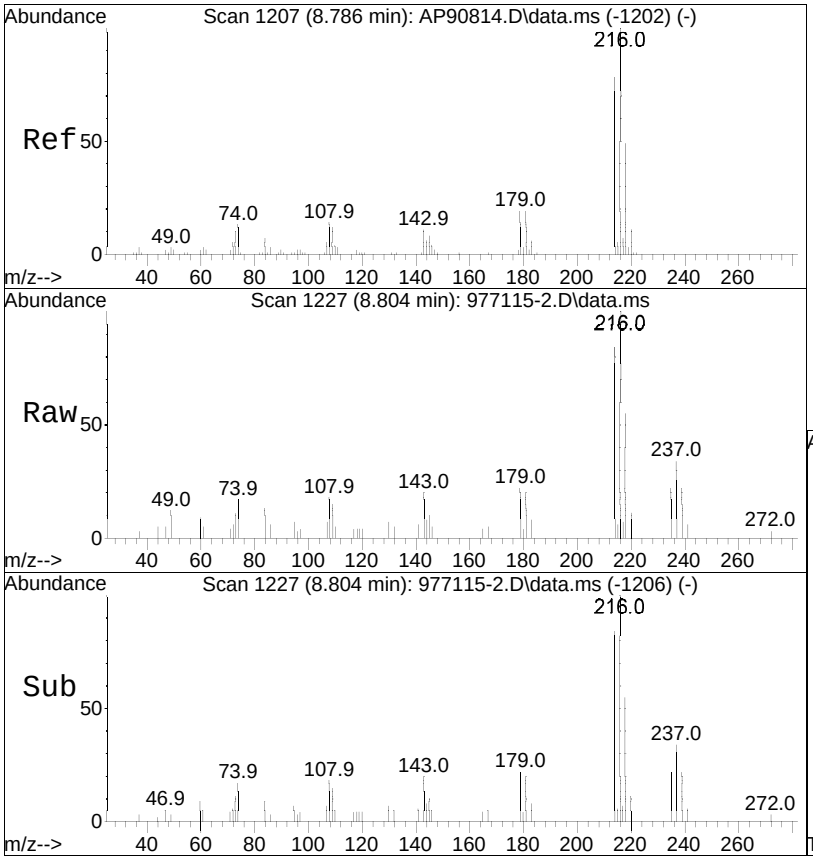


#60
Caprolactam
Concen: 1.06 ug/ml
RT: 8.310 min Scan# 1143
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion: 55 Resp: 1072

Ion	Ratio	Lower	Upper
55	100		
85	0.0	19.8	29.6#
113	41.3	29.6	44.4

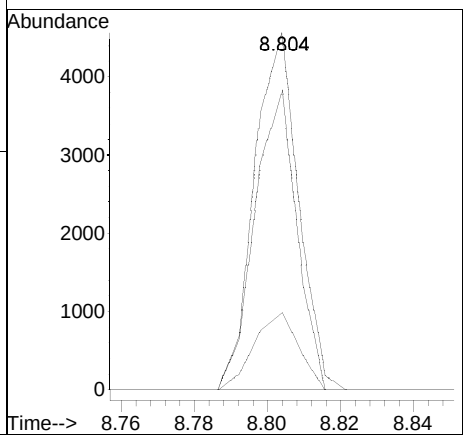


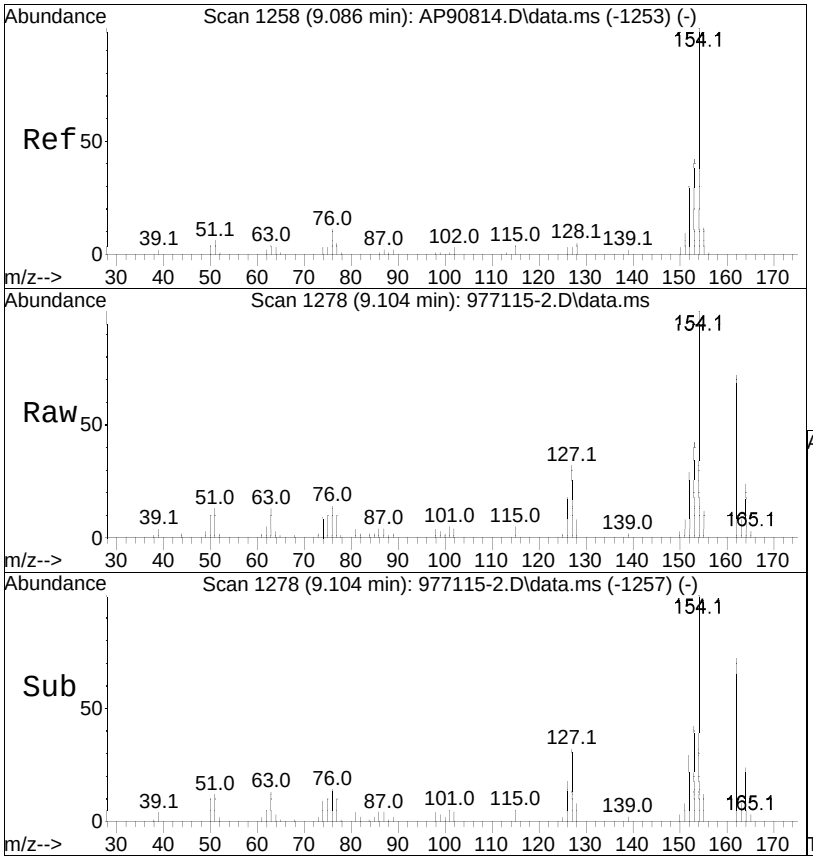


#61
1,2,4,5-Tetrachlorobenzene
Concen: 0.71 ug/ml
RT: 8.804 min Scan# 1227
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:216 Resp: 3807

Ion	Ratio	Lower	Upper
216	100		
214	80.2	63.7	95.5
179	22.0	19.0	28.6

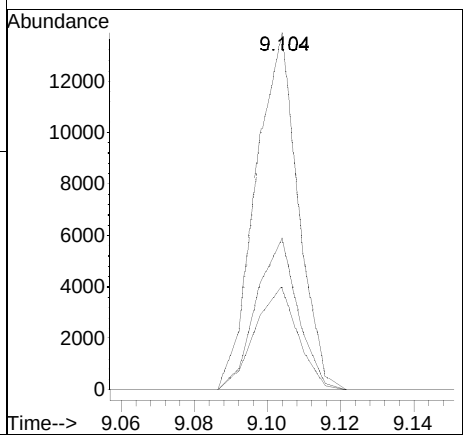


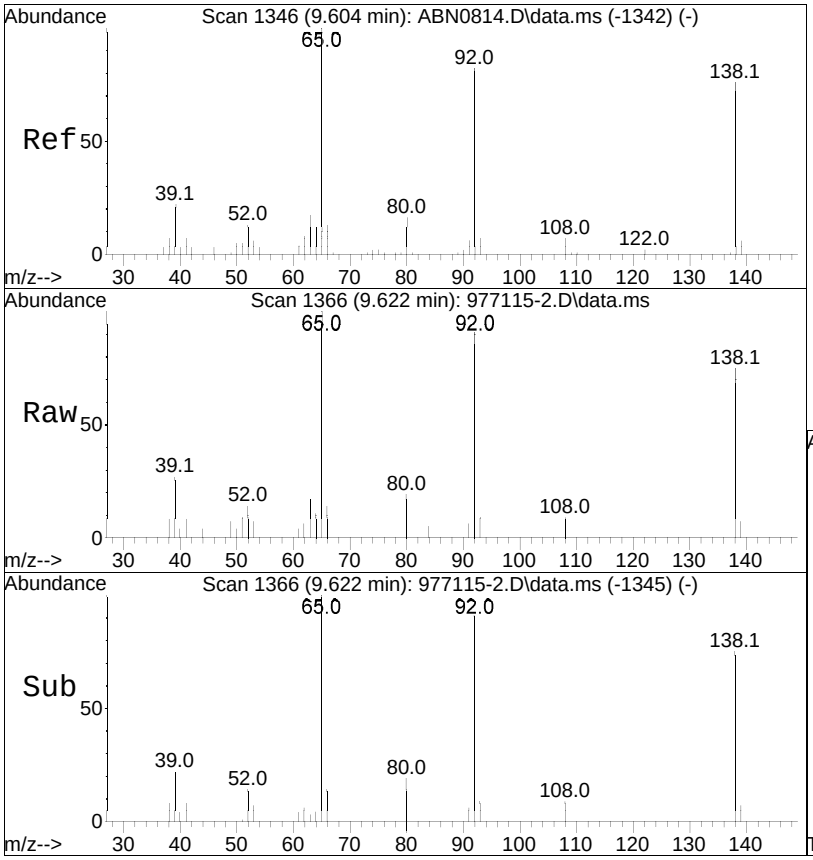


#62
Biphenyl
Concen: 0.90 ug/ml
RT: 9.104 min Scan# 1278
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:154 Resp: 11139

Ion	Ratio	Lower	Upper
154	100		
153	41.7	32.3	48.5
152	29.4	22.5	33.7

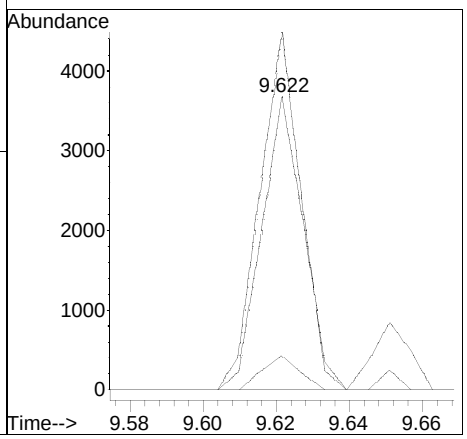


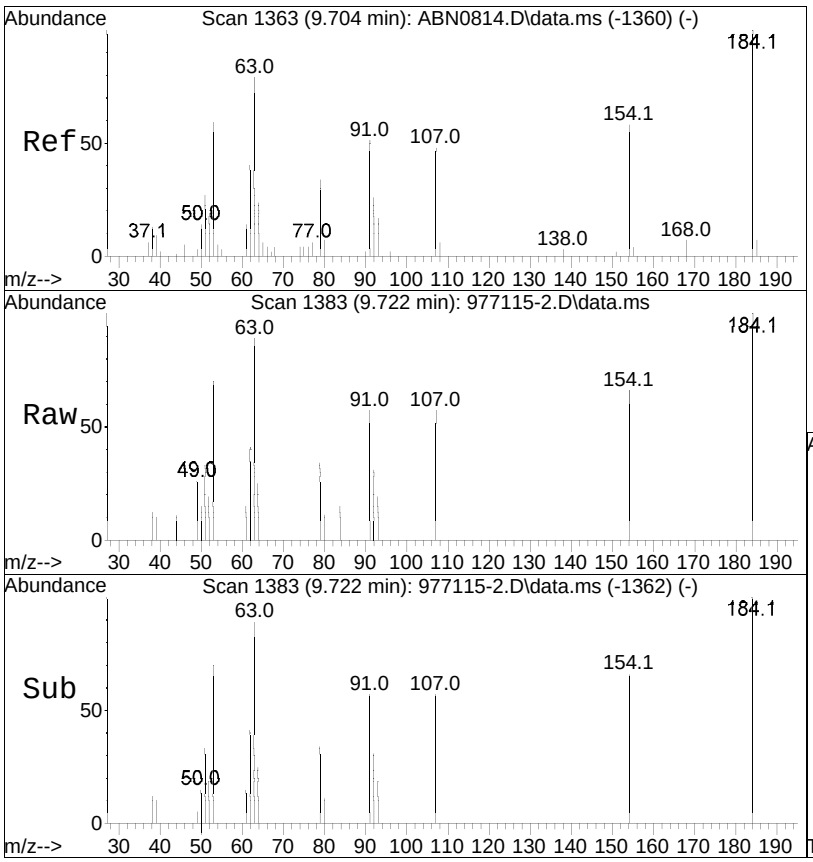


#64
3-Nitroaniline
Concen: 1.26 ug/ml
RT: 9.622 min Scan# 1366
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:138 Resp: 2883

Ion	Ratio	Lower	Upper
138	100		
92	120.5	93.4	140.2
108	20.7	9.5	14.3#

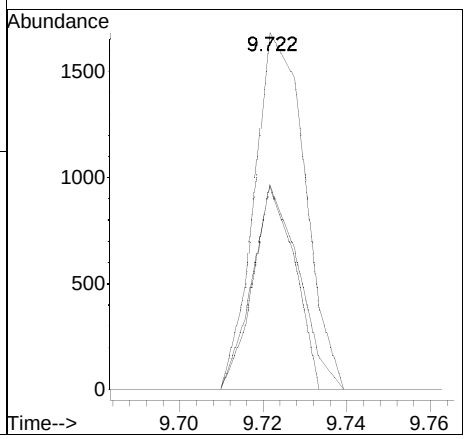


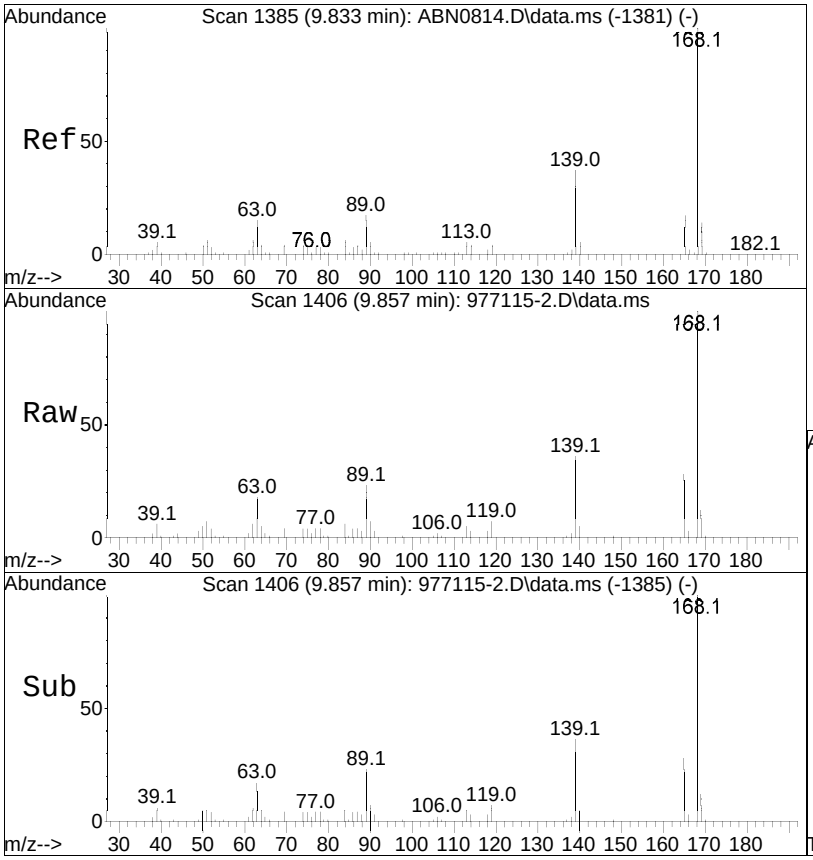


#66
2,4-Dinitrophenol
Concen: 1.82 ug/ml
RT: 9.722 min Scan# 1383
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:184 Resp: 1412

Ion	Ratio	Lower	Upper
184	100		
107	51.9	37.7	56.5
91	48.2	46.3	69.5

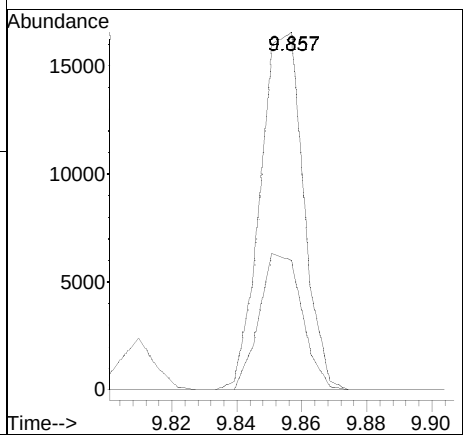


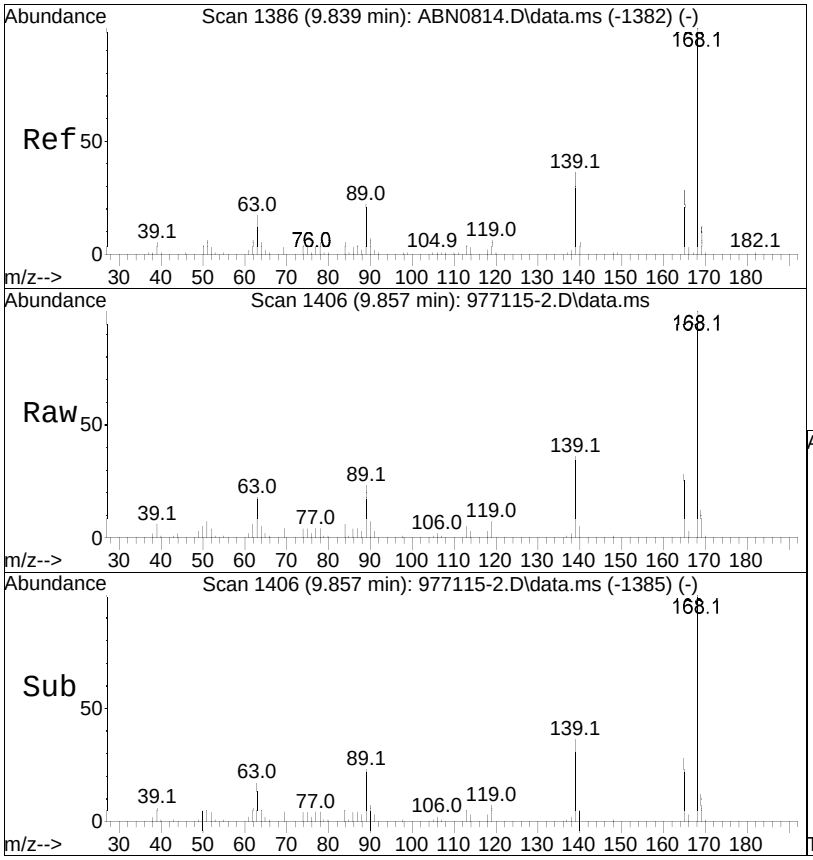


#67
Dibenzofuran
Concen: 1.12 ug/ml
RT: 9.857 min Scan# 1406
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:168 Resp: 15140

Ion	Ratio	Lower	Upper
168	100		
139	38.0	31.4	47.2

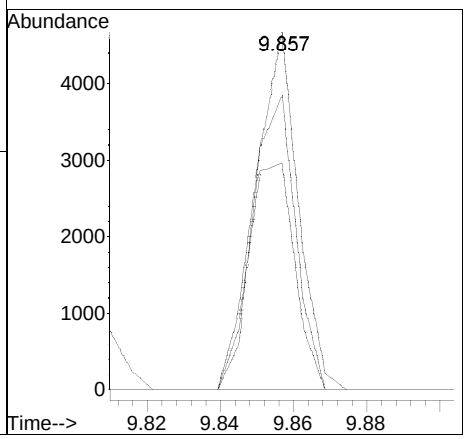


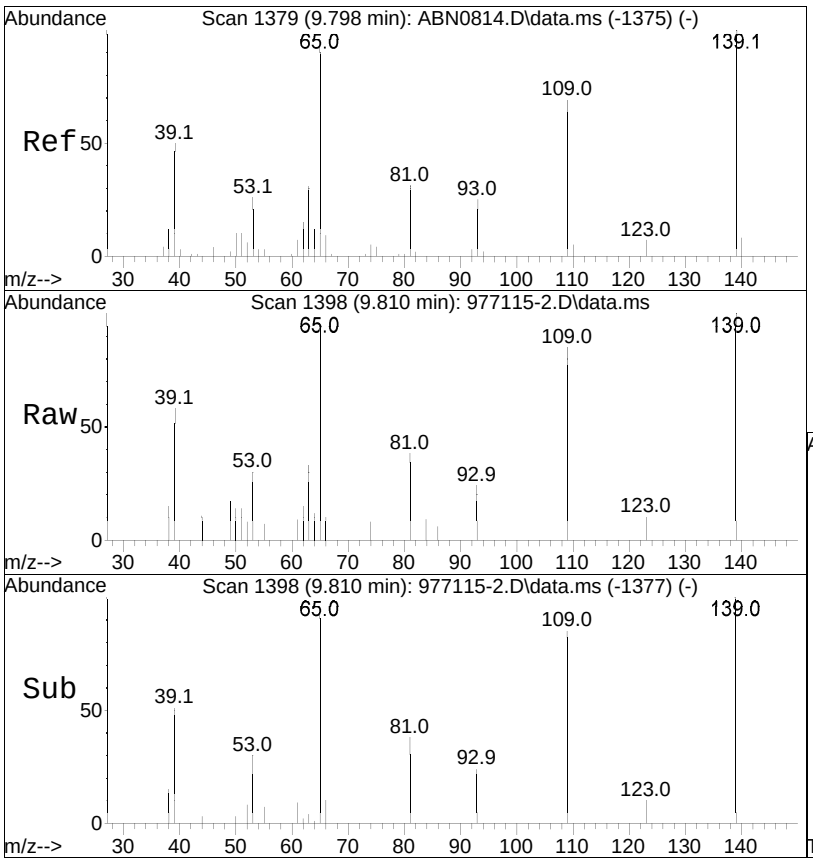


#68
2,4-Dinitrotoluene
Concen: 1.25 ug/ml
RT: 9.857 min Scan# 1406
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:165 Resp: 3654

Ion	Ratio	Lower	Upper
165	100		
89	88.6	72.0	108.0
63	71.6	52.7	79.1

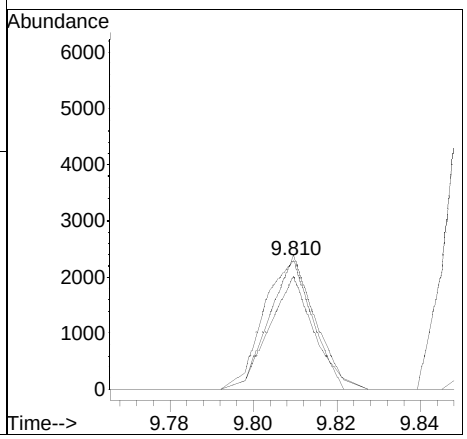


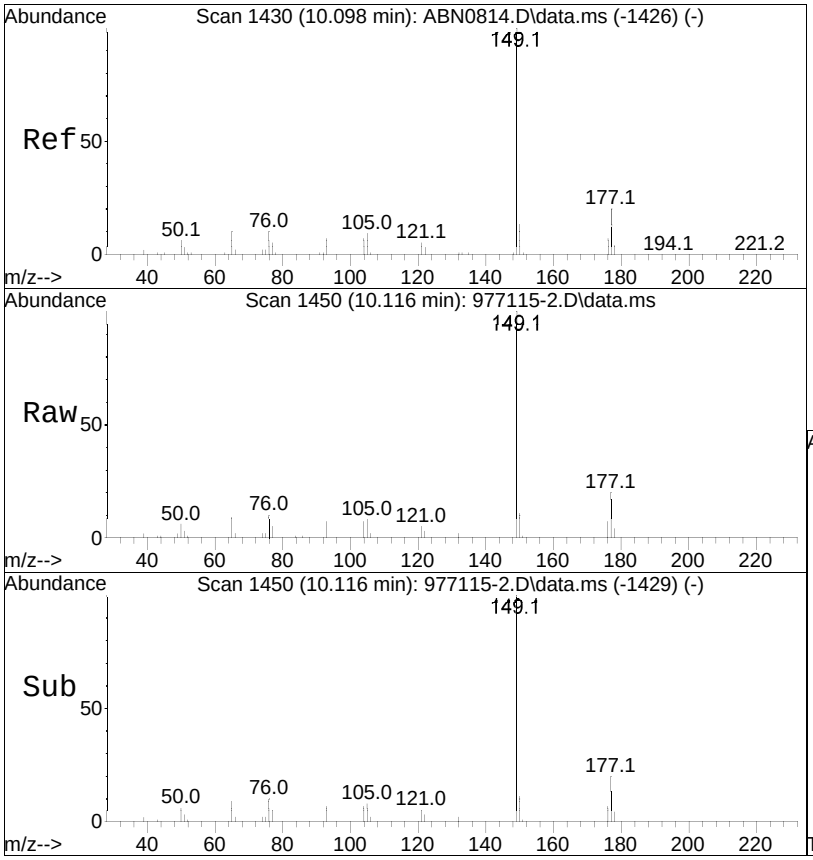


#69
4-Nitrophenol
Concen: 1.03 ug/ml
RT: 9.810 min Scan# 1398
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion: 65 Resp: 1868

Ion	Ratio	Lower	Upper
65	100		
109	80.9	47.4	71.2#
139	96.1	76.6	115.0

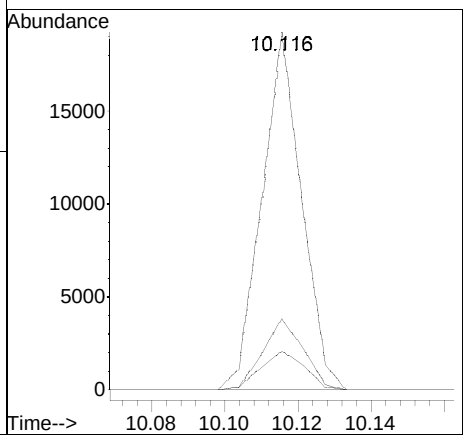


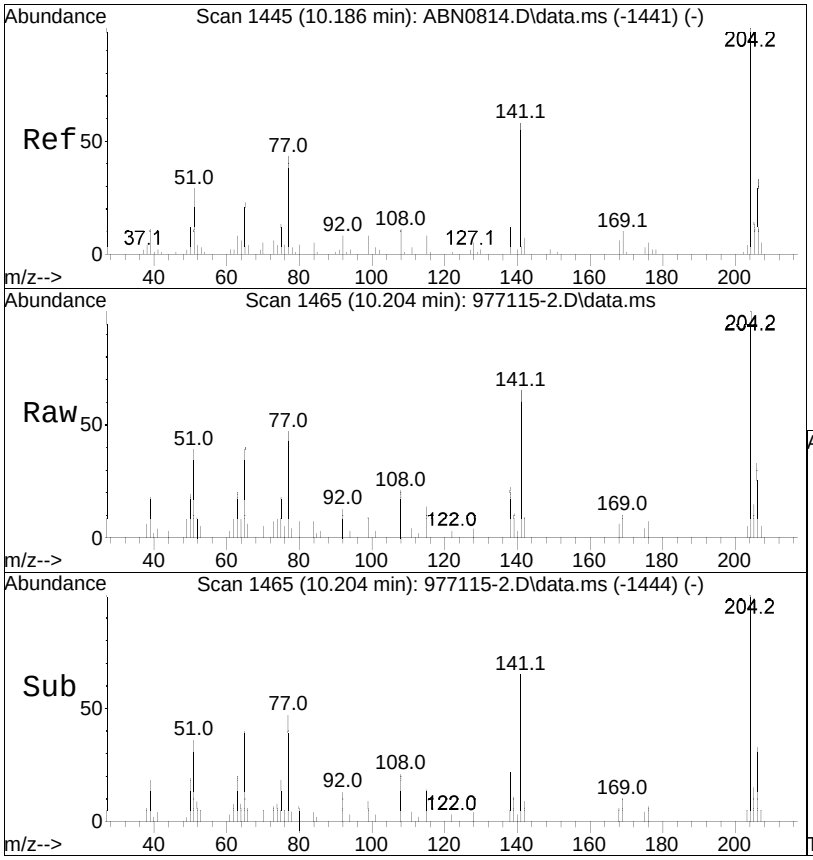


#72
Diethyl phthalate
Concen: 1.50 ug/ml
RT: 10.116 min Scan# 1450
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:149 Resp: 14299

Ion	Ratio	Lower	Upper
149	100		
177	20.5	16.1	24.1
150	12.1	9.4	14.2

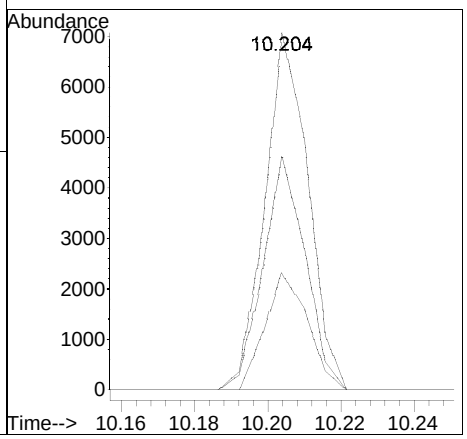


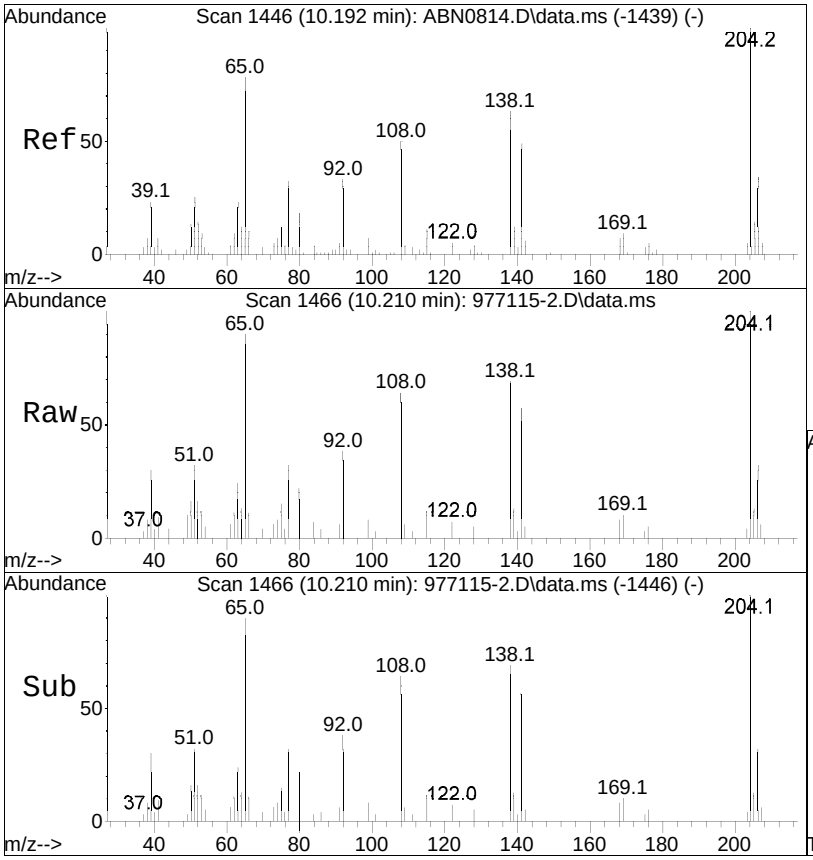


#74
4-Chlorophenyl phenyl ether
Concen: 1.12 ug/ml
RT: 10.204 min Scan# 1465
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:204 Resp: 5747

Ion	Ratio	Lower	Upper
204	100		
206	32.5	25.8	38.6
141	64.1	53.6	80.4

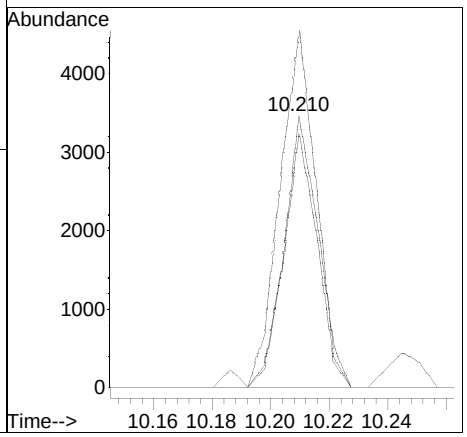


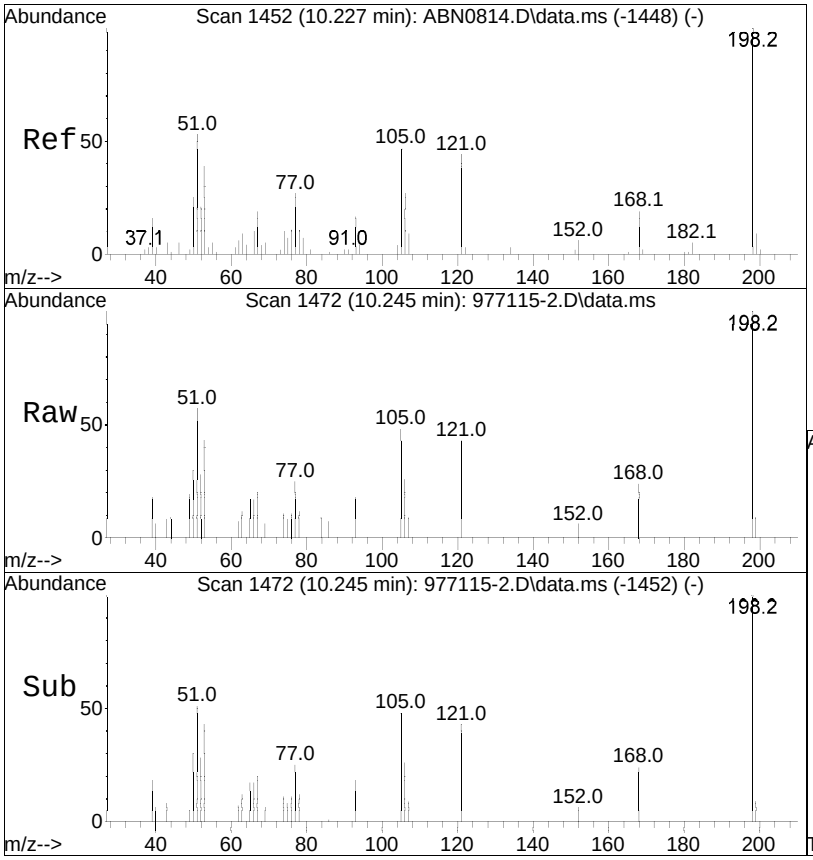


#75
4-Nitroaniline
Concen: 1.27 ug/ml
RT: 10.210 min Scan# 1466
Delta R.T. -0.006 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:138 Resp: 2906

Ion	Ratio	Lower	Upper
138	100		
108	88.2	52.1	78.1#
65	133.6	115.0	172.6

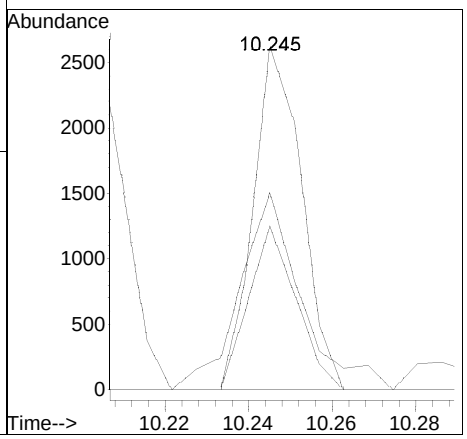


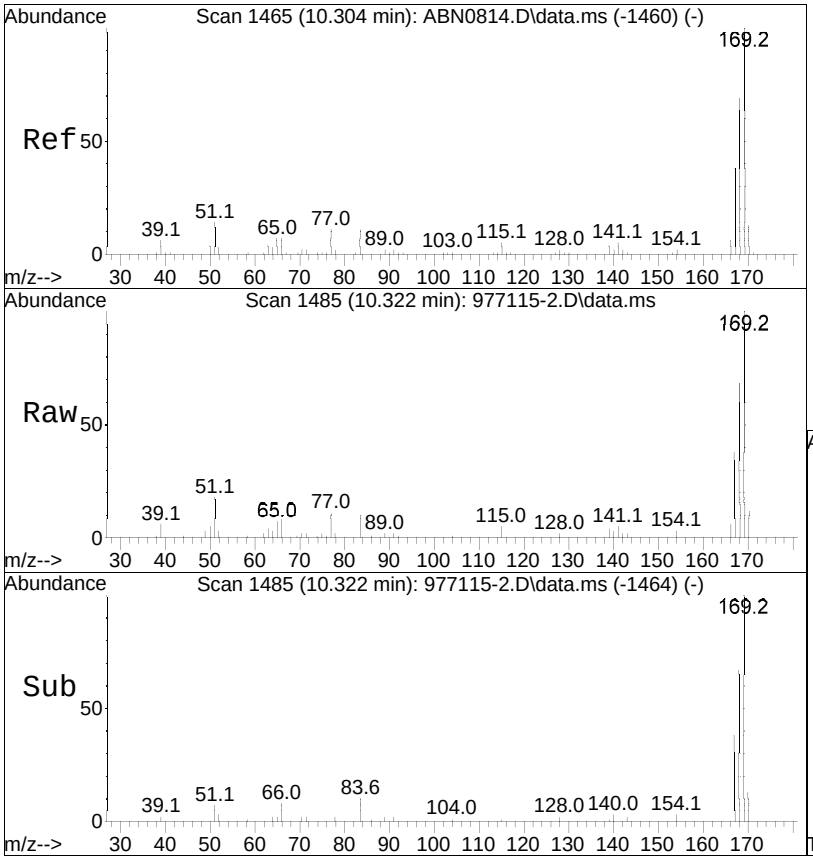


#76
4,6-Dinitro-o-cresol
Concen: 1.56 ug/ml
RT: 10.245 min Scan# 1472
Delta R.T. -0.006 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:198 Resp: 2115

Ion	Ratio	Lower	Upper
198	100		
51	72.2	76.0	114.0#
105	46.6	45.6	68.4

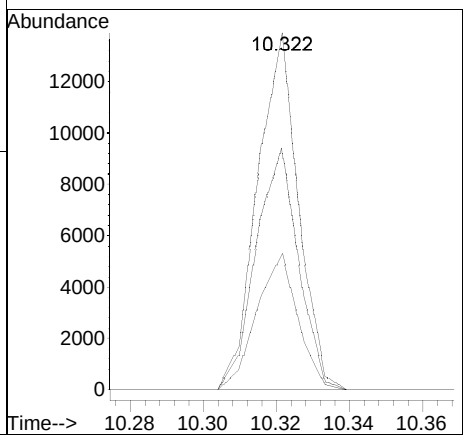


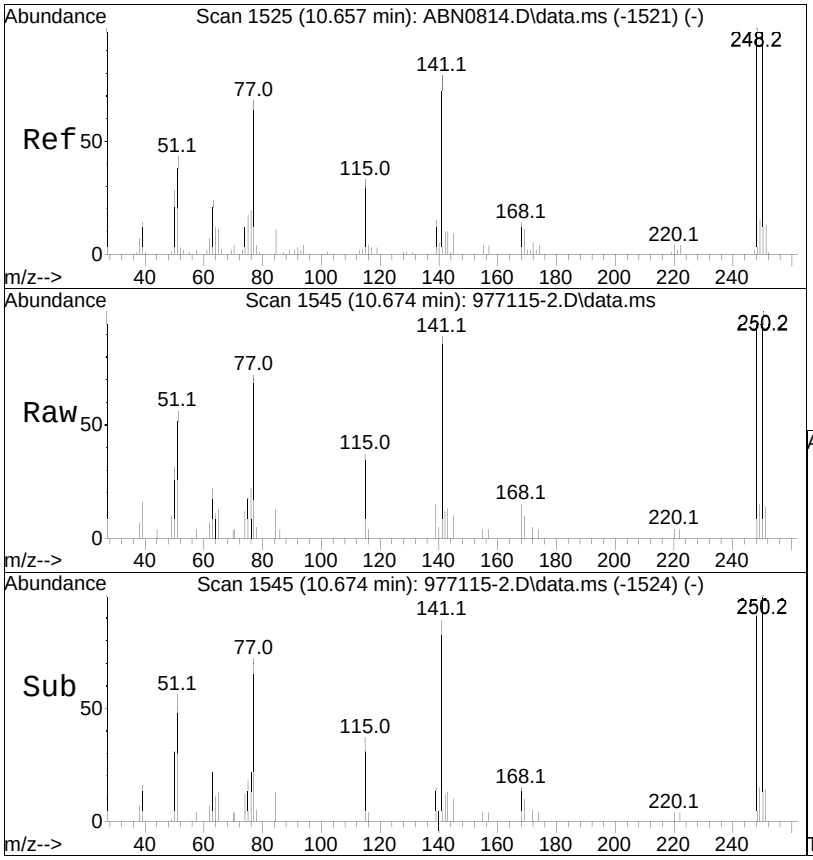


#77
NDPA/DPA
Concen: 1.28 ug/ml
RT: 10.322 min Scan# 1485
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:169 Resp: 10737

Ion	Ratio	Lower	Upper
169	100		
168	70.3	54.0	81.0
167	38.6	28.6	42.8

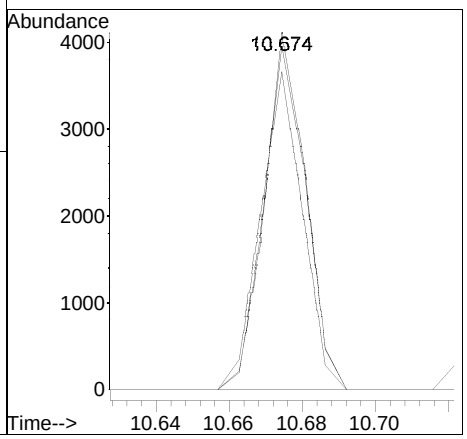


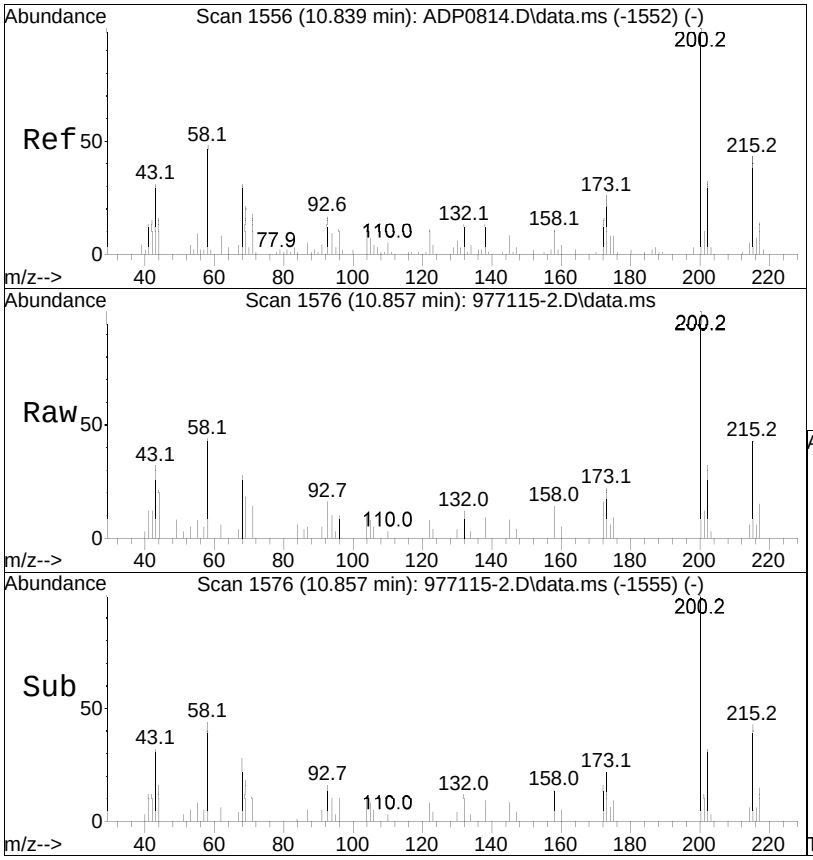


#80
4-Bromophenyl phenyl ether
Concen: 1.15 ug/ml
RT: 10.674 min Scan# 1545
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:248 Resp: 3162

Ion	Ratio	Lower	Upper
248	100		
141	92.3	76.6	114.8
250	101.5	77.3	115.9

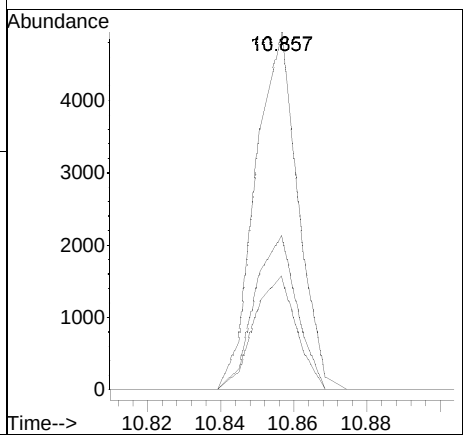


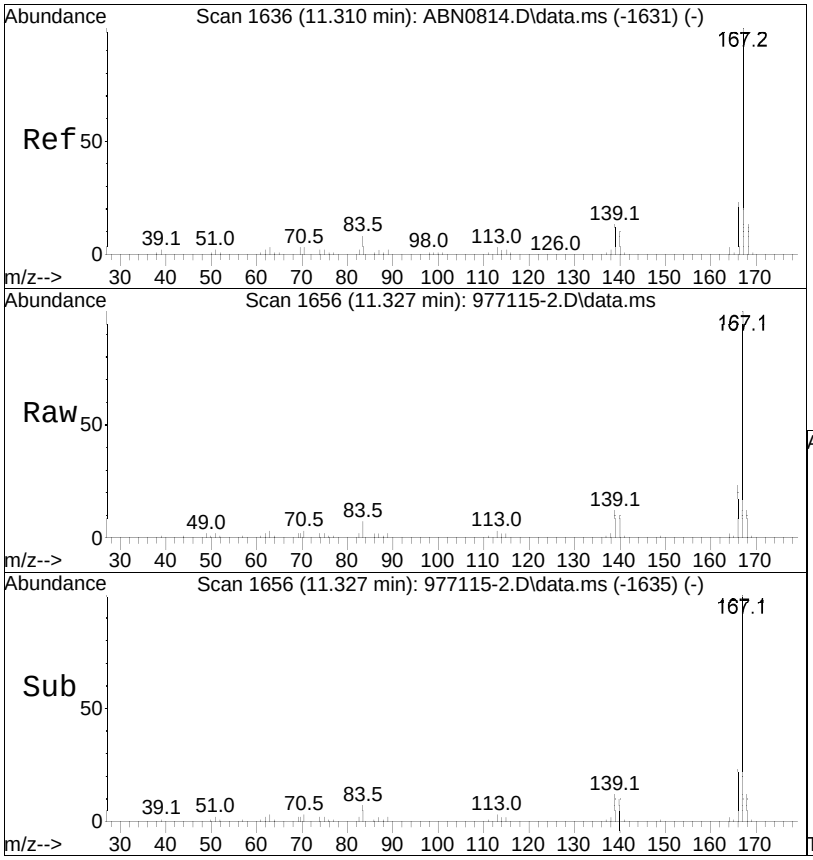


#87
Atrazine
Concen: 1.76 ug/ml
RT: 10.857 min Scan# 1576
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:200 Resp: 3979

Ion	Ratio	Lower	Upper
200	100		
202	31.7	25.8	38.6
215	42.7	40.2	60.4

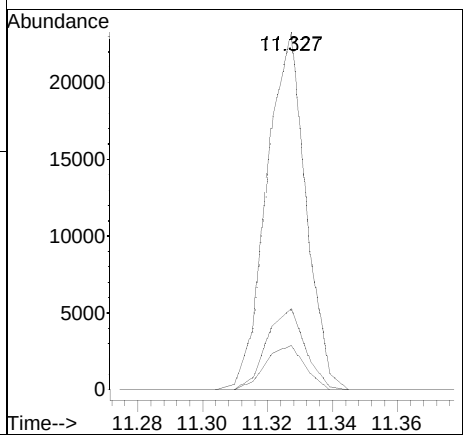


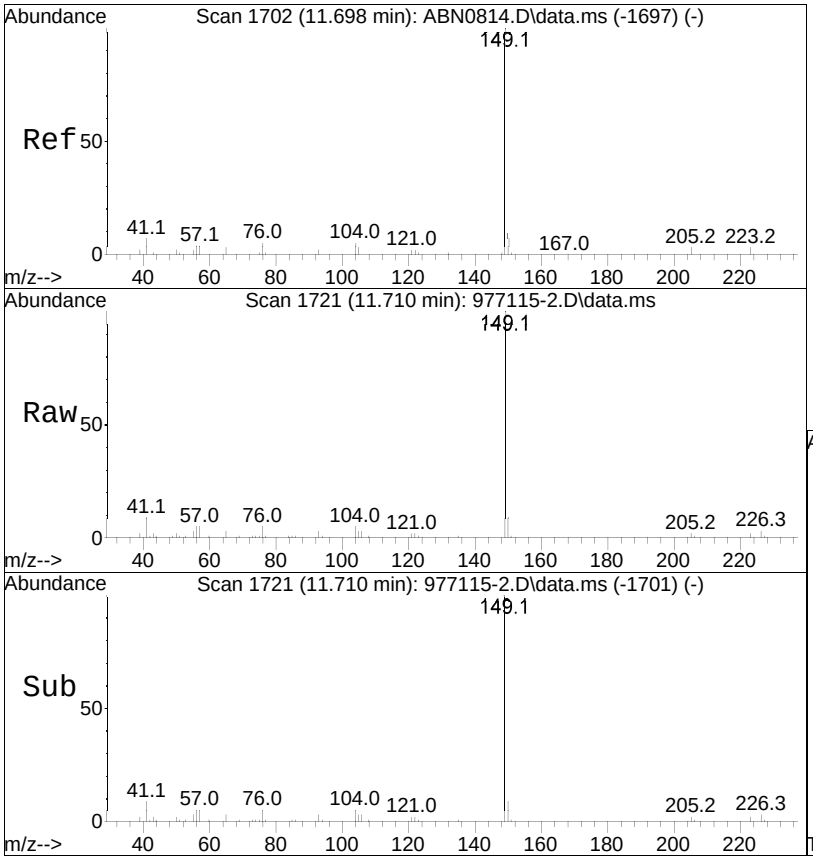


#91
Carbazole
Concen: 1.35 ug/ml
RT: 11.327 min Scan# 1656
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:167 Resp: 19300

Ion	Ratio	Lower	Upper
167	100		
168	12.6	10.6	15.8
166	22.5	17.4	26.0

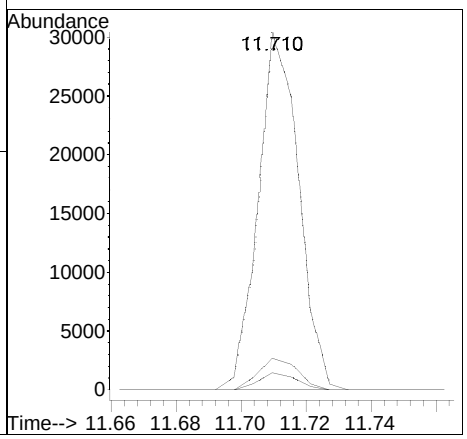


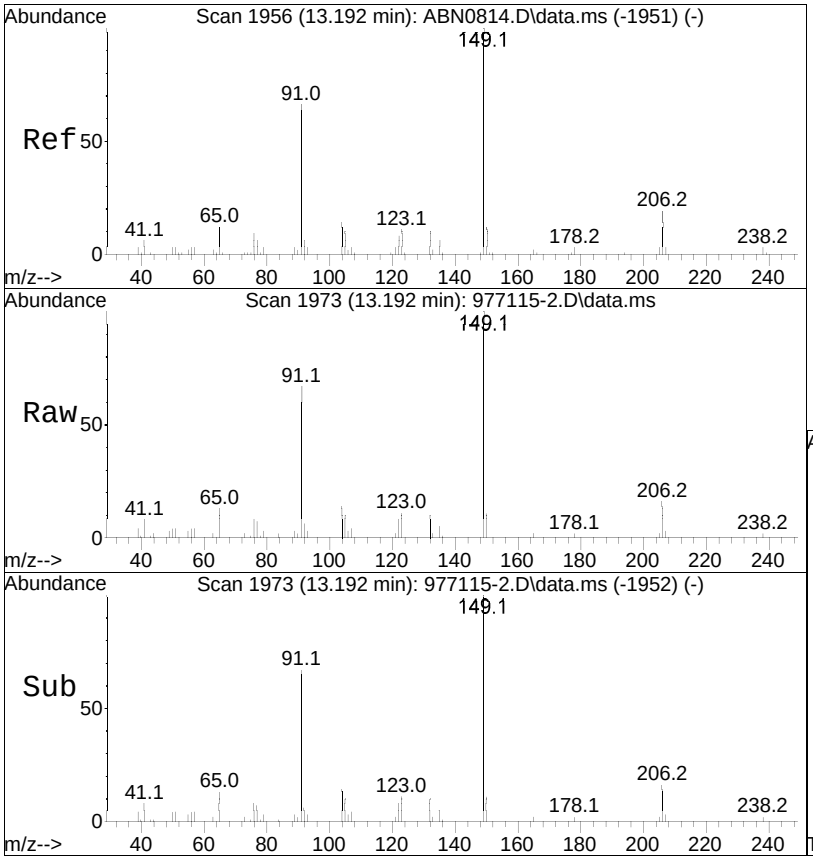


#92
Di-n-butylphthalate
Concen: 1.66 ug/ml
RT: 11.710 min Scan# 1721
Delta R.T. -0.006 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:149 Resp: 26022

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.0	10.6
104	4.6	4.5	6.7

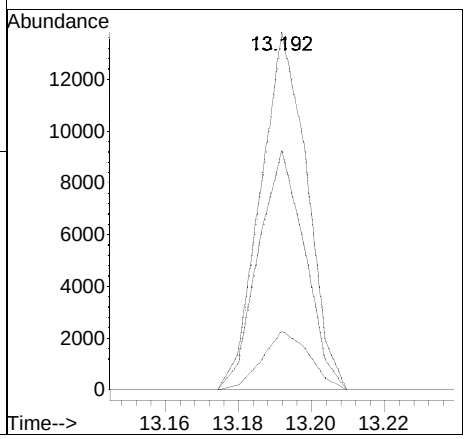


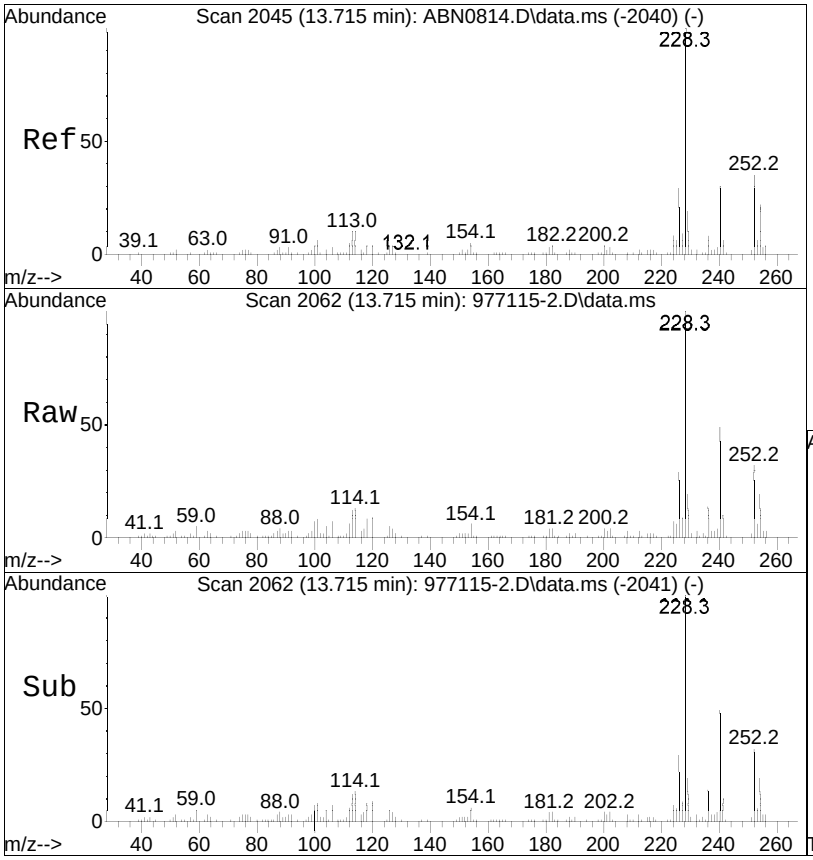


#97
Butyl benzyl phthalate
Concen: 1.82 ug/ml
RT: 13.192 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:149 Resp: 12103

Ion	Ratio	Lower	Upper
149	100		
91	67.1	63.3	94.9
206	16.7	13.9	20.9

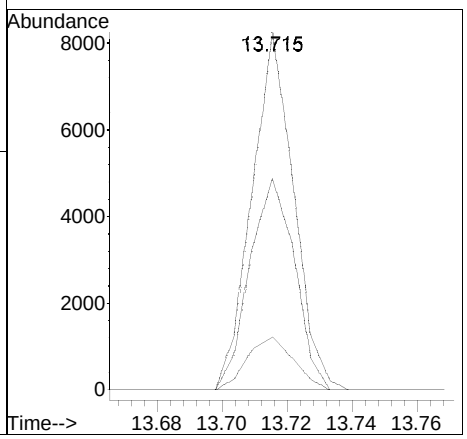


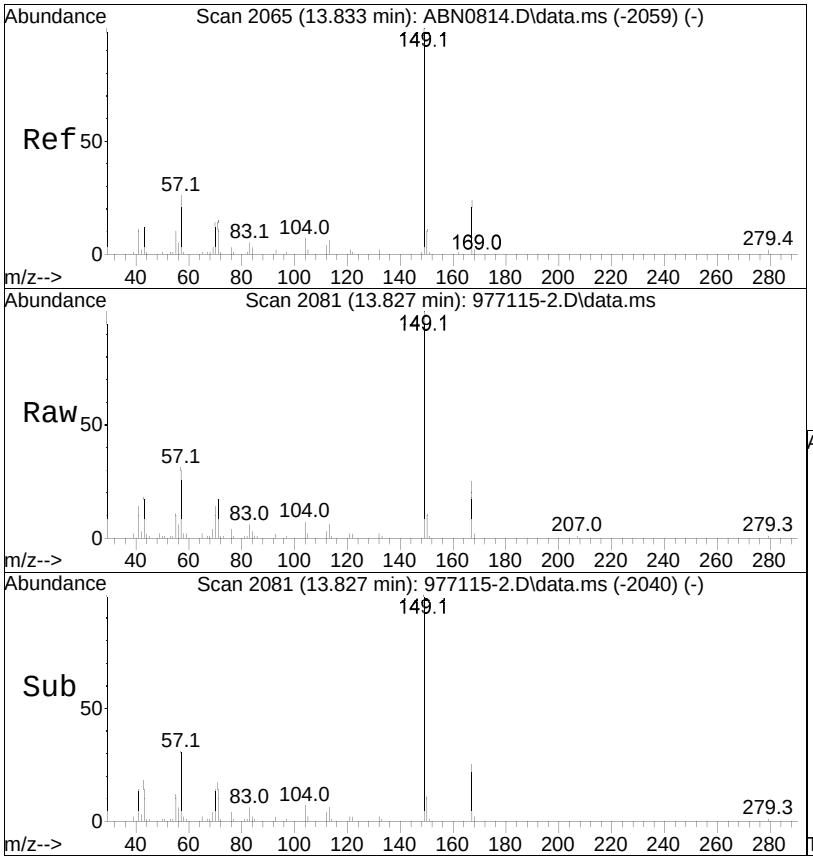


#106
3,3'-Dichlorobenzidine
Concen: 1.13 ug/ml
RT: 13.715 min Scan# 2062
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:252 Resp: 7311

Ion	Ratio	Lower	Upper
252	100		
126	16.4	14.5	21.7
254	63.5	51.2	76.8

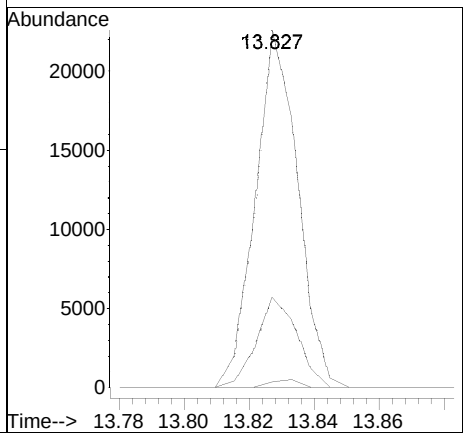


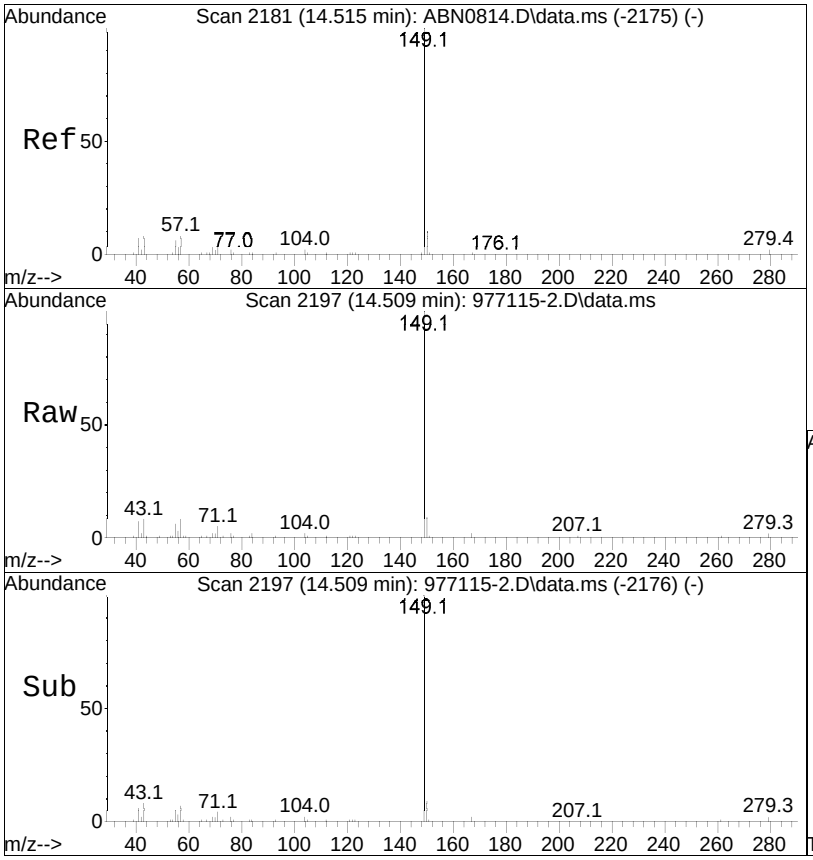


#108
Bis(2-ethylhexyl)phthalate
Concen: 1.93 ug/ml
RT: 13.827 min Scan# 2081
Delta R.T. -0.006 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:149 Resp: 20229

Ion	Ratio	Lower	Upper
149	100		
167	24.4	22.1	33.1
279	0.0	3.0	4.4#

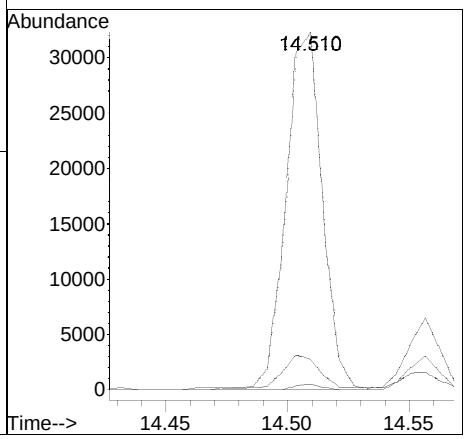




#109
Di-n-octylphthalate
Concen: 2.01 ug/ml
RT: 14.509 min Scan# 2197
Delta R.T. -0.000 min
Lab File: 977115-2.D
Acq: 28 Sep 2024 1:10 am

Tgt Ion:149 Resp: 33284

Ion	Ratio	Lower	Upper
149	100		
43	9.0	18.8	28.2#
167	1.3	1.3	1.9#



Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-3.D
Acq On : 28 Sep 2024 1:36 am
Operator : SV107:jg
Sample : WG1977115-3,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 28 14:05:18 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240927NRVT\ABN0927n.D
: 2 - I:\8270\SV107\240927NRVT\ADP0927n.D
: 3 - I:\8270\SV107\240927NRVT\AP90927n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.469	152	13015	4.000	ug/ml	0.00
Standard Area 1 = 14778			Recovery = 88.07%			
27) IS2_1,4-Dichlorobenzen...	6.469	152	13015	4.000	ug/ml	0.00
Standard Area 3 = 12952			Recovery = 100.49%			
32) IS3_1,4-Dichlorobenzen...	6.469	152	13015	4.000	ug/ml	0.00
Standard Area 2 = 12831			Recovery = 101.43%			
35) IS1_Naphthalene-d8	7.892	136	49479	4.000	ug/ml	0.00
Standard Area 1 = 54938			Recovery = 90.06%			
55) IS2_Naphthalene-d8	7.892	136	49479	4.000	ug/ml	0.00
Standard Area 3 = 49162			Recovery = 100.64%			
63) IS1_Acenaphthene-d10	9.651	164	30000	4.000	ug/ml	0.00
Standard Area 1 = 33659			Recovery = 89.13%			
83) IS2_Acenaphthene-d10	9.651	164	30000	4.000	ug/ml	0.00
Standard Area 3 = 29254			Recovery = 102.55%			
86) IS3_Acenaphthene-d10	9.651	164	30000	4.000	ug/ml	0.00
Standard Area 2 = 29357			Recovery = 102.19%			
88) IS1_Phenanthrene-d10	11.092	188	62037	4.000	ug/ml	0.00
Standard Area 1 = 70037			Recovery = 88.58%			
100) IS3_Phenanthrene-d10	11.092	188	62037	4.000	ug/ml	0.00
Standard Area 2 = 61933			Recovery = 100.17%			
104) IS1_Chrysene-d12	13.727	240	53624	4.000	ug/ml	0.00
Standard Area 1 = 61504			Recovery = 87.19%			
113) IS1_Perylene-d12	15.198	264	48786	4.000	ug/ml	0.00
Standard Area 1 = 65134			Recovery = 74.90%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.622	112	3374	0.960	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 48.00%			
7) Phenol-d6	6.098	99	3258	0.709	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 35.45%			
19) Nitrobenzene-d5	7.122	82	2321	0.522	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 52.20%			
46) 2-Fluorobiphenyl	9.010	172	5177	0.465	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 46.50%			
79) 2,4,6-Tribromophenol	10.422	330	1226	0.873	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 43.65%			

Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-3.D
Acq On : 28 Sep 2024 1:36 am
Operator : SV107:jg
Sample : WG1977115-3,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 28 14:05:18 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240927NRVT\ABN0927n.D
: 2 - I:\8270\SV107\240927NRVT\ADP0927n.D
: 3 - I:\8270\SV107\240927NRVT\AP90927n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.668	244	7605	0.518	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 51.80%

Target Compounds						Qvalue
6) 2-Chlorophenol	6.210	128	4716	1.120	ug/ml	91
8) Phenol	6.116	94	3726	0.731	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.851	45	7693	1.462	ug/ml#	63
15) 2-Methylphenol	6.845	108	4032	1.100	ug/ml	96
17) n-Nitrosodi-n-propylamine	6.998	70	3483	1.242	ug/ml#	88
18) 3-Methylphenol/4-Methy...	7.028	108	4419	1.094	ug/ml	99
20) Nitrobenzene	7.145	77	5108	1.197	ug/ml	97
21) Isophorone	7.422	82	9361	1.228	ug/ml	97
22) 2-Nitrophenol	7.498	139	2498	1.152	ug/ml#	92
23) 2,4-Dimethylphenol	7.598	107	3633	1.033	ug/ml	89
24) Bis(2-chloroethoxy)met...	7.692	93	6282	1.218	ug/ml#	96
25) 2,4-Dichlorophenol	7.763	162	4578	1.192	ug/ml	95
28) Benzaldehyde	5.904	105	3622	0.973	ug/ml	94
29) Acetophenone	6.963	105	7747	1.172	ug/ml#	87
38) 4-Chloroaniline	7.992	65	1503	0.961	ug/ml	96
40) p-Chloro-m-cresol	8.516	107	4780	1.366	ug/ml	96
43) Hexachlorocyclopentadiene	8.804	237	1289	0.492	ug/ml#	92
44) 2,4,6-Trichlorophenol	8.927	196	3520	1.216	ug/ml	99
45) 2,4,5-Trichlorophenol	8.957	196	4125	1.341	ug/ml	93
48) 2-Nitroaniline	9.222	138	3188	1.263	ug/ml	93
51) Dimethyl phthalate	9.422	163	13597	1.274	ug/ml#	98
53) 2,6-Dinitrotoluene	9.469	165	2623	1.256	ug/ml	87
60) Caprolactam	8.310	55	1110	1.062	ug/ml#	80
61) 1,2,4,5-Tetrachloroben...	8.804	216	4028	0.733	ug/ml	99
62) Biphenyl	9.104	154	11592	0.905	ug/ml	99
64) 3-Nitroaniline	9.622	138	3028	1.262	ug/ml#	91
66) 2,4-Dinitrophenol	9.722	184	1429	1.790	ug/ml	93
67) Dibenzofuran	9.857	168	15267	1.083	ug/ml	99
68) 2,4-Dinitrotoluene	9.857	165	3700	1.208	ug/ml	96
69) 4-Nitrophenol	9.810	65	1787	0.942	ug/ml#	87
72) Diethyl phthalate	10.116	149	14418	1.449	ug/ml	100
74) 4-Chlorophenyl phenyl ...	10.204	204	5788	1.083	ug/ml	99
75) 4-Nitroaniline	10.210	138	2963	1.234	ug/ml#	83

Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-3.D
Acq On : 28 Sep 2024 1:36 am
Operator : SV107:jg
Sample : WG1977115-3,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 28 14:05:18 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240927NRVT\ABN0927n.D
: 2 - I:\8270\SV107\240927NRVT\ADP0927n.D
: 3 - I:\8270\SV107\240927NRVT\AP90927n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	4,6-Dinitro-o-cresol	10.245	198	2045	1.479	ug/ml	85
77)	NDPA/DPA	10.322	169	10647	1.218	ug/ml	93
80)	4-Bromophenyl phenyl e...	10.674	248	3346	1.159	ug/ml	96
87)	Atrazine	10.857	200	3996	1.694	ug/ml	92
91)	Carbazole	11.327	167	18791	1.219	ug/ml	98
92)	Di-n-butylphthalate	11.710	149	25756	1.518	ug/ml	99
97)	Butyl benzyl phthalate	13.192	149	11228	1.629	ug/ml	87
106)	3,3'-Dichlorobenzidine	13.715	252	6425	1.061	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	13.827	149	18852	1.898	ug/ml#	93
109)	Di-n-octylphthalate	14.509	149	27097	1.791	ug/ml#	75

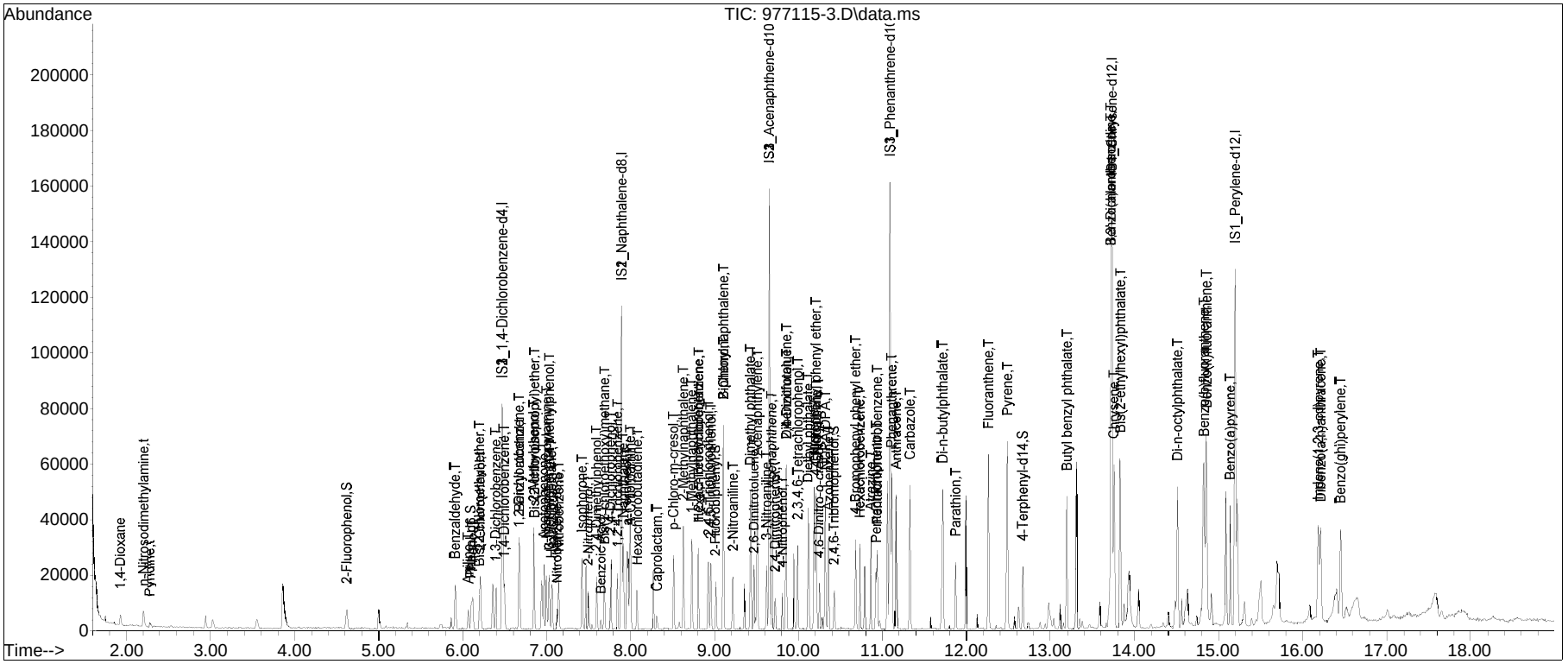
(#) = qualifier out of range (m) = manual integration (+) = signals summed

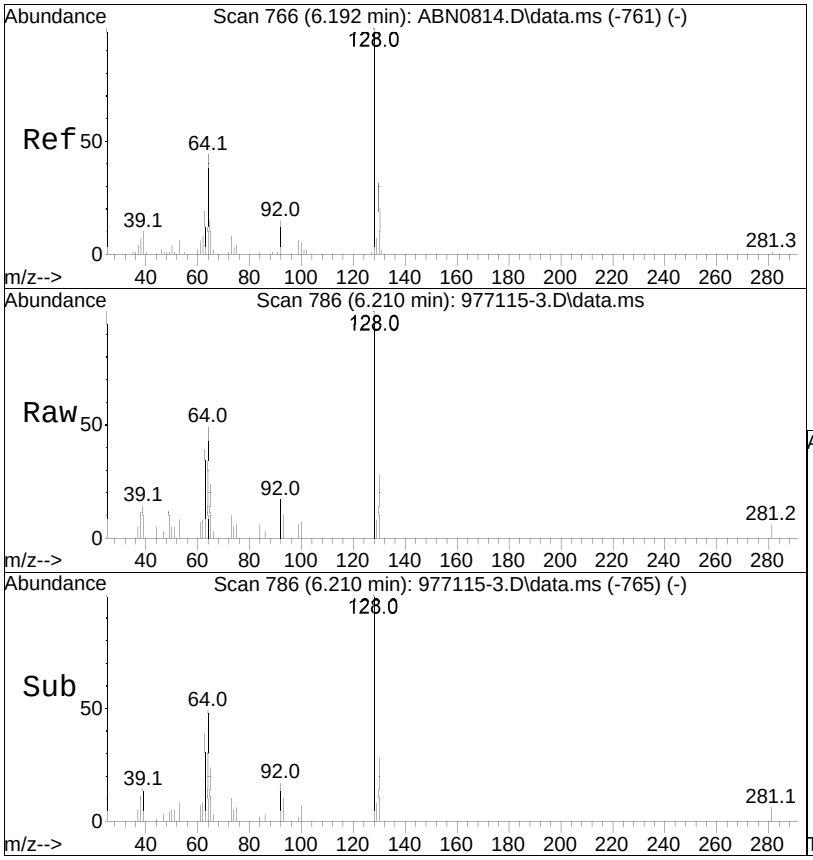
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240927NRVT\
Data File : 977115-3.D
Acq On : 28 Sep 2024 1:36 am
Operator : SV107:jg
Sample : WG1977115-3,32,,ASK,/144
Misc : WG1977425,WG1977115,ical21169
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 28 14:05:18 2024
Quant Method : I:\8270\SV107\240927NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 00:48:04 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MANRVT\AP90927n.D•

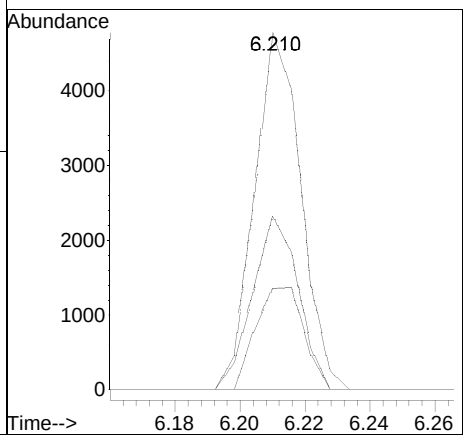


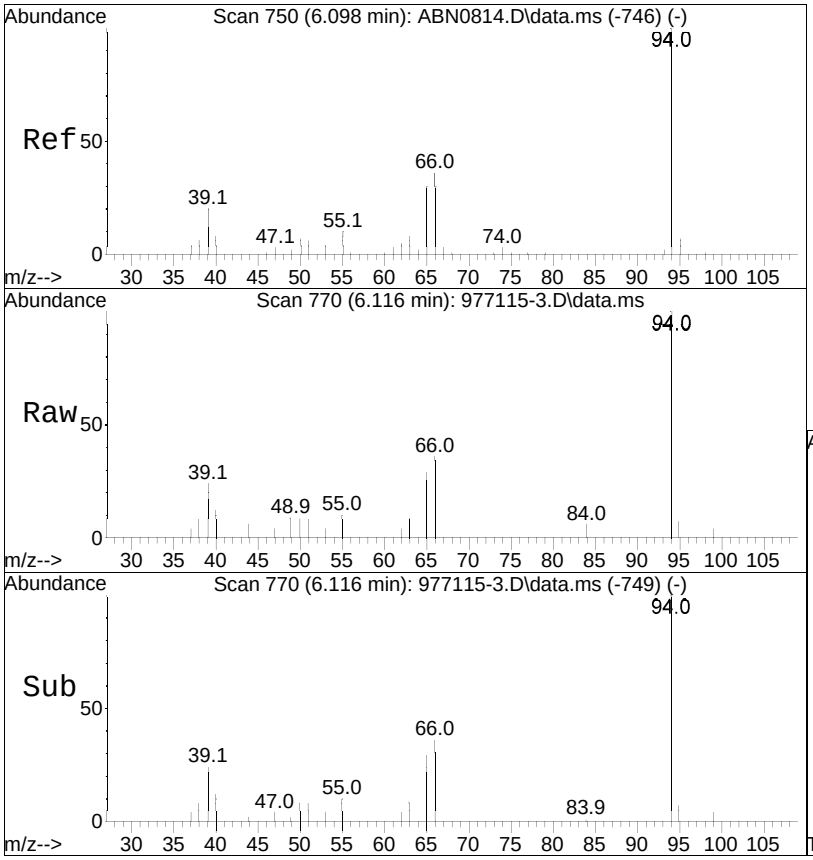


#6
2-Chlorophenol
Concen: 1.12 ug/ml
RT: 6.210 min Scan# 786
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:128 Resp: 4716

Ion	Ratio	Lower	Upper
128	100		
64	48.0	45.1	67.7
130	29.7	26.2	39.4

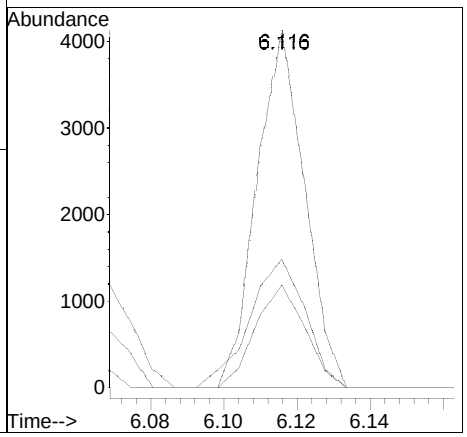


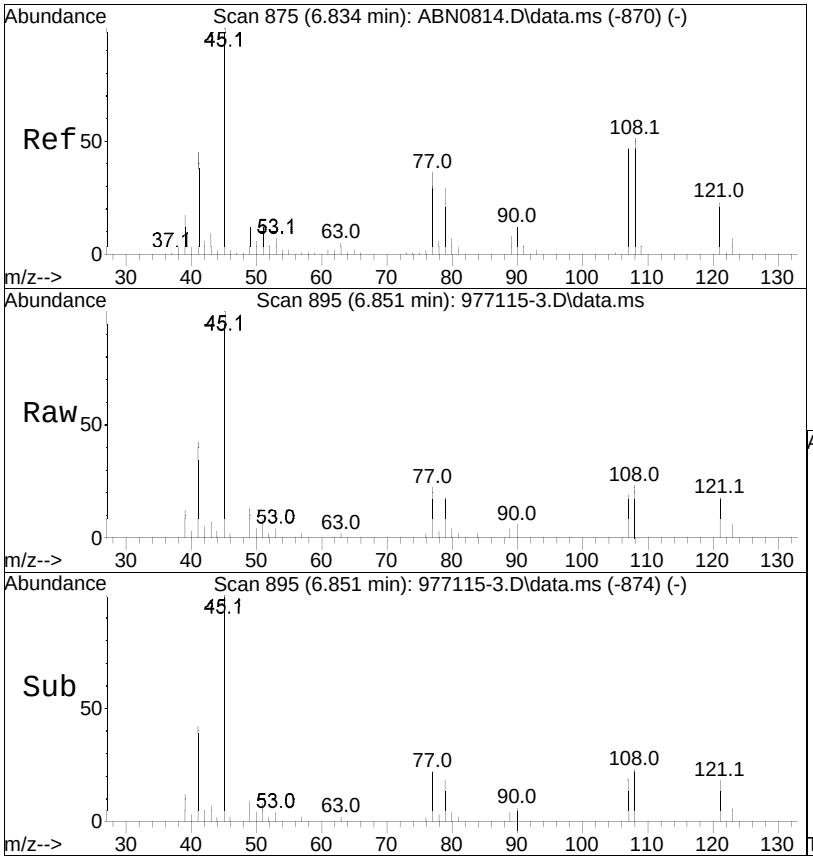


#8
Phenol
Concen: 0.73 ug/ml
RT: 6.116 min Scan# 770
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion: 94 Resp: 3726

Ion	Ratio	Lower	Upper
94	100		
65	30.2	26.0	39.0
66	42.3	33.8	50.8

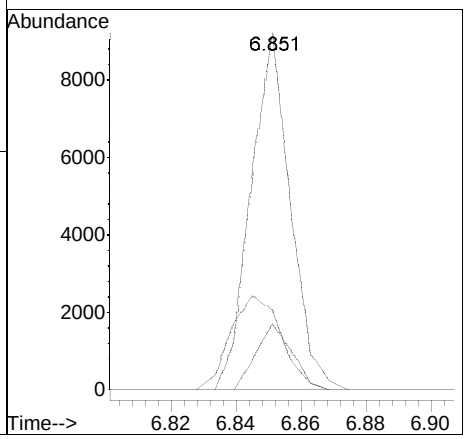


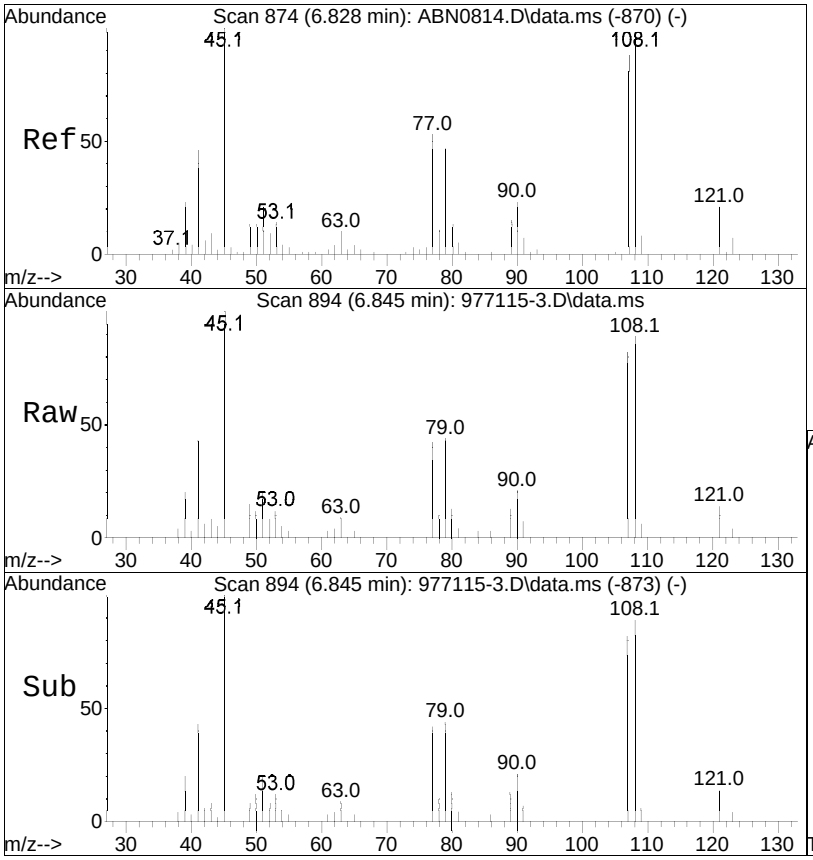


#14
Bis(2-chloroisopropyl)ether
Concen: 1.46 ug/ml
RT: 6.851 min Scan# 895
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion: 45 Resp: 7693

Ion	Ratio	Lower	Upper
45	100		
121	17.0	9.8	14.6#
77	34.2	6.1	9.1#

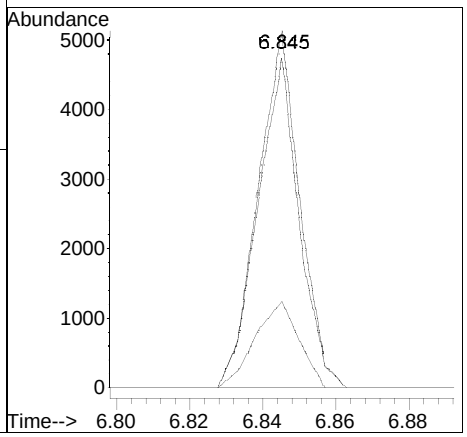


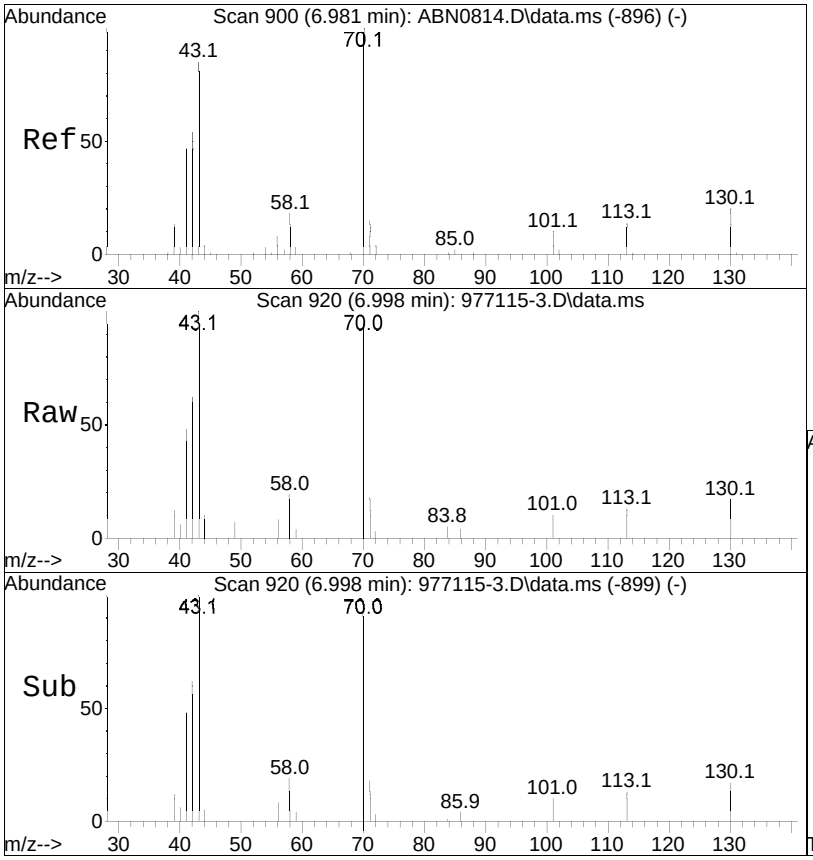


#15
2-Methylphenol
Concen: 1.10 ug/ml
RT: 6.845 min Scan# 894
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:108 Resp: 4032

Ion	Ratio	Lower	Upper
108	100		
107	91.5	70.7	106.1
90	25.5	18.7	28.1

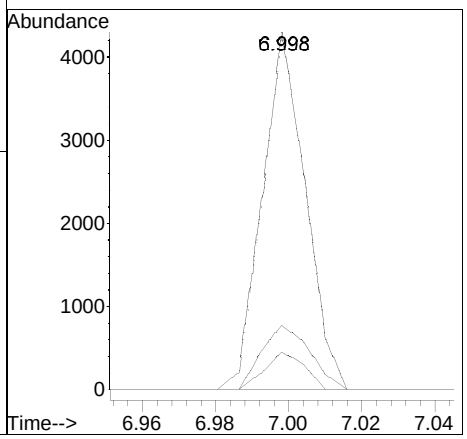


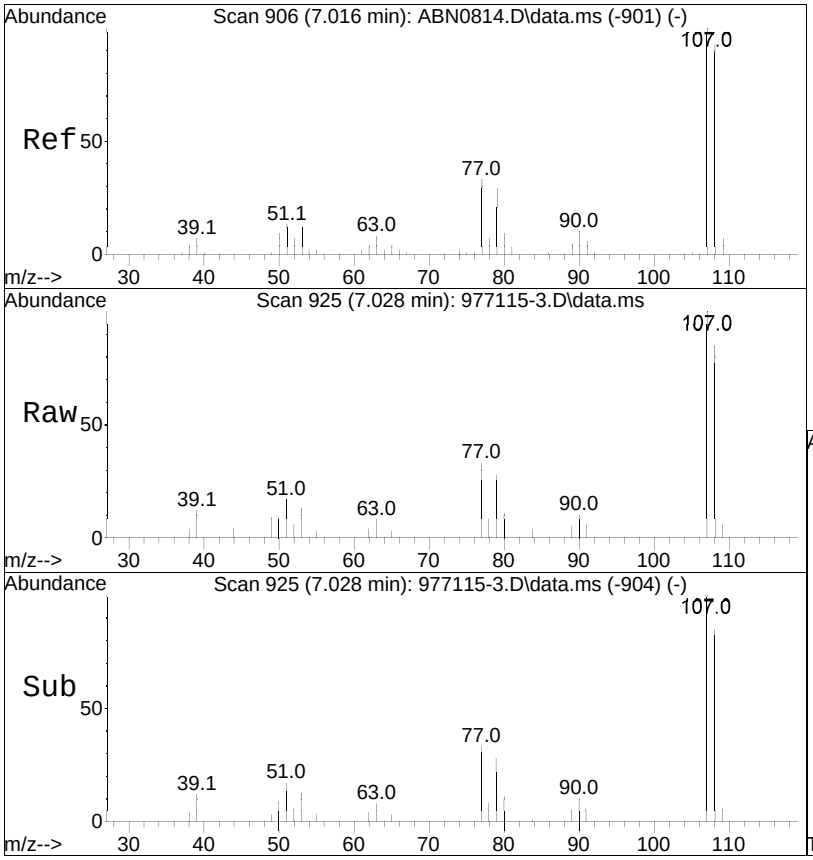


#17
n-Nitrosodi-n-propylamine
Concen: 1.24 ug/ml
RT: 6.998 min Scan# 920
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion: 70 Resp: 3483

Ion	Ratio	Lower	Upper
70	100		
130	20.2	18.2	27.4
101	0.0	7.8	11.8#

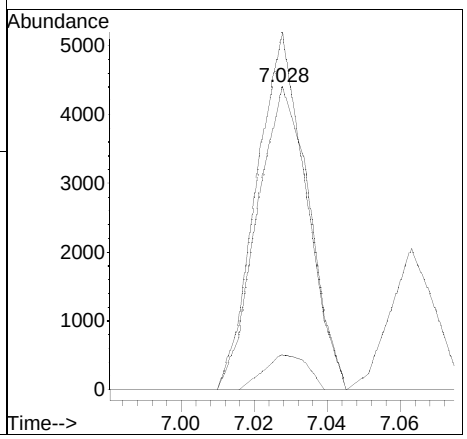


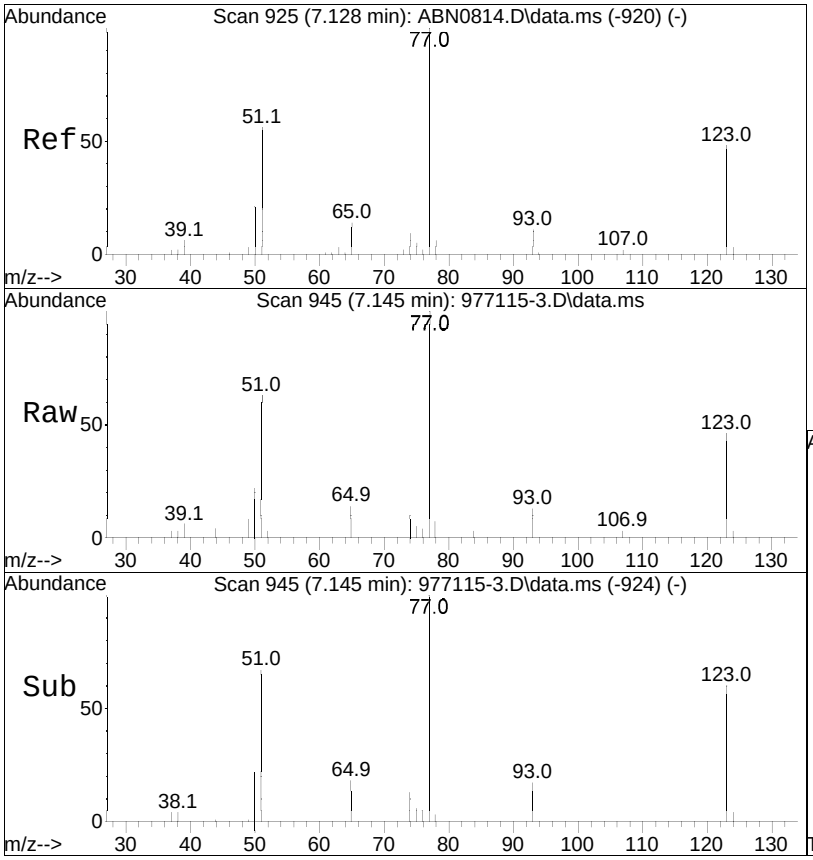


#18
3-Methylphenol/4-Methylphenol
Concen: 1.09 ug/ml
RT: 7.028 min Scan# 925
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:108 Resp: 4419

Ion	Ratio	Lower	Upper
108	100		
107	109.7	88.6	132.8
90	9.6	8.8	13.2

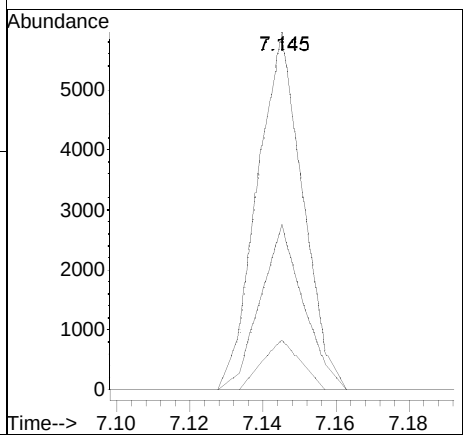


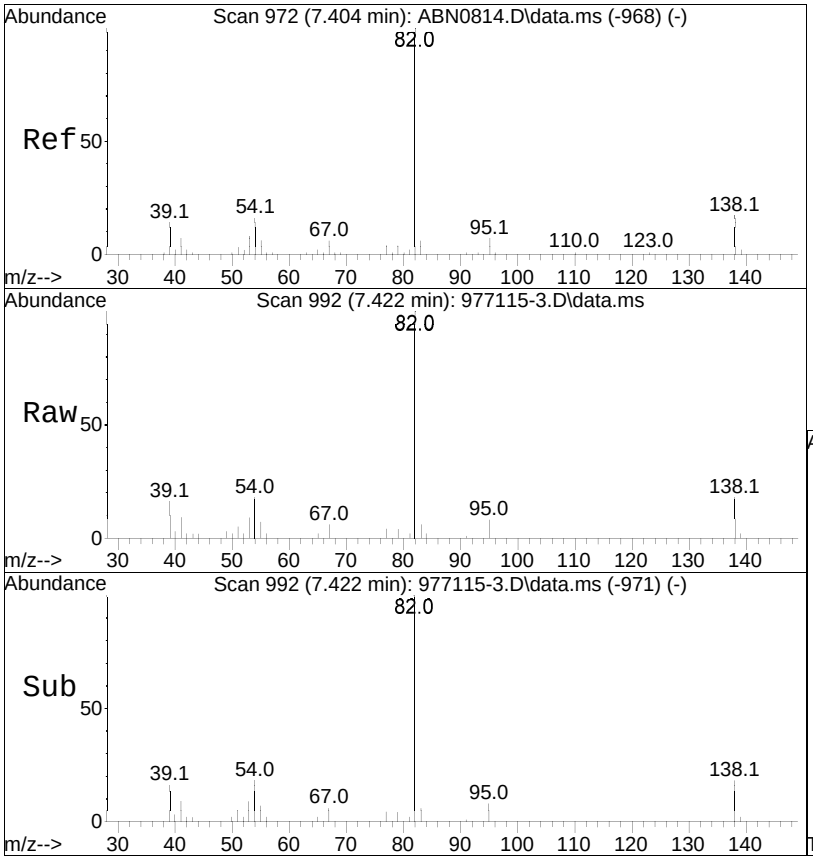


#20
Nitrobenzene
Concen: 1.20 ug/ml
RT: 7.145 min Scan# 945
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion: 77 Resp: 5108

Ion	Ratio	Lower	Upper
77	100		
123	43.9	36.3	54.5
65	11.7	11.6	17.4

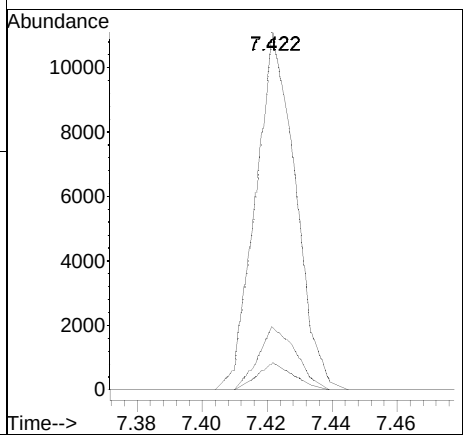


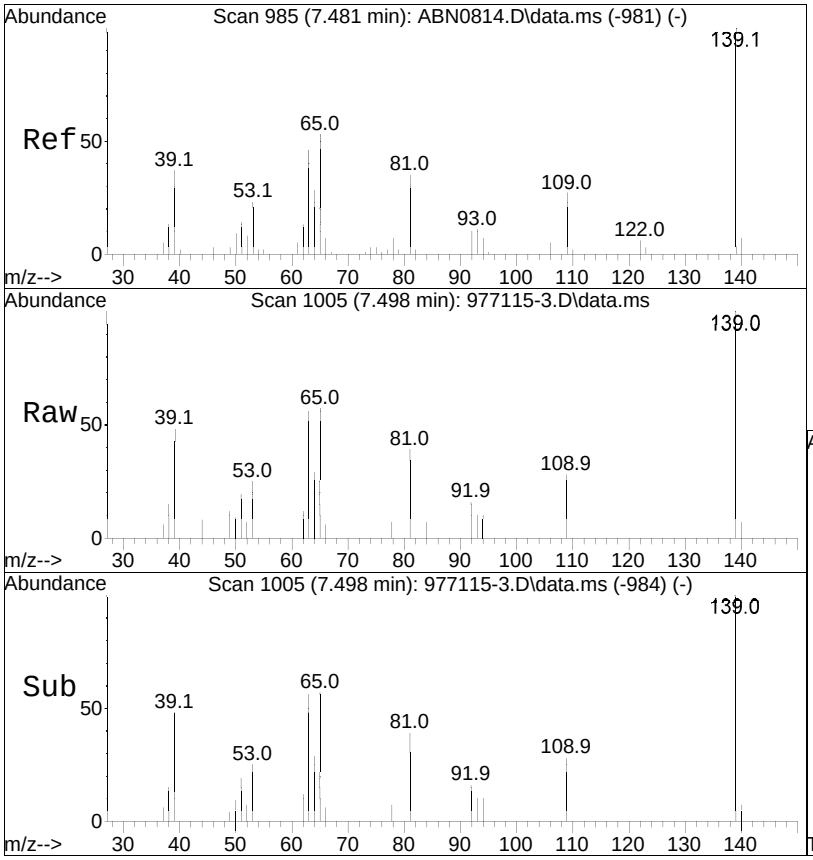


#21
Isophorone
Concen: 1.23 ug/ml
RT: 7.422 min Scan# 992
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion: 82 Resp: 9361

Ion	Ratio	Lower	Upper
82	100		
138	16.7	14.7	22.1
95	7.0	5.2	7.8

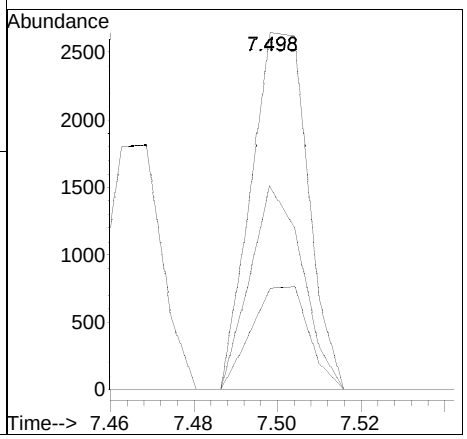


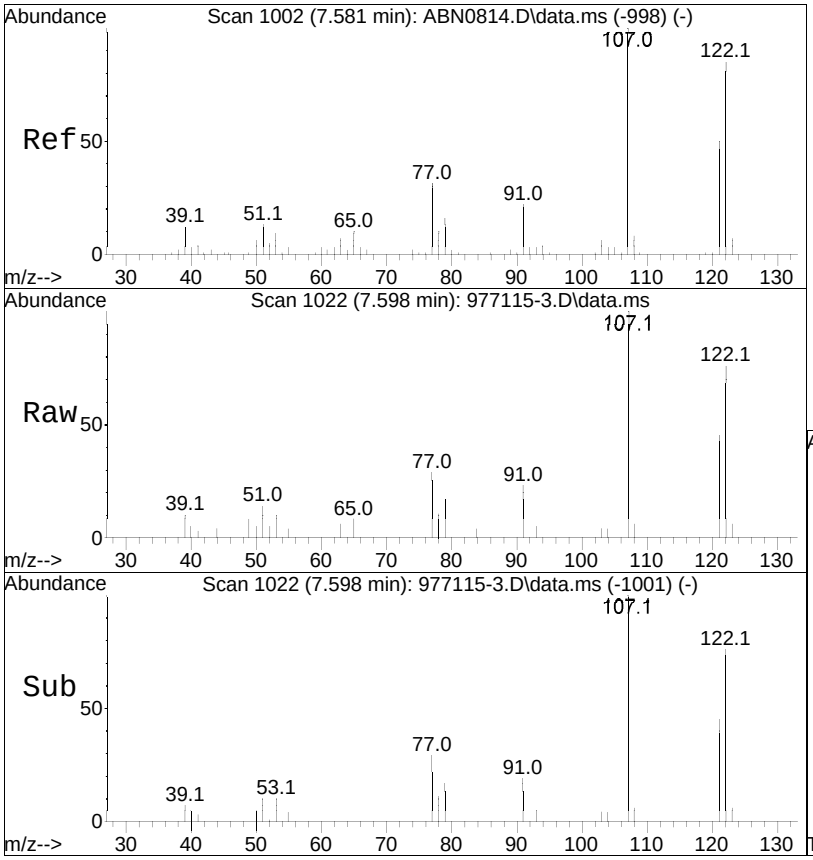


#22
2-Nitrophenol
Concen: 1.15 ug/ml
RT: 7.498 min Scan# 1005
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:139 Resp: 2498

Ion	Ratio	Lower	Upper
139	100		
109	29.1	19.4	29.0#
65	52.6	46.1	69.1

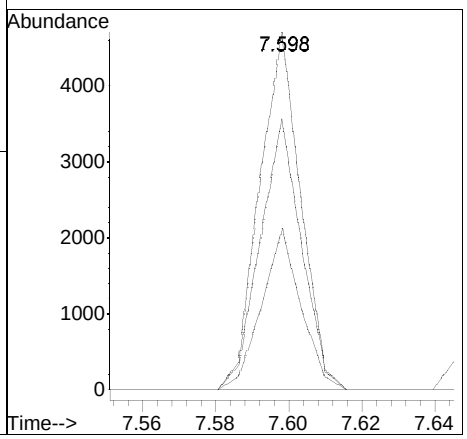


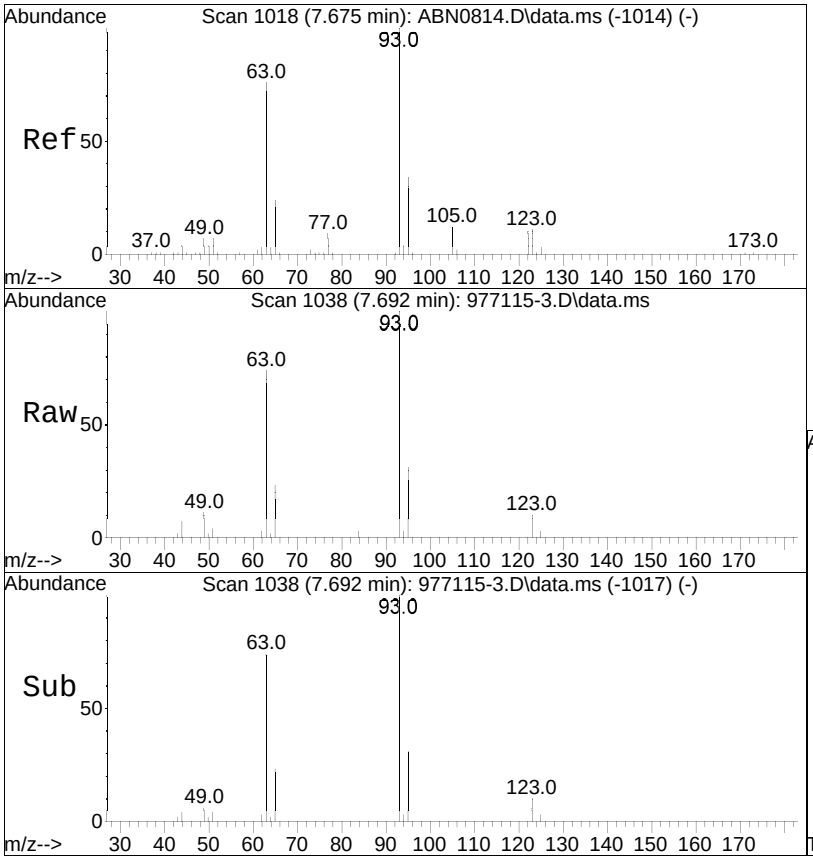


#23
2,4-Dimethylphenol
Concen: 1.03 ug/ml
RT: 7.598 min Scan# 1022
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:107 Resp: 3633

Ion	Ratio	Lower	Upper
107	100		
121	43.4	40.0	60.0
122	76.4	70.2	105.4

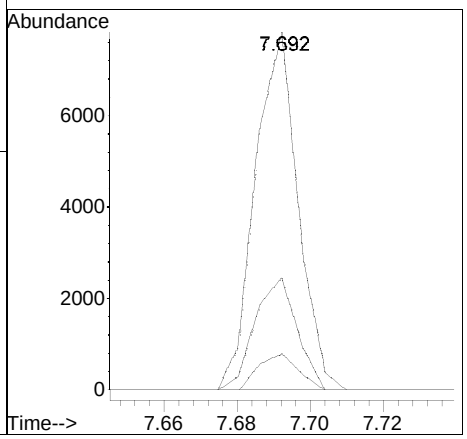


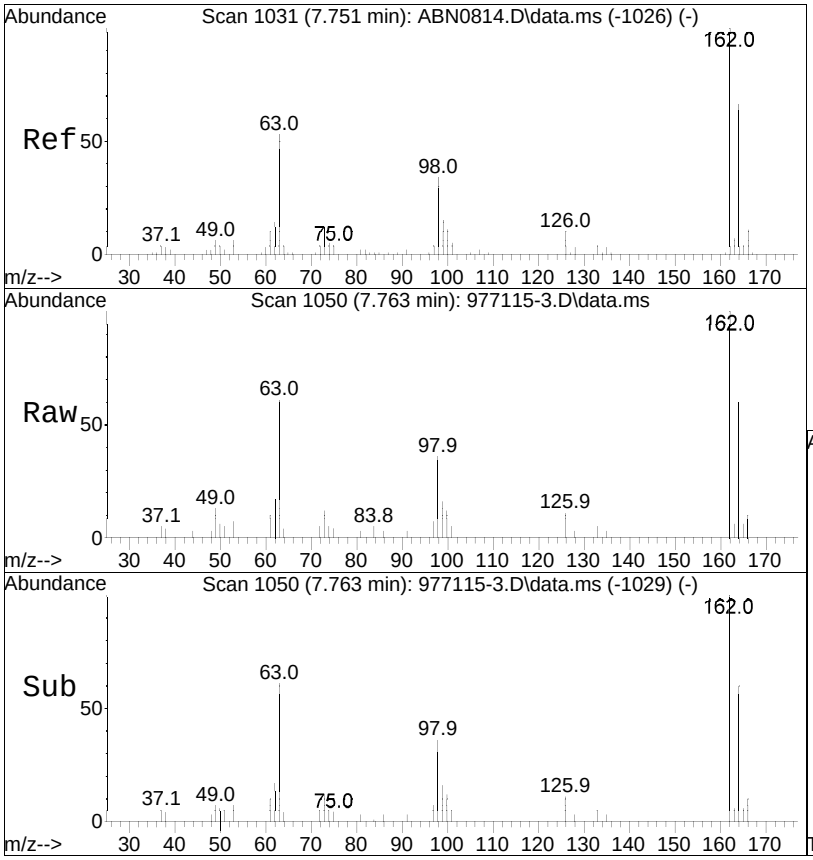


#24
Bis(2-chloroethoxy)methane
Concen: 1.22 ug/ml
RT: 7.692 min Scan# 1038
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion: 93 Resp: 6282

Ion	Ratio	Lower	Upper
93	100		
95	31.0	25.8	38.8
123	9.4	10.1	15.1#

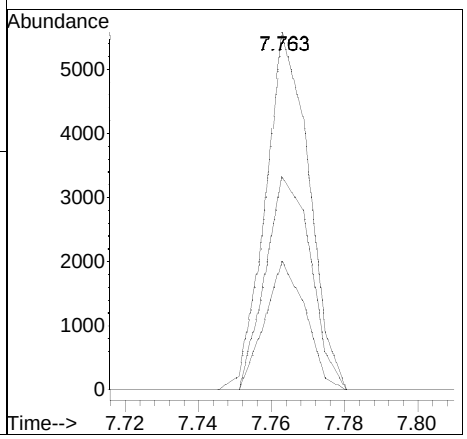


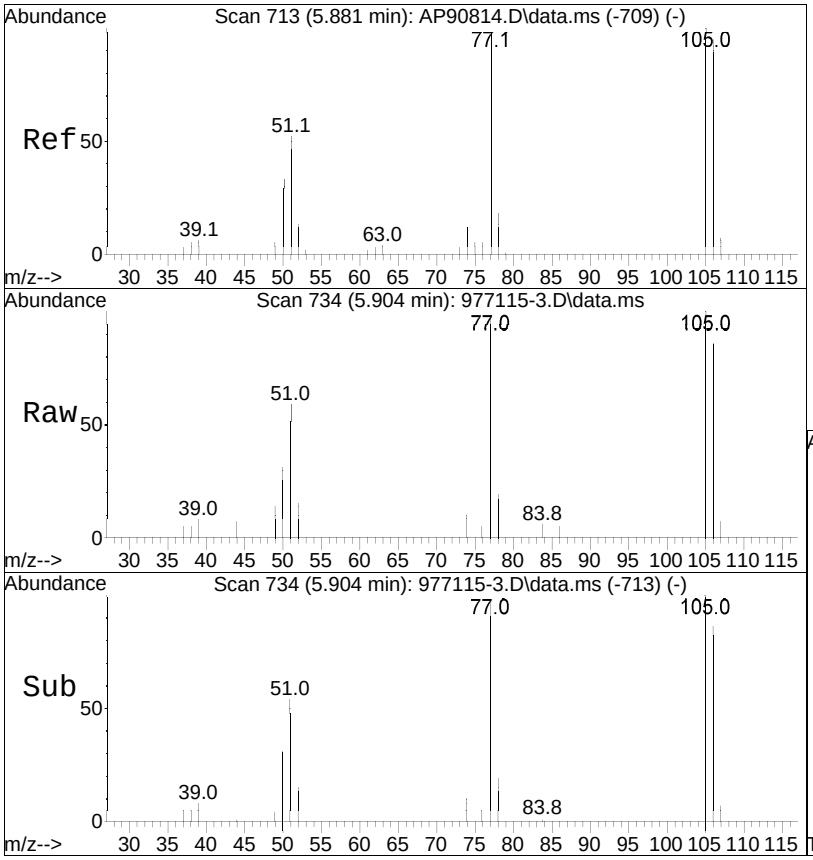


#25
2,4-Dichlorophenol
Concen: 1.19 ug/ml
RT: 7.763 min Scan# 1050
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:162 Resp: 4578

Ion	Ratio	Lower	Upper
162	100		
164	62.1	51.0	76.4
98	33.9	32.2	48.2

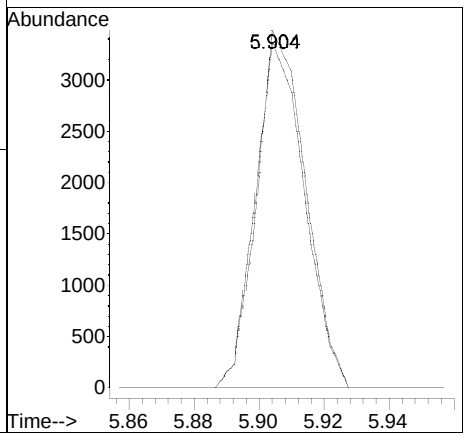


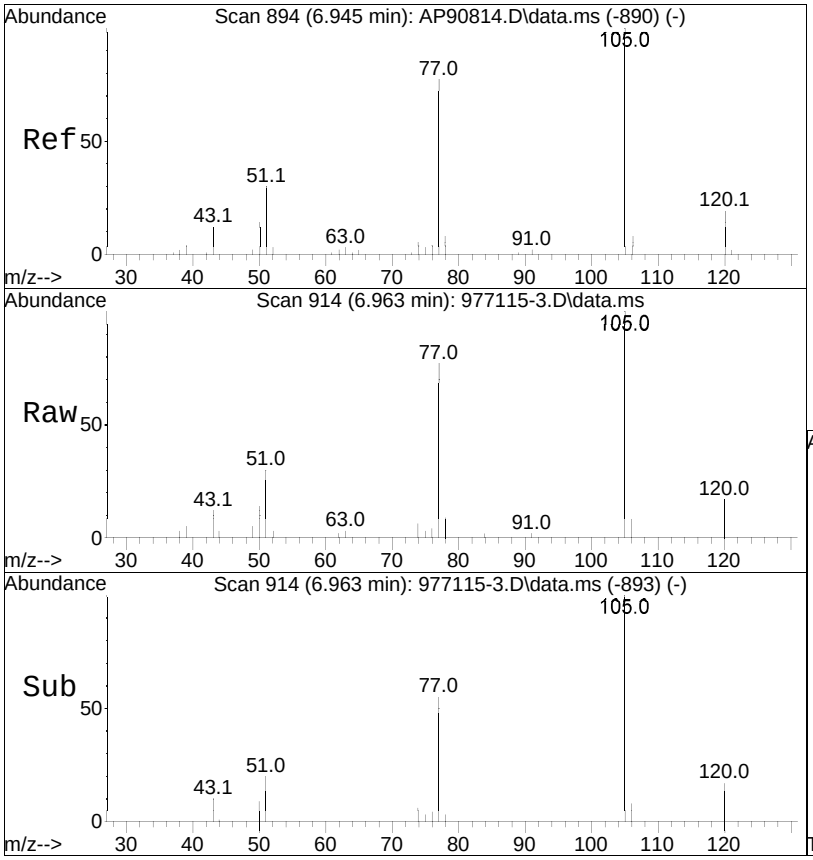


#28
Benzaldehyde
Concen: 0.97 ug/ml
RT: 5.904 min Scan# 734
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:105 Resp: 3622

Ion	Ratio	Lower	Upper
105	100		
77	97.1	82.2	123.4

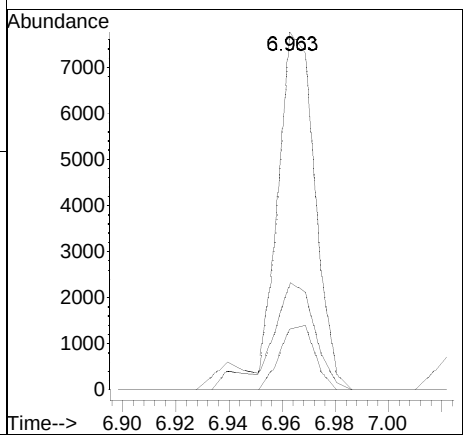


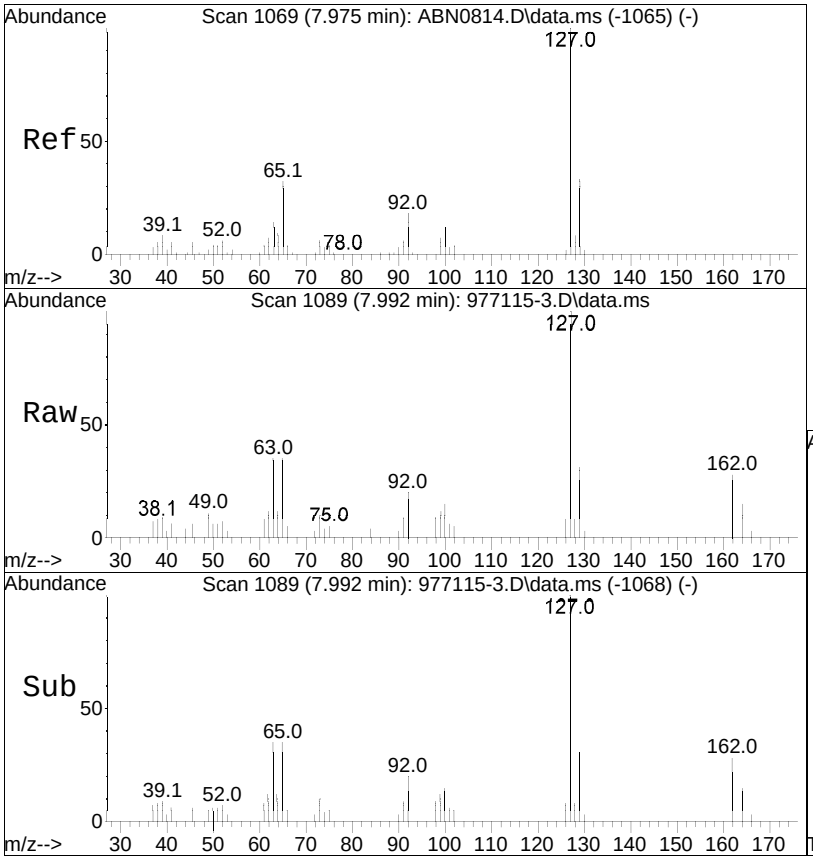


#29
Acetophenone
Concen: 1.17 ug/ml
RT: 6.963 min Scan# 914
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:105 Resp: 7747

Ion	Ratio	Lower	Upper
105	100		
120	16.4	20.5	30.7#
51	37.4	34.9	52.3

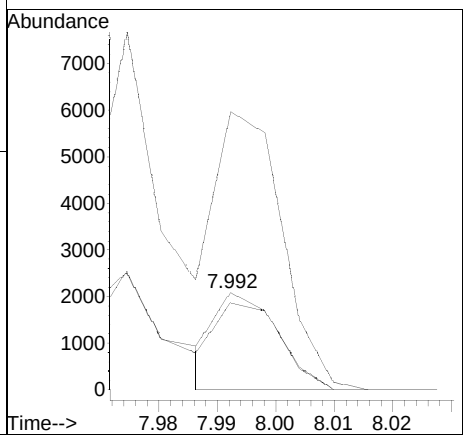


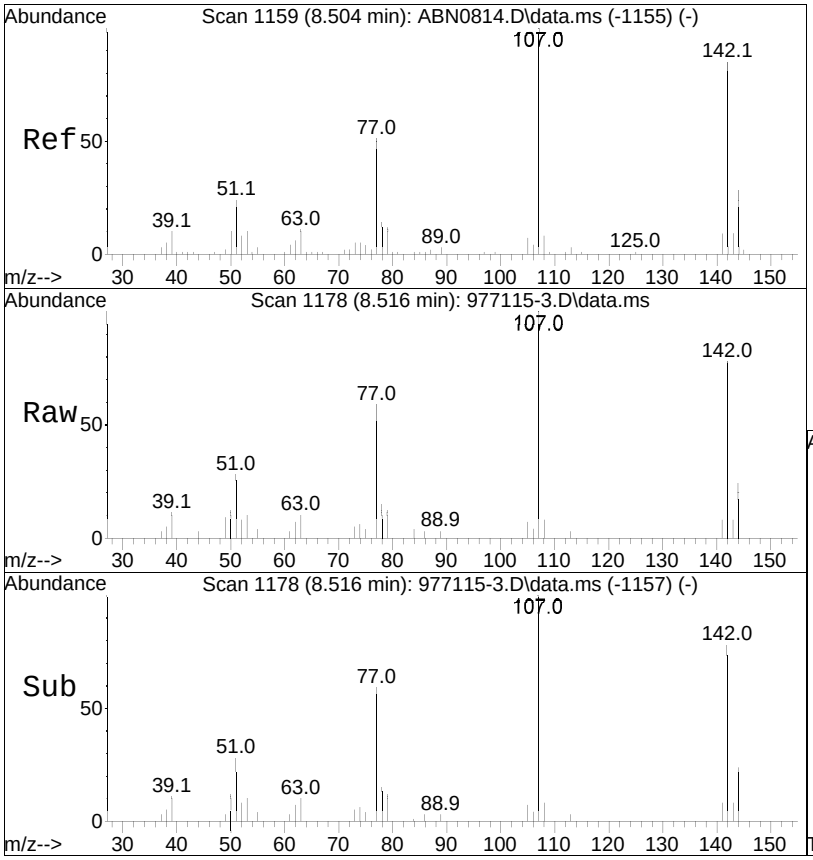


#38
4-Chloroaniline
Concen: 0.96 ug/ml
RT: 7.992 min Scan# 1089
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion: 65 Resp: 1503

Ion	Ratio	Lower	Upper
65	100		
127	308.1	237.6	356.4
129	95.4	76.3	114.5

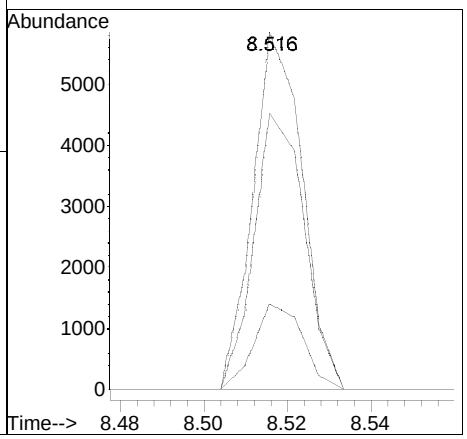


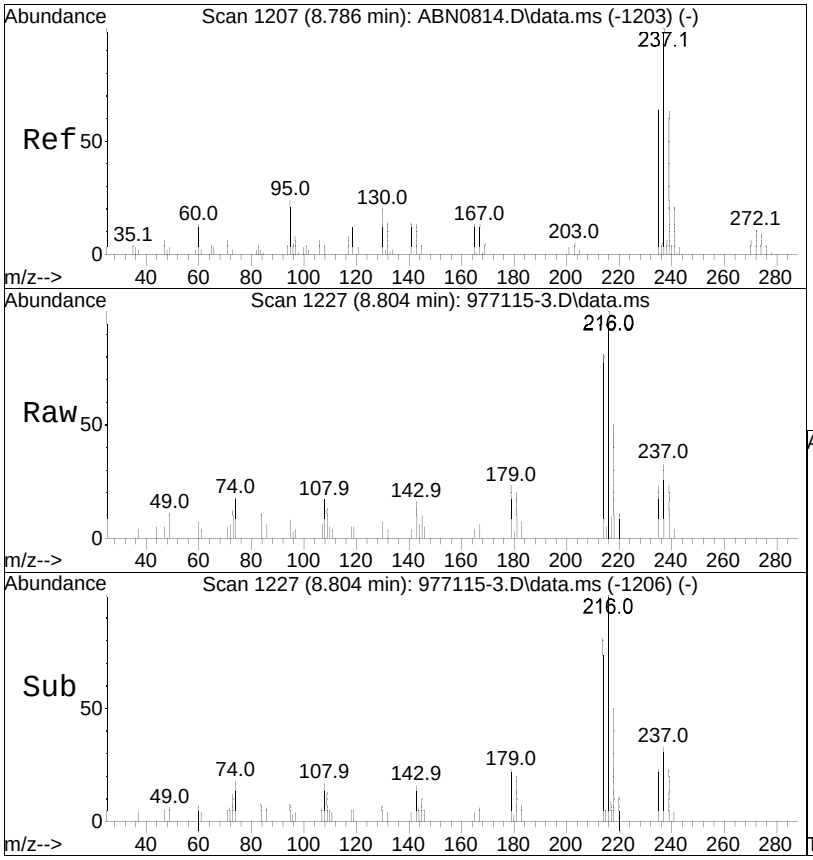


#40
p-Chloro-m-cresol
Concen: 1.37 ug/ml
RT: 8.516 min Scan# 1178
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:107 Resp: 4780

Ion	Ratio	Lower	Upper
107	100		
144	23.7	20.9	31.3
142	78.8	66.1	99.1

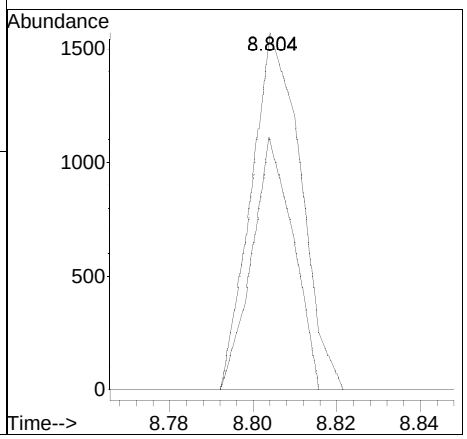


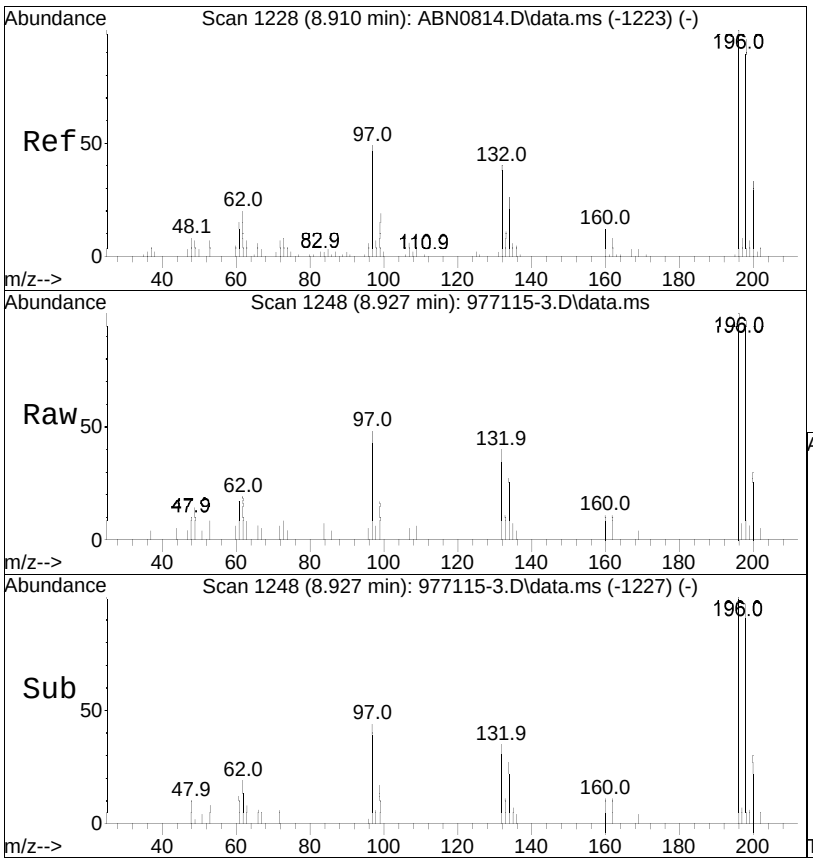


#43
Hexachlorocyclopentadiene
Concen: 0.49 ug/ml
RT: 8.804 min Scan# 1227
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:237 Resp: 1289

Ion	Ratio	Lower	Upper
237	100		
235	59.0	49.7	74.5
272	0.0	9.8	14.6#

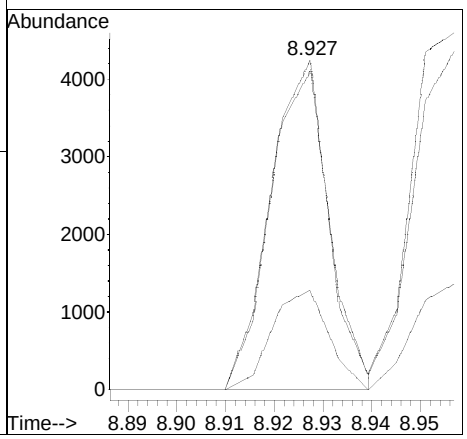


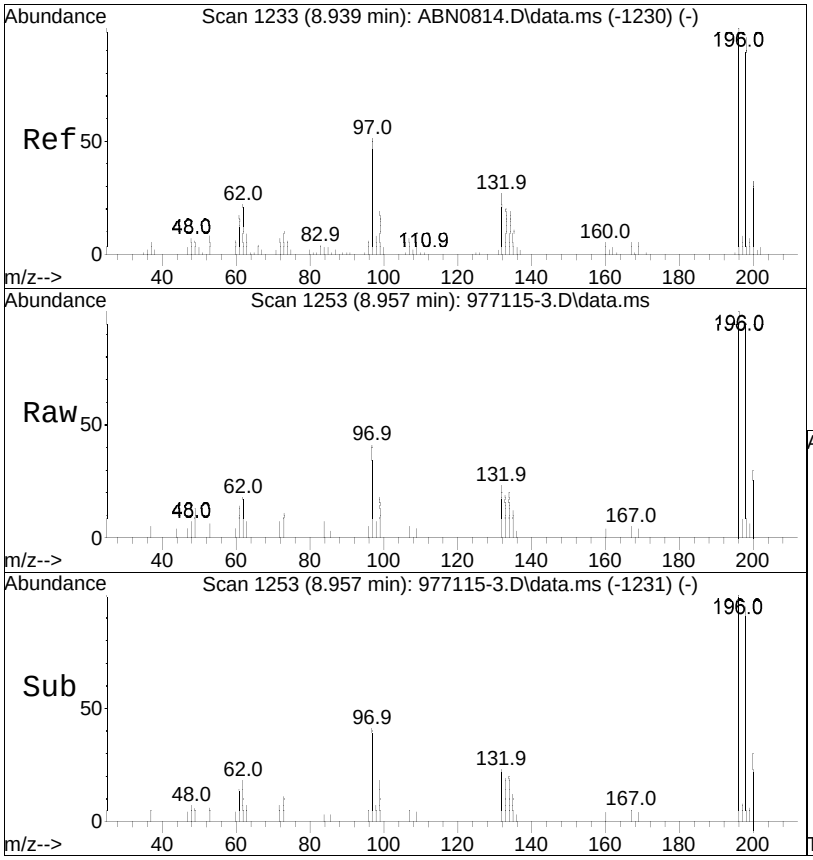


#44
2,4,6-Trichlorophenol
Concen: 1.22 ug/ml
RT: 8.927 min Scan# 1248
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:196 Resp: 3520

Ion	Ratio	Lower	Upper
196	100		
198	98.6	77.5	116.3
200	29.6	23.8	35.6

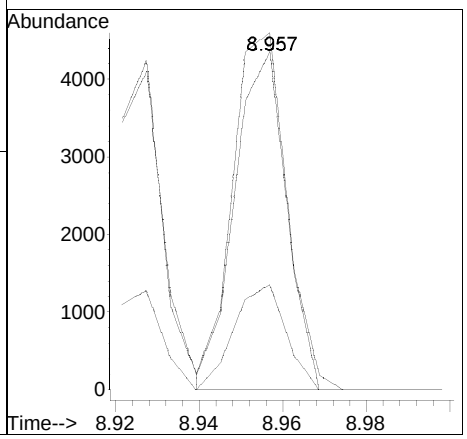


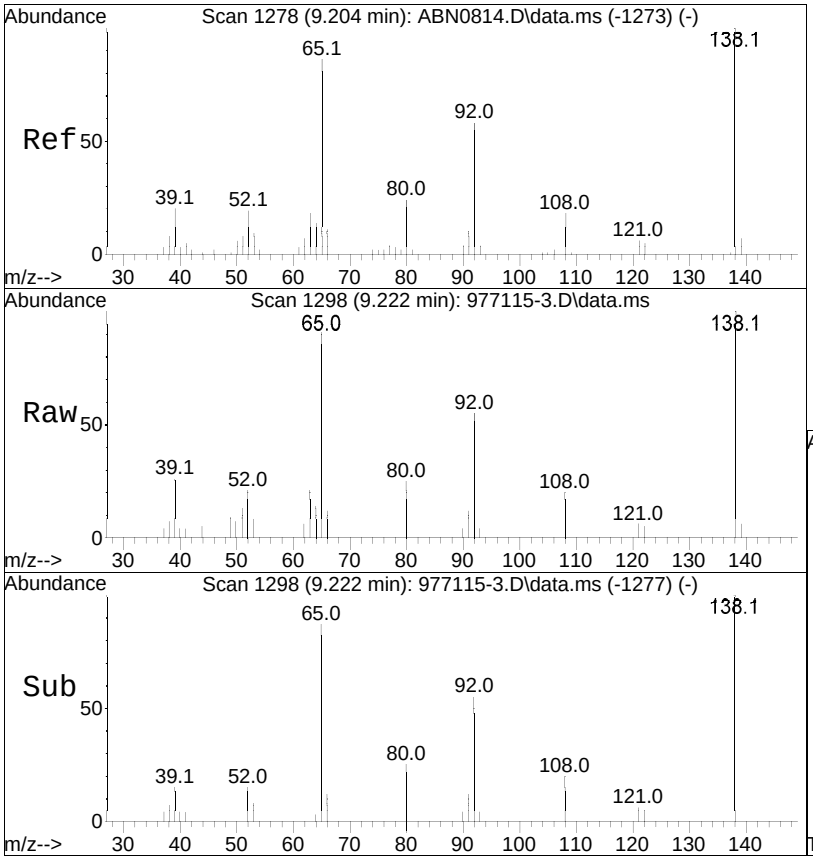


#45
2,4,5-Trichlorophenol
Concen: 1.34 ug/ml
RT: 8.957 min Scan# 1253
Delta R.T. 0.006 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:196 Resp: 4125

Ion	Ratio	Lower	Upper
196	100		
200	28.2	25.4	38.0
198	90.1	78.0	117.0

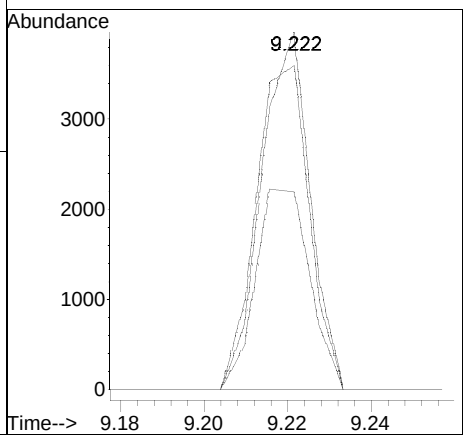


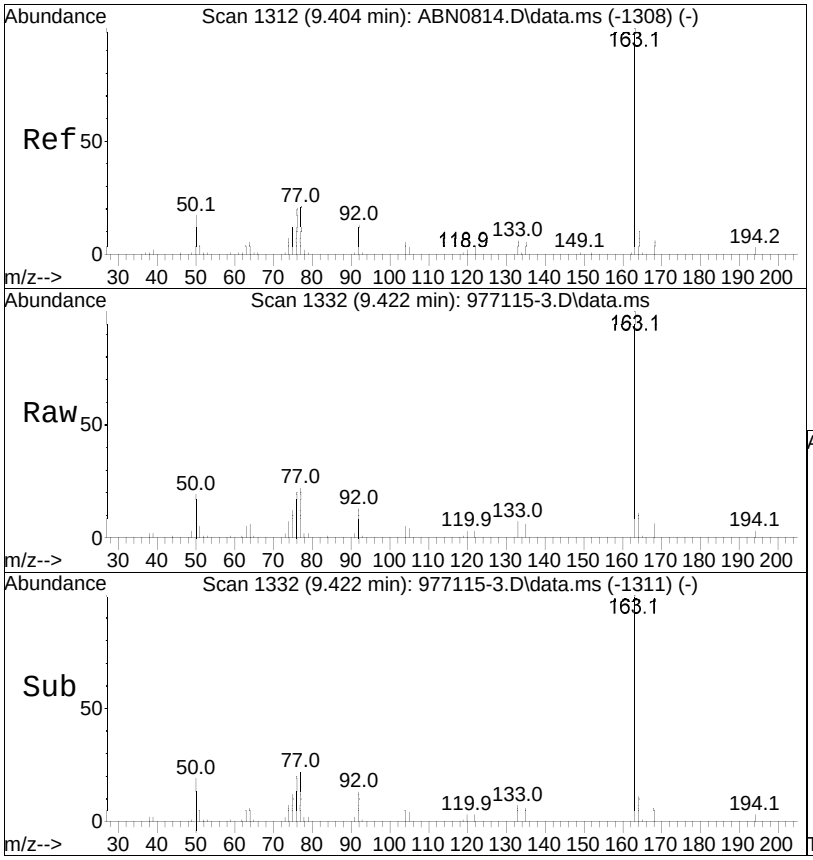


#48
2-Nitroaniline
Concen: 1.26 ug/ml
RT: 9.222 min Scan# 1298
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:138 Resp: 3188

Ion	Ratio	Lower	Upper
138	100		
92	62.6	53.5	80.3
65	99.2	86.3	129.5

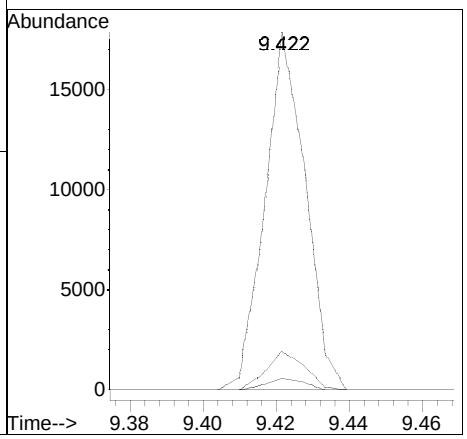


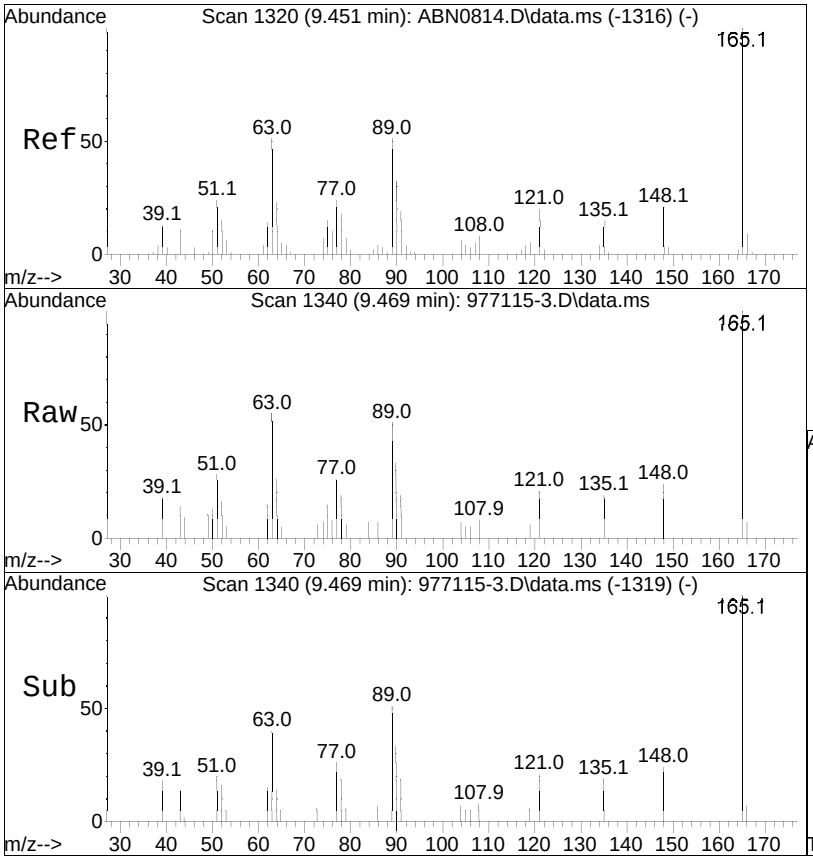


#51
Dimethyl phthalate
Concen: 1.27 ug/ml
RT: 9.422 min Scan# 1332
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:163 Resp: 13597

Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	10.4	7.9	11.9

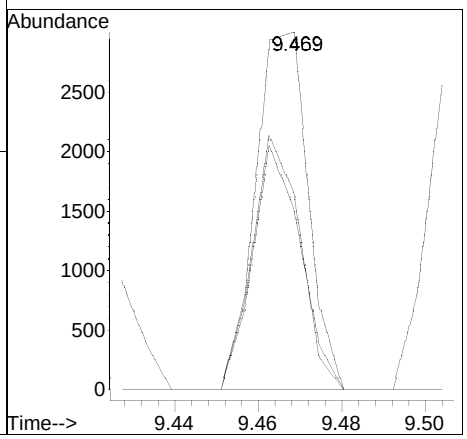


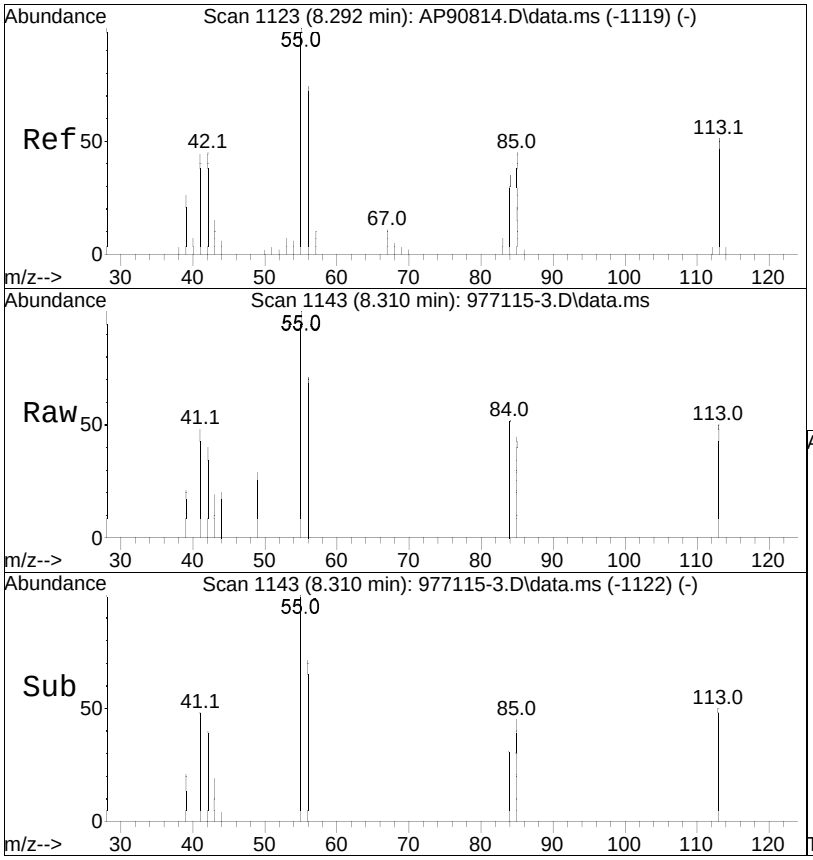


#53
2,6-Dinitrotoluene
Concen: 1.26 ug/ml
RT: 9.469 min Scan# 1340
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:165 Resp: 2623

Ion	Ratio	Lower	Upper
165	100		
89	62.4	54.2	81.2
63	64.6	64.2	96.2

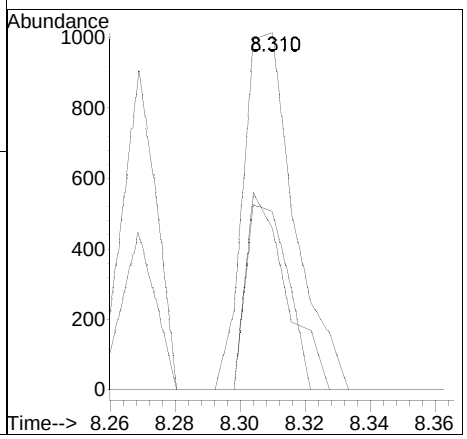


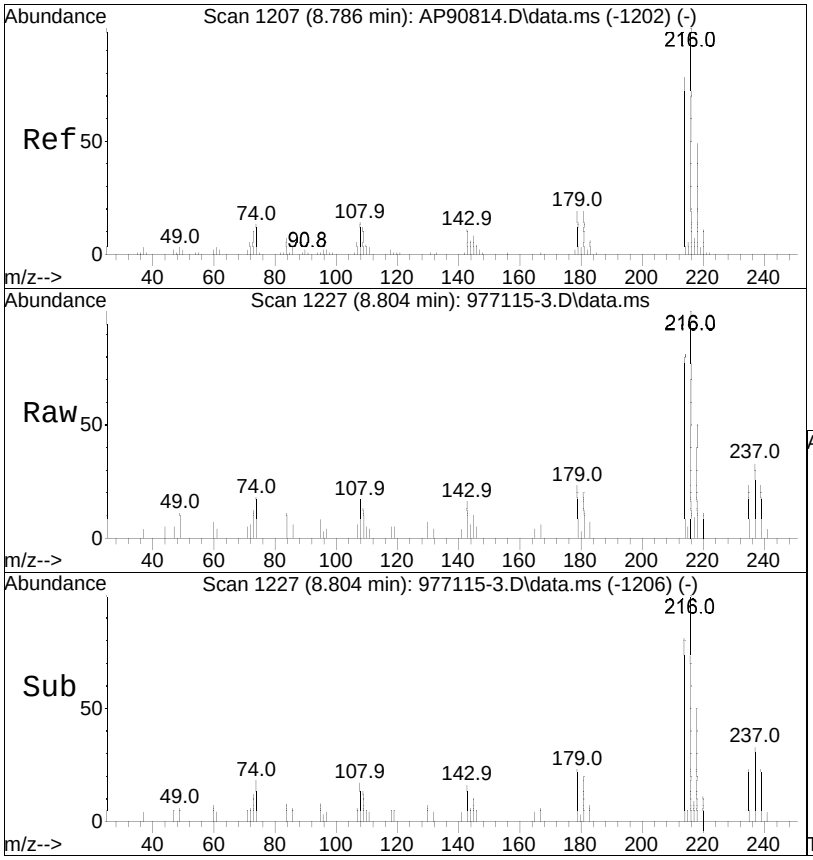


#60
Caprolactam
Concen: 1.06 ug/ml
RT: 8.310 min Scan# 1143
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion: 55 Resp: 1110

Ion	Ratio	Lower	Upper
55	100		
85	43.9	19.8	29.6#
113	41.8	29.6	44.4

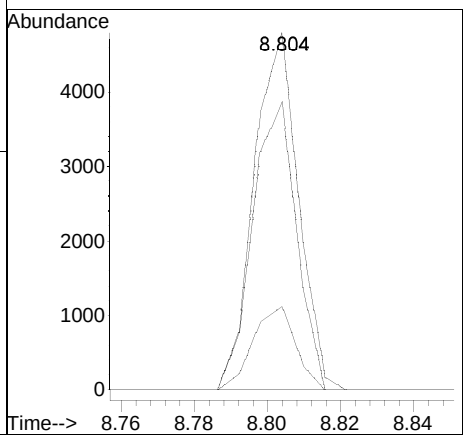


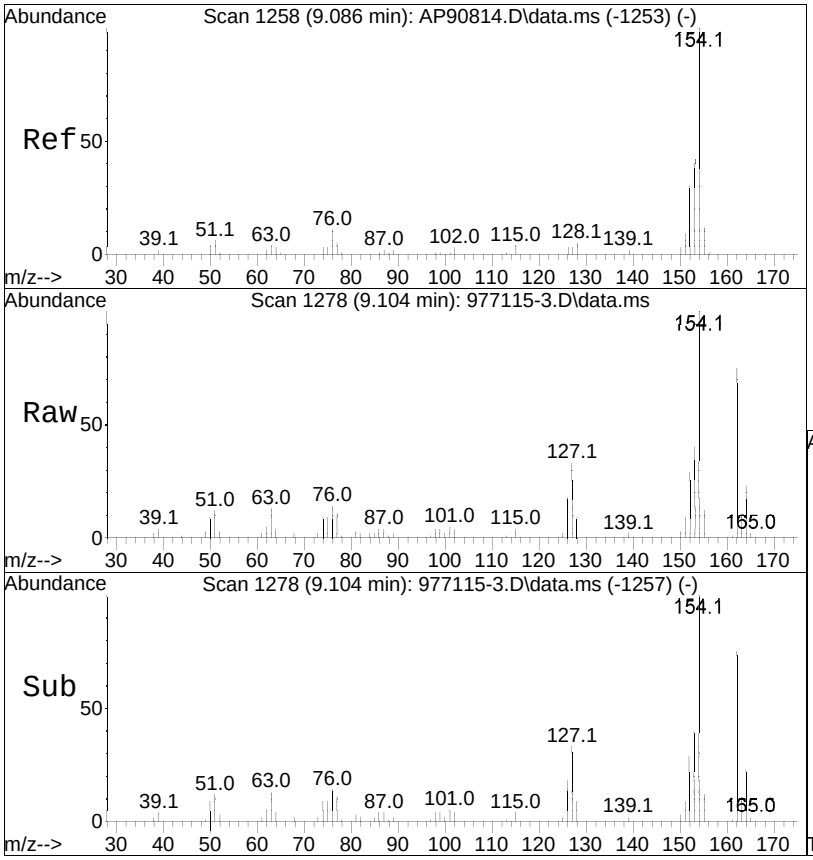


#61
1,2,4,5-Tetrachlorobenzene
Concen: 0.73 ug/ml
RT: 8.804 min Scan# 1227
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:216 Resp: 4028

Ion	Ratio	Lower	Upper
216	100		
214	79.9	63.7	95.5
179	22.4	19.0	28.6

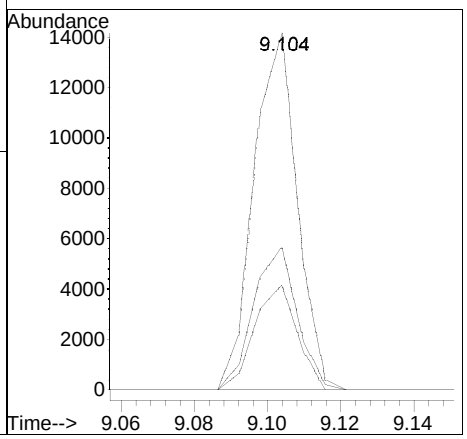


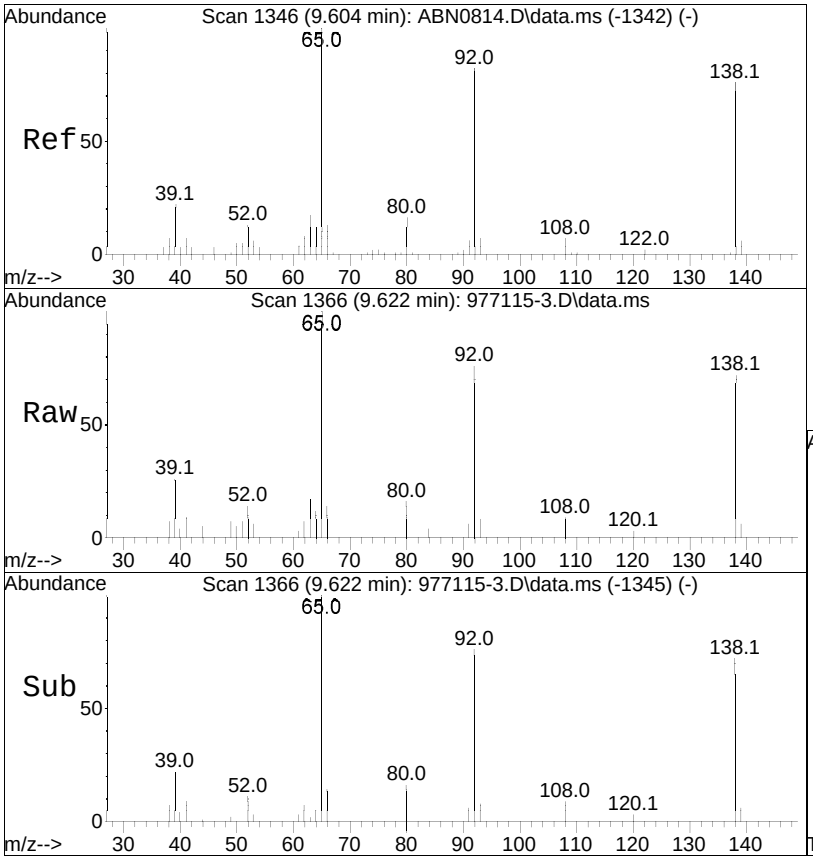


#62
Biphenyl
Concen: 0.90 ug/ml
RT: 9.104 min Scan# 1278
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:154 Resp: 11592

Ion	Ratio	Lower	Upper
154	100		
153	40.4	32.3	48.5
152	29.1	22.5	33.7

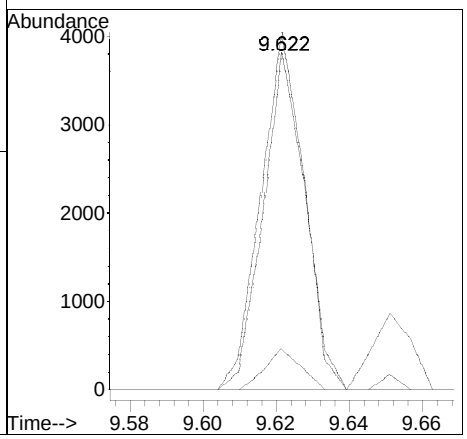


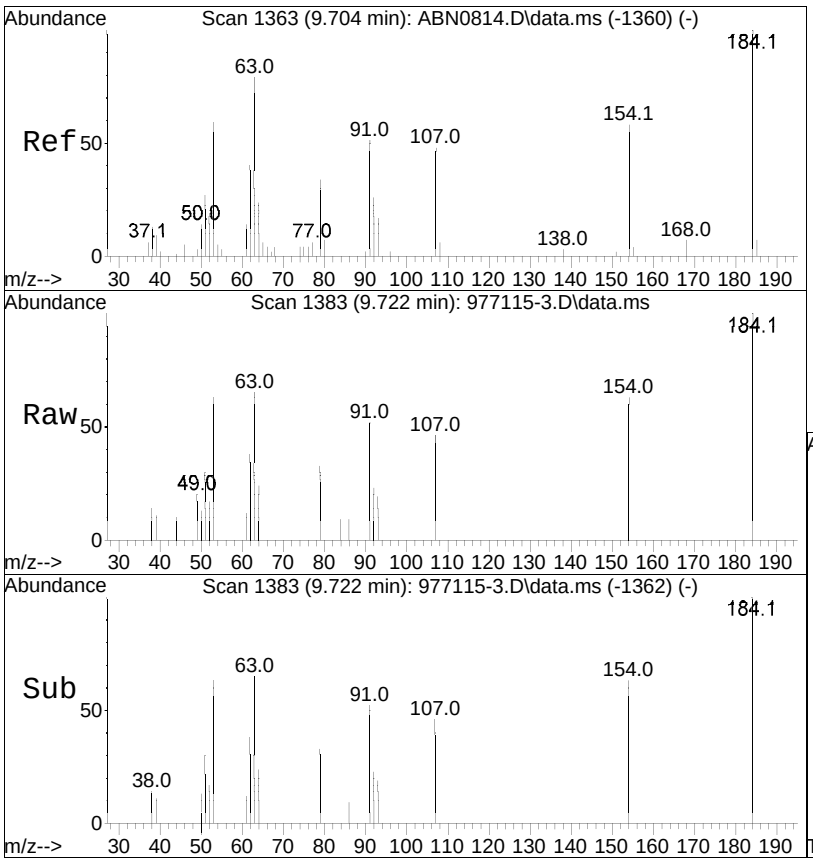


#64
3-Nitroaniline
Concen: 1.26 ug/ml
RT: 9.622 min Scan# 1366
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:138 Resp: 3028

Ion	Ratio	Lower	Upper
138	100		
92	108.9	93.4	140.2
108	21.2	9.5	14.3#

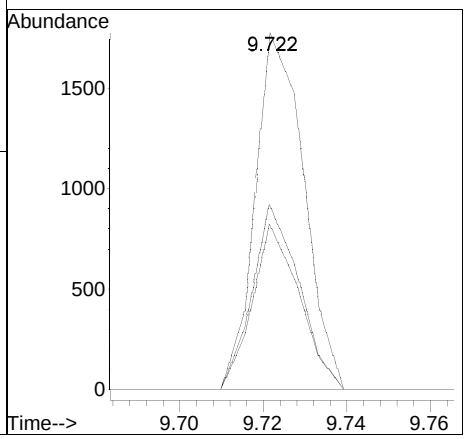


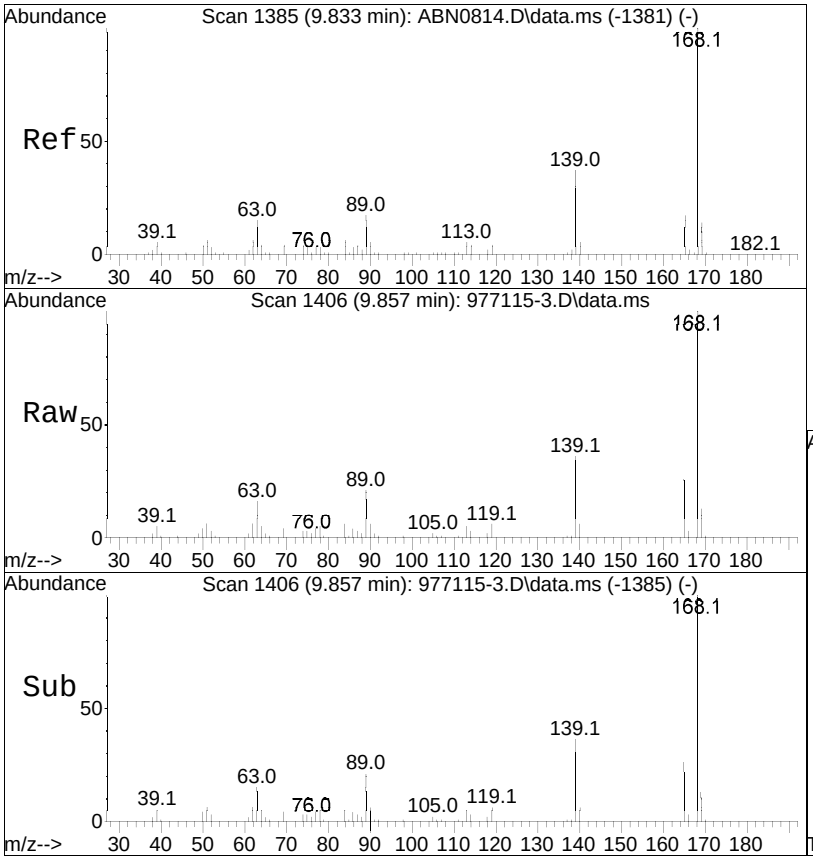


#66
2,4-Dinitrophenol
Concen: 1.79 ug/ml
RT: 9.722 min Scan# 1383
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:184 Resp: 1429

Ion	Ratio	Lower	Upper
184	100		
107	44.9	37.7	56.5
91	50.2	46.3	69.5

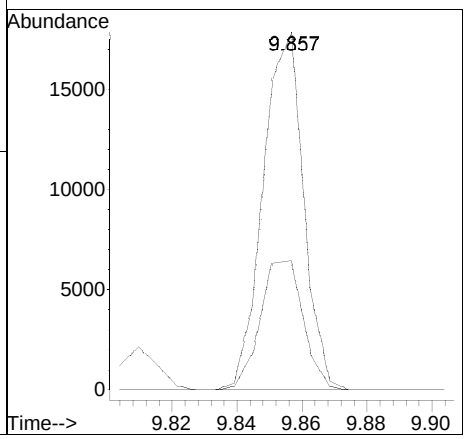


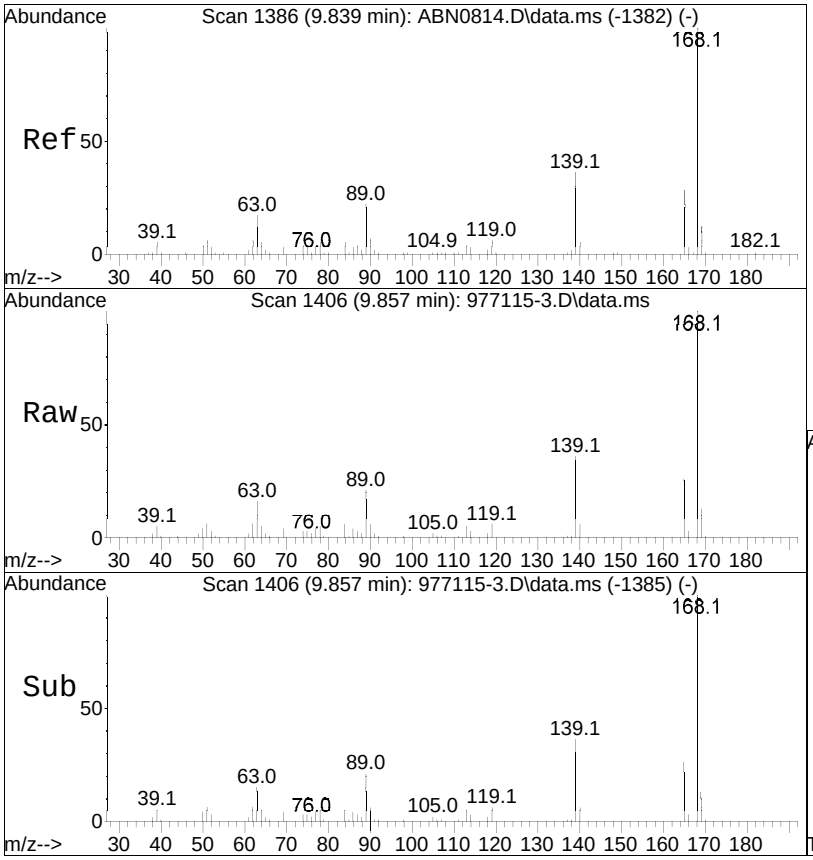


#67
Dibenzofuran
Concen: 1.08 ug/ml
RT: 9.857 min Scan# 1406
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:168 Resp: 15267

Ion	Ratio	Lower	Upper
168	100		
139	38.7	31.4	47.2

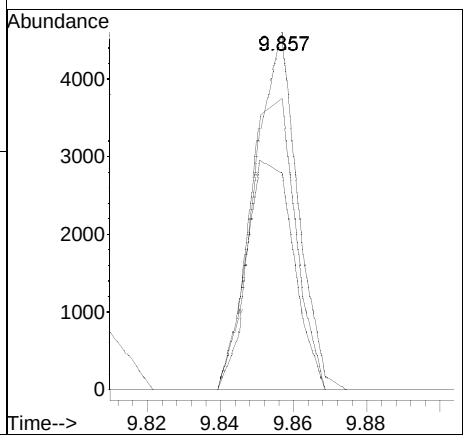


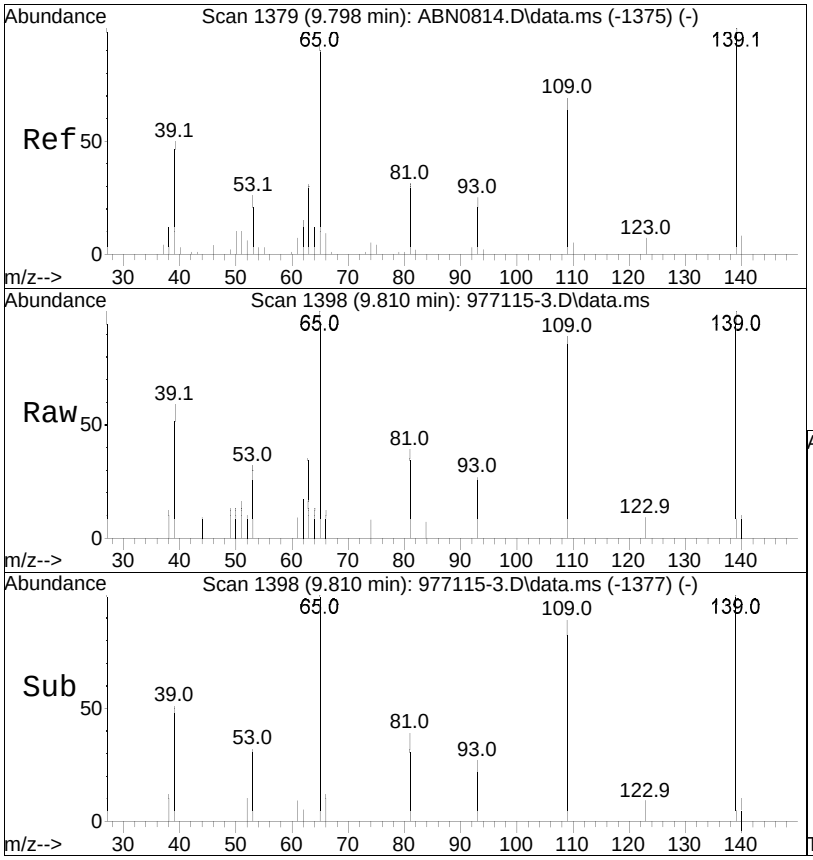


#68
2,4-Dinitrotoluene
Concen: 1.21 ug/ml
RT: 9.857 min Scan# 1406
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:165 Resp: 3700

Ion	Ratio	Lower	Upper
165	100		
89	89.3	72.0	108.0
63	72.5	52.7	79.1

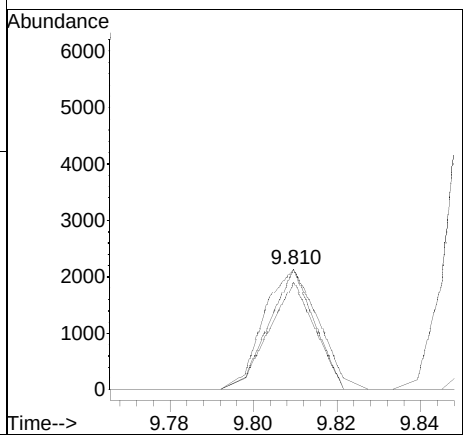


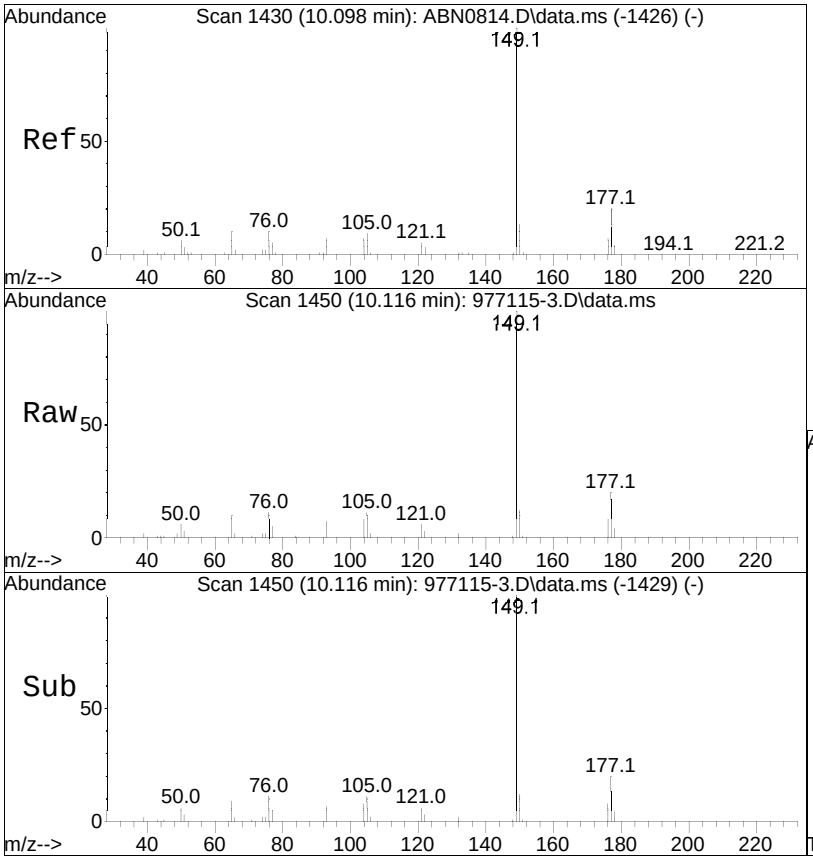


#69
4-Nitrophenol
Concen: 0.94 ug/ml
RT: 9.810 min Scan# 1398
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion: 65 Resp: 1787

Ion	Ratio	Lower	Upper
65	100		
109	81.8	47.4	71.2#
139	98.4	76.6	115.0

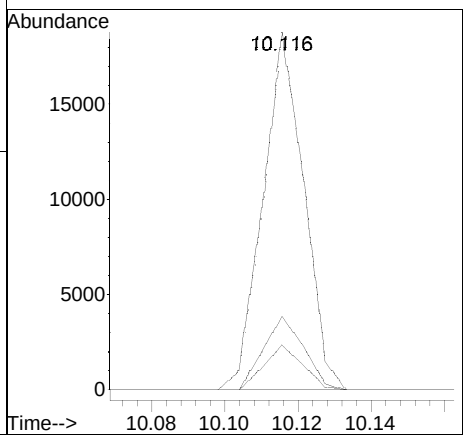


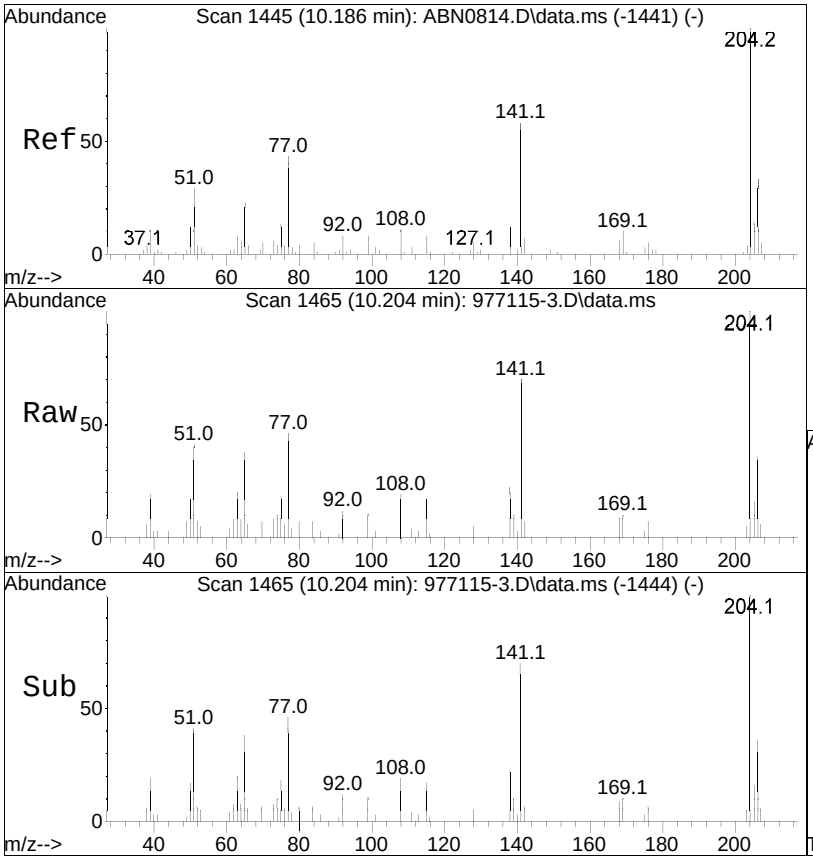


#72
Diethyl phthalate
Concen: 1.45 ug/ml
RT: 10.116 min Scan# 1450
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:149 Resp: 14418

Ion	Ratio	Lower	Upper
149	100		
177	20.3	16.1	24.1
150	12.0	9.4	14.2

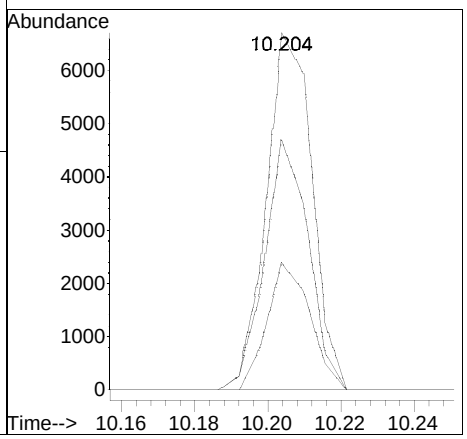


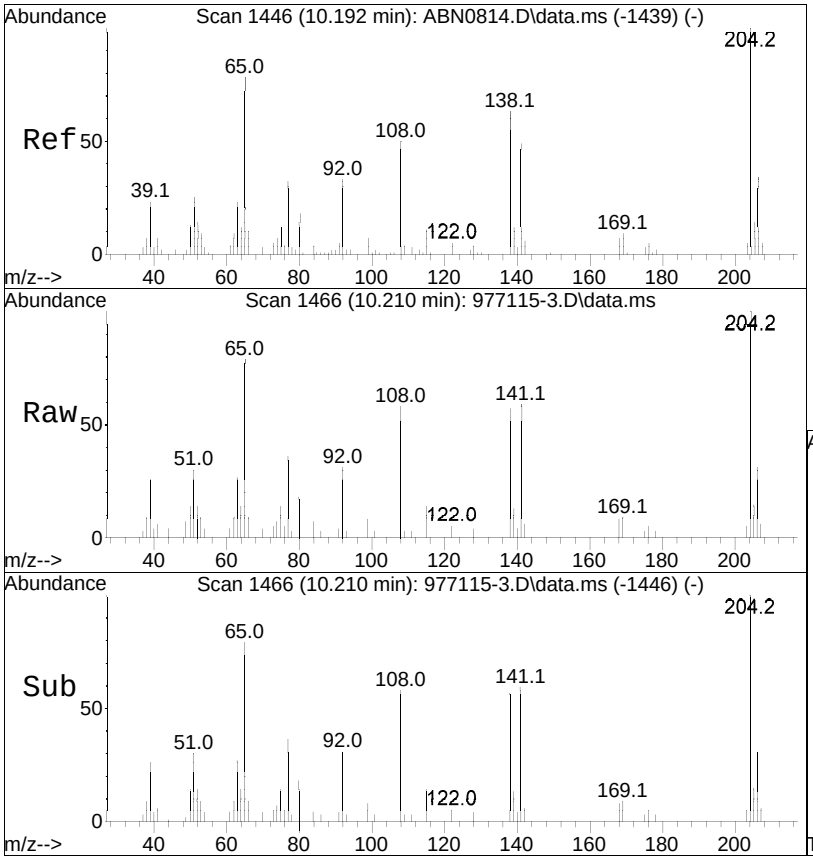


#74
4-Chlorophenyl phenyl ether
Concen: 1.08 ug/ml
RT: 10.204 min Scan# 1465
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:204 Resp: 5788

Ion	Ratio	Lower	Upper
204	100		
206	33.7	25.8	38.6
141	67.1	53.6	80.4

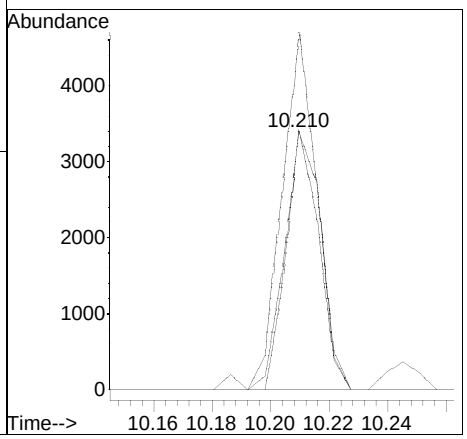


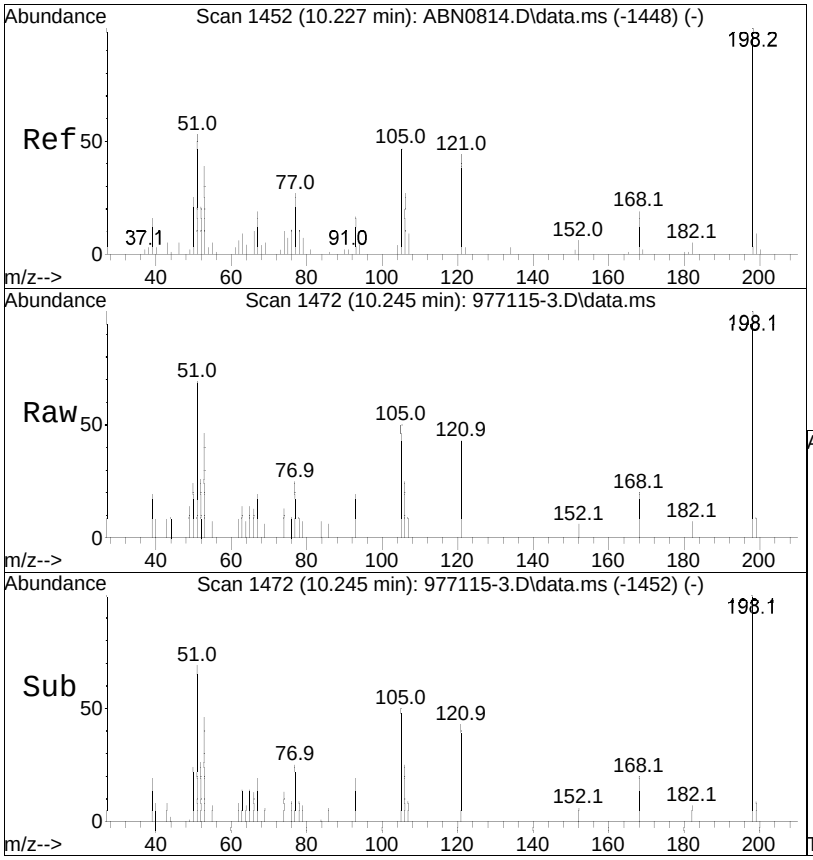


#75
4-Nitroaniline
Concen: 1.23 ug/ml
RT: 10.210 min Scan# 1466
Delta R.T. -0.006 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:138 Resp: 2963

Ion	Ratio	Lower	Upper
138	100		
108	88.0	52.1	78.1#
65	130.3	115.0	172.6

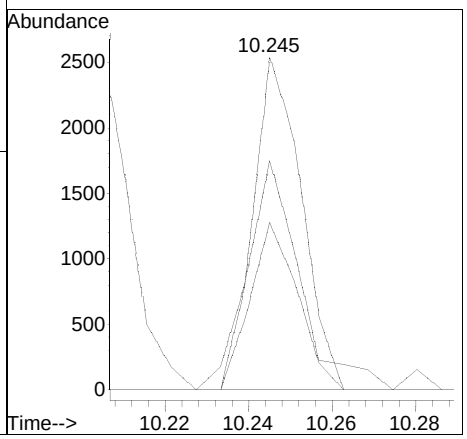


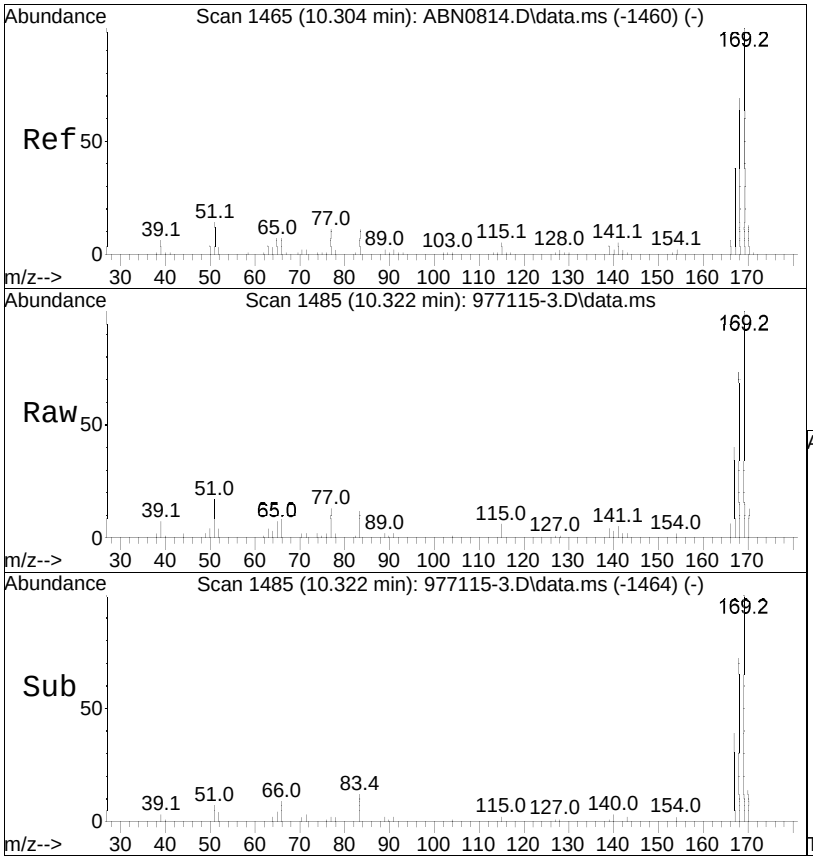


#76
4,6-Dinitro-o-cresol
Concen: 1.48 ug/ml
RT: 10.245 min Scan# 1472
Delta R.T. -0.006 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:198 Resp: 2045

Ion	Ratio	Lower	Upper
198	100		
51	78.0	76.0	114.0
105	49.3	45.6	68.4

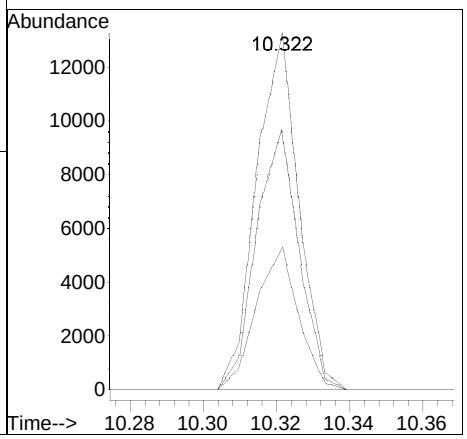


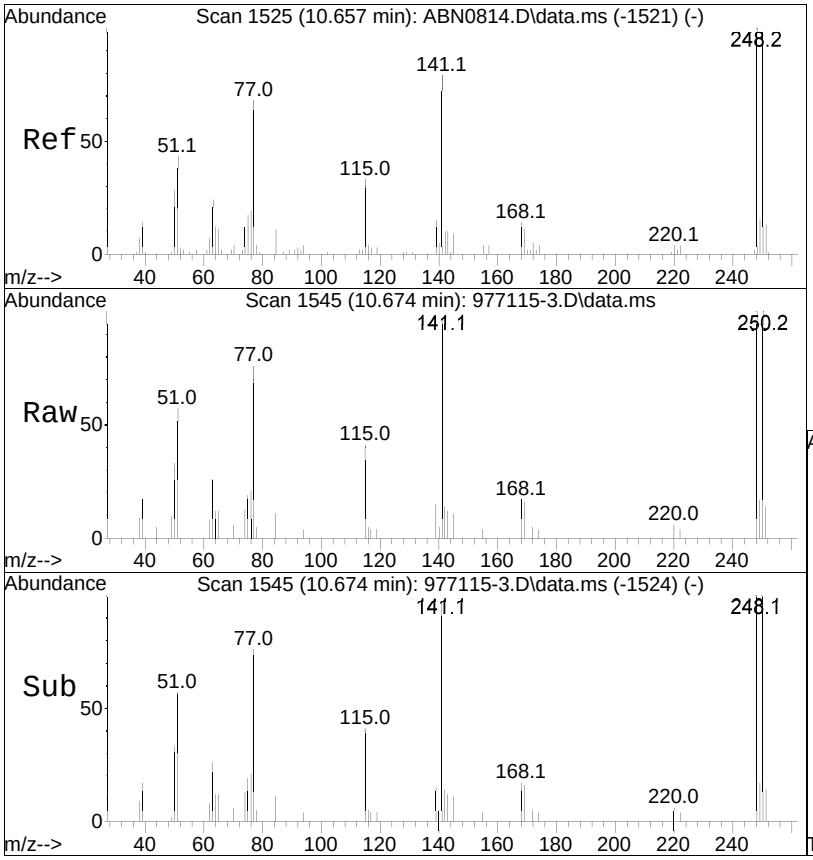


#77
NDPA/DPA
Concen: 1.22 ug/ml
RT: 10.322 min Scan# 1485
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:169 Resp: 10647

Ion	Ratio	Lower	Upper
169	100		
168	73.3	54.0	81.0
167	40.0	28.6	42.8

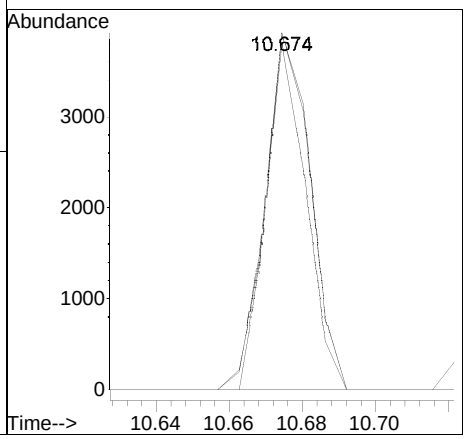


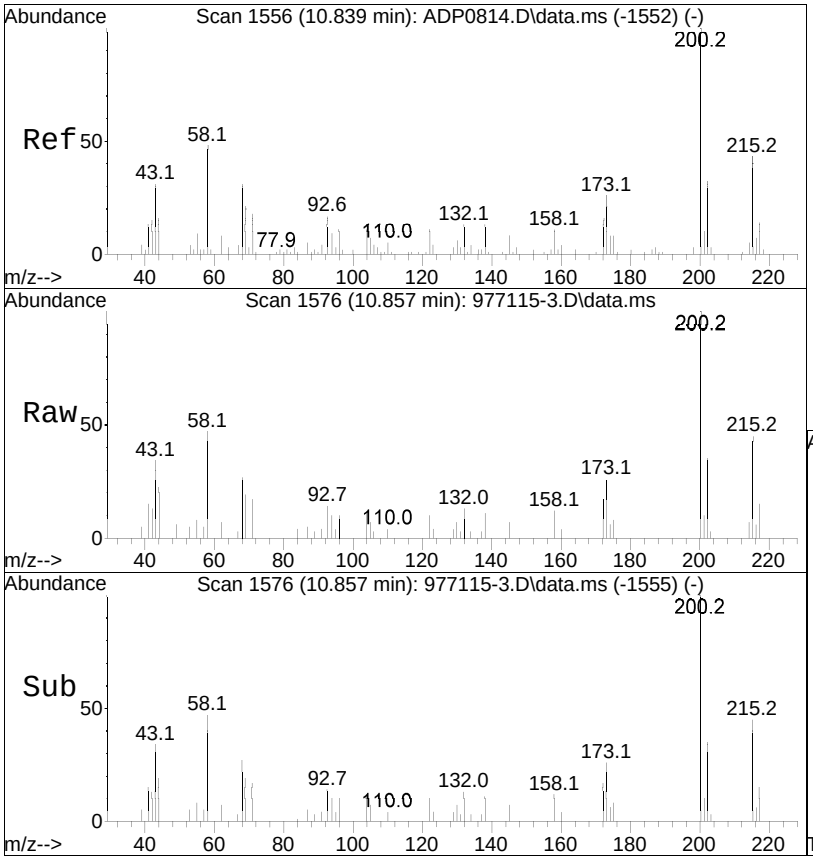


#80
4-Bromophenyl phenyl ether
Concen: 1.16 ug/ml
RT: 10.674 min Scan# 1545
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:248 Resp: 3346

Ion	Ratio	Lower	Upper
248	100		
141	88.6	76.6	114.8
250	97.4	77.3	115.9

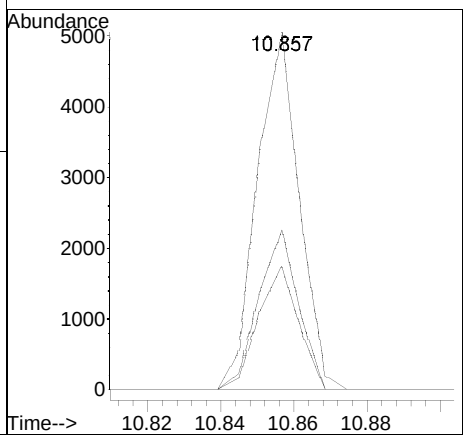


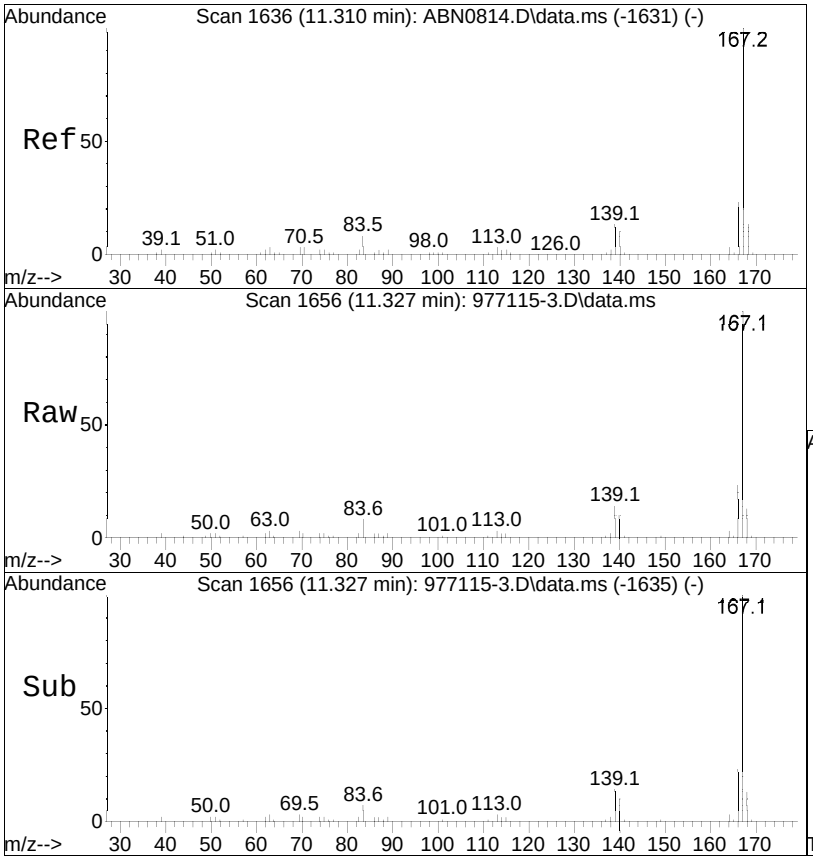


#87
Atrazine
Concen: 1.69 ug/ml
RT: 10.857 min Scan# 1576
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:200 Resp: 3996

Ion	Ratio	Lower	Upper
200	100		
202	33.3	25.8	38.6
215	42.5	40.2	60.4

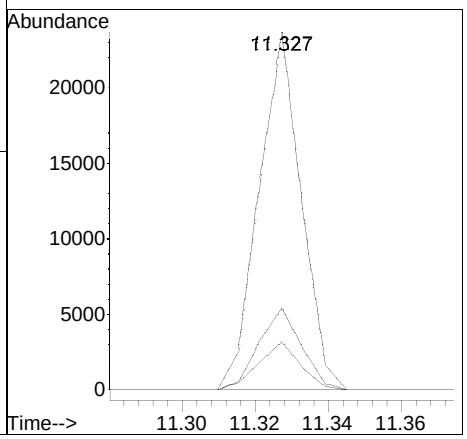


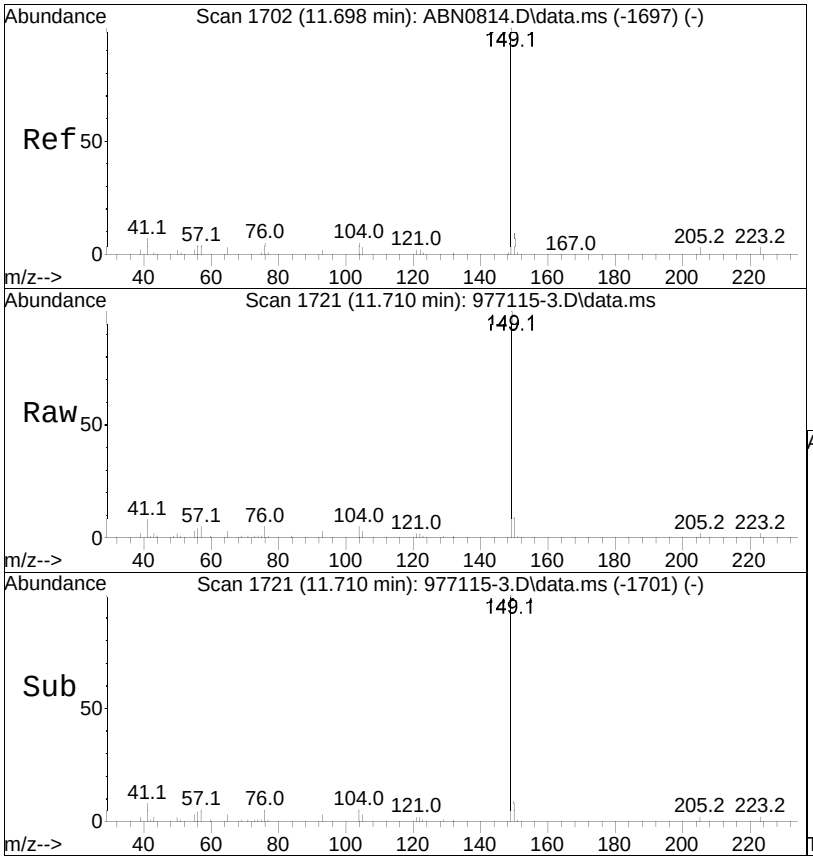


#91
Carbazole
Concen: 1.22 ug/ml
RT: 11.327 min Scan# 1656
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:167 Resp: 18791

Ion	Ratio	Lower	Upper
167	100		
168	13.5	10.6	15.8
166	23.1	17.4	26.0

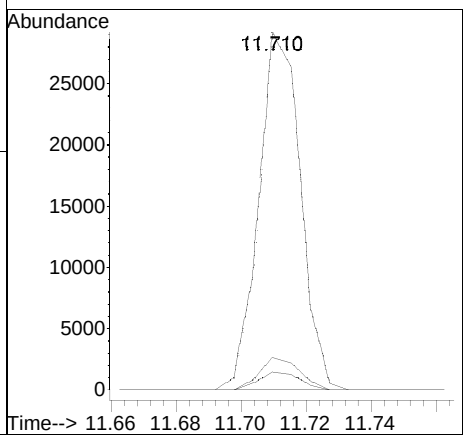


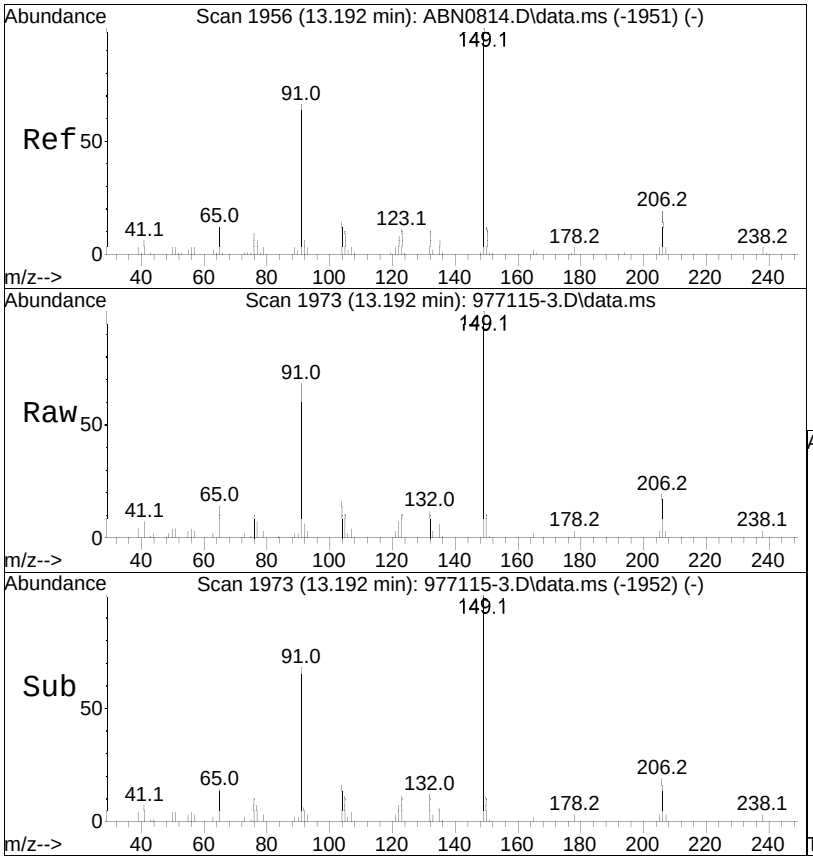


#92
Di-n-butylphthalate
Concen: 1.52 ug/ml
RT: 11.710 min Scan# 1721
Delta R.T. -0.006 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:149 Resp: 25756

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.0	10.6
104	5.0	4.5	6.7

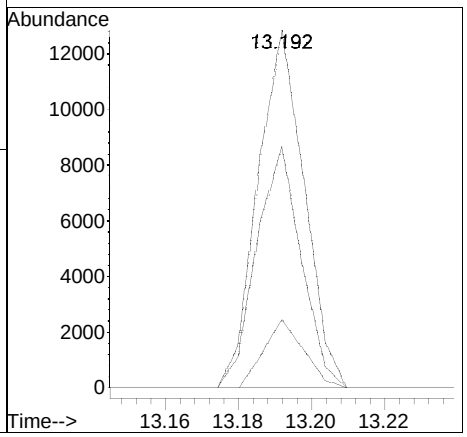


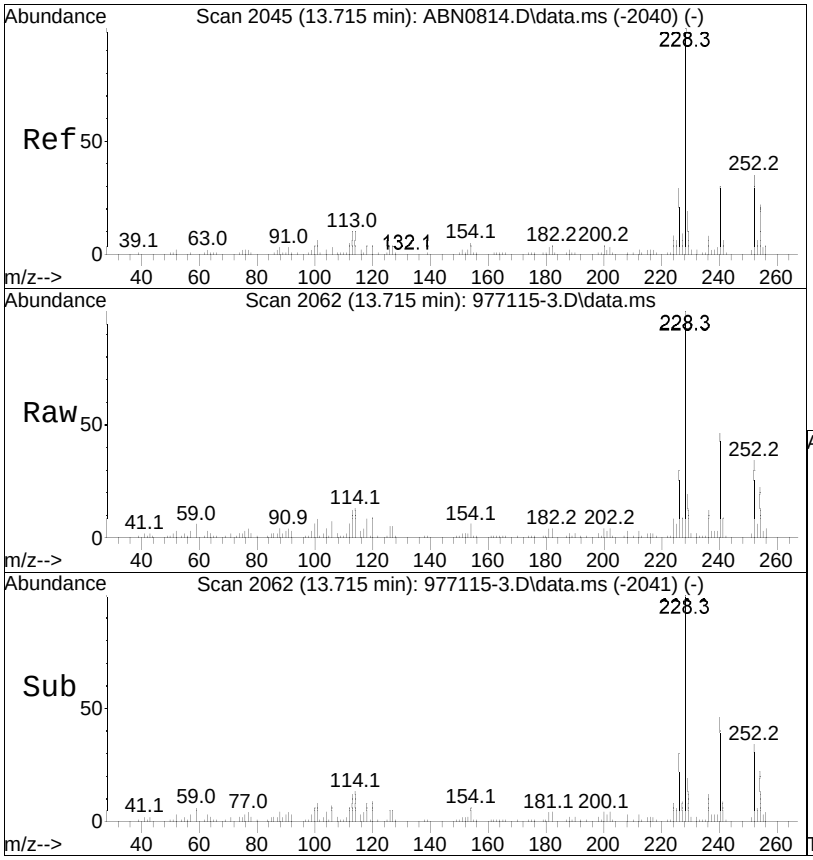


#97
Butyl benzyl phthalate
Concen: 1.63 ug/ml
RT: 13.192 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:149 Resp: 11228

Ion	Ratio	Lower	Upper
149	100		
91	65.1	63.3	94.9
206	16.5	13.9	20.9

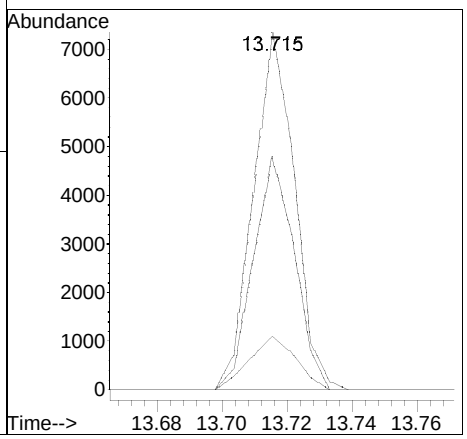


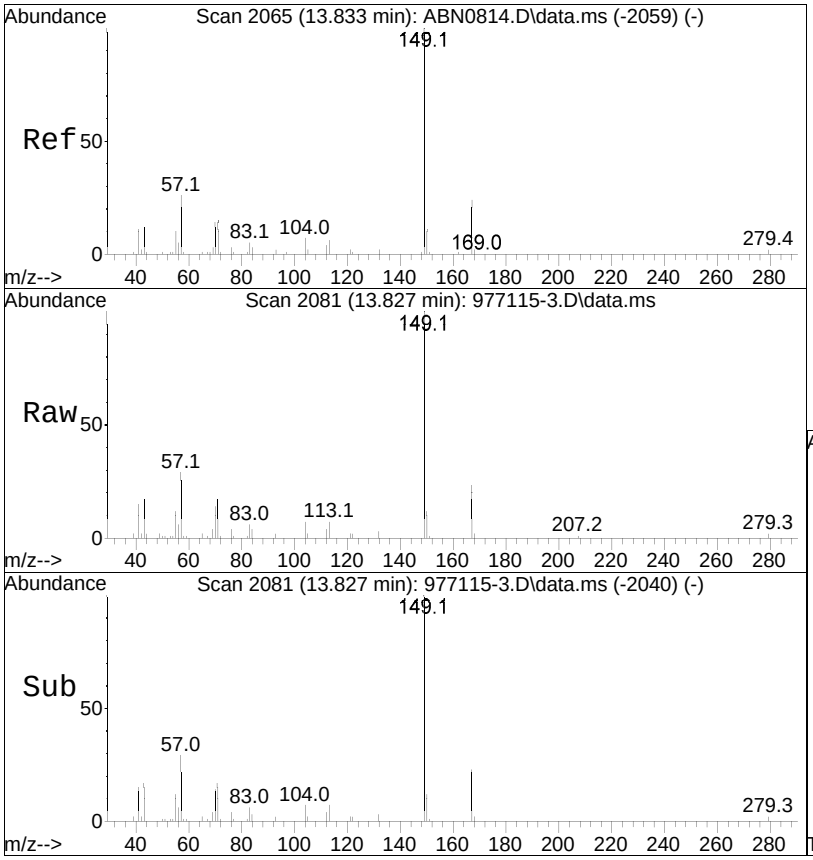


#106
3,3'-Dichlorobenzidine
Concen: 1.06 ug/ml
RT: 13.715 min Scan# 2062
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:252 Resp: 6425

Ion	Ratio	Lower	Upper
252	100		
126	17.0	14.5	21.7
254	65.2	51.2	76.8

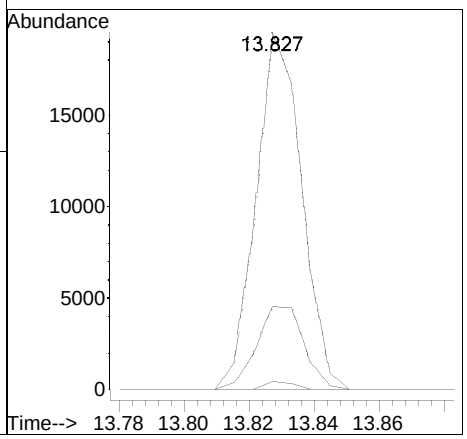


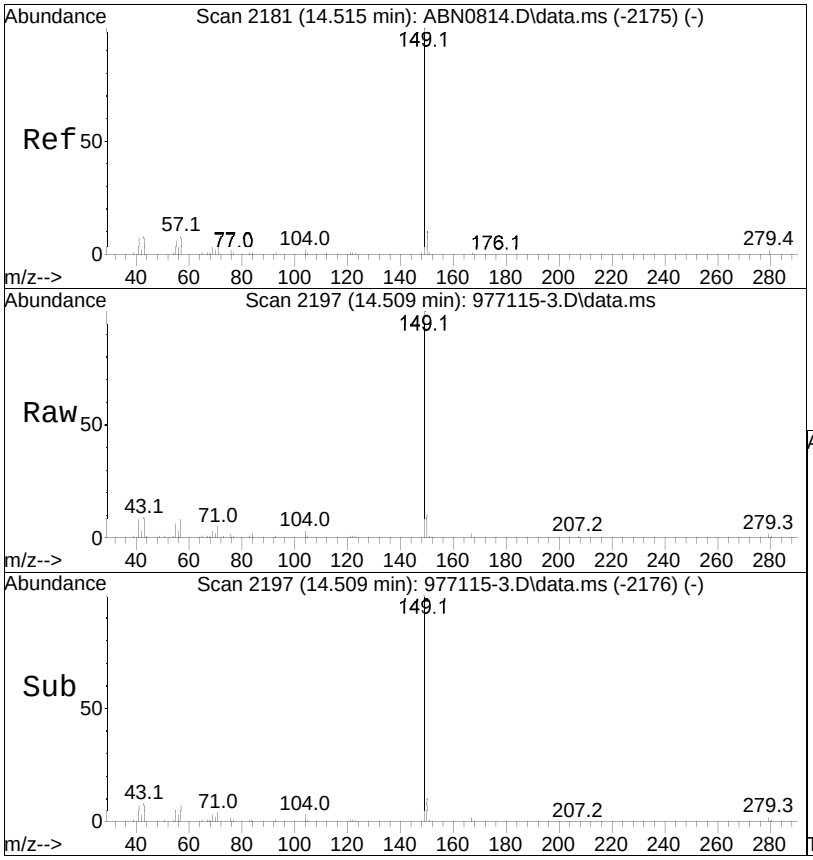


#108
Bis(2-ethylhexyl)phthalate
Concen: 1.90 ug/ml
RT: 13.827 min Scan# 2081
Delta R.T. -0.006 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:149 Resp: 18852

Ion	Ratio	Lower	Upper
149	100		
167	24.3	22.1	33.1
279	0.0	3.0	4.4#

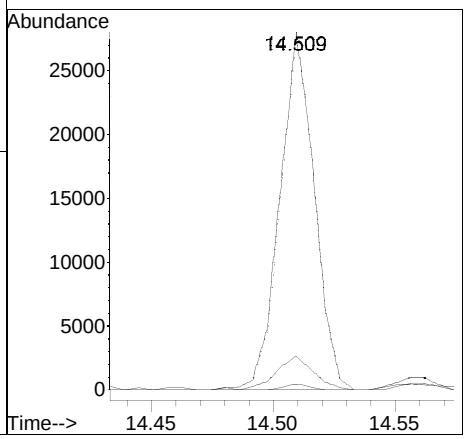




#109
Di-n-octylphthalate
Concen: 1.79 ug/ml
RT: 14.509 min Scan# 2197
Delta R.T. -0.000 min
Lab File: 977115-3.D
Acq: 28 Sep 2024 1:36 am

Tgt Ion:149 Resp: 27097

Ion	Ratio	Lower	Upper
149	100		
43	10.5	18.8	28.2#
167	0.0	1.3	1.9#



Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 30 2024, 01:28 pm

Work Group: WG1977115 for Department: 2 Organic Preparation

Created: 27-SEP-24 Due: Operator: ZCH

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2454075-02	SMP-MW-08	C	NYTCL-8270-RVT	WATER	DONE	U	0926	0926	S0	Amber-A.1
L2454075-04	SMP-TW-02	C	NYTCL-8270-RVT	WATER	DONE	U	0926	0926	S0	Amber-A.1
L2454075-05	DUP20240919	C	NYTCL-8270-RVT	WATER	DONE	U	0926	0926	S0	Amber-A.1
L2454309-01	BUFFALO RO-TYPE 1	C	NYTCL-8270-RVT	WATER	DONE	U	0927	1004	NC	Amber-A.1
L2454352-01	SCDOH-DR	C	NYTCL-8270-RVT	WATER	DONE	U	0927	0927	S0	Amber-A.1
L2454431-01	SMP-MW-101	C	NYTCL-8270-RVT	WATER	DONE	U	0927	0927	S0	Amber-A.1
L2454431-03	SMP-MW-07	C	NYTCL-8270-RVT	WATER	DONE	U	0927	0927	S0	Amber-A.1
L2455855-01	PWS-PE-RAW-IMMEDPOST-240927	C	NYTCL-8270-RVT	WATER	DONE	U	1004	0928	1A	Amber-A.1
L2455855-02	PWS-PE-RAW-12HRPRE-240926	C	NYTCL-8270-RVT	WATER	DONE	U	1003	0928	1A	Amber-A.1
WG1977115-1	Laboratory Method Bl	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1977115-2	Laboratory Control S	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1977115-3	LCS Duplicate	S	NYTCL-8270-RVT	WATER	DONE	U				

Comments:

WG1977115-3 WG1977115-2

Analysis log File

Total Files Reported in Log : 33
Log Generated From Directory: I:\8270\SV107\240602ical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	8270RVT.M	Tune lot #10767	WG1929644,,ical	6/2/2024 7:09 pm
2	ABNL9.D	8270RVT.M	IL2,32,,ABNL50 Lot# 106	WG1929644,,ical	6/2/2024 7:34 pm
3	ABNL8.D	8270RVT.M	IL3,32,,ABNL25 Lot# 106	WG1929644,,ical	6/2/2024 7:59 pm
4	ABNL7.D	8270RVT.M	IL4,32,,ABNL10 Lot# 106	WG1929644,,ical	6/2/2024 8:24 pm
5	ABNL6.D	8270RVT.M	IL5,32,,ABNL5 Lot# 1069	WG1929644,,ical	6/2/2024 8:50 pm
6	ABNL5.D	8270RVT.M	IL6,32,,ABNL2.5 Lot# 10	WG1929644,,ical	6/2/2024 9:15 pm
7	ABNL4.D	8270RVT.M	IL7,32,,ABNL1 Lot# 1069	WG1929644,,ical	6/2/2024 9:40 pm
8	ABNL3.D	8270RVT.M	IL8,32,,ABNL0.5 Lot# 10	WG1929644,,ical	6/2/2024 10:05 pm
9	ABNL2.D	8270RVT.M	IL9,32,,ABNL0.2 Lot# 10	WG1929644,,ical	6/2/2024 10:30 pm
10	ABNL1.D	8270RVT.M	IL10,32,,ABNL0.1 Lot# 1	WG1929644,,ical	6/2/2024 10:56 pm
11	AP9L9.D	8270RVT.M	IL2,32,,AP9L50 Lot# 107	WG1929644,,ical	6/2/2024 11:21 pm
12	AP9L8.D	8270RVT.M	IL3,32,,AP9L25 Lot# 107	WG1929644,,ical	6/2/2024 11:47 pm
13	AP9L7.D	8270RVT.M	IL4,32,,AP9L10 Lot# 107	WG1929644,,ical	6/3/2024 12:12 am
14	AP9L6.D	8270RVT.M	IL5,32,,AP9L5 Lot# 1070	WG1929644,,ical	6/3/2024 12:37 am
15	AP9L5.D	8270RVT.M	IL6,32,,AP9L2.5 Lot# 10	WG1929644,,ical	6/3/2024 1:08 am
16	AP9L4.D	8270RVT.M	IL7,32,,AP9L1 Lot# 1070	WG1929644,,ical	6/3/2024 1:33 am
17	AP9L3.D	8270RVT.M	IL8,32,,AP9L0.5 Lot# 10	WG1929644,,ical	6/3/2024 1:58 am
18	AP9L2.D	8270RVT.M	IL9,32,,AP9L0.2 Lot# 10	WG1929644,,ical	6/3/2024 2:23 am
19	AP9L1.D	8270RVT.M	IL10,32,,AP9L0.1 Lot# 1	WG1929644,,ical	6/3/2024 2:49 am
20	ABNICV.D	8270RVT.M	CQICV1,32,,ABNICV Lot#	WG1929644,,ical	6/3/2024 3:14 am
21	AP9ICV.D	8270RVT.M	CQICV2,32,,AP9ICV Lot#	WG1929644,,ical	6/3/2024 3:39 am
22	Tune2.D	8270RVT.M	Tune lot #10767	WG1929644,,ical	6/3/2024 4:04 am
23	ADPL9.D	8270RVT.M	IL2,32,,ADPL50 Lot# 107	WG1929644,,ical	6/3/2024 4:29 am
24	ADPL8.D	8270RVT.M	IL3,32,,ADPL25 Lot# 107	WG1929644,,ical	6/3/2024 4:54 am
25	ADPL7.D	8270RVT.M	IL4,32,,ADPL10 Lot# 107	WG1929644,,ical	6/3/2024 5:19 am
26	ADPL6.D	8270RVT.M	IL5,32,,ADPL5 Lot# 1071	WG1929644,,ical	6/3/2024 5:45 am
27	ADPL5.D	8270RVT.M	IL6,32,,ADPL2.5 Lot# 10	WG1929644,,ical	6/3/2024 6:10 am
28	ADPL4.D	8270RVT.M	IL7,32,,ADPL1 Lot# 1071	WG1929644,,ical	6/3/2024 6:35 am
29	ADPL3.D	8270RVT.M	IL8,32,,ADPL0.5 Lot# 10	WG1929644,,ical	6/3/2024 7:00 am
30	ADPL2.D	8270RVT.M	IL9,32,,ADPL0.2 Lot# 10	WG1929644,,ical	6/3/2024 7:25 am
31	ADPL1.D	8270RVT.M	IL10,32,,ADPL0.1 Lot# 1	WG1929644,,ical	6/3/2024 7:50 am
32	ADPICV.D	8270RVT.M	CQICV3,32,,ADPICV Lot#	WG1929644,,ical	6/3/2024 8:15 am
33	InstBlnk.D	8270RVT.M	Instrument Blank	wg,,ical	6/3/2024 8:40 am

Dep.: GCMS
Inst: SV107
Date: **09/27/24**
Run: Night Run

Method
GC: 8270RVT

Seq: **WG1977425**

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
141	DEG0927n	wg-1,32,,Degdftpp Lot # 11038				09/28 gmr
142	ABN0927n	wg-3,32,,ABN RVT CCV Lot # 10	**Passes Full List**			09/28 gmr
143	AP90927n	wg-4,32,,AP9 RVT CCV Lot #10909				09/28 gmr
144	ADP0927n	wg-5,32,,ADP RVT CCV Lot #10751				09/28 gmr
1	977115-1	WG1977115/144-1,32,,ASK				9/28jg
2	977115-2	WG1977115/144-2,32,,ASK				9/28jg
3	977115-3	WG1977115/144-3,32,,ASK				9/28jg
4	976782-1	WG1976782-1,32,,ASK				09/28 gmr
5	976782-2	WG1976782-2,32,,ASK				09/28 gmr
6	976782-3	WG1976782-3,32,,ASK				09/28 gmr
7	54352-01	L2454352-01,32,,ASK				9/28jg
8	54431-01	L2454431-01,32,,ASK		cmm		9/28jg
9	54431-02	L2454431-02,32,,ASK	RX, surr <10			cmm 9/28
10	54431-03	L2454431-03,32,,ASK				9/28jg
11	54075-02	L2454075-02,32,,RE,ASK	rv, orig needed	jg		
12	54075-04	L2454075-04,32,,RE,ASK	rv, orig needed	jg		
13	54075-05	L2454075-05,32,,RE,ASK	rv, orig needed	jg		
14	55850-01	L2455850-01,32,,R1A,ASK	RX, surr<10			cmm 9/28
15	55855-01	L2455855-01,32,,R1A,ASK				cmm 9/28
16	55855-02	L2455855-02,32,,R1A,ASK				cmm 9/28
17	54059-01	L2454059-01,32,,ASK		cmm		9/28jg
18	54059-02	L2454059-02,32,,ASK				9/28jg
19	54075-03	L2454075-03,32,,ASK	rx, <10%	jg		
20	54402-01	L2454402-01,32,,ASK				9/28jg
21	54402-02	L2454402-02,32,,ASK				9/28jg
22	54402-03	L2454402-03,32,,ASK				9/28jg
23	54402-05	L2454402-05,32,,ASK				9/28jg
24	54278-01	L2454278-01,32,,ASK	rx, <10%	jg		
25	54289-12	L2454289-12,32,,ASK			**ASK**	9/28jg
					sv-gmr	

ORGANIC ELN REPORT

Workgroup: WG1977115

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ089
Surrogate Type: ABN **Lot #:** 11001ay,03/11/2025,4r,6,1
Spike Type: ABN **Lot #:** 10948af,02/03/2025, 10949ai,0
Spike Verify by: ZCH / LJO/JJM
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A091124
Na2SO4	23K2961078
NaOH	10NNaOH082824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: ej089

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2454075-02 SAMP	09/27/24 17:24	Luke O'Donnell	100	<2,>12	.1		09/27/24 19:35	Victor Kono	1	K
L2454075-04 SAMP	09/27/24 17:24	Luke O'Donnell	100	<2,>12	.1		09/27/24 19:35	Victor Kono	1	K
L2454075-05 SAMP	09/27/24 17:24	Luke O'Donnell	100	<2,>12	.1		09/27/24 19:35	Victor Kono	1	K
L2454309-01 SAMP	09/27/24 08:46	Zachary Helin	100	<2, >12	.1		09/27/24 16:14	Victor Kono	1	K
L2454352-01 SAMP	09/27/24 08:46	Zachary Helin	100	<2, >12	.1		09/27/24 16:14	Victor Kono	1	K
L2454431-01 SAMP	09/27/24 08:46	Zachary Helin	100	<2, >12	.1		09/27/24 16:14	Victor Kono	1	K

Reported: 30-SEP-24 01:28 PM

ORGANIC ELN REPORT

Workgroup: WG1977115

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2454431-02 SAMP	09/27/24 08:46	Zachary Helin	100	<2, >12	.1		09/27/24 16:14	Victor Kono	1	K
L2454431-03 SAMP	09/27/24 08:46	Zachary Helin	100	<2, >12	.1		09/27/24 16:15	Victor Kono	1	K
L2455850-01 SAMP	09/27/24 17:24	Luke O'Donnell	100	<2,>12	.1		09/27/24 19:35	Victor Kono	1	K
L2455855-01 SAMP	09/27/24 17:24	Luke O'Donnell	100	<2,>12	.1		09/27/24 19:35	Victor Kono	1	K
L2455855-02 SAMP	09/27/24 17:24	Luke O'Donnell	100	<2,>12	.1		09/27/24 19:35	Victor Kono	1	K
WG1977115-1 BLANK	09/27/24 08:46 **WG1977144, WG1977113**	Zachary Helin	100	<2, >12	.1		09/27/24 16:14	Victor Kono	1	K
WG1977115-2 LCS	09/27/24 08:46	Zachary Helin	100	<2, >12	.1	.1	09/27/24 16:14	Victor Kono	1	K
WG1977115-3 LCSD	09/27/24 08:46	Zachary Helin	100	<2, >12	.1	.1	09/27/24 16:14	Victor Kono	1	K

Semivolatiles Data
by Method 8270D-SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

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

Lab Number: L2454352
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
SCDOH-DR (L2454352-01)	31	33	64	52	44	69	0
WG1977113-1BLANK	29	32	79	66	45	88	0
WG1977113-2LCS	51	42	69	59	81	72	0
WG1977113-3LCSD	52	43	70	60	81	72	0

QC LIMITS

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

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1977113-2 **Analysis Date** : 09/28/24 14:57	**File ID**	: 977113-2
LCSD Sample ID	: WG1977113-3 **Analysis Date** : 09/28/24 15:14	**File ID**	: 977113-3

	Laboratory Control Sample				Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R		True (ug/l)	Found (ug/l)	%R		RPD	Recovery Limits	RPD Limit
Acenaphthene	20	12	63		20	13	64		2	40-140	40
2-Chloronaphthalene	20	12	58		20	12	59		2	40-140	40
Fluoranthene	20	15	77		20	15	76		1	40-140	40
Hexachlorobutadiene	20	7.2	36	Q	20	7.7	39	Q	8	40-140	40
Naphthalene	20	10	53		20	11	54		2	40-140	40
Benzo(a)anthracene	20	16	81		20	16	81		0	40-140	40
Benzo(a)pyrene	20	17	86		20	17	84		2	40-140	40
Benzo(b)fluoranthene	20	17	87		20	17	86		1	40-140	40
Benzo(k)fluoranthene	20	17	84		20	16	82		2	40-140	40
Chrysene	20	16	81		20	16	78		4	40-140	40
Acenaphthylene	20	13	67		20	14	68		1	40-140	40
Anthracene	20	15	74		20	15	74		0	40-140	40
Benzo(ghi)perylene	20	16	82		20	16	80		2	40-140	40
Fluorene	20	14	70		20	14	70		0	40-140	40
Phenanthrene	20	14	73		20	14	72		1	40-140	40
Dibenzo(a,h)anthracene	20	17	86		20	17	86		0	40-140	40
Indeno(1,2,3-cd)pyrene	20	18	89		20	18	90		1	40-140	40
Pyrene	20	15	75		20	15	74		1	40-140	40
2-Methylnaphthalene	20	11	57		20	12	59		3	40-140	40
Pentachlorophenol	20	18	89		20	17	87		2	40-140	40
Hexachlorobenzene	20	14	72		20	14	71		1	40-140	40
Hexachloroethane	20	7.4	37	Q	20	7.9	39	Q	5	40-140	40
Bis(2-chloroethyl)ether	20	12	63		20	13	64		2	40-140	40

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1977113-1	**Lab File ID**	: 977113-1
Instrument ID	: SV120	**Extraction Date**	: 09/27/24
Matrix	: WATER	**Analysis Date**	: 09/28/24 15:30
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1977113-2LCS	WG1977113-2	09/28/24 14:57
WG1977113-3LCSD	WG1977113-3	09/28/24 15:14
SCDOH-DR	L2454352-01	09/28/24 20:09

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 09/25/24 00:30
Tune Standard	: R1880281-12	**Tune File ID**	: TUNE_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	48.9
68	Less than 2.0% of mass 69	0.8 (1.9)1
69		100
70	Less than 2.0% of mass 69	0.3 (.9)1
127	10.0 - 80.0% of Base Peak	50.9
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6
275	10.0 - 60.0% of Base Peak	24.5
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	17.2
442	Base Peak, or >50% of mass 198	77.8
443	15.0 - 24.0% of mass 442	15.5 (20)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL10	R1880281-2	IL10	09/25/24 00:46
IL9	R1880281-10	IL9	09/25/24 01:03
IL8	R1880281-9	IL8	09/25/24 01:19
IL7	R1880281-7	IL7	09/25/24 01:35
IL6	R1880281-8	IL6	09/25/24 01:52
IL5	R1880281-6	IL5	09/25/24 02:11
IL4	R1880281-5	IL4	09/25/24 02:29
IL3	R1880281-4	IL3	09/25/24 02:45
IL2	R1880281-3	IL2	09/25/24 03:02
IL1	R1880281-1	IL1	09/25/24 03:18
ICV Quant Report	R1880281-11	ICV	09/25/24 03:35

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 09/28/24 12:34
Tune Standard	: WG1977599-1	**Tune File ID**	: deg0928_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	46.2
68	Less than 2.0% of mass 69	0.7 (1.8)1
69		100
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	51.8
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 60.0% of Base Peak	25.1
365	Greater than 1.0% of mass 198	3.1
441	Present, but less than 24% of mass 442	17.7
442	Base Peak, or >50% of mass 198	75.6
443	15.0 - 24.0% of mass 442	14.4 (19.1)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1977599-4TFACTOR-B	WG1977599-4	DEG0928	09/28/24 12:34
WG1977599-5TFACTOR-P	WG1977599-5	DEG0928	09/28/24 12:34
WG1977599-3CCAL	WG1977599-3	CCV0928	09/28/24 12:51
WG1977113-2LCS	WG1977113-2	977113-2	09/28/24 14:57
WG1977113-3LCSD	WG1977113-3	977113-3	09/28/24 15:14
WG1977113-1BLANK	WG1977113-1	977113-1	09/28/24 15:30
SCDOH-DR	L2454352-01	54352-01	09/28/24 20:09

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 09/28/24 12:51:00
Sample No	: WG1977599-3	**Lab File ID**	: CCV0928

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1977599-3	372654	2.10	1416081	2.75	810801	3.72
Upper Limit	745308	2.60	2832162	3.25	1621602	4.22
Lower Limit	186327	1.60	708041	2.25	405401	3.22
Sample ID						
WG1977113-2 LCS	323339	2.10	1234145	2.75	695958	3.72
WG1977113-3 LCSD	307699	2.10	1169052	2.75	661213	3.72
WG1977113-1 BLANK	316792	2.10	1182159	2.75	668766	3.72
SCDOH-DR	300076	2.09	1140908	2.75	640701	3.72

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 09/28/24 12:51:00
Sample No	: WG1977599-3	**Lab File ID**	: CCV0928

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1977599-3	1583869	4.56	1368829	6.09	1317176	7.19
Upper Limit	3167738	5.06	2737658	6.59	2634352	7.69
Lower Limit	791935	4.06	684415	5.59	658588	6.69
Sample ID						
WG1977113-2 LCS	1356424	4.56	1161701	6.09	1097398	7.18
WG1977113-3 LCSD	1306165	4.56	1127584	6.09	1071515	7.18
WG1977113-1 BLANK	1303750	4.56	1180844	6.09	1086848	7.18
SCDOH-DR	1272460	4.56	1150887	6.08	1043886	7.17

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

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

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

EPA 8270E Low Level PAH (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	0.1	0.035	ug/l	40-140	40	40-140	40	40			
2-Chloronaphthalene	91-58-7	0.2	0.035	ug/l	40-140	40	40-140	40	40			
Fluoranthene	206-44-0	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Hexachlorobutadiene	87-68-3	0.5	0.036	ug/l	40-140	40	40-140	40	40			
Naphthalene	91-20-3	0.1	0.043	ug/l	40-140	40	40-140	40	40			
Benzo(a)anthracene	56-55-3	0.1	0.018	ug/l	40-140	40	40-140	40	40			
Benzo(a)pyrene	50-32-8	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Benzo(b)fluoranthene	205-99-2	0.1	0.016	ug/l	40-140	40	40-140	40	40			
Benzo(k)fluoranthene	207-08-9	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Chrysene	218-01-9	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Acenaphthylene	208-96-8	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Anthracene	120-12-7	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Benzo(ghi)perylene	191-24-2	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Fluorene	86-73-7	0.1	0.037	ug/l	40-140	40	40-140	40	40			
Phenanthrene	85-01-8	0.1	0.015	ug/l	40-140	40	40-140	40	40			
Dibenzo(a,h)anthracene	53-70-3	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.1	0.04	ug/l	40-140	40	40-140	40	40			
Pyrene	129-00-0	0.1	0.04	ug/l	40-140	40	40-140	40	40			
1-Methylnaphthalene	90-12-0	0.1	0.041	ug/l	40-140	40	40-140	40	40			
2-Methylnaphthalene	91-57-6	0.1	0.045	ug/l	40-140	40	40-140	40	40			
Pentachlorophenol	87-86-5	0.8	0.22	ug/l	40-140	40	40-140	40	40			
Hexachlorobenzene	118-74-1	0.8	0.032	ug/l	40-140	40	40-140	40	40			
Hexachloroethane	67-72-1	0.8	0.03	ug/l	40-140	40	40-140	40	40			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

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

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

EPA 8270E Low Level PAH (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	6.68	1.4028	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	6.68	0.8684	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	6.68	0.4676	ug/kg	40-140	50	40-140	50	50			
Hexachlorobutadiene	87-68-3	6.68	0.9352	ug/kg	34-107	50	40-140	50	50			
Naphthalene	91-20-3	6.68	1.2024	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	6.68	0.6012	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	6.68	0.501	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	6.68	0.835	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	6.68	0.5344	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Dibenzo(a,h)anthracene	53-70-3	6.68	0.668	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	6.68	0.4676	ug/kg	35-142	50	35-142	50	50			
1-Methylnaphthalene	90-12-0	6.68	1.0354	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	6.68	1.9038	ug/kg	40-140	50	40-140	50	50			
Pentachlorophenol	87-86-5	26.72	2.9392	ug/kg	17-109	50	17-109	50	50			
Hexachlorobenzene	118-74-1	6.68	0.7014	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	6.68	1.2358	ug/kg	29-106	50	40-140	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

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

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/28/24 20:09
Sample Matrix	: WATER	**Date Extracted**	: 09/27/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 54352-01	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/28/24 20:09
Sample Matrix	: WATER	**Date Extracted**	: 09/27/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 54352-01	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1977113-1	**Date Collected**	: NA
Client ID	: WG1977113-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/28/24 15:30
Sample Matrix	: WATER	**Date Extracted**	: 09/27/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 977113-1	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	0.15	0.80	0.06	J
118-74-1	Hexachlorobenzene	0.02	0.80	0.01	J
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1977113-1	**Date Collected**	: NA
Client ID	: WG1977113-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/28/24 15:30
Sample Matrix	: WATER	**Date Extracted**	: 09/27/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 977113-1	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : 54352-01.D
Acq On : 28 Sep 2024 08:09 pm
Operator : SV120:jjw
Sample : L2454352-01,32,,rp
Misc : WG1977599,WG1977113,ical21522
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 30 11:44:36 2024
Quant Method : I:\8270sim\sv120\240928RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 13:11:11 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240928RVT\ccv0928.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.093	152	300076	4000.000	ng/ml	0.00
Standard Area 1 = 372654			Recovery = 80.52%			
8) Naphthalene-d8	2.749	136	1140908	4000.000	ng/ml	0.00
Standard Area 1 = 1416081			Recovery = 80.57%			
17) Acenaphthene-d10	3.721	164	640701	4000.000	ng/ml	0.00
Standard Area 1 = 810801			Recovery = 79.02%			
22) Phenanthrene-d10	4.556	188	1272460	4000.000	ng/ml	0.00
Standard Area 1 = 1583869			Recovery = 80.34%			
31) Chrysene-d12	6.082	240	1150887	4000.000	ng/ml	-0.01
Standard Area 1 = 1368829			Recovery = 84.08%			
36) Perylene-d12	7.174	264	1043886	4000.000	ng/ml	-0.02
Standard Area 1 = 1317176			Recovery = 79.25%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.534	112	50713	611.241	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 30.56%			
3) Phenol-d6	1.921	99	63741	654.507	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 32.73%			
7) Nitrobenzene-d5	2.375	82	52343	635.834	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 63.58%			
13) 2-Fluorobiphenyl	3.346	172	113051	521.921	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 52.19%			
21) 2,4,6-Tribromophenol	4.165	330	24997	872.255	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 43.61%			
30) 4-Terphenyl-d14	5.471	244	154551	693.512	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 34.68%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D. d		
10) Hexachlorobutadiene	0.000		0	N.D. d		
11) 2-Methylnaphthalene	0.000		0	N.D. d		
14) 2-Chloronaphthalene	0.000		0	N.D. d		
16) Acenaphthylene	0.000		0	N.D. d		
18) Acenaphthene	0.000		0	N.D. d		
20) Fluorene	0.000		0	N.D. d		
24) Hexachlorobenzene	0.000		0	N.D. d		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : 54352-01.D
Acq On : 28 Sep 2024 08:09 pm
Operator : SV120:jjw
Sample : L2454352-01,32,,rp
Misc : WG1977599,WG1977113,ical21522
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 30 11:44:36 2024
Quant Method : I:\8270sim\sv120\240928RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 13:11:11 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240928RVT\ccv0928.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

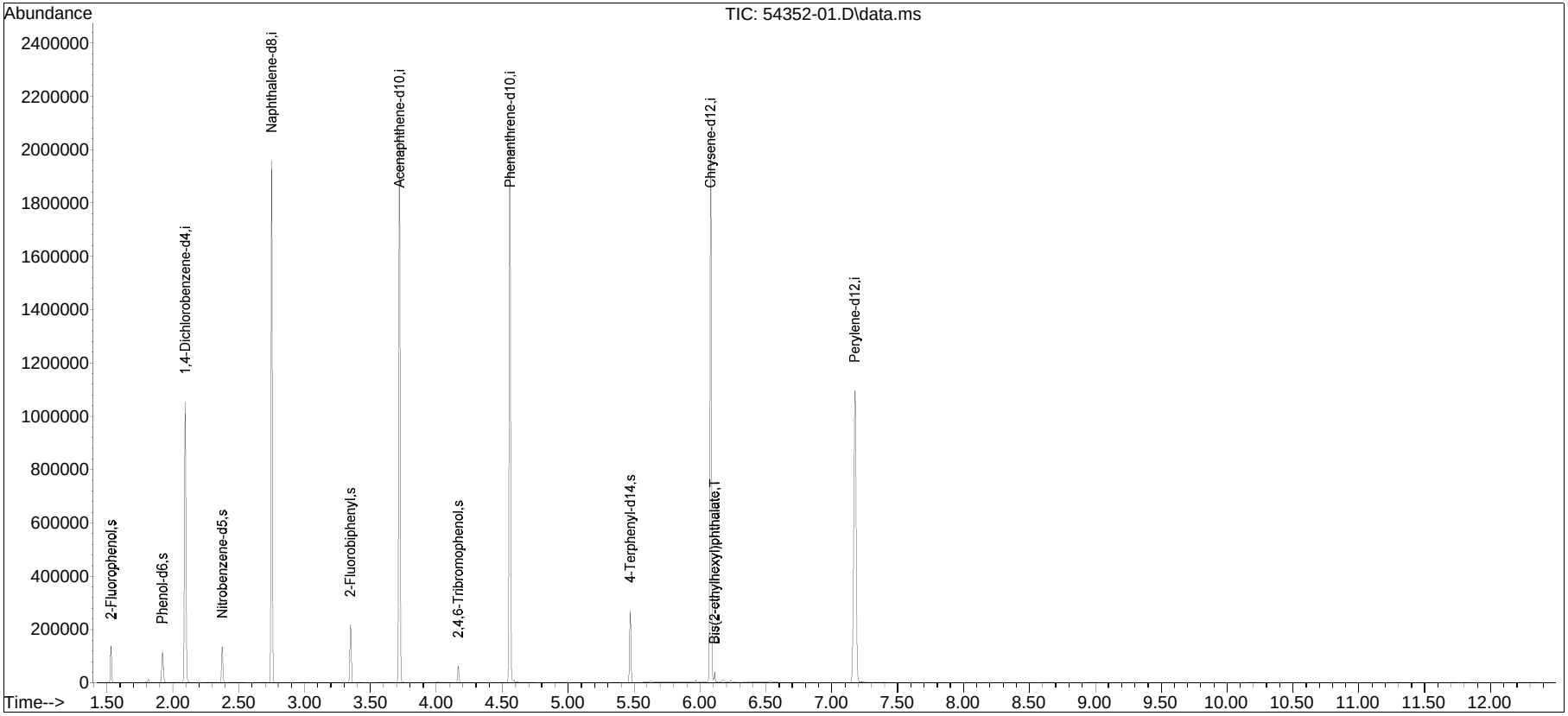
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : 54352-01.D
Acq On : 28 Sep 2024 08:09 pm
Operator : SV120:jjw
Sample : L2454352-01,32,,rp
Misc : WG1977599,WG1977113,ical21522
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 30 11:44:36 2024
Quant Method : I:\8270sim\sv120\240928RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 13:11:11 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0928.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv120\240928RVTQ	Method	: SIM-RVT_240925_sv120.M
Data File	: 54352-01.D	Operator	: SV120:jjw
Date Inj'd	: 9/28/2024 8:09 pm	Instrument	: SV120
Sample	: L2454352-01,32,,rp	Quant Date	: 9/28/2024 8:22 pm

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

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV120**	**Ical Ref**	**: ICAL21522**
Calibration dates	**: 09/25/24 00:46 09/25/24 03:18**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol	1.060	1.092	1.101	1.086	1.088	1.233	1.165	1.104	1.099	1.032	1.106	5.05
3)	s	Phenol-d6	1.150	1.308	1.250	1.243	1.262	1.434	1.346	1.322	1.355	1.312	1.298	5.93
4)	T	bis(2-Chloroethyl)ether			1.144	1.059	1.107	1.429	1.145	1.097	1.103	1.020	1.138	10.94
5)	T	n-Nitrosodi-n-propylamine			0.723	0.729	0.739	0.803	0.777	0.771	0.812	0.805	0.770	4.67
6)	t	Hexachloroethane			0.507	0.498	0.470	0.532	0.495	0.477	0.481	0.457	0.490	4.83
7)	s	Nitrobenzene-d5		0.999	1.012	1.010	1.059	1.202	1.154	1.138	1.166	1.136	1.097	7.06
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene	1.089	1.039	1.031	1.003	0.960	1.065	0.989	0.942	0.948	0.904	0.997	5.94
10)	t	Hexachlorobutadiene		0.194	0.201	0.192	0.190	0.209	0.194	0.184	0.182	0.171	0.191	5.74
11)	t	2-Methylnaphthalene	0.608	0.630	0.602	0.613	0.617	0.692	0.655	0.626	0.628	0.600	0.627	4.46
12)	t	1-Methylnaphthalene	0.636	0.628	0.609	0.598	0.602	0.653	0.605	0.579	0.585	0.556	0.605	4.71
13)	s	2-Fluorobiphenyl	0.708	0.819	0.759	0.769	0.766	0.845	0.775	0.735	0.729	0.688	0.759	6.28
14)	t	2-Chloronaphthalene	0.625	0.667	0.646	0.635	0.647	0.714	0.668	0.646	0.655	0.633	0.654	3.87
15)	t	2,6-Dinitrotoluene					0.124	0.137	0.144	0.151	0.169	0.166	*L	0.9984
16)	t	Acenaphthylene	0.952	0.929	0.896	0.892	0.902	1.003	0.993	0.965	1.004	0.972	0.951	4.61
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene	1.162	1.242	1.227	1.186	1.183	1.309	1.210	1.162	1.165	1.107	1.195	4.62
19)	t	2,4-Dinitrotoluene					0.253	0.304	0.348	0.367	0.404	0.397	*L	0.9989
20)	t	Fluorene	1.308	1.321	1.292	1.287	1.269	1.424	1.358	1.308	1.352	1.283	1.320	3.51
21)	s	2,4,6-Tribromophenol		0.162	0.144	0.156	0.161	0.189	0.195	0.196	0.208	0.201	0.179	12.96
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol					0.060	0.078	0.097	0.104	0.121	0.120	*L	0.9972
24)	t	Hexachlorobenzene	0.247	0.244	0.227	0.228	0.224	0.256	0.232	0.223	0.218	0.200	0.230	6.97
25)	t	Pentachlorophenol				0.064	0.072	0.063	0.095	0.116	0.141		*Q	0.9985
26)	t	Phenanthrene	0.920	1.071	1.031	1.033	1.020	1.108	1.016	0.979	0.982	0.911	1.007	6.09
27)	t	Anthracene	1.065	1.030	0.957	0.918	0.940	1.061	1.006	0.981	0.999	0.924	0.988	5.43
28)	t	Fluoranthene	1.228	1.235	1.129	1.112	1.091	1.200	1.187	1.155	1.208	1.116	1.166	4.48
29)	t	Pyrene	1.384	1.285	1.194	1.176	1.139	1.240	1.266	1.219	1.266	1.163	1.233	5.83
30)	s	4-Terphenyl-d14		0.743	0.691	0.680	0.678	0.737	0.729	0.695	0.712	0.641	0.701	4.72
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene	1.335	0.718	0.368	0.234	0.138	0.134	0.124	0.119	0.124	0.117	*L	0.9992
33)	t	3,3'-Dichlorobenzene					0.333	0.402	0.437	0.444	0.486	0.464	0.428	12.65
34)	t	Chrysene	1.056	1.043	0.957	1.082	1.161	1.319	1.239	1.167	1.201	1.110	1.133	9.33
35)	T	bis(2-Ethylhexyl)phthalate					0.473	0.518	0.596	0.643	0.756	0.747	*L	0.9965
36)	i	Perylene-d12	ISTD											

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV120**	**Ical Ref**	**: ICAL21522**
Calibration dates	**: 09/25/24 00:46 09/25/24 03:18**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37)	t	Benzo[b]fluoranthene	1.053	1.021	1.031	1.028	1.019	1.193	1.243	1.160	1.186	1.110	1.104	7.69
38)	t	Benzo[k]fluoranthene	1.042	1.101	1.045	1.021	1.048	1.142	1.113	1.089	1.157	1.079	1.084	4.18
39)	t	Benzo[a]pyrene	0.863	0.883	0.852	0.859	0.861	1.010	1.043	1.006	1.071	1.007	0.946	9.37
40)	t	Indeno[1,2,3-cd]pyrene	0.688	0.830	0.810	0.813	0.883	1.049	1.083	1.003	1.086	1.052	0.930	15.26
41)	t	Dibenzo[a,h]anthracene	0.749	0.795	0.790	0.810	0.804	0.995	0.993	0.941	0.984	0.924	0.879	11.10
42)	t	Benzo[g,h,i]perylene	0.898	0.848	0.854	0.875	0.874	1.061	1.043	0.982	1.032	0.965	0.943	8.83

Response Factor Report SV120

Method Path : I:\8270SIM\sv120\240925RVTical\
Method File : SIM-RVT_240925_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Sep 25 11:34:07 2024
Response Via : Initial Calibration

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	s	2-Fluorophenol	1.060	1.092	1.101	1.086	1.088	1.233	1.165	1.104	1.099	1.032	1.106	5.05
3)	s	Phenol-d6	1.150	1.308	1.250	1.243	1.262	1.434	1.346	1.322	1.355	1.312	1.298	5.93
4)	T	bis(2-Chloroethyl)ether			1.144	1.059	1.107	1.429	1.145	1.097	1.103	1.020	1.138	10.94
5)	T	n-Nitrosodi-n-propylamine			0.723	0.729	0.739	0.803	0.777	0.771	0.812	0.805	0.770	4.67
6)	t	Hexachloroethane			0.507	0.498	0.470	0.532	0.495	0.477	0.481	0.457	0.490	4.83
7)	s	Nitrobenzene-d5		0.999	1.012	1.010	1.059	1.202	1.154	1.138	1.166	1.136	1.097	7.06
8)	i	Naphthalene-d8	----------ISTD----------											
9)	t	Naphthalene	1.089	1.039	1.031	1.003	0.960	1.065	0.989	0.942	0.948	0.904	0.997	5.94
10)	t	Hexachlorobutadiene		0.194	0.201	0.192	0.190	0.209	0.194	0.184	0.182	0.171	0.191	5.74
11)	t	2-Methylnaphthalene	0.608	0.630	0.602	0.613	0.617	0.692	0.655	0.626	0.628	0.600	0.627	4.46
12)	t	1-Methylnaphthalene	0.636	0.628	0.609	0.598	0.602	0.653	0.605	0.579	0.585	0.556	0.605	4.71
13)	s	2-Fluorobiphenyl	0.708	0.819	0.759	0.769	0.766	0.845	0.775	0.735	0.729	0.688	0.759	6.28
14)	t	2-Chloronaphthalene	0.625	0.667	0.646	0.635	0.647	0.714	0.668	0.646	0.655	0.633	0.654	3.87
15)	t	2,6-Dinitrotoluene					0.124	0.137	0.144	0.151	0.169	0.166	*L	0.9984
16)	t	Acenaphthylene	0.952	0.929	0.896	0.892	0.902	1.003	0.993	0.965	1.004	0.972	0.951	4.61
17)	i	Acenaphthene-d10	----------ISTD----------											
18)	t	Acenaphthene	1.162	1.242	1.227	1.186	1.183	1.309	1.210	1.162	1.165	1.107	1.195	4.62
19)	t	2,4-Dinitrotoluene					0.253	0.304	0.348	0.367	0.404	0.397	*L	0.9989
20)	t	Fluorene	1.308	1.321	1.292	1.287	1.269	1.424	1.358	1.308	1.352	1.283	1.320	3.51
21)	s	2,4,6-Tribromophenol		0.162	0.144	0.156	0.161	0.189	0.195	0.196	0.208	0.201	0.179	12.96
22)	i	Phenanthrene-d10	----------ISTD----------											
23)	T	4,6-Dinitro-o-cresol					0.060	0.078	0.097	0.104	0.121	0.120	*L	0.9972
24)	t	Hexachlorobenzene	0.247	0.244	0.227	0.228	0.224	0.256	0.232	0.223	0.218	0.200	0.230	6.97
25)	t	Pentachlorophenol				0.064	0.072	0.063	0.095	0.116	0.141		*Q	0.9985
26)	t	Phenanthrene	0.920	1.071	1.031	1.033	1.020	1.108	1.016	0.979	0.982	0.911	1.007	6.09
27)	t	Anthracene	1.065	1.030	0.957	0.918	0.940	1.061	1.006	0.981	0.999	0.924	0.988	5.43
28)	t	Fluoranthene	1.228	1.235	1.129	1.112	1.091	1.200	1.187	1.155	1.208	1.116	1.166	4.48
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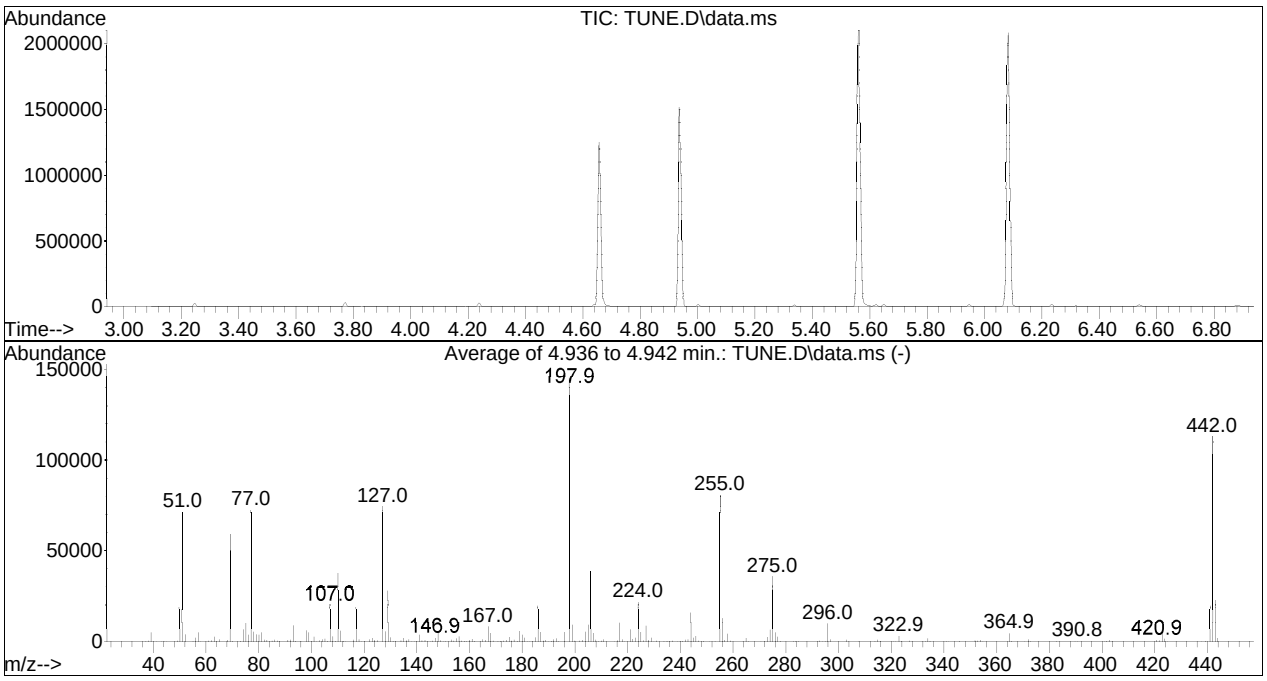
30)	s	4-Terphenyl-d14		0.743	0.691	0.680	0.678	0.737	0.729	0.695	0.712	0.641	0.701	4.72
31)	i	Chrysene-d12	----------ISTD----------											
32)	t	Benzo[a]anthracene	1.335	0.718	0.368	0.234	0.138	0.134	0.124	0.119	0.124	0.117	*L	0.9992
33)	t	3,3'-Dichlorob...					0.333	0.402	0.437	0.444	0.486	0.464	0.428	12.65
34)	t	Chrysene	1.056	1.043	0.957	1.082	1.161	1.319	1.239	1.167	1.201	1.110	1.133	9.33
35)	T	bis(2-Ethylhexyl)phthalate					0.473	0.518	0.596	0.643	0.756	0.747	*L	0.9965
36)	i	Perylene-d12	----------ISTD----------											
37)	t	Benzo[b]fluora...	1.053	1.021	1.031	1.028	1.019	1.193	1.243	1.160	1.186	1.110	1.104	7.69
38)	t	Benzo[k]fluora...	1.042	1.101	1.045	1.021	1.048	1.142	1.113	1.089	1.157	1.079	1.084	4.18
39)	t	Benzo[a]pyrene	0.863	0.883	0.852	0.859	0.861	1.010	1.043	1.006	1.071	1.007	0.946	9.37
40)	t	Indeno[1,2,3-c...	0.688	0.830	0.810	0.813	0.883	1.049	1.083	1.003	1.086	1.052	0.930	15.26
41)	t	Dibenzo[a,h]anthracene	0.749	0.795	0.790	0.810	0.804	0.995	0.993	0.941	0.984	0.924	0.879	11.10
42)	t	Benzo[g,h,i]pe...	0.898	0.848	0.854	0.875	0.874	1.061	1.043	0.982	1.032	0.965	0.943	8.83

(#) = Out of Range

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : TUNE.D
Acq On : 25 Sep 2024 12:30 am
Operator : SV120:mrg
Sample : TUNE Lot#11037
Misc : WG1976347
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Sep 25 11:34:07 2024



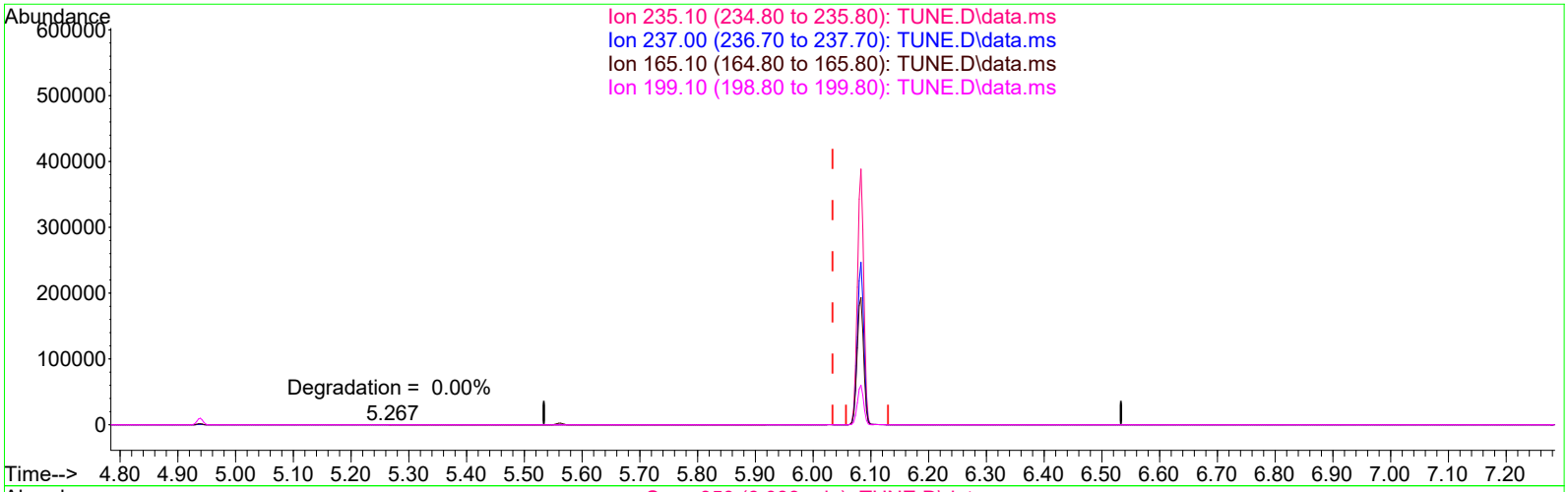
Spectrum Information: Average of 4.936 to 4.942 min.

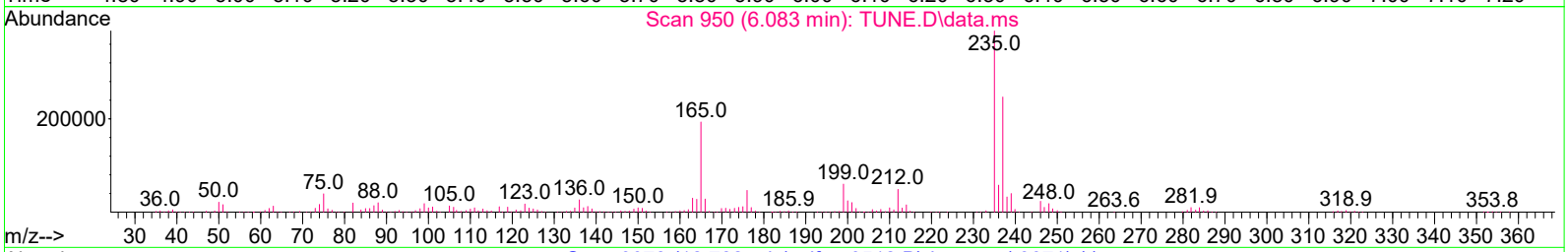
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	48.9	71189	PASS
68	69	0.00	2	1.9	1116	PASS
69	69	100	100	100.0	58763	PASS
70	69	0.00	2	0.9	507	PASS
127	198	10	80	50.9	74080	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	145483	PASS
199	198	5	9	6.0	8736	PASS
275	198	10	60	24.5	35693	PASS
365	198	1	100	3.0	4431	PASS
441	442	0.01	24	17.2	19468	PASS
442	198	50	100	77.8	113141	PASS
443	442	15	24	20.0	22576	PASS

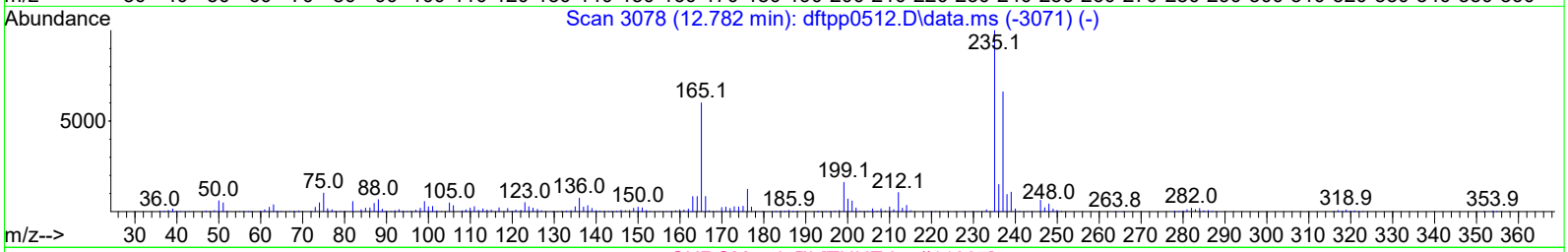
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : TUNE.D
Acq On : 25 Sep 2024 12:30 am
Operator : SV120:mrg
Sample : TUNE Lot#11037
Misc : WG1976347
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 25 11:34:16 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 06 15:55:25 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools™ [TUNE Lot#11037]

(6) ddt (T)

6.083min (+ 0.049) 48.77

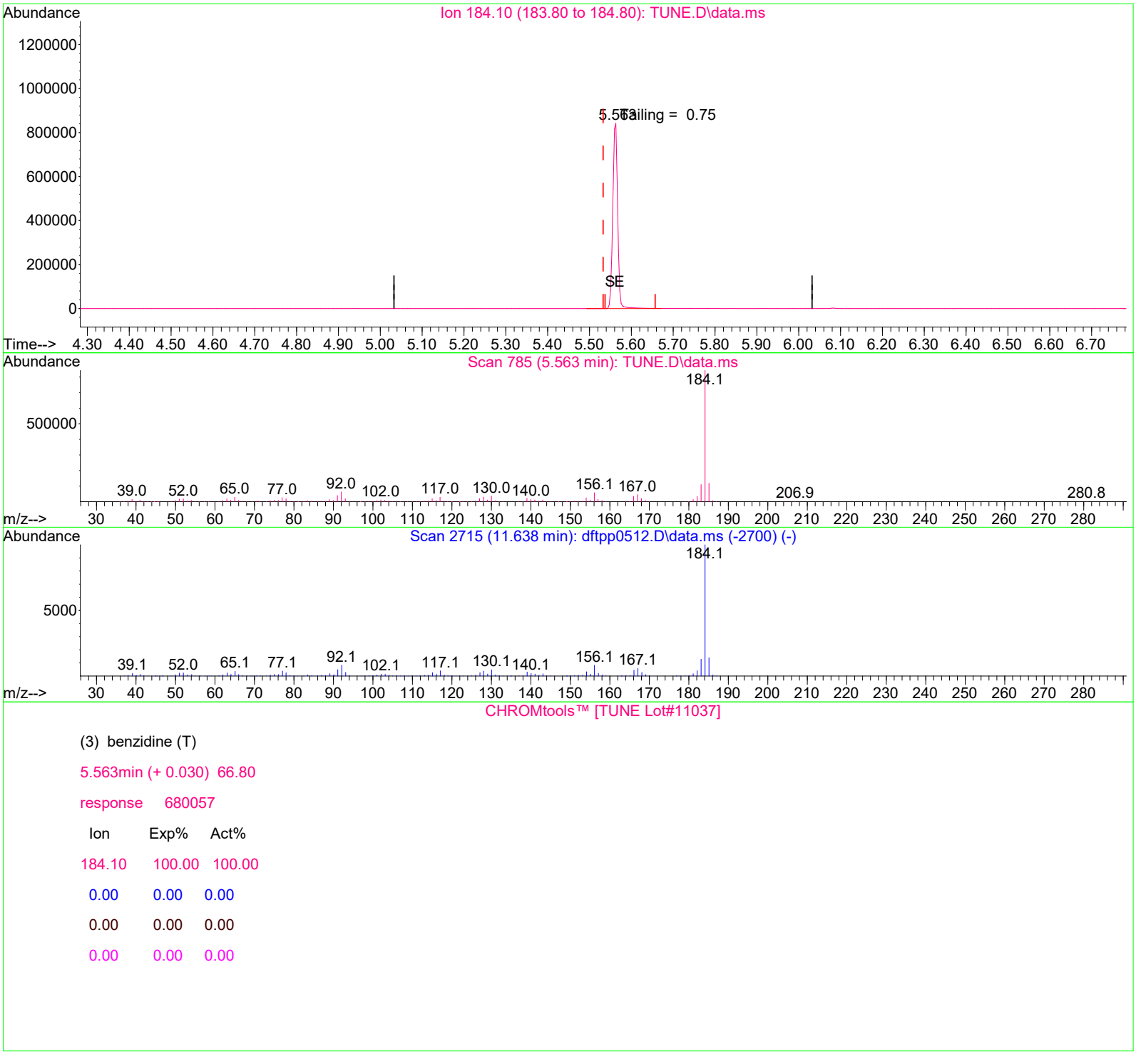
response 297288

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.60
165.10	53.30	50.99
199.10	17.10	15.48

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : TUNE.D
Acq On : 25 Sep 2024 12:30 am
Operator : SV120:mrg
Sample : TUNE Lot#11037
Misc : WG1976347
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 25 11:34:16 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 06 15:55:25 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



CHROMtools™ [TUNE Lot#11037]

(3) benzidine (T)

5.563min (+ 0.030) 66.80

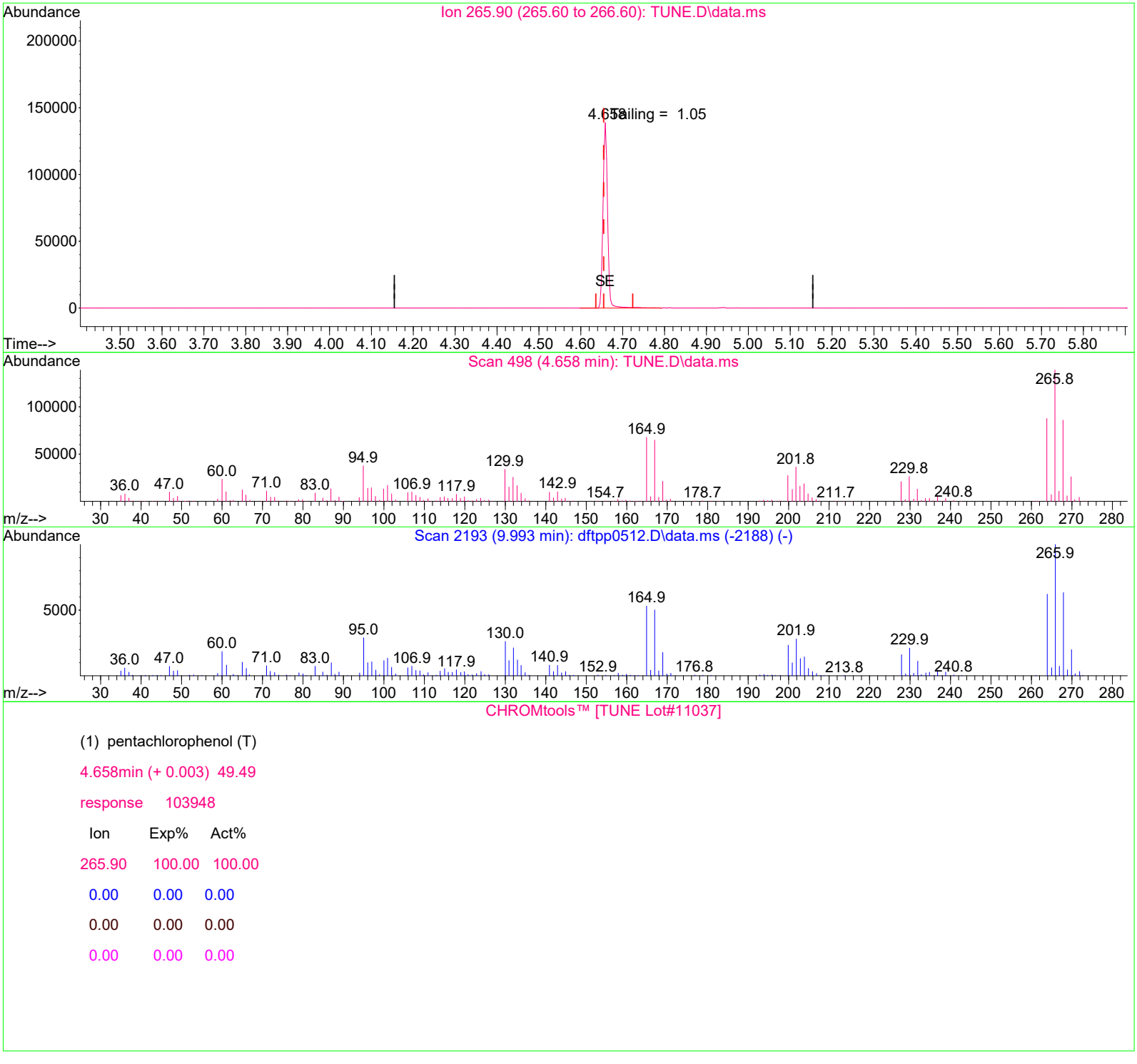
response 680057

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : TUNE.D
Acq On : 25 Sep 2024 12:30 am
Operator : SV120:mrg
Sample : TUNE Lot#11037
Misc : WG1976347
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 25 11:34:16 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 06 15:55:25 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



CHROMtools™ [TUNE Lot#11037]

(1) pentachlorophenol (T)

4.658min (+ 0.003) 49.49

response 103948

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL10.D
Acq On : 25 Sep 2024 12:46 am
Operator : SV120:mrg
Sample : IL10,32,,5000.0ng/mL lot# 10885
Misc : WG1976347
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 25 18:06:37 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.089	152	278529	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 88.79%			
8) Naphthalene-d8	2.748	136	1071111	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 90.38%			
17) Acenaphthene-d10	3.722	164	640098	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 94.93%			
22) Phenanthrene-d10	4.560	188	1381454	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 100.75%			
31) Chrysene-d12	6.111	240	1371302	4000.000	ng/ml	0.00
Standard Area 1 = 1370492			Recovery = 100.06%			
36) Perylene-d12	7.211	264	1421912	4000.000	ng/ml	0.00
Standard Area 1 = 1438322			Recovery = 98.86%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.521	112	359396	4666.884	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 233.34%#			
3) Phenol-d6	1.913	99	456768	5053.032	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 252.65%#			
7) Nitrobenzene-d5	2.370	82	395418	5174.906	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 517.49%#			
13) 2-Fluorobiphenyl	3.347	172	921644	4532.203	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 453.22%#			
21) 2,4,6-Tribromophenol	4.169	330	160458	5604.360	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 280.22%#			
30) 4-Terphenyl-d14	5.483	244	1106960	4575.326	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 228.77%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.960	93	355285	4483.696	ng/ml	97
5) n-nitrosodi-n-propylamine	2.293	70	280253	5227.834	ng/ml	100
6) Hexachloroethane	2.343	117	159088	4665.089	ng/ml	99
9) Naphthalene	2.758	128	1210168	4532.497	ng/ml	100
10) Hexachlorobutadiene	2.833	225	229523	4491.006	ng/ml	100
11) 2-Methylnaphthalene	3.138	142	802910	4781.059	ng/ml	98
12) 1-Methylnaphthalene	3.191	142	744330	4594.169	ng/ml	99
14) 2-Chloronaphthalene	3.407	162	847029	4840.184	ng/ml	99
15) 2,6-Dinitrotoluene	3.611	165	222910	5049.435	ng/ml	98
16) Acenaphthylene	3.641	152	1301260	5111.507	ng/ml	100
18) Acenaphthene	3.738	153	885764	4631.214	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL10.D
Acq On : 25 Sep 2024 12:46 am
Operator : SV120:mrg
Sample : IL10,32,,5000.0ng/mL lot# 10885
Misc : WG1976347
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 25 18:06:37 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.836	165	317539	5026.940	ng/ml	96
20) Fluorene	4.032	166	1026833	4860.783	ng/ml	98
23) 4,6-Dinitro-o-cresol	4.070	198	206653	5071.058	ng/ml	98
24) Hexachlorobenzene	4.349	284	345672	4352.335	ng/ml	98
25) Pentachlorophenol	4.463	266	248364	4092.764	ng/ml	100
26) Phenanthrene	4.574	178	1573505	4524.482	ng/ml	99
27) Anthracene	4.602	178	1595101	4674.815	ng/ml	99
28) Fluoranthene	5.253	202	1926770	4784.310	ng/ml	99
29) Pyrene	5.383	202	2008724	4716.713	ng/ml	99
32) Benzo[a]anthracene	6.101	228	2001314	4897.643	ng/ml	99
33) 3,3'-Dichlorobenzene	6.096	252	795299	5423.218	ng/ml	99
34) Chrysene	6.126	228	1901796	4894.616	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.138	149	1280397	5084.769	ng/ml	99
37) Benzo[b]fluoranthene	6.871	252	1972687	5024.460	ng/ml	99
38) Benzo[k]fluoranthene	6.898	252	1917742	4978.440	ng/ml	98
39) Benzo[a]pyrene	7.155	252	1790665	5327.424	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.334	276	1871010	5661.059	ng/ml	98
41) Dibenzo[a,h]anthracene	8.369	278	1641895M6	5257.406	ng/ml	
42) Benzo[g,h,i]perylene	8.657	276	1715345	5115.366	ng/ml	100

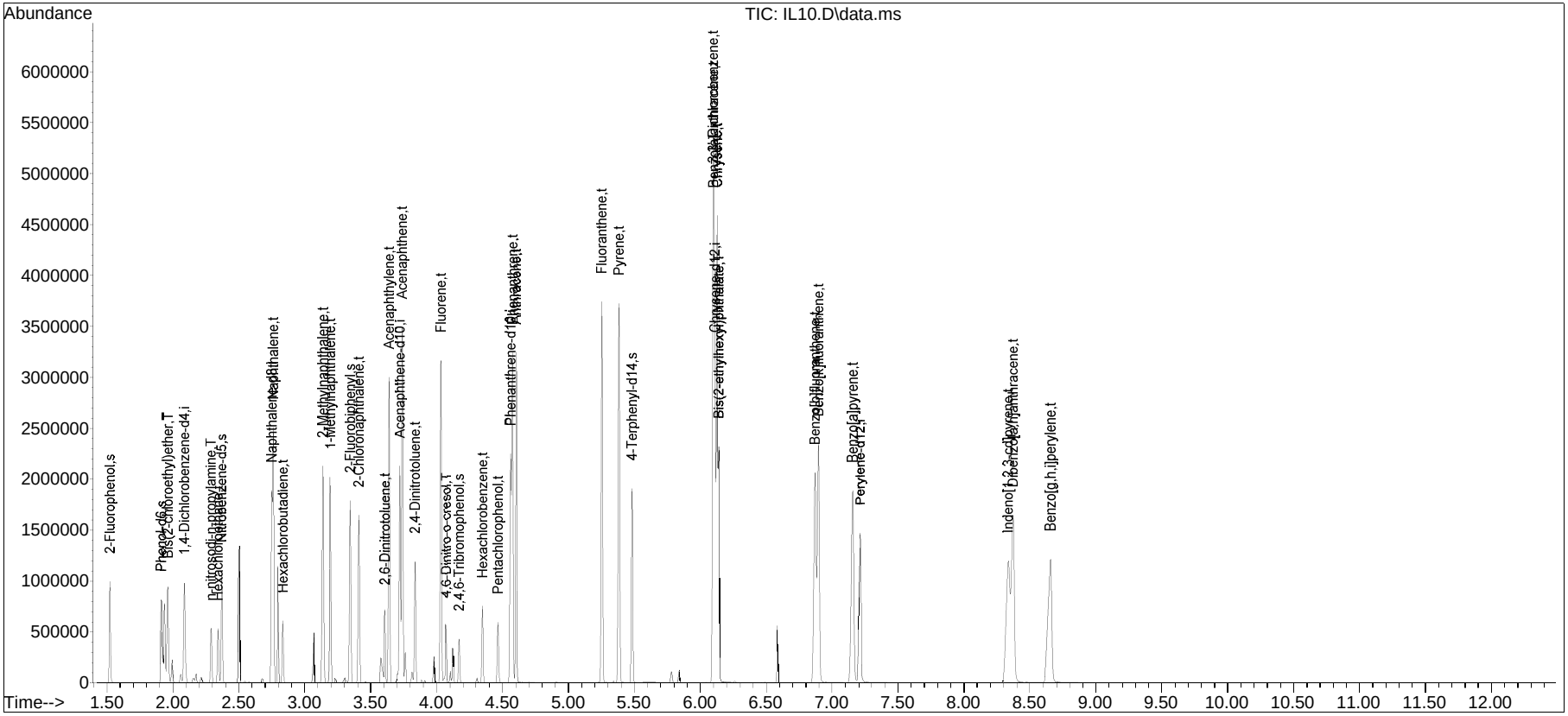
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL10.D
Acq On : 25 Sep 2024 12:46 am
Operator : SV120:mrg
Sample : IL10,32,,5000.0ng/mL lot# 10885
Misc : WG1976347
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 25 18:06:37 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

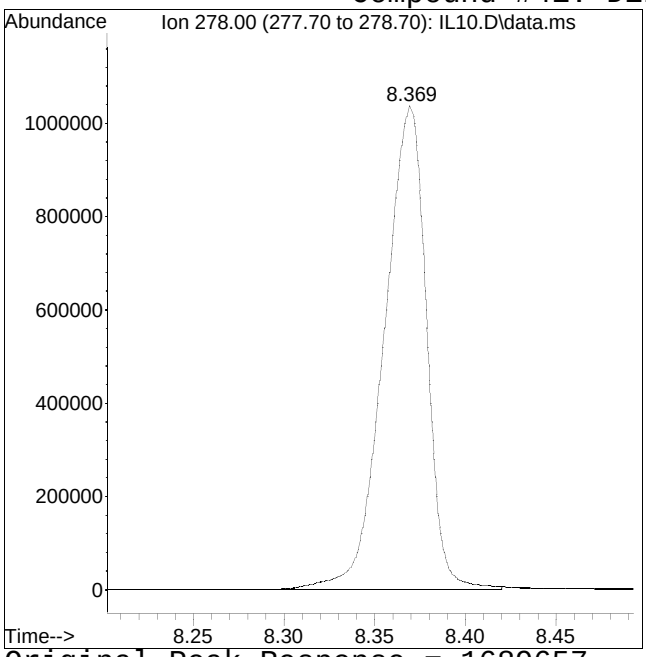
Sub List : Default - All compounds listedical\IL8.D•



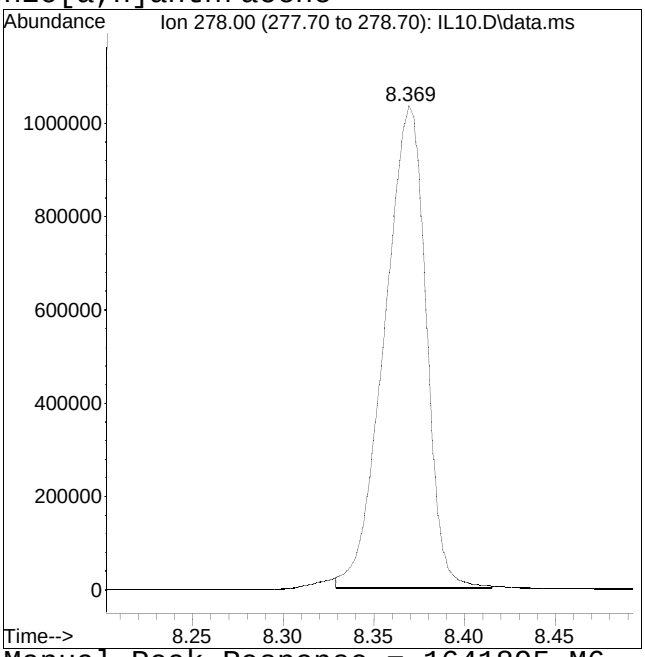
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQMethod : SIM-RVT_240925_sv120.M
Data File : IL10.D Operator : SV120:mrg
Date Inj'd : 9/25/2024 12:46 am Instrument : SV120
Sample : IL10,32,,5000.0ng/mL lot# Quant Date : 9/25/2024 6:07 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 1689657



Manual Peak Response = 1641895 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL9.D
Acq On : 25 Sep 2024 01:03 am
Operator : SV120:mrg
Sample : IL9,32,,2500.0ng/mL lot# 10901
Misc : WG1976347
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 18:07:11 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.092	152	269545	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 85.92%			
8) Naphthalene-d8	2.750	136	1031424	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 87.03%			
17) Acenaphthene-d10	3.723	164	605282	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 89.76%			
22) Phenanthrene-d10	4.562	188	1266945	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 92.40%			
31) Chrysene-d12	6.105	240	1309689	4000.000	ng/ml	0.00
Standard Area 1 = 1370492			Recovery = 95.56%			
36) Perylene-d12	7.207	264	1382736	4000.000	ng/ml	0.00
Standard Area 1 = 1438322			Recovery = 96.14%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.523	112	185175	2484.708	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 124.24%#			
3) Phenol-d6	1.917	99	228270	2609.422	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 130.47%#			
7) Nitrobenzene-d5	2.373	82	196379	2655.708	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 265.57%#			
13) 2-Fluorobiphenyl	3.347	172	470228	2401.330	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 240.13%#			
21) 2,4,6-Tribromophenol	4.168	330	78538	2900.903	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 145.05%#			
30) 4-Terphenyl-d14	5.482	244	563412	2539.188	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 126.96%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.960	93	185784	2422.739	ng/ml	100
5) n-nitrosodi-n-propylamine	2.295	70	136872	2638.307	ng/ml	100
6) Hexachloroethane	2.345	117	81037	2455.528	ng/ml	100
9) Naphthalene	2.761	128	611300	2377.626	ng/ml	100
10) Hexachlorobutadiene	2.836	225	117133	2380.093	ng/ml	100
11) 2-Methylnaphthalene	3.138	142	404914	2503.902	ng/ml	98
12) 1-Methylnaphthalene	3.195	142	377147	2417.405	ng/ml	99
14) 2-Chloronaphthalene	3.411	162	422554	2507.512	ng/ml	100
15) 2,6-Dinitrotoluene	3.610	165	108703	2565.010	ng/ml	99
16) Acenaphthylene	3.640	152	647165	2639.959	ng/ml	100
18) Acenaphthene	3.740	153	440713	2436.809	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL9.D
Acq On : 25 Sep 2024 01:03 am
Operator : SV120:mrg
Sample : IL9,32,,2500.0ng/mL lot# 10901
Misc : WG1976347
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 18:07:11 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.835	165	152745	2567.000	ng/ml	98
20) Fluorene	4.031	166	511278	2559.483	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.067	198	95999	2582.941	ng/ml	98
24) Hexachlorobenzene	4.348	284	172857	2373.142	ng/ml	99
25) Pentachlorophenol	4.462	266	111770	2490.259	ng/ml	100
26) Phenanthrene	4.573	178	777372	2437.296	ng/ml	100
27) Anthracene	4.601	178	791368	2528.910	ng/ml	100
28) Fluoranthene	5.252	202	956878	2590.745	ng/ml	100
29) Pyrene	5.382	202	1002284	2566.189	ng/ml	100
32) Benzo[a]anthracene	6.095	228	1016936	2600.982	ng/ml	100
33) 3,3'-Dichlorobenzene	6.090	252	397872	2840.762	ng/ml	99
34) Chrysene	6.120	228	983664	2650.736	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.134	149	619161	2586.555	ng/ml	100
37) Benzo[b]fluoranthene	6.864	252	1025267	2685.355	ng/ml	100
38) Benzo[k]fluoranthene	6.887	252	999697	2668.732	ng/ml	99
39) Benzo[a]pyrene	7.145	252	925281	2830.805	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.322	276	938330	2919.514	ng/ml	98
41) Dibenzo[a,h]anthracene	8.357	278	850544M6	2800.634	ng/ml	
42) Benzo[g,h,i]perylene	8.639	276	892644	2737.392	ng/ml	100

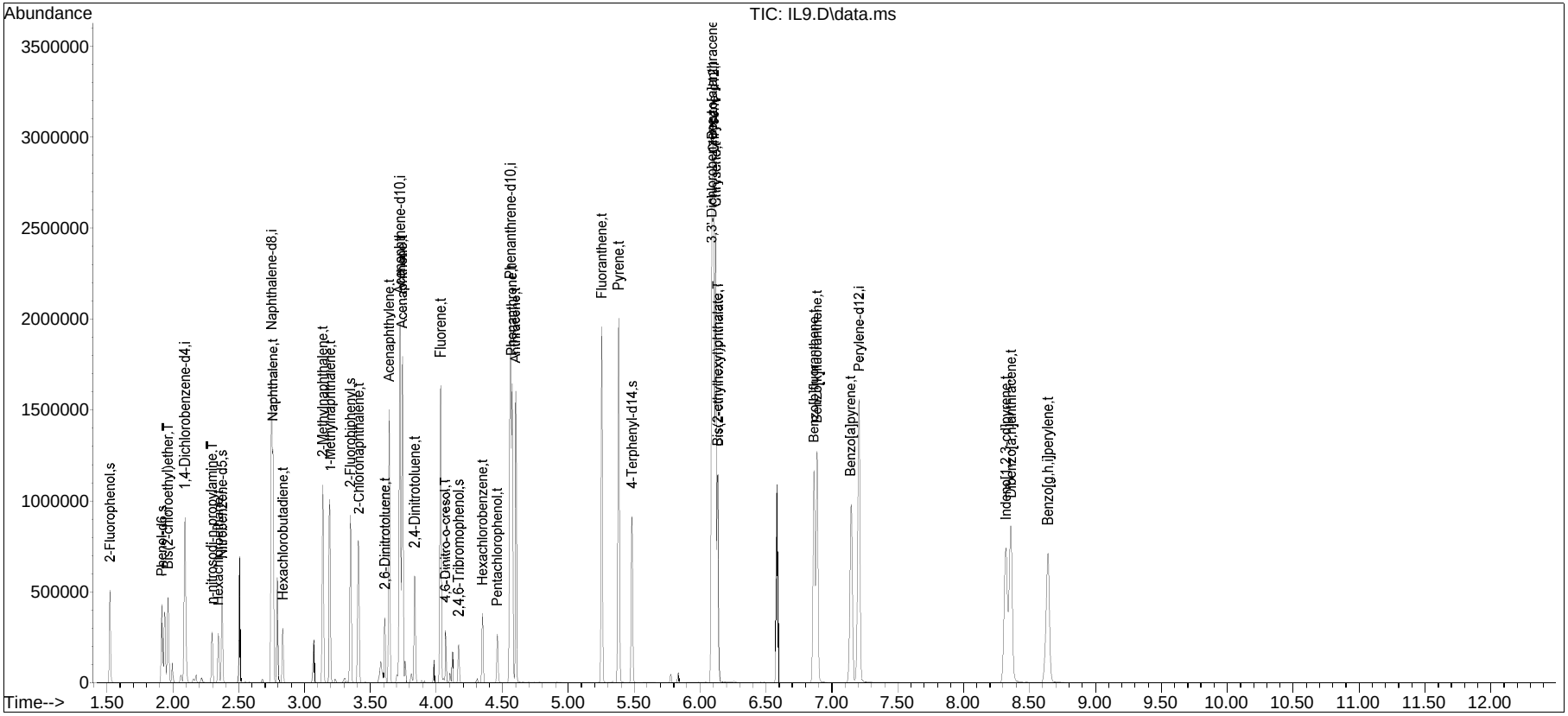
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL9.D
Acq On : 25 Sep 2024 01:03 am
Operator : SV120:mrg
Sample : IL9,32,,2500.0ng/mL lot# 10901
Misc : WG1976347
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 18:07:11 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

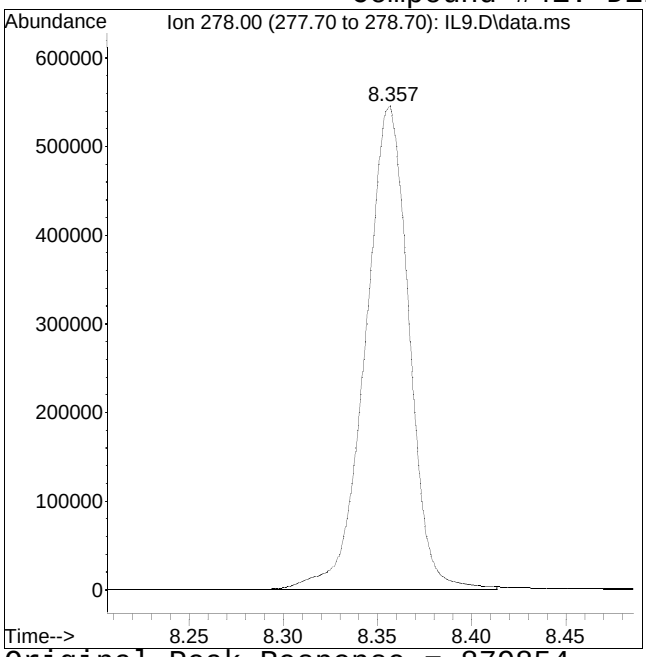
Sub List : Default - All compounds listedical\IL8.D•



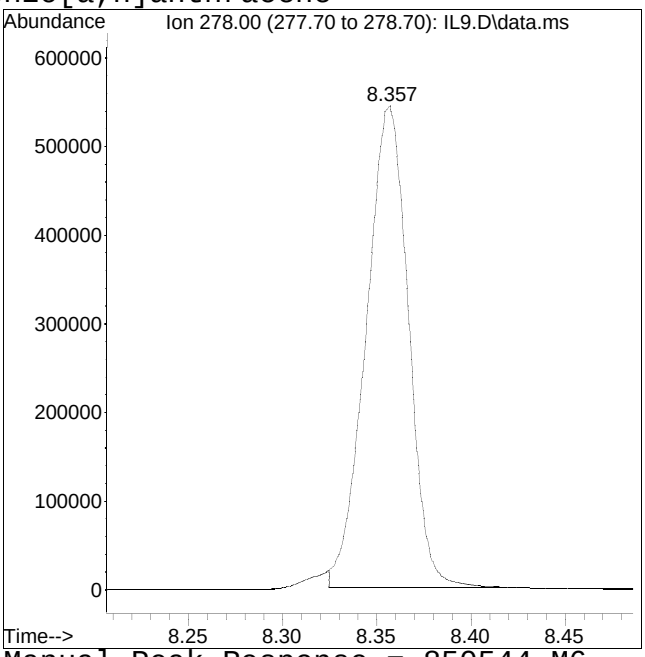
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQMethod : SIM-RVT_240925_sv120.M
Data File : IL9.D Operator : SV120:mrg
Date Inj'd : 9/25/2024 1:03 am Instrument : SV120
Sample : IL9,32,,2500.0ng/mL lot# 1Quant Date : 9/25/2024 6:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 879854



Manual Peak Response = 850544 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL8.D
Acq On : 25 Sep 2024 01:19 am
Operator : SV120:mrg
Sample : IL8,32,,1000.0ng/mL lot# 10888
Misc : WG1976347
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 25 18:07:07 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.096	152	313709	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 100.00%			
8) Naphthalene-d8	2.750	136	1185096	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 100.00%			
17) Acenaphthene-d10	3.724	164	674310	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 100.00%			
22) Phenanthrene-d10	4.562	188	1371198	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 100.00%			
31) Chrysene-d12	6.100	240	1370492	4000.000	ng/ml	0.00
Standard Area 1 = 1370492			Recovery = 100.00%			
36) Perylene-d12	7.201	264	1438322	4000.000	ng/ml	0.00
Standard Area 1 = 1438322			Recovery = 100.00%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.529	112	86581	998.205	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 49.91%			
3) Phenol-d6	1.920	99	103688	1018.423	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.92%			
7) Nitrobenzene-d5	2.373	82	89253	1037.080	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 103.71%			
13) 2-Fluorobiphenyl	3.347	172	217753	967.813	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 96.78%			
21) 2,4,6-Tribromophenol	4.169	330	33075	1096.608	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 54.83%			
30) 4-Terphenyl-d14	5.480	244	238199	991.896	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 49.59%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.963	93	86065	964.338	ng/ml	100
5) n-nitrosodi-n-propylamine	2.298	70	60431	1000.863	ng/ml	100
6) Hexachloroethane	2.348	117	37432	974.561	ng/ml	100
9) Naphthalene	2.761	128	279093	944.761	ng/ml	100
10) Hexachlorobutadiene	2.836	225	54504	963.888	ng/ml	100
11) 2-Methylnaphthalene	3.141	142	185552	998.628	ng/ml	100
12) 1-Methylnaphthalene	3.194	142	171631	957.454	ng/ml	100
14) 2-Chloronaphthalene	3.410	162	191370	988.367	ng/ml	100
15) 2,6-Dinitrotoluene	3.610	165	44803	930.350	ng/ml	100
16) Acenaphthylene	3.641	152	285793	1014.653	ng/ml	100
18) Acenaphthene	3.741	153	195907	972.330	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL8.D
Acq On : 25 Sep 2024 01:19 am
Operator : SV120:mrg
Sample : IL8,32,,1000.0ng/mL lot# 10888
Misc : WG1976347
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 25 18:07:07 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.838	165	61796	944.939	ng/ml	100
20) Fluorene	4.031	166	220495	990.814	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.067	198	35742	907.573	ng/ml	100
24) Hexachlorobenzene	4.348	284	76434	969.574	ng/ml	100
25) Pentachlorophenol	4.462	266	39658	1044.089	ng/ml	100
26) Phenanthrene	4.573	178	335543	972.042	ng/ml	100
27) Anthracene	4.601	178	336173	992.602	ng/ml	100
28) Fluoranthene	5.253	202	395801	990.154	ng/ml	100
29) Pyrene	5.380	202	417988	988.825	ng/ml	100
32) Benzo[a]anthracene	6.090	228	408427	992.014	ng/ml	100
33) 3,3'-Dichlorobenzene	6.085	252	152173	1038.295	ng/ml	100
34) Chrysene	6.112	228	400013	1030.114	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.130	149	220301	895.579	ng/ml	100
37) Benzo[b]fluoranthene	6.857	252	417073	1050.171	ng/ml	100
38) Benzo[k]fluoranthene	6.881	252	391448	1004.601	ng/ml	100
39) Benzo[a]pyrene	7.138	252	361650	1063.673	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.311	276	360616	1078.656	ng/ml	100
41) Dibenzo[a,h]anthracene	8.343	278	338339M6	1071.013	ng/ml	
42) Benzo[g,h,i]perylene	8.623	276	353390	1041.828	ng/ml	100

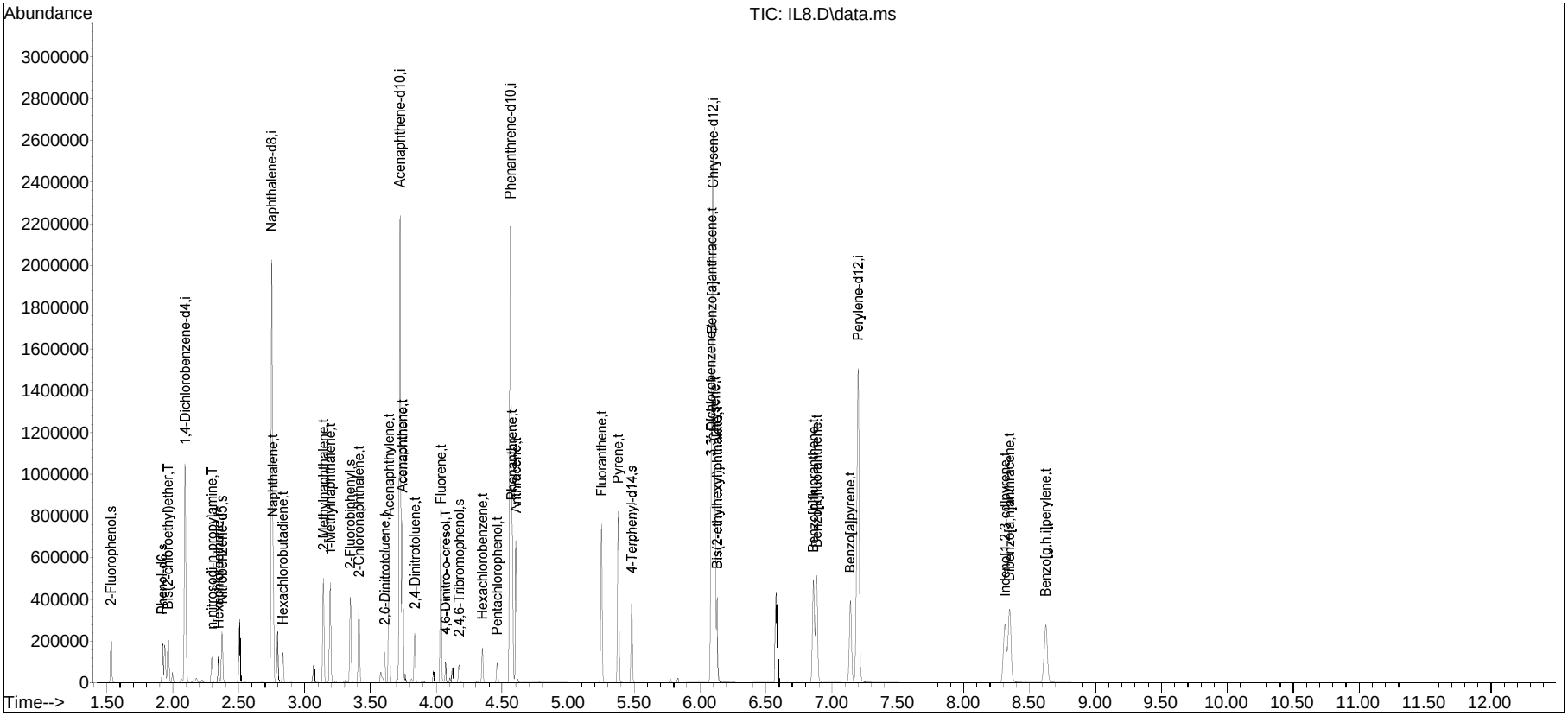
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL8.D
Acq On : 25 Sep 2024 01:19 am
Operator : SV120:mrg
Sample : IL8,32,,1000.0ng/mL lot# 10888
Misc : WG1976347
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 25 18:07:07 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

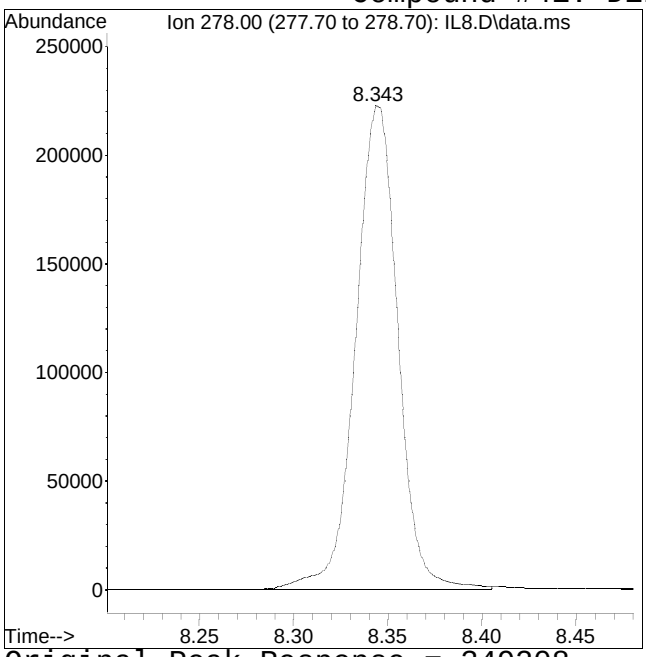
Sub List : Default - All compounds listedical\IL8.D•



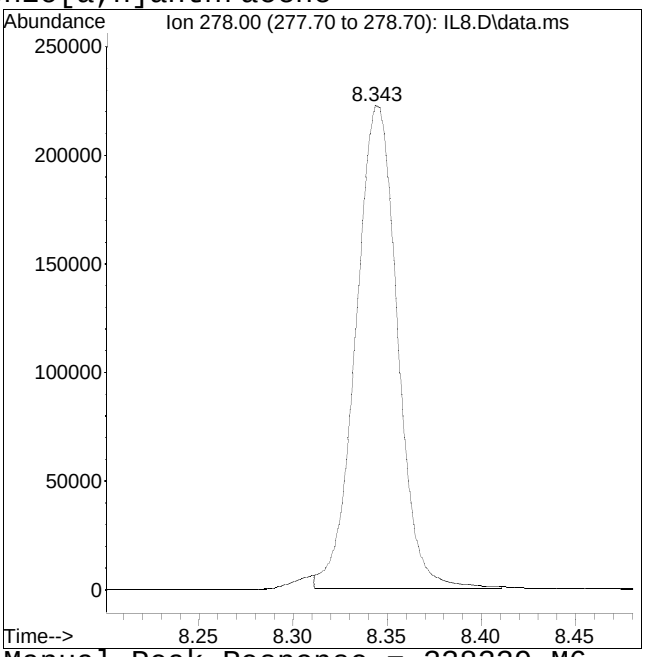
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL8.D
Date Inj'd : 9/25/2024 1:19 am
Sample : IL8,32,,1000.0ng/mL lot# 1
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 349208



Manual Peak Response = 338339 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL7.D
Acq On : 25 Sep 2024 01:35 am
Operator : SV120:mrg
Sample : IL7,32,,500.0ng/mL lot# 10889
Misc : WG1976347
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 25 18:07:03 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.096	152	280461	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 89.40%			
8) Naphthalene-d8	2.751	136	1042462	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 87.96%			
17) Acenaphthene-d10	3.722	164	592218	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 87.83%			
22) Phenanthrene-d10	4.560	188	1199588	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 87.48%			
31) Chrysene-d12	6.098	240	1238039	4000.000	ng/ml	-0.01
Standard Area 1 = 1370492			Recovery = 90.34%			
36) Perylene-d12	7.199	264	1309808	4000.000	ng/ml	0.00
Standard Area 1 = 1438322			Recovery = 91.07%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.532	112	40838	526.643	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 26.33%			
3) Phenol-d6	1.920	99	47195	518.502	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 25.93%			
7) Nitrobenzene-d5	2.374	82	40442	525.626	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 52.56%			
13) 2-Fluorobiphenyl	3.351	172	100949	510.061	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 51.01%			
21) 2,4,6-Tribromophenol	4.170	330	14414	544.144	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 27.21%			
30) 4-Terphenyl-d14	5.481	244	109285	520.182	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 26.01%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.967	93	40139	503.065	ng/ml	99
5) n-nitrosodi-n-propylamine	2.299	70	27256	504.930	ng/ml	99
6) Hexachloroethane	2.349	117	17348	505.208	ng/ml	100
9) Naphthalene	2.762	128	128938	496.189	ng/ml	100
10) Hexachlorobutadiene	2.837	225	25237	507.375	ng/ml	100
11) 2-Methylnaphthalene	3.142	142	85298	521.880	ng/ml	100
12) 1-Methylnaphthalene	3.195	142	78823	499.883	ng/ml	99
14) 2-Chloronaphthalene	3.411	162	87054	511.124	ng/ml	100
15) 2,6-Dinitrotoluene	3.608	165	18739	450.742	ng/ml	96
16) Acenaphthylene	3.642	152	129357	522.094	ng/ml	100
18) Acenaphthene	3.742	153	89598	506.337	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL7.D
Acq On : 25 Sep 2024 01:35 am
Operator : SV120:mrg
Sample : IL7,32,,500.0ng/mL lot# 10889
Misc : WG1976347
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 25 18:07:03 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.836	165	25756	458.931	ng/ml	97
20) Fluorene	4.032	166	100523	514.324	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.068	198	14480	435.846	ng/ml	100
24) Hexachlorobenzene	4.349	284	34821	504.898	ng/ml	100
25) Pentachlorophenol	4.463	266	14304	484.747	ng/ml	100
26) Phenanthrene	4.571	178	152385	504.600	ng/ml	100
27) Anthracene	4.602	178	150865	509.177	ng/ml	100
28) Fluoranthene	5.251	202	178056	509.155	ng/ml	100
29) Pyrene	5.380	202	189764	513.142	ng/ml	100
32) Benzo[a]anthracene	6.091	228	191393	509.713	ng/ml	100
33) 3,3'-Dichlorobenzene	6.084	252	67682	511.209	ng/ml#	99
34) Chrysene	6.111	228	191830	546.852	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.128	149	92153	427.803	ng/ml	99
37) Benzo[b]fluoranthene	6.856	252	203614	562.994	ng/ml	100
38) Benzo[k]fluoranthene	6.877	252	182354	513.906	ng/ml	100
39) Benzo[a]pyrene	7.137	252	170905	551.979	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.310	276	177490	582.989	ng/ml	99
41) Dibenzo[a,h]anthracene	8.342	278	162735M6	565.682	ng/ml	
42) Benzo[g,h,i]perylene	8.619	276	170813	552.982	ng/ml	100

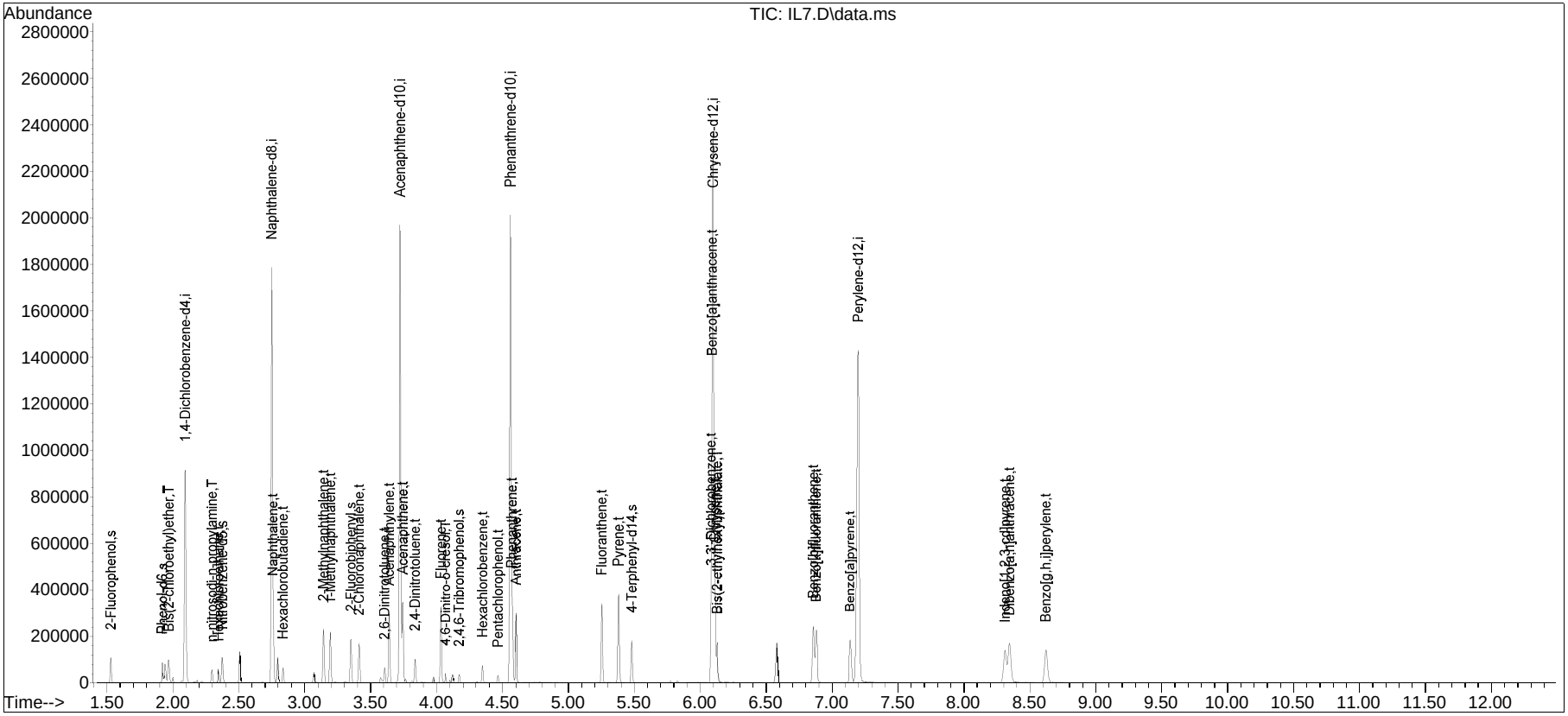
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL7.D
Acq On : 25 Sep 2024 01:35 am
Operator : SV120:mrg
Sample : IL7,32,,500.0ng/mL lot# 10889
Misc : WG1976347
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 25 18:07:03 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

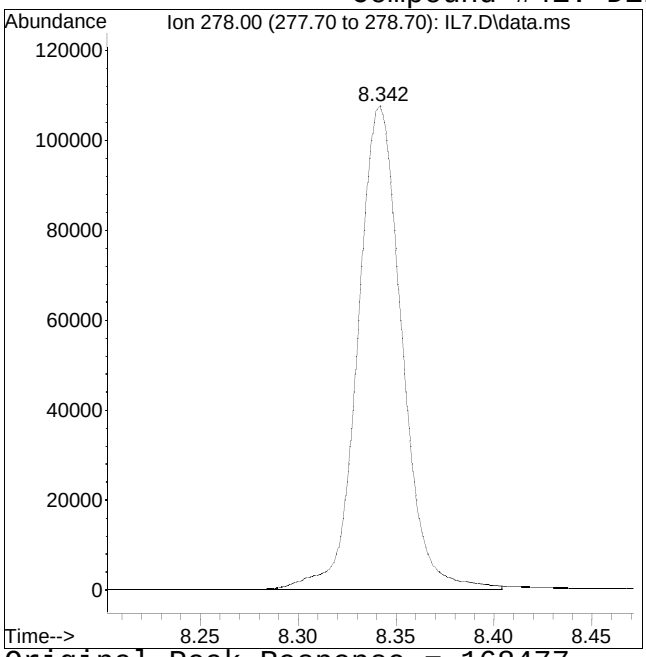
Sub List : Default - All compounds listedical\IL8.D•



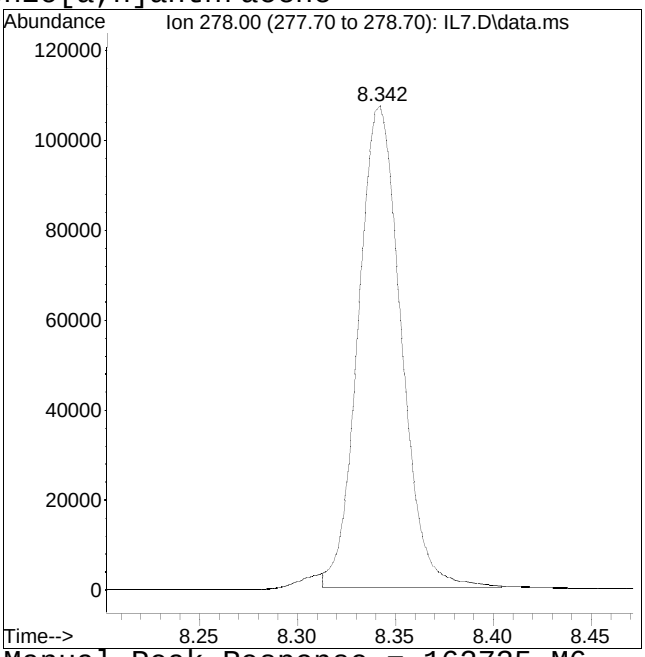
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQMethod : SIM-RVT_240925_sv120.M
Data File : IL7.D Operator : SV120:mrg
Date Inj'd : 9/25/2024 1:35 am Instrument : SV120
Sample : IL7,32,,500.0ng/mL lot# 10Quant Date : 9/25/2024 6:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 168477



Manual Peak Response = 162735 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL6.D
Acq On : 25 Sep 2024 01:52 am
Operator : SV120:mrg
Sample : IL6,32,,100.0ng/mL lot# 10899
Misc : WG1976347
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 25 18:06:59 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.096	152	316312	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 100.83%			
8) Naphthalene-d8	2.753	136	1175987	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 99.23%			
17) Acenaphthene-d10	3.723	164	658215	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 97.61%			
22) Phenanthrene-d10	4.561	188	1293757	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 94.35%			
31) Chrysene-d12	6.094	240	1195279	4000.000	ng/ml	-0.02
Standard Area 1 = 1370492			Recovery = 87.22%			
36) Perylene-d12	7.194	264	1222752	4000.000	ng/ml	0.00
Standard Area 1 = 1438322			Recovery = 85.01%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.529	112	9749	111.473	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.57%#			
3) Phenol-d6	1.920	99	11337	110.436	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.52%#			
7) Nitrobenzene-d5	2.376	82	9509	109.581	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 10.96%#			
13) 2-Fluorobiphenyl	3.351	172	24842	111.267	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 11.13%#			
21) 2,4,6-Tribromophenol	4.170	330	3103	105.396	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.27%#			
30) 4-Terphenyl-d14	5.479	244	23853	105.273	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 5.26%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.967	93	11297	125.539	ng/ml	87
5) n-nitrosodi-n-propylamine	2.301	70	6349M6	104.287	ng/ml	
6) Hexachloroethane	2.349	117	4209	108.682	ng/ml	99
9) Naphthalene	2.764	128	31310	106.809	ng/ml	100
10) Hexachlorobutadiene	2.839	225	6143	109.479	ng/ml	99
11) 2-Methylnaphthalene	3.142	142	20354	110.392	ng/ml	99
12) 1-Methylnaphthalene	3.195	142	19187	107.865	ng/ml	98
14) 2-Chloronaphthalene	3.411	162	20987	109.231	ng/ml	100
15) 2,6-Dinitrotoluene	3.609	165	4016	98.570	ng/ml	92
16) Acenaphthylene	3.642	152	29485	105.492	ng/ml	100
18) Acenaphthene	3.739	153	21536	109.502	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL6.D
Acq On : 25 Sep 2024 01:52 am
Operator : SV120:mrg
Sample : IL6,32,,100.0ng/mL lot# 10899
Misc : WG1976347
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 25 18:06:59 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.840	165	5003	96.691	ng/ml	87
20) Fluorene	4.032	166	23426	107.841	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.069	198	2514	94.487	ng/ml	99
24) Hexachlorobenzene	4.350	284	8276	111.266	ng/ml	100
25) Pentachlorophenol	4.466	266	2055	75.638	ng/ml	99
26) Phenanthrene	4.572	178	35827	110.001	ng/ml	95
27) Anthracene	4.603	178	34350	107.495	ng/ml	100
28) Fluoranthene	5.251	202	38824	102.937	ng/ml	100
29) Pyrene	5.381	202	40121	100.595	ng/ml	100
32) Benzo[a]anthracene	6.089	228	40037	102.482	ng/ml	98
33) 3,3'-Dichlorobenzene	6.084	252	12028	94.099	ng/ml#	89
34) Chrysene	6.109	228	39424	116.407	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.126	149	15482	94.591	ng/ml	100
37) Benzo[b]fluoranthene	6.854	252	36506	108.126	ng/ml	99
38) Benzo[k]fluoranthene	6.877	252	34939	105.475	ng/ml	100
39) Benzo[a]pyrene	7.132	252	30893	106.880	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.305	276	32091	112.912	ng/ml	100
41) Dibenzo[a,h]anthracene	8.340	278	30441M6	113.349	ng/ml	
42) Benzo[g,h,i]perylene	8.617	276	32437	112.486	ng/ml	100

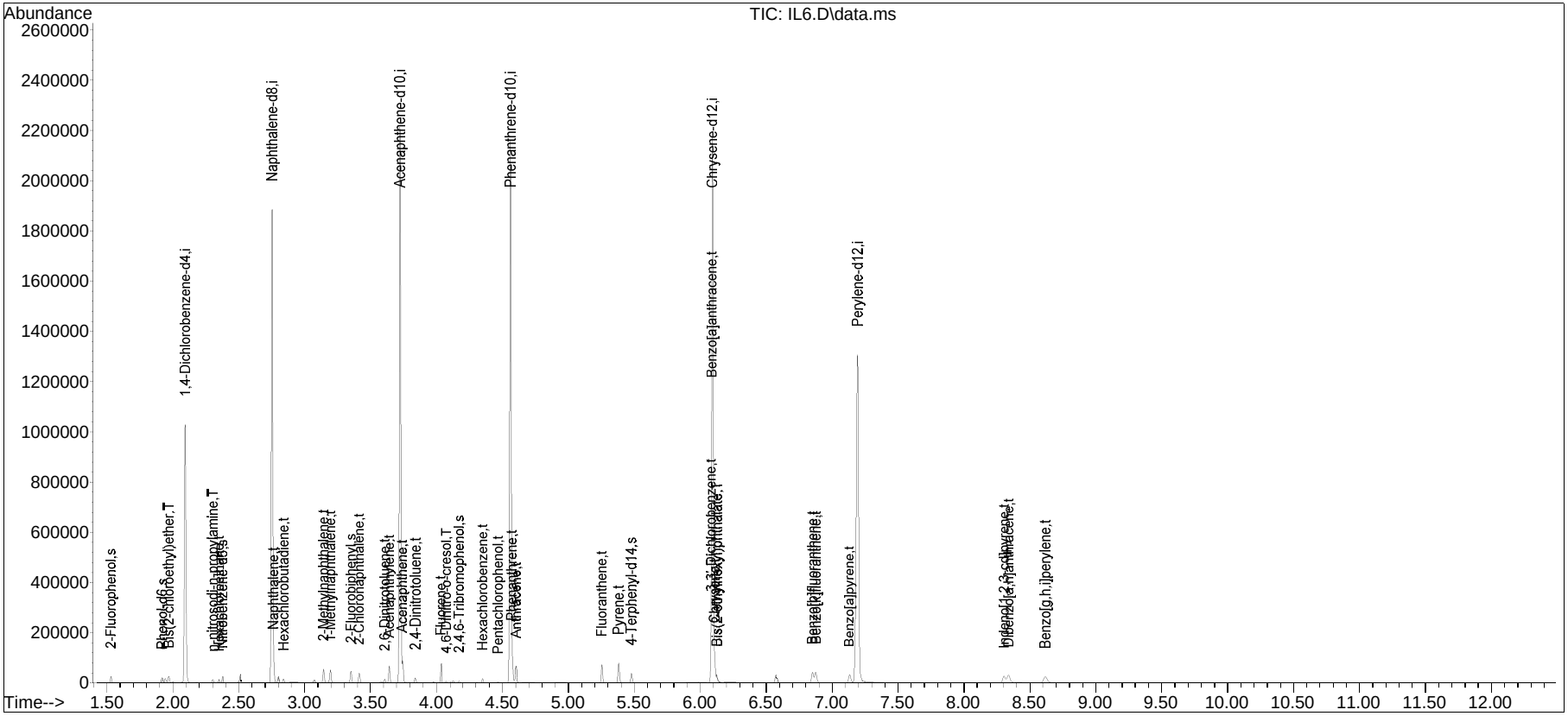
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL6.D
Acq On : 25 Sep 2024 01:52 am
Operator : SV120:mrg
Sample : IL6,32,,100.0ng/mL lot# 10899
Misc : WG1976347
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 25 18:06:59 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

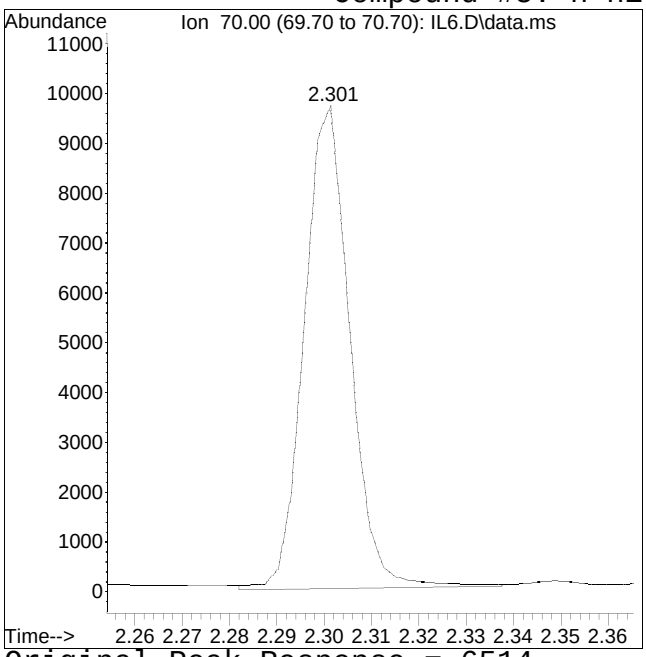
Sub List : Default - All compounds listedical\IL8.D•



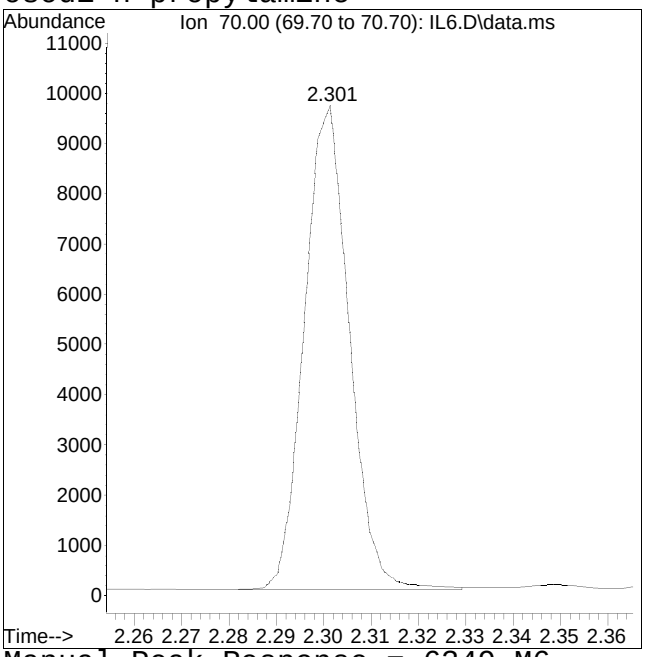
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL6.D
Date Inj'd : 9/25/2024 1:52 am
Sample : IL6,32,,100.0ng/mL lot# 10
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 6514



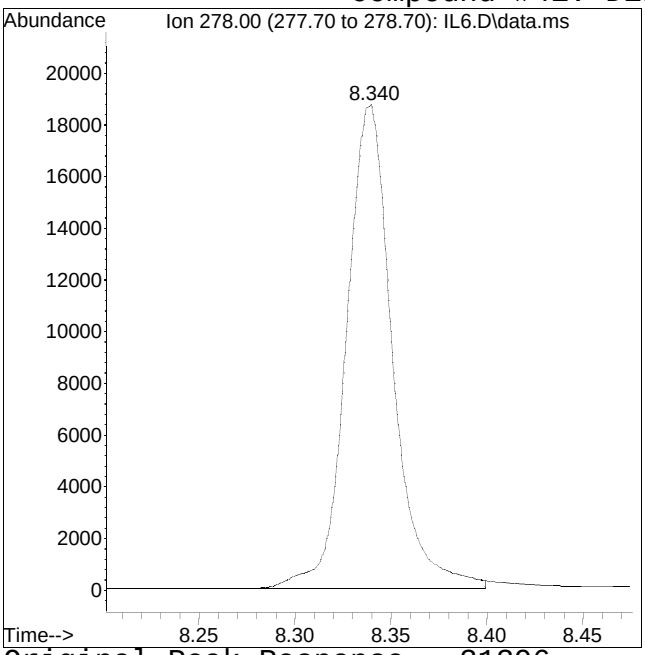
Manual Peak Response = 6349 M6

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

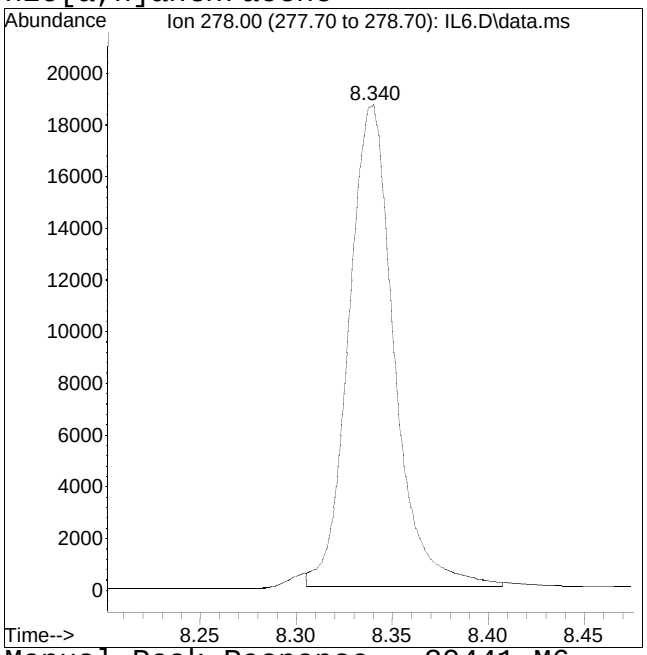
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL6.D
Date Inj'd : 9/25/2024 1:52 am
Sample : IL6,32,,100.0ng/mL lot# 10
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 31396



Manual Peak Response = 30441 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL5.D
Acq On : 25 Sep 2024 02:11 am
Operator : SV120:mrg
Sample : IL5,32,,40.0ng/mL lot# 10891
Misc : WG1976347
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 25 18:06:55 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.089	152	309852	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 98.77%			
8) Naphthalene-d8	2.749	136	1154850	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 97.45%			
17) Acenaphthene-d10	3.723	164	652555	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 96.77%			
22) Phenanthrene-d10	4.561	188	1327296	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 96.80%			
31) Chrysene-d12	6.122	240	1336887	4000.000	ng/ml	0.01
Standard Area 1 = 1370492			Recovery = 97.55%			
36) Perylene-d12	7.227	264	1339174	4000.000	ng/ml	0.02
Standard Area 1 = 1438322			Recovery = 93.11%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.524	112	3371	39.349	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.97%#			
3) Phenol-d6	1.917	99	3910	38.882	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.94%#			
7) Nitrobenzene-d5	2.374	82	3282	38.610	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 3.86%#			
13) 2-Fluorobiphenyl	3.349	172	8846	40.346	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 4.03%#			
21) 2,4,6-Tribromophenol	4.171	330	1052	36.042	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.80%#			
30) 4-Terphenyl-d14	5.492	244	9000	38.717	ng/ml	0.01
Spiked Amount 2000.000	Range 30 - 130		Recovery = 1.94%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.963	93	3431	38.922	ng/ml	99
5) n-nitrosodi-n-propylamine	2.296	70	2290	38.399	ng/ml	98
6) Hexachloroethane	2.346	117	1456	38.380	ng/ml	99
9) Naphthalene	2.759	128	11088	38.517	ng/ml	99
10) Hexachlorobutadiene	2.834	225	2196	39.853	ng/ml	99
11) 2-Methylnaphthalene	3.140	142	7123	39.340	ng/ml	99
12) 1-Methylnaphthalene	3.193	142	6953	39.804	ng/ml	100
14) 2-Chloronaphthalene	3.409	162	7470	39.591	ng/ml	99
15) 2,6-Dinitrotoluene	3.609	165	1427	45.859	ng/ml#	78
16) Acenaphthylene	3.640	152	10415	37.945	ng/ml	100
18) Acenaphthene	3.740	153	7720	39.593	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL5.D
Acq On : 25 Sep 2024 02:11 am
Operator : SV120:mrg
Sample : IL5,32,,40.0ng/mL lot# 10891
Misc : WG1976347
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 25 18:06:55 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.840	165	1652	45.526	ng/ml#	78
20) Fluorene	4.033	166	8279	38.443	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.072	198	798	49.256	ng/ml	99
24) Hexachlorobenzene	4.350	284	2974	38.973	ng/ml	99
25) Pentachlorophenol	4.467	266	960	37.858	ng/ml	96
26) Phenanthrene	4.573	178	13538	40.516	ng/ml#	84
27) Anthracene	4.603	178	12489	38.095	ng/ml	99
28) Fluoranthene	5.260	202	14485	37.435	ng/ml	100
29) Pyrene	5.389	202	15124	36.962	ng/ml	100
32) Benzo[a]anthracene	6.114	228	18497	36.368	ng/ml	95
33) 3,3'-Dichlorobenzene	6.112	252	4450	31.126	ng/ml#	67
34) Chrysene	6.134	228	15509	40.943	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.156	149	6319	50.010	ng/ml	100
37) Benzo[b]fluoranthene	6.887	252	13651	36.917	ng/ml	100
38) Benzo[k]fluoranthene	6.908	252	14041	38.702	ng/ml	96
39) Benzo[a]pyrene	7.165	252	11545	36.470	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.341	276	11837M6	38.028	ng/ml	
41) Dibenzo[a,h]anthracene	8.373	278	10768M6	36.610	ng/ml	
42) Benzo[g,h,i]perylene	8.652	276	11699	37.043	ng/ml	100

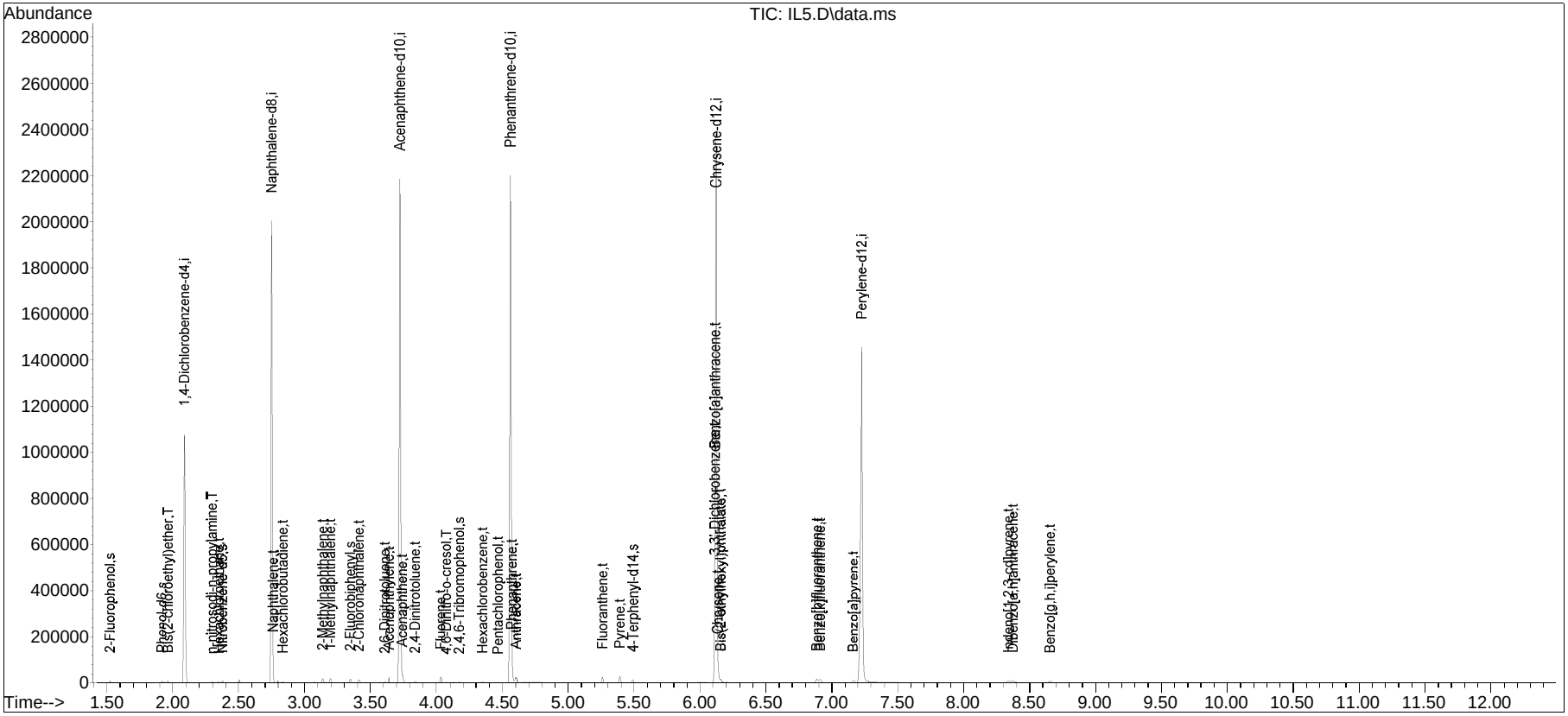
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL5.D
Acq On : 25 Sep 2024 02:11 am
Operator : SV120:mrg
Sample : IL5,32,,40.0ng/mL lot# 10891
Misc : WG1976347
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 25 18:06:55 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

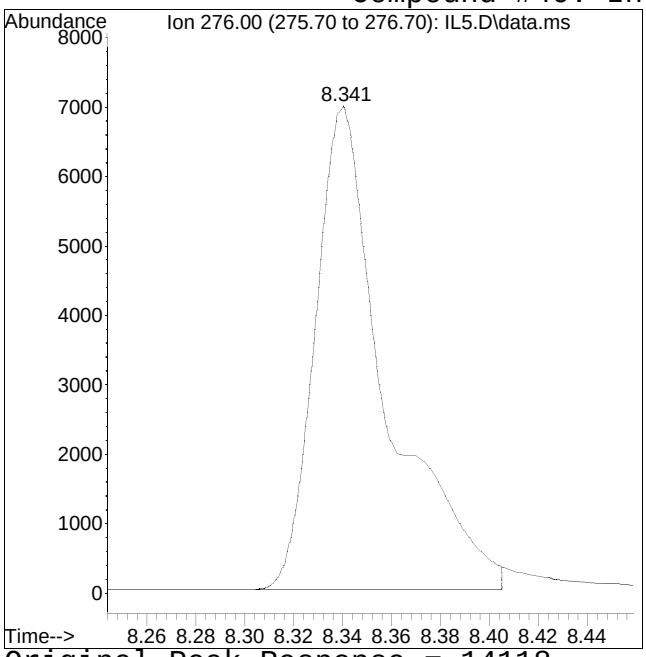
Sub List : Default - All compounds listedical\IL8.D•



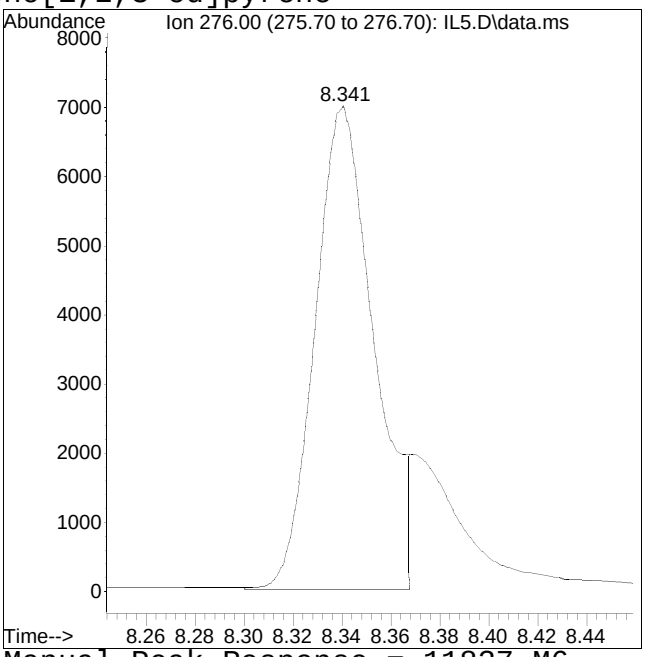
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQMethod : SIM-RVT_240925_sv120.M
Data File : IL5.D Operator : SV120:mrg
Date Inj'd : 9/25/2024 2:11 am Instrument : SV120
Sample : IL5,32,,40.0ng/mL lot# 108Quant Date : 9/25/2024 6:08 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 14118



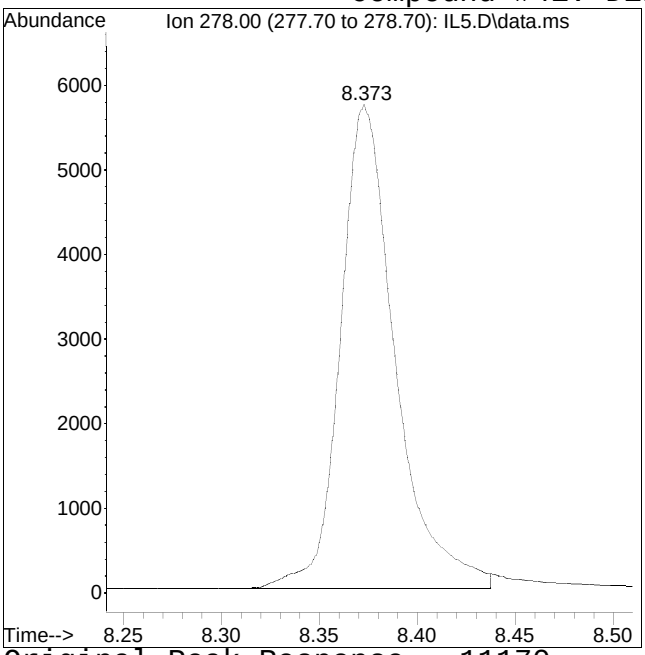
Manual Peak Response = 11837 M6

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

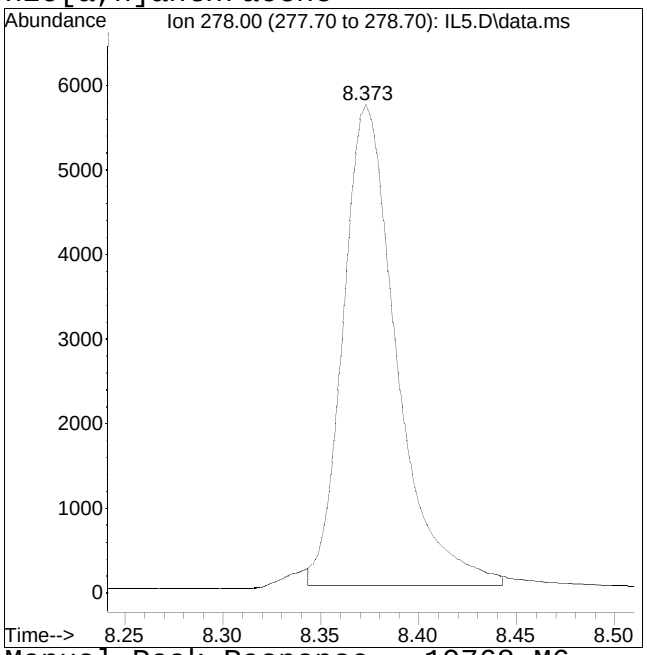
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL5.D
Date Inj'd : 9/25/2024 2:11 am
Sample : IL5,32,,40.0ng/mL lot# 108
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 11170



Manual Peak Response = 10768 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL4.D
Acq On : 25 Sep 2024 02:29 am
Operator : SV120:mrg
Sample : IL4,32,,10.0ng/mL lot#10892
Misc : WG1976347
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 25 18:06:50 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.093	152	296932	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 94.65%			
8) Naphthalene-d8	2.750	136	1088942	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 91.89%			
17) Acenaphthene-d10	3.723	164	619765	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 91.91%			
22) Phenanthrene-d10	4.561	188	1245441	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 90.83%			
31) Chrysene-d12	6.104	240	1328349	4000.000	ng/ml	0.00
Standard Area 1 = 1370492			Recovery = 96.92%			
36) Perylene-d12	7.203	264	1334399	4000.000	ng/ml	0.00
Standard Area 1 = 1438322			Recovery = 92.77%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.526	112	806	9.818	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.49%#			
3) Phenol-d6	1.920	99	923	9.578	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.48%#			
7) Nitrobenzene-d5	2.376	82	750	9.207	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.92%#			
13) 2-Fluorobiphenyl	3.351	172	2094	10.129	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 1.01%#			
21) 2,4,6-Tribromophenol	4.173	330	241	8.694	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.43%#			
30) 4-Terphenyl-d14	5.484	244	2117	9.706	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.49%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.963	93	786M6	9.305	ng/ml	
5) n-nitrosodi-n-propylamine	2.301	70	541	9.466	ng/ml#	88
6) Hexachloroethane	2.348	117	370	10.177	ng/ml	95
9) Naphthalene	2.761	128	2730	10.057	ng/ml#	96
10) Hexachlorobutadiene	2.836	225	524	10.085	ng/ml	99
11) 2-Methylnaphthalene	3.142	142	1670	9.781	ng/ml	99
12) 1-Methylnaphthalene	3.195	142	1627	9.878	ng/ml	99
14) 2-Chloronaphthalene	3.411	162	1728	9.713	ng/ml	99
15) 2,6-Dinitrotoluene	3.611	165	337M4	23.458	ng/ml	
16) Acenaphthylene	3.642	152	2429	9.385	ng/ml	100
18) Acenaphthene	3.739	153	1837M6	9.920	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL4.D
Acq On : 25 Sep 2024 02:29 am
Operator : SV120:mrg
Sample : IL4,32,,10.0ng/mL lot#10892
Misc : WG1976347
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 25 18:06:50 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.848	165	351	25.691	ng/ml#	75
20) Fluorene	4.032	166	1994	9.749	ng/ml	98
23) 4,6-Dinitro-o-cresol	4.079	198	146	32.942	ng/ml#	81
24) Hexachlorobenzene	4.350	284	709	9.902	ng/ml	98
25) Pentachlorophenol	4.469	266	200	12.924	ng/ml	96
26) Phenanthrene	4.572	178	3216M1	10.257	ng/ml	
27) Anthracene	4.603	178	2857M6	9.288	ng/ml	
28) Fluoranthene	5.254	202	3462	9.535	ng/ml	99
29) Pyrene	5.384	202	3661	9.535	ng/ml	100
32) Benzo[a]anthracene	6.102	228	7776	9.526	ng/ml#	86
33) 3,3'-Dichlorobenzene	6.097	252	1099	7.737	ng/ml#	1
34) Chrysene	6.119	228	3592	9.544	ng/ml	95
35) Bis(2-ethylhexyl)phtha...	6.136	149	1964	32.406	ng/ml	98
37) Benzo[b]fluoranthene	6.866	252	3433	9.317	ng/ml	99
38) Benzo[k]fluoranthene	6.890	252	3408M4	9.427	ng/ml	
39) Benzo[a]pyrene	7.141	252	2867	9.089	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.324	276	2713M6	8.747	ng/ml	
41) Dibenzo[a,h]anthracene	8.357	278	2704M6	9.226	ng/ml	
42) Benzo[g,h,i]perylene	8.636	276	2909	9.244	ng/ml	99

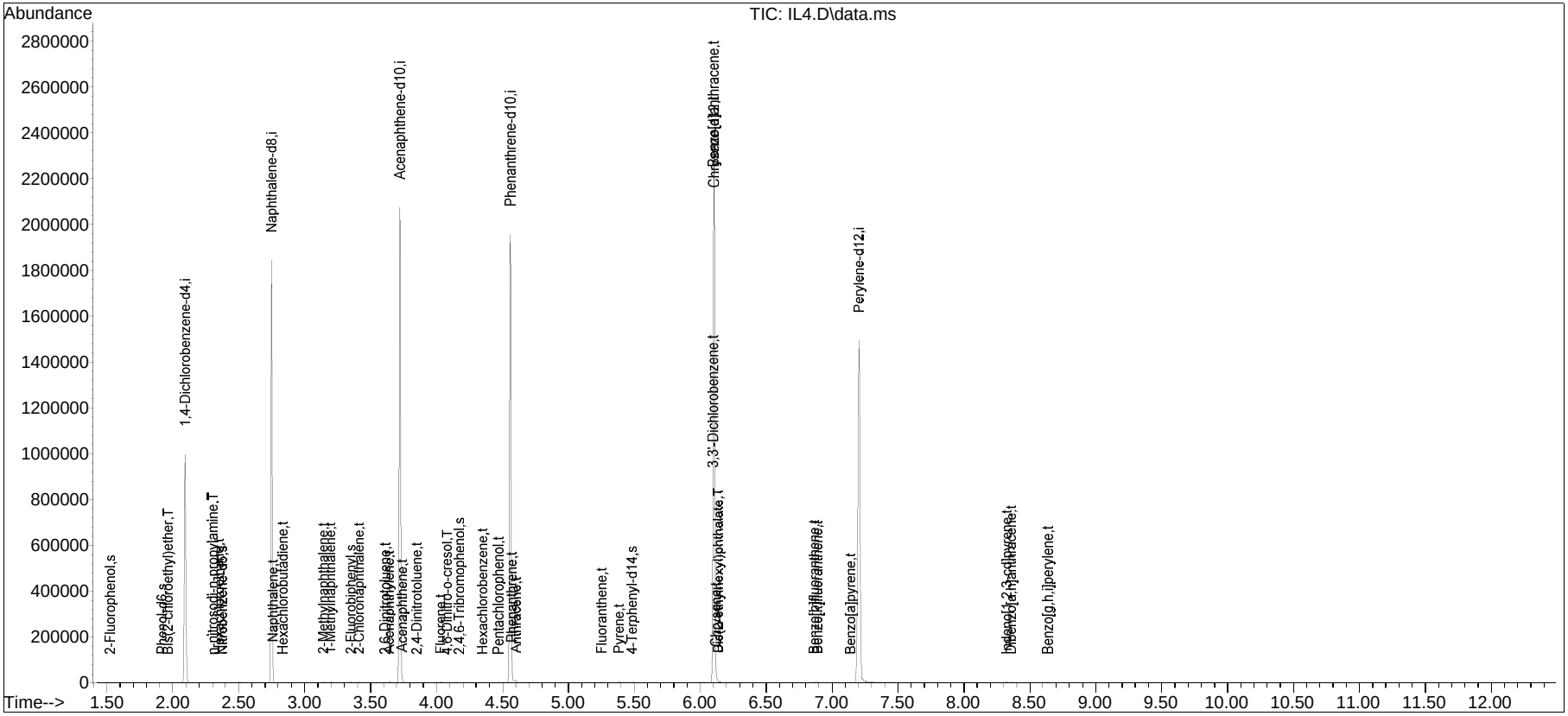
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL4.D
Acq On : 25 Sep 2024 02:29 am
Operator : SV120:mrg
Sample : IL4,32,,10.0ng/mL lot#10892
Misc : WG1976347
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 25 18:06:50 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

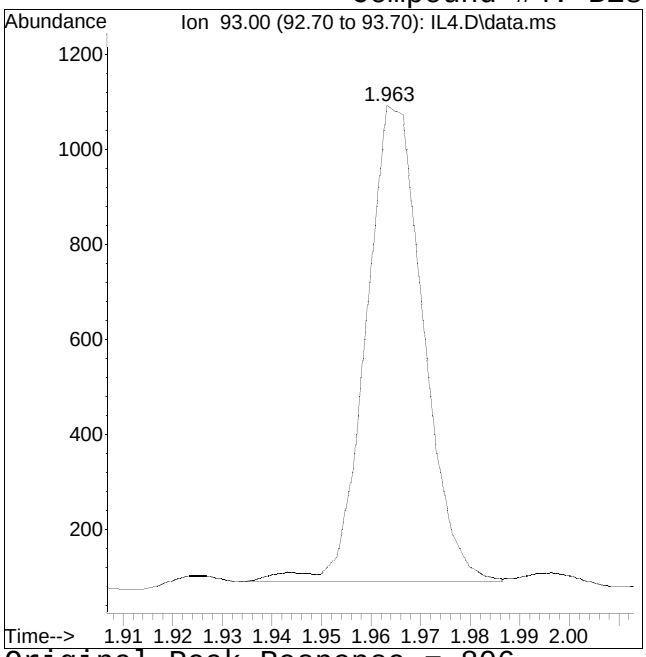
Sub List : Default - All compounds listedical\IL8.D•



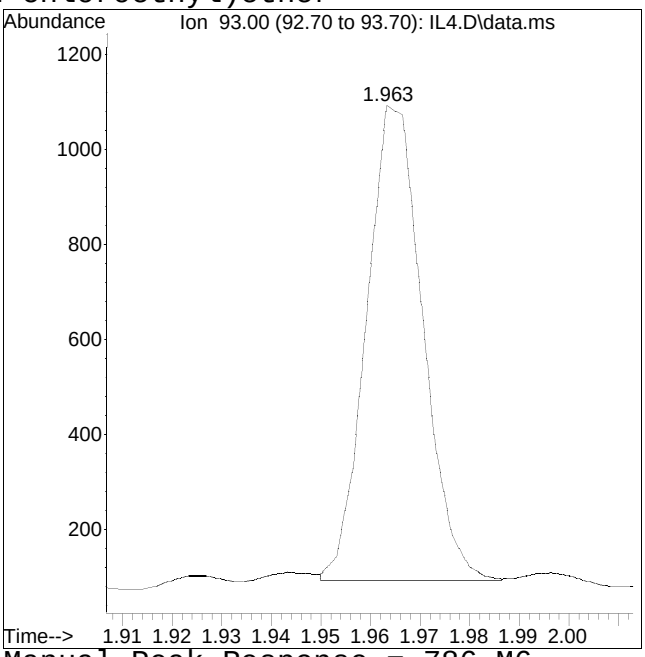
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL4.D
Date Inj'd : 9/25/2024 2:29 am
Sample : IL4,32,,10.0ng/mL lot#1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 806



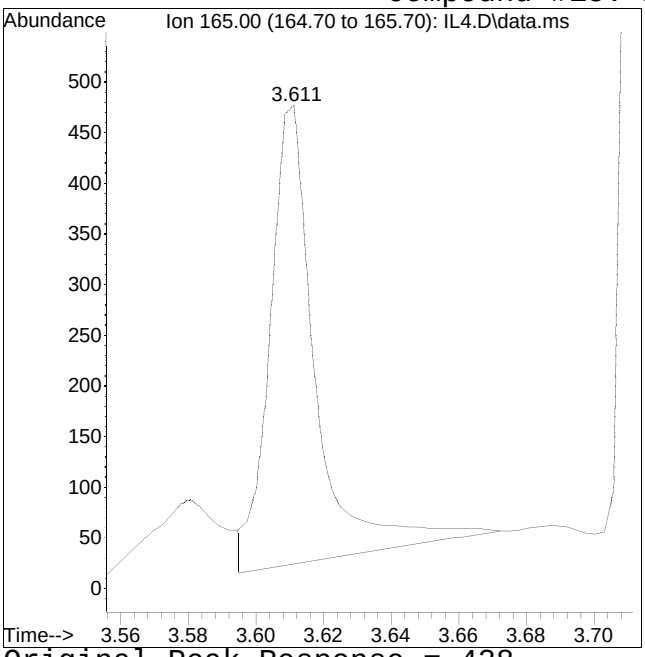
Manual Peak Response = 786 M6

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

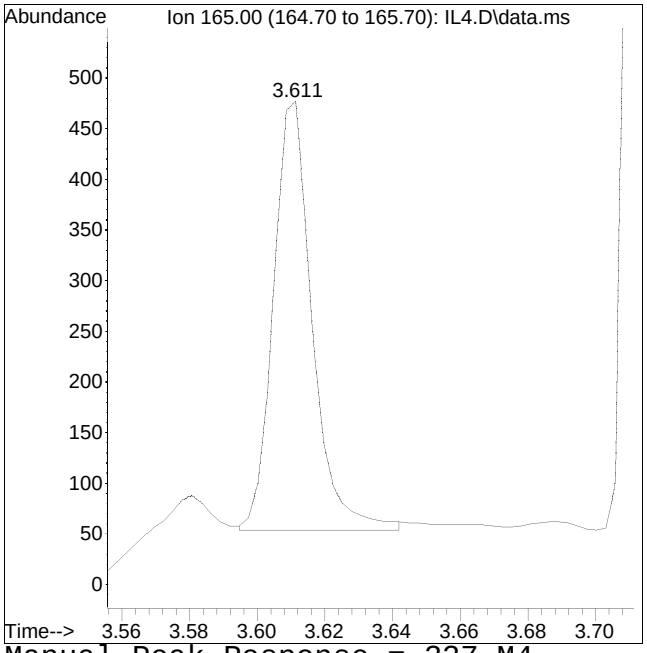
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL4.D
Date Inj'd : 9/25/2024 2:29 am
Sample : IL4,32,,10.0ng/mL lot#1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 428



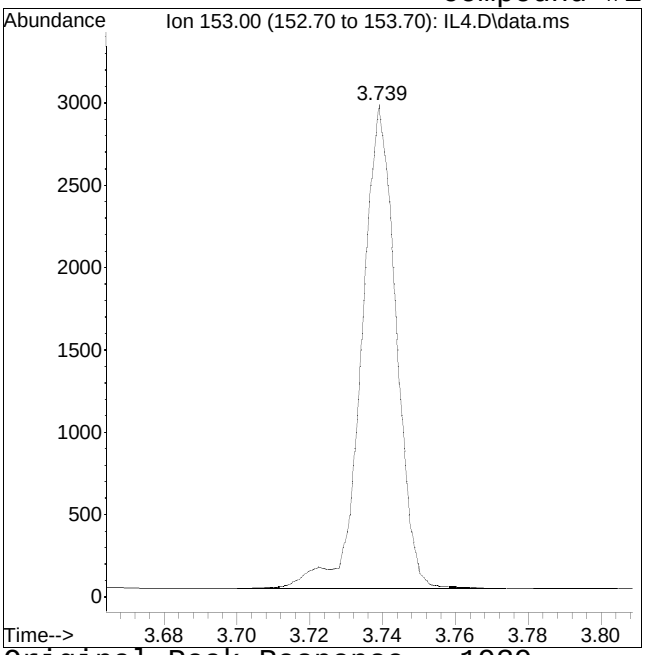
Manual Peak Response = 337 M4

M4 = Poor automated baseline construction.

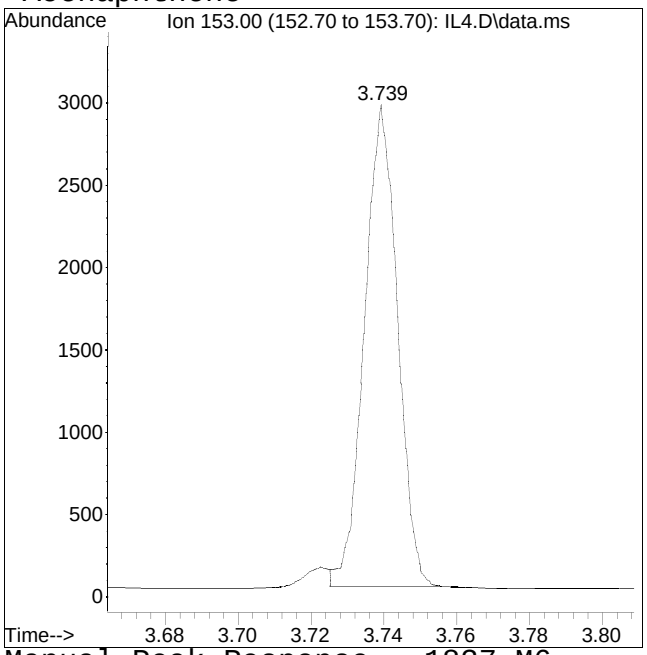
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL4.D
Date Inj'd : 9/25/2024 2:29 am
Sample : IL4,32,,10.0ng/mL lot#1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #18: Acenaphthene



Original Peak Response = 1939



Manual Peak Response = 1837 M6

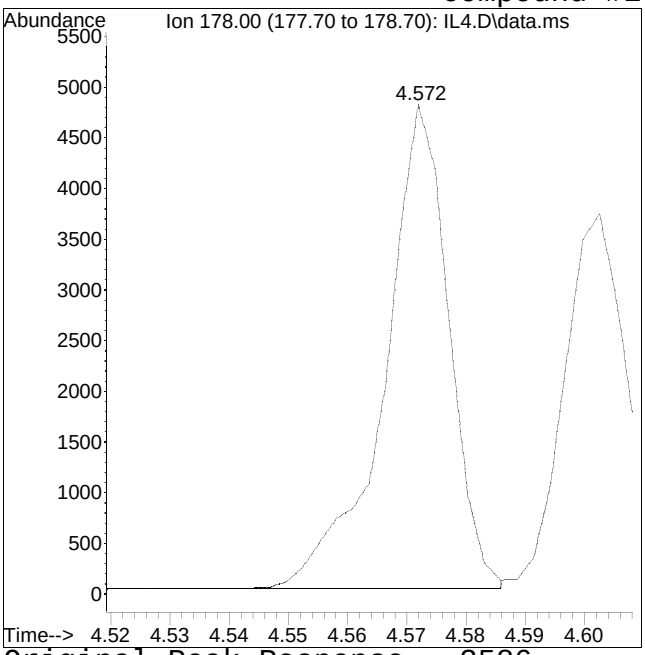
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

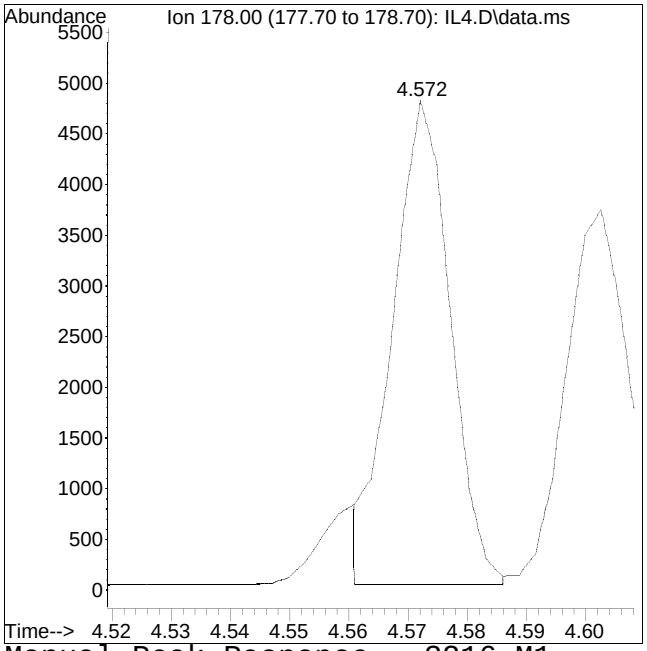
Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL4.D
Date Inj'd : 9/25/2024 2:29 am
Sample : IL4,32,,10.0ng/mL lot#1089

Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #26: Phenanthrene



Original Peak Response = 3586



Manual Peak Response = 3216 M1

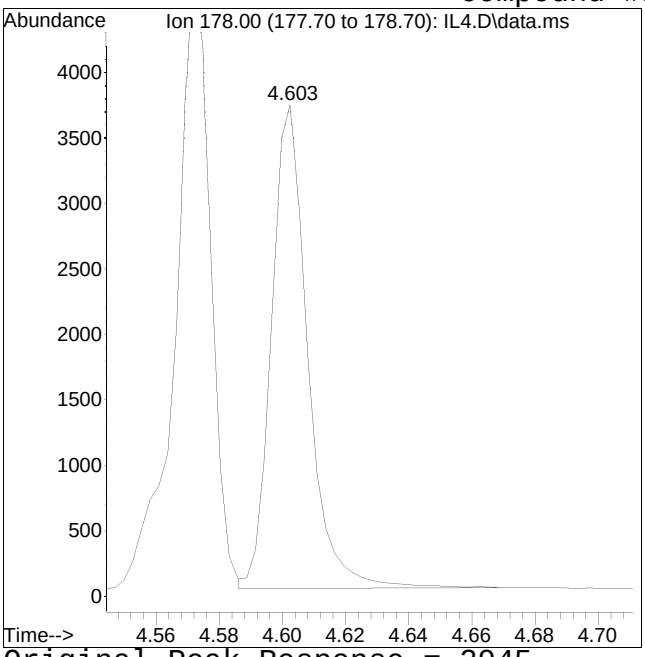
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

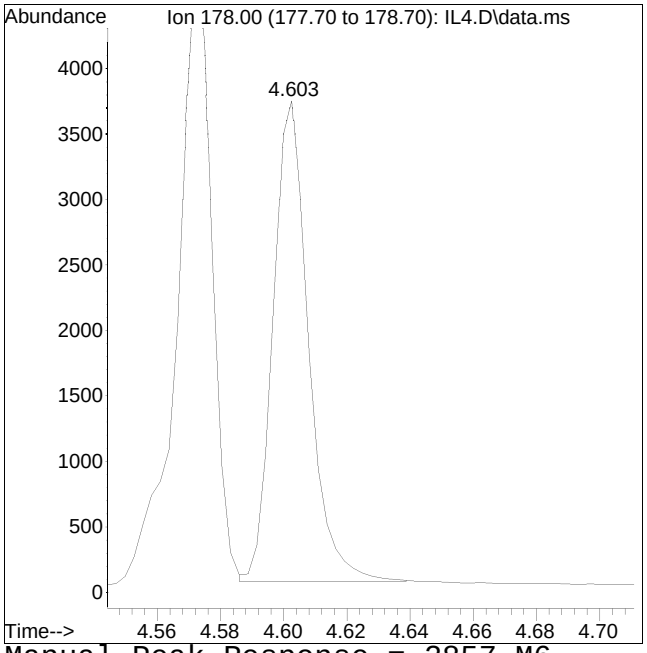
Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL4.D
Date Inj'd : 9/25/2024 2:29 am
Sample : IL4,32,,10.0ng/mL lot#1089

Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #27: Anthracene



Original Peak Response = 2945



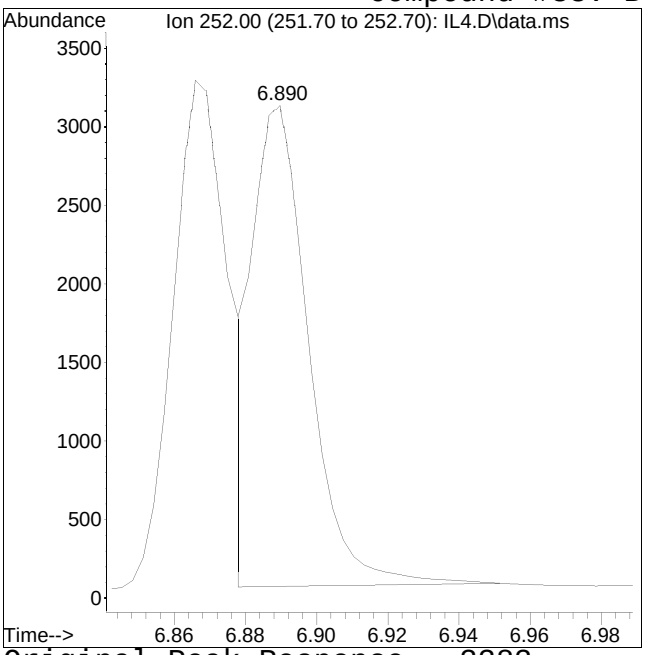
Manual Peak Response = 2857 M6

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

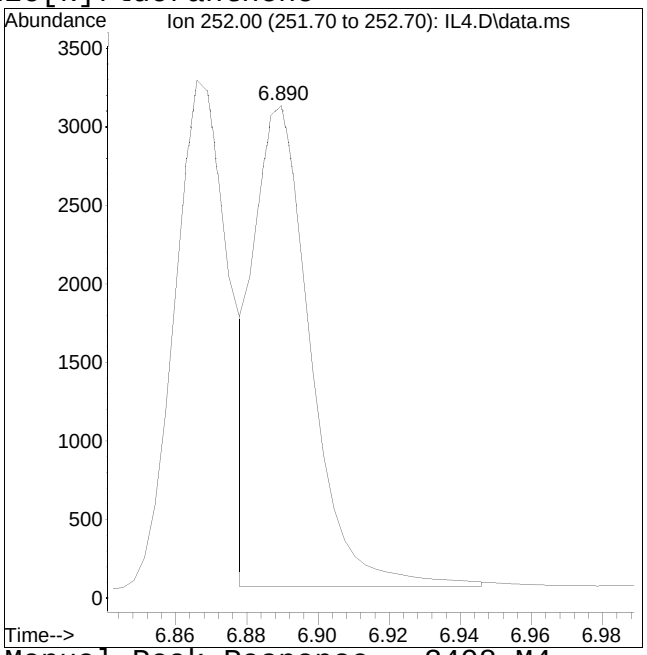
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL4.D
Date Inj'd : 9/25/2024 2:29 am
Sample : IL4,32,,10.0ng/mL lot#1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 3383



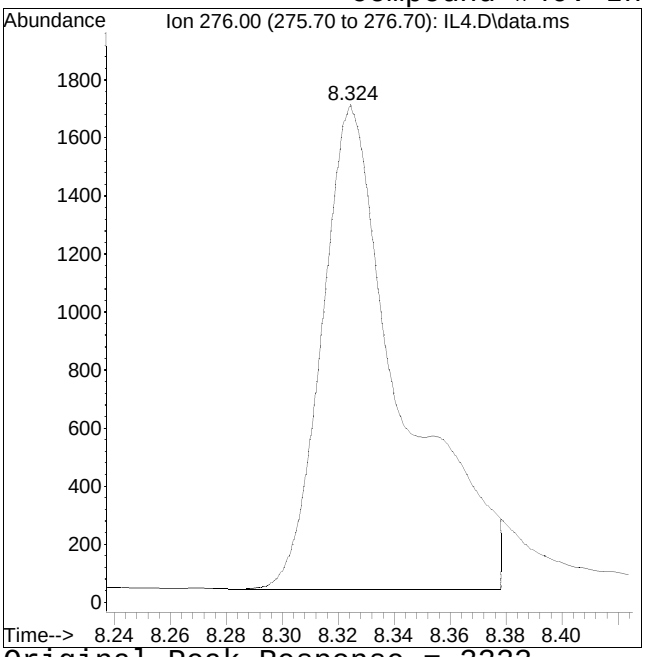
Manual Peak Response = 3408 M4

M4 = Poor automated baseline construction.

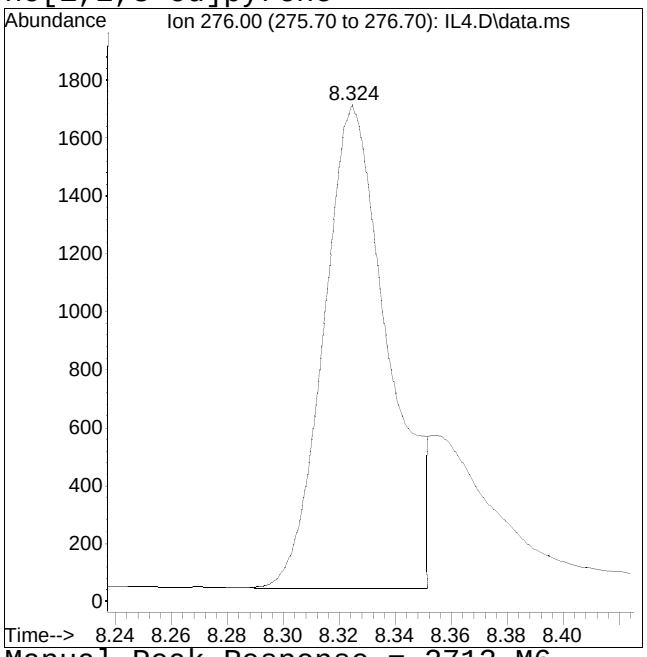
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL4.D
Date Inj'd : 9/25/2024 2:29 am
Sample : IL4,32,,10.0ng/mL lot#1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 3333



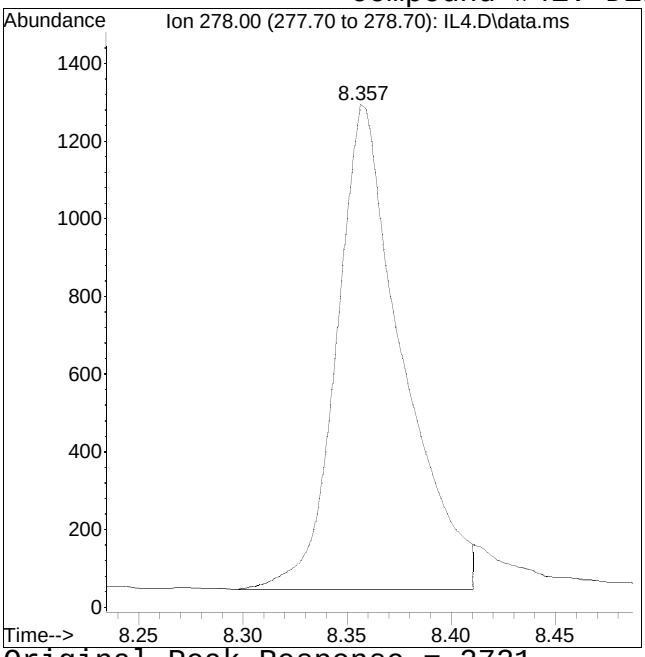
Manual Peak Response = 2713 M6

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

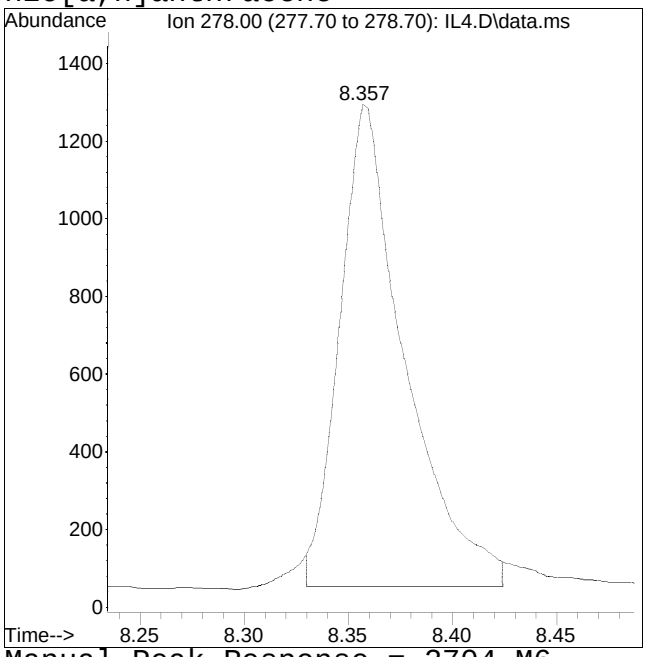
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL4.D
Date Inj'd : 9/25/2024 2:29 am
Sample : IL4,32,,10.0ng/mL lot#1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 2721



Manual Peak Response = 2704 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL3.D
Acq On : 25 Sep 2024 02:45 am
Operator : SV120:mrg
Sample : IL3,32,,5.0ng/mL lot# 10893
Misc : WG1976347
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 25 18:06:45 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.092	152	315427	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 100.55%			
8) Naphthalene-d8	2.750	136	1171081	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 98.82%			
17) Acenaphthene-d10	3.722	164	666477	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 98.84%			
22) Phenanthrene-d10	4.561	188	1341247	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 97.82%			
31) Chrysene-d12	6.099	240	1352874	4000.000	ng/ml	-0.01
Standard Area 1 = 1370492			Recovery = 98.71%			
36) Perylene-d12	7.197	264	1338167	4000.000	ng/ml	0.00
Standard Area 1 = 1438322			Recovery = 93.04%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.531	112	434	4.976	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.25%#			
3) Phenol-d6	1.920	99	493	4.816	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.24%#			
7) Nitrobenzene-d5	2.379	82	399	4.611	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.46%#			
13) 2-Fluorobiphenyl	3.351	172	1111	4.997	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.50%#			
21) 2,4,6-Tribromophenol	4.172	330	120	4.025	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.20%#			
30) 4-Terphenyl-d14	5.486	244	1160	4.938	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.25%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.966	93	451	5.026	ng/ml	97
5) n-nitrosodi-n-propylamine	2.301	70	285	4.694	ng/ml	97
6) Hexachloroethane	2.348	117	200	5.179	ng/ml	94
9) Naphthalene	2.761	128	1509M4	5.169	ng/ml	
10) Hexachlorobutadiene	2.836	225	294	5.262	ng/ml	94
11) 2-Methylnaphthalene	3.142	142	881	4.798	ng/ml	96
12) 1-Methylnaphthalene	3.198	142	891	5.030	ng/ml	95
14) 2-Chloronaphthalene	3.414	162	945	4.939	ng/ml	99
15) 2,6-Dinitrotoluene	0.000		0	N.D. d		
16) Acenaphthylene	3.642	152	1311	4.710	ng/ml	99
18) Acenaphthene	3.739	153	1022M6	5.132	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL3.D
Acq On : 25 Sep 2024 02:45 am
Operator : SV120:mrg
Sample : IL3,32,,5.0ng/mL lot# 10893
Misc : WG1976347
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 25 18:06:45 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	4.035	166	1076	4.892	ng/ml	99
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.349	284	380	4.928	ng/ml	96
25) Pentachlorophenol	4.469	266	131M6	10.117	ng/ml	
26) Phenanthrene	4.572	178	1728M6	5.118	ng/ml	
27) Anthracene	4.602	178	1605M6	4.845	ng/ml	
28) Fluoranthene	5.257	202	1892	4.839	ng/ml	98
29) Pyrene	5.383	202	2001	4.839	ng/ml	100
32) Benzo[a]anthracene	6.099	228	6225M6	5.314	ng/ml	
33) 3,3'-Dichlorobenzene	0.000		0	N.D.	d	
34) Chrysene	6.114	228	1617M3	4.218	ng/ml	
35) Bis(2-ethylhexyl)phtha...	6.131	149	1264	29.456	ng/ml	99
37) Benzo[b]fluoranthene	6.862	252	1726	4.671	ng/ml	99
38) Benzo[k]fluoranthene	6.886	252	1750M4	4.827	ng/ml	
39) Benzo[a]pyrene	7.138	252	1427	4.511	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.324	276	1356M6	4.360	ng/ml	
41) Dibenzo[a,h]anthracene	8.359	278	1323M4	4.501	ng/ml	
42) Benzo[g,h,i]perylene	8.633	276	1422	4.506	ng/ml	100

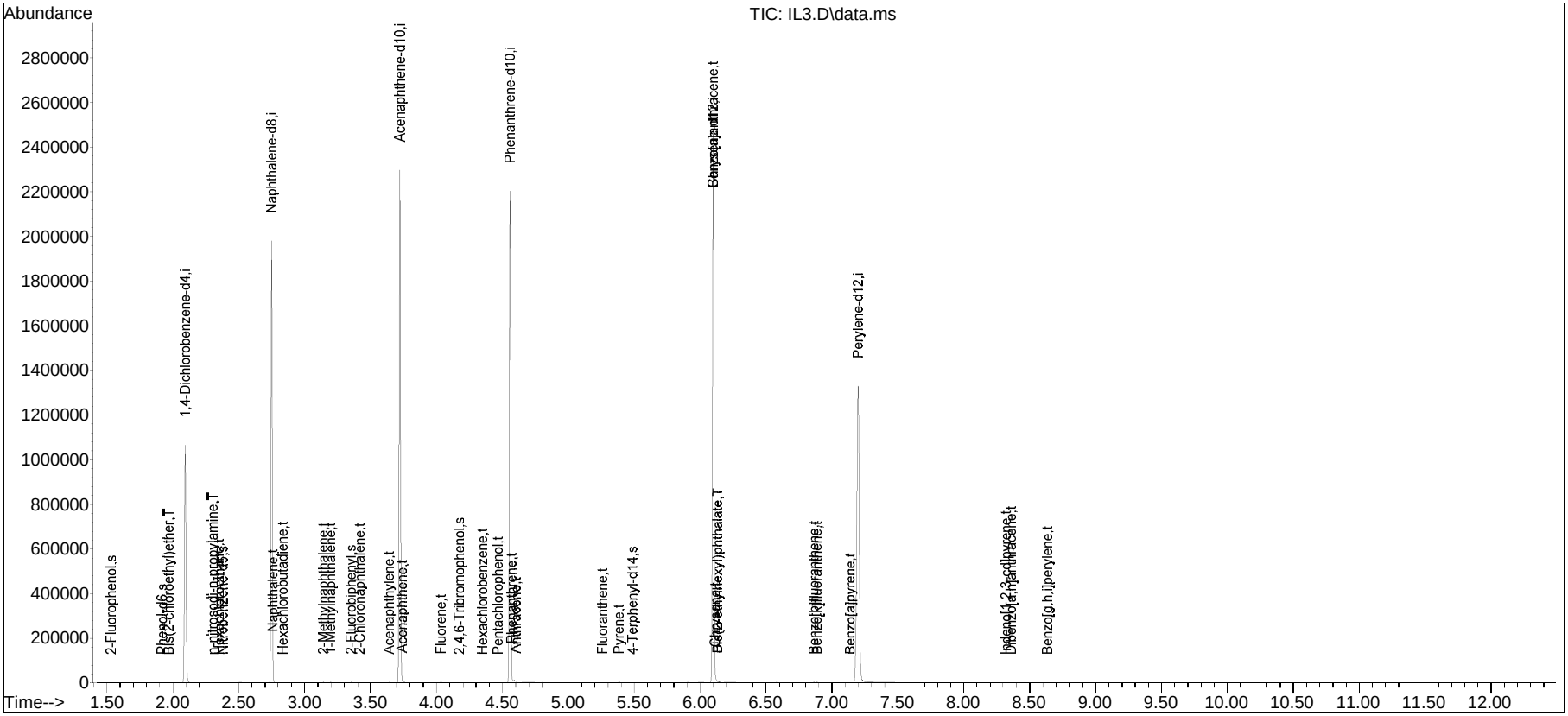
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL3.D
Acq On : 25 Sep 2024 02:45 am
Operator : SV120:mrg
Sample : IL3,32,,5.0ng/mL lot# 10893
Misc : WG1976347
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 25 18:06:45 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

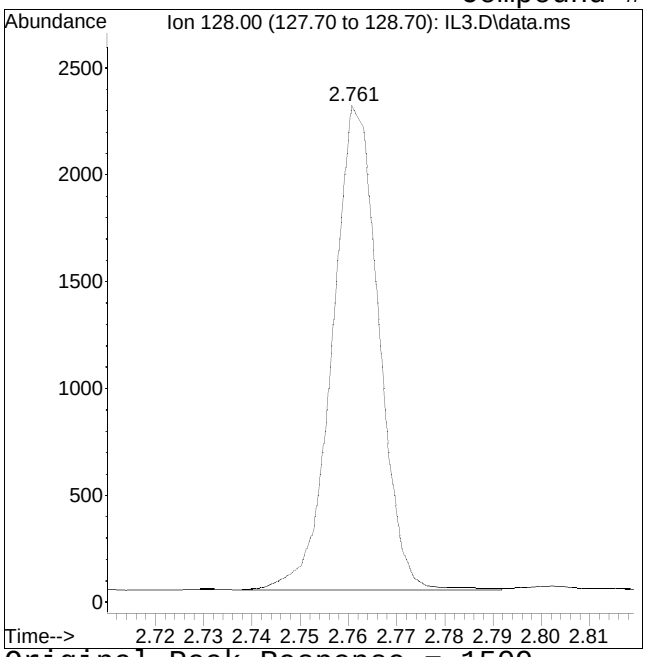
Sub List : Default - All compounds listedical\IL8.D•



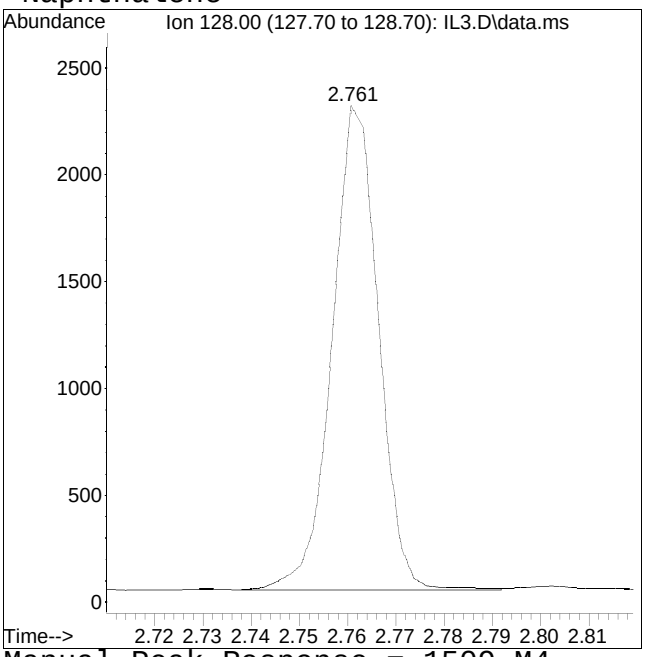
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #9: Naphthalene



Original Peak Response = 1509



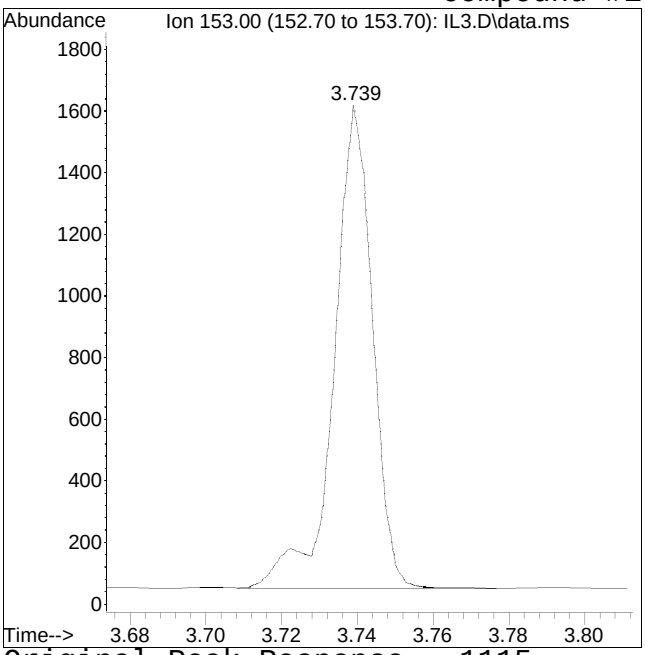
Manual Peak Response = 1509 M4

M4 = Poor automated baseline construction.

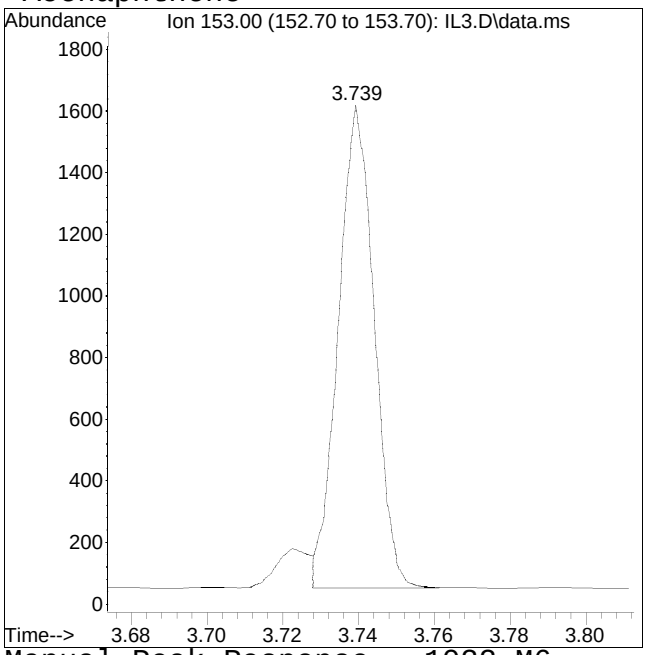
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #18: Acenaphthene



Original Peak Response = 1115



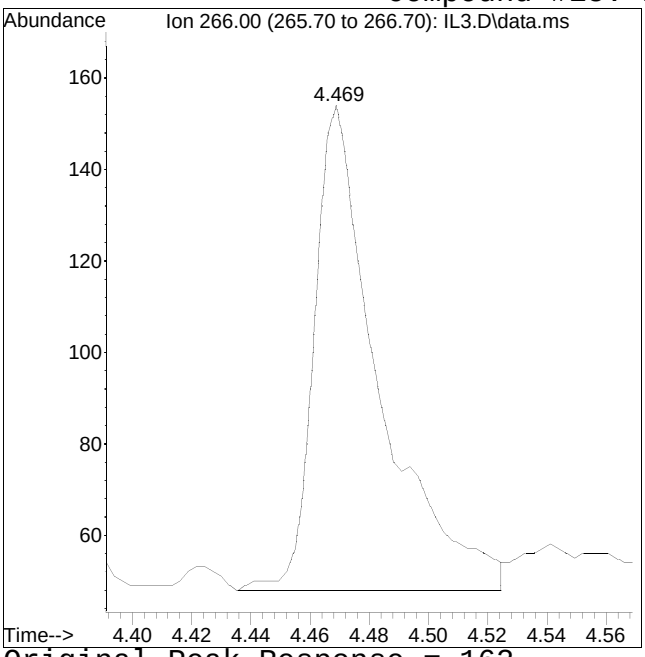
Manual Peak Response = 1022 M6

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

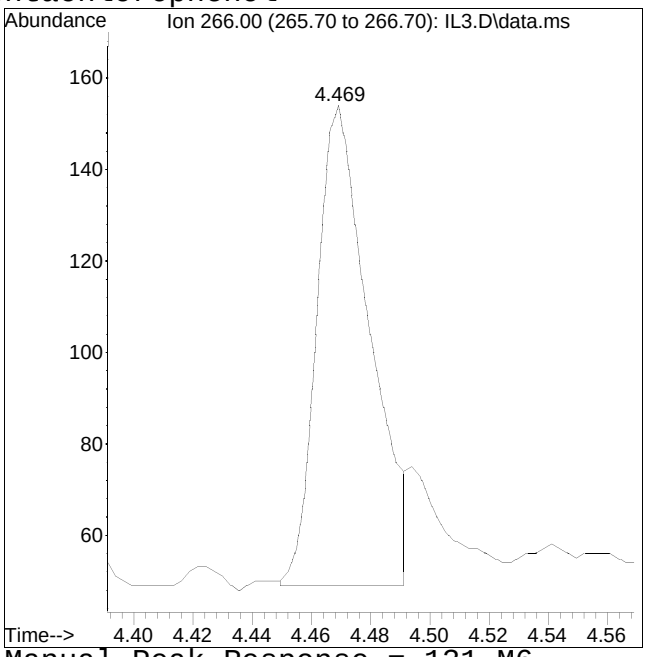
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #25: Pentachlorophenol



Original Peak Response = 162



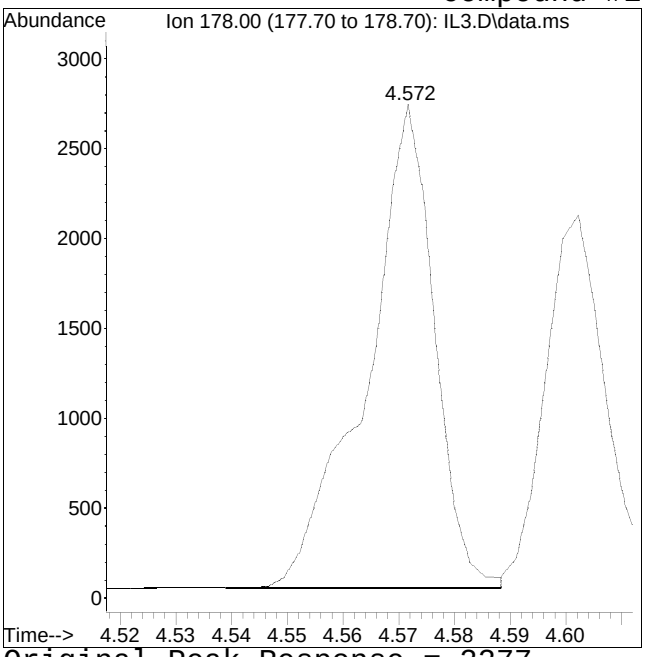
Manual Peak Response = 131 M6

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

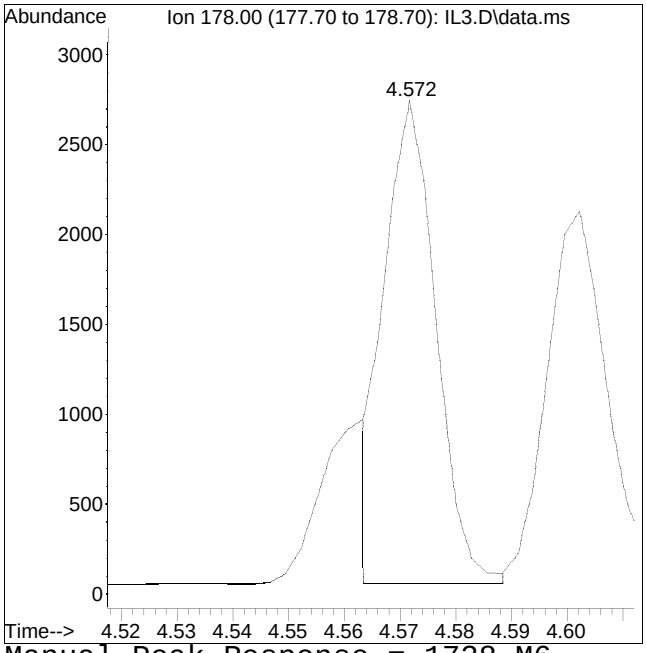
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #26: Phenanthrene



Original Peak Response = 2277



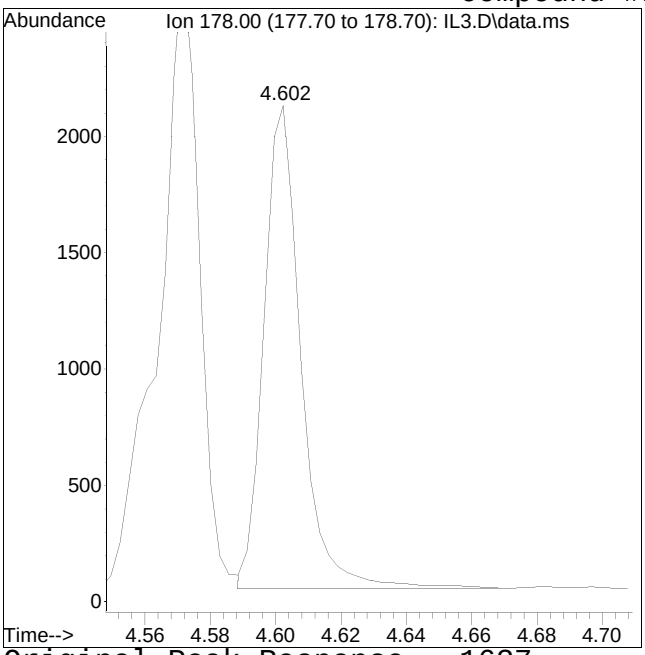
Manual Peak Response = 1728 M6

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

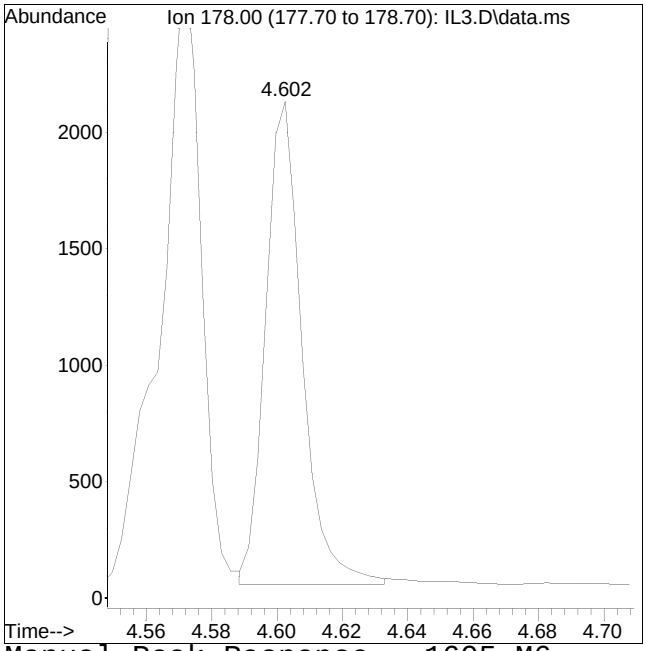
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #27: Anthracene



Original Peak Response = 1637



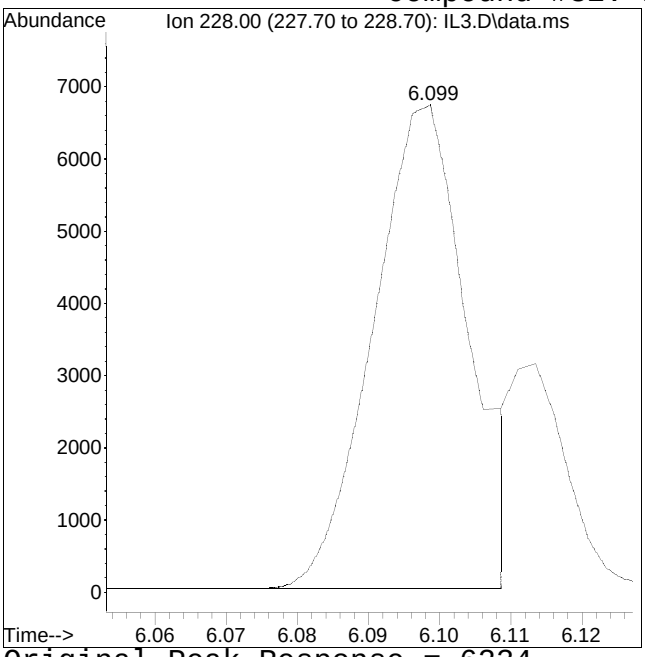
Manual Peak Response = 1605 M6

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

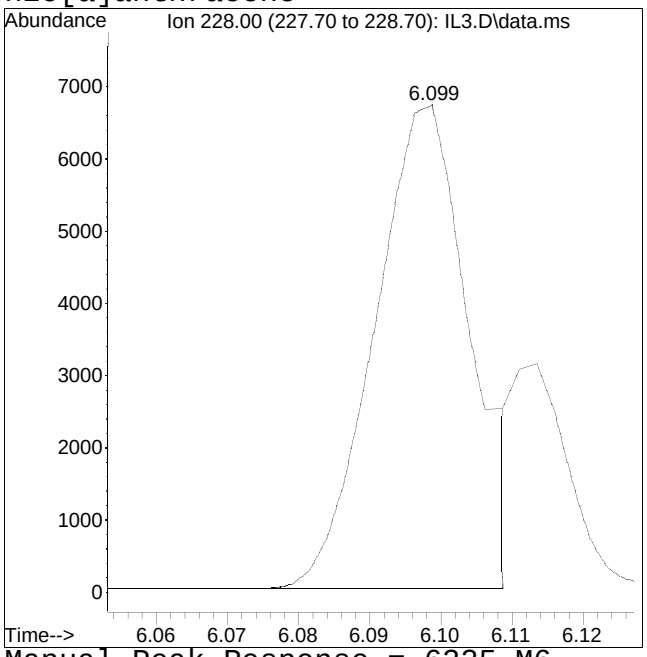
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 6234



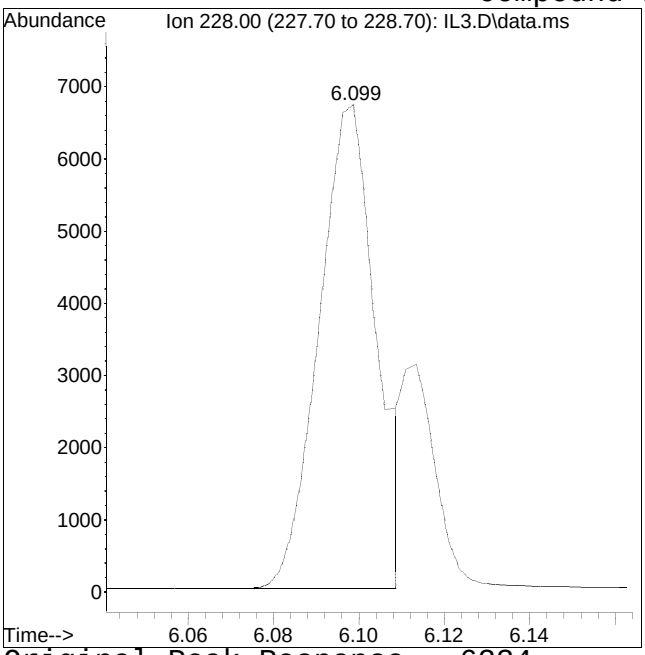
Manual Peak Response = 6225 M6

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

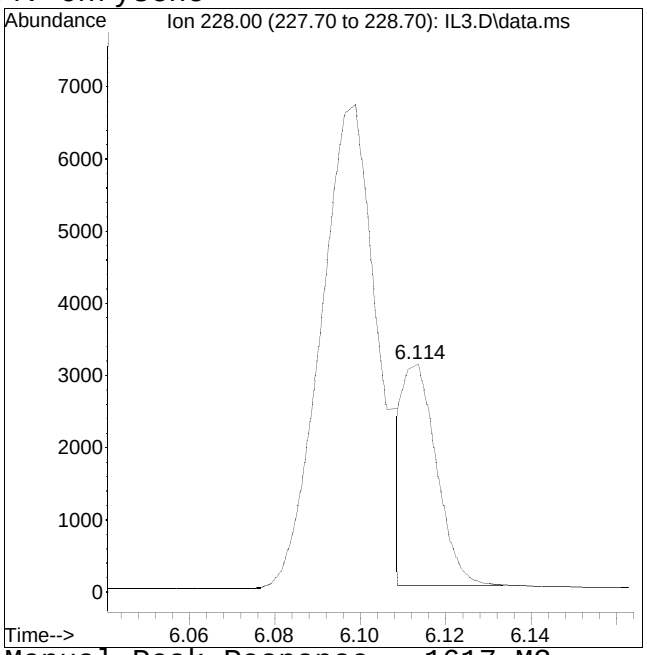
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #34: Chrysene



Original Peak Response = 6234



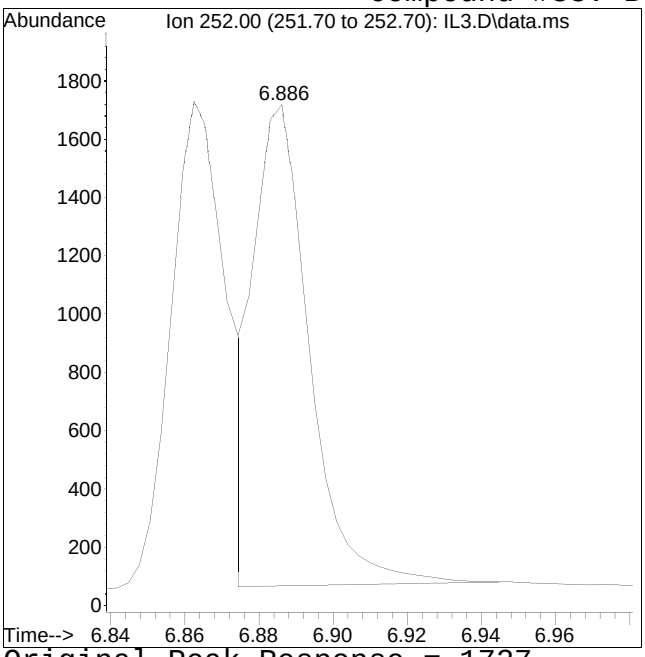
Manual Peak Response = 1617 M3

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

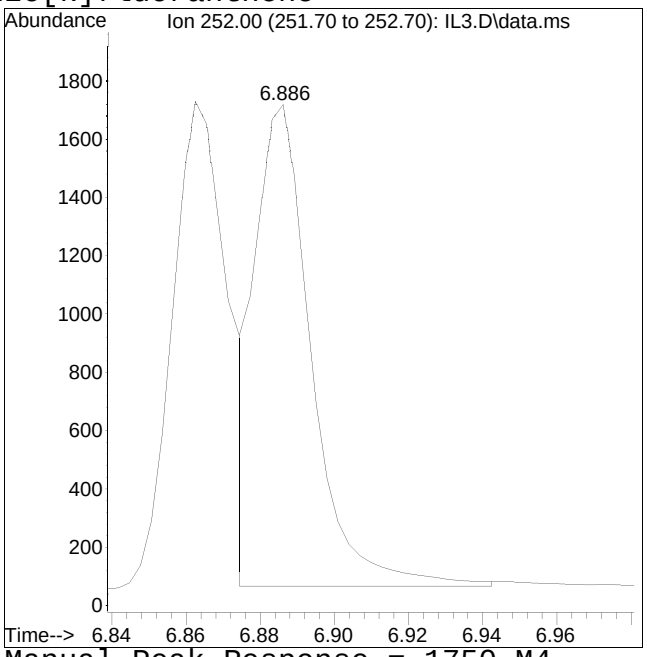
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 1727



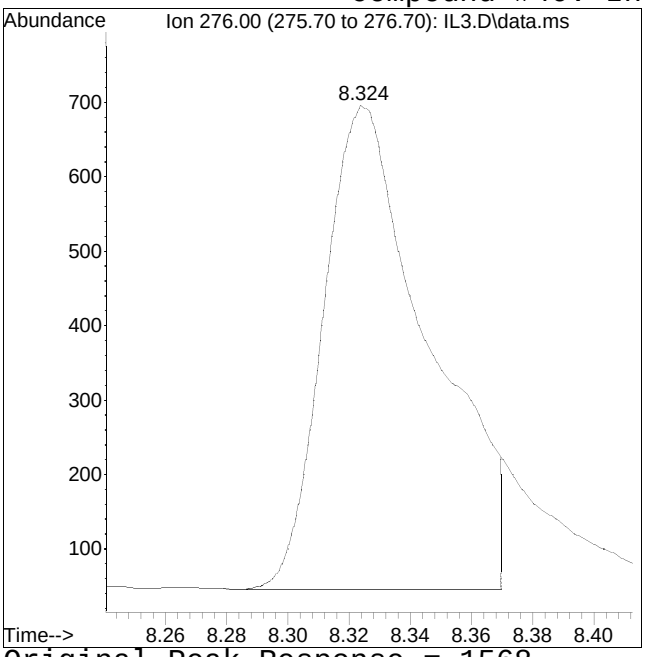
Manual Peak Response = 1750 M4

M4 = Poor automated baseline construction.

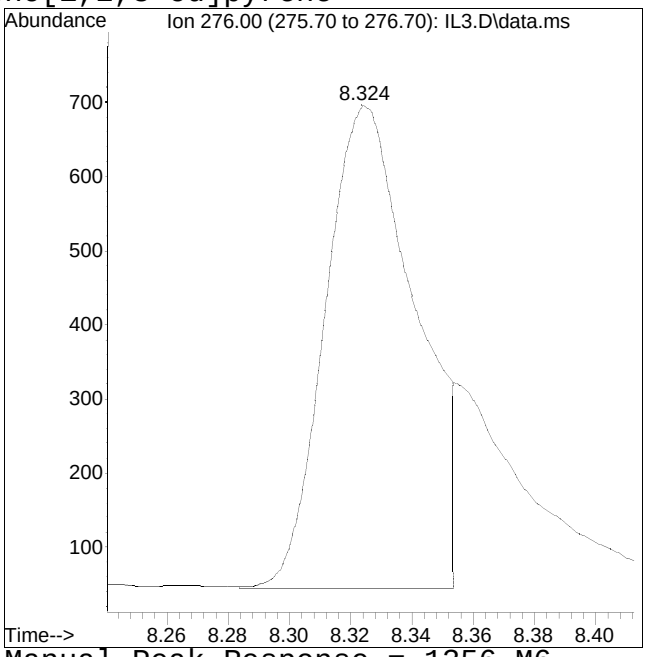
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 1568



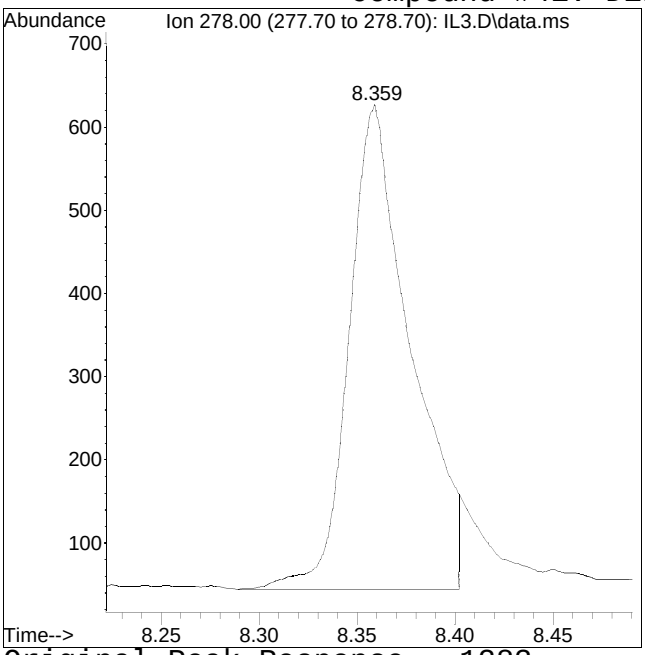
Manual Peak Response = 1356 M6

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

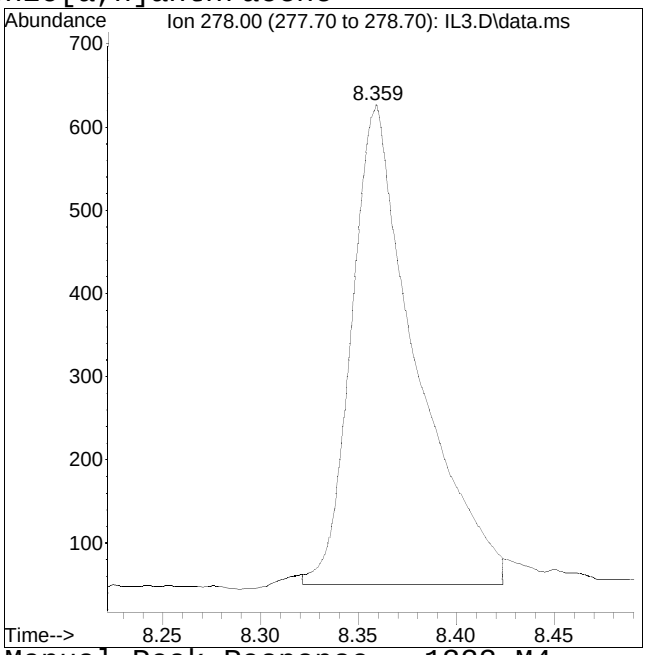
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL3.D
Date Inj'd : 9/25/2024 2:45 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 1283



Manual Peak Response = 1323 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL2.D
Acq On : 25 Sep 2024 03:02 am
Operator : SV120:mrg
Sample : IL2,32,,2.0ng/mL lot# 10900
Misc : WG1976347
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 25 18:06:41 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.096	152	324280	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 103.37%			
8) Naphthalene-d8	2.751	136	1203389	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 101.54%			
17) Acenaphthene-d10	3.724	164	679761	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 100.81%			
22) Phenanthrene-d10	4.559	188	1374775	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 100.26%			
31) Chrysene-d12	6.095	240	1388979	4000.000	ng/ml	-0.01
Standard Area 1 = 1370492			Recovery = 101.35%			
36) Perylene-d12	7.194	264	1371533	4000.000	ng/ml	0.00
Standard Area 1 = 1438322			Recovery = 95.36%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.531	112	177	1.974	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.10%#			
3) Phenol-d6	1.923	99	212	2.014	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.10%#			
7) Nitrobenzene-d5	2.379	82	162	1.821	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.18%#			
13) 2-Fluorobiphenyl	3.353	172	493	2.158	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.22%#			
21) 2,4,6-Tribromophenol	4.176	330	55M6	1.809	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.09%#			
30) 4-Terphenyl-d14	5.485	244	511	2.122	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.11%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.966	93	216	2.341	ng/ml	83
5) n-nitrosodi-n-propylamine	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.764	128	625M4	2.084	ng/ml	
10) Hexachlorobutadiene	2.837	225	117	2.038	ng/ml	90
11) 2-Methylnaphthalene	3.144	142	379	2.009	ng/ml	98
12) 1-Methylnaphthalene	3.197	142	378	2.077	ng/ml	95
14) 2-Chloronaphthalene	3.416	162	401	2.040	ng/ml	99
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
16) Acenaphthylene	3.643	152	559	1.954	ng/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL2.D
Acq On : 25 Sep 2024 03:02 am
Operator : SV120:mrg
Sample : IL2,32,,2.0ng/mL lot# 10900
Misc : WG1976347
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 25 18:06:41 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.740	153	422	2.078	ng/ml	87
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	4.036	166	449	2.001	ng/ml	93
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.351	284	168	2.126	ng/ml	97
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	4.573	178	736M6	2.127	ng/ml	
27) Anthracene	4.601	178	708	2.085	ng/ml	98
28) Fluoranthene	5.257	202	849	2.118	ng/ml	99
29) Pyrene	5.384	202	883	2.083	ng/ml	98
32) Benzo[a]anthracene	6.095	228	4984M6	1.907	ng/ml	
33) 3,3'-Dichlorobenzene	0.000		0	N.D.	d	
34) Chrysene	6.107	228	724M3	1.840	ng/ml	
35) Bis(2-ethylhexyl)phtha...	6.124	149	751	27.323	ng/ml	98
37) Benzo[b]fluoranthene	6.860	252	701	1.851	ng/ml	98
38) Benzo[k]fluoranthene	6.881	252	756M1	2.035	ng/ml	
39) Benzo[a]pyrene	7.132	252	606	1.869	ng/ml	98
40) Indeno[1,2,3-cd]pyrene	8.324	276	570M6	1.788	ng/ml	
41) Dibenzo[a,h]anthracene	8.356	278	546M4	1.813	ng/ml	
42) Benzo[g,h,i]perylene	8.633	276	578	1.787	ng/ml	98

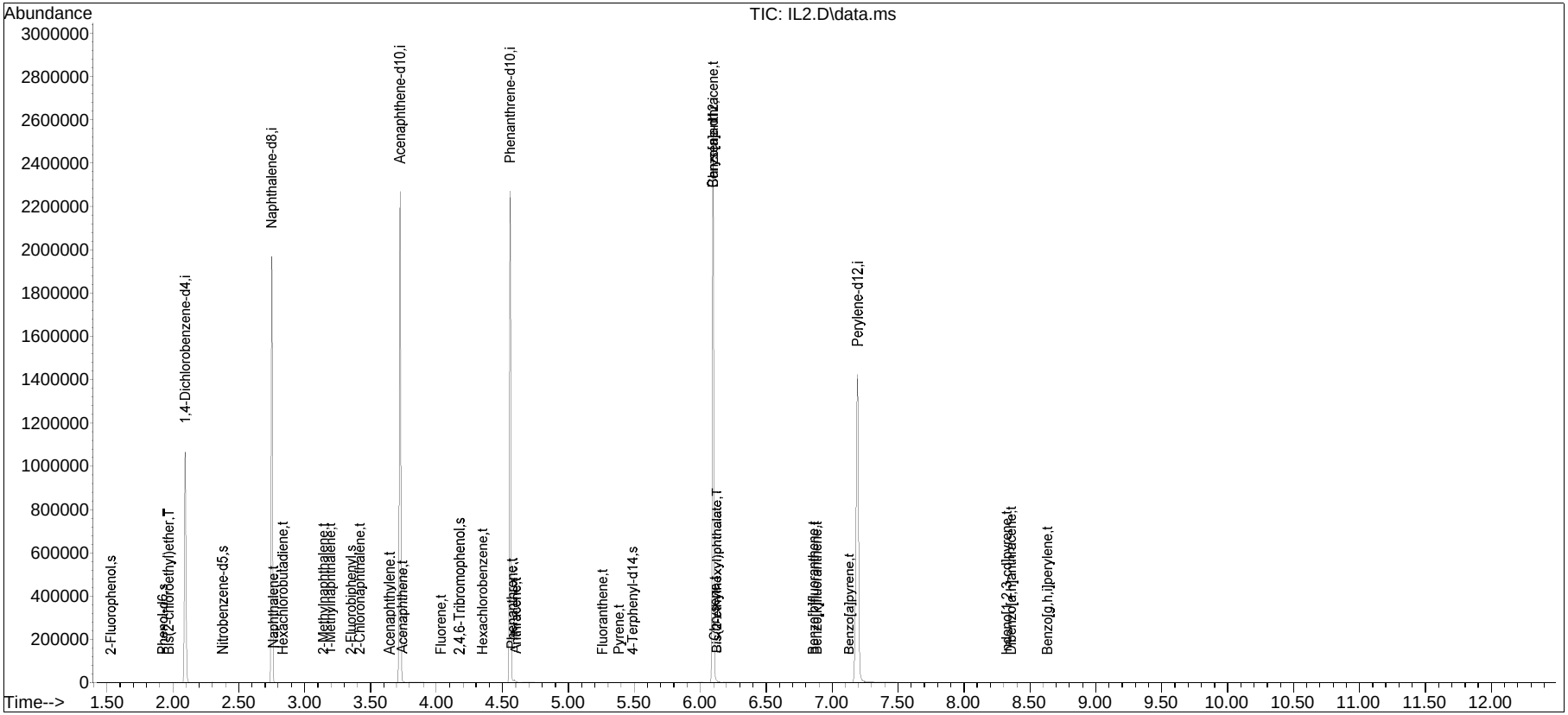
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL2.D
Acq On : 25 Sep 2024 03:02 am
Operator : SV120:mrg
Sample : IL2,32,,2.0ng/mL lot# 10900
Misc : WG1976347
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 25 18:06:41 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

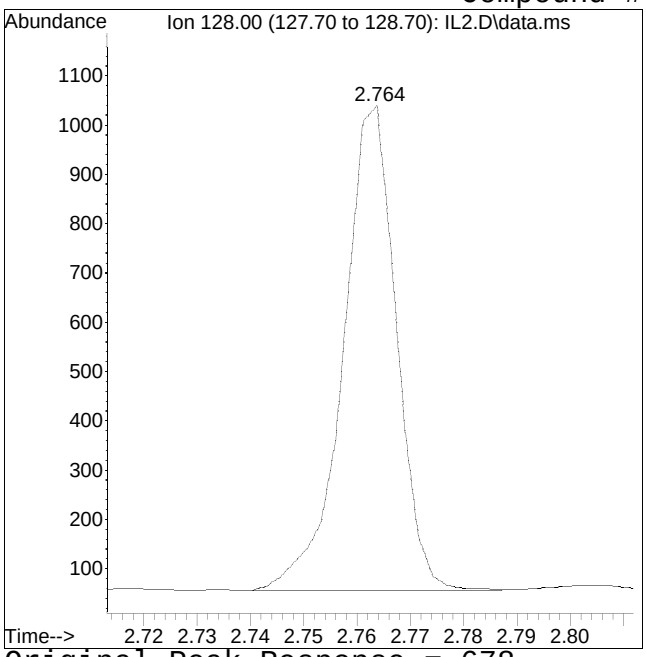
Sub List : Default - All compounds listedical\IL8.D•



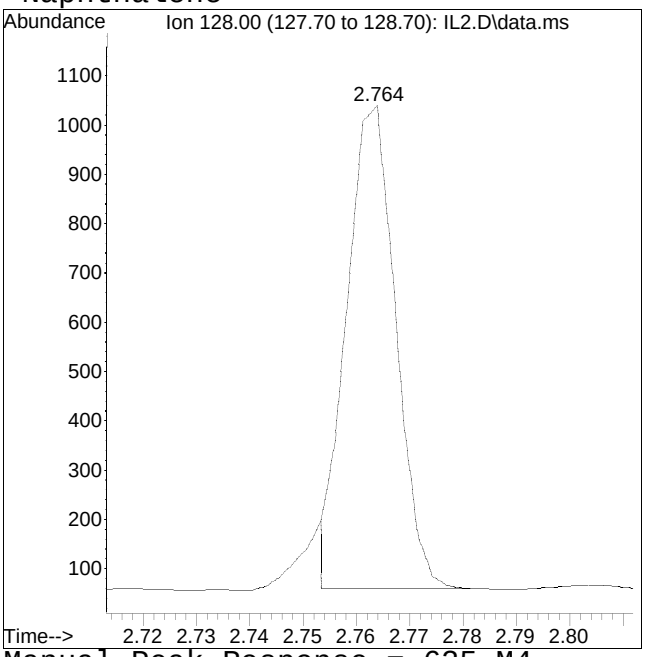
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL2.D
Date Inj'd : 9/25/2024 3:02 am
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #9: Naphthalene



Original Peak Response = 678



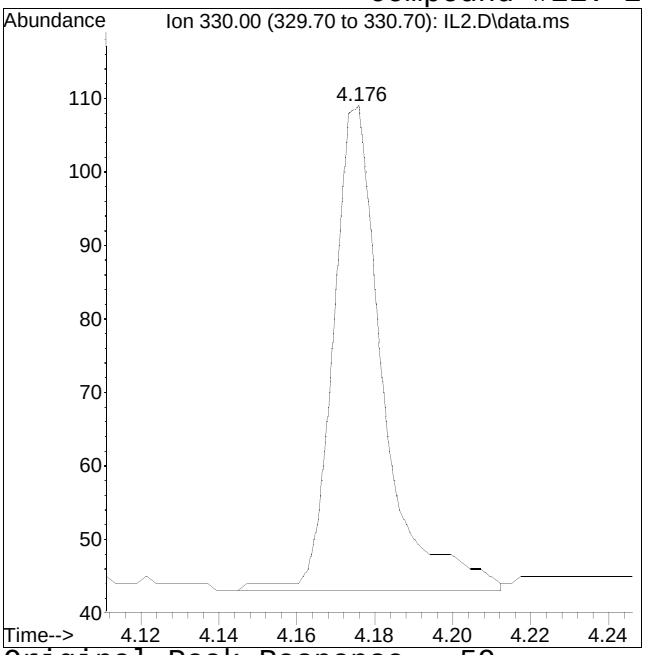
Manual Peak Response = 625 M4

M4 = Poor automated baseline construction.

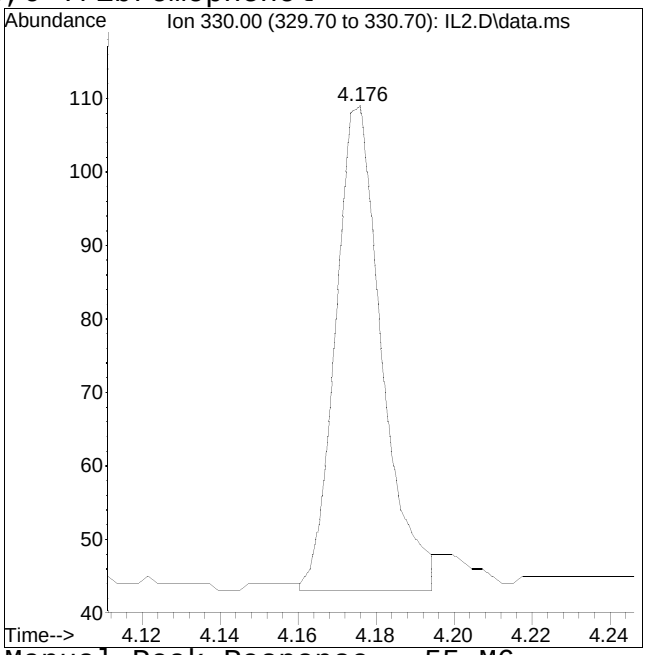
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL2.D
Date Inj'd : 9/25/2024 3:02 am
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #21: 2,4,6-Tribromophenol



Original Peak Response = 59



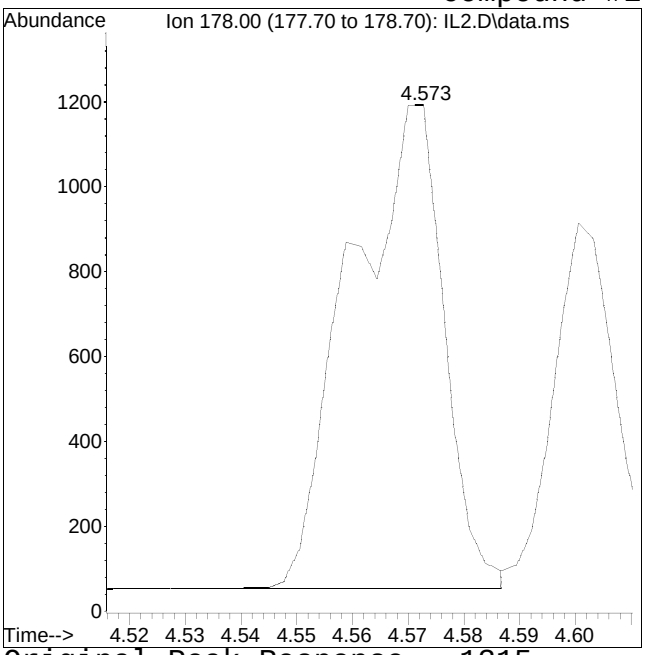
Manual Peak Response = 55 M6

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

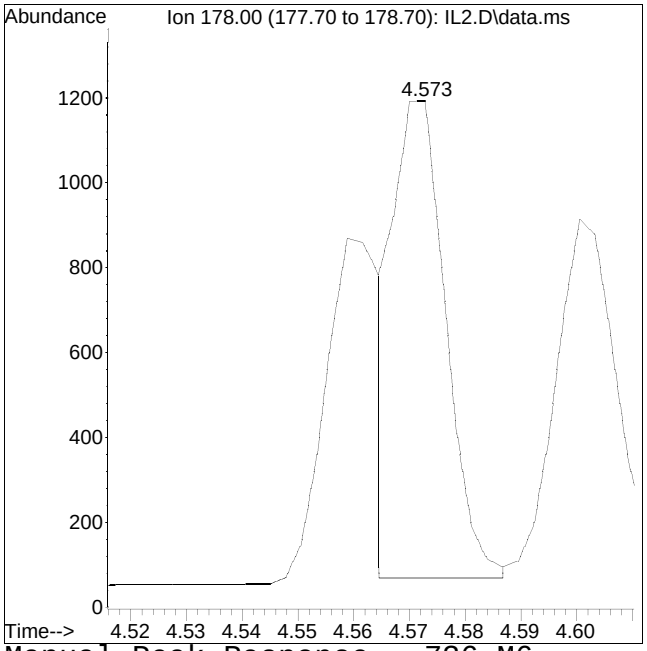
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL2.D
Date Inj'd : 9/25/2024 3:02 am
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #26: Phenanthrene



Original Peak Response = 1315



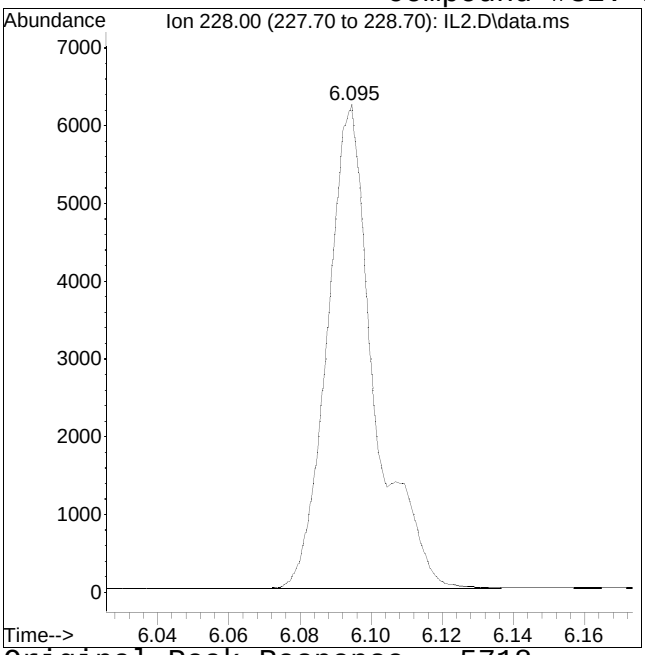
Manual Peak Response = 736 M6

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

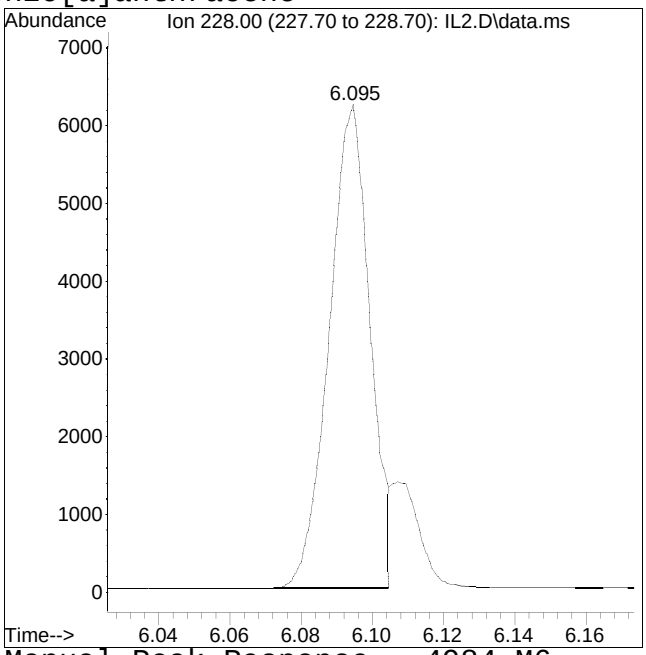
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL2.D
Date Inj'd : 9/25/2024 3:02 am
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 5718



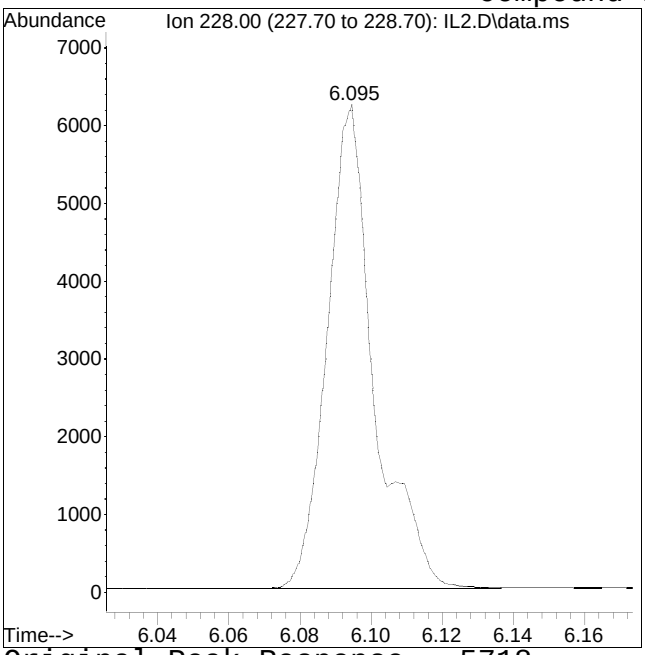
Manual Peak Response = 4984 M6

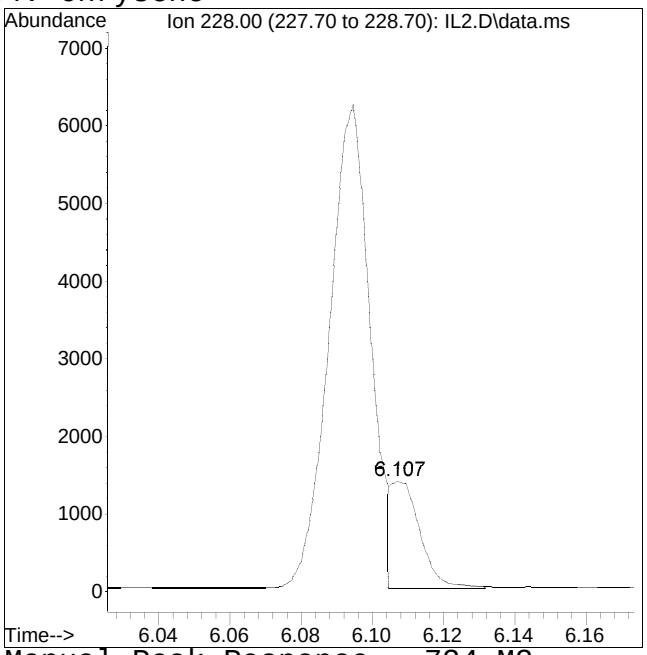
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL2.D
Date Inj'd : 9/25/2024 3:02 am
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #34: Chrysene





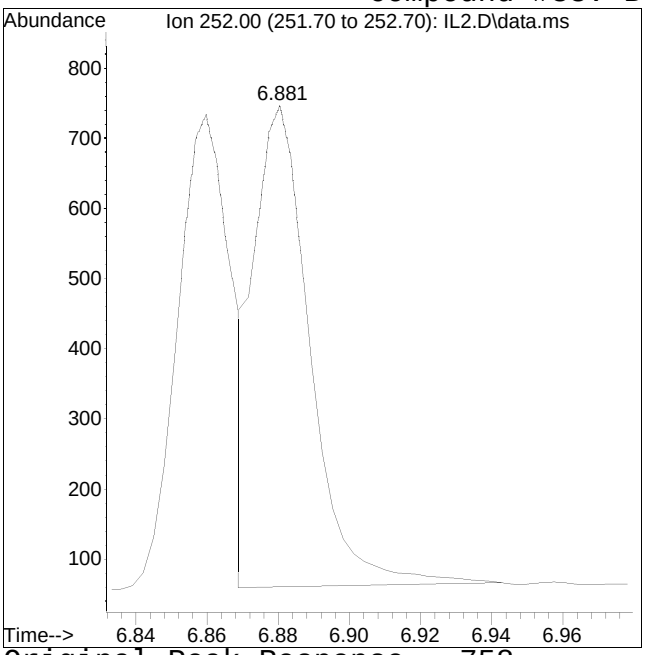
Original Peak Response = 5718 Manual Peak Response = 724 M3

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

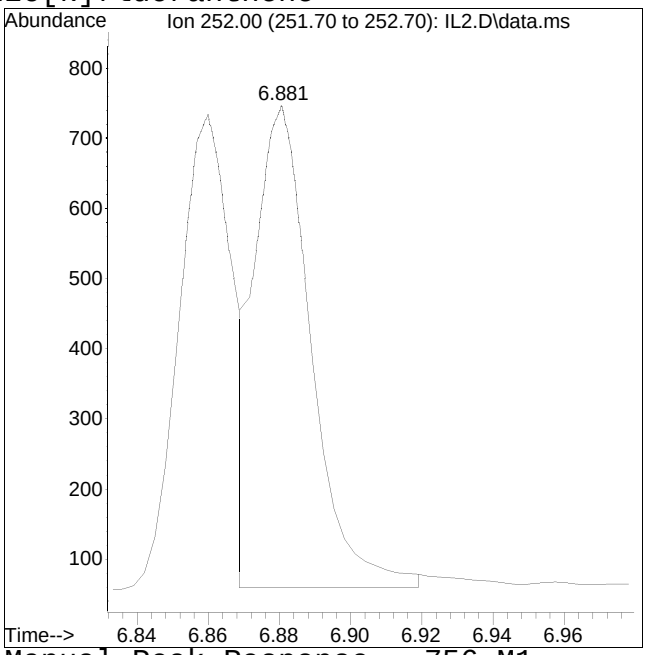
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL2.D
Date Inj'd : 9/25/2024 3:02 am
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 758



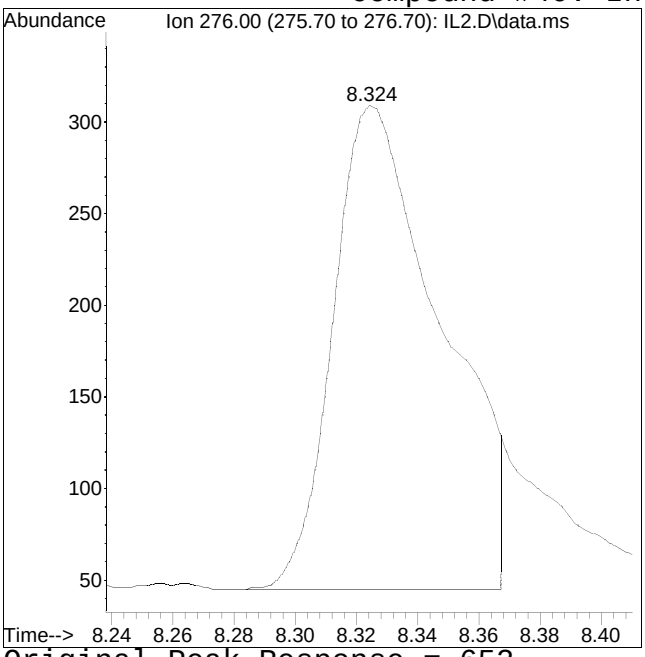
Manual Peak Response = 756 M1

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

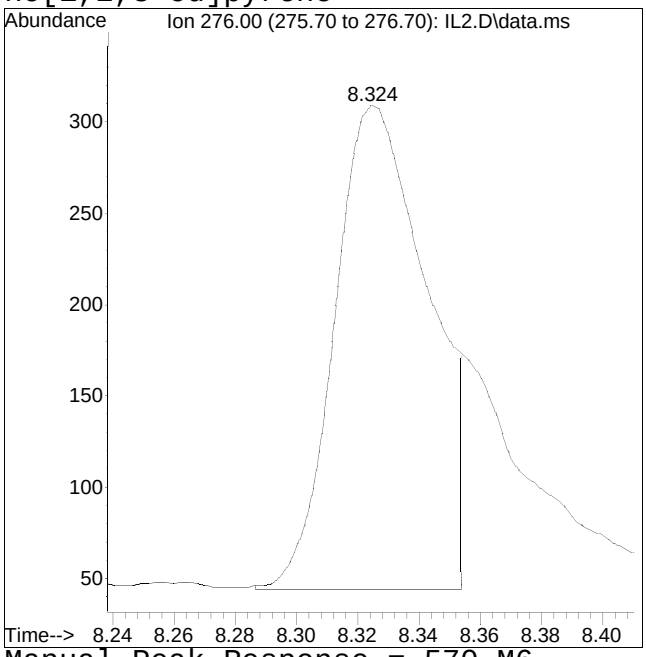
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL2.D
Date Inj'd : 9/25/2024 3:02 am
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 652



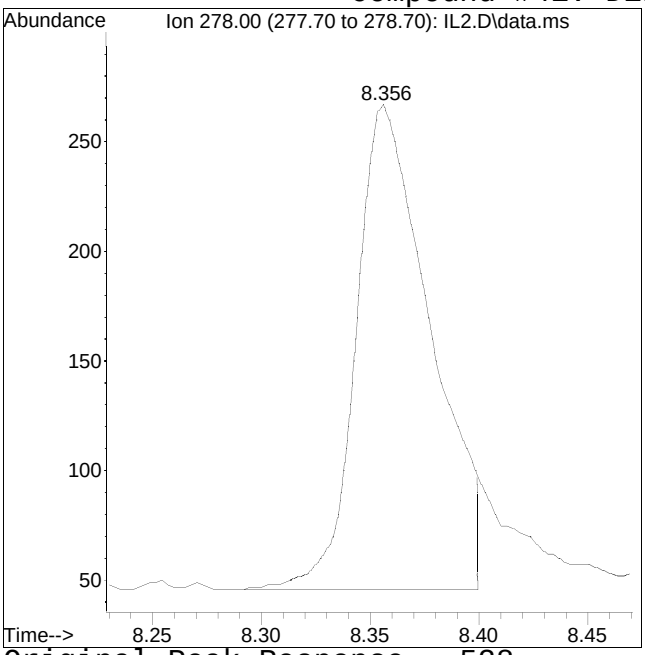
Manual Peak Response = 570 M6

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

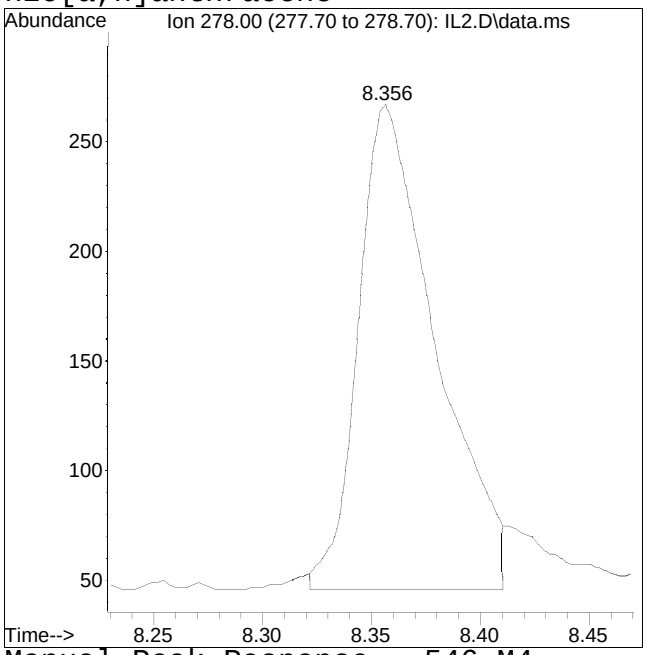
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL2.D
Date Inj'd : 9/25/2024 3:02 am
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 528



Manual Peak Response = 546 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL1.D
Acq On : 25 Sep 2024 03:18 am
Operator : SV120:mrg
Sample : IL1,32,,1.0ng/mL lot# 10895
Misc : WG1976347
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 25 18:06:33 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.096	152	313124	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 99.81%			
8) Naphthalene-d8	2.753	136	1164023	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 98.22%			
17) Acenaphthene-d10	3.722	164	654155	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 97.01%			
22) Phenanthrene-d10	4.558	188	1326269	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 96.72%			
31) Chrysene-d12	6.092	240	1368347	4000.000	ng/ml	-0.02
Standard Area 1 = 1370492			Recovery = 99.84%			
36) Perylene-d12	7.188	264	1365742	4000.000	ng/ml	-0.01
Standard Area 1 = 1438322			Recovery = 94.95%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.531	112	83	0.959	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.05%#			
3) Phenol-d6	0.000	99	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
7) Nitrobenzene-d5	2.382	82	84	0.978	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.10%#			
13) 2-Fluorobiphenyl	3.354	172	206M6	0.932	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.09%#			
21) 2,4,6-Tribromophenol	0.000	330	0	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
30) 4-Terphenyl-d14	5.484	244	278M6	1.197	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.06%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
5) n-nitrosodi-n-propylamine	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.763	128	317M4	1.093	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	3.145	142	177	0.970	ng/ml	97
12) 1-Methylnaphthalene	3.198	142	185	1.051	ng/ml	95
14) 2-Chloronaphthalene	3.417	162	182	0.957	ng/ml	97
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL1.D
Acq On : 25 Sep 2024 03:18 am
Operator : SV120:mrg
Sample : IL1,32,,1.0ng/mL lot# 10895
Misc : WG1976347
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 25 18:06:33 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
16) Acenaphthylene	3.642	152	277	1.001	ng/ml	95
18) Acenaphthene	3.739	153	190M6	0.972	ng/ml	
19) 2,4-Dinitrotoluene	0.000		0	N.D.		
20) Fluorene	4.035	166	214	0.991	ng/ml	86
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.350	284	82M4	1.075	ng/ml	
25) Pentachlorophenol	0.000		0	N.D. d		
26) Phenanthrene	4.572	178	305M3	0.913	ng/ml	
27) Anthracene	4.600	178	353	1.078	ng/ml	100
28) Fluoranthene	5.257	202	407	1.053	ng/ml	96
29) Pyrene	5.384	202	459	1.123	ng/ml	98
32) Benzo[a]anthracene	6.092	228	4564M6	1.057	ng/ml	
33) 3,3'-Dichlorobenzene	0.000		0	N.D. d		
34) Chrysene	6.102	228	361M3	0.931	ng/ml	
35) Bis(2-ethylhexyl)phtha...	6.121	149	675	27.066	ng/ml	99
37) Benzo[b]fluoranthene	6.854	252	360	0.955	ng/ml	98
38) Benzo[k]fluoranthene	6.878	252	356M6	0.962	ng/ml	
39) Benzo[a]pyrene	7.129	252	295	0.914	ng/ml	95
40) Indeno[1,2,3-cd]pyrene	8.324	276	235M6	0.740	ng/ml	
41) Dibenzo[a,h]anthracene	8.365	278	256M1	0.853	ng/ml	
42) Benzo[g,h,i]perylene	8.628	276	307M1	0.953	ng/ml	

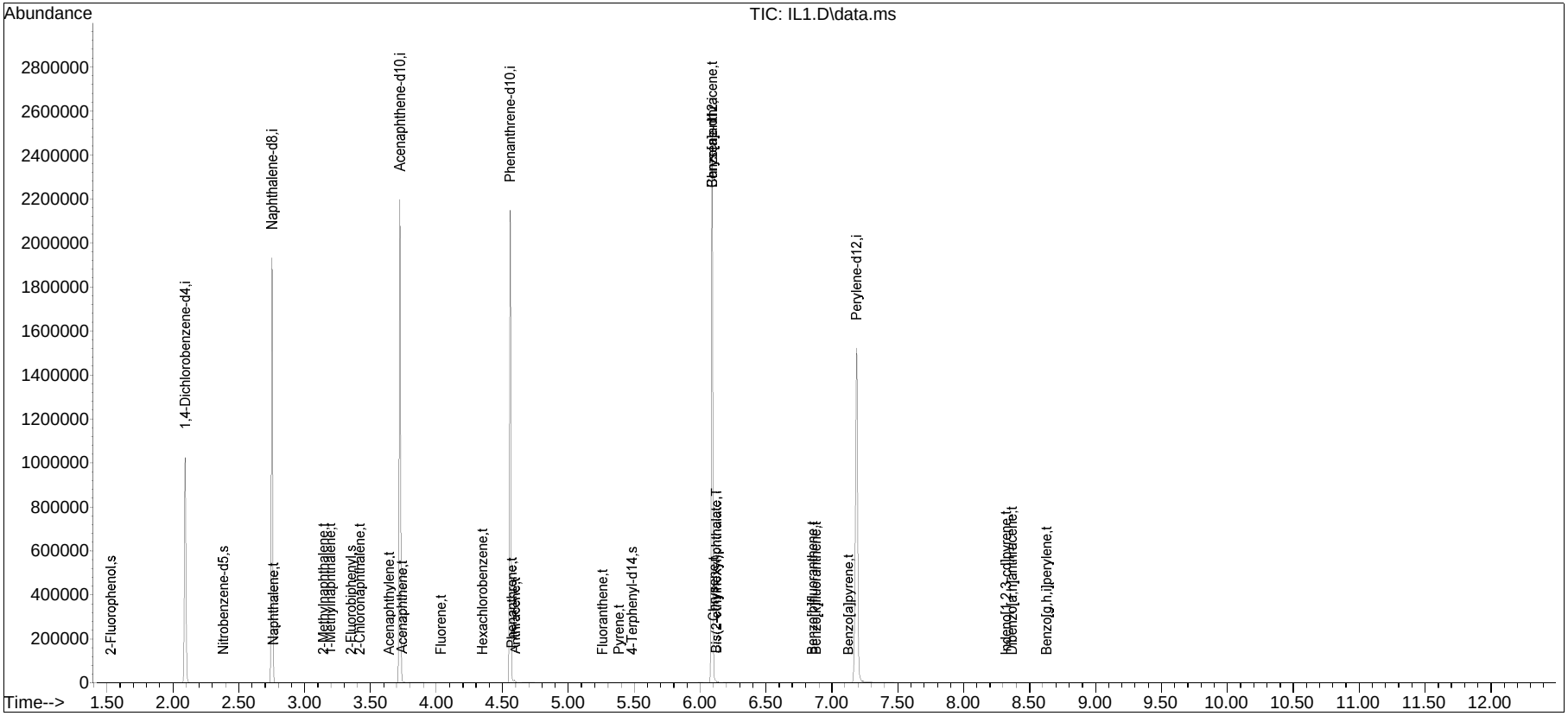
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : IL1.D
Acq On : 25 Sep 2024 03:18 am
Operator : SV120:mrg
Sample : IL1,32,,1.0ng/mL lot# 10895
Misc : WG1976347
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 25 18:06:33 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

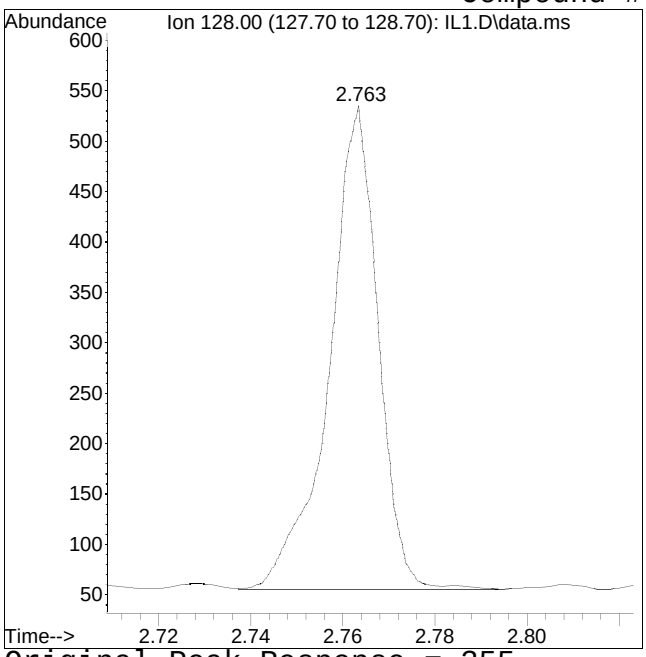
Sub List : Default - All compounds listedical\IL8.D•



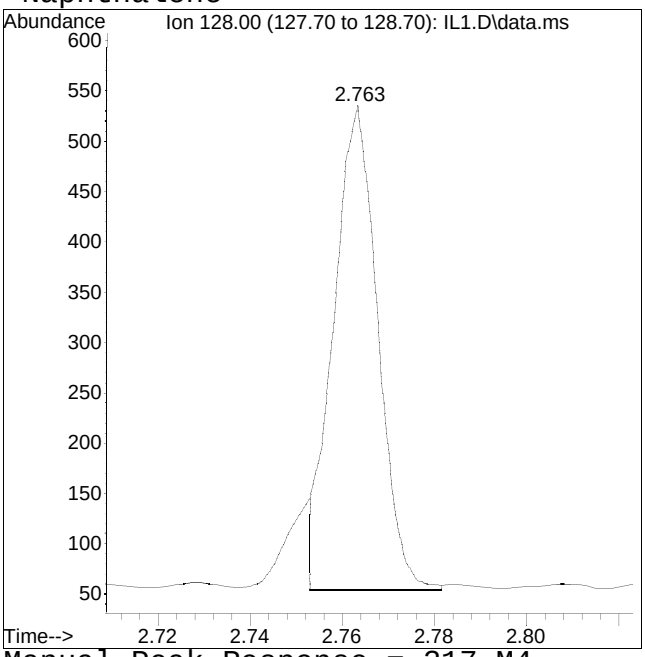
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #9: Naphthalene



Original Peak Response = 355



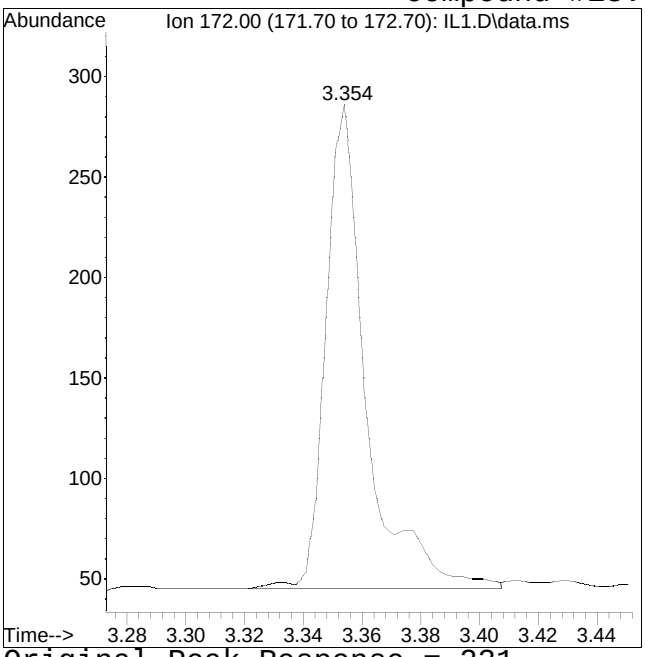
Manual Peak Response = 317 M4

M4 = Poor automated baseline construction.

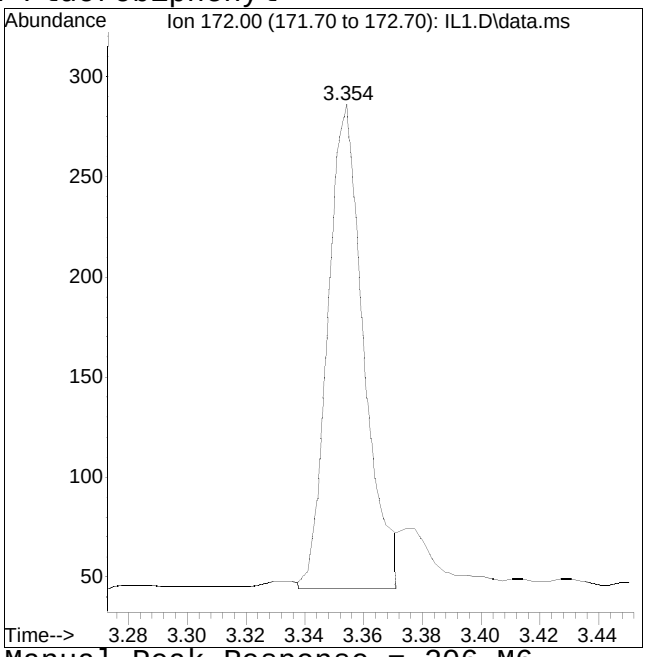
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #13: 2-Fluorobiphenyl



Original Peak Response = 231



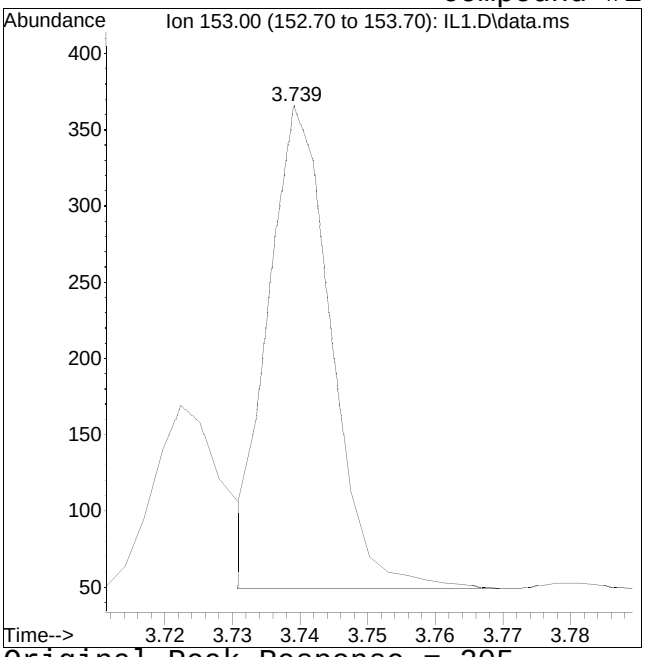
Manual Peak Response = 206 M6

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

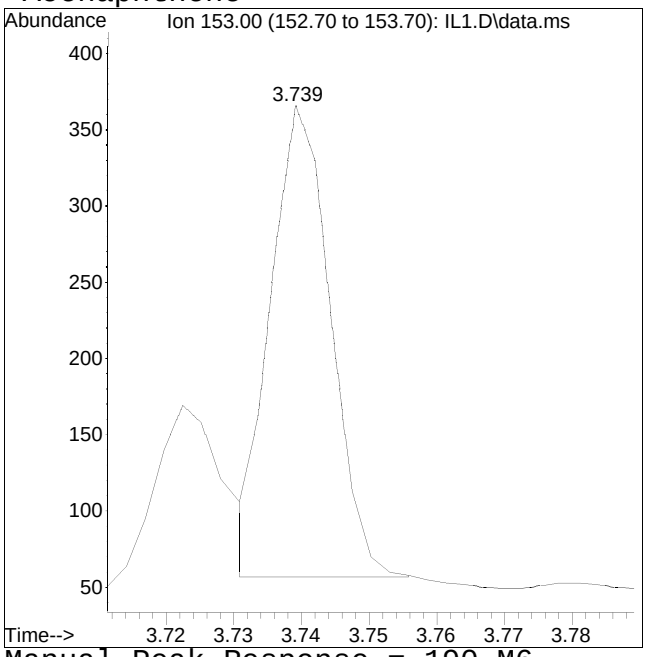
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #18: Acenaphthene



Original Peak Response = 205



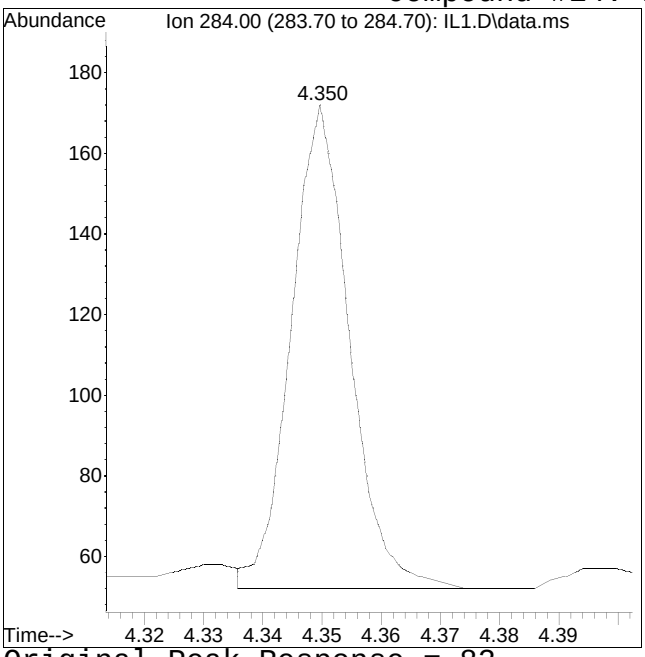
Manual Peak Response = 190 M6

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

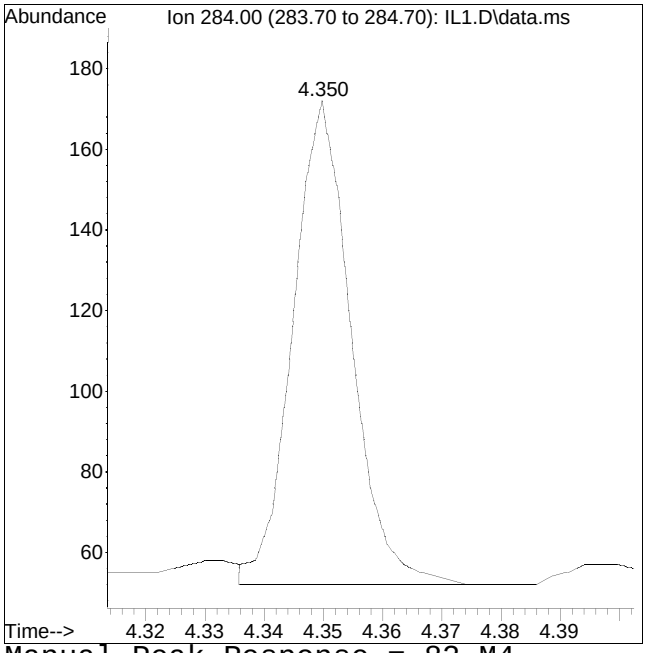
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 82



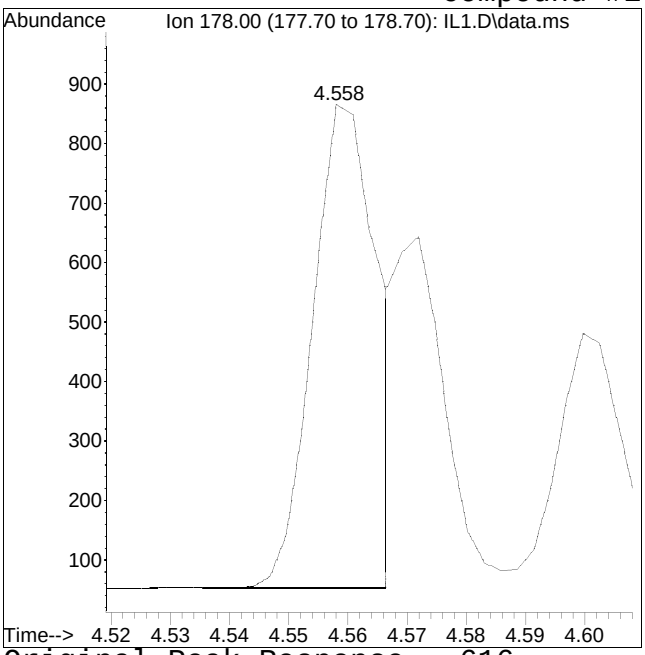
Manual Peak Response = 82 M4

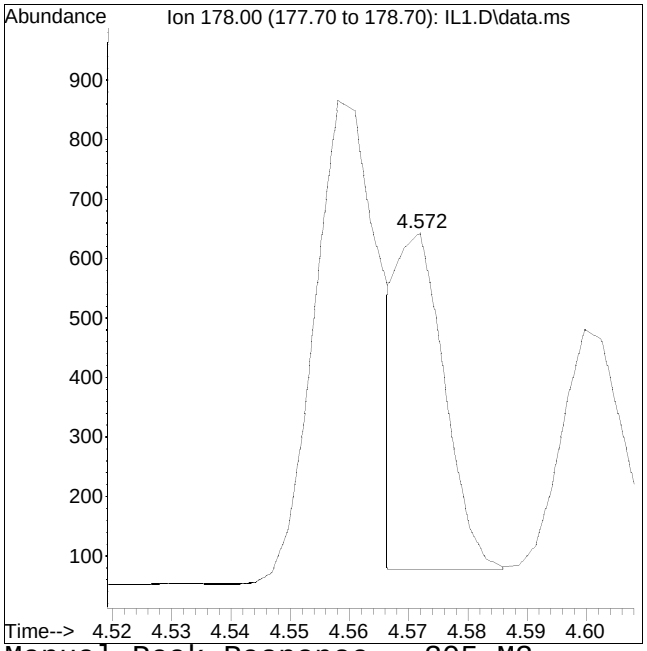
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #26: Phenanthrene





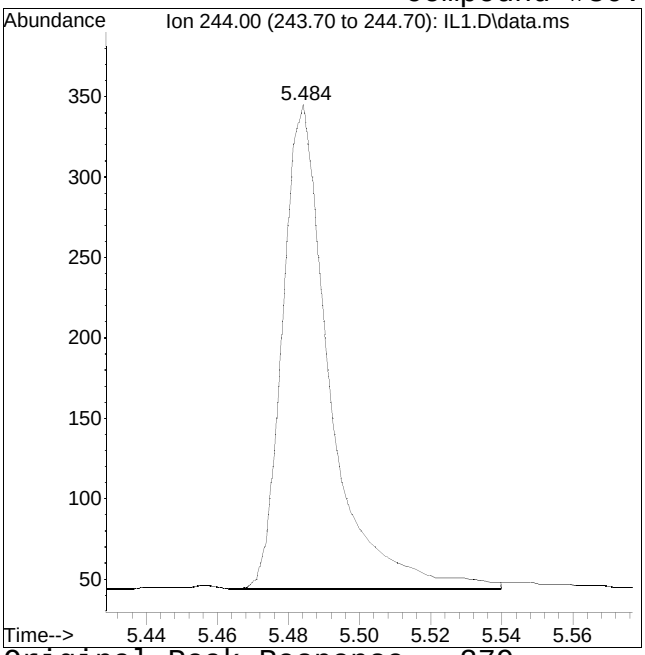
Original Peak Response = 616 Manual Peak Response = 305 M3

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

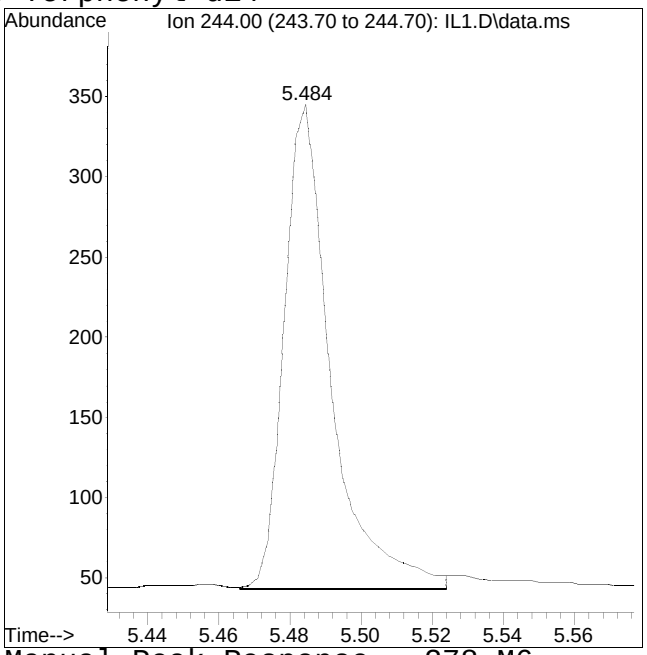
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #30: 4-Terphenyl-d14



Original Peak Response = 279



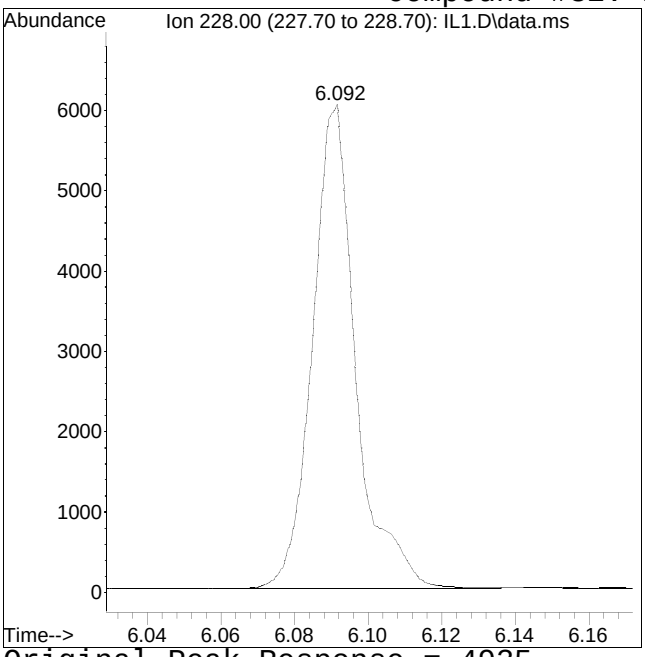
Manual Peak Response = 278 M6

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

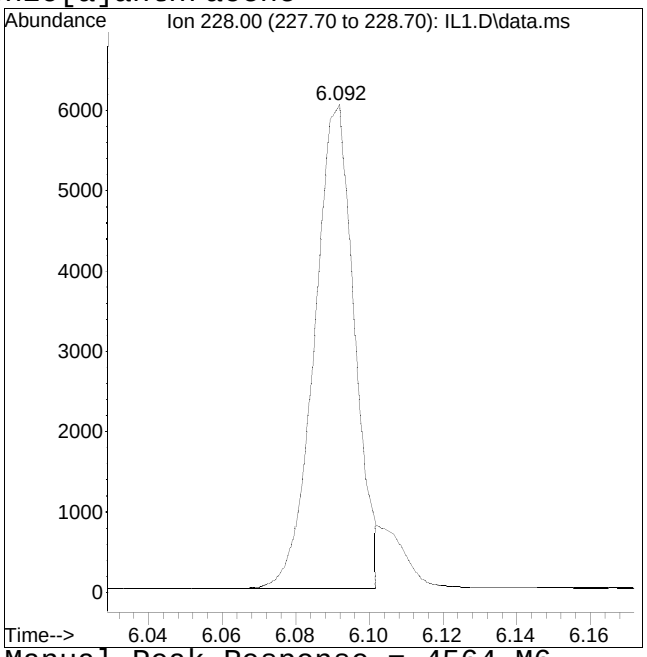
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 4935



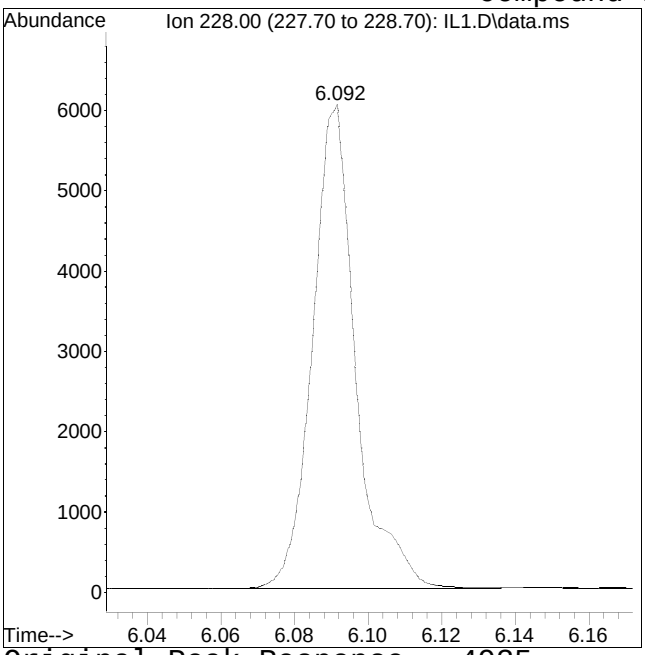
Manual Peak Response = 4564 M6

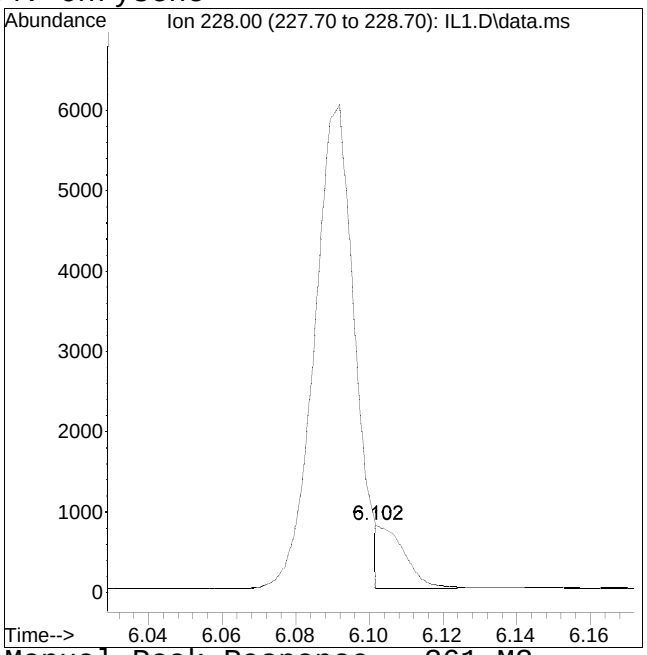
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #34: Chrysene





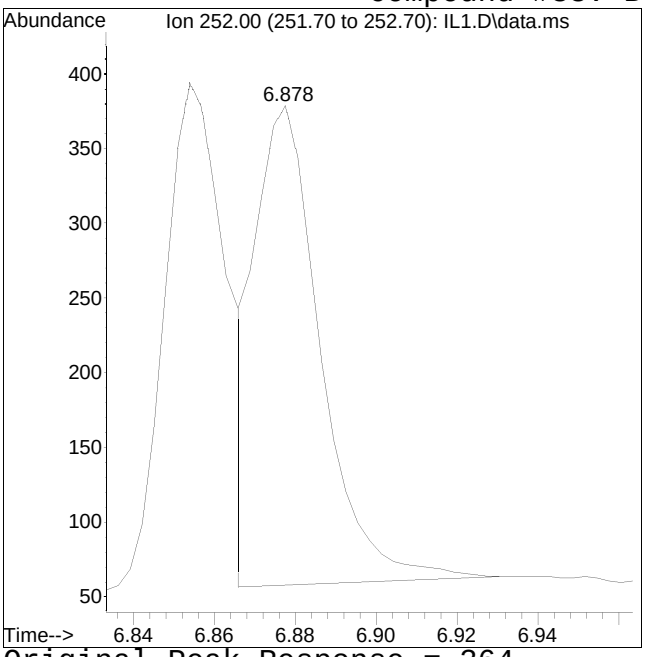
Original Peak Response = 4935 Manual Peak Response = 361 M3

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

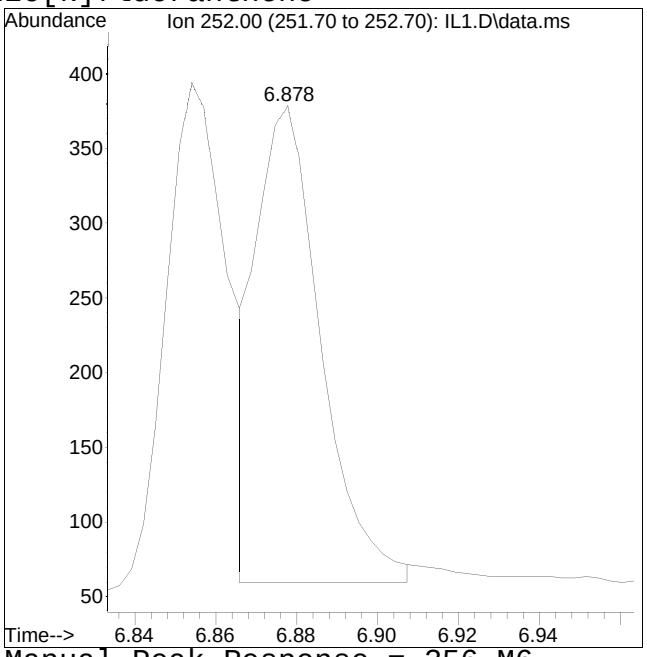
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 364



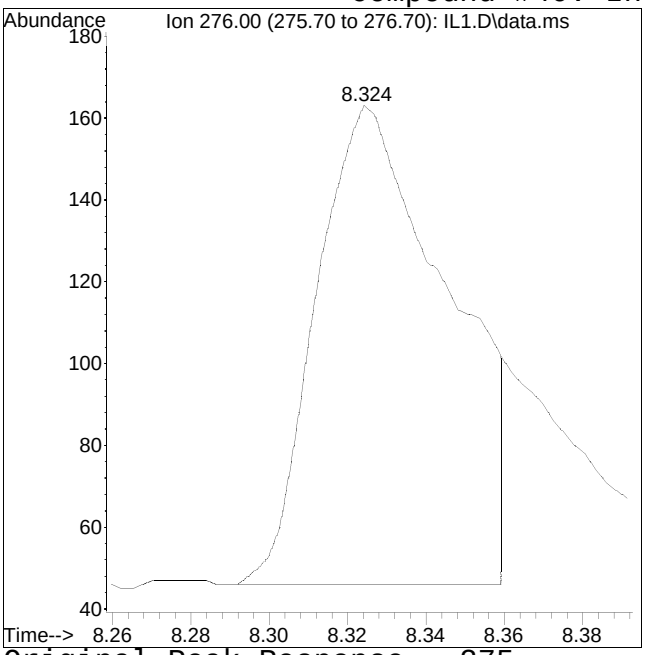
Manual Peak Response = 356 M6

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

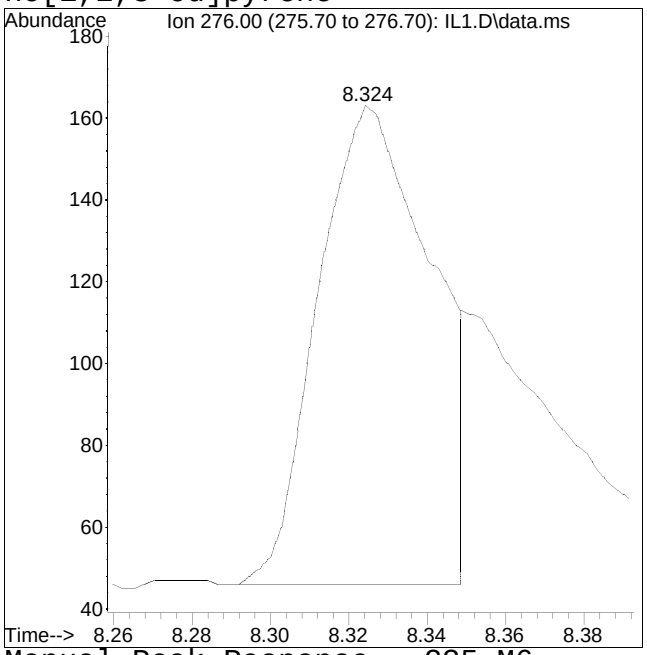
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 275



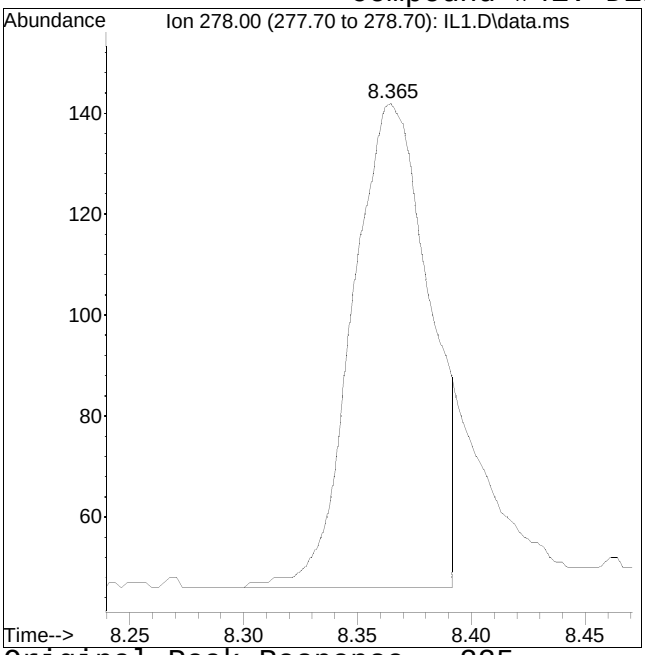
Manual Peak Response = 235 M6

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

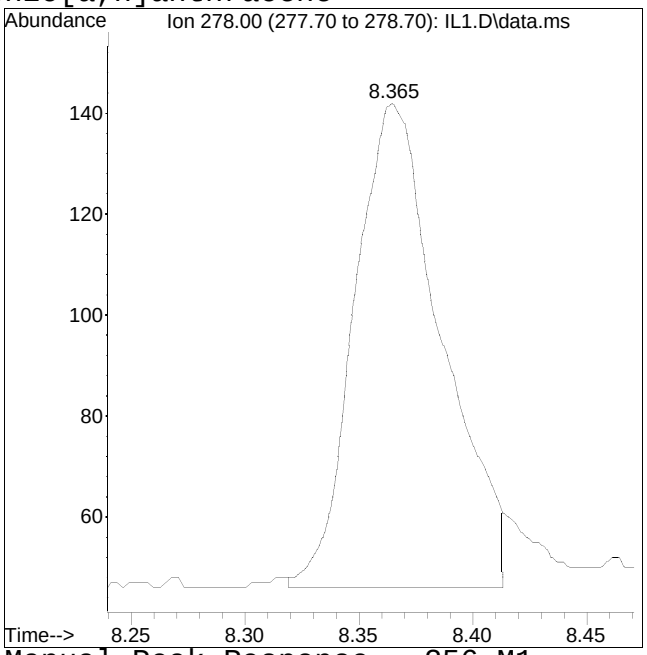
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 225



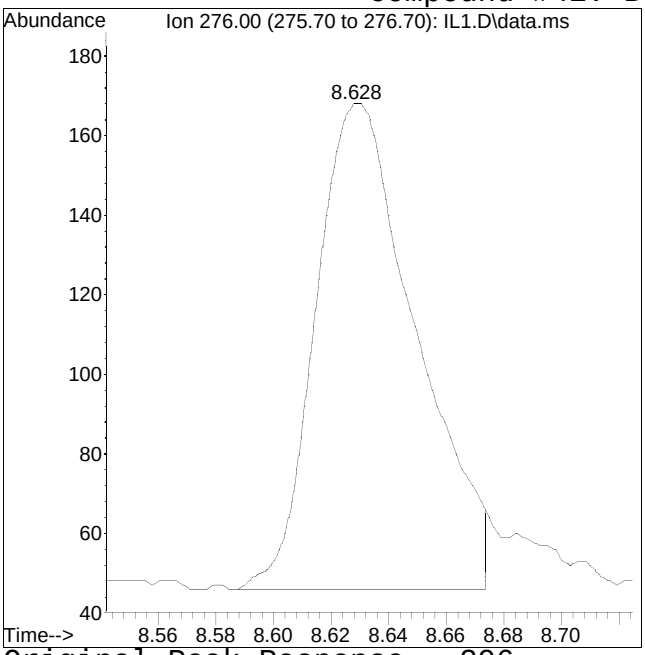
Manual Peak Response = 256 M1

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

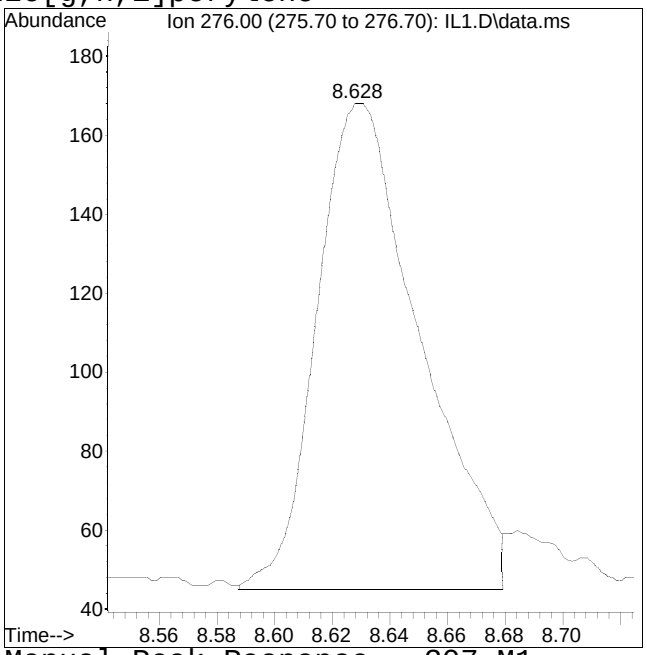
Manual Integration Report

Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : IL1.D
Date Inj'd : 9/25/2024 3:18 am
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:07 pm

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 296



Manual Peak Response = 307 M1

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

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : ICV.D
Acq On : 25 Sep 2024 03:35 am
Operator : SV120:mrg
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1976347
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 25 18:27:56 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
2	s	2-Fluorophenol	1.106	1.114	-0.7	95	0.00
3	s	Phenol-d6	1.298	1.326	-2.2	95	0.00
4	T	Bis(2-chloroethyl)ether	1.138	1.081	5.0	93	0.00
5	T	n-nitrosodi-n-propylamine	0.770	0.740	3.9	91	0.00
6	t	Hexachloroethane	0.490	0.463	5.5	92	0.00
7	s	Nitrobenzene-d5	1.097	1.118	-1.9	93	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	95	0.00
9	t	Naphthalene	0.997	0.927	7.0	94	0.00
10	t	Hexachlorobutadiene	0.191	0.182	4.7	94	0.00
11	t	2-Methylnaphthalene	0.627	0.632	-0.8	96	0.00
12	t	1-Methylnaphthalene	0.605	0.580	4.1	95	0.00
13	s	2-Fluorobiphenyl	0.759	0.735	3.2	95	0.00
14	t	2-Chloronaphthalene	0.654	0.643	1.7	95	0.00
15	t	2,6-Dinitrotoluene	*1000.000	894.692	10.5	91	0.00
16	t	Acenaphthylene	0.951	0.963	-1.3	95	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	97	0.00
18	t	Acenaphthene	1.195	1.130	5.4	95	0.00
19	t	2,4-Dinitrotoluene	*1000.000	910.682	8.9	94	0.00
20	t	Fluorene	1.320	1.289	2.3	96	0.00
21	s	2,4,6-Tribromophenol	0.179	0.200	-11.7	99	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	838.239	16.2	92	0.00
24	t	Hexachlorobenzene	0.230	0.213	7.4	95	0.00
25	t	Pentachlorophenol	*1000.000	1009.942	-1.0	96	0.00
26	t	Phenanthrene	1.007	0.934	7.2	95	0.00
27	t	Anthracene	0.988	0.965	2.3	98	0.00
28	t	Fluoranthene	1.166	1.149	1.5	99	0.00
29	t	Pyrene	1.233	1.232	0.1	101	0.00
30	s	4-Terphenyl-d14	0.701	0.690	1.6	99	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	102	-0.02
32	t	Benzo[a]anthracene	*1000.000	994.305	0.6	102	-0.02
33	t	3,3'-Dichlorobenzene	0.428	0.459	-7.2	105	-0.02
34	t	Chrysene	1.133	1.111	1.9	97	-0.02
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	884.101	11.6	100	-0.02

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : ICV.D
Acq On : 25 Sep 2024 03:35 am
Operator : SV120:mrg
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1976347
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 25 18:27:56 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	99	-0.01
37	t	Benzo[b]fluoranthene	1.104	1.158	-4.9	99	-0.02
38	t	Benzo[k]fluoranthene	1.084	1.043	3.8	95	-0.02
39	t	Benzo[a]pyrene	0.946	0.991	-4.8	97	-0.02
40	t	Indeno[1,2,3-cd]pyrene	0.930	0.957	-2.9	94	-0.01
41	t	Dibenzo[a,h]anthracene	0.879	0.903	-2.7	95	-0.01
42	t	Benzo[g,h,i]perylene	0.943	0.937	0.6	94	-0.01

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : ICV.D
Acq On : 25 Sep 2024 03:35 am
Operator : SV120:mrg
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1976347
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 25 18:27:56 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.096	152	296061	4000.000	ng/ml	0.00
Standard Area 1 = 313709			Recovery = 94.37%			
8) Naphthalene-d8	2.751	136	1127189	4000.000	ng/ml	0.00
Standard Area 1 = 1185096			Recovery = 95.11%			
17) Acenaphthene-d10	3.723	164	656527	4000.000	ng/ml	0.00
Standard Area 1 = 674310			Recovery = 97.36%			
22) Phenanthrene-d10	4.561	188	1365766	4000.000	ng/ml	0.00
Standard Area 1 = 1371198			Recovery = 99.60%			
31) Chrysene-d12	6.092	240	1393978	4000.000	ng/ml	-0.02
Standard Area 1 = 1370492			Recovery = 101.71%			
36) Perylene-d12	7.191	264	1420863	4000.000	ng/ml	-0.01
Standard Area 1 = 1438322			Recovery = 98.79%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.526	112	82448	1007.217	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.36%			
3) Phenol-d6	1.920	99	98124	1021.224	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 51.06%			
7) Nitrobenzene-d5	2.376	82	82744	1018.760	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 101.88%			
13) 2-Fluorobiphenyl	3.349	172	207197	968.205	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 96.82%			
21) 2,4,6-Tribromophenol	4.167	330	32770	1115.925	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 55.80%			
30) 4-Terphenyl-d14	5.476	244	235620	985.059	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 49.25%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.963	93	80046	950.360	ng/ml	100
5) n-nitrosodi-n-propylamine	2.298	70	54757	960.949	ng/ml	99
6) Hexachloroethane	2.348	117	34298	946.195	ng/ml	100
9) Naphthalene	2.764	128	261100	929.258	ng/ml	100
10) Hexachlorobutadiene	2.837	225	51301	953.852	ng/ml	99
11) 2-Methylnaphthalene	3.140	142	178146	1008.024	ng/ml	100
12) 1-Methylnaphthalene	3.196	142	163569	959.357	ng/ml	100
14) 2-Chloronaphthalene	3.412	162	181122	983.496	ng/ml	99
15) 2,6-Dinitrotoluene	3.609	165	40952	894.692	ng/ml	97
16) Acenaphthylene	3.642	152	271254	1012.509	ng/ml	100
18) Acenaphthene	3.739	153	185396	945.085	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : ICV.D
Acq On : 25 Sep 2024 03:35 am
Operator : SV120:mrg
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1976347
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 25 18:27:56 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240925RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.837	165	57938	910.682	ng/ml	99
20) Fluorene	4.030	166	211530	976.275	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.066	198	32791	838.239	ng/ml	100
24) Hexachlorobenzene	4.350	284	72897	928.385	ng/ml	100
25) Pentachlorophenol	4.463	266	37954	1009.942	ng/ml	100
26) Phenanthrene	4.572	178	318819	927.268	ng/ml	100
27) Anthracene	4.600	178	329588	977.030	ng/ml	100
28) Fluoranthene	5.249	202	392481	985.753	ng/ml	100
29) Pyrene	5.378	202	420626	999.023	ng/ml	100
32) Benzo[a]anthracene	6.084	228	416376	994.305	ng/ml	100
33) 3,3'-Dichlorobenzene	6.077	252	159820	1072.099	ng/ml	100
34) Chrysene	6.106	228	387154	980.202	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.121	149	221124	884.101	ng/ml	100
37) Benzo[b]fluoranthene	6.847	252	411219	1048.154	ng/ml	100
38) Benzo[k]fluoranthene	6.868	252	370464	962.431	ng/ml	99
39) Benzo[a]pyrene	7.126	252	351911	1047.747	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.297	276	340008	1029.512	ng/ml	98
41) Dibenzo[a,h]anthracene	8.329	278	320729M6	1027.744	ng/ml	
42) Benzo[g,h,i]perylene	8.611	276	332724	992.956	ng/ml	100

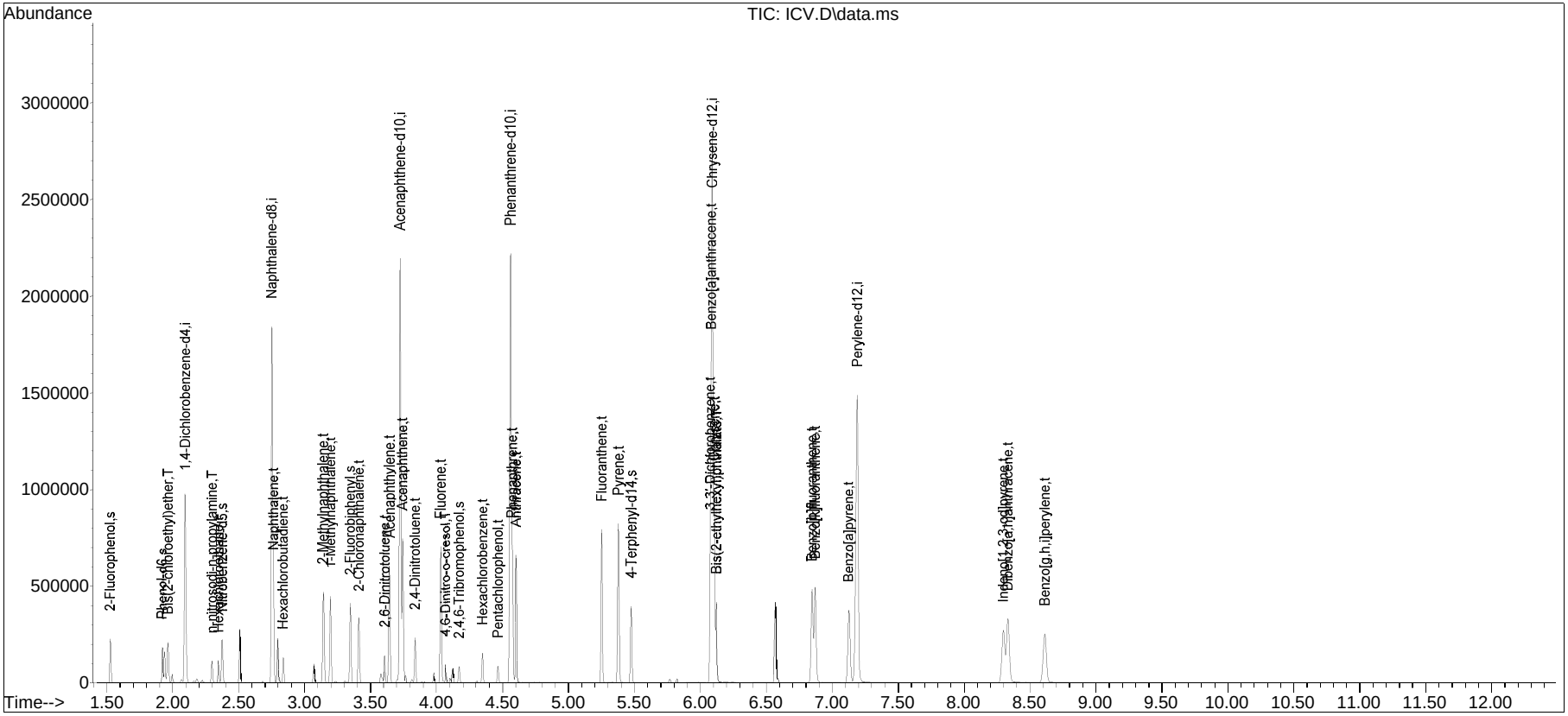
(#) = qualifier out of range (m) = manual integration (+) = signals summed

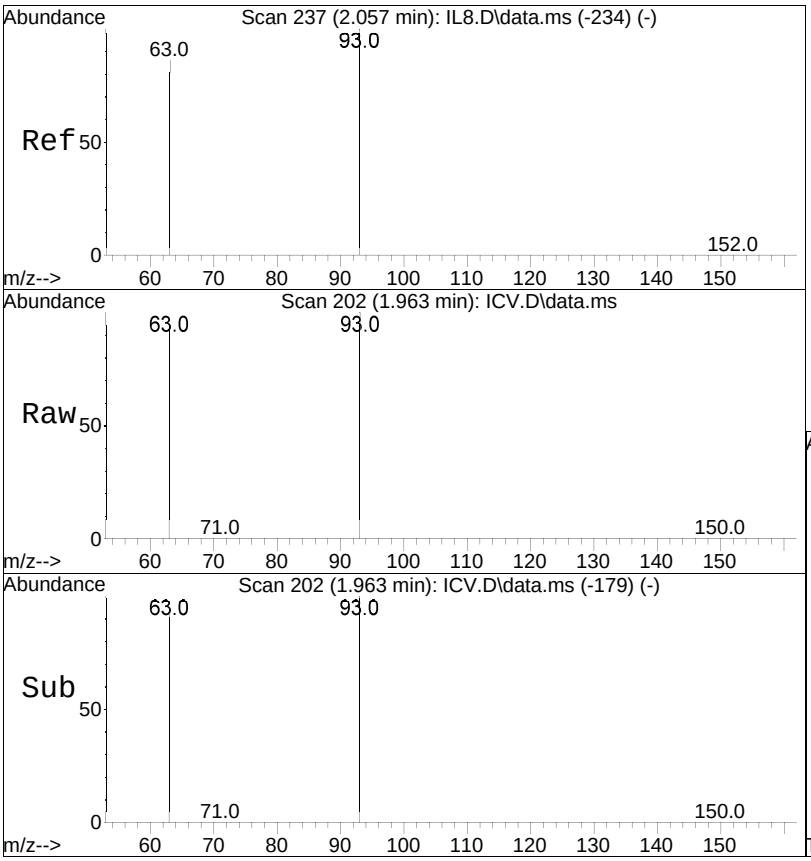
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240925RVTical\
Data File : ICV.D
Acq On : 25 Sep 2024 03:35 am
Operator : SV120:mrg
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1976347
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 25 18:27:56 2024
Quant Method : I:\8270SIM\sv120\240925RVTical\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 11:34:07 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL8.D•

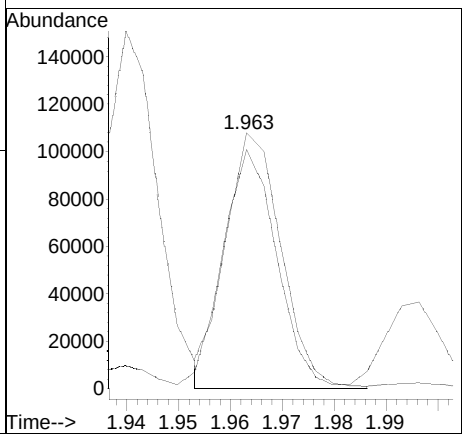


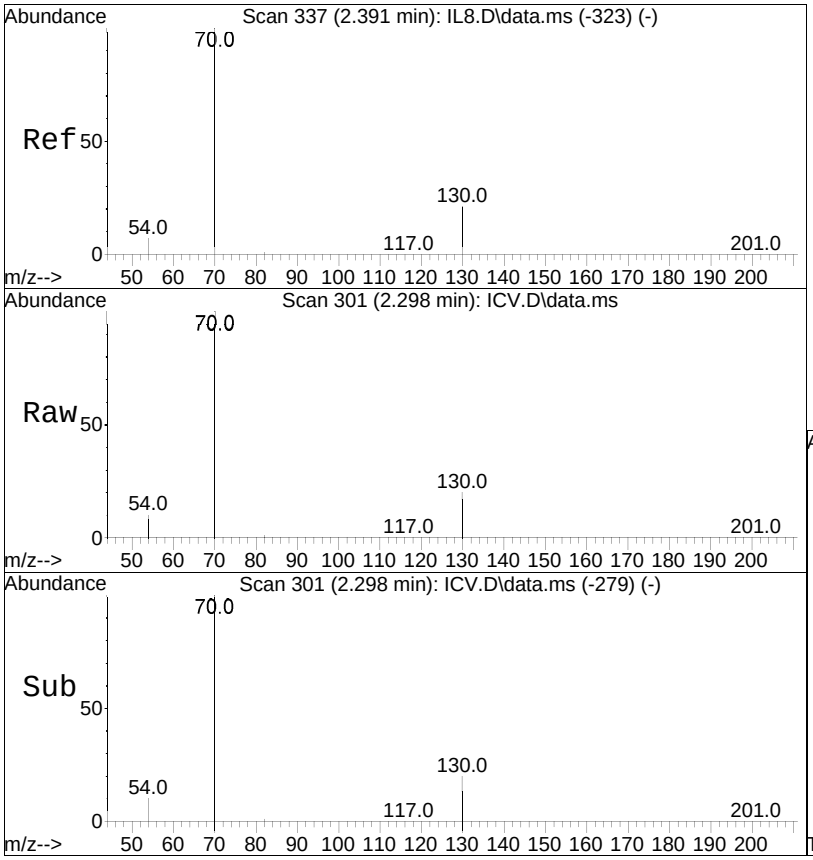


#4
Bis(2-chloroethyl)ether
Concen: 950.36 ng/ml
RT: 1.963 min Scan# 202
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion: 93 Resp: 80046

Ion	Ratio	Lower	Upper
93	100		
63	91.3	73.0	109.4

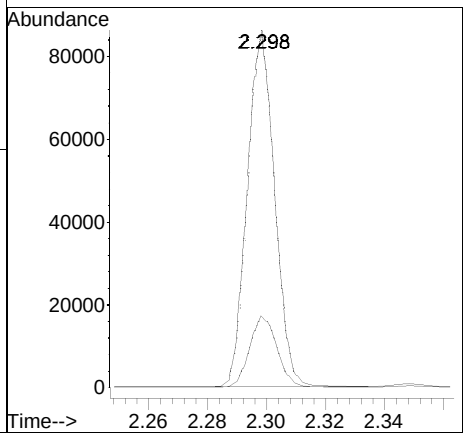


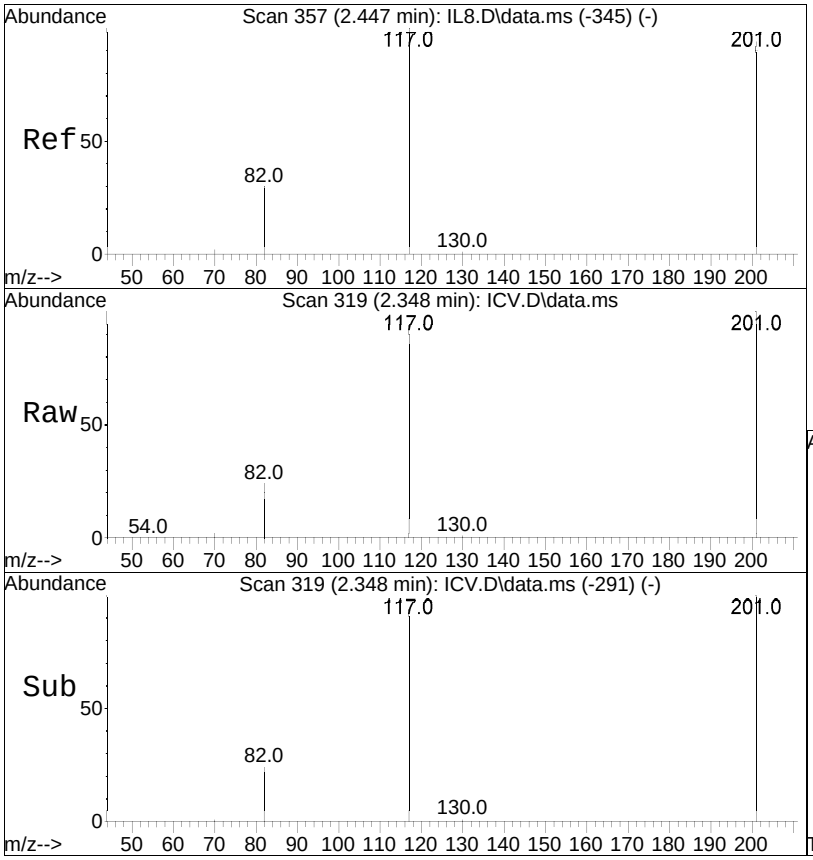


#5
n-nitrosodi-n-propylamine
Concen: 960.95 ng/ml
RT: 2.298 min Scan# 301
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion: 70 Resp: 54757

Ion	Ratio	Lower	Upper
70	100		
130	20.2	16.4	24.6

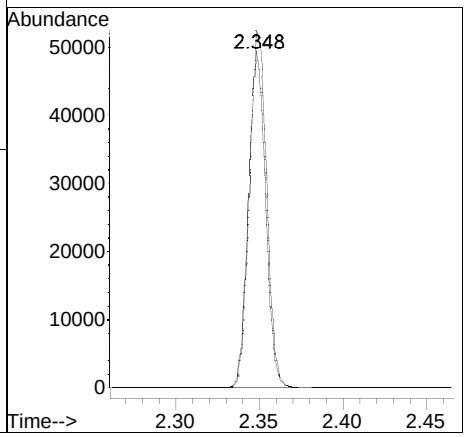


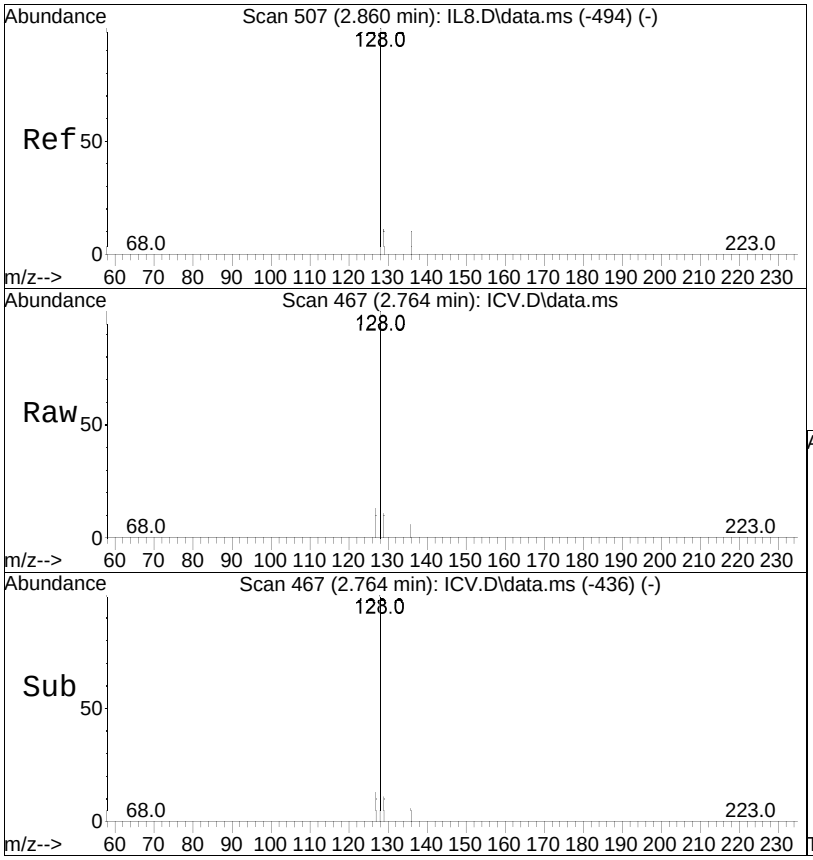


#6
Hexachloroethane
Concen: 946.19 ng/ml
RT: 2.348 min Scan# 319
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:117 Resp: 34298

Ion	Ratio	Lower	Upper
117	100		
201	107.5	86.2	129.2

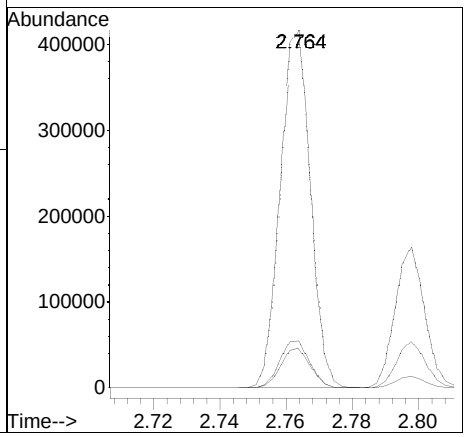


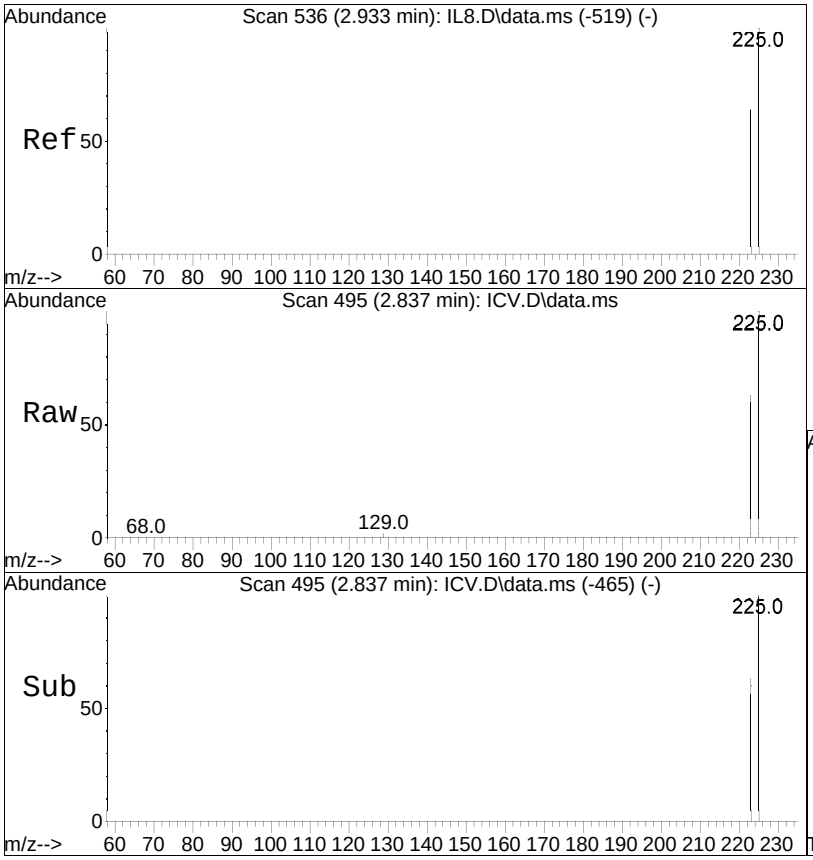


#9
Naphthalene
Concen: 929.26 ng/ml
RT: 2.764 min Scan# 467
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:128 Resp: 261100

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.2	10.6	16.0

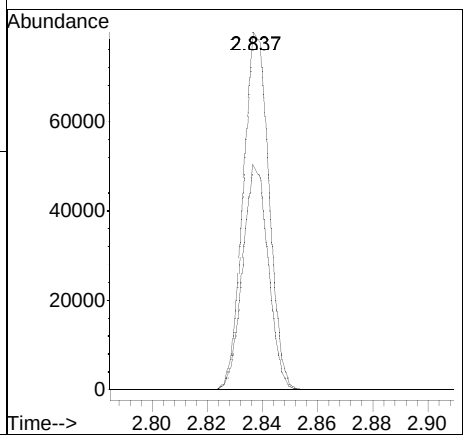


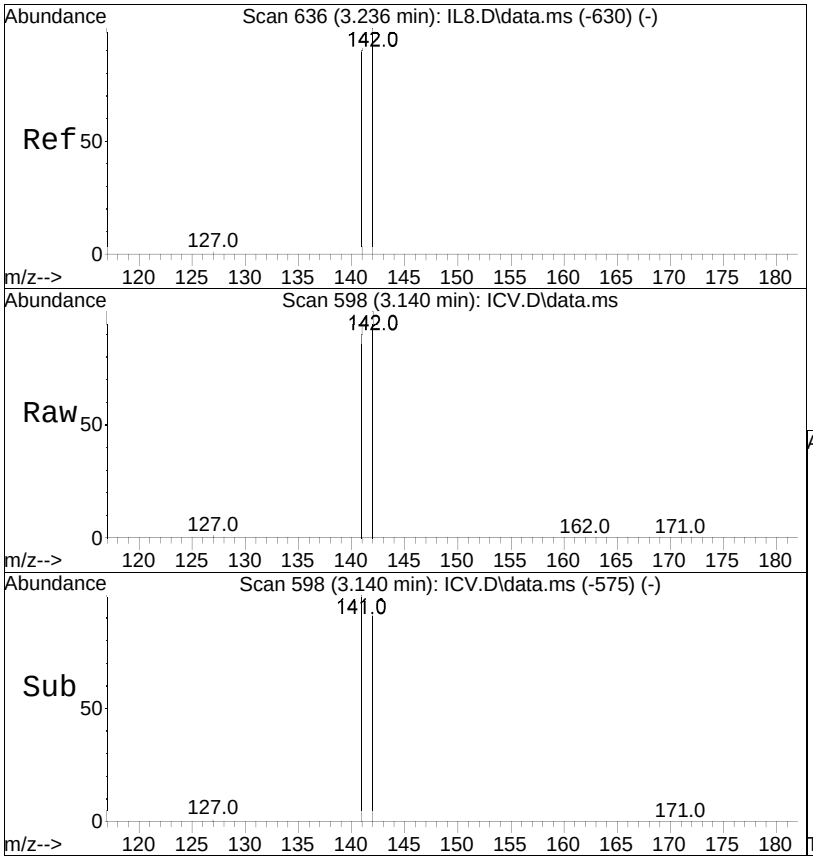


#10
Hexachlorobutadiene
Concen: 953.85 ng/ml
RT: 2.837 min Scan# 495
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:225 Resp: 51301

Ion	Ratio	Lower	Upper
225	100		
223	62.3	50.3	75.5

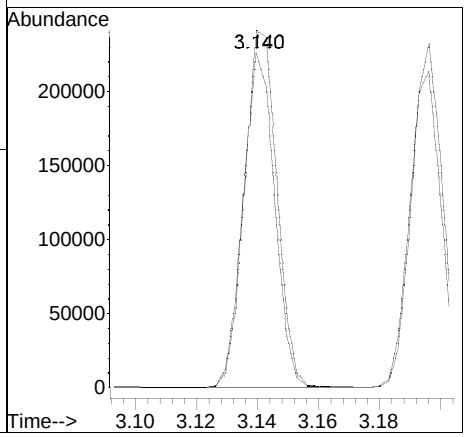


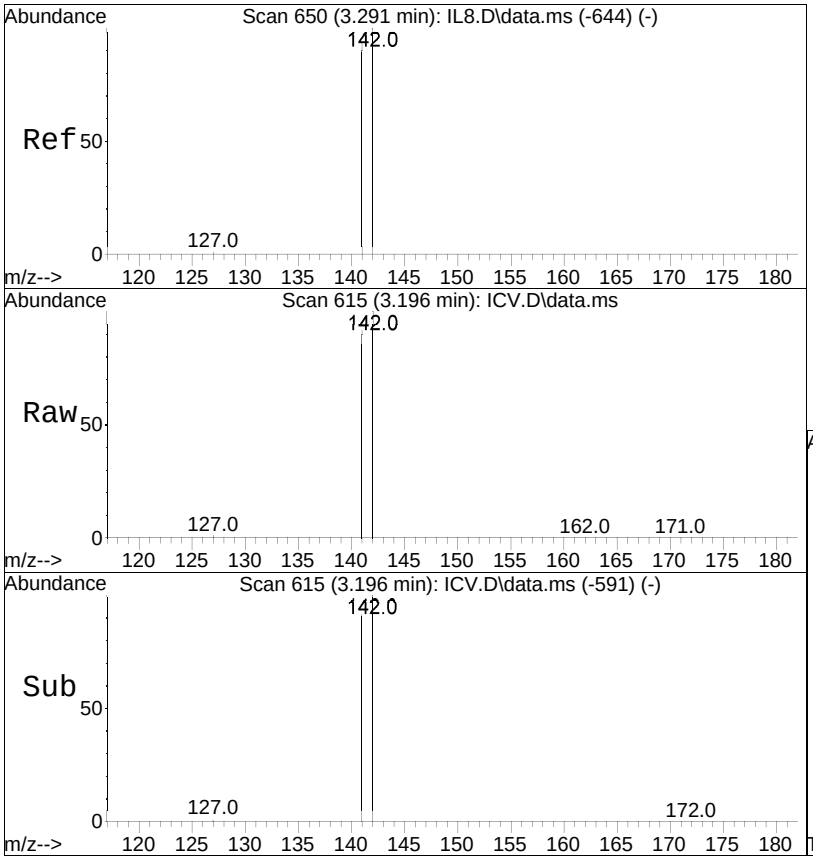


#11
2-Methylnaphthalene
Concen: 1008.02 ng/ml
RT: 3.140 min Scan# 598
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:142 Resp: 178146

Ion	Ratio	Lower	Upper
142	100		
141	91.2	73.3	109.9

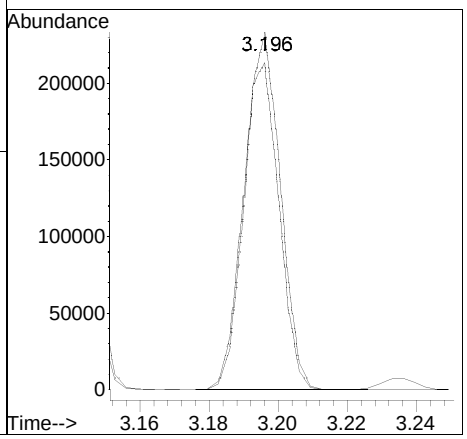


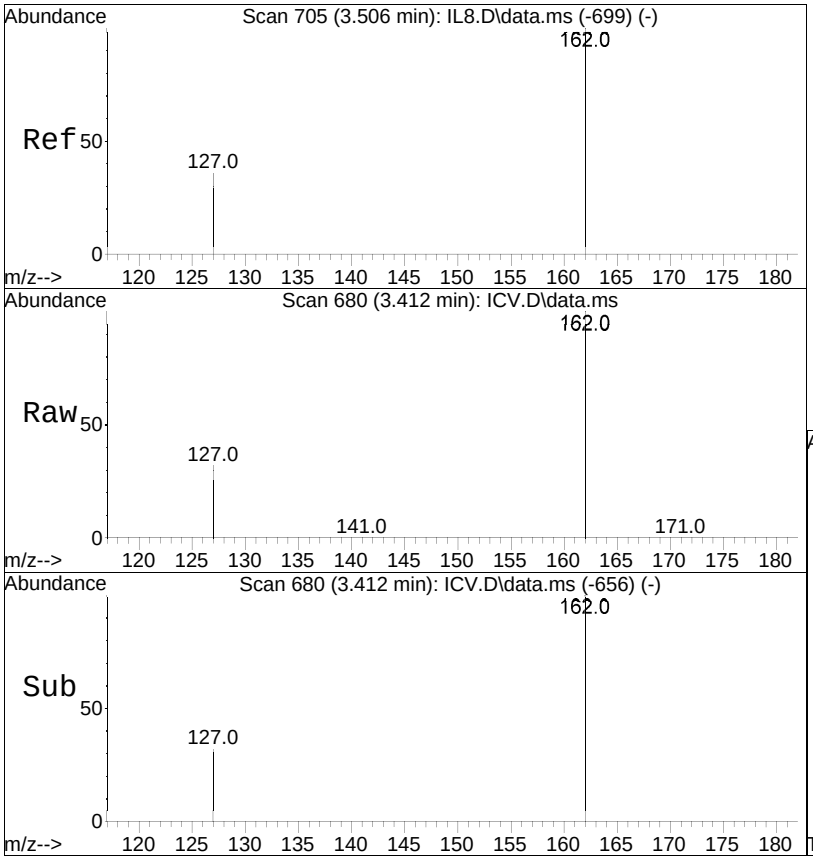


#12
1-Methylnaphthalene
Concen: 959.36 ng/ml
RT: 3.196 min Scan# 615
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:142 Resp: 163569

Ion	Ratio	Lower	Upper
142	100		
141	94.0	74.9	112.3

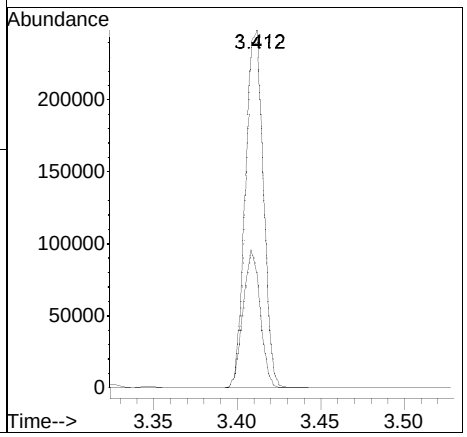


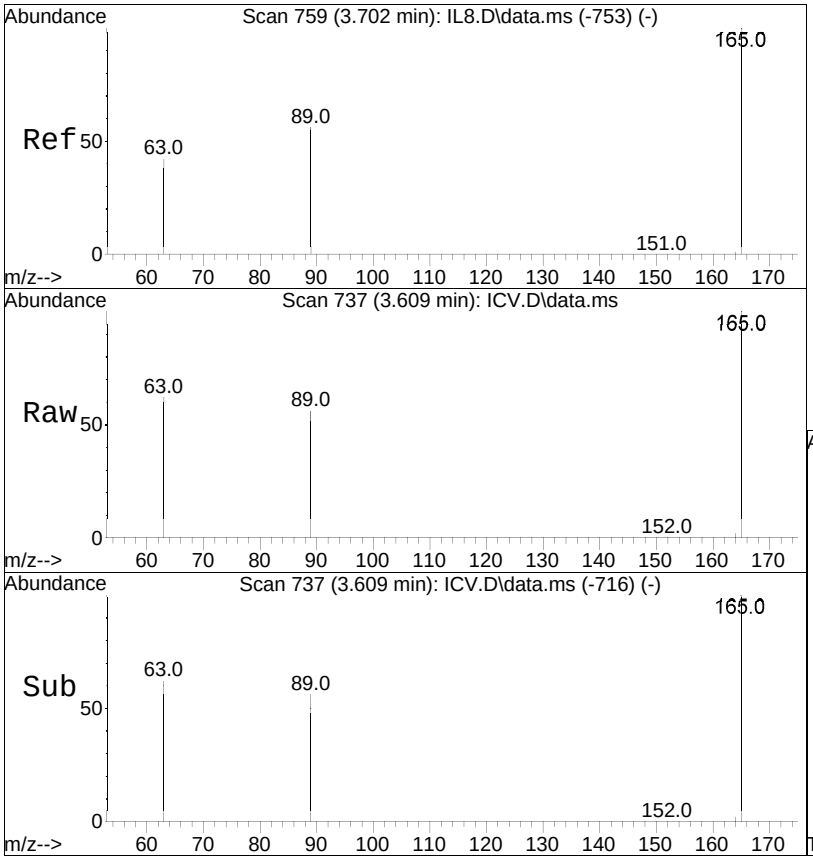


#14
2-Chloronaphthalene
Concen: 983.50 ng/ml
RT: 3.412 min Scan# 680
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:162 Resp: 181122

Ion	Ratio	Lower	Upper
162	100		
127	37.1	30.1	45.1

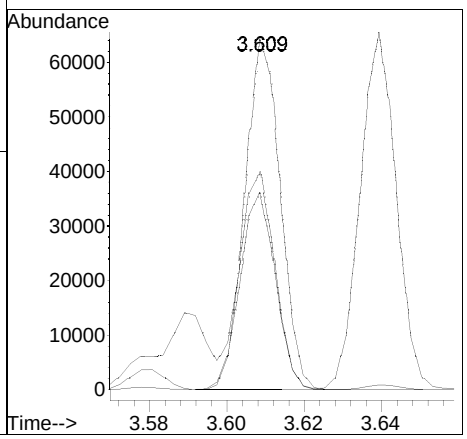


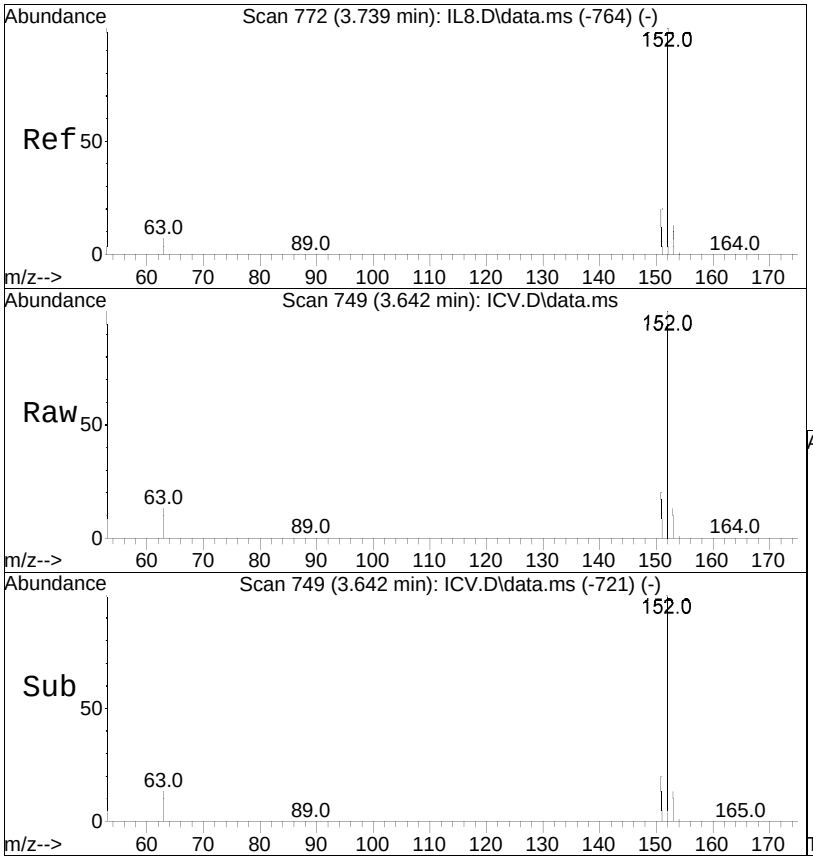


#15
2,6-Dinitrotoluene
Concen: 894.69 ng/ml
RT: 3.609 min Scan# 737
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:165 Resp: 40952

Ion	Ratio	Lower	Upper
165	100		
89	56.1	44.0	66.0
63	62.0	47.5	71.3

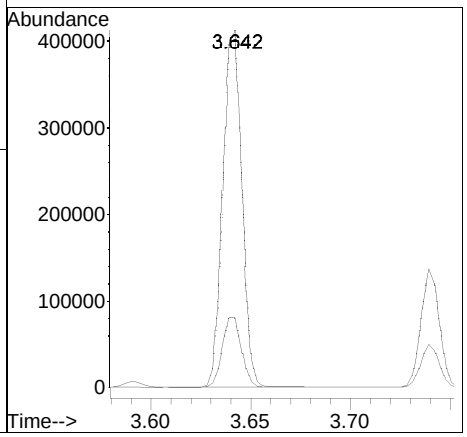


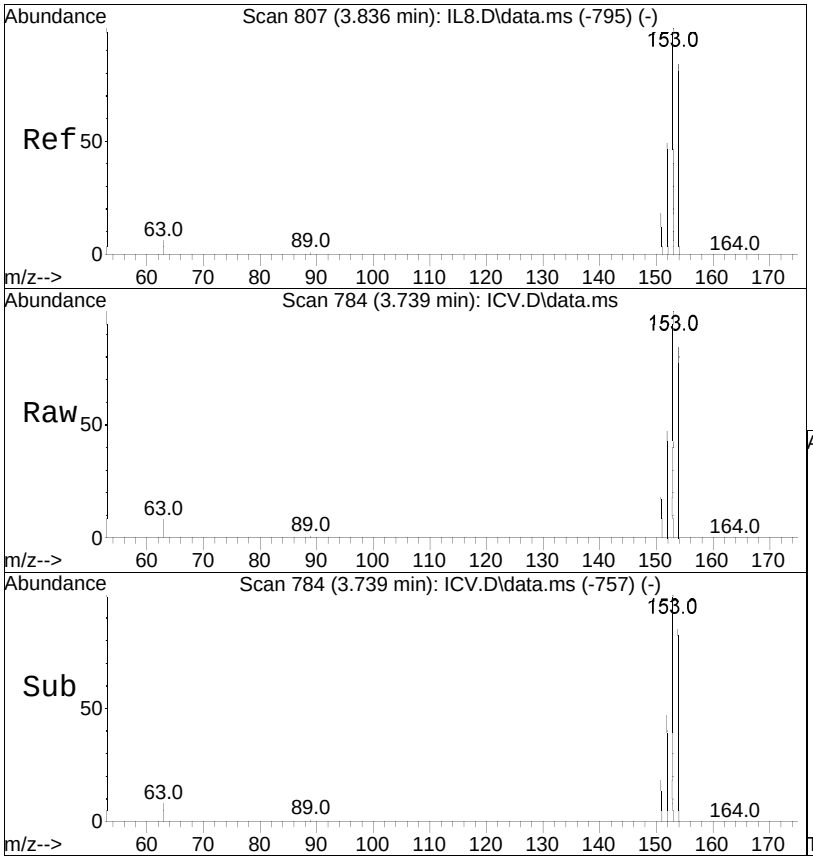


#16
Acenaphthylene
Concen: 1012.51 ng/ml
RT: 3.642 min Scan# 749
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:152 Resp: 271254

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2

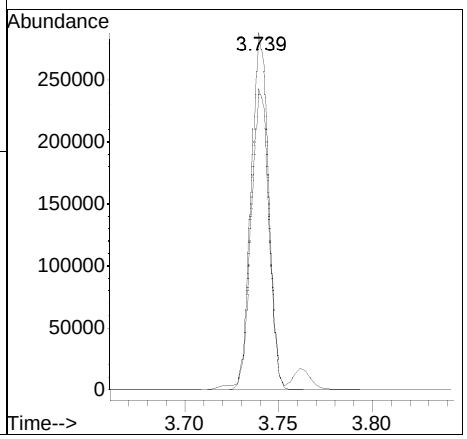


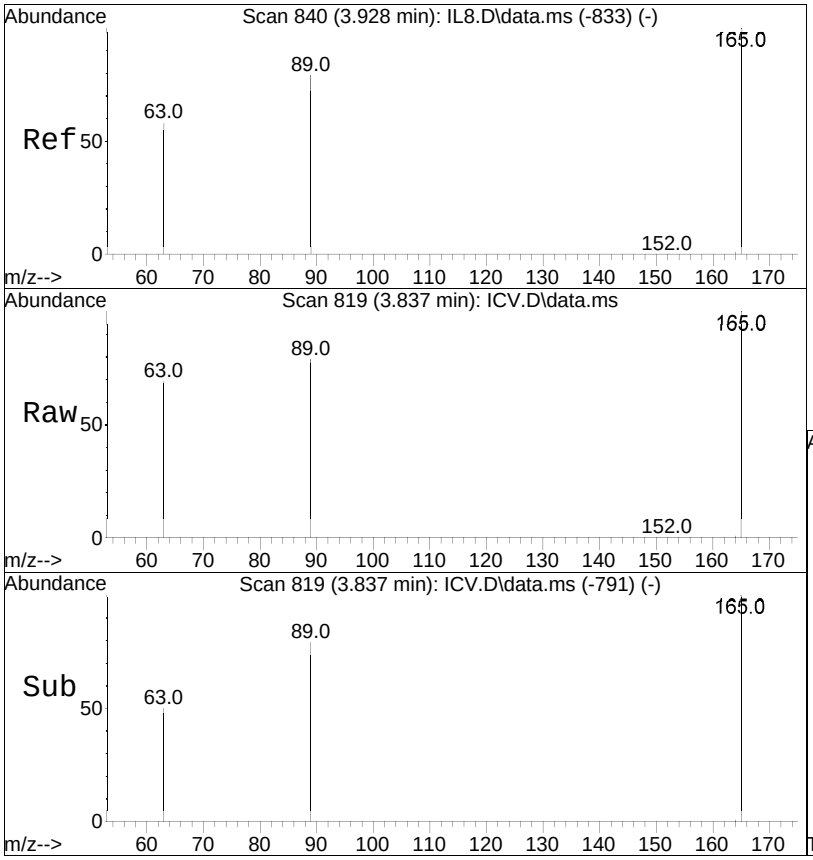


#18
Acenaphthene
Concen: 945.09 ng/ml
RT: 3.739 min Scan# 784
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:153 Resp: 185396

Ion	Ratio	Lower	Upper
153	100		
154	86.3	69.1	103.7

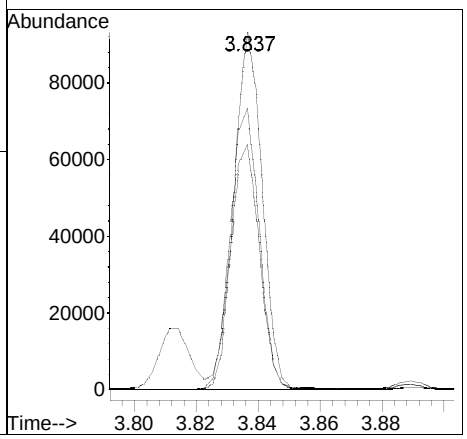


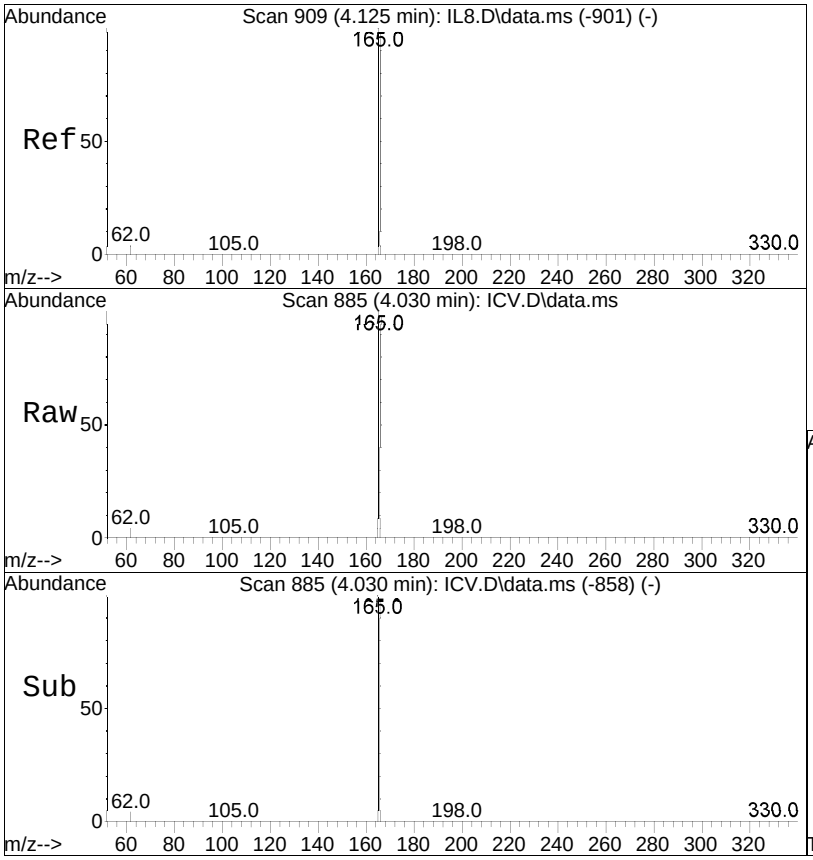


#19
2,4-Dinitrotoluene
Concen: 910.68 ng/ml
RT: 3.837 min Scan# 819
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:165 Resp: 57938

Ion	Ratio	Lower	Upper
165	100		
89	81.0	64.6	96.8
63	71.7	56.5	84.7

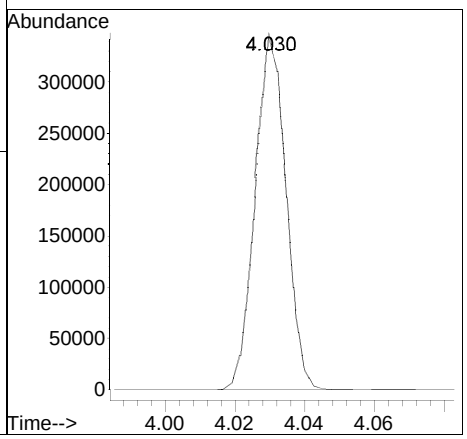


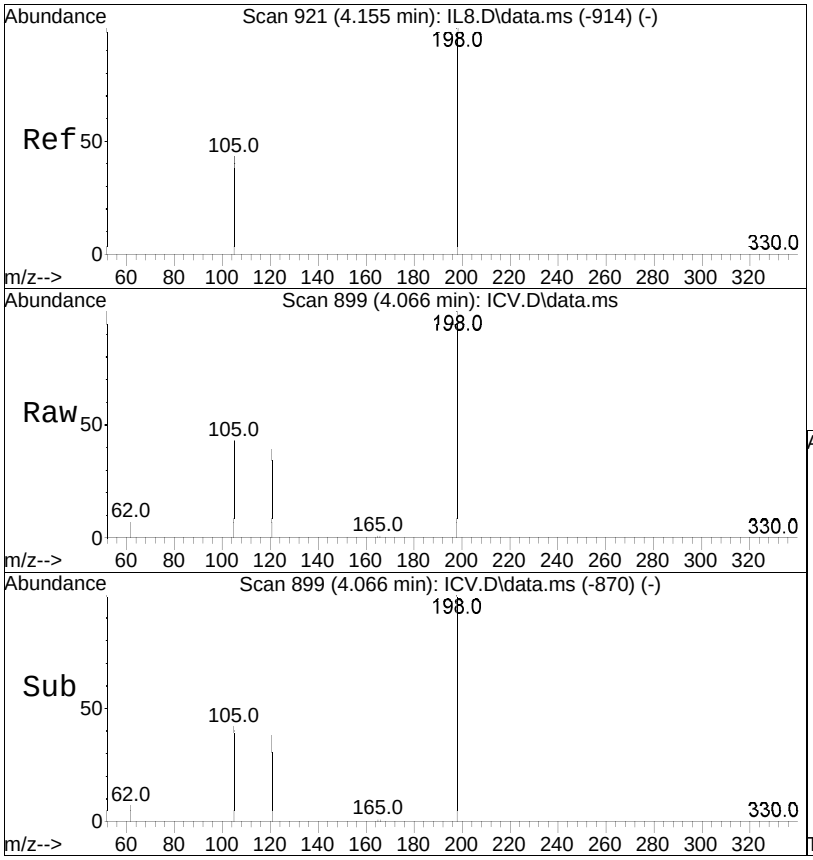


#20
Fluorene
Concen: 976.28 ng/ml
RT: 4.030 min Scan# 885
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:166 Resp: 211530

Ion	Ratio	Lower	Upper
166	100		
165	101.0	81.4	122.2

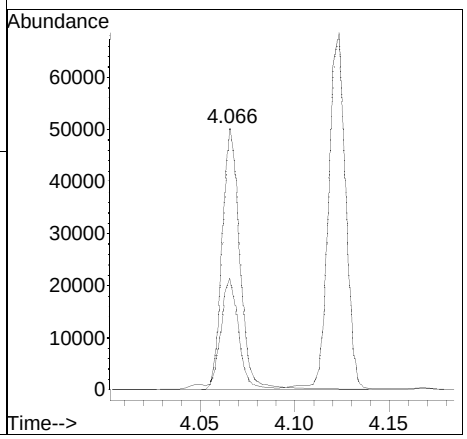


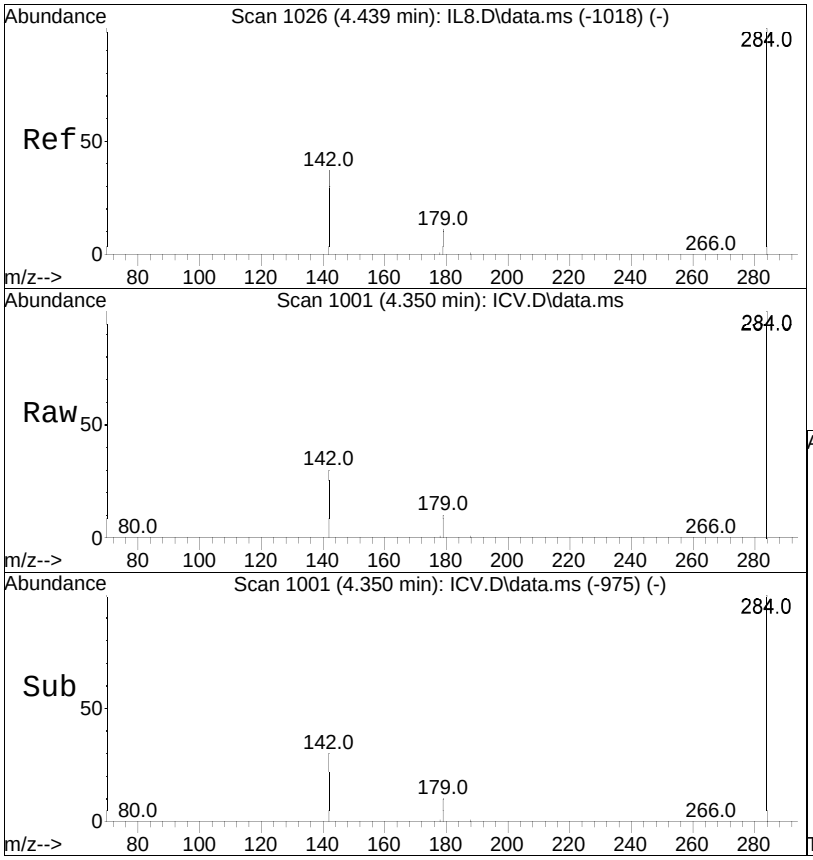


#23
4,6-Dinitro-o-cresol
Concen: 838.24 ng/ml
RT: 4.066 min Scan# 899
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:198 Resp: 32791

Ion	Ratio	Lower	Upper
198	100		
105	43.8	34.9	52.3

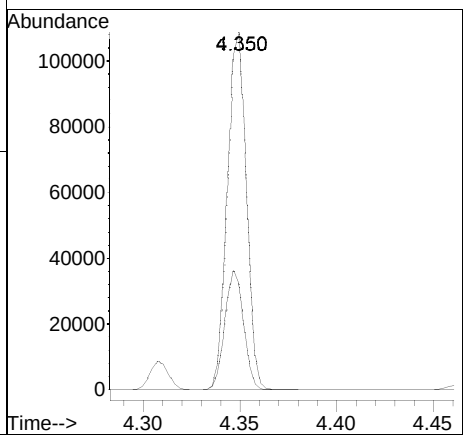


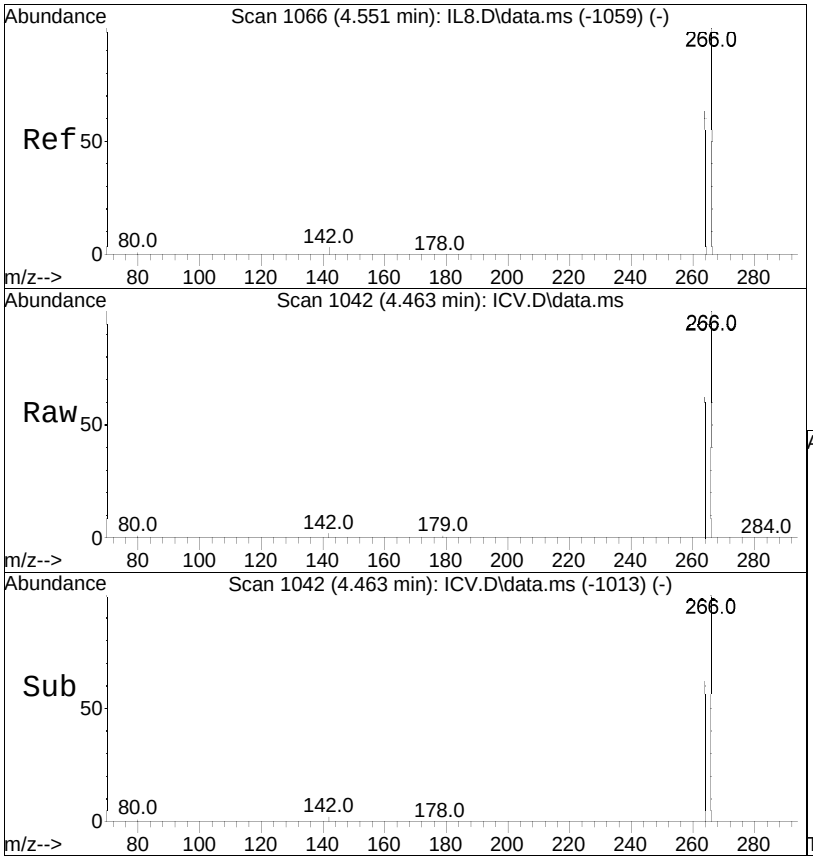


#24
Hexachlorobenzene
Concen: 928.38 ng/ml
RT: 4.350 min Scan# 1001
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:284 Resp: 72897

Ion	Ratio	Lower	Upper
284	100		
142	33.2	26.6	40.0

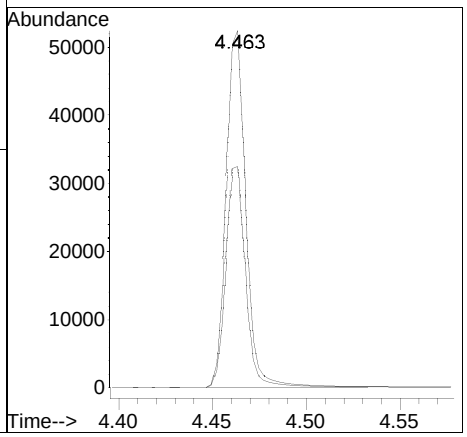


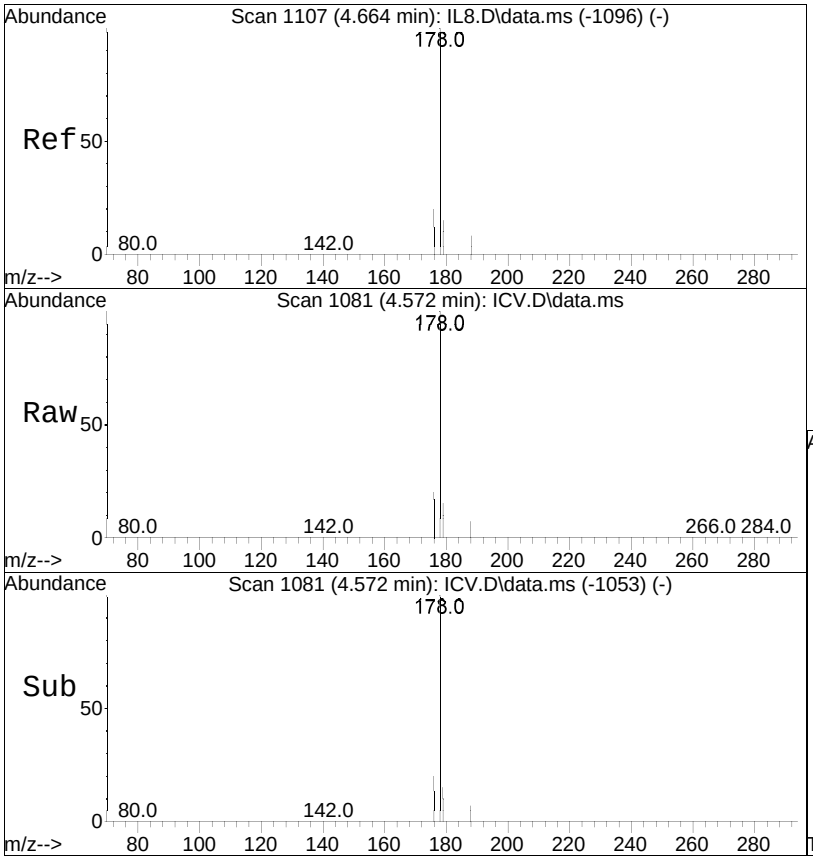


#25
Pentachlorophenol
Concen: 1009.94 ng/ml
RT: 4.463 min Scan# 1042
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:266 Resp: 37954

Ion	Ratio	Lower	Upper
266	100		
264	62.8	50.2	75.4

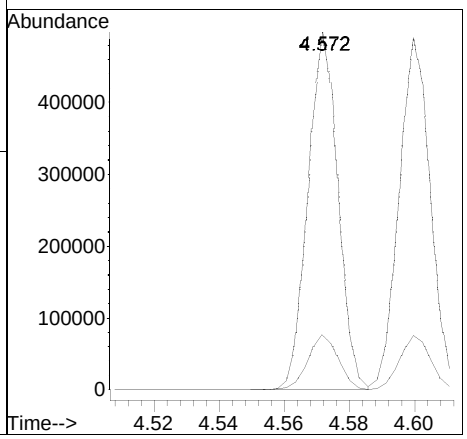


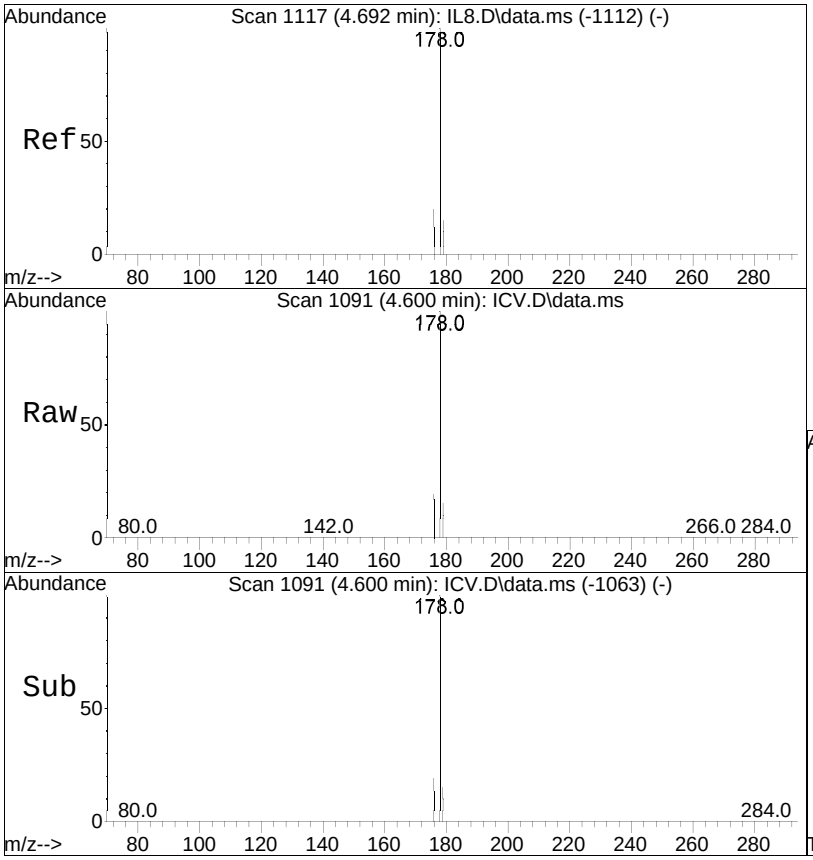


#26
Phenanthrene
Concen: 927.27 ng/ml
RT: 4.572 min Scan# 1081
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:178 Resp: 318819

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.6	18.8

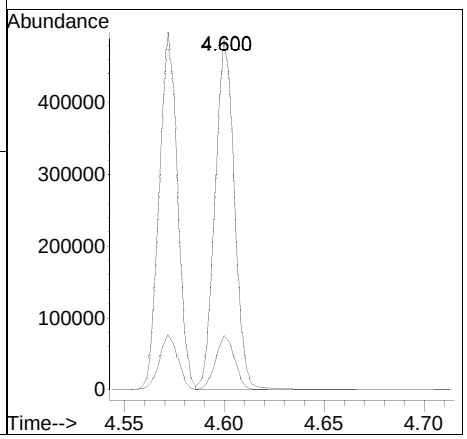


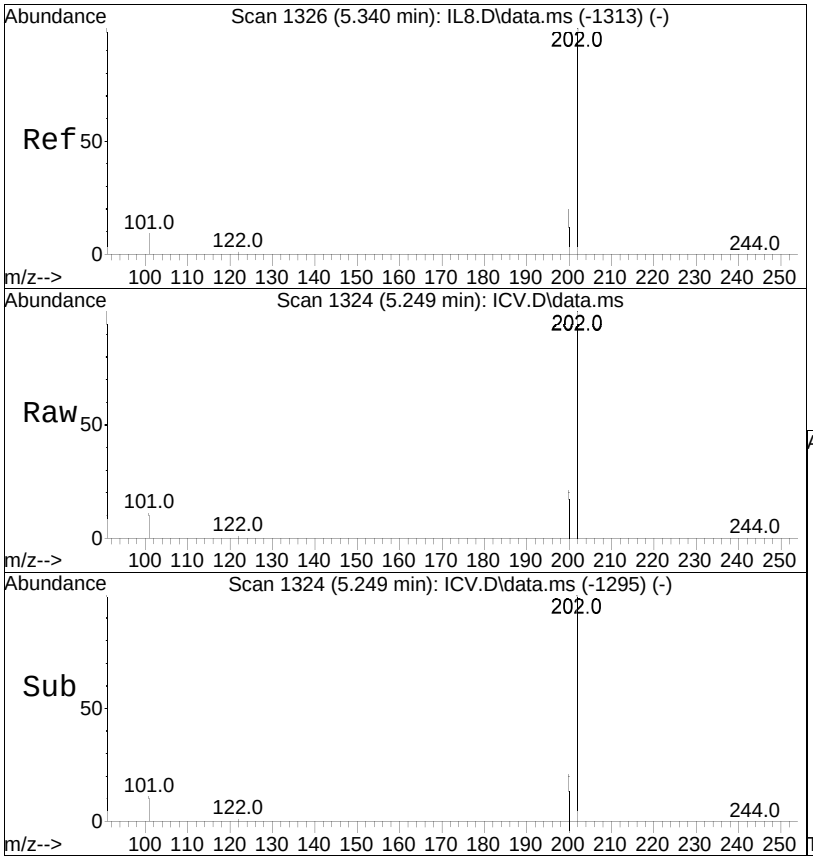


#27
Anthracene
Concen: 977.03 ng/ml
RT: 4.600 min Scan# 1091
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:178 Resp: 329588

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

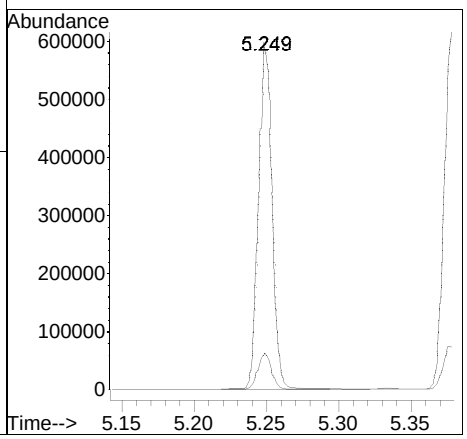


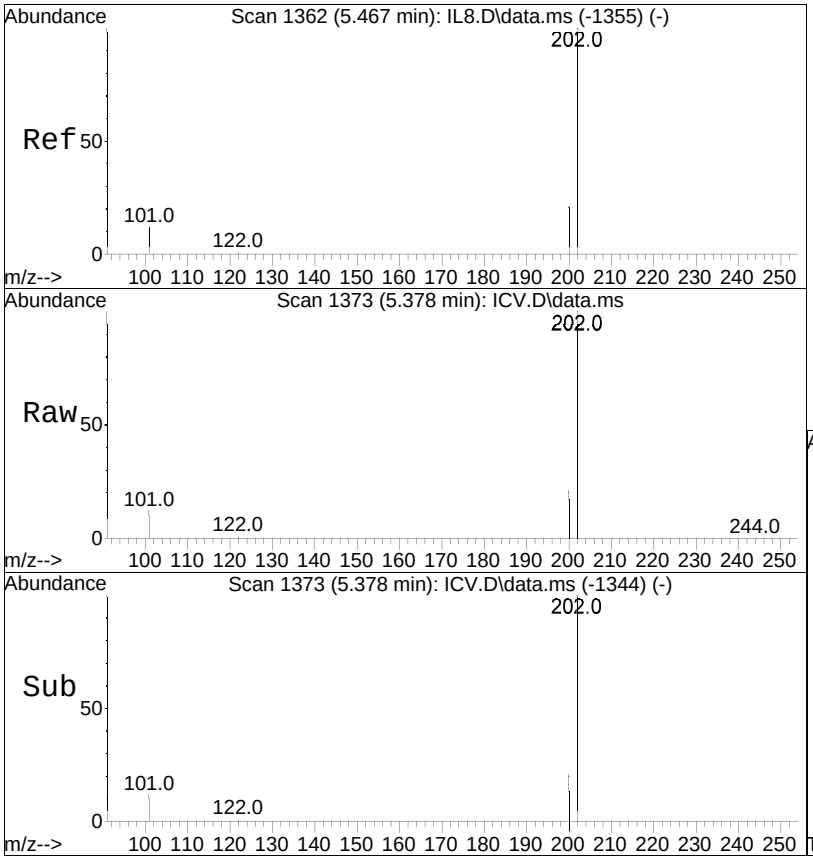


#28
Fluoranthene
Concen: 985.75 ng/ml
RT: 5.249 min Scan# 1324
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:202 Resp: 392481

Ion	Ratio	Lower	Upper
202	100		
101	10.5	8.3	12.5

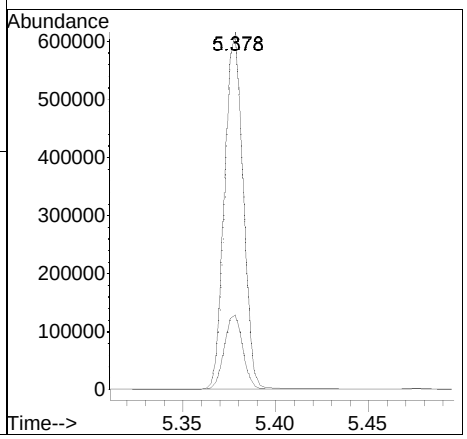


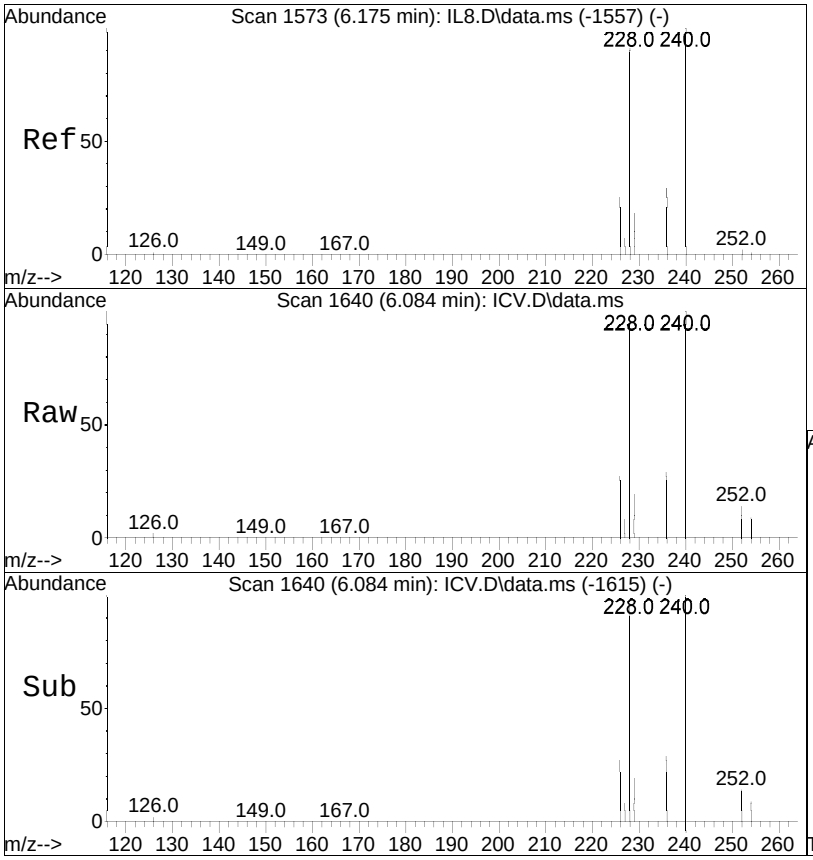


#29
Pyrene
Concen: 999.02 ng/ml
RT: 5.378 min Scan# 1373
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:202 Resp: 420626

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3

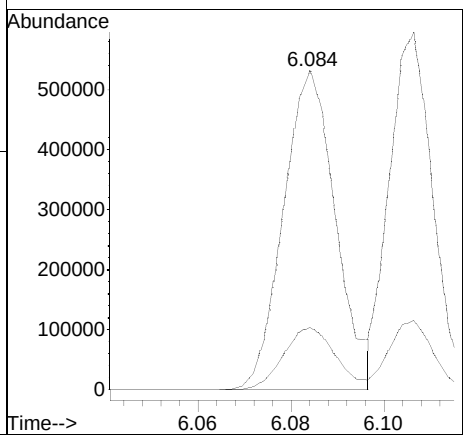


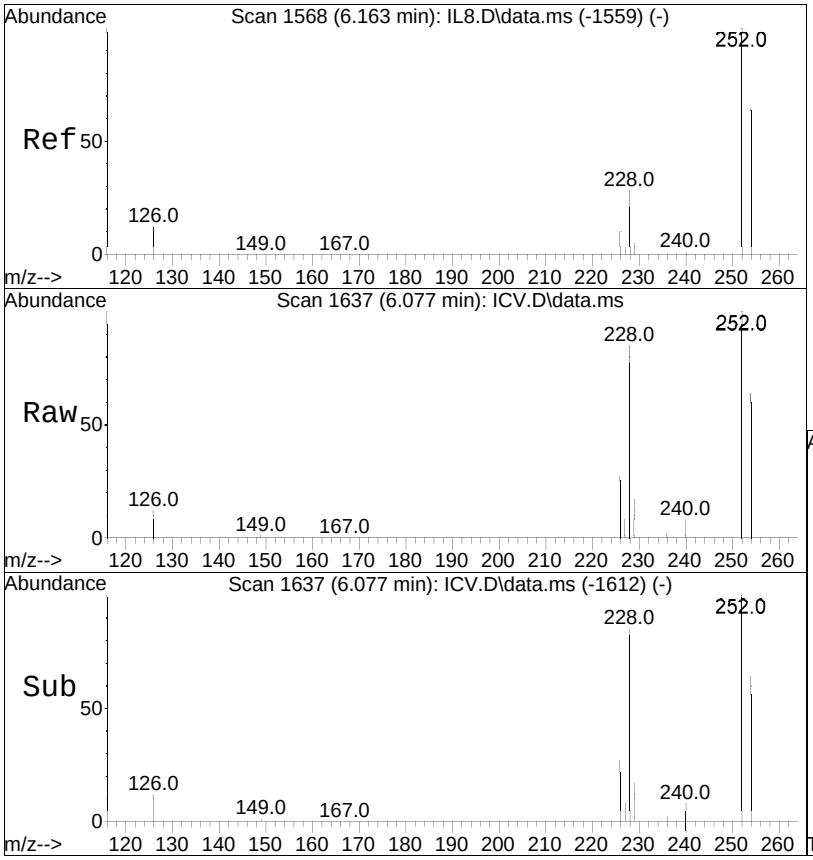


#32
Benzo[a]anthracene
Concen: 994.31 ng/ml
RT: 6.084 min Scan# 1640
Delta R.T. -0.018 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:228 Resp: 416376

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.6	23.4

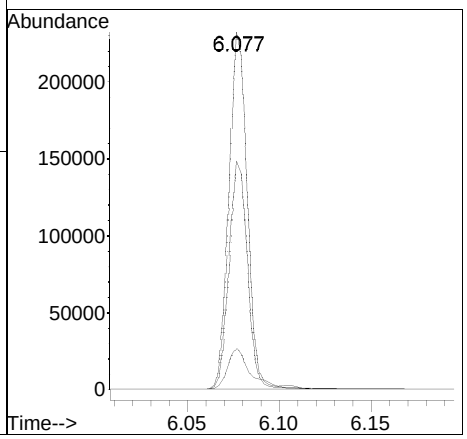


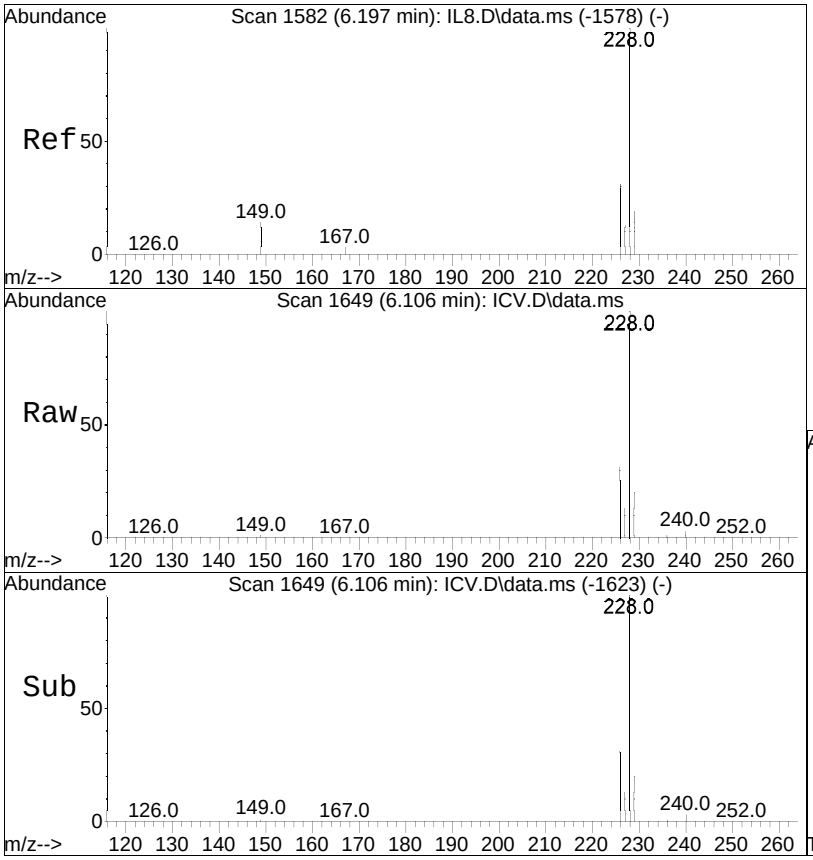


#33
3,3'-Dichlorobenzene
Concen: 1072.10 ng/ml
RT: 6.077 min Scan# 1637
Delta R.T. -0.018 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:252 Resp: 159820

Ion	Ratio	Lower	Upper
252	100		
126	14.2	11.3	16.9
254	64.3	51.4	77.0

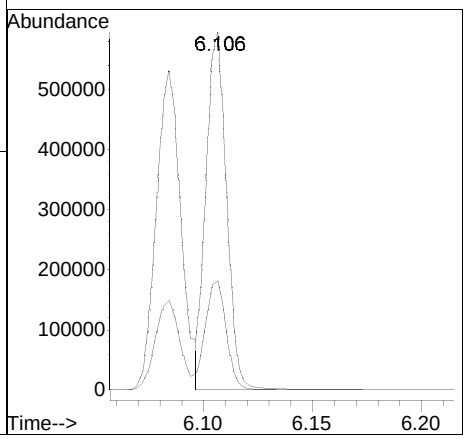


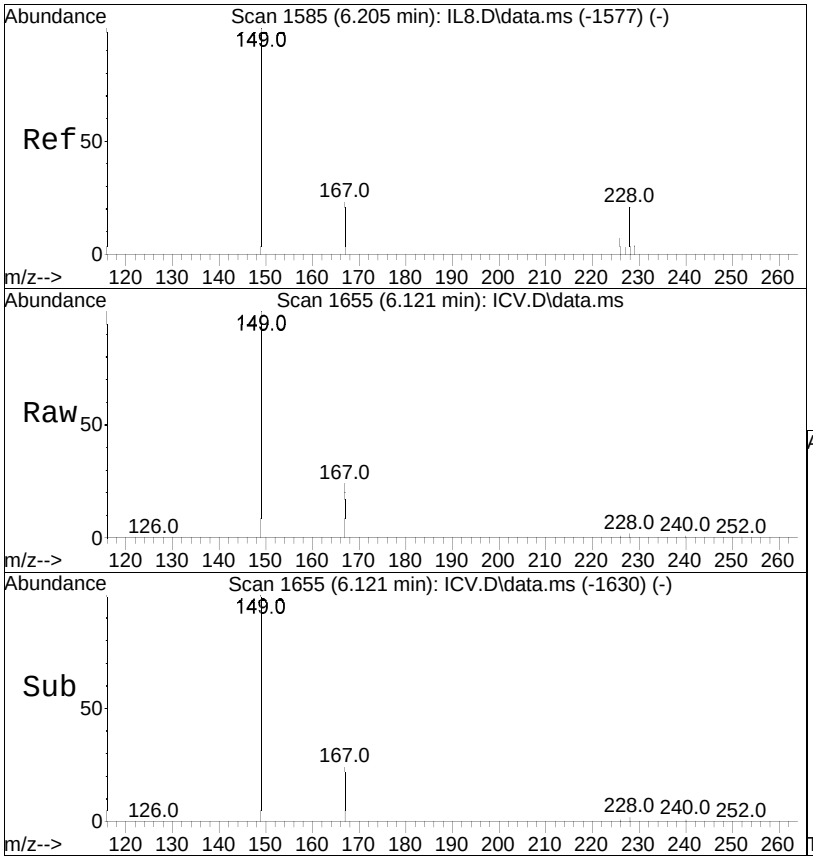


#34
Chrysene
Concen: 980.20 ng/ml
RT: 6.106 min Scan# 1649
Delta R.T. -0.016 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:228 Resp: 387154

Ion	Ratio	Lower	Upper
228	100		
226	31.8	24.6	36.8

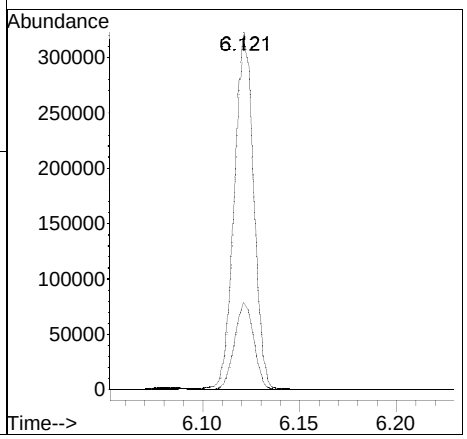


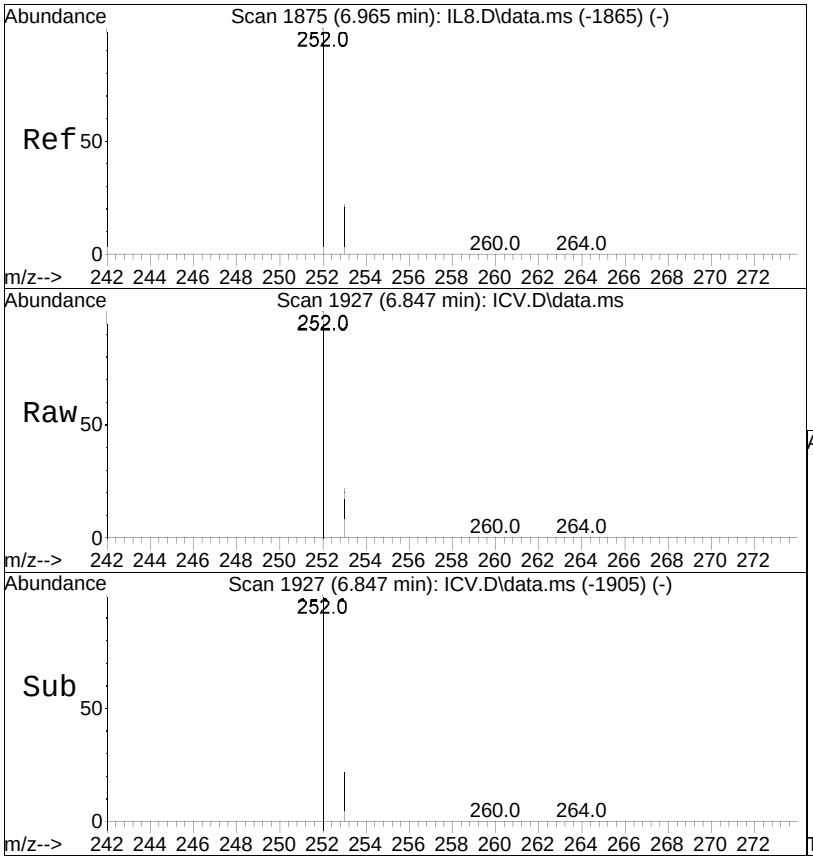


#35
Bis(2-ethylhexyl)phthalate
Concen: 884.10 ng/ml
RT: 6.121 min Scan# 1655
Delta R.T. -0.018 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:149 Resp: 221124

Ion	Ratio	Lower	Upper
149	100		
167	24.4	19.5	29.3

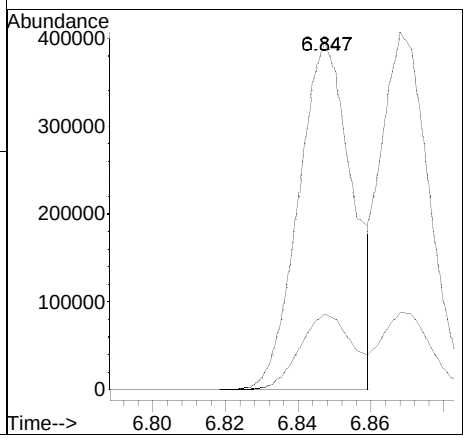


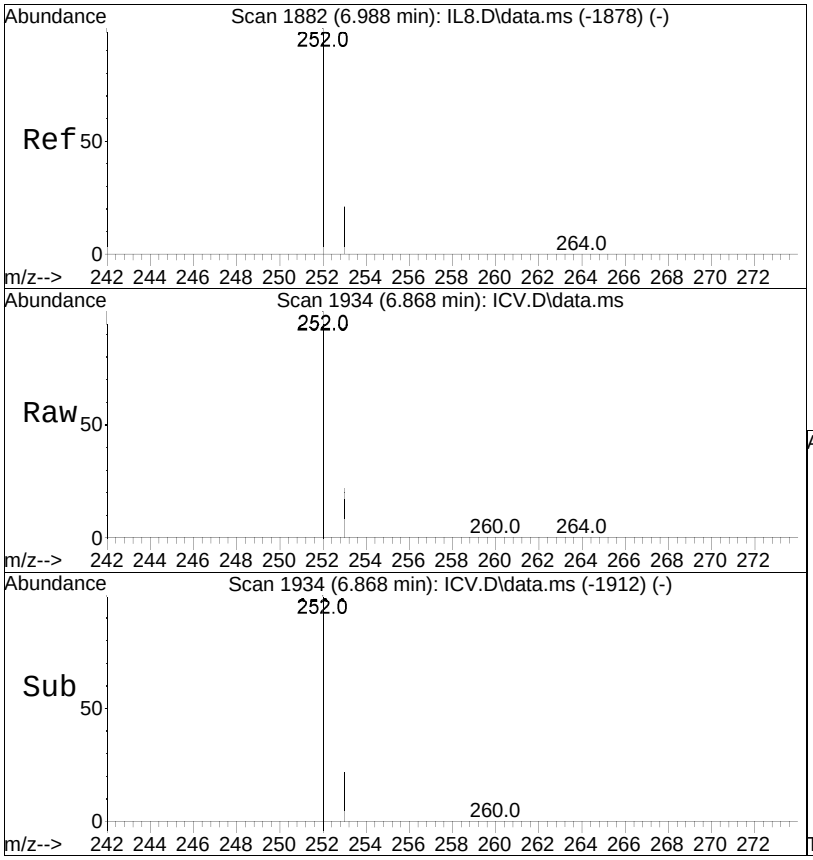


#37
Benzo[b]fluoranthene
Concen: 1048.15 ng/ml
RT: 6.847 min Scan# 1927
Delta R.T. -0.016 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:252 Resp: 411219

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

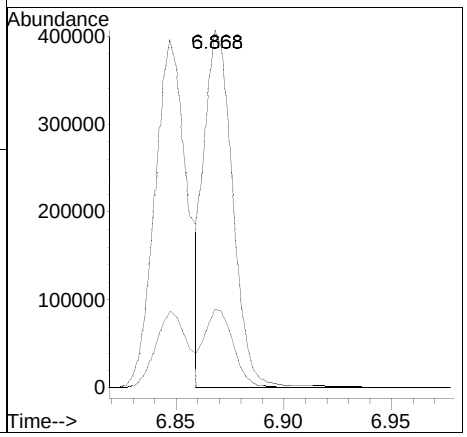


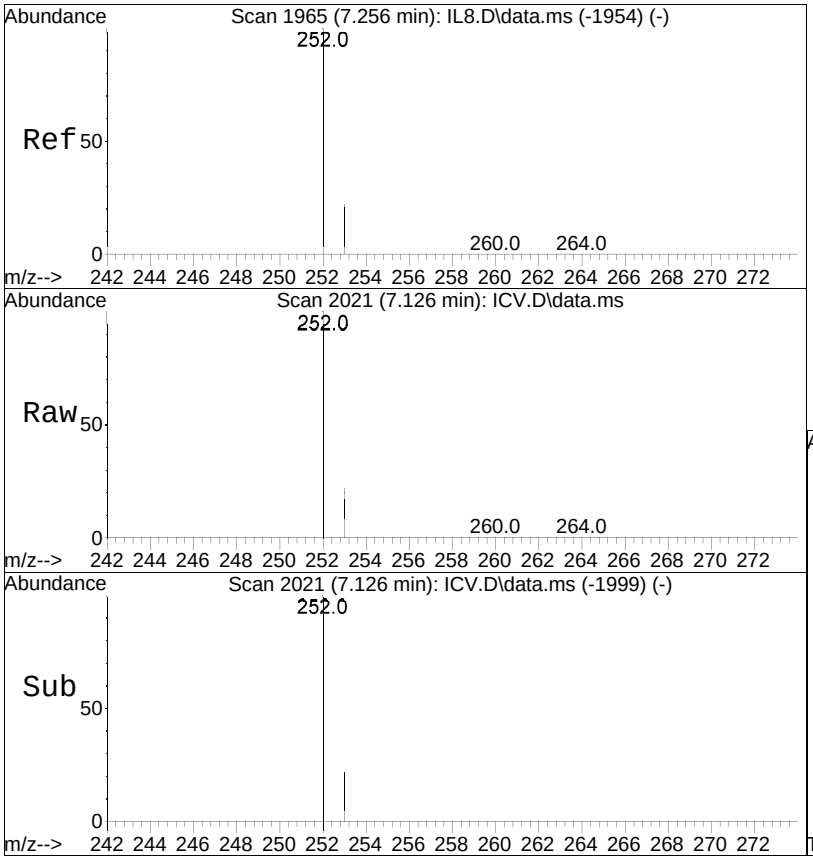


#38
Benzo[k]fluoranthene
Concen: 962.43 ng/ml
RT: 6.868 min Scan# 1934
Delta R.T. -0.016 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:252 Resp: 370464

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3

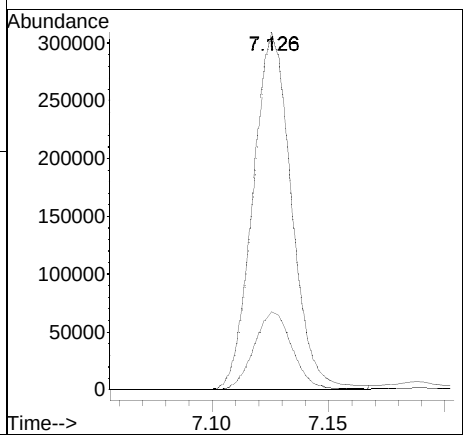


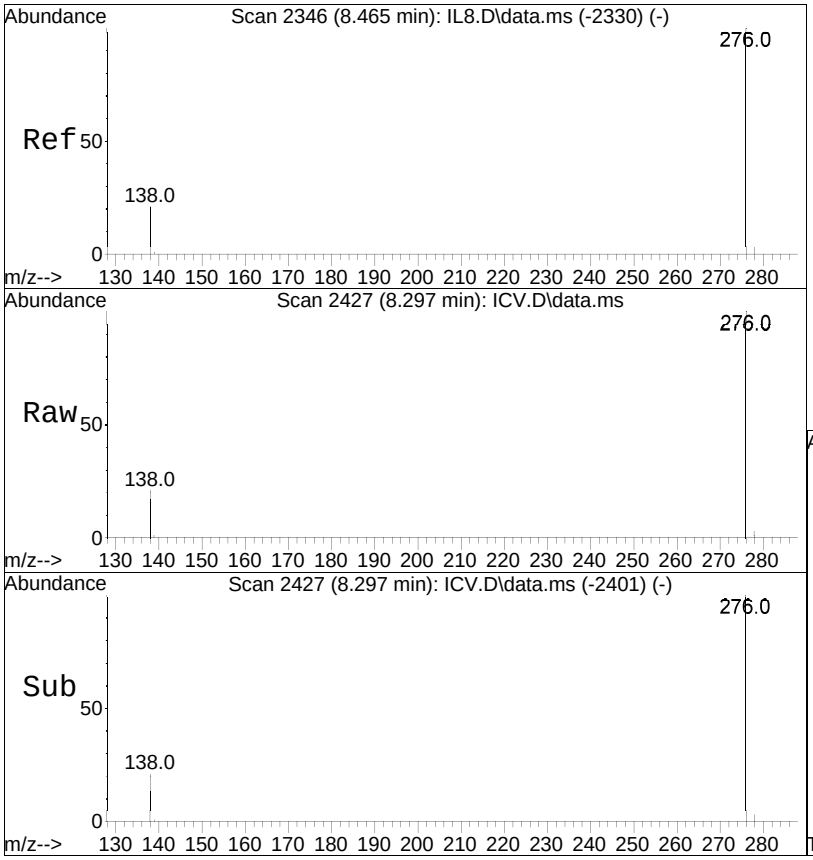


#39
Benzo[a]pyrene
Concen: 1047.75 ng/ml
RT: 7.126 min Scan# 2021
Delta R.T. -0.015 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:252 Resp: 351911

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

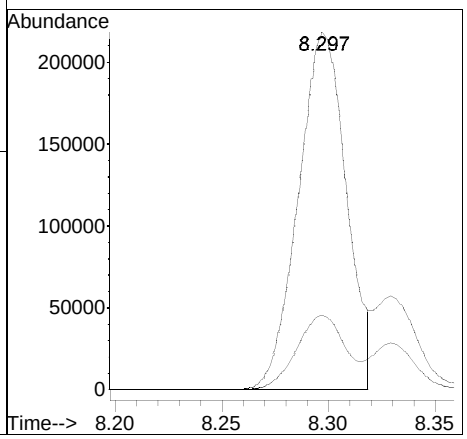


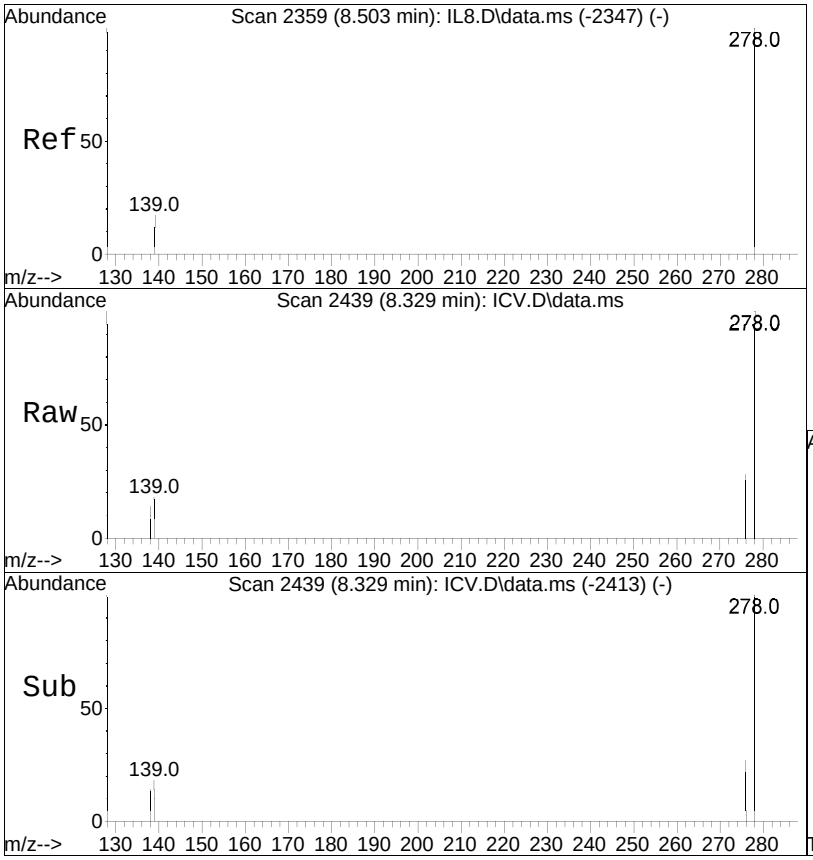


#40
Indeno[1,2,3-cd]pyrene
Concen: 1029.51 ng/ml
RT: 8.297 min Scan# 2427
Delta R.T. -0.011 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:276 Resp: 340008

Ion	Ratio	Lower	Upper
276	100		
138	21.5	16.5	24.7

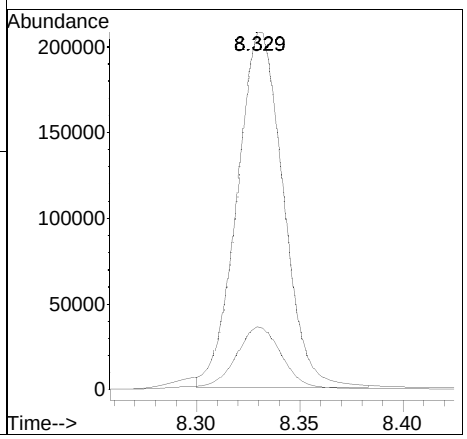


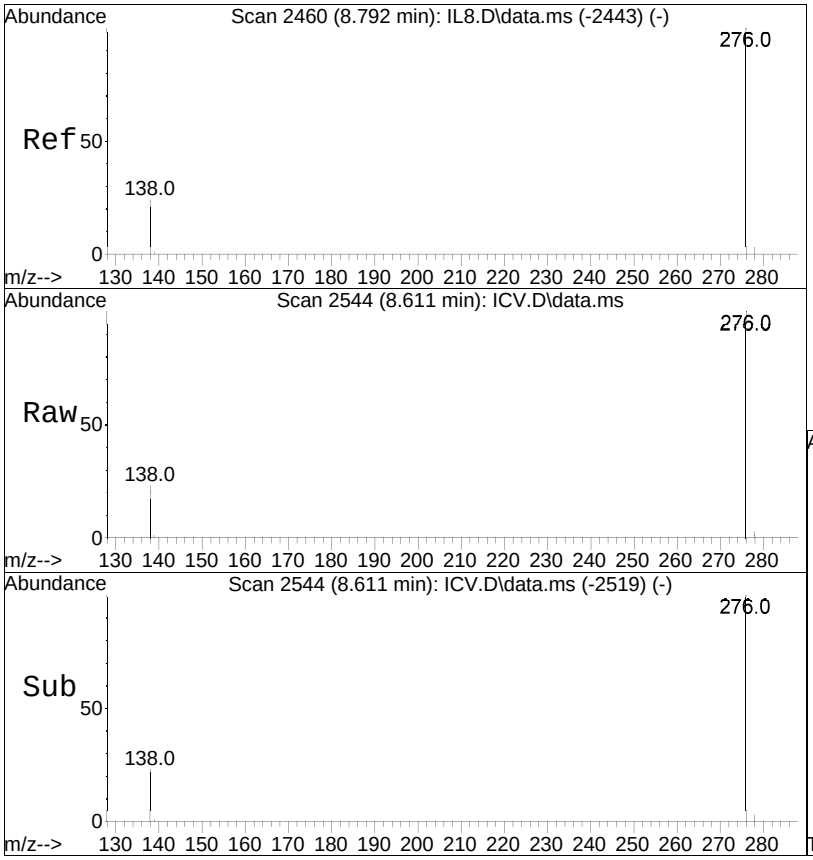


#41
Dibenzo[a,h]anthracene
Concen: 1027.74 ng/ml M6
RT: 8.329 min Scan# 2439
Delta R.T. -0.011 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:278 Resp: 320729

Ion	Ratio	Lower	Upper
278	100		
139	18.2	14.5	21.7

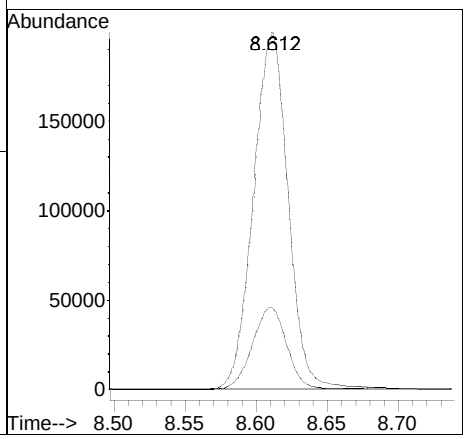




#42
Benzo[g,h,i]perylene
Concen: 992.96 ng/ml
RT: 8.611 min Scan# 2544
Delta R.T. -0.011 min
Lab File: ICV.D
Acq: 25 Sep 2024 03:35 am

Tgt Ion:276 Resp: 332724

Ion	Ratio	Lower	Upper
276	100		
138	23.2	18.6	27.8

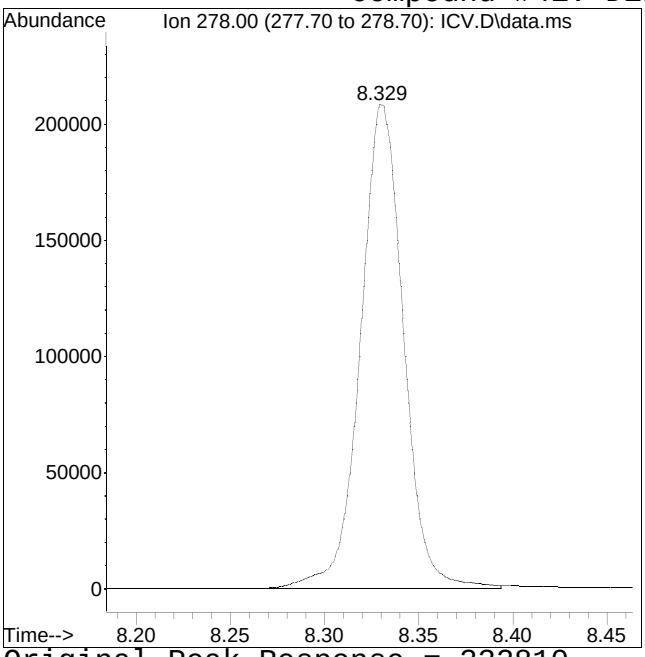


Manual Integration Report

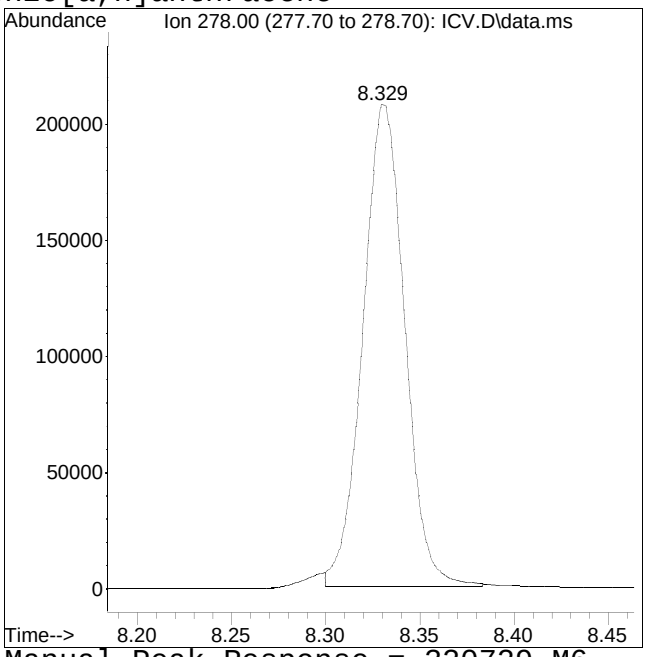
Data Path : I:\8270SIM\sv120\240925RVTQ
Data File : ICV.D
Date Inj'd : 9/25/2024 3:35 am
Sample : CQICV,32,,1000.0ng/mL lot

Method : SIM-RVT_240925_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/25/2024 6:29 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 332810



Manual Peak Response = 320729 M6

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

Evaluate Relative Error Report SV120

Method Path : I:\8270SIM\sv120\240925RVTical\
Method File : SIM-RVT_240925_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Sep 25 11:34:07 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
15 T	2,6-Dinitrotoluene	L	ng/ml	1000.0	930.350	-7.0	40.00	45.861	14.7
19 T	2,4-Dinitrotoluene	L	ng/ml	1000.0	944.939	-5.5	40.00	45.526	13.8
23 T	4,6-Dinitro-o-cresol	L	ng/ml	1000.0	907.573	-9.2	40.00	49.205	23.0
25 T	Pentachlorophenol	Q	ng/ml	1000.0	1044.089	4.4	10.00	12.924	29.2
32 T	Benzo[a]anthracene	L	ng/ml	1000.0	992.014	-0.8	1.00	1.060	6.0
35 T	Bis(2-ethylhexyl)phthalate	L	ng/ml	1000.0	895.579	-10.4	40.00	50.024	25.1

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
15 T	2,6-Dinitrotoluene	Linear	0.998447	0.000000	0.165382	-0.000660423
19 T	2,4-Dinitrotoluene	Linear	0.998877	0.000000	0.396311	-0.00197905
23 T	4,6-Dinitro-o-cresol	Linear	0.997205	0.000000	0.118674	-0.000860124
25 T	Pentachlorophenol	Quadratic	0.998471	0.084679	0.0891925	-0.000128471
32 T	Benzo[a]anthracene	Linear	0.999248	0.000000	1.18947	0.00302116
35 T	Bis(2-ethylhexyl)phthalate	Linear	0.996537	0.000000	0.738055	-0.0045008

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV120	**Calibration Date**	: 09/28/24 12:51		
Lab File ID	: CCV0928	**Init. Calib. Date(s)**	: 09/25/24	09/25/24	
Sample No	: WG1977599-3	**Init. Calib. Times**	: 00:46	03:18	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	119	0
2-Fluorophenol	1.106	1.18	.05	-6.7	20	127	0
Phenol-d6	1.298	1.43	.05	-10.2	20	129	0
Bis(2-chloroethyl)ether	1.138	1.12	.05	1.6	20	121	0
n-nitrosodi-n-propylamine	0.77	0.828	.05	-7.5	20	128	0
Hexachloroethane	0.49	0.509	.05	-3.9	20	127	0
Nitrobenzene-d5	1.097	1.238	.05	-12.9	20	129	0
Naphthalene-d8	1	1	.05	0	20	119	0
Naphthalene	0.997	0.978	.05	1.9	20	124	0
Hexachlorobutadiene	0.191	0.195	.05	-2.1	20	127	0
2-Methylnaphthalene	0.627	0.666	.05	-6.2	20	127	0
1-Methylnaphthalene	0.605	0.611	.05	-1	20	126	0
2-Fluorobiphenyl	0.759	0.773	.05	-1.8	20	126	0
2-Chloronaphthalene	0.654	0.679	.05	-3.8	20	126	0
2,6-Dinitrotoluene	1000	1008.465	.05	-0.8	20	130	0
Acenaphthylene	0.951	1.015	.05	-6.7	20	126	0
Acenaphthene-d10	1	1	.05	0	20	120	0
Acenaphthene	1.195	1.207	.05	-1	20	125	0
2,4-Dinitrotoluene	1000	1013.249	.05	-1.3	20	129	0
Fluorene	1.32	1.352	.05	-2.4	20	124	0
2,4,6-Tribromophenol	0.179	0.217	.05	-21.2*	20	133	0
Phenanthrene-d10	1	1	.05	0	20	116	0
4,6-Dinitro-o-cresol	1000	1021.221	.05	-2.1	20	130	0
Hexachlorobenzene	0.23	0.233	.05	-1.3	20	121	0
Pentachlorophenol	1000	1157.13	.05	-15.7	20	131	0
Phenanthrene	1.007	1.023	.05	-1.6	20	121	0
Anthracene	0.988	1.052	.05	-6.5	20	124	0
Fluoranthene	1.166	1.178	.05	-1	20	118	0
Pyrene	1.233	1.247	.05	-1.1	20	118	0
4-Terphenyl-d14	0.701	0.684	.05	2.4	20	114	0
Chrysene-d12	1	1	.05	0	20	100	0
Benzo[a]anthracene	1000	1062.771	.05	-6.3	20	107	0
3,3'-Dichlorobenzene	0.428	0.51	.05	-19.2	20	115	0
Chrysene	1.133	1.243	.05	-9.7	20	106	0
Bis(2-ethylhexyl)phthalate	1000	1105.513	.05	-10.6	20	124	0
Perylene-d12	1	1	.05	0	20	92	0
Benzo[b]fluoranthene	1.104	1.211	.05	-9.7	20	96	0
Benzo[k]fluoranthene	1.084	1.239	.05	-14.3	20	104	0
Benzo[a]pyrene	0.946	1.109	.05	-17.2	20	101	0
Indeno[1,2,3-cd]pyrene	0.93	1.128	.05	-21.3*	20	103	0
Dibenzo[a,h]anthracene	0.879	1.021	.05	-16.2	20	99	0
Benzo[g,h,i]perylene	0.943	1.043	.05	-10.6	20	97	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : ccv0928.D
Acq On : 28 Sep 2024 12:51 pm
Operator : SV120:rp
Sample : WG1977599-3,32,,ICV 10884 (0921)
Misc : WG1977599,,ical21522
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 28 13:10:06 2024
Quant Method : I:\8270SIM\sv120\240928RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 13:11:13 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	119	0.00
2	s	2-Fluorophenol	1.106	1.180	-6.7	127	0.00
3	s	Phenol-d6	1.298	1.430	-10.2	129	0.00
4	T	Bis(2-chloroethyl)ether	1.138	1.120	1.6	121	0.00
5	T	n-nitrosodi-n-propylamine	0.770	0.828	-7.5	128	0.00
6	t	Hexachloroethane	0.490	0.509	-3.9	127	0.00
7	s	Nitrobenzene-d5	1.097	1.238	-12.9	129	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	119	0.00
9	t	Naphthalene	0.997	0.978	1.9	124	0.00
10	t	Hexachlorobutadiene	0.191	0.195	-2.1	127	0.00
11	t	2-Methylnaphthalene	0.627	0.666	-6.2	127	0.00
12	t	1-Methylnaphthalene	0.605	0.611	-1.0	126	0.00
13	s	2-Fluorobiphenyl	0.759	0.773	-1.8	126	0.00
14	t	2-Chloronaphthalene	0.654	0.679	-3.8	126	0.00
15	t	2,6-Dinitrotoluene	*1000.000	1008.465	-0.8	130	0.00
16	t	Acenaphthylene	0.951	1.015	-6.7	126	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	120	0.00
18	t	Acenaphthene	1.195	1.207	-1.0	125	0.00
19	t	2,4-Dinitrotoluene	*1000.000	1013.249	-1.3	129	0.00
20	t	Fluorene	1.320	1.352	-2.4	124	0.00
21	s	2,4,6-Tribromophenol	0.179	0.217	-21.2#	133	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	116	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	1021.221	-2.1	130	0.00
24	t	Hexachlorobenzene	0.230	0.233	-1.3	121	0.00
25	t	Pentachlorophenol	*1000.000	1157.130	-15.7	131	0.00
26	t	Phenanthrene	1.007	1.023	-1.6	121	0.00
27	t	Anthracene	0.988	1.052	-6.5	124	0.00
28	t	Fluoranthene	1.166	1.178	-1.0	118	0.00
29	t	Pyrene	1.233	1.247	-1.1	118	0.00
30	s	4-Terphenyl-d14	0.701	0.684	2.4	114	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	100	0.00
32	t	Benzo[a]anthracene	*1000.000	1062.771	-6.3	107	0.00
33	t	3,3'-Dichlorobenzene	0.428	0.510	-19.2	115	0.00
34	t	Chrysene	1.133	1.243	-9.7	106	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	1105.513	-10.6	124	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : ccv0928.D
Acq On : 28 Sep 2024 12:51 pm
Operator : SV120:rp
Sample : WG1977599-3,32,,ICV 10884 (0921)
Misc : WG1977599,,ical21522
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 28 13:10:06 2024
Quant Method : I:\8270SIM\sv120\240928RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 13:11:13 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	92	0.00
37	t	Benzo[b]fluoranthene	1.104	1.211	-9.7	96	0.00
38	t	Benzo[k]fluoranthene	1.084	1.239	-14.3	104	0.00
39	t	Benzo[a]pyrene	0.946	1.109	-17.2	101	0.00
40	t	Indeno[1,2,3-cd]pyrene	0.930	1.128	-21.3#	103	0.00
41	t	Dibenzo[a,h]anthracene	0.879	1.021	-16.2	99	0.00
42	t	Benzo[g,h,i]perylene	0.943	1.043	-10.6	97	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : ccv0928.D
Acq On : 28 Sep 2024 12:51 pm
Operator : SV120:rp
Sample : WG1977599-3,32,,ICV 10884 (0921)
Misc : WG1977599,,ical21522
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 28 13:10:06 2024
Quant Method : I:\8270SIM\sv120\240928RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 13:11:13 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.096	152	372654	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.751	136	1416081	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.722	164	810801	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.560	188	1583869	4000.000	ng/ml	0.00
31) Chrysene-d12	6.093	240	1368829	4000.000	ng/ml	0.00
36) Perylene-d12	7.190	264	1317176	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.534	112	109904	1066.675	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 53.33%			
3) Phenol-d6	1.923	99	133250	1101.763	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 55.09%			
7) Nitrobenzene-d5	2.376	82	115296	1127.781	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 112.78%			
13) 2-Fluorobiphenyl	3.347	172	273765	1018.288	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 101.83%			
21) 2,4,6-Tribromophenol	4.166	330	44031	1214.103	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 60.71%			
30) 4-Terphenyl-d14	5.475	244	270949	976.776	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 48.84%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.967	93	104375	984.511	ng/ml	98
5) n-nitrosodi-n-propylamine	2.298	70	77168	1075.904	ng/ml	99
6) Hexachloroethane	2.348	117	47429	1039.516	ng/ml	99
9) Naphthalene	2.764	128	346079	980.423	ng/ml	100
10) Hexachlorobutadiene	2.836	225	69139	1023.262	ng/ml	100
11) 2-Methylnaphthalene	3.141	142	235617	1061.232	ng/ml	100
12) 1-Methylnaphthalene	3.194	142	216461	1010.573	ng/ml	99
14) 2-Chloronaphthalene	3.410	162	240305	1038.659	ng/ml	100
15) 2,6-Dinitrotoluene	3.608	165	58109	1008.465	ng/ml	99
16) Acenaphthylene	3.641	152	359347	1067.690	ng/ml	100
18) Acenaphthene	3.738	153	244631	1009.765	ng/ml	100
19) 2,4-Dinitrotoluene	3.836	165	79792	1013.249	ng/ml	98
20) Fluorene	4.029	166	274142	1024.505	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.065	198	46626	1021.221	ng/ml	99
24) Hexachlorobenzene	4.346	284	92306	1013.690	ng/ml	97
25) Pentachlorophenol	4.463	266	51887	1157.130	ng/ml	100
26) Phenanthrene	4.571	178	404972	1015.647	ng/ml	100
27) Anthracene	4.599	178	416385	1064.360	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : ccv0928.D
Acq On : 28 Sep 2024 12:51 pm
Operator : SV120:rp
Sample : WG1977599-3,32,,ICV 10884 (0921)
Misc : WG1977599,,ical21522
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 28 13:10:06 2024
Quant Method : I:\8270SIM\sv120\240928RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 13:11:13 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.248	202	466380	1010.059	ng/ml	100
29) Pyrene	5.377	202	493895	1011.512	ng/ml	100
32) Benzo[a]anthracene	6.086	228	436733	1062.771	ng/ml	100
33) 3,3'-Dichlorobenzene	6.079	252	174527	1192.266	ng/ml	100
34) Chrysene	6.106	228	425367	1096.737	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.121	149	273056	1105.513	ng/ml	100
37) Benzo[b]fluoranthene	6.850	252	398751	1096.382	ng/ml	96
38) Benzo[k]fluoranthene	6.870	252	407981	1143.331	ng/ml	97
39) Benzo[a]pyrene	7.128	252	365316	1173.277	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.299	276	371468	1213.310	ng/ml	98
41) Dibenzo[a,h]anthracene	8.331	278	336358M6	1162.671	ng/ml	
42) Benzo[g,h,i]perylene	8.613	276	343551	1105.975	ng/ml	99

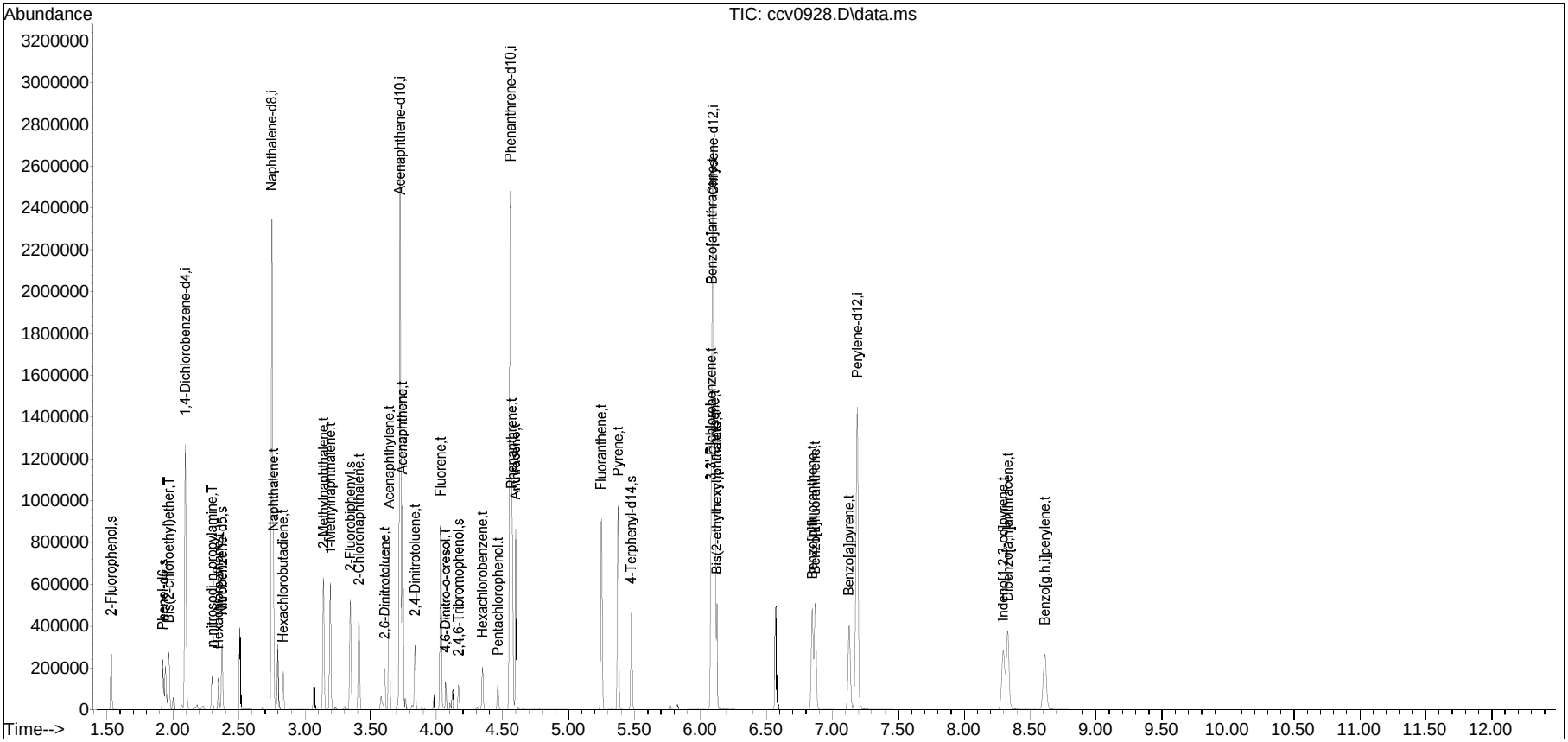
(#) = qualifier out of range (m) = manual integration (+) = signals summed

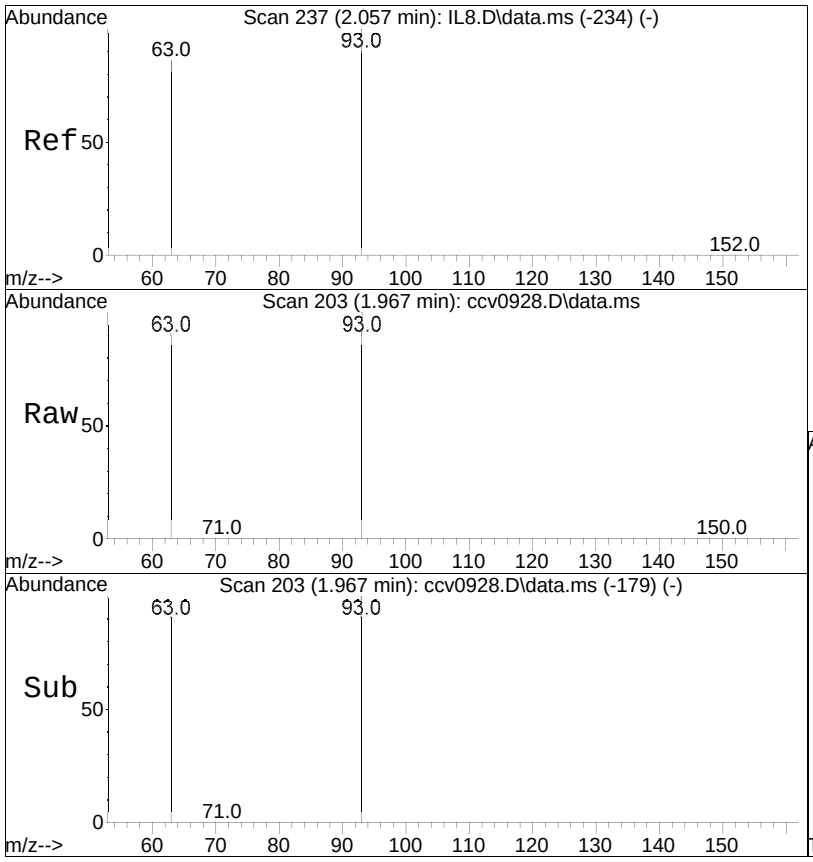
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : ccv0928.D
Acq On : 28 Sep 2024 12:51 pm
Operator : SV120:rp
Sample : WG1977599-3,32,,ICV 10884 (0921)
Misc : WG1977599,,ical21522
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 28 13:10:06 2024
Quant Method : I:\8270SIM\sv120\240928RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 13:11:13 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

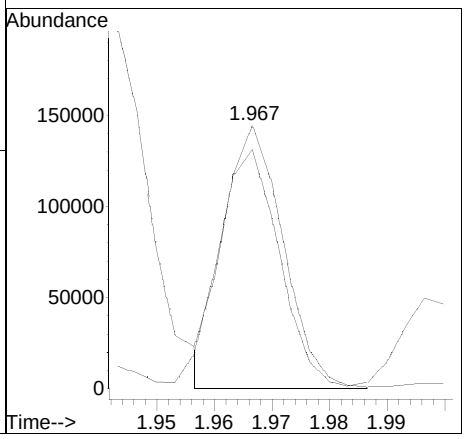


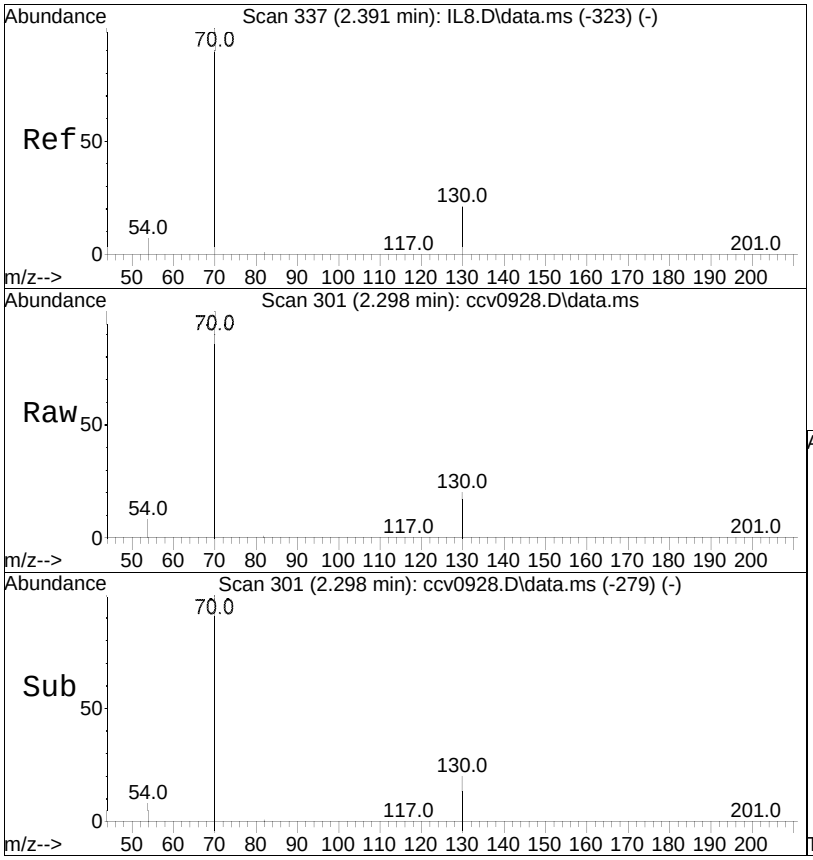


#4
Bis(2-chloroethyl)ether
Concen: 984.51 ng/ml
RT: 1.967 min Scan# 203
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion: 93 Resp: 104375

Ion	Ratio	Lower	Upper
93	100		
63	93.3	73.0	109.4

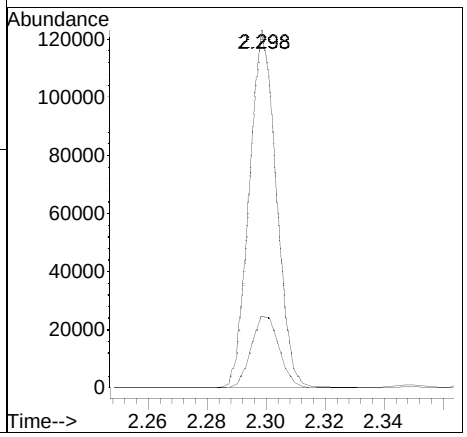


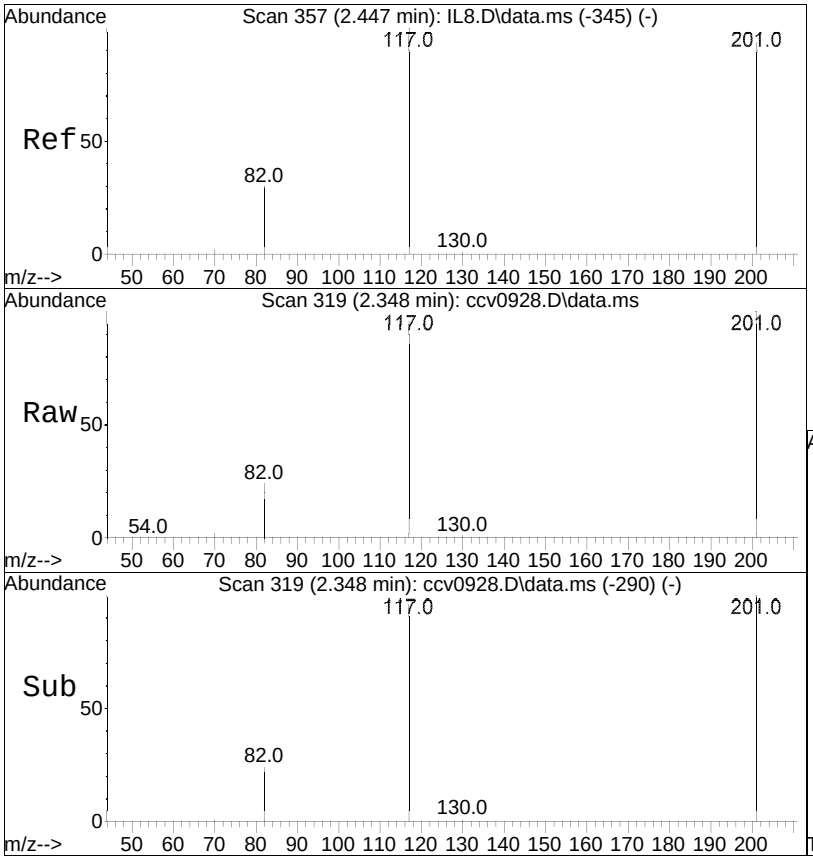


#5
n-nitrosodi-n-propylamine
Concen: 1075.90 ng/ml
RT: 2.298 min Scan# 301
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion: 70 Resp: 77168

Ion	Ratio	Lower	Upper
70	100		
130	20.8	16.4	24.6

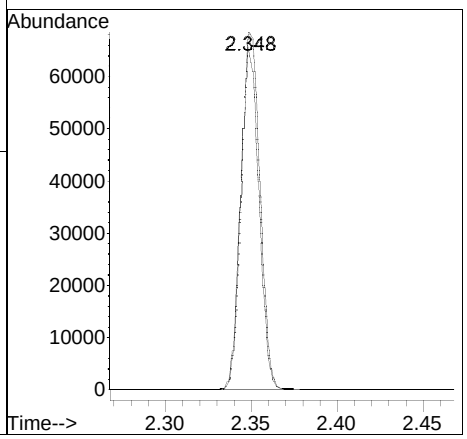


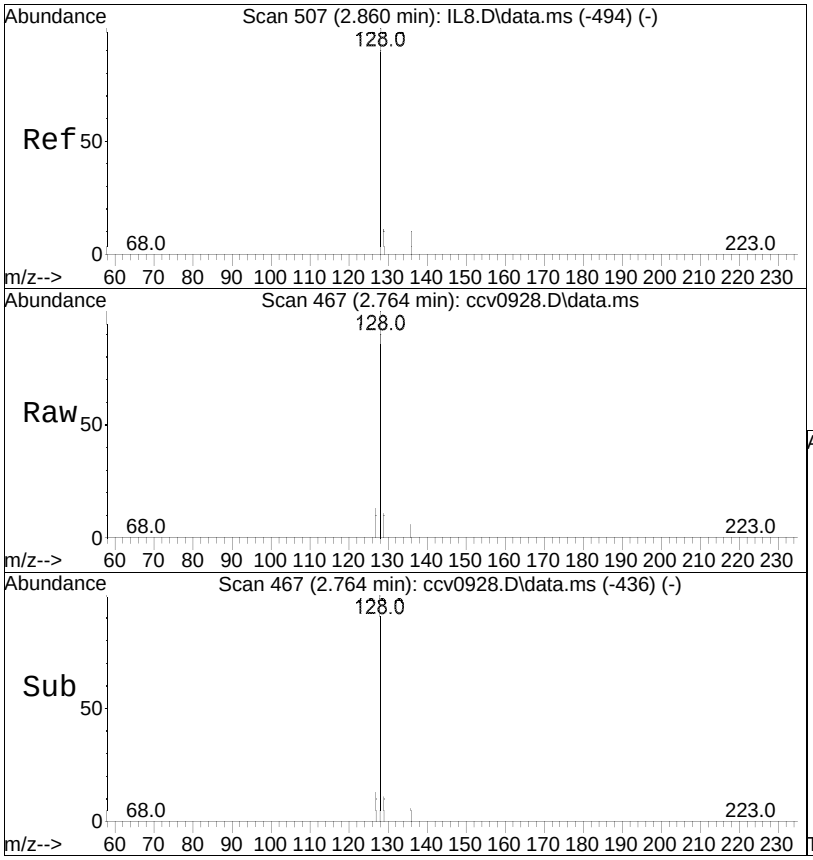


#6
Hexachloroethane
Concen: 1039.52 ng/ml
RT: 2.348 min Scan# 319
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:117 Resp: 47429

Ion	Ratio	Lower	Upper
117	100		
201	106.9	86.2	129.2

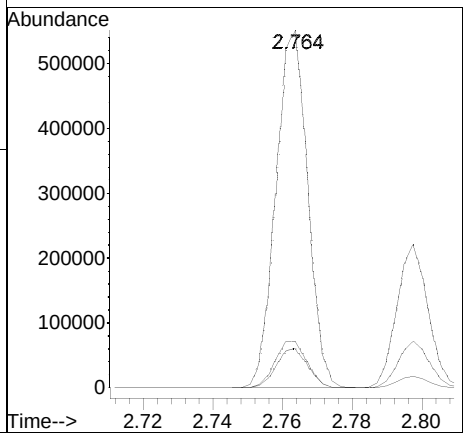


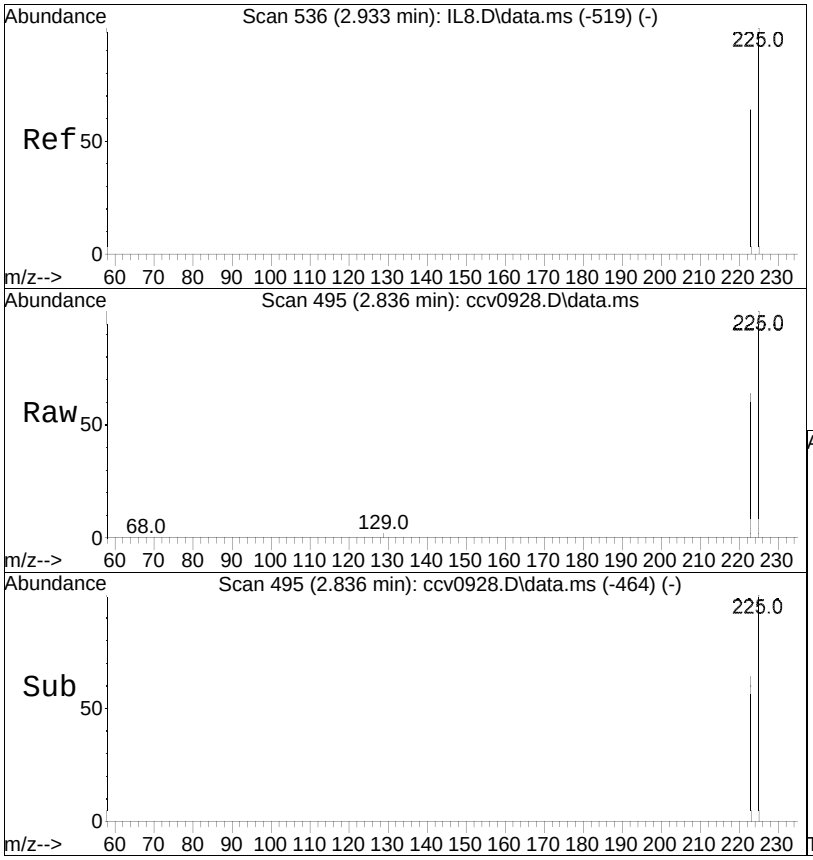


#9
Naphthalene
Concen: 980.42 ng/ml
RT: 2.764 min Scan# 467
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:128 Resp: 346079

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.3	10.6	16.0

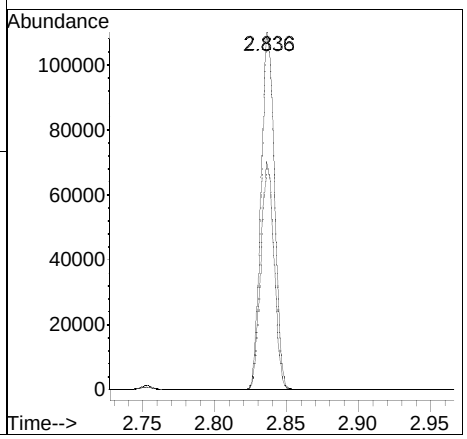


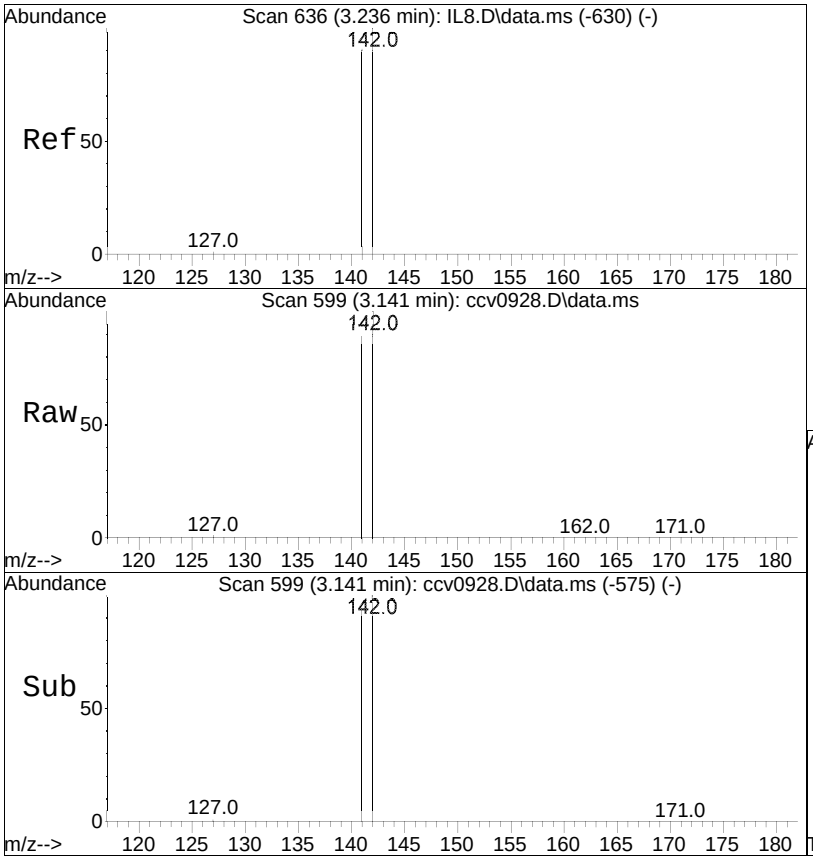


#10
Hexachlorobutadiene
Concen: 1023.26 ng/ml
RT: 2.836 min Scan# 495
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:225 Resp: 69139

Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.3	75.5

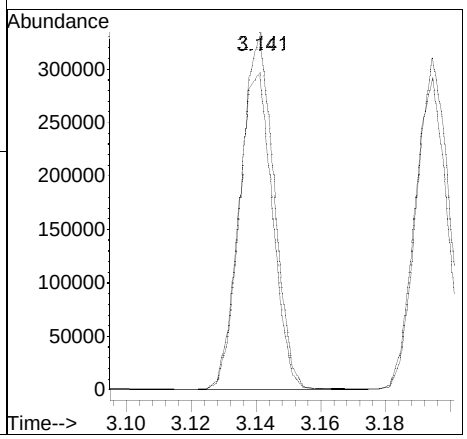


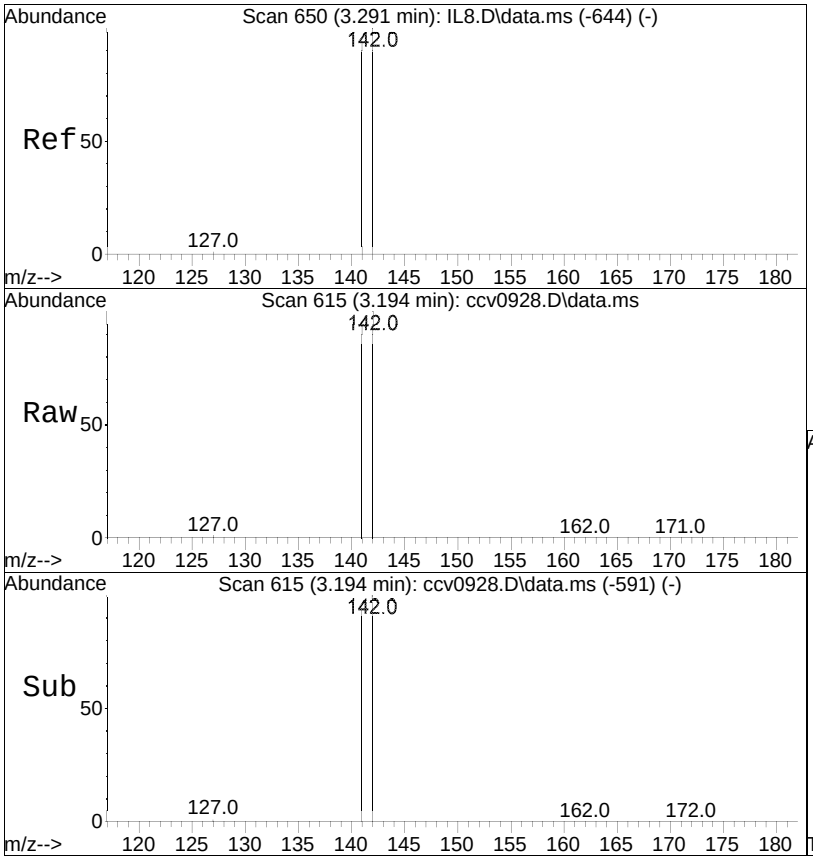


#11
2-Methylnaphthalene
Concen: 1061.23 ng/ml
RT: 3.141 min Scan# 599
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:142 Resp: 235617

Ion	Ratio	Lower	Upper
142	100		
141	91.4	73.3	109.9

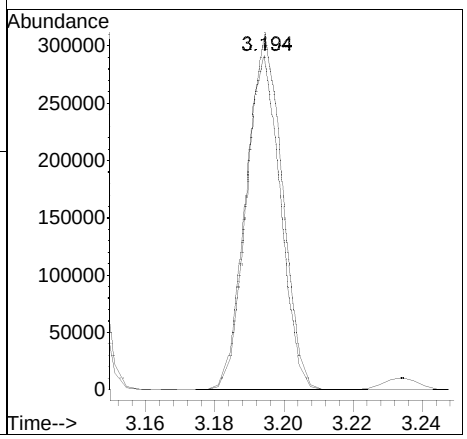


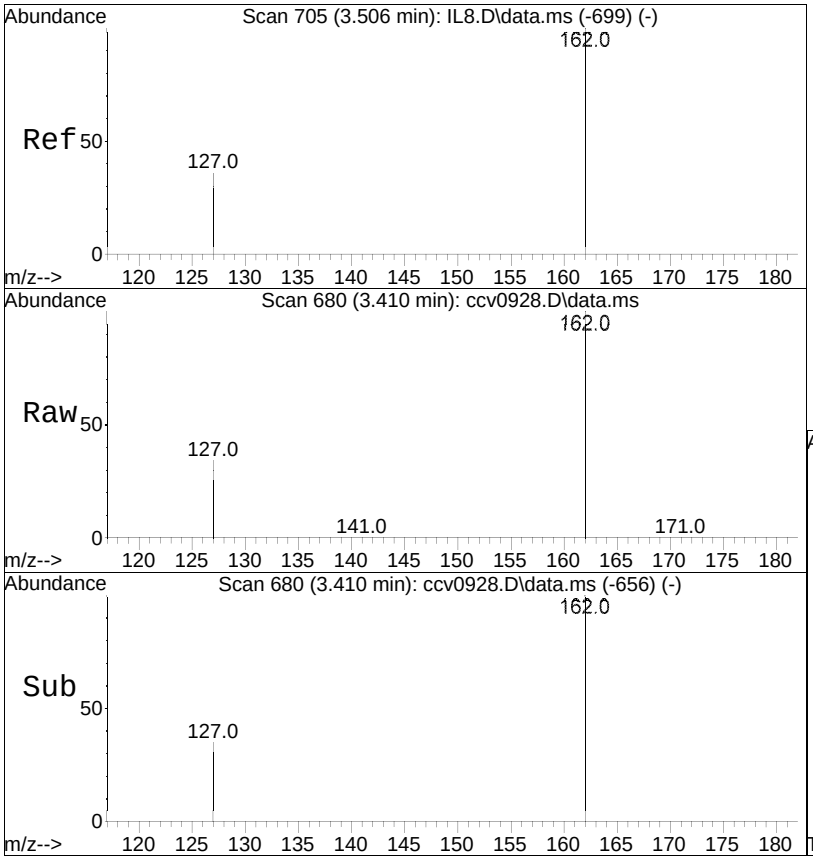


#12
1-Methylnaphthalene
Concen: 1010.57 ng/ml
RT: 3.194 min Scan# 615
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:142 Resp: 216461

Ion	Ratio	Lower	Upper
142	100		
141	94.3	74.9	112.3

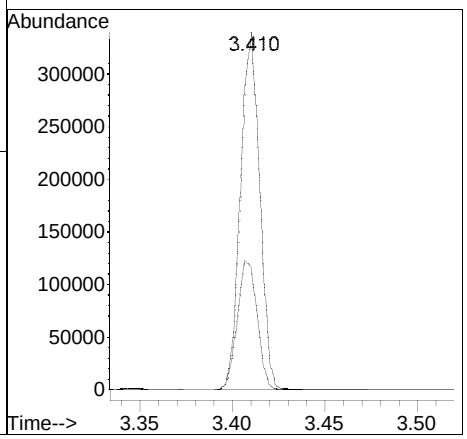


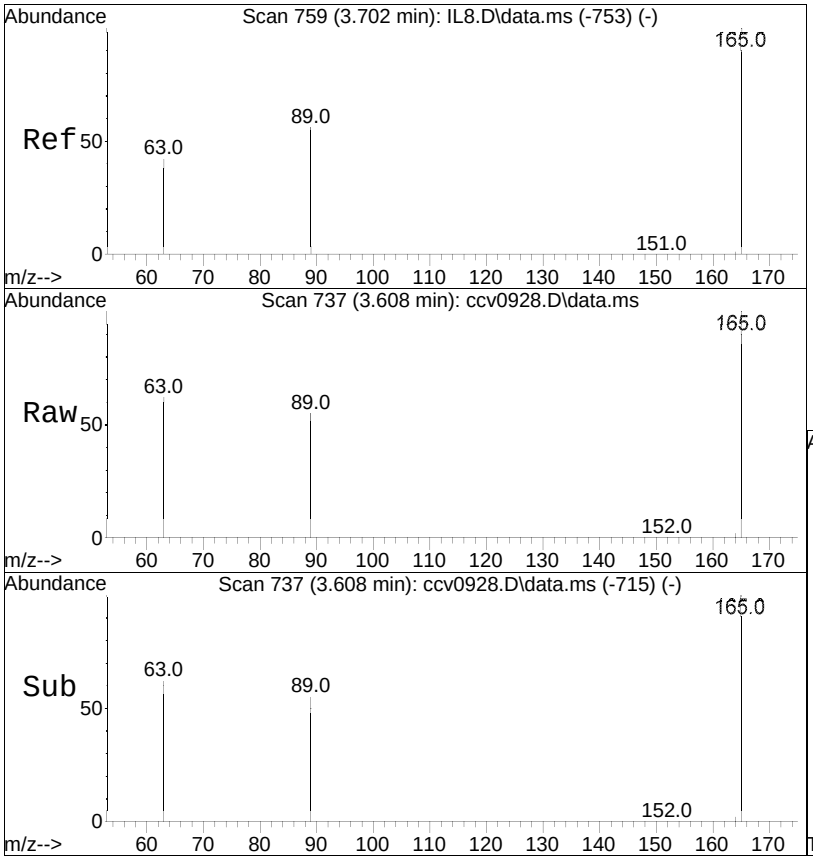


#14
2-Chloronaphthalene
Concen: 1038.66 ng/ml
RT: 3.410 min Scan# 680
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:162 Resp: 240305

Ion	Ratio	Lower	Upper
162	100		
127	37.7	30.1	45.1

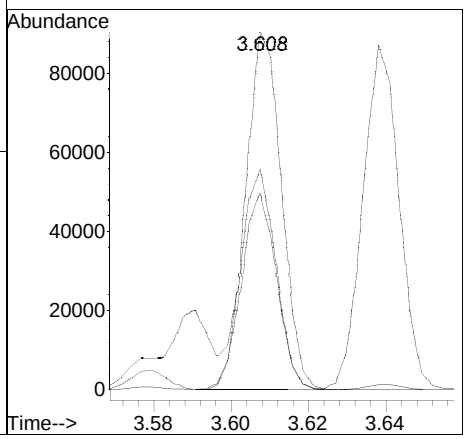


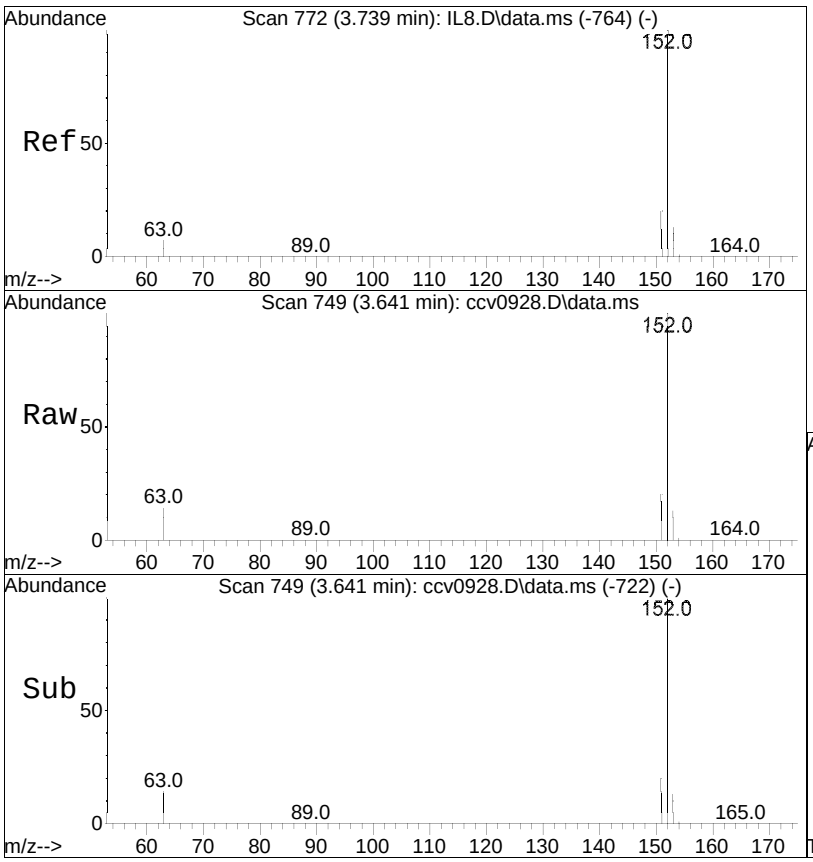


#15
2,6-Dinitrotoluene
Concen: 1008.47 ng/ml
RT: 3.608 min Scan# 737
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:165 Resp: 58109

Ion	Ratio	Lower	Upper
165	100		
89	54.2	44.0	66.0
63	60.7	47.5	71.3

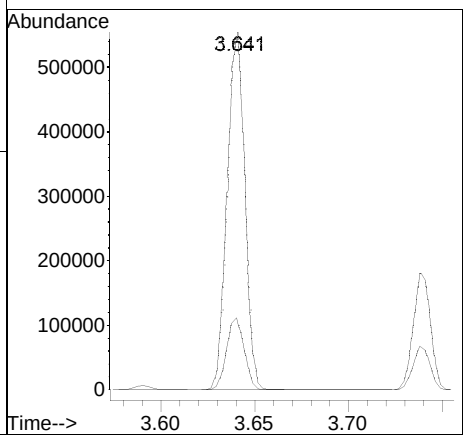


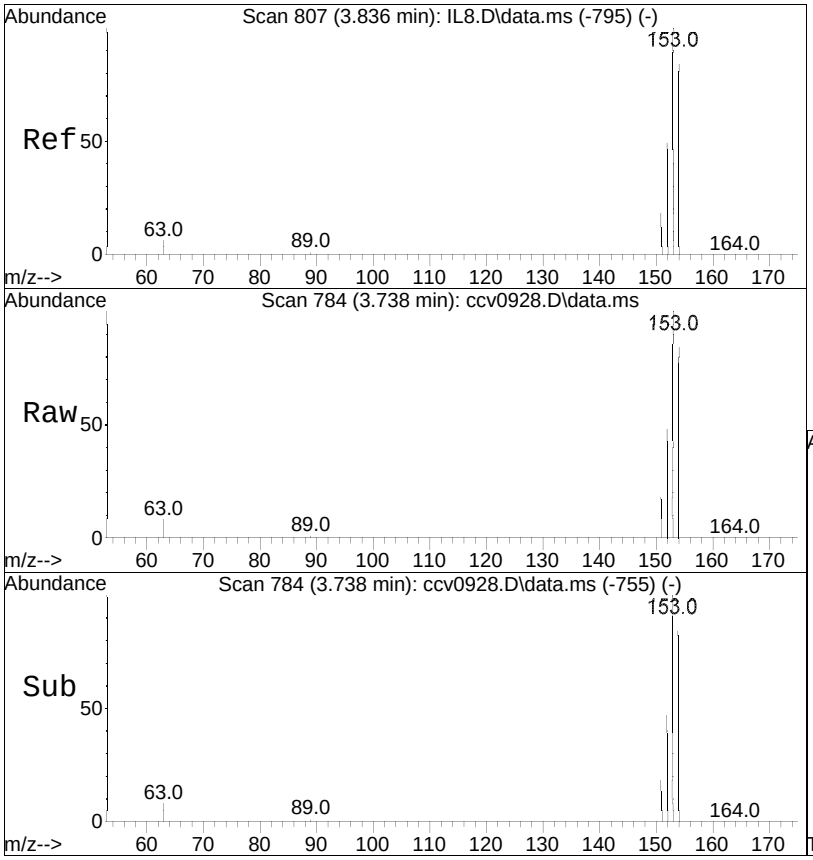


#16
Acenaphthylene
Concen: 1067.69 ng/ml
RT: 3.641 min Scan# 749
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:152 Resp: 359347

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.2

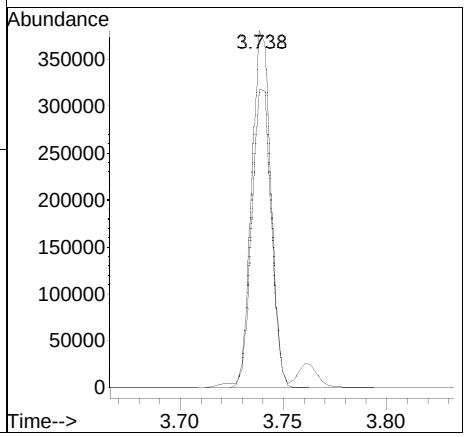


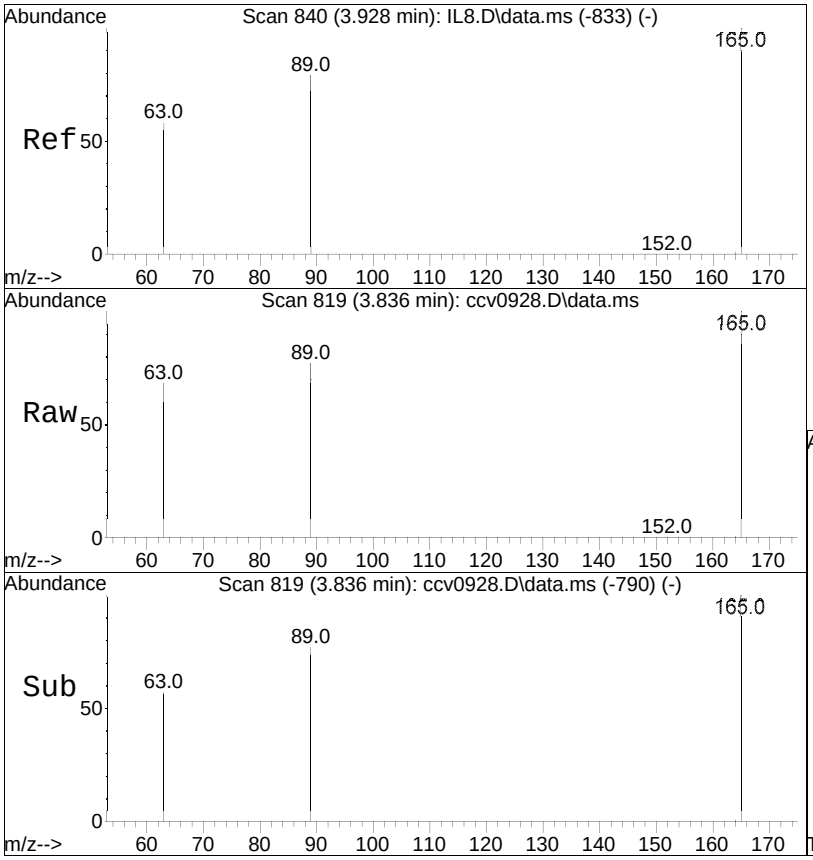


#18
Acenaphthene
Concen: 1009.77 ng/ml
RT: 3.738 min Scan# 784
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:153 Resp: 244631

Ion	Ratio	Lower	Upper
153	100		
154	86.1	69.1	103.7

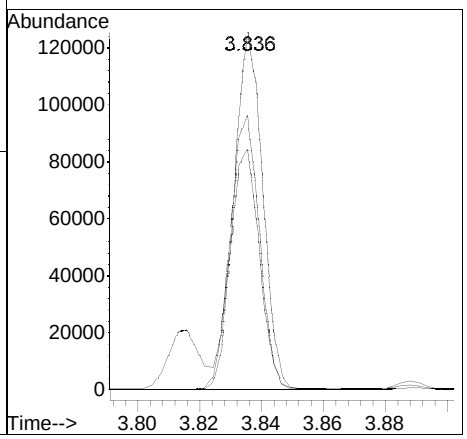


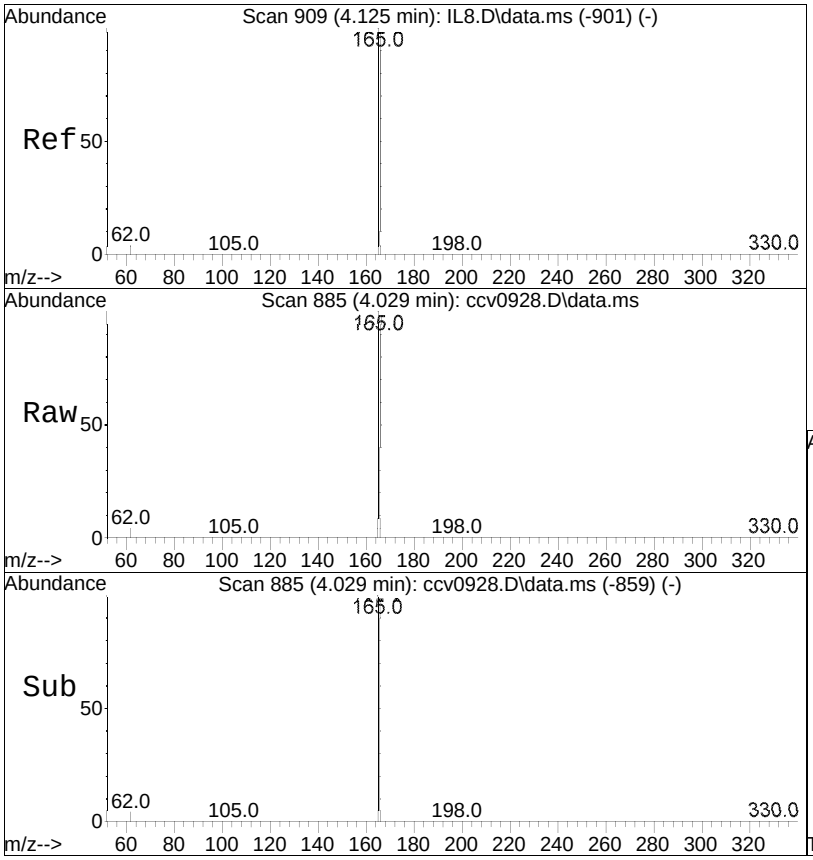


#19
2,4-Dinitrotoluene
Concen: 1013.25 ng/ml
RT: 3.836 min Scan# 819
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:165 Resp: 79792

Ion	Ratio	Lower	Upper
165	100		
89	78.7	64.6	96.8
63	68.9	56.5	84.7

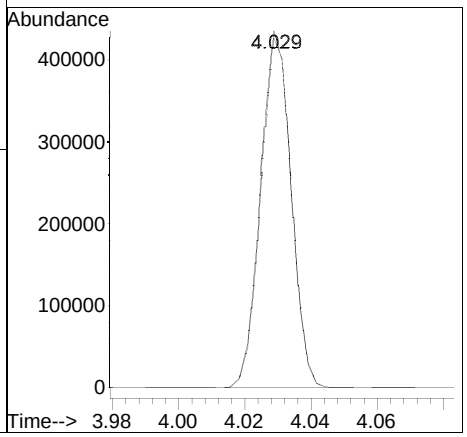


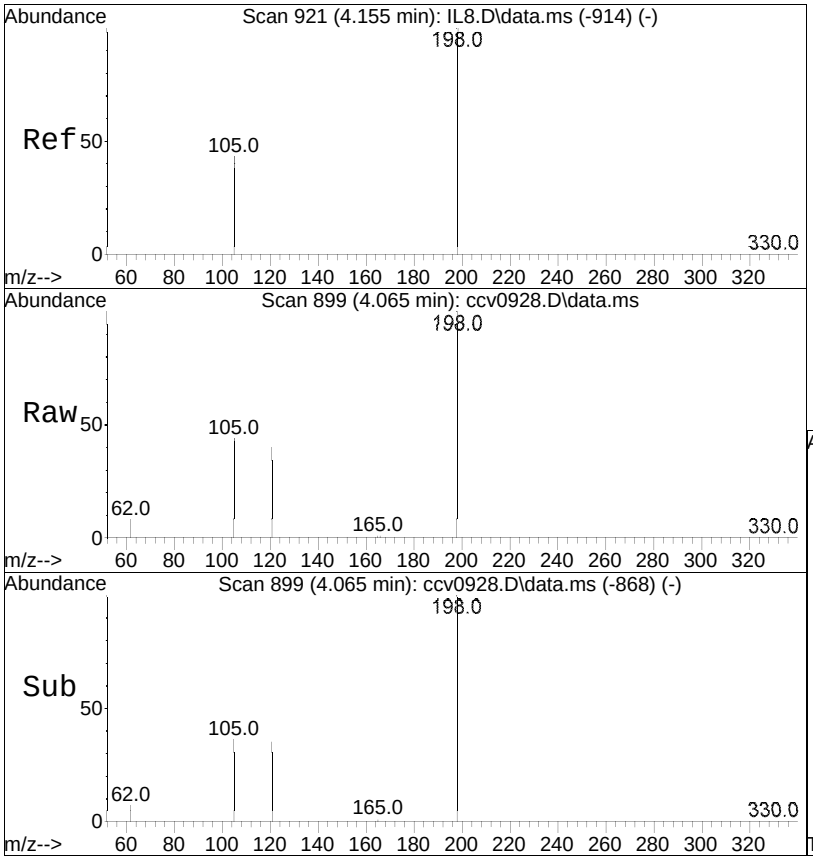


#20
Fluorene
Concen: 1024.51 ng/ml
RT: 4.029 min Scan# 885
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:166 Resp: 274142

Ion	Ratio	Lower	Upper
166	100		
165	101.4	81.4	122.2

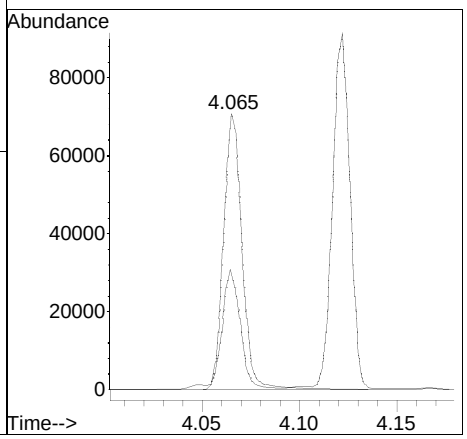


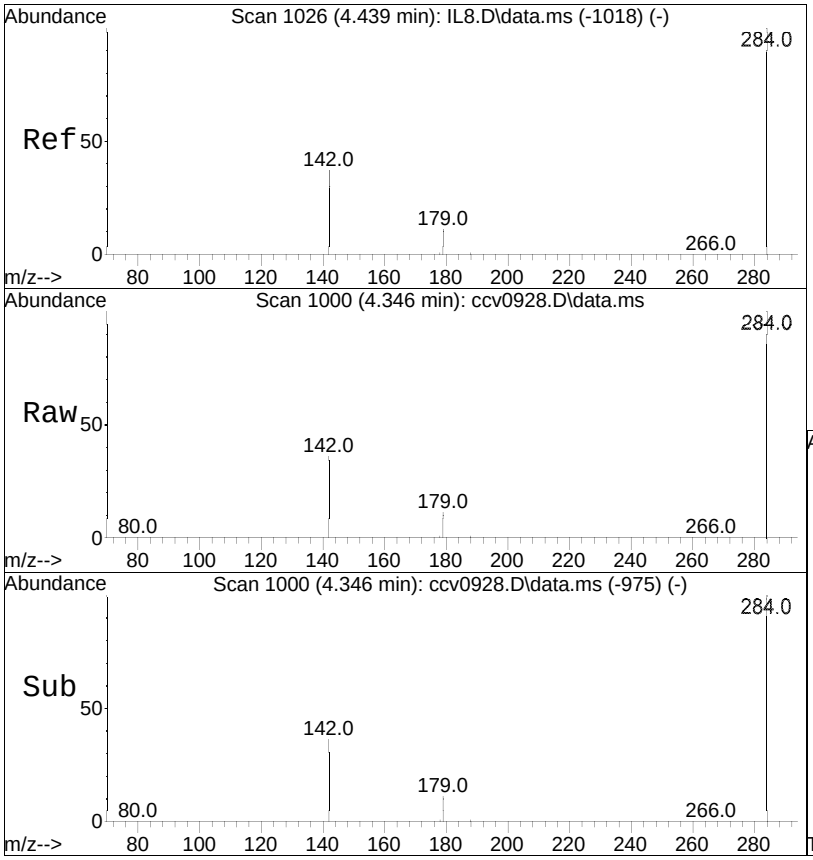


#23
4,6-Dinitro-o-cresol
Concen: 1021.22 ng/ml
RT: 4.065 min Scan# 899
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:198 Resp: 46626

Ion	Ratio	Lower	Upper
198	100		
105	43.1	34.9	52.3

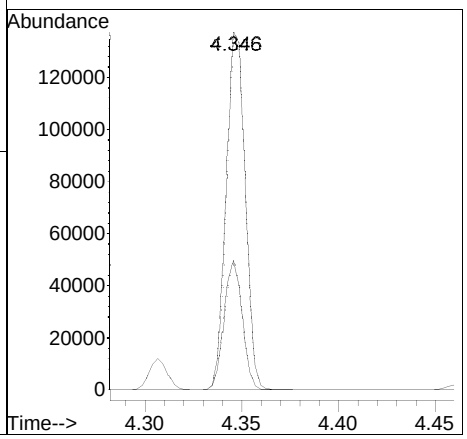


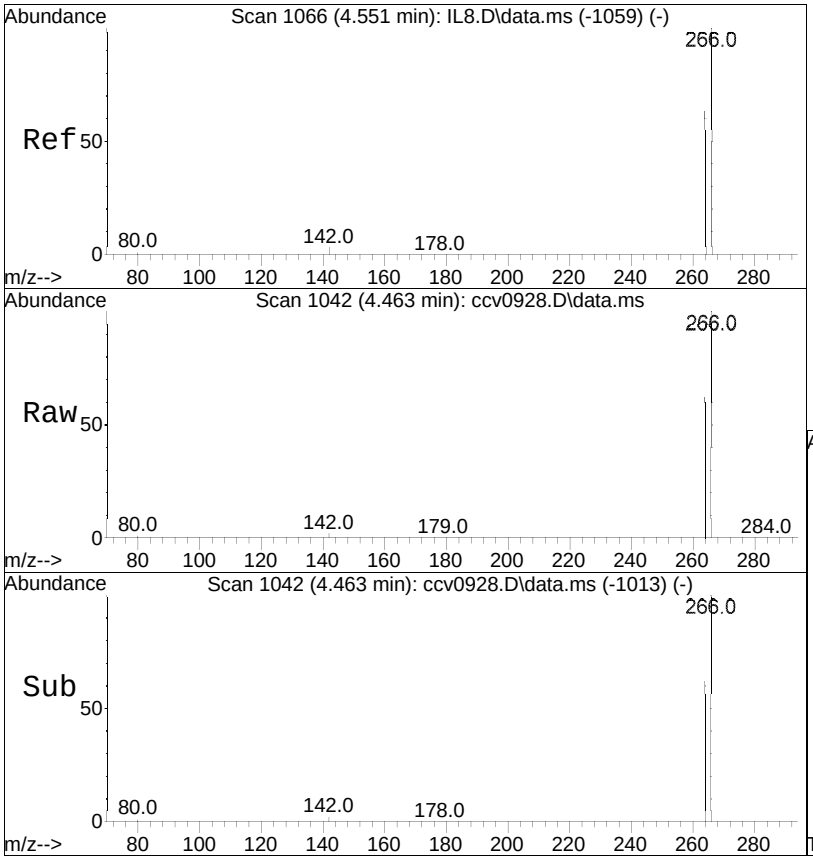


#24
Hexachlorobenzene
Concen: 1013.69 ng/ml
RT: 4.346 min Scan# 1000
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:284 Resp: 92306

Ion	Ratio	Lower	Upper
284	100		
142	34.9	26.6	40.0

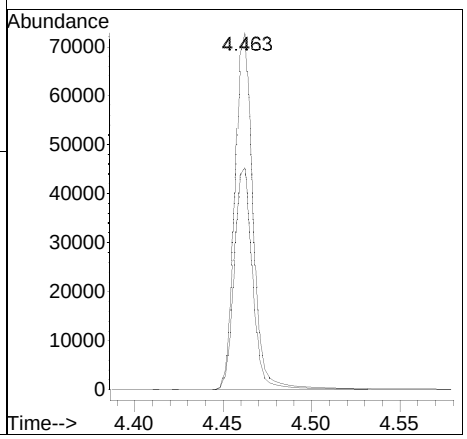


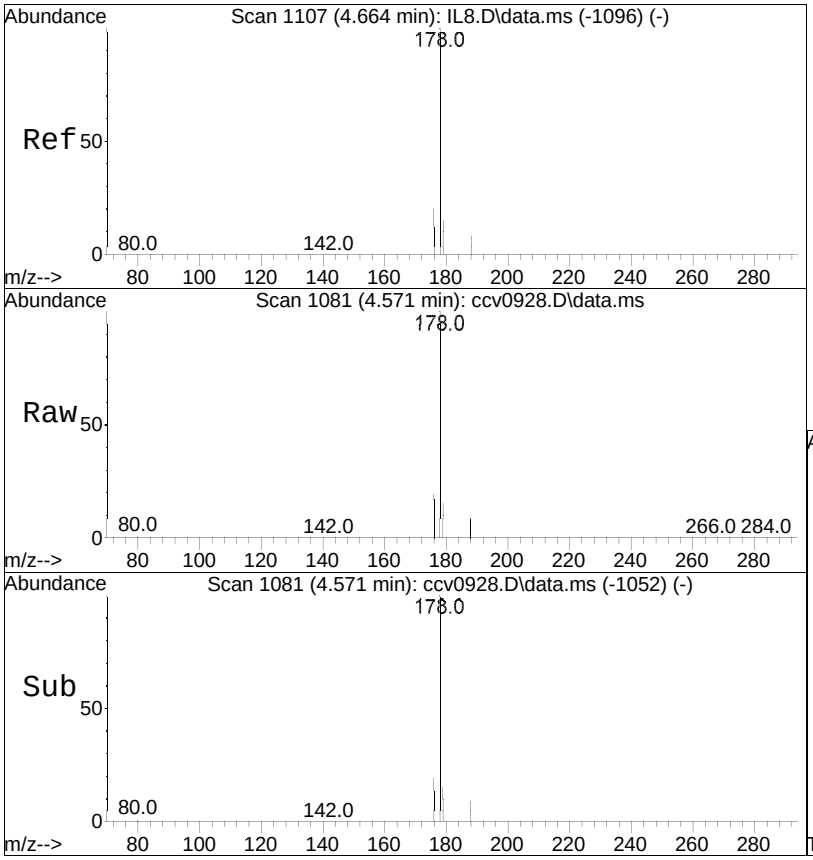


#25
Pentachlorophenol
Concen: 1157.13 ng/ml
RT: 4.463 min Scan# 1042
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:266 Resp: 51887

Ion	Ratio	Lower	Upper
266	100		
264	62.8	50.2	75.4

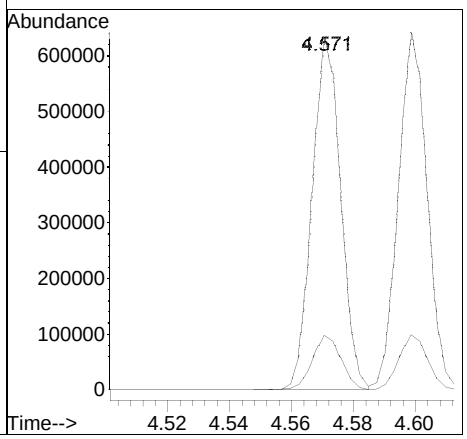


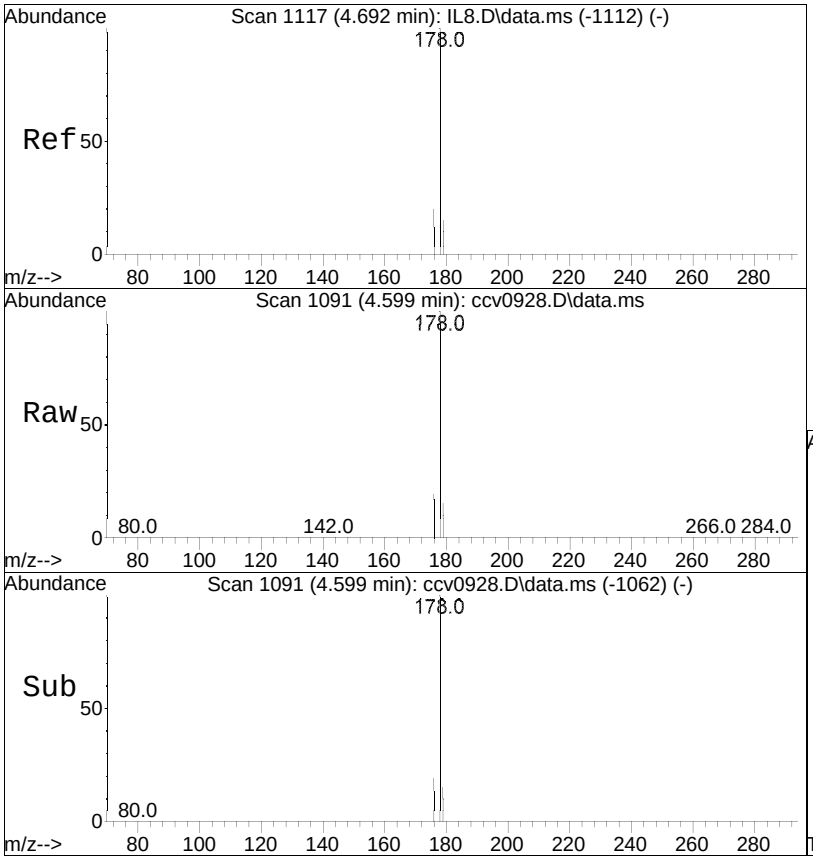


#26
Phenanthrene
Concen: 1015.65 ng/ml
RT: 4.571 min Scan# 1081
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:178 Resp: 404972

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.6	18.8

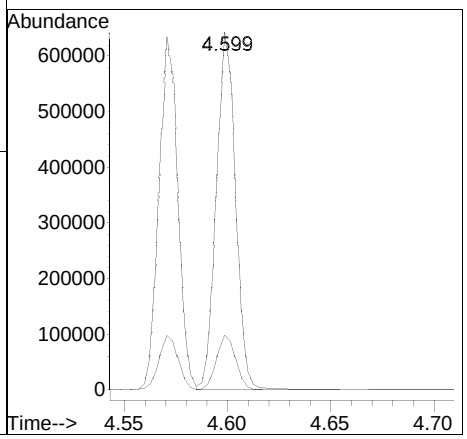


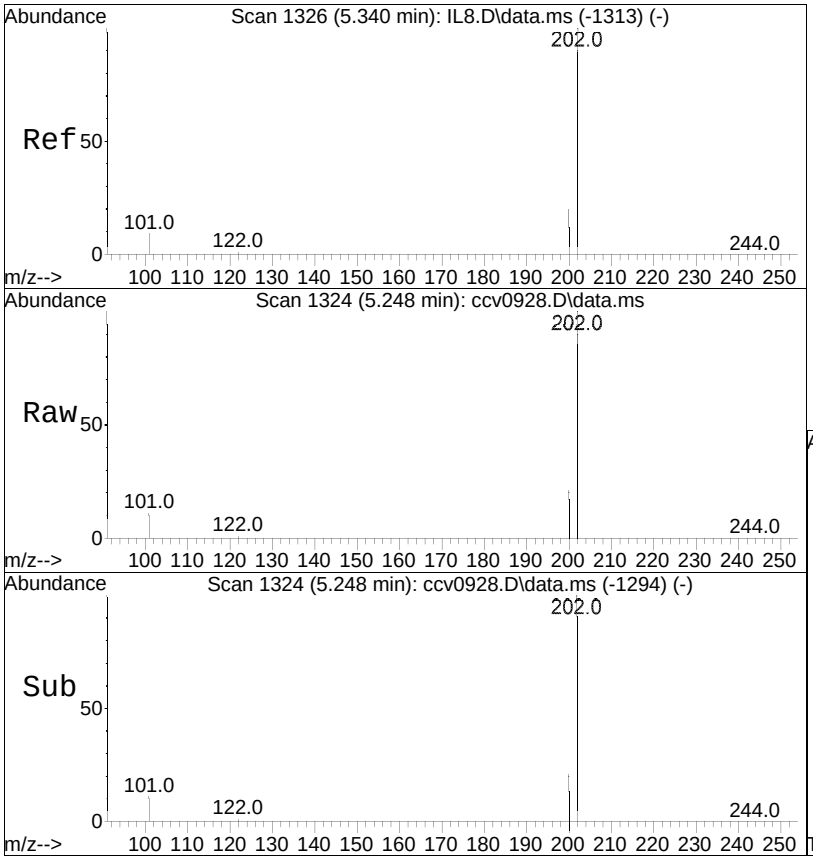


#27
Anthracene
Concen: 1064.36 ng/ml
RT: 4.599 min Scan# 1091
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:178 Resp: 416385

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

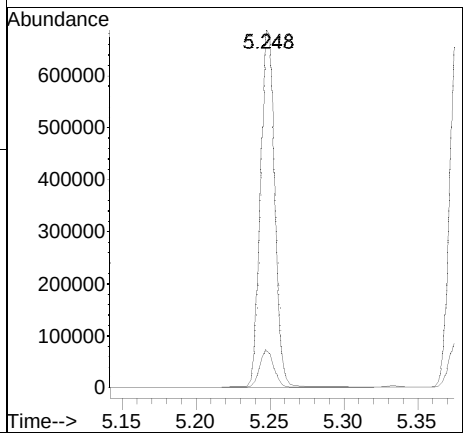


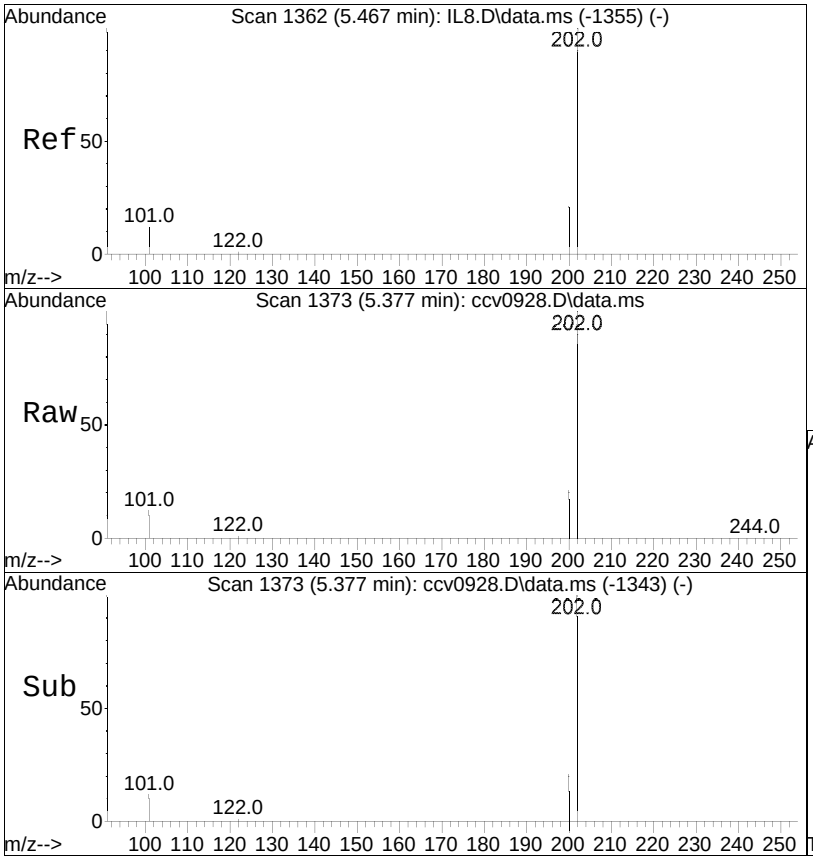


#28
Fluoranthene
Concen: 1010.06 ng/ml
RT: 5.248 min Scan# 1324
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:202 Resp: 466380

Ion	Ratio	Lower	Upper
202	100		
101	10.4	8.3	12.5

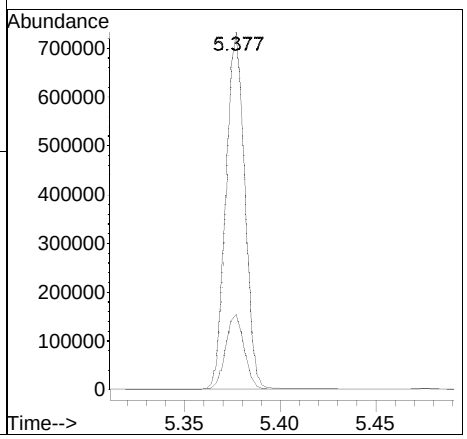


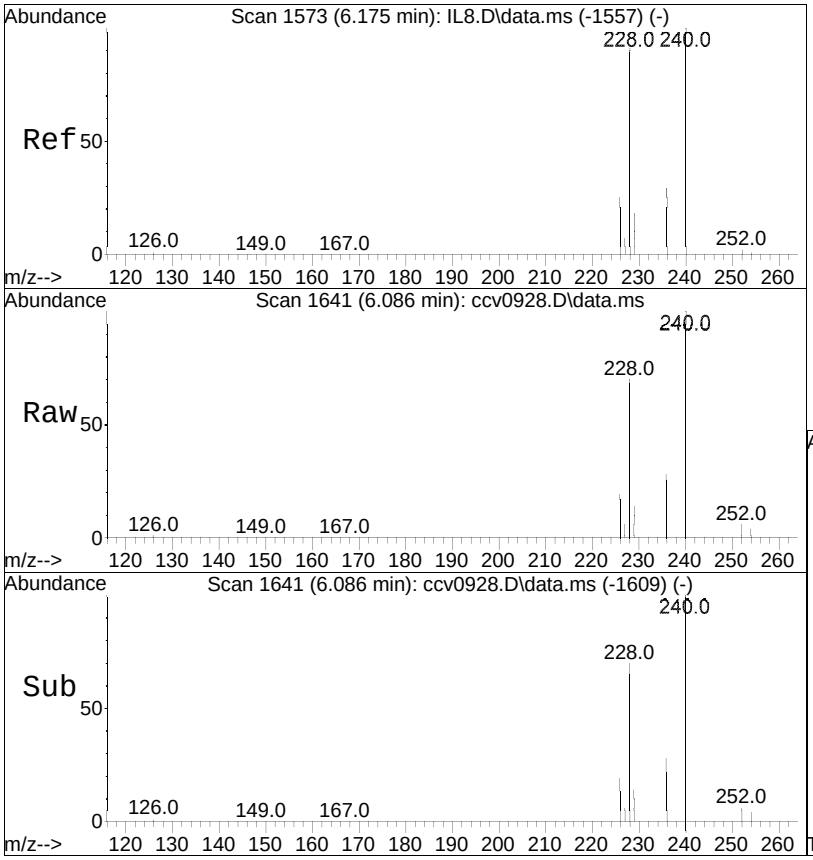


#29
Pyrene
Concen: 1011.51 ng/ml
RT: 5.377 min Scan# 1373
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:202 Resp: 493895

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3

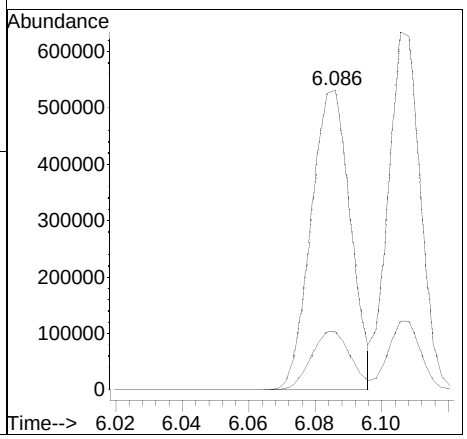


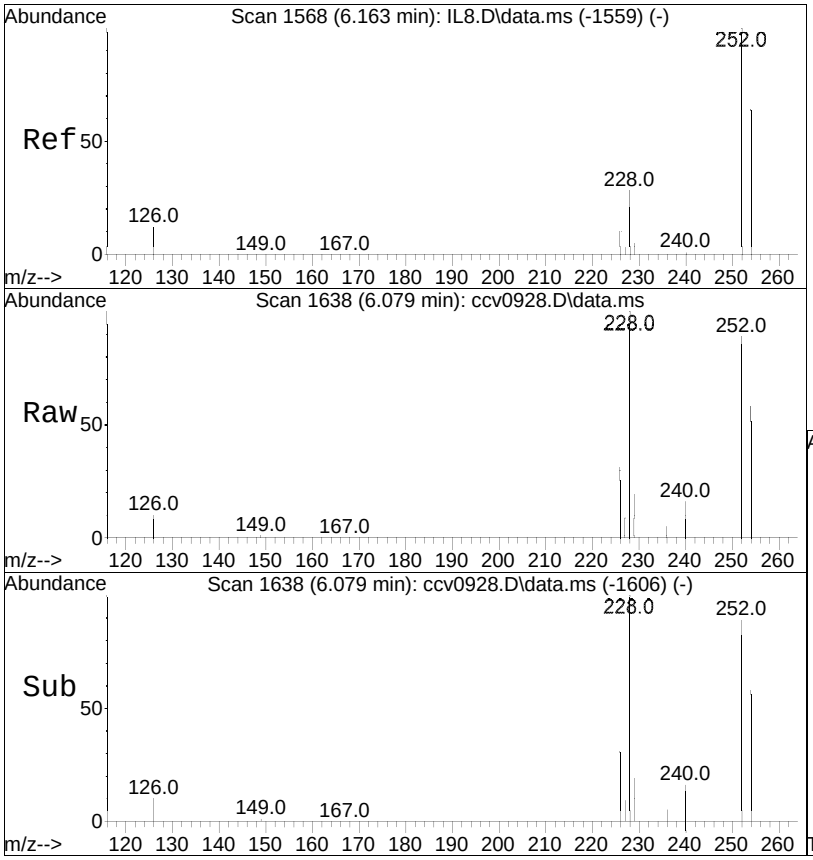


#32
Benzo[a]anthracene
Concen: 1062.77 ng/ml
RT: 6.086 min Scan# 1641
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:228 Resp: 436733

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.6	23.4

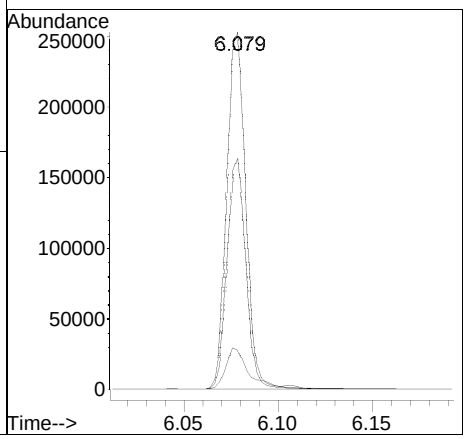


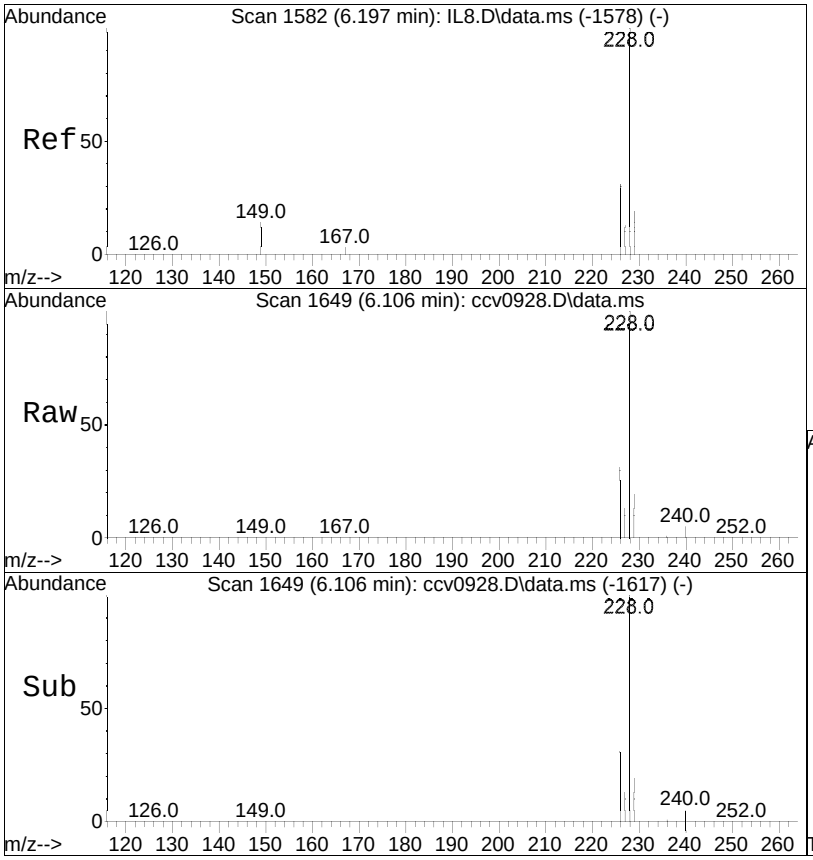


#33
3,3'-Dichlorobenzene
Concen: 1192.27 ng/ml
RT: 6.079 min Scan# 1638
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:252 Resp: 174527

Ion	Ratio	Lower	Upper
252	100		
126	14.0	11.3	16.9
254	64.3	51.4	77.0

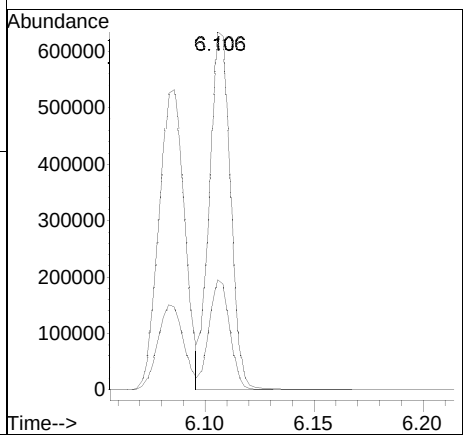


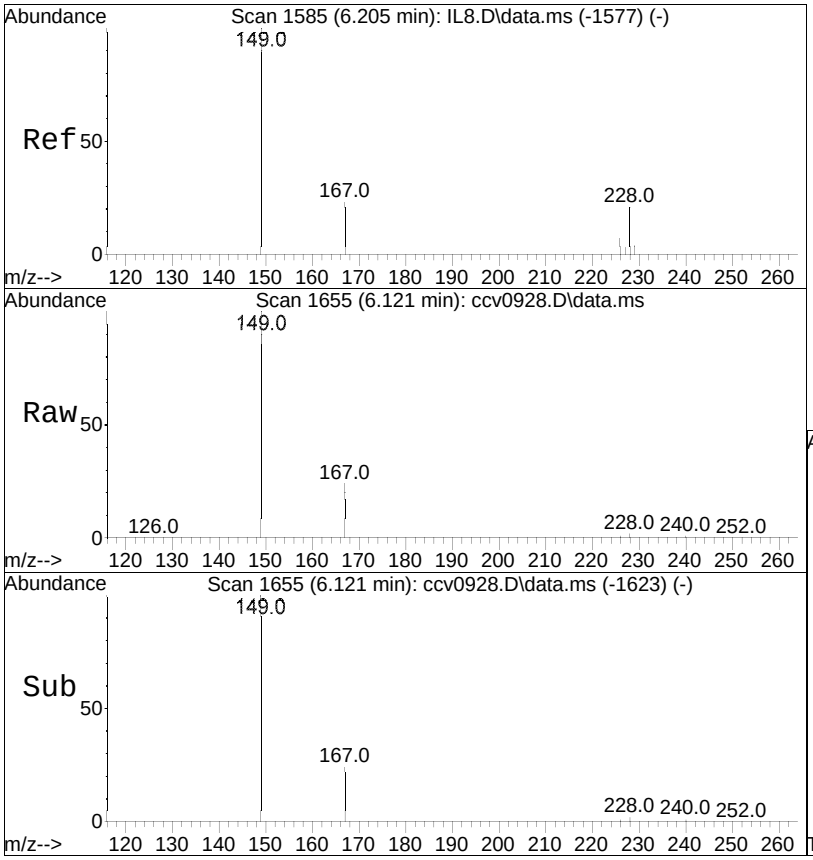


#34
Chrysene
Concen: 1096.74 ng/ml
RT: 6.106 min Scan# 1649
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:228 Resp: 425367

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	36.8

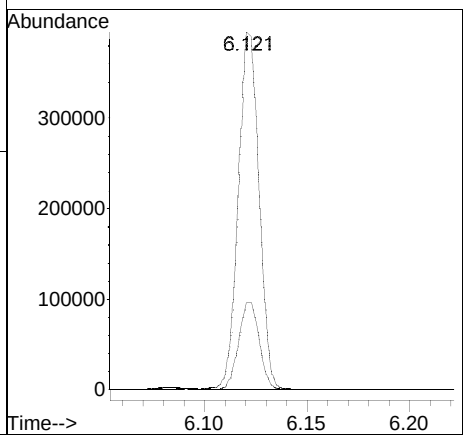


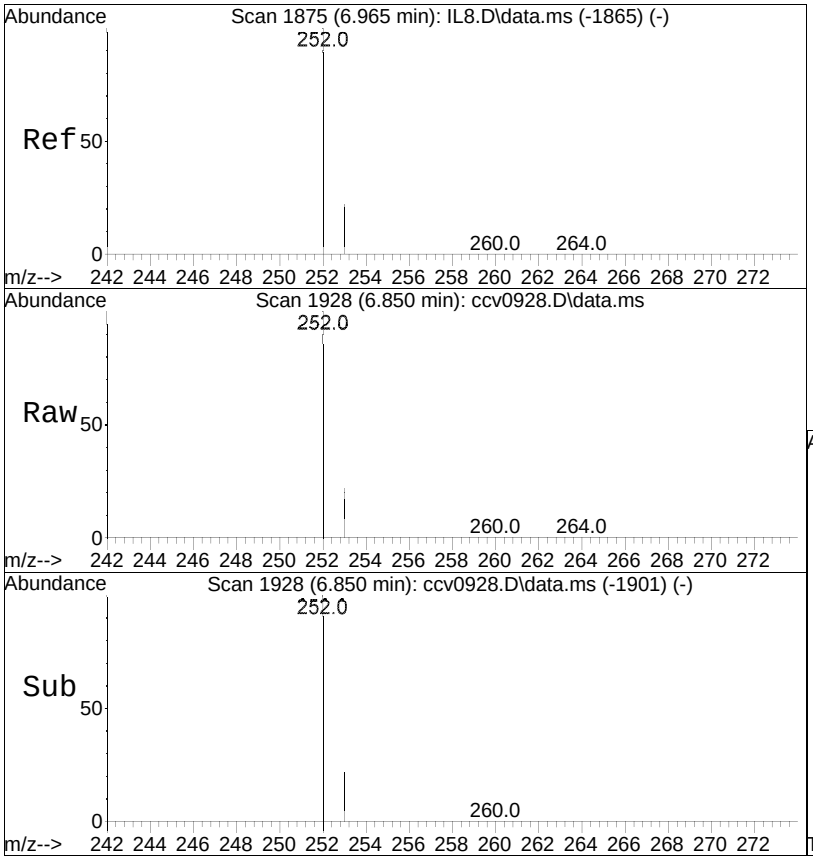


#35
Bis(2-ethylhexyl)phthalate
Concen: 1105.51 ng/ml
RT: 6.121 min Scan# 1655
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:149 Resp: 273056

Ion	Ratio	Lower	Upper
149	100		
167	24.3	19.5	29.3

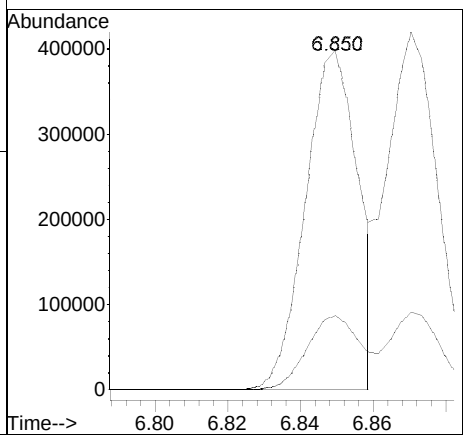


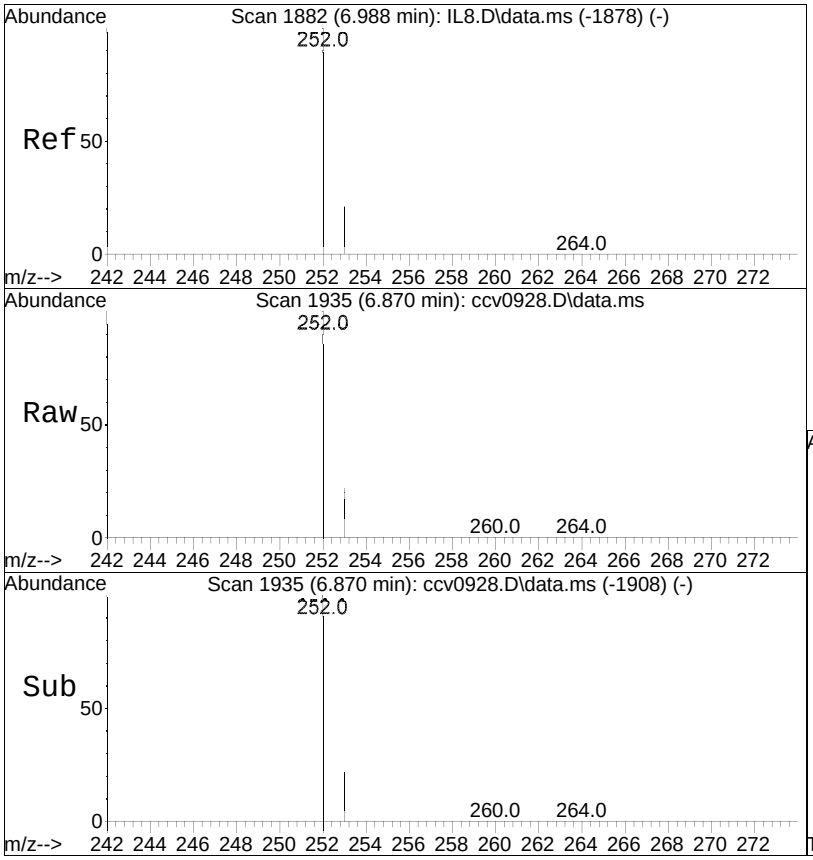


#37
Benzo[b]fluoranthene
Concen: 1096.38 ng/ml
RT: 6.850 min Scan# 1928
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:252 Resp: 398751

Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.3	25.9

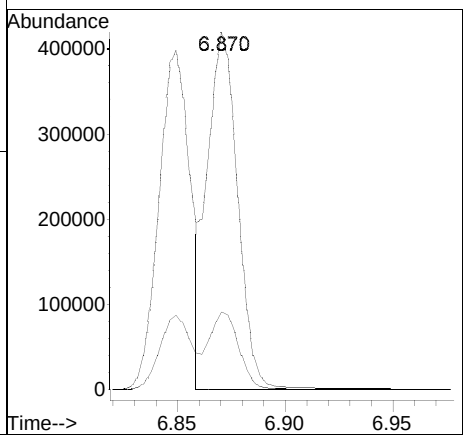


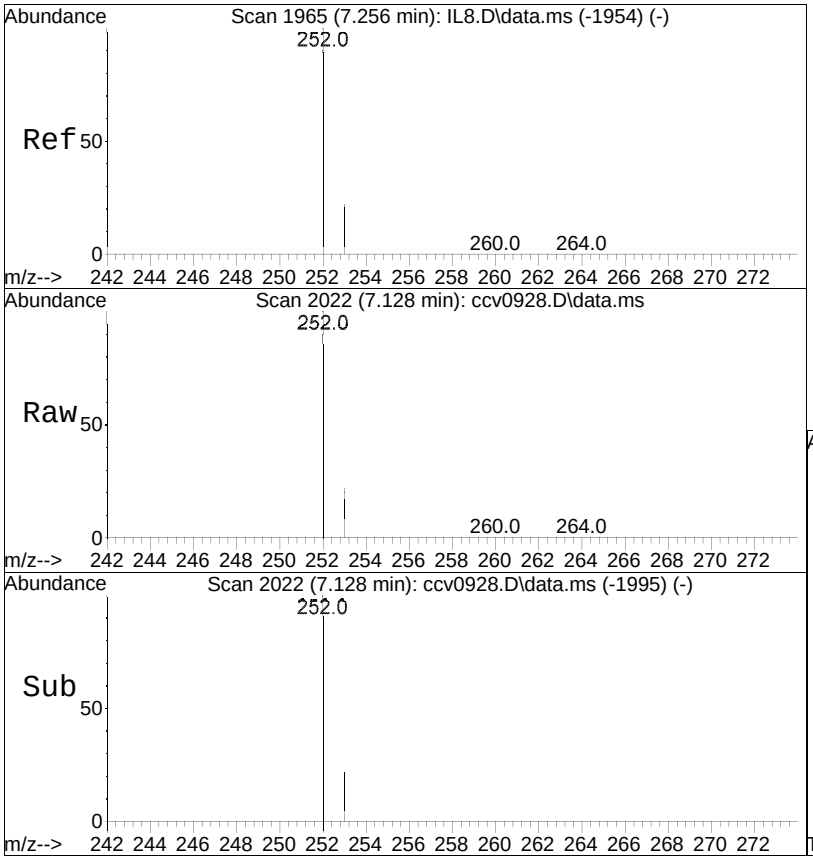


#38
Benzo[k]fluoranthene
Concen: 1143.33 ng/ml
RT: 6.870 min Scan# 1935
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:252 Resp: 407981

Ion	Ratio	Lower	Upper
252	100		
253	20.4	17.5	26.3

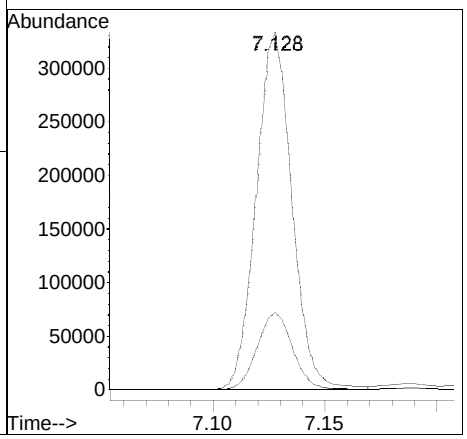


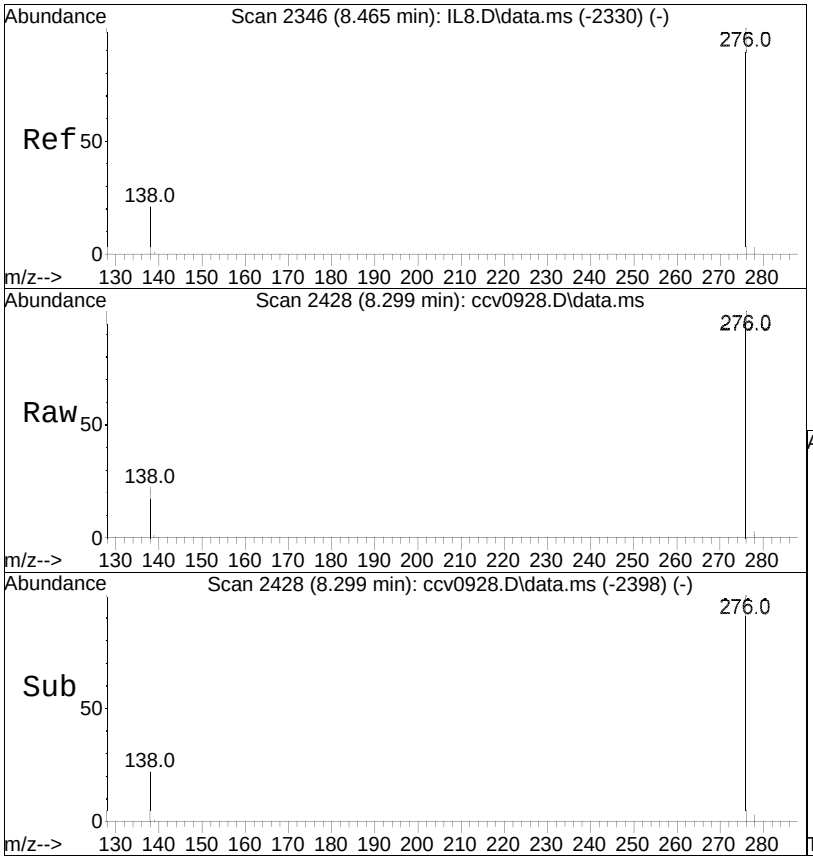


#39
Benzo[a]pyrene
Concen: 1173.28 ng/ml
RT: 7.128 min Scan# 2022
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:252 Resp: 365316

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

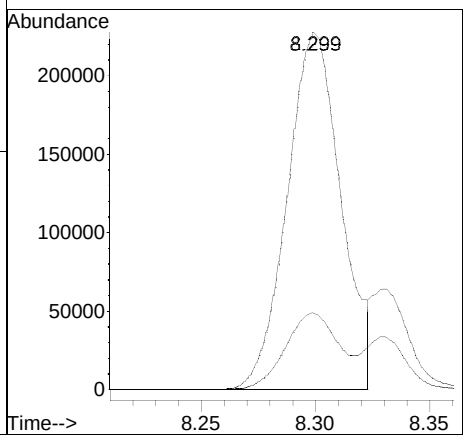


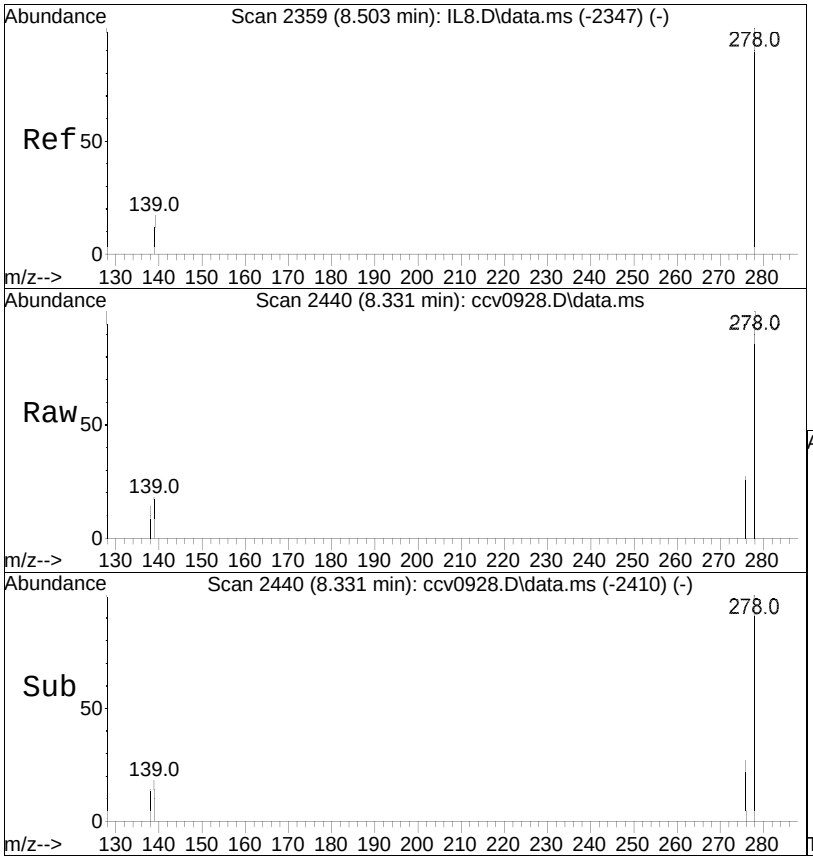


#40
Indeno[1,2,3-cd]pyrene
Concen: 1213.31 ng/ml
RT: 8.299 min Scan# 2428
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:276 Resp: 371468

Ion	Ratio	Lower	Upper
276	100		
138	21.5	16.5	24.7

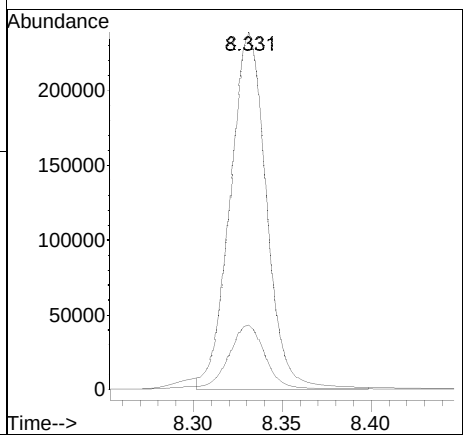


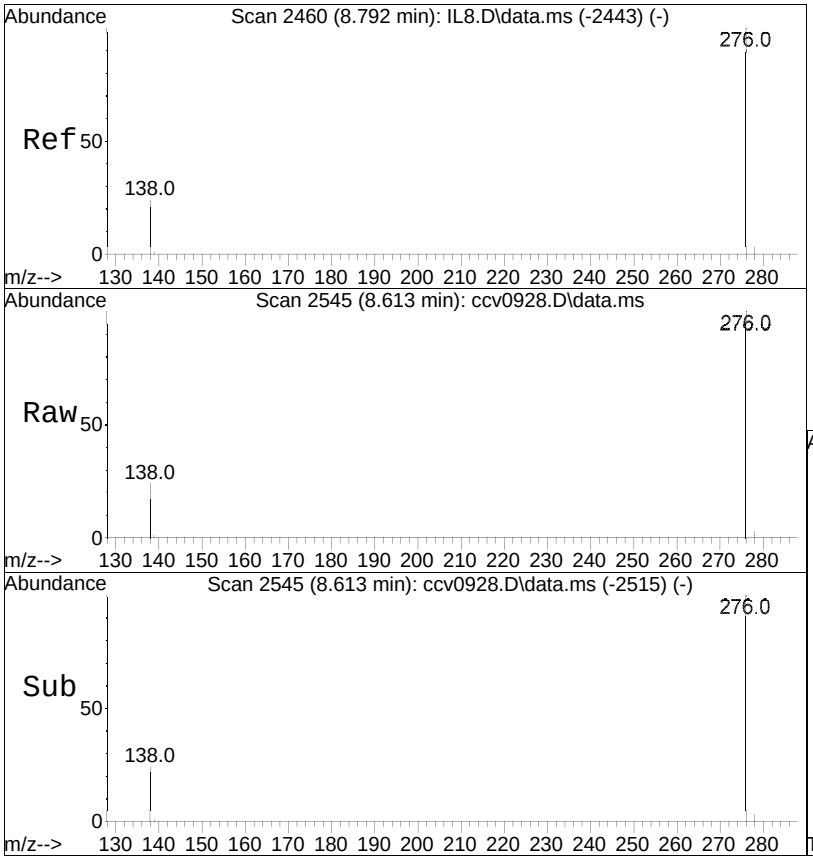


#41
Dibenzo[a,h]anthracene
Concen: 1162.67 ng/ml M6
RT: 8.331 min Scan# 2440
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:278 Resp: 336358

Ion	Ratio	Lower	Upper
278	100		
139	18.6	14.5	21.7

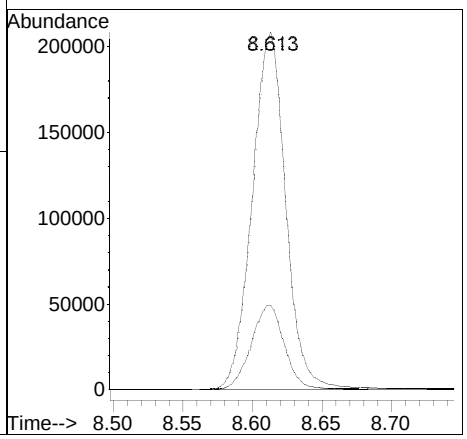




#42
Benzo[g,h,i]perylene
Concen: 1105.98 ng/ml
RT: 8.613 min Scan# 2545
Delta R.T. 0.000 min
Lab File: ccv0928.D
Acq: 28 Sep 2024 12:51 pm

Tgt Ion:276 Resp: 343551

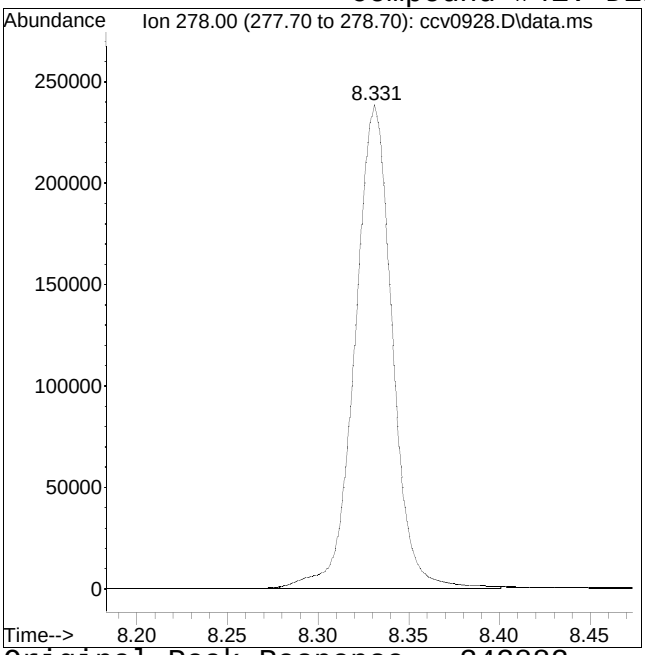
Ion	Ratio	Lower	Upper
276	100		
138	23.8	18.6	27.8



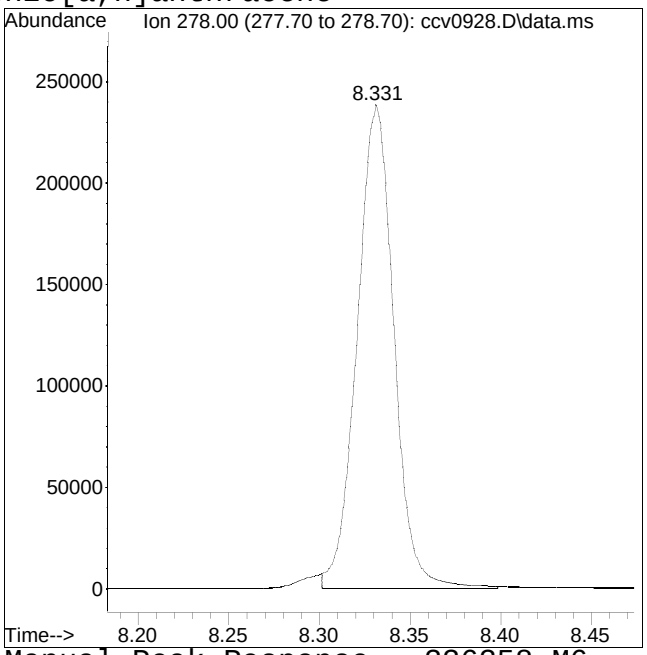
Manual Integration Report

Data Path : I:\8270SIM\sv120\240928RVTQMethod : SIM-RVT_240925_sv120.M
Data File : ccv0928.D Operator : SV120:rp
Date Inj'd : 9/28/2024 12:51 pm Instrument : SV120
Sample : WG1977599-3,32,,ICV 10884 Quant Date : 9/28/2024 1:11 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 342882



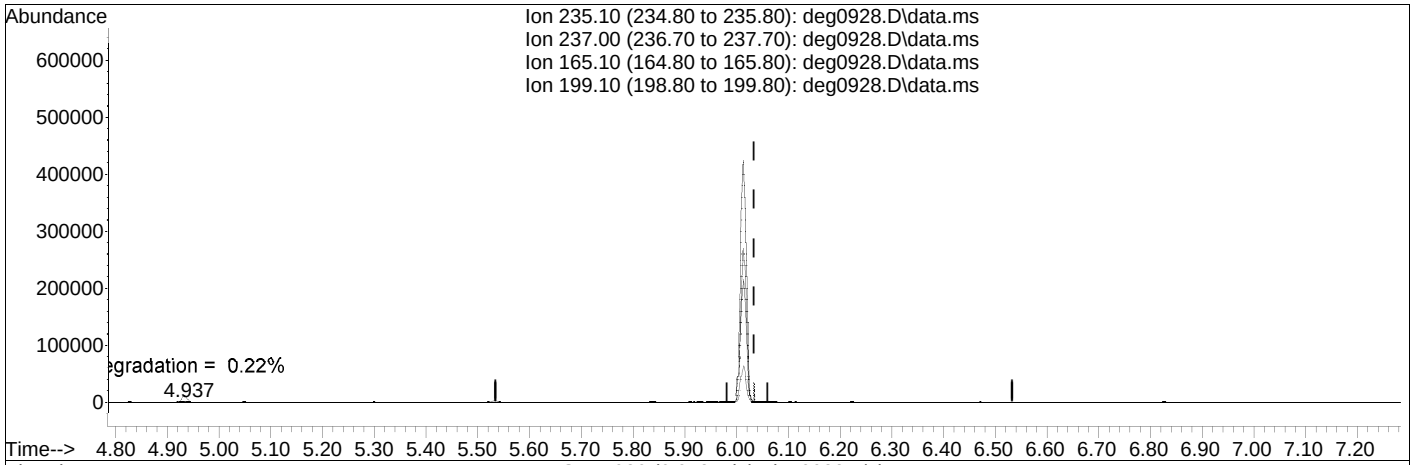
Manual Peak Response = 336358 M6

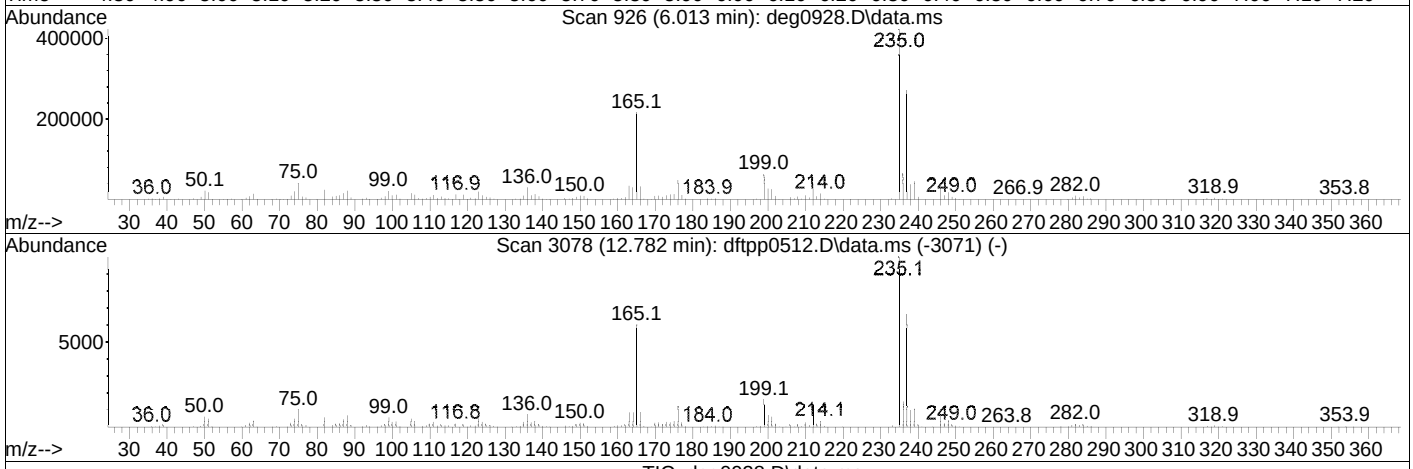
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : deg0928.D
Acq On : 28 Sep 2024 12:34 pm
Operator : SV120:rp
Sample : WG1977599-2,32,, dftpp SV120 lot#11040
Misc : WG1977599,,ical21522
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 28 12:48:08 2024
Quant Method : I:\8270SIM\sv120\240928RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 06 15:55:25 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0928.D\data.ms

(6) ddt (T)

6.013min (-0.021) 50.91

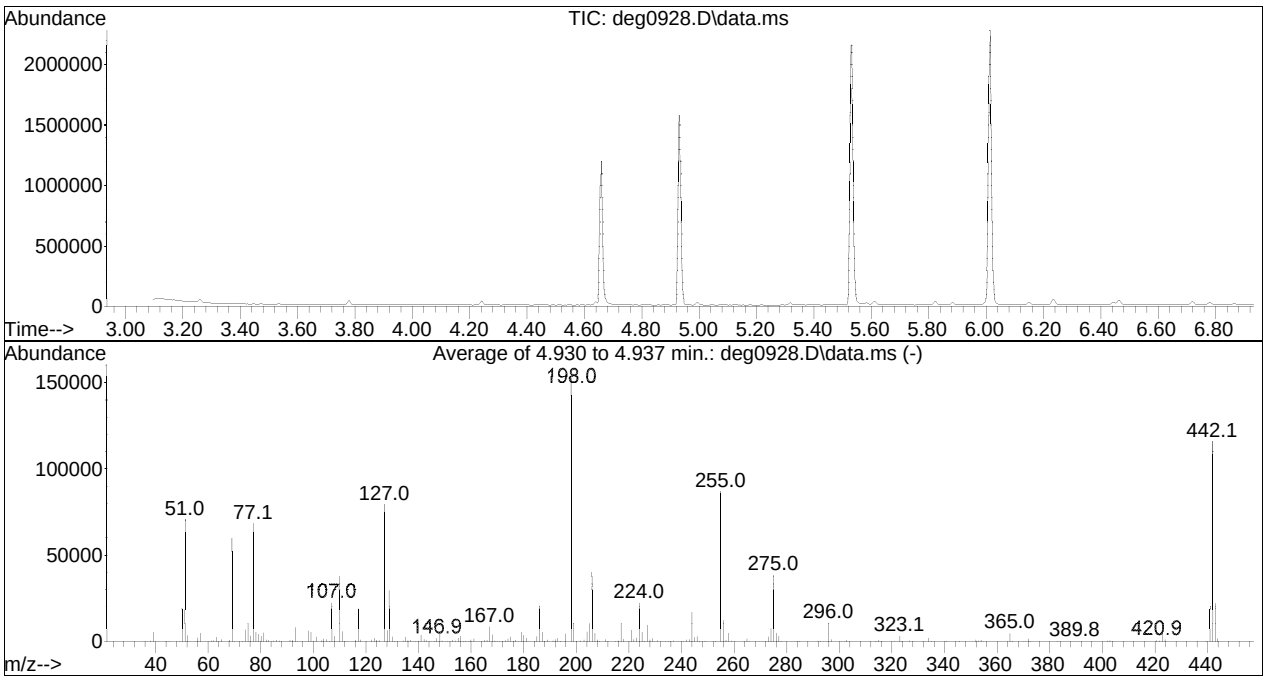
response 310362

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.88
165.10	53.30	51.27
199.10	17.10	14.91

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : deg0928.D
Acq On : 28 Sep 2024 12:34 pm
Operator : SV120:rp
Sample : WG1977599-1,32,, dftpp SV120 lot#11040
Misc : WG1977599,,ical21522
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\240928RVT\SIM-RVT_240925_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Sat Sep 28 13:11:11 2024



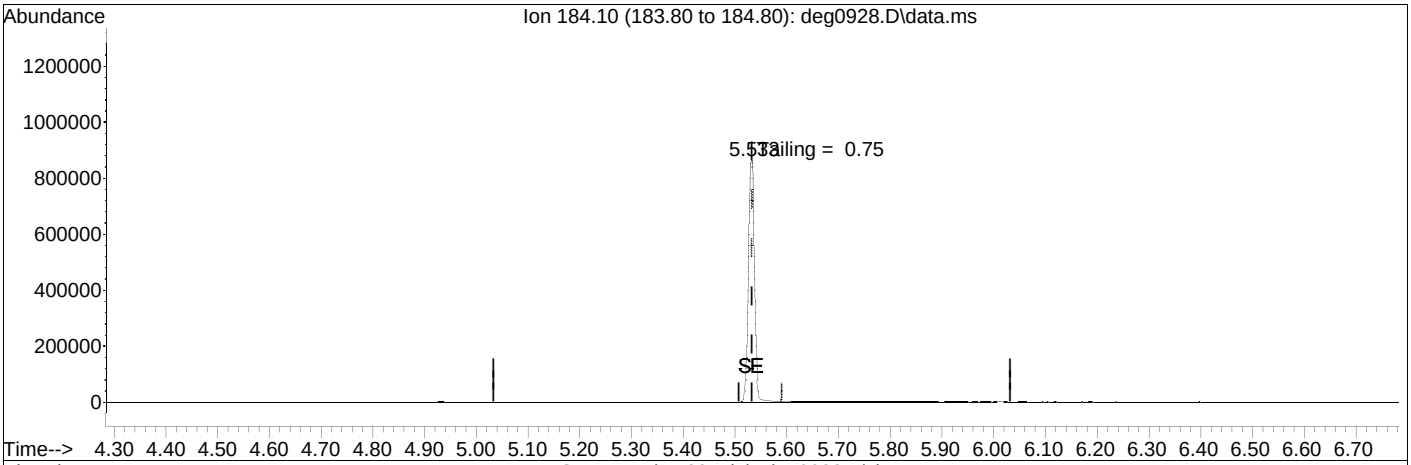
Spectrum Information: Average of 4.930 to 4.937 min.

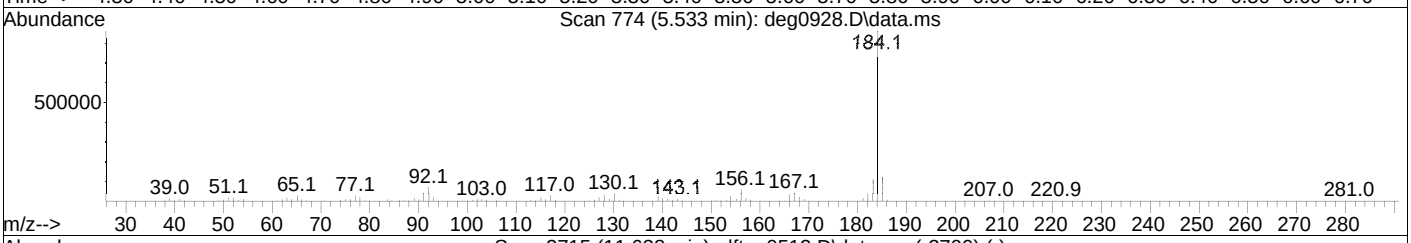
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	46.2	70759	PASS
68	69	0.00	2	1.8	1063	PASS
69	69	100	100	100.0	59626	PASS
70	69	0.00	2	0.6	348	PASS
127	198	10	80	51.8	79309	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	152995	PASS
199	198	5	9	6.9	10581	PASS
275	198	10	60	25.1	38467	PASS
365	198	1	100	3.1	4704	PASS
441	442	0.01	24	17.7	20528	PASS
442	198	50	100	75.6	115680	PASS
443	442	15	24	19.1	22067	PASS

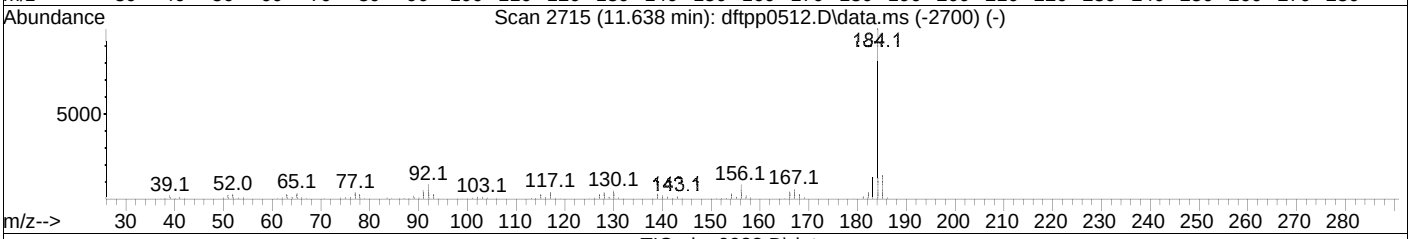
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : deg0928.D
Acq On : 28 Sep 2024 12:34 pm
Operator : SV120:rp
Sample : WG1977599-4,32,, dftpp SV120 lot#11040
Misc : WG1977599,,ical21522
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 28 12:48:08 2024
Quant Method : I:\8270SIM\sv120\240928RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 06 15:55:25 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: deg0928.D\data.ms

(3) benzidine (T)

5.533min (+ 0.000) 66.52

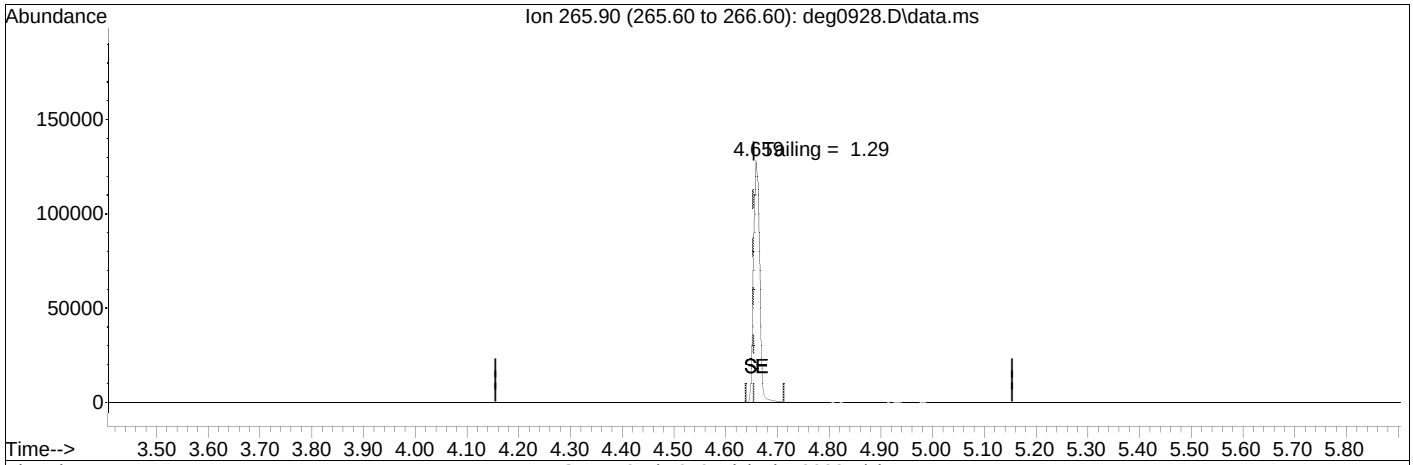
response 677174

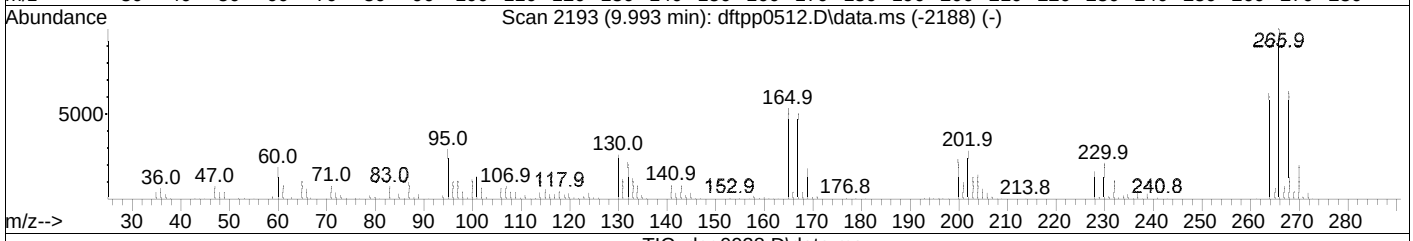
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : deg0928.D
Acq On : 28 Sep 2024 12:34 pm
Operator : SV120:rp
Sample : WG1977599-5,32,, dftpp SV120 lot#11040
Misc : WG1977599,,ical21522
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 28 12:48:08 2024
Quant Method : I:\8270SIM\sv120\240928RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 06 15:55:25 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0928.D\data.ms

(1) pentachlorophenol (T)

4.659min (+ 0.004) 46.18

response 96989

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : 977113-1.D
Acq On : 28 Sep 2024 03:30 pm
Operator : SV120:rp
Sample : WG1977113-1,32,,rp
Misc : WG1977599,WG1977113,ical21522
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 15:51:48 2024
Quant Method : I:\8270sim\sv120\240928RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 13:11:11 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240928RVT\ccv0928.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.096	152	316792	4000.000	ng/ml	0.00
Standard Area 1 = 372654			Recovery = 85.01%			
8) Naphthalene-d8	2.750	136	1182159	4000.000	ng/ml	0.00
Standard Area 1 = 1416081			Recovery = 83.48%			
17) Acenaphthene-d10	3.720	164	668766	4000.000	ng/ml	0.00
Standard Area 1 = 810801			Recovery = 82.48%			
22) Phenanthrene-d10	4.555	188	1303750	4000.000	ng/ml	0.00
Standard Area 1 = 1583869			Recovery = 82.31%			
31) Chrysene-d12	6.087	240	1180844	4000.000	ng/ml	0.00
Standard Area 1 = 1368829			Recovery = 86.27%			
36) Perylene-d12	7.182	264	1086848	4000.000	ng/ml	0.00
Standard Area 1 = 1317176			Recovery = 82.51%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.536	112	51124	583.680	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 29.18%			
3) Phenol-d6	1.923	99	66536	647.156	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 32.36%			
7) Nitrobenzene-d5	2.373	82	68956	793.440	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 79.34%			
13) 2-Fluorobiphenyl	3.347	172	148970	663.749	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 66.37%			
21) 2,4,6-Tribromophenol	4.165	330	27072	905.018	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 45.25%			
30) 4-Terphenyl-d14	5.471	244	199966	875.767	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 43.79%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.344	284	112	1.494	ng/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : 977113-1.D
Acq On : 28 Sep 2024 03:30 pm
Operator : SV120:rp
Sample : WG1977113-1,32,,rp
Misc : WG1977599,WG1977113,ical21522
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 15:51:48 2024
Quant Method : I:\8270sim\sv120\240928RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 13:11:11 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240928RVT\ccv0928.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.464	266	284	15.474	ng/ml#	70
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

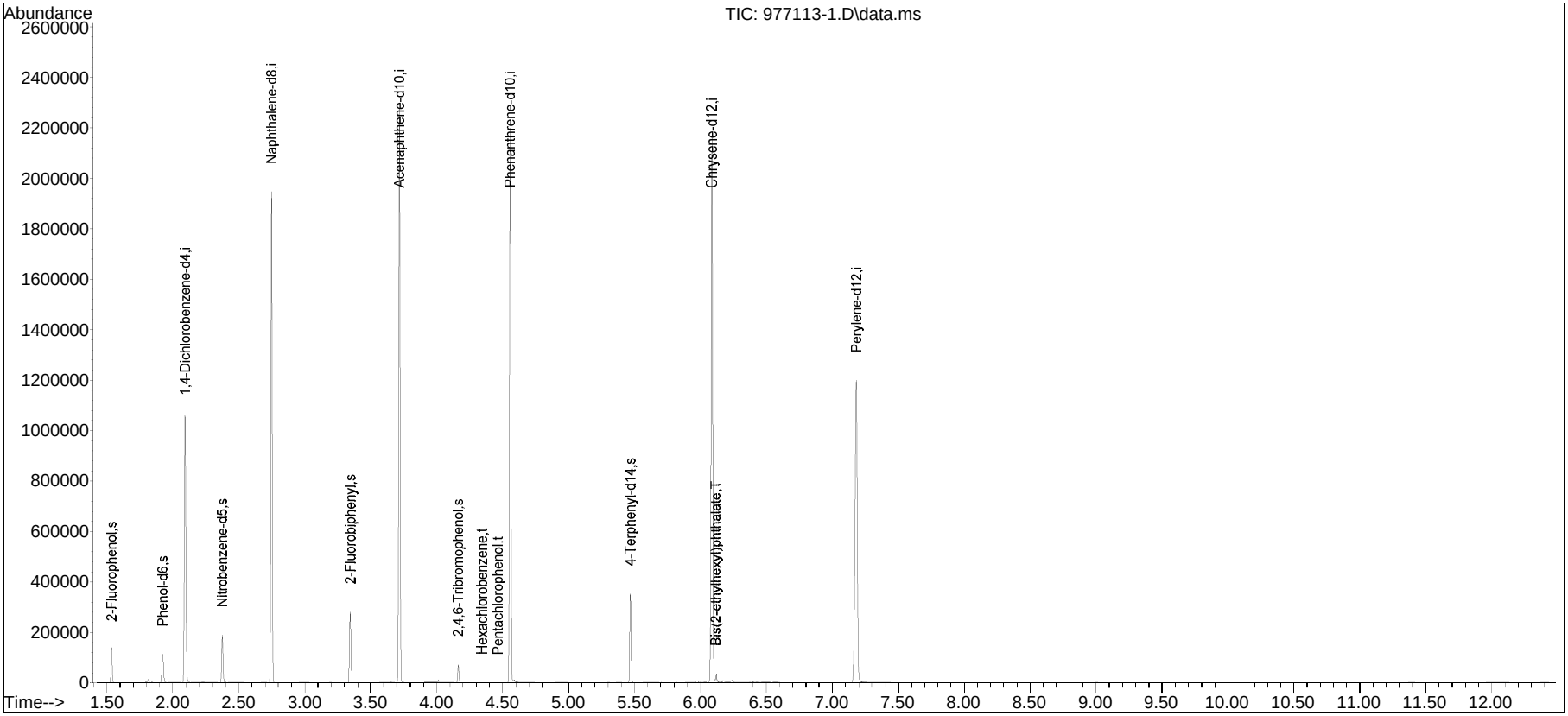
(#) = qualifier out of range (m) = manual integration (+) = signals summed

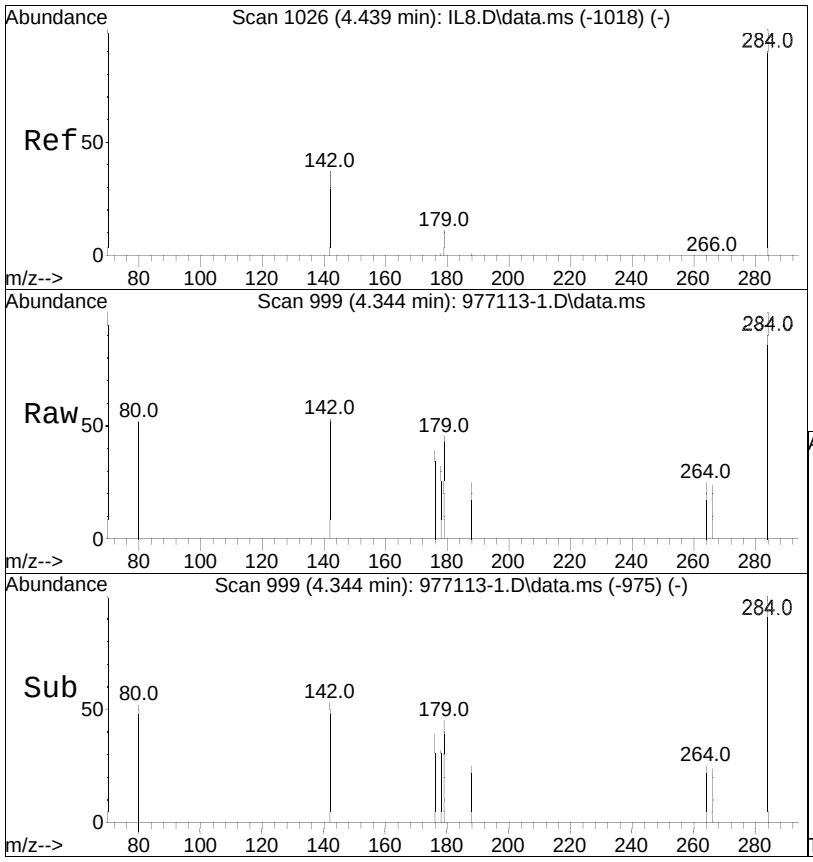
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : 977113-1.D
Acq On : 28 Sep 2024 03:30 pm
Operator : SV120:rp
Sample : WG1977113-1,32,,rp
Misc : WG1977599,WG1977113,ical21522
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 15:51:48 2024
Quant Method : I:\8270sim\sv120\240928RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 13:11:11 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0928.D•

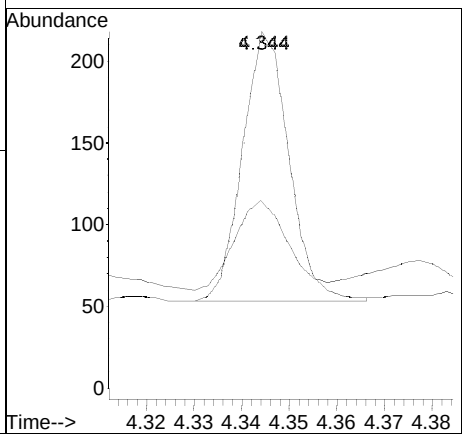


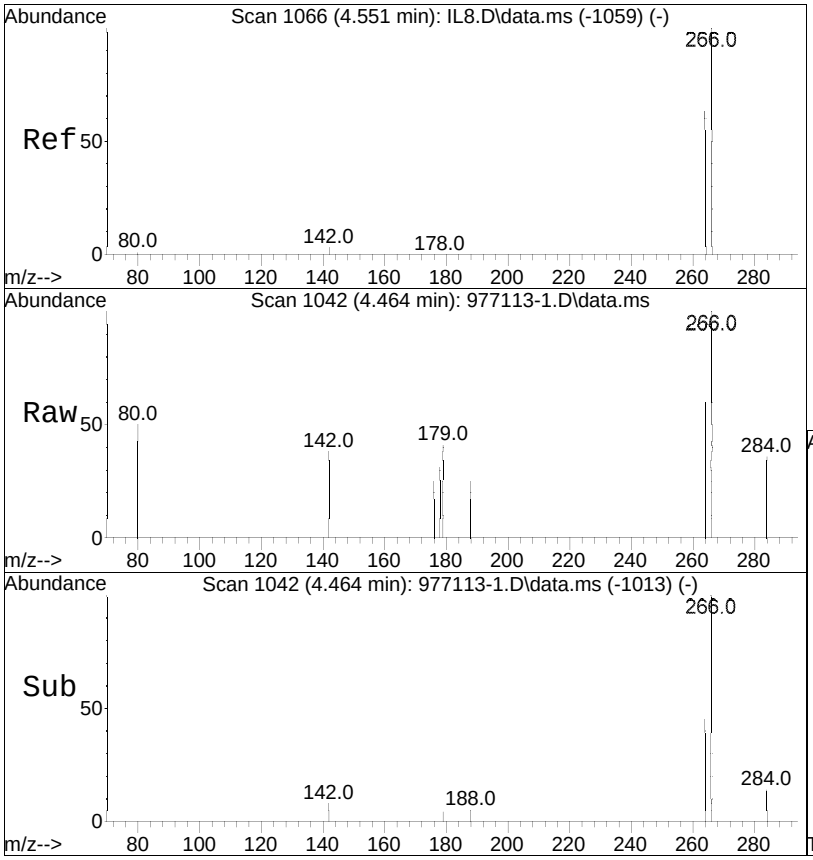


#24
Hexachlorobenzene
Concen: 1.49 ng/ml
RT: 4.344 min Scan# 999
Delta R.T. -0.002 min
Lab File: 977113-1.D
Acq: 28 Sep 2024 03:30 pm

Tgt Ion:284 Resp: 112

Ion	Ratio	Lower	Upper
284	100		
142	37.5	26.6	40.0

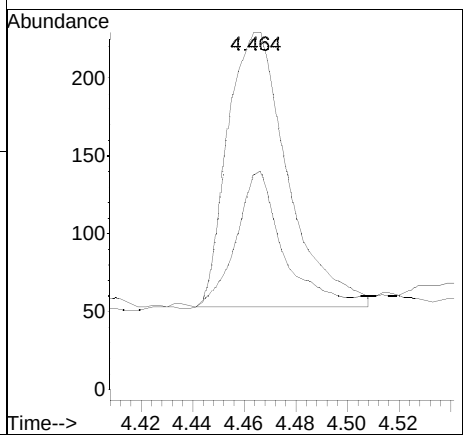




#25
Pentachlorophenol
Concen: 15.47 ng/ml
RT: 4.464 min Scan# 1042
Delta R.T. 0.001 min
Lab File: 977113-1.D
Acq: 28 Sep 2024 03:30 pm

Tgt Ion:266 Resp: 284

Ion	Ratio	Lower	Upper
266	100		
264	39.8	50.2	75.4#



Manual Integration Report

Data Path	: I:\8270SIM\sv120\240928RVT	Method	: SIM-RVT_240925_sv120.M
Data File	: 977113-1.D	Operator	: SV120:rp
Date Inj'd	: 9/28/2024 3:30 pm	Instrument	: SV120
Sample	: WG1977113-1,32,,rp	Quant Date	: 9/28/2024 3:43 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : 977113-2.D
Acq On : 28 Sep 2024 02:57 pm
Operator : SV120:rp
Sample : WG1977113-2,32,,rp
Misc : WG1977599,WG1977113,ical21522
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 28 15:53:52 2024
Quant Method : I:\8270sim\sv120\240928RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 13:11:11 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240928RVT\ccv0928.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.096	152	323339	4000.000	ng/ml	0.00
Standard Area 1 = 372654			Recovery = 86.77%			
8) Naphthalene-d8	2.750	136	1234145	4000.000	ng/ml	0.00
Standard Area 1 = 1416081			Recovery = 87.15%			
17) Acenaphthene-d10	3.720	164	695958	4000.000	ng/ml	0.00
Standard Area 1 = 810801			Recovery = 85.84%			
22) Phenanthrene-d10	4.555	188	1356424	4000.000	ng/ml	0.00
Standard Area 1 = 1583869			Recovery = 85.64%			
31) Chrysene-d12	6.087	240	1161701	4000.000	ng/ml	0.00
Standard Area 1 = 1368829			Recovery = 84.87%			
36) Perylene-d12	7.182	264	1097398	4000.000	ng/ml	0.00
Standard Area 1 = 1317176			Recovery = 83.31%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.539	112	91999	1029.080	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 51.45%			
3) Phenol-d6	1.923	99	87408	832.952	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 41.65%			
7) Nitrobenzene-d5	2.373	82	61108	688.900	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 68.89%			
13) 2-Fluorobiphenyl	3.347	172	139042	593.418	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 59.34%			
21) 2,4,6-Tribromophenol	4.165	330	50189	1612.266	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 80.61%			
30) 4-Terphenyl-d14	5.471	244	171073	720.133	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 36.01%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.963	93	115817	1259.053	ng/ml	99
6) Hexachloroethane	2.345	117	29195	737.468	ng/ml	100
9) Naphthalene	2.761	128	324846	1055.936	ng/ml	100
10) Hexachlorobutadiene	2.833	225	42612	723.632	ng/ml	100
11) 2-Methylnaphthalene	3.138	142	219323	1133.469	ng/ml	100
14) 2-Chloronaphthalene	3.407	162	232875	1154.928	ng/ml	92
16) Acenaphthylene	3.639	152	394254	1344.093	ng/ml	99
18) Acenaphthene	3.736	153	260673	1253.535	ng/ml	100
20) Fluorene	4.027	166	320728	1396.390	ng/ml	99
24) Hexachlorobenzene	4.344	284	112864	1447.286	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : 977113-2.D
Acq On : 28 Sep 2024 02:57 pm
Operator : SV120:rp
Sample : WG1977113-2,32,,rp
Misc : WG1977599,WG1977113,ical21522
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 28 15:53:52 2024
Quant Method : I:\8270sim\sv120\240928RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 13:11:11 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240928RVT\ccv0928.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.461	266	76147	1775.313	ng/ml	100
26) Phenanthrene	4.569	178	498401	1459.555	ng/ml	100
27) Anthracene	4.597	178	499418	1490.670	ng/ml	100
28) Fluoranthene	5.246	202	610753	1544.529	ng/ml	100
29) Pyrene	5.373	202	630514	1507.839	ng/ml	100
32) Benzo[a]anthracene	6.079	228	566523	1629.781	ng/ml	100
34) Chrysene	6.102	228	532699	1618.361	ng/ml	100
37) Benzo[b]fluoranthene	6.842	252	527026	1739.289	ng/ml	99
38) Benzo[k]fluoranthene	6.866	252	498603	1677.129	ng/ml	99
39) Benzo[a]pyrene	7.123	252	444914	1715.092	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.292	276	455754	1786.737	ng/ml	98
41) Dibenzo[a,h]anthracene	8.324	278	414098M6	1718.058	ng/ml	
42) Benzo[g,h,i]perylene	8.604	276	422502	1632.535	ng/ml	99

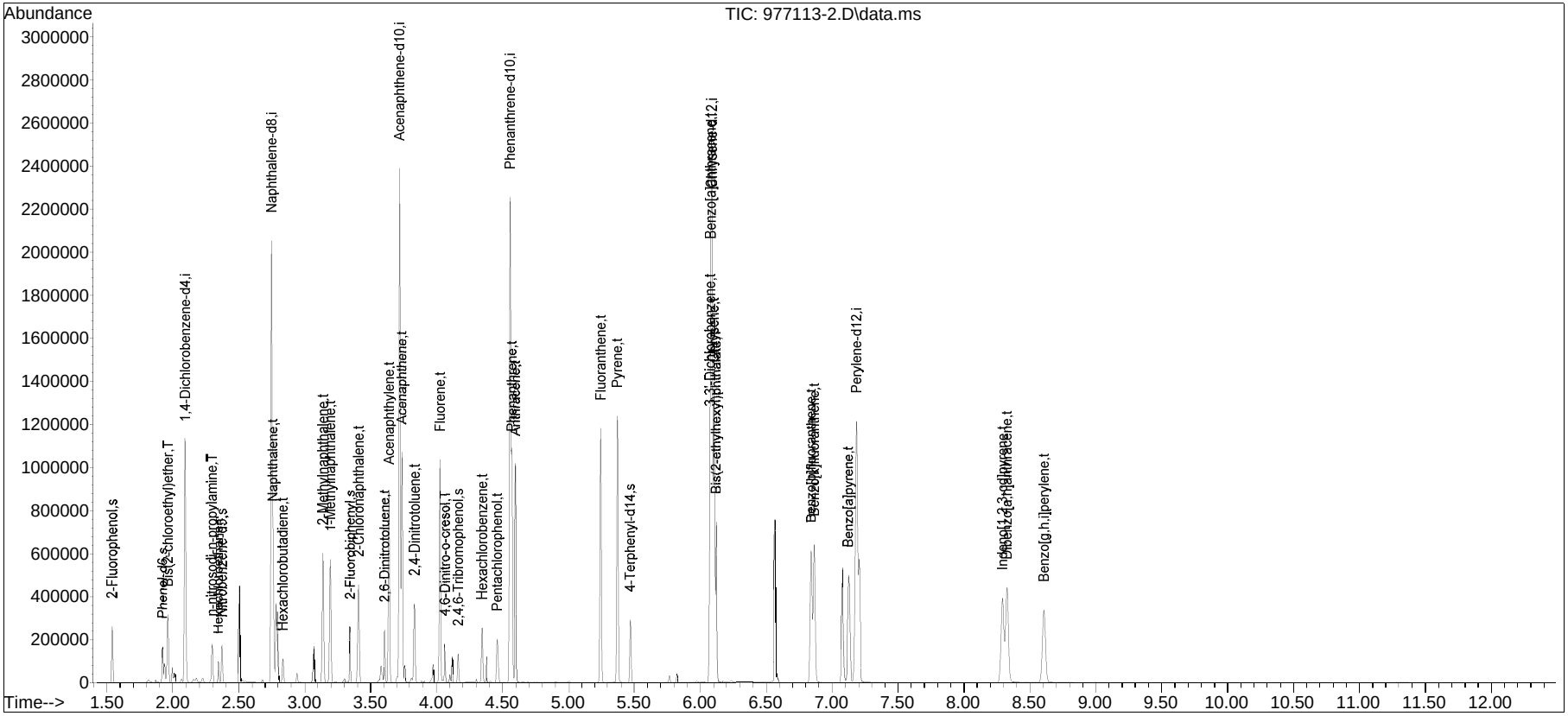
(#) = qualifier out of range (m) = manual integration (+) = signals summed

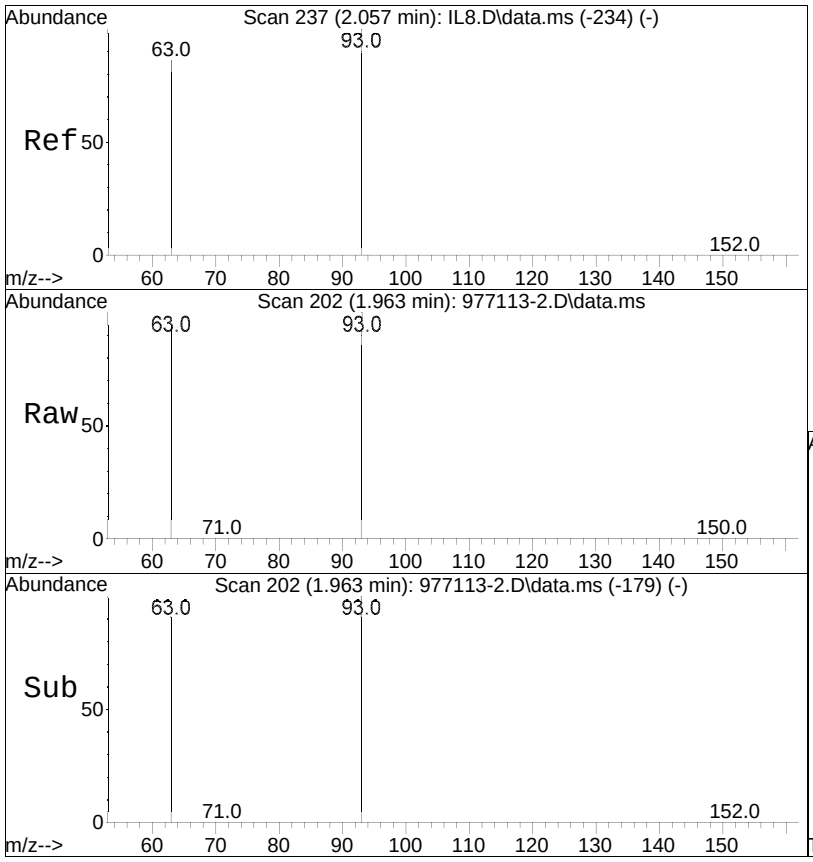
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : 977113-2.D
Acq On : 28 Sep 2024 02:57 pm
Operator : SV120:rp
Sample : WG1977113-2,32,,rp
Misc : WG1977599,WG1977113,ical21522
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 28 15:53:52 2024
Quant Method : I:\8270sim\sv120\240928RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 13:11:11 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0928.D•

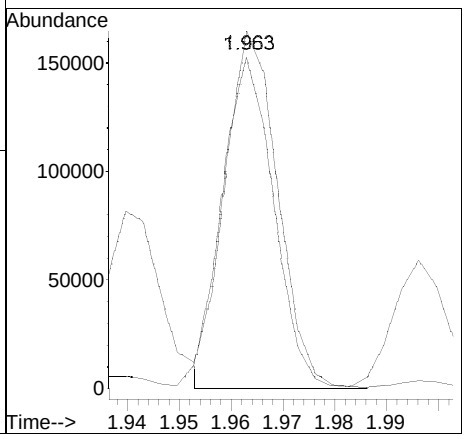


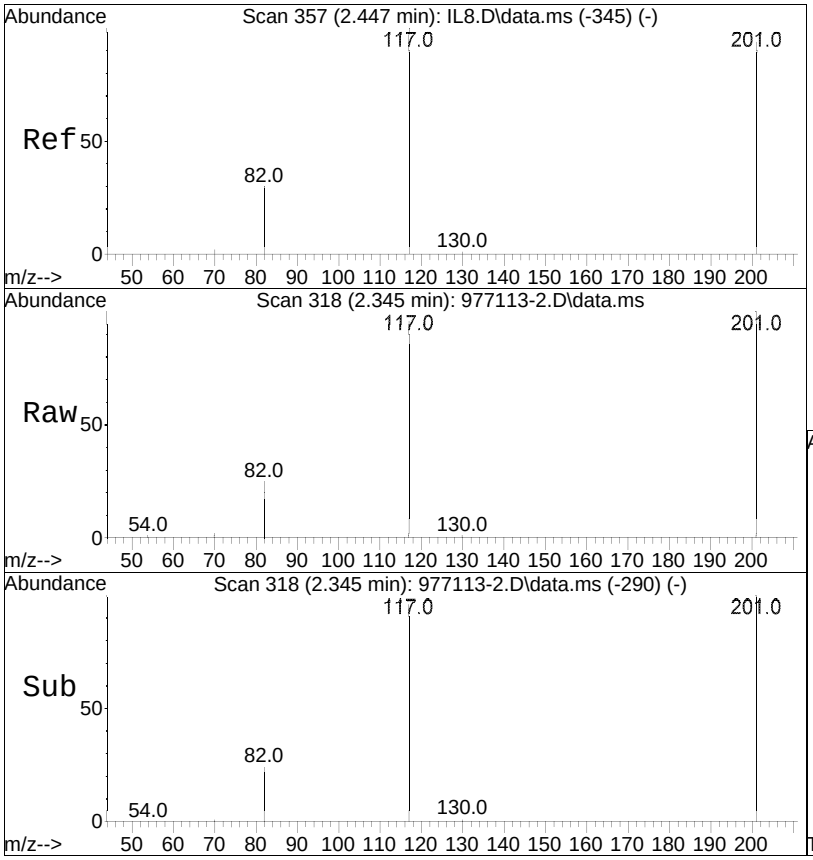


#4
Bis(2-chloroethyl)ether
Concen: 1259.05 ng/ml
RT: 1.963 min Scan# 202
Delta R.T. -0.004 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion: 93 Resp: 115817

Ion	Ratio	Lower	Upper
93	100		
63	92.0	73.0	109.4

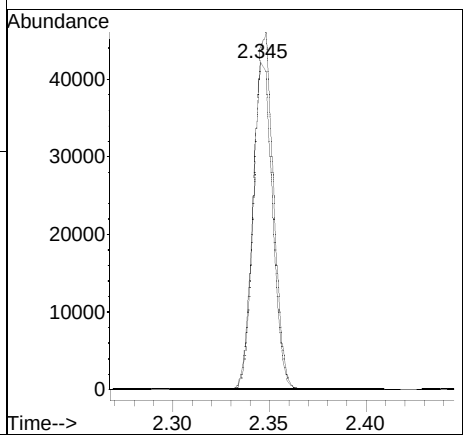


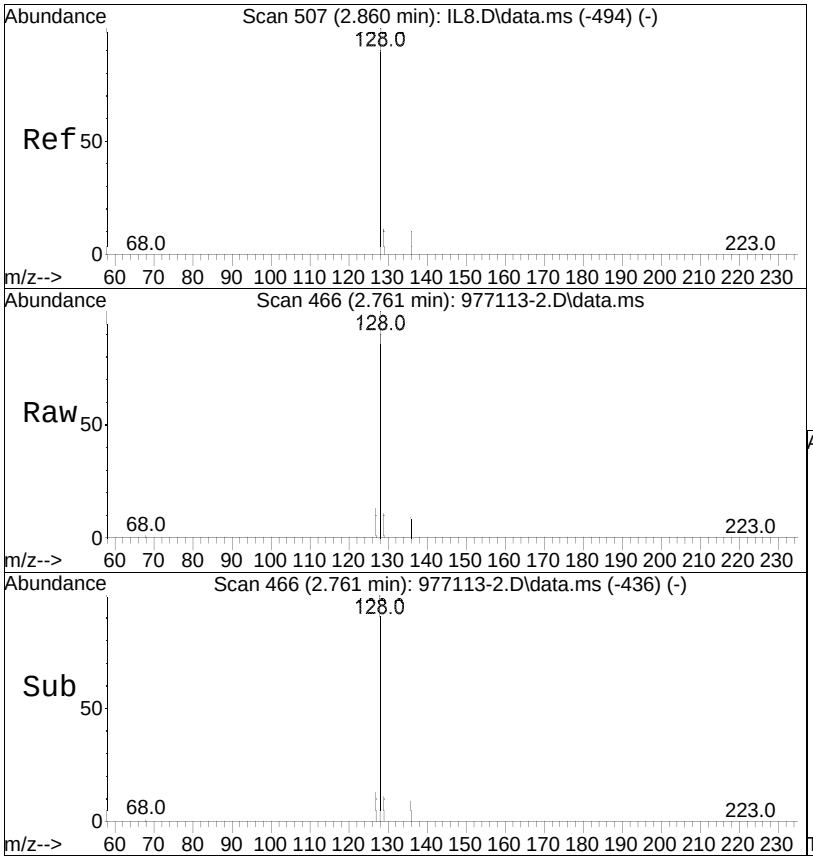


#6
Hexachloroethane
Concen: 737.47 ng/ml
RT: 2.345 min Scan# 318
Delta R.T. -0.003 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:117 Resp: 29195

Ion	Ratio	Lower	Upper
117	100		
201	108.0	86.2	129.2

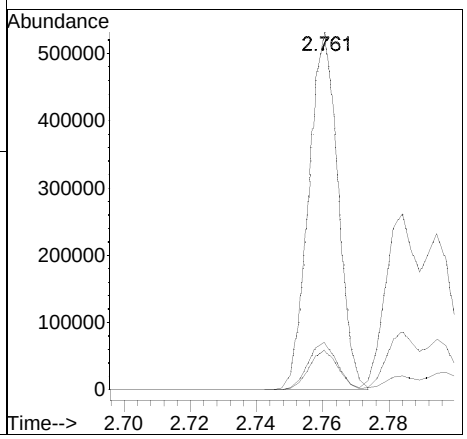


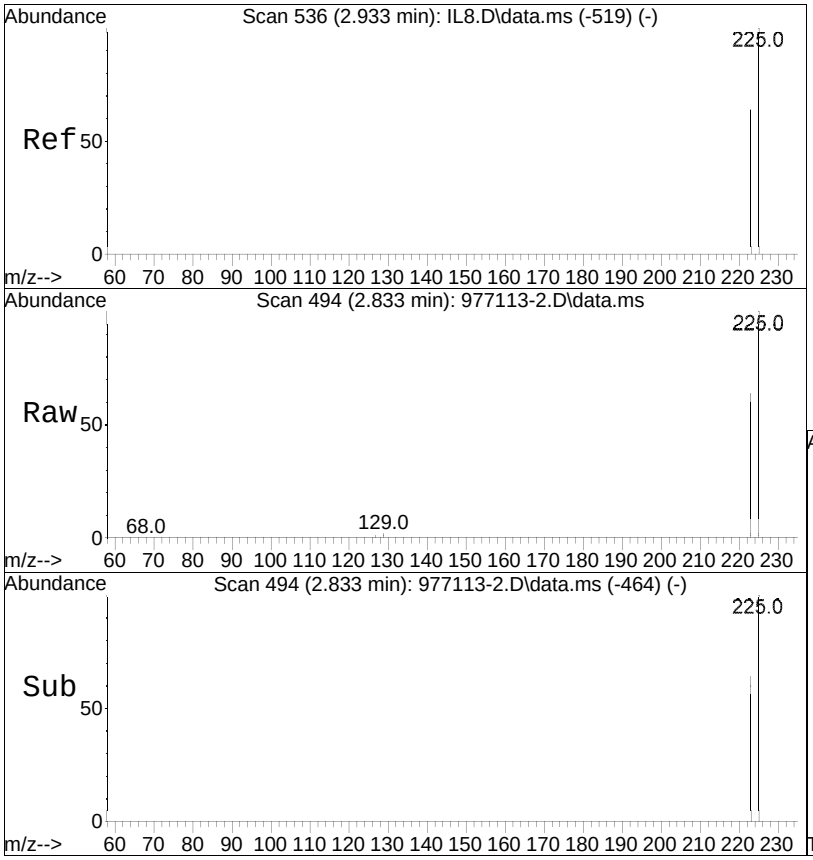


#9
Naphthalene
Concen: 1055.94 ng/ml
RT: 2.761 min Scan# 466
Delta R.T. -0.003 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:128 Resp: 324846

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.3	10.6	16.0

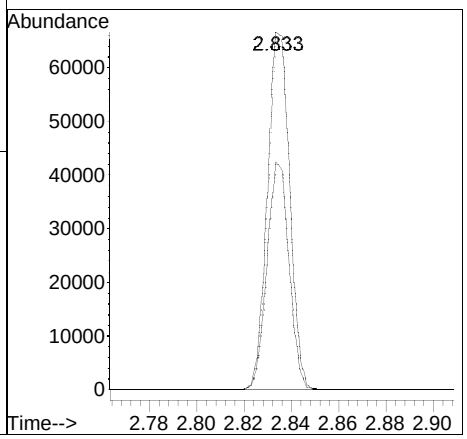


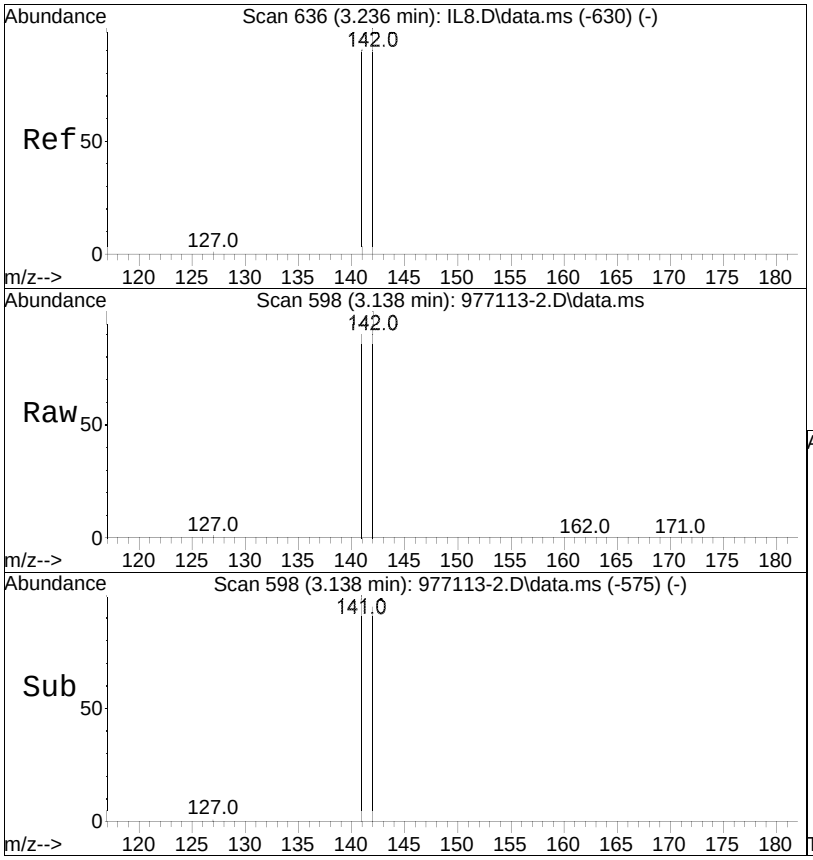


#10
Hexachlorobutadiene
Concen: 723.63 ng/ml
RT: 2.833 min Scan# 494
Delta R.T. -0.003 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:225 Resp: 42612

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.3	75.5

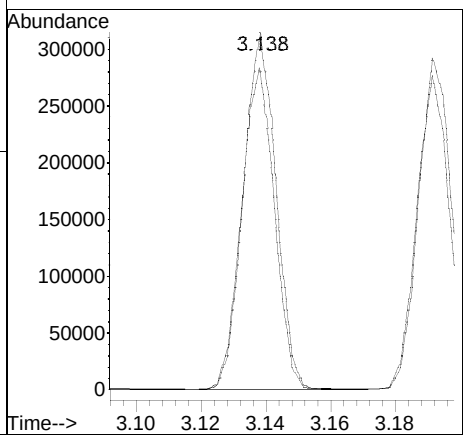


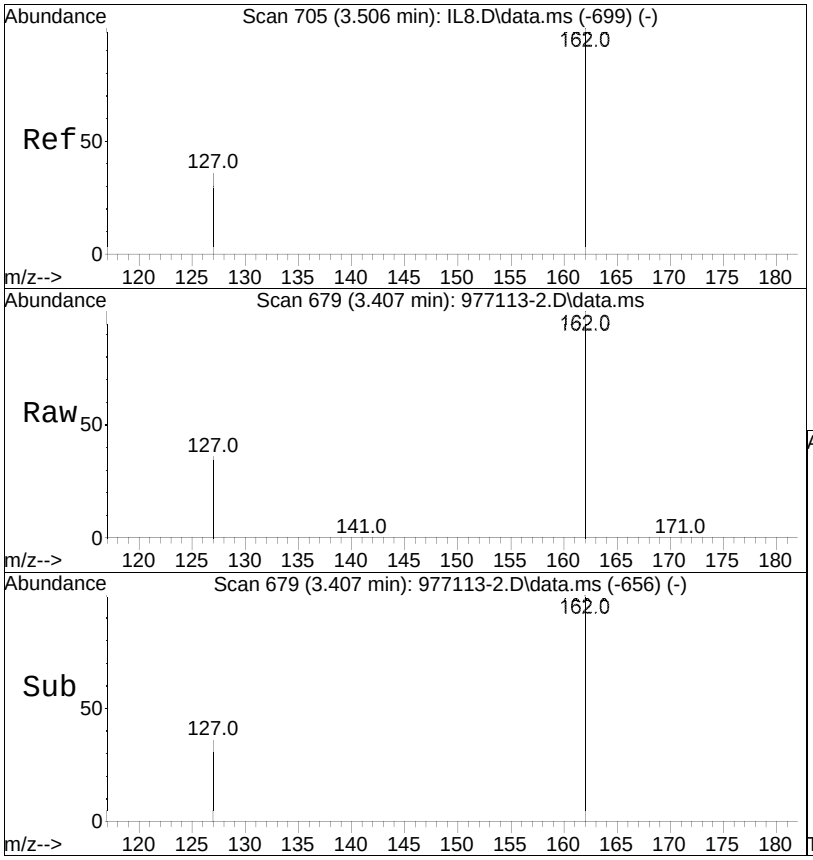


#11
2-Methylnaphthalene
Concen: 1133.47 ng/ml
RT: 3.138 min Scan# 598
Delta R.T. -0.003 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:142 Resp: 219323

Ion	Ratio	Lower	Upper
142	100		
141	91.3	73.3	109.9

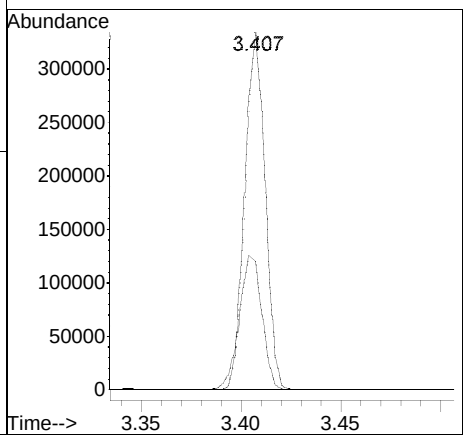


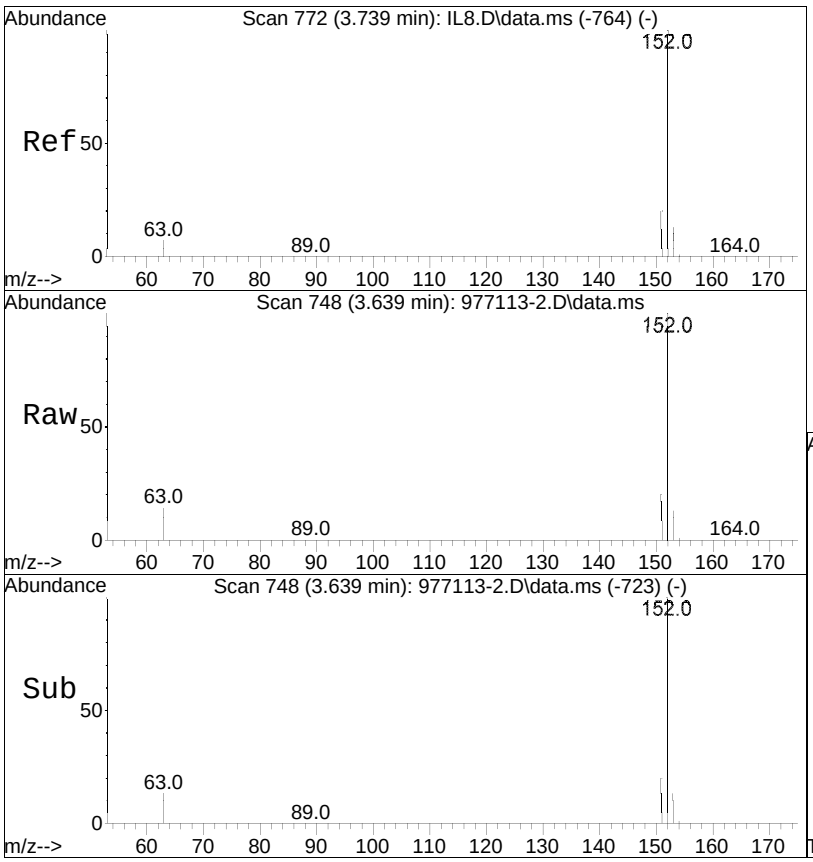


#14
2-Chloronaphthalene
Concen: 1154.93 ng/ml
RT: 3.407 min Scan# 679
Delta R.T. -0.003 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:162 Resp: 232875

Ion	Ratio	Lower	Upper
162	100		
127	42.1	30.1	45.1

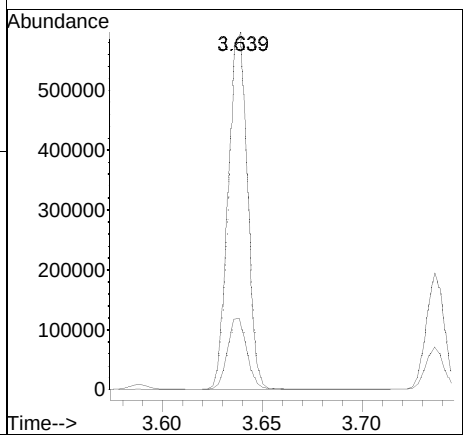


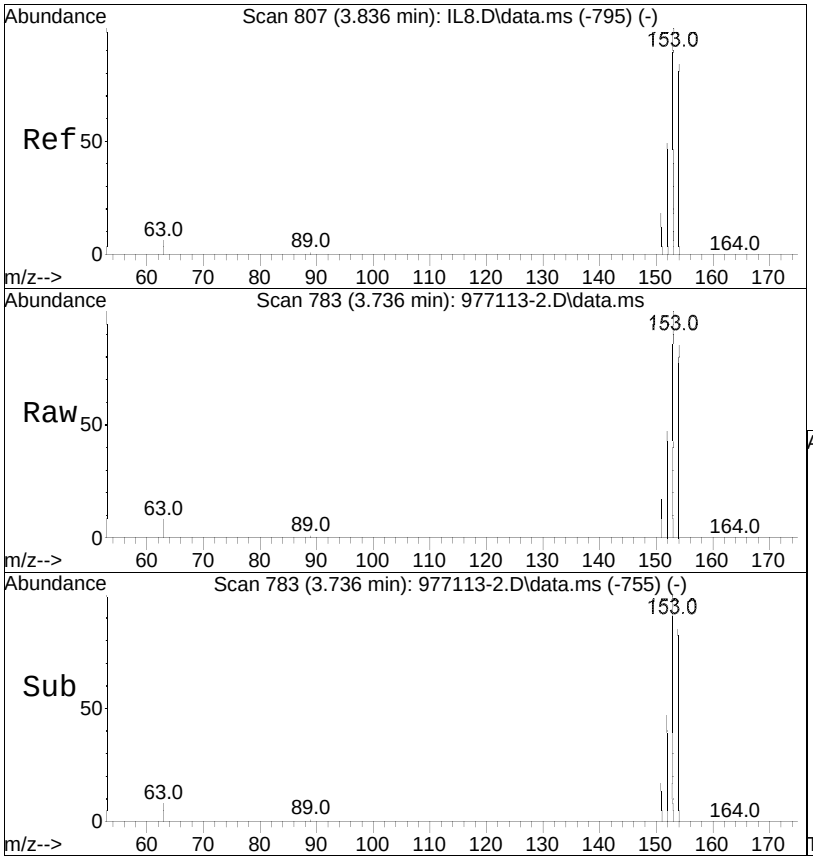


#16
Acenaphthylene
Concen: 1344.09 ng/ml
RT: 3.639 min Scan# 748
Delta R.T. -0.002 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:152 Resp: 394254

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2

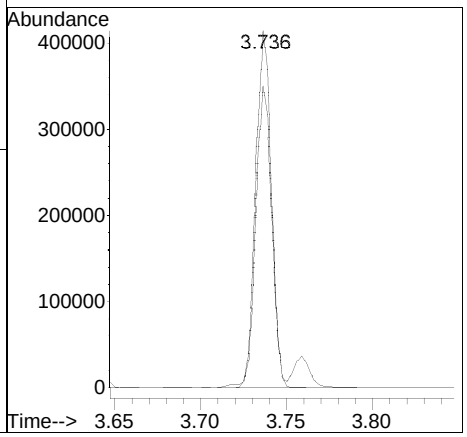


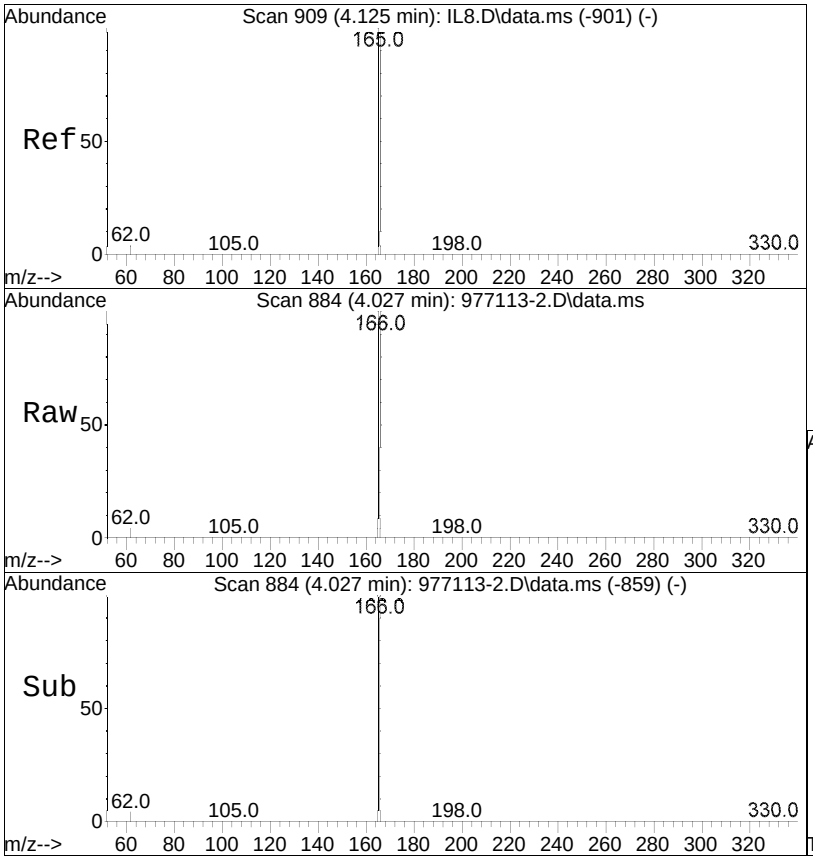


#18
Acenaphthene
Concen: 1253.53 ng/ml
RT: 3.736 min Scan# 783
Delta R.T. -0.002 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:153 Resp: 260673

Ion	Ratio	Lower	Upper
153	100		
154	86.2	69.1	103.7

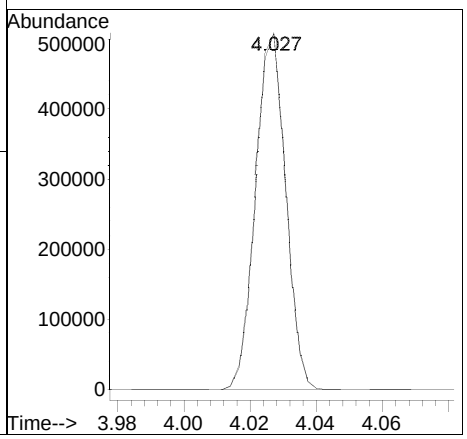


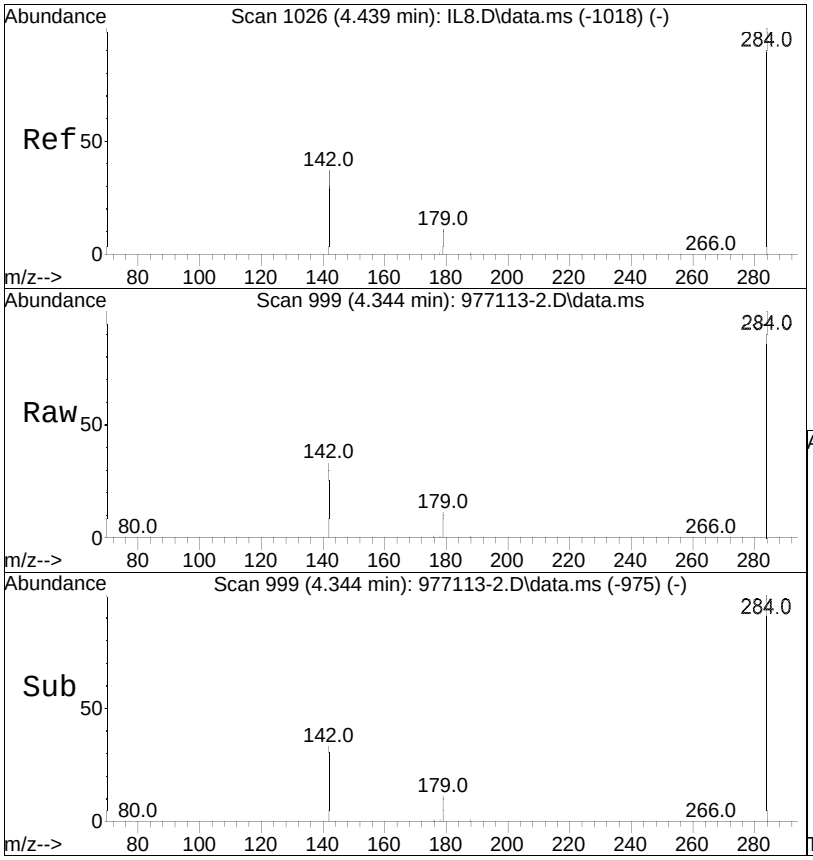


#20
Fluorene
Concen: 1396.39 ng/ml
RT: 4.027 min Scan# 884
Delta R.T. -0.002 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:166 Resp: 320728

Ion	Ratio	Lower	Upper
166	100		
165	100.6	81.4	122.2

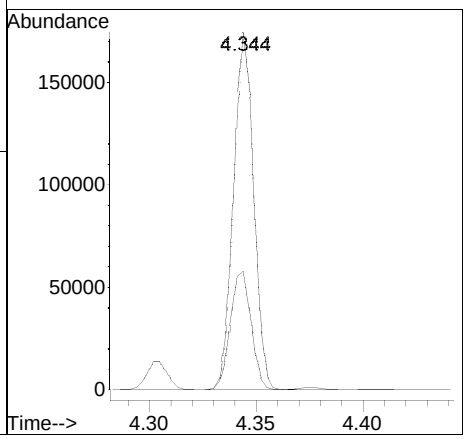


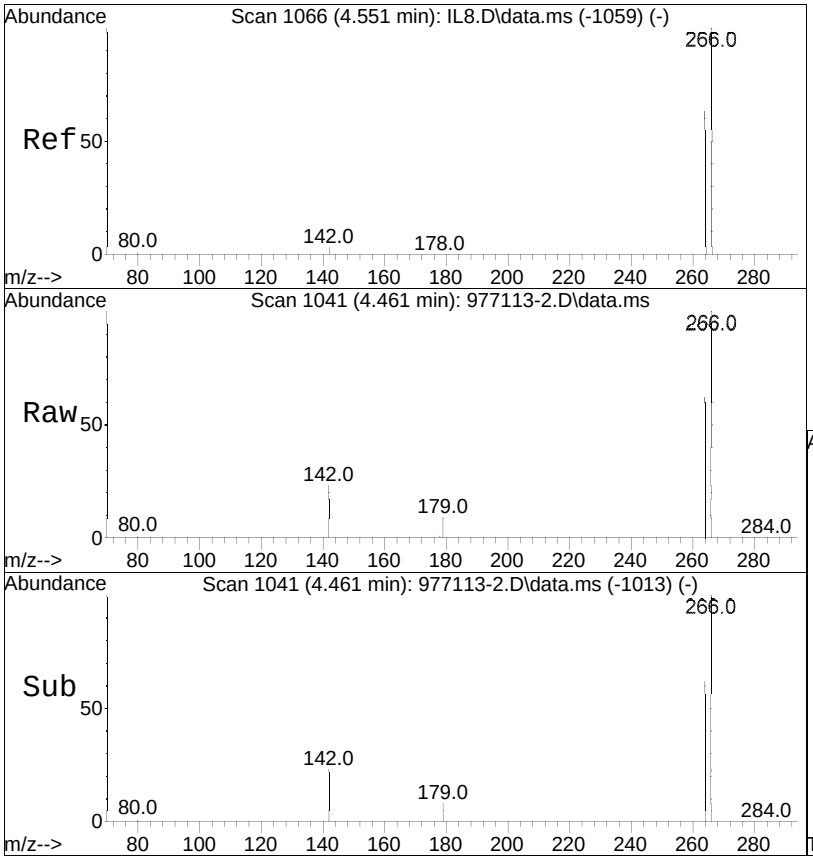


#24
Hexachlorobenzene
Concen: 1447.29 ng/ml
RT: 4.344 min Scan# 999
Delta R.T. -0.002 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:284 Resp: 112864

Ion	Ratio	Lower	Upper
284	100		
142	34.1	26.6	40.0

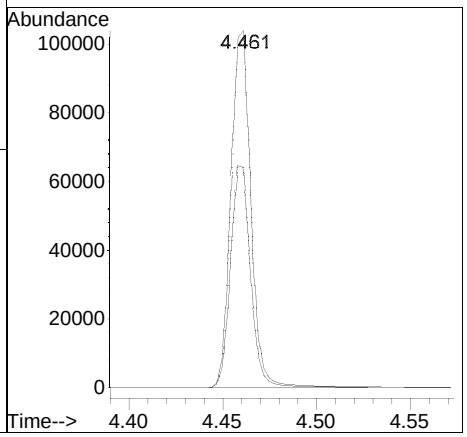


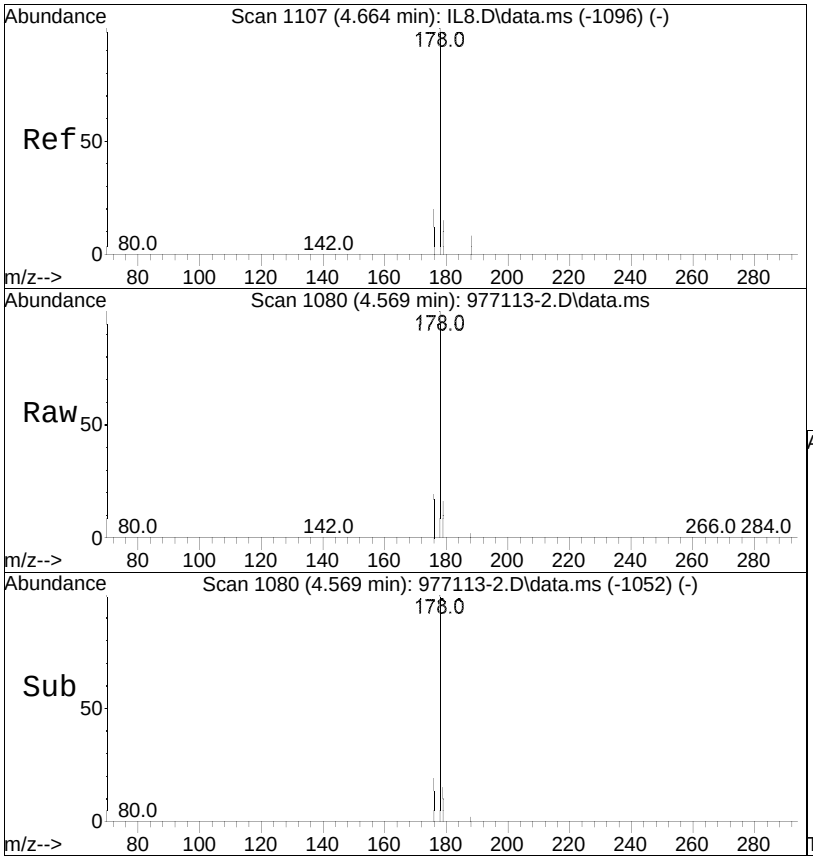


#25
Pentachlorophenol
Concen: 1775.31 ng/ml
RT: 4.461 min Scan# 1041
Delta R.T. -0.002 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:266 Resp: 76147

Ion	Ratio	Lower	Upper
266	100		
264	62.9	50.2	75.4

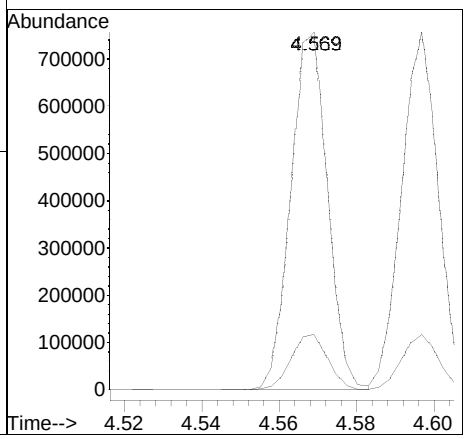


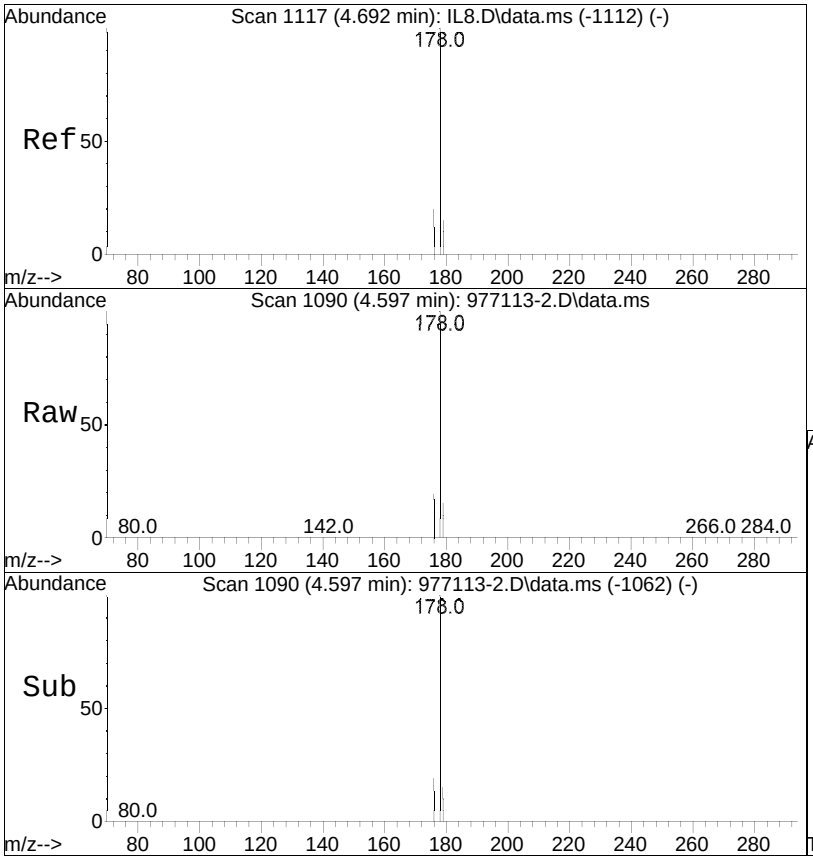


#26
Phenanthrene
Concen: 1459.56 ng/ml
RT: 4.569 min Scan# 1080
Delta R.T. -0.002 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:178 Resp: 498401

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.6	18.8

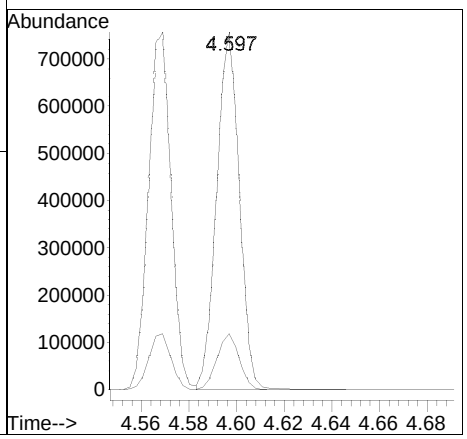


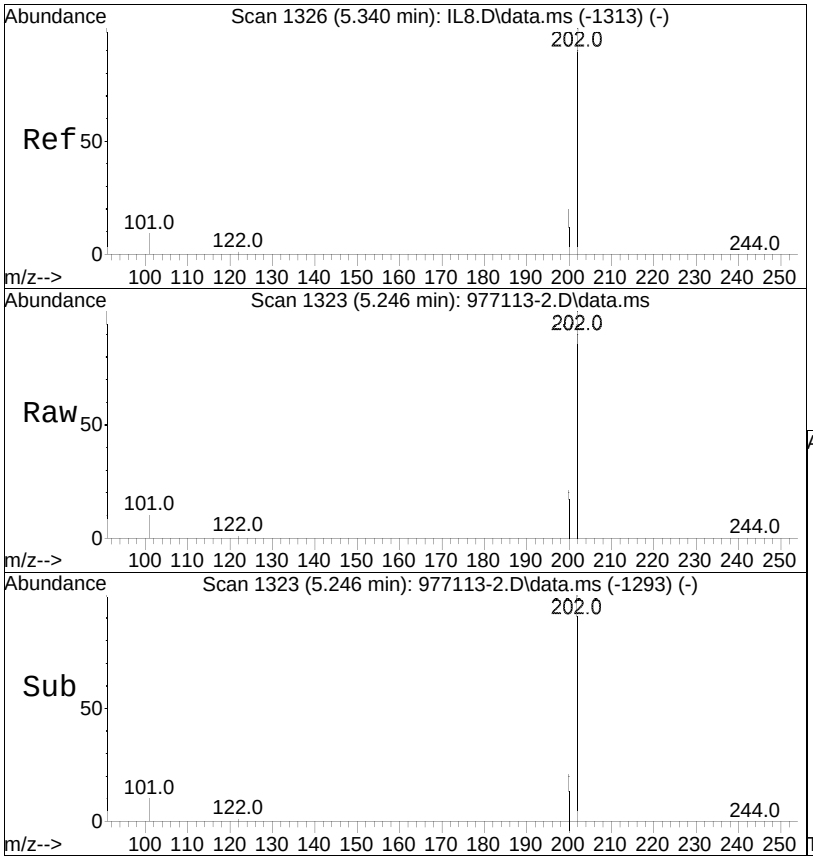


#27
Anthracene
Concen: 1490.67 ng/ml
RT: 4.597 min Scan# 1090
Delta R.T. -0.002 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:178 Resp: 499418

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

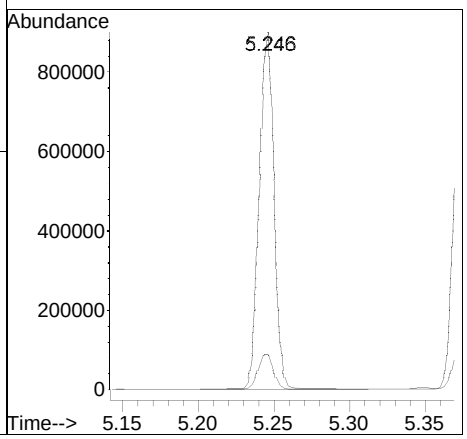


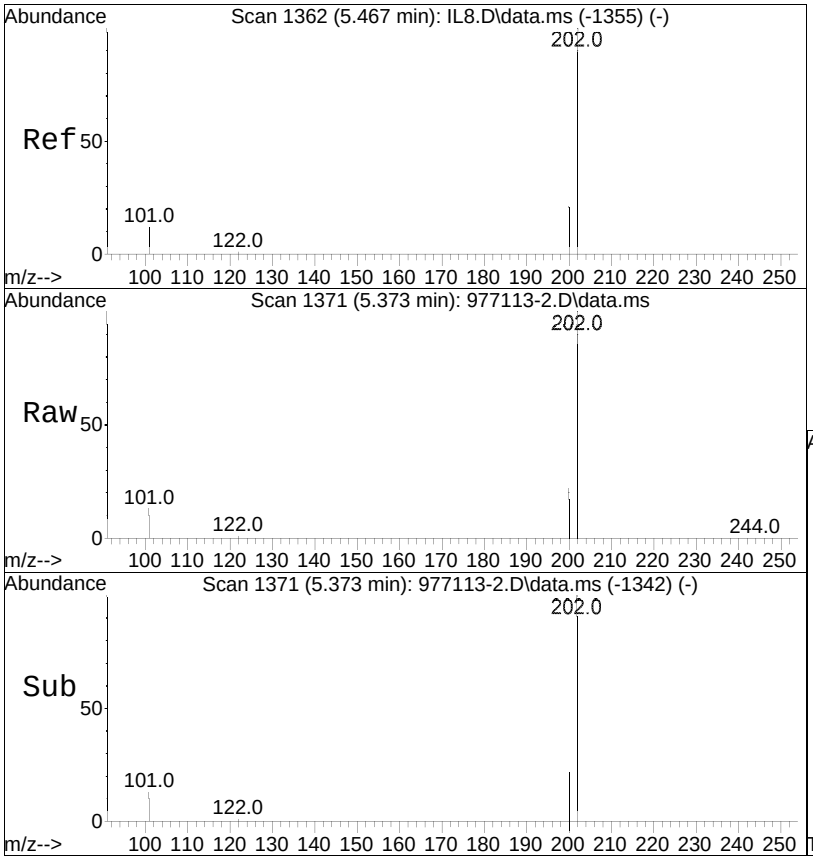


#28
Fluoranthene
Concen: 1544.53 ng/ml
RT: 5.246 min Scan# 1323
Delta R.T. -0.002 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:202 Resp: 610753

Ion	Ratio	Lower	Upper
202	100		
101	10.3	8.3	12.5

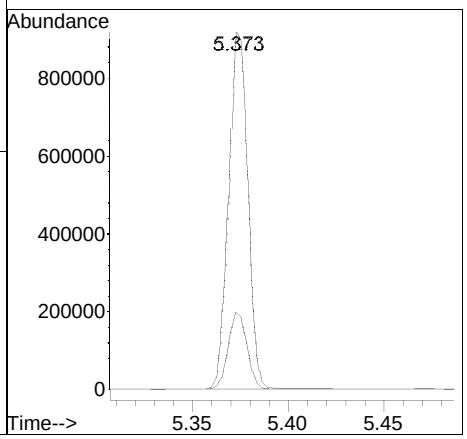


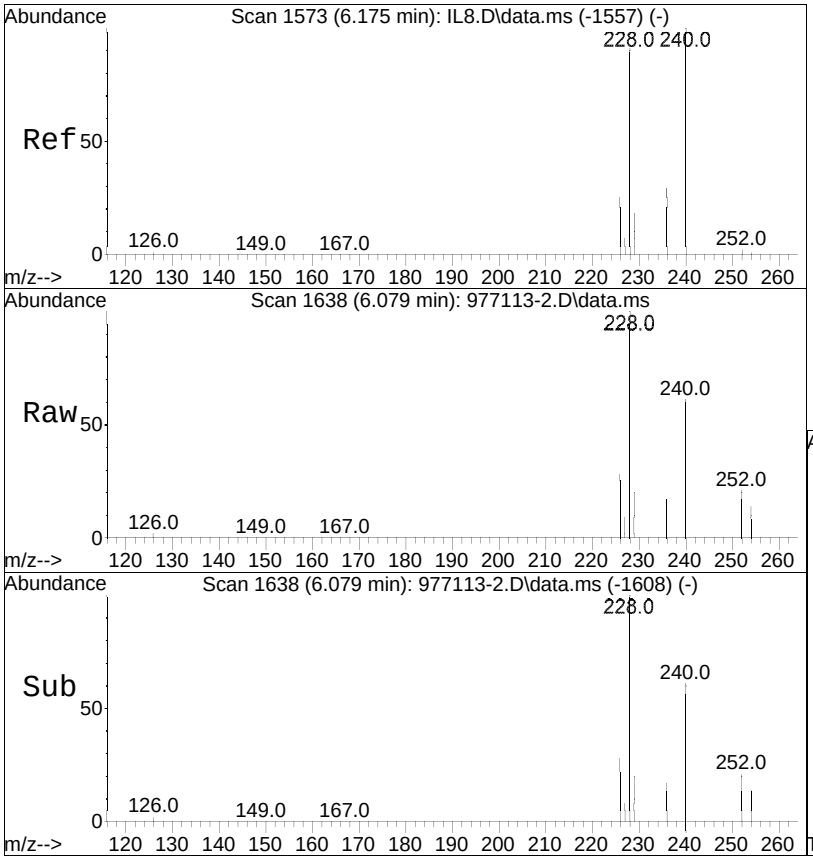


#29
Pyrene
Concen: 1507.84 ng/ml
RT: 5.373 min Scan# 1371
Delta R.T. -0.004 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:202 Resp: 630514

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3

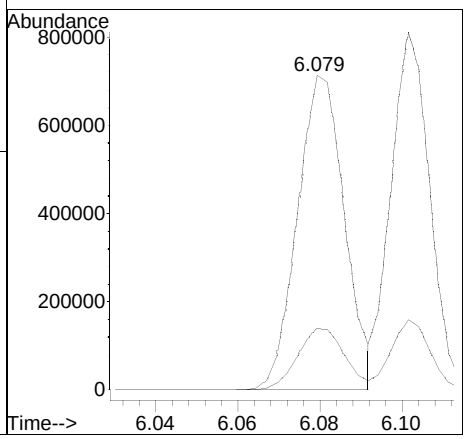


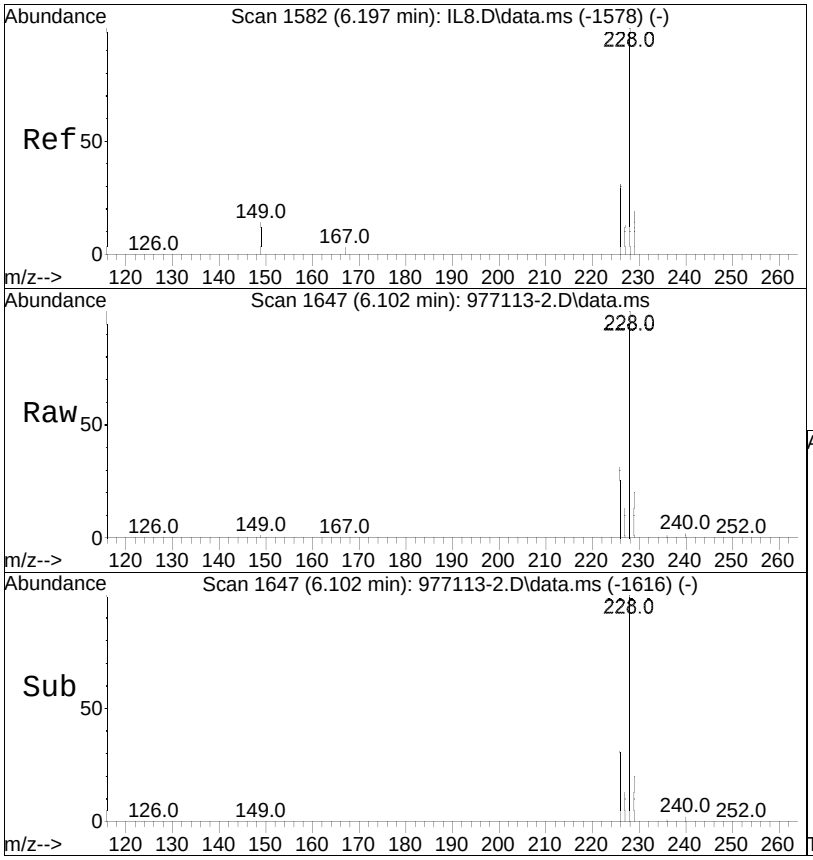


#32
Benzo[a]anthracene
Concen: 1629.78 ng/ml
RT: 6.079 min Scan# 1638
Delta R.T. -0.007 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:228 Resp: 566523

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.6	23.4

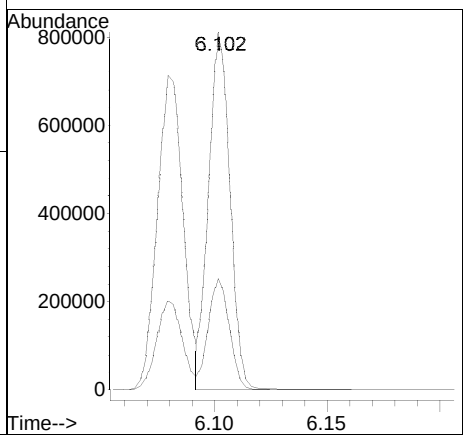


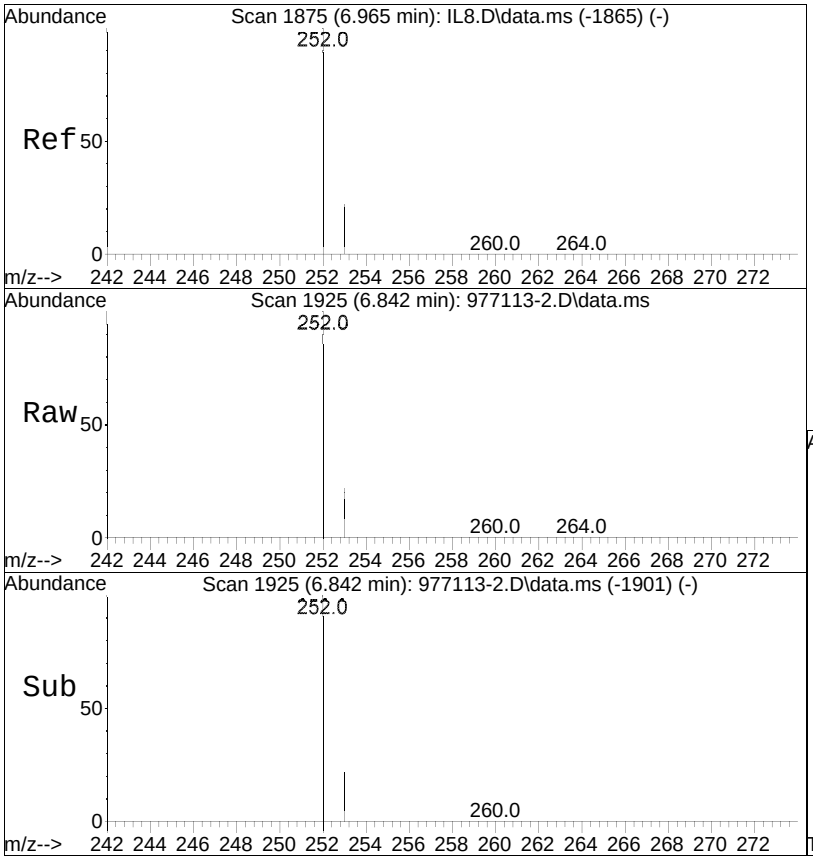


#34
Chrysene
Concen: 1618.36 ng/ml
RT: 6.102 min Scan# 1647
Delta R.T. -0.004 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:228 Resp: 532699

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	36.8

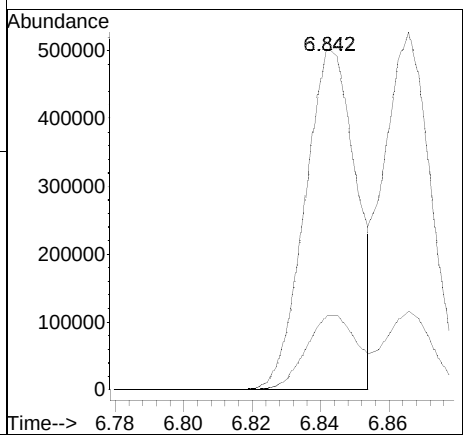


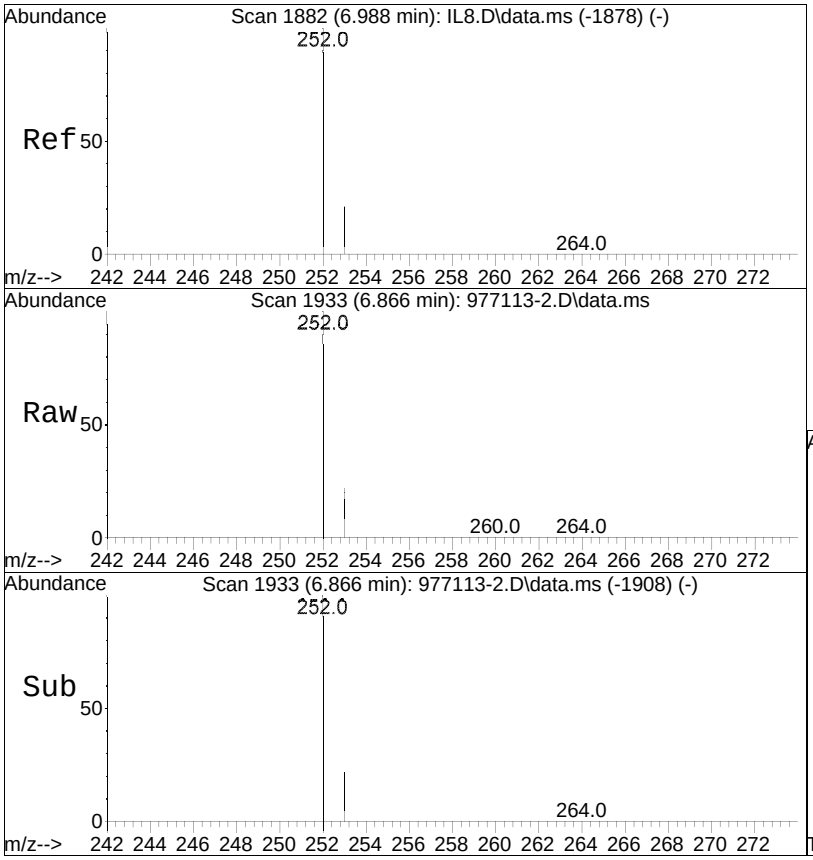


#37
Benzo[b]fluoranthene
Concen: 1739.29 ng/ml
RT: 6.842 min Scan# 1925
Delta R.T. -0.008 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:252 Resp: 527026

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.3	25.9

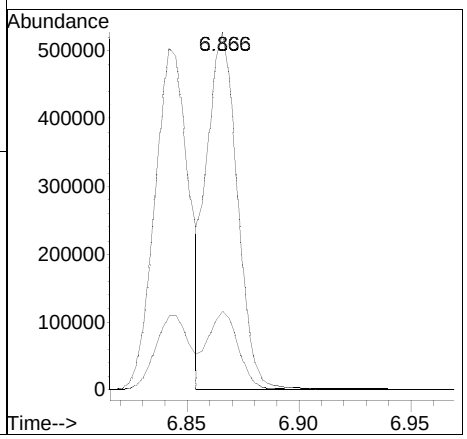


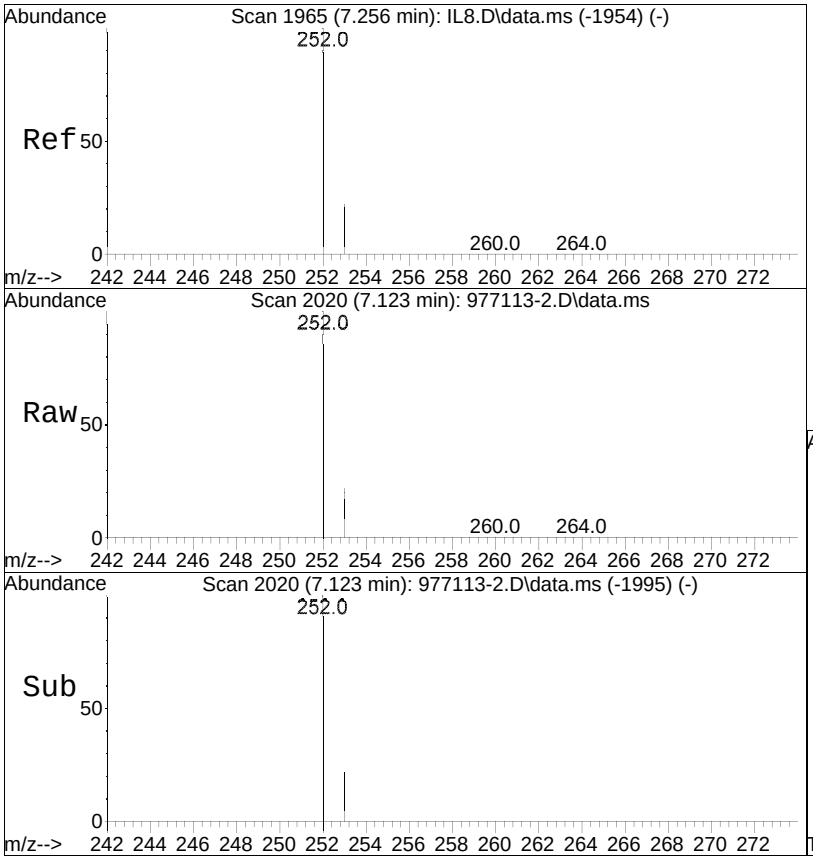


#38
Benzo[k]fluoranthene
Concen: 1677.13 ng/ml
RT: 6.866 min Scan# 1933
Delta R.T. -0.005 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:252 Resp: 498603

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3

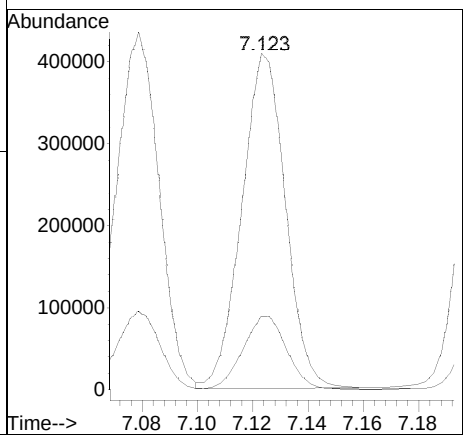


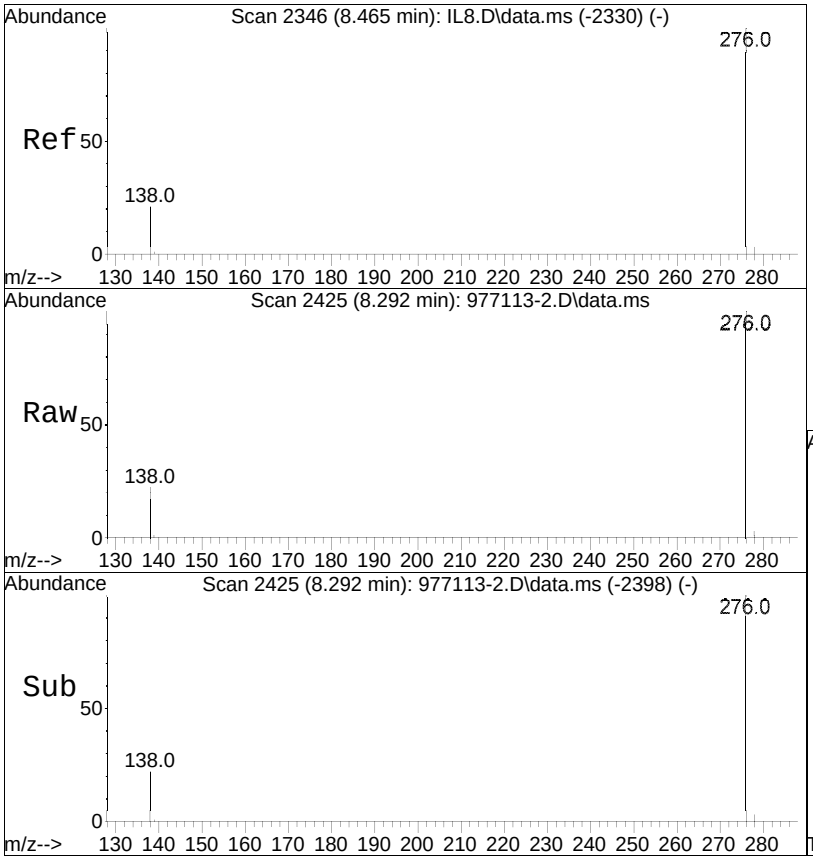


#39
Benzo[a]pyrene
Concen: 1715.09 ng/ml
RT: 7.123 min Scan# 2020
Delta R.T. -0.005 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:252 Resp: 444914

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0

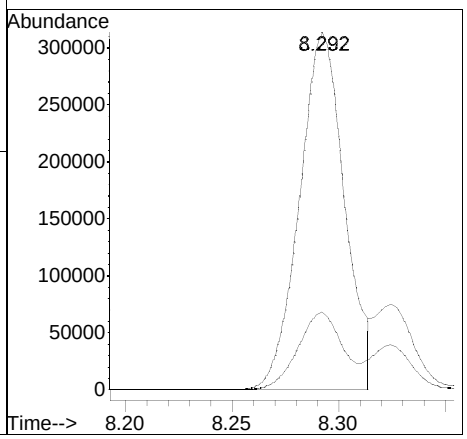


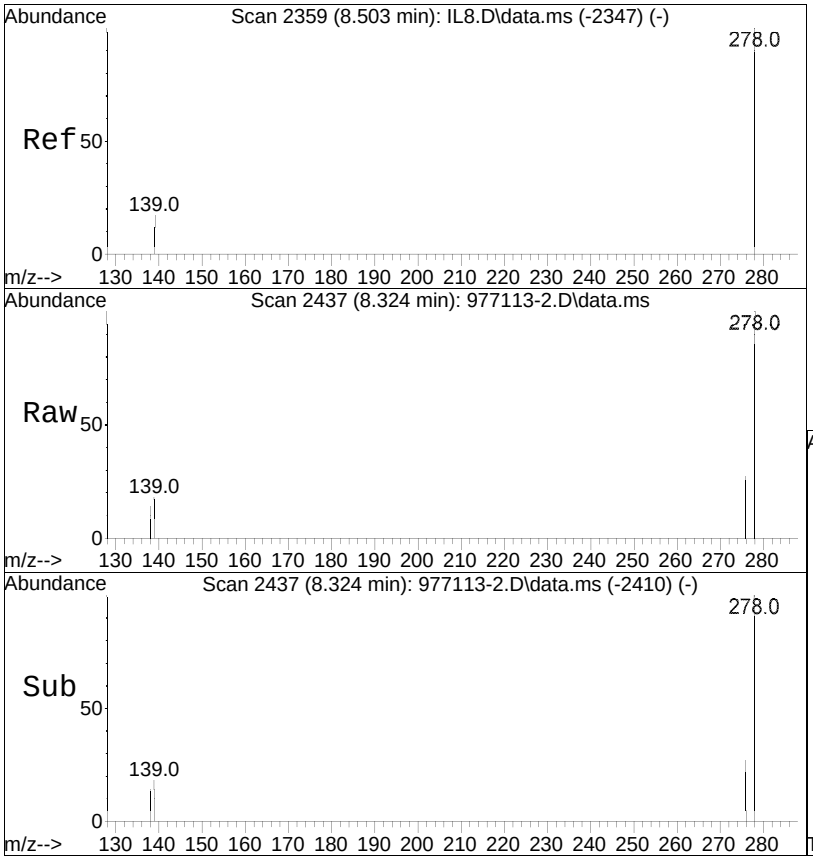


#40
Indeno[1,2,3-cd]pyrene
Concen: 1786.74 ng/ml
RT: 8.292 min Scan# 2425
Delta R.T. -0.007 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:276 Resp: 455754

Ion	Ratio	Lower	Upper
276	100		
138	21.4	16.5	24.7

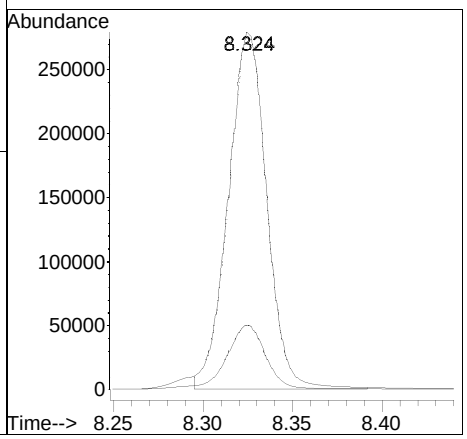


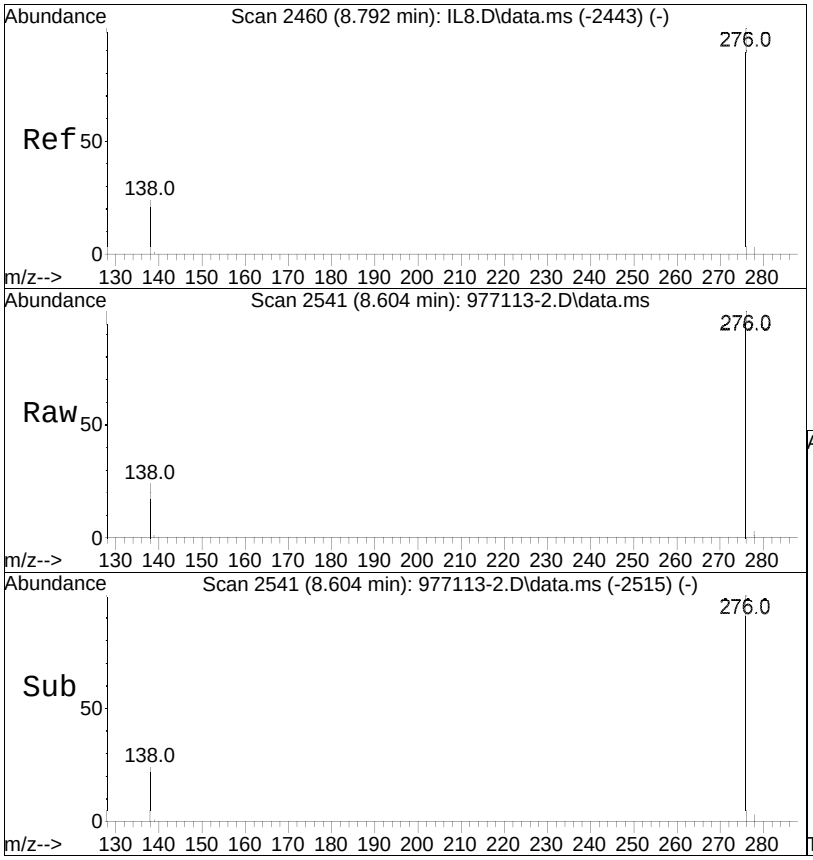


#41
Dibenzo[a,h]anthracene
Concen: 1718.06 ng/ml M6
RT: 8.324 min Scan# 2437
Delta R.T. -0.007 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:278 Resp: 414098

Ion	Ratio	Lower	Upper
278	100		
139	18.5	14.5	21.7

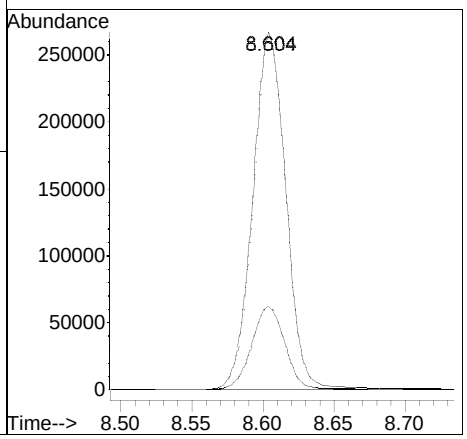




#42
Benzo[g,h,i]perylene
Concen: 1632.54 ng/ml
RT: 8.604 min Scan# 2541
Delta R.T. -0.009 min
Lab File: 977113-2.D
Acq: 28 Sep 2024 02:57 pm

Tgt Ion:276 Resp: 422502

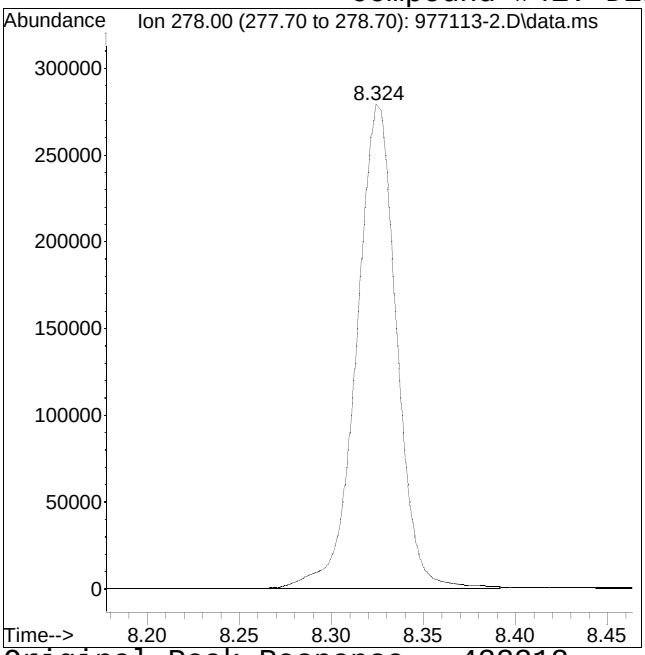
Ion	Ratio	Lower	Upper
276	100		
138	23.7	18.6	27.8



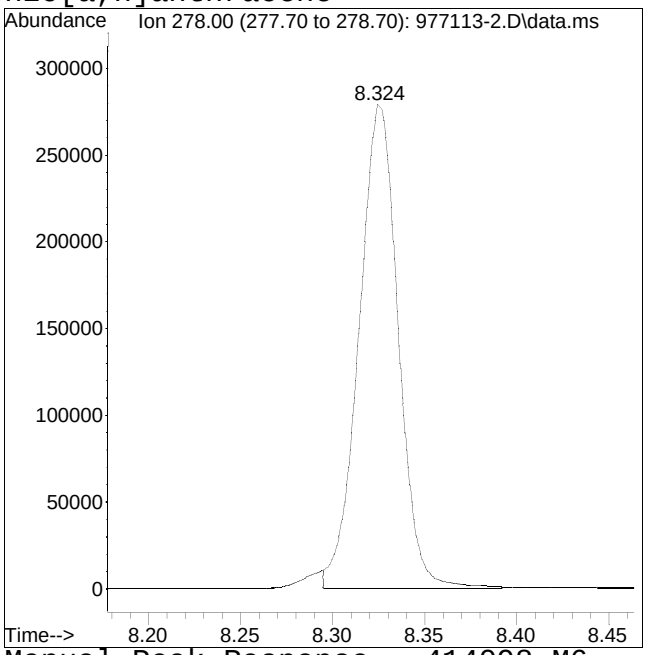
Manual Integration Report

Data Path : I:\8270SIM\sv120\240928RVTQMethod : SIM-RVT_240925_sv120.M
Data File : 977113-2.D Operator : SV120:rp
Date Inj'd : 9/28/2024 2:57 pm Instrument : SV120
Sample : WG1977113-2,32,,rp Quant Date : 9/28/2024 3:11 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 423312



Manual Peak Response = 414098 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : 977113-3.D
Acq On : 28 Sep 2024 03:14 pm
Operator : SV120:rp
Sample : WG1977113-3,32,,rp
Misc : WG1977599,WG1977113,ical21522
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 28 15:54:36 2024
Quant Method : I:\8270sim\sv120\240928RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 13:11:11 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240928RVT\ccv0928.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.096	152	307699	4000.000	ng/ml	0.00
Standard Area 1 = 372654			Recovery = 82.57%			
8) Naphthalene-d8	2.750	136	1169052	4000.000	ng/ml	0.00
Standard Area 1 = 1416081			Recovery = 82.56%			
17) Acenaphthene-d10	3.719	164	661213	4000.000	ng/ml	0.00
Standard Area 1 = 810801			Recovery = 81.55%			
22) Phenanthrene-d10	4.557	188	1306165	4000.000	ng/ml	0.00
Standard Area 1 = 1583869			Recovery = 82.47%			
31) Chrysene-d12	6.089	240	1127584	4000.000	ng/ml	0.00
Standard Area 1 = 1368829			Recovery = 82.38%			
36) Perylene-d12	7.184	264	1071515	4000.000	ng/ml	0.00
Standard Area 1 = 1317176			Recovery = 81.35%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.539	112	89285	1049.486	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 52.47%			
3) Phenol-d6	1.923	99	85763	858.817	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 42.94%			
7) Nitrobenzene-d5	2.373	82	58895	697.700	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 69.77%			
13) 2-Fluorobiphenyl	3.346	172	132962	599.066	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 59.91%			
21) 2,4,6-Tribromophenol	4.164	330	47868	1618.509	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 80.93%			
30) 4-Terphenyl-d14	5.473	244	165477	723.379	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 36.17%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.963	93	111920	1278.531	ng/ml	100
6) Hexachloroethane	2.345	117	29751	789.711	ng/ml	100
9) Naphthalene	2.761	128	317176	1088.411	ng/ml	100
10) Hexachlorobutadiene	2.834	225	43131	773.228	ng/ml	100
11) 2-Methylnaphthalene	3.137	142	215991	1178.402	ng/ml	99
14) 2-Chloronaphthalene	3.406	162	227124	1189.124	ng/ml	92
16) Acenaphthylene	3.638	152	378804	1363.327	ng/ml	100
18) Acenaphthene	3.736	153	252580	1278.442	ng/ml	100
20) Fluorene	4.026	166	304534	1395.556	ng/ml	99
24) Hexachlorobenzene	4.343	284	106847	1422.849	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : 977113-3.D
Acq On : 28 Sep 2024 03:14 pm
Operator : SV120:rp
Sample : WG1977113-3,32,,rp
Misc : WG1977599,WG1977113,ical21522
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 28 15:54:36 2024
Quant Method : I:\8270sim\sv120\240928RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 13:11:11 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240928RVT\ccv0928.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.460	266	71228	1736.032	ng/ml	99
26) Phenanthrene	4.568	178	471869	1435.029	ng/ml	100
27) Anthracene	4.596	178	478783	1484.067	ng/ml	100
28) Fluoranthene	5.245	202	576272	1513.406	ng/ml	100
29) Pyrene	5.375	202	598371	1486.032	ng/ml	100
32) Benzo[a]anthracene	6.081	228	544829	1614.702	ng/ml	100
34) Chrysene	6.103	228	501971	1571.150	ng/ml	100
37) Benzo[b]fluoranthene	6.844	252	510637	1725.909	ng/ml	100
38) Benzo[k]fluoranthene	6.868	252	475375	1637.623	ng/ml	100
39) Benzo[a]pyrene	7.125	252	428242	1690.700	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.294	276	447094	1795.126	ng/ml	99
41) Dibenzo[a,h]anthracene	8.326	278	403090M6	1712.784	ng/ml	
42) Benzo[g,h,i]perylene	8.605	276	407151	1611.221	ng/ml	99

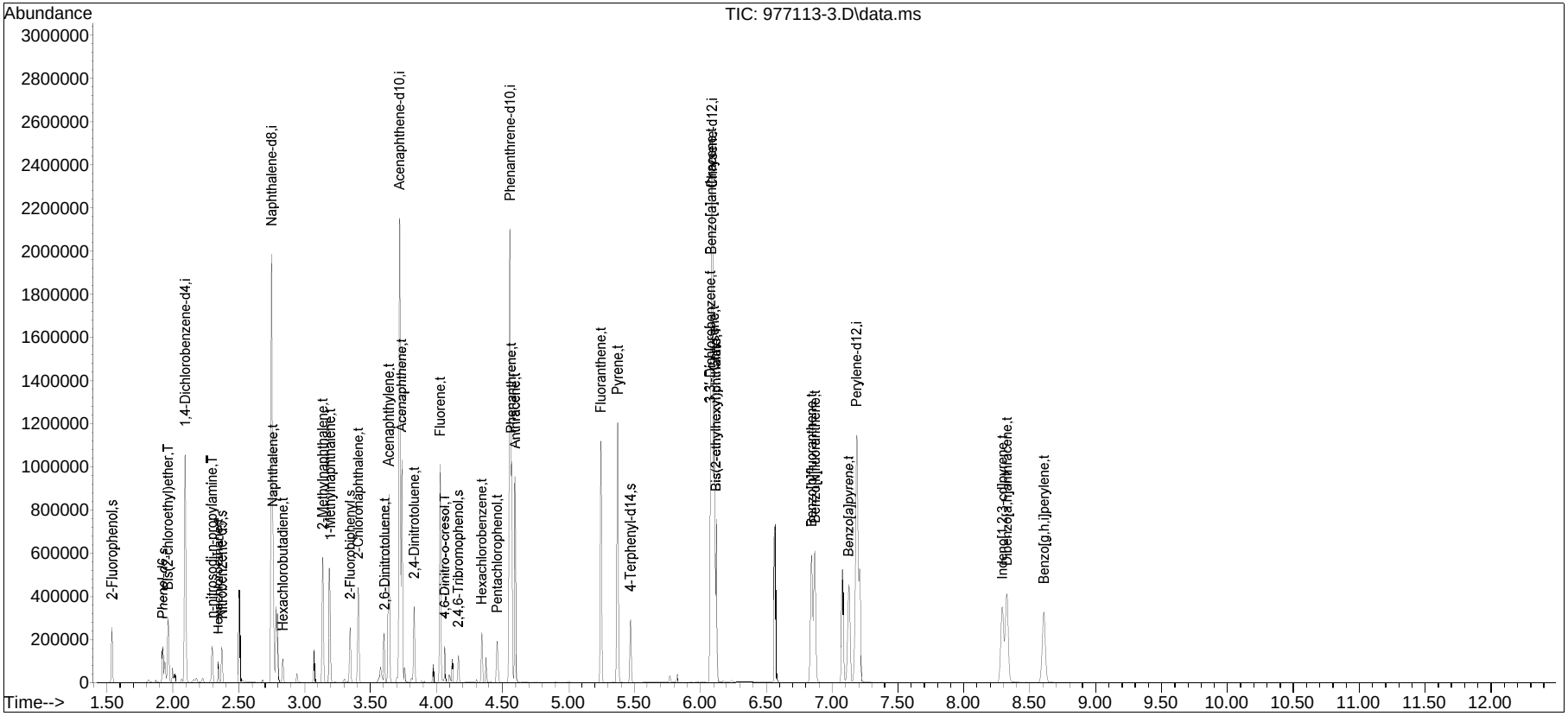
(#) = qualifier out of range (m) = manual integration (+) = signals summed

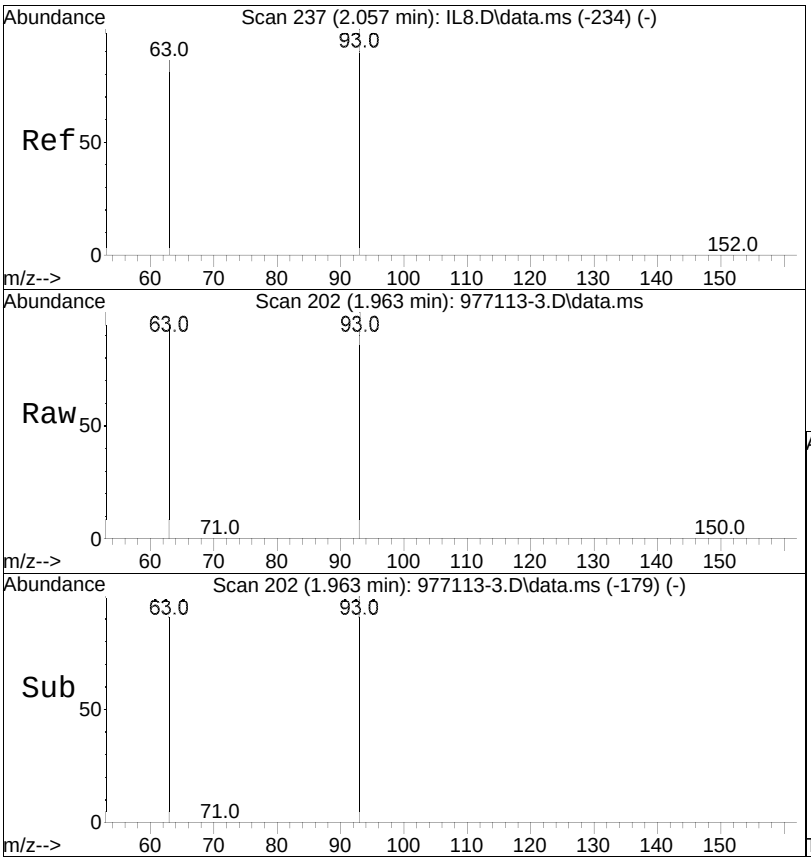
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240928RVT\
Data File : 977113-3.D
Acq On : 28 Sep 2024 03:14 pm
Operator : SV120:rp
Sample : WG1977113-3,32,,rp
Misc : WG1977599,WG1977113,ical21522
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 28 15:54:36 2024
Quant Method : I:\8270sim\sv120\240928RVT\SIM-RVT_240925_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 28 13:11:11 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0928.D•

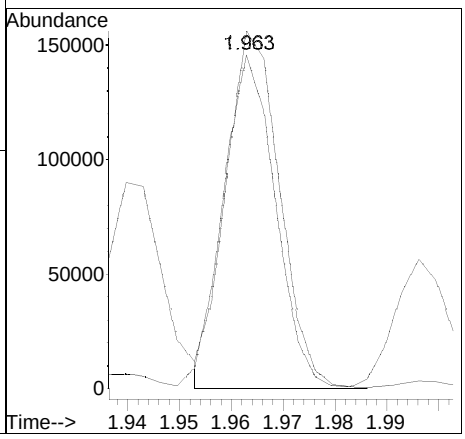


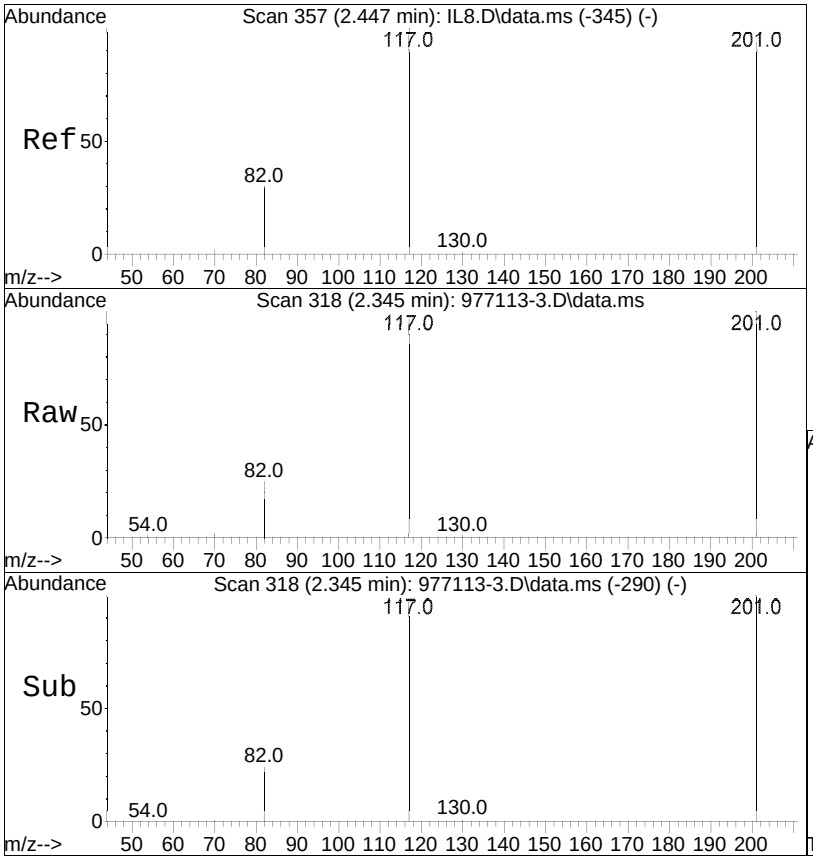


#4
Bis(2-chloroethyl)ether
Concen: 1278.53 ng/ml
RT: 1.963 min Scan# 202
Delta R.T. -0.004 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion: 93 Resp: 111920

Ion	Ratio	Lower	Upper
93	100		
63	91.4	73.0	109.4

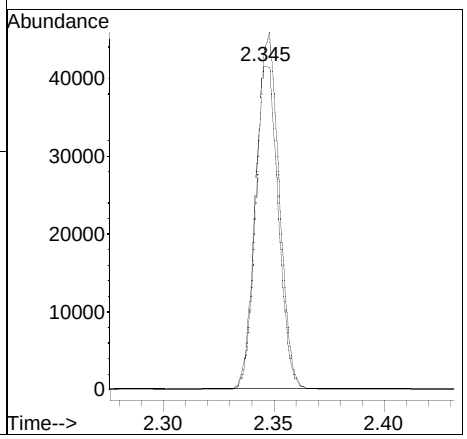


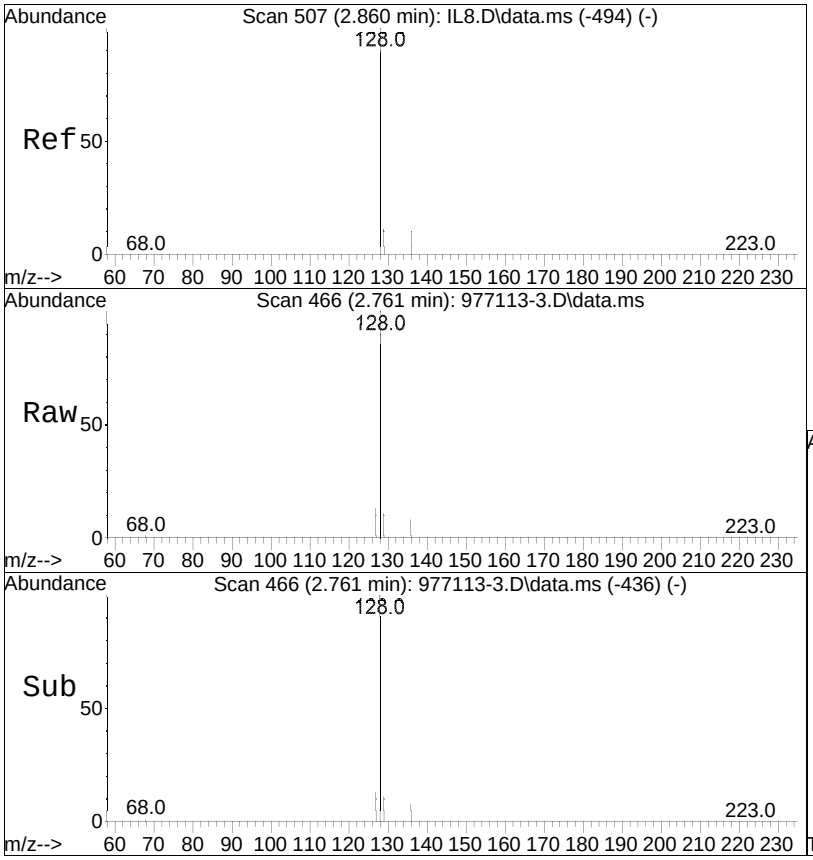


#6
Hexachloroethane
Concen: 789.71 ng/ml
RT: 2.345 min Scan# 318
Delta R.T. -0.003 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:117 Resp: 29751

Ion	Ratio	Lower	Upper
117	100		
201	107.5	86.2	129.2

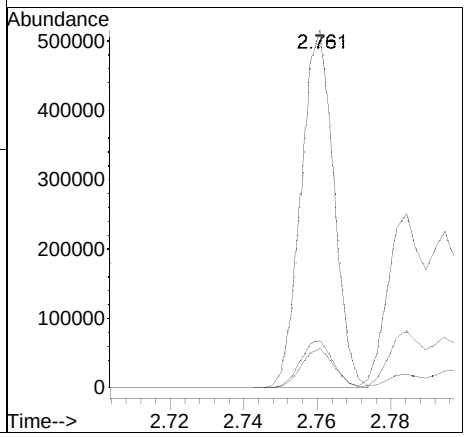


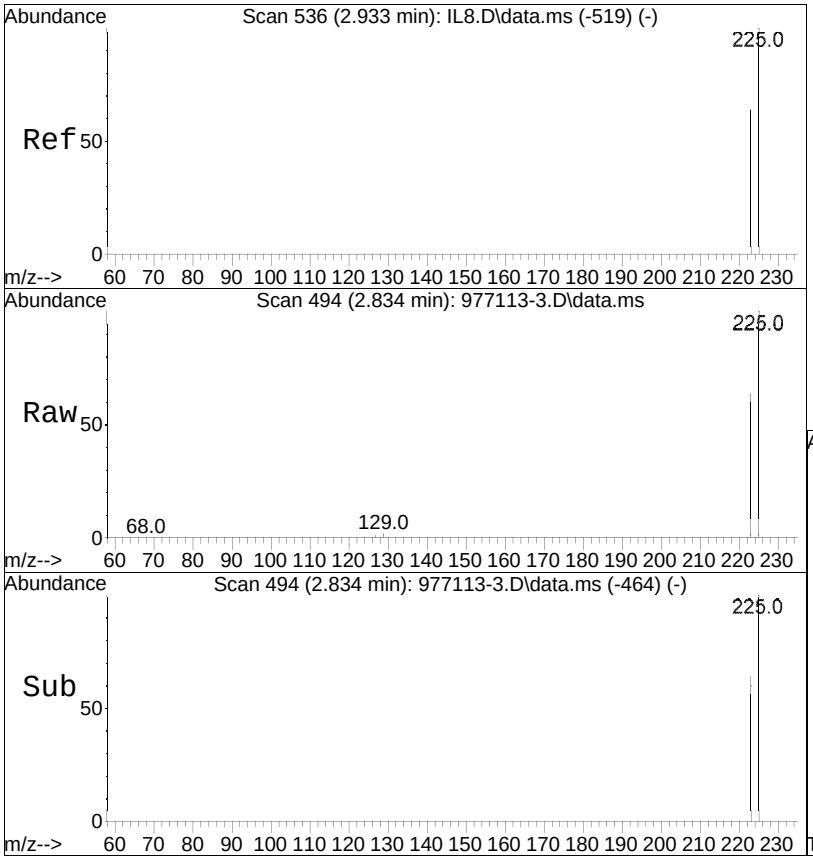


#9
Naphthalene
Concen: 1088.41 ng/ml
RT: 2.761 min Scan# 466
Delta R.T. -0.003 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:128 Resp: 317176

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.4	10.6	16.0

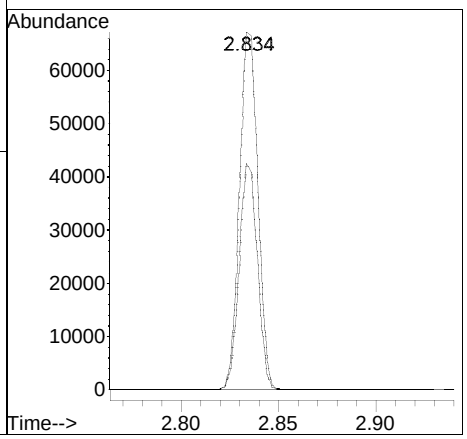


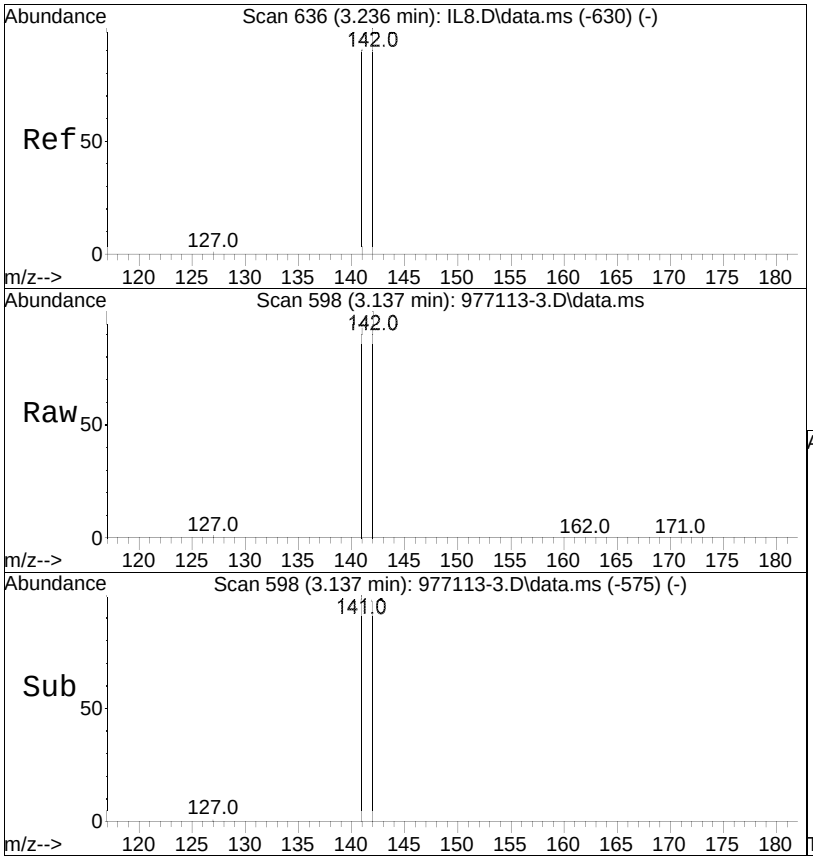


#10
Hexachlorobutadiene
Concen: 773.23 ng/ml
RT: 2.834 min Scan# 494
Delta R.T. -0.003 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:225 Resp: 43131

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.3	75.5

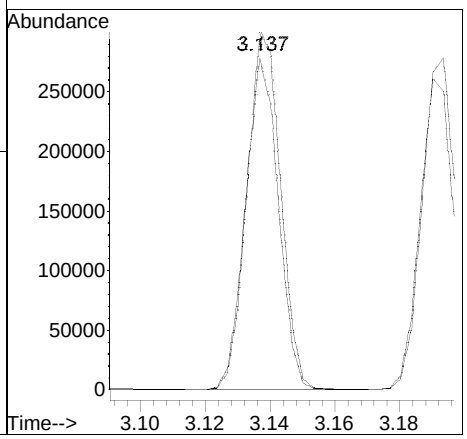


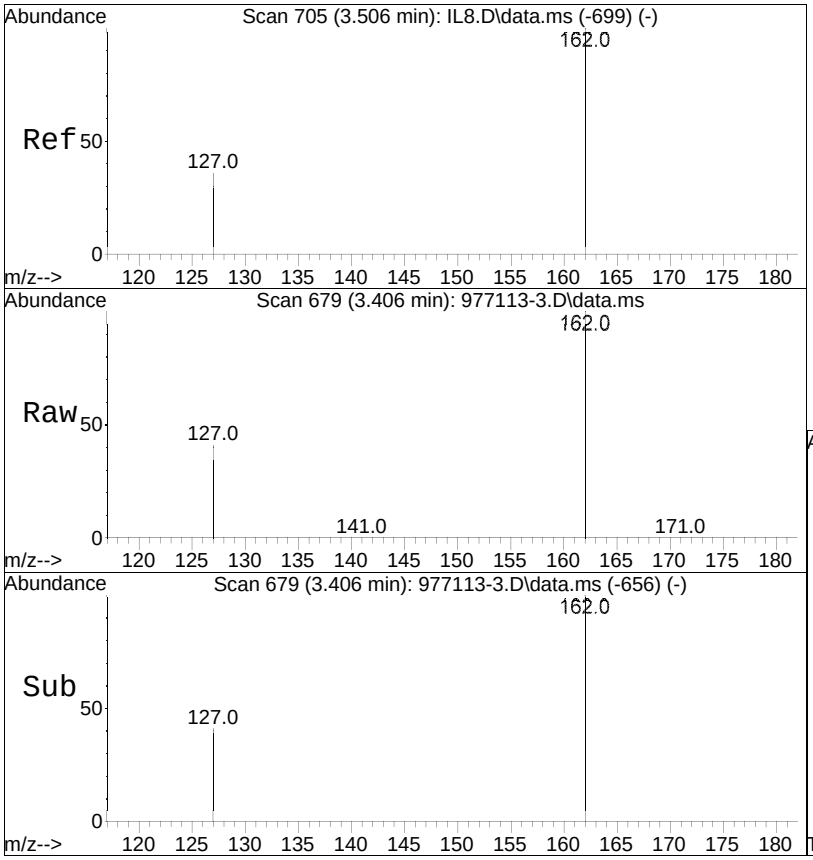


#11
2-Methylnaphthalene
Concen: 1178.40 ng/ml
RT: 3.137 min Scan# 598
Delta R.T. -0.004 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:142 Resp: 215991

Ion	Ratio	Lower	Upper
142	100		
141	90.8	73.3	109.9

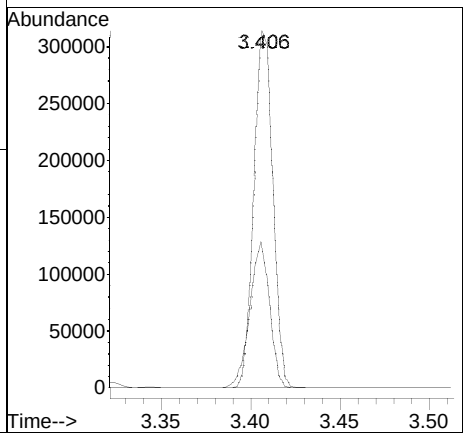


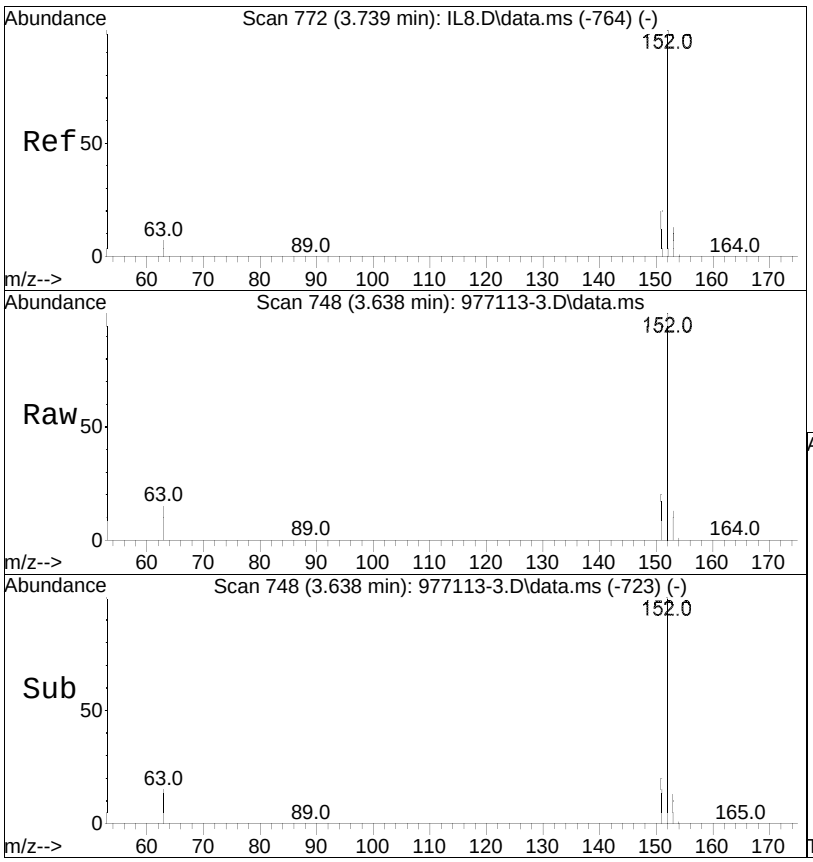


#14
2-Chloronaphthalene
Concen: 1189.12 ng/ml
RT: 3.406 min Scan# 679
Delta R.T. -0.004 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:162 Resp: 227124

Ion	Ratio	Lower	Upper
162	100		
127	42.4	30.1	45.1

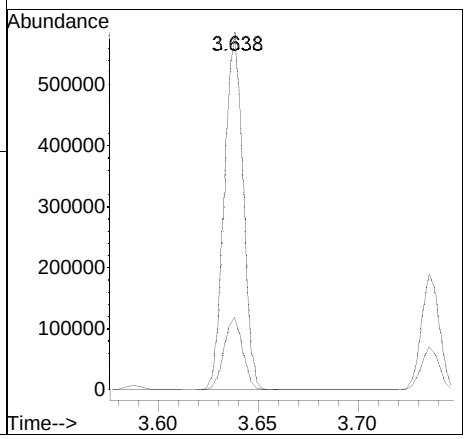


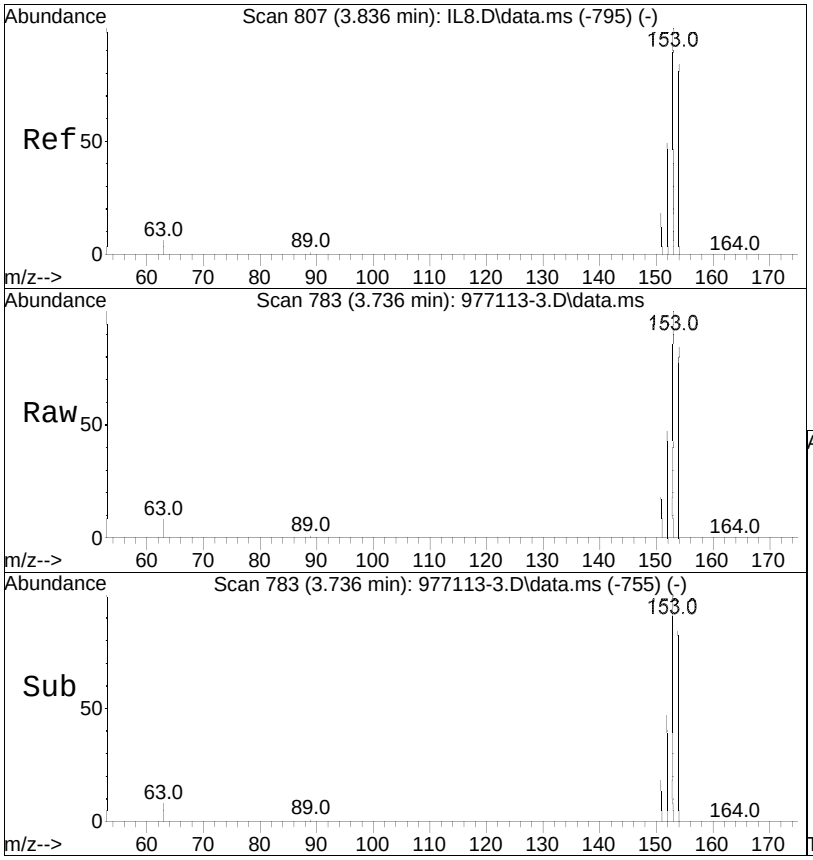


#16
Acenaphthylene
Concen: 1363.33 ng/ml
RT: 3.638 min Scan# 748
Delta R.T. -0.003 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:152 Resp: 378804

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2

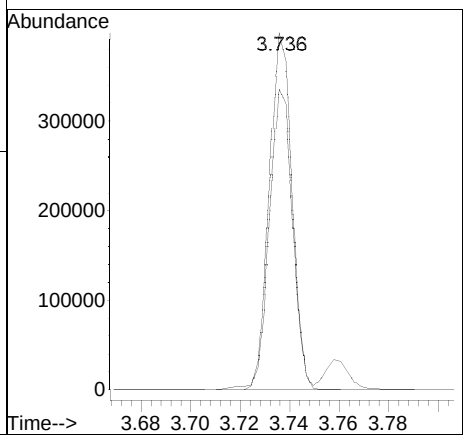


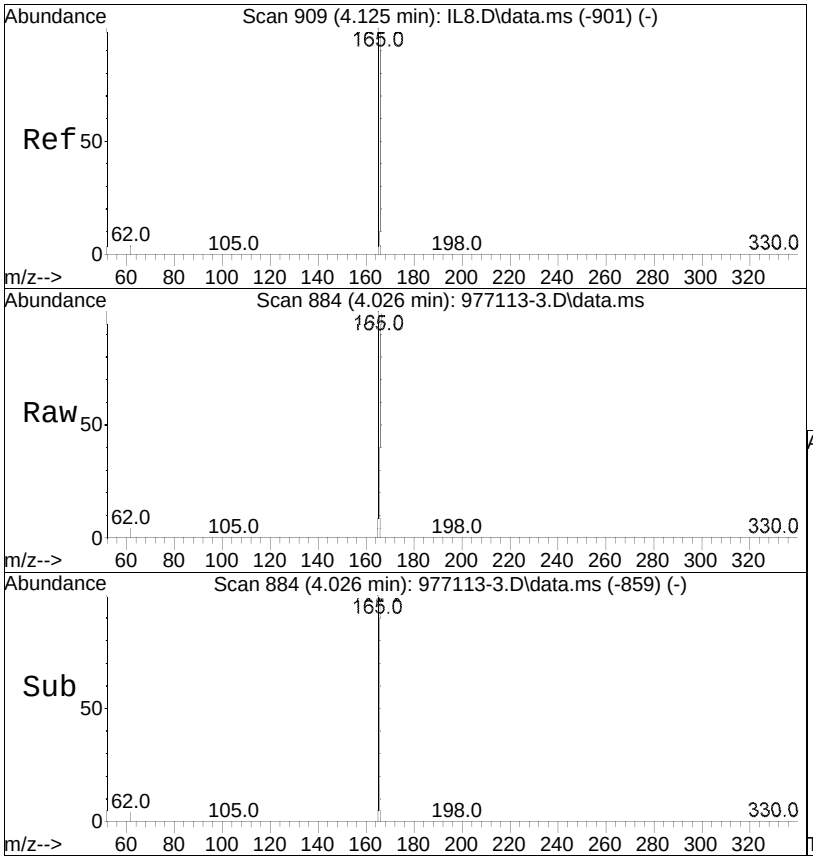


#18
Acenaphthene
Concen: 1278.44 ng/ml
RT: 3.736 min Scan# 783
Delta R.T. -0.003 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:153 Resp: 252580

Ion	Ratio	Lower	Upper
153	100		
154	86.1	69.1	103.7

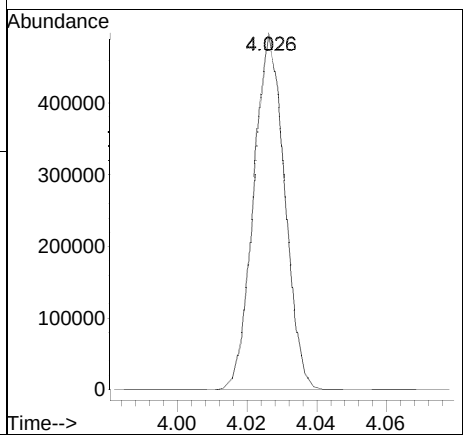


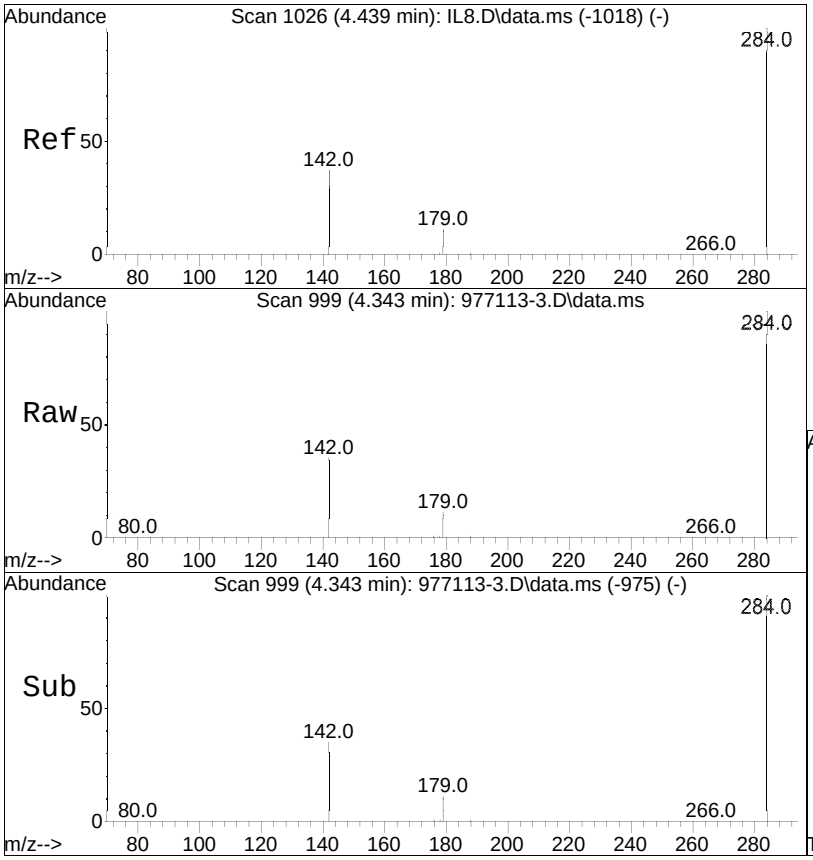


#20
Fluorene
Concen: 1395.56 ng/ml
RT: 4.026 min Scan# 884
Delta R.T. -0.003 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:166 Resp: 304534

Ion	Ratio	Lower	Upper
166	100		
165	100.9	81.4	122.2

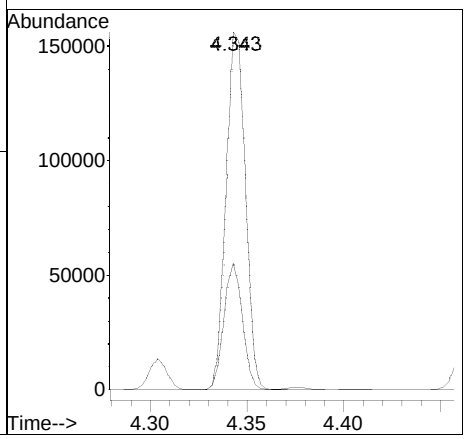


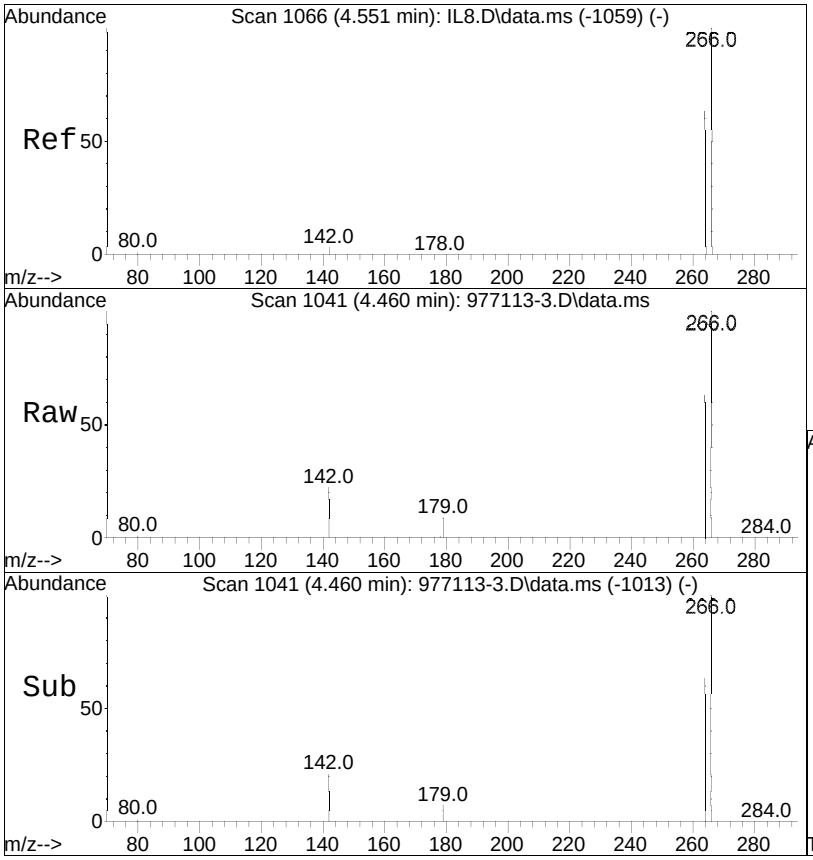


#24
Hexachlorobenzene
Concen: 1422.85 ng/ml
RT: 4.343 min Scan# 999
Delta R.T. -0.003 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:284 Resp: 106847

Ion	Ratio	Lower	Upper
284	100		
142	34.1	26.6	40.0

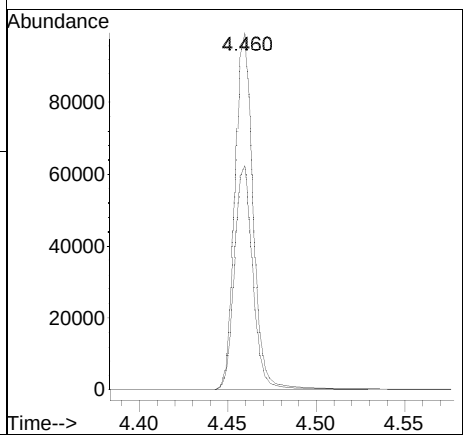


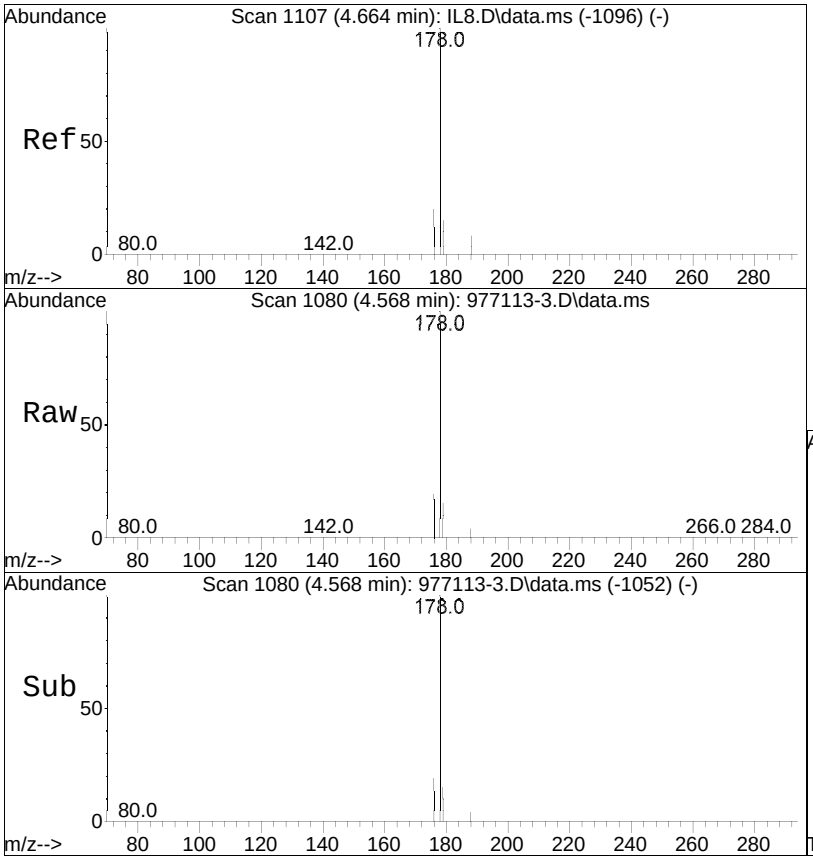


#25
Pentachlorophenol
Concen: 1736.03 ng/ml
RT: 4.460 min Scan# 1041
Delta R.T. -0.003 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:266 Resp: 71228

Ion	Ratio	Lower	Upper
266	100		
264	63.4	50.2	75.4

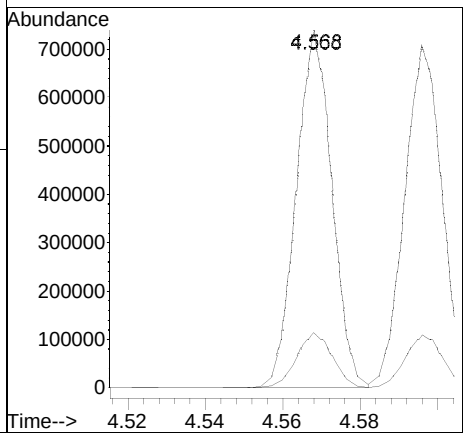


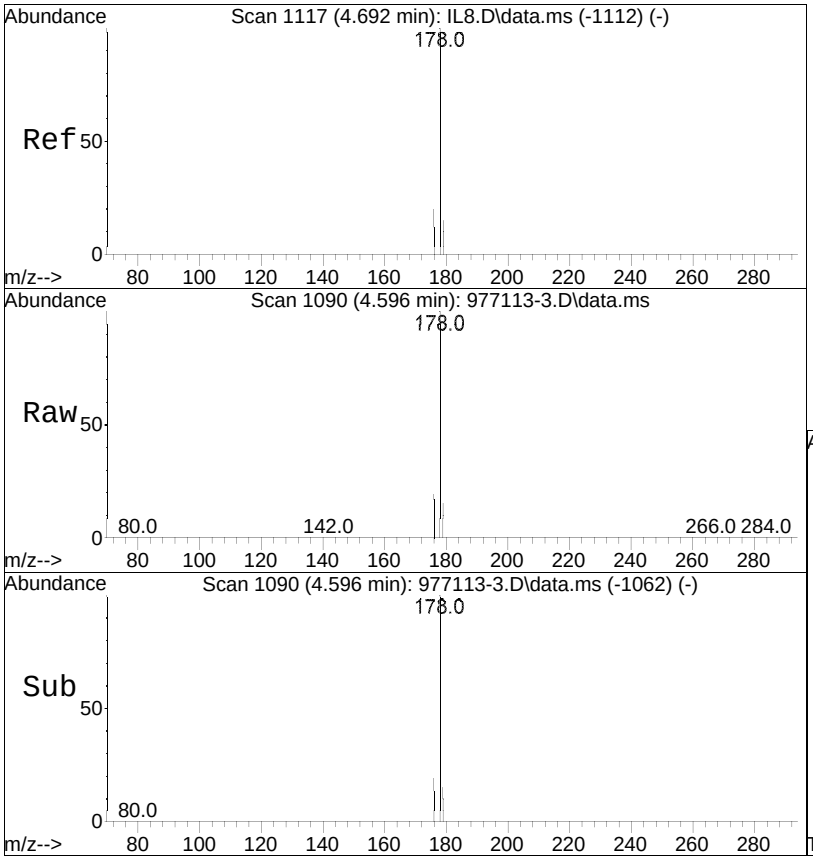


#26
Phenanthrene
Concen: 1435.03 ng/ml
RT: 4.568 min Scan# 1080
Delta R.T. -0.003 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:178 Resp: 471869

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.6	18.8

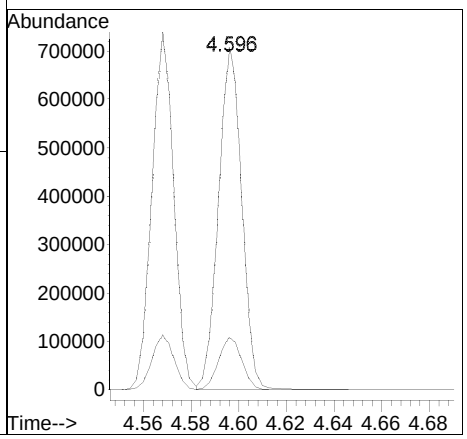


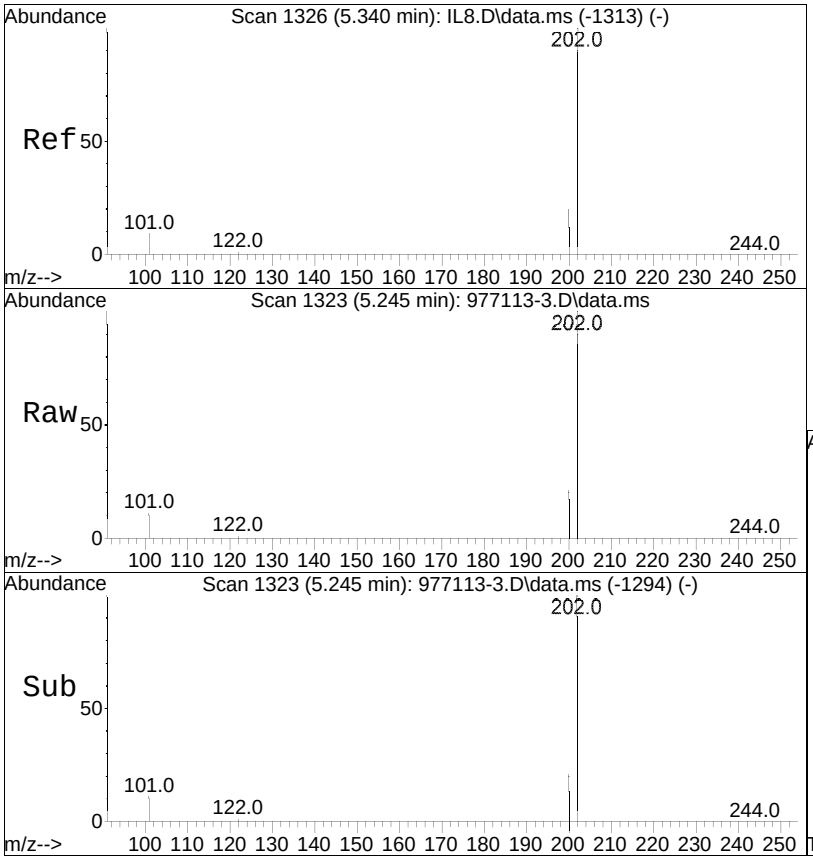


#27
Anthracene
Concen: 1484.07 ng/ml
RT: 4.596 min Scan# 1090
Delta R.T. -0.003 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:178 Resp: 478783

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

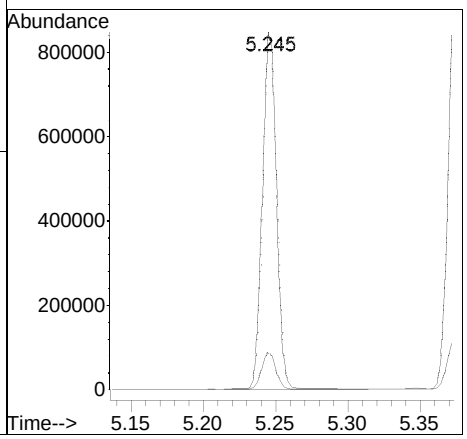


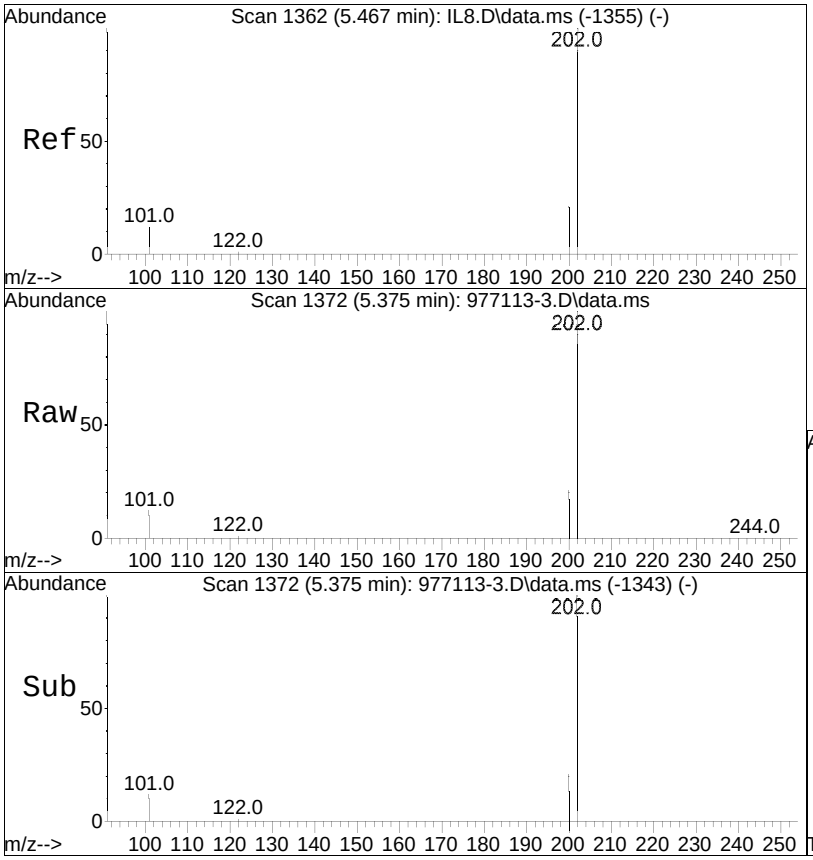


#28
Fluoranthene
Concen: 1513.41 ng/ml
RT: 5.245 min Scan# 1323
Delta R.T. -0.002 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:202 Resp: 576272

Ion	Ratio	Lower	Upper
202	100		
101	10.4	8.3	12.5

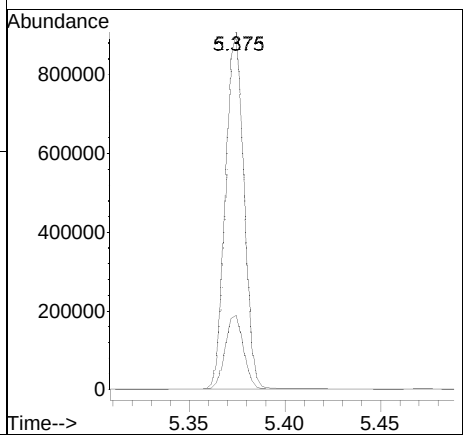


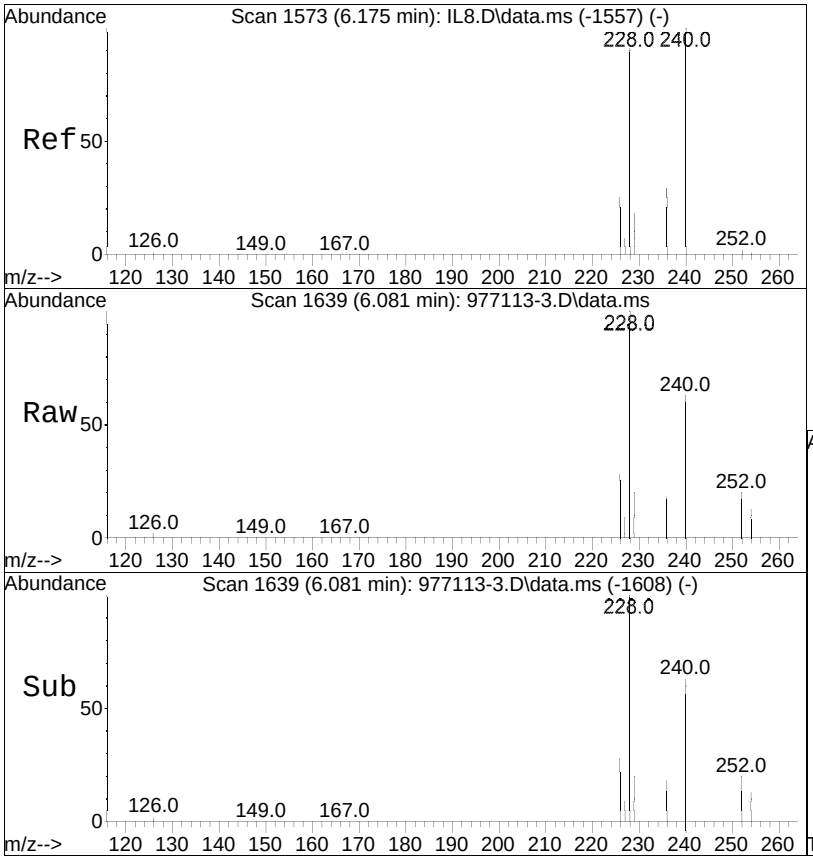


#29
Pyrene
Concen: 1486.03 ng/ml
RT: 5.375 min Scan# 1372
Delta R.T. -0.002 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:202 Resp: 598371

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3

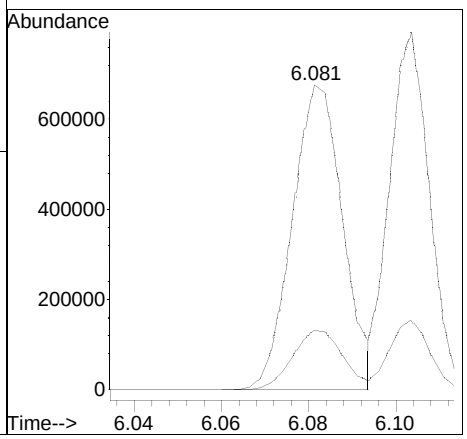


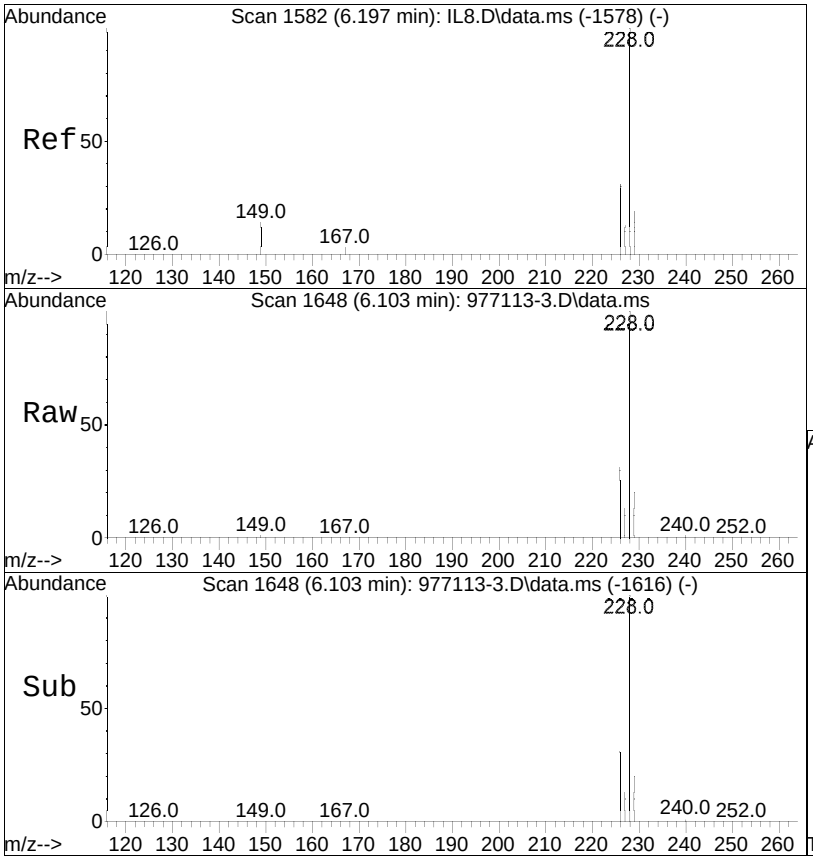


#32
Benzo[a]anthracene
Concen: 1614.70 ng/ml
RT: 6.081 min Scan# 1639
Delta R.T. -0.005 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:228 Resp: 544829

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.6	23.4

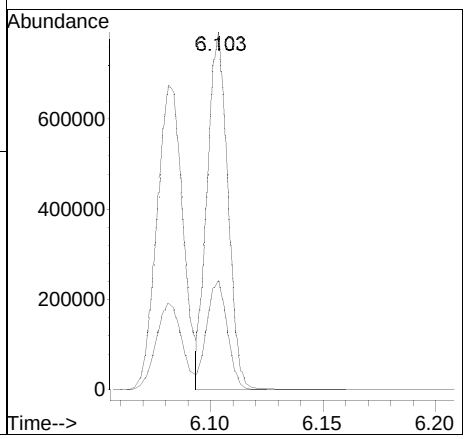


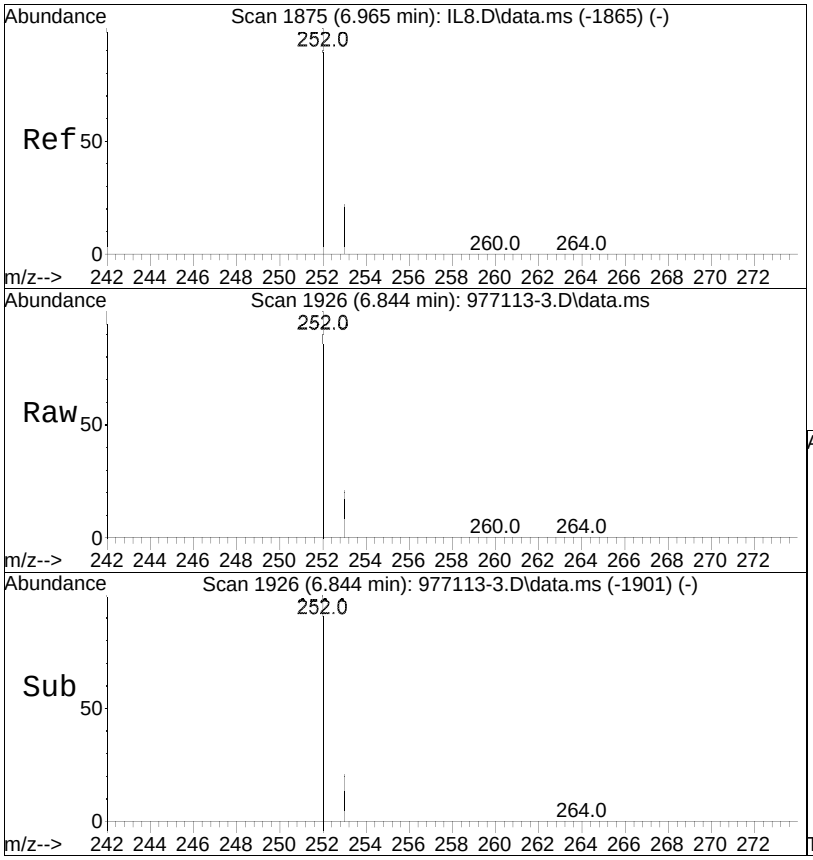


#34
Chrysene
Concen: 1571.15 ng/ml
RT: 6.103 min Scan# 1648
Delta R.T. -0.002 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:228 Resp: 501971

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	36.8

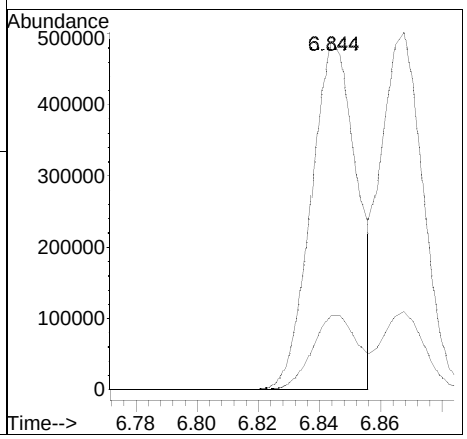


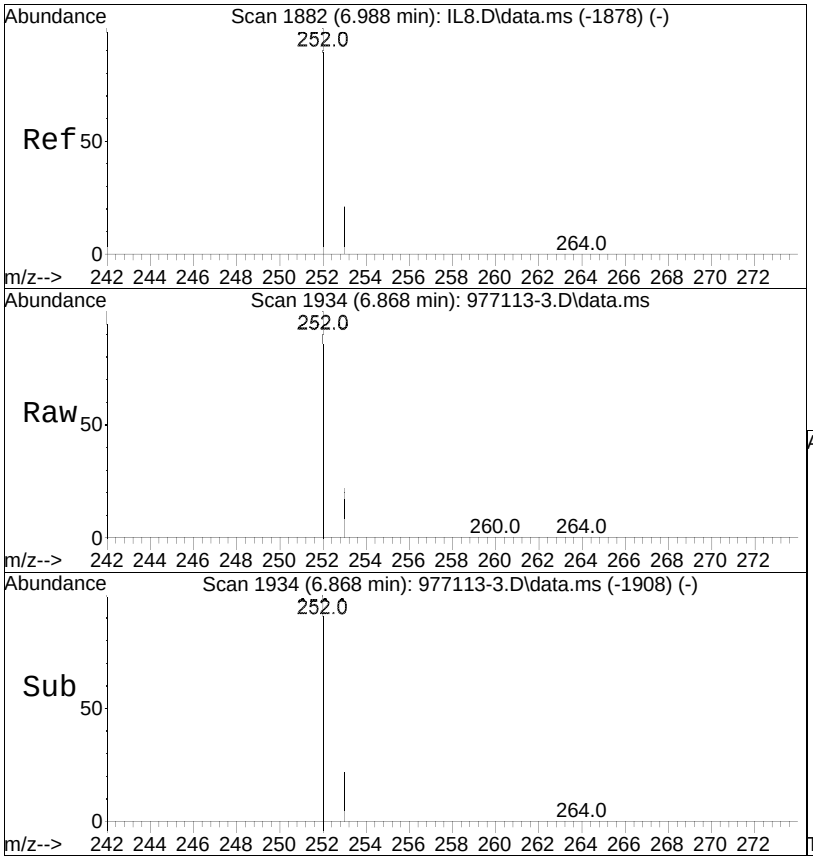


#37
Benzo[b]fluoranthene
Concen: 1725.91 ng/ml
RT: 6.844 min Scan# 1926
Delta R.T. -0.006 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:252 Resp: 510637

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.3	25.9

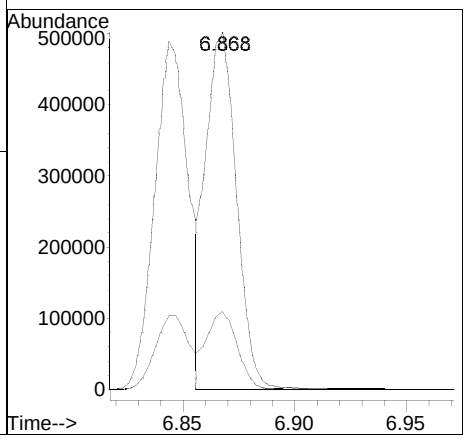


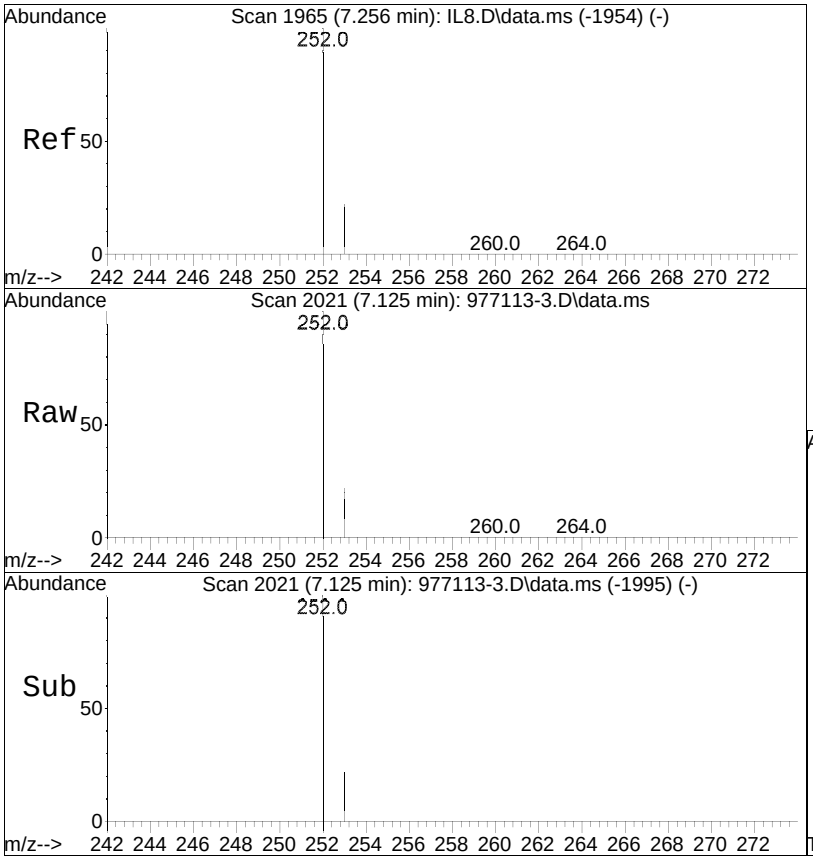


#38
Benzo[k]fluoranthene
Concen: 1637.62 ng/ml
RT: 6.868 min Scan# 1934
Delta R.T. -0.003 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:252 Resp: 475375

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3

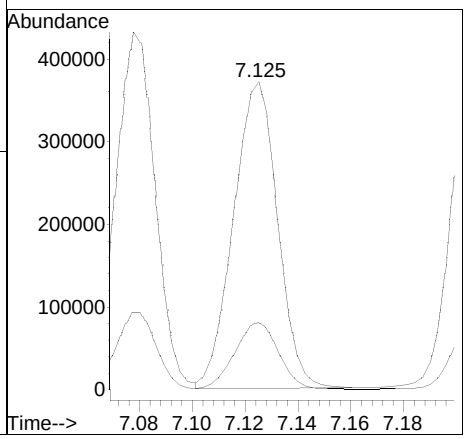


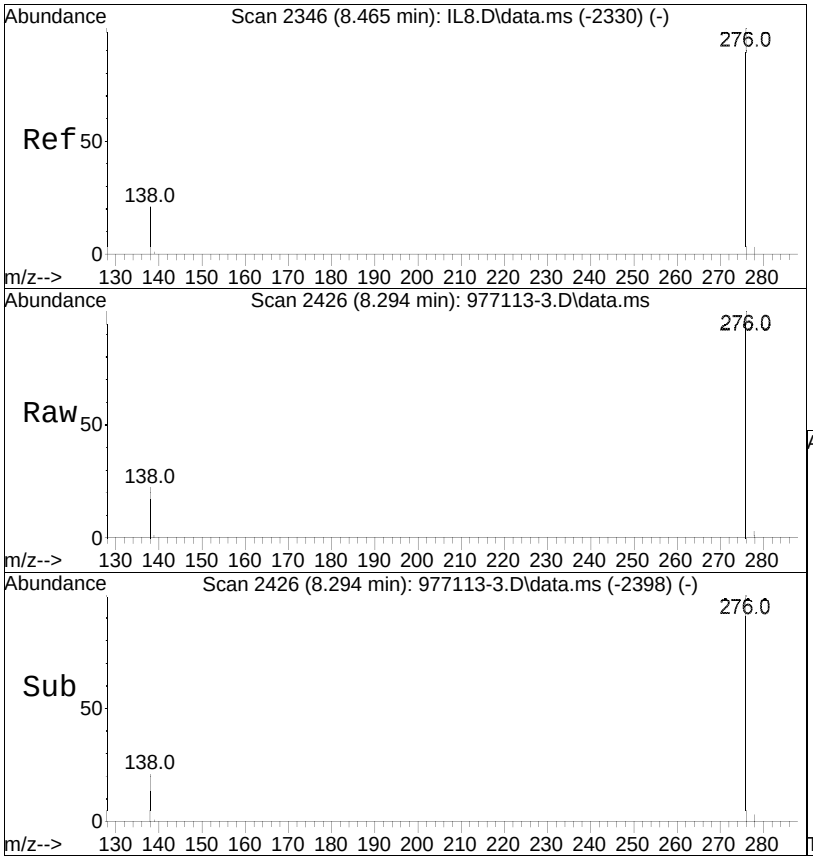


#39
Benzo[a]pyrene
Concen: 1690.70 ng/ml
RT: 7.125 min Scan# 2021
Delta R.T. -0.003 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:252 Resp: 428242

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

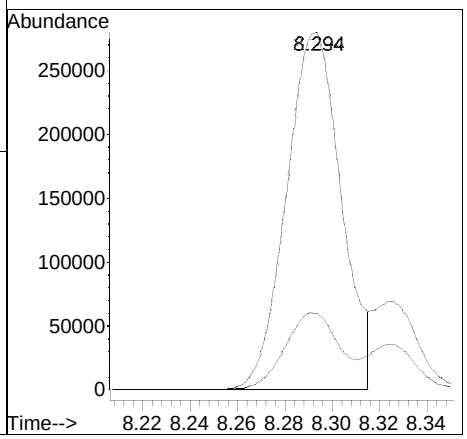


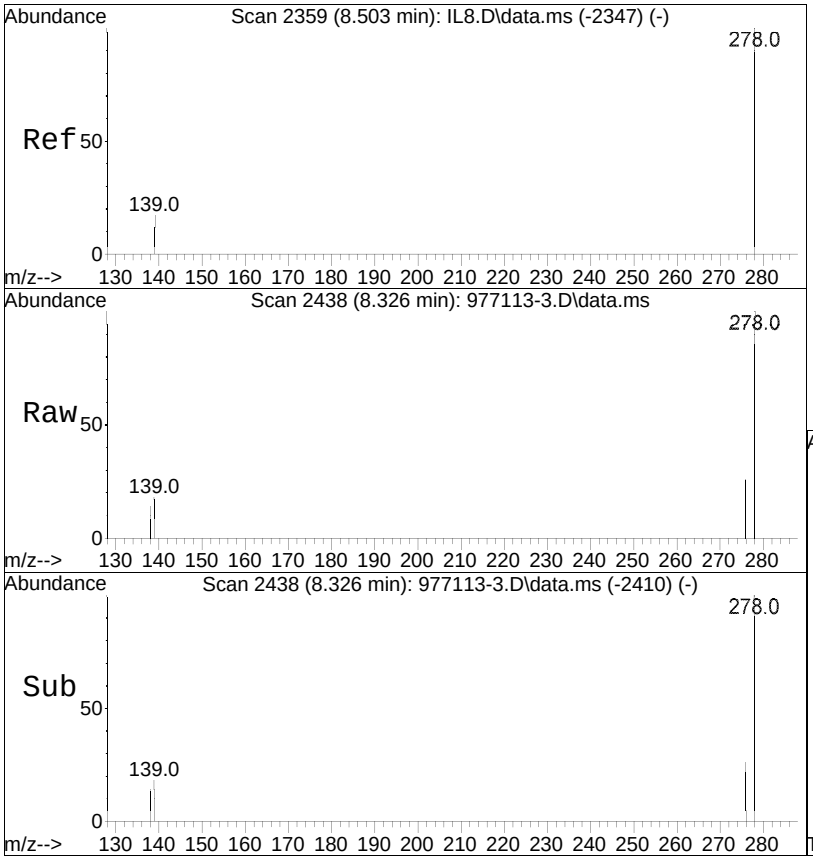


#40
Indeno[1,2,3-cd]pyrene
Concen: 1795.13 ng/ml
RT: 8.294 min Scan# 2426
Delta R.T. -0.005 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:276 Resp: 447094

Ion	Ratio	Lower	Upper
276	100		
138	21.3	16.5	24.7

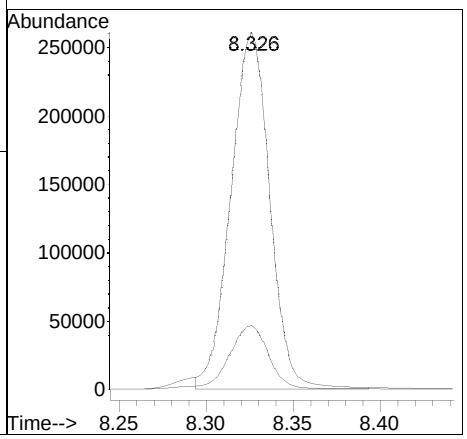


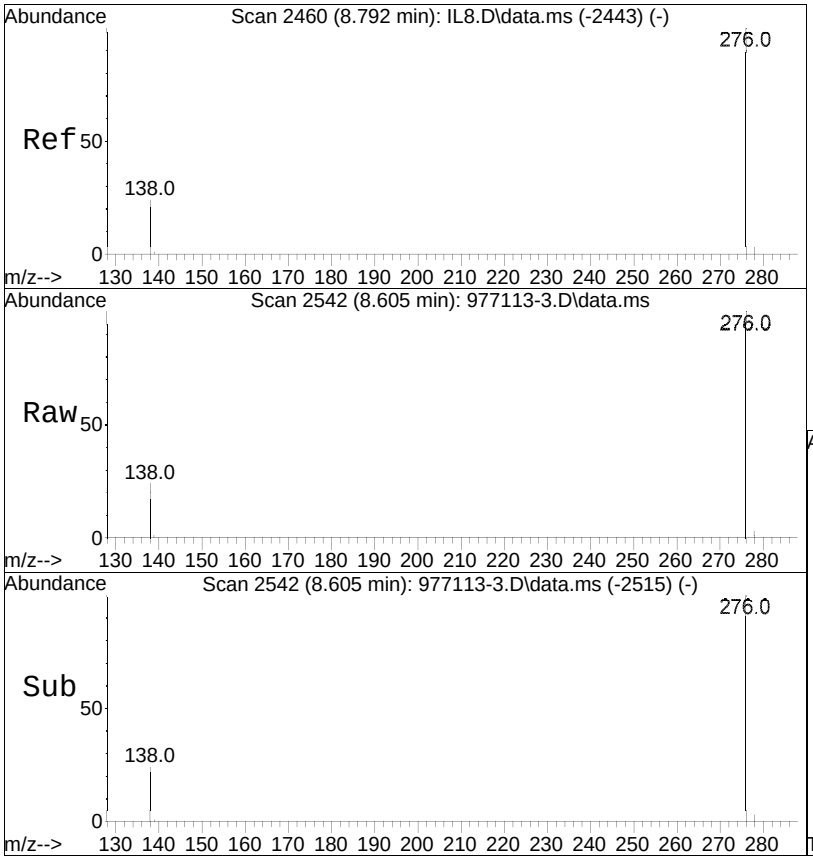


#41
Dibenzo[a,h]anthracene
Concen: 1712.78 ng/ml M6
RT: 8.326 min Scan# 2438
Delta R.T. -0.005 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:278 Resp: 403090

Ion	Ratio	Lower	Upper
278	100		
139	18.4	14.5	21.7

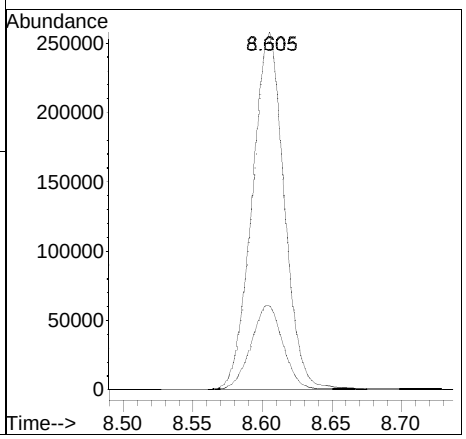




#42
Benzo[g,h,i]perylene
Concen: 1611.22 ng/ml
RT: 8.605 min Scan# 2542
Delta R.T. -0.008 min
Lab File: 977113-3.D
Acq: 28 Sep 2024 03:14 pm

Tgt Ion:276 Resp: 407151

Ion	Ratio	Lower	Upper
276	100		
138	23.9	18.6	27.8

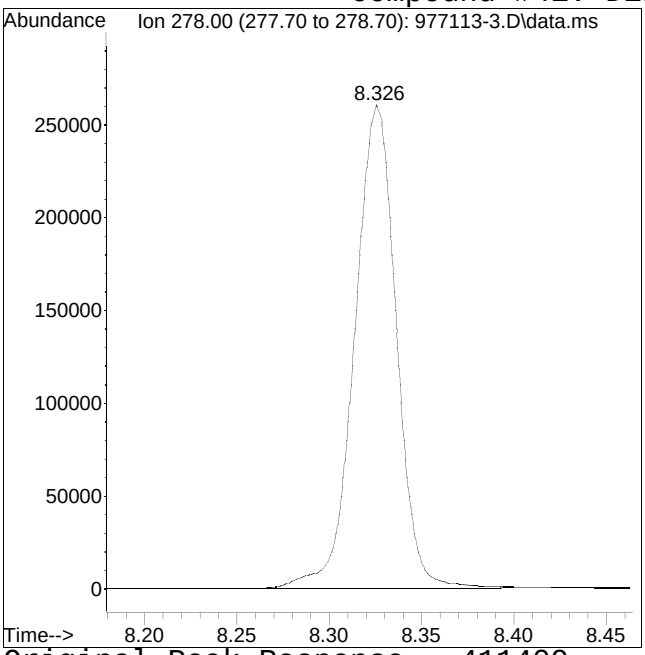


Manual Integration Report

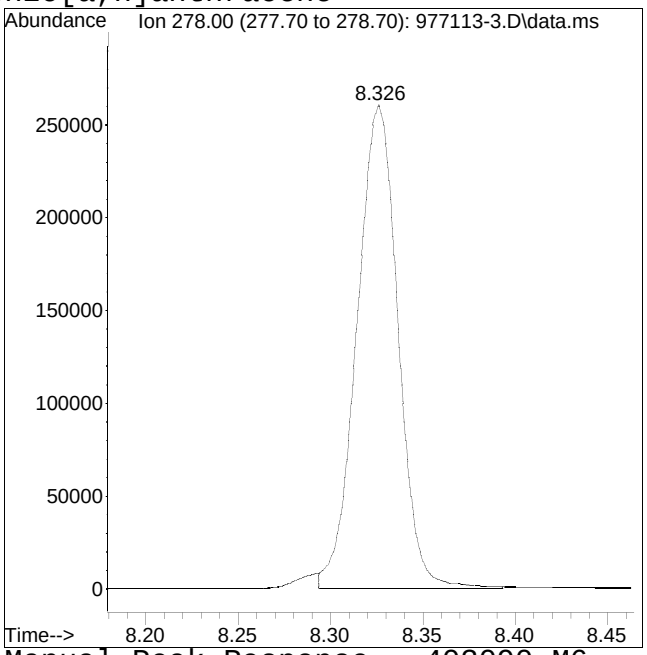
Data Path : I:\8270SIM\sv120\240928RVTQ
Data File : 977113-3.D
Date Inj'd : 9/28/2024 3:14 pm
Sample : WG1977113-3,32,,rp

Method : SIM-RVT_240925_sv120.M
Operator : SV120:rp
Instrument : SV120
Quant Date : 9/28/2024 3:27 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 411409



Manual Peak Response = 403090 M6

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

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 30 2024, 02:27 pm

Work Group: WG1977113 for Department: 2 Organic Preparation

Created: 27-SEP-24 Due: Operator: ZCH

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2454075-02	SMP-MW-08	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0926	0926	S0	Amber-A.1
L2454075-04	SMP-TW-02	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0926	0926	S0	Amber-A.1
L2454075-05	DUP20240919	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0926	0926	S0	Amber-A.1
L2454309-01	BUFFALO RO-TYPE 1	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0927	1004	NC	Amber-A.1
L2454352-01	SCDOH-DR	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0927	0927	S0	Amber-A.1
L2454412-01	CO-092024	S	NYTCL-8270-SIM-RVT	WATER	DONE	U	0927	0927	S0	Amber-A.1
L2454431-01	SMP-MW-101	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0927	0927	S0	Amber-A.1
L2454431-02	SMP-MW-06	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0927	0927	S0	Amber-A.1
L2454431-03	SMP-MW-07	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0927	0927	S0	Amber-A.1
L2455855-01	PWS-PE-RAW-IMMEDPOST-240927	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1004	0928	1A	Amber-A.1
L2455855-02	PWS-PE-RAW-12HRPRE-240926	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1003	0928	1A	Amber-A.1
WG1977113-1	Laboratory Method Bl	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1977113-2	Laboratory Control S	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1977113-3	LCS Duplicate	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				

Comments:

WG1977113-3 WG1977113-2

Analysis log File

Total Files Reported in Log : 13
Log Generated From Directory: I:\8270SIM\sv120\240925RVTical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	IL10.D	fast-SIM-RVT	IL10,32,,5000.0ng/mL lo	WG1976347	9/25/2024 12:46 am
2	TUNE.D	DFTPPRVT.M	TUNE Lot#11037	WG1976347	9/25/2024 12:30 am
3	IL9.D	fast-SIM-RVT	IL9,32,,2500.0ng/mL lot	WG1976347	9/25/2024 1:03 am
4	IL8.D	fast-SIM-RVT	IL8,32,,1000.0ng/mL lot	WG1976347	9/25/2024 1:19 am
5	IL7.D	fast-SIM-RVT	IL7,32,,500.0ng/mL lot#	WG1976347	9/25/2024 1:35 am
6	IL6.D	fast-SIM-RVT	IL6,32,,100.0ng/mL lot#	WG1976347	9/25/2024 1:52 am
7	IL5.D	fast-SIM-RVT	IL5,32,,40.0ng/mL lot#	WG1976347	9/25/2024 2:11 am
8	IL4.D	fast-SIM-RVT	IL4,32,,10.0ng/mL lot#1	WG1976347	9/25/2024 2:29 am
9	IL3.D	fast-SIM-RVT	IL3,32,,5.0ng/mL lot# 1	WG1976347	9/25/2024 2:45 am
10	IL2.D	fast-SIM-RVT	IL2,32,,2.0ng/mL lot# 1	WG1976347	9/25/2024 3:02 am
11	IL1.D	fast-SIM-RVT	IL1,32,,1.0ng/mL lot# 1	WG1976347	9/25/2024 3:18 am
12	ICV.D	fast-SIM-RVT	CQICV,32,,1000.0ng/mL l	WG1976347	9/25/2024 3:35 am
13	insblk.D	fast-SIM-RVT	instrument blank	WG1976347	9/25/2024 3:51 am

Dep.: GCMS
Inst: SV120
Date: **09/28/24**
Run:

Method
GC: SIM RVT

Seq: WG1977599
ICAL: 21522

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
48	deg0928	wg-1,32,, dftpp SV120 lot#11040				09/28 RAP
49	ccv0928	wg-3,32,,ICV 10884 (0921)	Indeno high			09/28 RAP
50	blk0928	instrument Blank				
1	977409-1	WG1977409-1,32,,rp				09/28 RAP
2	977409-2	WG1977409-2,32,,rp				09/28 RAP
3	977409-3	WG1977409-3,32,,rp				09/28 RAP
4	56171-01	L2456171-01,32,,R1A,rp				09/28 RAP
5	56172-01	L2456172-01,32,,R1A,rp	RX - 1 acid < 10%		sv rmp	09/28 RAP
6	977113-2	WG1977113-2,32,,rp				09/28 RAP
7	977113-3	WG1977113-3,32,,rp				09/28 RAP
8	977113-1	WG1977113-1,32,,rp				09/28 RAP
9	55855-01	L2455855-01,32,,R1A,rp				09/28 RAP
10	55855-02	L2455855-02,32,,R1A,rp				09/28 RAP
11	5850-01	L2455850-01,32,,R1A,rp	RX - 1 acid < 10%			09/28 RAP
12	55850-01	L2455850-01RE,32,,R1A,RE,rp			sv mtc	09/28 RAP
13	54075-02	L2454075-02,32,,rp				09/30 JJW
14	54075-04	L2454075-04,32,,rp				09/30 JJW
15	54075-05	L2454075-05,32,,rp				09/30 JJW
16	977406-2	WG1977406-2,32,,rp				09/30 JJW
17	977406-3	WG1977406-3,32,,rp				09/30 JJW
18	977406-1	WG1977406-1,32,,rp				09/30 JJW
19	53729-08	L2453729-08,32,,RE,rp				
20	3729-08	L2453729-08,32,,RV,rp				
21	54406-01	L2454406-01,32,,RE,rp				09/30 JJW
22	4406-01	L2454406-01,32,,rp				09/30 JJW
23	54442-05	L2454442-05,32,,RR,rp				09/30 JJW
24	54442-06	L2454442-06,32,,RR,rp				09/30 JJW
25	54352-01	L2454352-01,32,,rp				09/30 JJW
26	54402-01	L2454402-01,32,,rp				09/30 JJW
27	54402-02	L2454402-02,32,,rp				09/30 JJW
28	54402-03	L2454402-03,32,,rp				09/30 JJW
29	54402-05	L2454402-05,32,,rp	RX - FB hit 2 sets			09/30 JJW
30	976783-2	WG1976783-2,32,,rp				09/30 JJW
31	976783-3	WG1976783-3,32,,rp				09/30 JJW
32	976783-1	WG1976783-1,32,,rp				09/30 JJW
33	53915-02	L2453915-02,32,,rp				09/30 JJW
34	54087-01	L2454087-01,32,,rp				09/30 JJW
35	976910-2	WG1976910-2,32,,rp				
36	976910-3	WG1976910-3,32,,rp				
37	976910-1	WG1976910-1,32,,rp				
38	53990-01	L2453990-01,32,,rp				
39	53990-02	L2453990-02,32,,rp				
40	53990-03	L2453990-03,32,,rp			RAP	
					SV-JJW	

Dep.: GCMS
Inst: SV120
Date: **09/28/24**
Run:

Method
GC: SIM RVT

Seq: WG1977599
ICAL: 21522

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials

ORGANIC ELN REPORT

Workgroup: WG1977113

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ089
Surrogate Type: ABN **Lot #:** 11001ay,03/11/2025,4r,6,1
Spike Type: ABN-SIM **Lot #:** 10948af,02/03/2025, 10949ai,02
Spike Verify by: ZCH / LJO/JJM
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A091124
Na2SO4	23K2961078
NaOH	10NNaOH082824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: ej089

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2454075-02 SAMP	09/27/24 17:24	Luke O'Donnell	100	<2,>12	.1		09/27/24 19:35	Victor Kono	1	K
L2454075-04 SAMP	09/27/24 17:24	Luke O'Donnell	100	<2,>12	.1		09/27/24 19:35	Victor Kono	1	K
L2454075-05 SAMP	09/27/24 17:24	Luke O'Donnell	100	<2,>12	.1		09/27/24 19:35	Victor Kono	1	K
L2454309-01 SAMP	09/27/24 08:54	Zachary Helin	100	<2, >12	.1		09/27/24 16:14	Victor Kono	1	K
L2454352-01 SAMP	09/27/24 08:54	Zachary Helin	100	<2, >12	.1		09/27/24 16:14	Victor Kono	1	K
L2454412-01 SAMP	09/27/24 08:54	Zachary Helin	100	<2, >12	.1		09/27/24 16:14	Victor Kono	1	K

Reported: 30-SEP-24 02:27 PM

ORGANIC ELN REPORT

Workgroup: WG1977113

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2454431-01 SAMP	09/27/24 08:54	Zachary Helin	100	<2, >12	.1		09/27/24 16:14	Victor Kono	1	K
L2454431-02 SAMP	09/27/24 08:54	Zachary Helin	100	<2, >12	.1		09/27/24 16:14	Victor Kono	1	K
L2454431-03 SAMP	09/27/24 08:54	Zachary Helin	100	<2, >12	.1		09/27/24 16:15	Victor Kono	1	K
L2455850-01 SAMP	09/27/24 17:24	Luke O'Donnell	100	<2,>12	.1		09/27/24 19:35	Victor Kono	1	K
L2455855-01 SAMP	09/27/24 17:24	Luke O'Donnell	100	<2,>12	.1		09/27/24 19:35	Victor Kono	1	K
L2455855-02 SAMP	09/27/24 17:24	Luke O'Donnell	100	<2,>12	.1		09/27/24 19:35	Victor Kono	1	K
WG1977113-1 BLANK	09/27/24 08:46	Zachary Helin	100	<2, >12	.1		09/27/24 16:14	Victor Kono	1	K
	WG1977115, WG1977144									
WG1977113-2 LCS	09/27/24 08:46	Zachary Helin	100	<2, >12	.1	.1	09/27/24 16:14	Victor Kono	1	K
WG1977113-3 LCSD	09/27/24 08:46	Zachary Helin	100	<2, >12	.1	.1	09/27/24 16:14	Victor Kono	1	K

Reported: 30-SEP-24 02:27 PM

GC Extractable Analysis
Herbicides

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

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

Lab Number: L2454352
Project Number: 2232.0006Y005
Matrix: Water

GC Column 1: STX-CLP1
GC Column 2: STX-CLP2

CLIENT ID (LAB SAMPLE NO.)	1 %REC	2 %REC	1 %REC	2 %REC	OTHER (1)	OTHER (2)	TOT OUT
SCDOH-DR (L2454352-01)	88	81	--	--			0
WG1976959-1BLANK	85	79	--	--			0
WG1976959-2LCS	86	92	--	--			0
WG1976959-3LCSD	88	93	--	--			0

QC LIMITS
(30-150) S1 = DCAA

*** Values outside of QC limits**

FORM II HERB-8151

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1976959-2 **Analysis Date** : 09/27/24 14:56	**File ID**	: 22240926a-101
LCSD Sample ID	: WG1976959-3 **Analysis Date** : 09/27/24 15:15	**File ID**	: 22240926a-102

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
MCPP	500	549	110	500	575	115	4	30-150	25
MCPA	500	475	95	500	490	98	3	30-150	25
Dalapon	5	3.43	69	5	3.64	73	6	30-150	25
Dicamba	5	4.56	91	5	4.65	93	2	30-150	25
Dichloroprop	5	4.41	88	5	4.51	90	2	30-150	25
2,4-D	5	4.42	88	5	4.56	91	3	30-150	25
2,4-DB	5	4.86	97	5	5.04	101	4	30-150	25
2,4,5-T	5	4.55	91	5	4.68	94	3	30-150	25
2,4,5-TP (Silvex)	5	4.35	87	5	4.51	90	3	30-150	25
Dinoseb	5	3.48	70	5	3.76	75	7	30-150	25

Method Blank Summary
Form 4
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1976959-1	**Lab File ID**	: 22240926a-100
Matrix	: WATER	**Extraction Date**	: 09/27/24
Analysis Date (1)	: 09/27/24 14:37	**Analysis Date (2)**	: 09/27/24 14:37
Instrument ID (1)	: PEST22	**Instrument ID (2)**	: PEST22

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1976959-2LCS	WG1976959-2	09/27/24 14:56	09/27/24 14:56
WG1976959-3LCSD	WG1976959-3	09/27/24 15:15	09/27/24 15:15
SCDOH-DR	L2454352-01	09/28/24 12:29	09/28/24 12:29

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST22	**Initial Calib. Date(s)**	: 09/20/24 09/20/24

Client ID	Lab ID	Date/Time Analyzed
Herbicides L1	R1879093-1	09/20/24 11:42
Herbicides L2	R1879093-2	09/20/24 12:01
Herbicides L3	R1879093-3	09/20/24 12:20
Herbicides L4	R1879093-4	09/20/24 12:38
Herbicides L5	R1879093-5	09/20/24 12:57
Herbicides L6	R1879093-6	09/20/24 13:15
R1879093-7 ICV	R1879093-7	09/20/24 13:34
WG1976540-8 CCAL	WG1976540-8	09/27/24 12:43
WG1976959-1 BLANK	WG1976959-1	09/27/24 14:37
WG1976959-2 LCS	WG1976959-2	09/27/24 14:56
WG1976959-3 LCSD	WG1976959-3	09/27/24 15:15
WG1977565-1 CCAL	WG1977565-1	09/28/24 10:27
SCDOH-DR	L2454352-01	09/28/24 12:29

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14024-1
Page: 1

Herbicides -EPA 8151A Long List (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
MCPP	93-65-2	500	58.5	ug/l	30-150	25	30-150	25	25			
MCPA	94-74-6	500	63.2	ug/l	30-150	25	30-150	25	25			
Dalapon	75-99-0	20	0.81	ug/l	30-150	25	30-150	25	25			
Dicamba	1918-00-9	1	0.243	ug/l	30-150	25	30-150	25	25			
Dichloroprop	120-36-5	10	0.564	ug/l	30-150	25	30-150	25	25			
2,4-D	94-75-7	10	0.498	ug/l	30-150	25	30-150	25	25			
2,4-DB	94-82-6	10	0.729	ug/l	30-150	25	30-150	25	25			
2,4,5-T	93-76-5	2	0.531	ug/l	30-150	25	30-150	25	25			
2,4,5-TP (Silvex)	93-72-1	2	0.539	ug/l	30-150	25	30-150	25	25			
Dinoseb	88-85-7	5	0.573	ug/l	30-150	25	30-150	25	25			
DCAA	*19719-28-9*									*30-150*		

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

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

Herbicides -EPA 8151A Long List (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
MCPP	93-65-2	3.33	1.04895	mg/kg	30-150	30	30-150	30	30			
MCPA	94-74-6	3.33	0.94239	mg/kg	30-150	30	30-150	30	30			
Dalapon	75-99-0	0.0333	0.0108891	mg/kg	30-150	30	30-150	30	30			
Dicamba	1918-00-9	0.0333	0.0055944	mg/kg	30-150	30	30-150	30	30			
Dichloroprop	120-36-5	0.0333	0.0095571	mg/kg	30-150	30	30-150	30	30			
2,4-D	94-75-7	0.1665	0.0104895	mg/kg	30-150	30	30-150	30	30			
2,4-DB	94-82-6	0.1665	0.0085581	mg/kg	30-150	30	30-150	30	30			
2,4,5-T	93-76-5	0.1665	0.0051615	mg/kg	30-150	30	30-150	30	30			
2,4,5-TP (Silvex)	93-72-1	0.1665	0.0044289	mg/kg	30-150	30	30-150	30	30			
DCAA	*19719-28-9*									*30-150*		

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

Herbicide Sample Data

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/28/24 12:29
Sample Matrix	: WATER	**Date Extracted**	: 09/27/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240928a-05	**Analyst**	: MMG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976959-1	**Date Collected**	: NA
Client ID	: WG1976959-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/27/24 14:37
Sample Matrix	: WATER	**Date Extracted**	: 09/27/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240926a-100	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240928a\
Data File : 22240928a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Sep 2024 12:29
Operator : pest22:mmg
Sample : L2454352-01,42,,
Misc : wg1977565,WG1976959,ical21511
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 29 08:58:46 2024
Quant Method : I:\PEST\Pest22\2024\240928a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240928a\22240928a-01.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.437	8.436	1365.6E6	1808.1E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1319550556				Recovery = 103.49%		
	Standard Area 1 : #2 = 1708587920				Recovery = 105.83%		
System Monitoring Compounds							
3) s	DCAA (surrog	6.893	7.362	444.6E6	555.0E6	0.442M3	0.405M3
	Spiked Amount	0.500	Range 30 - 150		Recovery =	88.40%	81.00%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

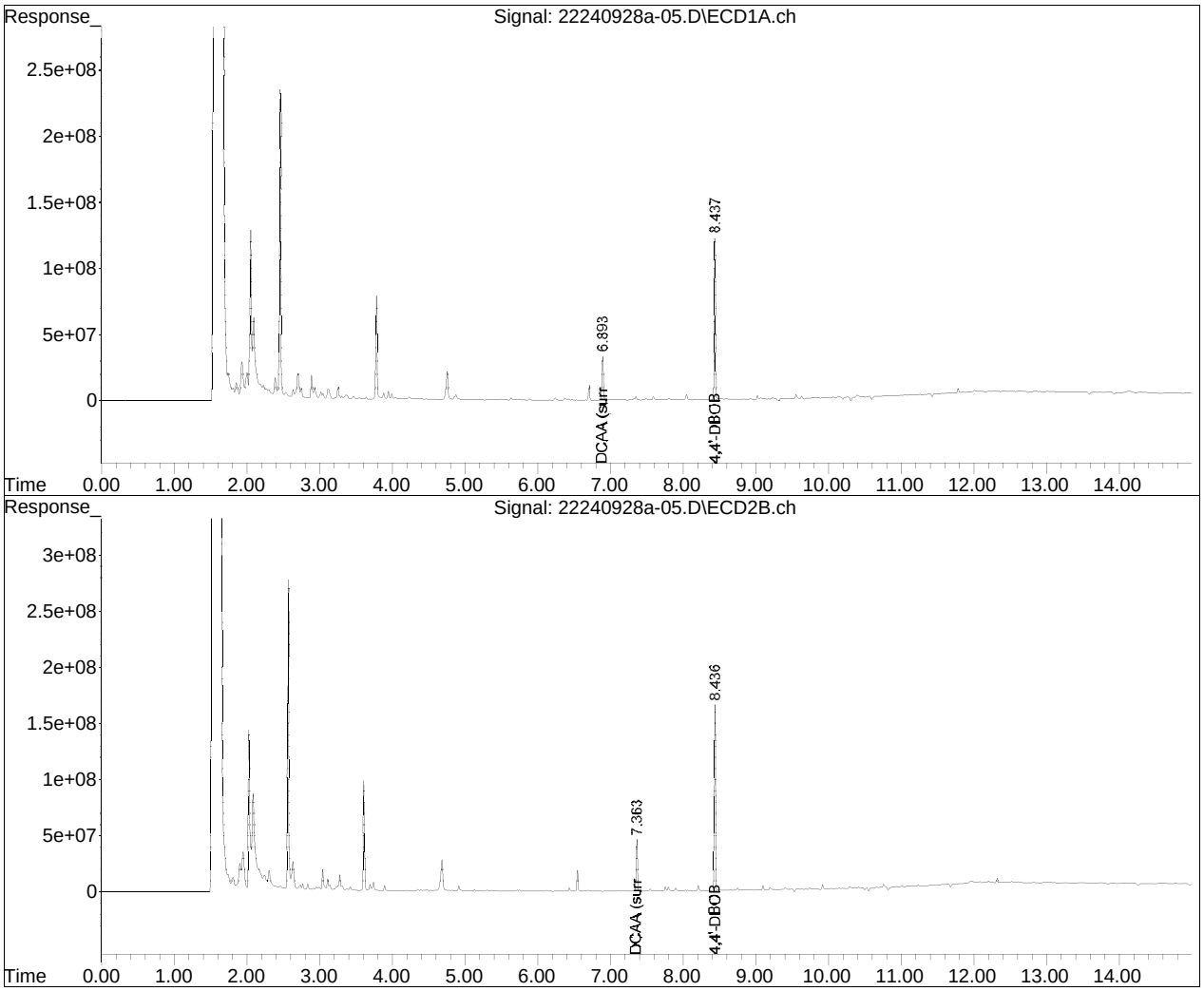
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240928a-01.D•

Data Path : I:\PEST\Pest22\2024\240928a\
Data File : 22240928a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Sep 2024 12:29
Operator : pest22:mmg
Sample : L2454352-01,42,,
Misc : wg1977565,WG1976959,ical21511
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 29 08:58:46 2024
Quant Method : I:\PEST\Pest22\2024\240928a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

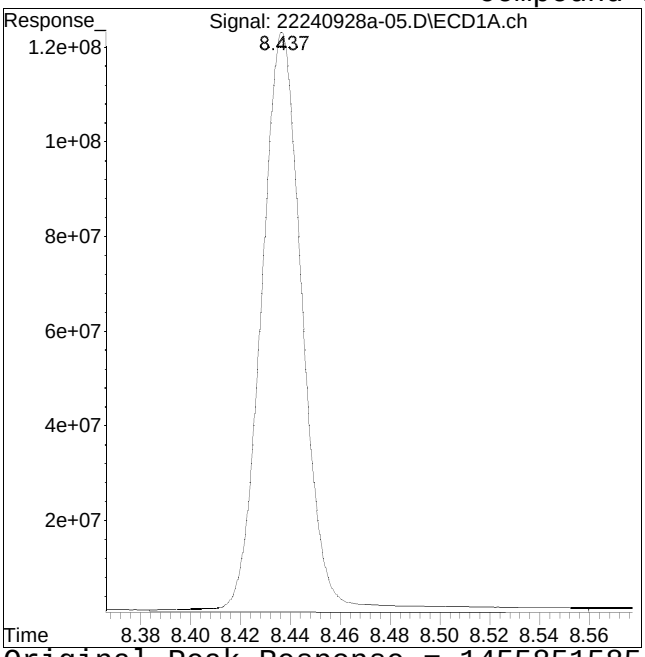
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

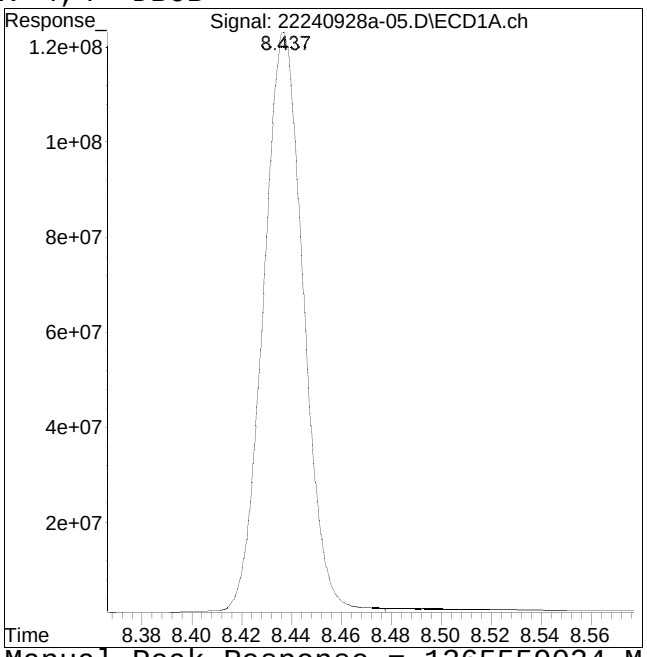


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240928QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240928a-05.D Operator : pest22:mmg
Date Inj'd : 9/28/2024 12:29 Instrument : Pest22
Sample : L2454352-01,42,, Quant Date : 9/29/2024 8:58 am

Compound #1: 4,4'-DBOB



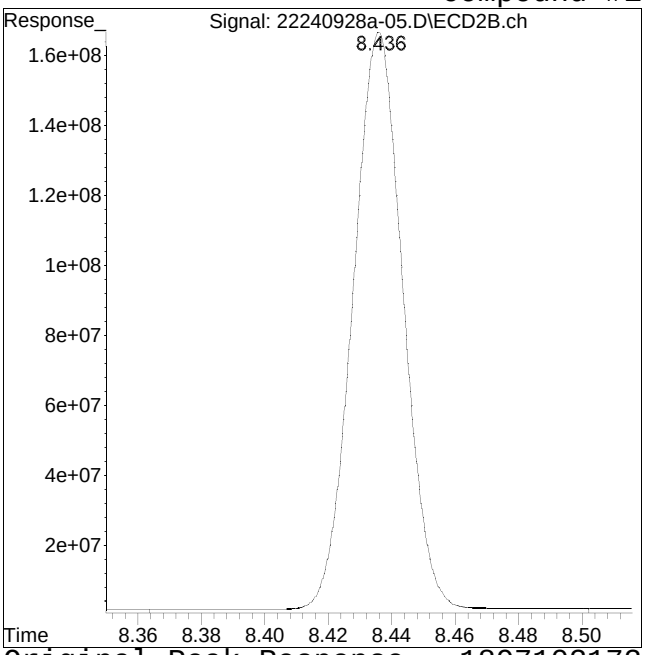


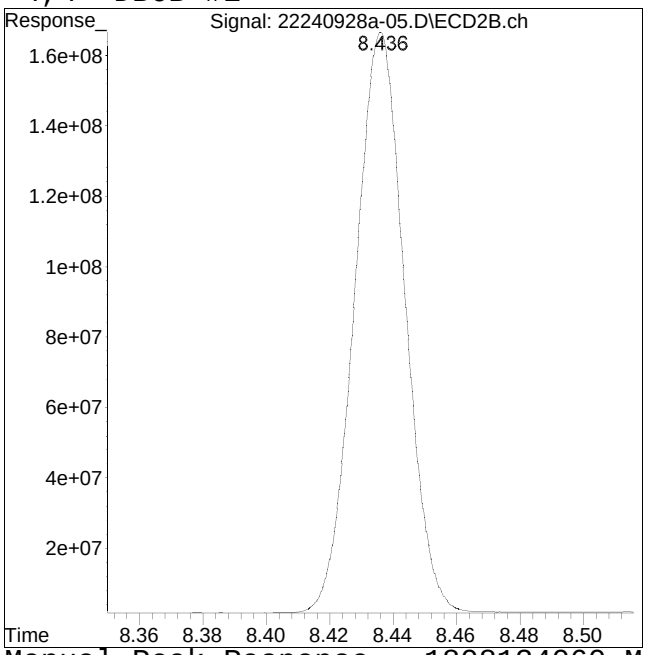
Original Peak Response = 1455851585 Manual Peak Response = 1365559024 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240928QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240928a-05.D Operator : pest22:mmg
Date Inj'd : 9/28/2024 12:29 Instrument : Pest22
Sample : L2454352-01,42,, Quant Date : 9/29/2024 8:58 am

Compound #14: 4,4'-DBOB #2



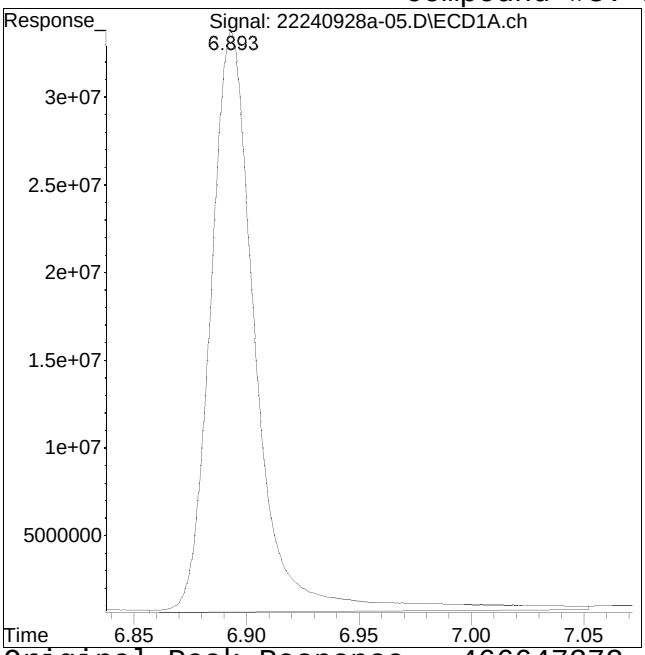


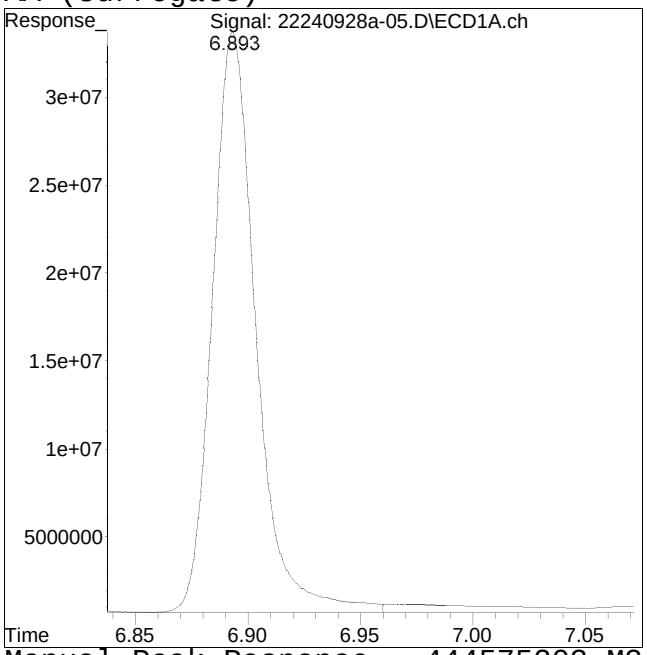
Original Peak Response = 1897103173 Manual Peak Response = 1808134060 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240928QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240928a-05.D Operator : pest22:mmg
Date Inj'd : 9/28/2024 12:29 Instrument : Pest22
Sample : L2454352-01,42,, Quant Date : 9/29/2024 8:58 am

Compound #3: DCAA (surrogate)



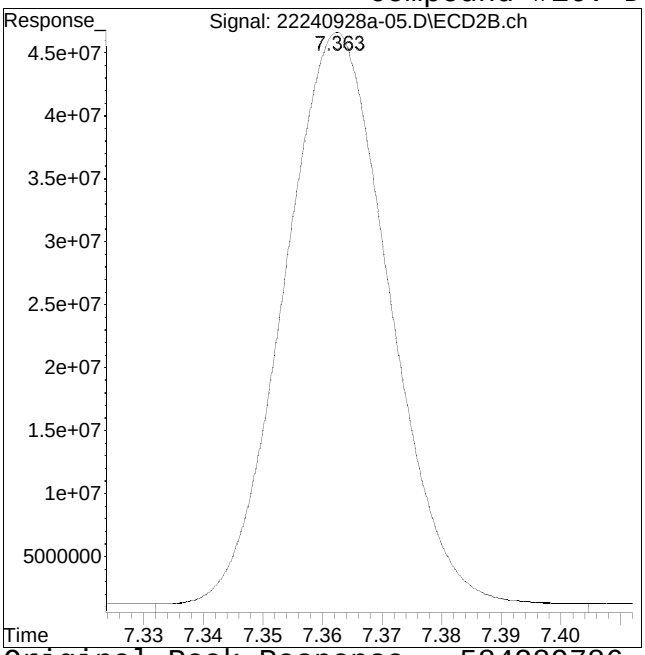


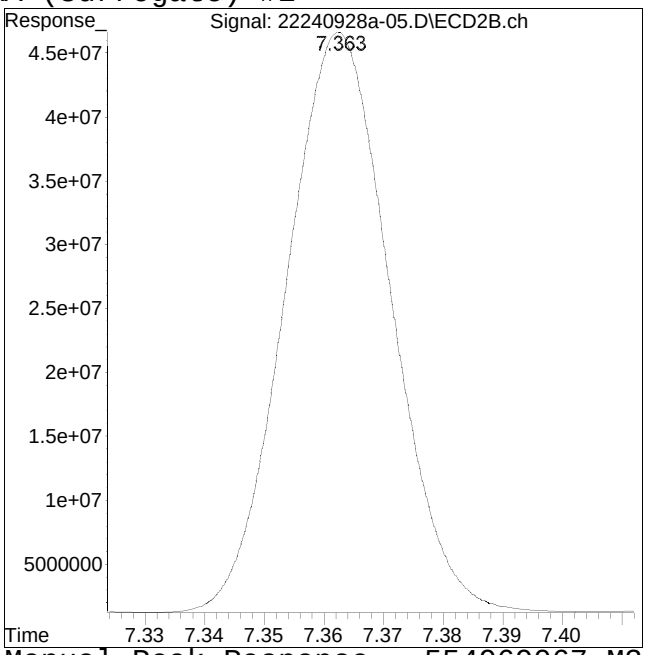
Original Peak Response = 466647372 Manual Peak Response = 444575203 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240928QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240928a-05.D Operator : pest22:mmg
Date Inj'd : 9/28/2024 12:29 Instrument : Pest22
Sample : L2454352-01,42,, Quant Date : 9/29/2024 8:58 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 584289786 Manual Peak Response = 554969067 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Herbicides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST22**	**Ical Ref**	**: ICAL21511**
Calibration dates	**: 09/20/24 11:42 09/20/24 13:15**		

Calibration Files

1 =22240920i-02.D 2 =22240920i-03.D 3 =22240920i-04.D 4 =22240920i-05.D 5 =22240920i-06.D

6 =22240920i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.268	0.253	0.244	0.207	0.196		0.234	13.27
3)	s	DCAA (surrogate)	0.213	0.207	0.200	0.180	0.159	0.146	0.184	14.76
4)	t	Dicamba	0.663	0.640	0.602	0.542	0.487	0.471	0.568	14.09
5)	t	MCPP	0.000	0.000	0.001	0.001	0.001	0.001	0.000	10.39
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	10.36
7)	t	Dichloroprop	0.218	0.201	0.190	0.162	0.144	0.134	0.175	19.07
8)	t	2,4-D	0.260	0.236	0.223	0.201	0.182	0.174	0.213	15.60
9)	t	2,4,5-TP (Silvex)	0.882	0.856	0.832	0.739	0.680	0.645	0.772	12.73
10)	t	2,4,5-T	0.939	0.859	0.837	0.747	0.695	0.676	0.792	12.99
11)	t	2,4-DB	0.141	0.121	0.123	0.110	0.103	0.098	0.116	13.37
12)	t	Dinoseb	0.754	0.680	0.636	0.533	0.481	0.459	0.590	19.96

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST22**	**Ical Ref**	**: ICAL21511**
Calibration dates	**: 09/20/24 11:42 09/20/24 13:15**		

Signal #2 Calibration Files

1 =22240920i-02.D 2 =22240920i-03.D 3 =22240920i-04.D 4 =22240920i-05.D 5 =22240920i-06.D

6 =22240920i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon		0.225	0.227	0.203	0.179	0.176	0.202	12.00
3)	s	DCAA (surrogate)	0.235	0.227	0.198	0.174	0.155	0.148	0.189	19.30
4)	t	Dicamba	0.638	0.604	0.557	0.497	0.457	0.447	0.534	14.78
5)	t	MCPP	0.000	0.001	0.001	0.001	0.001	0.001	0.001	8.78
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	12.33
7)	t	Dichloroprop	0.214	0.201	0.182	0.160	0.142	0.136	0.173	18.35
8)	t	2,4-D	0.270	0.252	0.231	0.204	0.189	0.185	0.222	15.74
9)	t	2,4,5-TP (Sil	0.905	0.874	0.820	0.723	0.673	0.659	0.776	13.57
10)	t	2,4,5-T	0.863	0.859	0.799	0.713	0.687	0.685	0.768	10.90
11)	t	2,4-DB	0.143	0.139	0.131	0.117	0.113	0.111	0.126	11.01
12)	t	Dinoseb	0.557	0.554	0.517	0.455	0.429	0.425	0.490	12.42

Response Factor Report Pest22

Method Path : I:\PEST\Pest22\2024\240920ical\
Method File : Herb22_2024_09_20_mgL_ICAL.m
Title : herb
Last Update : Mon Sep 23 11:28:20 2024
Response Via : Initial Calibration

Calibration Files
1 =22240920i-02.D 2 =22240920i-03.D 3 =22240920i-04.D 4 =22240920i-05.D 5 =22240920i-06.D
6 =22240920i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon		0.268	0.253	0.244	0.207	0.196	0.234	13.27
3)	s	DCAA (surrogate)	0.213	0.207	0.200	0.180	0.159	0.146	0.184	14.76
4)	t	Dicamba	0.663	0.640	0.602	0.542	0.487	0.471	0.568	14.09
5)	t	MCPP	0.000	0.000	0.001	0.001	0.001	0.001	0.000	10.39
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	10.36
7)	t	Dichloroprop	0.218	0.201	0.190	0.162	0.144	0.134	0.175	19.07
8)	t	2,4-D	0.260	0.236	0.223	0.201	0.182	0.174	0.213	15.60
9)	t	2,4,5-TP (Sil...	0.882	0.856	0.832	0.739	0.680	0.645	0.772	12.73
10)	t	2,4,5-T	0.939	0.859	0.837	0.747	0.695	0.676	0.792	12.99
11)	t	2,4-DB	0.141	0.121	0.123	0.110	0.103	0.098	0.116	13.37
12)	t	Dinoseb	0.754	0.680	0.636	0.533	0.481	0.459	0.590	19.96

Signal #2 Calibration Files
1 =22240920i-02.D 2 =22240920i-03.D 3 =22240920i-04.D 4 =22240920i-05.D 5 =22240920i-06.D
6 =22240920i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon		0.225	0.227	0.203	0.179	0.176	0.202	12.00
3)	s	DCAA (surrogate)	0.235	0.227	0.198	0.174	0.155	0.148	0.189	19.30
4)	t	Dicamba	0.638	0.604	0.557	0.497	0.457	0.447	0.534	14.78
5)	t	MCPP	0.000	0.001	0.001	0.001	0.001	0.001	0.001	8.78
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	12.33
7)	t	Dichloroprop	0.214	0.201	0.182	0.160	0.142	0.136	0.173	18.35
8)	t	2,4-D	0.270	0.252	0.231	0.204	0.189	0.185	0.222	15.74
9)	t	2,4,5-TP (Sil...	0.905	0.874	0.820	0.723	0.673	0.659	0.776	13.57
10)	t	2,4,5-T	0.863	0.859	0.799	0.713	0.687	0.685	0.768	10.90
11)	t	2,4-DB	0.143	0.139	0.131	0.117	0.113	0.111	0.126	11.01

Method Path : I:\PEST\Pest22\2024\240920ical\
Method File : Herb22_2024_09_20_mgL_ICAL.m
Title : herb
Last Update : Mon Sep 23 11:28:20 2024
Response Via : Initial Calibration

Calibration Files
1 =22240920i-02.D 2 =22240920i-03.D 3 =22240920i-04.D 4 =22240920i-05.D 5 =22240920i-06.D
6 =22240920i-07.D

	Compound	1	2	3	4	5	6	Avg	%RSD
12) t	Dinoseb	0.557	0.554	0.517	0.455	0.429	0.425	0.490	12.42

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 11:42 am
Operator : pest22:akm
Sample : il1herb,42e,,pp 11633 L0.005/5
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:33:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:33:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.436	8.435	1208.6E6	1536.3E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.906	7.365	48342330	67860898	0.054M4	0.058M4
		Spiked Amount	0.500	Range	30 - 150	Recovery =	10.80%#	11.60%#
		Target Compounds						
2)	t	Dalapon	2.327	2.321	64110826	69961534	0.055M4	0.051M4
4)	t	Dicamba	7.079	7.542	150.7E6	184.3E6	0.055M4	0.056M4
5)	t	MCPP	7.276	7.655	8760966	12721796	3.748M4	3.942M4
6)	t	MCPA	7.424	7.882	20732761	31539153	4.929M4	5.385M4
7)	t	Dichloroprop	7.786	8.201	49557404	61863211	0.059M4	0.058M4
8)	t	2,4-D	8.021f	8.479	59112709	78070519	0.057M4	0.057M4
9)	t	2,4,5-TP (Si	8.719	9.137	202.5E6	264.1E6	0.054M4	0.055M4
10)	t	2,4,5-T	8.953f	9.428	215.5E6	252.0E6	0.057M4	0.053M4
11)	t	2,4-DB	9.364f	9.791	32612397	42276332	0.058M4	0.055M4
12)	t	Dinoseb	10.088	10.011	173.2E6	162.6E6	0.064M4	0.054M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 11:42 am
Operator : pest22:akm
Sample : il1herb,42e,,pp 11633 L0.005/5
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:33:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:33:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

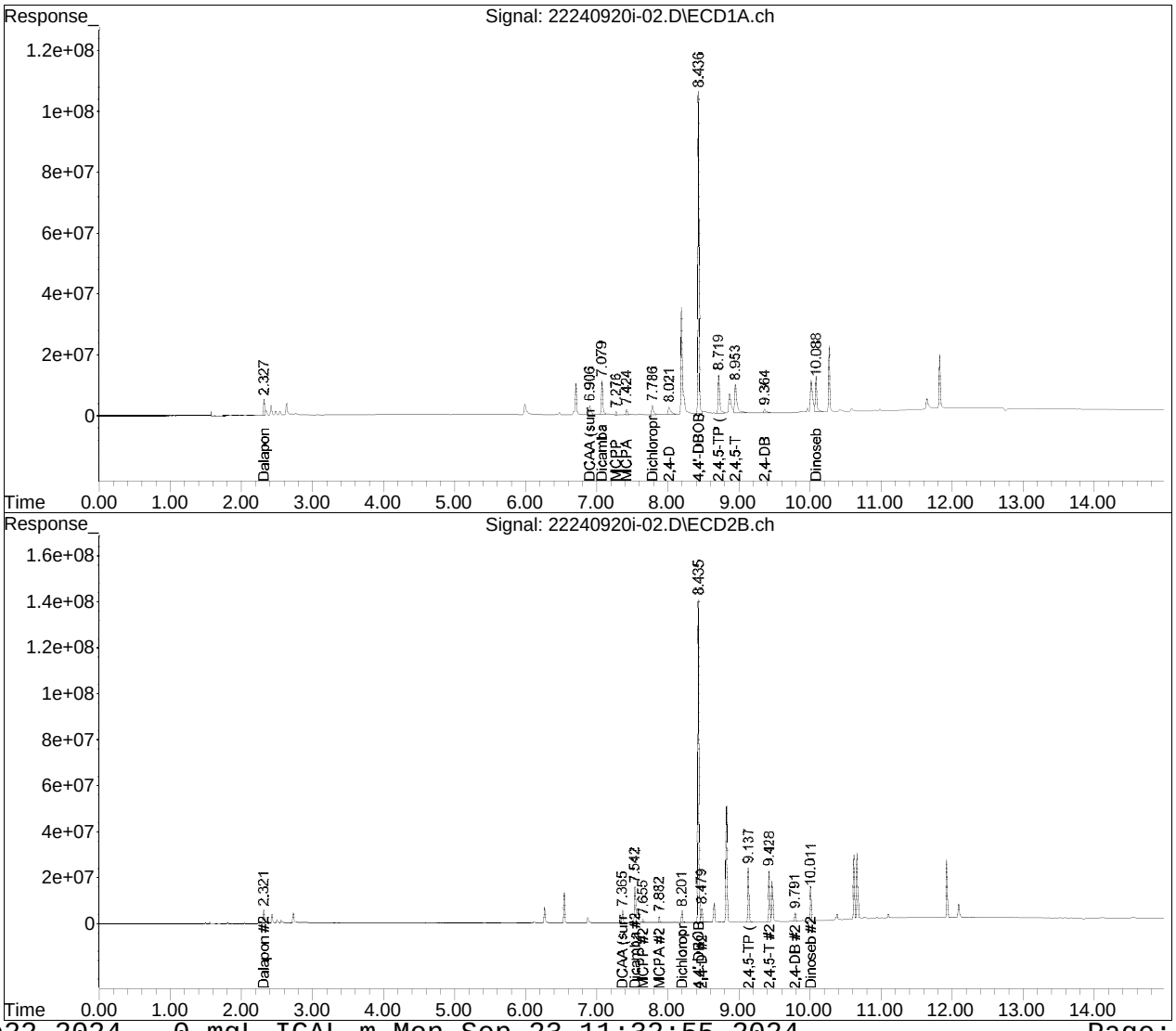
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 11:42 am
Operator : pest22:akm
Sample : il1herb,42e,,pp 11633 L0.005/5
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:33:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:33:19 2024
Response via : Initial Calibration
Integrator: ChemStation

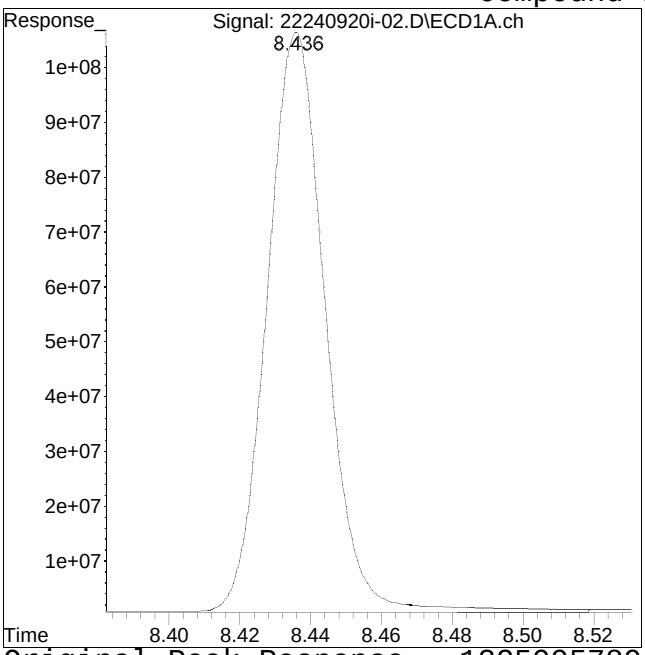
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

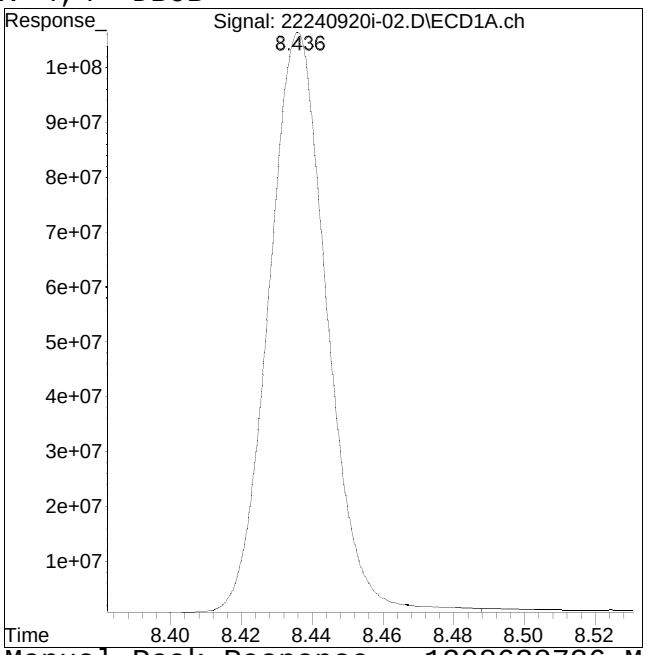


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #1: 4,4'-DBOB



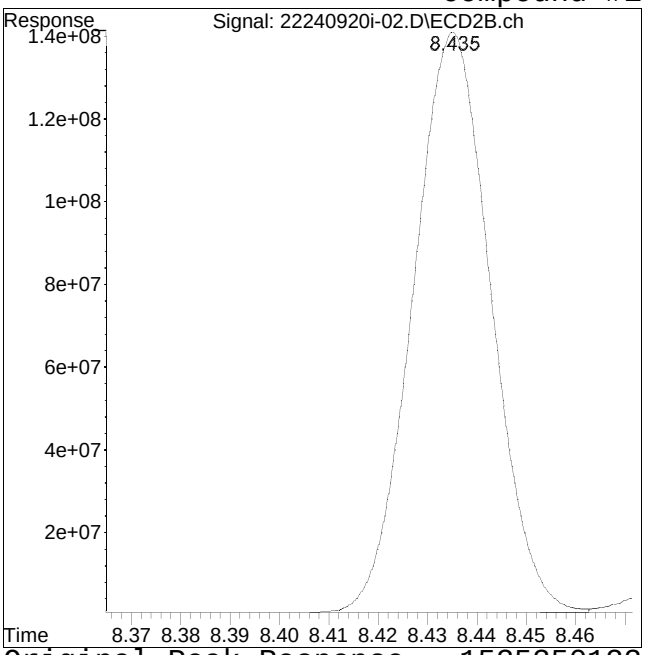


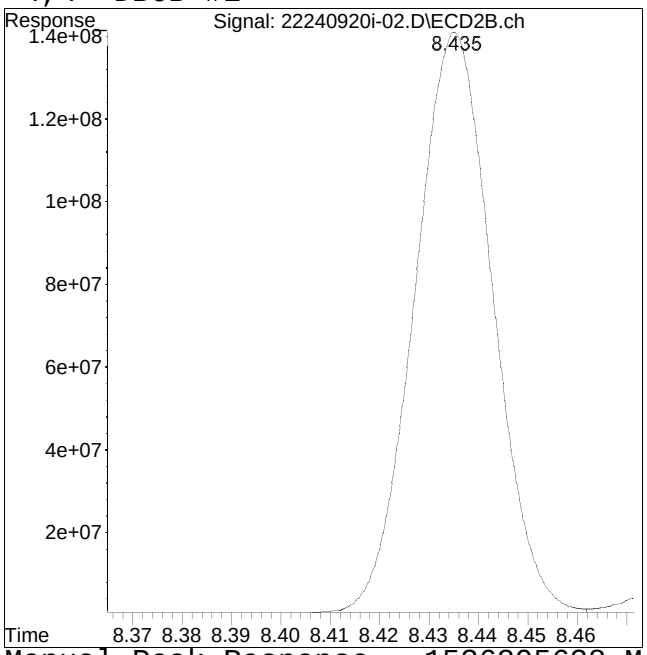
Original Peak Response = 1225995789 Manual Peak Response = 1208638736 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #14: 4,4'-DBOB #2



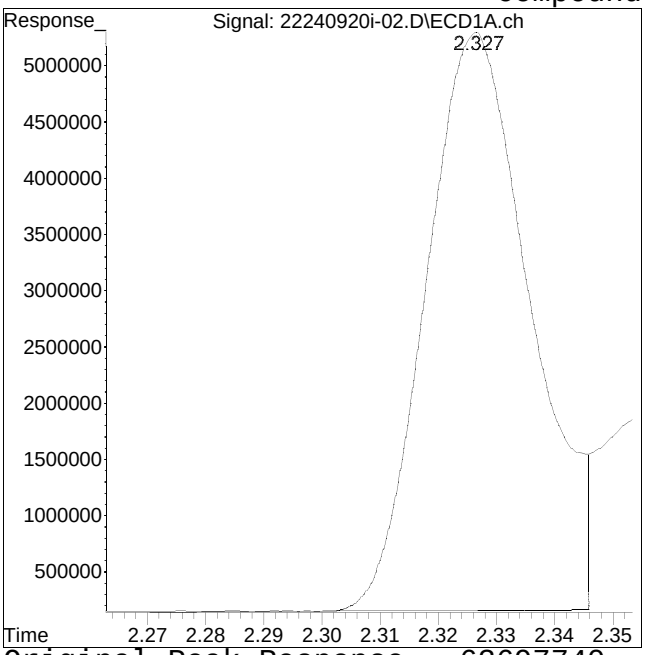


Original Peak Response = 1535350123 Manual Peak Response = 1536295638 M4
M4 = Poor automated baseline construction.

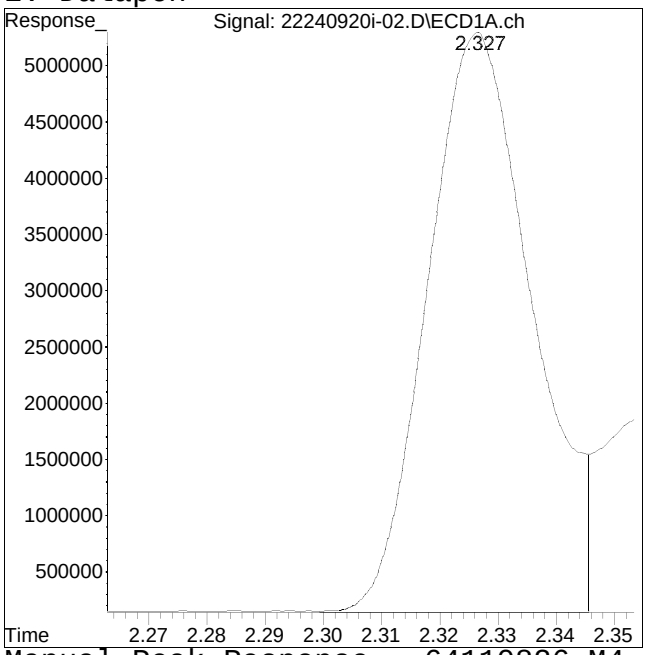
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #2: Dalapon



Original Peak Response = 63697740



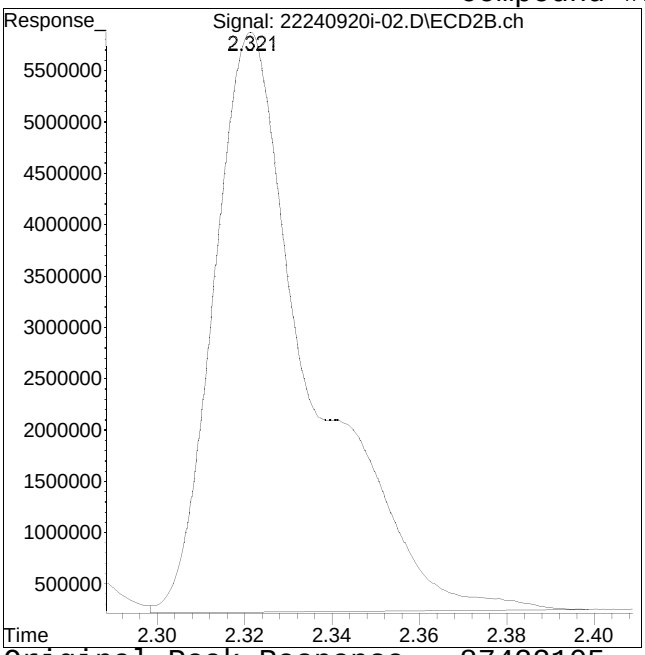
Manual Peak Response = 64110826 M4

M4 = Poor automated baseline construction.

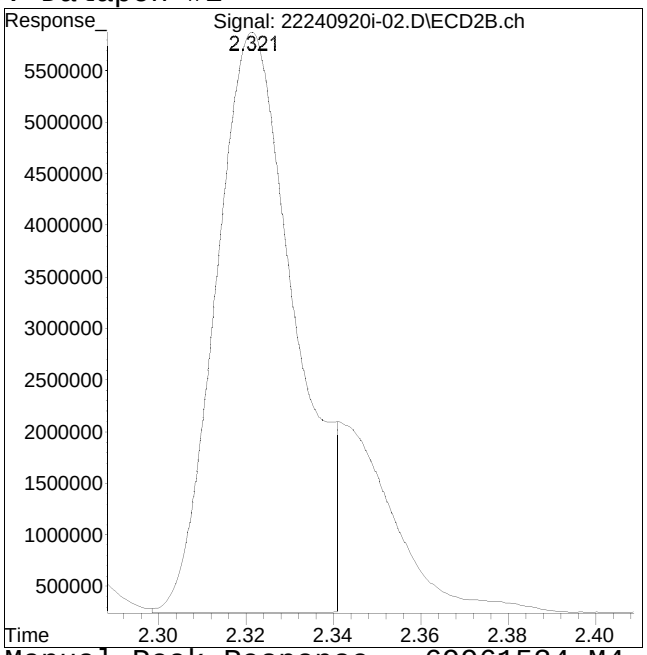
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #15: Dalapon #2



Original Peak Response = 87422105



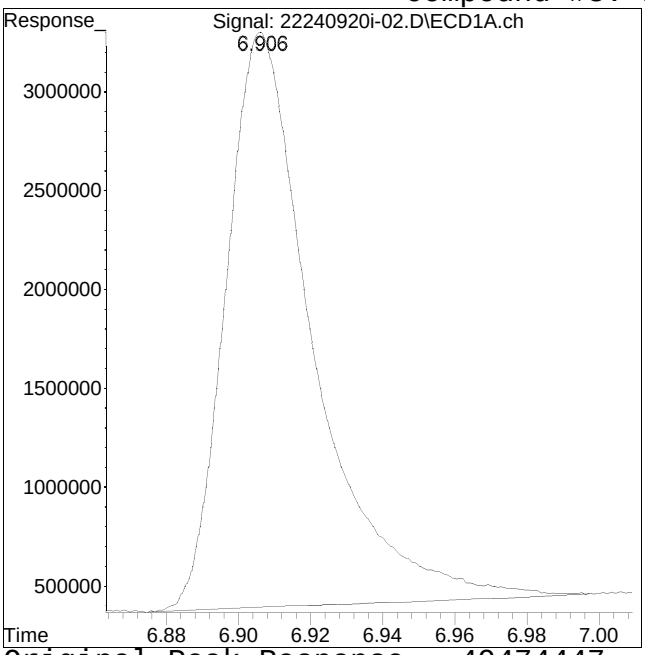
Manual Peak Response = 69961534 M4

M4 = Poor automated baseline construction.

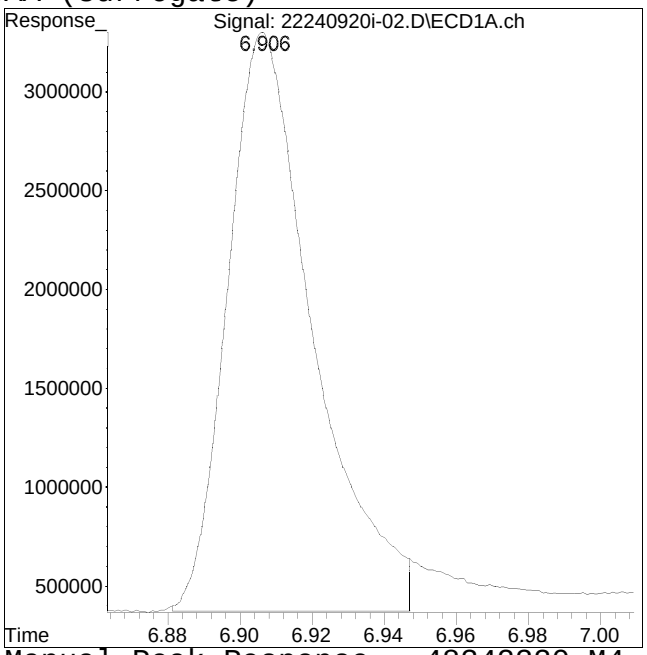
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #3: DCAA (surrogate)



Original Peak Response = 49474447



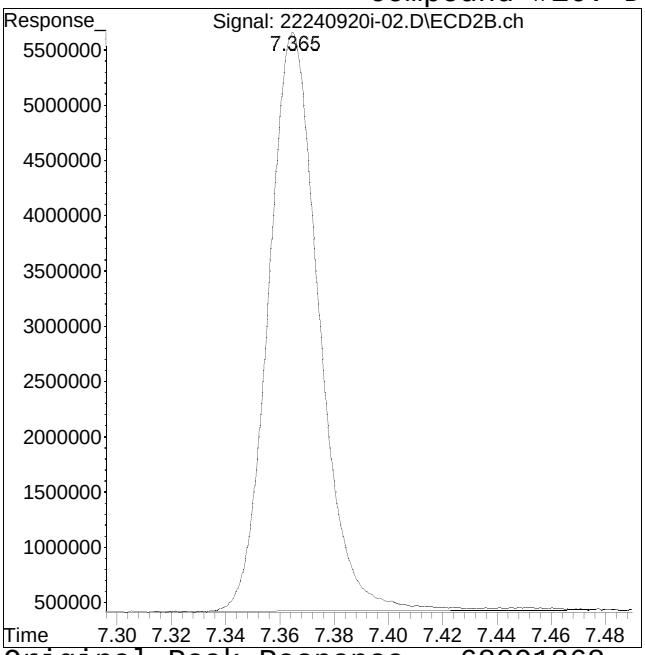
Manual Peak Response = 48342330 M4

M4 = Poor automated baseline construction.

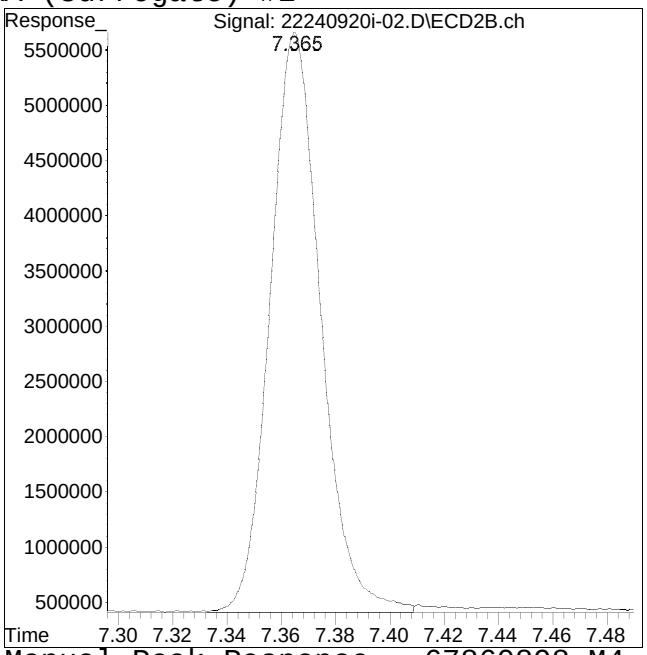
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 68091368



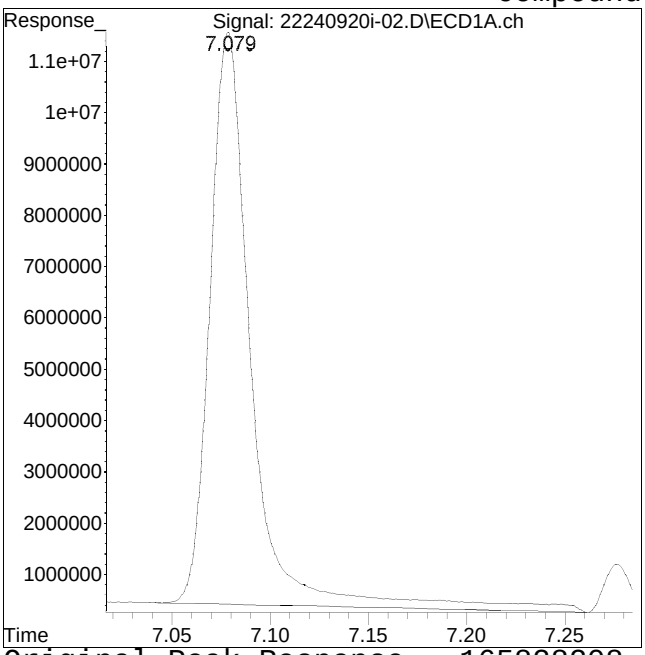
Manual Peak Response = 67860898 M4

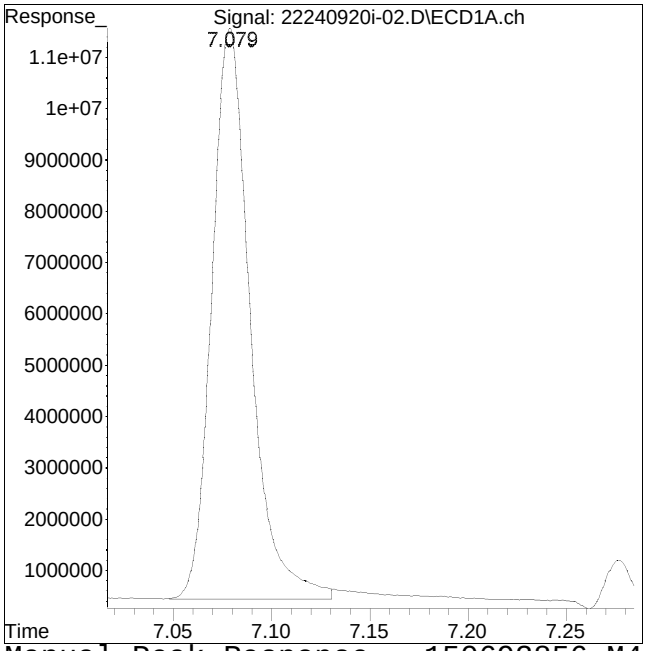
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #4: Dicamba



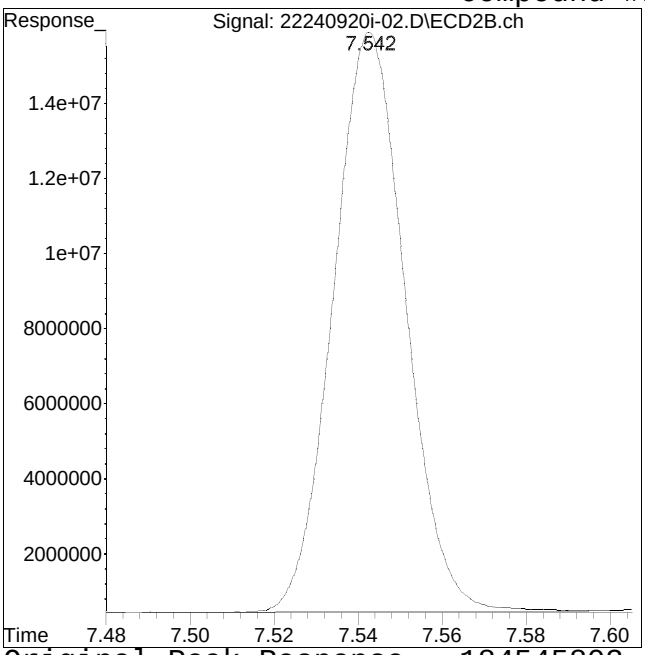


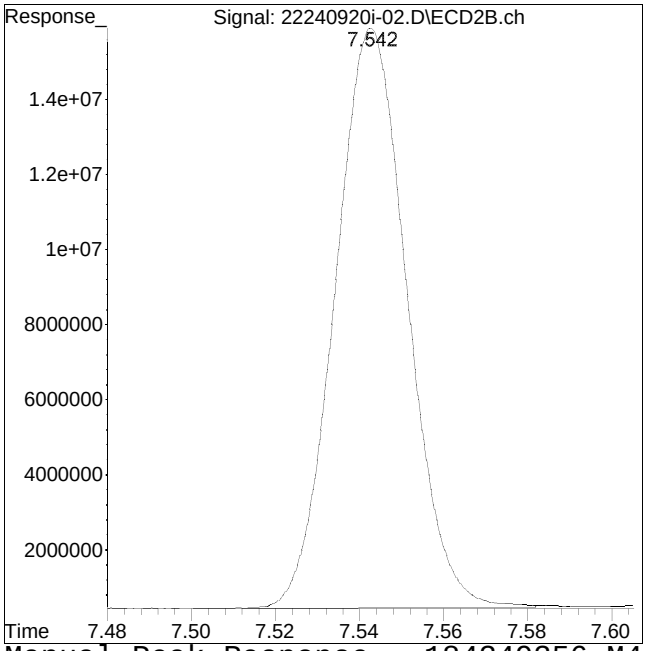
Original Peak Response = 165828208 Manual Peak Response = 150693856 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #17: Dicamba #2



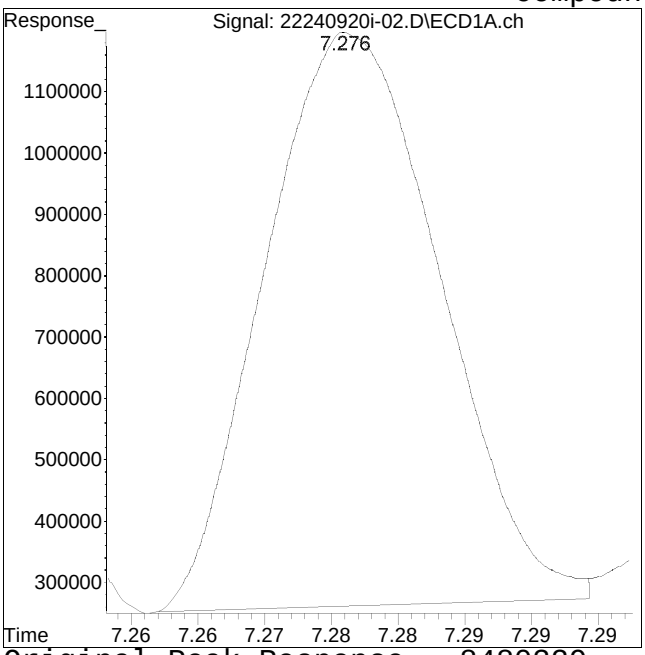


Original Peak Response = 184545803 Manual Peak Response = 184349356 M4
M4 = Poor automated baseline construction.

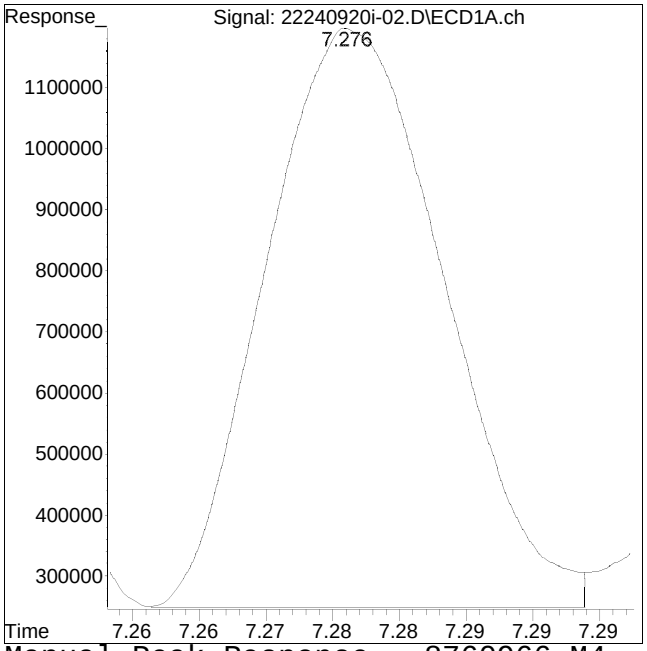
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #5: MCPP



Original Peak Response = 8480329



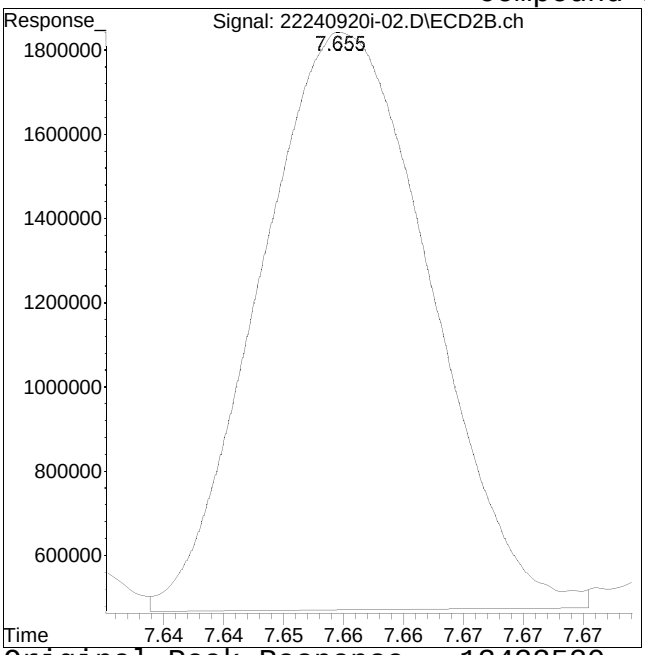
Manual Peak Response = 8760966 M4

M4 = Poor automated baseline construction.

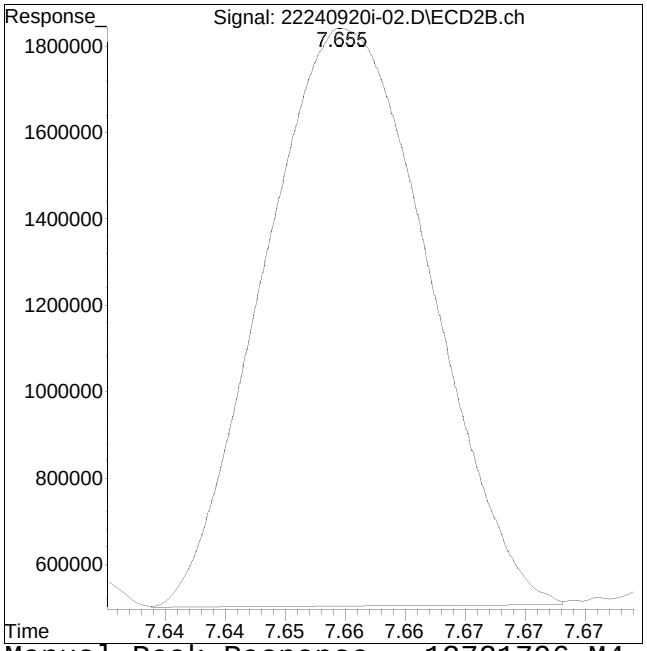
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #18: MCPP #2



Original Peak Response = 13433530



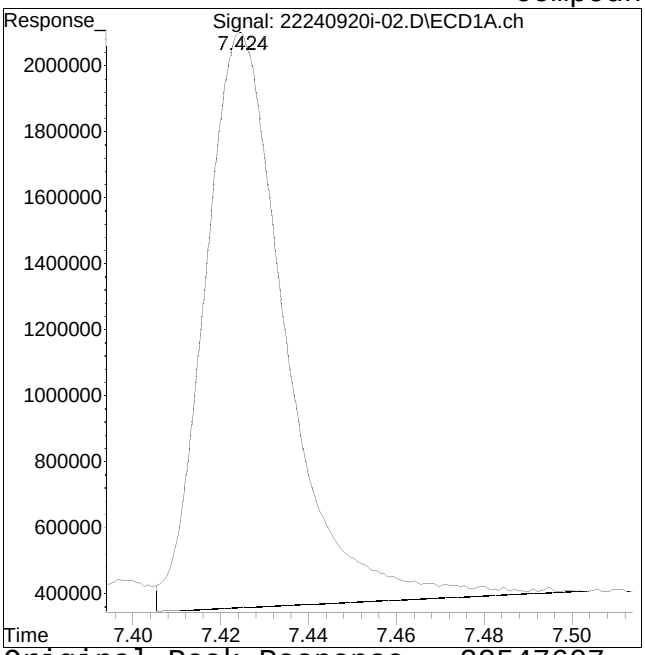
Manual Peak Response = 12721796 M4

M4 = Poor automated baseline construction.

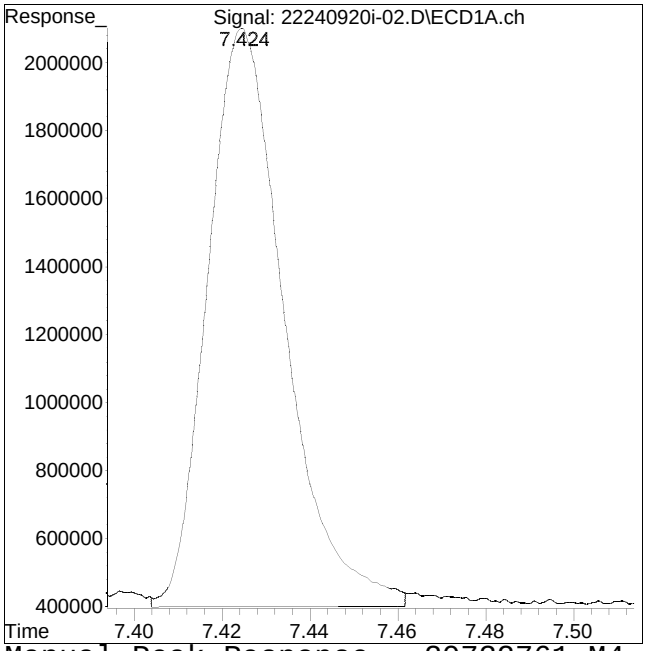
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #6: MCPA



Original Peak Response = 22547607



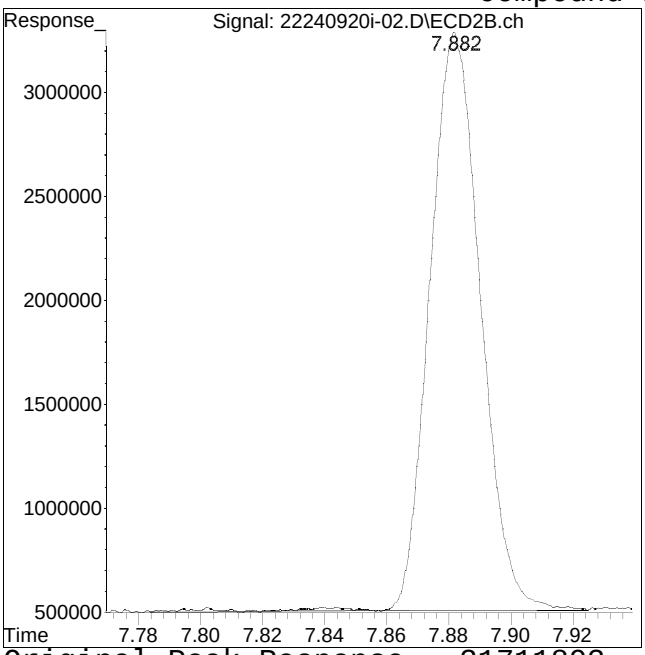
Manual Peak Response = 20732761 M4

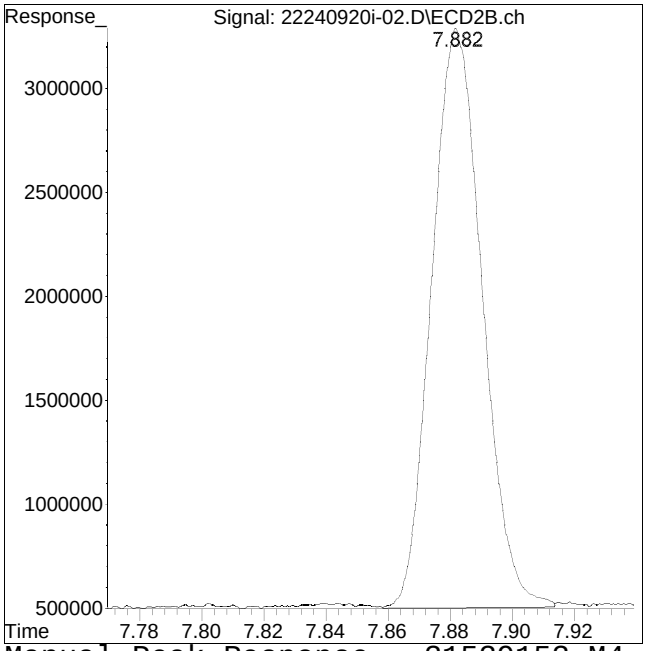
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #19: MCPA #2



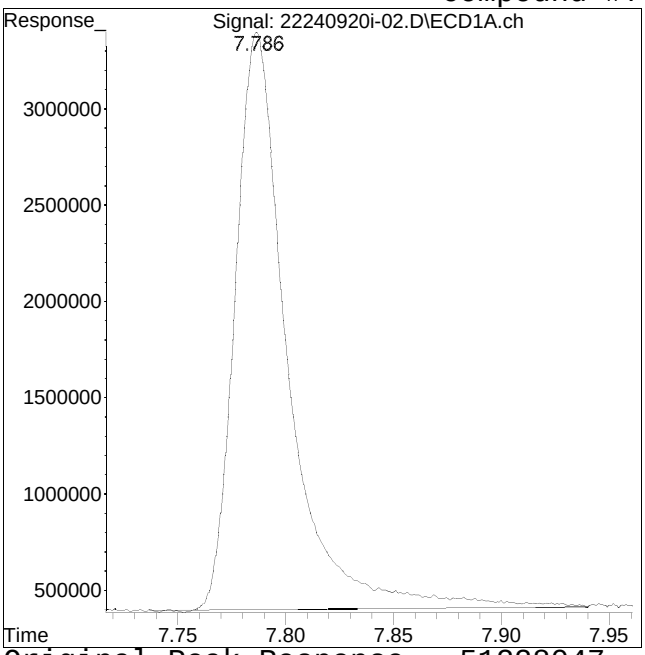


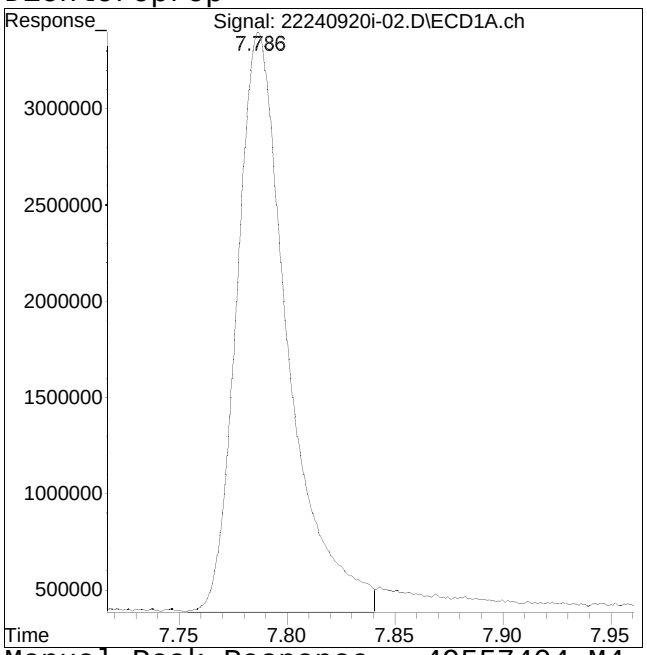
Original Peak Response = 31711893 Manual Peak Response = 31539153 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #7: Dichloroprop



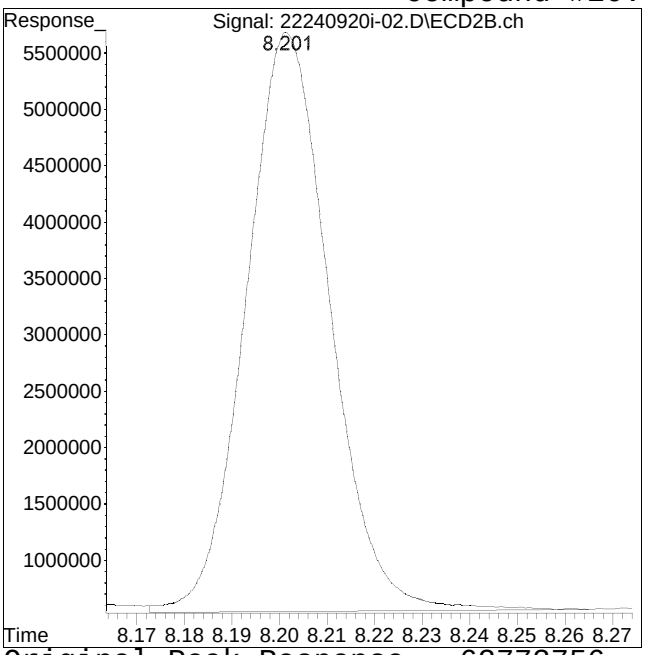


Original Peak Response = 51228047 Manual Peak Response = 49557404 M4
M4 = Poor automated baseline construction.

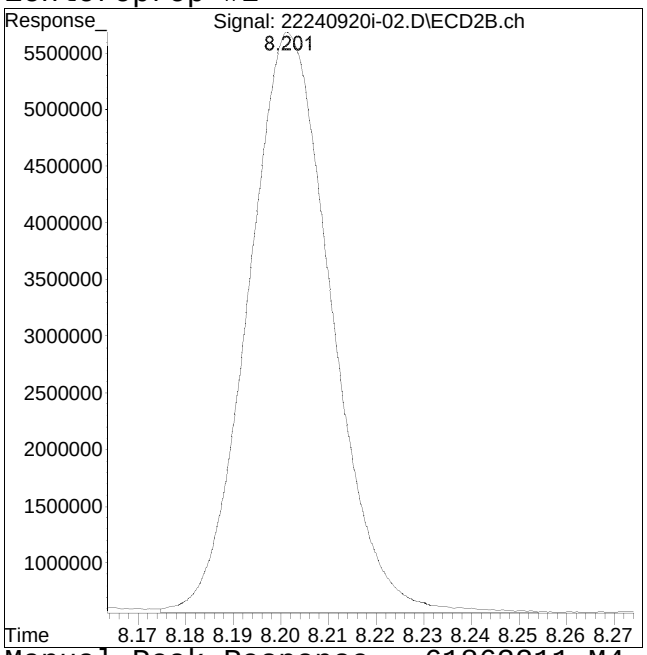
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #20: Dichloroprop #2



Original Peak Response = 62773756



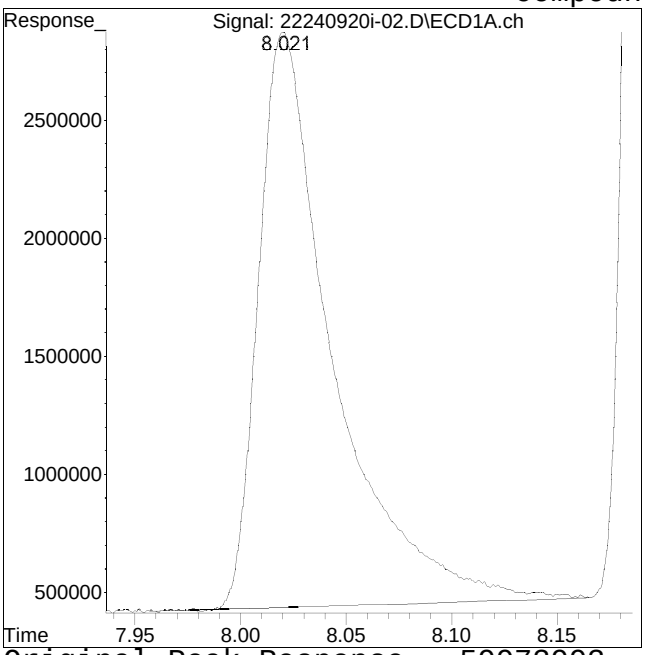
Manual Peak Response = 61863211 M4

M4 = Poor automated baseline construction.

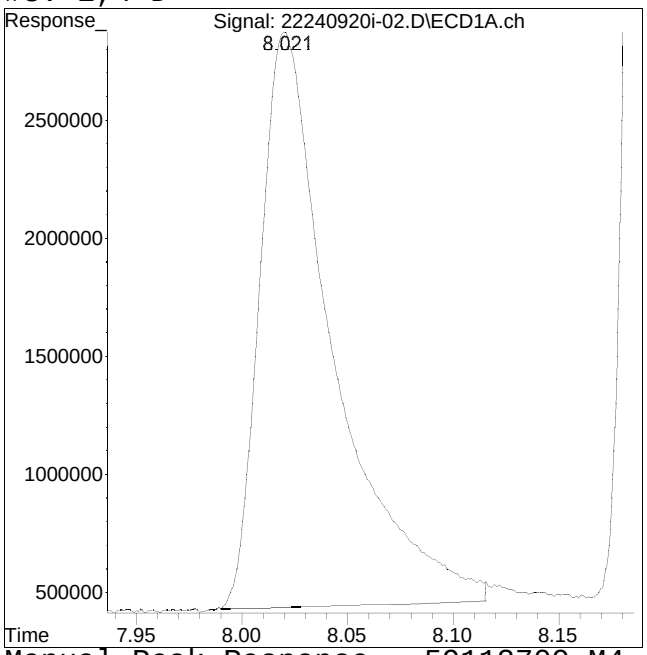
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #8: 2,4-D



Original Peak Response = 59973993



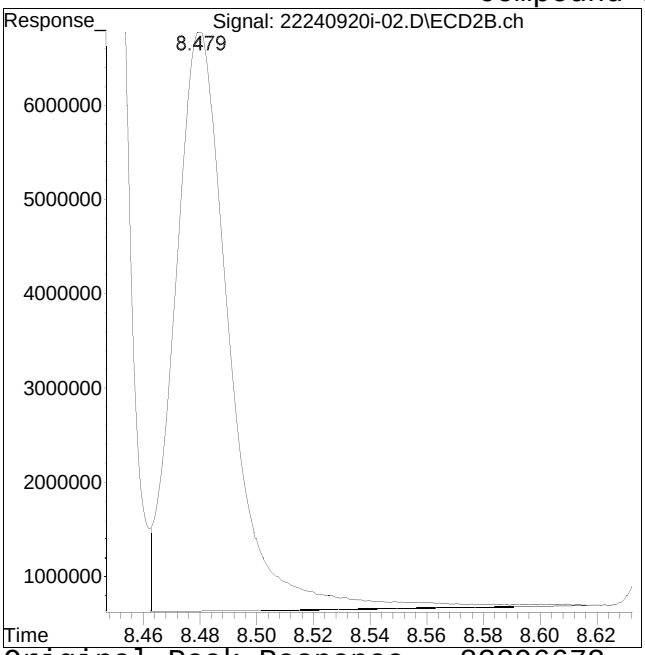
Manual Peak Response = 59112709 M4

M4 = Poor automated baseline construction.

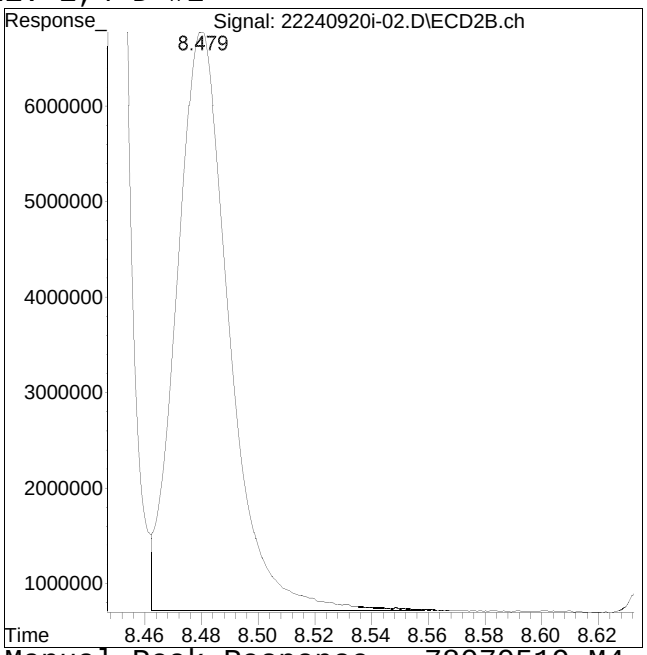
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #21: 2,4-D #2



Original Peak Response = 83296673



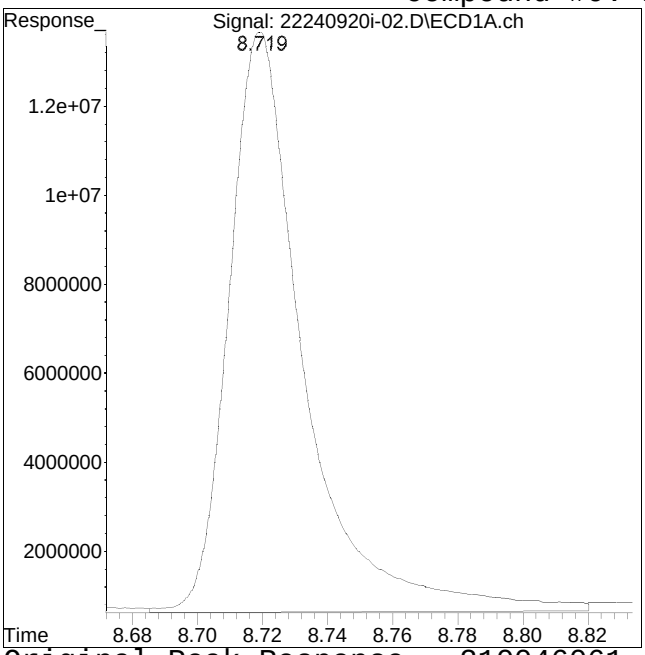
Manual Peak Response = 78070519 M4

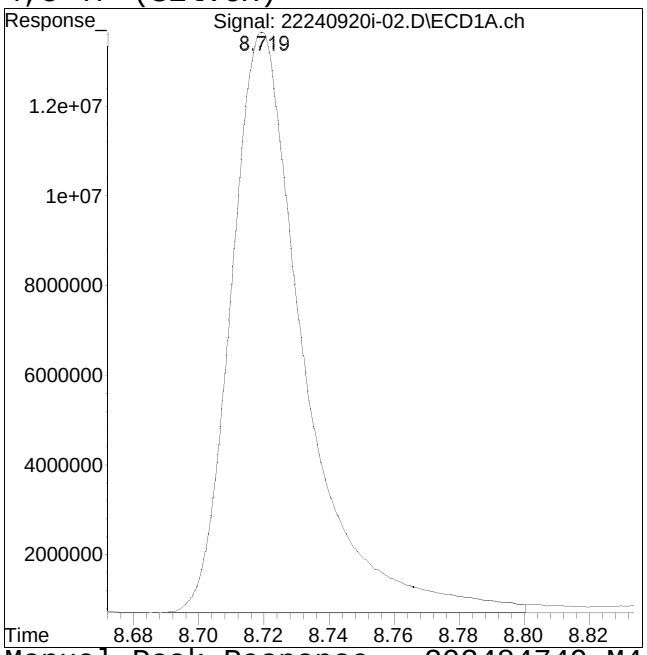
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #9: 2,4,5-TP (Silvex)



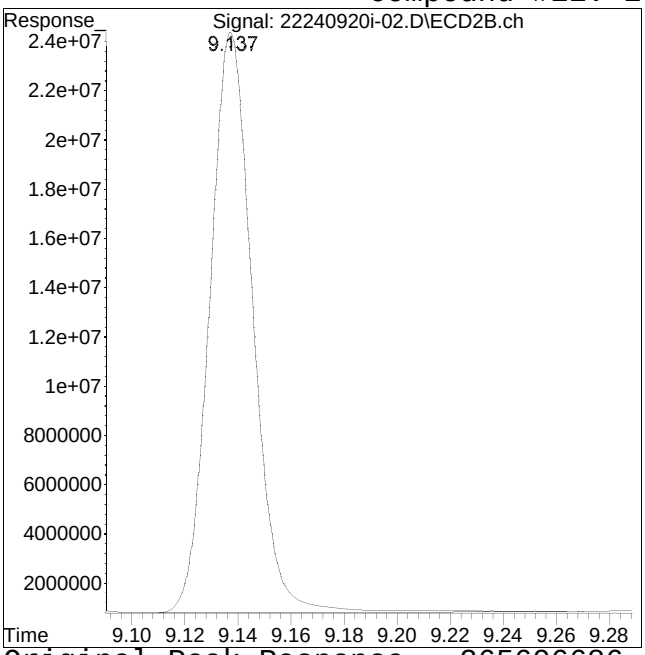


Original Peak Response = 210046061 Manual Peak Response = 202484749 M4
M4 = Poor automated baseline construction.

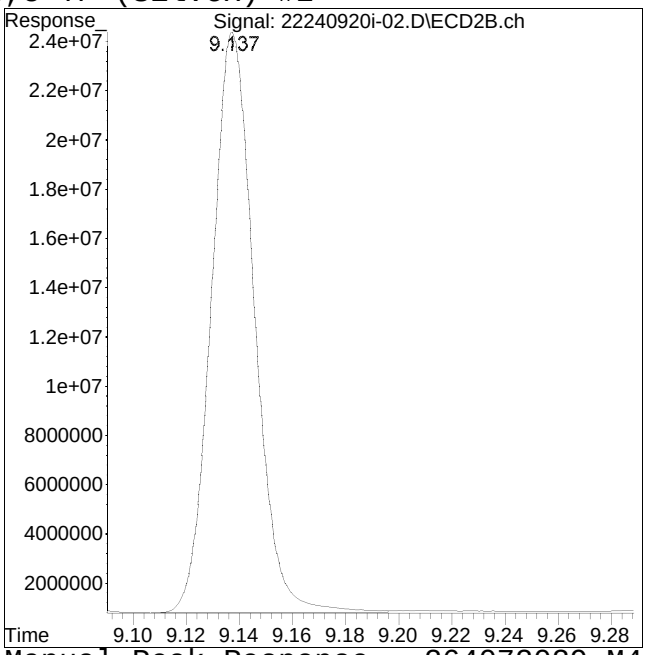
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 265606686



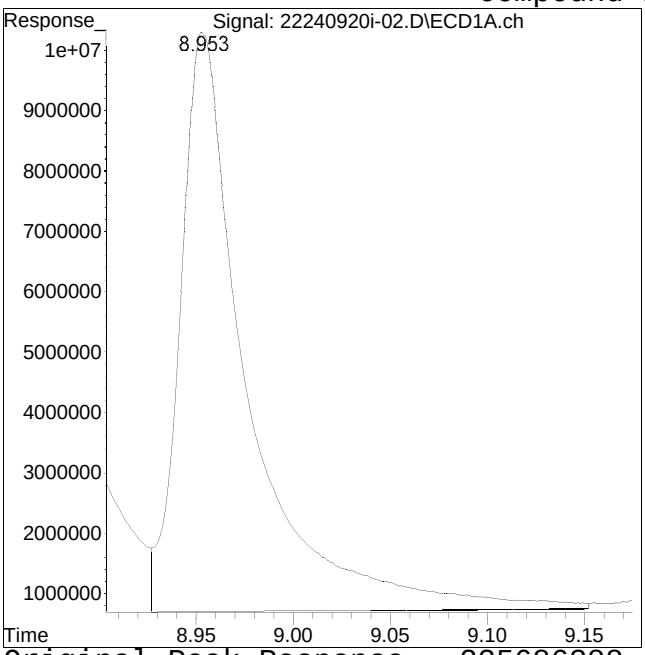
Manual Peak Response = 264072029 M4

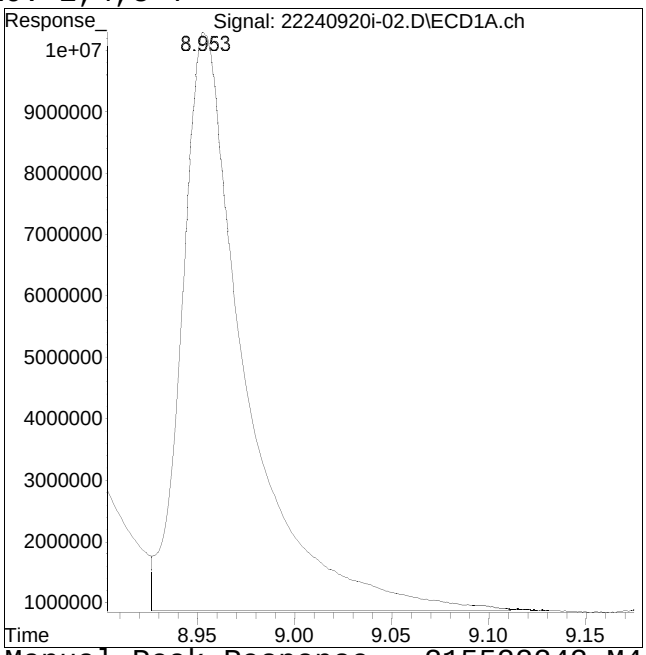
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #10: 2,4,5-T



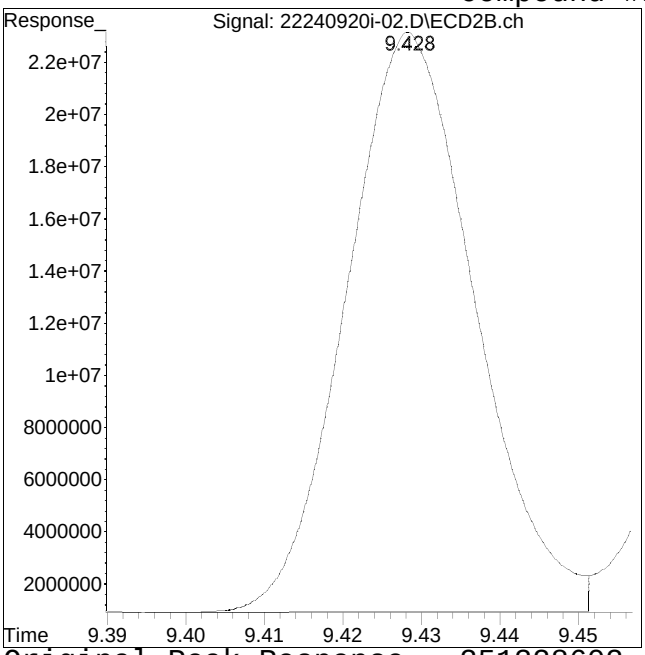


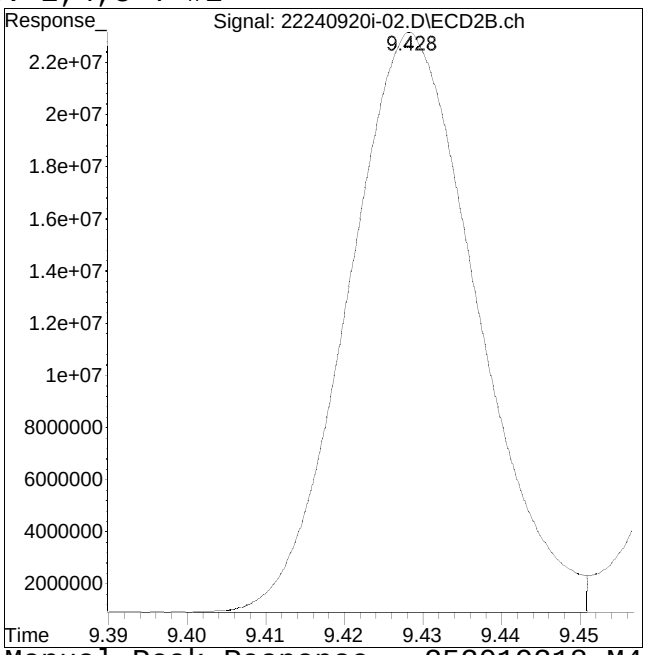
Original Peak Response = 235686388 Manual Peak Response = 215522242 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #23: 2,4,5-T #2



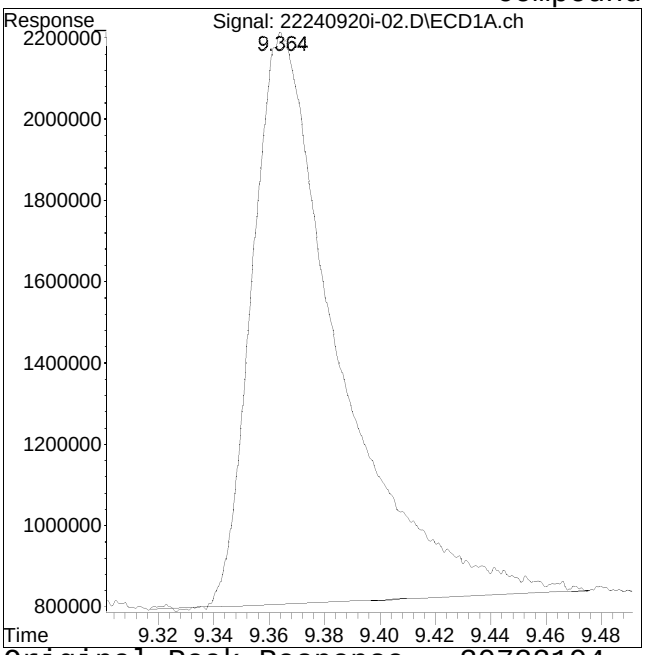


Original Peak Response = 251328602 Manual Peak Response = 252019318 M4
M4 = Poor automated baseline construction.

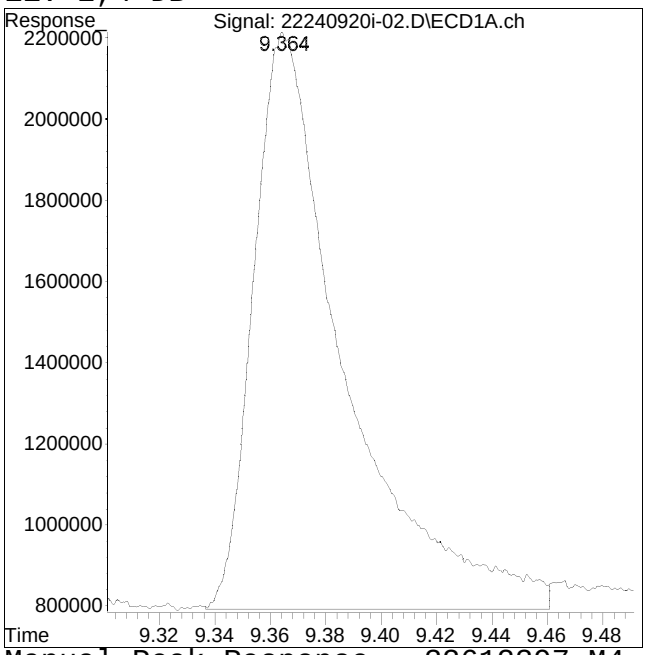
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #11: 2,4-DB



Original Peak Response = 30722194



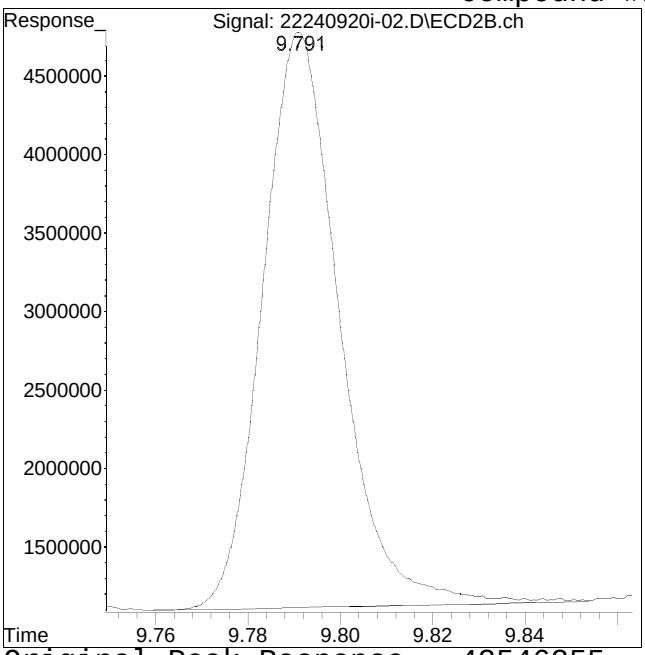
Manual Peak Response = 32612397 M4

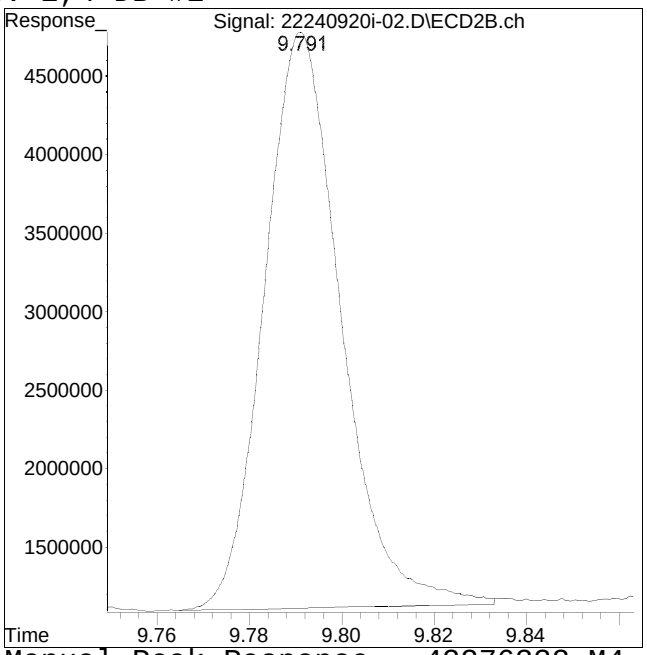
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #24: 2,4-DB #2



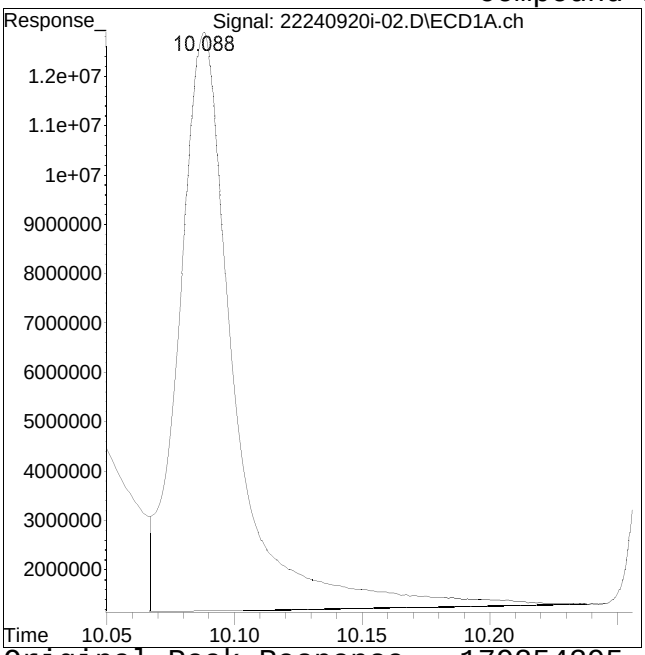


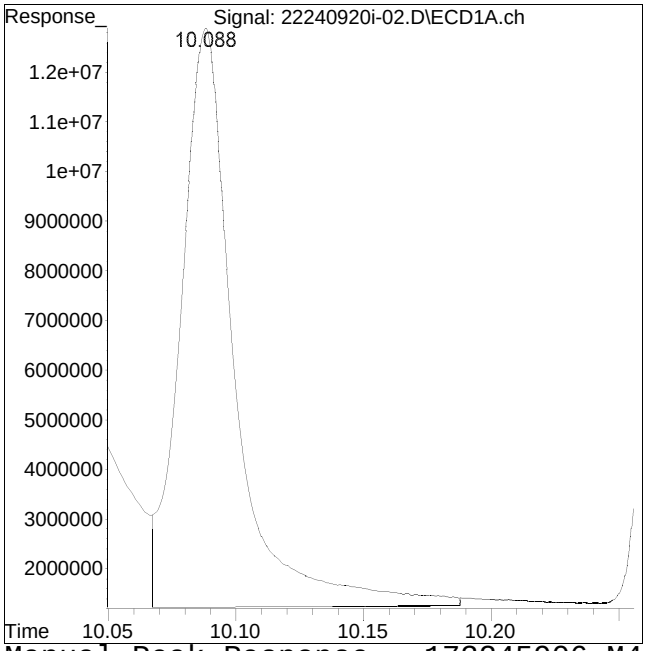
Original Peak Response = 42546255 Manual Peak Response = 42276332 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #12: Dinoseb



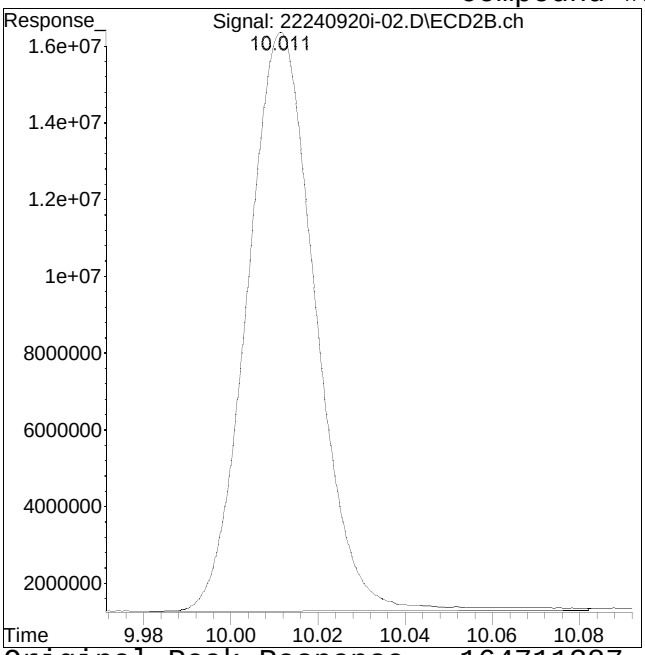


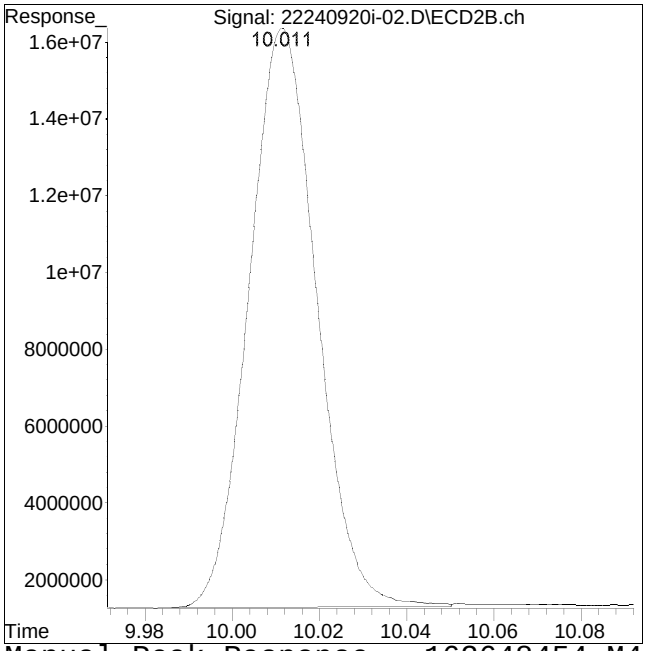
Original Peak Response = 179254395 Manual Peak Response = 173245906 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #25: Dinoseb #2





Original Peak Response = 164711387 Manual Peak Response = 162648454 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:01 pm
Operator : pest22:akm
Sample : il2herb,42e,,pp 11632 L0.1/10
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:27:37 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:27:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.437	8.435	1259.9E6	1596.4E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.903	7.364	98009582	136.2E6	0.109M4	0.118M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	21.80%#	23.60%#
		Target Compounds						
2)	t	Dalapon	2.326	2.321	122.9E6	130.8E6	0.104M3	0.099M3
4)	t	Dicamba	7.077	7.542	303.3E6	362.5E6	0.110M4	0.111M4
5)	t	MCPP	7.276	7.655	22437726	30753638	8.849M4	8.884M4
6)	t	MCPA	7.423	7.882	45037977	63370790	10.397M4	10.753M4
7)	t	Dichloroprop	7.784	8.202	95191965	120.5E6	0.114M4	0.115M4
8)	t	2,4-D	8.009	8.478	112.0E6	151.3E6	0.109M3	0.112M4
9)	t	2,4,5-TP (Si	8.714	9.136	409.7E6	530.4E6	0.108M3	0.111M4
10)	t	2,4,5-T	8.940	9.428	411.2E6	521.3E6	0.108M4	0.109
11)	t	2,4-DB	9.355	9.790	58377768	85050468	0.104M3	0.109M4
12)	t	Dinoseb	10.087	10.011	325.4E6	336.1E6	0.122M4	0.111M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:01 pm
Operator : pest22:akm
Sample : il2herb,42e,,pp 11632 L0.1/10
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:27:37 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:27:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

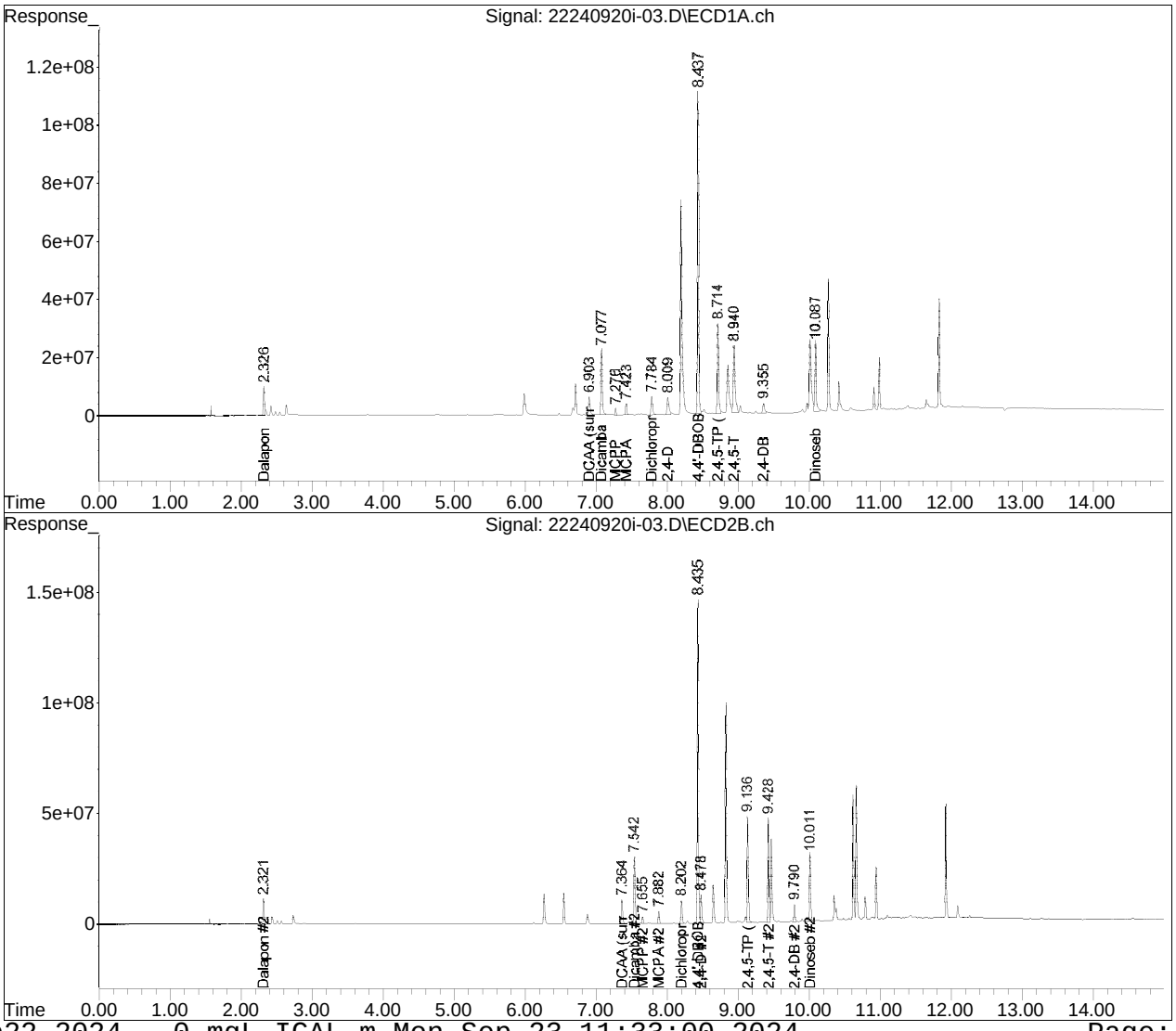
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:01 pm
Operator : pest22:akm
Sample : il2herb,42e,,pp 11632 L0.1/10
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:27:37 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:27:30 2024
Response via : Initial Calibration
Integrator: ChemStation

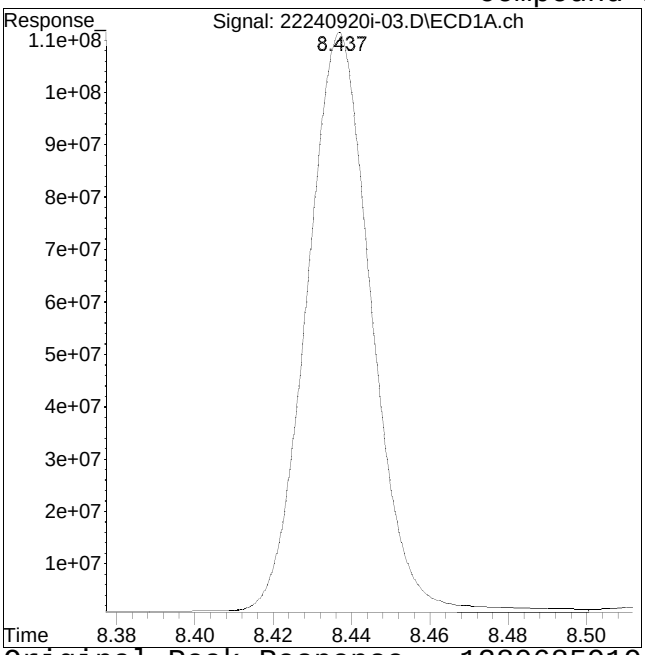
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

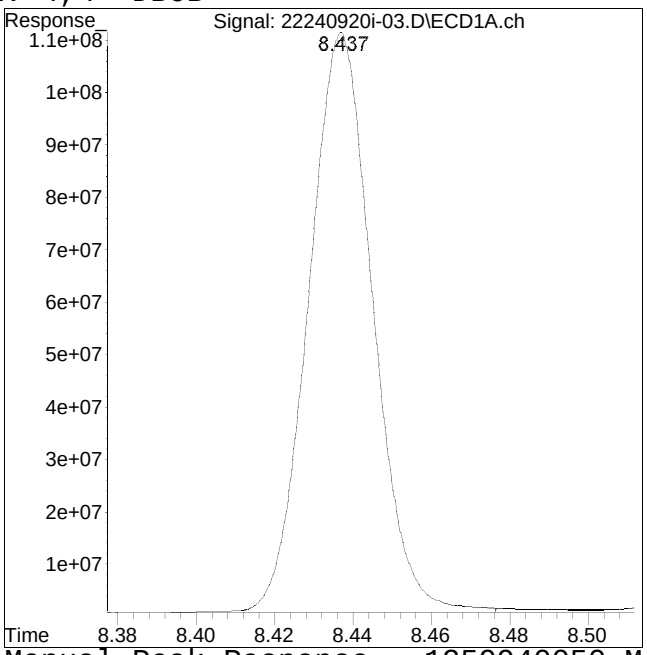


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #1: 4,4'-DBOB



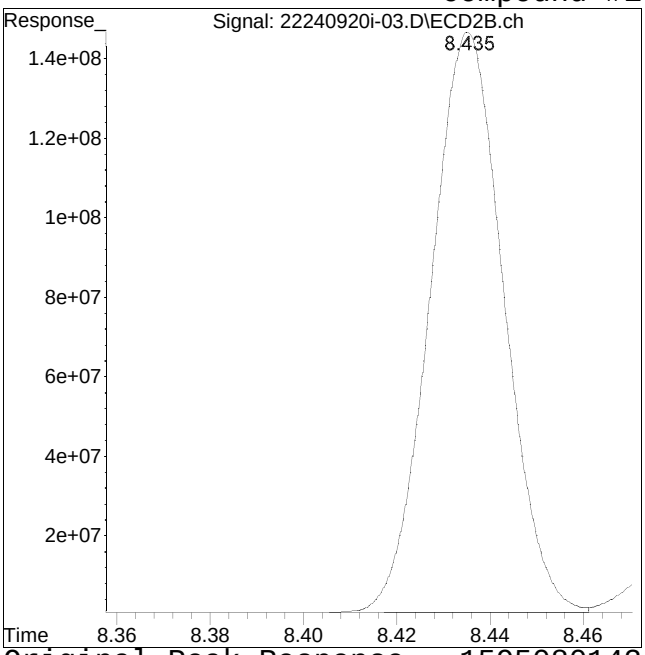


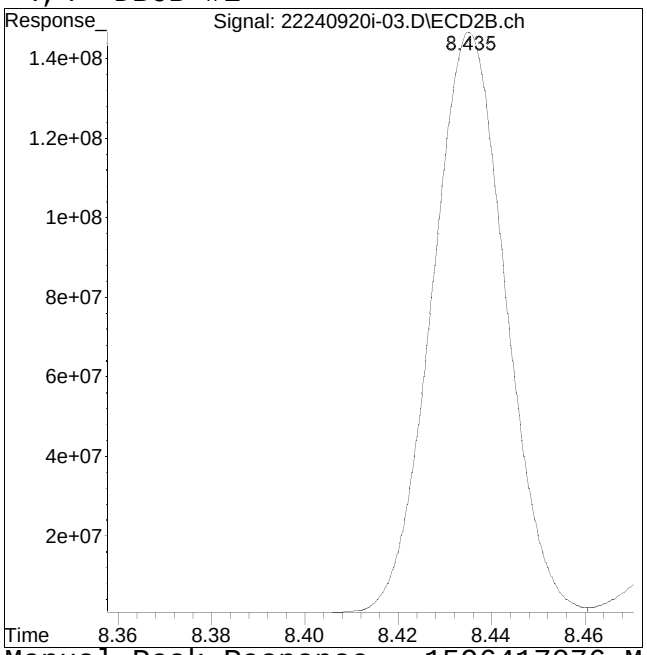
Original Peak Response = 1280685919 Manual Peak Response = 1259940050 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #14: 4,4'-DBOB #2



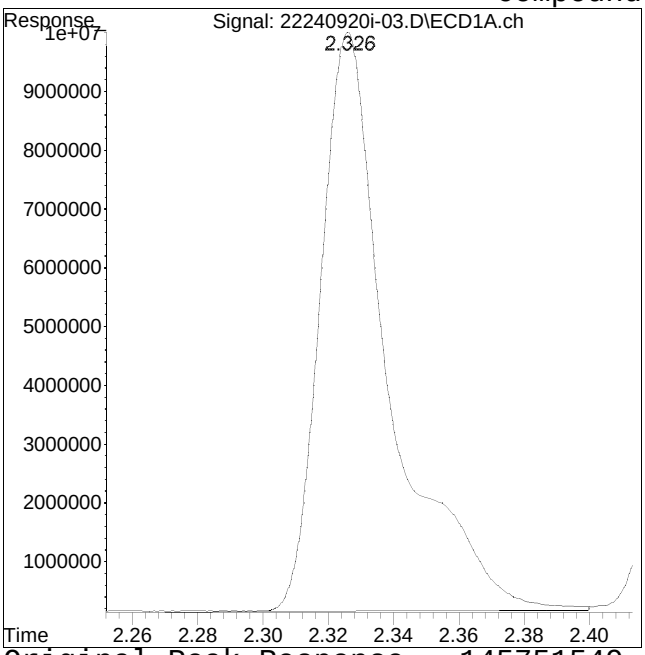


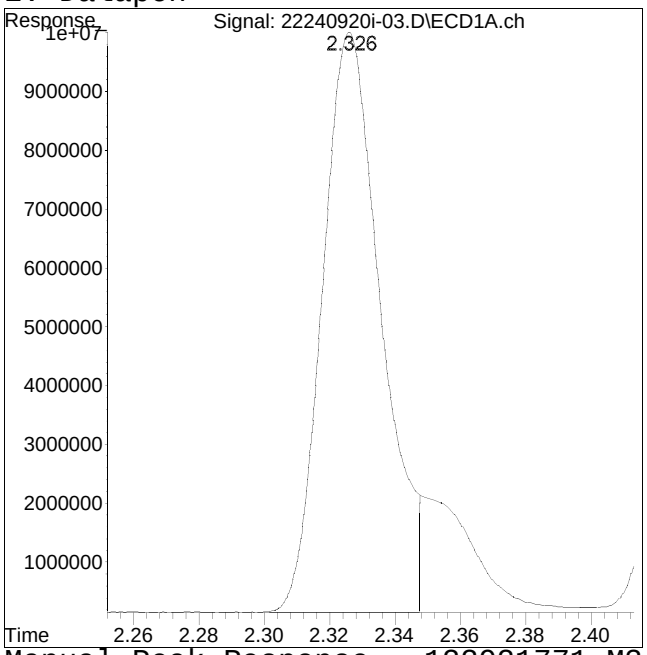
Original Peak Response = 1595080143 Manual Peak Response = 1596417076 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #2: Dalapon



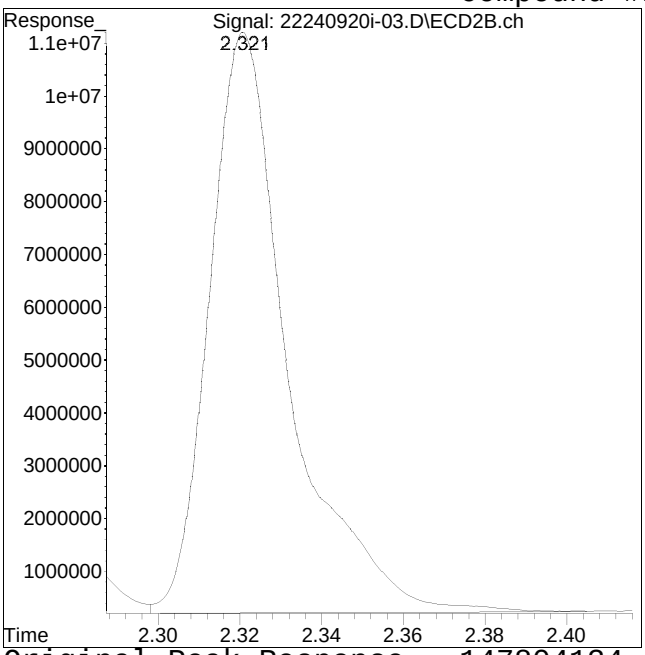


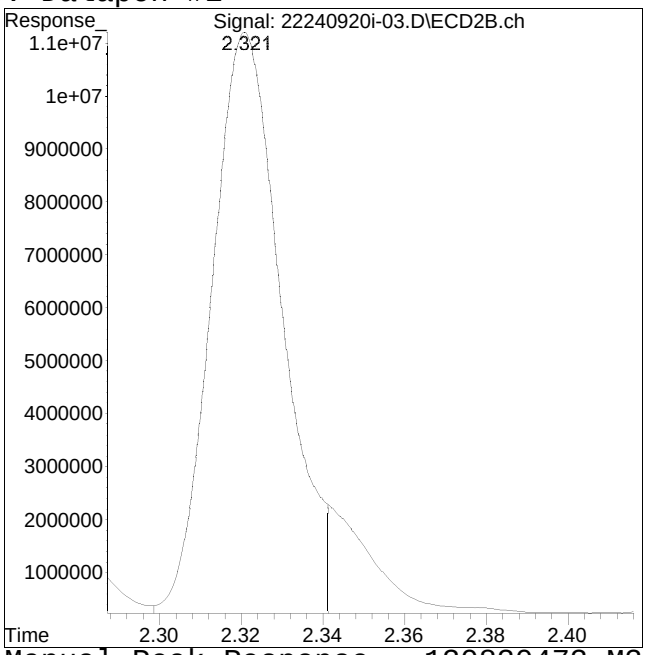
Original Peak Response = 145751549 Manual Peak Response = 122921771 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #15: Dalapon #2



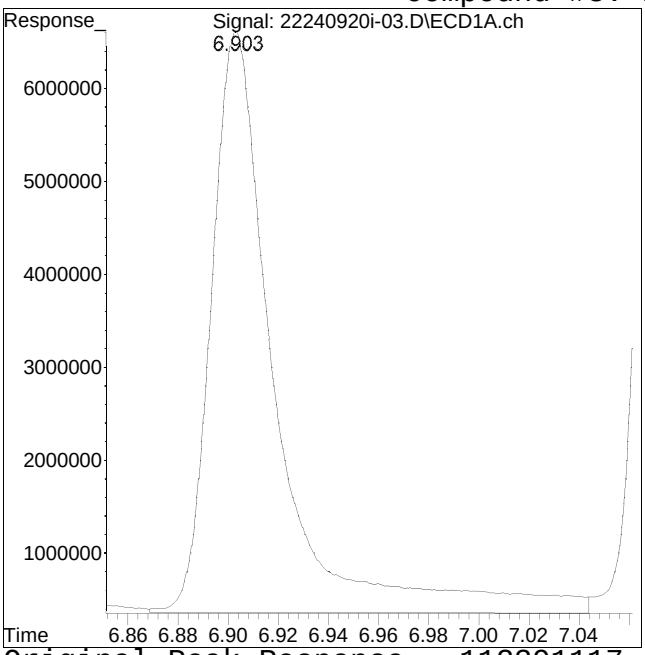


Original Peak Response = 147804134 Manual Peak Response = 130830473 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

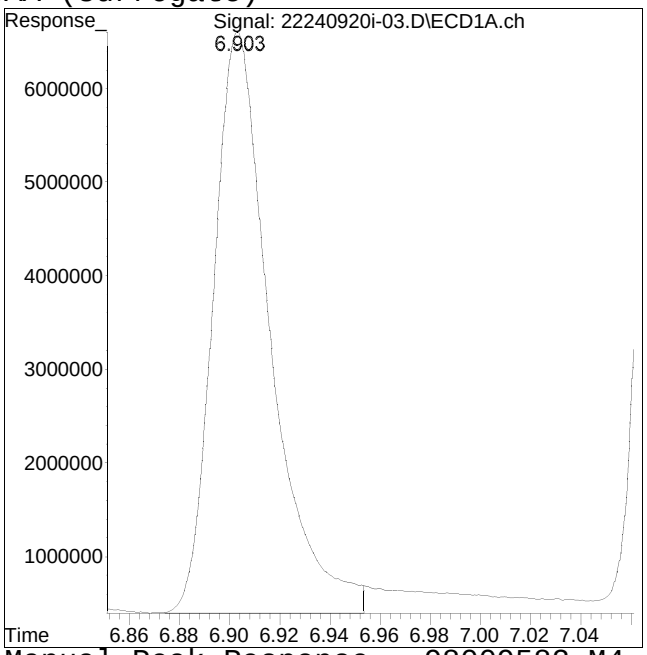
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #3: DCAA (surrogate)



Original Peak Response = 112391117



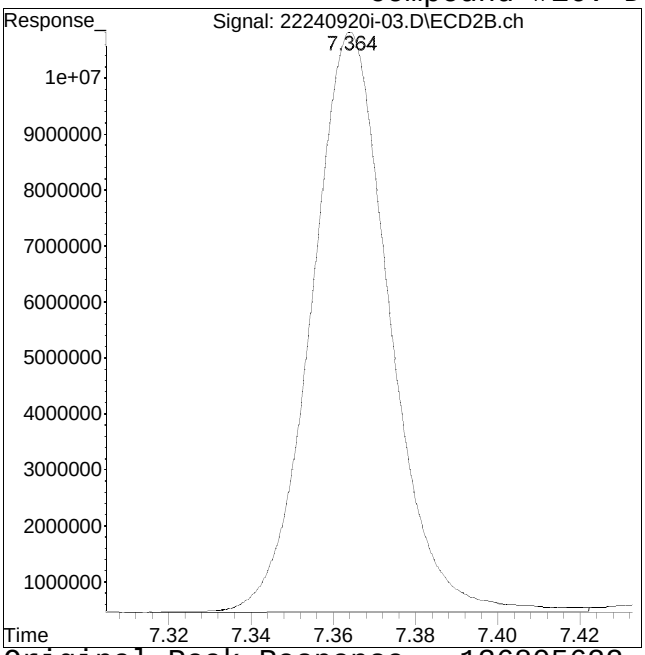
Manual Peak Response = 98009582 M4

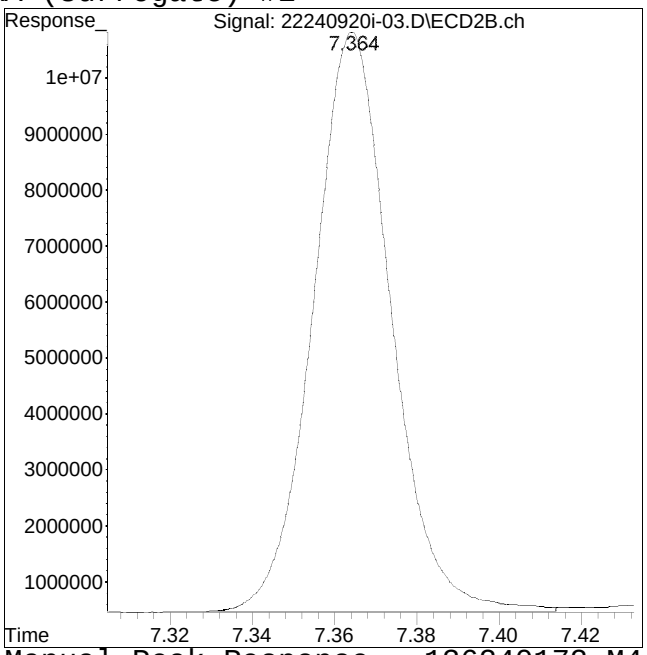
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #16: DCAA (surrogate) #2



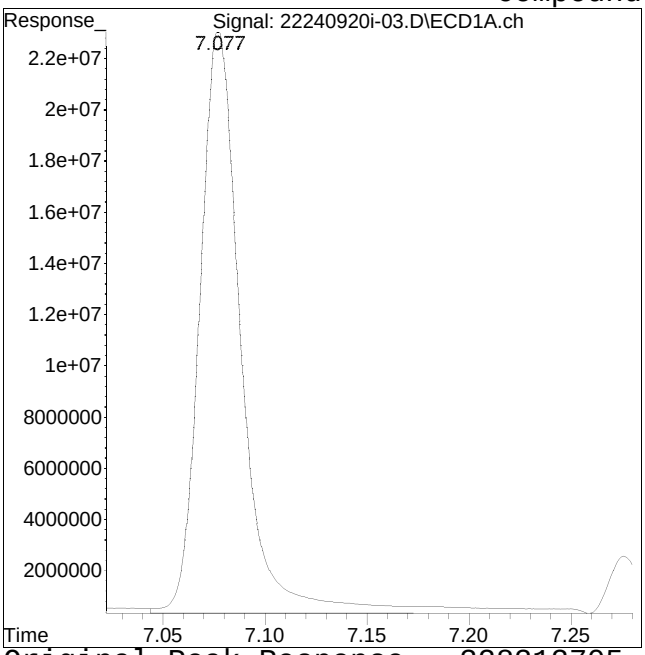


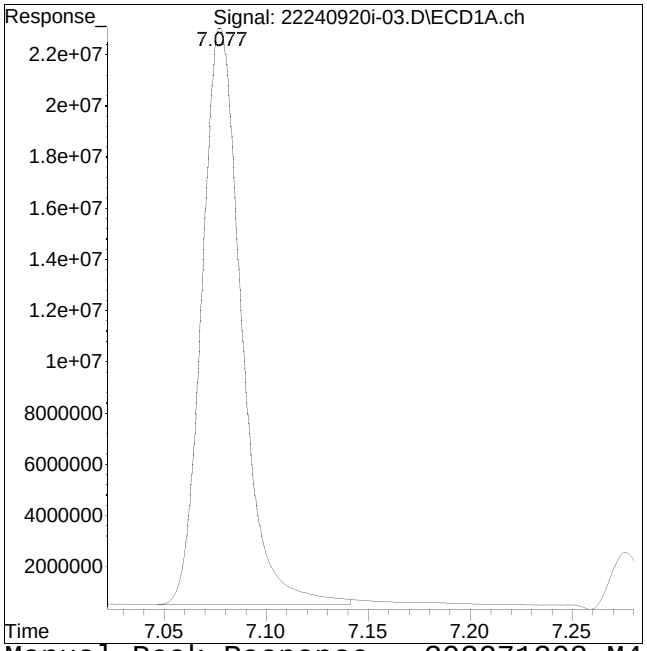
Original Peak Response = 136805622 Manual Peak Response = 136240172 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #4: Dicamba



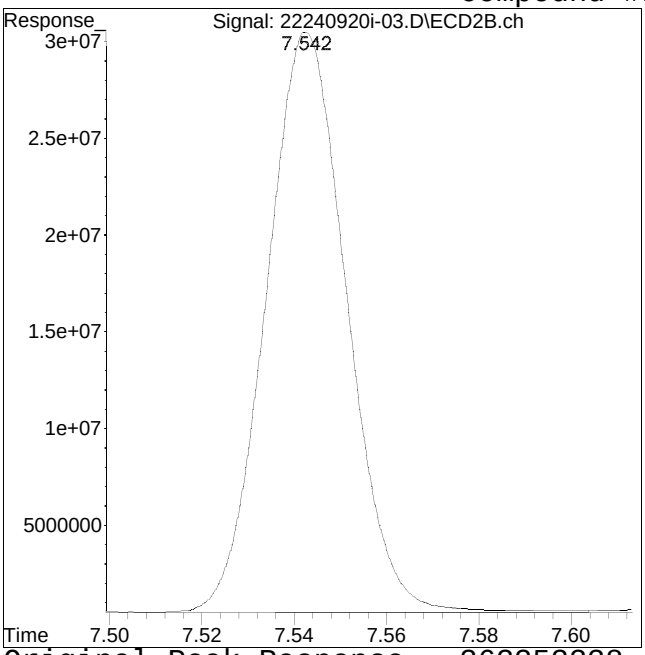


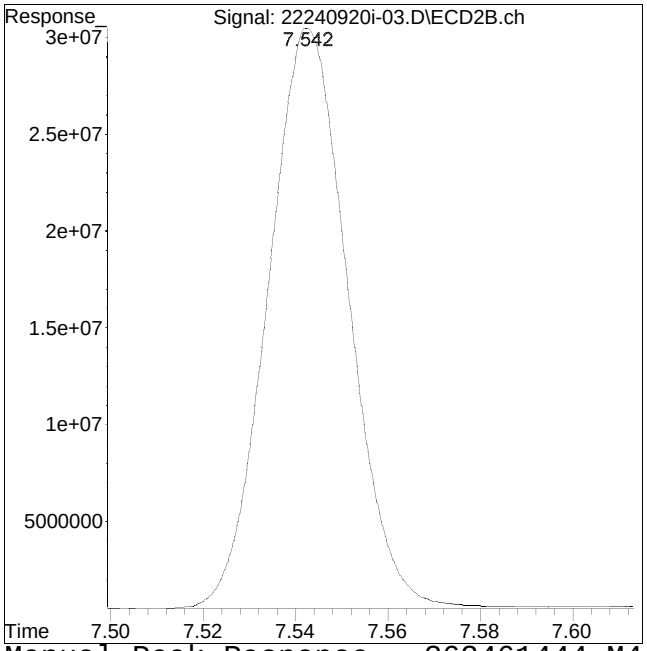
Original Peak Response = 328312705 Manual Peak Response = 303271208 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #17: Dicamba #2



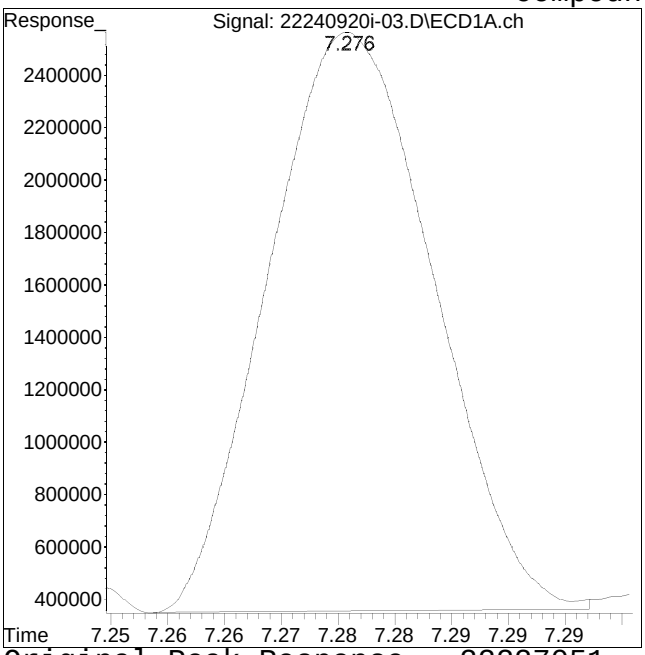


Original Peak Response = 363353338 Manual Peak Response = 362461444 M4
M4 = Poor automated baseline construction.

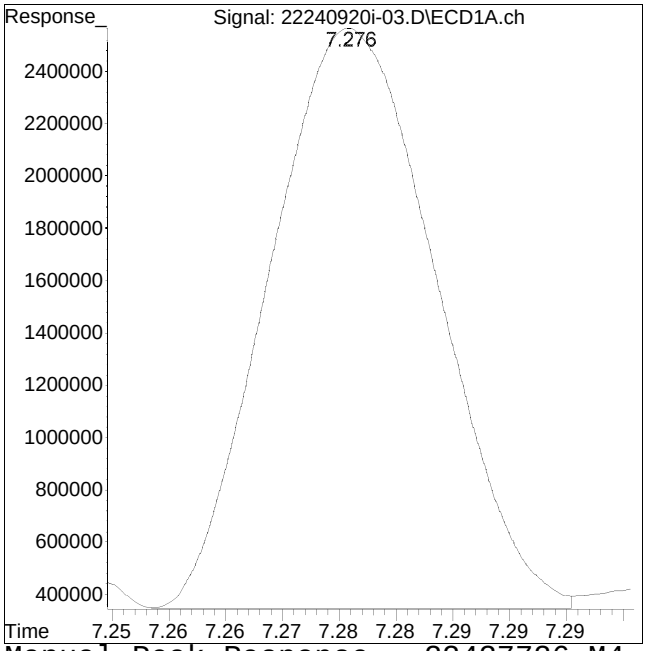
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #5: MCPP



Original Peak Response = 22227051



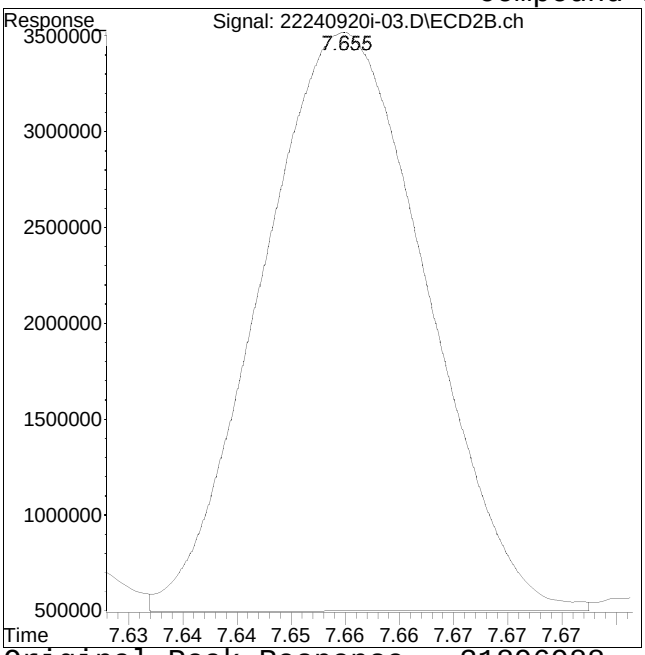
Manual Peak Response = 22437726 M4

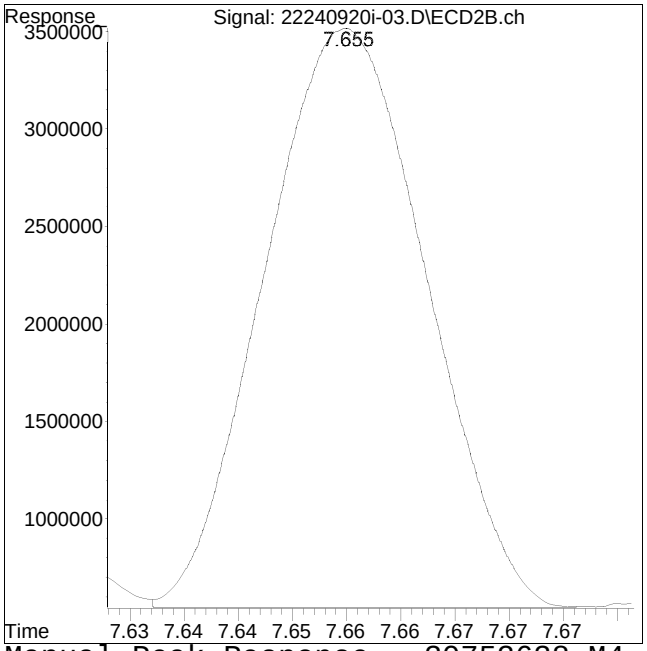
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #18: MCPP #2



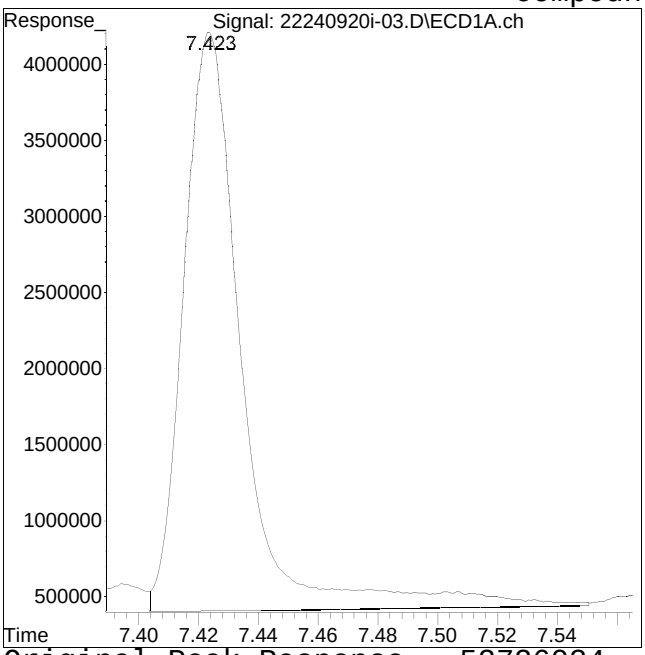


Original Peak Response = 31896988 Manual Peak Response = 30753638 M4
M4 = Poor automated baseline construction.

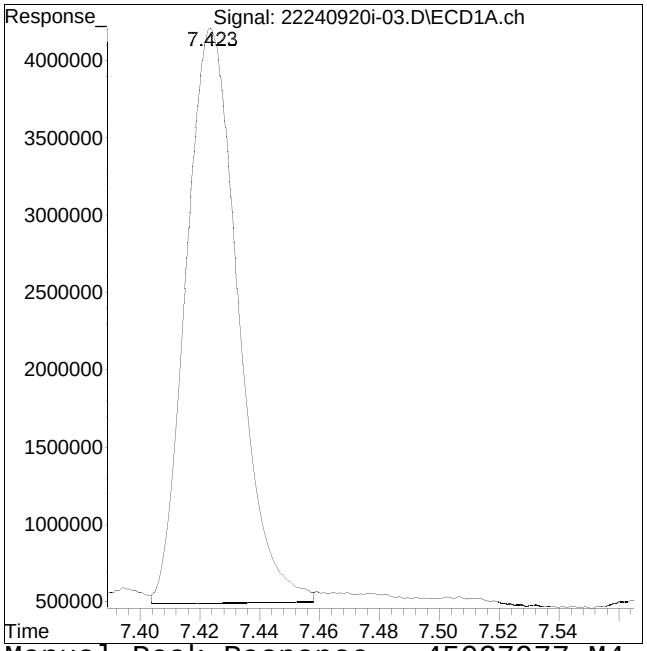
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #6: MCPA



Original Peak Response = 52726034



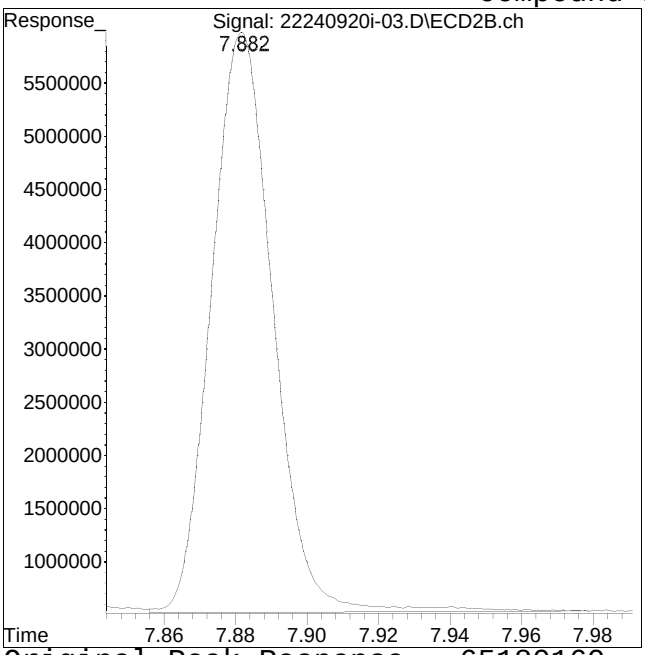
Manual Peak Response = 45037977 M4

M4 = Poor automated baseline construction.

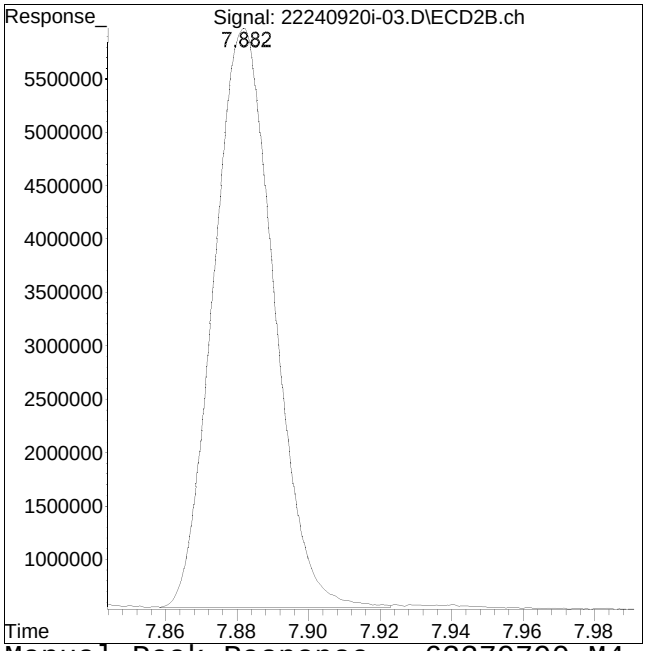
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #19: MCPA #2



Original Peak Response = 65180160



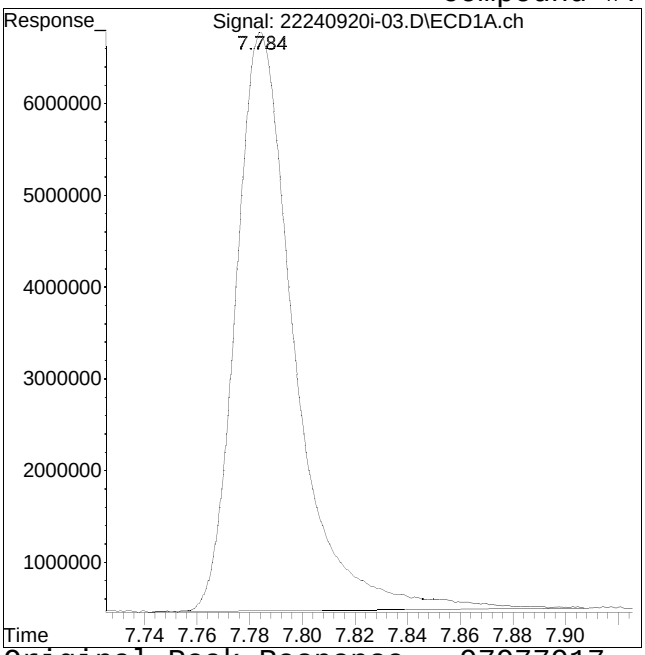
Manual Peak Response = 63370790 M4

M4 = Poor automated baseline construction.

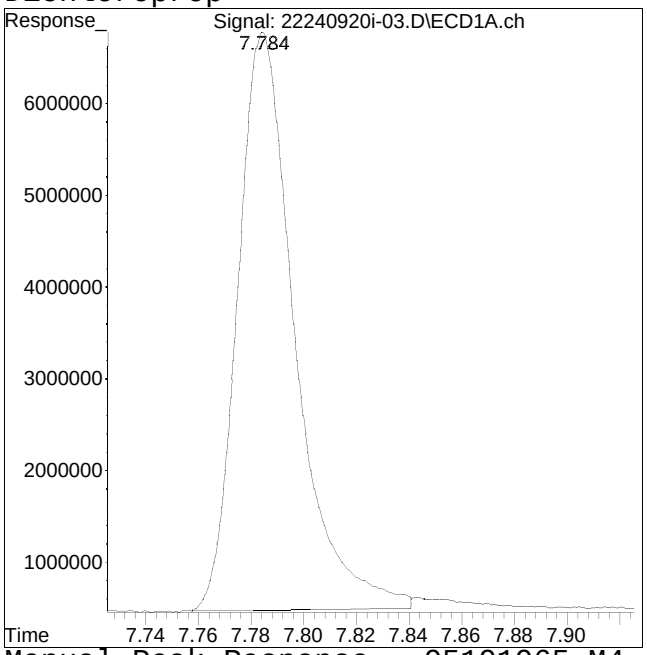
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #7: Dichloroprop



Original Peak Response = 97977917



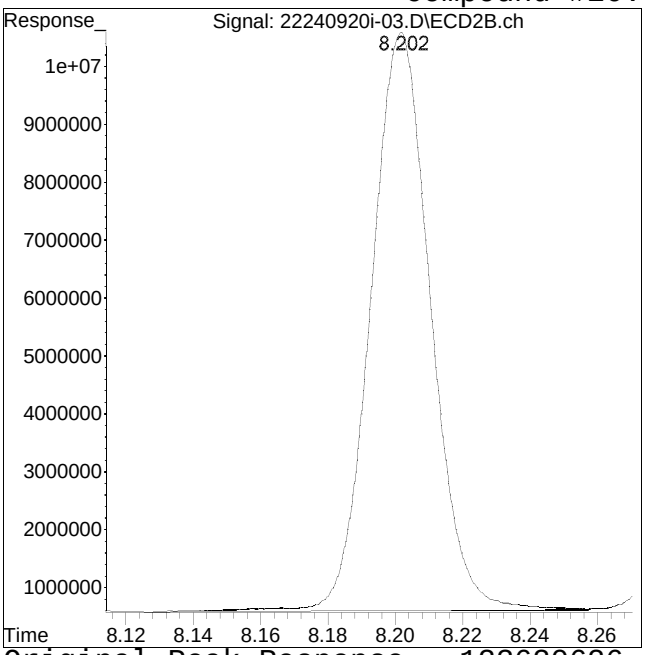
Manual Peak Response = 95191965 M4

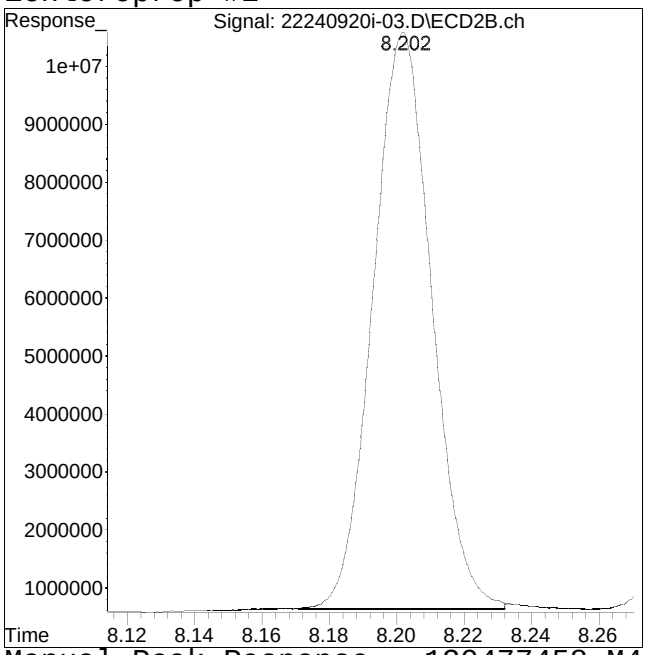
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #20: Dichloroprop #2



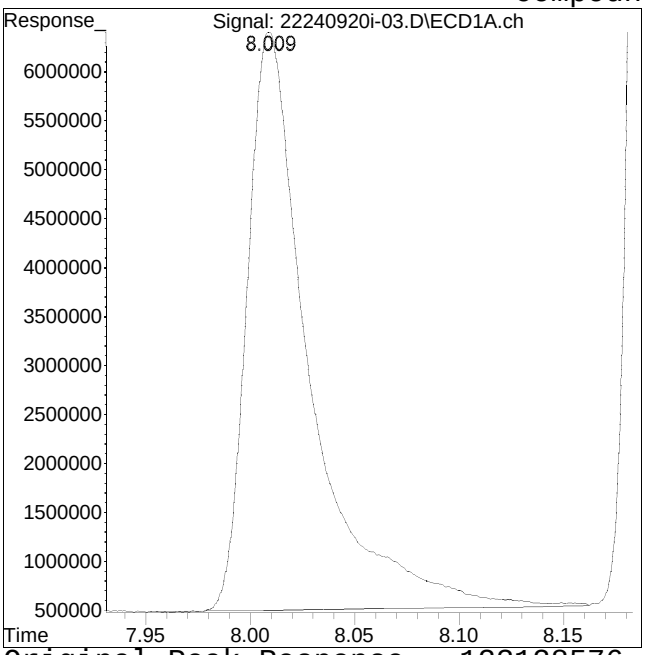


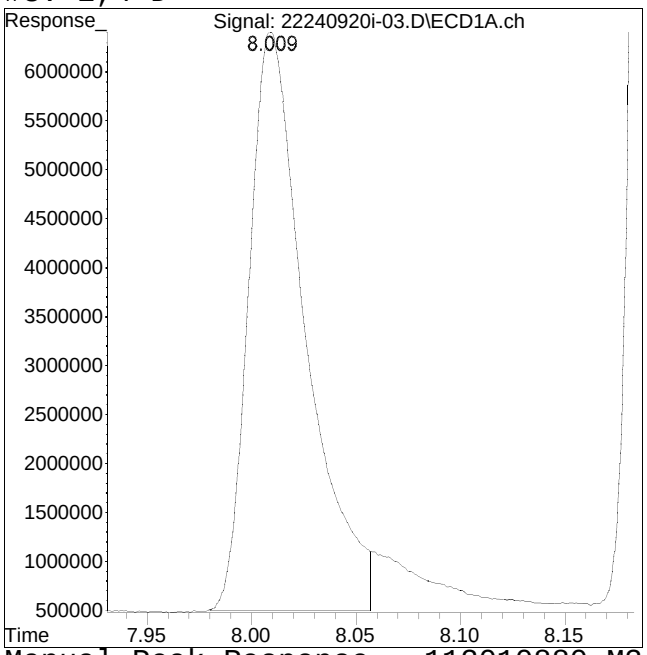
Original Peak Response = 123620626 Manual Peak Response = 120477458 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #8: 2,4-D



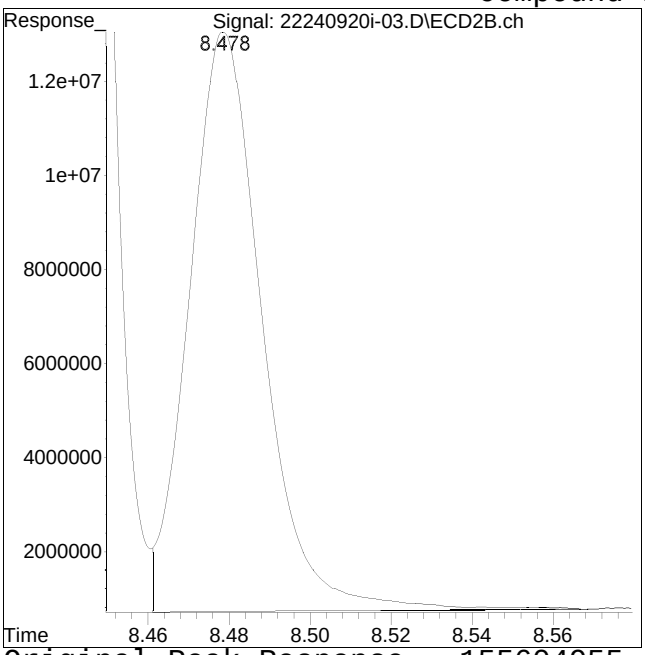


Original Peak Response = 123128576 Manual Peak Response = 112010880 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

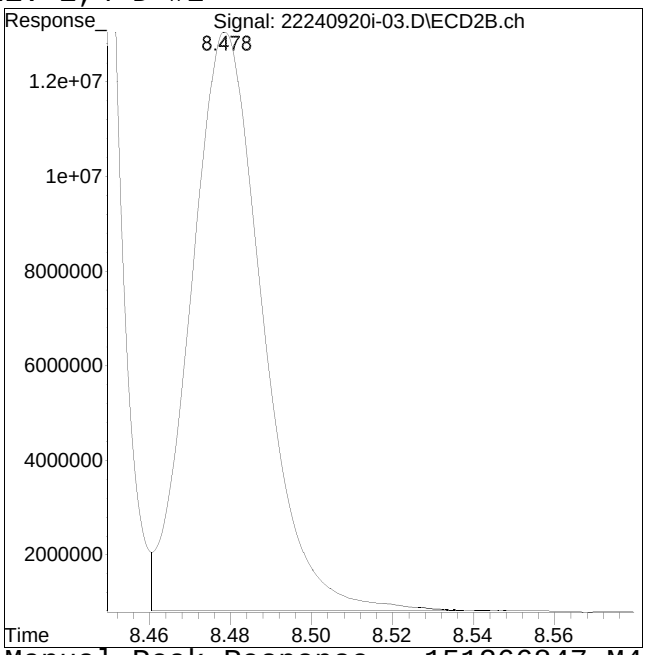
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #21: 2,4-D #2



Original Peak Response = 155604955

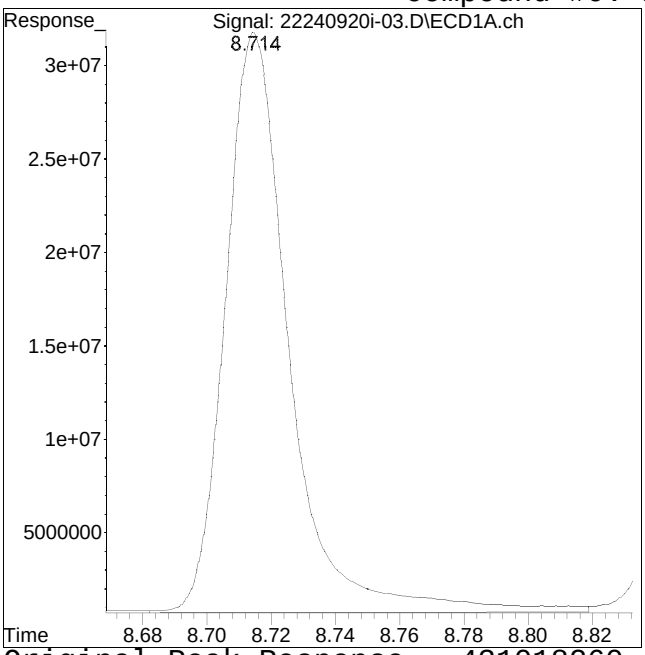


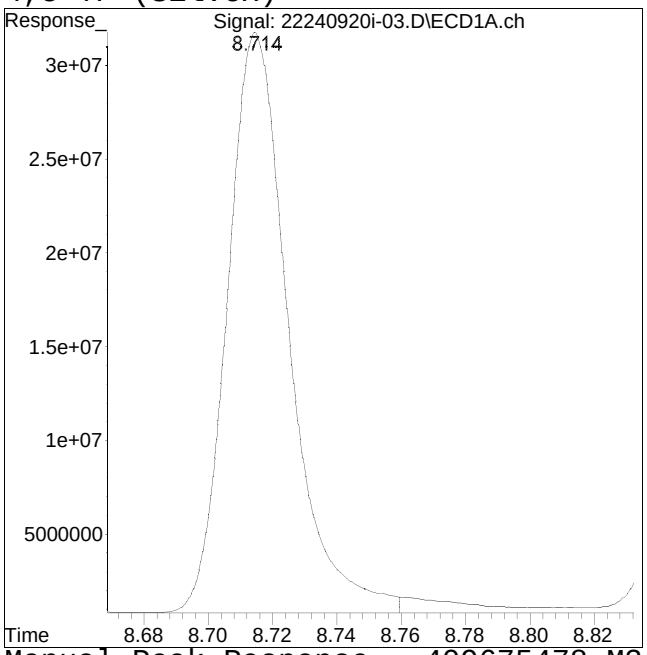
Manual Peak Response = 151266847 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #9: 2,4,5-TP (Silvex)



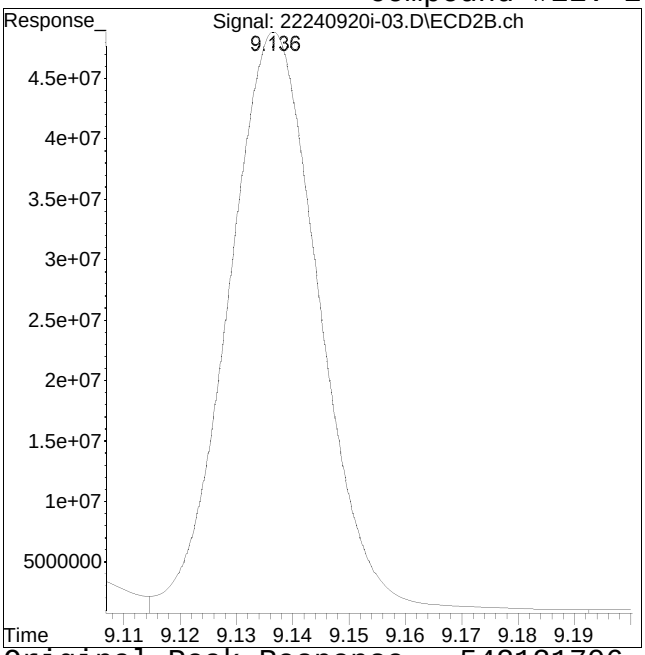


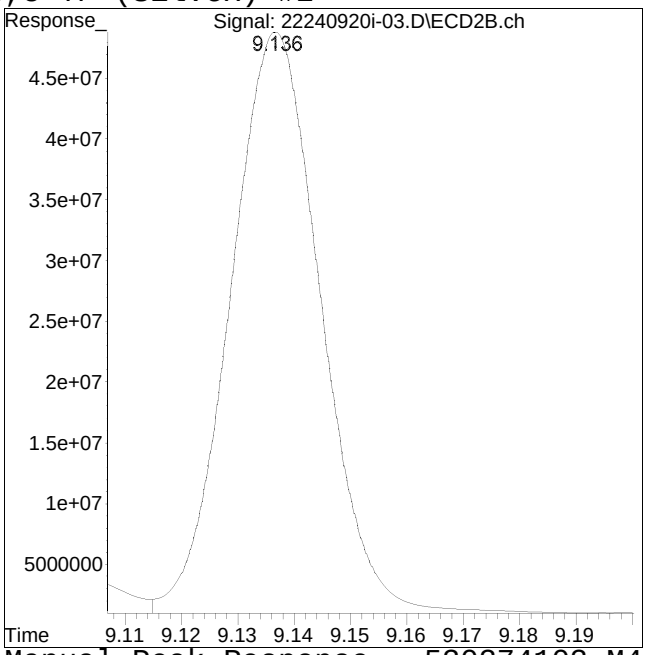
Original Peak Response = 431018260 Manual Peak Response = 409675478 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #22: 2,4,5-TP (Silvex) #2



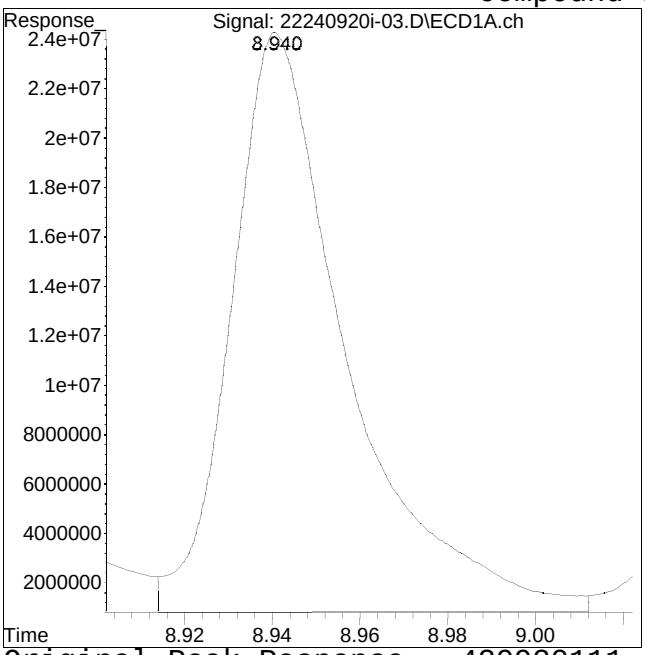


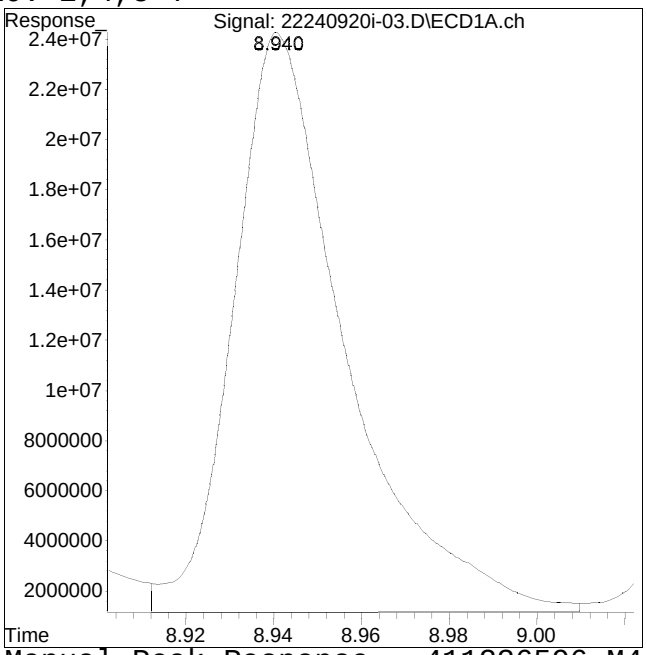
Original Peak Response = 542121706 Manual Peak Response = 530374103 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #10: 2,4,5-T



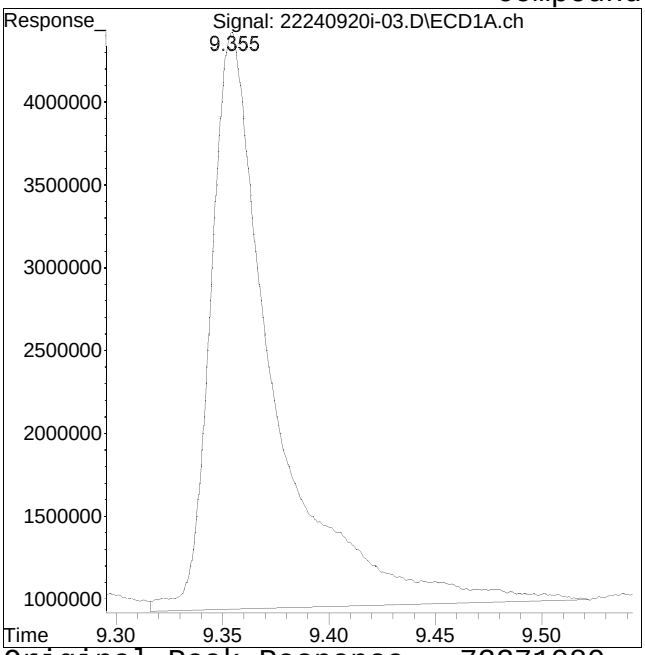


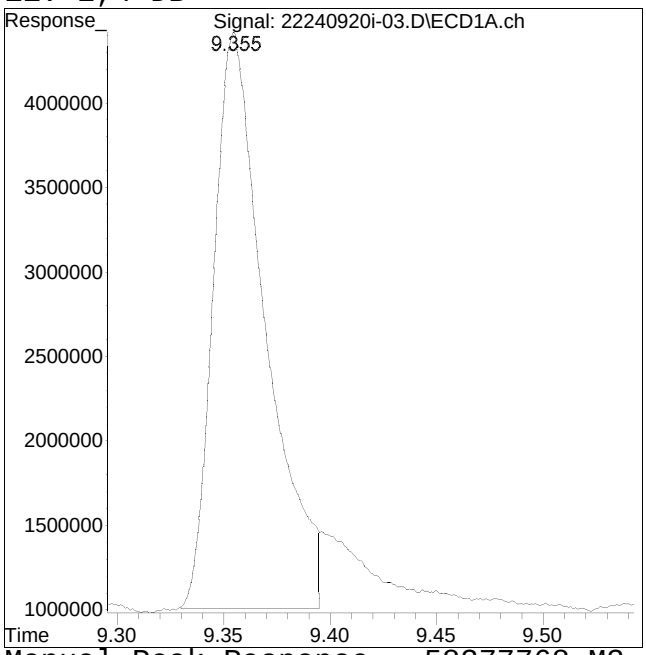
Original Peak Response = 429920111 Manual Peak Response = 411236596 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #11: 2,4-DB



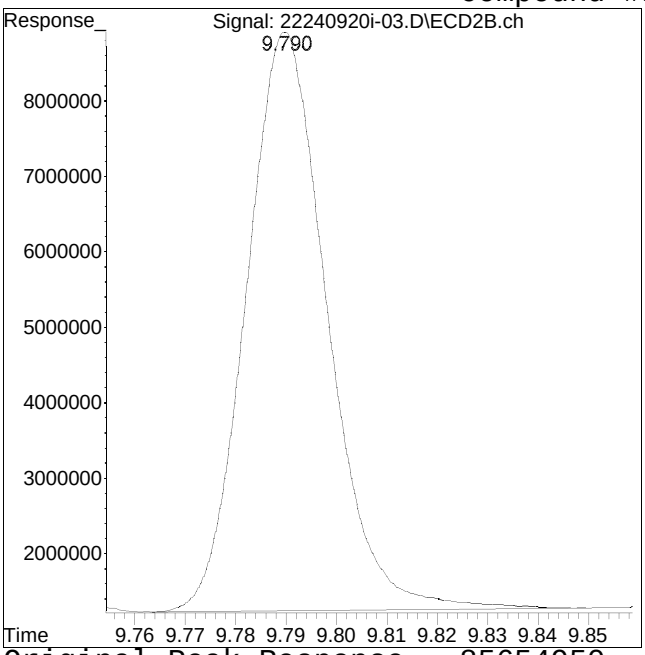


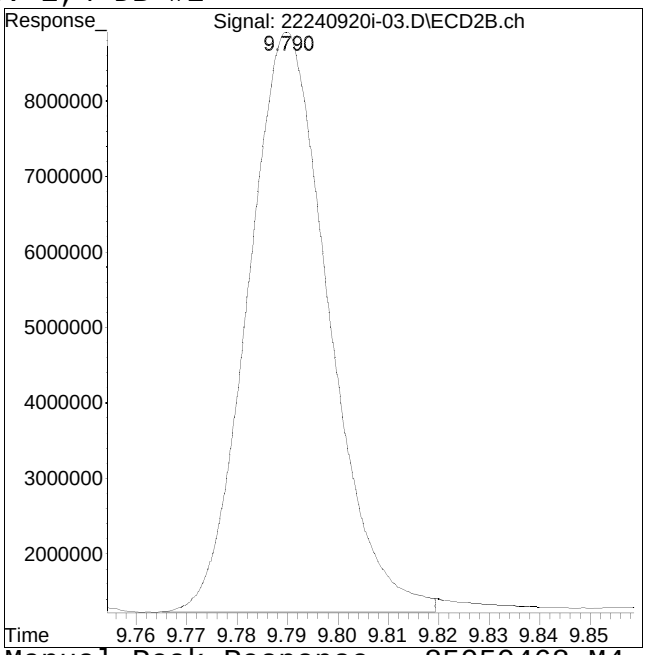
Original Peak Response = 73371080 Manual Peak Response = 58377768 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #24: 2,4-DB #2



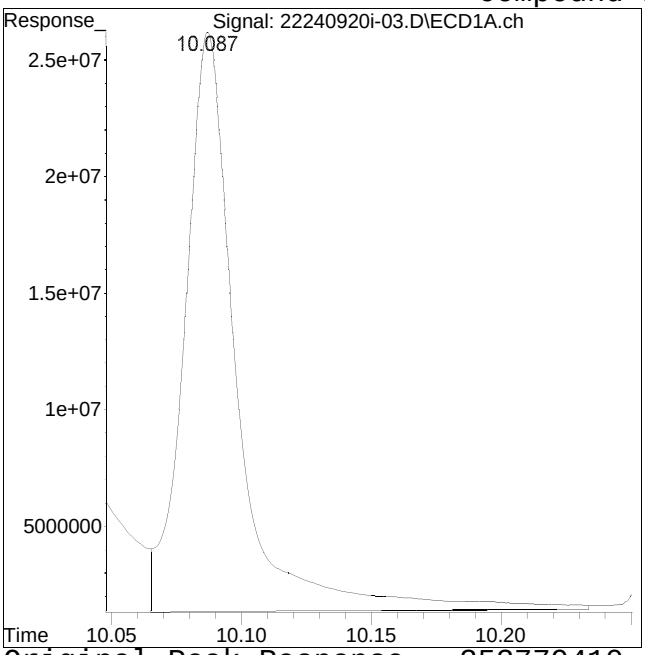


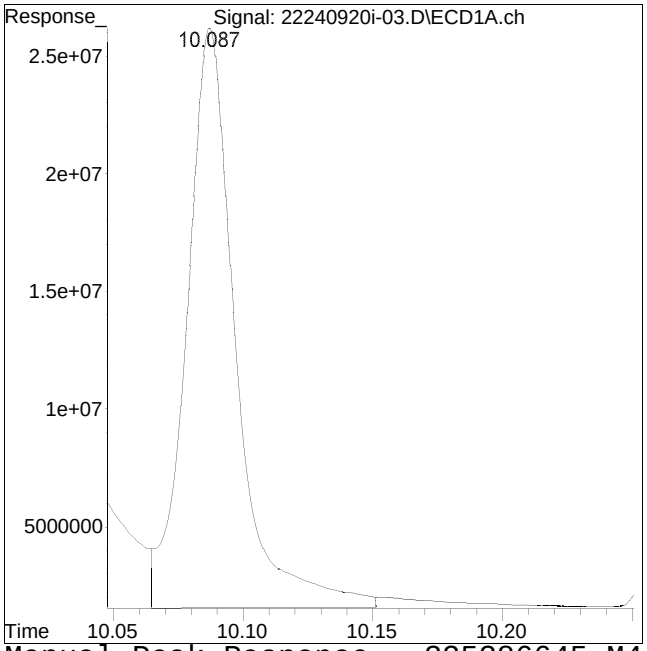
Original Peak Response = 85654950 Manual Peak Response = 85050468 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #12: Dinoseb



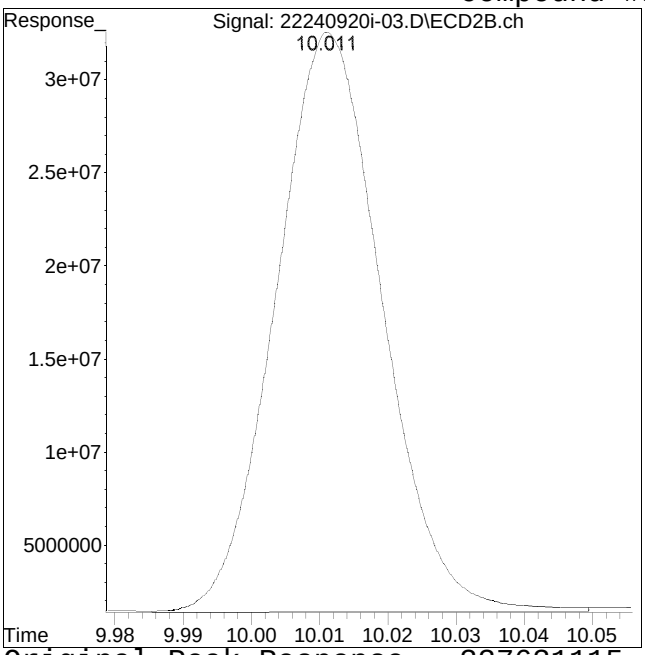


Original Peak Response = 353779410 Manual Peak Response = 325386645 M4
M4 = Poor automated baseline construction.

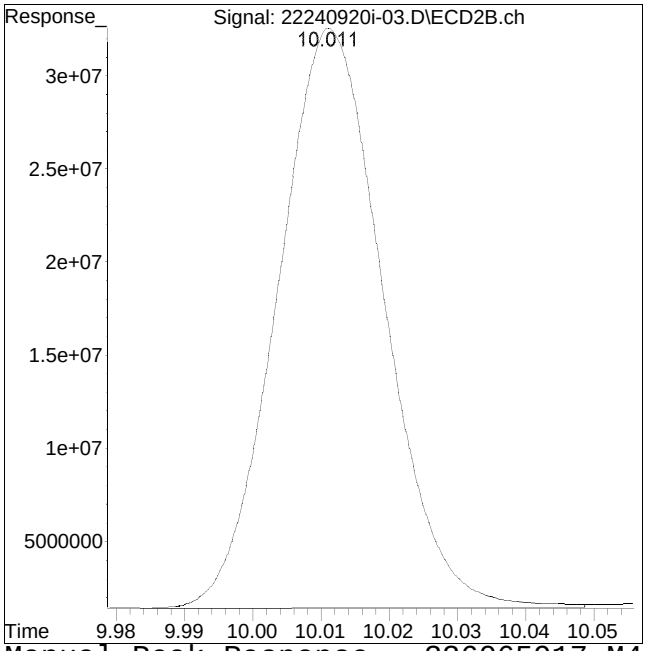
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #25: Dinoseb #2



Original Peak Response = 337631115



Manual Peak Response = 336065917 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:20 pm
Operator : pest22:akm
Sample : il3herb,42e,,pp 11631 L0.2/20
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 07:00:30 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 07:00:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.436	8.435	1257.9E6	1593.0E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.900	7.364	189.0E6	236.7E6	0.188M4	0.188M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	37.60%	37.60%
		Target Compounds						
2)	t	Dalapon	2.326	2.321	232.1E6	262.8E6	0.182M3	0.182M4
4)	t	Dicamba	7.076	7.542	569.2E6	667.7E6	0.188M4	0.188M4
5)	t	MCPP	7.276	7.655	48106360	64105928	18.800M4	18.800M4
6)	t	MCPA	7.422	7.881	89263411	117.2E6	18.600M3	18.600M4
7)	t	Dichloroprop	7.782	8.201	179.3E6	218.4E6	0.188M4	0.188M4
8)	t	2,4-D	8.004	8.478	211.2E6	277.3E6	0.188M3	0.188M4
9)	t	2,4,5-TP (Si	8.713	9.137	795.3E6	993.0E6	0.190M4	0.190M4
10)	t	2,4,5-T	8.941	9.428	800.2E6	967.1E6	0.190M3	0.190
11)	t	2,4-DB	9.351	9.790	119.1E6	160.5E6	0.192M4	0.192
12)	t	Dinoseb	10.087	10.012	607.8E6	626.1E6	0.204M4	0.190M4
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:20 pm
Operator : pest22:akm
Sample : il3herb,42e,,pp 11631 L0.2/20
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 07:00:30 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 07:00:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

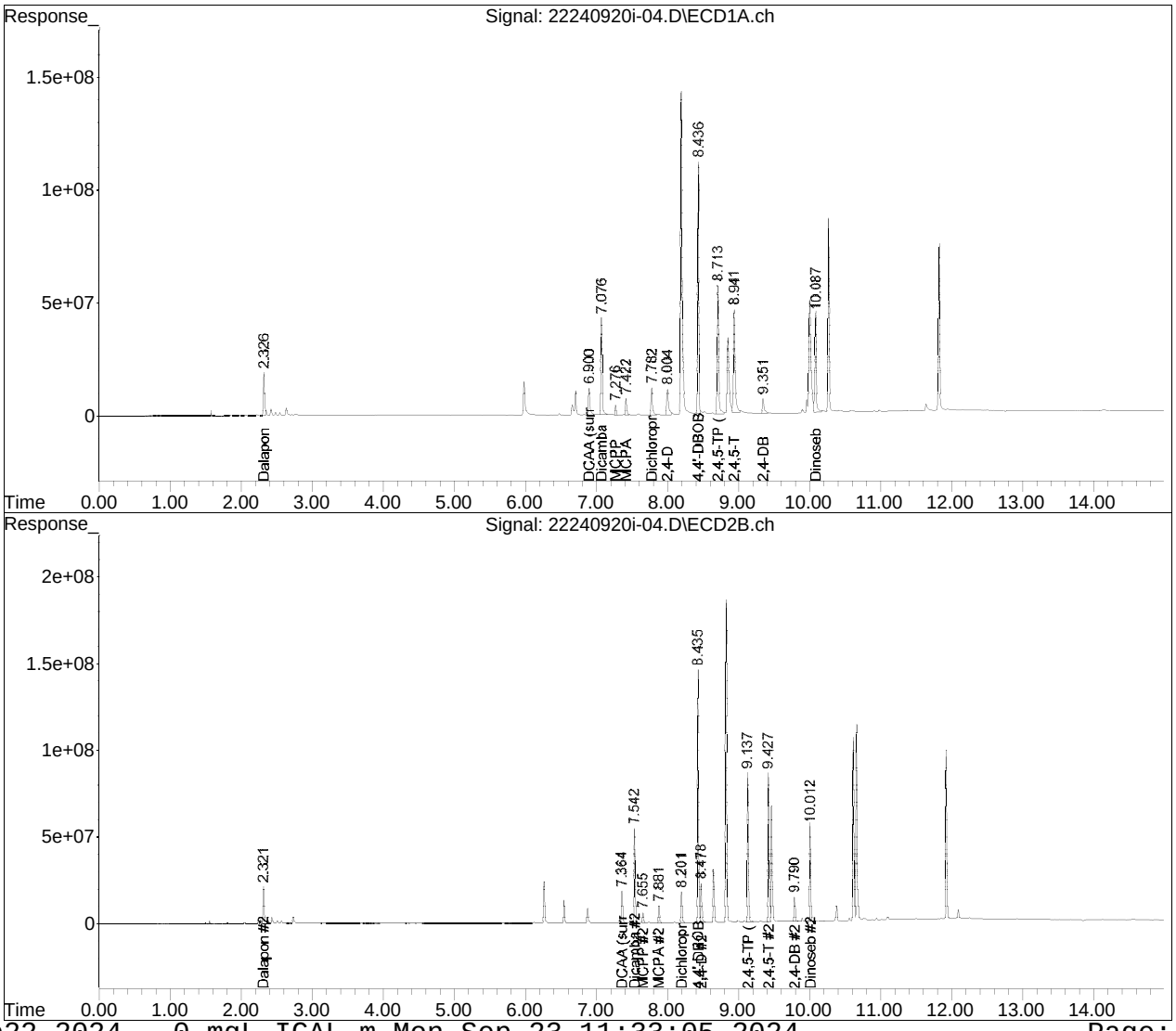
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:20 pm
Operator : pest22:akm
Sample : il3herb,42e,,pp 11631 L0.2/20
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 07:00:30 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 07:00:23 2024
Response via : Initial Calibration
Integrator: ChemStation

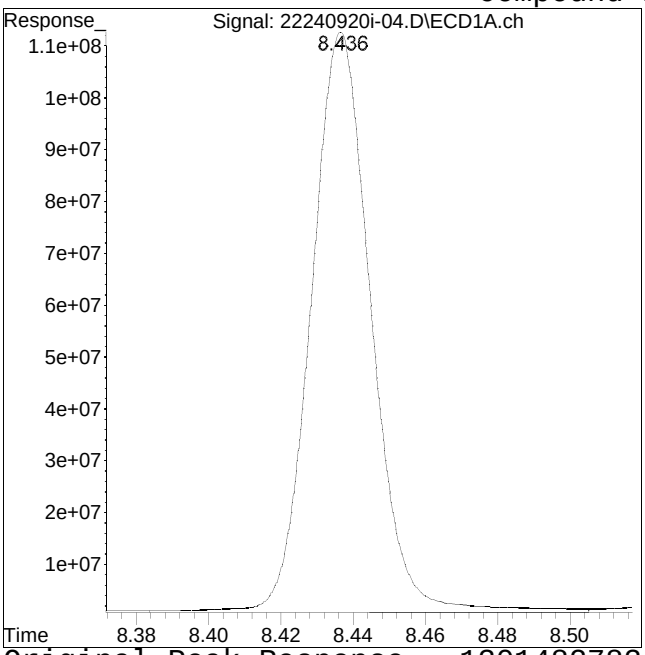
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

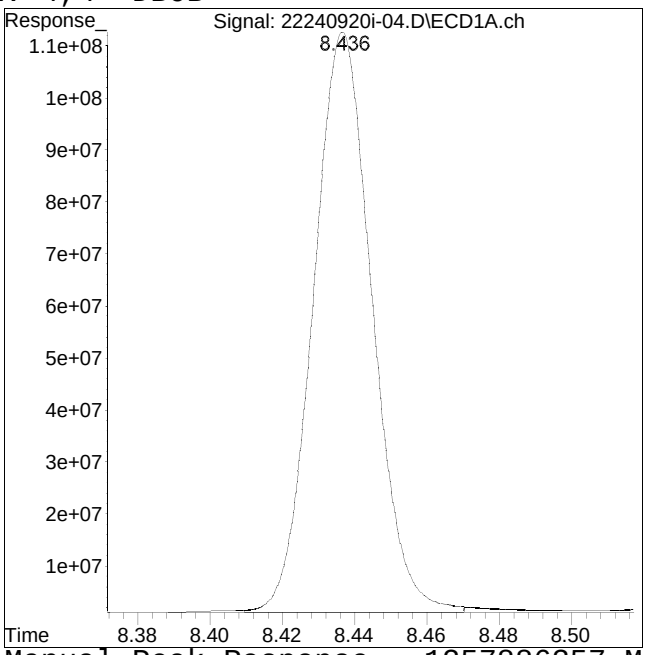


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #1: 4,4'-DBOB



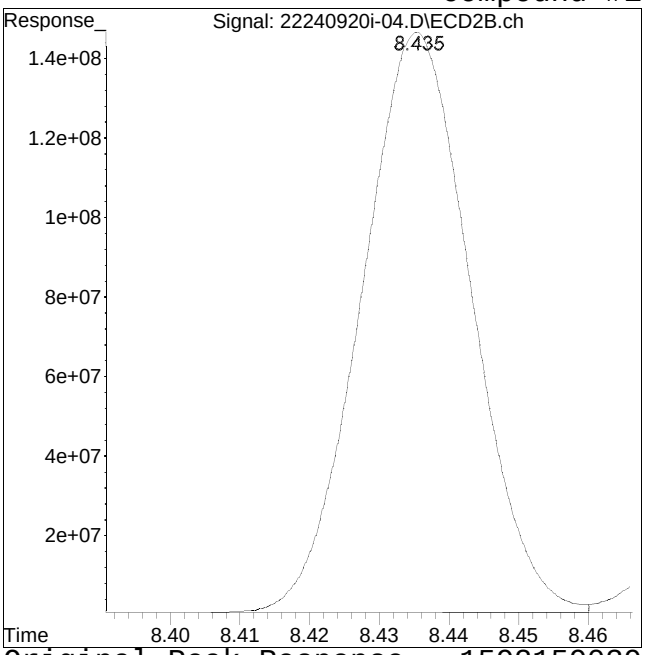


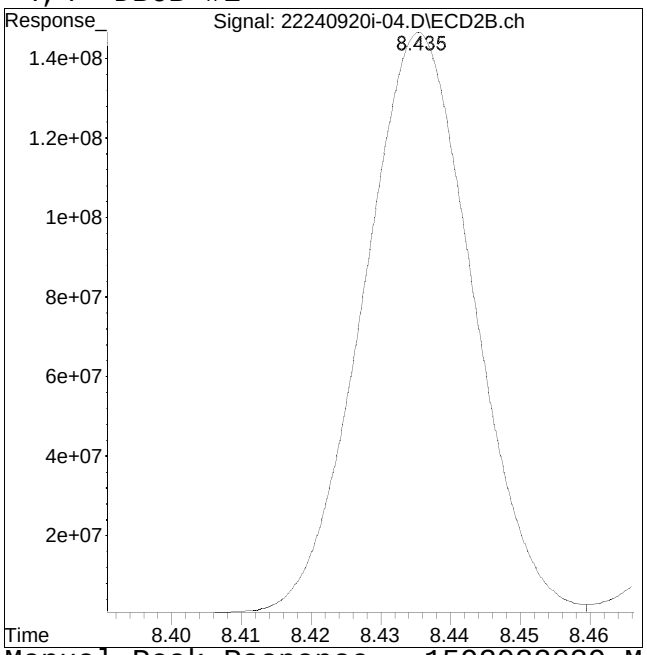
Original Peak Response = 1301482783 Manual Peak Response = 1257886357 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #14: 4,4'-DBOB #2



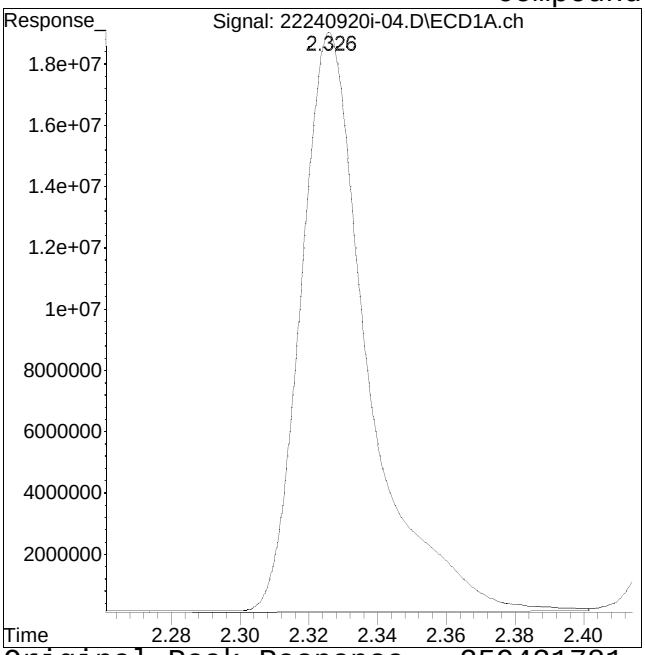


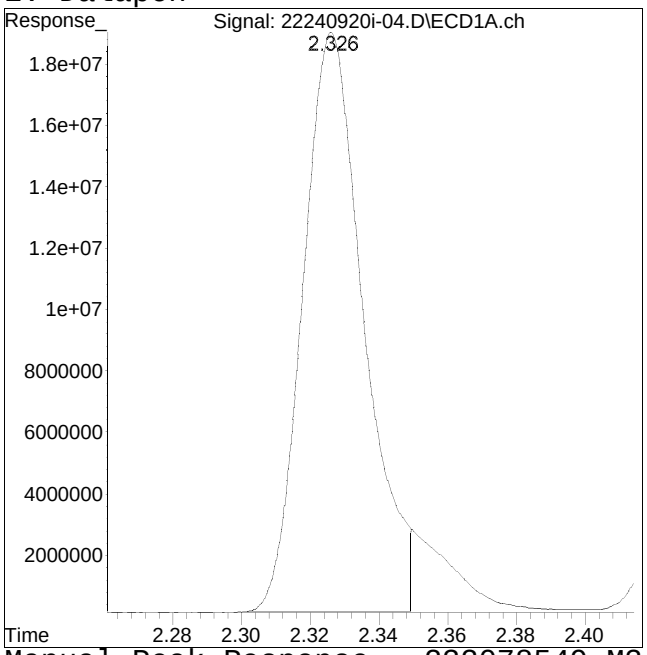
Original Peak Response = 1592159039 Manual Peak Response = 1593032039 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #2: Dalapon



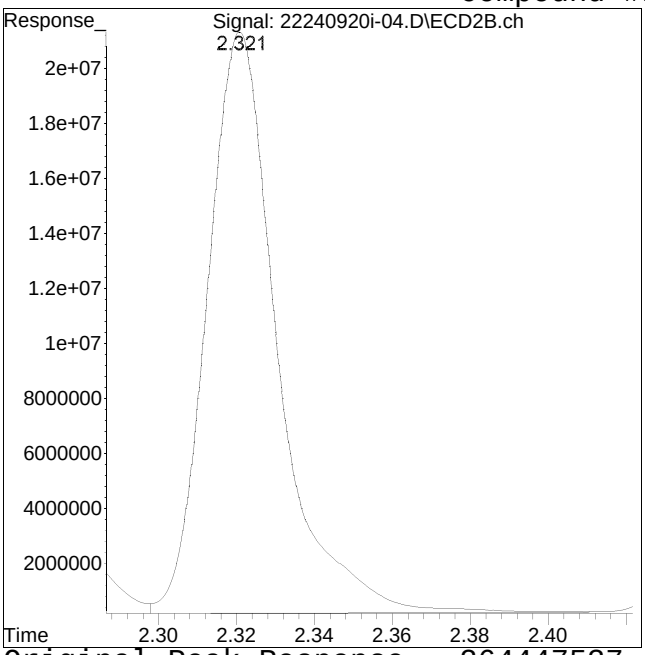


Original Peak Response = 259431781 Manual Peak Response = 232078549 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

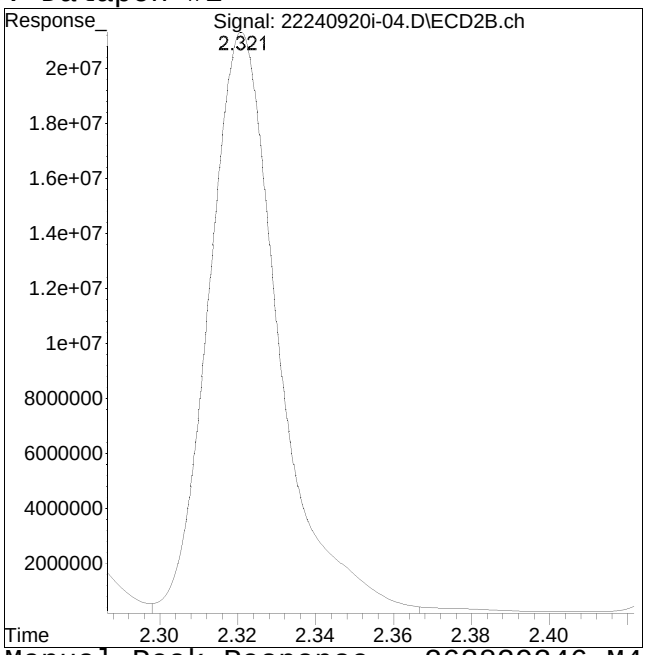
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #15: Dalapon #2



Original Peak Response = 264447537



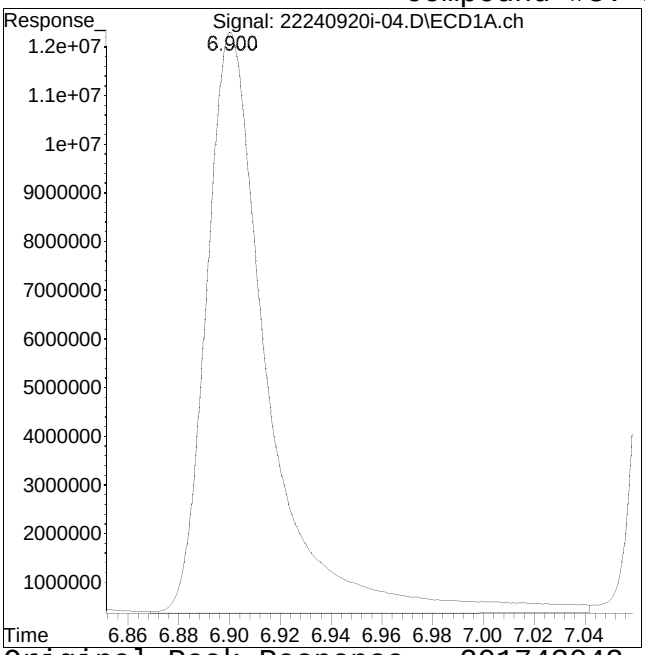
Manual Peak Response = 262829346 M4

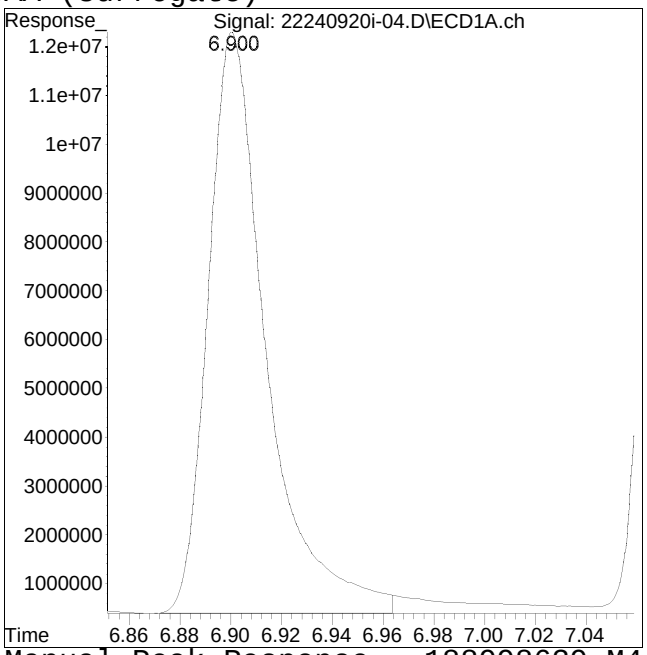
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #3: DCAA (surrogate)



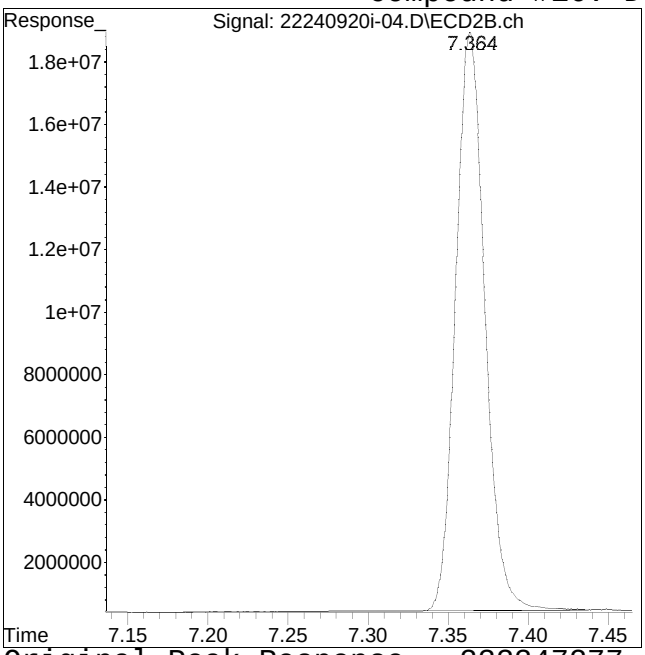


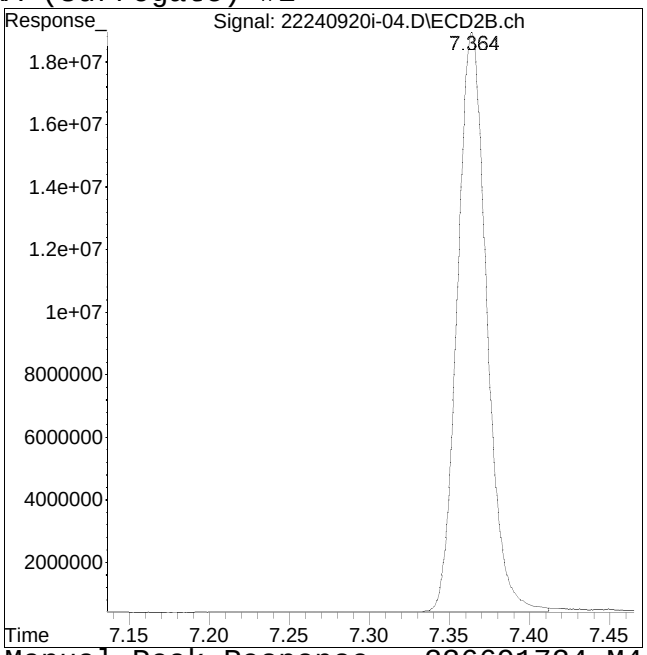
Original Peak Response = 201743043 Manual Peak Response = 188998639 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #16: DCAA (surrogate) #2



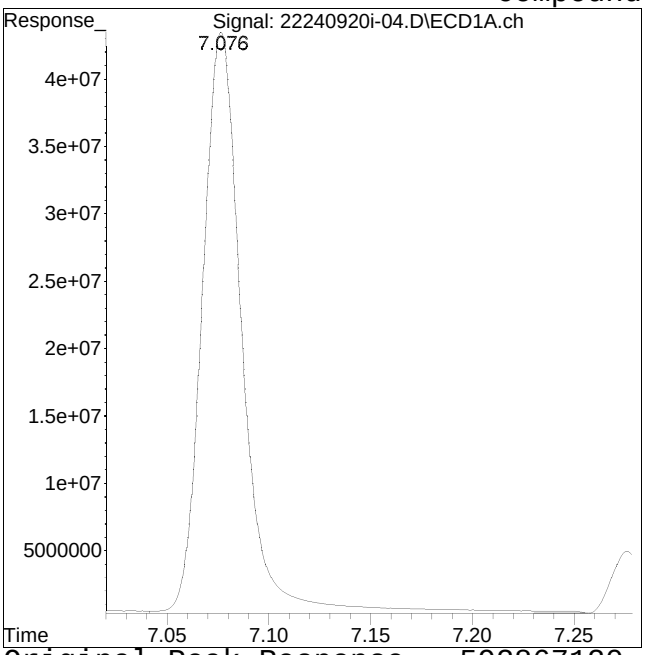


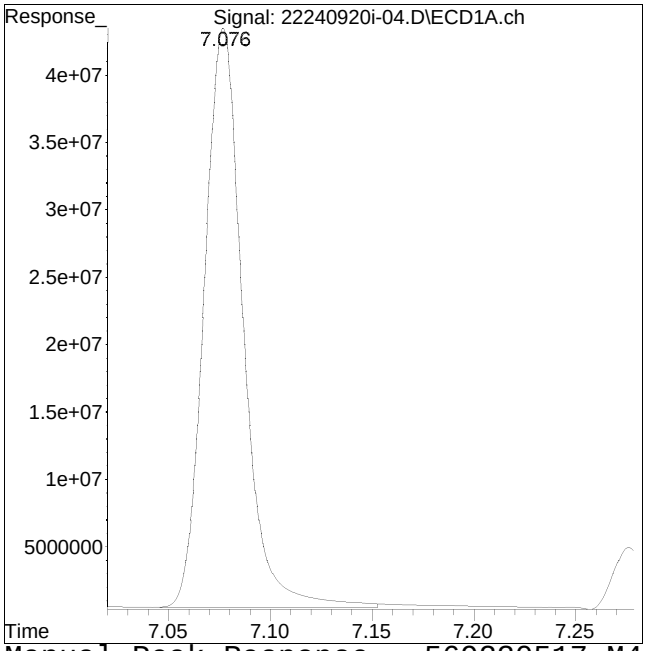
Original Peak Response = 233347277 Manual Peak Response = 236691724 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #4: Dicamba



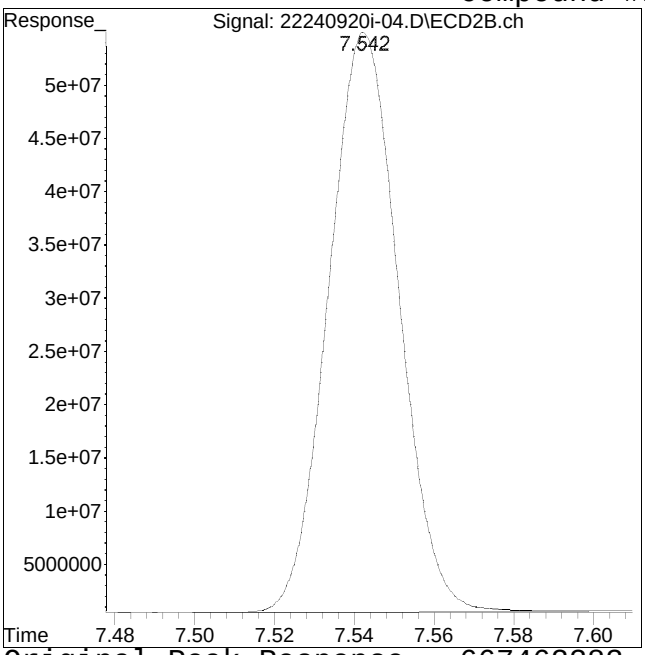


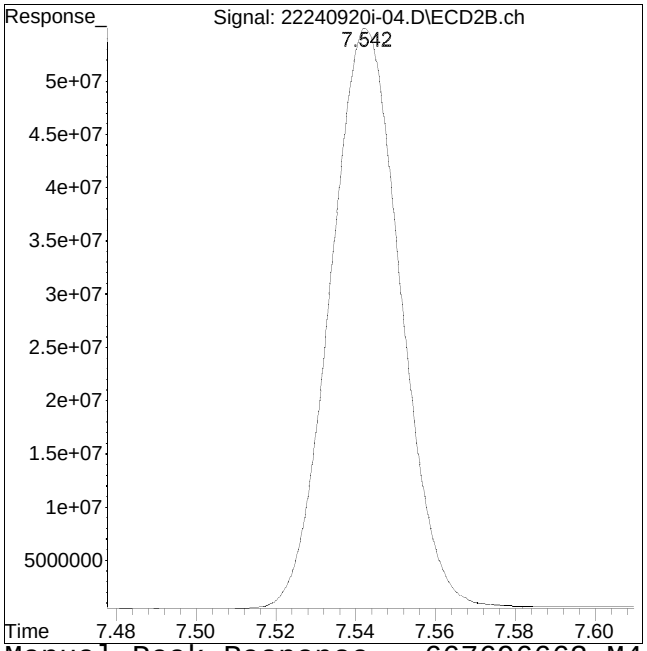
Original Peak Response = 592867120 Manual Peak Response = 569230517 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #17: Dicamba #2



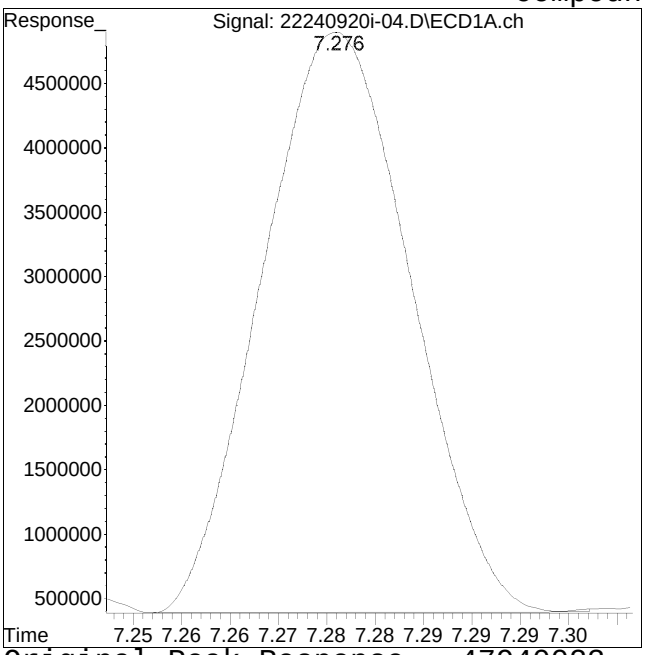


Original Peak Response = 667462383 Manual Peak Response = 667696663 M4
M4 = Poor automated baseline construction.

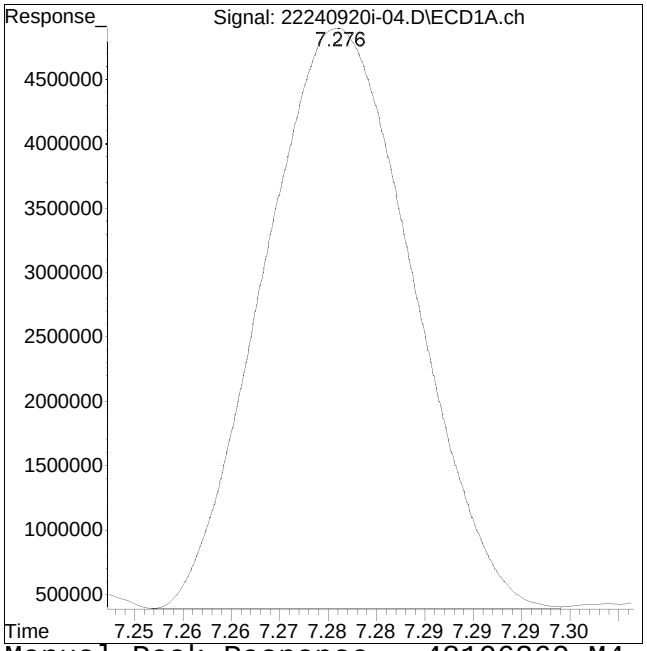
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #5: MCPP



Original Peak Response = 47940023



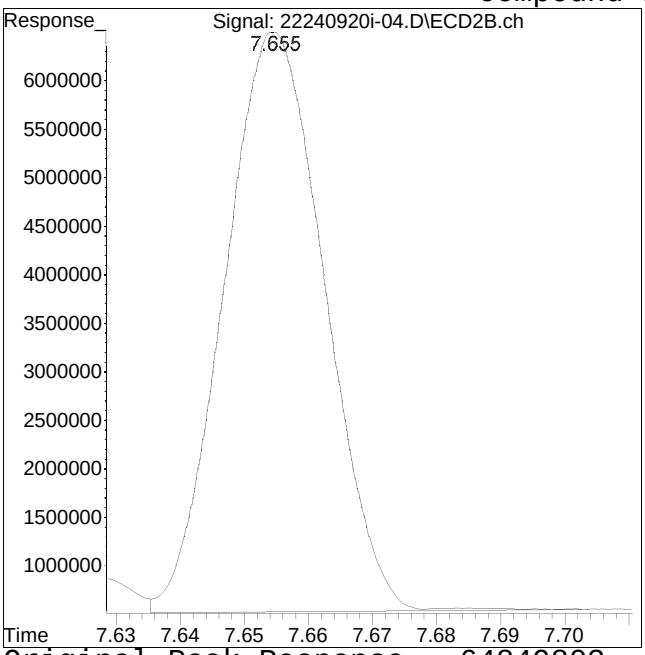
Manual Peak Response = 48106360 M4

M4 = Poor automated baseline construction.

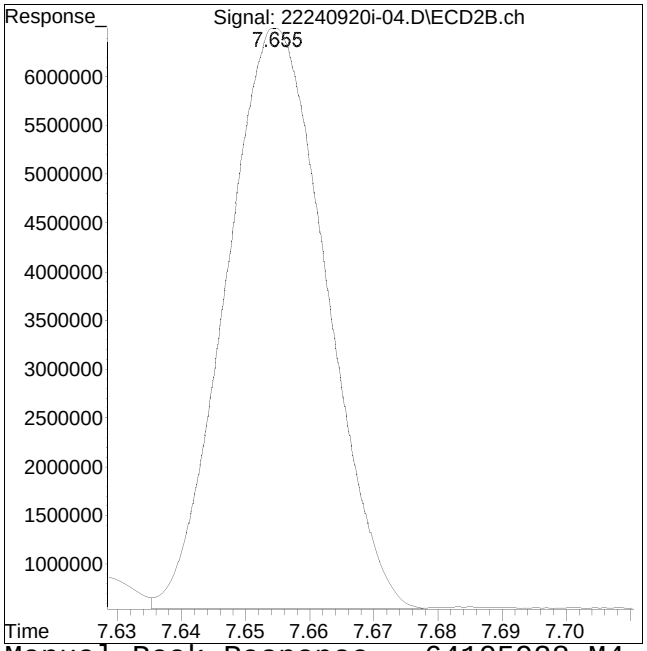
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #18: MCPP #2



Original Peak Response = 64849803



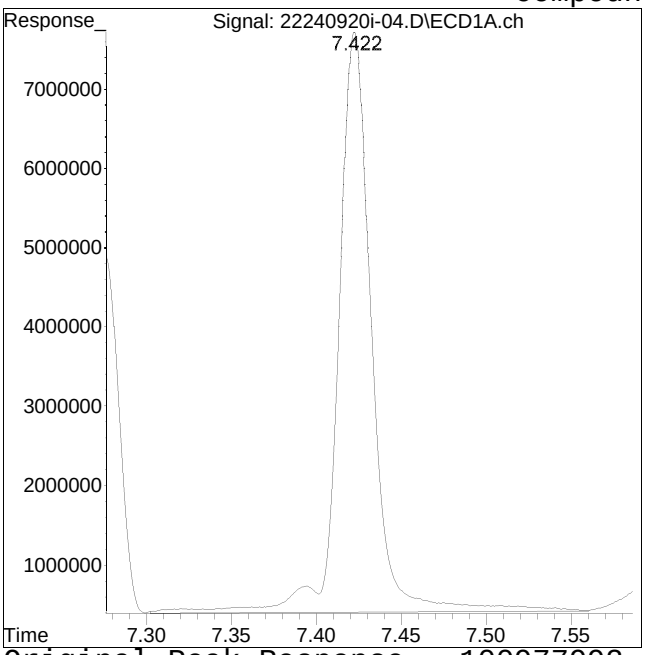
Manual Peak Response = 64105928 M4

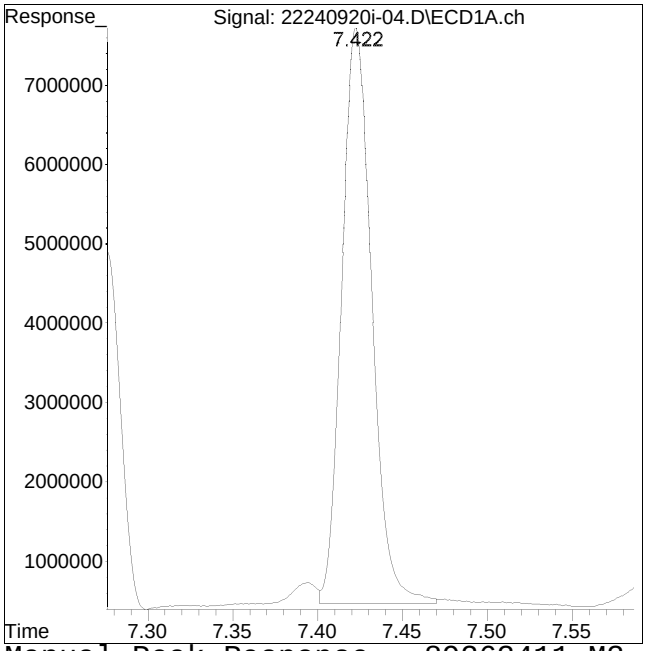
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #6: MCPA



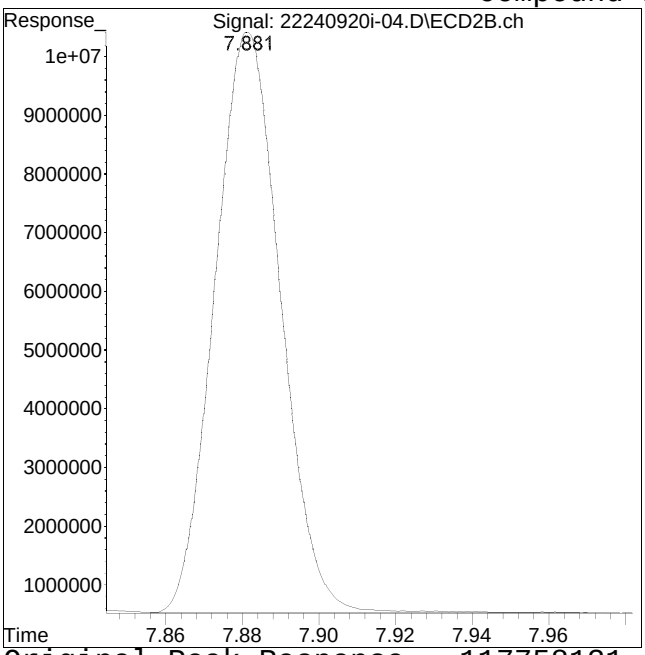


Original Peak Response = 100977992 Manual Peak Response = 89263411 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

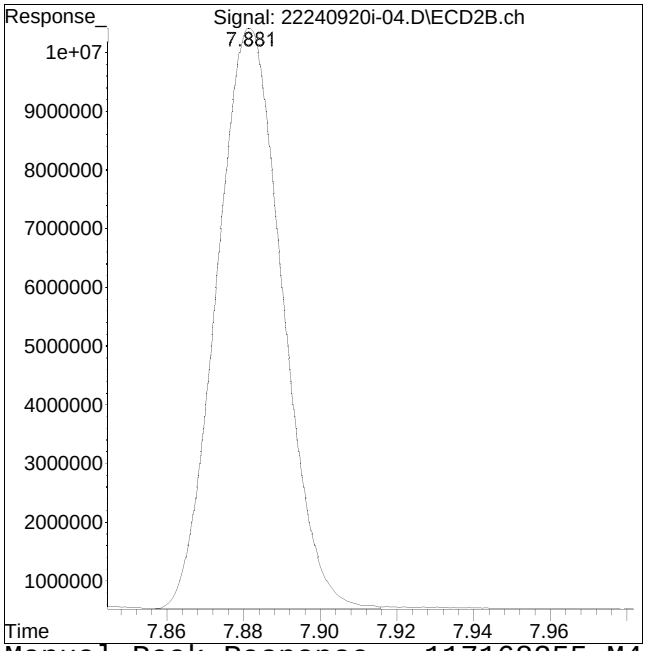
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #19: MCPA #2



Original Peak Response = 117758131



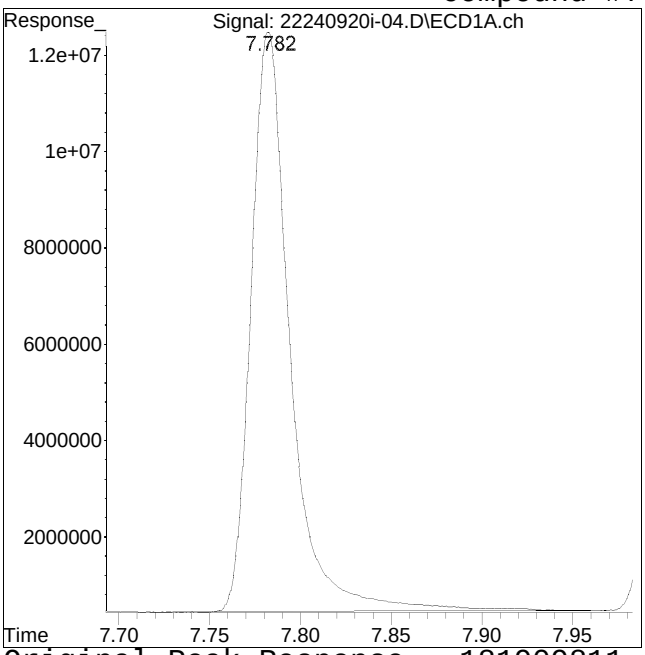
Manual Peak Response = 117168255 M4

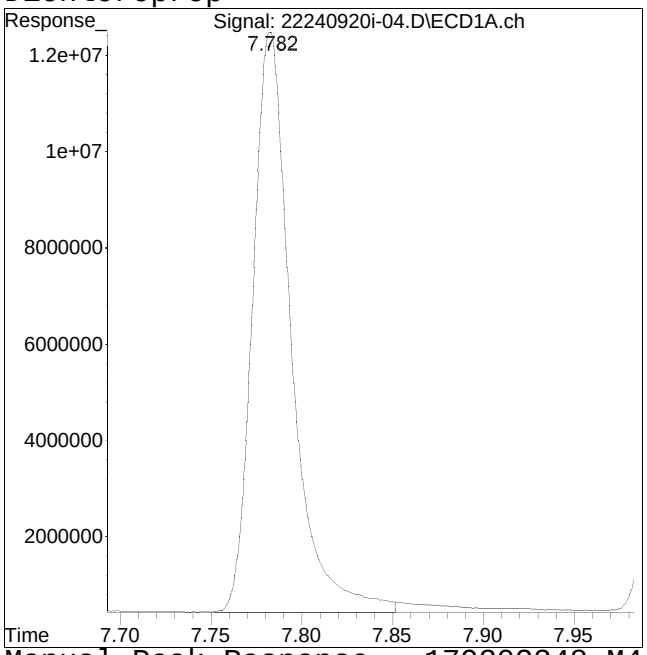
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #7: Dichloroprop



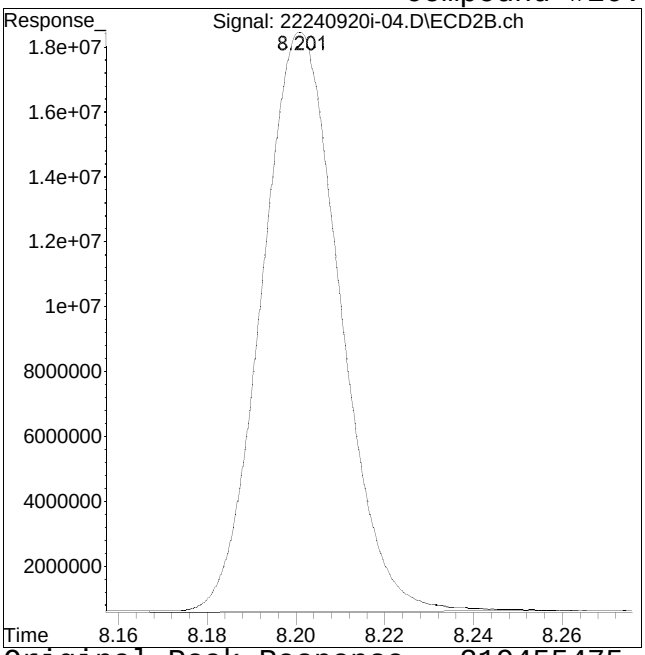


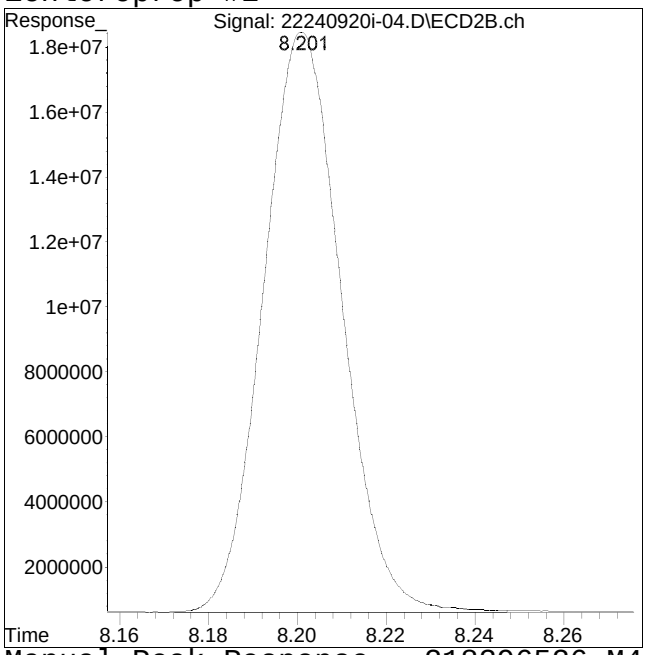
Original Peak Response = 181909811 Manual Peak Response = 179303348 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #20: Dichloroprop #2



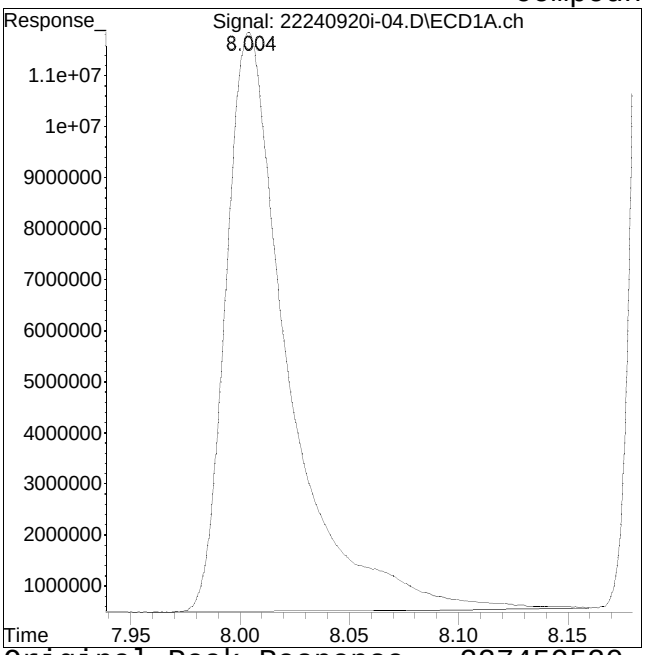


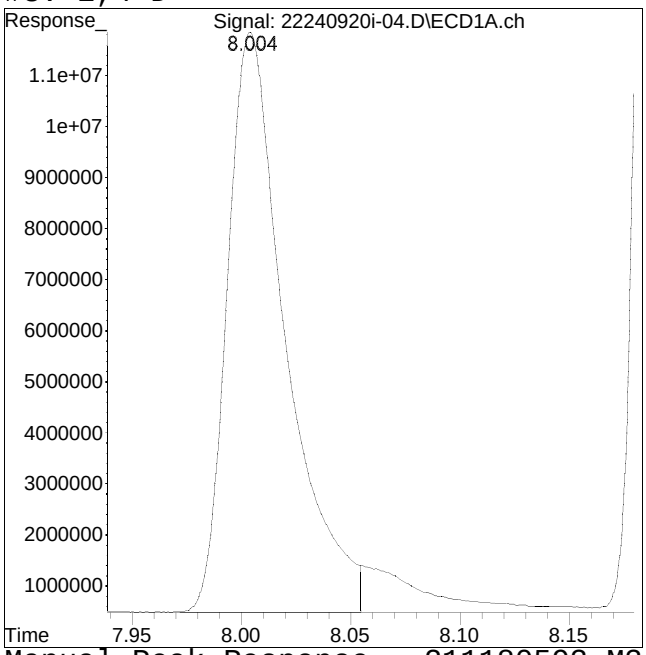
Original Peak Response = 219455475 Manual Peak Response = 218396526 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #8: 2,4-D



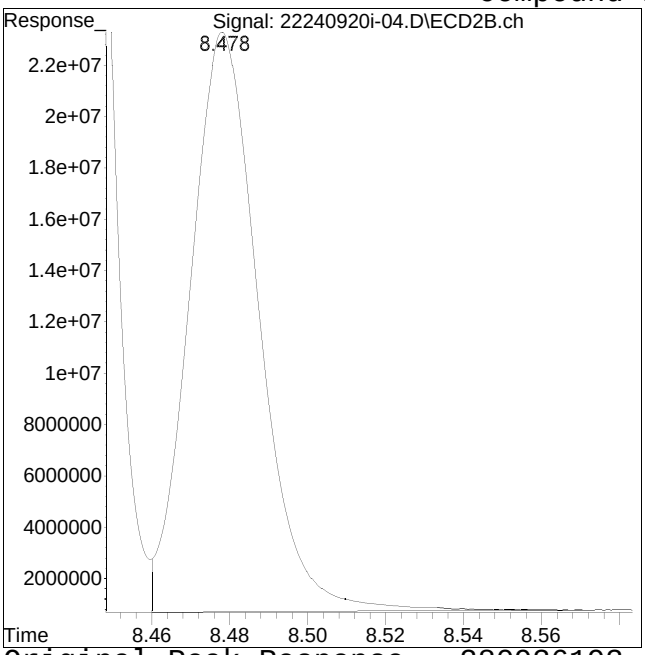


Original Peak Response = 227459520 Manual Peak Response = 211180593 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

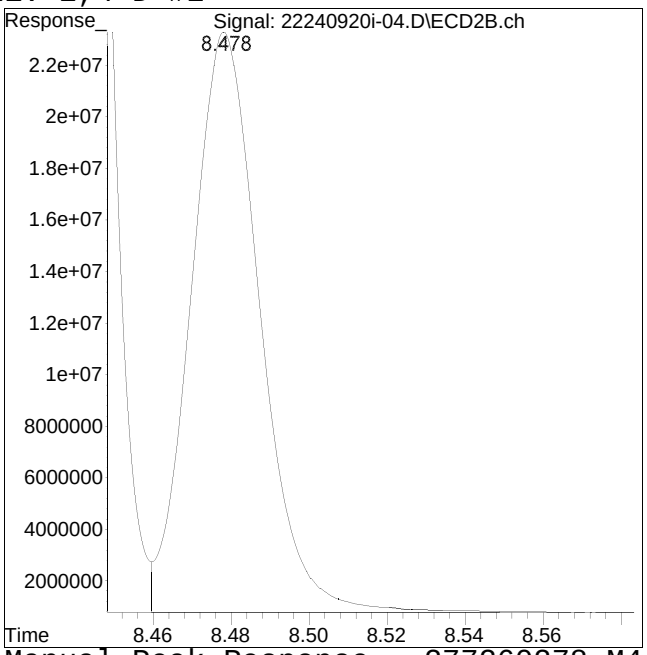
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #21: 2,4-D #2



Original Peak Response = 280936193



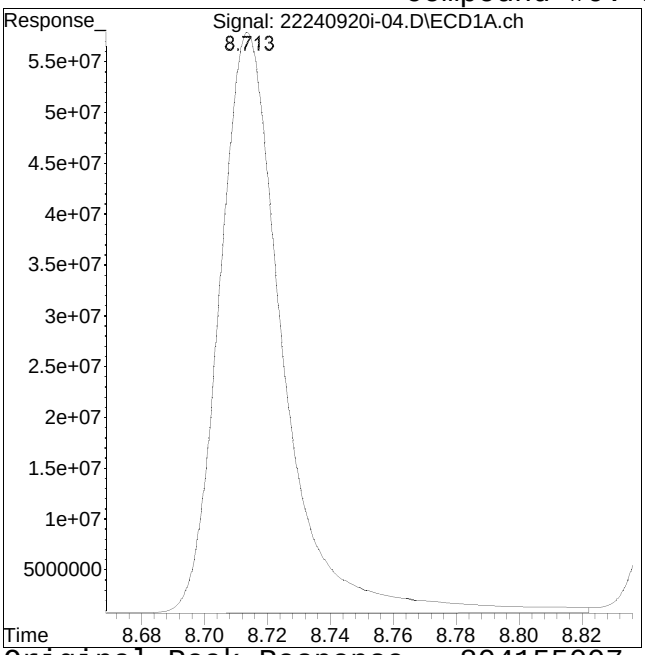
Manual Peak Response = 277260278 M4

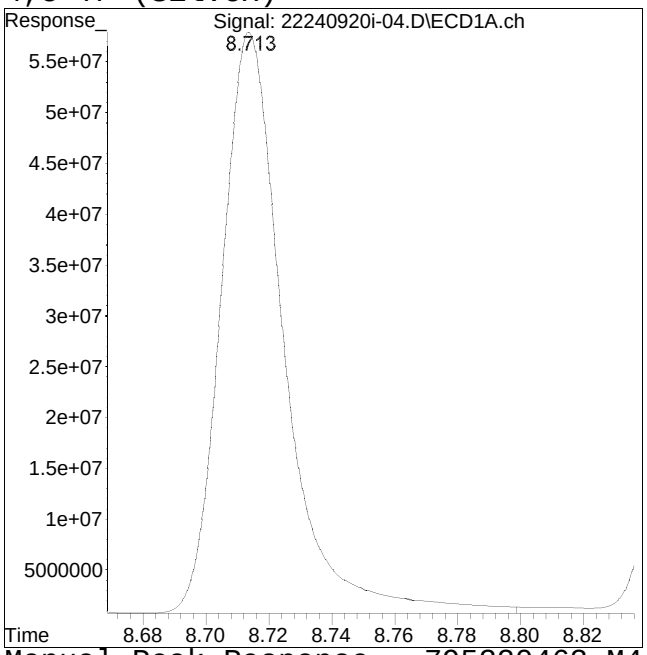
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #9: 2,4,5-TP (Silvex)



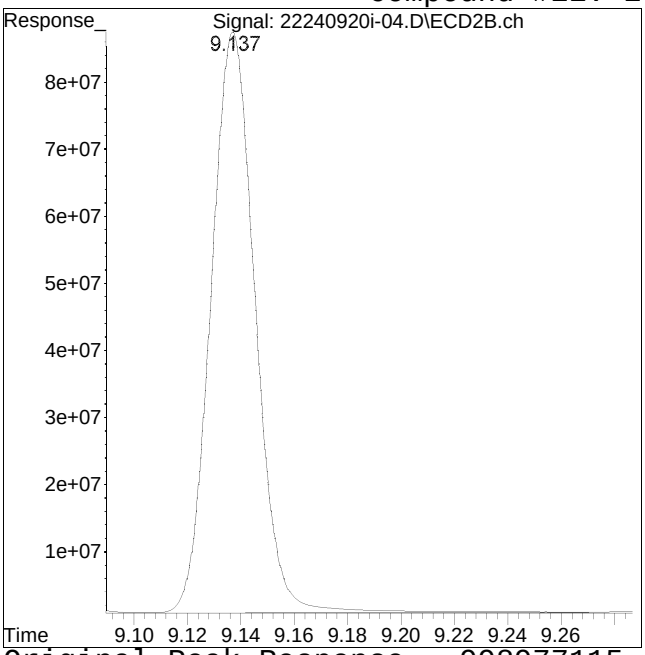


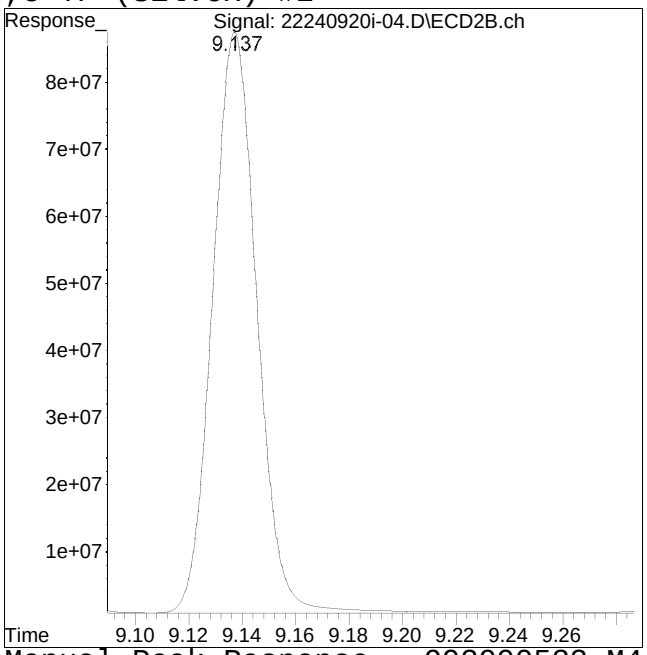
Original Peak Response = 804155007 Manual Peak Response = 795320463 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #22: 2,4,5-TP (Silvex) #2



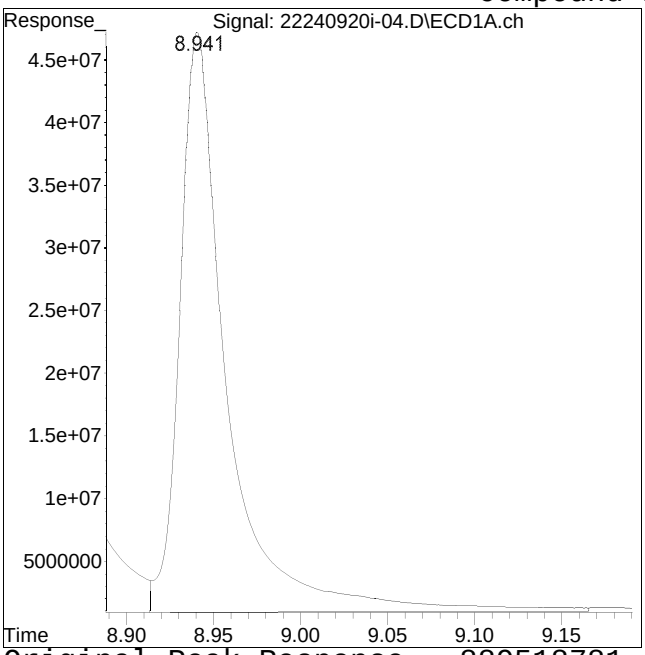


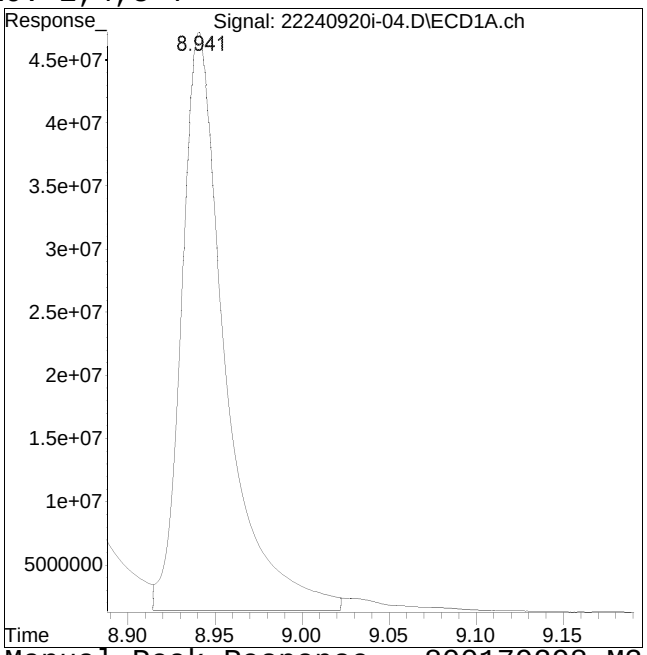
Original Peak Response = 998977115 Manual Peak Response = 992990533 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #10: 2,4,5-T



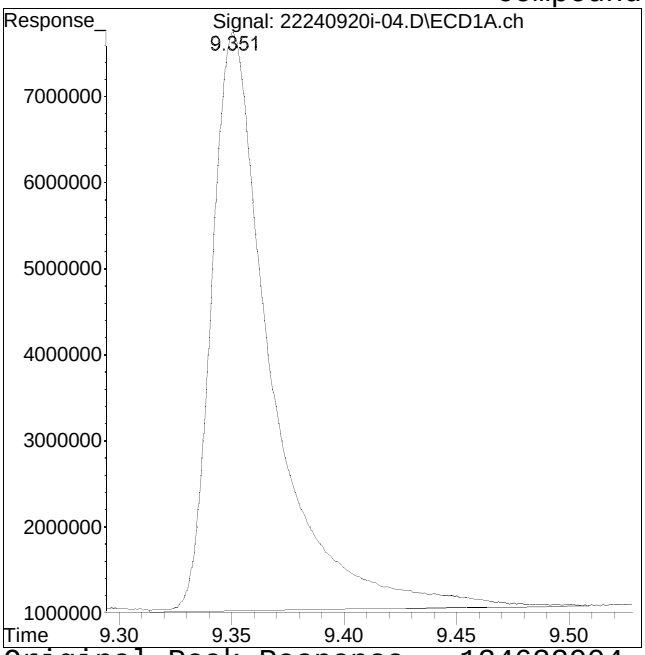


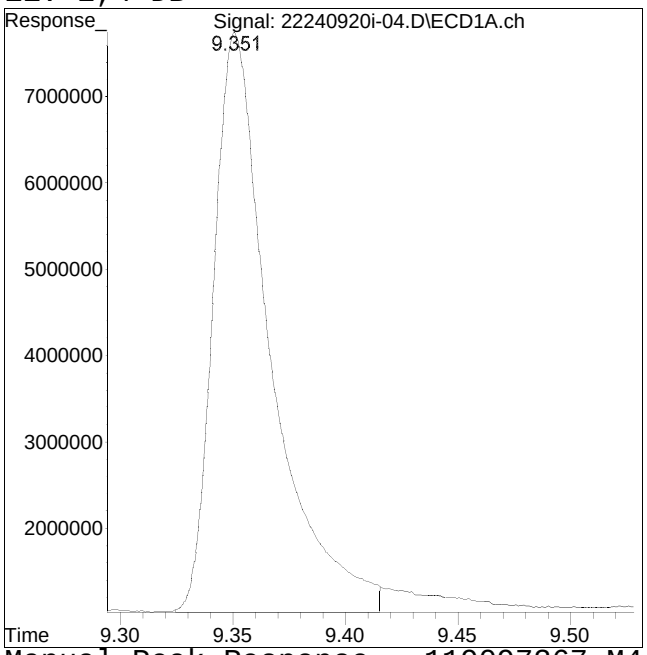
Original Peak Response = 889518781 Manual Peak Response = 800179298 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #11: 2,4-DB



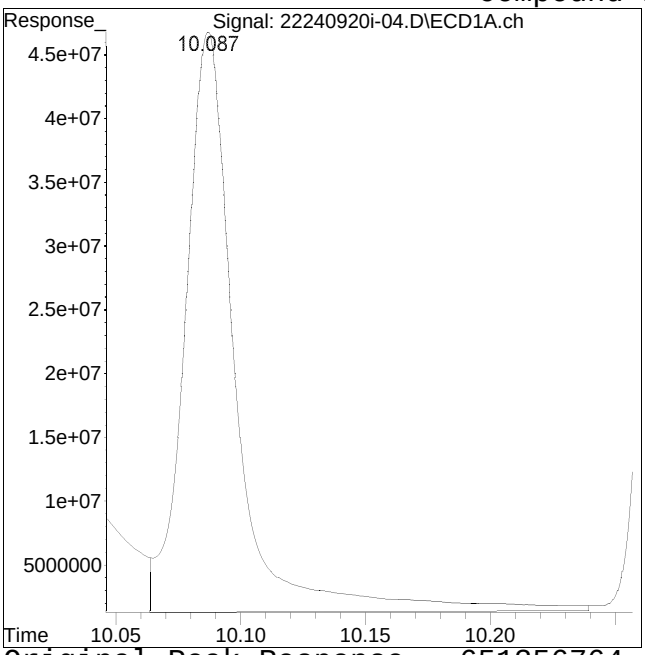


Original Peak Response = 124632904 Manual Peak Response = 119097367 M4
M4 = Poor automated baseline construction.

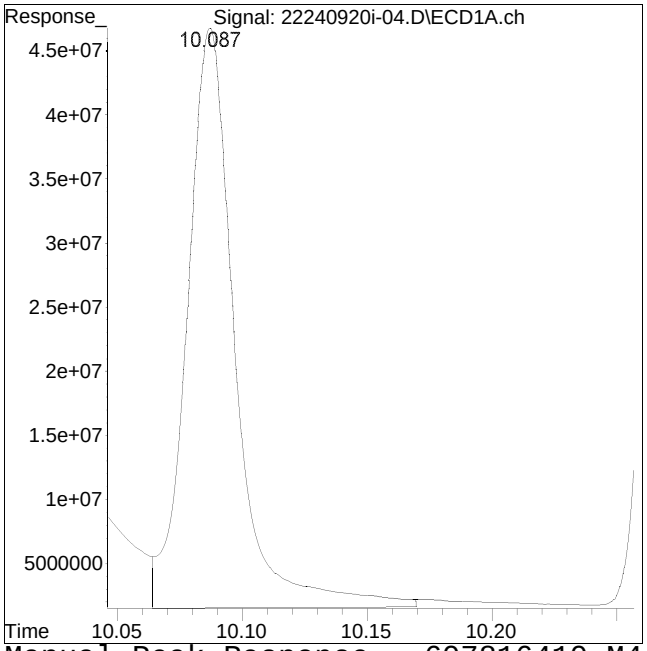
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #12: Dinoseb



Original Peak Response = 651356764



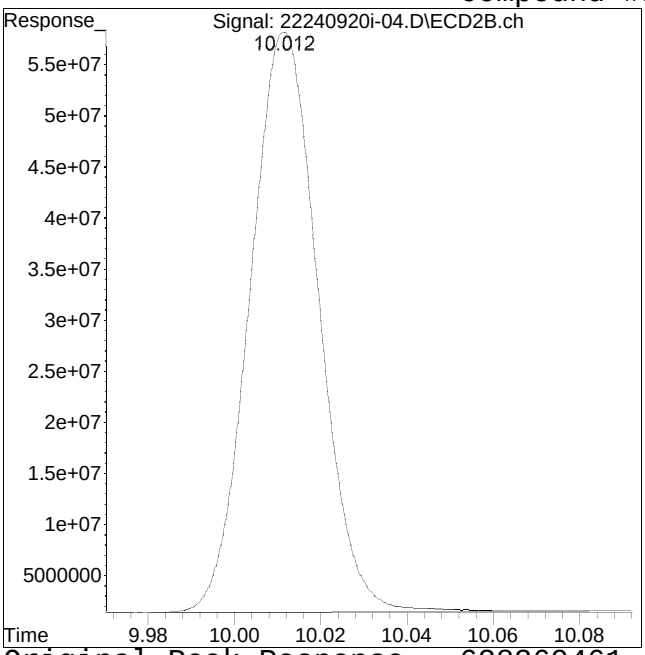
Manual Peak Response = 607816410 M4

M4 = Poor automated baseline construction.

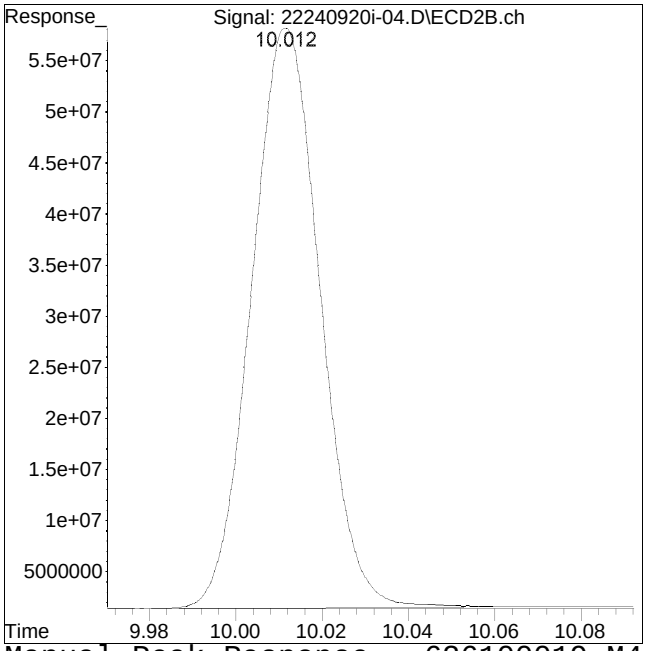
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #25: Dinoseb #2



Original Peak Response = 628369461



Manual Peak Response = 626100019 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:38 pm
Operator : pest22:akm
Sample : il4herb,42e,,pp 11630 L0.5/50
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:12:32 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:12:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.437	8.436	1196.7E6	1494.9E6	0.250M3	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.897	7.363	405.3E6	490.2E6	0.446M4	0.441M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	89.20%	88.20%
		Target Compounds						
2)	t	Dalapon	2.324	2.319	531.7E6	551.2E6	0.446M4	0.430M3
4)	t	Dicamba	7.076	7.543	1218.9E6	1398.0E6	0.445M4	0.443M4
5)	t	MCPP	7.276	7.655	114.8E6	150.8E6	47.079M4	47.069M4
6)	t	MCPA	7.423	7.882	189.8E6	247.2E6	43.902M4	44.035M4
7)	t	Dichloroprop	7.780	8.201	365.4E6	449.3E6	0.434M4	0.439M4
8)	t	2,4-D	7.997	8.477	453.2E6	573.5E6	0.446M4	0.440M4
9)	t	2,4,5-TP (Si	8.712	9.137	1679.8E6	2054.5E6	0.447M4	0.445M4
10)	t	2,4,5-T	8.936	9.427	1699.2E6	2025.0E6	0.448M3	0.448
11)	t	2,4-DB	9.345	9.789	253.8E6	336.5E6	0.454M3	0.453M4
12)	t	Dinoseb	10.086	10.011	1212.2E6	1293.7E6	0.461M4	0.445M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:38 pm
Operator : pest22:akm
Sample : il4herb,42e,,pp 11630 L0.5/50
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:12:32 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:12:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

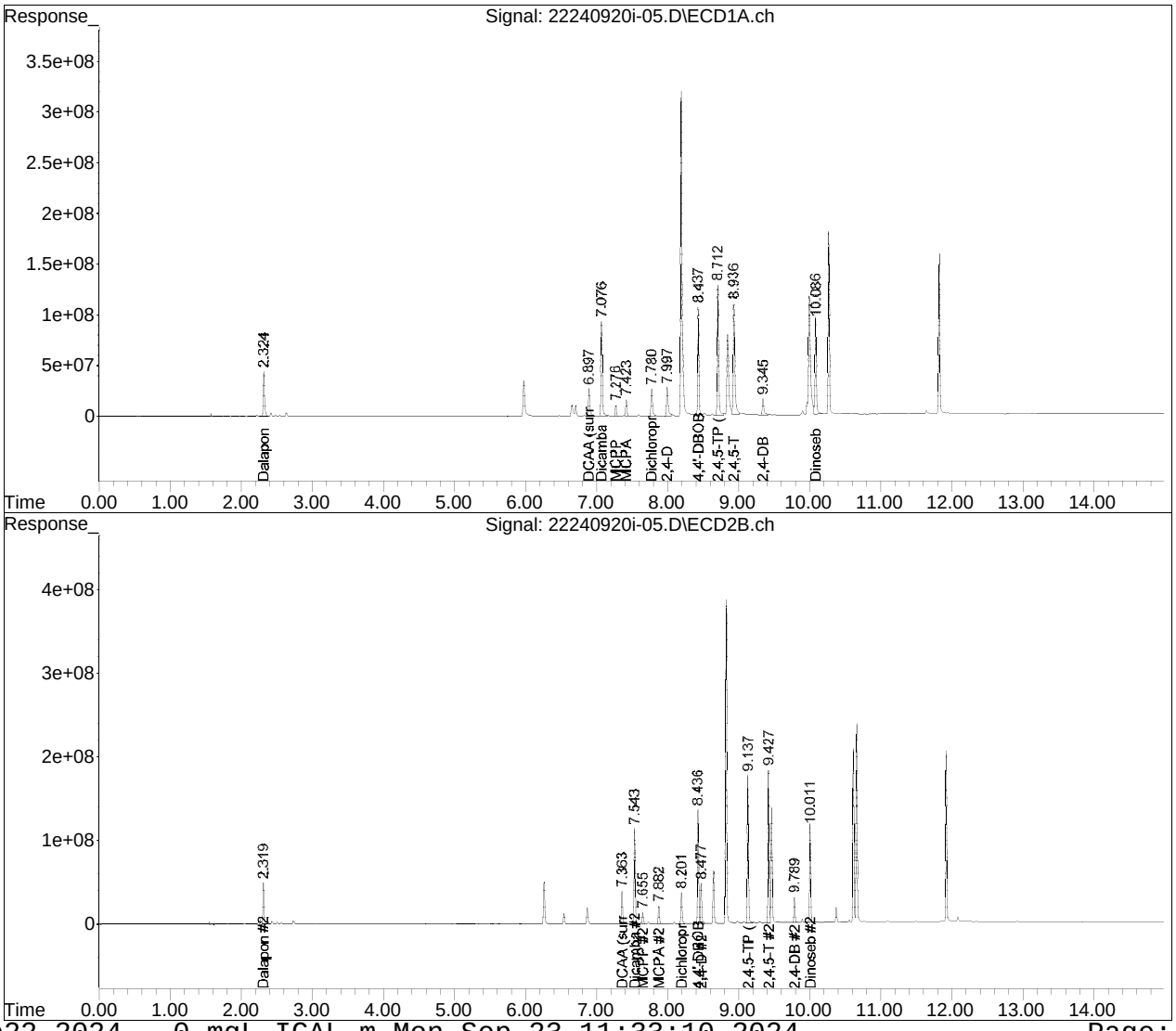
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:38 pm
Operator : pest22:akm
Sample : il4herb,42e,,pp 11630 L0.5/50
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:12:32 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:12:23 2024
Response via : Initial Calibration
Integrator: ChemStation

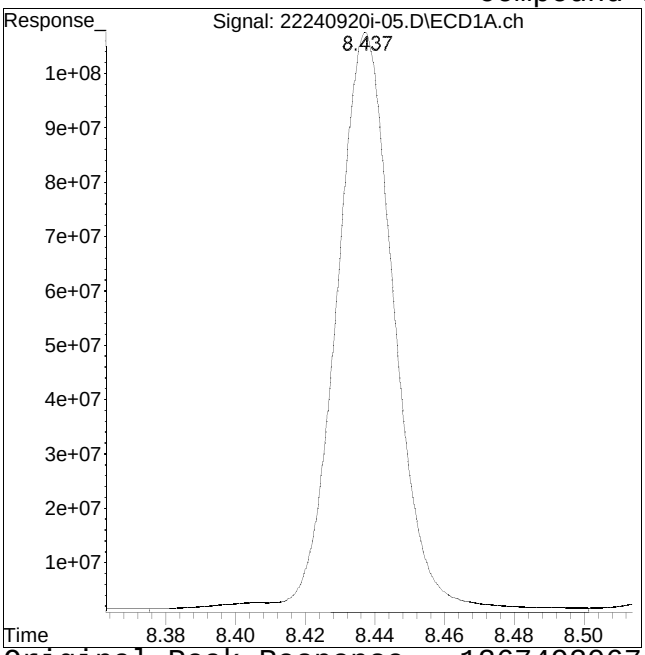
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

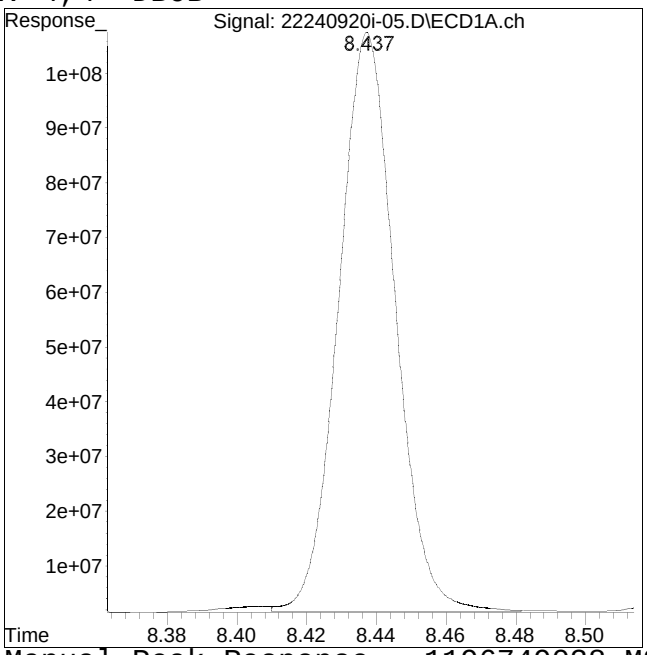


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #1: 4,4'-DBOB



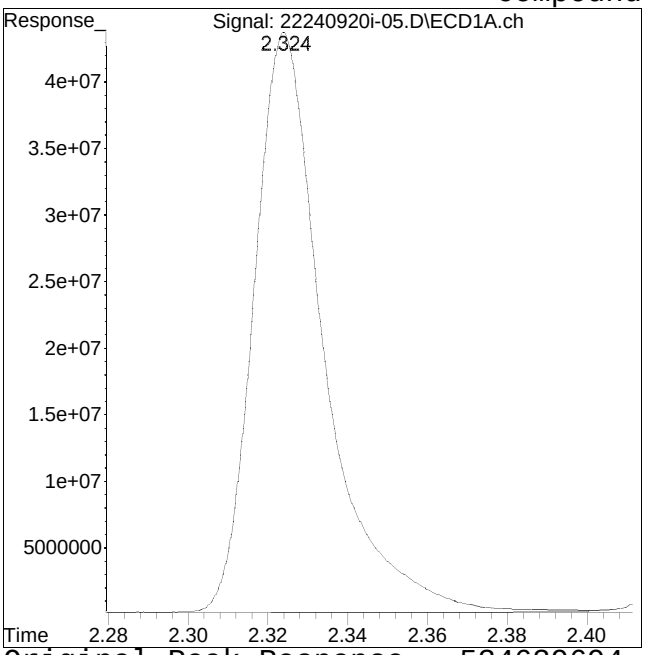


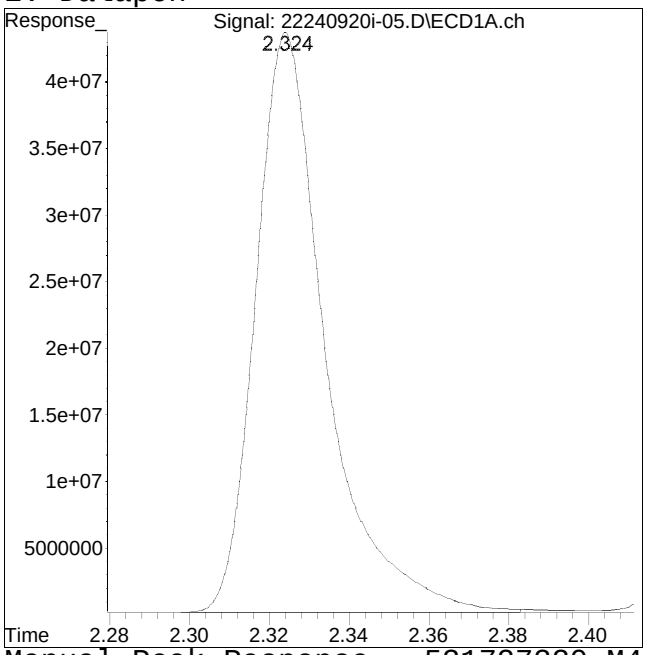
Original Peak Response = 1267493067 Manual Peak Response = 1196749038 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #2: Dalapon



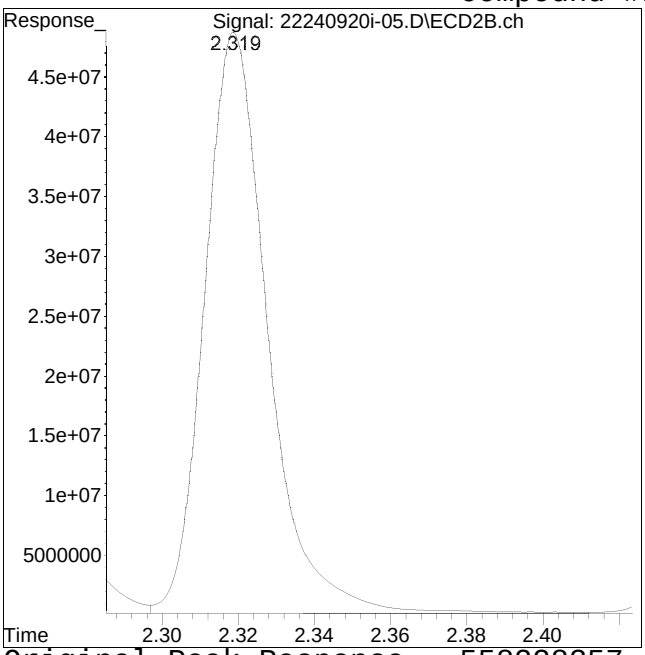


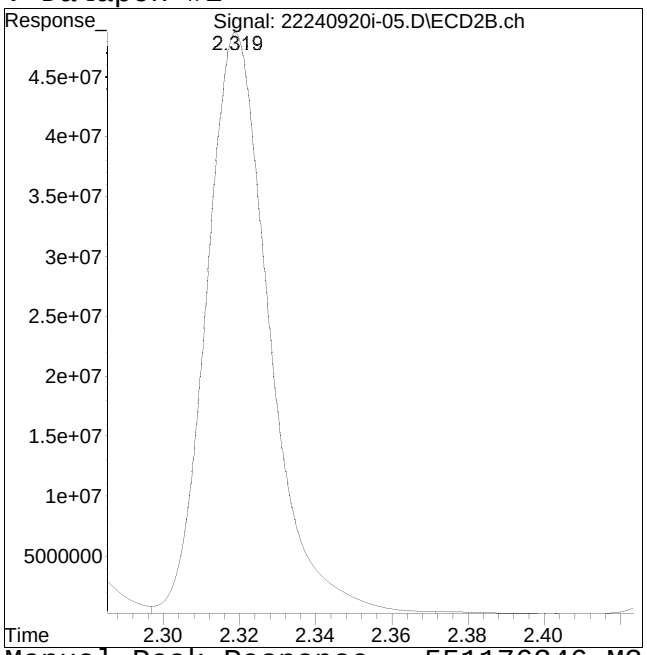
Original Peak Response = 534639694 Manual Peak Response = 531727320 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #15: Dalapon #2



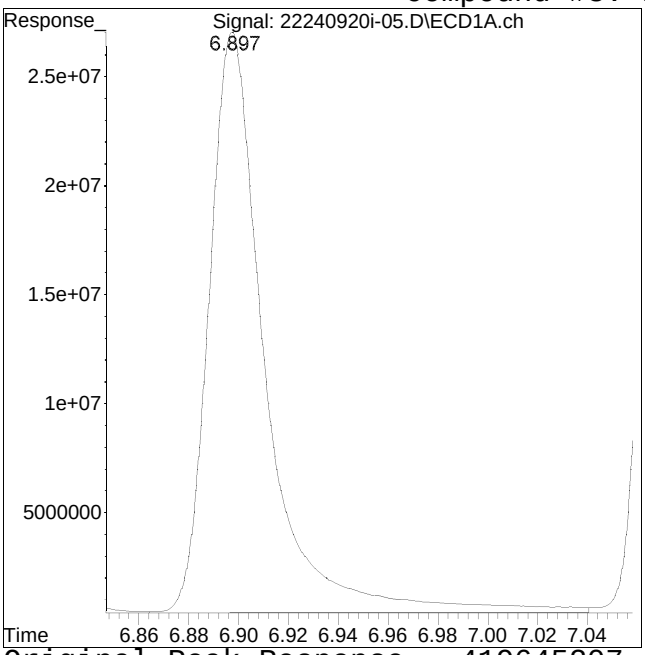


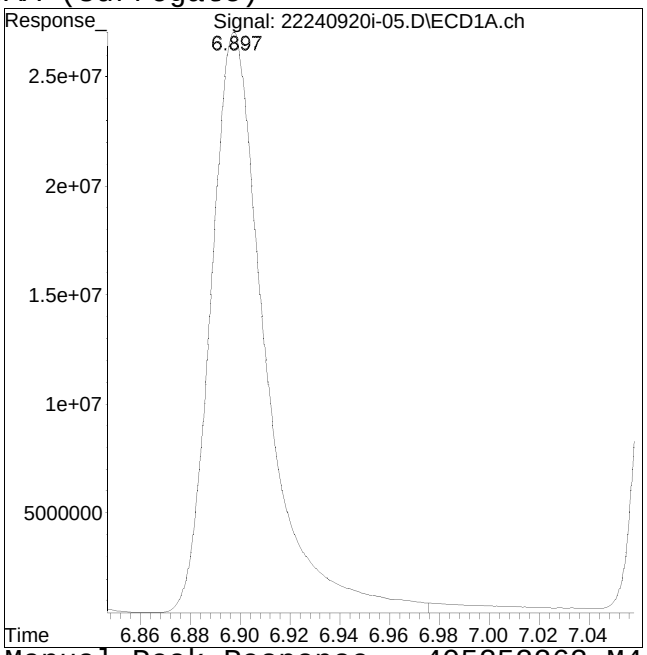
Original Peak Response = 558228357 Manual Peak Response = 551176346 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #3: DCAA (surrogate)



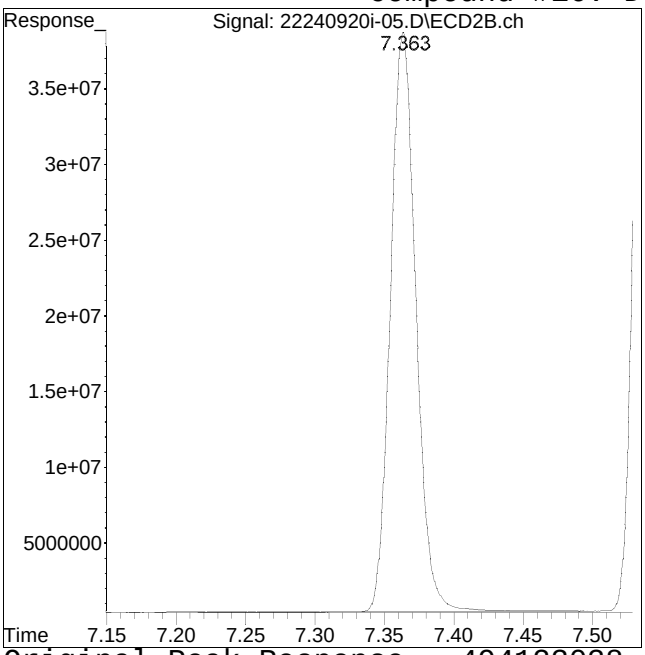


Original Peak Response = 419645207 Manual Peak Response = 405252262 M4
M4 = Poor automated baseline construction.

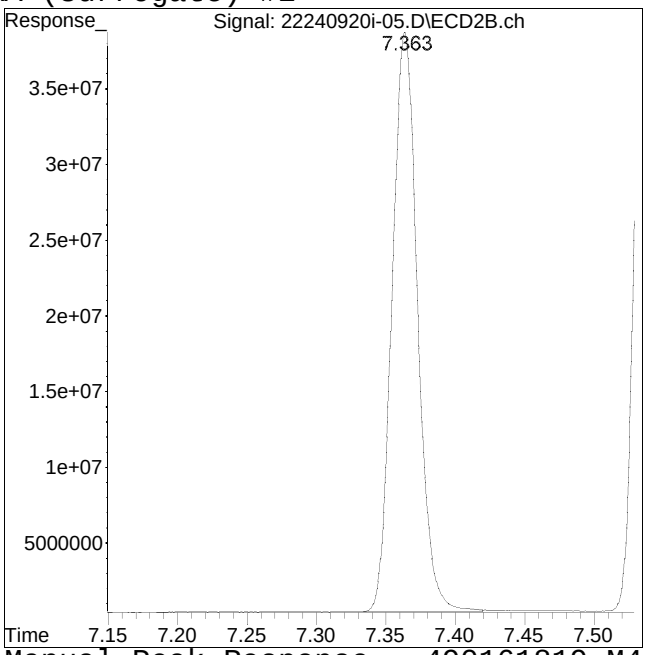
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 494123038

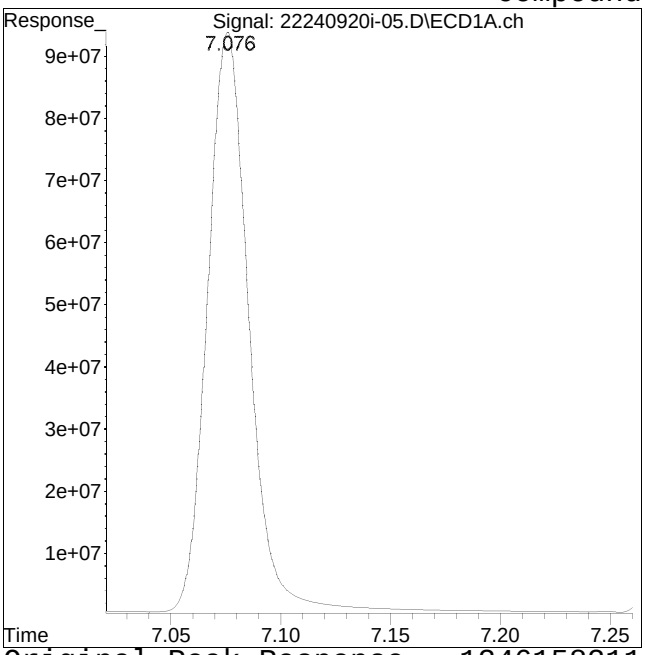


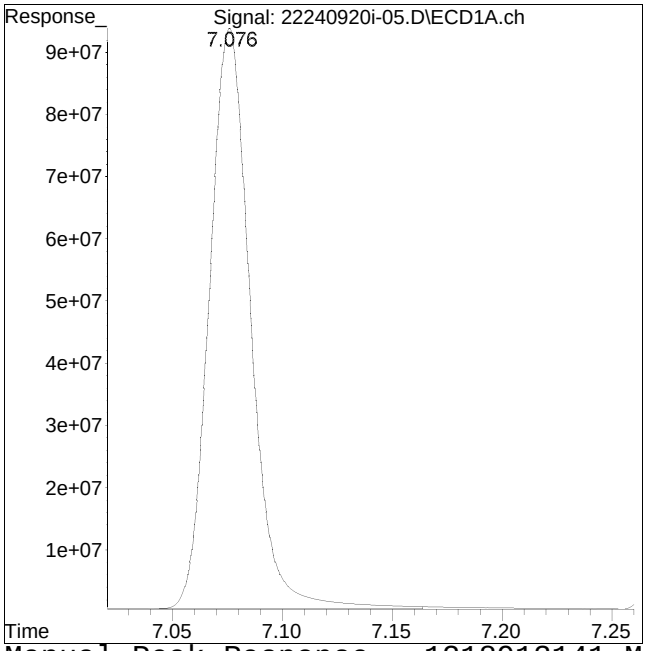
Manual Peak Response = 490161819 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #4: Dicamba



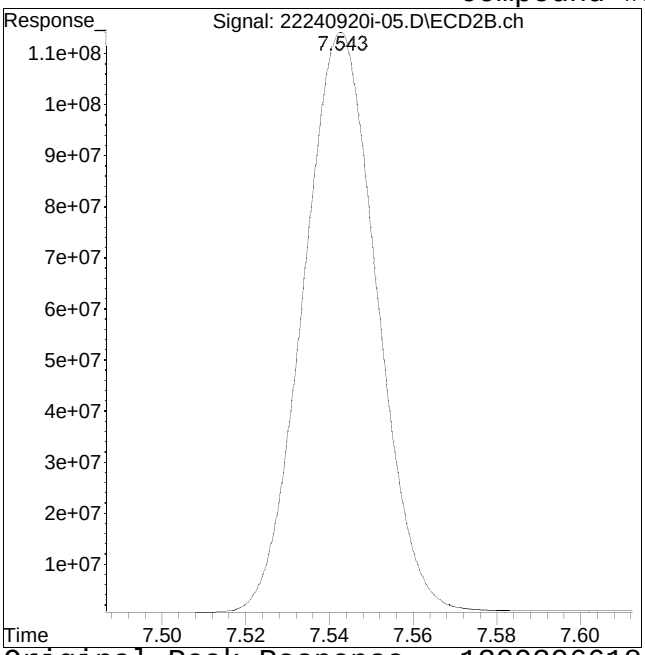


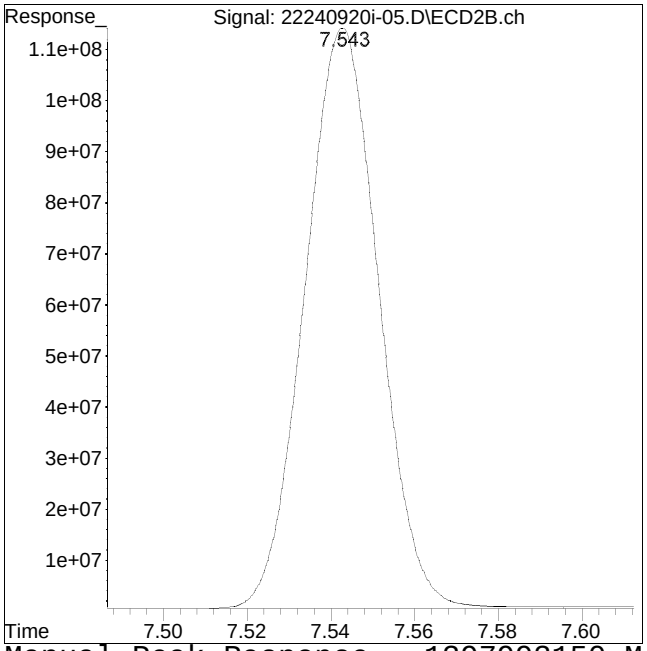
Original Peak Response = 1246158211 Manual Peak Response = 1218913141 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #17: Dicamba #2



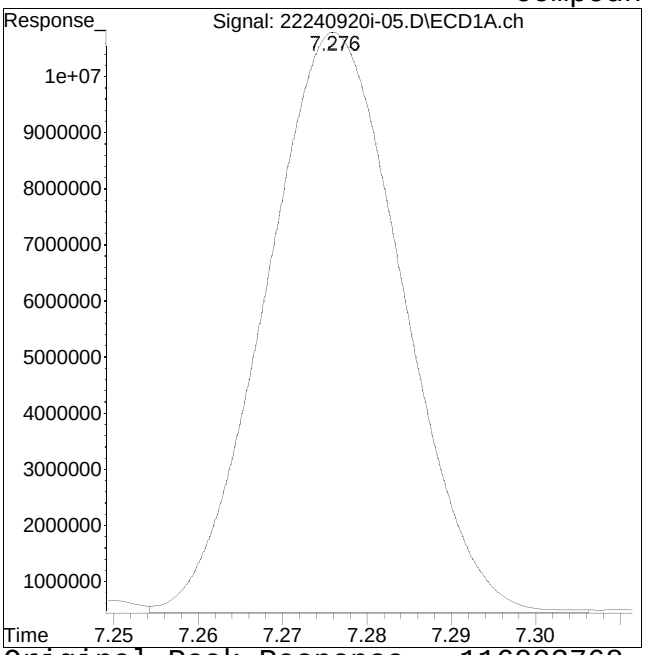


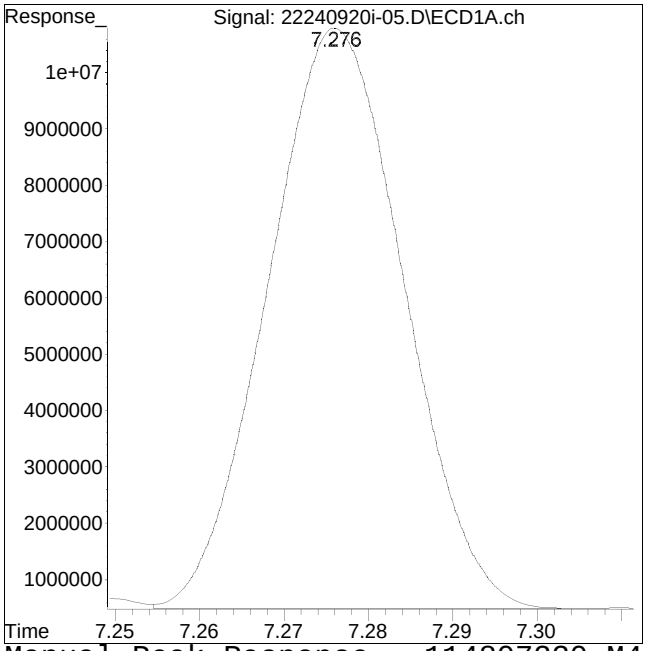
Original Peak Response = 1399396618 Manual Peak Response = 1397993150 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #5: MCPP



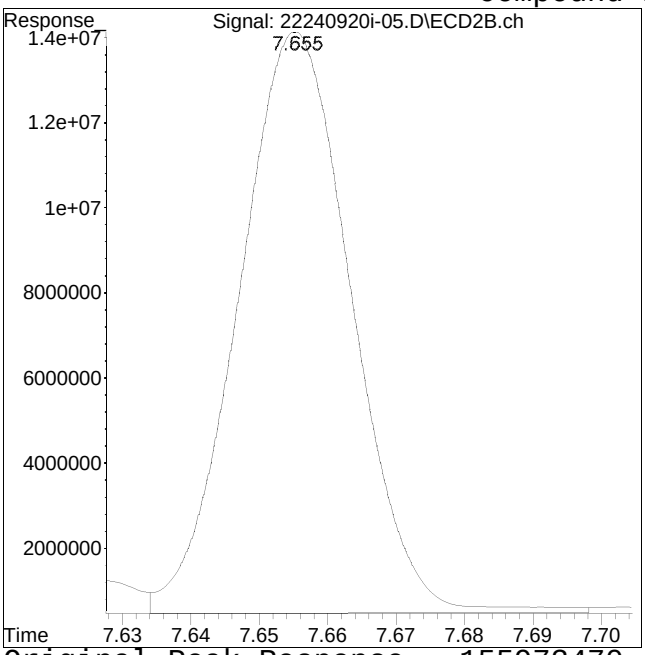


Original Peak Response = 116003768 Manual Peak Response = 114807230 M4
M4 = Poor automated baseline construction.

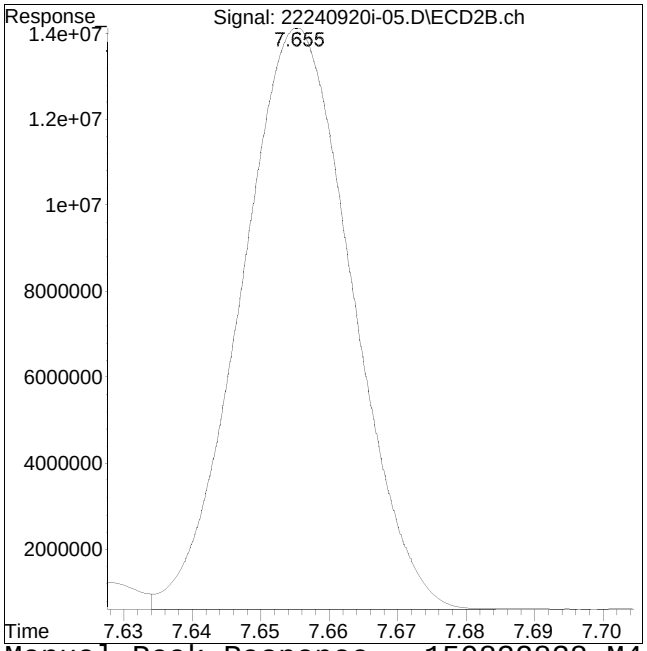
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #18: MCPP #2



Original Peak Response = 155973470

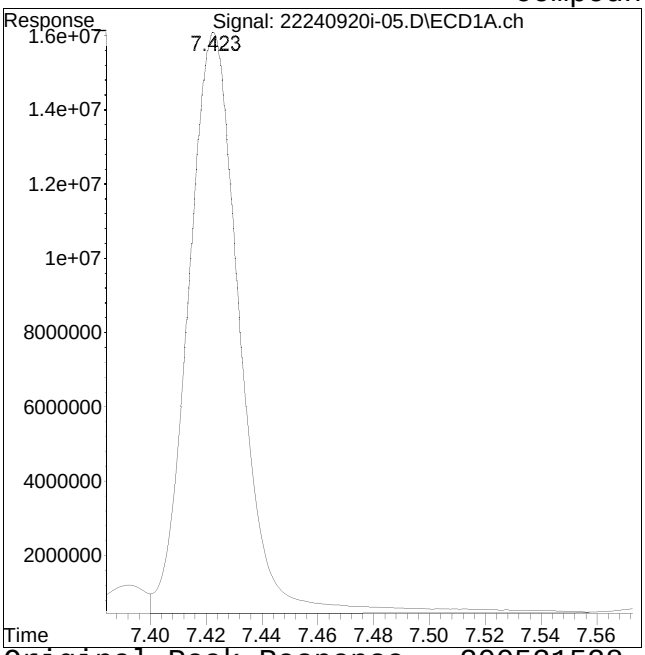


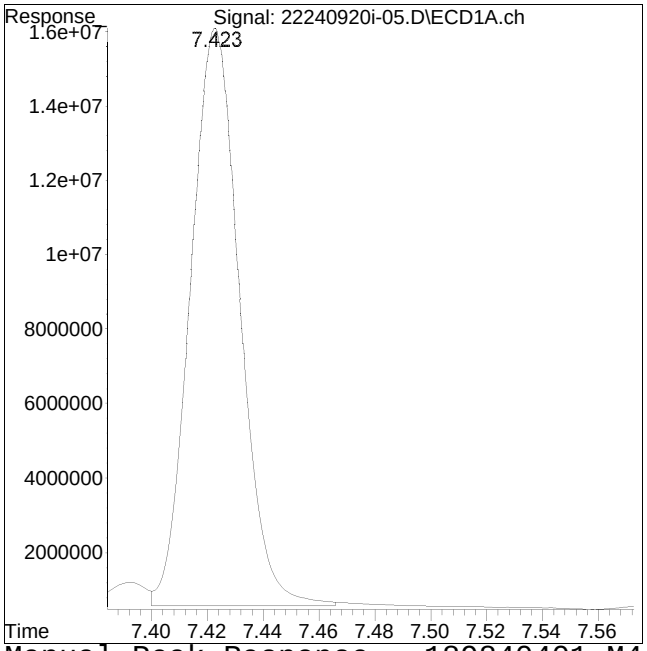
Manual Peak Response = 150832838 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #6: MCPA



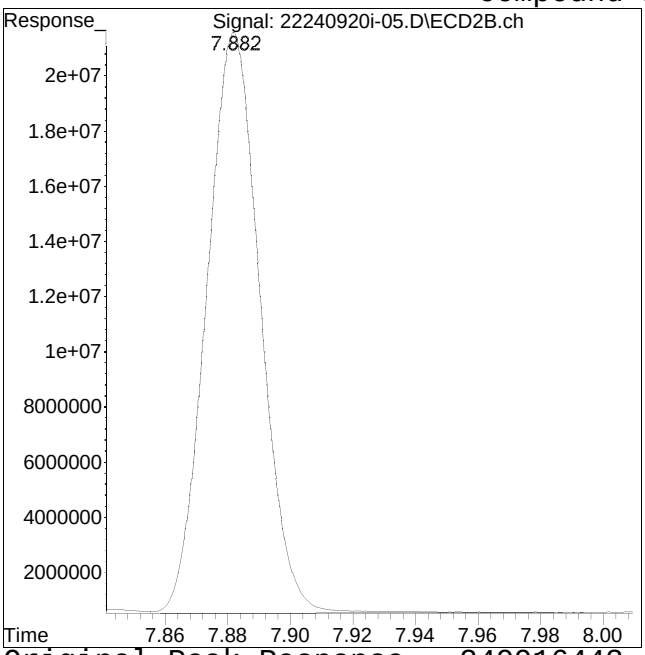


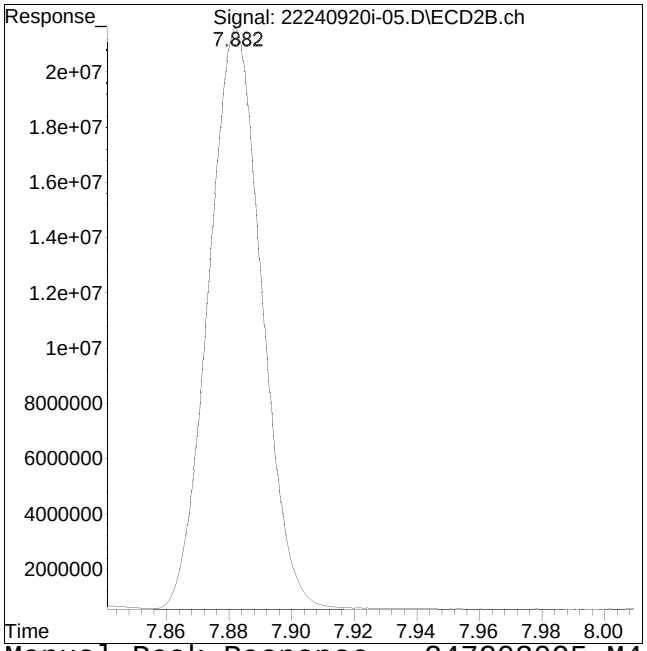
Original Peak Response = 200531528 Manual Peak Response = 189840401 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #19: MCPA #2



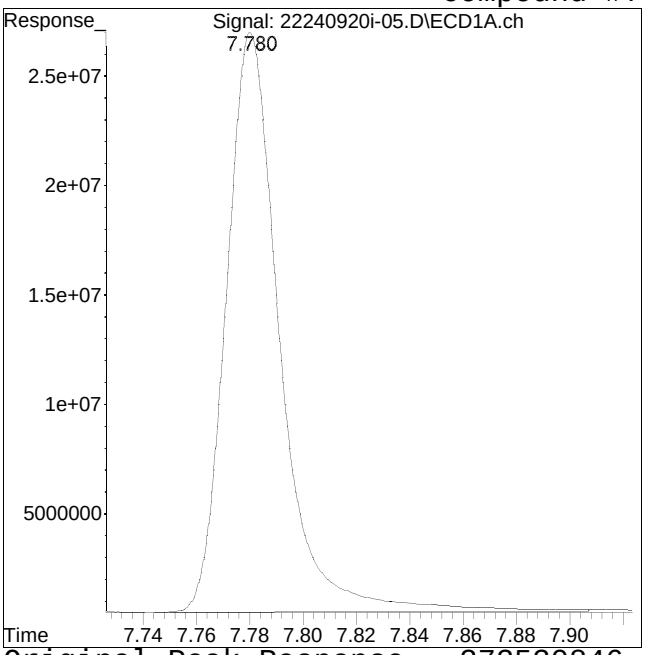


Original Peak Response = 249916443 Manual Peak Response = 247203095 M4
M4 = Poor automated baseline construction.

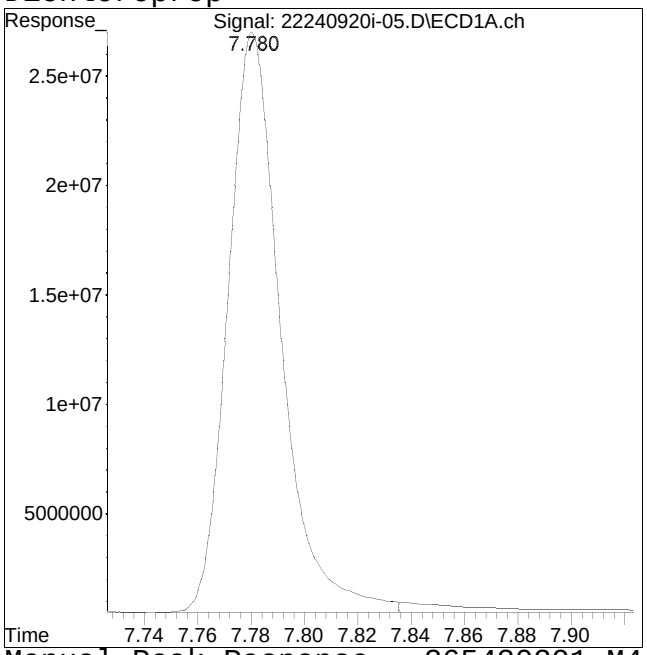
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #7: Dichloroprop



Original Peak Response = 373530846

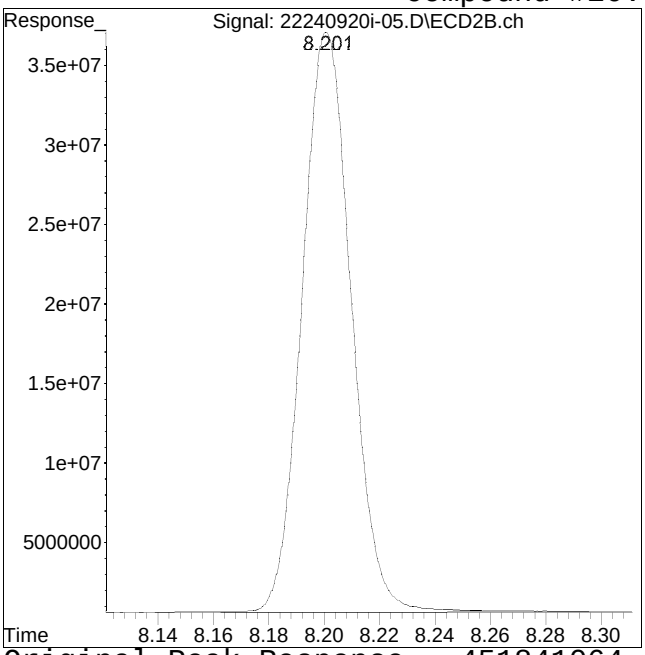


Manual Peak Response = 365430291 M4
M4 = Poor automated baseline construction.

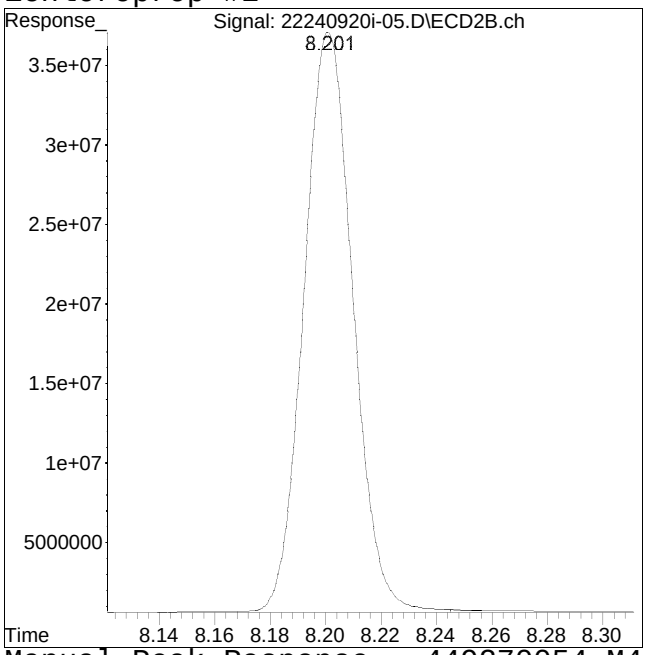
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #20: Dichloroprop #2



Original Peak Response = 451841064



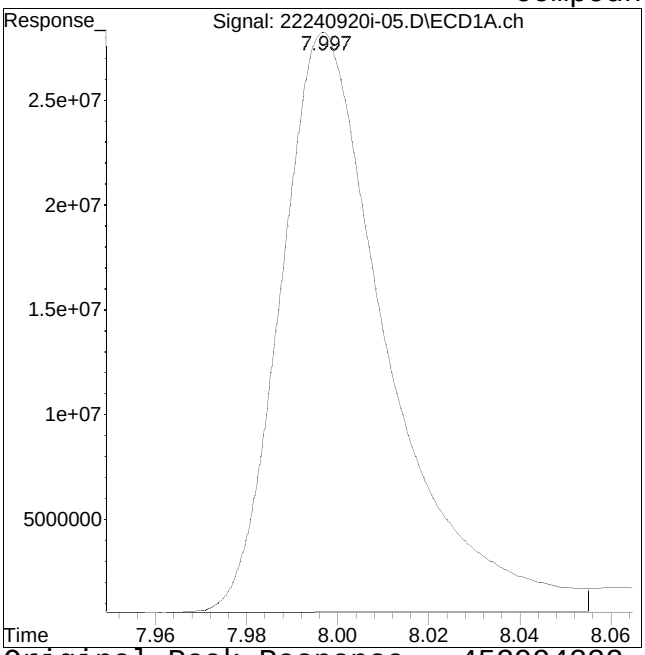
Manual Peak Response = 449270054 M4

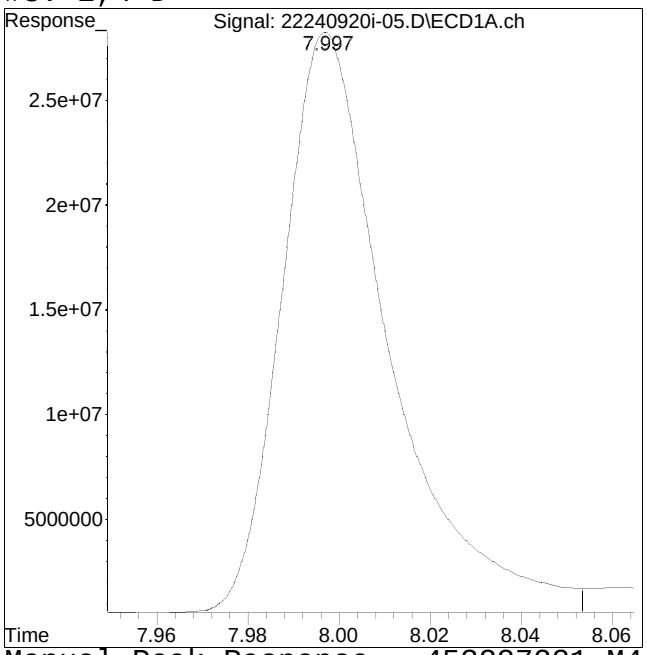
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #8: 2,4-D



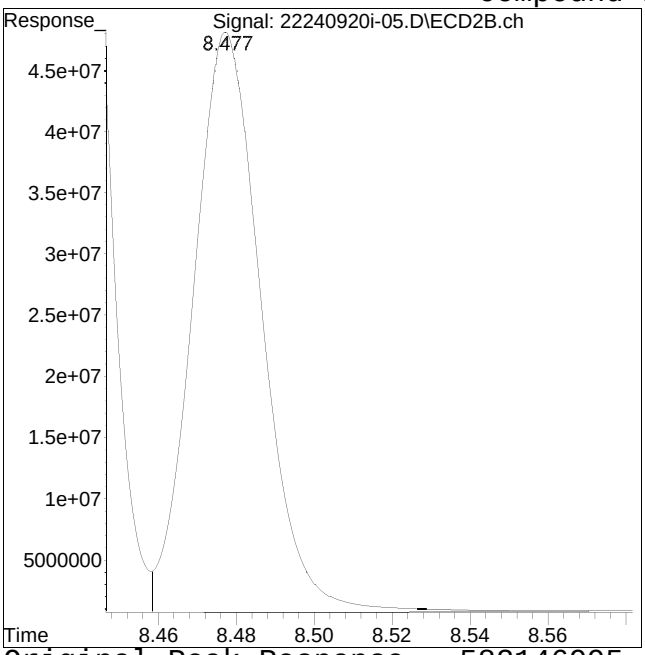


Original Peak Response = 452994332 Manual Peak Response = 453227221 M4
M4 = Poor automated baseline construction.

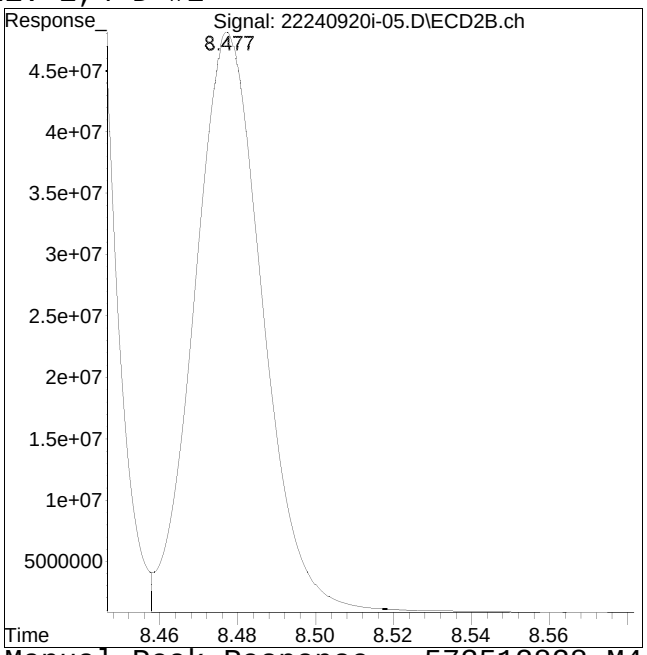
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #21: 2,4-D #2



Original Peak Response = 582146995

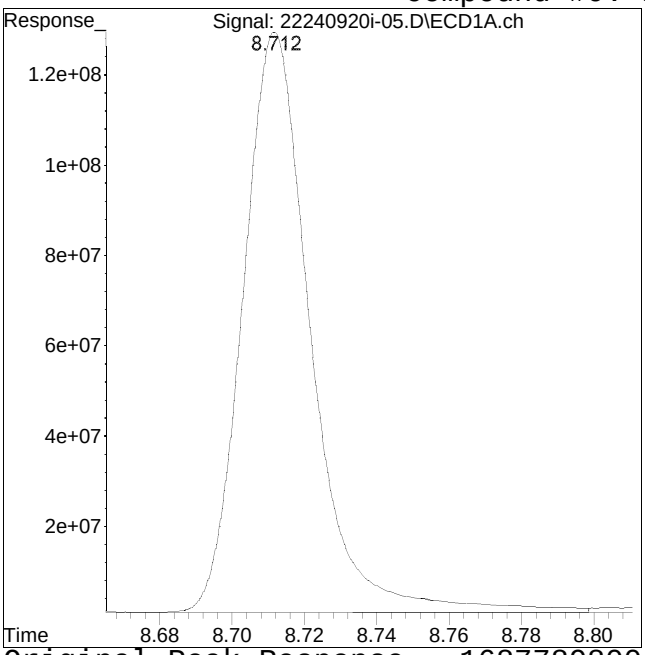


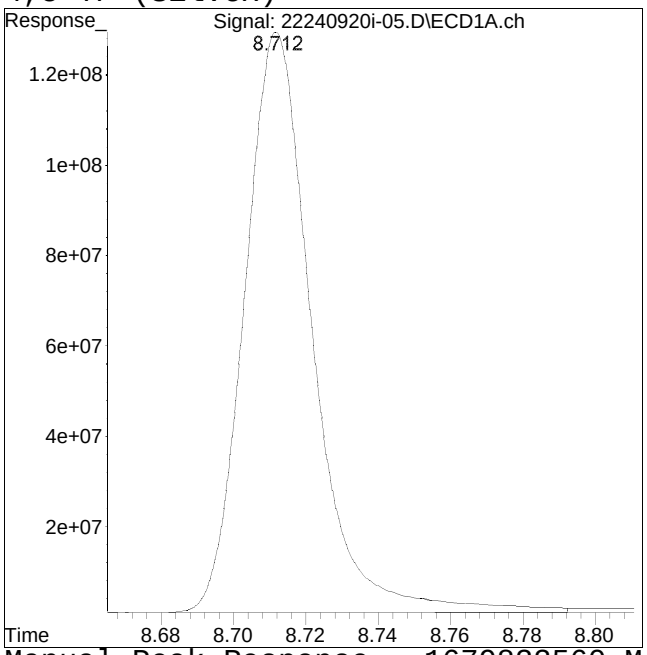
Manual Peak Response = 573512828 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #9: 2,4,5-TP (Silvex)



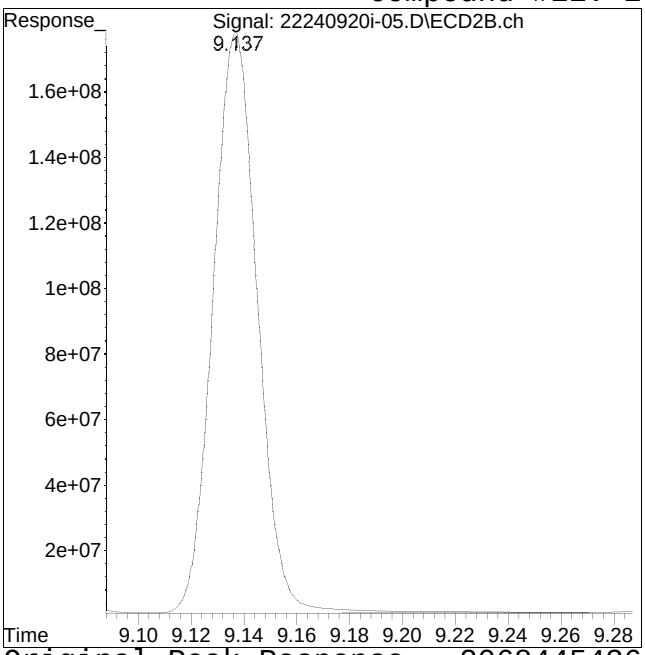


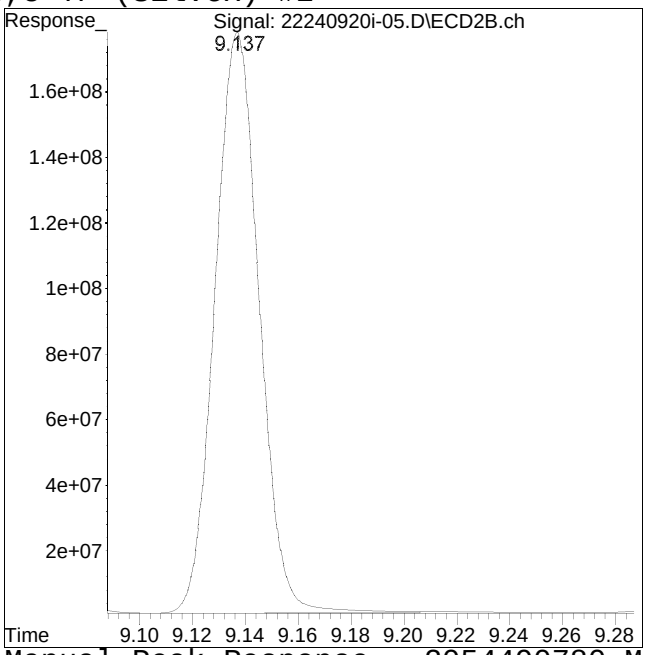
Original Peak Response = 1687789800 Manual Peak Response = 1679833560 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #22: 2,4,5-TP (Silvex) #2



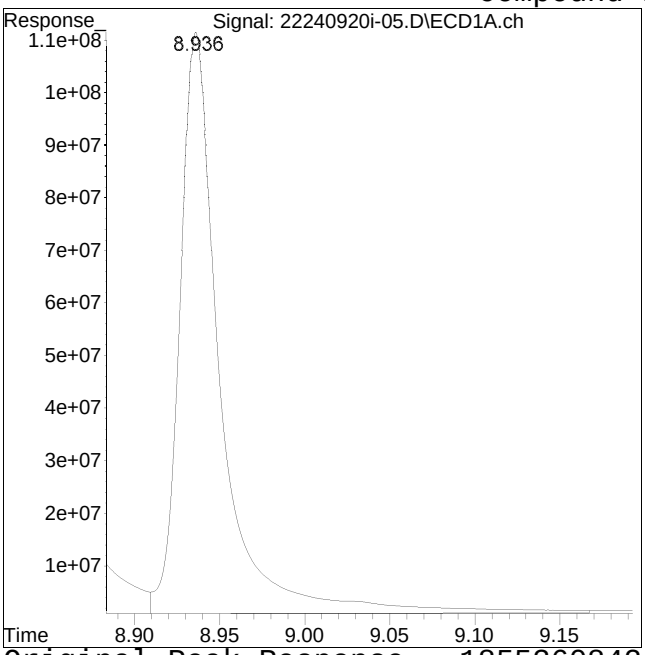


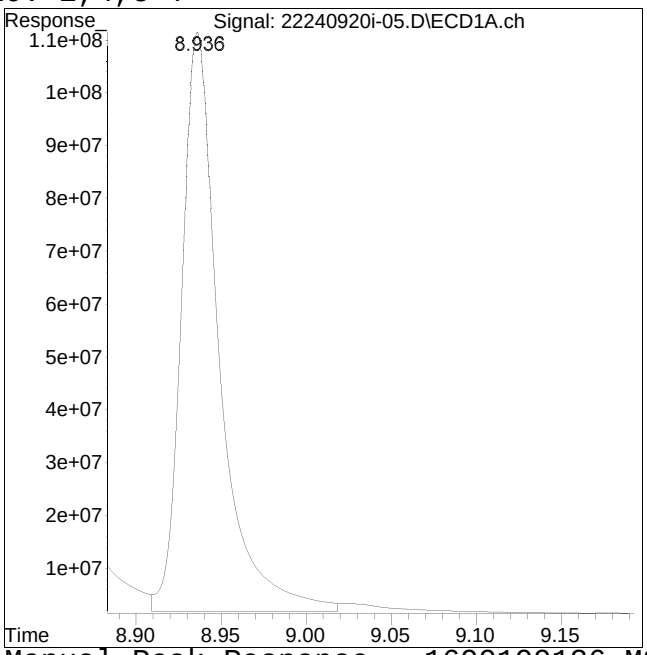
Original Peak Response = 2068445436 Manual Peak Response = 2054490780 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #10: 2,4,5-T



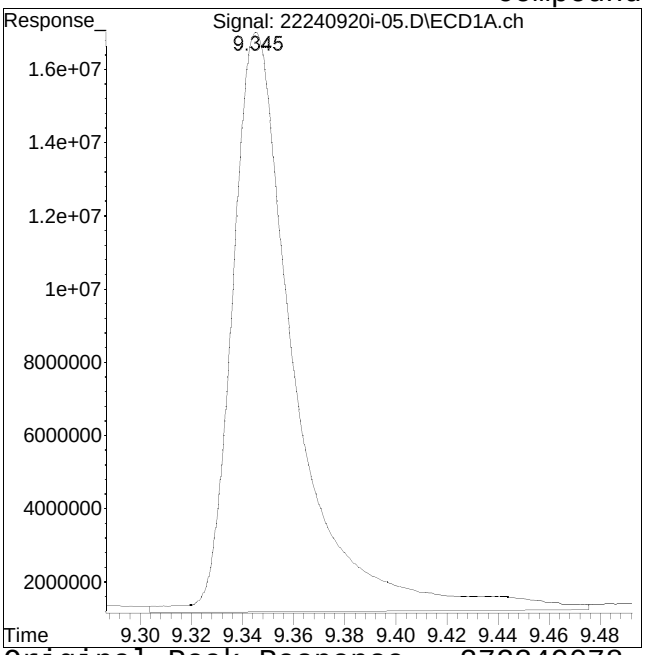


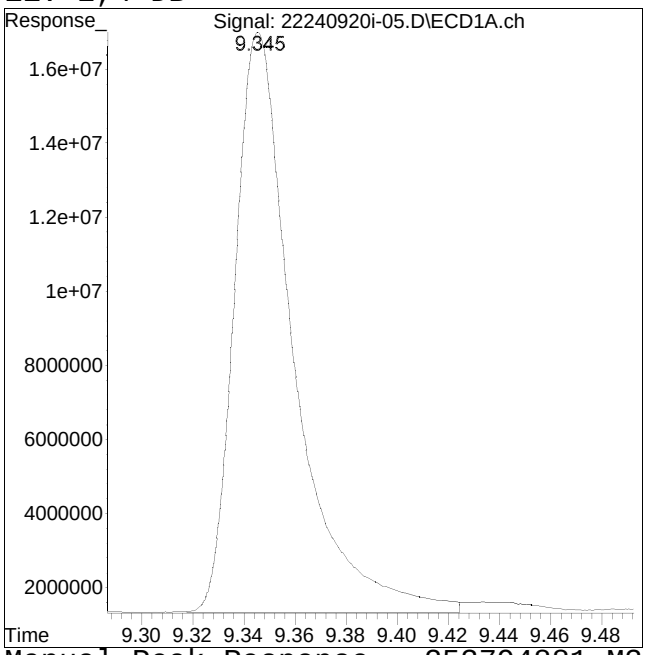
Original Peak Response = 1855360842 Manual Peak Response = 1699199126 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #11: 2,4-DB



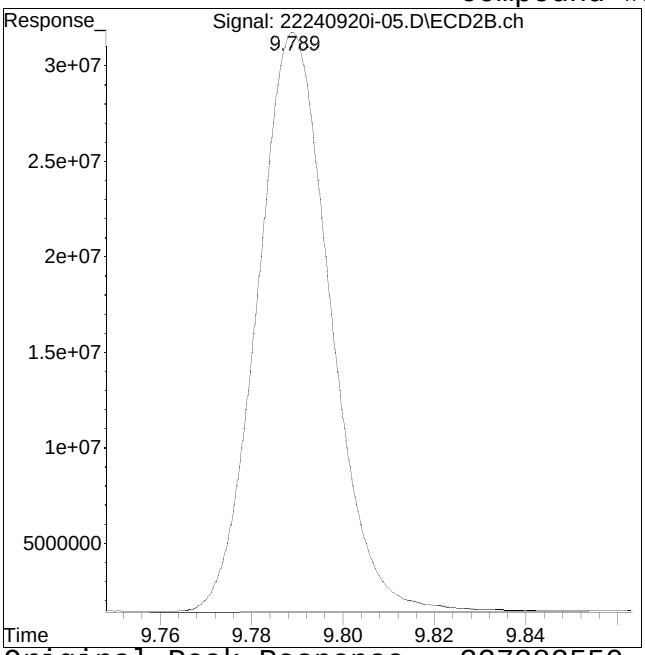


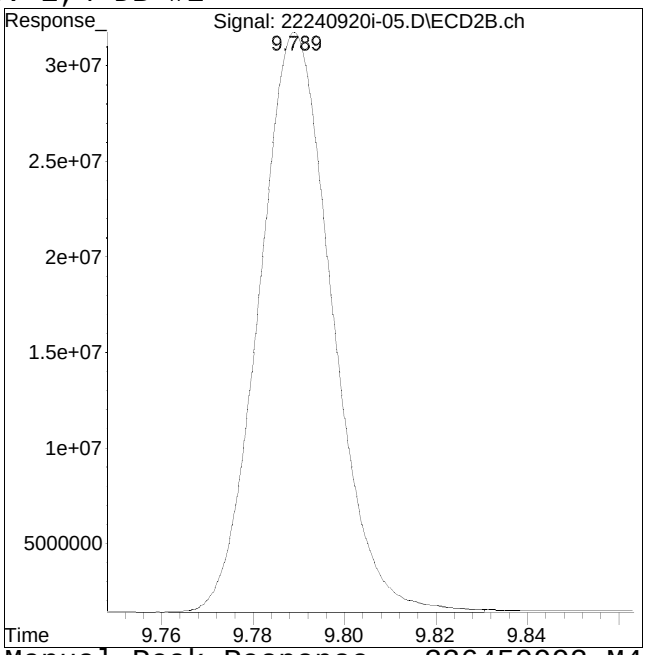
Original Peak Response = 272349078 Manual Peak Response = 253794881 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #24: 2,4-DB #2



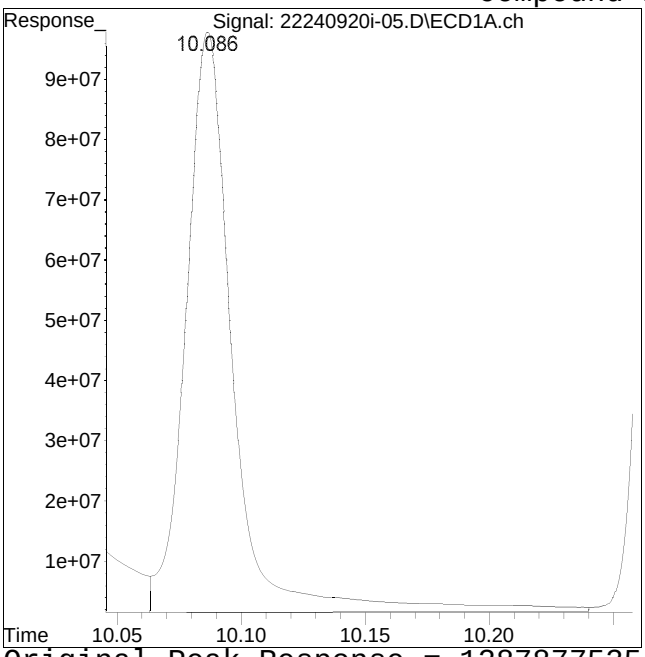


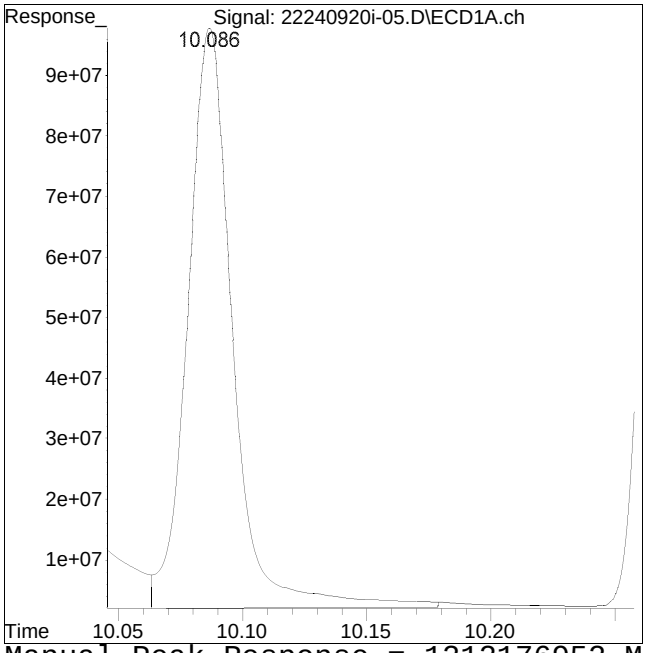
Original Peak Response = 337382550 Manual Peak Response = 336459992 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #12: Dinoseb



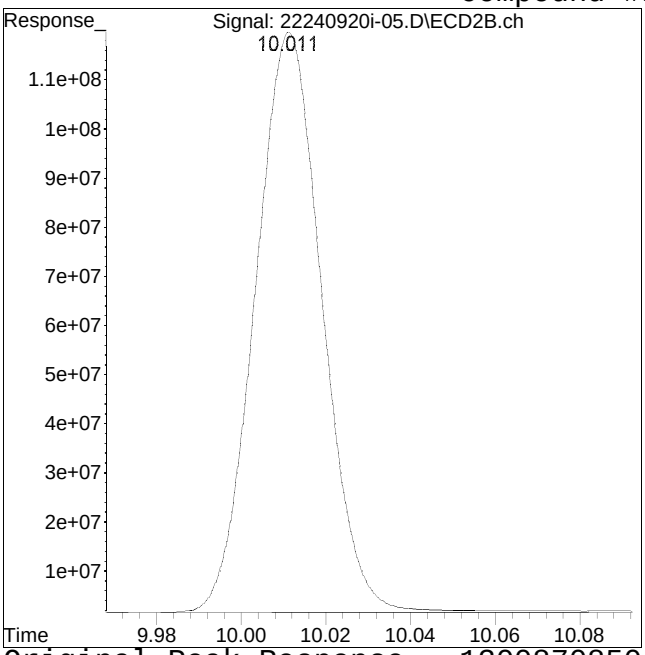


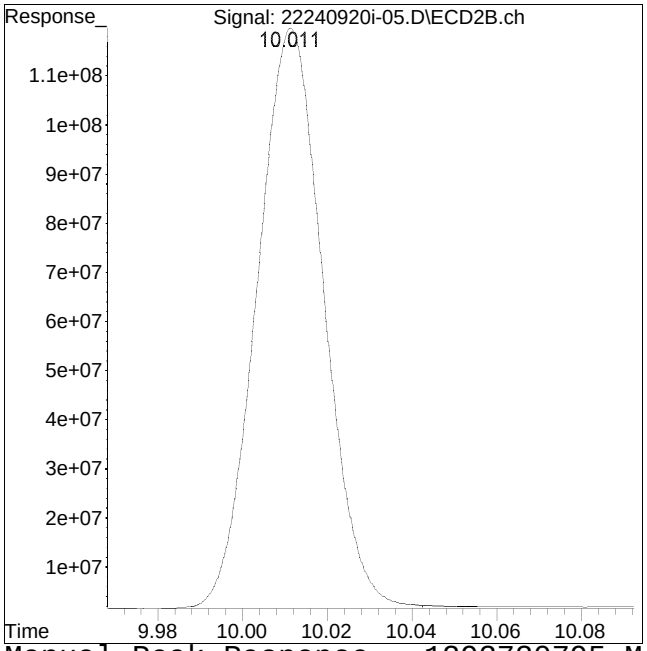
Original Peak Response = 1287877535 Manual Peak Response = 1212176952 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #25: Dinoseb #2





Original Peak Response = 1300870850 Manual Peak Response = 1293730795 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:57 pm
Operator : pest22:akm
Sample : il5herb,42e,,pp 11629 L1/100
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:18:10 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:18:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.436	8.435	1532.6E6	1855.1E6	0.250M3	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.894	7.362	915.2E6	1083.4E6	0.831M4	0.831M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	166.20%#	166.20%#
		Target Compounds						
2)	t	Dalapon	2.325	2.319	1152.2E6	1208.8E6	0.801	0.804M4
4)	t	Dicamba	7.074	7.542	2807.6E6	3186.2E6	0.842M4	0.852M4
5)	t	MCPP	7.276	7.656	293.7E6	386.6E6	94.030M4	96.121M4
6)	t	MCPA	7.423	7.883	443.2E6	579.1E6	83.934M3	86.173M4
7)	t	Dichloroprop	7.777	8.200	831.5E6	993.6E6	0.820M4	0.829M4
8)	t	2,4-D	7.991	8.476	1048.0E6	1315.7E6	0.845	0.852M4
9)	t	2,4,5-TP (Si	8.708	9.136	3958.1E6	4741.4E6	0.861M4	0.865M4
10)	t	2,4,5-T	8.930	9.426	4045.2E6	4839.8E6	0.869M4	0.890M4
11)	t	2,4-DB	9.339	9.788	606.3E6	806.0E6	0.881M4	0.901M4
12)	t	Dinoseb	10.085	10.011	2799.3E6	3024.5E6	0.877M4	0.872M4
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:57 pm
Operator : pest22:akm
Sample : il5herb,42e,,pp 11629 L1/100
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:18:10 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:18:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

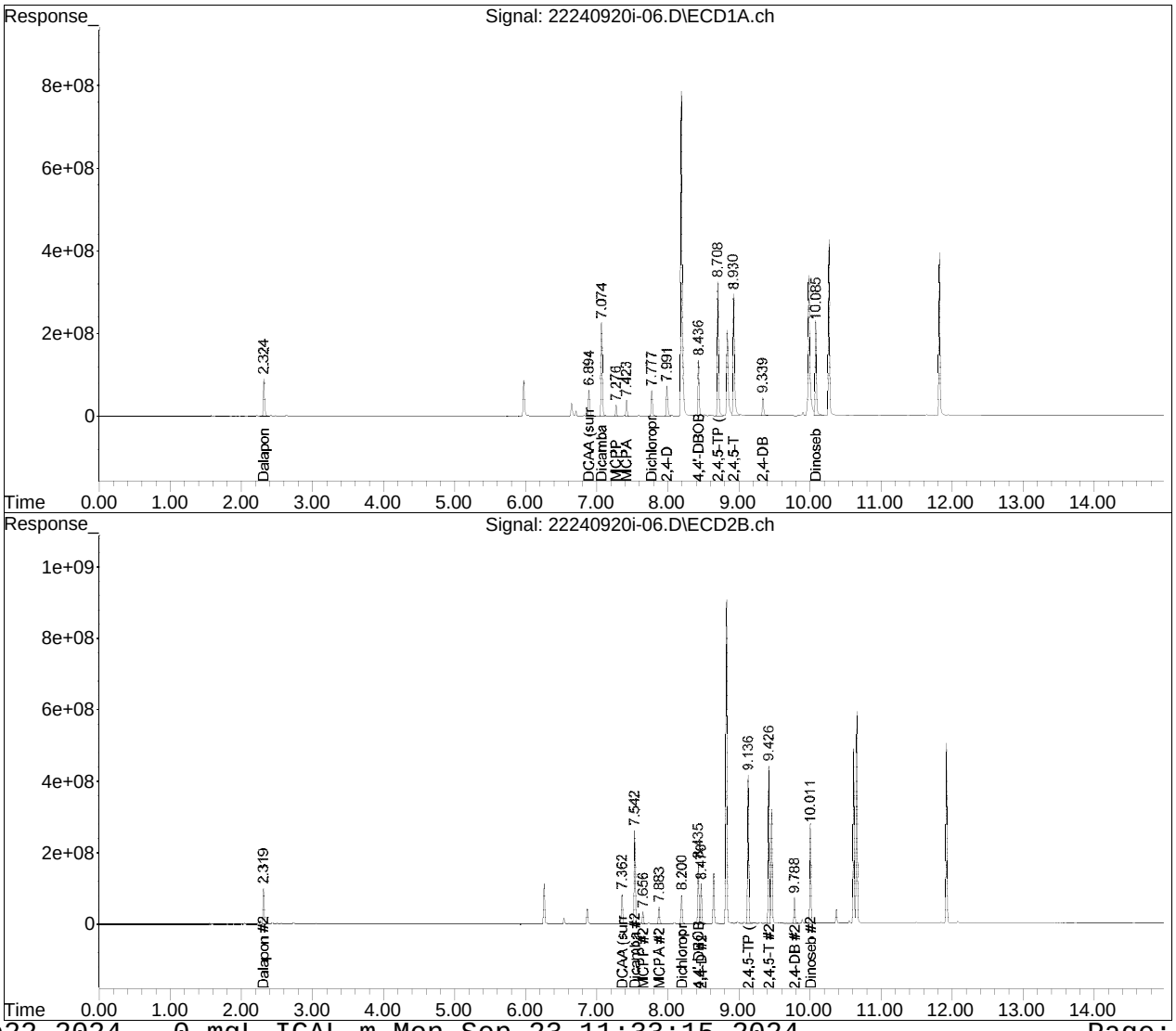
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:57 pm
Operator : pest22:akm
Sample : il5herb,42e,,pp 11629 L1/100
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:18:10 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:18:02 2024
Response via : Initial Calibration
Integrator: ChemStation

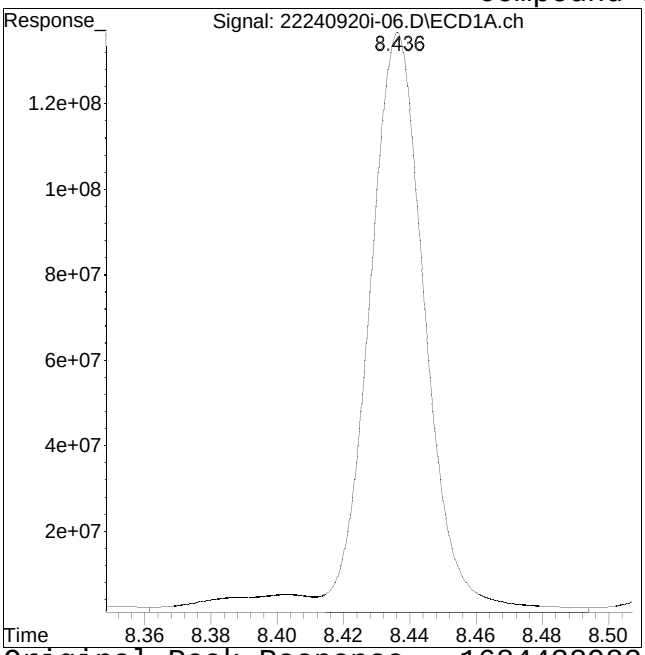
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

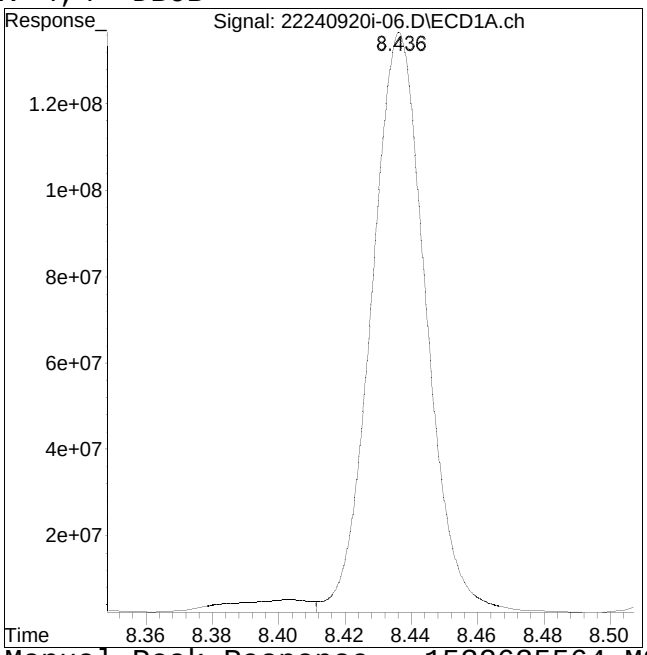


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #1: 4,4'-DBOB



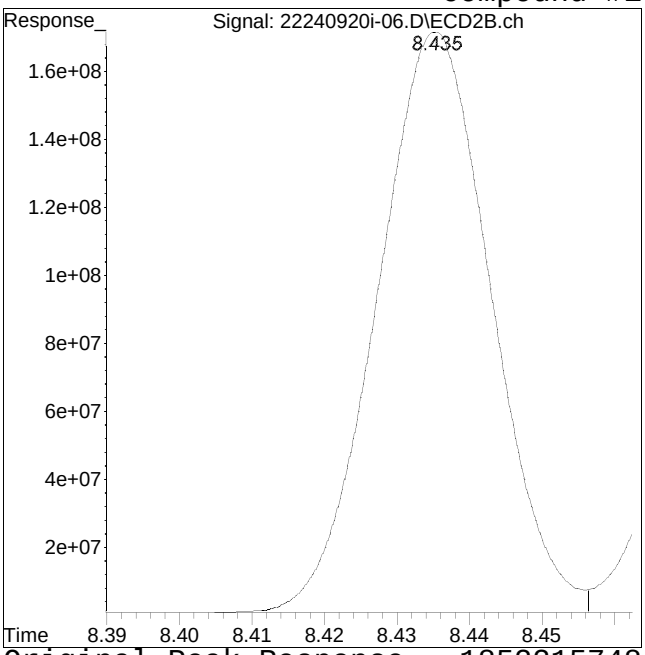


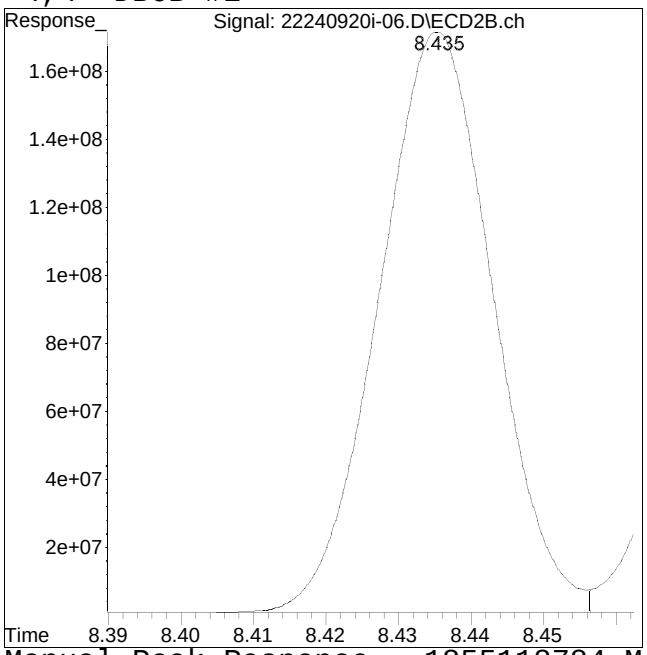
Original Peak Response = 1684432982 Manual Peak Response = 1532635564 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #14: 4,4'-DBOB #2



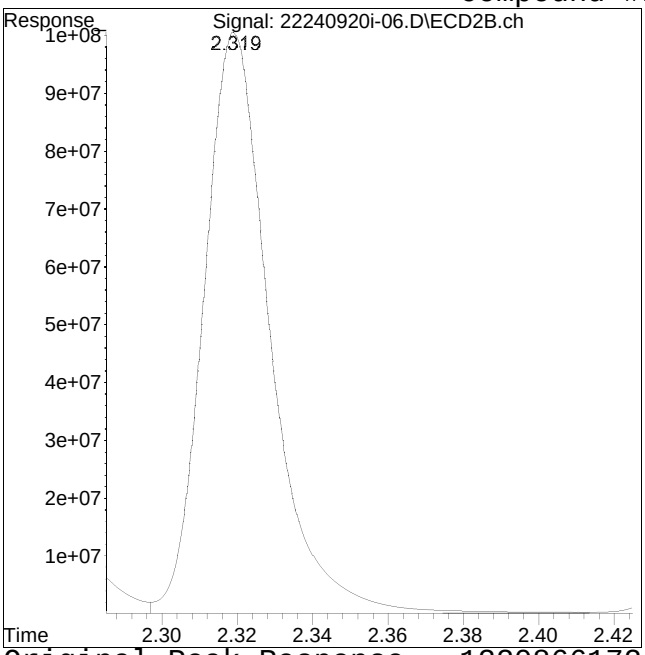


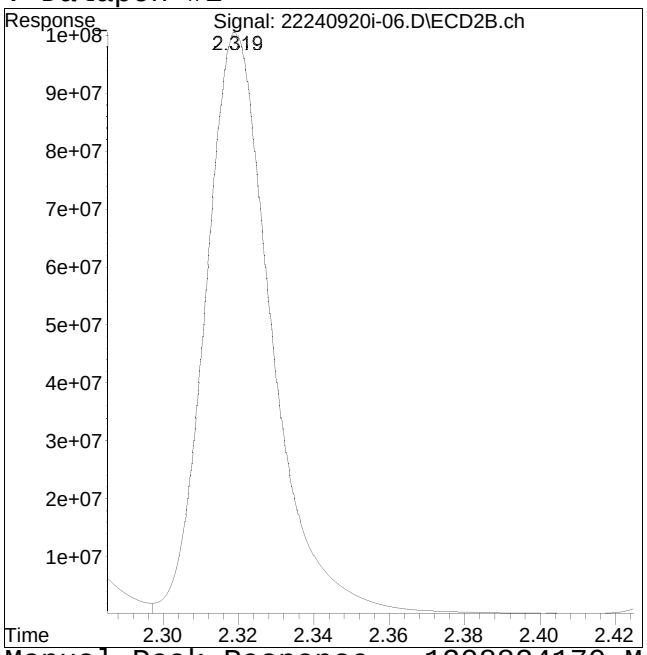
Original Peak Response = 1852215748 Manual Peak Response = 1855118784 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #15: Dalapon #2



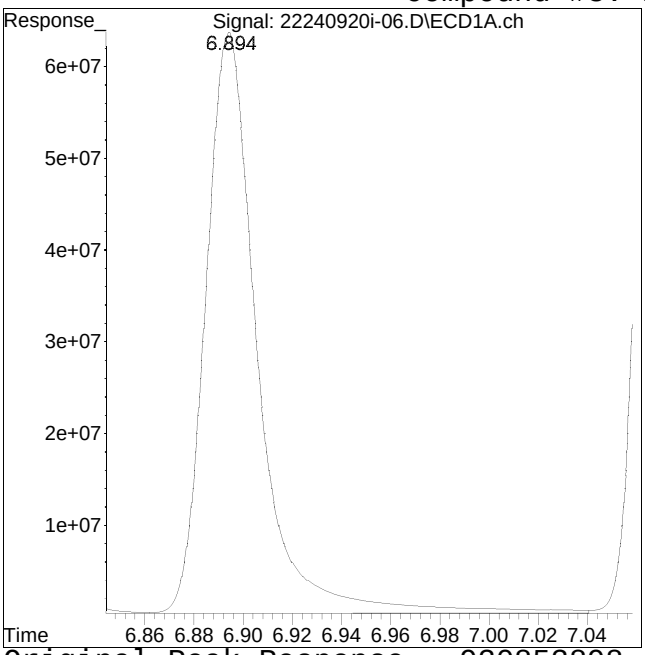


Original Peak Response = 1220866172 Manual Peak Response = 1208824170 M4
M4 = Poor automated baseline construction.

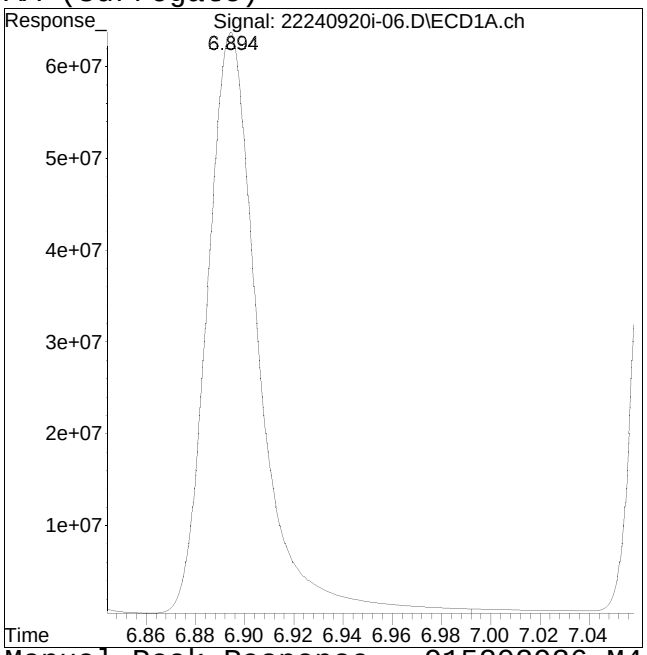
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #3: DCAA (surrogate)



Original Peak Response = 930853898



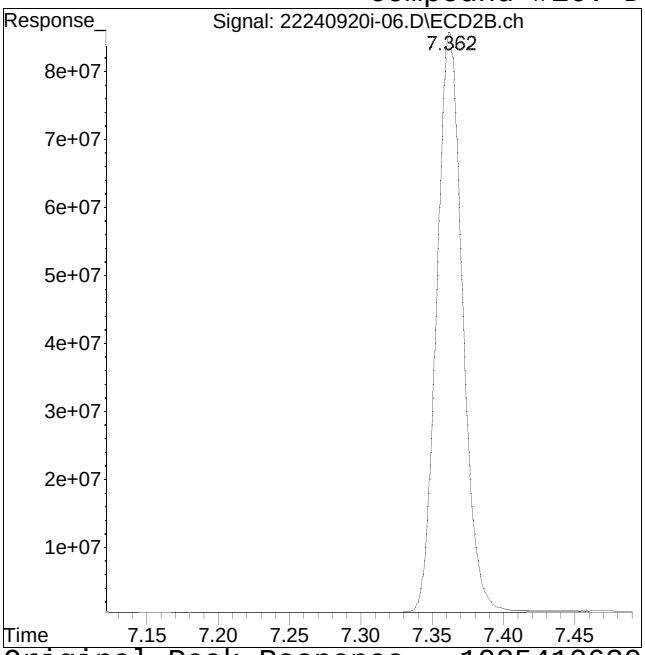
Manual Peak Response = 915202936 M4

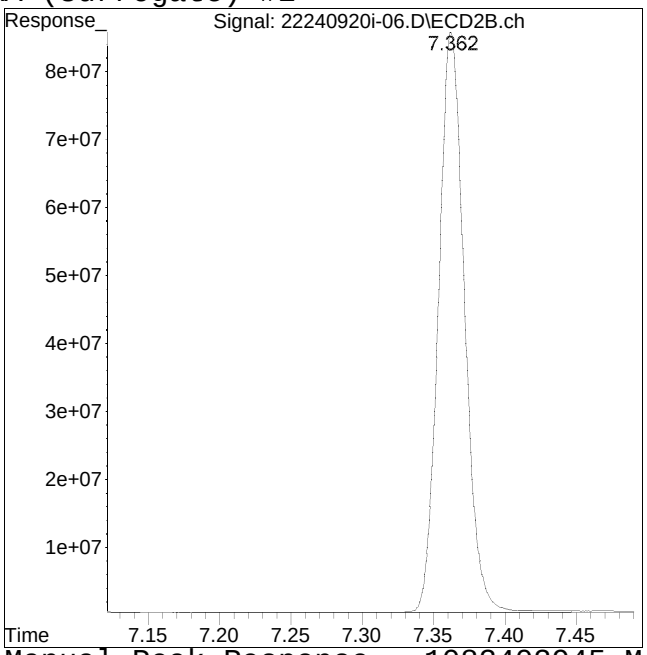
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #16: DCAA (surrogate) #2



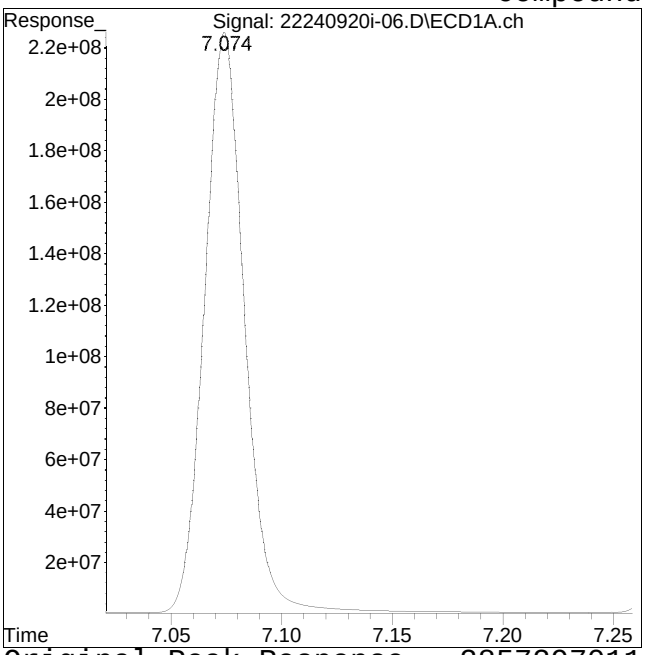


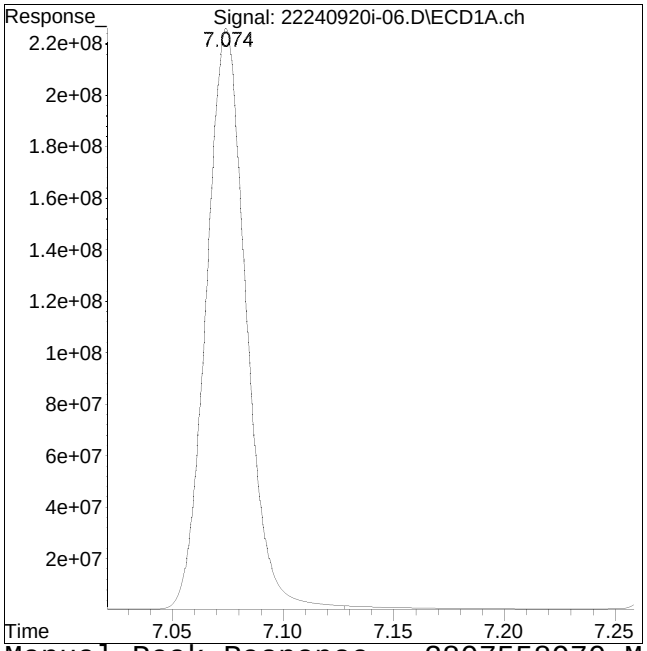
Original Peak Response = 1085410630 Manual Peak Response = 1083403945 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #4: Dicamba



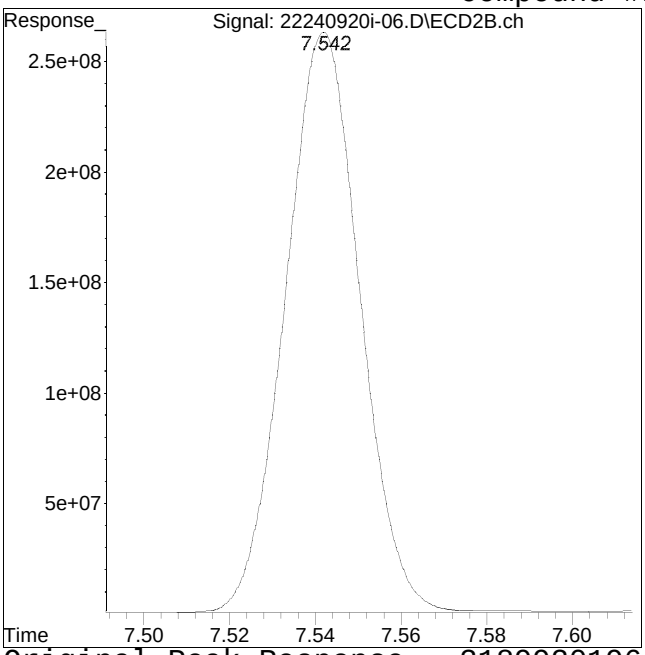


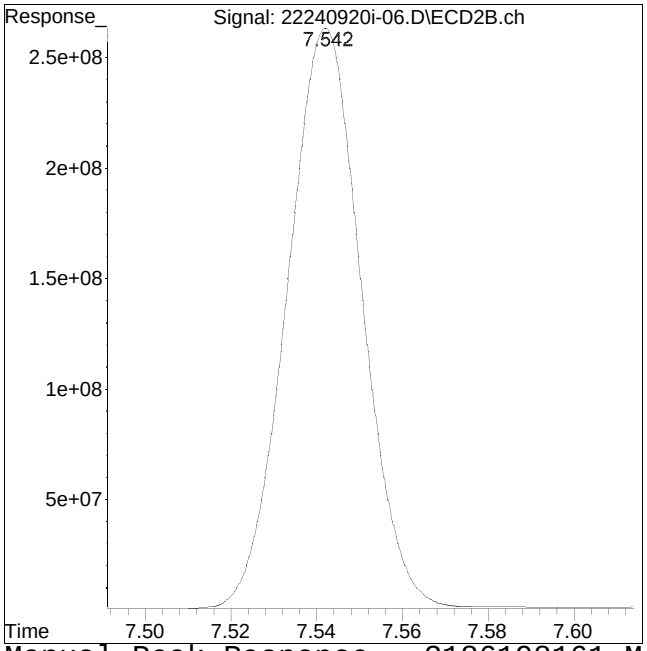
Original Peak Response = 2857297011 Manual Peak Response = 2807558970 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #17: Dicamba #2



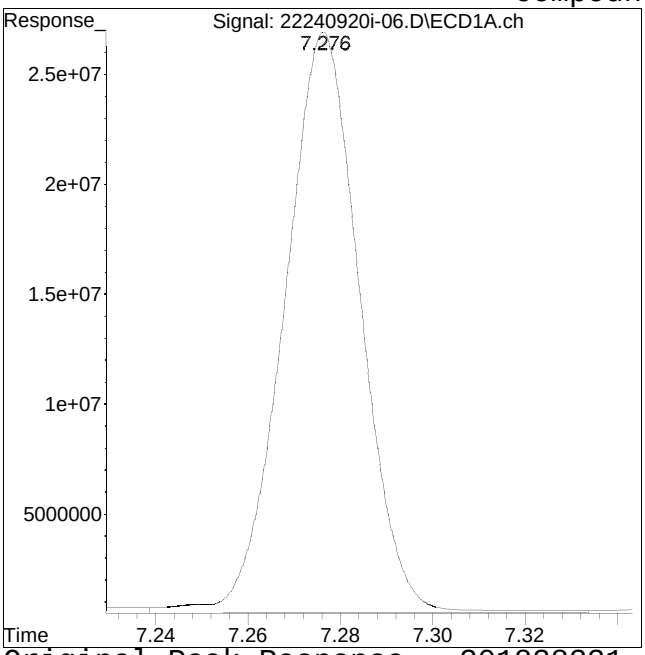


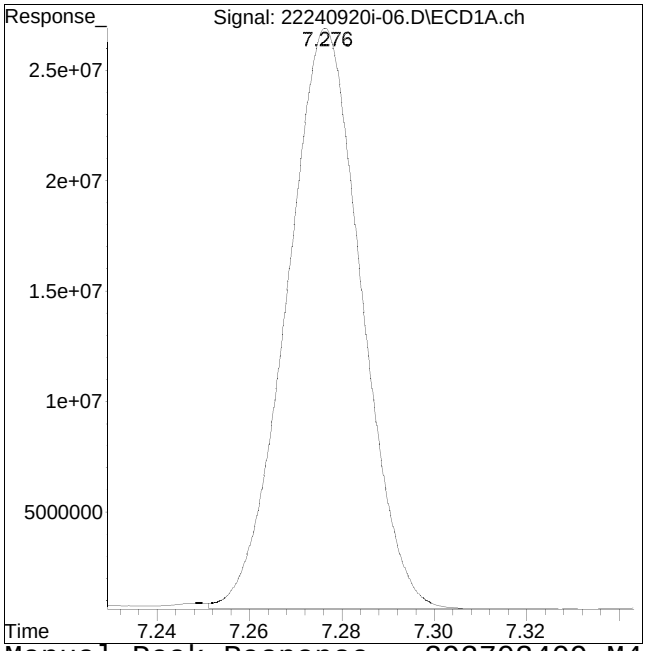
Original Peak Response = 3189920196 Manual Peak Response = 3186198161 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #5: MCPP



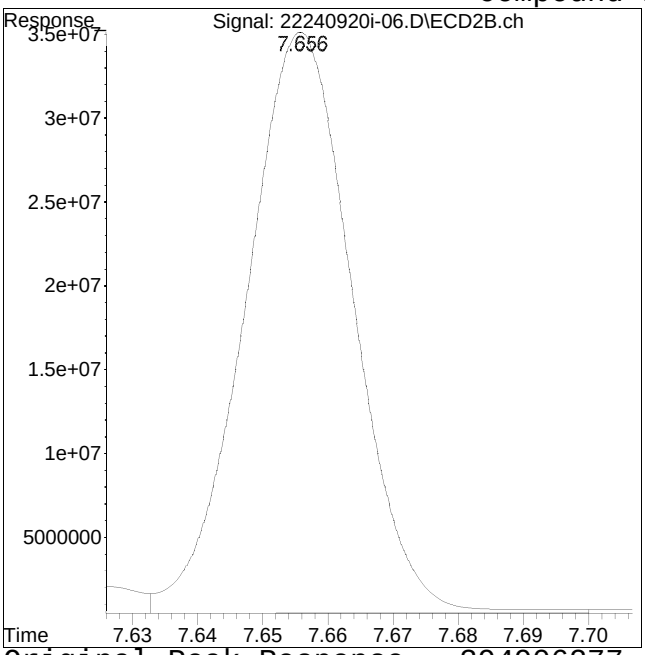


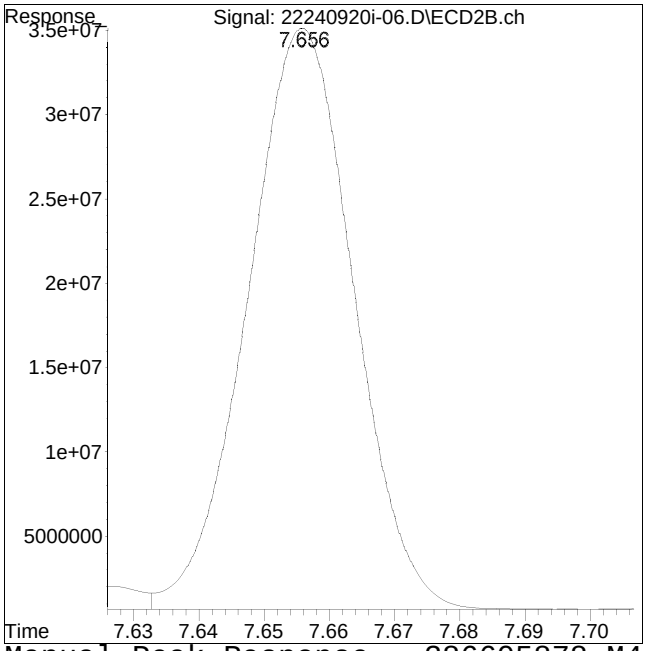
Original Peak Response = 301838331 Manual Peak Response = 293703409 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #18: MCPP #2



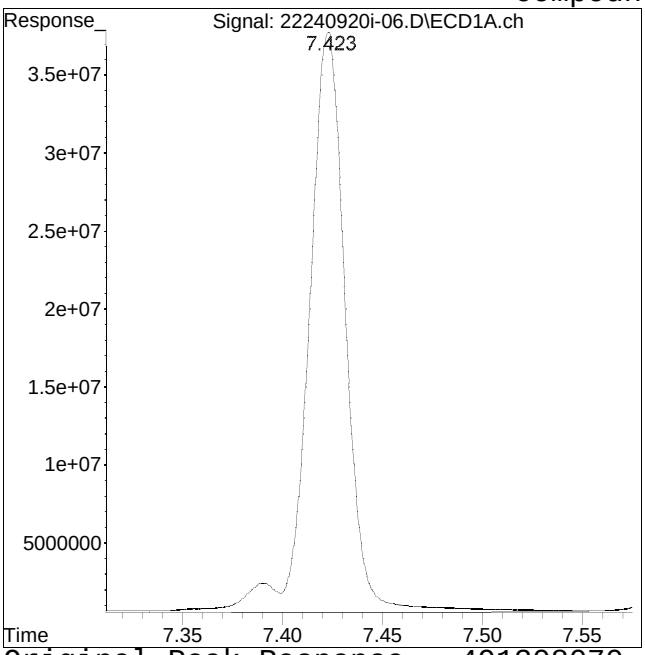


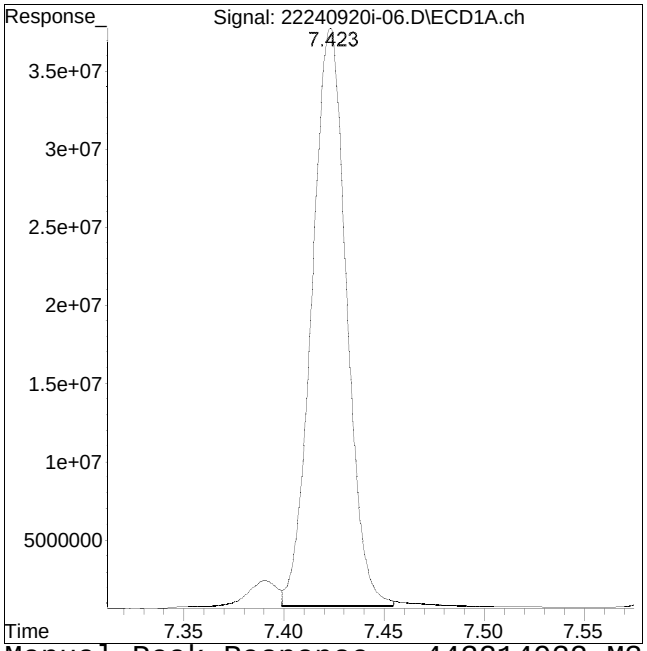
Original Peak Response = 394906277 Manual Peak Response = 386605878 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #6: MCPA



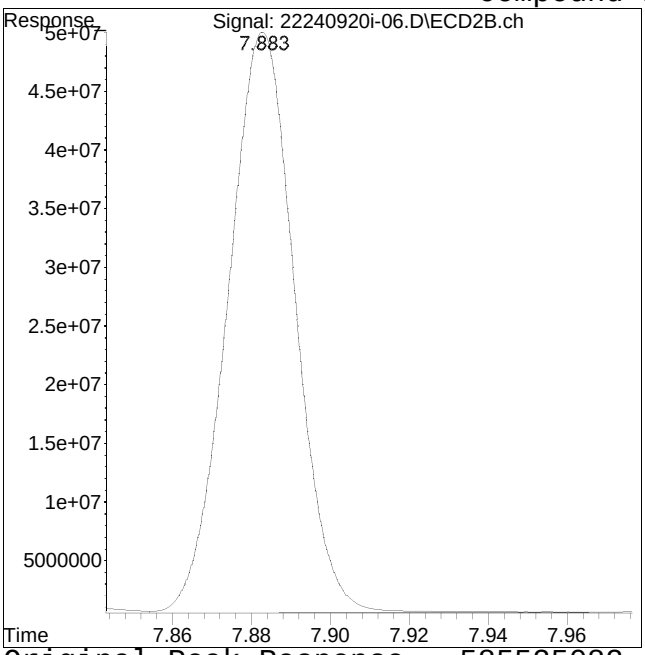


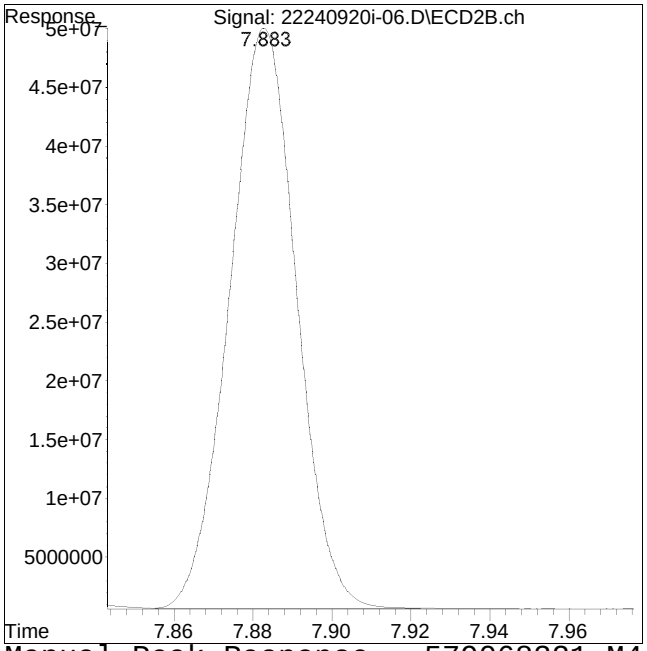
Original Peak Response = 491308070 Manual Peak Response = 443214932 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #19: MCPA #2



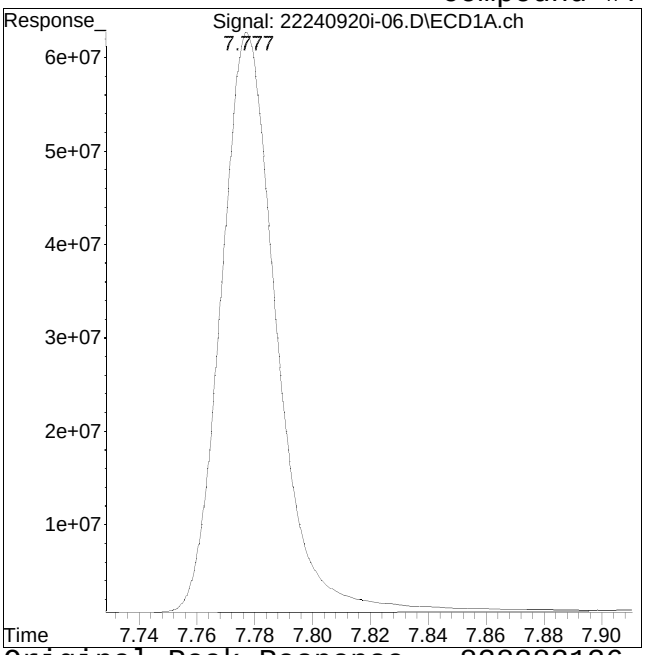


Original Peak Response = 585525082 Manual Peak Response = 579068321 M4
M4 = Poor automated baseline construction.

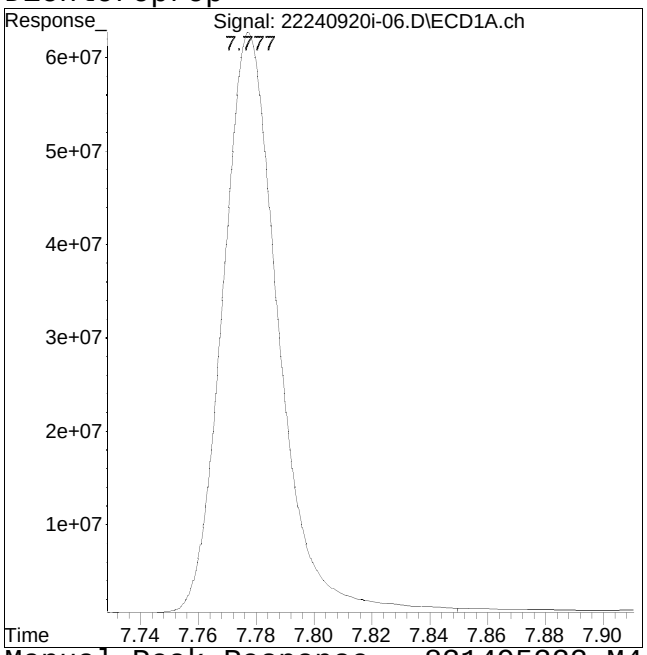
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #7: Dichloroprop



Original Peak Response = 838383136

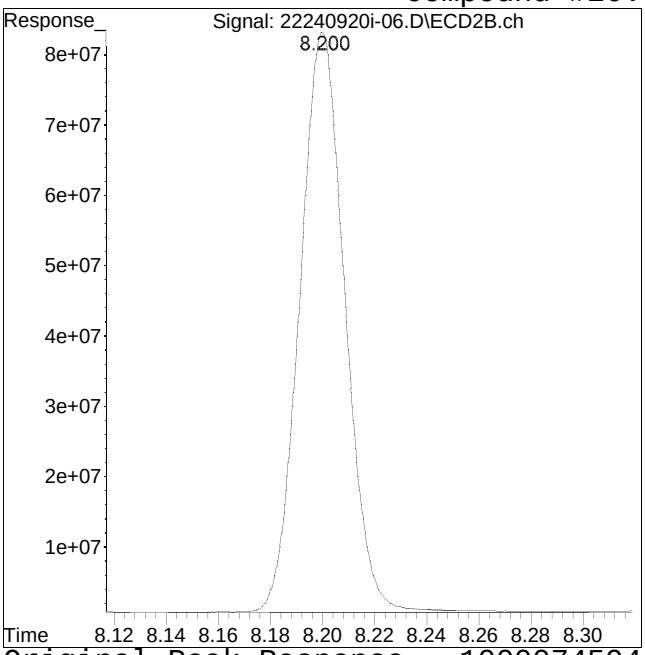


Manual Peak Response = 831495322 M4
M4 = Poor automated baseline construction.

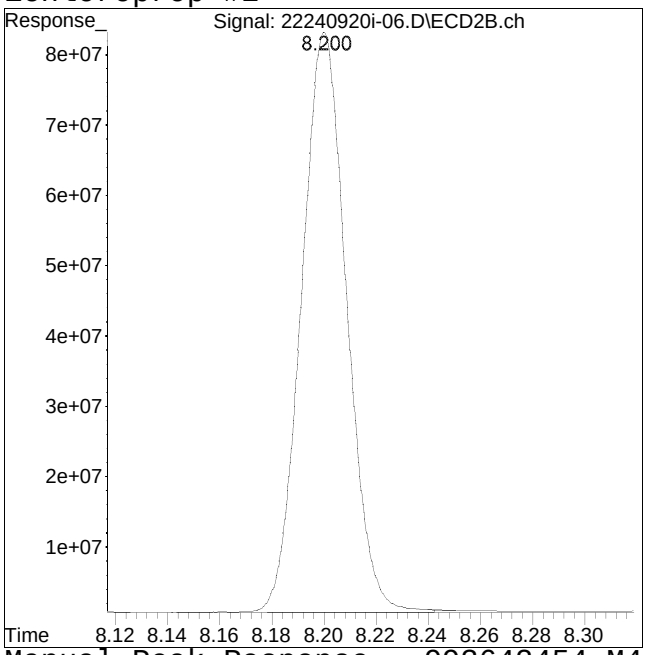
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #20: Dichloroprop #2



Original Peak Response = 1000074594



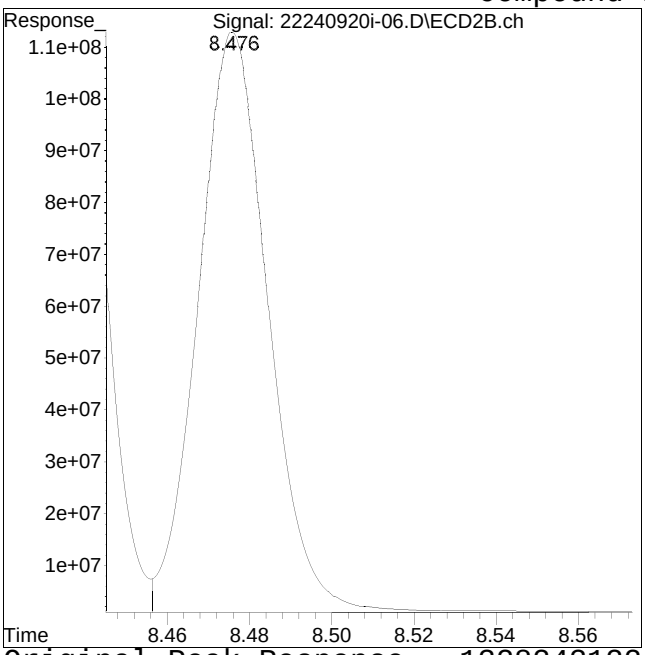
Manual Peak Response = 993642454 M4

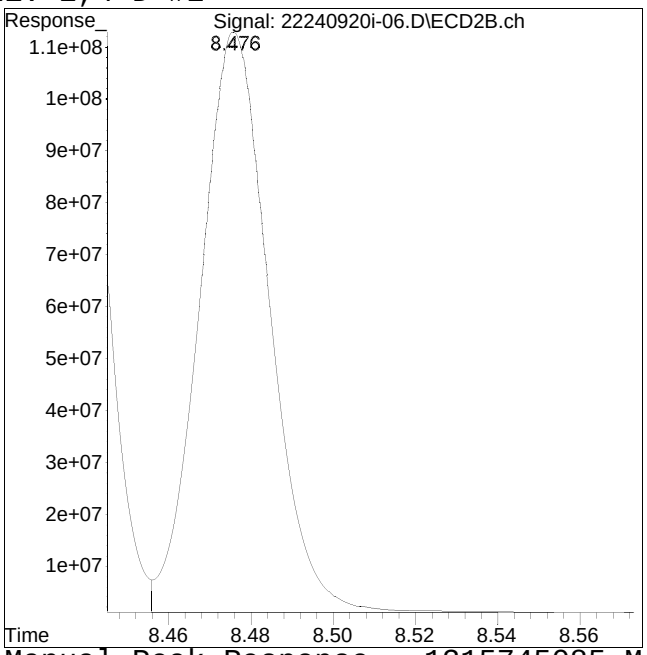
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #21: 2,4-D #2



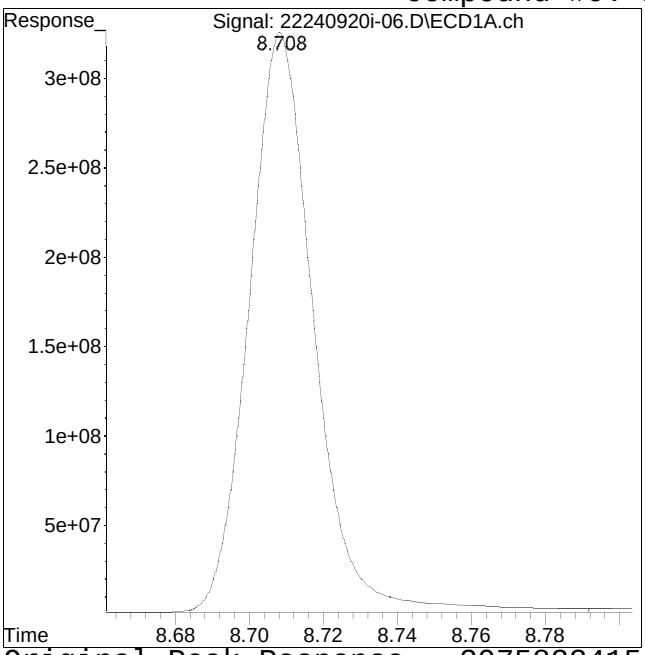


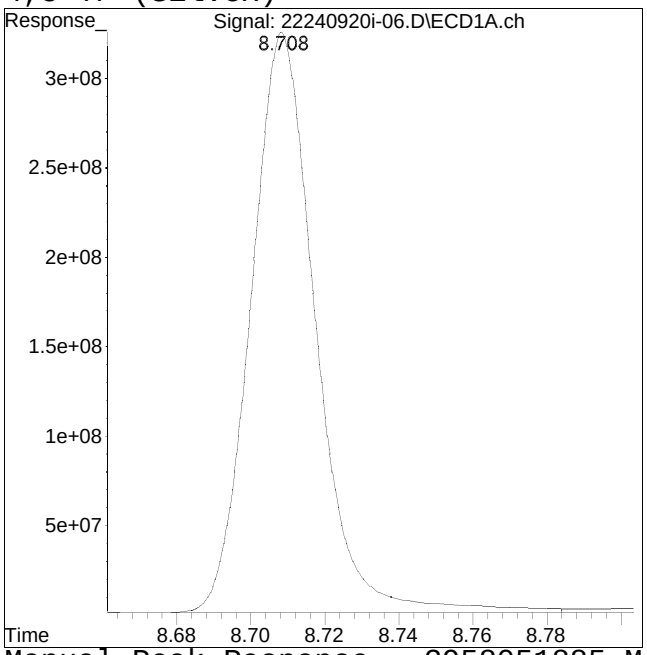
Original Peak Response = 1328243122 Manual Peak Response = 1315745085 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #9: 2,4,5-TP (Silvex)



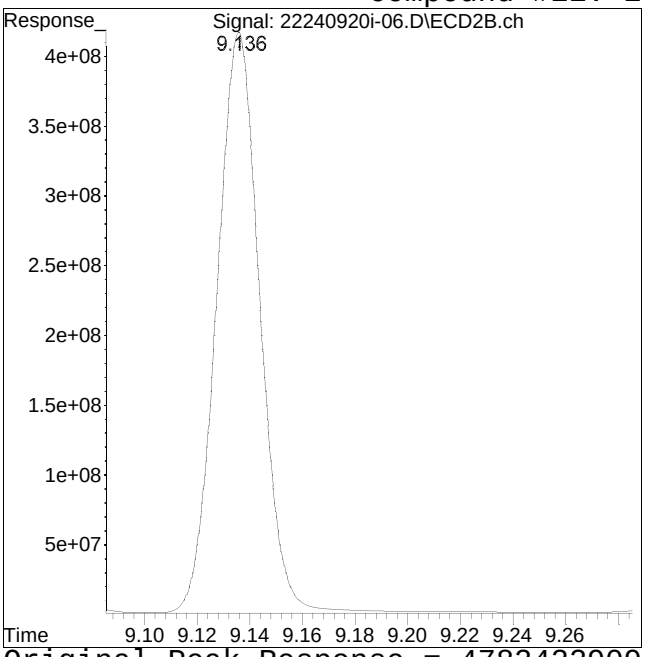


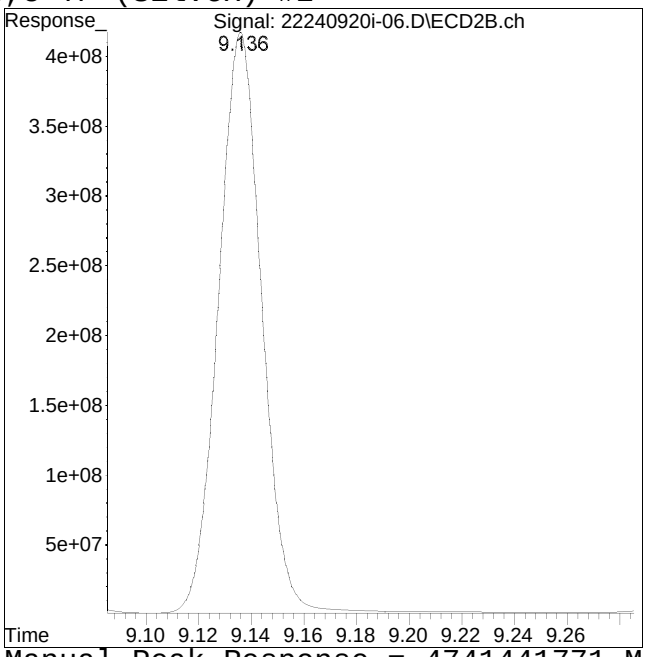
Original Peak Response = 3975823415 Manual Peak Response = 3958051885 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #22: 2,4,5-TP (Silvex) #2



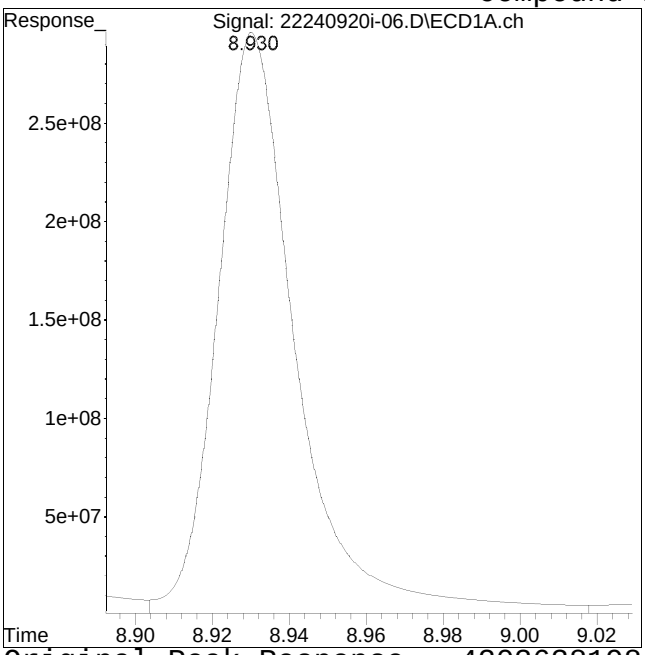


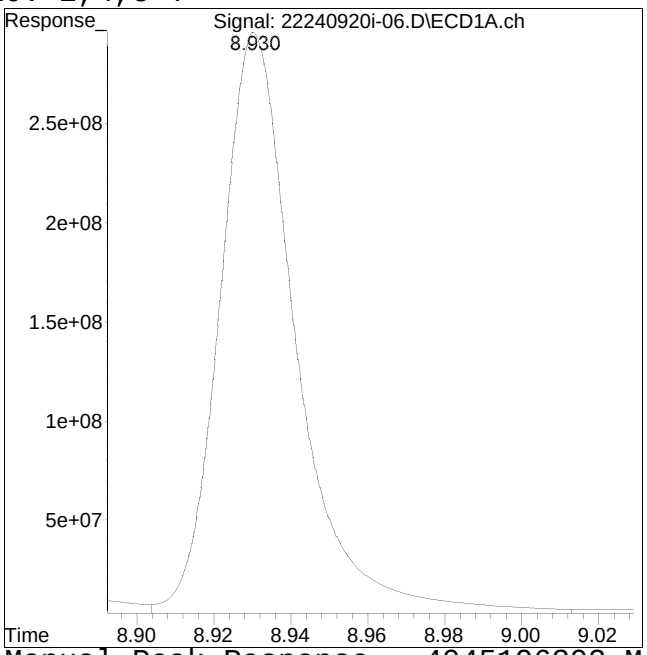
Original Peak Response = 4782422909 Manual Peak Response = 4741441771 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #10: 2,4,5-T



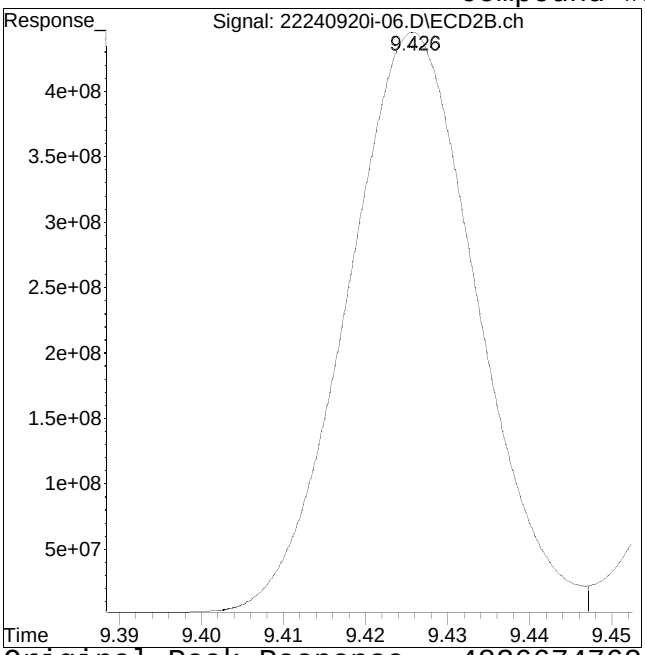


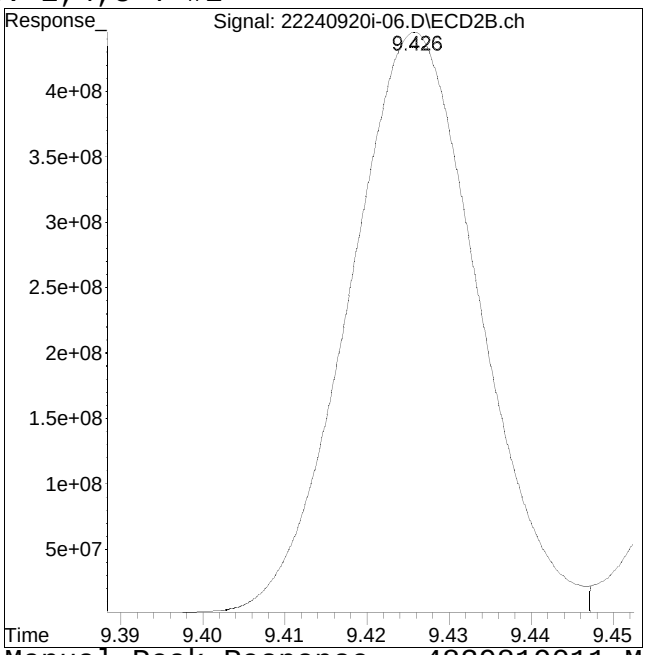
Original Peak Response = 4203638198 Manual Peak Response = 4045196302 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #23: 2,4,5-T #2



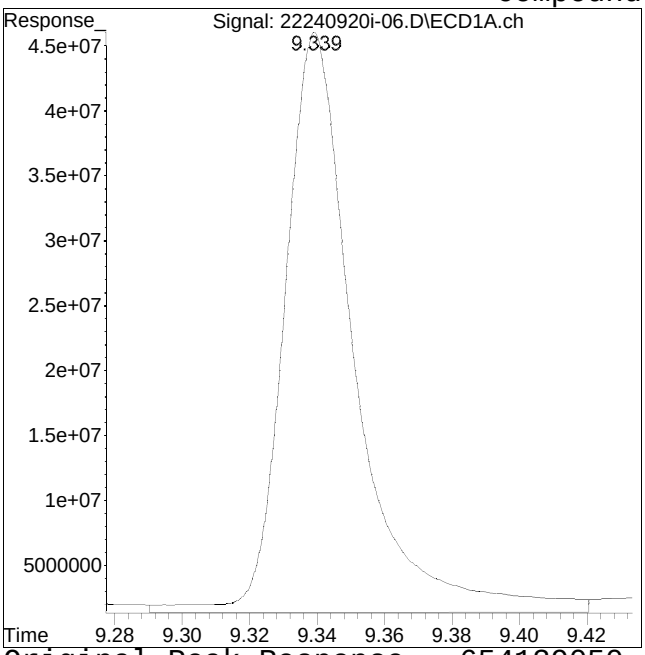


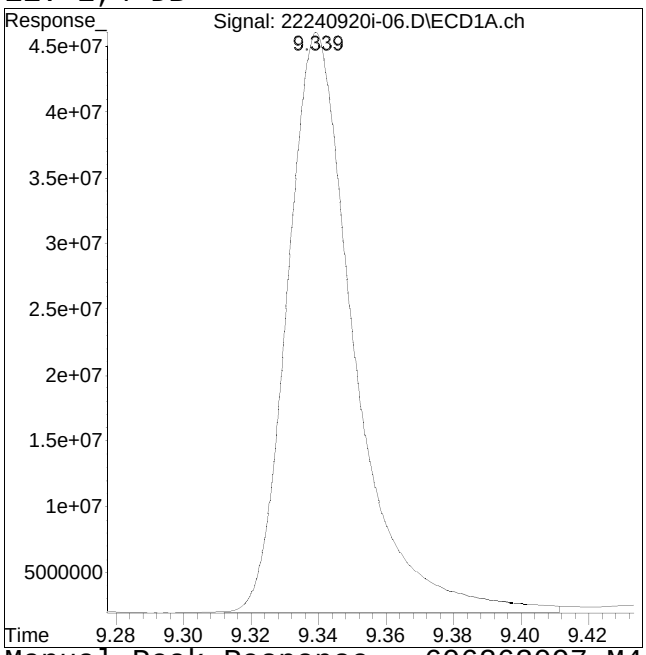
Original Peak Response = 4836674762 Manual Peak Response = 4839819011 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #11: 2,4-DB



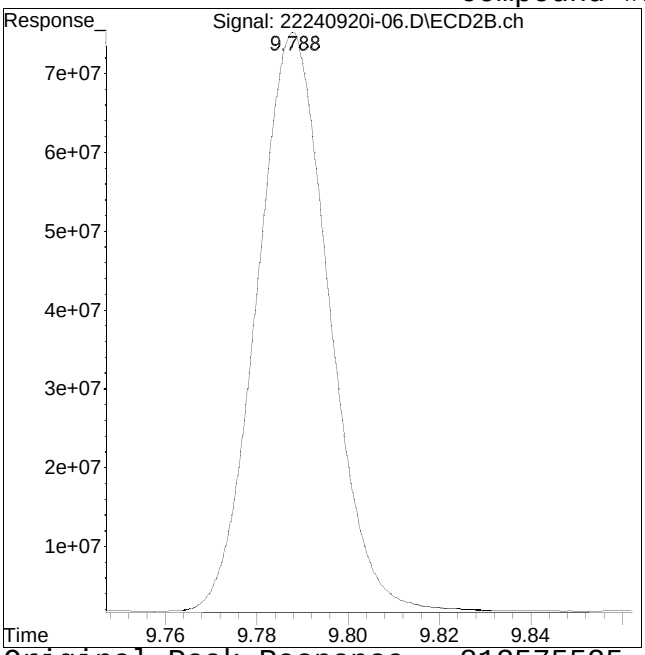


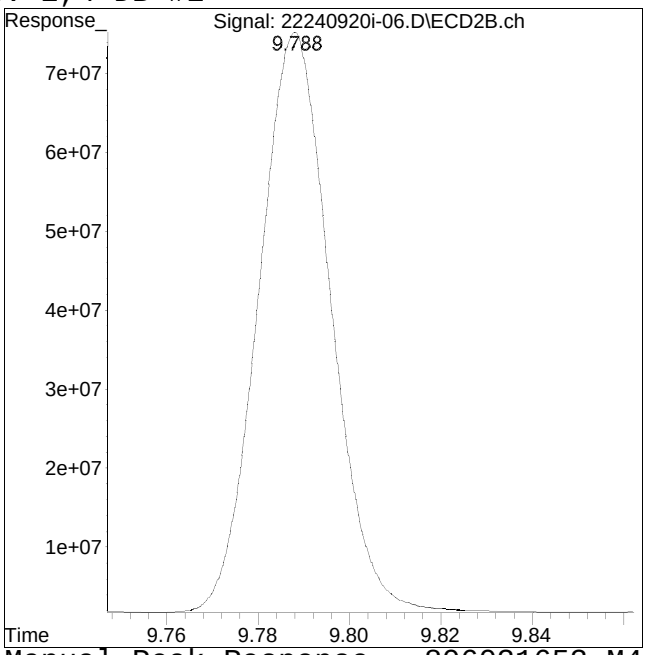
Original Peak Response = 654139050 Manual Peak Response = 606263097 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #24: 2,4-DB #2



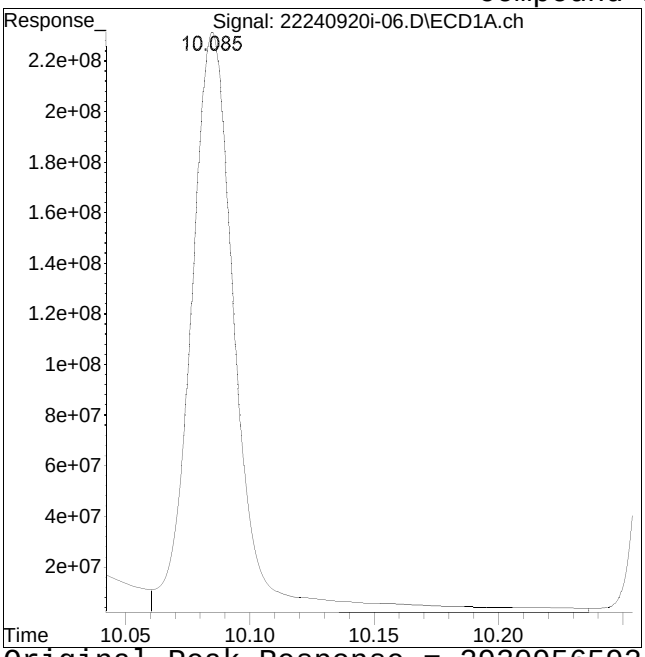


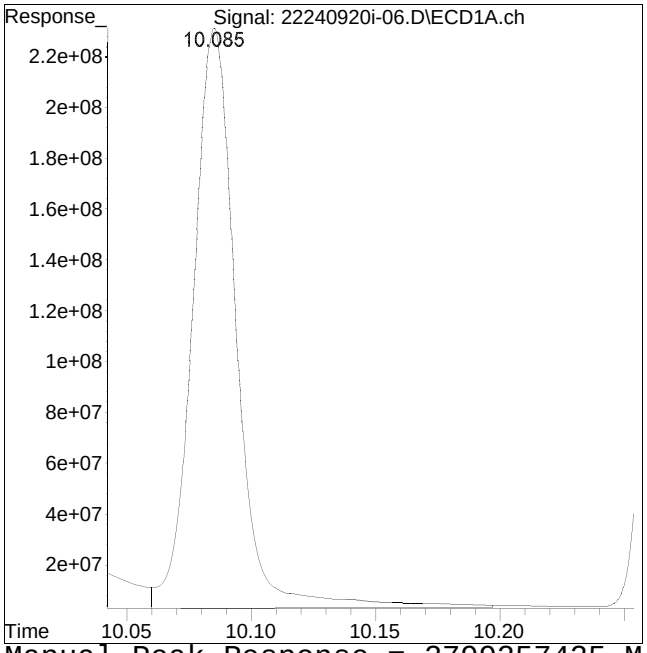
Original Peak Response = 812575525 Manual Peak Response = 806031653 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #12: Dinoseb



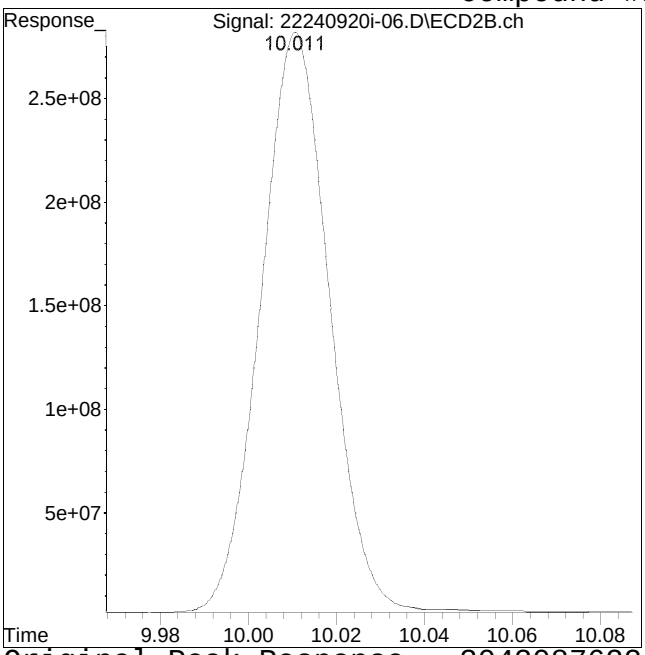


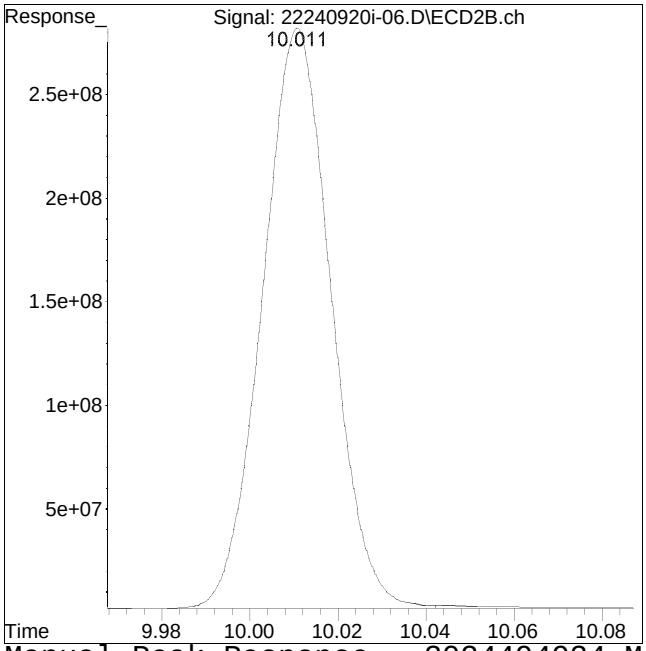
Original Peak Response = 2930956592 Manual Peak Response = 2799257425 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #25: Dinoseb #2





Original Peak Response = 3043087622 Manual Peak Response = 3024494934 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 01:15 pm
Operator : pest22:akm
Sample : il6herb,42e,,pp 11628 L2/200
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:22:56 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:22:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.436	8.435	1438.5E6	1699.0E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.893	7.361	1579.8E6	1885.6E6	1.604M4	1.644M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	320.80%#	328.80%#
		Target Compounds						
2)	t	Dalapon	2.326	2.321	2051.2E6	2176.5E6	1.584M4	1.634M4
4)	t	Dicamba	7.074	7.541	5099.0E6	5716.3E6	1.686M4	1.717M4
5)	t	MCPP	7.279	7.658	555.6E6	731.0E6	189.132M4	195.725M4
6)	t	MCPA	7.425	7.885	805.6E6	1049.9E6	167.836M4	174.202M4
7)	t	Dichloroprop	7.776	8.199	1445.0E6	1739.5E6	1.595M4	1.649M4
8)	t	2,4-D	7.988	8.475	1880.9E6	2368.0E6	1.675	1.722M4
9)	t	2,4,5-TP (Si	8.707	9.135	7054.9E6	8507.5E6	1.694M4	1.742M4
10)	t	2,4,5-T	8.929	9.425	7389.1E6	8840.9E6	1.738M4	1.805M4
11)	t	2,4-DB	9.337	9.787	1082.2E6	1447.5E6	1.731M4	1.803M4
12)	t	Dinoseb	10.085	10.010	5021.9E6	5486.8E6	1.739M4	1.768M4
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 01:15 pm
Operator : pest22:akm
Sample : il6herb,42e,,pp 11628 L2/200
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:22:56 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:22:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

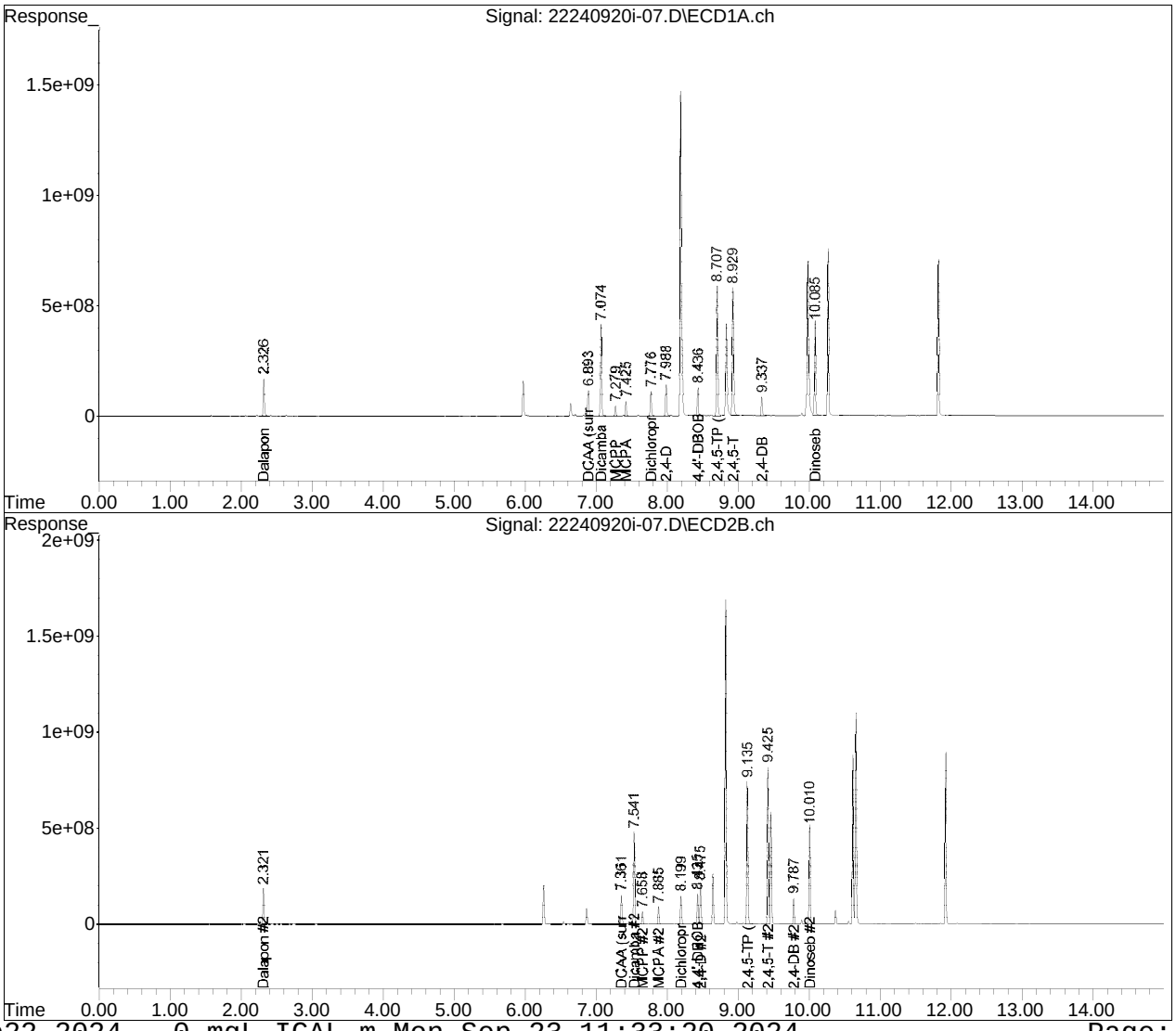
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 01:15 pm
Operator : pest22:akm
Sample : il6herb,42e,,pp 11628 L2/200
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:22:56 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:22:48 2024
Response via : Initial Calibration
Integrator: ChemStation

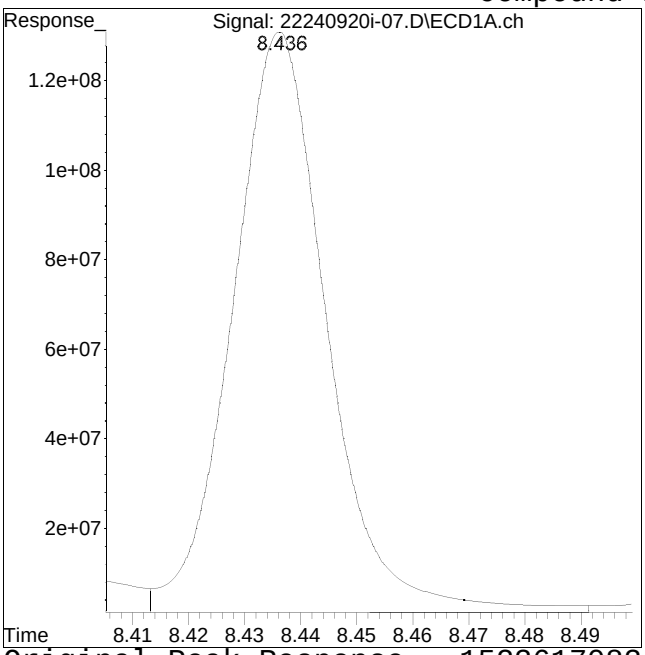
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

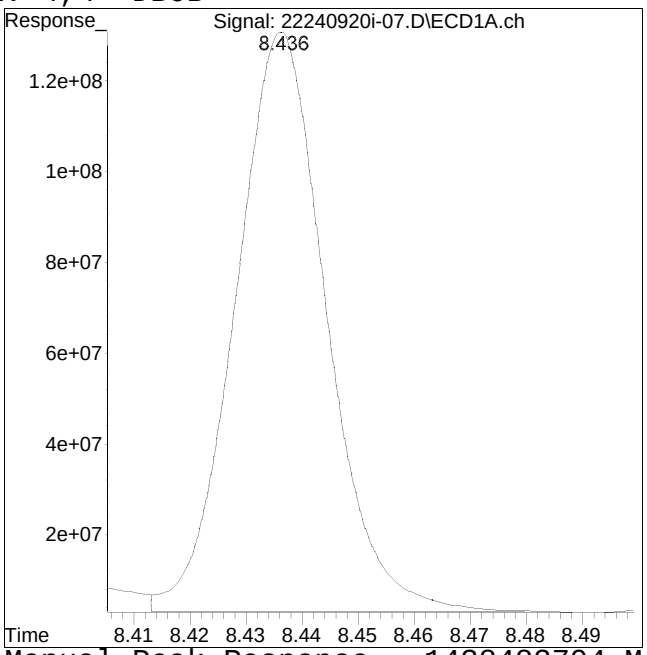


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #1: 4,4'-DBOB



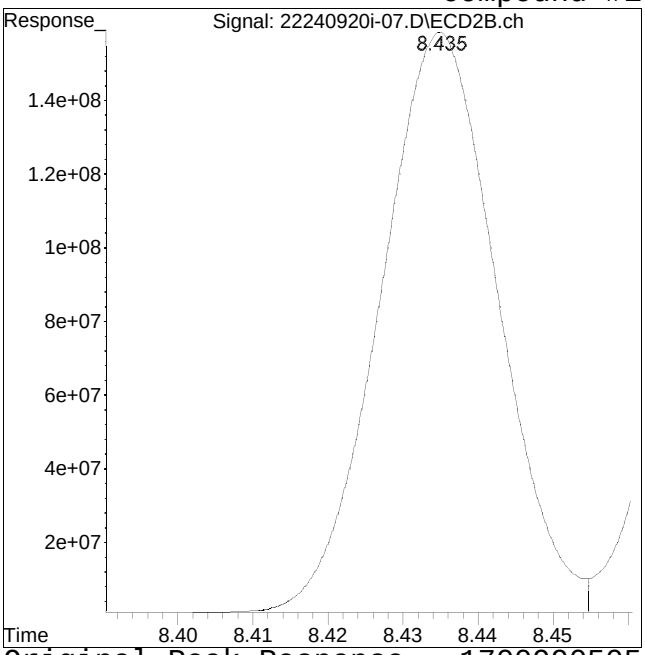


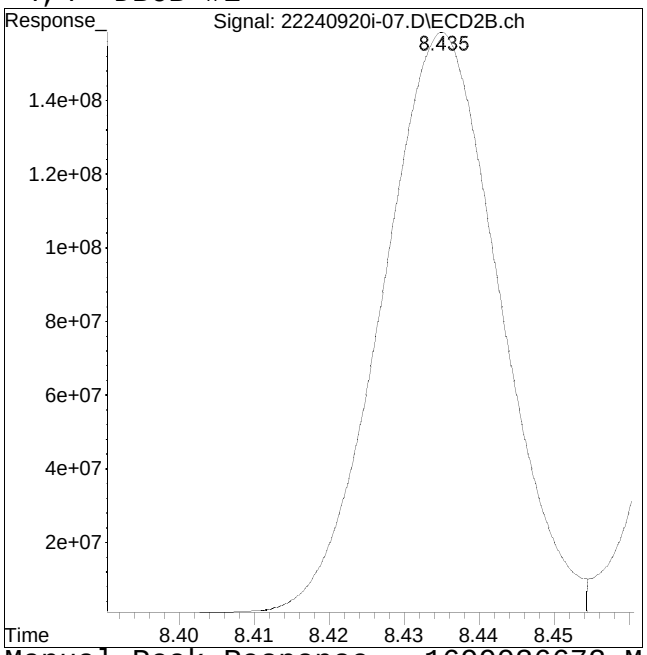
Original Peak Response = 1523617083 Manual Peak Response = 1438483704 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #14: 4,4'-DBOB #2



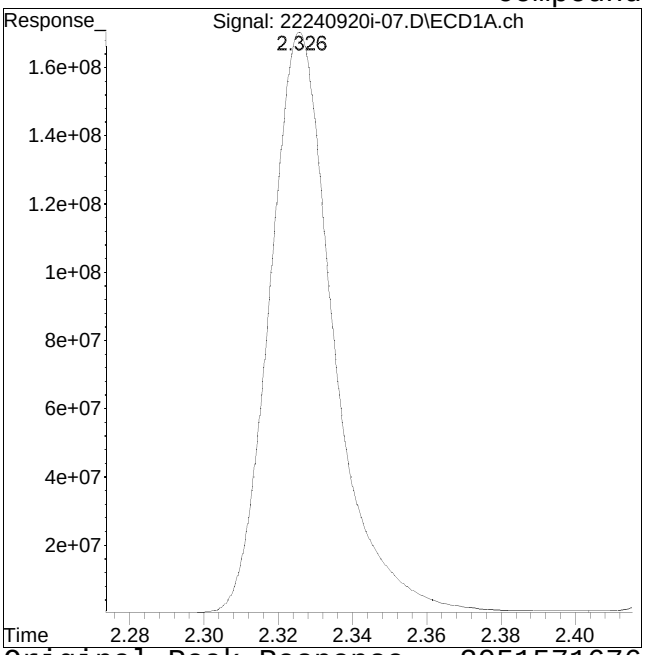


Original Peak Response = 1700990505 Manual Peak Response = 1699036672 M4
M4 = Poor automated baseline construction.

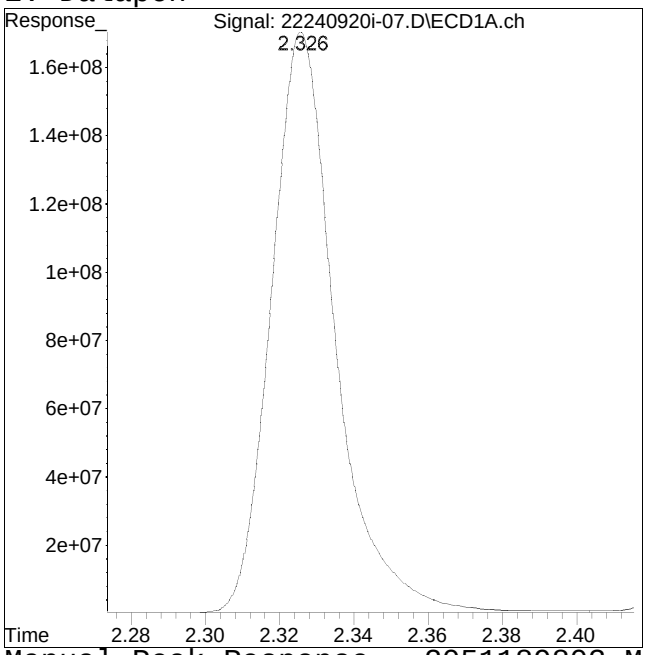
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #2: Dalapon



Original Peak Response = 2051571676

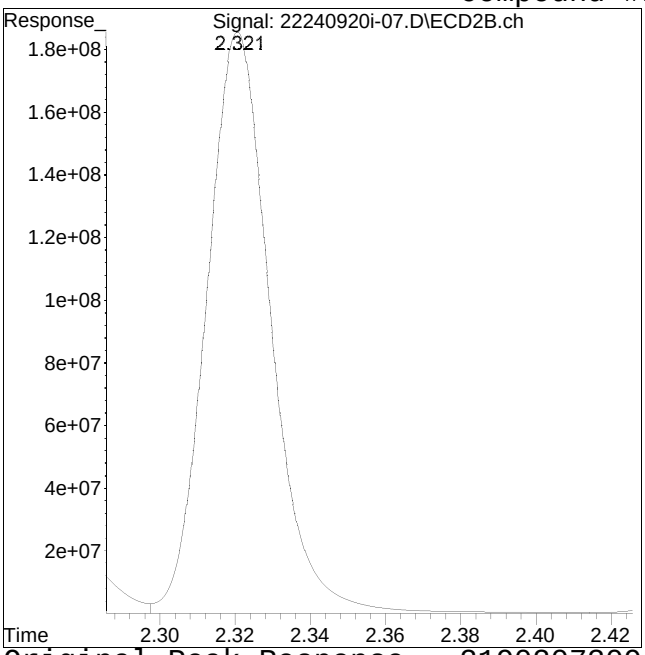


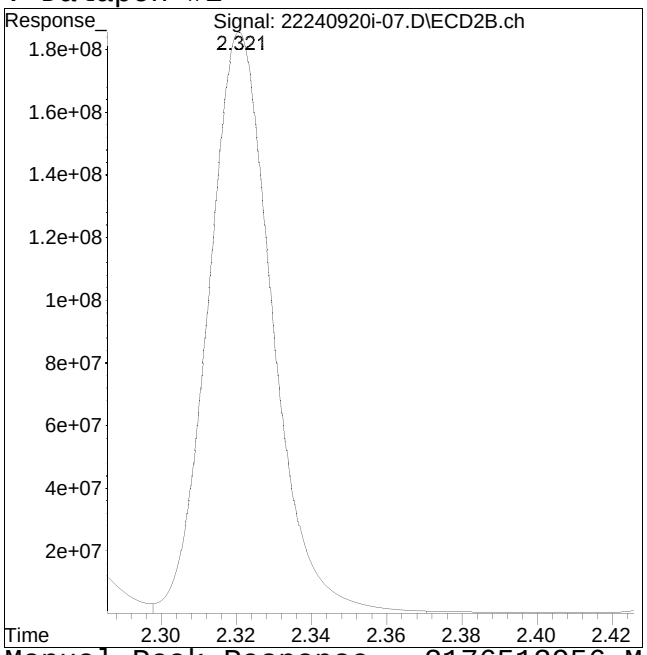
Manual Peak Response = 2051189803 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #15: Dalapon #2



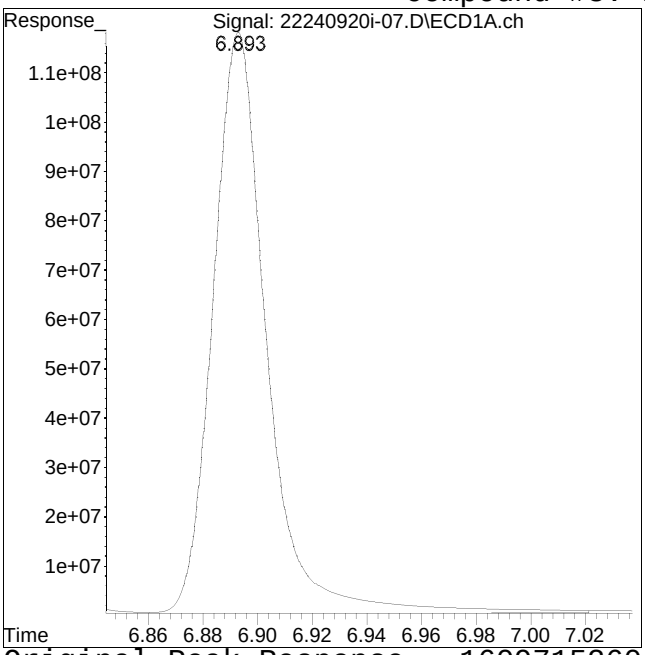


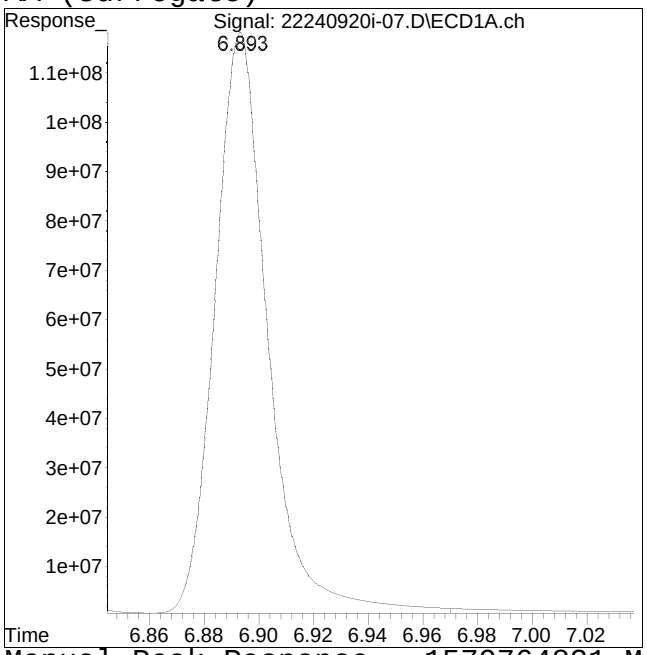
Original Peak Response = 2190207309 Manual Peak Response = 2176513956 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #3: DCAA (surrogate)



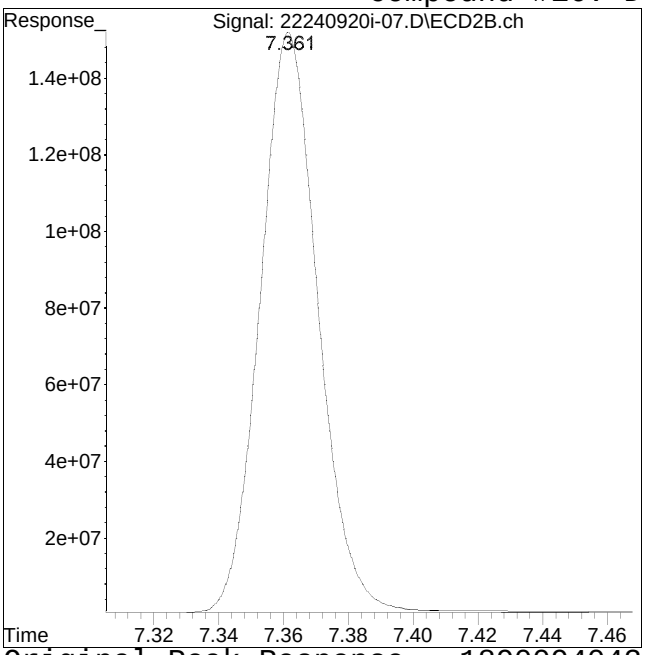


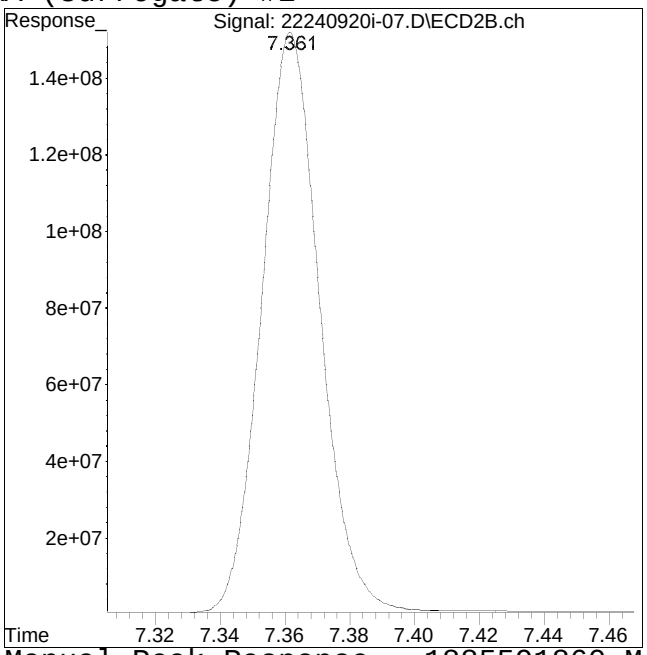
Original Peak Response = 1609715260 Manual Peak Response = 1579764821 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #16: DCAA (surrogate) #2



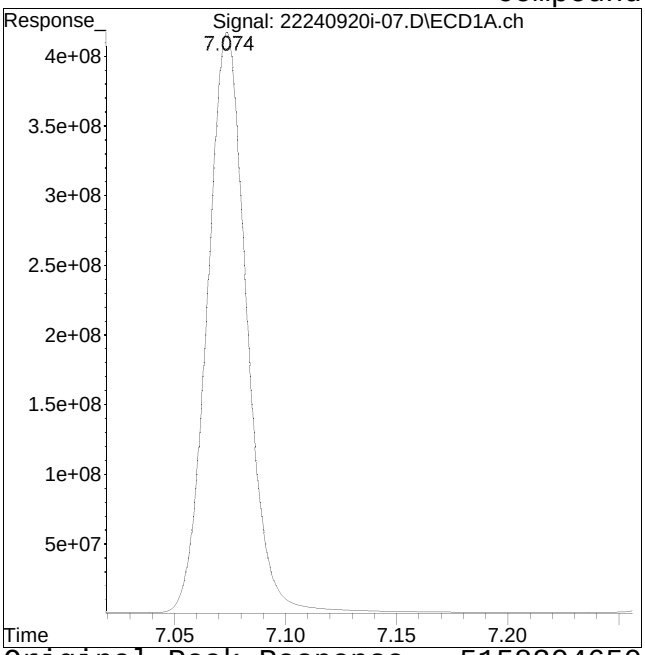


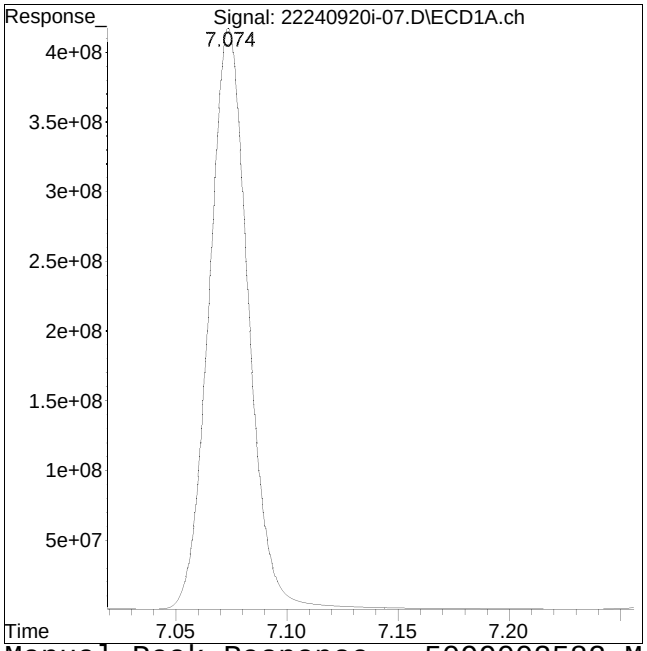
Original Peak Response = 1890094043 Manual Peak Response = 1885591860 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #4: Dicamba



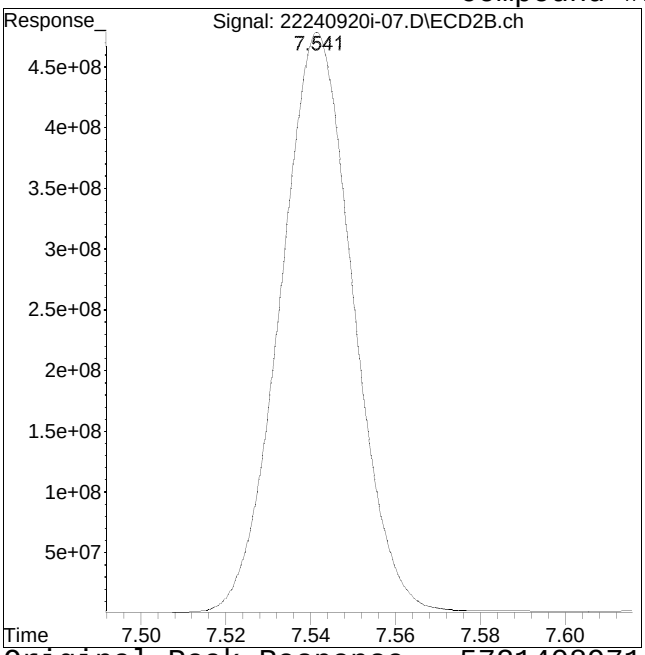


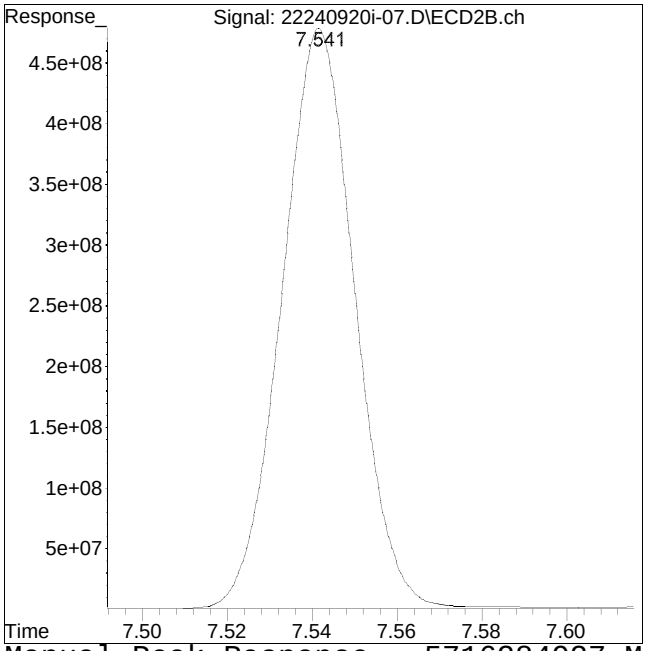
Original Peak Response = 5158304650 Manual Peak Response = 5099002582 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #17: Dicamba #2



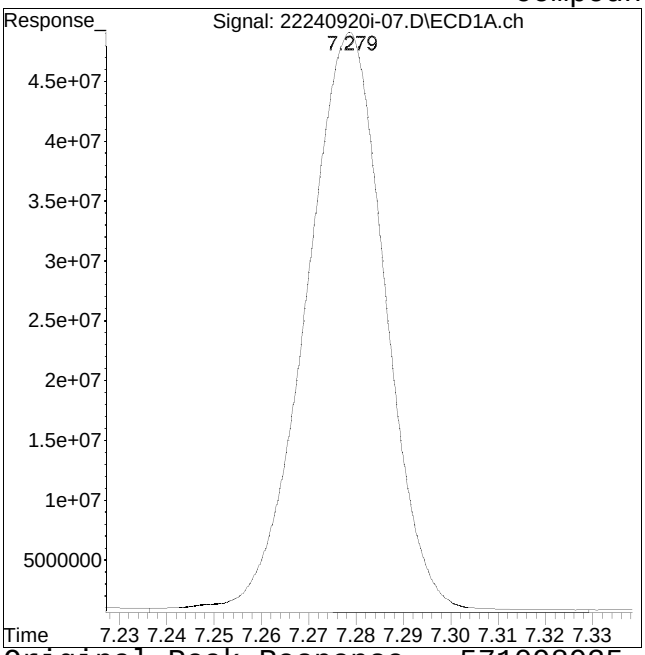


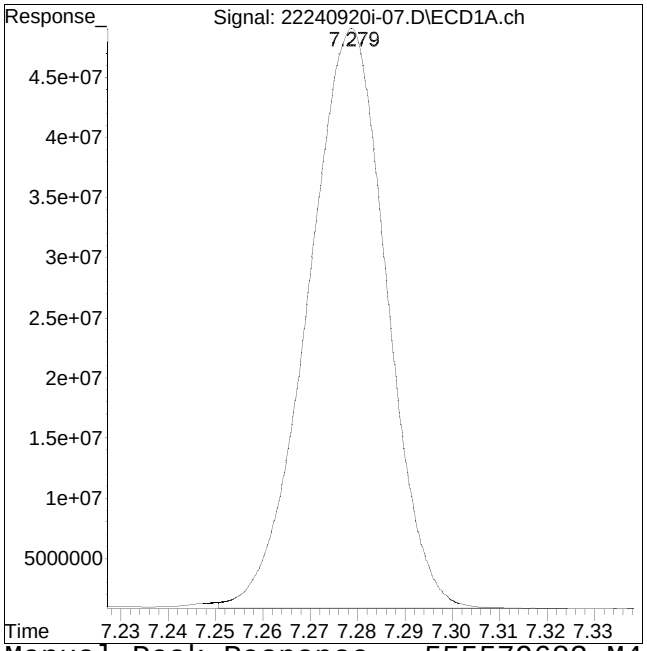
Original Peak Response = 5721408971 Manual Peak Response = 5716284927 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #5: MCPP



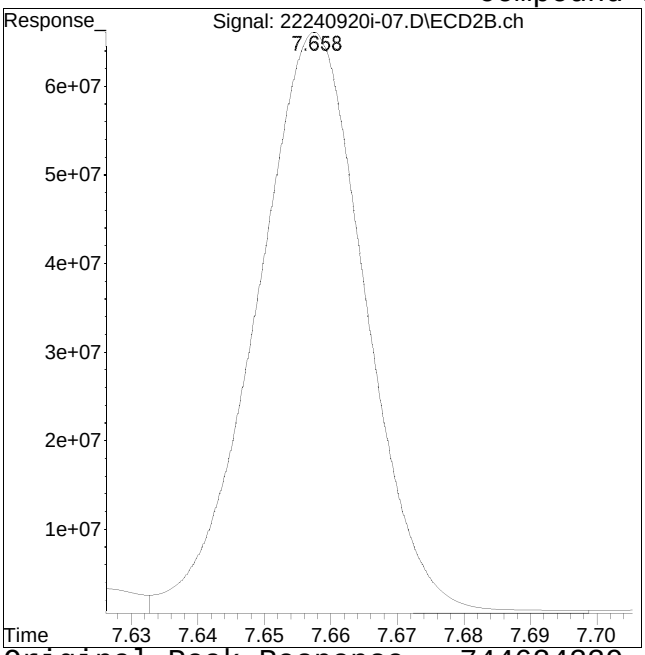


Original Peak Response = 571098935 Manual Peak Response = 555579683 M4
M4 = Poor automated baseline construction.

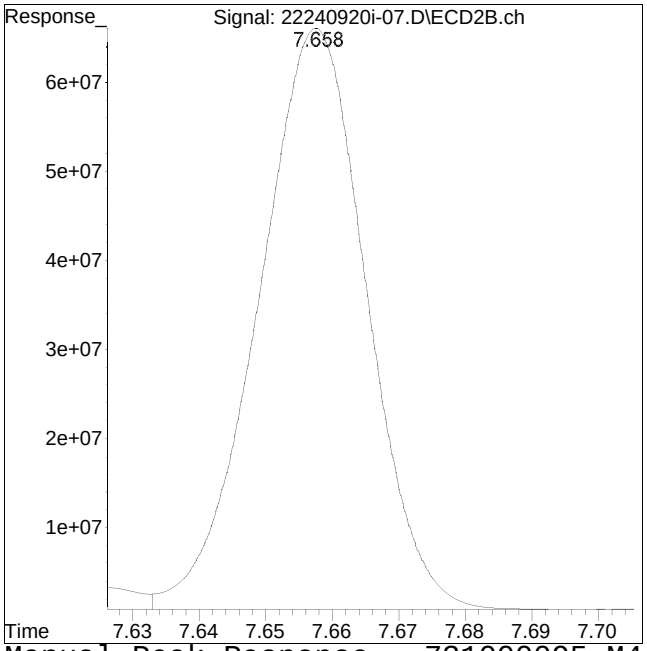
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #18: MCPP #2



Original Peak Response = 744624339



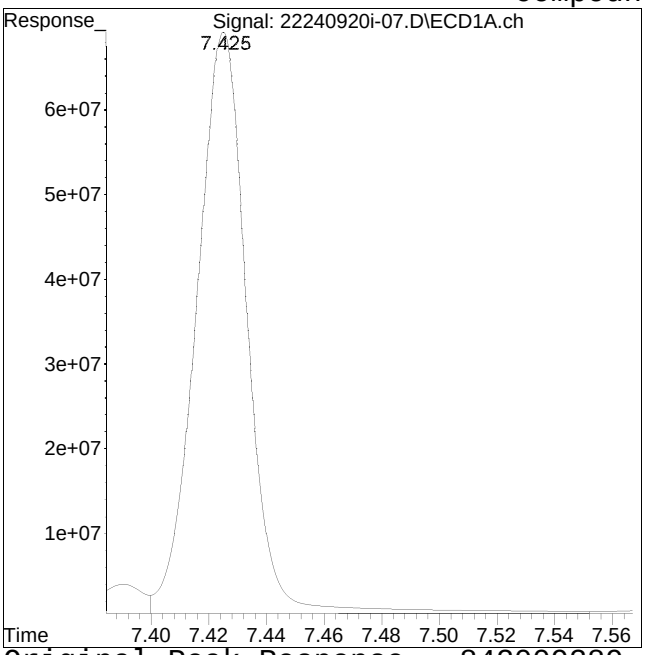
Manual Peak Response = 731000095 M4

M4 = Poor automated baseline construction.

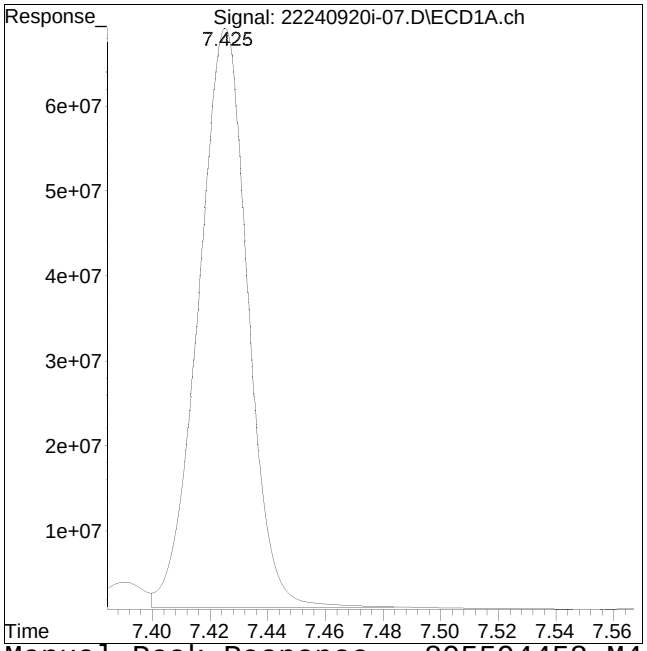
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #6: MCPA



Original Peak Response = 842009389



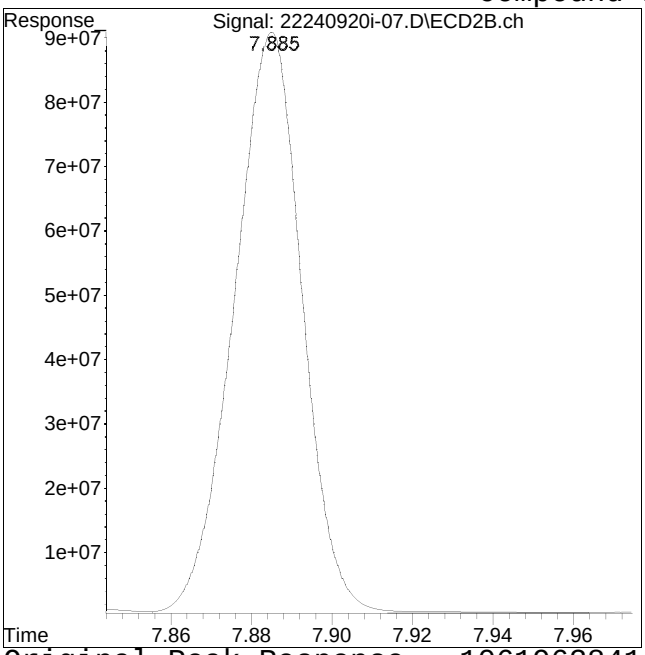
Manual Peak Response = 805594458 M4

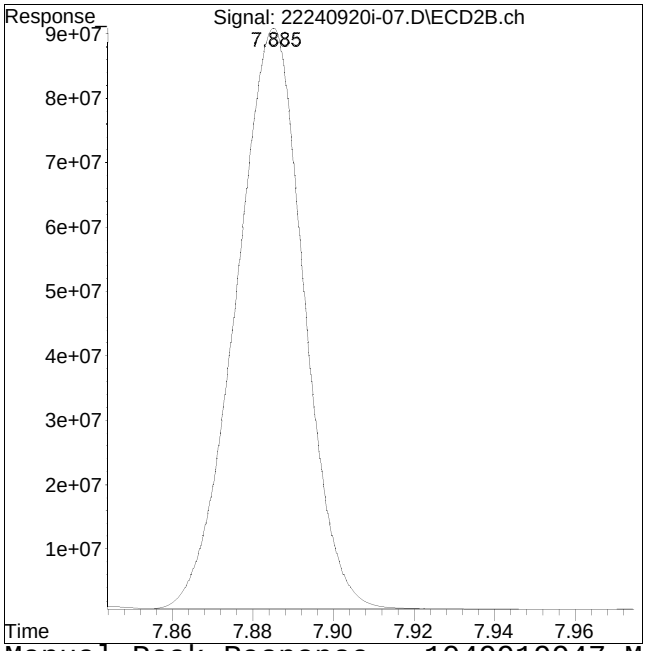
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #19: MCPA #2



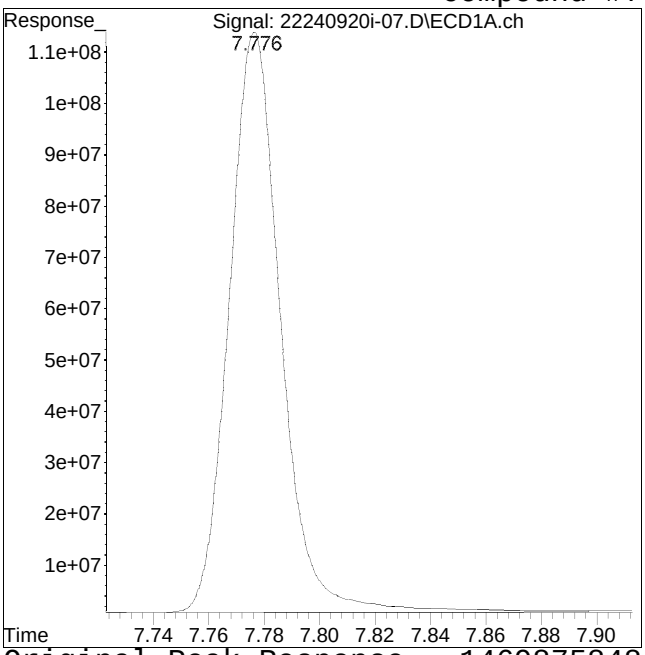


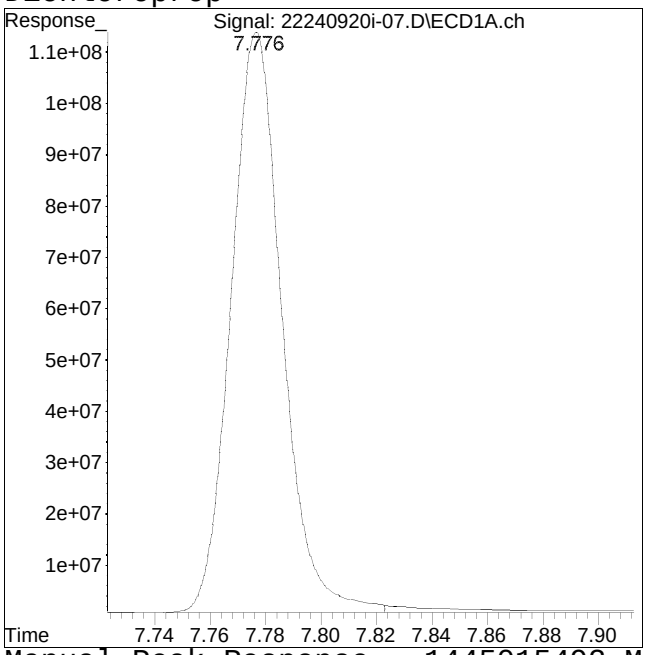
Original Peak Response = 1061963841 Manual Peak Response = 1049919947 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #7: Dichloroprop



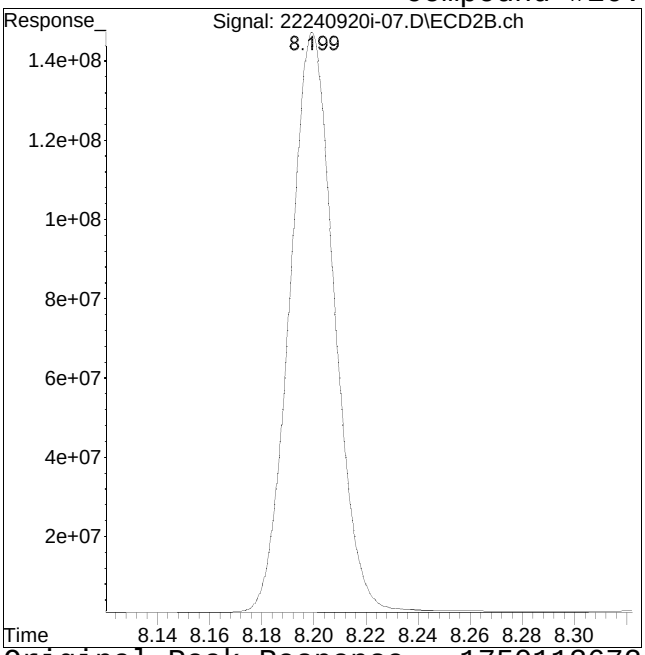


Original Peak Response = 1469875848 Manual Peak Response = 1445015492 M4
M4 = Poor automated baseline construction.

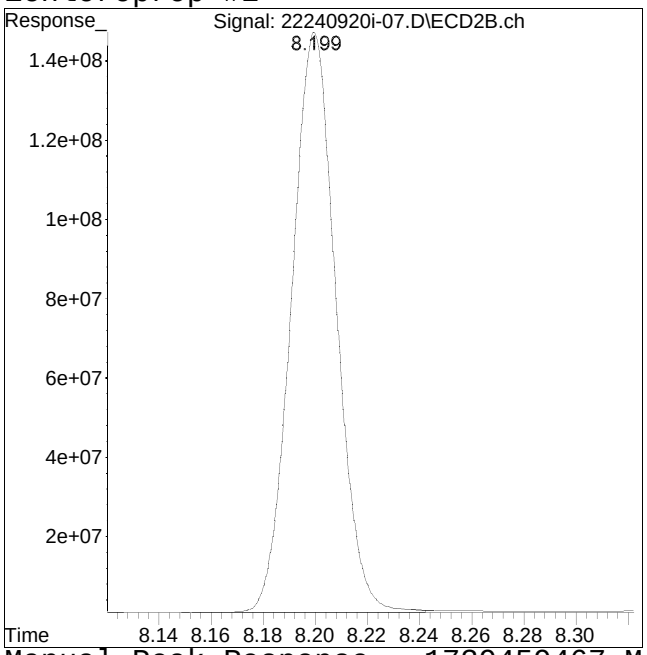
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #20: Dichloroprop #2



Original Peak Response = 1750113672



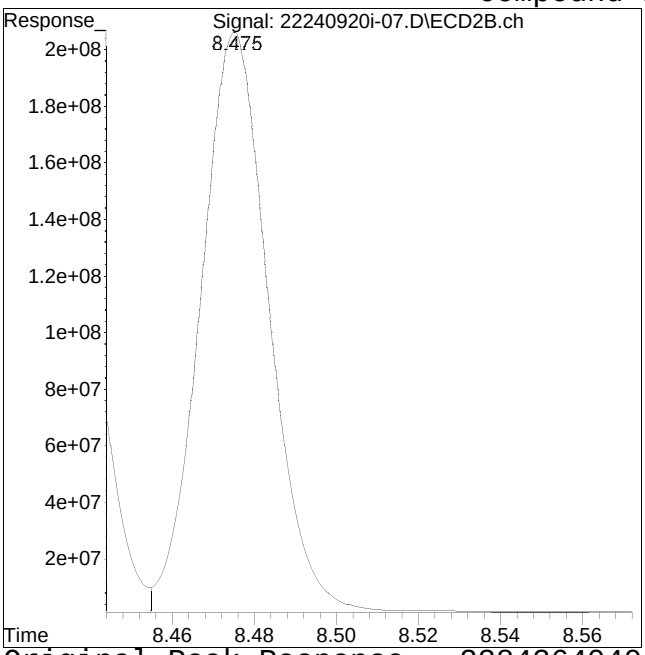
Manual Peak Response = 1739459467 M4

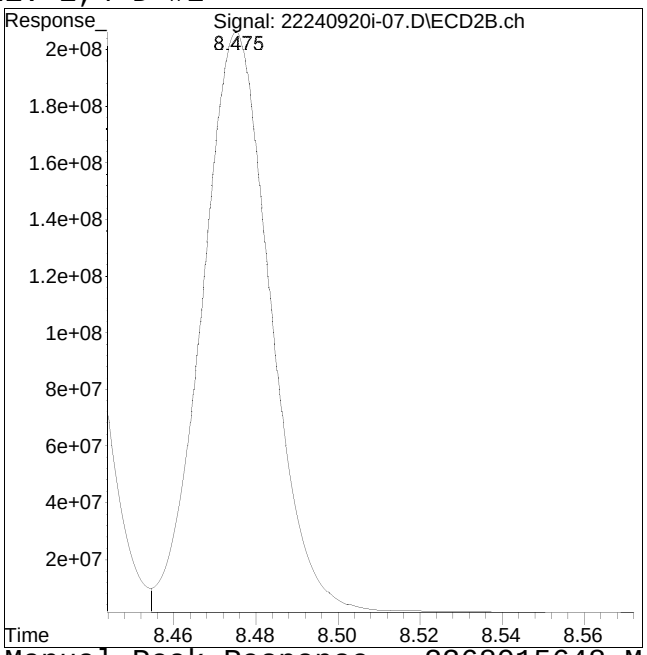
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #21: 2,4-D #2



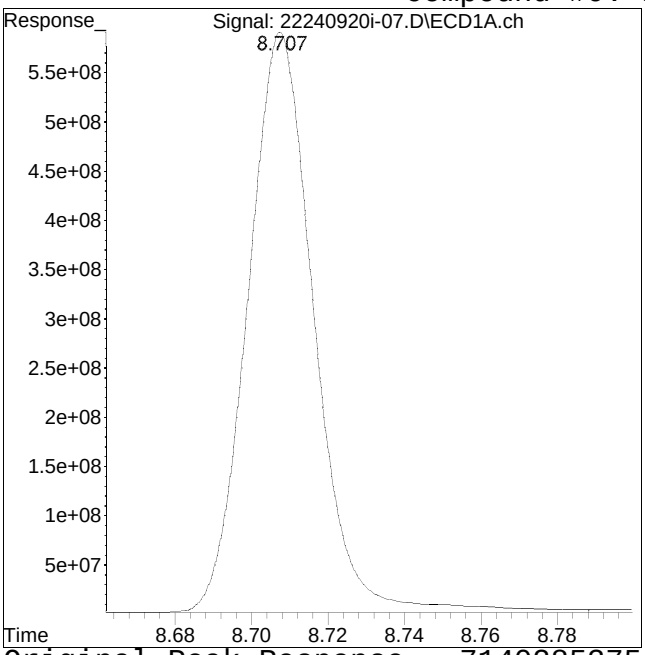


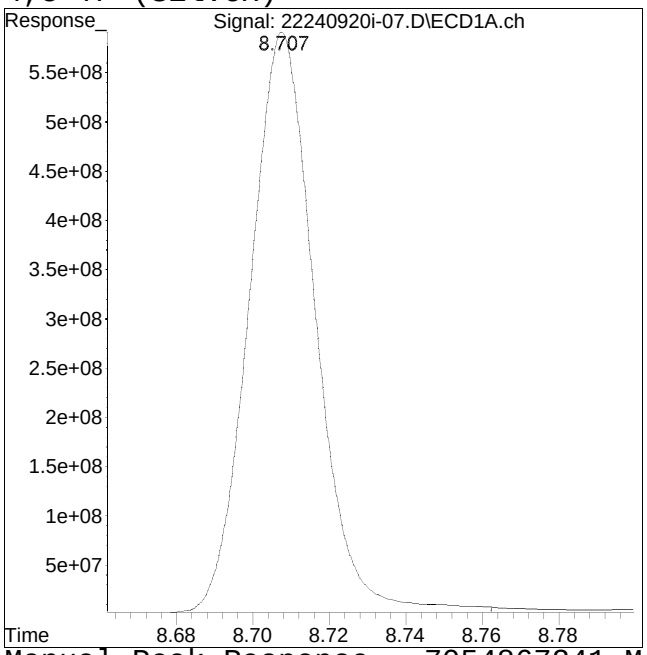
Original Peak Response = 2384364040 Manual Peak Response = 2368015648 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #9: 2,4,5-TP (Silvex)



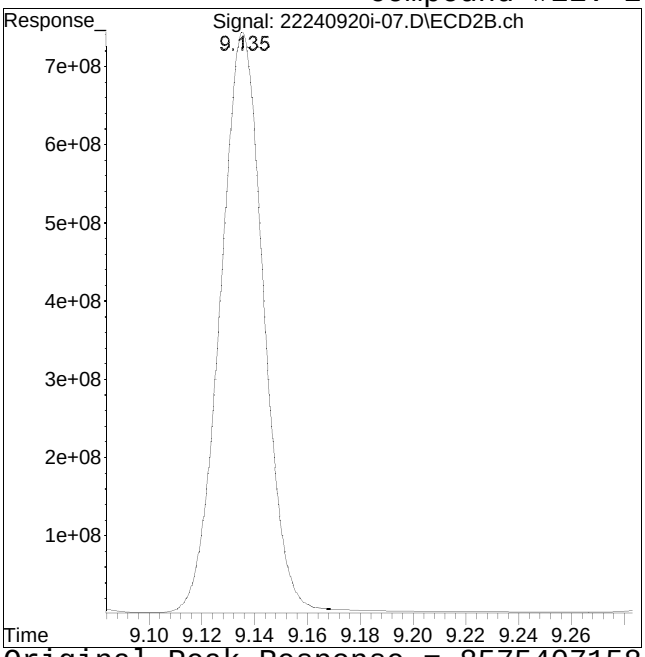


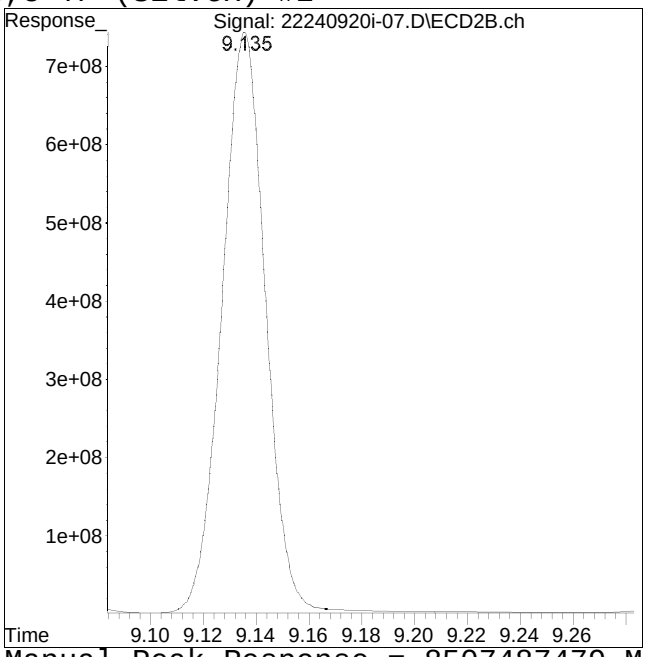
Original Peak Response = 7140285375 Manual Peak Response = 7054867241 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #22: 2,4,5-TP (Silvex) #2



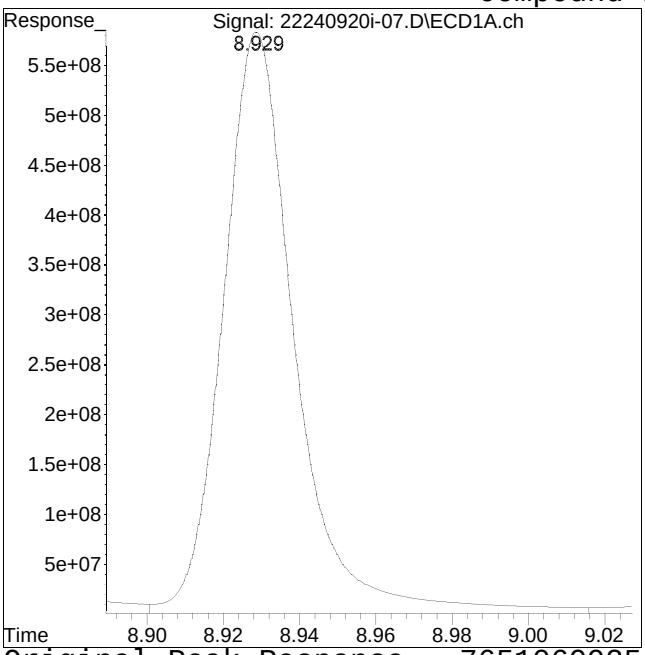


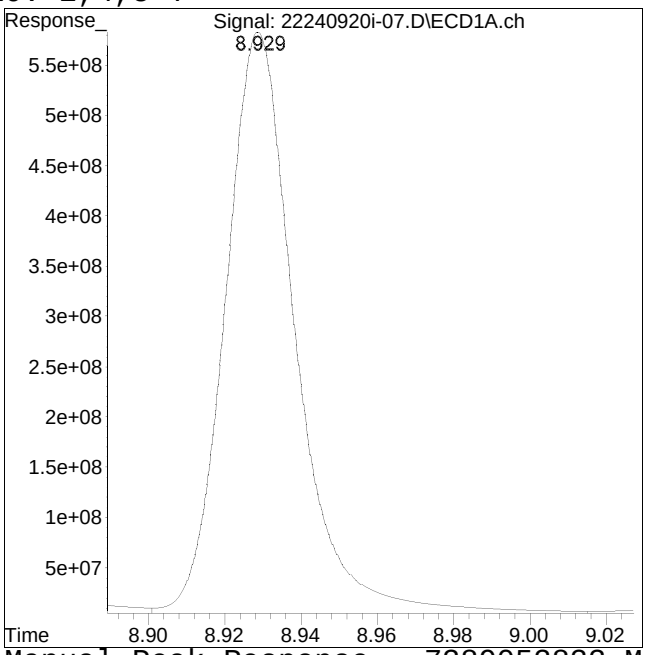
Original Peak Response = 8575407158 Manual Peak Response = 8507487479 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #10: 2,4,5-T



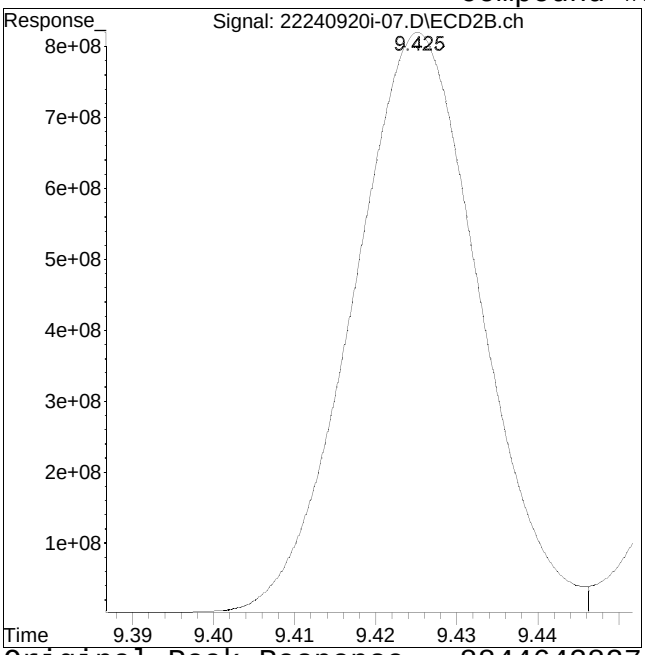


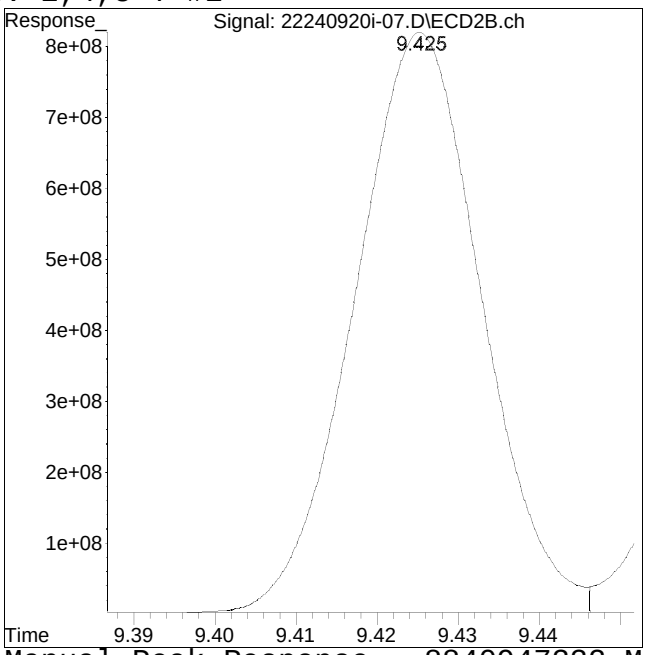
Original Peak Response = 7651069925 Manual Peak Response = 7389053833 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #23: 2,4,5-T #2



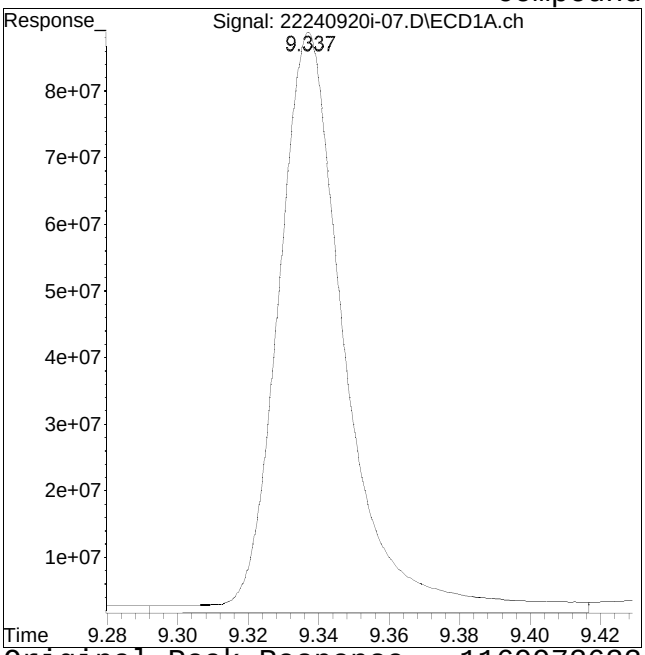


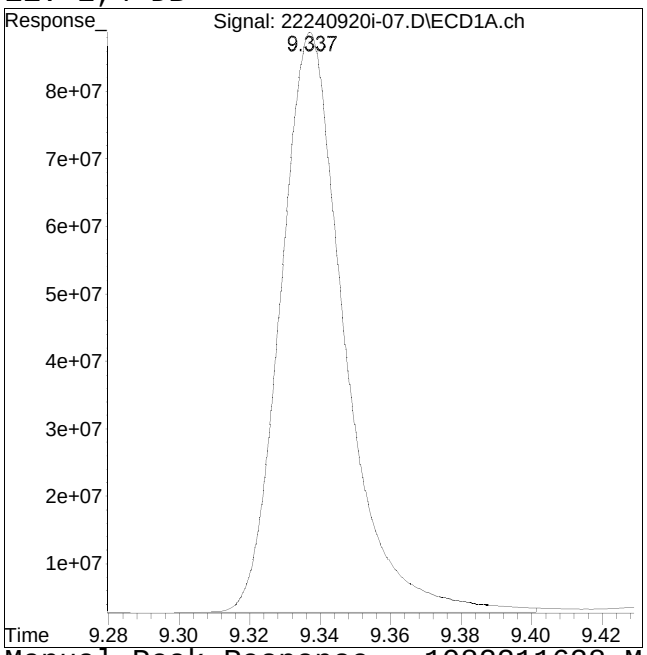
Original Peak Response = 8844643827 Manual Peak Response = 8840947332 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #11: 2,4-DB



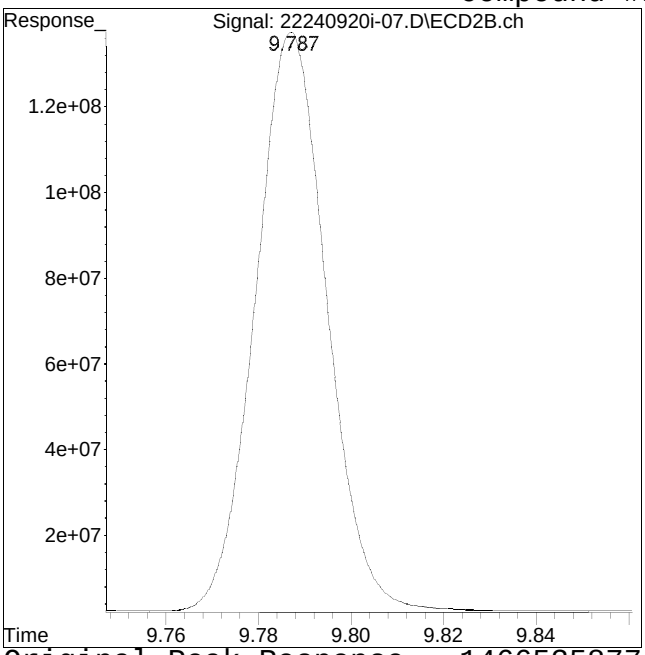


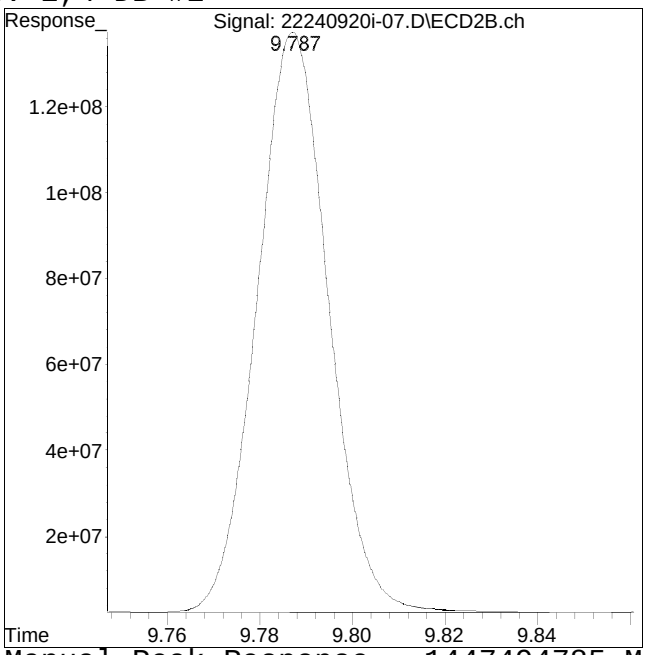
Original Peak Response = 1169973633 Manual Peak Response = 1082211628 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #24: 2,4-DB #2



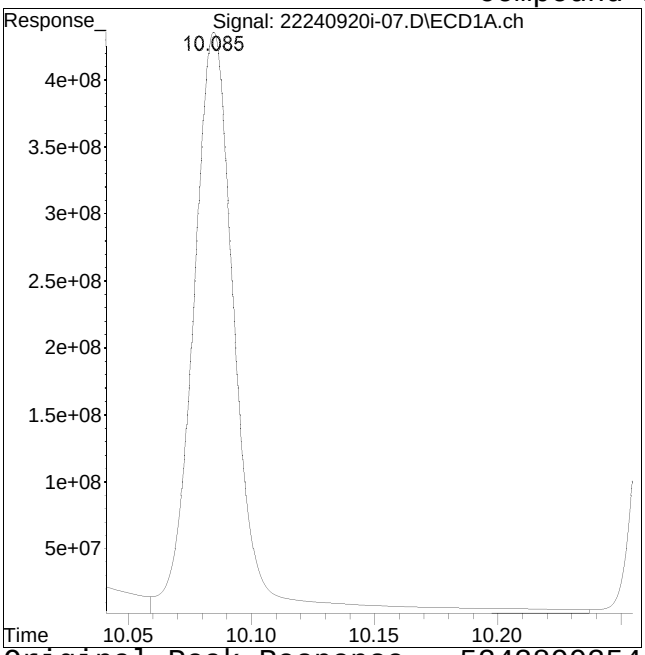


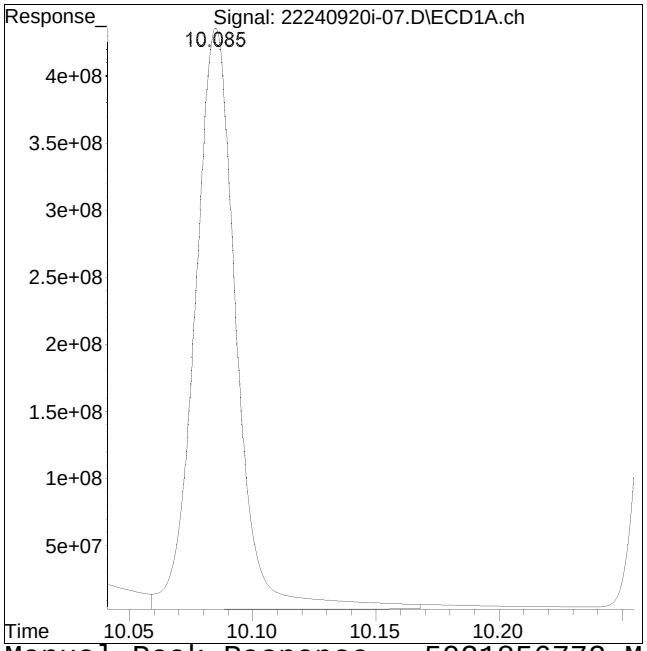
Original Peak Response = 1466535877 Manual Peak Response = 1447494785 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #12: Dinoseb



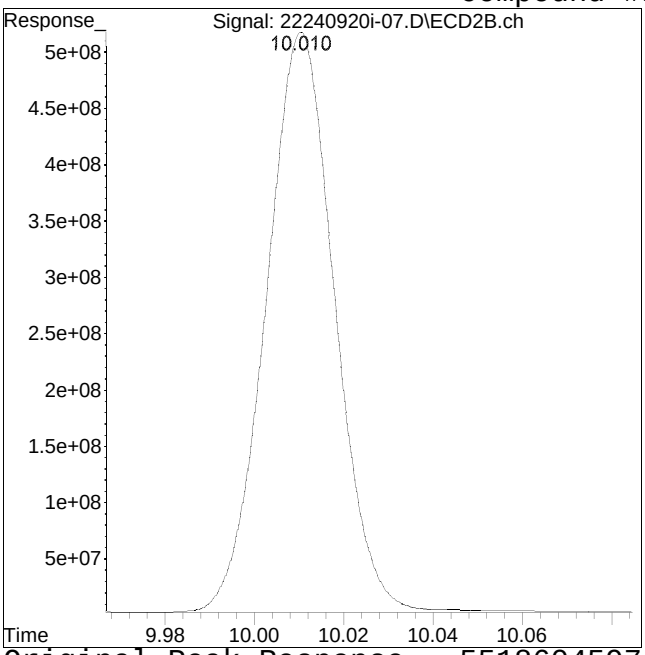


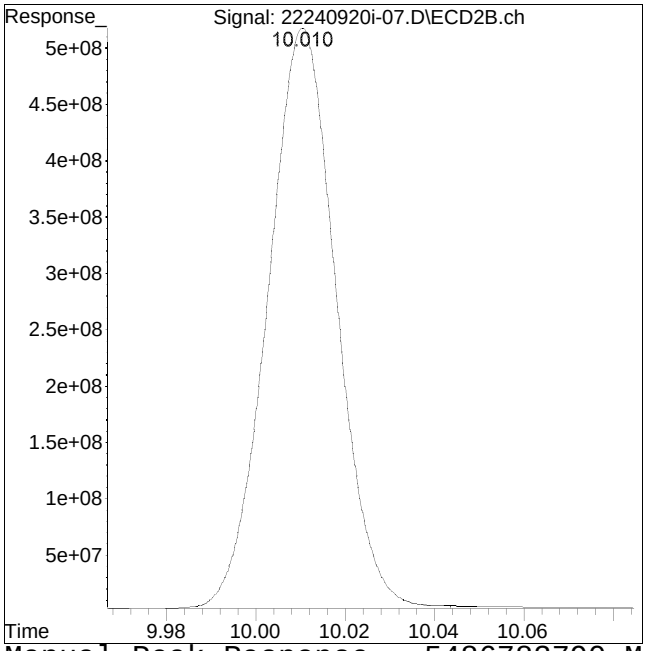
Original Peak Response = 5243899354 Manual Peak Response = 5021856772 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #25: Dinoseb #2





Original Peak Response = 5518604597 Manual Peak Response = 5486783790 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 20 Sep 2024 01:34 pm
Operator : pest22:akm
Sample   : cicv,42e,,pp 11634 L0.2/20 ICV
Misc   : WG1975124,
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Sep 23 11:28:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	105	0.00
2	t	Dalapon		0.234	0.193	17.5#	84	0.00
3	s	DCAA (surrogate)		0.184	0.182	1.1	100	0.00
4	t	Dicamba		0.568	0.533	6.2	98	0.00
5	t	MCPP		0.00048	0.00050	-4.2	109	0.00
6	t	MCPA		0.00087	0.00088	-1.1	102	0.00
7	t	Dichloroprop		0.175	0.183	-4.6	107	0.00
8	t	2,4-D		0.213	0.205	3.8	101	0.00
9	t	2,4,5-TP (Silvex)		0.772	0.759	1.7	101	0.00
10	t	2,4,5-T		0.792	0.804	-1.5	106	0.00
11	t	2,4-DB		0.116	0.115	0.9	103	0.00
12	t	Dinoseb		0.590	0.602	-2.0	104	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	105	0.00
2	t	Dalapon		0.202	0.190	5.9	90	0.00
3	s	DCAA (surrogate)		0.189	0.186	1.6	101	0.00
4	t	Dicamba		0.534	0.512	4.1	99	0.00
5	t	MCPP		0.00053	0.00053	0.0	106	0.00
6	t	MCPA		0.00095	0.00093	2.1	101	0.00
7	t	Dichloroprop		0.173	0.184	-6.4	108	0.00
8	t	2,4-D		0.222	0.217	2.3	101	0.00
9	t	2,4,5-TP (Silvex)		0.776	0.762	1.8	100	0.00
10	t	2,4,5-T		0.768	0.760	1.0	102	0.00
11	t	2,4-DB		0.126	0.122	3.2	100	0.00
12	t	Dinoseb		0.490	0.500	-2.0	104	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 20 Sep 2024 01:34 pm
Operator : pest22:akm
Sample   : cicv,42e,,pp 11634 L0.2/20 ICV
Misc   : WG1975124,
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Sep 23 11:28:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 01:34 pm
Operator : pest22:akm
Sample : cicv,42e,,pp 11634 L0.2/20 ICV
Misc : WG1975124,
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Sep 23 11:28:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.435	8.434	1387.4E6	1712.5E6	0.250M3	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.898	7.363	189.4E6	239.0E6	0.185M4	0.184M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	37.00%	36.80%
		Target Compounds						
2)	t	Dalapon	2.323	2.319	195.2E6	237.3E6	0.151M3	0.172M4
4)	t	Dicamba	7.074	7.541	556.4E6	659.8E6	0.177M4	0.181M3
5)	t	MCPP	7.274	7.654	52572878	68048496	19.591M4	18.916M4
6)	t	MCPA	7.421	7.880	90927411	118.5E6	18.833M4	18.150M4
7)	t	Dichloroprop	7.780	8.200	191.4E6	236.7E6	0.197M4	0.200M3
8)	t	2,4-D	8.001	8.477	213.4E6	279.6E6	0.181M3	0.184M4
9)	t	2,4,5-TP (Si	8.711	9.135	800.6E6	991.2E6	0.187M4	0.187M4
10)	t	2,4,5-T	8.939	9.426	848.2E6	989.7E6	0.193M4	0.188M4
11)	t	2,4-DB	9.349	9.788	122.7E6	160.1E6	0.191M4	0.186M4
12)	t	Dinoseb	10.085	10.010	634.3E6	650.9E6	0.194M4	0.194M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 01:34 pm
Operator : pest22:akm
Sample : cicv,42e,,pp 11634 L0.2/20 ICV
Misc : WG1975124,
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Sep 23 11:28:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

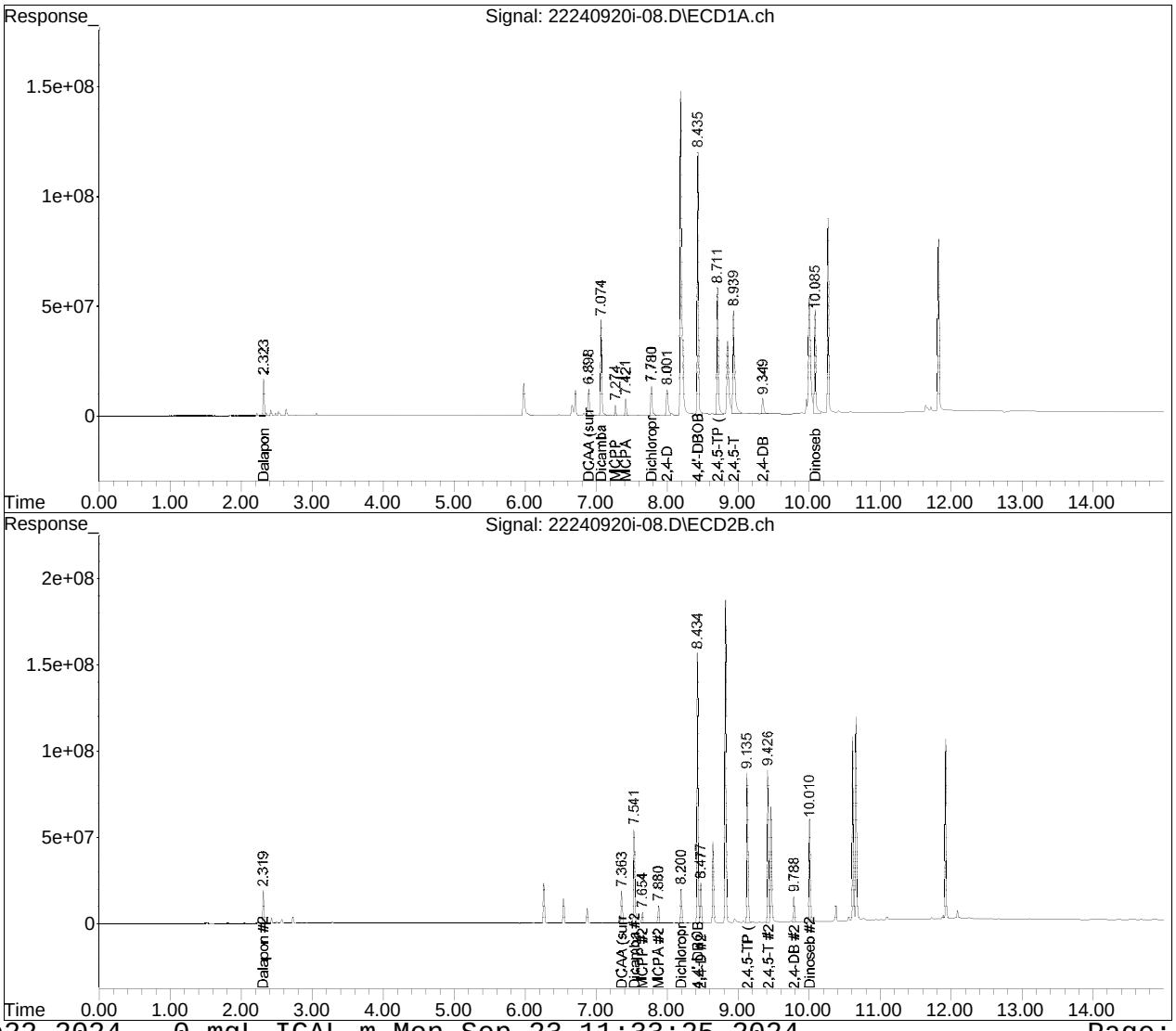
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 01:34 pm
Operator : pest22:akm
Sample : cicv,42e,,pp 11634 L0.2/20 ICV
Misc : WG1975124,
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Sep 23 11:28:26 2024
Response via : Initial Calibration
Integrator: ChemStation

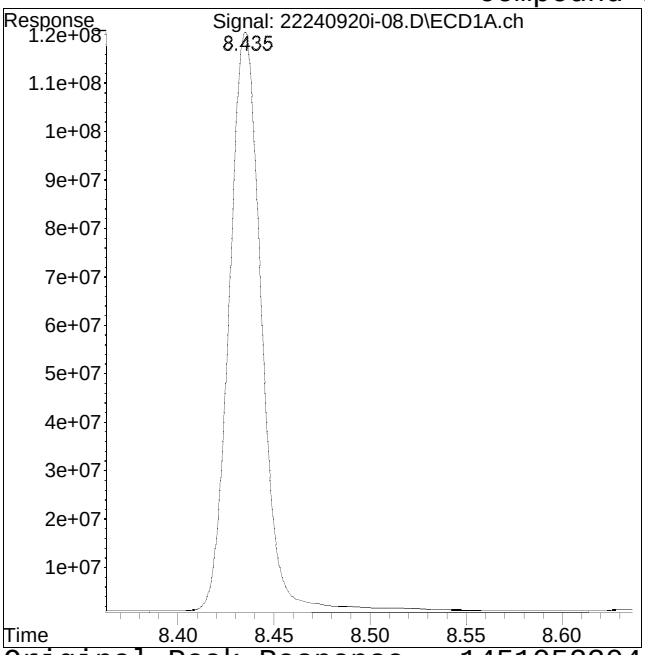
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

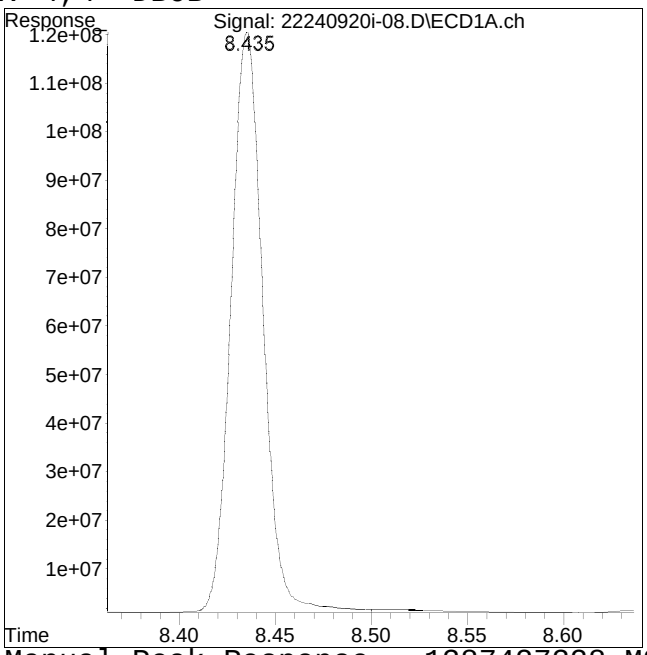


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #1: 4,4'-DBOB



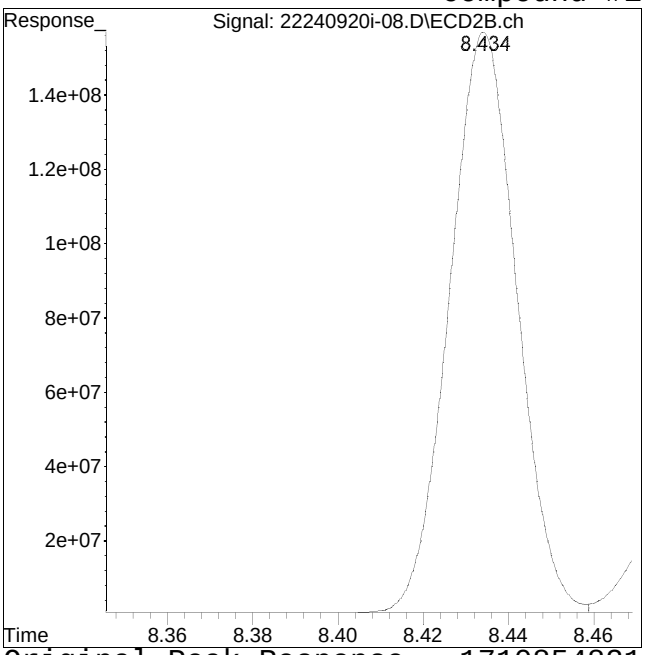


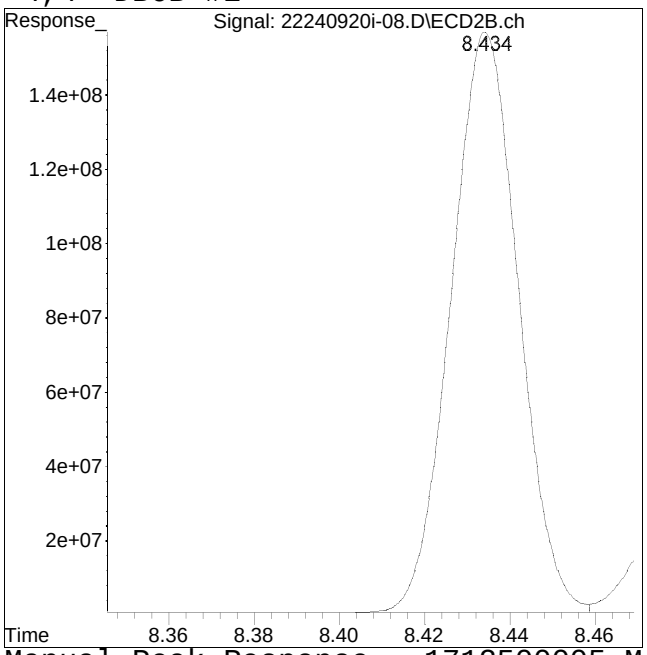
Original Peak Response = 1451052304 Manual Peak Response = 1387427328 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #14: 4,4'-DBOB #2



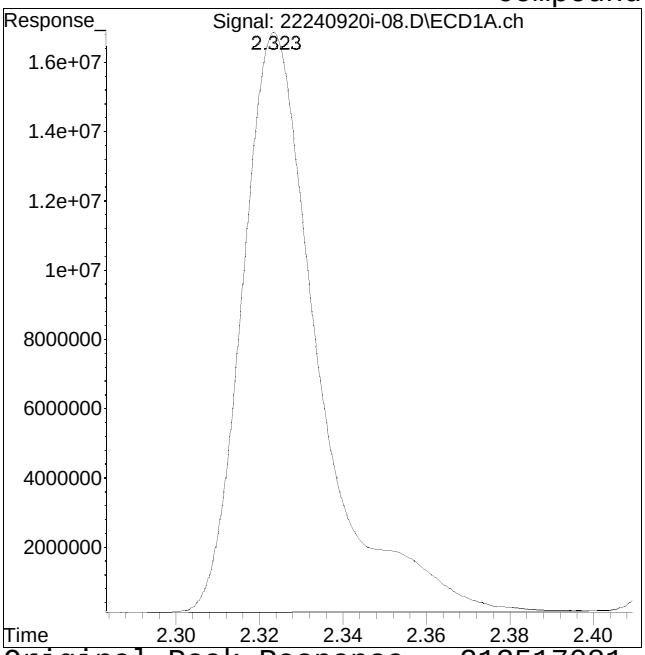


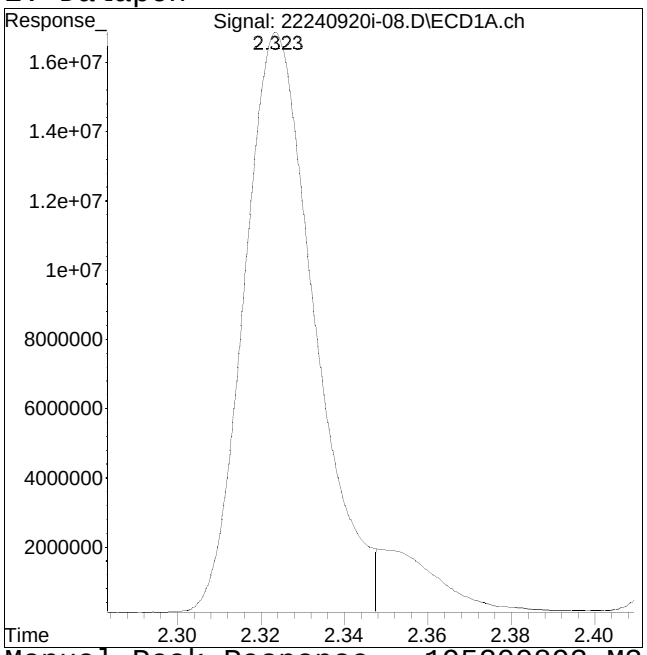
Original Peak Response = 1710854821 Manual Peak Response = 1712500005 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #2: Dalapon



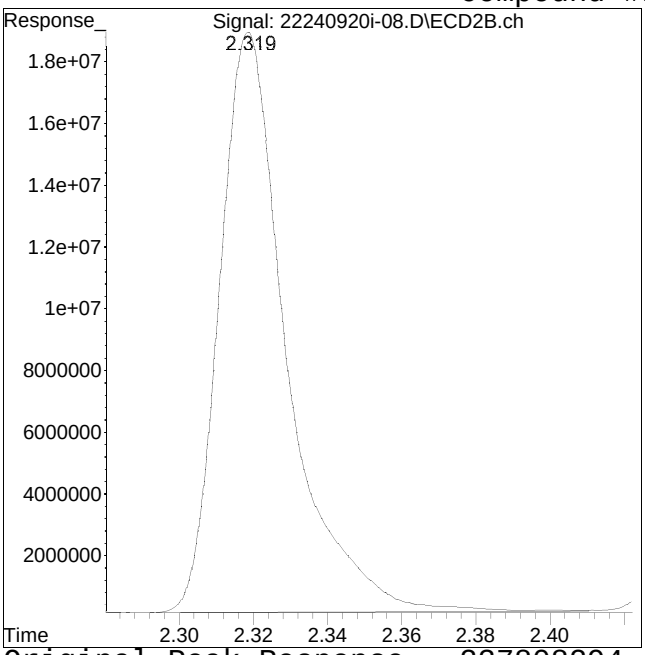


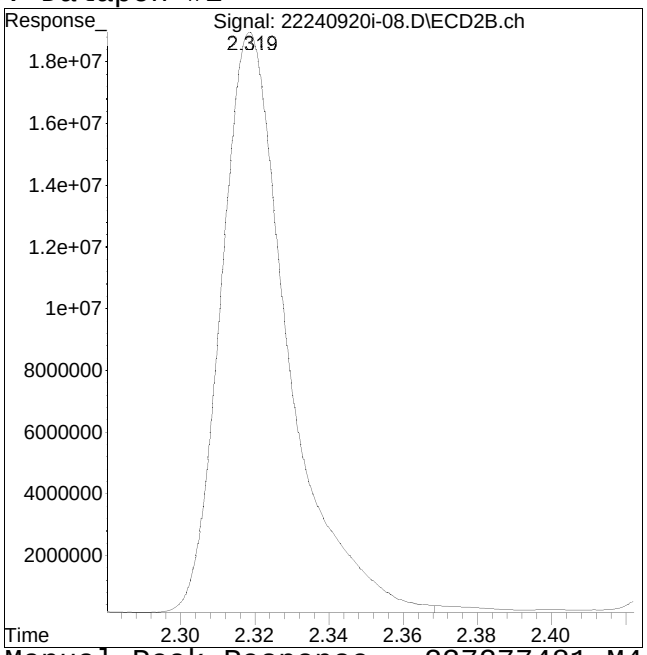
Original Peak Response = 213517081 Manual Peak Response = 195200893 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #15: Dalapon #2



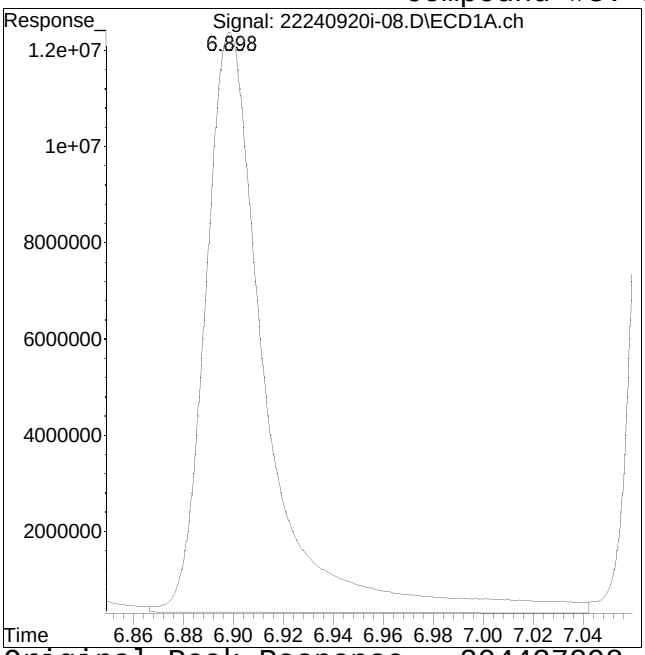


Original Peak Response = 237808294 Manual Peak Response = 237277481 M4
M4 = Poor automated baseline construction.

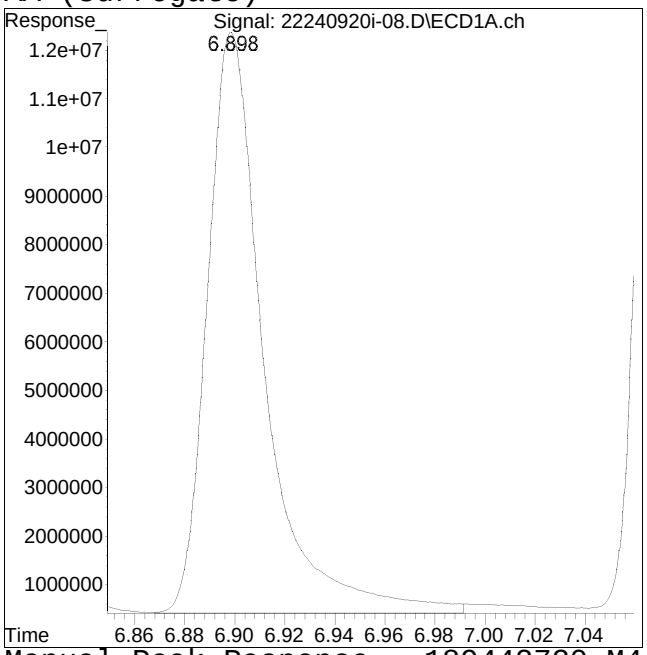
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #3: DCAA (surrogate)



Original Peak Response = 204437298

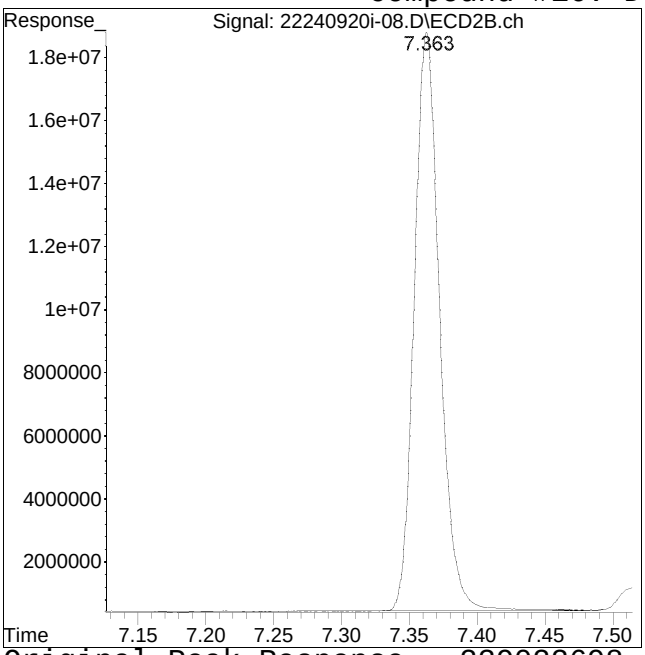


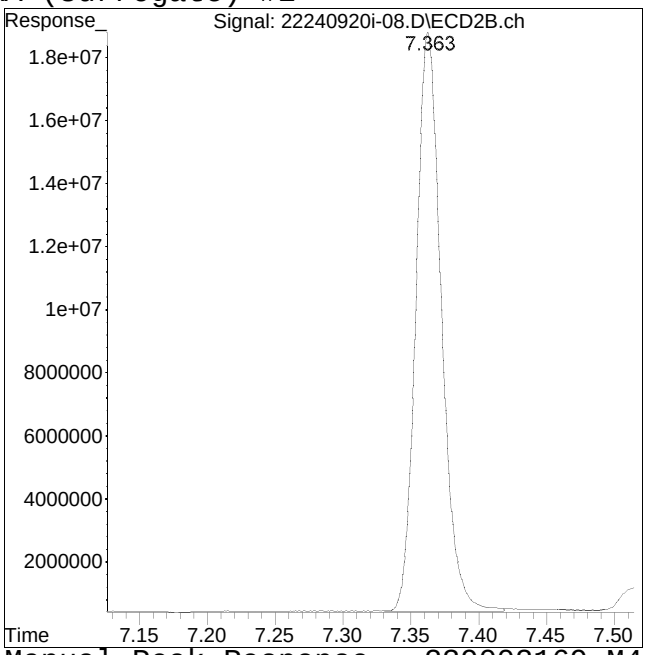
Manual Peak Response = 189442720 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #16: DCAA (surrogate) #2



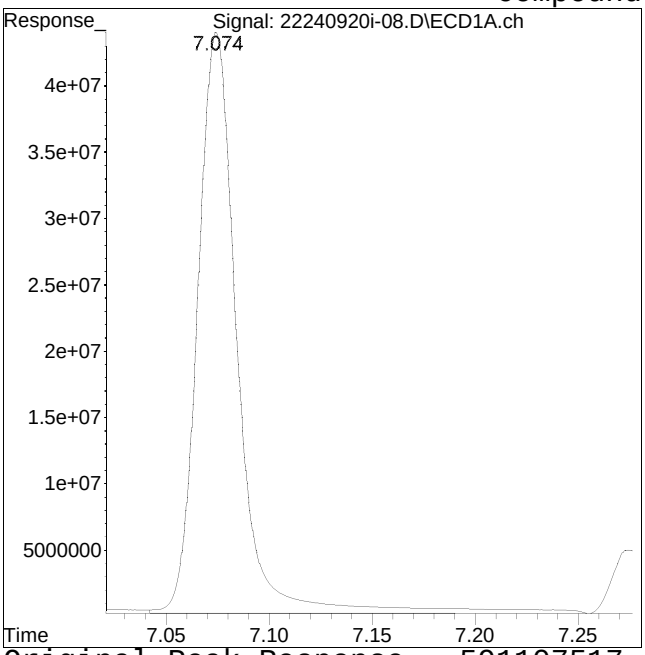


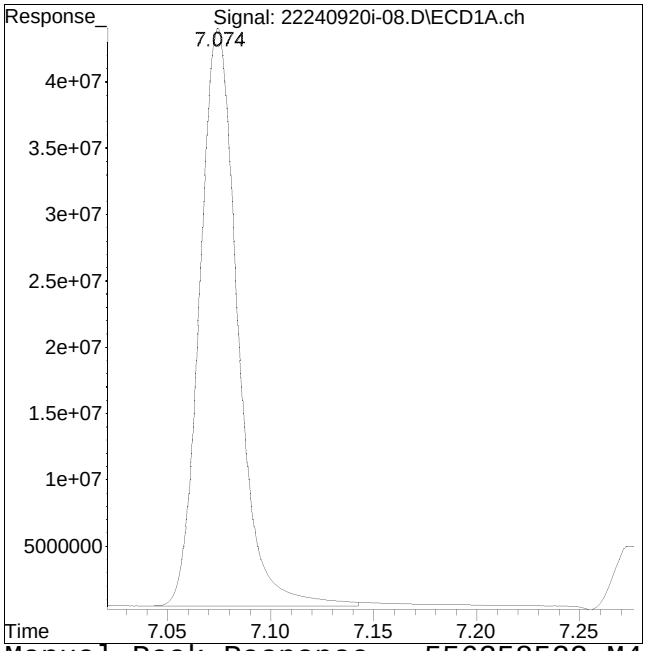
Original Peak Response = 239022698 Manual Peak Response = 239002169 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #4: Dicamba



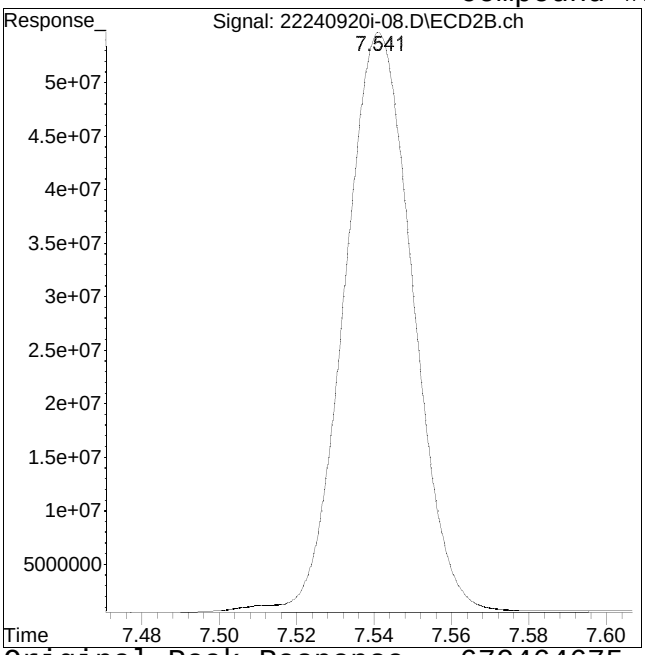


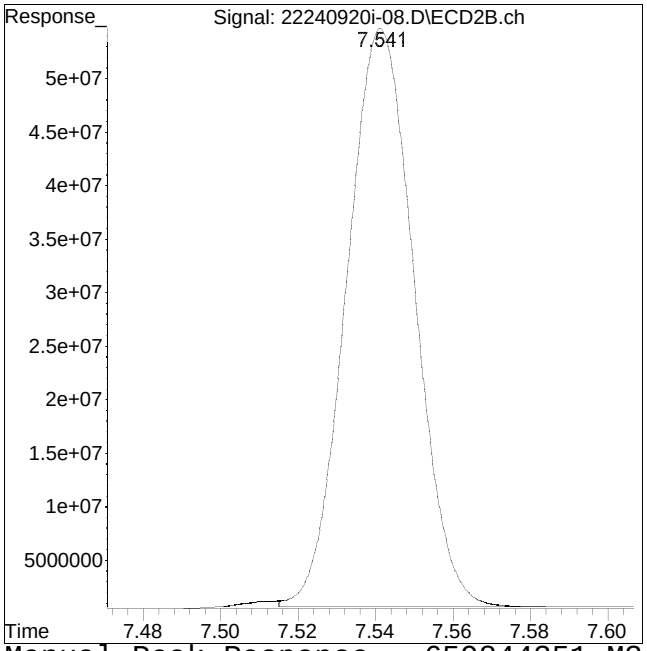
Original Peak Response = 591107517 Manual Peak Response = 556358522 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #17: Dicamba #2



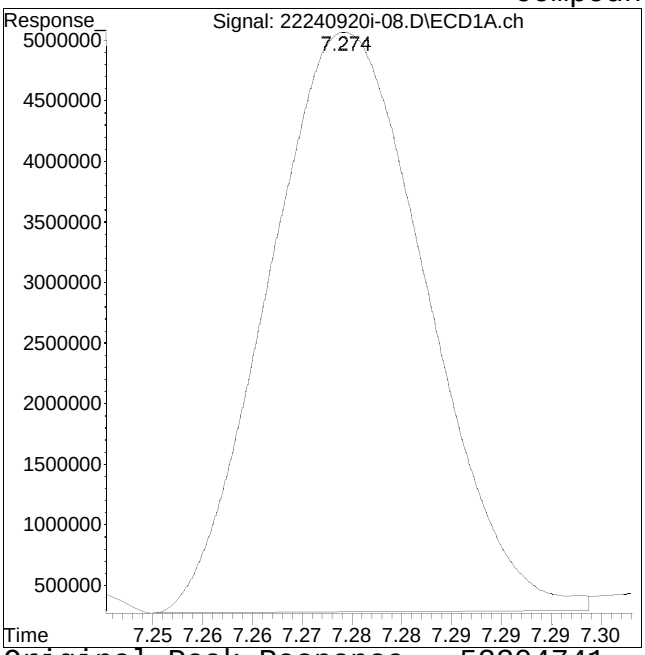


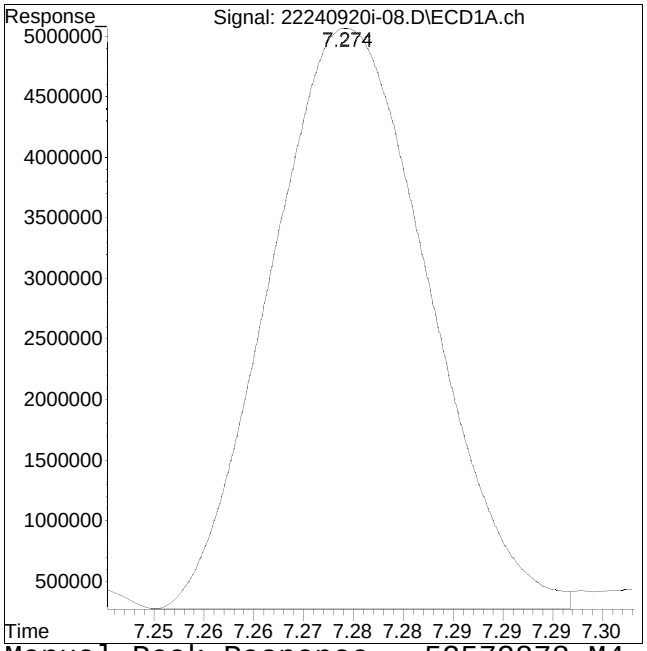
Original Peak Response = 670464675 Manual Peak Response = 659844351 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #5: MCPP



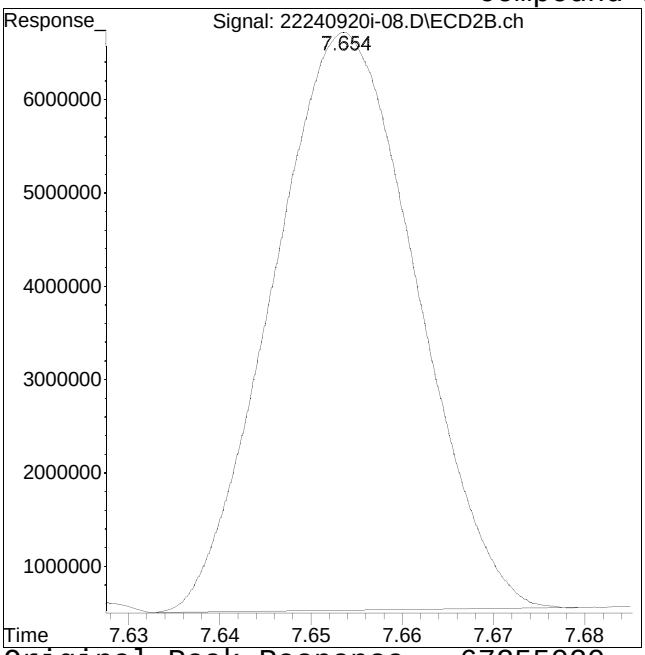


Original Peak Response = 52304741 Manual Peak Response = 52572878 M4
M4 = Poor automated baseline construction.

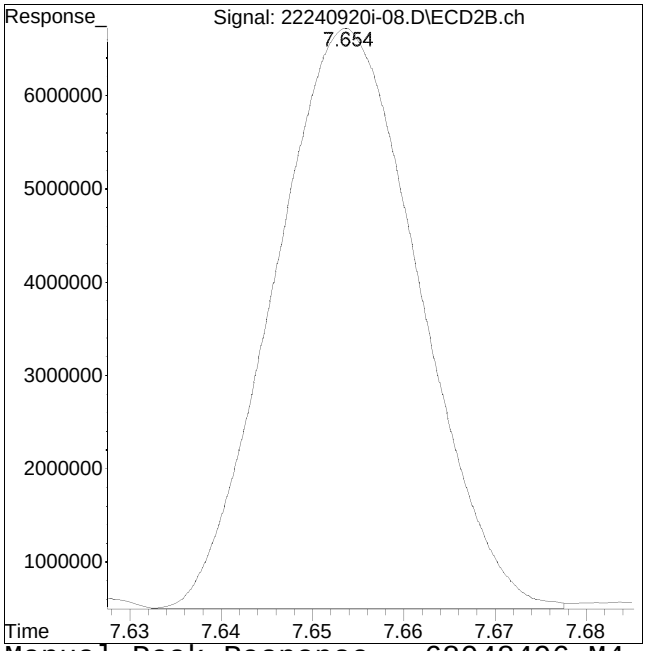
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #18: MCPP #2



Original Peak Response = 67255020



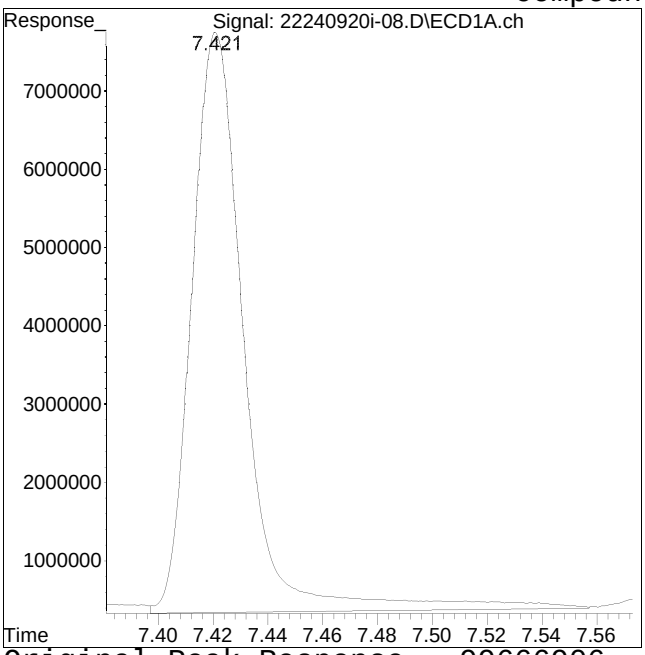
Manual Peak Response = 68048496 M4

M4 = Poor automated baseline construction.

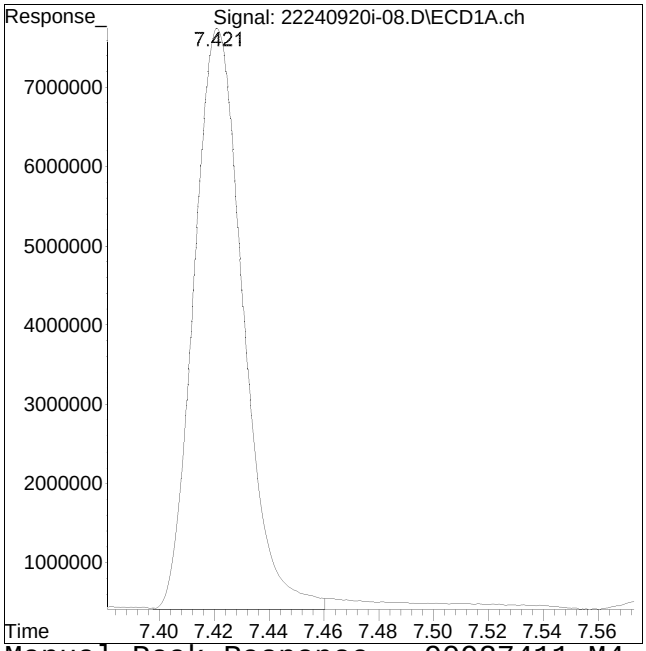
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #6: MCPA



Original Peak Response = 99666906



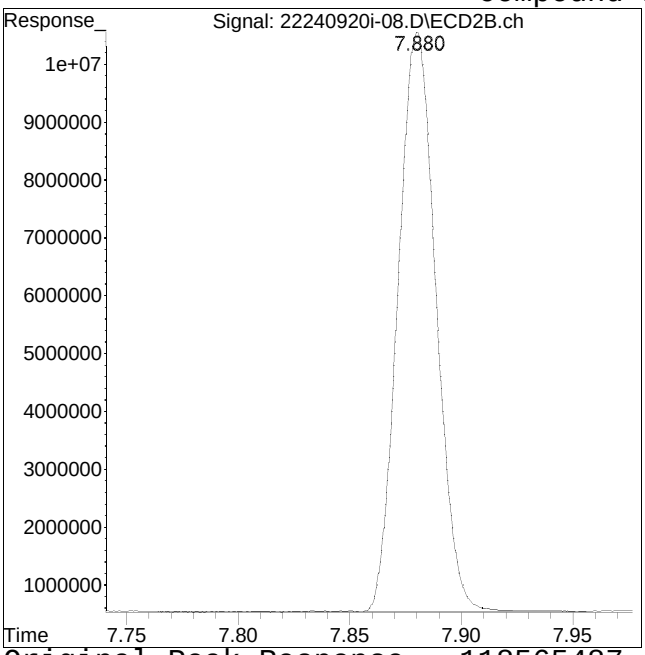
Manual Peak Response = 90927411 M4

M4 = Poor automated baseline construction.

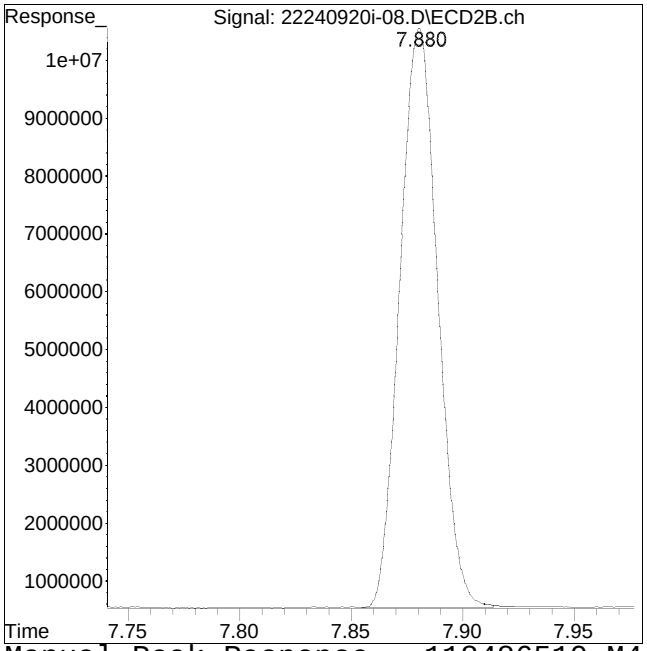
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #19: MCPA #2



Original Peak Response = 118565487



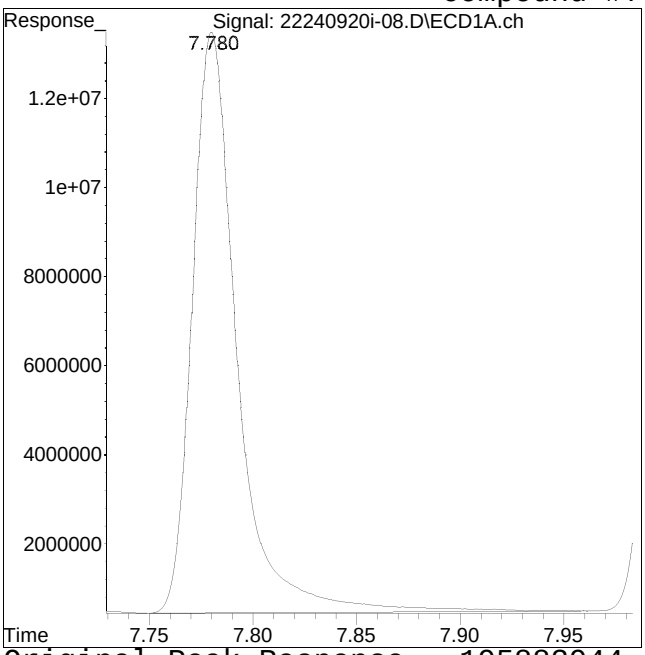
Manual Peak Response = 118486510 M4

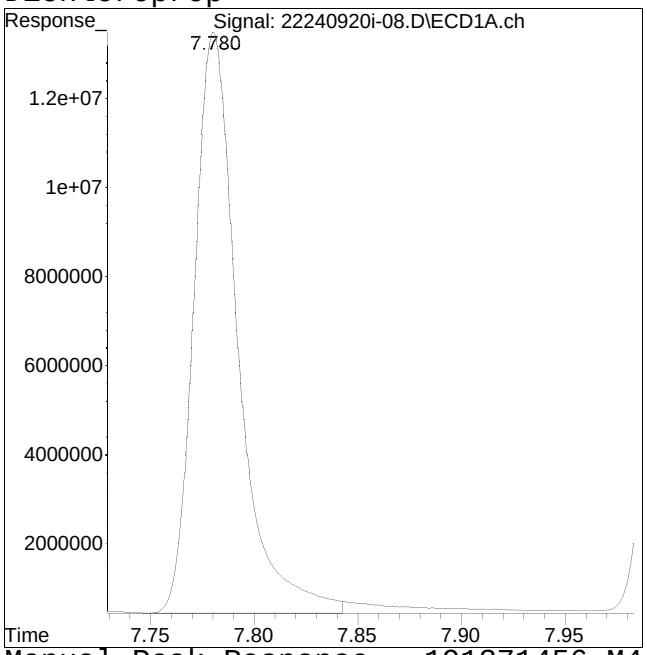
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #7: Dichloroprop



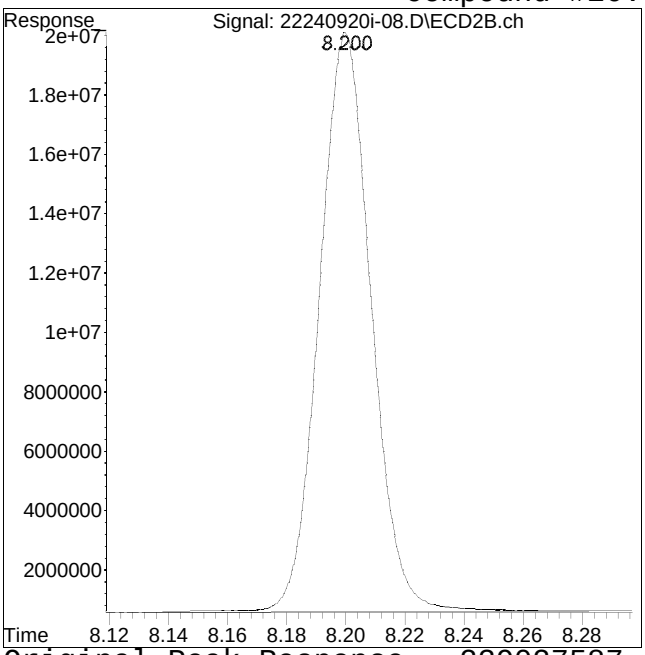


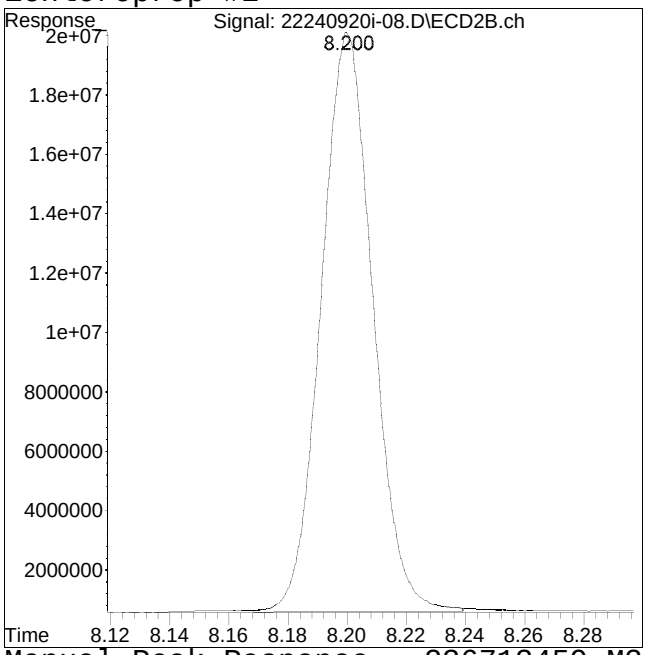
Original Peak Response = 195883944 Manual Peak Response = 191371456 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #20: Dichloroprop #2



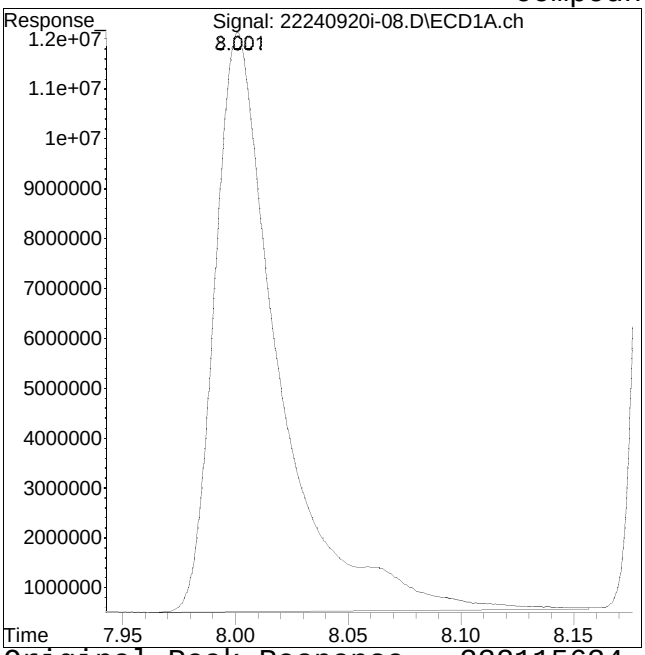


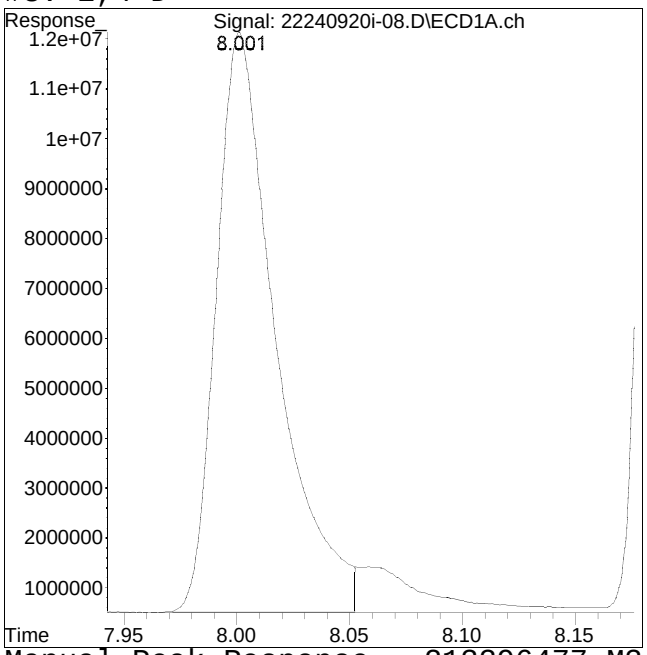
Original Peak Response = 239027587 Manual Peak Response = 236713459 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #8: 2,4-D



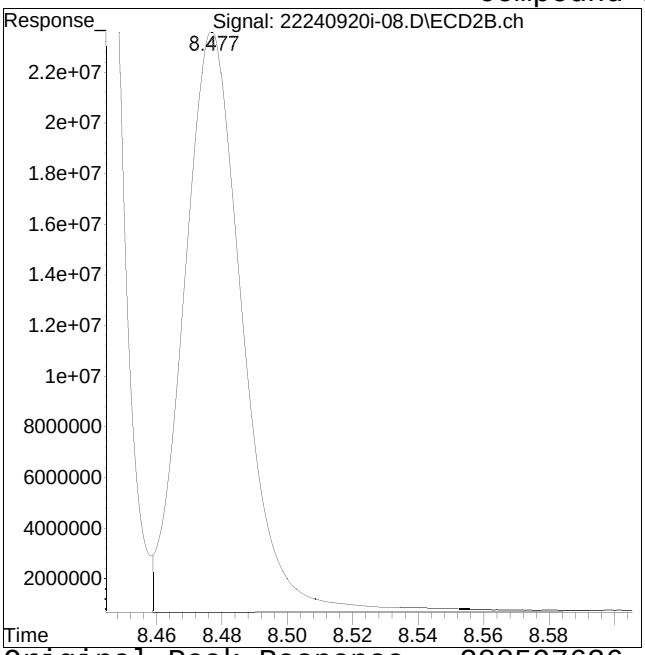


Original Peak Response = 232115634 Manual Peak Response = 213396477 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

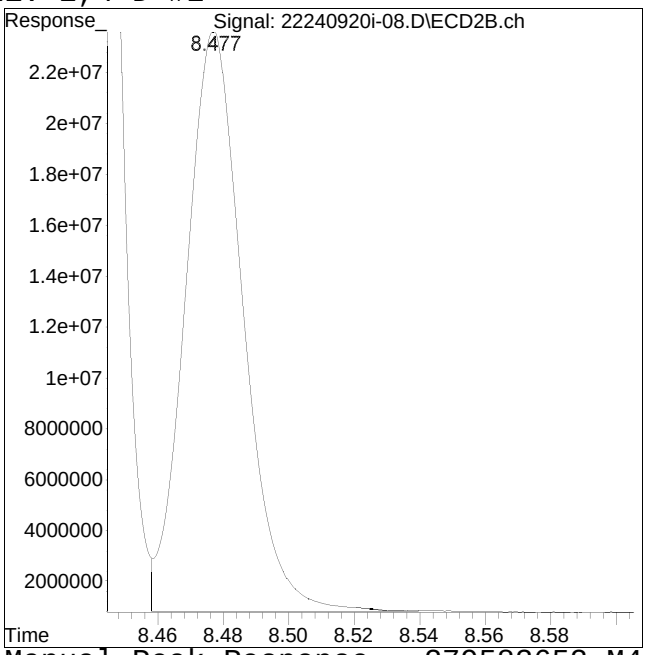
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #21: 2,4-D #2



Original Peak Response = 288597636



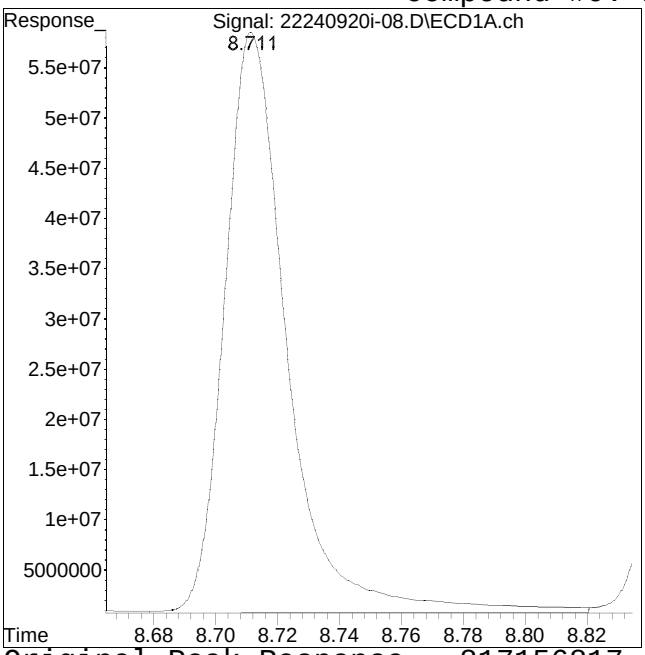
Manual Peak Response = 279583652 M4

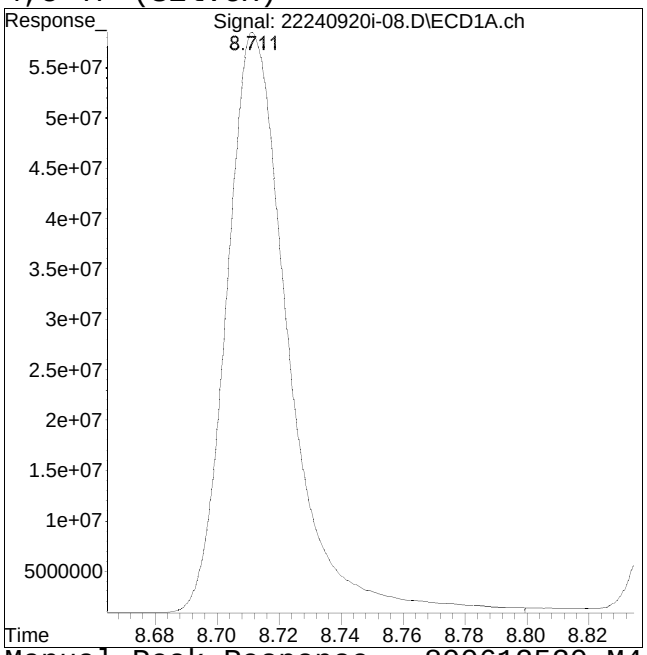
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #9: 2,4,5-TP (Silvex)



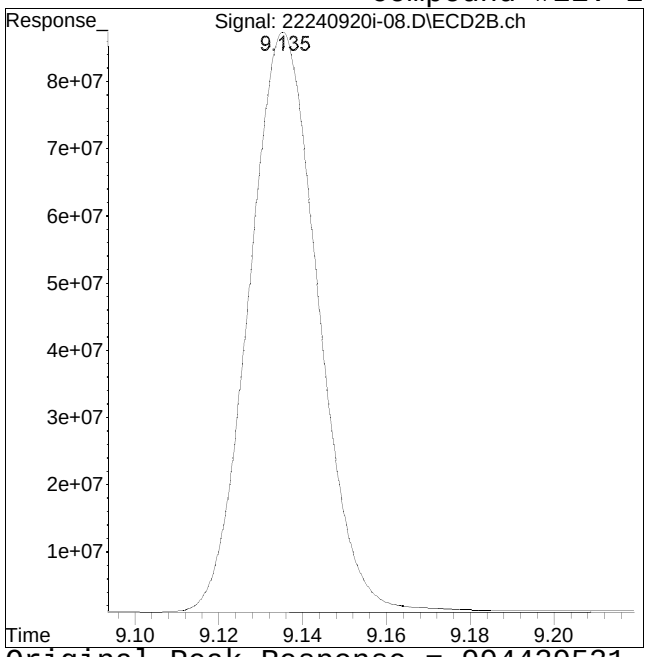


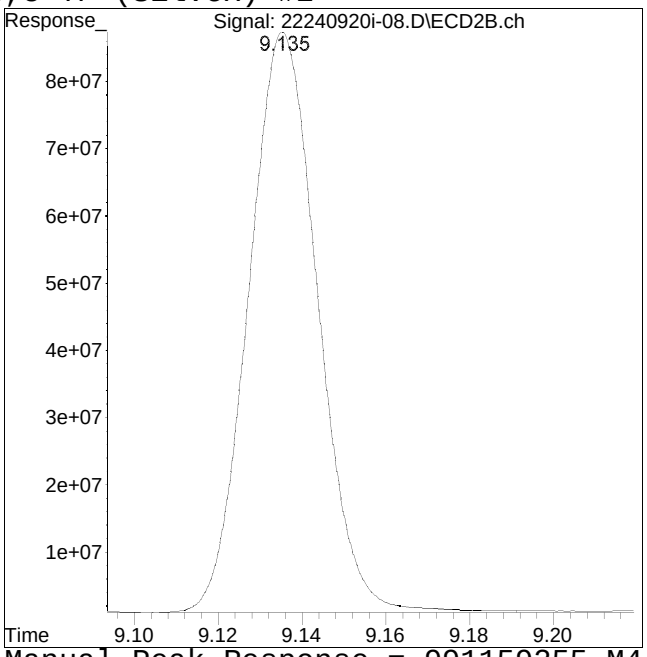
Original Peak Response = 817156817 Manual Peak Response = 800612520 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #22: 2,4,5-TP (Silvex) #2



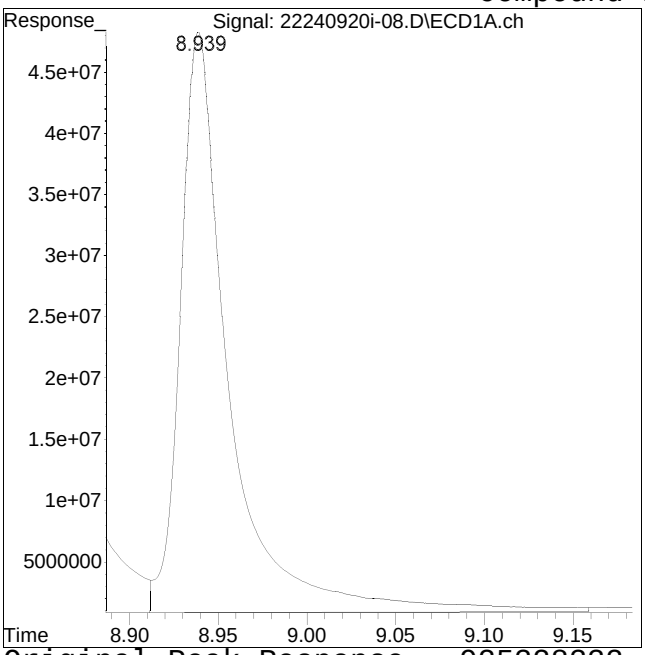


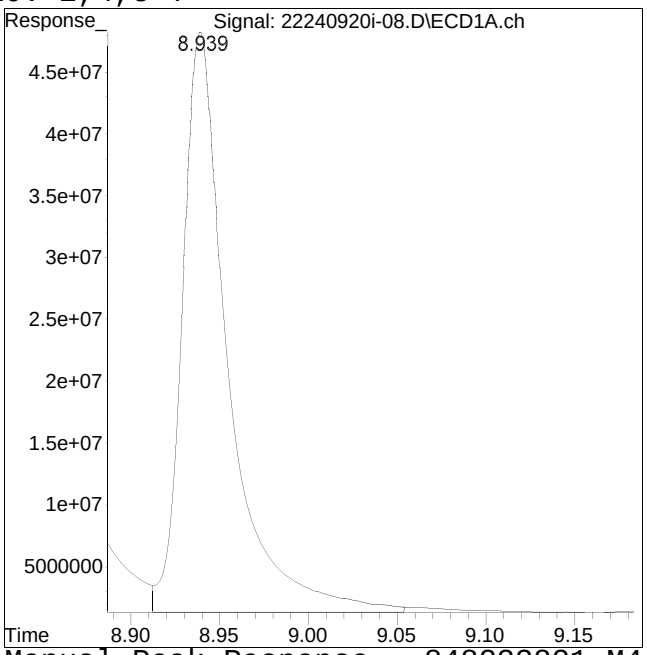
Original Peak Response = 994439531 Manual Peak Response = 991159255 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #10: 2,4,5-T



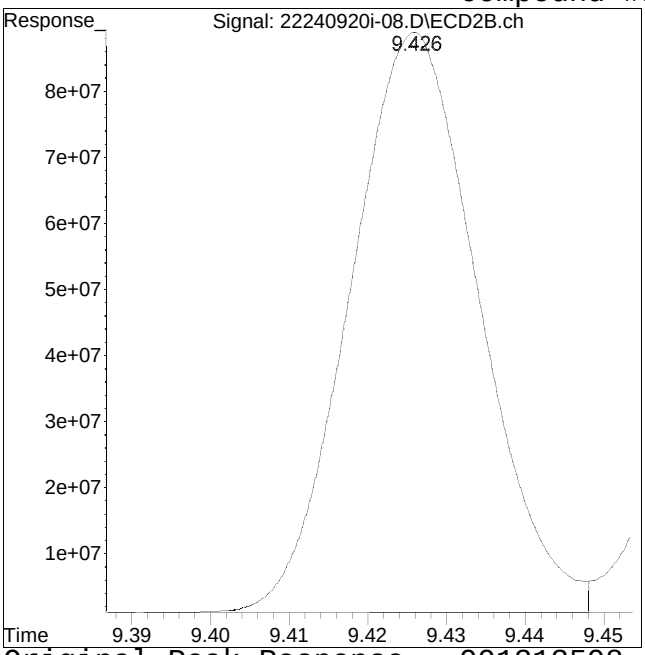


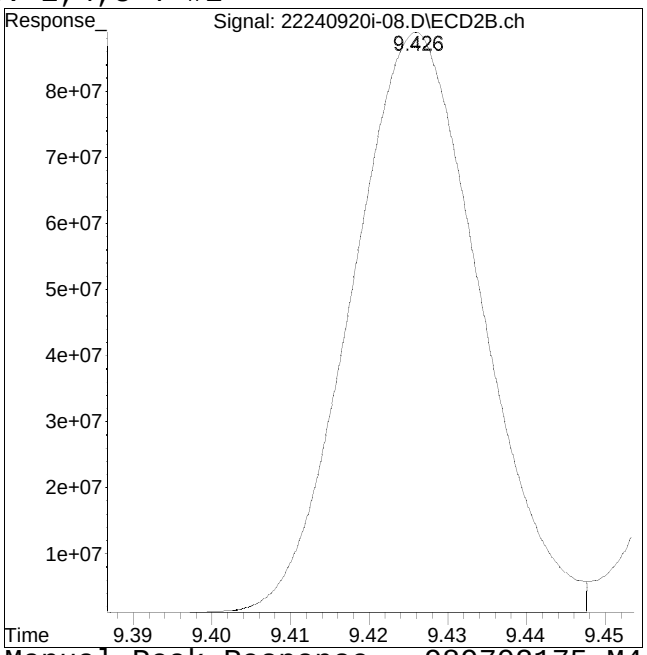
Original Peak Response = 925328332 Manual Peak Response = 848233821 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #23: 2,4,5-T #2



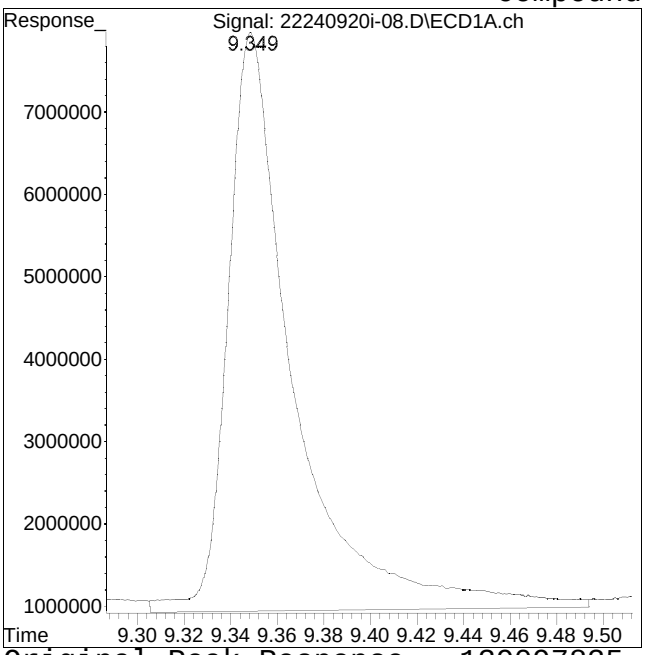


Original Peak Response = 991313598 Manual Peak Response = 989702175 M4
M4 = Poor automated baseline construction.

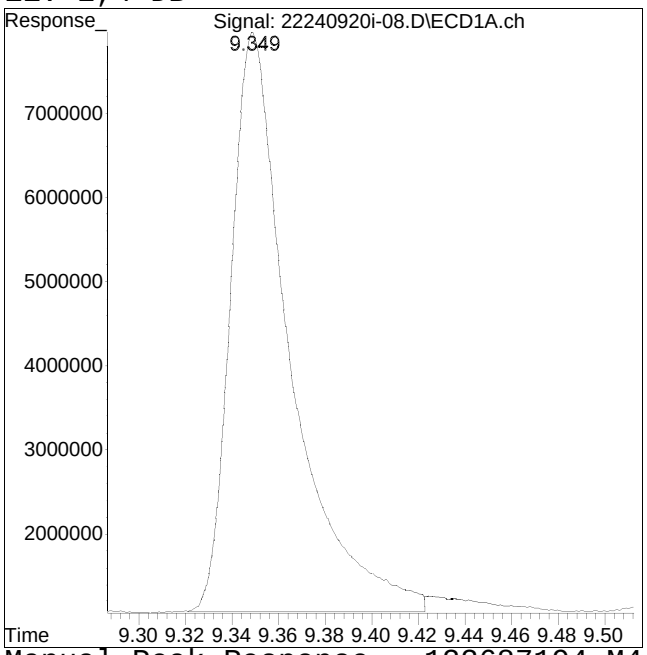
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #11: 2,4-DB



Original Peak Response = 139097835

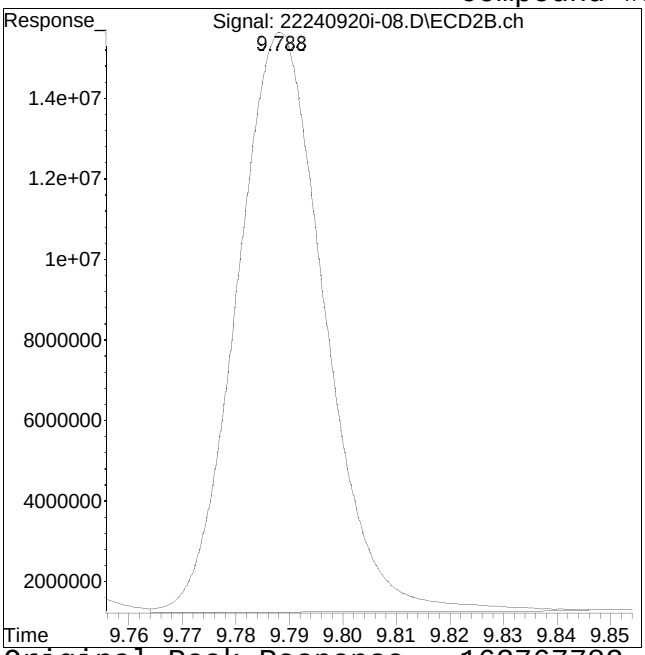


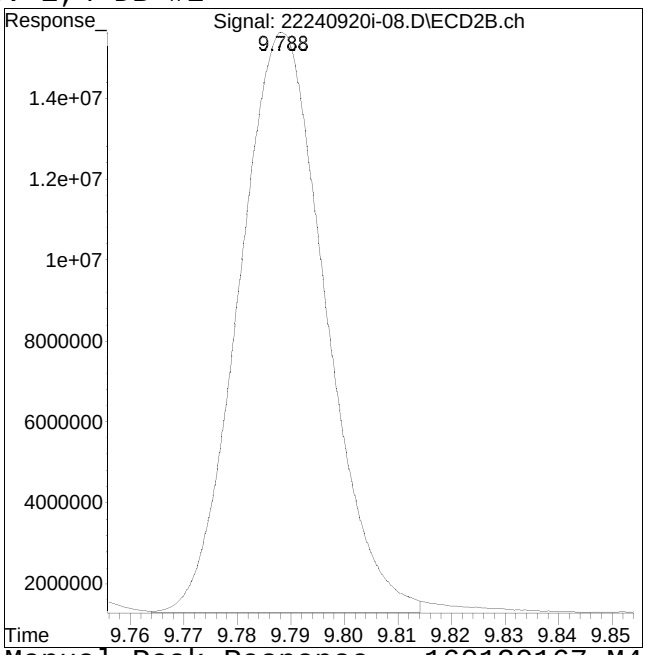
Manual Peak Response = 122687194 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #24: 2,4-DB #2



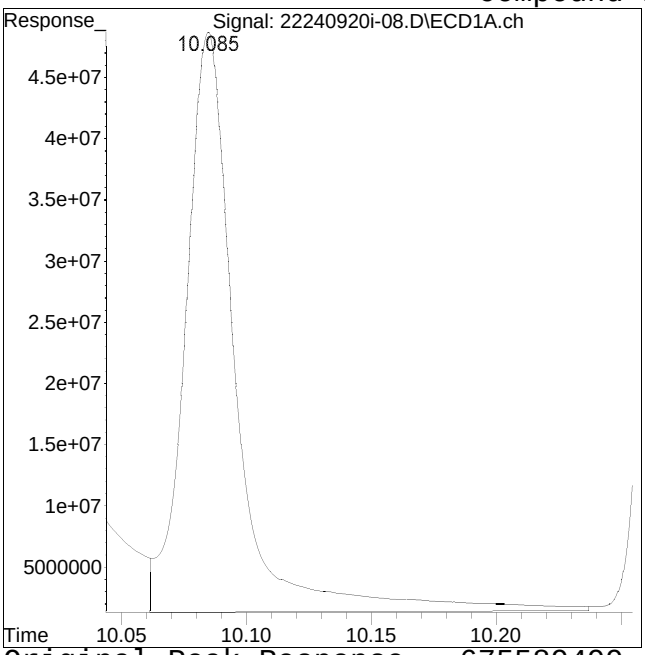


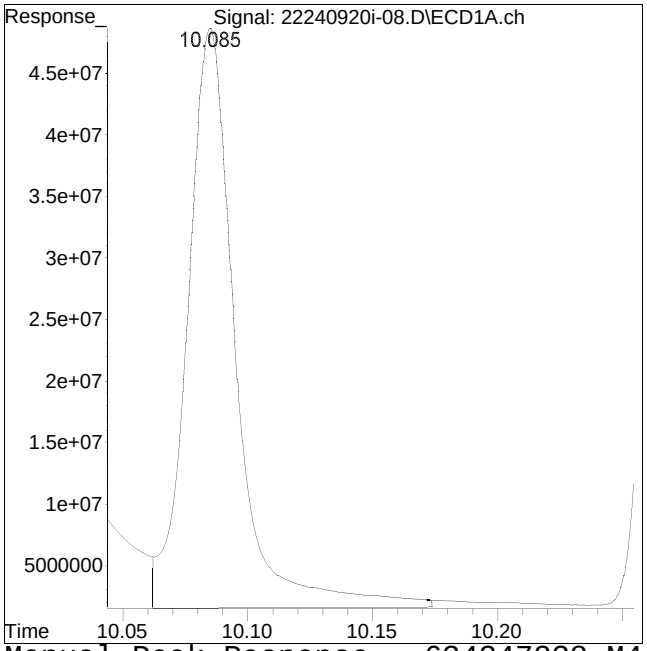
Original Peak Response = 163767782 Manual Peak Response = 160120167 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #12: Dinoseb



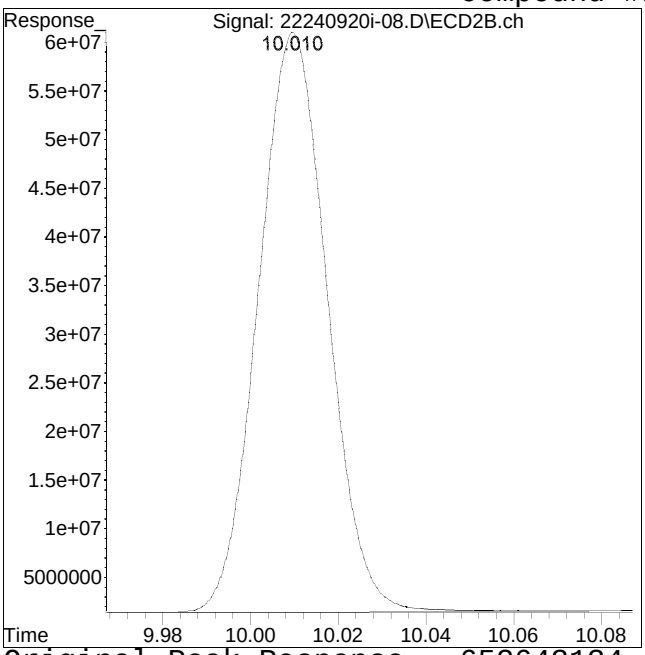


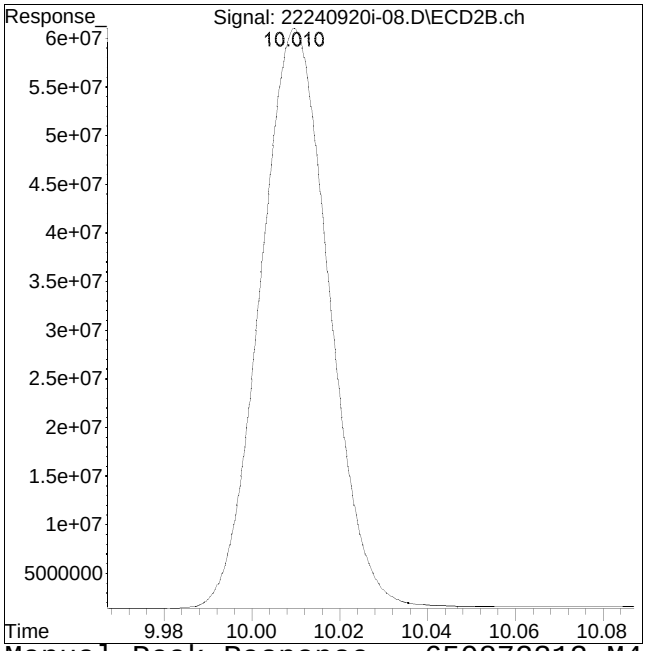
Original Peak Response = 675589499 Manual Peak Response = 634347238 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #25: Dinoseb #2





Original Peak Response = 652643134 Manual Peak Response = 650872313 M4
M4 = Poor automated baseline construction.

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST22	**Calibration Date**	: 09/27/24 12:43
Lab File ID	: 22240926a-94	**Init. Calib. Date(s)**	: 09/20/24 09/20/24
Sample No	: WG1976540-8	**Init. Calib. Times**	: 11:42 13:15
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	104	0
Dalapon	0.234	0.238	-	-1.7	15	102	0
DCAA (surrogate)	0.184	0.202	-	-9.8	15	110	0
Dicamba	0.568	0.621	-	-9.3	15	112	0
MCPP	0.00048	0.00051	-	-6.3	15	110	0
MCPA	0.00087	0.00094	-	-8	15	107	0
Dichloroprop	0.175	0.187	-	-6.9	15	107	0
2,4-D	0.213	0.225	-	-5.6	15	110	0
2,4,5-TP (Silvex)	0.772	0.815	-	-5.6	15	107	0
2,4,5-T	0.792	0.821	-	-3.7	15	107	0
2,4-DB	0.116	0.121	-	-4.3	15	107	0
Dinoseb	0.59	0.537	-	9	15	92	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST22	**Calibration Date**	: 09/27/24 12:43
Lab File ID	: 22240926a-94	**Init. Calib. Date(s)**	: 09/20/24 09/20/24
Sample No	: WG1976540-8	**Init. Calib. Times**	: 11:42 13:15
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	107	0
Dalapon	0.202	0.211	-	-4.5	15	102	0
DCAA (surrogate)	0.189	0.197	-	-4.2	15	110	0
Dicamba	0.534	0.569	-	-6.6	15	112	0
MCPP	0.00053	0.00055	-	-3.8	15	112	0
MCPA	0.00095	0.001	-	-5.3	15	111	0
Dichloroprop	0.173	0.18	-	-4	15	108	0
2,4-D	0.222	0.231	-	-4.1	15	109	0
2,4,5-TP (Silvex)	0.776	0.802	-	-3.4	15	107	0
2,4,5-T	0.768	0.766	-	0.3	15	105	0
2,4-DB	0.126	0.125	-	0.8	15	104	0
Dinoseb	0.49	0.507	-	-3.5	15	107	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST22	**Calibration Date**	: 09/28/24 10:27	
Lab File ID	: 22240928a-01	**Init. Calib. Date(s)**	: 09/20/24	09/20/24
Sample No	: WG1977565-1	**Init. Calib. Times**	: 11:42	13:15
Channel	: A			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	100	0
Dalapon	0.234	0.261	-	-11.5	15	108	0
DCAA (surrogate)	0.184	0.203	-	-10.3	15	107	0
Dicamba	0.568	0.619	-	-9	15	108	0
MCPP	0.00048	0.00049	-	-2.1	15	102	0
MCPA	0.00087	0.00095	-	-9.2	15	105	0
Dichloroprop	0.175	0.191	-	-9.1	15	106	0
2,4-D	0.213	0.235	-	-10.3	15	111	0
2,4,5-TP (Silvex)	0.772	0.855	-	-10.8	15	108	0
2,4,5-T	0.792	0.893	-	-12.8	15	112	0
2,4-DB	0.116	0.132	-	-13.8	15	112	0
Dinoseb	0.59	0.602	-	-2	15	99	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST22	**Calibration Date**	: 09/28/24 10:27
Lab File ID	: 22240928a-01	**Init. Calib. Date(s)**	: 09/20/24 09/20/24
Sample No	: WG1977565-1	**Init. Calib. Times**	: 11:42 13:15
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	105	0
Dalapon	0.202	0.216	-	-6.9	15	102	0
DCAA (surrogate)	0.189	0.204	-	-7.9	15	111	0
Dicamba	0.534	0.571	-	-6.9	15	110	0
MCPP	0.00053	0.00055	-	-3.8	15	111	0
MCPA	0.00095	0.00101	-	-6.3	15	110	0
Dichloroprop	0.173	0.188	-	-8.7	15	111	0
2,4-D	0.222	0.247	-	-11.3	15	114	0
2,4,5-TP (Silvex)	0.776	0.85	-	-9.5	15	111	0
2,4,5-T	0.768	0.828	-	-7.8	15	111	0
2,4-DB	0.126	0.136	-	-7.9	15	111	0
Dinoseb	0.49	0.539	-	-10	15	112	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-94.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Sep 2024 12:43
Operator : pest22:akm
Sample   : wg1976540-8,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc   : wg1976540,,ical21511
ALS Vial : 94   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:17:18 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	104	0.00
2	t	Dalapon		0.234	0.238	-1.7	102	0.00
3	s	DCAA (surrogate)		0.184	0.202	-9.8	110	0.00
4	t	Dicamba		0.568	0.621	-9.3	112	0.00
5	t	MCPP		0.00048	0.00051	-6.3	110	0.00
6	t	MCPA		0.00087	0.00094	-8.0	107	0.00
7	t	Dichloroprop		0.175	0.187	-6.9	107	0.00
8	t	2,4-D		0.213	0.225	-5.6	110	0.00
9	t	2,4,5-TP (Silvex)		0.772	0.815	-5.6	107	0.00
10	t	2,4,5-T		0.792	0.821	-3.7	107	0.00
11	t	2,4-DB		0.116	0.121	-4.3	107	0.00
12	t	Dinoseb		0.590	0.537	9.0	92	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	107	0.00
2	t	Dalapon		0.202	0.211	-4.5	102	0.00
3	s	DCAA (surrogate)		0.189	0.197	-4.2	110	0.00
4	t	Dicamba		0.534	0.569	-6.6	112	0.00
5	t	MCPP		0.00053	0.00055	-3.8	112	0.00
6	t	MCPA		0.00095	0.00100	-5.3	111	0.00
7	t	Dichloroprop		0.173	0.180	-4.0	108	0.00
8	t	2,4-D		0.222	0.231	-4.1	109	0.00
9	t	2,4,5-TP (Silvex)		0.776	0.802	-3.4	107	0.00
10	t	2,4,5-T		0.768	0.766	0.3	105	0.00
11	t	2,4-DB		0.126	0.125	0.8	104	0.00
12	t	Dinoseb		0.490	0.507	-3.5	107	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-94.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Sep 2024 12:43
Operator : pest22:akm
Sample   : wg1976540-8,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc   : wg1976540,,ical21511
ALS Vial : 94   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:17:18 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-94.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 12:43
Operator : pest22:akm
Sample : wg1976540-8,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1976540,,ical21511
ALS Vial : 94 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:17:18 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.436	8.436	1370.0E6	1745.9E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.892	7.362	208.6E6	259.3E6	0.207M4	0.196M4
		Spiked Amount	0.500	Range	30 - 150	Recovery =	41.40%	39.20%
		Target Compounds						
2)	t	Dalapon	2.322	2.318	237.2E6	267.7E6	0.185M3	0.190M4
4)	t	Dicamba	7.073	7.542	639.9E6	747.1E6	0.206M4	0.201M4
5)	t	MCPP	7.276	7.655	52858234	71944452	19.947	19.617
6)	t	MCPA	7.421	7.882	95418031	130.2E6	20.013M4	19.568
7)	t	Dichloroprop	7.776	8.200	192.7E6	236.6E6	0.201M4	0.196M4
8)	t	2,4-D	7.989	8.477	231.9E6	303.0E6	0.199	0.195
9)	t	2,4,5-TP (Si	8.707	9.137	848.6E6	1064.6E6	0.201	0.197
10)	t	2,4,5-T	8.929	9.427	854.9E6	1016.6E6	0.197	0.190
11)	t	2,4-DB	9.337	9.788	127.6E6	167.6E6	0.201	0.191M4
12)	t	Dinoseb	10.085	10.012	559.0E6	672.2E6	0.173M4	0.197M4
		SemiQuant Compounds - Not Calibrated on this Instrument						

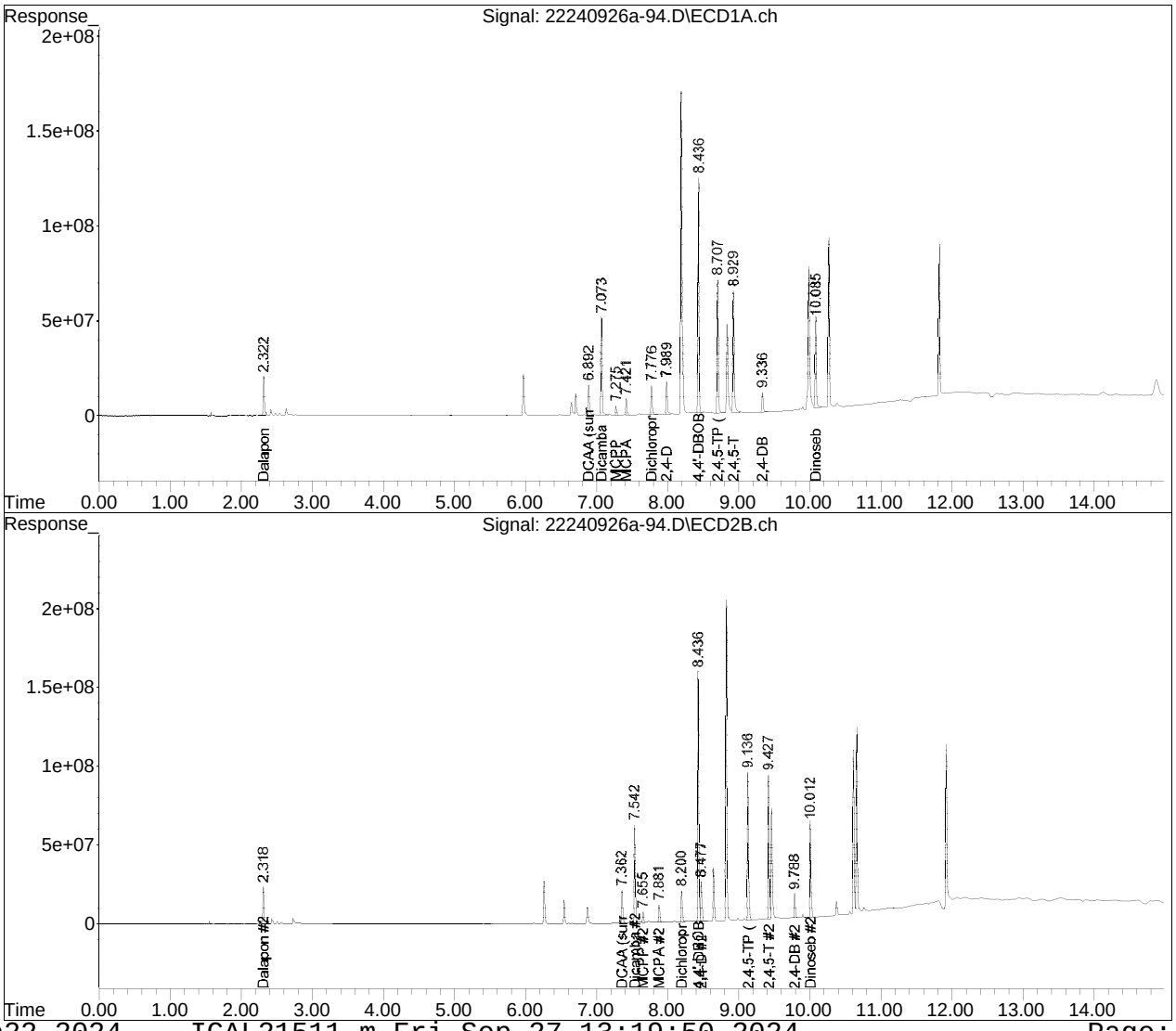
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-94.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 12:43
Operator : pest22:akm
Sample : wg1976540-8,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1976540,,ical21511
ALS Vial : 94 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:17:18 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

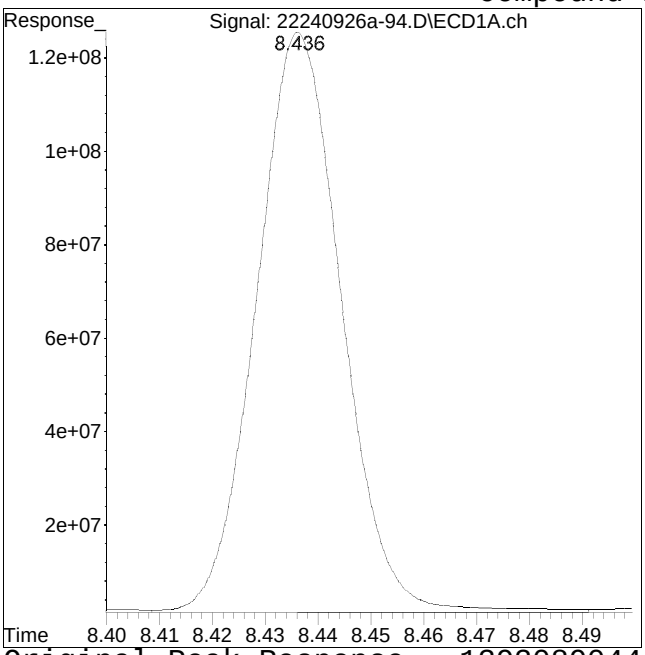
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

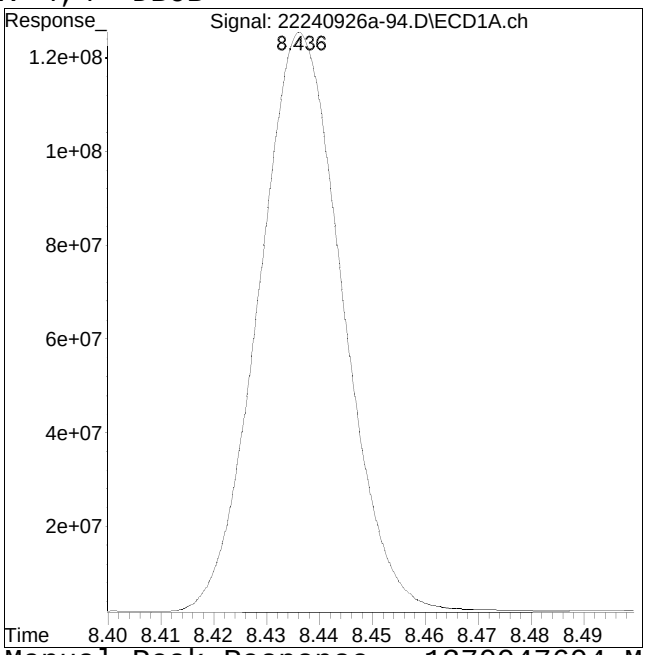


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-94.D Operator : pest22:akm
Date Inj'd : 9/27/2024 12:43 Instrument : Pest22
Sample : wg1976540-8,42,,herb11705 Quant Date : 9/27/2024 1:17 pm

Compound #1: 4,4'-DBOB



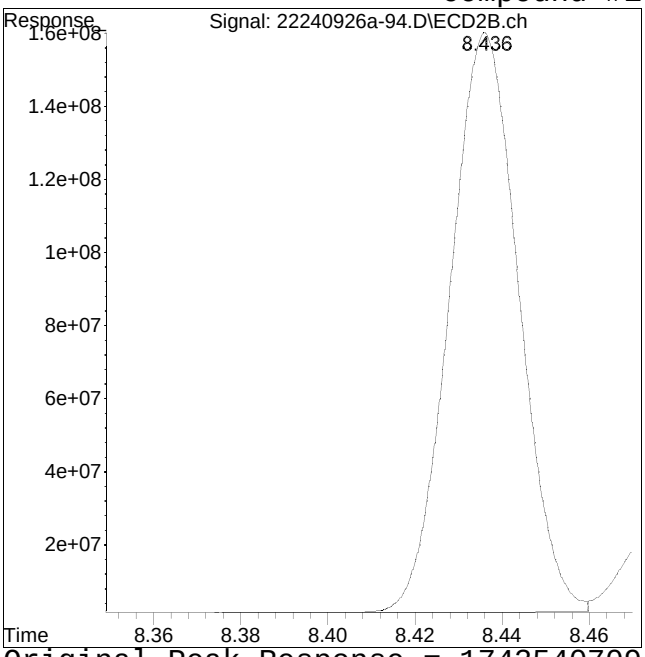


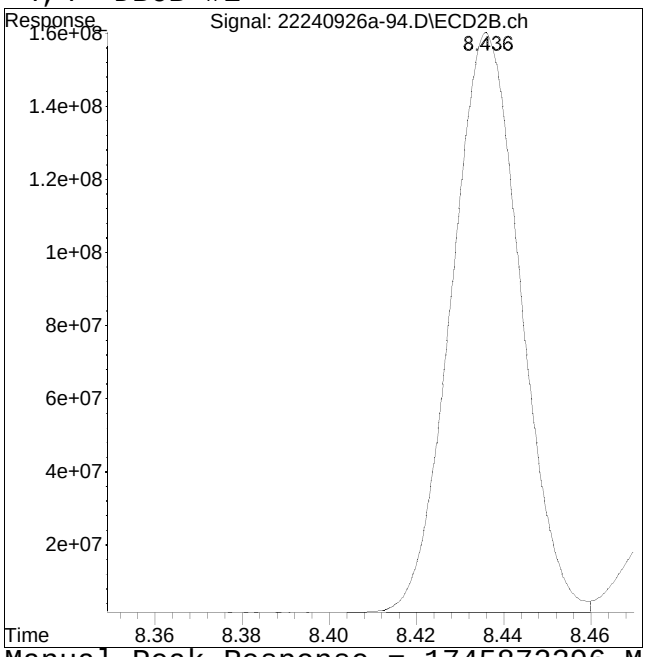
Original Peak Response = 1393089044 Manual Peak Response = 1370047604 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-94.D Operator : pest22:akm
Date Inj'd : 9/27/2024 12:43 Instrument : Pest22
Sample : wg1976540-8,42,,herb11705 Quant Date : 9/27/2024 1:17 pm

Compound #14: 4,4'-DBOB #2



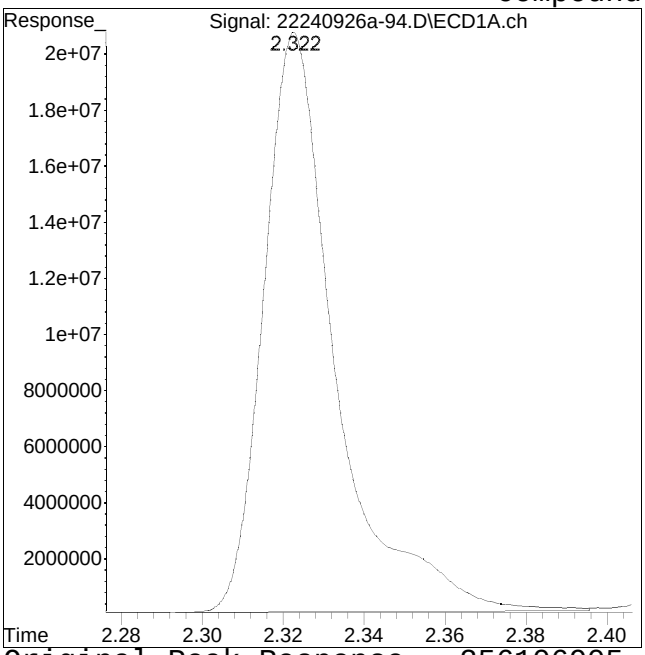


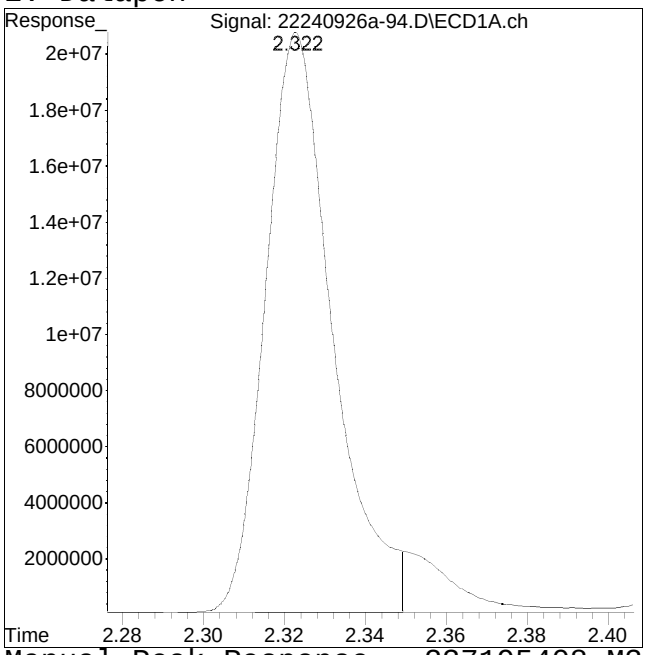
Original Peak Response = 1743540709 Manual Peak Response = 1745872396 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-94.D Operator : pest22:akm
Date Inj'd : 9/27/2024 12:43 Instrument : Pest22
Sample : wg1976540-8,42,,herb11705 Quant Date : 9/27/2024 1:17 pm

Compound #2: Dalapon



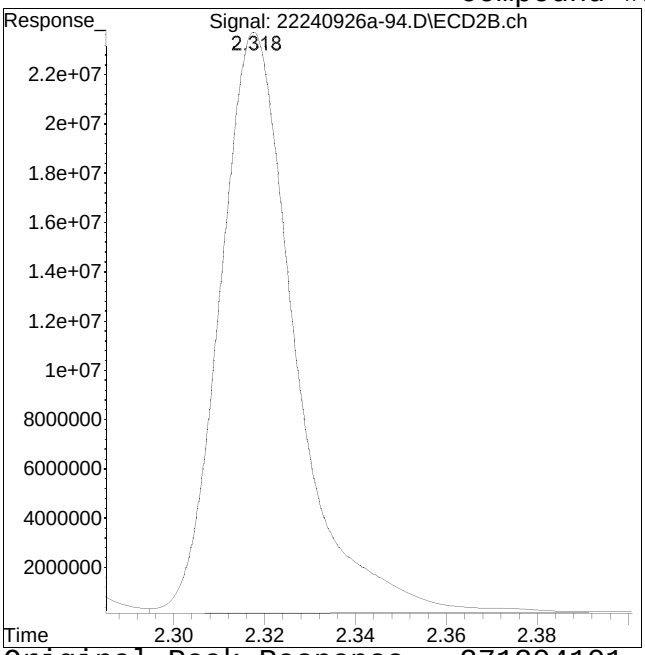


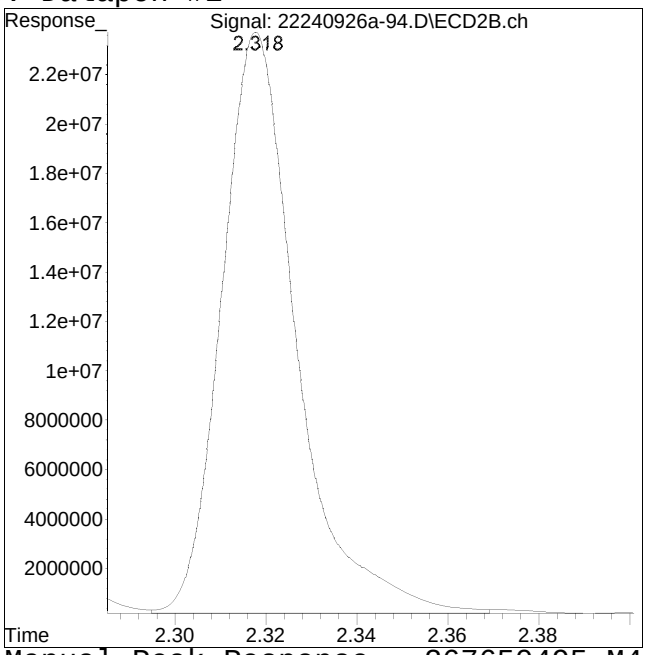
Original Peak Response = 256106905 Manual Peak Response = 237195408 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-94.D Operator : pest22:akm
Date Inj'd : 9/27/2024 12:43 Instrument : Pest22
Sample : wg1976540-8,42,,herb11705 Quant Date : 9/27/2024 1:17 pm

Compound #15: Dalapon #2



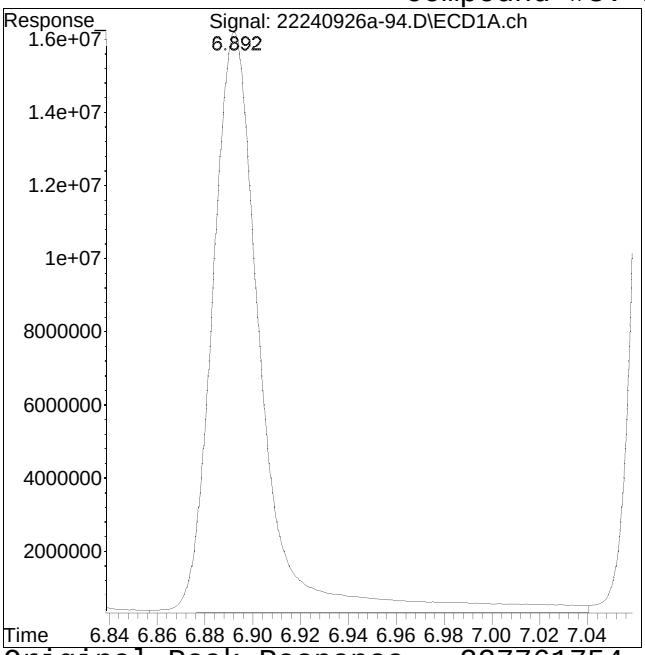


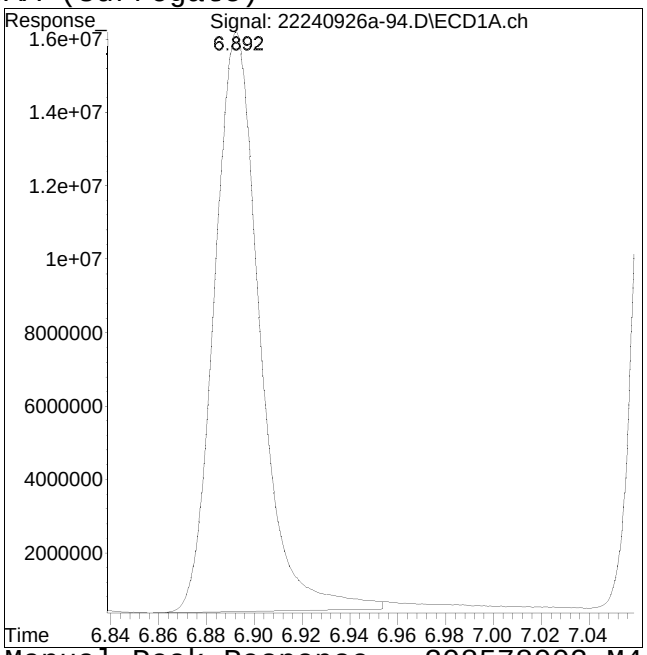
Original Peak Response = 271204101 Manual Peak Response = 267650495 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-94.D Operator : pest22:akm
Date Inj'd : 9/27/2024 12:43 Instrument : Pest22
Sample : wg1976540-8,42,,herb11705 Quant Date : 9/27/2024 1:17 pm

Compound #3: DCAA (surrogate)



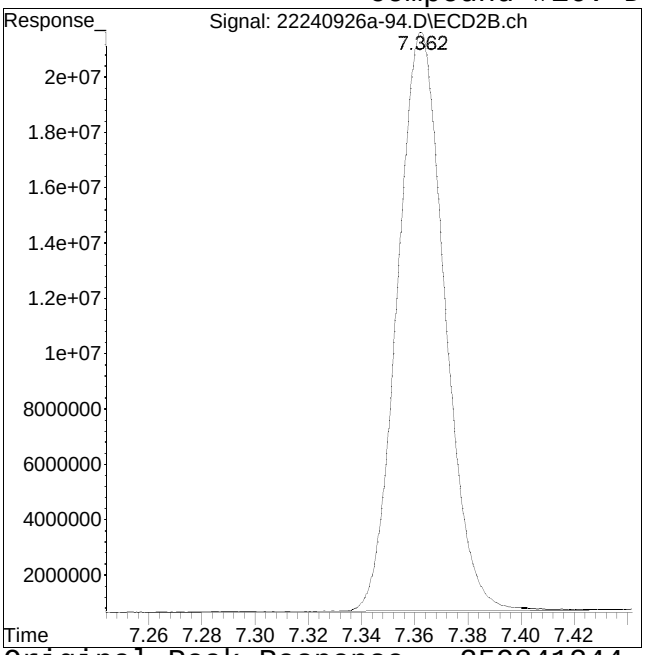


Original Peak Response = 227761754 Manual Peak Response = 208578002 M4
M4 = Poor automated baseline construction.

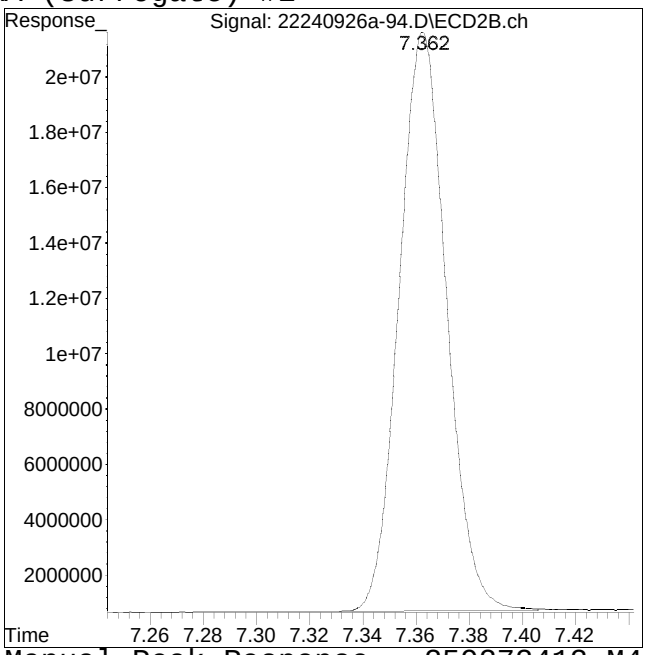
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-94.D Operator : pest22:akm
Date Inj'd : 9/27/2024 12:43 Instrument : Pest22
Sample : wg1976540-8,42,,herb11705 Quant Date : 9/27/2024 1:17 pm

Compound #16: DCAA (surrogate) #2



Original Peak Response = 259841244



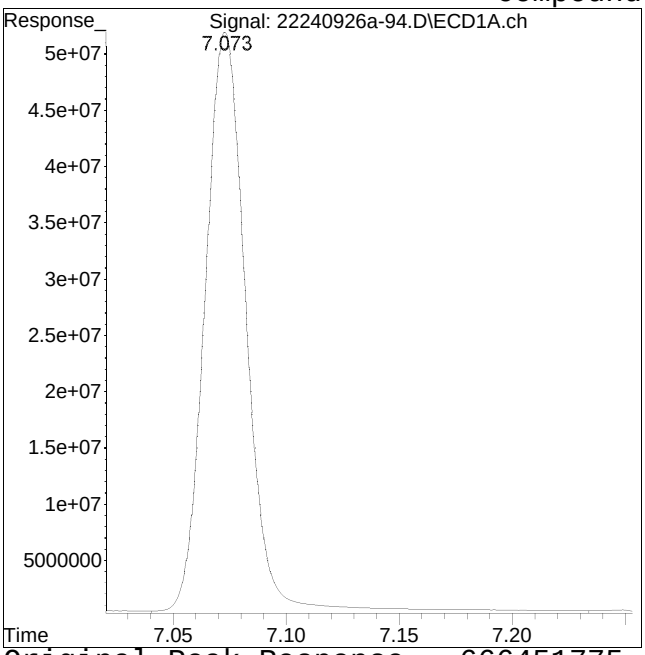
Manual Peak Response = 259272412 M4

M4 = Poor automated baseline construction.

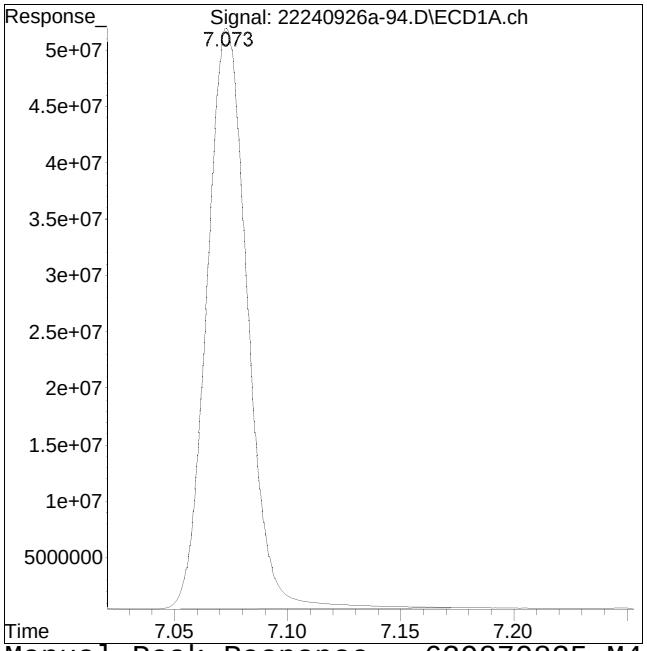
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-94.D Operator : pest22:akm
Date Inj'd : 9/27/2024 12:43 Instrument : Pest22
Sample : wg1976540-8,42,,herb11705 Quant Date : 9/27/2024 1:17 pm

Compound #4: Dicamba



Original Peak Response = 666451775



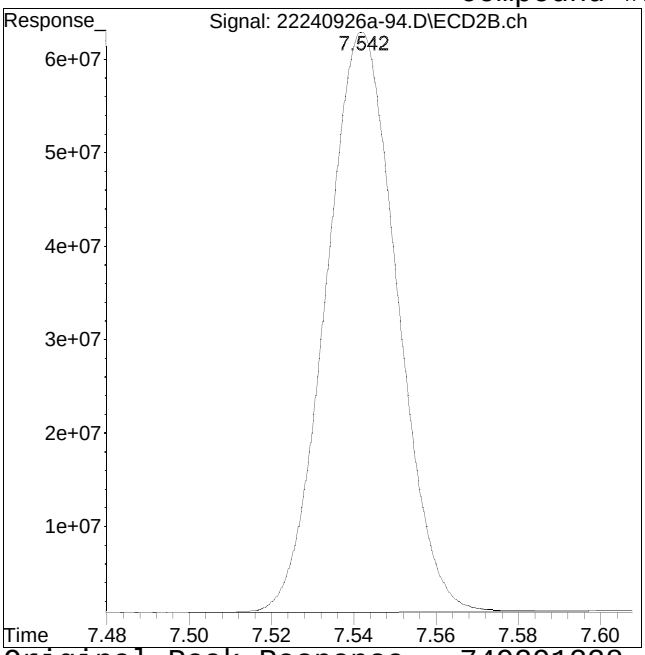
Manual Peak Response = 639870835 M4

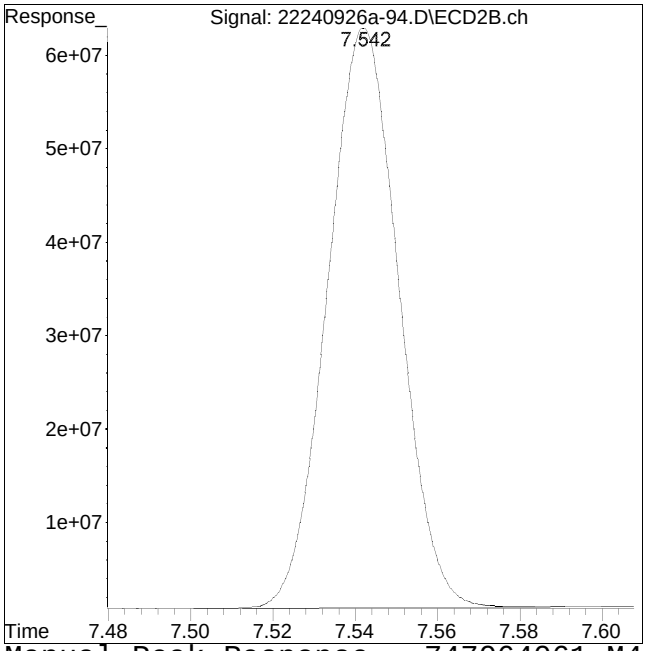
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-94.D Operator : pest22:akm
Date Inj'd : 9/27/2024 12:43 Instrument : Pest22
Sample : wg1976540-8,42,,herb11705 Quant Date : 9/27/2024 1:17 pm

Compound #17: Dicamba #2



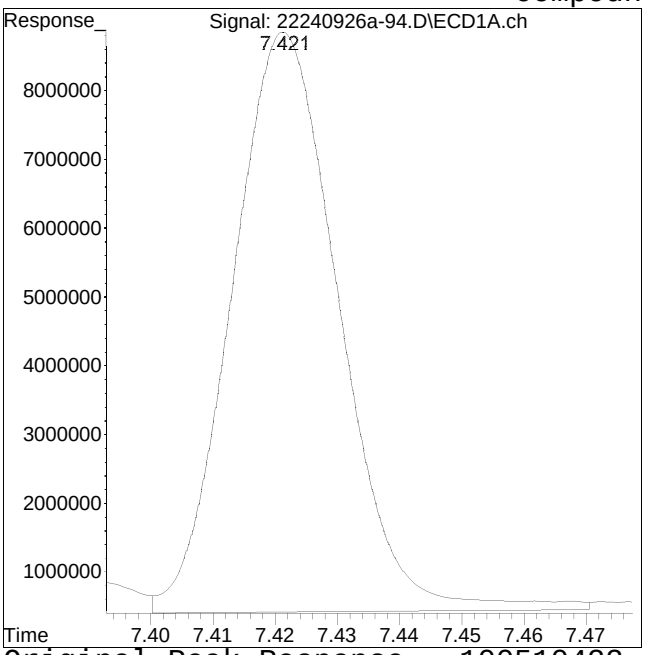


Original Peak Response = 749291228 Manual Peak Response = 747064061 M4
M4 = Poor automated baseline construction.

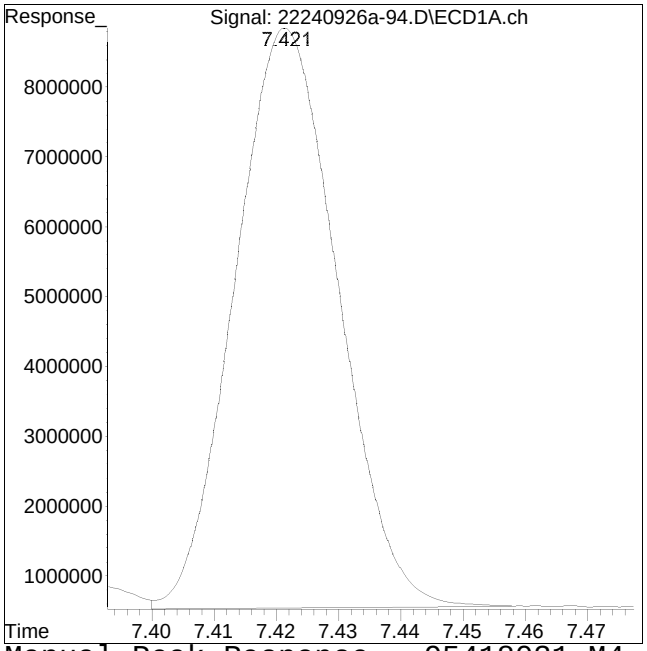
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-94.D Operator : pest22:akm
Date Inj'd : 9/27/2024 12:43 Instrument : Pest22
Sample : wg1976540-8,42,,herb11705 Quant Date : 9/27/2024 1:17 pm

Compound #6: MCPA



Original Peak Response = 100510422



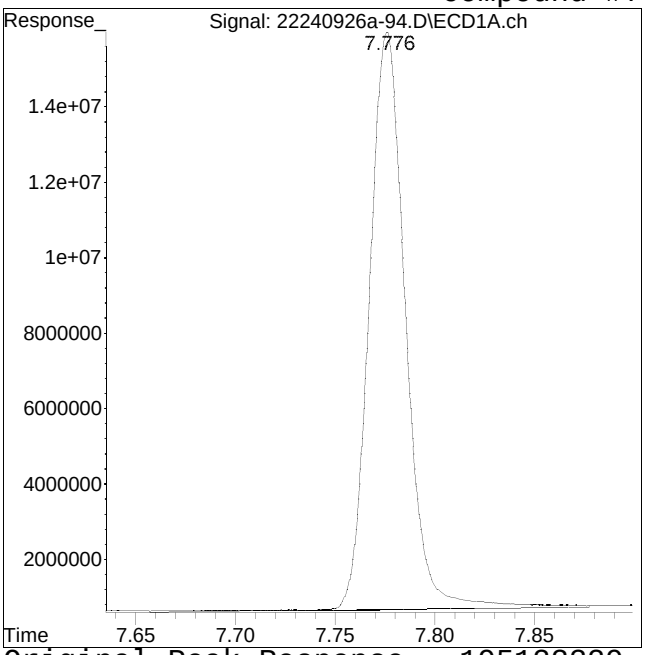
Manual Peak Response = 95418031 M4

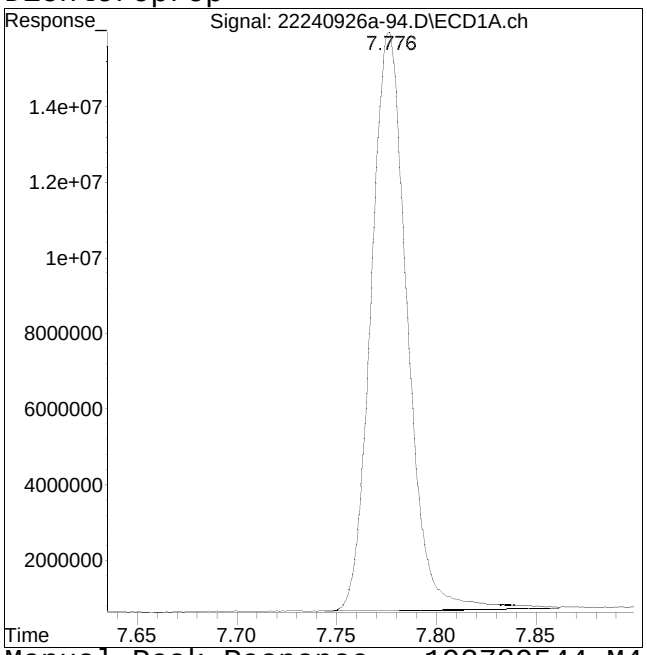
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-94.D Operator : pest22:akm
Date Inj'd : 9/27/2024 12:43 Instrument : Pest22
Sample : wg1976540-8,42,,herb11705 Quant Date : 9/27/2024 1:17 pm

Compound #7: Dichloroprop



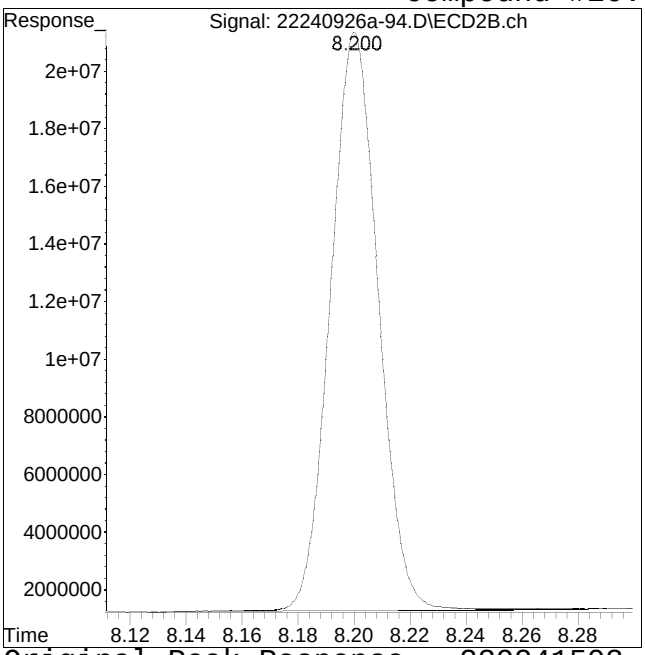


Original Peak Response = 195122329 Manual Peak Response = 192739544 M4
M4 = Poor automated baseline construction.

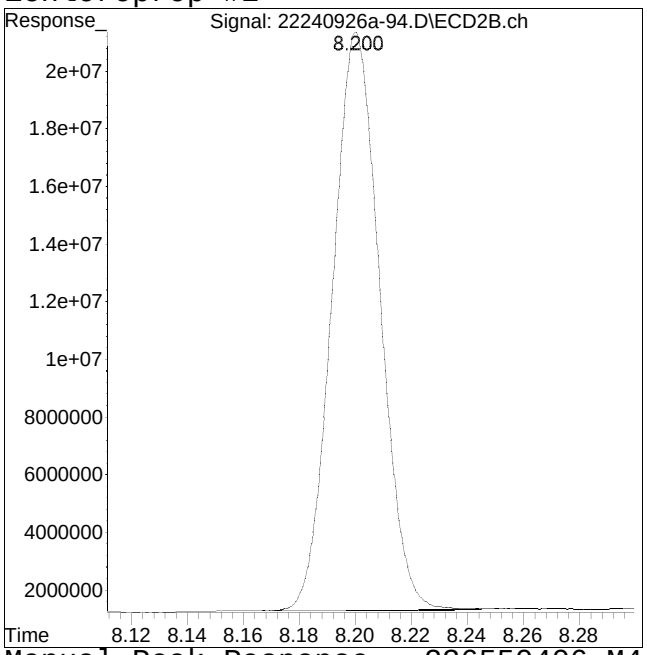
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-94.D Operator : pest22:akm
Date Inj'd : 9/27/2024 12:43 Instrument : Pest22
Sample : wg1976540-8,42,,herb11705 Quant Date : 9/27/2024 1:17 pm

Compound #20: Dichloroprop #2



Original Peak Response = 239241503



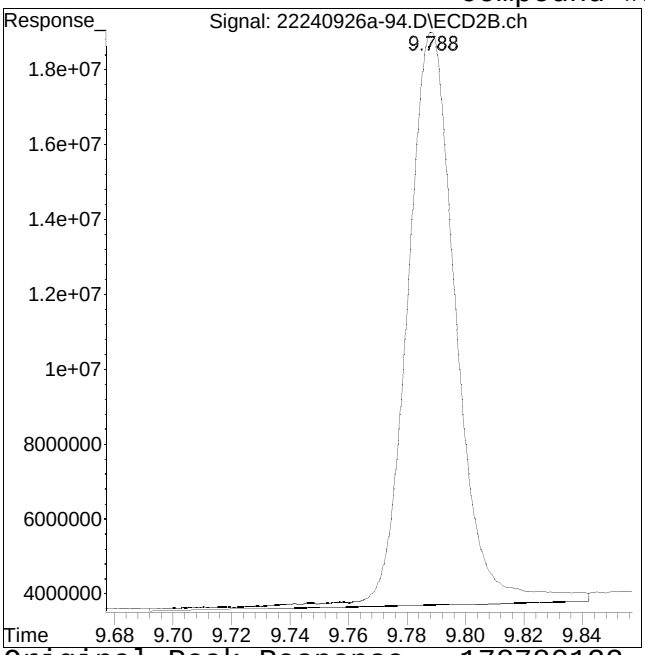
Manual Peak Response = 236550406 M4

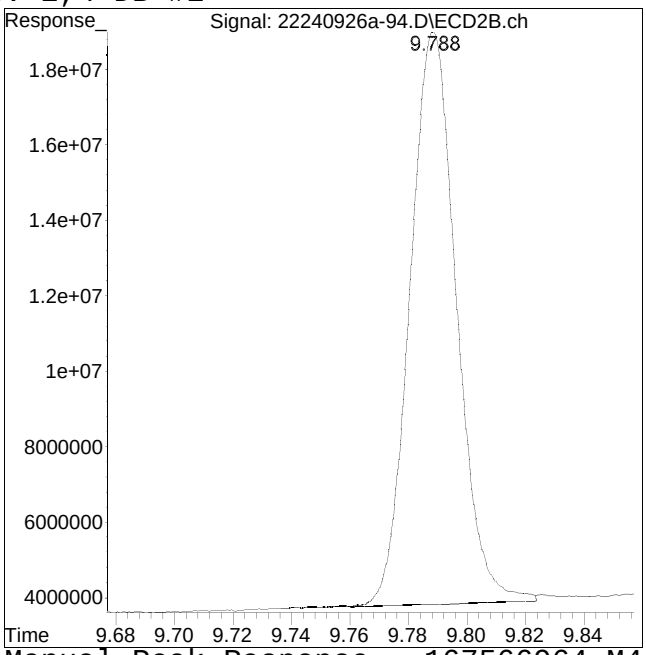
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-94.D Operator : pest22:akm
Date Inj'd : 9/27/2024 12:43 Instrument : Pest22
Sample : wg1976540-8,42,,herb11705 Quant Date : 9/27/2024 1:17 pm

Compound #24: 2,4-DB #2



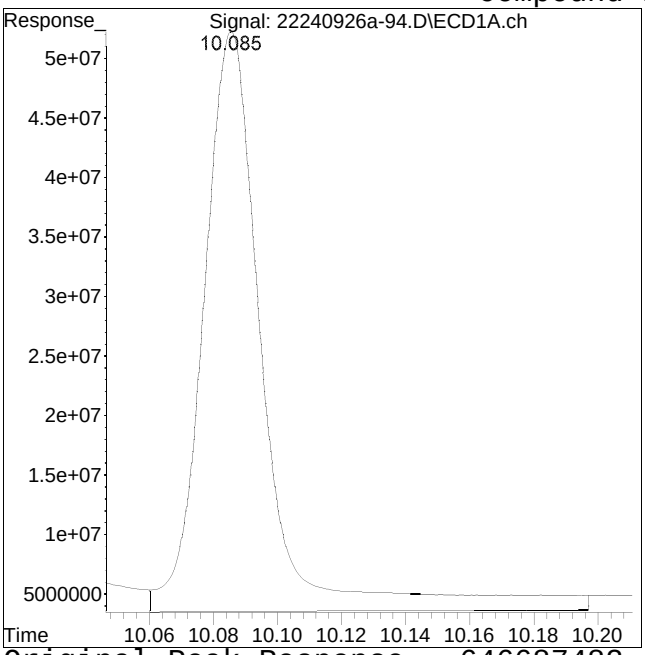


Original Peak Response = 178780122 Manual Peak Response = 167566964 M4
M4 = Poor automated baseline construction.

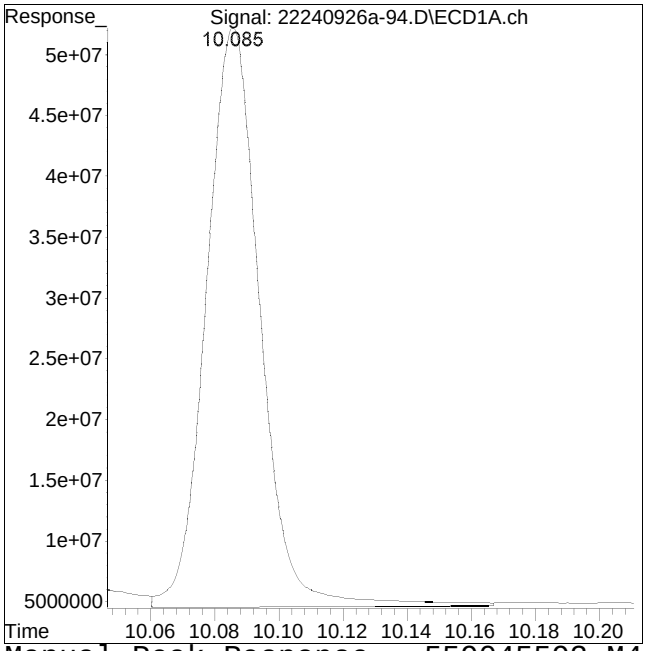
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-94.D Operator : pest22:akm
Date Inj'd : 9/27/2024 12:43 Instrument : Pest22
Sample : wg1976540-8,42,,herb11705 Quant Date : 9/27/2024 1:17 pm

Compound #12: Dinoseb



Original Peak Response = 646687482



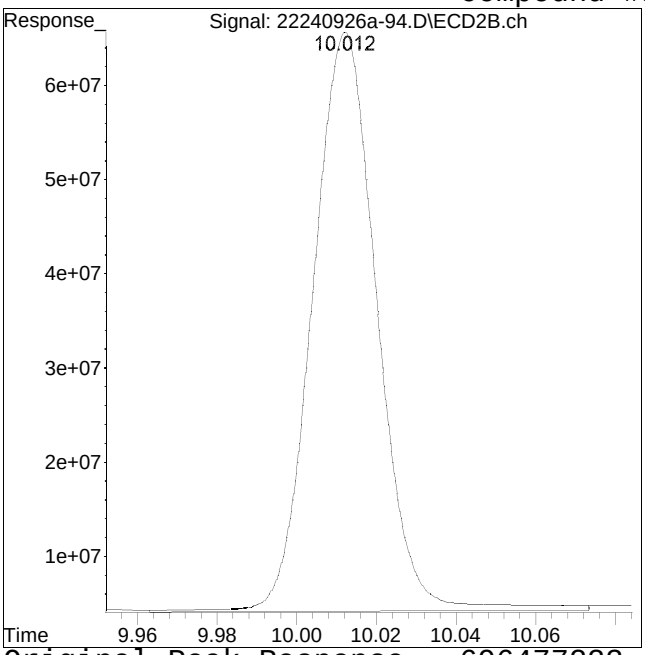
Manual Peak Response = 559045593 M4

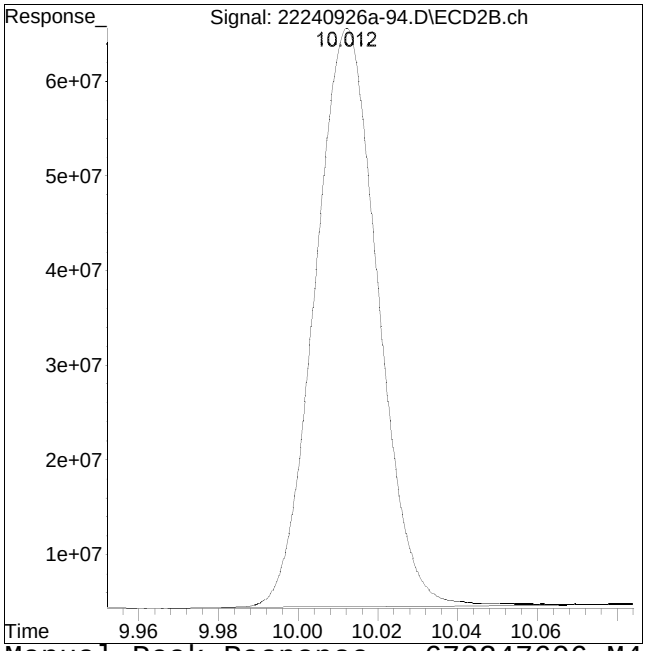
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-94.D Operator : pest22:akm
Date Inj'd : 9/27/2024 12:43 Instrument : Pest22
Sample : wg1976540-8,42,,herb11705 Quant Date : 9/27/2024 1:17 pm

Compound #25: Dinoseb #2





Original Peak Response = 696477223 Manual Peak Response = 672247606 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240928a\
Data File : 22240928a-01.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 28 Sep 2024 10:27
Operator : pest22:jag
Sample   : wg1977565-1,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc   : wg1977565,,ical21511
ALS Vial : 1   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 28 10:49:36 2024
Quant Method : I:\PEST\Pest22\2024\240928a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	100	0.00
2	t	Dalapon		0.234	0.261	-11.5	108	0.00
3	s	DCAA (surrogate)		0.184	0.203	-10.3	107	0.00
4	t	Dicamba		0.568	0.619	-9.0	108	0.00
5	t	MCPP		0.00048	0.00049	-2.1	102	0.00
6	t	MCPA		0.00087	0.00095	-9.2	105	0.00
7	t	Dichloroprop		0.175	0.191	-9.1	106	0.00
8	t	2,4-D		0.213	0.235	-10.3	111	0.00
9	t	2,4,5-TP (Silvex)		0.772	0.855	-10.8	108	0.00
10	t	2,4,5-T		0.792	0.893	-12.8	112	0.00
11	t	2,4-DB		0.116	0.132	-13.8	112	0.00
12	t	Dinoseb		0.590	0.602	-2.0	99	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	105	0.00
2	t	Dalapon		0.202	0.216	-6.9	102	0.00
3	s	DCAA (surrogate)		0.189	0.204	-7.9	111	0.00
4	t	Dicamba		0.534	0.571	-6.9	110	0.00
5	t	MCPP		0.00053	0.00055	-3.8	111	0.00
6	t	MCPA		0.00095	0.00101	-6.3	110	0.00
7	t	Dichloroprop		0.173	0.188	-8.7	111	0.00
8	t	2,4-D		0.222	0.247	-11.3	114	0.00
9	t	2,4,5-TP (Silvex)		0.776	0.850	-9.5	111	0.00
10	t	2,4,5-T		0.768	0.828	-7.8	111	0.00
11	t	2,4-DB		0.126	0.136	-7.9	111	0.00
12	t	Dinoseb		0.490	0.539	-10.0	112	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240928a\
Data File : 22240928a-01.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 28 Sep 2024 10:27
Operator : pest22:jag
Sample   : wg1977565-1,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc   : wg1977565,,ical21511
ALS Vial : 1   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 28 10:49:36 2024
Quant Method : I:\PEST\Pest22\2024\240928a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240928a\
Data File : 22240928a-01.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Sep 2024 10:27
Operator : pest22:jag
Sample : wg1977565-1,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1977565,,ical21511
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 28 10:49:36 2024
Quant Method : I:\PEST\Pest22\2024\240928a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.437	8.436	1319.6E6	1708.6E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.895	7.363	201.7E6	261.8E6	0.208M4	0.202
		Spiked Amount	0.500	Range 30 - 150		Recovery =	41.60%	40.40%
		Target Compounds						
2)	t	Dalapon	2.326	2.320	250.5E6	268.5E6	0.203M4	0.195
4)	t	Dicamba	7.075	7.543	614.6E6	734.0E6	0.205M4	0.201
5)	t	MCPP	7.276	7.655	49092015	70883365	19.235	19.749
6)	t	MCPA	7.422	7.882	93359552	128.5E6	20.331M4	19.733
7)	t	Dichloroprop	7.778	8.201	189.6E6	241.7E6	0.206M4	0.205
8)	t	2,4-D	7.995	8.478	233.5E6	316.9E6	0.208	0.209
9)	t	2,4,5-TP (Si	8.710	9.137	857.1E6	1103.4E6	0.210M4	0.208
10)	t	2,4,5-T	8.934	9.428	896.0E6	1075.0E6	0.214M3	0.205
11)	t	2,4-DB	9.342	9.789	133.9E6	178.7E6	0.219M4	0.208
12)	t	Dinoseb	10.086	10.012	603.3E6	699.5E6	0.194M3	0.209M4

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240928a\
Data File : 22240928a-01.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Sep 2024 10:27
Operator : pest22:jag
Sample : wg1977565-1,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1977565,,ical21511
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 28 10:49:36 2024
Quant Method : I:\PEST\Pest22\2024\240928a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

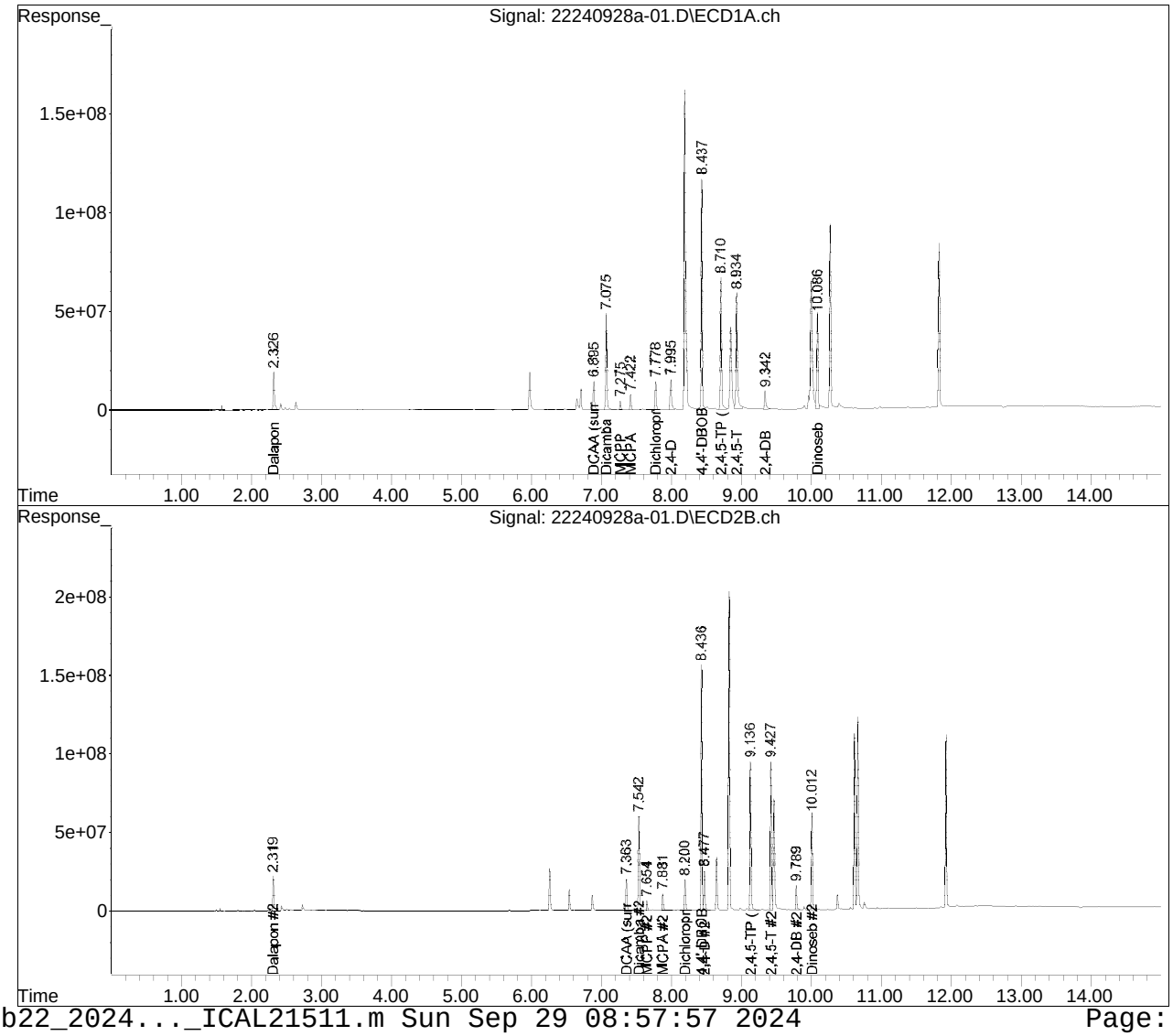
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240928a\
Data File : 22240928a-01.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Sep 2024 10:27
Operator : pest22:jag
Sample : wg1977565-1,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1977565,,ical21511
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 28 10:49:36 2024
Quant Method : I:\PEST\Pest22\2024\240928a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

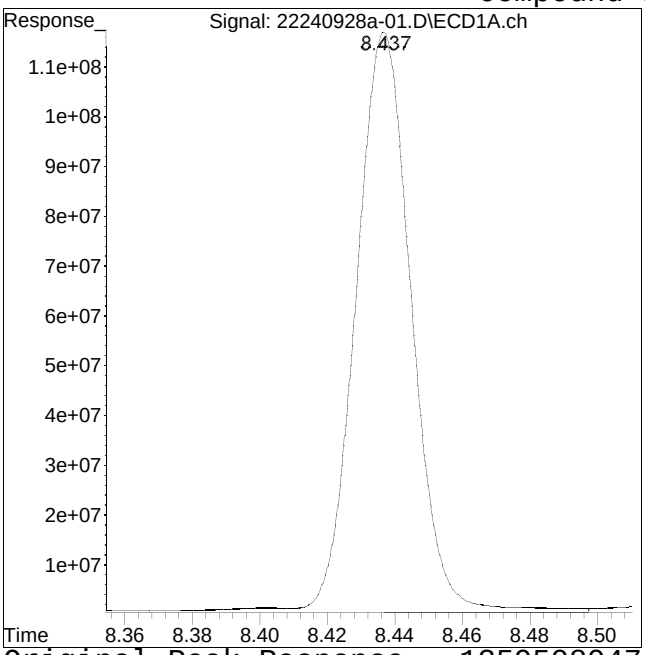
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

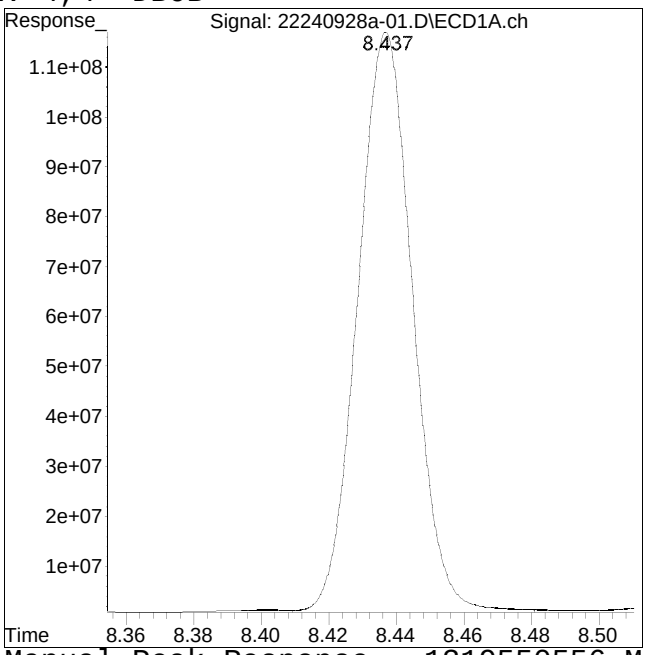


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240928QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240928a-01.D Operator : pest22:jag
Date Inj'd : 9/28/2024 10:27 Instrument : Pest22
Sample : wg1977565-1,42,,herb11705 Quant Date : 9/28/2024 10:49 am

Compound #1: 4,4'-DBOB



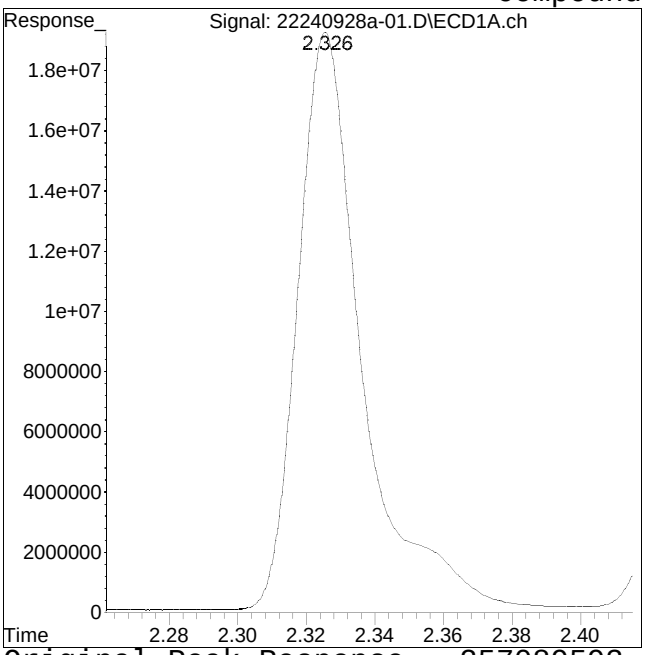


Original Peak Response = 1359508047 Manual Peak Response = 1319550556 M4
M4 = Poor automated baseline construction.

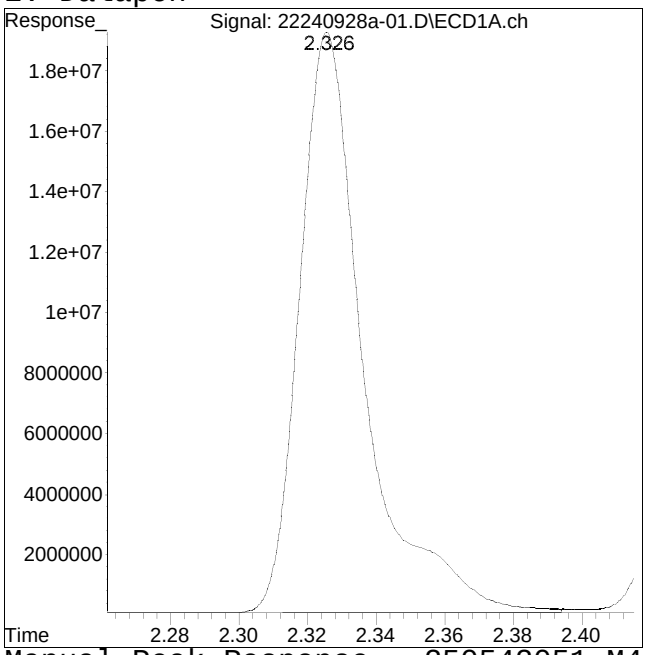
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240928QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240928a-01.D Operator : pest22:jag
Date Inj'd : 9/28/2024 10:27 Instrument : Pest22
Sample : wg1977565-1,42,,herb11705 Quant Date : 9/28/2024 10:49 am

Compound #2: Dalapon



Original Peak Response = 257089593

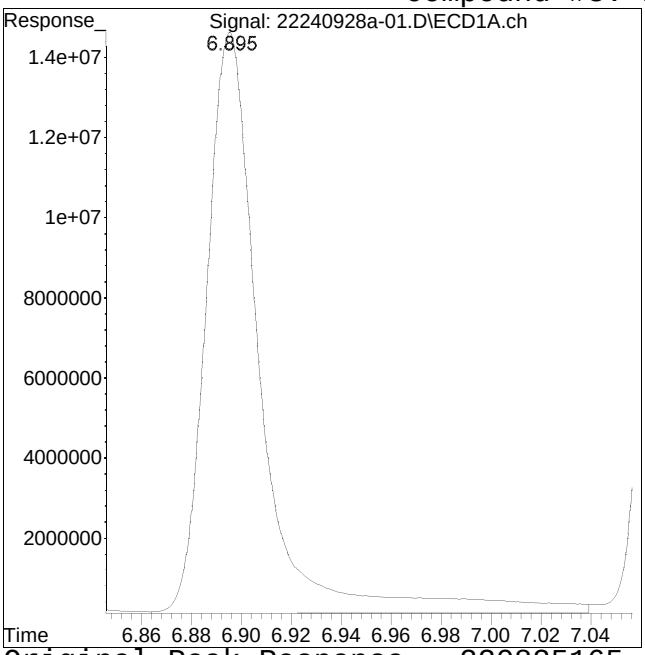


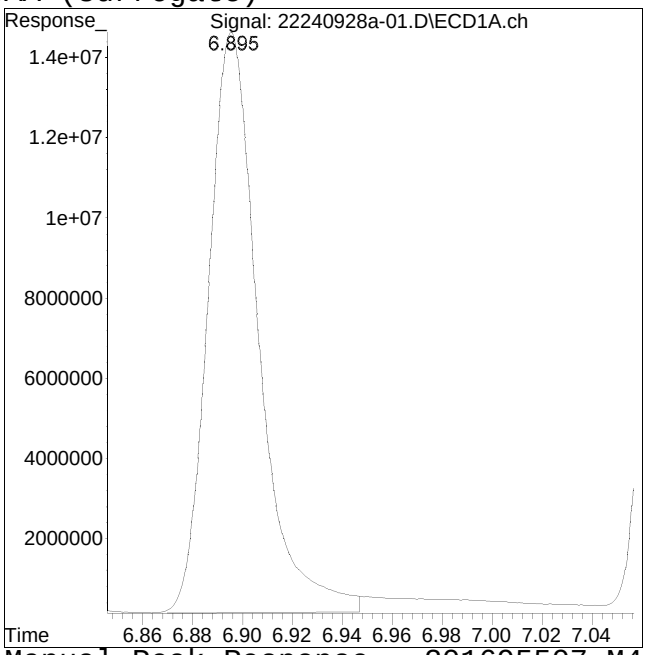
Manual Peak Response = 250542051 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240928QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240928a-01.D Operator : pest22:jag
Date Inj'd : 9/28/2024 10:27 Instrument : Pest22
Sample : wg1977565-1,42,,herb11705 Quant Date : 9/28/2024 10:49 am

Compound #3: DCAA (surrogate)



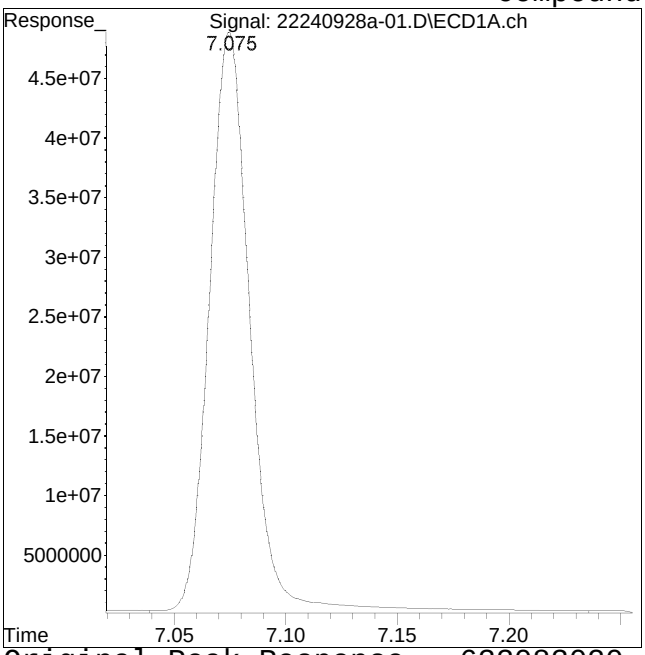


Original Peak Response = 220825165 Manual Peak Response = 201695507 M4
M4 = Poor automated baseline construction.

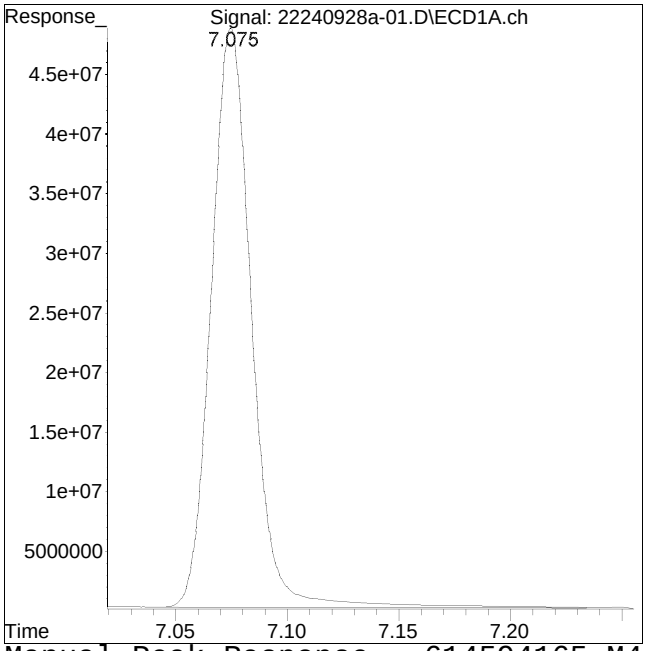
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240928QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240928a-01.D Operator : pest22:jag
Date Inj'd : 9/28/2024 10:27 Instrument : Pest22
Sample : wg1977565-1,42,,herb11705 Quant Date : 9/28/2024 10:49 am

Compound #4: Dicamba



Original Peak Response = 633083020



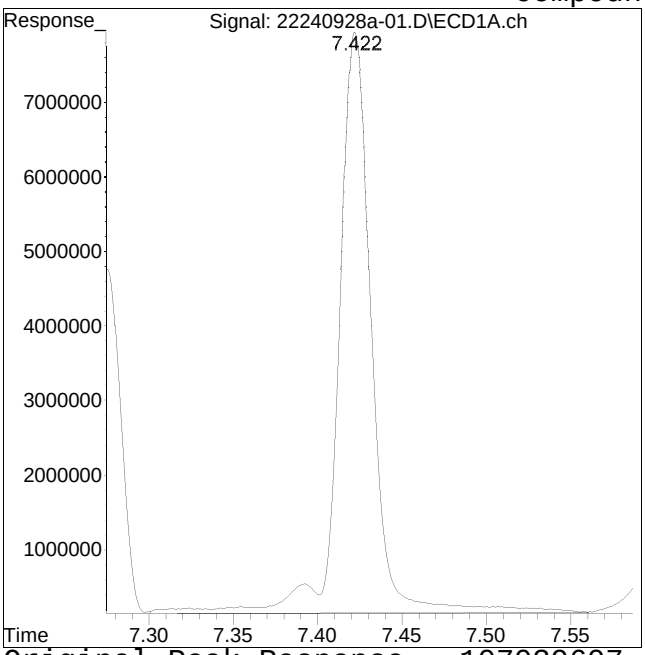
Manual Peak Response = 614594165 M4

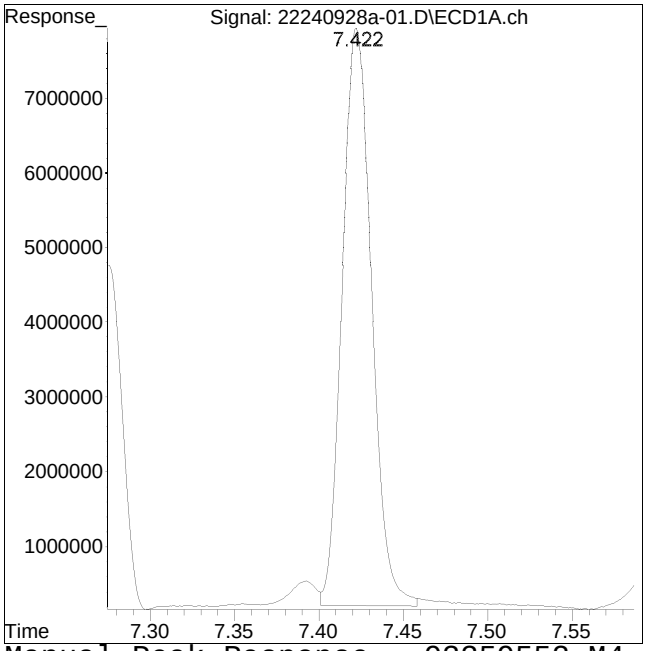
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240928QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240928a-01.D Operator : pest22:jag
Date Inj'd : 9/28/2024 10:27 Instrument : Pest22
Sample : wg1977565-1,42,,herb11705 Quant Date : 9/28/2024 10:49 am

Compound #6: MCPA



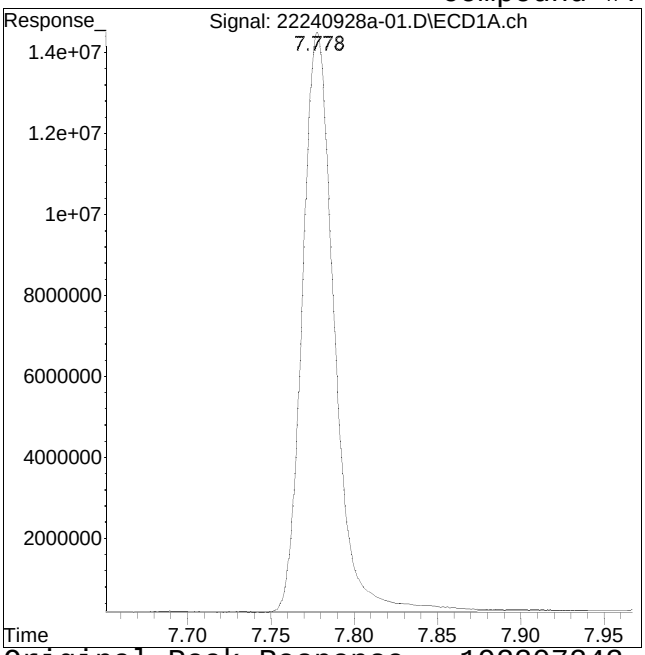


Original Peak Response = 107039607 Manual Peak Response = 93359552 M4
M4 = Poor automated baseline construction.

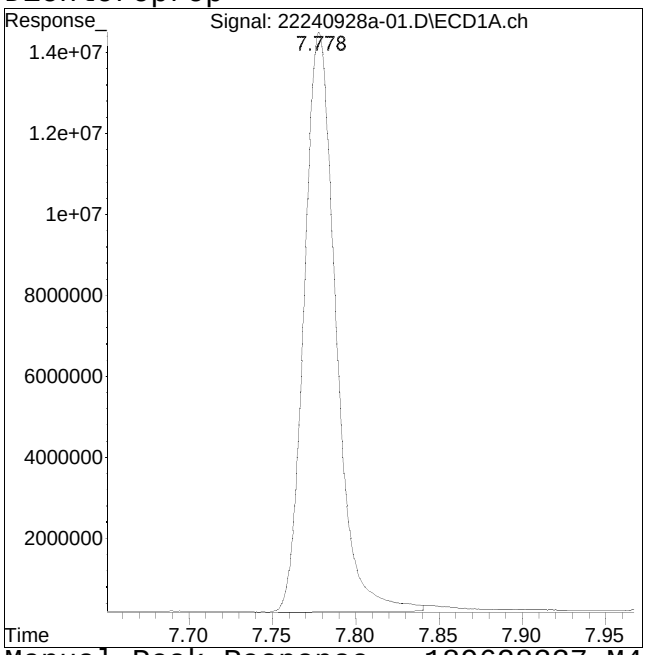
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240928QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240928a-01.D Operator : pest22:jag
Date Inj'd : 9/28/2024 10:27 Instrument : Pest22
Sample : wg1977565-1,42,,herb11705 Quant Date : 9/28/2024 10:49 am

Compound #7: Dichloroprop



Original Peak Response = 192307243

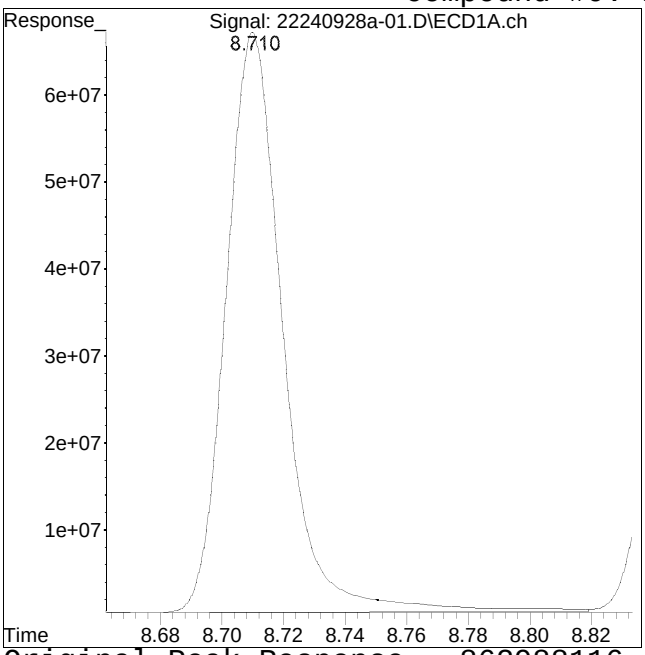


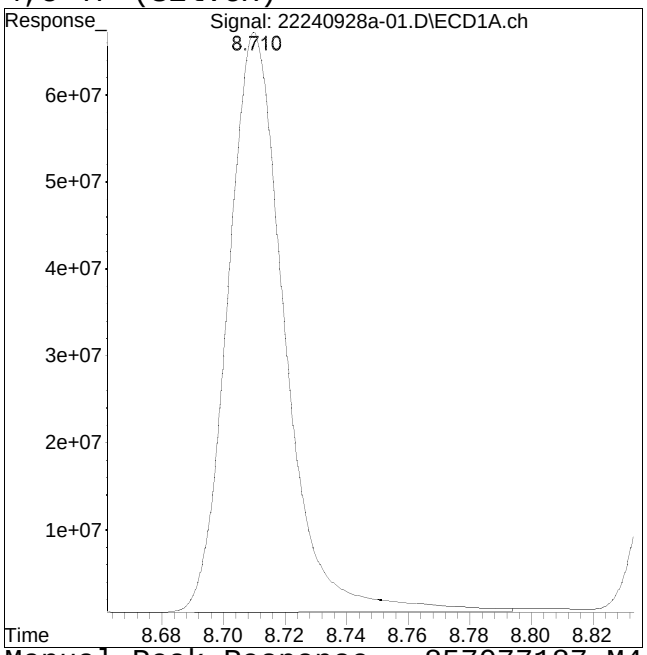
Manual Peak Response = 189628337 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240928QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240928a-01.D Operator : pest22:jag
Date Inj'd : 9/28/2024 10:27 Instrument : Pest22
Sample : wg1977565-1,42,,herb11705 Quant Date : 9/28/2024 10:49 am

Compound #9: 2,4,5-TP (Silvex)



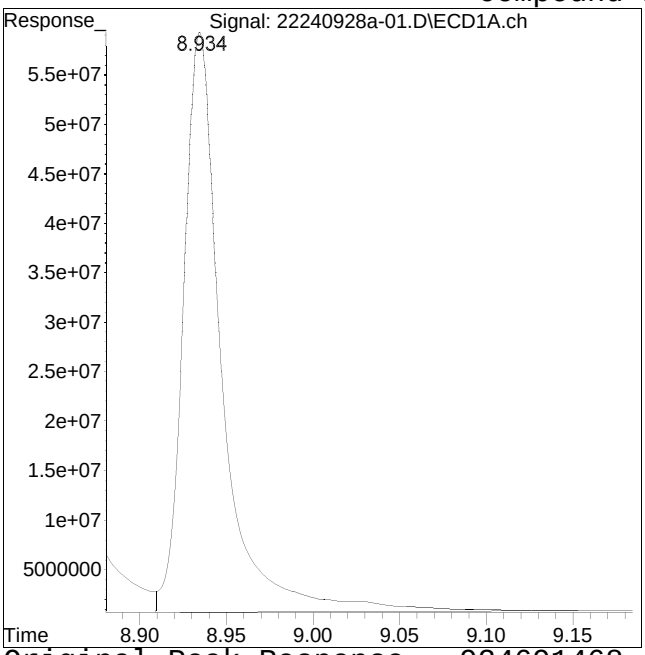


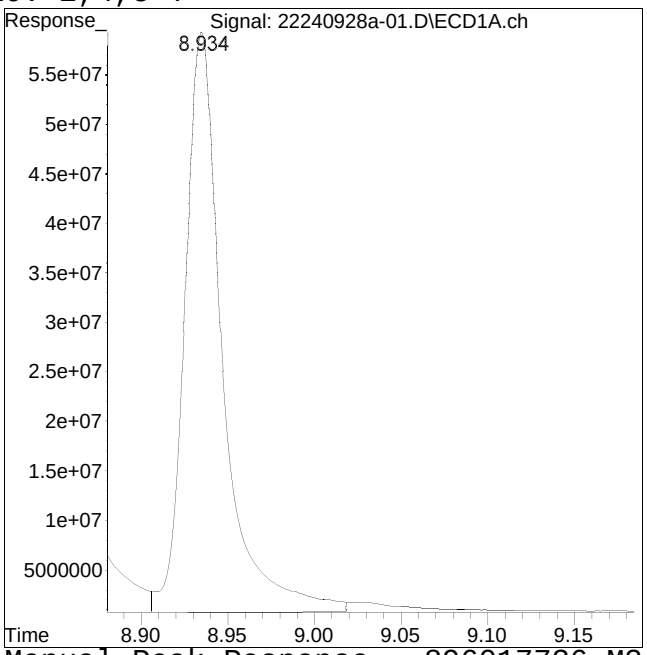
Original Peak Response = 862988116 Manual Peak Response = 857077187 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240928QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240928a-01.D Operator : pest22:jag
Date Inj'd : 9/28/2024 10:27 Instrument : Pest22
Sample : wg1977565-1,42,,herb11705 Quant Date : 9/28/2024 10:49 am

Compound #10: 2,4,5-T



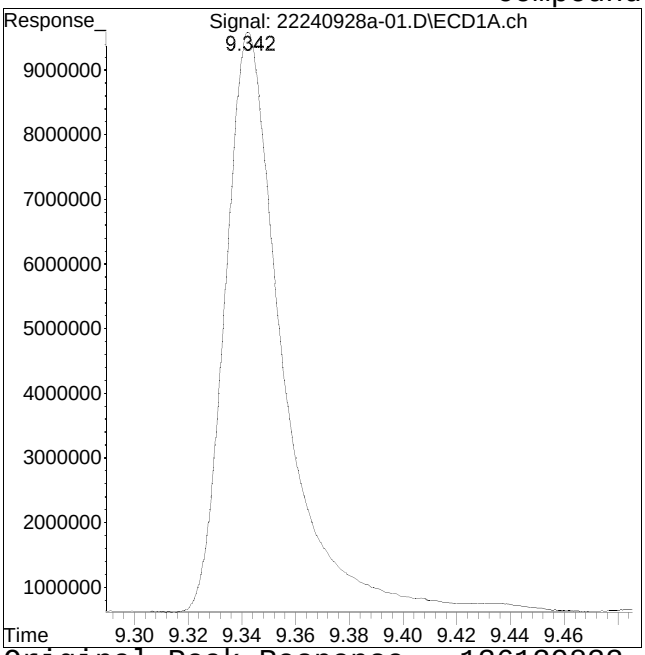


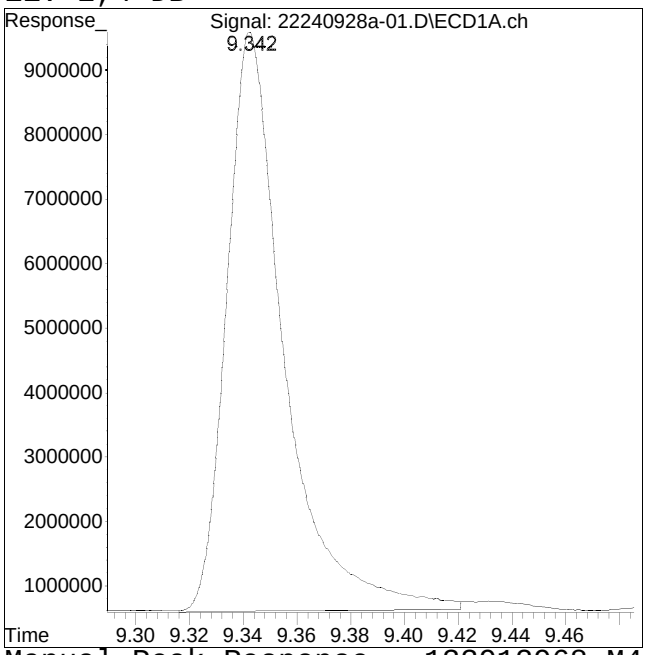
Original Peak Response = 924691468 Manual Peak Response = 896017736 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240928QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240928a-01.D Operator : pest22:jag
Date Inj'd : 9/28/2024 10:27 Instrument : Pest22
Sample : wg1977565-1,42,,herb11705 Quant Date : 9/28/2024 10:49 am

Compound #11: 2,4-DB



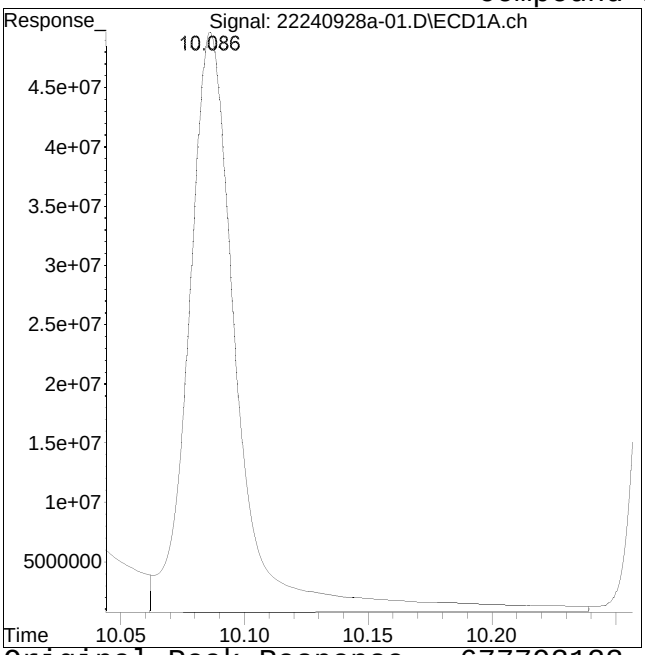


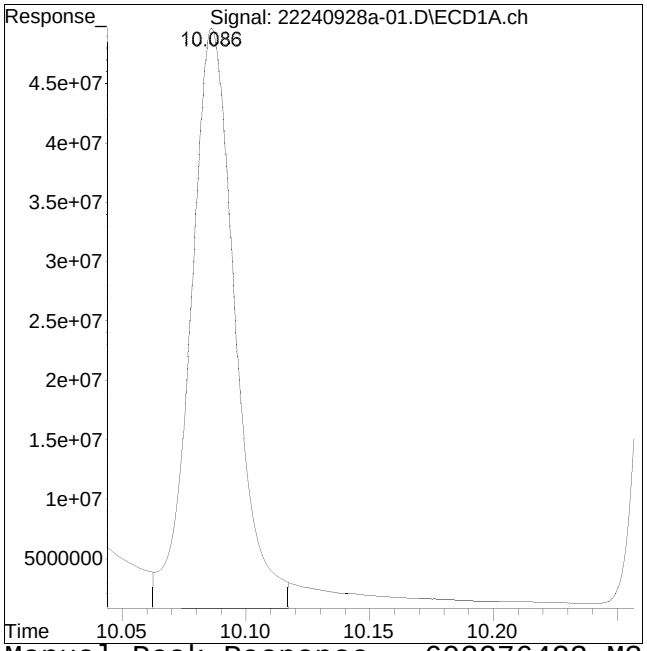
Original Peak Response = 136139833 Manual Peak Response = 133912968 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240928QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240928a-01.D Operator : pest22:jag
Date Inj'd : 9/28/2024 10:27 Instrument : Pest22
Sample : wg1977565-1,42,,herb11705 Quant Date : 9/28/2024 10:49 am

Compound #12: Dinoseb



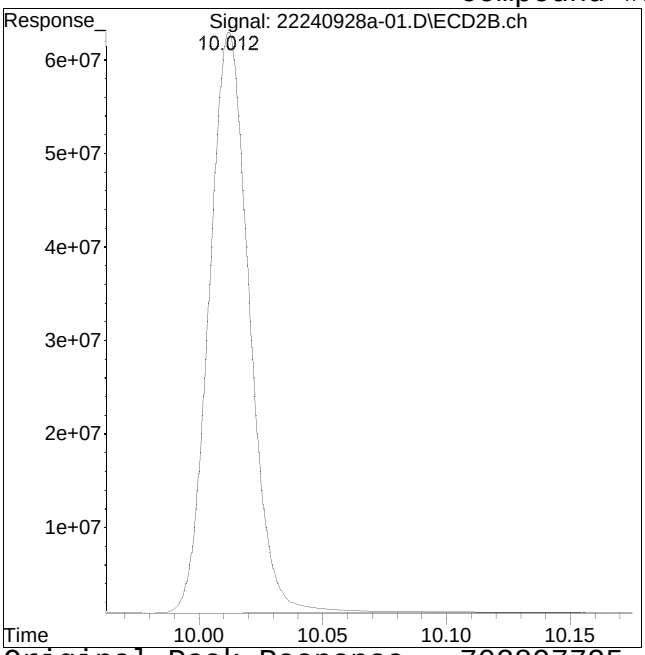


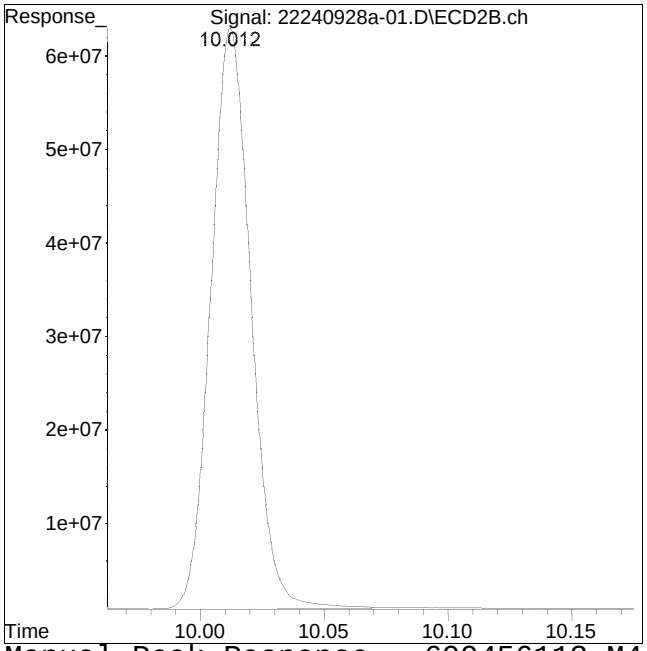
Original Peak Response = 677793123 Manual Peak Response = 603276433 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240928QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240928a-01.D Operator : pest22:jag
Date Inj'd : 9/28/2024 10:27 Instrument : Pest22
Sample : wg1977565-1,42,,herb11705 Quant Date : 9/28/2024 10:49 am

Compound #25: Dinoseb #2





Original Peak Response = 702897725 Manual Peak Response = 699456113 M4
M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Herbicides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-100.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 14:37
Operator : pest22:jag
Sample : WG1976959-1,42,, 959 (Sig #1); WG1976958-1,42,, 959 (Sig #2)
Misc : wg1976540,WG1976959,ical21511
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:57:13 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240926a\22240926a-94.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.439	8.436	1387.5E6	1795.6E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1370047604				Recovery = 101.28%		
	Standard Area 1 : #2 = 1745872396				Recovery = 102.85%		
System Monitoring Compounds							
3) s	DCAA (surrog	6.895	7.363	434.9E6	536.0E6	0.426M4	0.394M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	85.20%	78.80%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

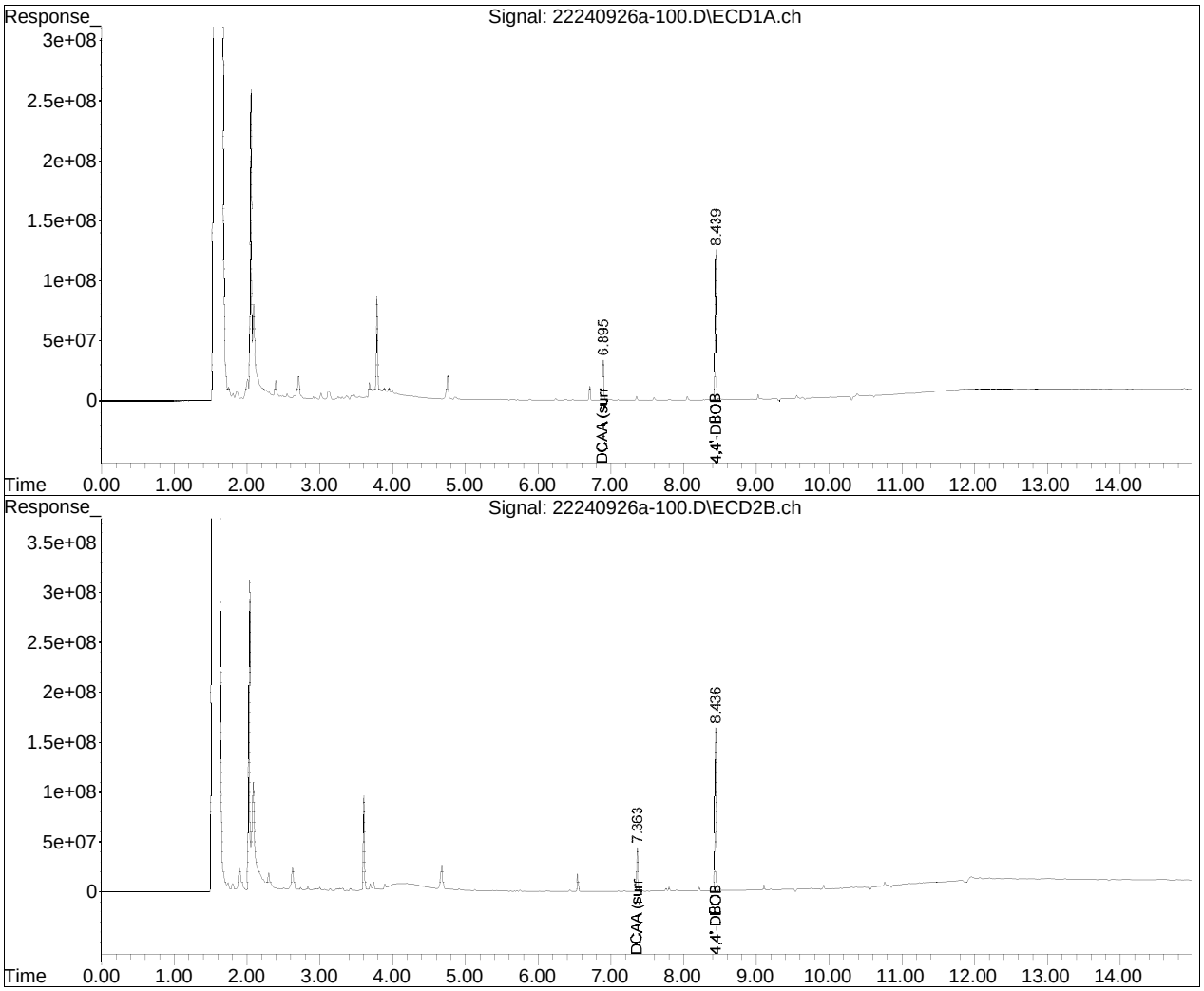
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240926a-94.D•

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-100.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 14:37
Operator : pest22:jag
Sample : WG1976959-1,42,, 959 (Sig #1); WG1976958-1,42,, 959 (Sig #2)
Misc : wg1976540,WG1976959,ical21511
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:57:13 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

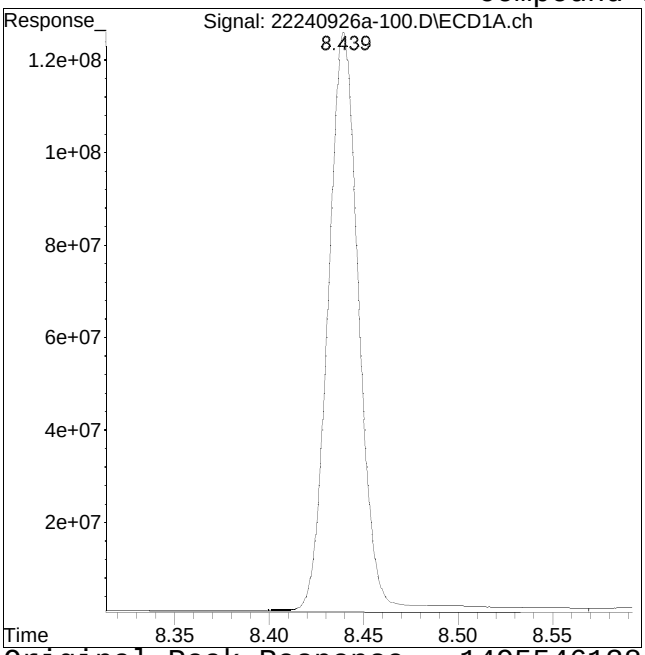
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

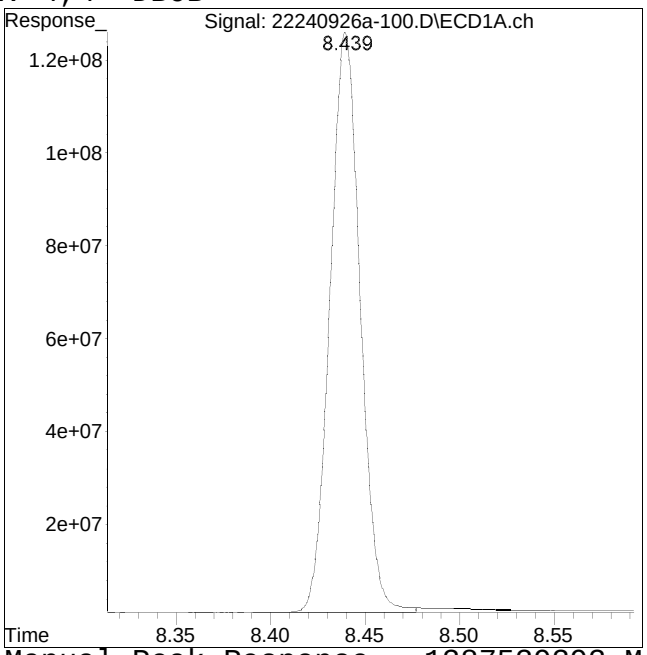


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-100.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:37 Instrument : Pest22
Sample : WG1976959-1,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #1: 4,4'-DBOB



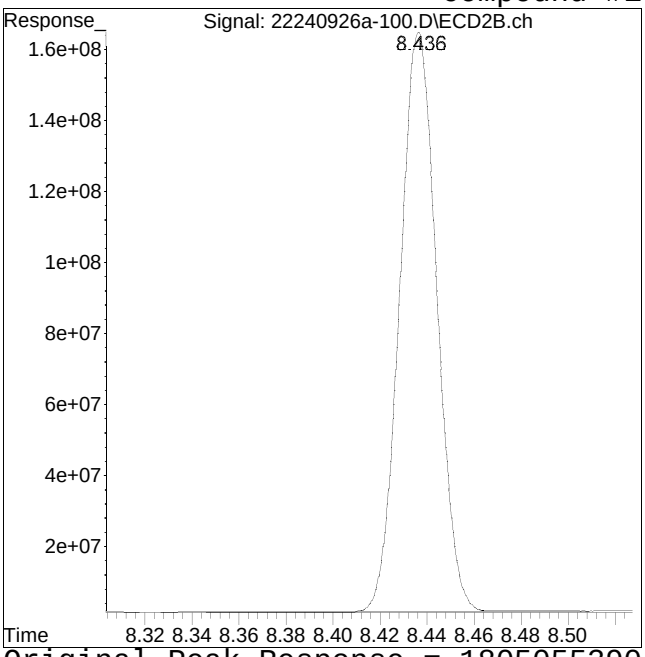


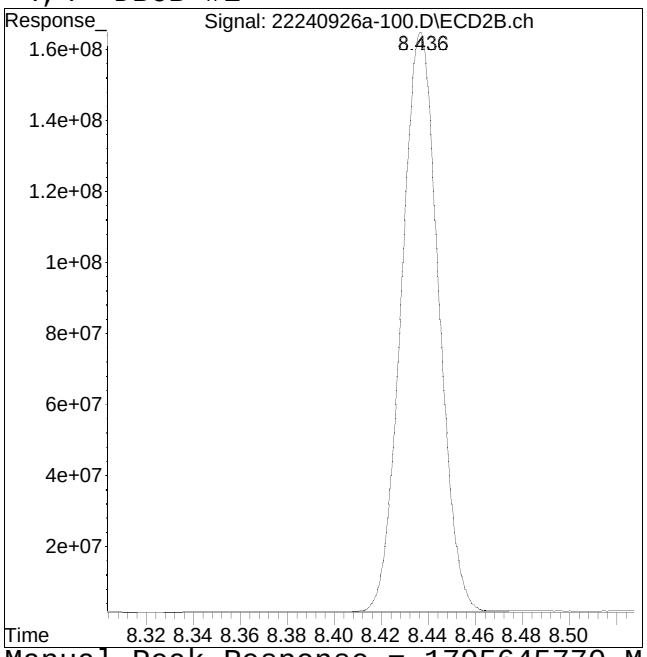
Original Peak Response = 1495546138 Manual Peak Response = 1387539393 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-100.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:37 Instrument : Pest22
Sample : WG1976959-1,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #14: 4,4'-DBOB #2



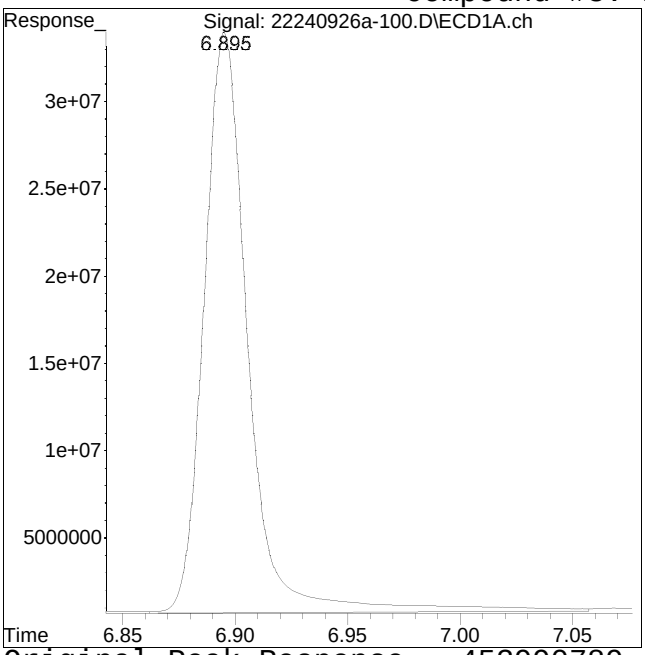


Original Peak Response = 1805055390 Manual Peak Response = 1795645770 M4
M4 = Poor automated baseline construction.

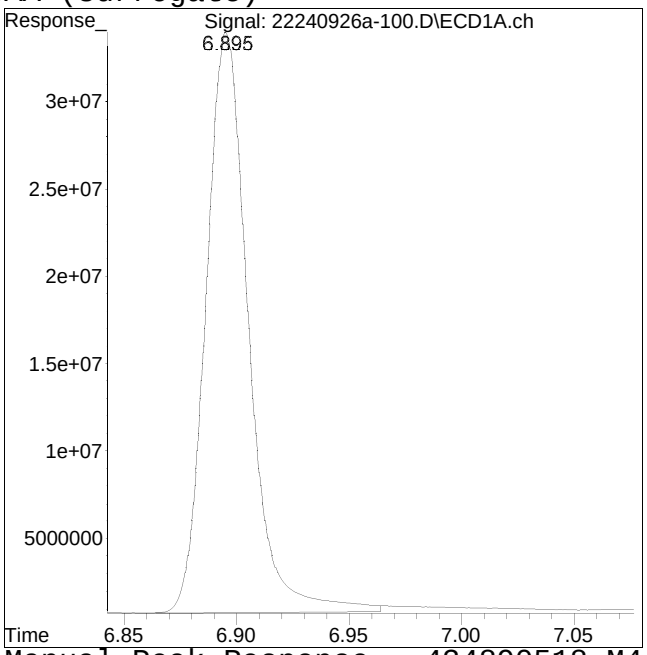
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-100.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:37 Instrument : Pest22
Sample : WG1976959-1,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 453990789



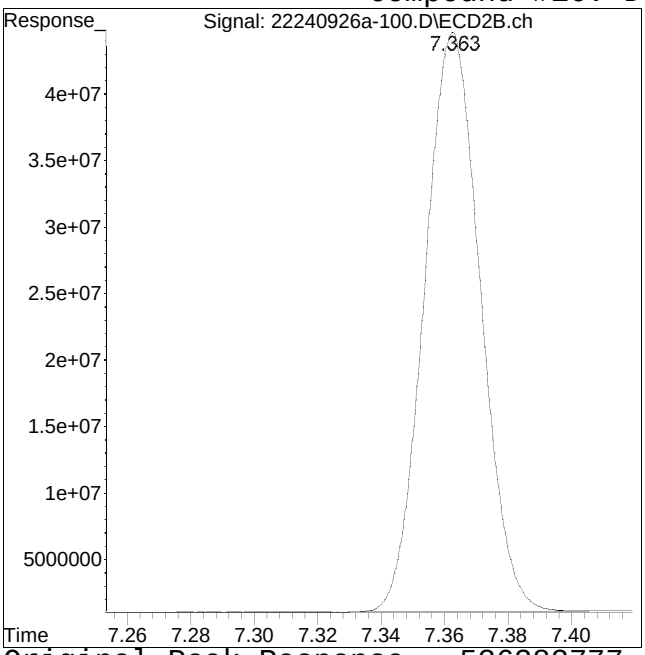
Manual Peak Response = 434890518 M4

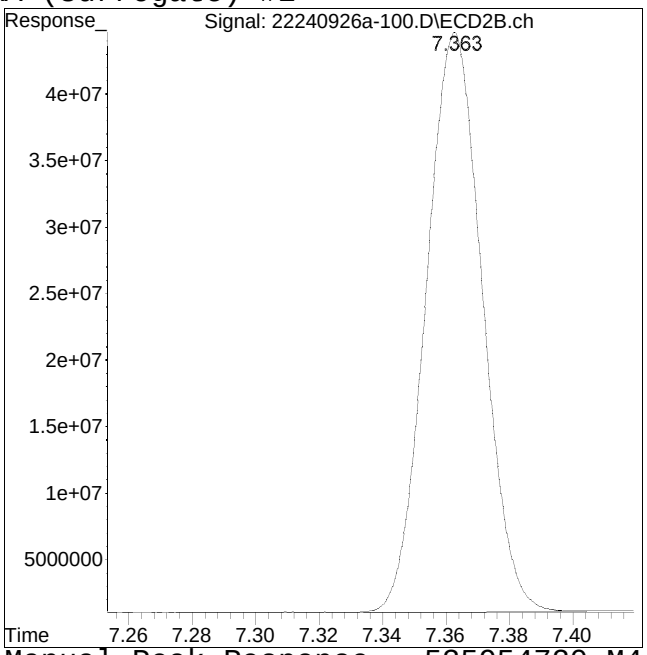
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-100.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:37 Instrument : Pest22
Sample : WG1976959-1,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 536382777 Manual Peak Response = 535954720 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-101.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 14:56
Operator : pest22:jag
Sample : WG1976959-2,42,, 959 (Sig #1); WG1976958-2,42,, 959 (Sig #2)
Misc : wg1976540,WG1976959,ical21511
ALS Vial : 101 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:57:14 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240926a\22240926a-94.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.436	8.436	1436.1E6	1813.1E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1370047604				Recovery = 104.82%		
	Standard Area 1 : #2 = 1745872396				Recovery = 103.85%		
System Monitoring Compounds							
3) s	DCAA (surrog	6.891	7.362	454.1E6	630.9E6	0.429M4	0.459M4
	Spiked Amount 0.500	Range 30 - 150		Recovery =	85.80%	91.80%	
Target Compounds							
2) t	Dalapon	2.330	2.324	459.8E6	608.4E6	0.343M4	0.416M4
4) t	Dicamba	7.073	7.542	1485.5E6	1726.5E6	0.456M4	0.446M4
5) t	MCPP	7.276	7.656	152.6E6	194.1E6	54.922M4	50.966M4
6) t	MCPA	7.422	7.882	237.4E6	320.3E6	47.499M4	46.338M4
7) t	Dichloroprop	7.776	8.200	443.1E6	559.9E6	0.441M4	0.447M4
8) t	2,4-D	7.988	8.476	540.7E6	740.3E6	0.442M4	0.460M4
9) t	2,4,5-TP (Si	8.707	9.136	1930.3E6	2343.0E6	0.435M4	0.417M4
10) t	2,4,5-T	8.927	9.426	2070.4E6	2493.1E6	0.455M4	0.448M4
11) t	2,4-DB	9.335	9.788	324.0E6	400.8E6	0.486M4	0.439M4
12) t	Dinoseb	10.085	10.011	1180.9E6	1405.7E6	0.348M3	0.396M4
SemiQuant Compounds - Not Calibrated on this Instrument							

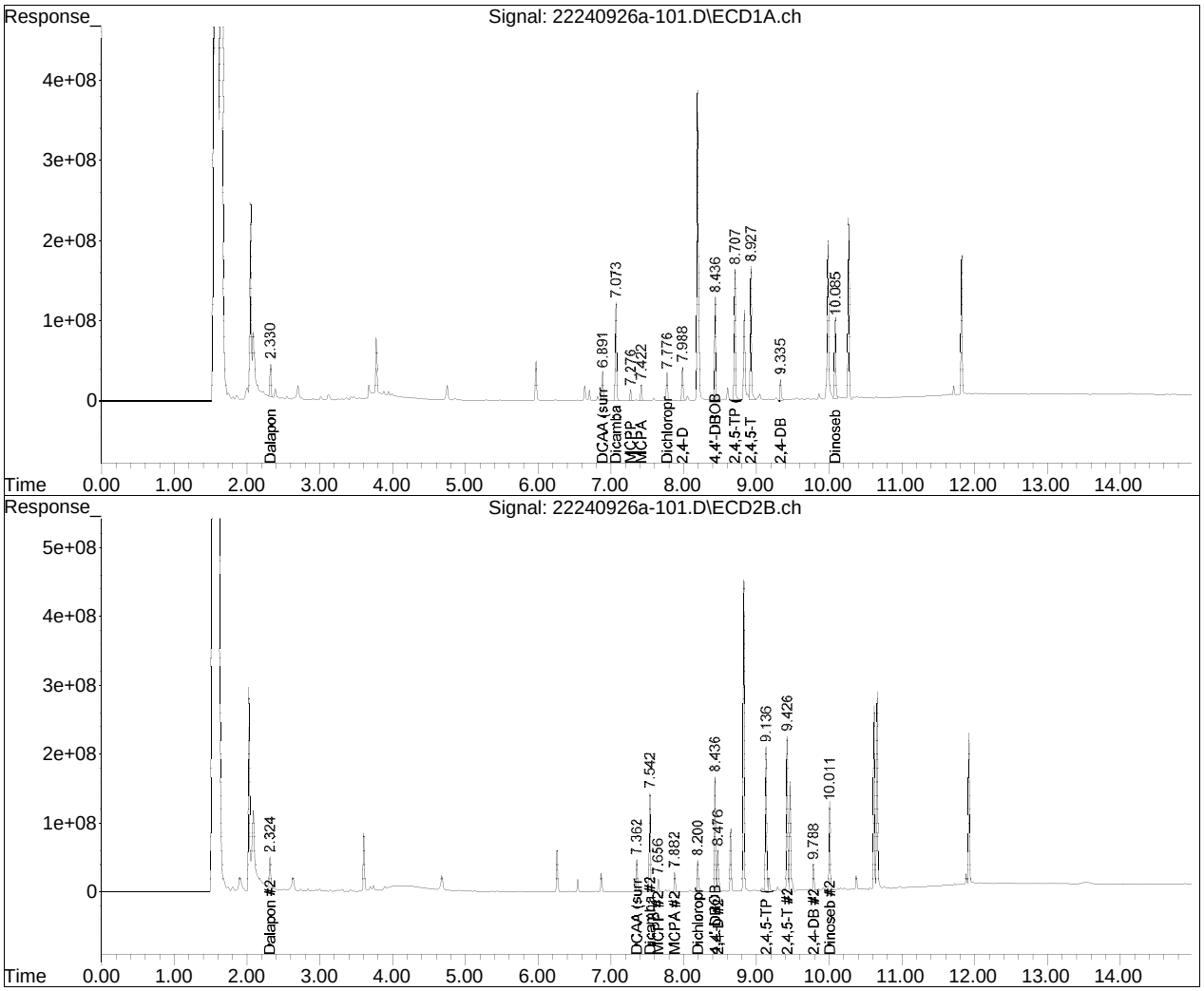
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240926a-94.D•

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-101.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 14:56
Operator : pest22:jag
Sample : WG1976959-2,42,, 959 (Sig #1); WG1976958-2,42,, 959 (Sig #2)
Misc : wg1976540,WG1976959,ical21511
ALS Vial : 101 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:57:14 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

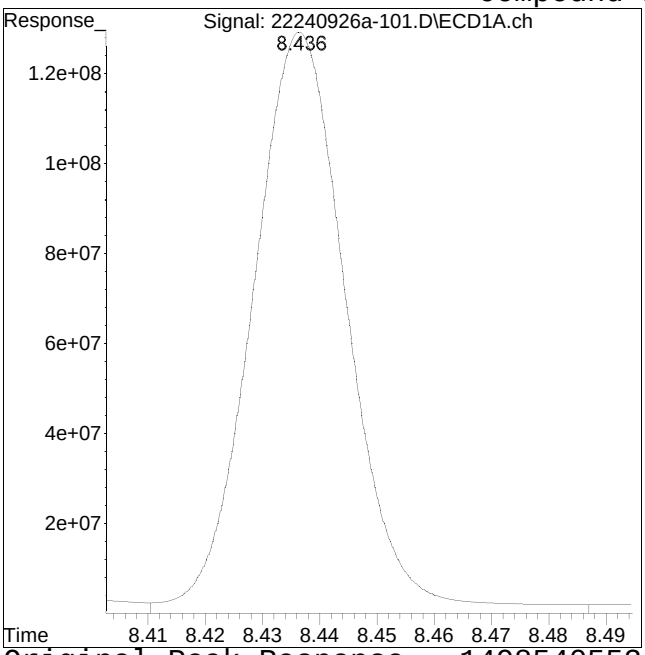
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

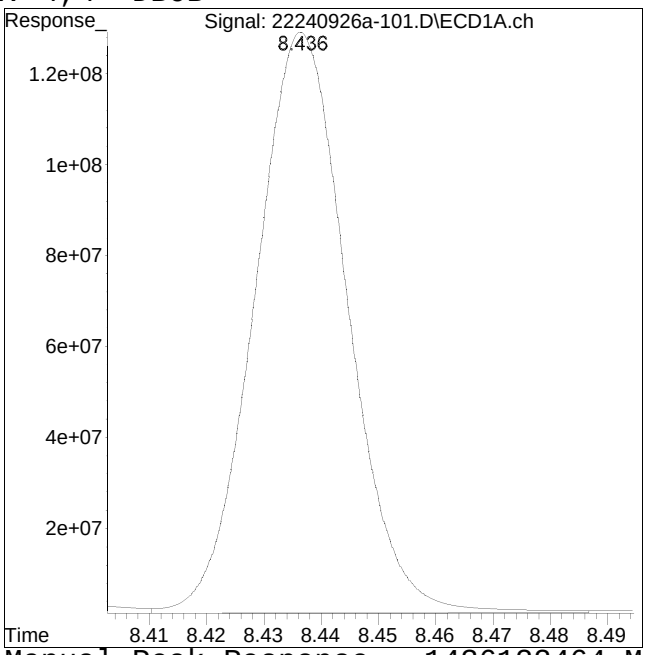


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #1: 4,4'-DBOB



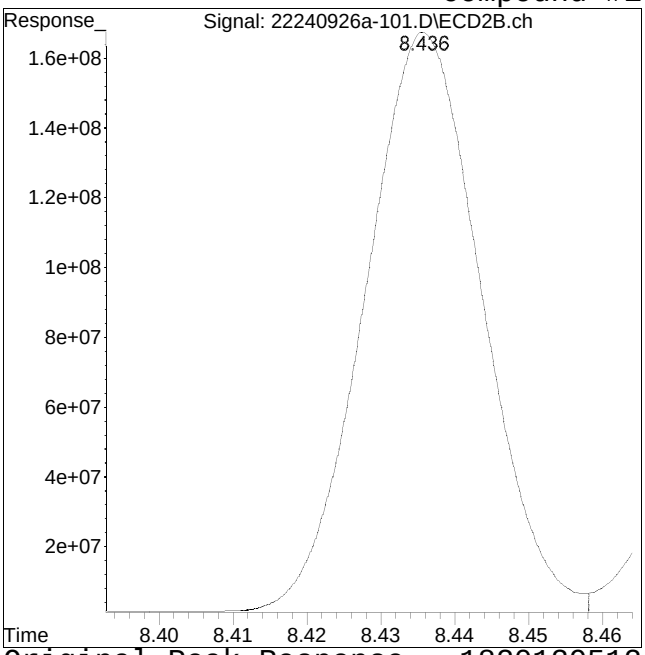


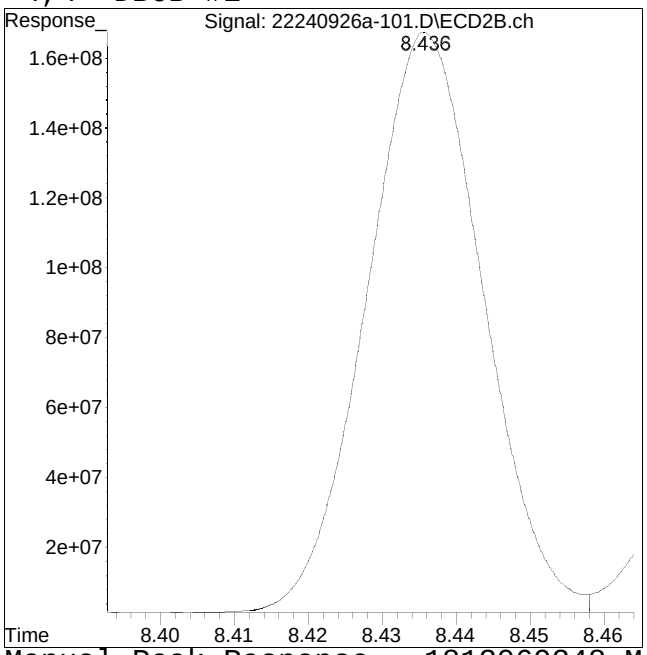
Original Peak Response = 1498540553 Manual Peak Response = 1436122464 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #14: 4,4'-DBOB #2



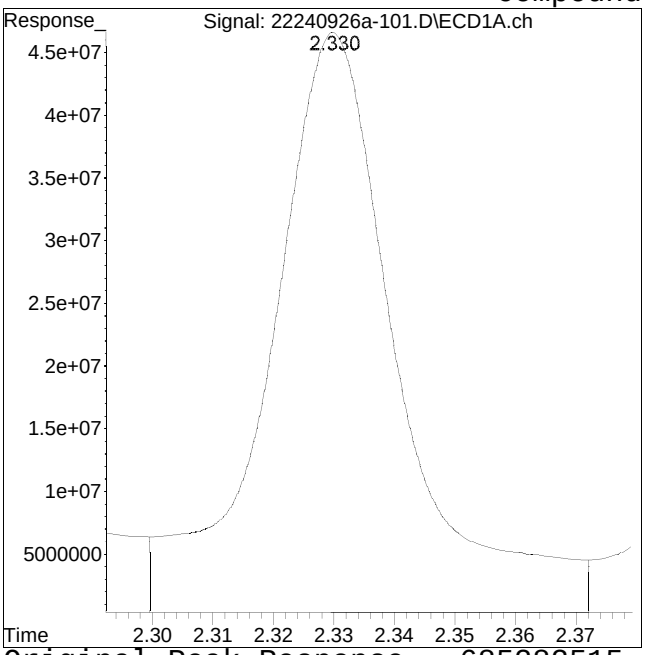


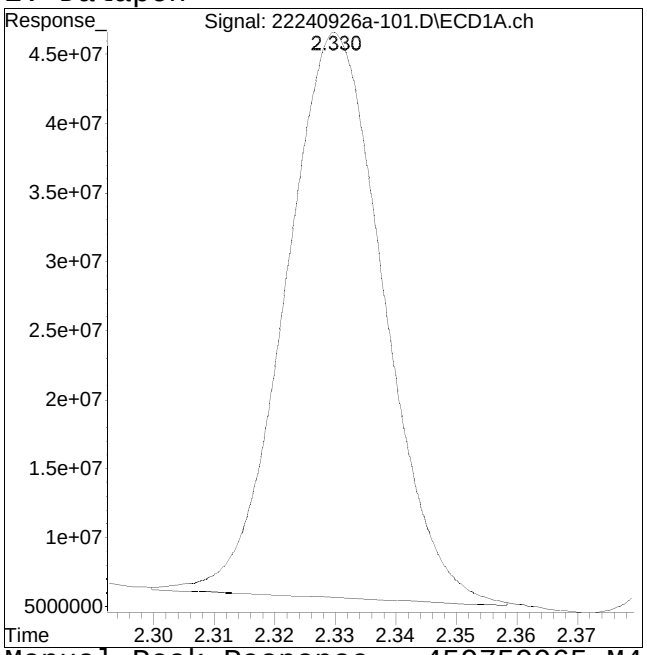
Original Peak Response = 1820129512 Manual Peak Response = 1813069248 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #2: Dalapon



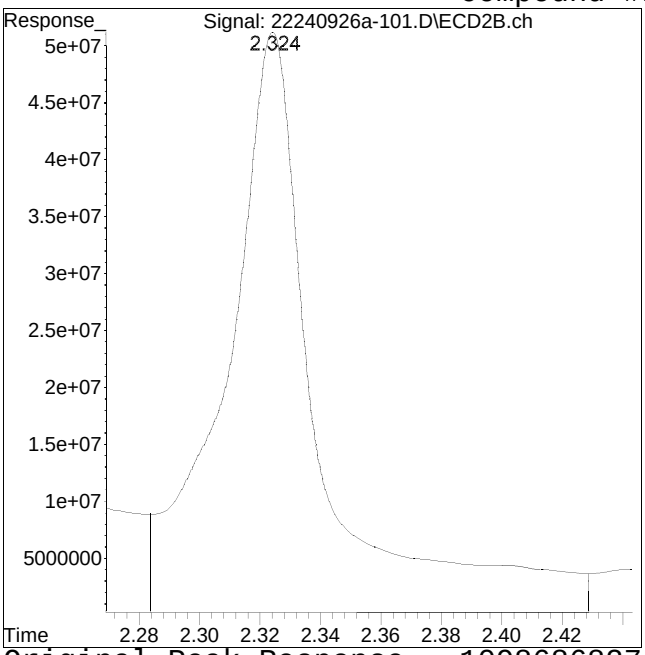


Original Peak Response = 685282515 Manual Peak Response = 459759965 M4
M4 = Poor automated baseline construction.

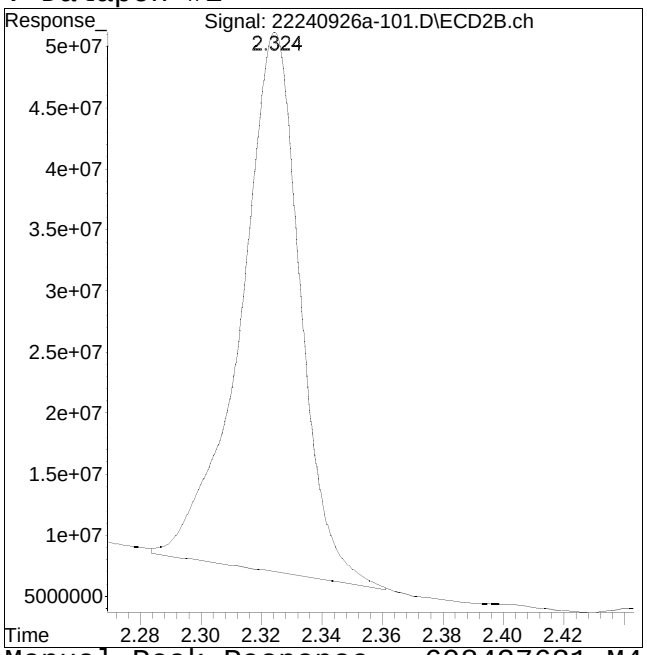
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #15: Dalapon #2



Original Peak Response = 1098686827



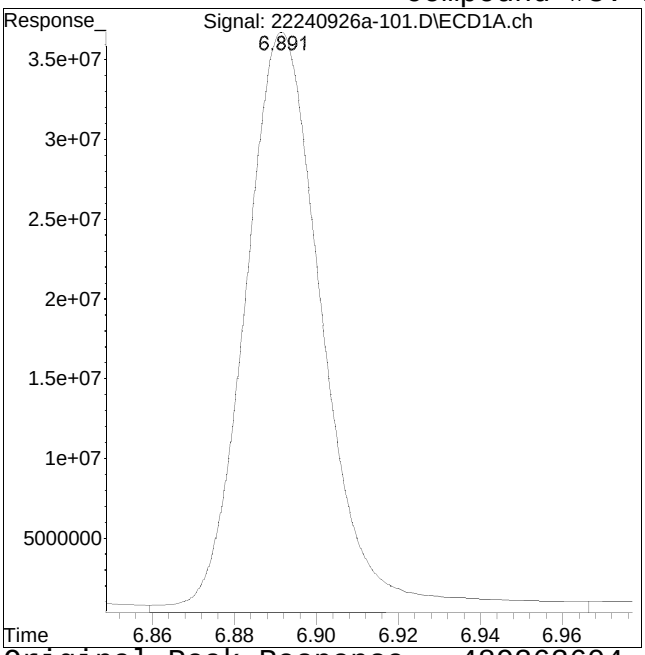
Manual Peak Response = 608437631 M4

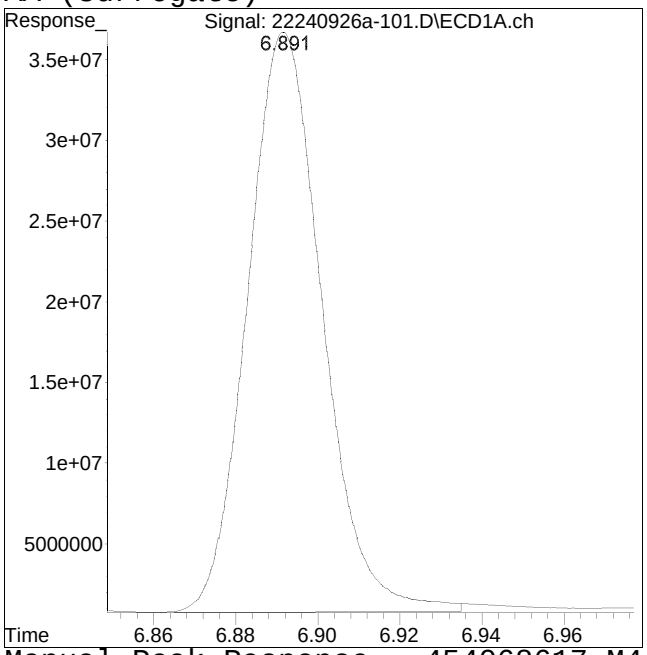
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #3: DCAA (surrogate)



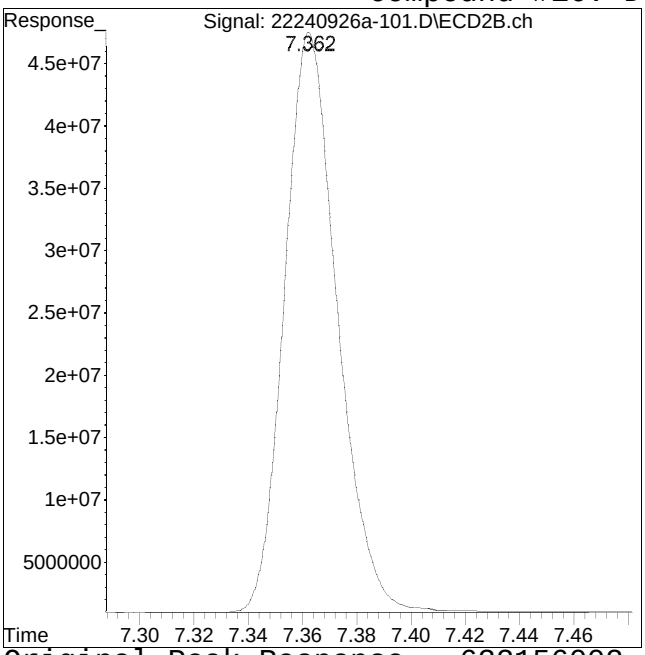


Original Peak Response = 489363604 Manual Peak Response = 454068617 M4
M4 = Poor automated baseline construction.

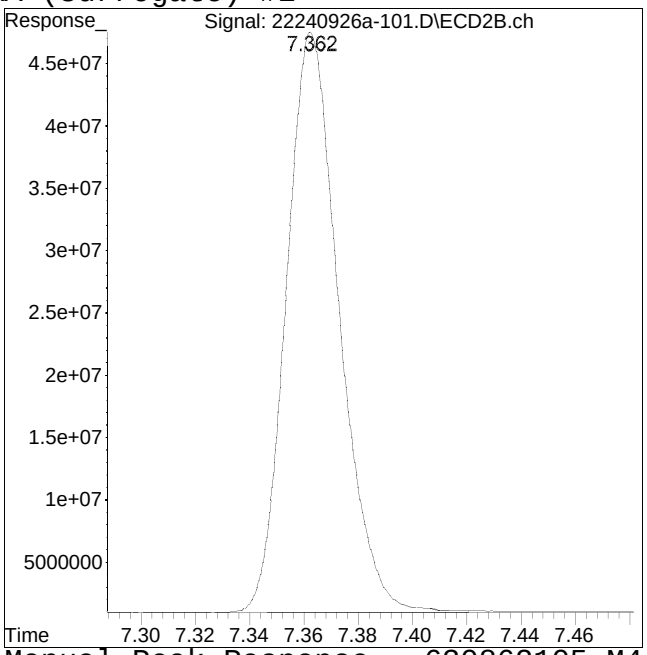
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #16: DCAA (surrogate) #2



Original Peak Response = 632156002



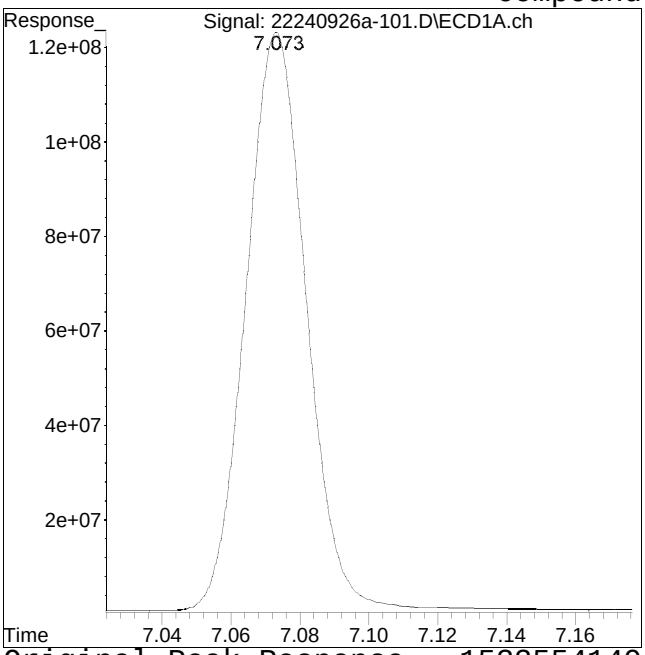
Manual Peak Response = 630862105 M4

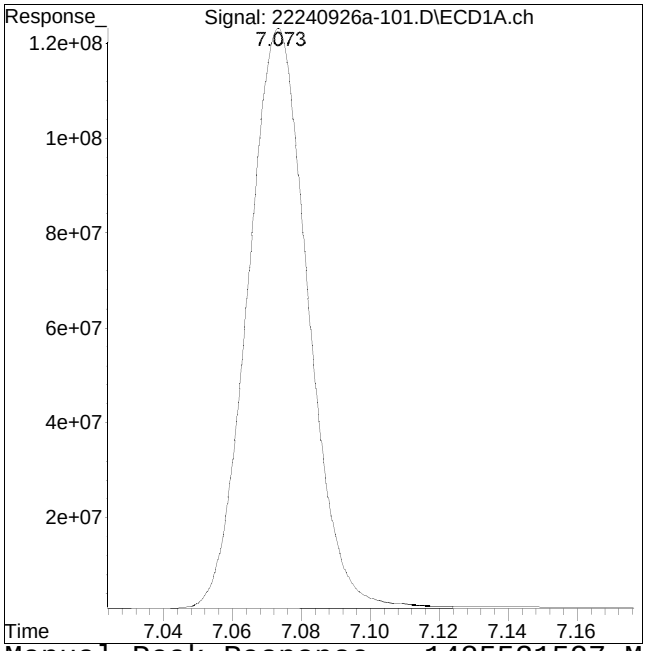
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #4: Dicamba



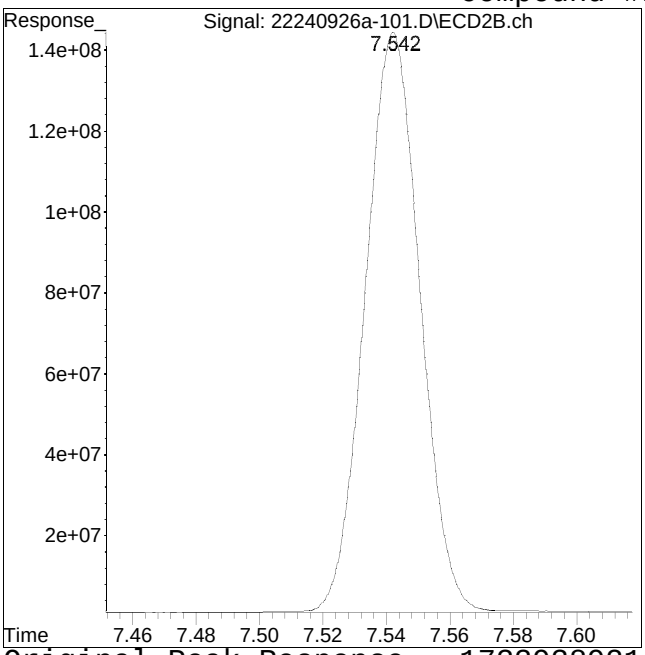


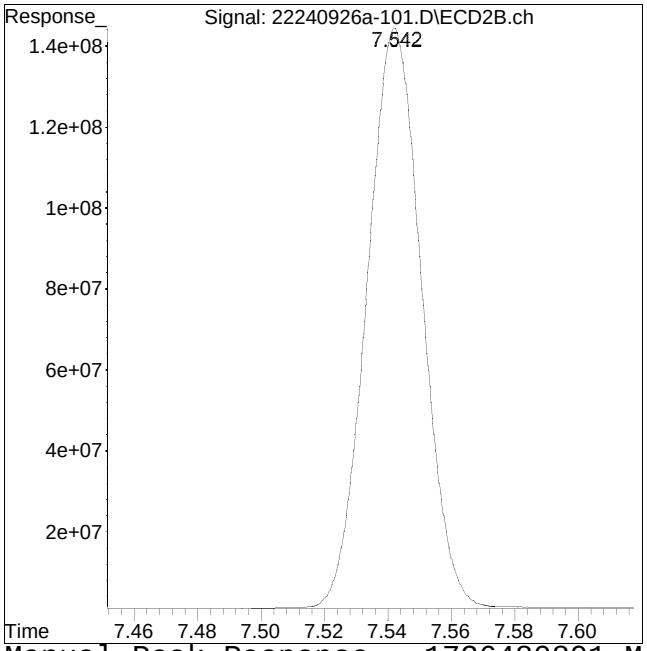
Original Peak Response = 1533554149 Manual Peak Response = 1485531527 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #17: Dicamba #2



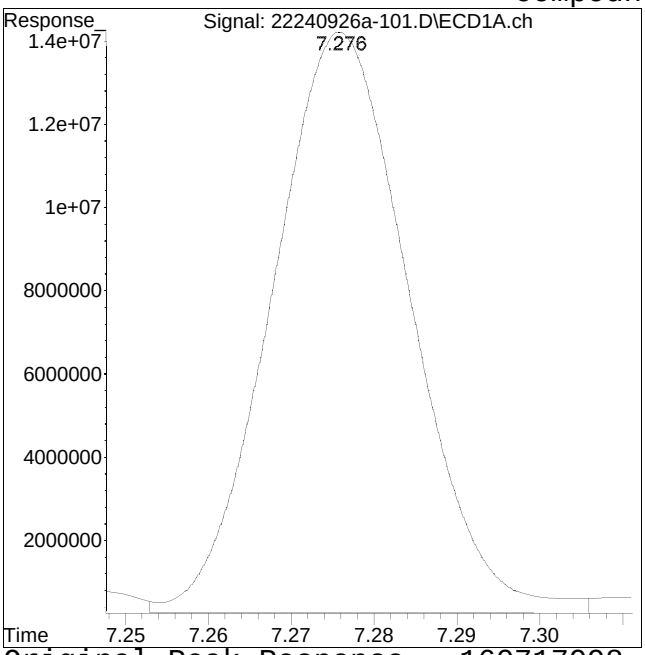


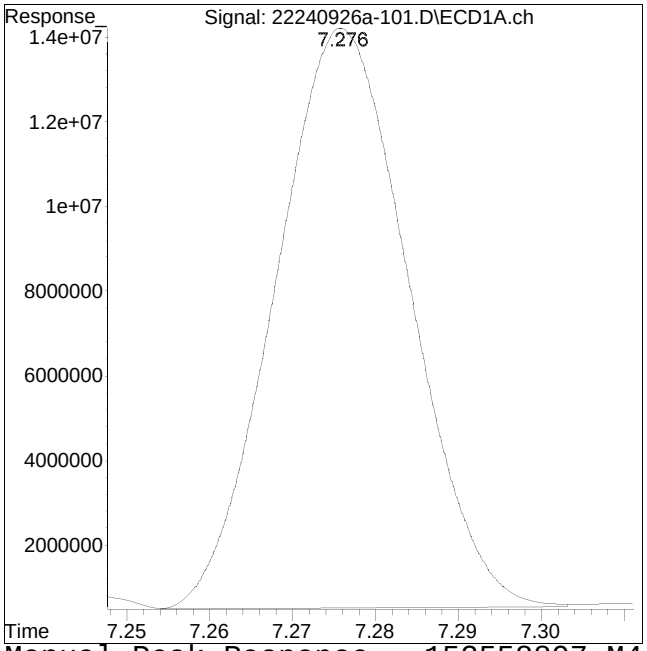
Original Peak Response = 1733938921 Manual Peak Response = 1726480801 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #5: MCPP



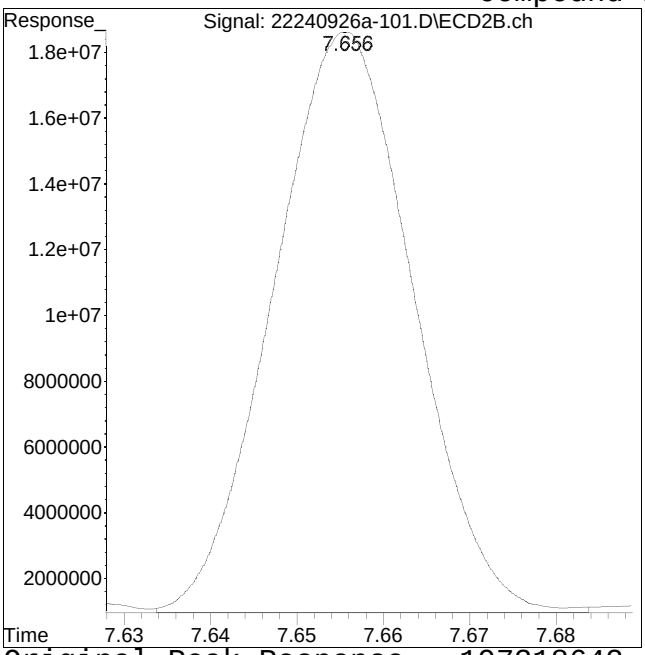


Original Peak Response = 160717998 Manual Peak Response = 152558897 M4
M4 = Poor automated baseline construction.

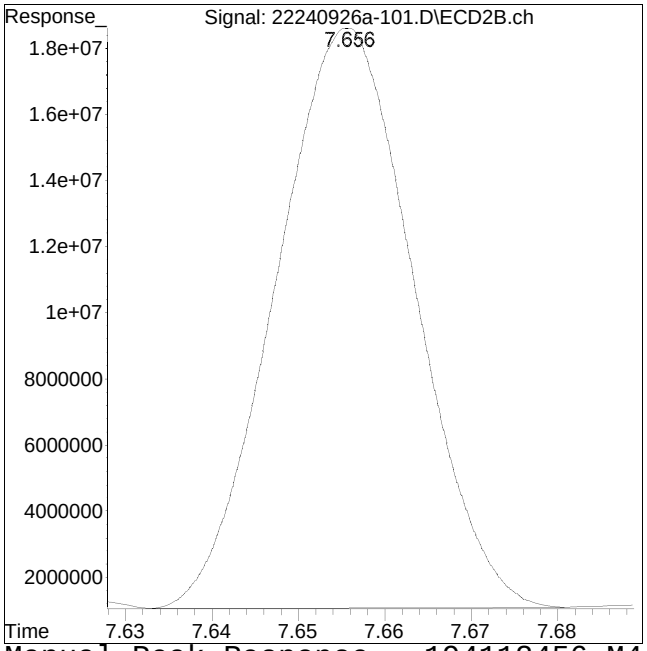
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #18: MCPP #2



Original Peak Response = 197318642



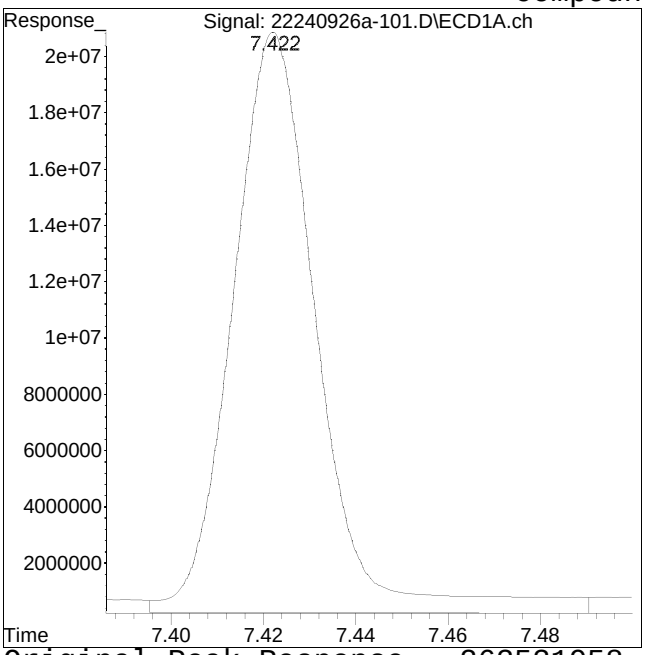
Manual Peak Response = 194112456 M4

M4 = Poor automated baseline construction.

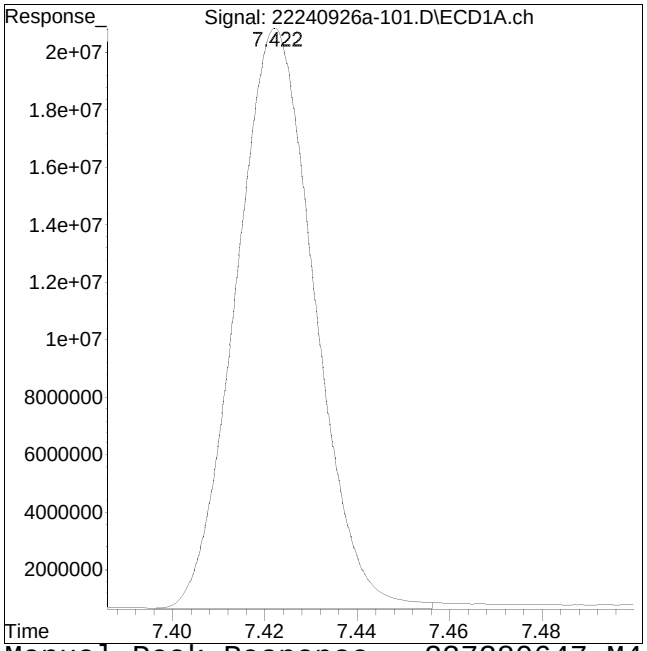
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #6: MCPA



Original Peak Response = 263531958



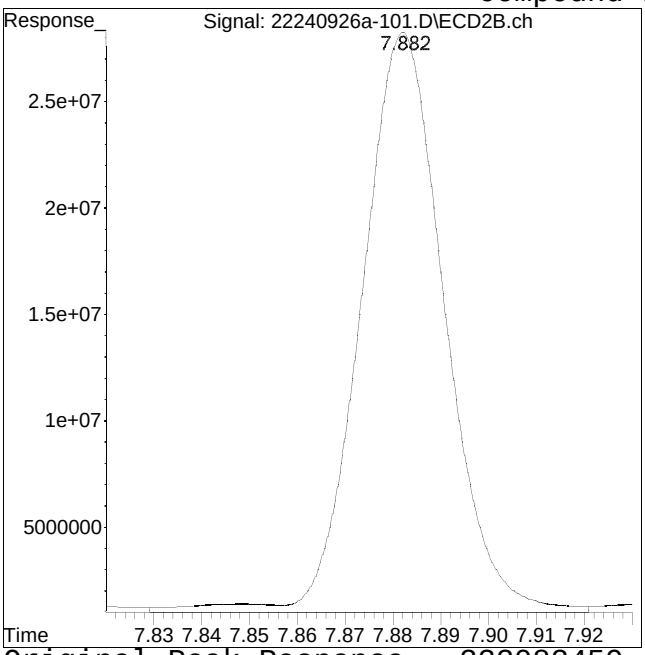
Manual Peak Response = 237380647 M4

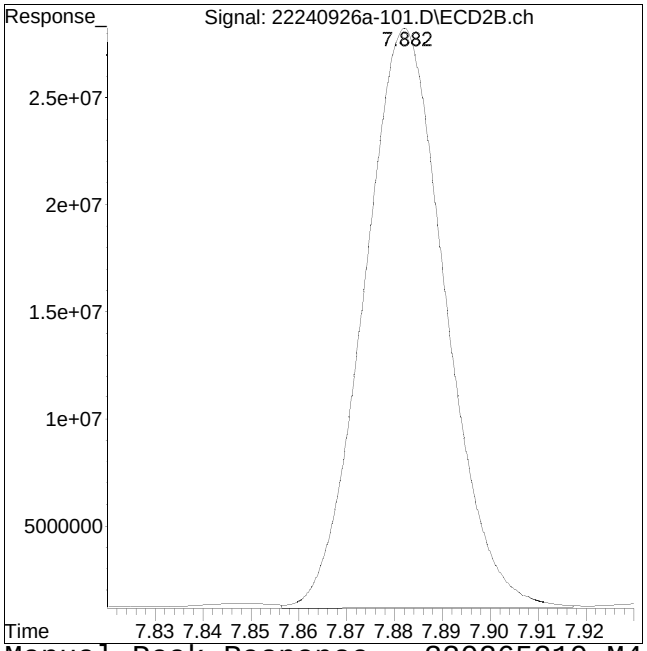
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #19: MCPA #2



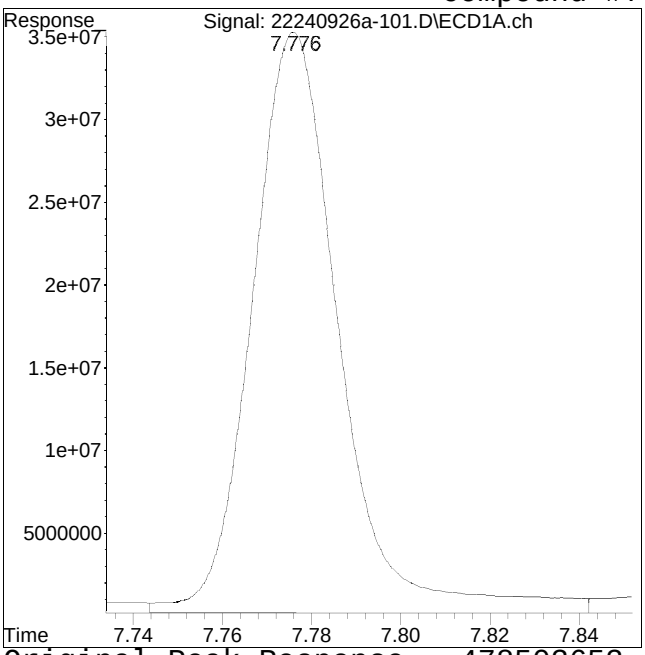


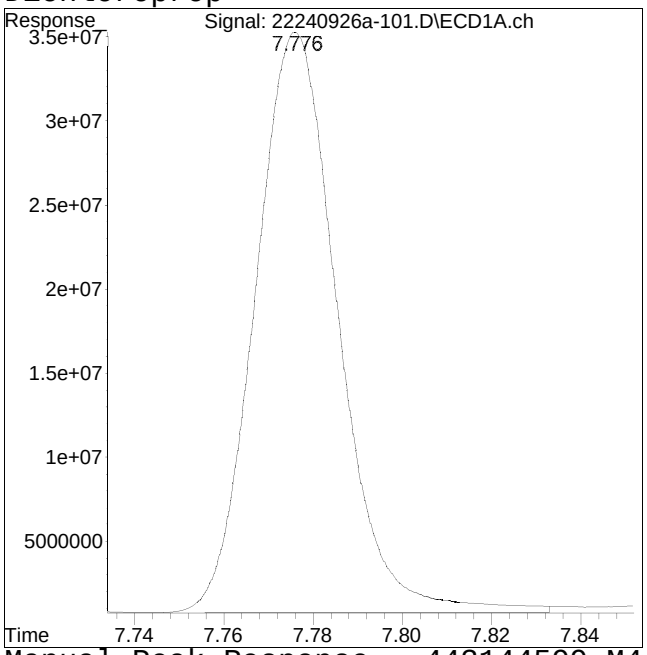
Original Peak Response = 333082459 Manual Peak Response = 320265210 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #7: Dichloroprop



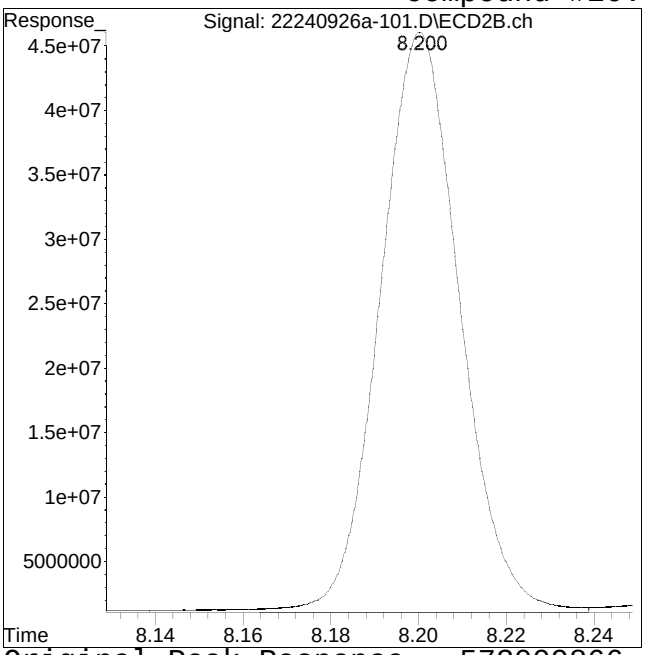


Original Peak Response = 478503653 Manual Peak Response = 443144599 M4
M4 = Poor automated baseline construction.

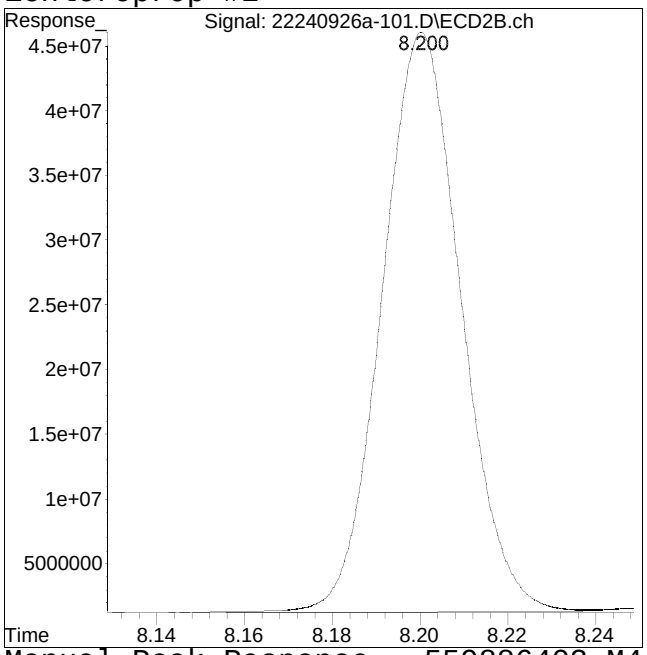
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #20: Dichloroprop #2



Original Peak Response = 573009866



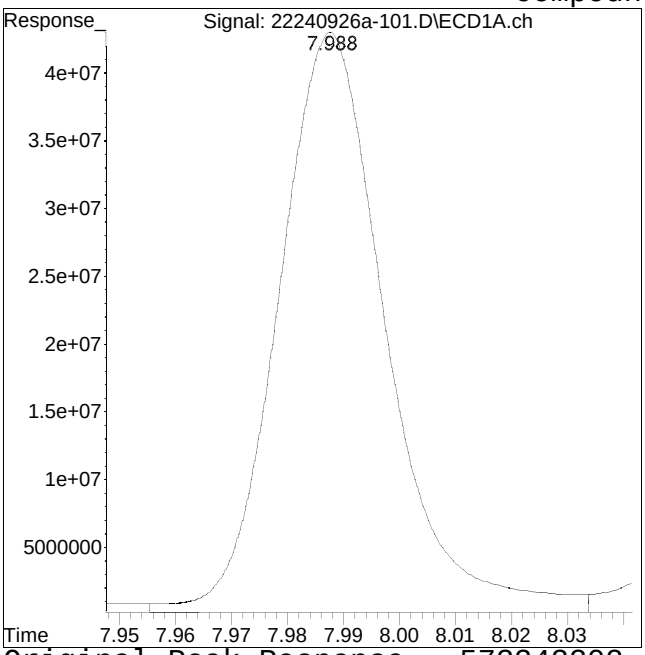
Manual Peak Response = 559886403 M4

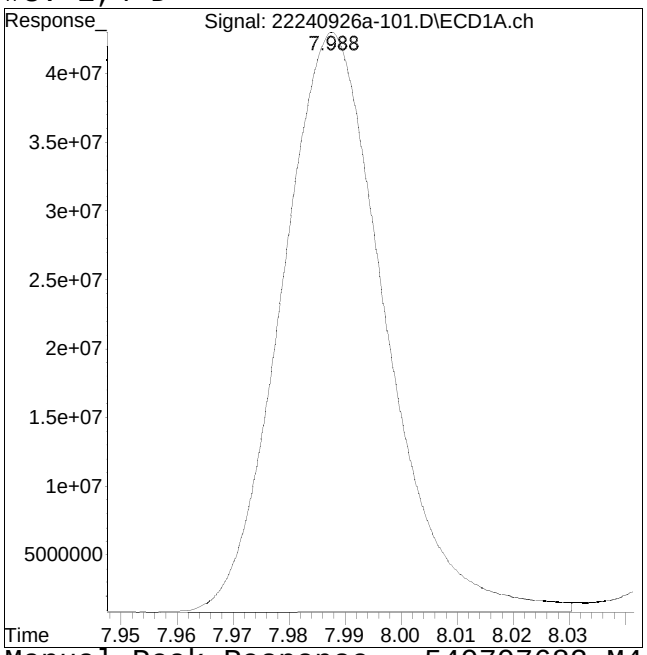
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #8: 2,4-D



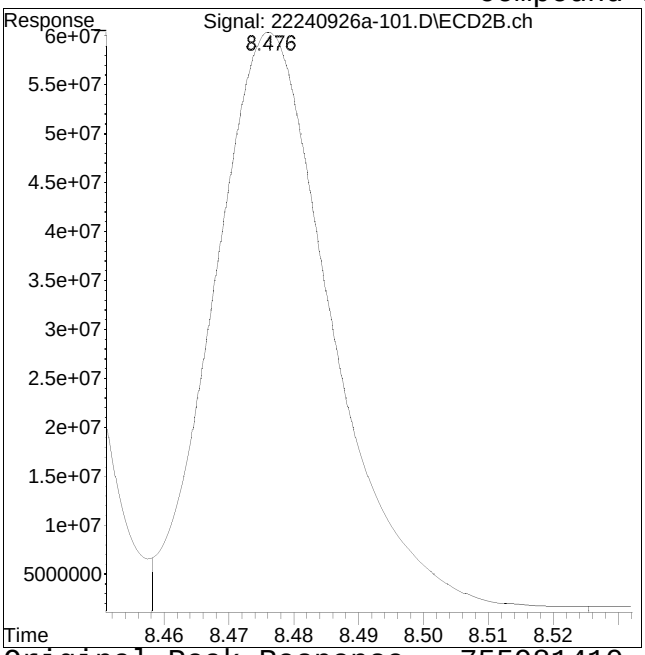


Original Peak Response = 573342302 Manual Peak Response = 540707682 M4
M4 = Poor automated baseline construction.

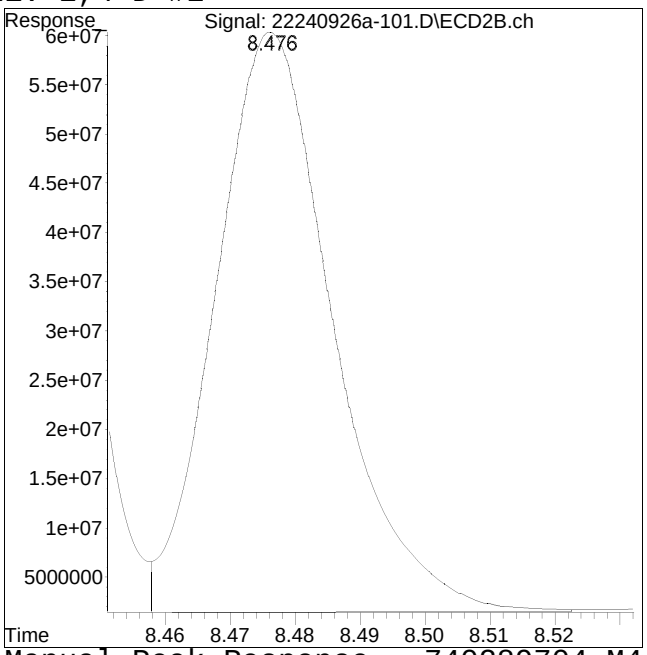
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #21: 2,4-D #2



Original Peak Response = 755981410



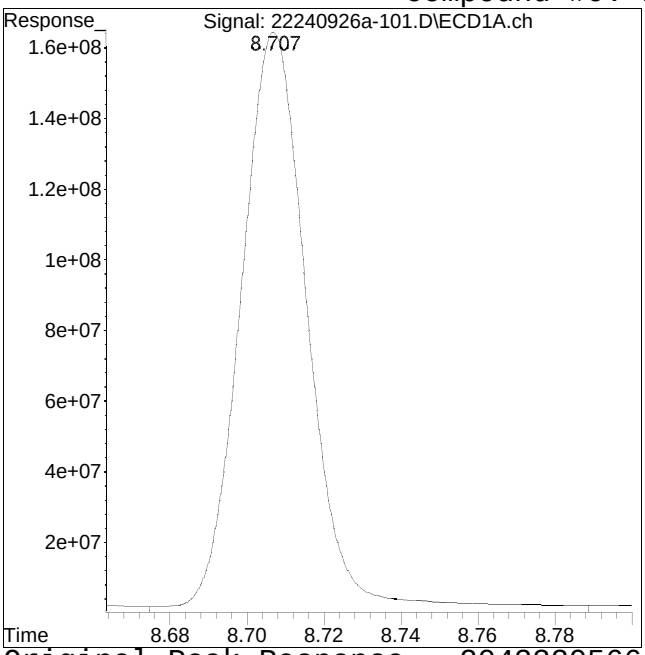
Manual Peak Response = 740289704 M4

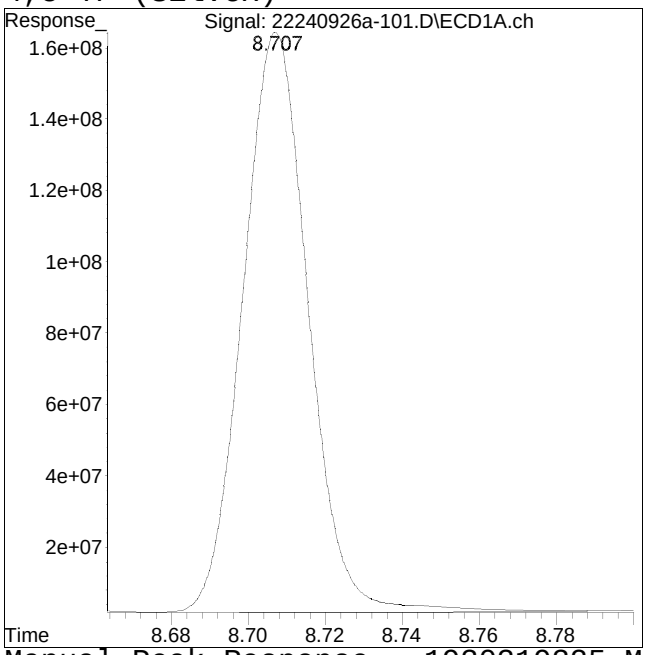
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #9: 2,4,5-TP (Silvex)



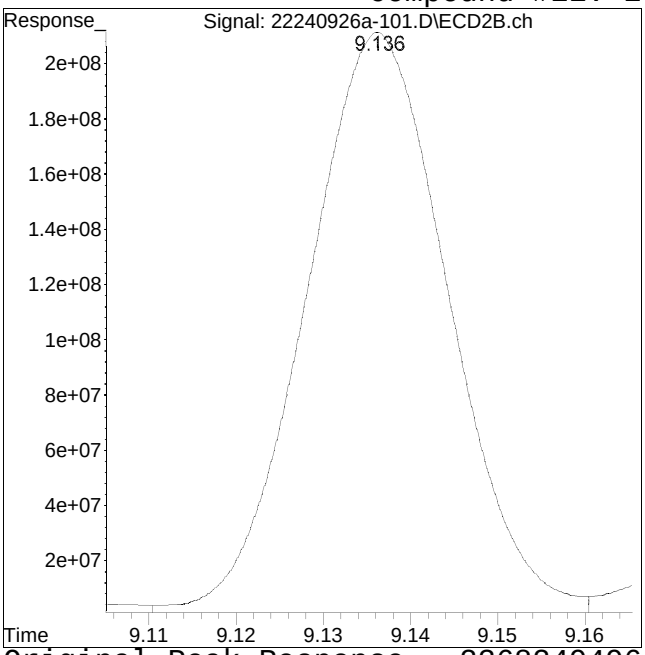


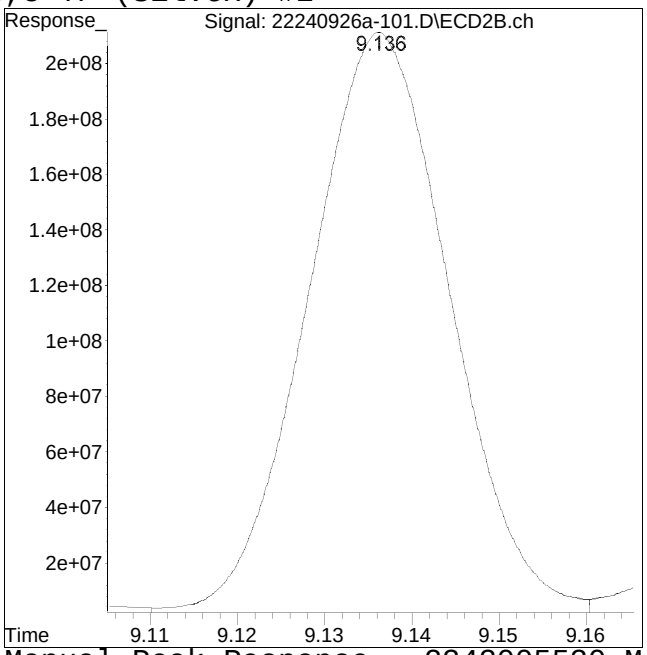
Original Peak Response = 2043329566 Manual Peak Response = 1930319325 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #22: 2,4,5-TP (Silvex) #2



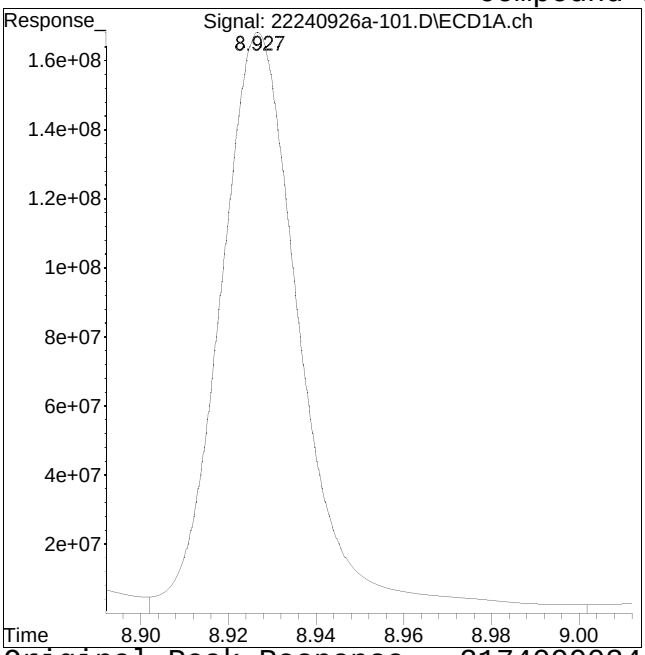


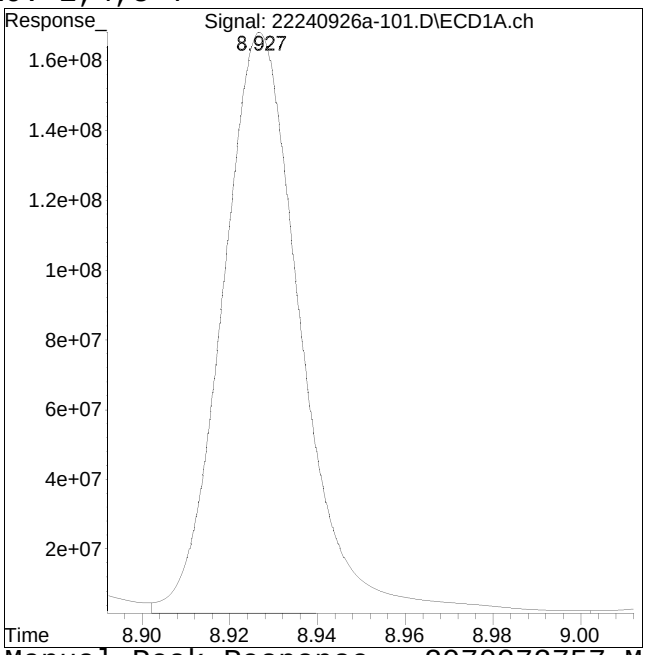
Original Peak Response = 2368249496 Manual Peak Response = 2343005530 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #10: 2,4,5-T



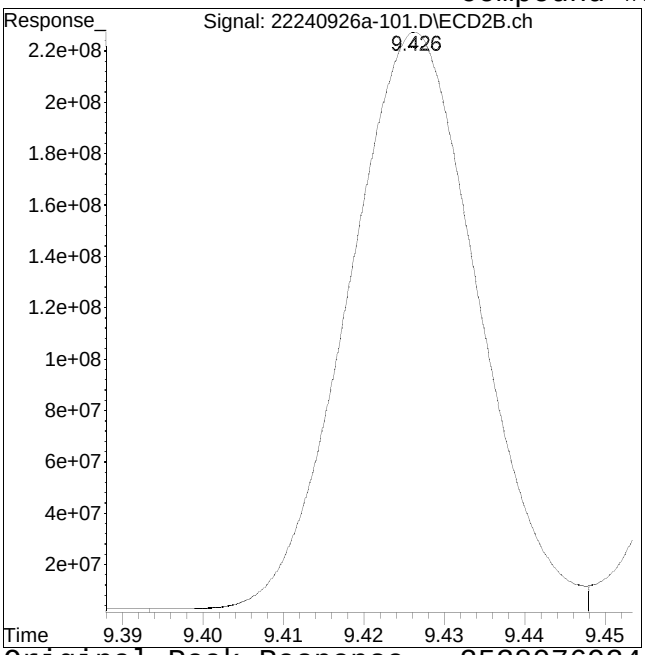


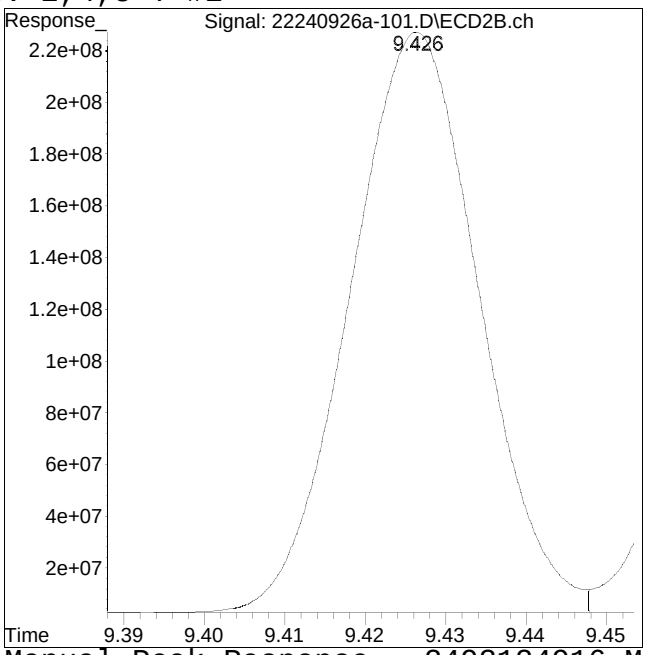
Original Peak Response = 2174099034 Manual Peak Response = 2070373757 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #23: 2,4,5-T #2



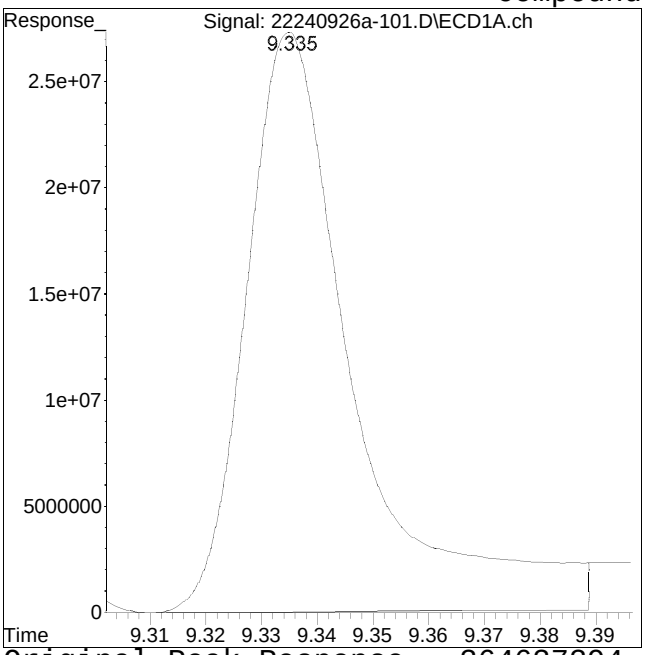


Original Peak Response = 2538076924 Manual Peak Response = 2493124916 M4
M4 = Poor automated baseline construction.

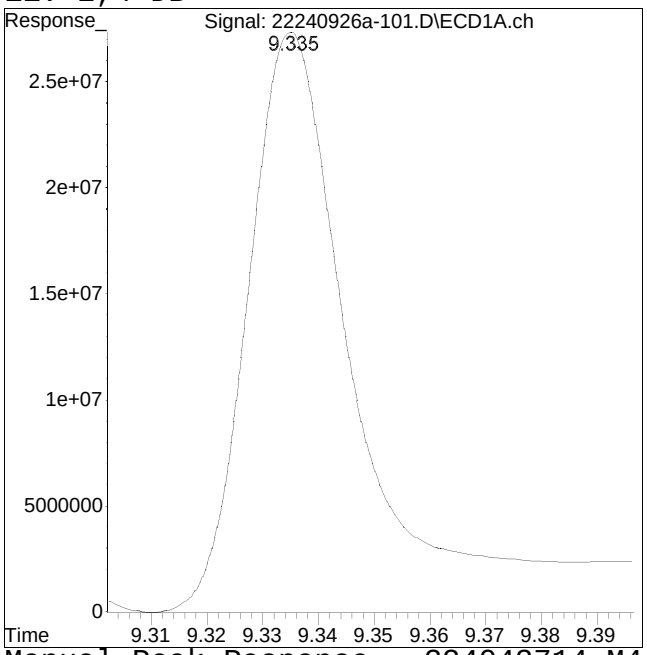
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #11: 2,4-DB



Original Peak Response = 364637394



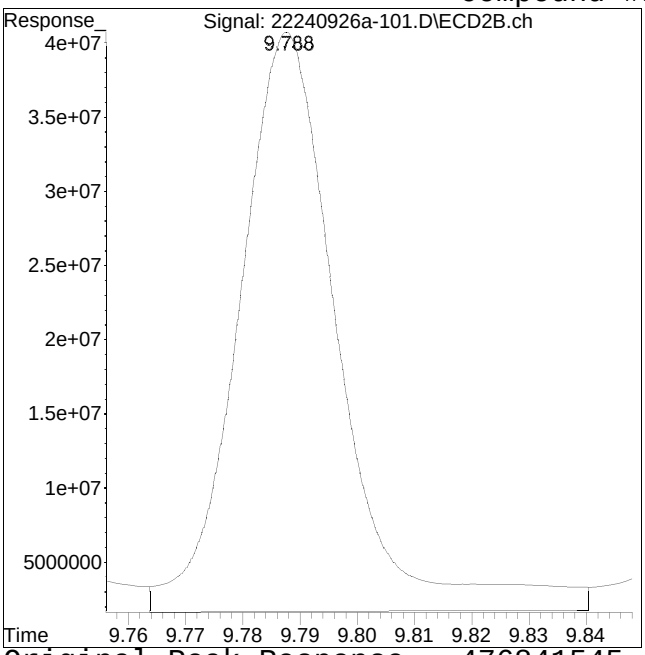
Manual Peak Response = 324043714 M4

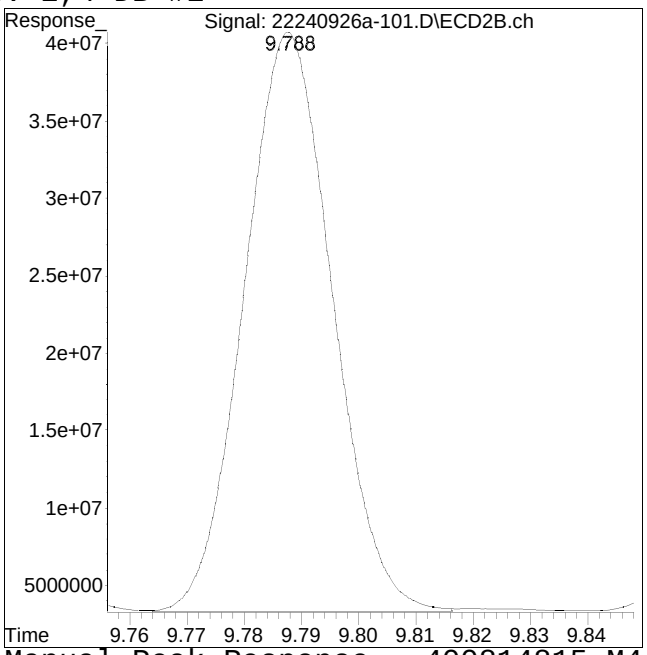
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #24: 2,4-DB #2



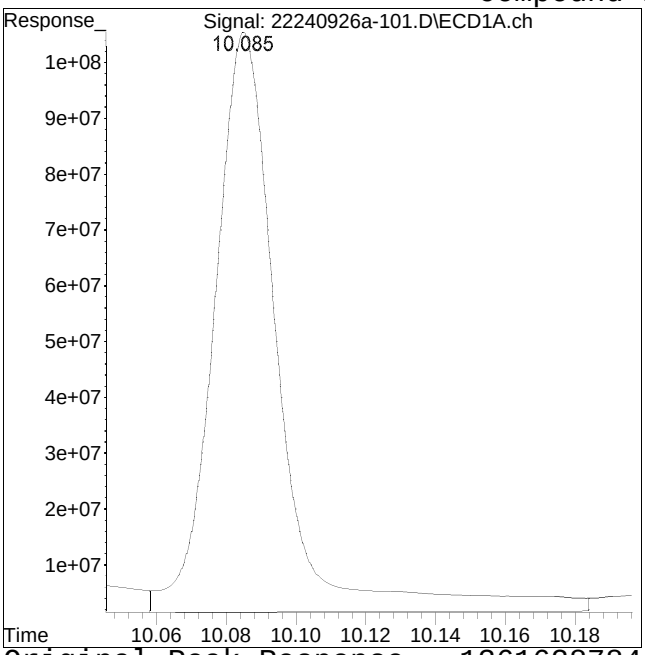


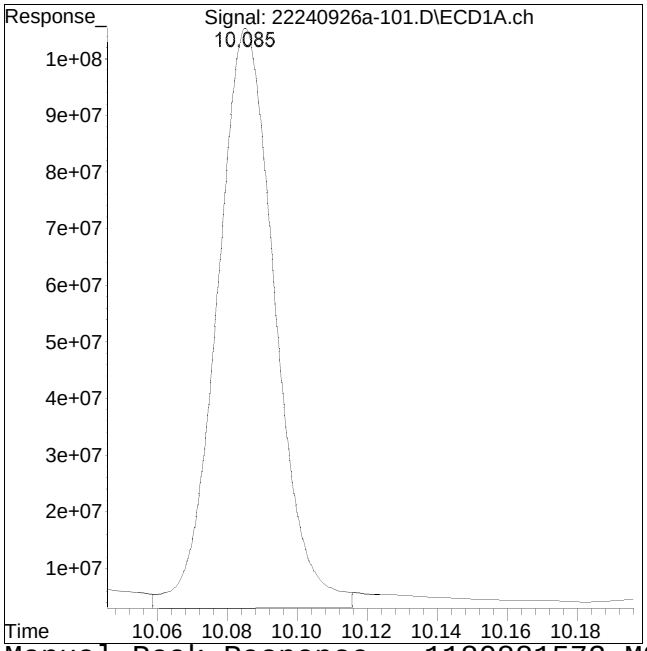
Original Peak Response = 476841545 Manual Peak Response = 400814815 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #12: Dinoseb



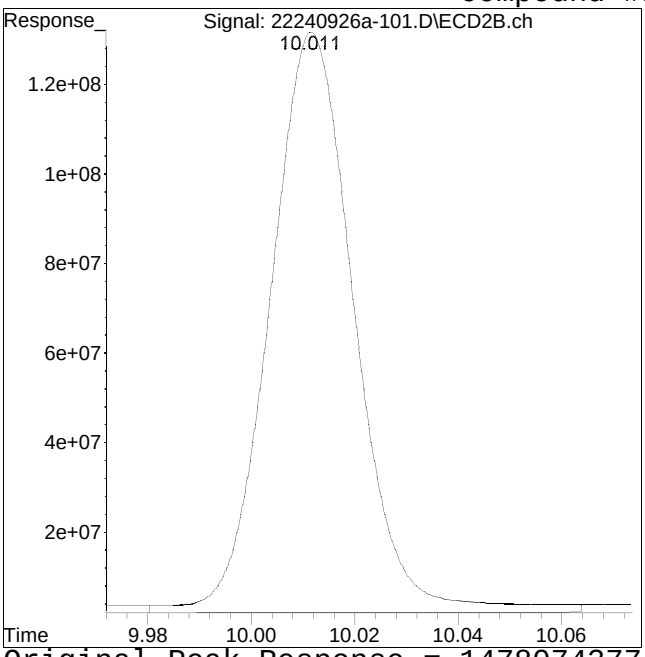


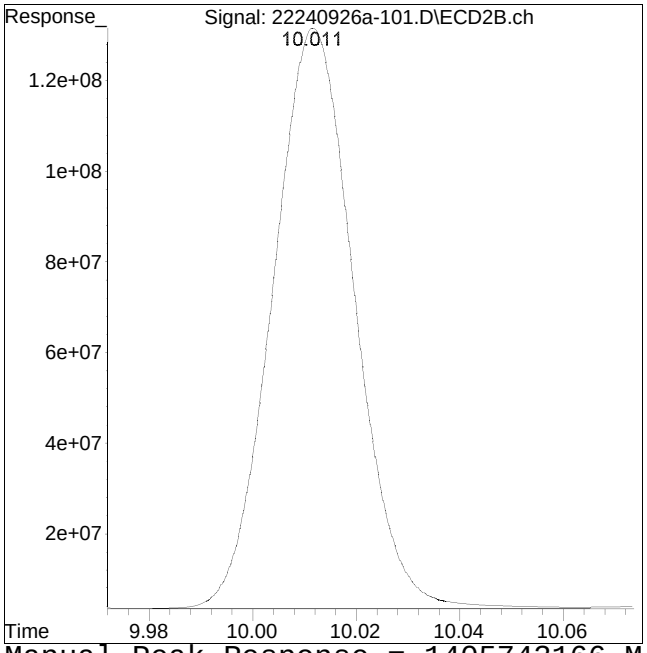
Original Peak Response = 1361628784 Manual Peak Response = 1180881573 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-101.D Operator : pest22:jag
Date Inj'd : 9/27/2024 14:56 Instrument : Pest22
Sample : WG1976959-2,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #25: Dinoseb #2





Original Peak Response = 1478074377 Manual Peak Response = 1405743166 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-102.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 15:15
Operator : pest22:jag
Sample : WG1976959-3,42,, 959 (Sig #1); WG1976958-3,42,, 959 (Sig #2)
Misc : wg1976540,WG1976959,ical21511
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:57:15 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240926a\22240926a-94.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.437	8.436	1614.7E6	2047.7E6	0.250M4	0.250M4
Standard Area 1 : #1 = 1370047604				Recovery =	117.86%	
Standard Area 1 : #2 = 1745872396				Recovery =	117.29%	
System Monitoring Compounds						
3) s DCAA (surrog	6.892	7.362	523.7E6	723.4E6	0.441M4	0.466M4
Spiked Amount	0.500	Range 30 - 150		Recovery =	88.20%	93.20%
Target Compounds						
2) t Dalapon	2.328	2.322	549.5E6	713.3E6	0.364M4	0.431M4
4) t Dicamba	7.073	7.542	1705.3E6	1979.5E6	0.465M4	0.453M4
5) t MCPP	7.276	7.656	179.5E6	229.8E6	57.482M4	53.417M4
6) t MCPA	7.422	7.883	275.1E6	373.3E6	48.950M4	47.827M4
7) t Dichloroprop	7.776	8.200	509.6E6	648.6E6	0.451M4	0.459M4
8) t 2,4-D	7.987	8.476	626.2E6	857.0E6	0.456M4	0.471M4
9) t 2,4,5-TP (Si	8.707	9.136	2251.7E6	2713.8E6	0.451M4	0.427M4
10) t 2,4,5-T	8.927	9.426	2395.4E6	2893.4E6	0.468M4	0.460M4
11) t 2,4-DB	9.335	9.787	377.4E6	466.1E6	0.504M4	0.452M4
12) t Dinoseb	10.086	10.012	1435.7E6	1658.5E6	0.376M3	0.414M4
SemiQuant Compounds - Not Calibrated on this Instrument						

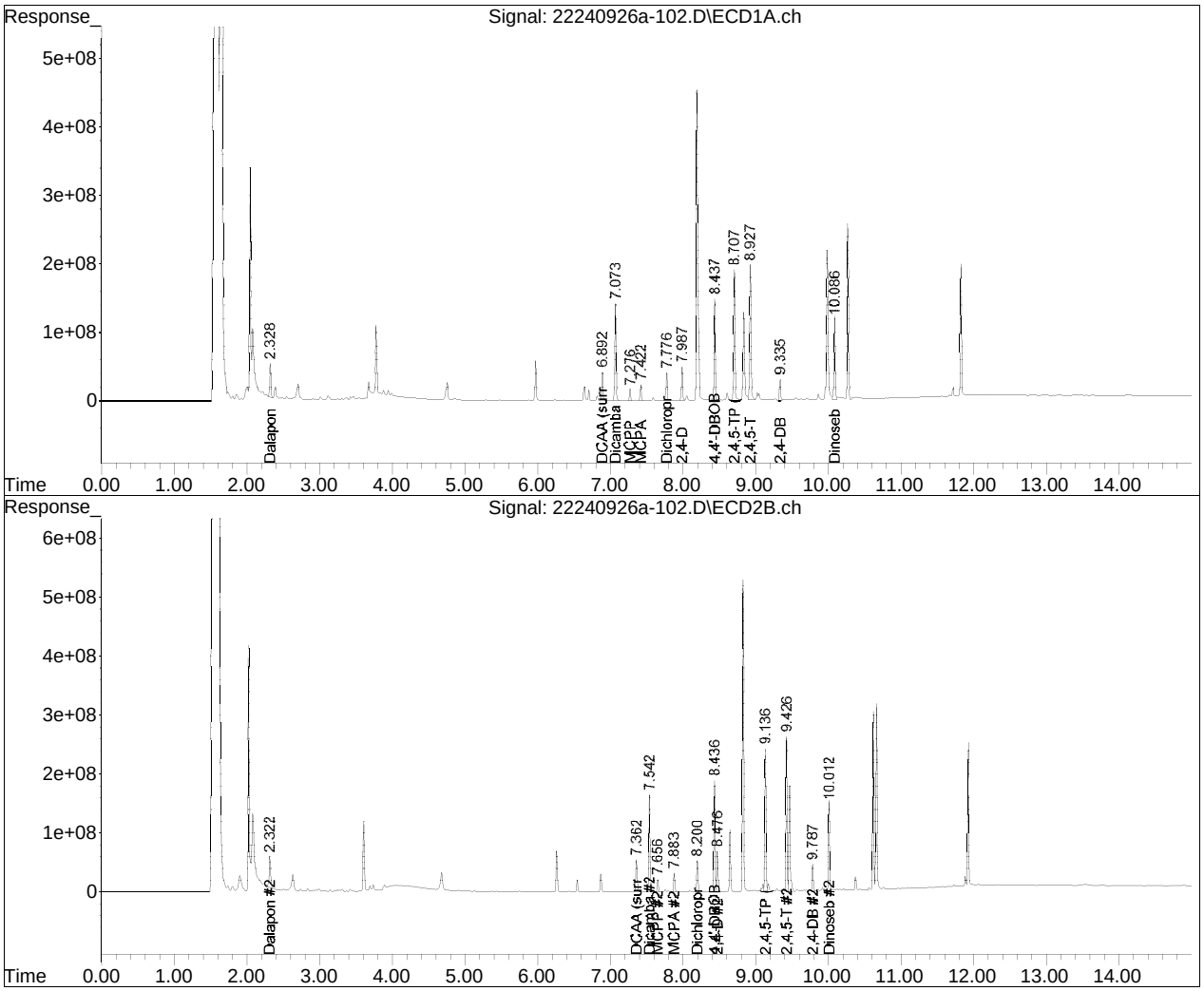
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240926a-94.D•

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-102.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 15:15
Operator : pest22:jag
Sample : WG1976959-3,42,, 959 (Sig #1); WG1976958-3,42,, 959 (Sig #2)
Misc : wg1976540,WG1976959,ical21511
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:57:15 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

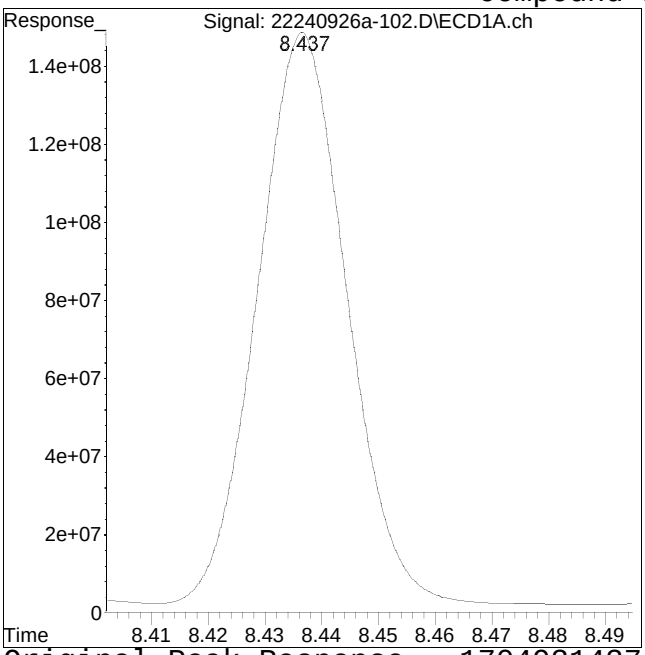
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

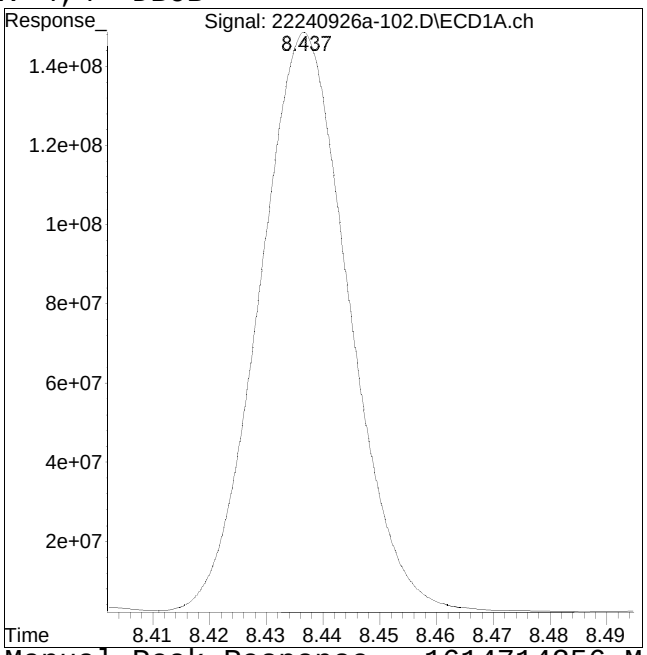


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #1: 4,4'-DBOB



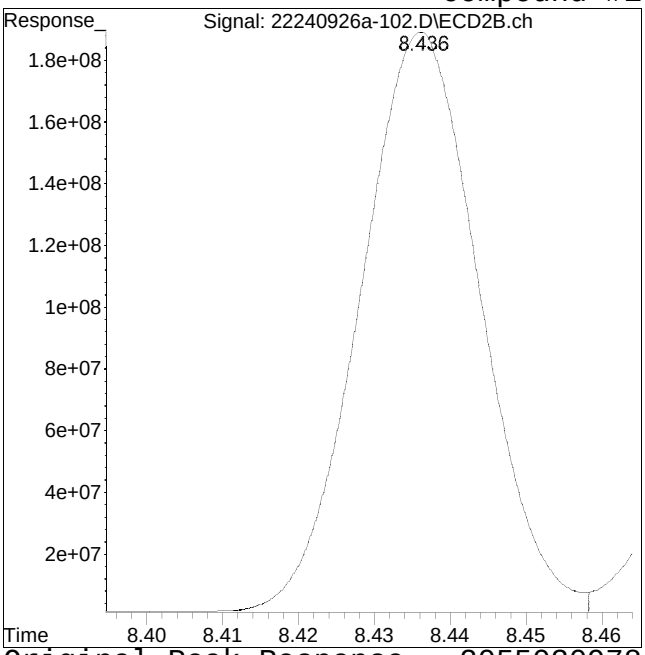


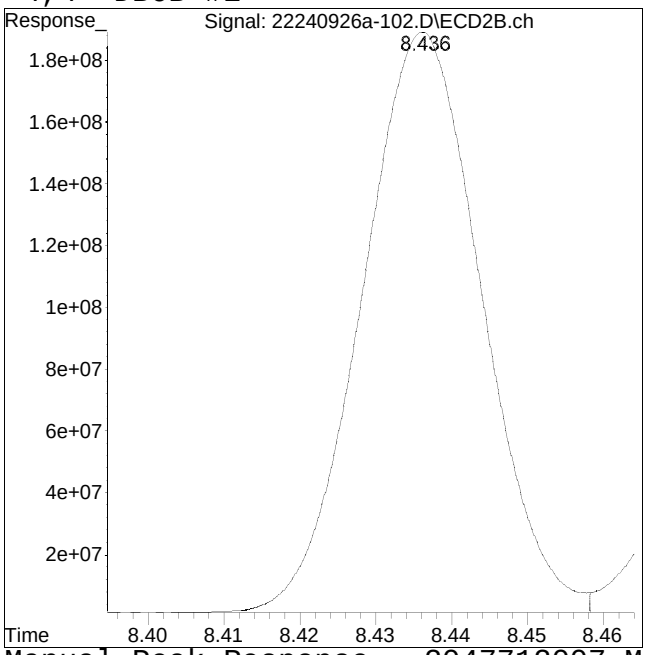
Original Peak Response = 1704931437 Manual Peak Response = 1614714256 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #14: 4,4'-DBOB #2



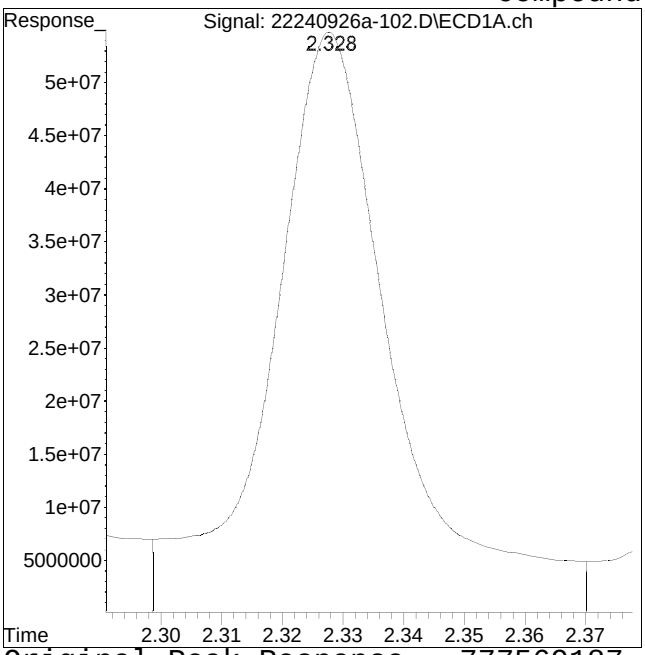


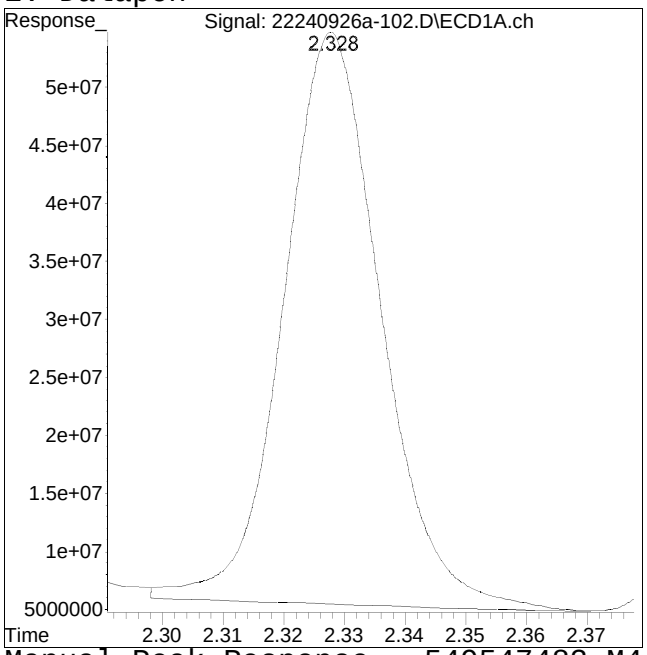
Original Peak Response = 2055030978 Manual Peak Response = 2047712007 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #2: Dalapon



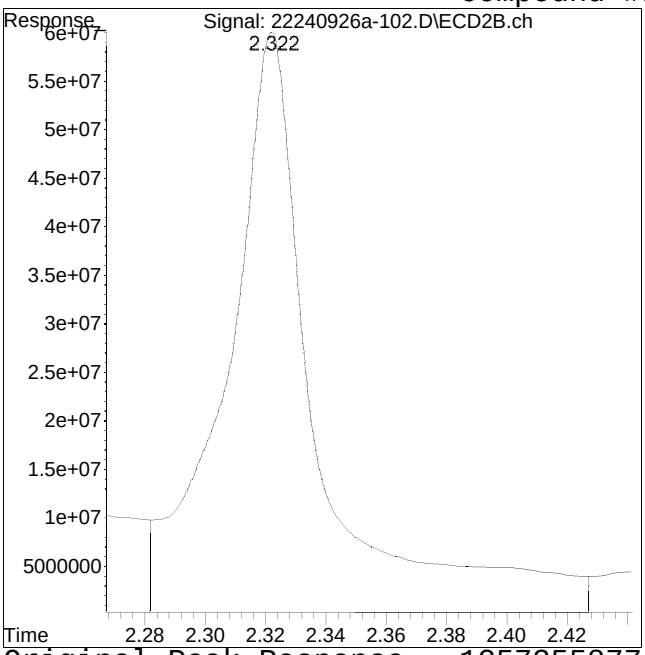


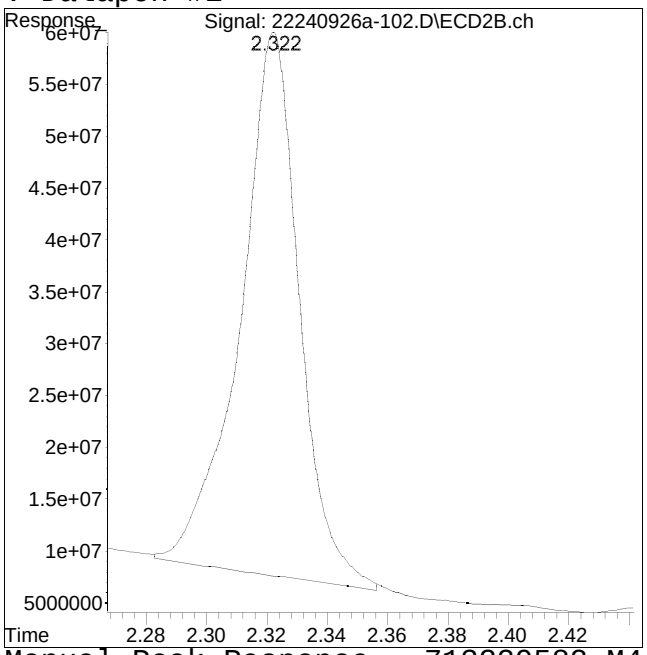
Original Peak Response = 777569187 Manual Peak Response = 549547483 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #15: Dalapon #2



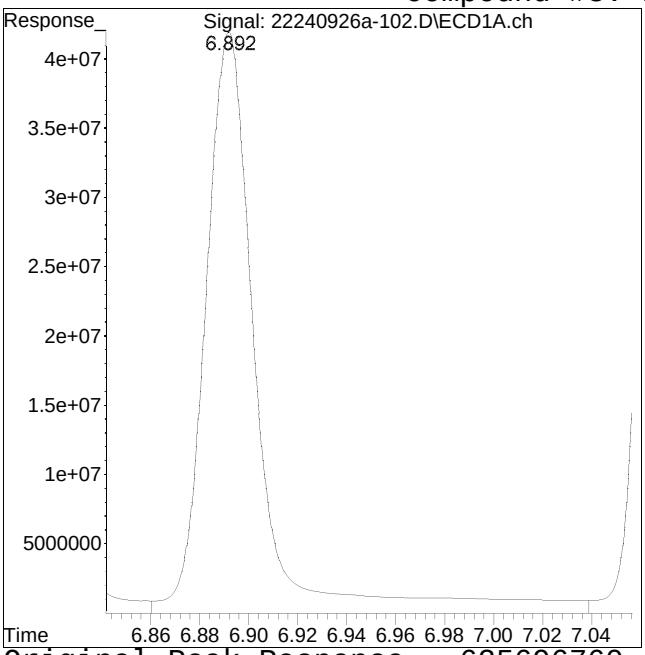


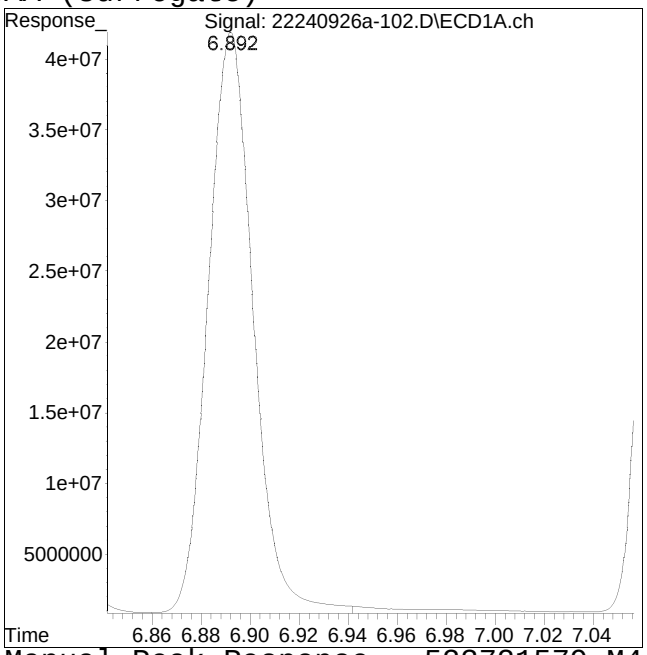
Original Peak Response = 1257355877 Manual Peak Response = 713329582 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #3: DCAA (surrogate)



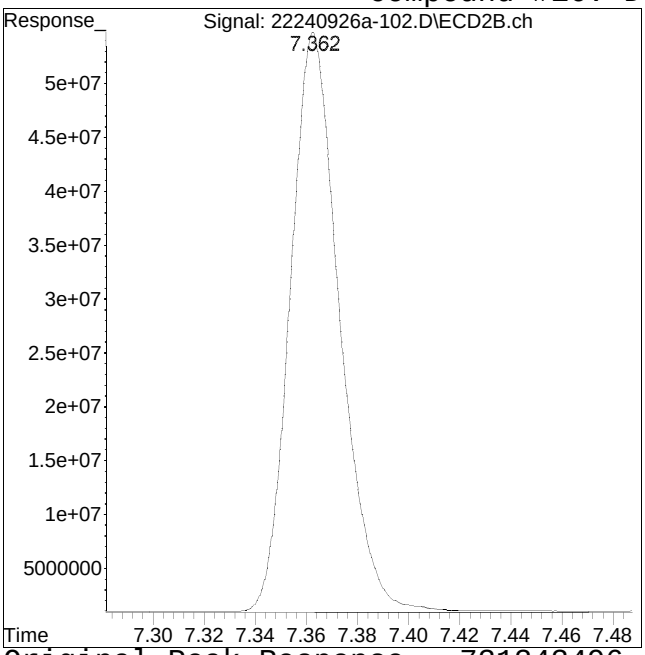


Original Peak Response = 625696760 Manual Peak Response = 523721579 M4
M4 = Poor automated baseline construction.

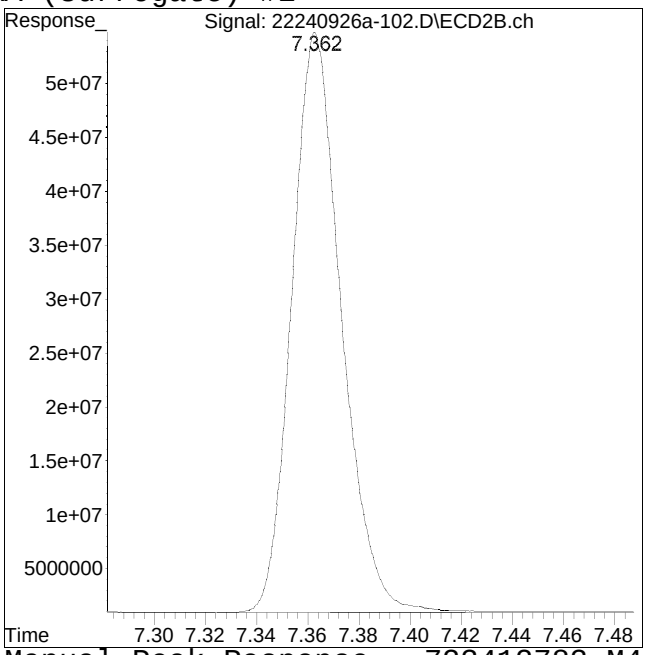
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #16: DCAA (surrogate) #2



Original Peak Response = 731343496



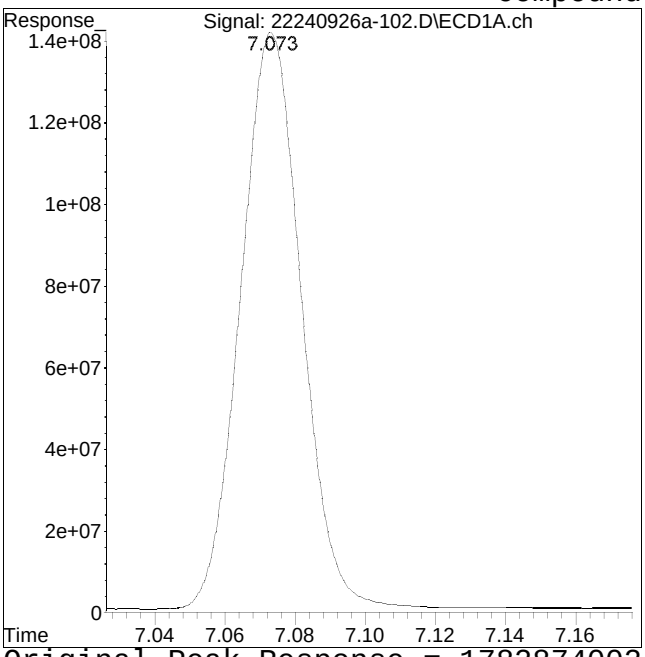
Manual Peak Response = 723412783 M4

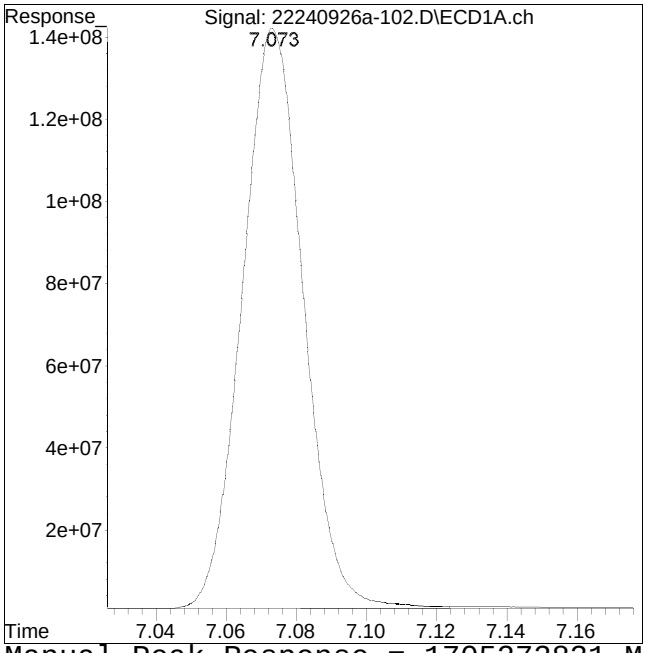
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #4: Dicamba



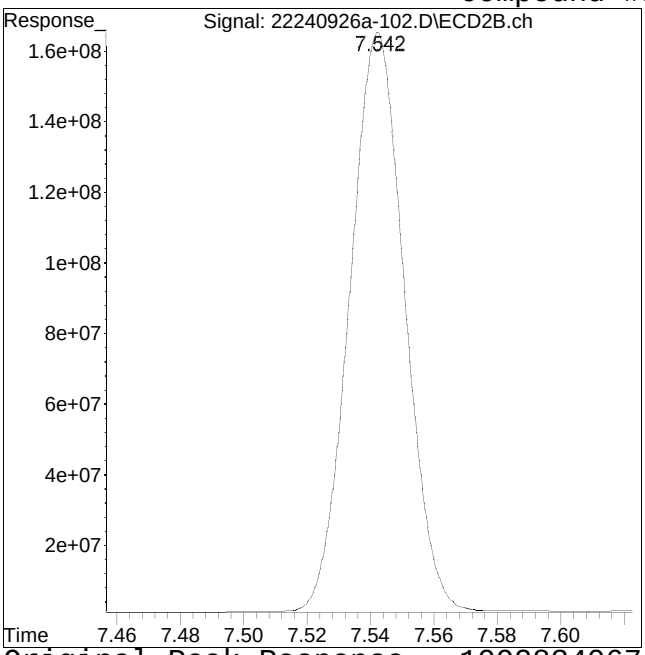


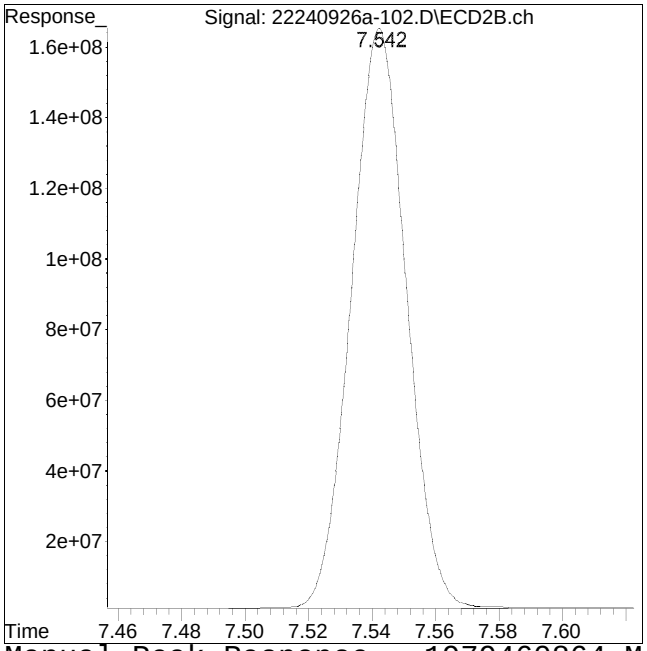
Original Peak Response = 1782874002 Manual Peak Response = 1705272831 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #17: Dicamba #2



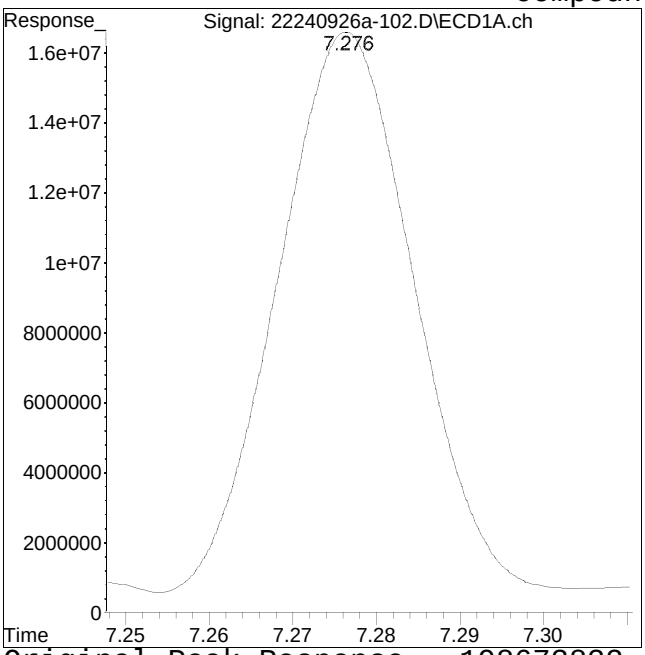


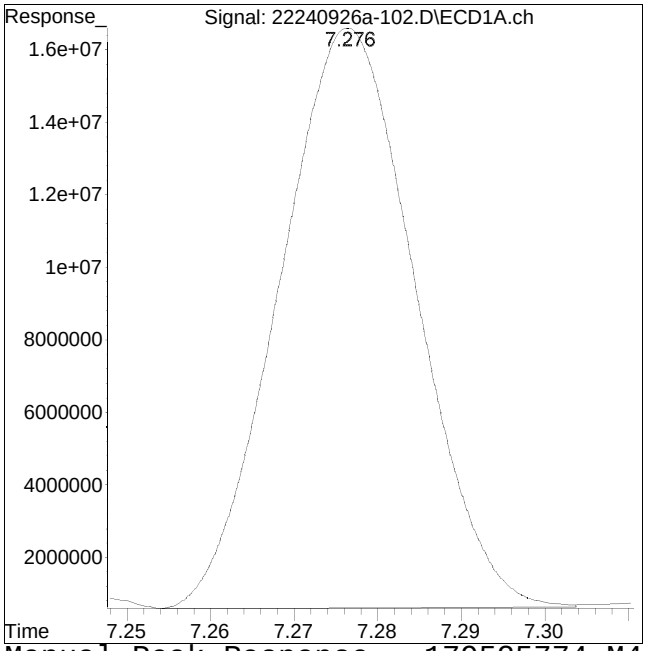
Original Peak Response = 1992834067 Manual Peak Response = 1979460864 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #5: MCPP



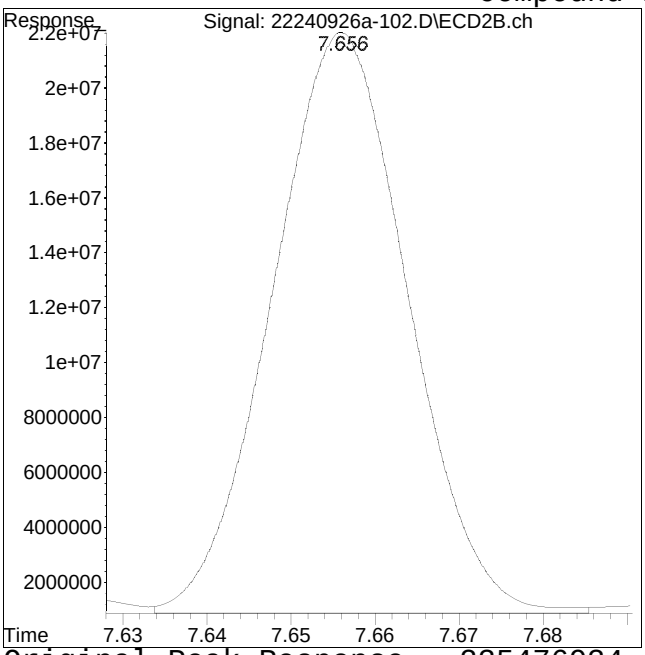


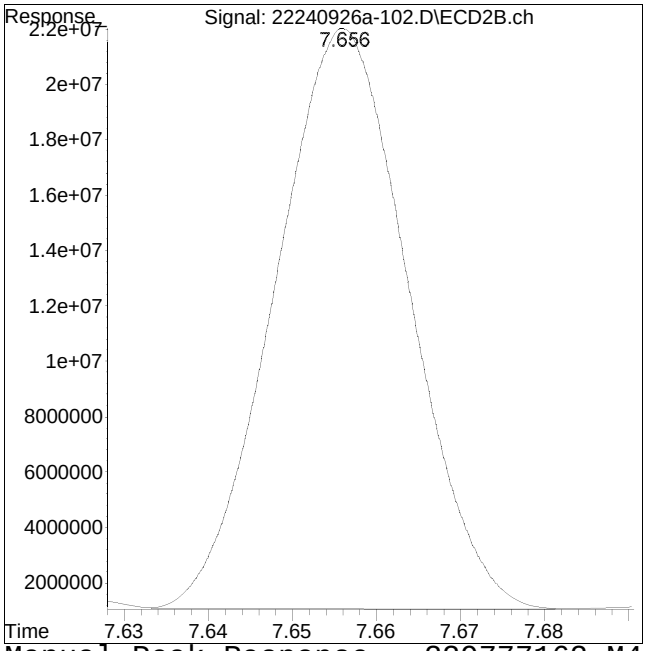
Original Peak Response = 198673832 Manual Peak Response = 179525774 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #18: MCPP #2



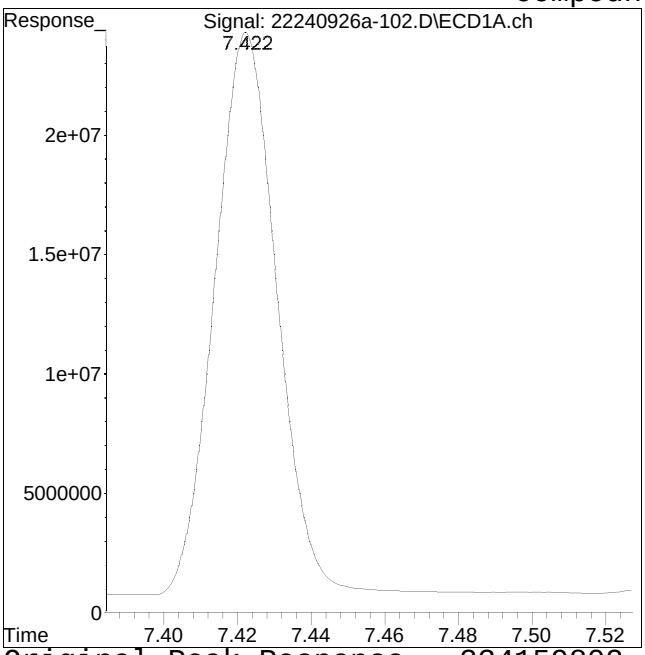


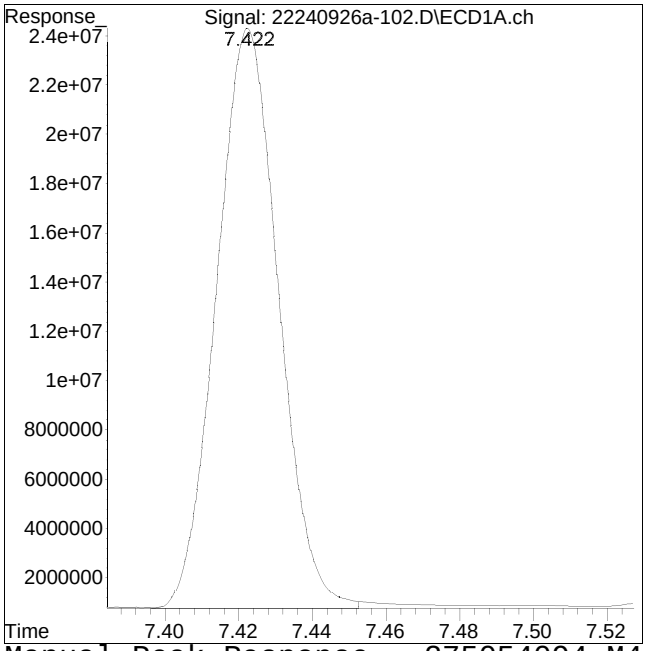
Original Peak Response = 235476934 Manual Peak Response = 229777162 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #6: MCPA



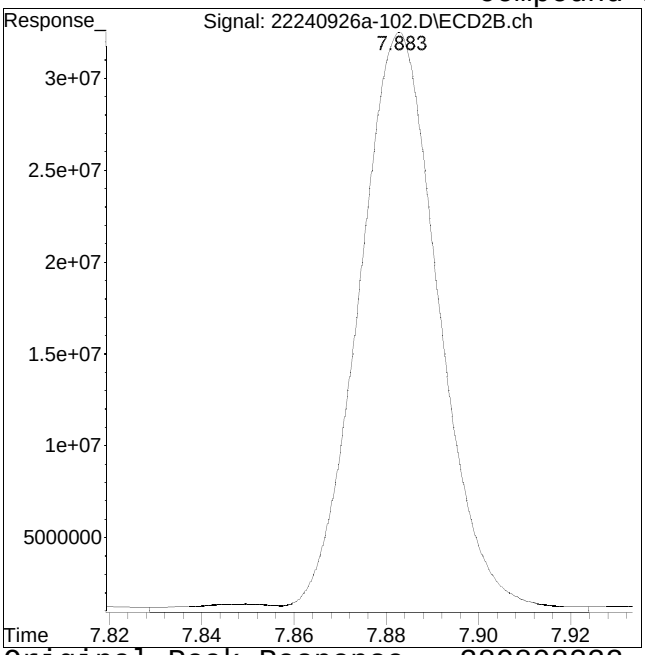


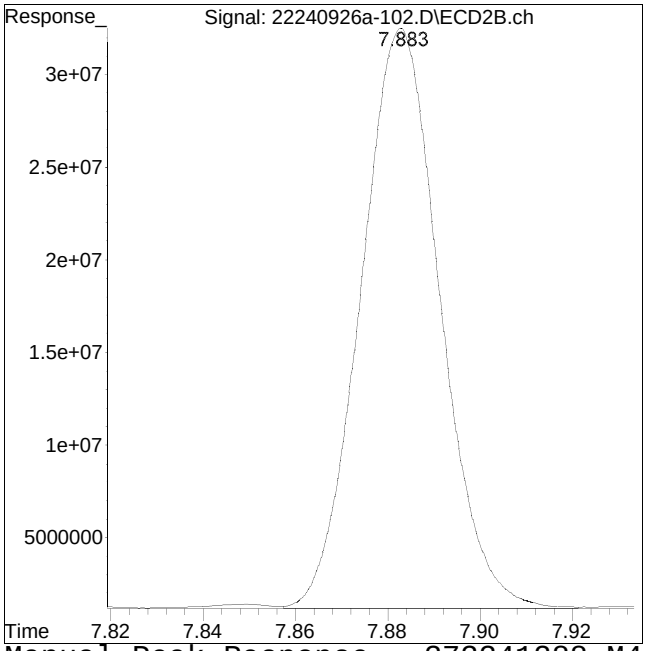
Original Peak Response = 334159802 Manual Peak Response = 275054094 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #19: MCPA #2



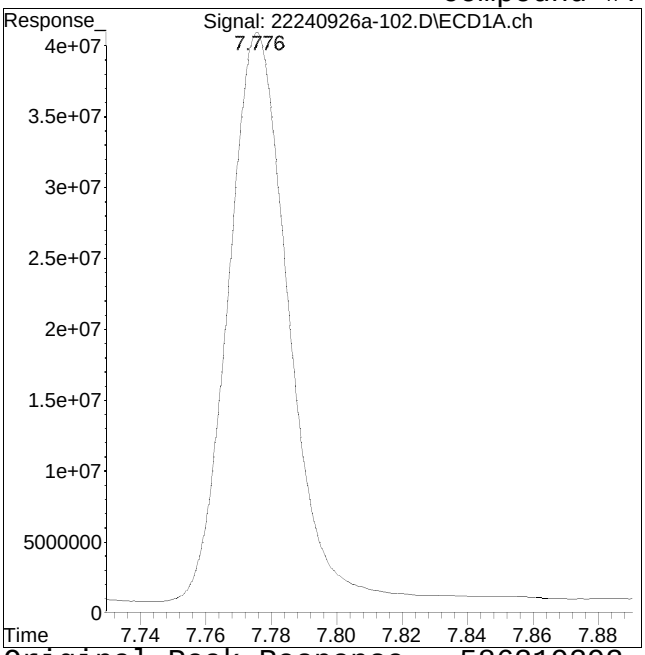


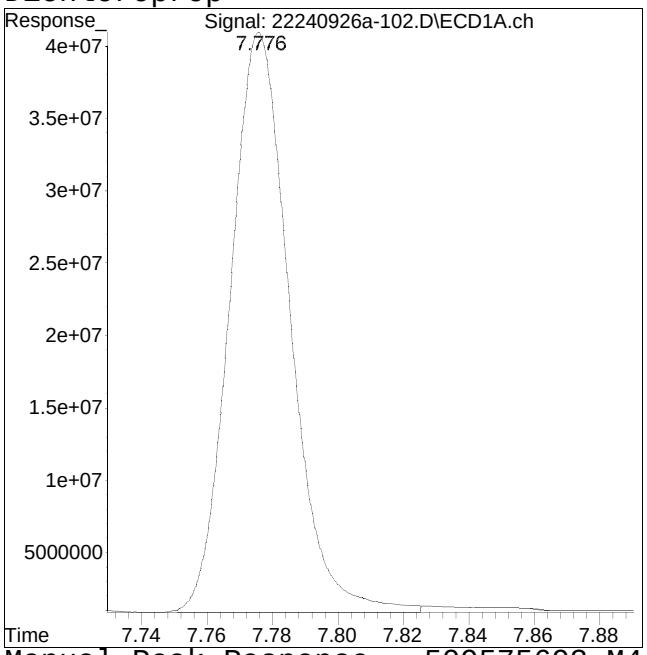
Original Peak Response = 389808332 Manual Peak Response = 373341288 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #7: Dichloroprop



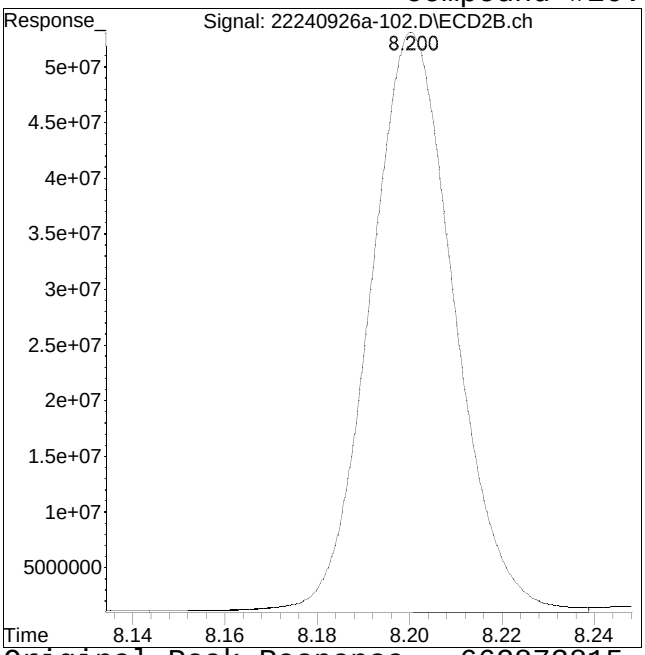


Original Peak Response = 586319393 Manual Peak Response = 509575693 M4
M4 = Poor automated baseline construction.

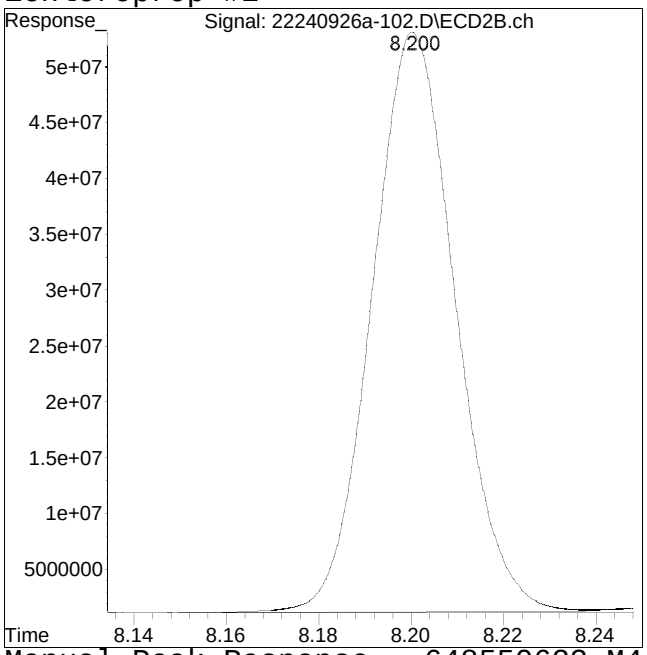
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #20: Dichloroprop #2



Original Peak Response = 662873815



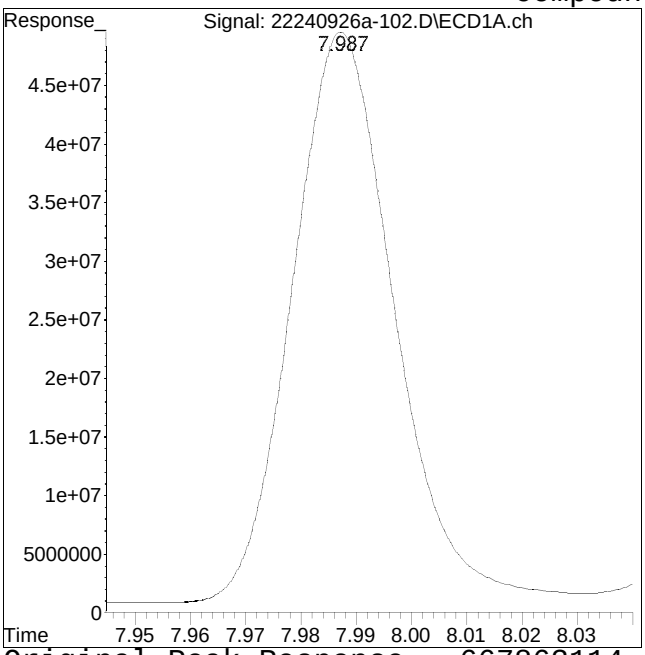
Manual Peak Response = 648550623 M4

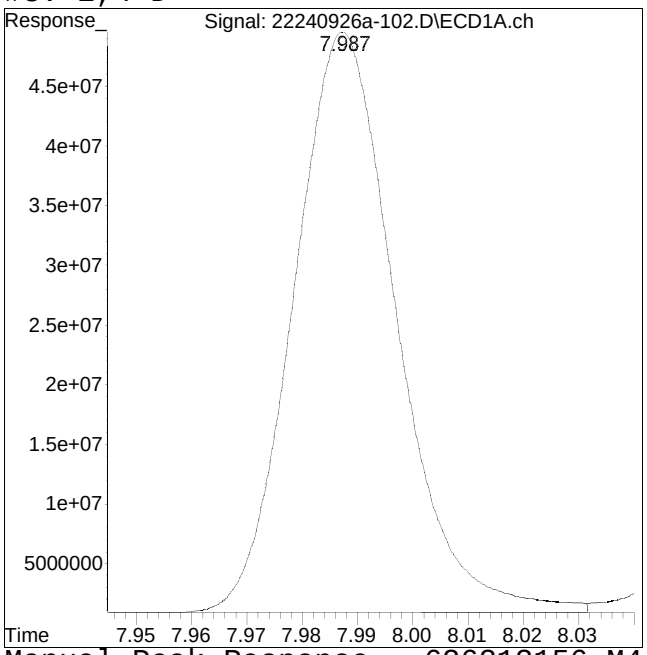
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #8: 2,4-D



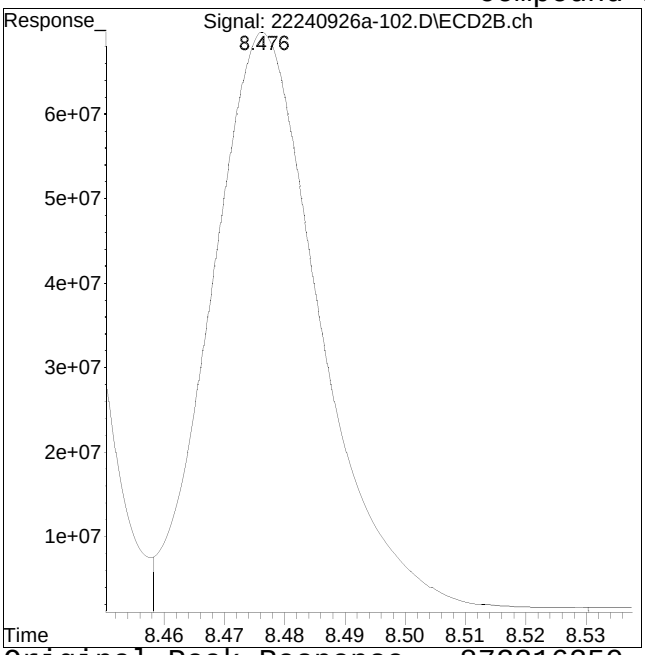


Original Peak Response = 667863114 Manual Peak Response = 626213156 M4
M4 = Poor automated baseline construction.

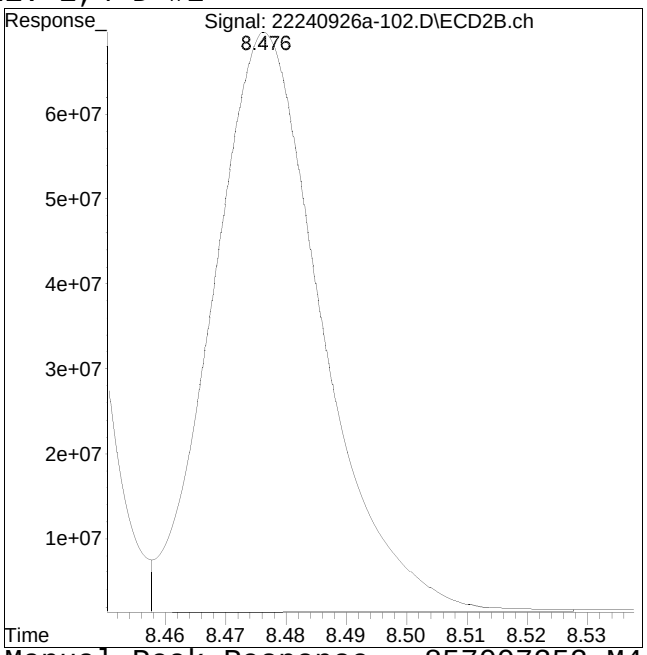
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #21: 2,4-D #2



Original Peak Response = 872316350



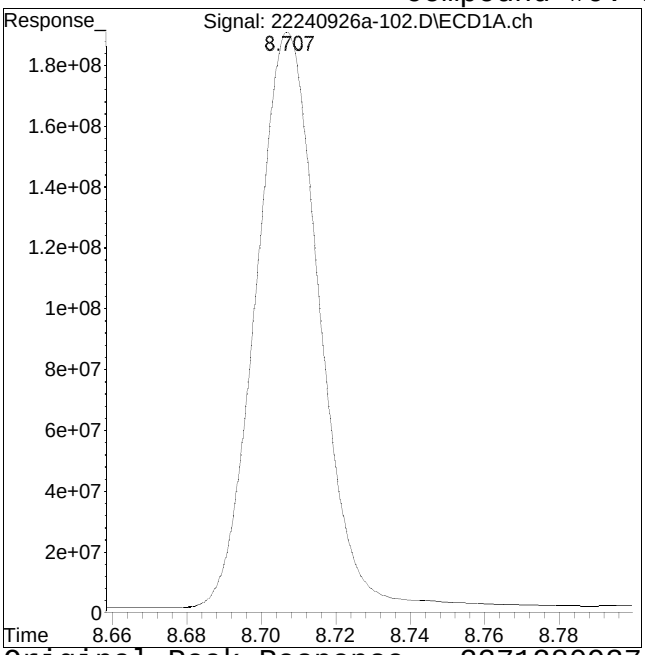
Manual Peak Response = 857007352 M4

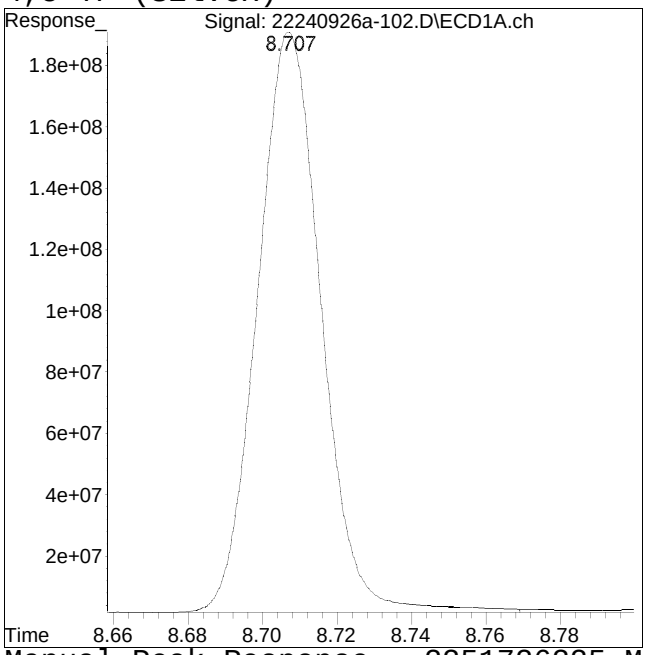
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #9: 2,4,5-TP (Silvex)



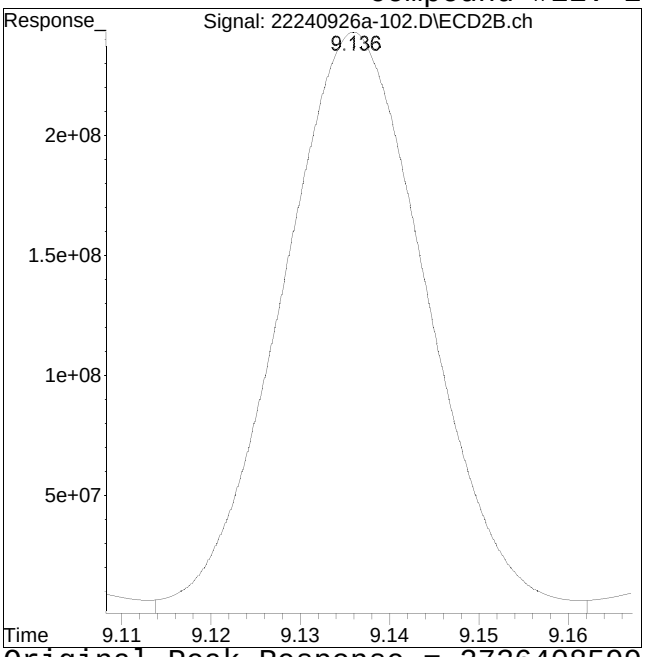


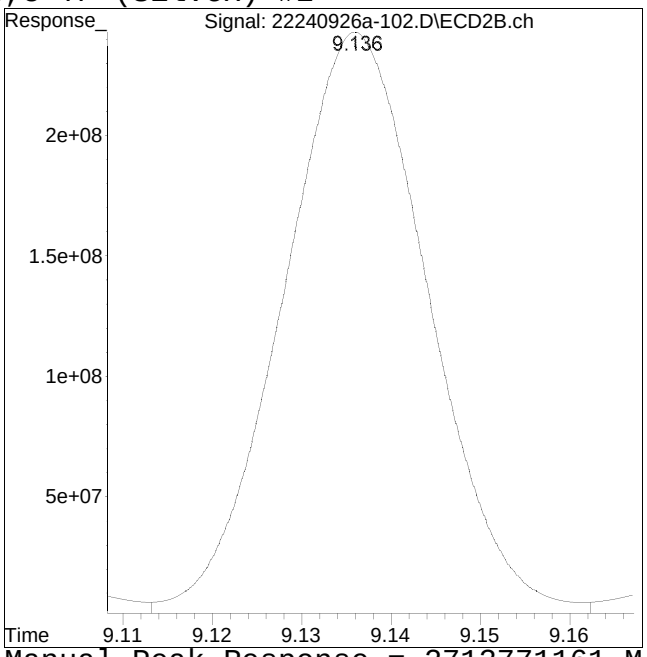
Original Peak Response = 2371280937 Manual Peak Response = 2251726225 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #22: 2,4,5-TP (Silvex) #2



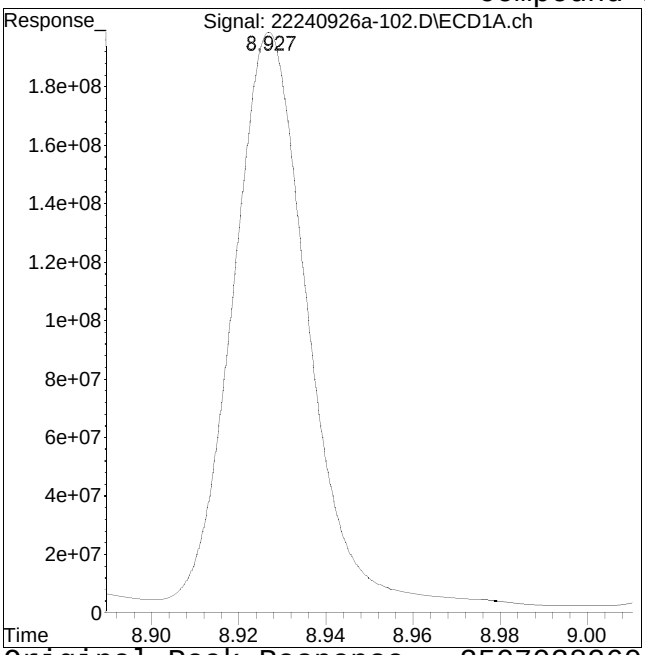


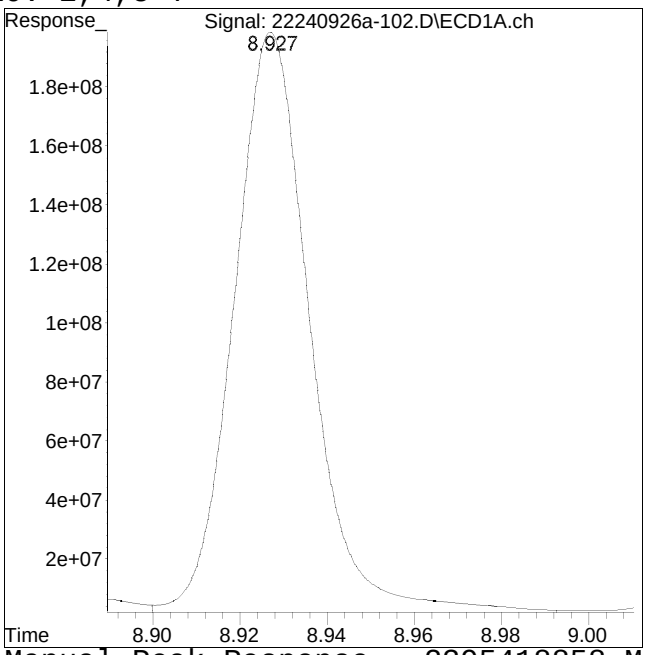
Original Peak Response = 2736408599 Manual Peak Response = 2713771161 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #10: 2,4,5-T



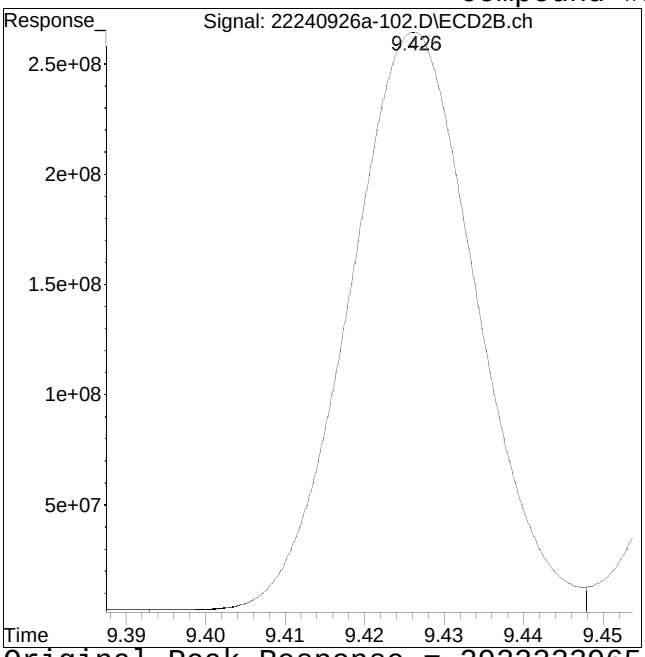


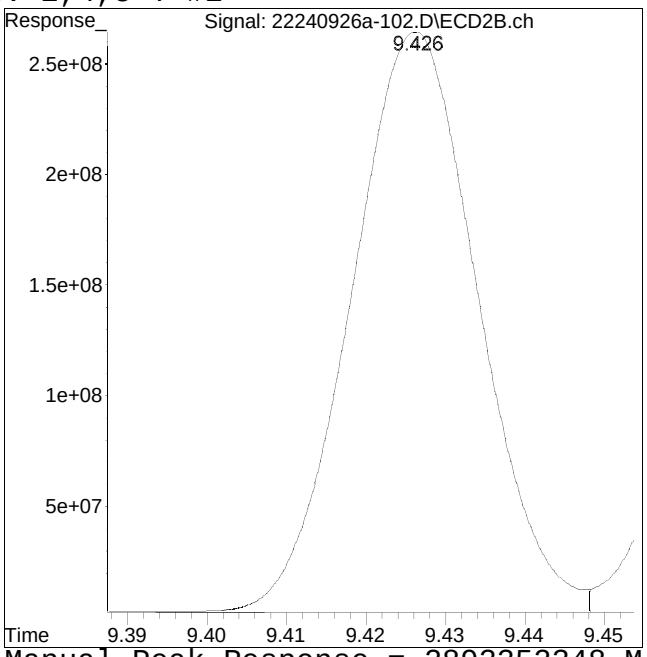
Original Peak Response = 2507038260 Manual Peak Response = 2395418858 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #23: 2,4,5-T #2



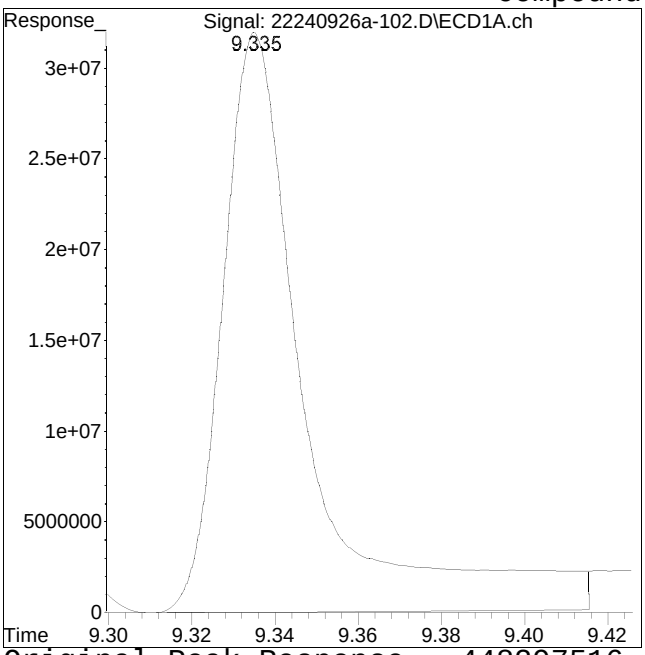


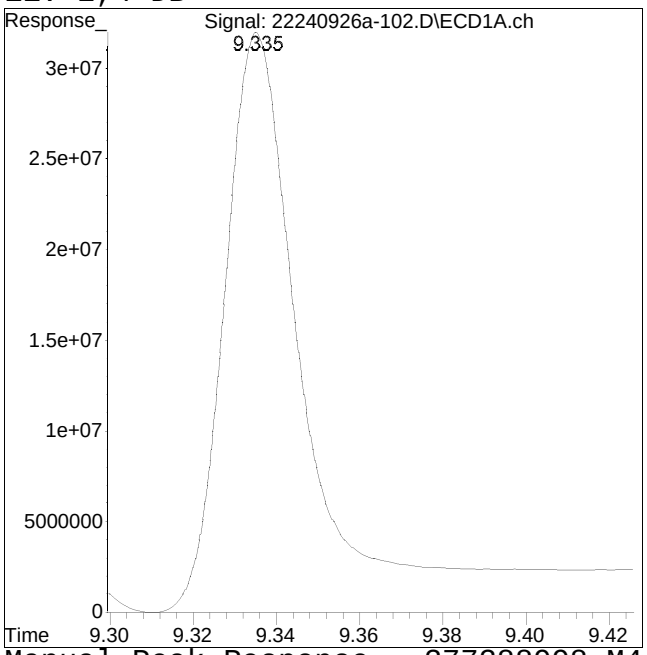
Original Peak Response = 2922223965 Manual Peak Response = 2893352348 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #11: 2,4-DB



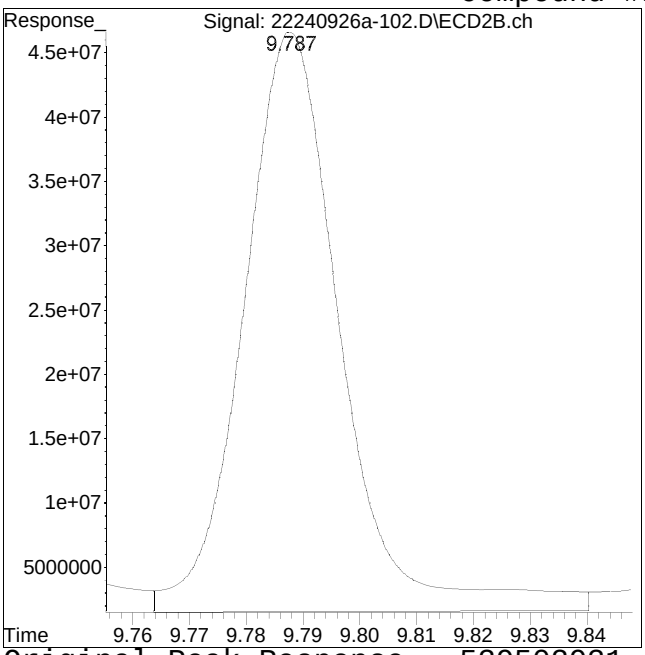


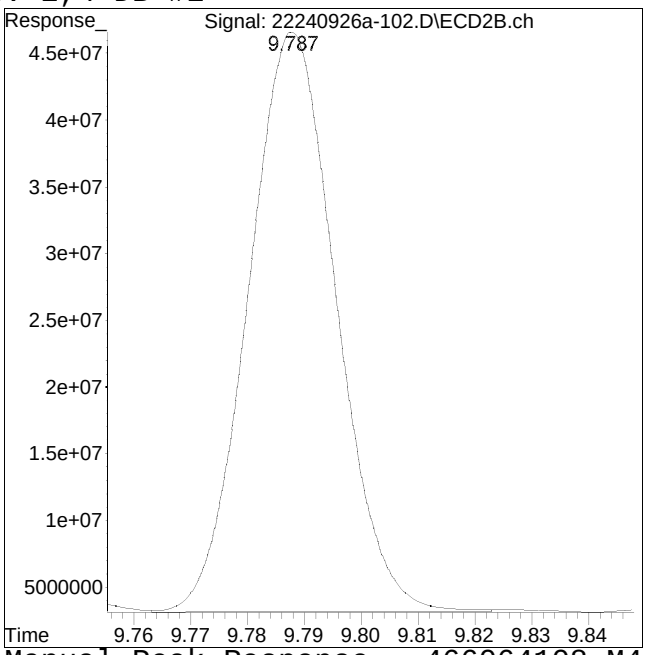
Original Peak Response = 448297516 Manual Peak Response = 377388998 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #24: 2,4-DB #2



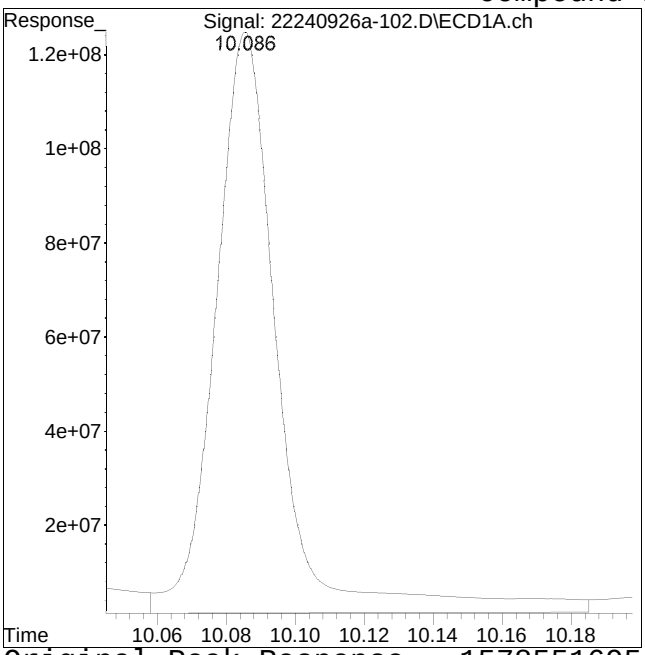


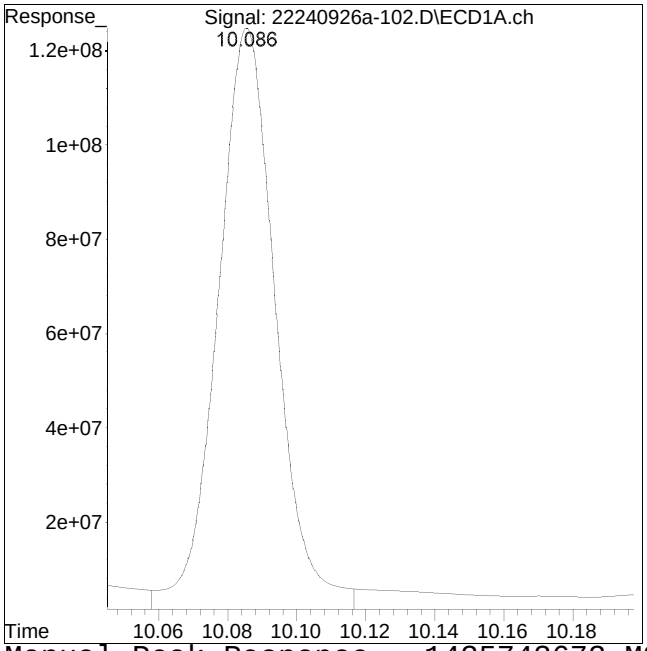
Original Peak Response = 539502931 Manual Peak Response = 466064108 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #12: Dinoseb



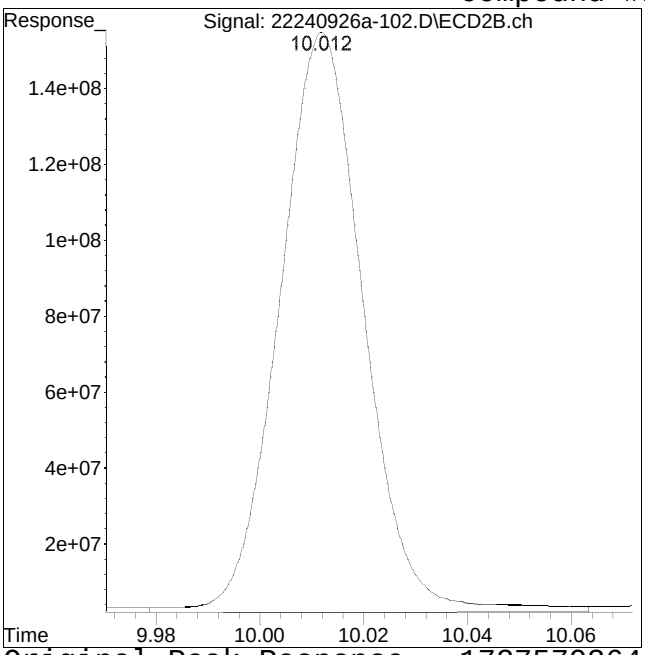


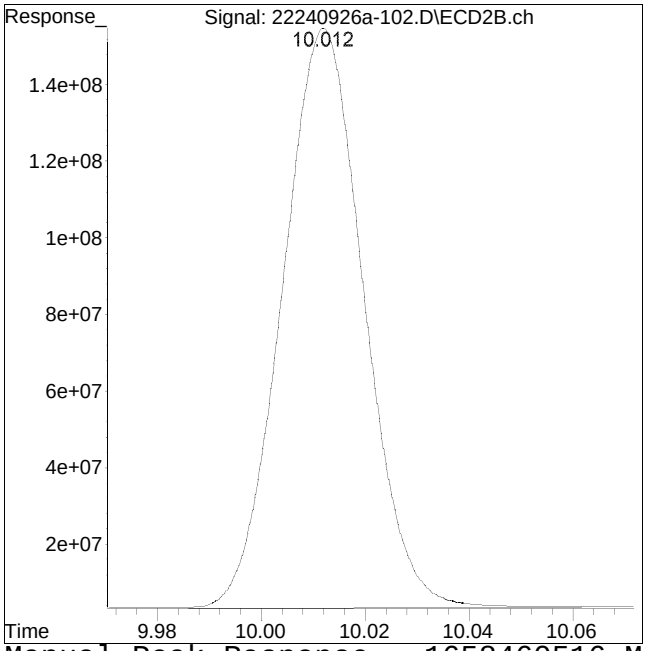
Original Peak Response = 1578551695 Manual Peak Response = 1435743673 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-102.D Operator : pest22:jag
Date Inj'd : 9/27/2024 15:15 Instrument : Pest22
Sample : WG1976959-3,42,, 959 Quant Date : 9/27/2024 4:57 pm

Compound #25: Dinoseb #2





Original Peak Response = 1727579364 Manual Peak Response = 1658460516 M4
M4 = Poor automated baseline construction.

Calculation of Herbicides

Aqueous Concentration Formula:
ug/L = [(As)*(Cis)*(D)*Vf]/[(Ais)*(RF)*(Vs)*1000]

Where:
As – Peak area of analyte
Ais – Peak area of internal standard
Cis – Concentration of internal standard (ug/L)
D – Dilution factor (D=1 for no dilution)
Vf – Final extract volume (mL)
Vs – Initial volume extracted (mL)
RF – Mean response factor

Soil/Solid Concentration Formula:
ug/kg = [(As)*(Cis)*(D)*Vf]/[(Ais)*(RF)*(Ws)*1000]

Where:
As – Peak area of analyte
Ais – Peak area of internal standard
Cis – Concentration of internal standard (ug/L)
D – Dilution factor (D=1 for no dilution)
Vf – Final extract volume (mL)
Ws – Initial weight extracted (g)
RF – Mean response factor

Dep.: PEST
Inst: PEST_22
Date: **09/20/24**
Run: ical

Method
GC: herb

Seq: WG1975124
IS: pp11738

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	22240920i-01	blank,42e,,pp 11738 ---				
2	22240920i-02	il1herb,42e,,pp 11633 L0.005/5				PEG 9/21
3	22240920i-03	il2herb,42e,,pp 11632 L0.1/10				PEG 9/21
4	22240920i-04	il3herb,42e,,pp 11631 L0.2/20				PEG 9/21
5	22240920i-05	il4herb,42e,,pp 11630 L0.5/50				PEG 9/21
6	22240920i-06	il5herb,42e,,pp 11629 L1/100				PEG 9/21
7	22240920i-07	il6herb,42e,,pp 11628 L2/200				PEG 9/21
8	22240920i-08	cicv,42e,,pp 11634 L0.2/20 ICV			akm	PEG 9/21

Dep.: PEST
Inst: PEST_22
Date: **09/26/24**
Run: a

Method
GC: herb

Seq: wg1976540
IS: pp11738

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	22240926a-01	herb11705	245t, a: 24d, silvex, 24db high, b: dino high, 6:13			PEG 9/26
2	22240926a-02	L2453730-01,42,,				AKM 9/26
3	22240926a-03	L2453730-03,42,,				AKM 9/26
4	22240926a-04	L2453730-04,42,,				AKM 9/26
5	22240926a-05	L2453730-07,42,,				AKM 9/26
6	22240926a-06	L2453730-10,42,,	re, s			AKM 9/26
7	22240926a-07	L2453730-11,42,,				AKM 9/26
8	22240926a-08	L2453730-13,42,,				AKM 9/26
9	22240926a-09	L2453616-07,42,,				AKM 9/26
10	22240926a-10	L2453616-13,42,,				AKM 9/26
11	22240926a-11	L2453616-15,42,,				AKM 9/26
12	22240926a-12	herb11705	a: dicamba high, 11:20			AKM 9/26
13	22240926a-13	L2454005-01,42,, p				JAG 9/26
14	22240926a-14	WG1975530-4,42,, ms				JAG 9/26
15	22240926a-15	WG1975530-5,42,, dup			peg	JAG 9/26
16	22240926a-16	WG1976389-1,42,, t	t 22-SEP-24 07:00			JAG 9/26
17	22240926a-17	WG1976389-2,42,, t	t 22-SEP-24 07:00			JAG 9/26
18	22240926a-18	WG1976389-3,42,, t	t 22-SEP-24 07:00			JAG 9/26
19	22240926a-19	L2453929-01,42,,,R3E t	t 22-SEP-24 07:00			JAG 9/26
20	22240926a-20	L2453730-02,42,,				JAG 9/26
21	22240926a-21	L2453730-05,42,,				JAG 9/26
22	22240926a-22	L2453730-06,42,,				JAG 9/26
23	22240926a-23	L2453730-08,42,,				JAG 9/26
24	22240926a-24	L2453730-09,42,,				JAG 9/26
25	22240926a-25	L2453730-12,42,,			akm	JAG 9/26
26	22240926a-26	L2453730-14,42,,				JAG 9/26
27	22240926a-27	L2453620-01,42,,				JAG 9/26
28	22240926a-28	herb11705	15% 16:17			JAG 9/26
29	22240926a-29	L2454080-01,42,,				JAG 9/26
30	22240926a-30	L2454080-02,42,,				JAG 9/26
31	22240926a-31	L2454080-03,42,,				JAG 9/26
32	22240926a-32	L2454088-01,42,,				JAG 9/26
33	22240926a-33	L2454088-02,42,,				JAG 9/26
34	22240926a-34	L2454088-03,42,,				JAG 9/26
35	22240926a-35	L2454088-04,42,,				JAG 9/26
36	22240926a-36	L2454288-01,42,,,R5E				JAG 9/26
37	22240926a-37	L2454548-01,42,,,R3C				JAG 9/26
38	22240926a-38	L2454548-02,42,,,R3C				JAG 9/26
39	22240926a-39	herb11705	15% 19:41			JAG 9/26
40	22240926a-40	L2454548-03,42,,,R3C			peg	AKM 9/27
41	22240926a-41	L2454657-01,42,,				AKM 9/27
42	22240926a-42	L2454657-02,42,,				AKM 9/27
43	22240926a-43	L2454657-03,42,,				AKM 9/27
44	22240926a-44	L2453915-01,42,, t	t 22-sep-24 07:00			AKM 9/27
45	22240926a-45	L2453876-01,42,, t	t 22-sep-24 07:00			AKM 9/27

Dep.: PEST
Inst: PEST_22
Date: **09/26/24**
Run: a

Method
GC: herb

Seq: wg1976540
IS: pp11738

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
46	22240926a-46	L2453870-01,42,, t	t 22-sep-24 07:00			AKM 9/27
47	22240926a-47	L2453620-02,42,,			akm	AKM 9/27
48	22240926a-48	WG1976116-1,42,, 181 182 183				AKM 9/27
49	22240926a-49	WG1976116-2,42,, 181 182 183				AKM 9/27
50	22240926a-50	WG1976116-3,42,, 181 182 183				AKM 9/27
51	22240926a-51	L2454093-01,42,,				AKM 9/27
52	22240926a-52	L2454093-02,42,,				AKM 9/27
53	22240926a-53	herb11705 15% 00:01				AKM 9/27
54	22240926a-54	L2454093-03,42,,				AKM 9/27
55	22240926a-55	L2454093-04,42,,				AKM 9/27
56	22240926a-56	L2454093-05,42,,				AKM 9/27
57	22240926a-57	L2454093-06,42,,				AKM 9/27
58	22240926a-58	L2454093-07,42,,				AKM 9/27
59	22240926a-59	L2454093-08,42,,				AKM 9/27
60	22240926a-60	L2454093-09,42,,				AKM 9/27
61	22240926a-61	L2454093-10,42,,				AKM 9/27
62	22240926a-62	L2454093-11,42,,				AKM 9/27
63	22240926a-63	L2454093-12,42,,				AKM 9/27
64	22240926a-64	herb11705 15% 3:26				AKM 9/27
65	22240926a-65	L2454093-13,42,,				AKM 9/27
66	22240926a-66	L2454093-14,42,,			jag	AKM 9/27
67	22240926a-67	WG1976393-1,42,, 5958				AKM 9/27
68	22240926a-68	WG1976393-2,42,, 5958				AKM 9/27
69	22240926a-69	WG1976393-3,42,, 5958				AKM 9/27
70	22240926a-70	L2454059-01,42,,				AKM 9/27
71	22240926a-71	L2454059-02,42,,				AKM 9/27
72	22240926a-72	L2453975-23,42,,				AKM 9/27
73	22240926a-73	L2453720-02,42,, p				AKM 9/27
74	22240926a-74	WG1975468-4,42,, ms				AKM 9/27
75	22240926a-75	WG1975468-5,42,, msd				AKM 9/27
76	22240926a-76	L2453720-01,42,,				AKM 9/27
77	22240926a-77	L2453720-03,42,,				AKM 9/27
78	22240926a-78	L2453720-04,42,,				AKM 9/27
79	22240926a-79	L2453720-06,42,,				AKM 9/27
80	22240926a-80	herb11705 15% 8:23				AKM 9/27
81	22240926a-81	L2453720-07,42,,				AKM 9/27
82	22240926a-82	L2453720-08,42,,				AKM 9/27
83	22240926a-83	L2453720-09,42,,				AKM 9/27
84	22240926a-84	L2454380-01,42,,				AKM 9/27
85	22240926a-85	L2454380-02,42,,			jag	AKM 9/27
86	22240926a-86	WG1976232-1,42,, mcp				AKM 9/27
87	22240926a-87	WG1976232-2,42,, mcp				AKM 9/27
88	22240926a-88	WG1976232-3,42,, mcp				AKM 9/27
89	22240926a-89	L2454348-01,42,,,R3E mcp				AKM 9/27
90	22240926a-90	L2454348-02,42,,,R3E mcp				AKM 9/27

Dep.: PEST
Inst: PEST_22
Date: **09/26/24**
Run: a

Method
GC: herb

Seq: wg1976540
IS: pp11738

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
91	22240926a-91	L2454348-03,42,,,R3E mcp				AKM 9/27
92	22240926a-92	L2454348-04,42,,,R3E mcp				AKM 9/27
93	22240926a-93	L2454348-05,42,,,R3E mcp				AKM 9/27
94	22240926a-94	herb11705 15% 12:43				AKM 9/27
95	22240926a-95	L2454348-06,42,,,R3E mcp				AKM 9/27
96	22240926a-96	L2454348-07,42,,,R3E mcp				
97	22240926a-97	L2454348-08,42,,,R3E mcp				
98	22240926a-98	L2454348-09,42,,,R3E mcp				
99	22240926a-99	L2454348-10,42,,,R3E mcp			peg	

Dep.: PEST
Inst: PEST_22
Date: **09/28/24**
Run: a

Method
GC: herb

Seq: wg1977565
IS: pp11738

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	22240928a-01	herb11705 15% 10:27				JAG 9/28
2	22240928a-02	L2454239-01,42,,				MMG 9/29
3	22240928a-03	L2454239-02,42,,				MMG 9/29
4	22240928a-04	L2454239-03,42,,				MMG 9/29
5	22240928a-05	L2454352-01,42,,				MMG 9/29
6	22240928a-06	L2454546-01,42,,				MMG 9/29
7	22240928a-07	L2454546-02,42,,				MMG 9/29
8	22240928a-08	L2454546-03,42,,				MMG 9/29
9	22240928a-09	L2455306-01,42,,,R3E				MMG 9/29
10	22240928a-10	L2454925-06,42,,,R3E				MMG 9/29
11	22240928a-11	L2454925-08,42,,,R3E	629			MMG 9/29
12	22240928a-12	herb11705 15%, 14:39				MMG 9/29
13	22240928a-13	L2455337-23,42,,,R3E mcp				MMG 9/29
14	22240928a-14	L2454603-01,42,,,R3E mcp				MMG 9/29
15	22240928a-15	L2454603-07,42,,,R3E mcp				MMG 9/29
16	22240928a-16	L2454603-08,42,,,R3E mcp				MMG 9/29
17	22240928a-17	L2454603-14,42,,,R3E mcp				MMG 9/29
18	22240928a-18	L2454603-15,42,,,R3E mcp				MMG 9/29
19	22240928a-19	L2454603-16,42,,,R3E mcp				MMG 9/29
20	22240928a-20	L2454603-17,42,,,R3E mcp				MMG 9/29
21	22240928a-21	L2454603-18,42,,,R3E mcp				MMG 9/29
22	22240928a-22	L2454805-02,42,, mcp				MMG 9/29
23	22240928a-23	herb11705 15%, 18:04				MMG 9/29
24	22240928a-24	WG1976799-1,42,, mcp				MMG 9/29
25	22240928a-25	WG1976799-2,42,, mcp				MMG 9/29
26	22240928a-26	WG1976799-3,42,, mcp	17			MMG 9/29
27	22240928a-27	L2455337-01,42,,,R3E mcp				MMG 9/29
28	22240928a-28	L2455337-02,42,,,R3E mcp				MMG 9/29
29	22240928a-29	L2455337-03,42,,,R3E mcp				MMG 9/29
30	22240928a-30	L2455337-04,42,,,R3E mcp				MMG 9/29
31	22240928a-31	L2455337-05,42,,,R3E mcp				MMG 9/29
32	22240928a-32	L2455337-06,42,,,R3E mcp				MMG 9/29
33	22240928a-33	L2455337-07,42,,,R3E mcp				MMG 9/29
34	22240928a-34	L2455337-08,42,,,R3E mcp				MMG 9/29
35	22240928a-35	L2455337-09,42,,,R3E mcp				MMG 9/29
36	22240928a-36	L2455337-10,42,,,R3E mcp				MMG 9/29
37	22240928a-37	herb11705 15% 22:24				MMG 9/29
38	22240928a-38	L2455337-11,42,,,R3E mcp				MMG 9/29
39	22240928a-39	L2455337-12,42,,,R3E mcp				MMG 9/29
40	22240928a-40	L2455337-13,42,,,R3E mcp				MMG 9/29
41	22240928a-41	L2455337-14,42,,,R3E mcp				MMG 9/29
42	22240928a-42	L2455337-15,42,,,R3E mcp				MMG 9/29
43	22240928a-43	L2455337-16,42,,,R3E mcp				MMG 9/29
44	22240928a-44	L2455337-17,42,,,R3E mcp				MMG 9/29
45	22240928a-45	L2455337-18,42,,,R3E mcp				MMG 9/29

Dep.: PEST
Inst: PEST_22
Date: **09/28/24**
Run: a

Method
GC: herb

Seq: wg1977565
IS: pp11738

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
46	22240928a-46	L2455337-19,42,,,R3E mcp				MMG 9/29
47	22240928a-47	L2455337-20,42,,,R3E mcp				MMG 9/29
48	22240928a-48	herb11705 15%, 1:48				MMG 9/29
49	22240928a-49	WG1976785-1,42,, 787				
50	22240928a-50	WG1976785-2,42,, 787				
51	22240928a-51	WG1976785-3,42,, 787				
52	22240928a-52	L2454992-01,42,,				
53	22240928a-53	L2455334-01,42,,				
54	22240928a-54	L2455334-02,42,,				
55	22240928a-55	L2455334-03,42,,				
56	22240928a-56	L2455334-04,42,,				
57	22240928a-57	L2455334-05,42,,				
58	22240928a-58	L2455334-06,42,,				
59	22240928a-59	L2455334-07,42,,				
60	22240928a-60	L2455334-08,42,,				
61	22240928a-61	L2455334-09,42,,				
62	22240928a-62	herb11705				
63	22240928a-63	L2455353-01,42,,				
64	22240928a-64	L2455353-02,42,,				
65	22240928a-65	L2455353-03,42,p				
66	22240928a-66	WG1976785-4,42,, ms				
67	22240928a-67	WG1976785-5,42,, msd				
68	22240928a-68	L2455686-01,42,,,R3C				
69	22240928a-69	L2455686-02,42,,,R3C				
70	22240928a-70	L2455686-03,42,,,R3C				
71	22240928a-71	L2454972-01,42,,			jag	

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 29 2024, 12:24 pm

Work Group: WG1976959 for Department: 2 Organic Preparation

Created: 27-SEP-24 Due: Operator: SHD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2454239-01	SB-1	S	HERB-8151	WATER	DONE	U	0927	0927	S0	Amber-A1
L2454239-02	DUPLICATE	S	HERB-8151	WATER	DONE	U	0927	0927	S0	Amber-A1
L2454239-03	EQUIPMENT BLANK	S	HERB-8151	WATER	DONE	U	0927	0927	S0	Amber-A1
L2454352-01	SCDOH-DR	S	HERB-8151	WATER	DONE	U	0927	0927	S0	Amber-A1
WG1976959-1	Laboratory Method Bl	S	HERB-8151	WATER	DONE	U				
WG1976959-2	Laboratory Control S	S	HERB-8151	WATER	DONE	U				
WG1976959-3	LCS Duplicate	S	HERB-8151	WATER	DONE	U				

Comments:

WG1976959-3 WG1976959-2

ORGANIC ELN REPORT

Workgroup: WG1976959

Prep Method: EPA 8151A
Solvent Type: Diethyl ether **Lot #:** 24050143
Surrogate Type: Herbicide **Lot #:** PP11710BC-012625
Spike Type: Herbicides **Lot #:** PP11709AD-012525
Spike Verify by: SHD
Lims Spikelot: HERB8151

Additional Reagents/Stds

12N H2SO4	12A091224
25% NaOH	Na091024
Acidified Na2SO4	AS092624
DCM	EJ089
Diethyl ether	24050143
Na2S2O3	NA
NaCl	24C2556110

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Diethyl ether
Lot #: 24050143

Additional Reagents/Stds

Acidified Na2SO4	AS092724
Diazomethane	D092724
Hexane	EJ061
Isooctane	STBK8849
Methanol	63054
Silicic Acid	MKCL9565

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol ml	Ph	Trc Check	Surr Amt ml	Spike Amt ml	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume ml	Methylation Date	ml ml	Conc Unit
L2454239-01 SAMP	09/27/24 02:18	Samy Dakkash	1000	>12, <2	-	.5		09/27/24 02:30	09/27/24 04:00	09/27/24 10:15	Michael Daring	0.5	09/27/24 12:05	10	G&J, N#7
L2454239-02 SAMP	09/27/24 02:18	Samy Dakkash	1000	>12, <2	-	.5		09/27/24 02:30	09/27/24 04:00	09/27/24 10:15	Michael Daring	0.5	09/27/24 12:05	10	G&J, N#7
L2454239-03 SAMP	09/27/24 02:18	Samy Dakkash	1000	>12, <2	-	.5		09/27/24 02:30	09/27/24 04:00	09/27/24 10:15	Michael Daring	0.5	09/27/24 12:05	10	G&J, N#7
L2454352-01 SAMP	09/27/24 02:18	Samy Dakkash	1000	>12, <2	-	.5		09/27/24 02:30	09/27/24 04:00	09/27/24 10:15	Michael Daring	0.5	09/27/24 12:05	10	G&J, N#7
WG1976959-1 BLANK	09/27/24 02:18 **WG1976958**	Samy Dakkash	1000	>12, <2	-	.5		09/27/24 02:30	09/27/24 04:00	09/27/24 10:15	Michael Daring	0.5	09/27/24 12:05	10	G&J, N#7

Reported: 29-SEP-24 12:24 PM

ORGANIC ELN REPORT

Workgroup: WG1976959

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol **ml**	Ph	Trc Check	Surr Amt **ml**	Spike Amt **ml**	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume **ml**	Methylation Date	ml **ml**	Conc Unit
WG1976959-2 LCS	09/27/24 02:18	Samy Dakkash	1000	>12, <2	-	.5	.5	09/27/24 02:30	09/27/24 04:00	09/27/24 10:15	Michael Daring	0.5	09/27/24 12:05	10	G&J, N#7
WG1976959-3 LCSD	09/27/24 02:18	Samy Dakkash	1000	>12, <2	-	.5	.5	09/27/24 02:30	09/27/24 04:00	09/27/24 10:15	Michael Daring	0.5	09/27/24 12:05	10	G&J, N#7

Reported: 29-SEP-24 12:24 PM

GC Extractable Analysis Polychlorinated Biphenyls (PCB)

Aroclor QC Summary

Surrogate Recovery Summary
Form 2
PCBs

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

Lab Number: L2454352
Project Number: 2232.0006Y005
Matrix: Water

GC Column 1: CLP-Pesticide
GC Column 2: CLP-PesticideII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
SCDOH-DR (L2454352-01)	88	76	90	77			0
WG1976835-1BLANK	75	66	75	69			0
WG1976835-2LCS	80	67	85	75			0
WG1976835-3LCSD	80	67	84	74			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1976835-2 **Analysis Date** : 09/27/24 07:23	**File ID**	: P2240927a-09
LCSD Sample ID	: WG1976835-3 **Analysis Date** : 09/27/24 07:32	**File ID**	: P2240927a-10

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	1.78	1.40	78	1.78	1.46	82	4	40-140	50
Aroclor 1260	1.78	1.46	82	1.78	1.47	82	1	40-140	50

Method Blank Summary
Form 4
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1976835-1	**Lab File ID**	: P2240927a-44
Matrix	: WATER	**Extraction Date**	: 09/26/24
Sulfur Cleanup	: Y		
Analysis Date (1)	: 09/27/24 15:17	**Analysis Date (2)**	: 09/27/24 15:17
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1976835-2LCS	WG1976835-2	09/27/24 07:23	09/27/24 07:23
WG1976835-3LCSD	WG1976835-3	09/27/24 07:32	09/27/24 07:32
SCDOH-DR	L2454352-01	09/27/24 16:19	09/27/24 16:19

Analytical Sequence
Form 8b
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST2	**Initial Calib. Date(s)**	: 09/16/24 09/16/24

Client ID	Lab ID	Date/Time Analyzed
1016/1260 L1 (4ug/L)	R1876926-1	09/16/24 15:29
1016/1260 L2 (10ug/L)	R1876926-2	09/16/24 15:38
1016/1260 L3 (20ug/L)	R1876926-3	09/16/24 15:47
1016/1260 L4 (30ug/L)	R1876926-4	09/16/24 15:55
1016/1260 L5 (40ug/L)	R1876926-5	09/16/24 16:04
1016/1260 L6 (50ug/L)	R1876926-6	09/16/24 16:13
1016/1260 L7 (100ug/L)	R1876926-8	09/16/24 16:22
1016/1260 L8 (250ug/L)	R1876926-7	09/16/24 16:30
1016/1260 L9 (500ug/L)	R1876926-9	09/16/24 16:39
1016/1260 L10 (1000ug/L)	R1876926-10	09/16/24 16:48
R1876926-11 ICV	R1876926-11	09/16/24 16:56
1221/1254 L8 (250ug/L)	R1876926-12	09/16/24 17:14
1248 L8 (250ug/L)	R1876926-13	09/16/24 17:23
1232/1262 L8 (250ug/L)	R1876926-14	09/16/24 17:32
1242/1268 L8 (250ug/L)	R1876926-15	09/16/24 17:41
R1876926-16 ICV	R1876926-16	09/16/24 17:49
R1876926-17 ICV	R1876926-17	09/16/24 17:58
R1876926-19 ICV	R1876926-19	09/16/24 18:07
R1876926-18 ICV	R1876926-18	09/16/24 18:15
WG1977023-1 CCAL	WG1977023-1	09/27/24 05:57
WG1976835-2 LCS	WG1976835-2	09/27/24 07:23
WG1976835-3 LCSD	WG1976835-3	09/27/24 07:32
WG1977023-5 CCAL	WG1977023-5	09/27/24 12:25
WG1977023-6 CCAL	WG1977023-6	09/27/24 13:29
WG1976835-1 BLANK	WG1976835-1	09/27/24 15:17
SCDOH-DR	L2454352-01	09/27/24 16:19

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

PCB - EPA 8082A (WATER)

Holding Time: 365 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	0.25	0.0156	ug/l	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	0.25	0.0221	ug/l	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	0.25	0.046	ug/l	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	0.25	0.0362	ug/l	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	0.25	0.0455	ug/l	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	0.25	0.0168	ug/l	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	0.25	0.0344	ug/l	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	0.25	0.033	ug/l	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	0.25	0.0317	ug/l	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	0.25	0.0156	ug/l				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

PCB - EPA 8082A (SOIL)

Holding Time: 365 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	50	4.44	ug/kg	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	50	5.01	ug/kg	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	50	10.6	ug/kg	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	50	6.74	ug/kg	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	50	7.5	ug/kg	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	50	5.47	ug/kg	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	50	9.24	ug/kg	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	50	6.35	ug/kg	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	50	5.18	ug/kg	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	50	4.44	ug/kg				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

Aroclor Sample Data

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 16:19
Sample Matrix	: WATER	**Date Extracted**	: 09/27/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240927a-51	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976835-1	**Date Collected**	: NA
Client ID	: WG1976835-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/27/24 15:17
Sample Matrix	: WATER	**Date Extracted**	: 09/26/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240927a-44	**Analyst**	: RMP
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	0.114	0.071	0.061	
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	0.114	0.071	0.061	

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-51.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 16:19
Operator : pest2:emr
Sample : L2454352-01,42,,
Misc : wg1977023,WG1976835,ICAL21500 (Sig #1); wg1977023,WG1976029,ICAL21500 (Sig #2)
ALS Vial : 51 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 29 13:26:50 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-31.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.184	1.250	217.5E6	277.7E6	25.000M4	25.000
	Standard Area 1 : #1 = 187110407				Recovery = 116.22%		
	Standard Area 1 : #2 = 283066218				Recovery = 98.10%		
14) i	2154_1br2nb	1.184	1.250	217.5E6	277.7E6	25.000M4	25.000
23) i	4268_1br2nb	1.184	1.250	217.5E6	277.7E6	25.000M4	25.000
34) i	1248_1br2nb	1.184	1.250	217.5E6	277.7E6	25.000M4	25.000
40) i	3262_1br2nb	1.184	1.250	217.5E6	277.7E6	25.000M4	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.465	1.618	222.9E6	277.9E6	17.662	15.271
	Spiked Amount 20.000	Range 30 - 150			Recovery = 88.31%		76.36%
3) s	Decachlorobi	4.013	4.516	179.9E6	189.3E6	17.926	15.477
	Spiked Amount 20.000	Range 30 - 150			Recovery = 89.63%		77.39%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-51.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 16:19
Operator : pest2:emr
Sample : L2454352-01,42,,
Misc : wg1977023,WG1976835,ICAL21500 (Sig #1); wg1977023,WG1976029,ICAL21500 (Sig #2)
ALS Vial : 51 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 29 13:26:50 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-31.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D.	N.D.
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-51.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 16:19
Operator : pest2:emr
Sample : L2454352-01,42,,
Misc : wg1977023,WG1976835,ICAL21500 (Sig #1); wg1977023,WG1976029,ICAL21500 (Sig #2)
ALS Vial : 51 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 29 13:26:50 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-31.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-51.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 16:19
Operator : pest2:emr
Sample : L2454352-01,42,,
Misc : wg1977023,WG1976835,ICAL21500 (Sig #1); wg1977023,WG1976029,ICAL21500 (Sig #2)
ALS Vial : 51 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 29 13:26:50 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-31.D
Sub List : Default - All compounds listed

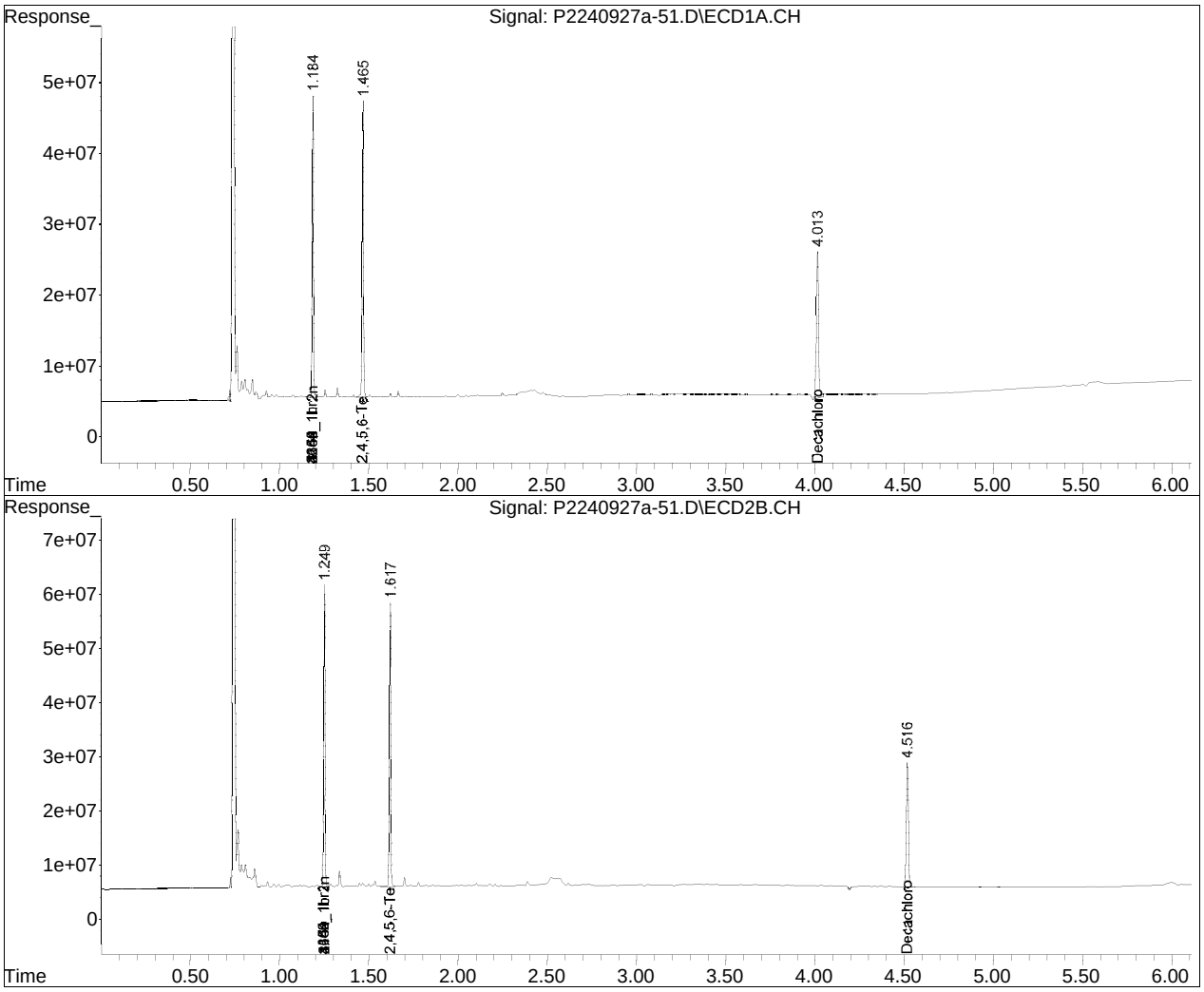
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

Sub List : Default - All compounds listedP2240927a-31.D•

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-51.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 16:19
Operator : pest2:emr
Sample : L2454352-01,42,,
Misc : wg1977023,WG1976835,ICAL21500 (Sig #1); wg1977023,WG1976029,ICAL21
ALS Vial : 51 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 29 13:26:50 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

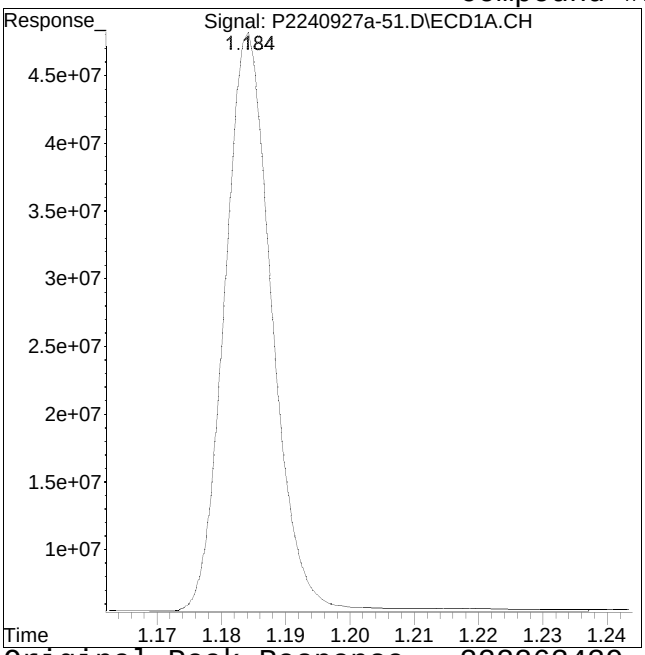
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

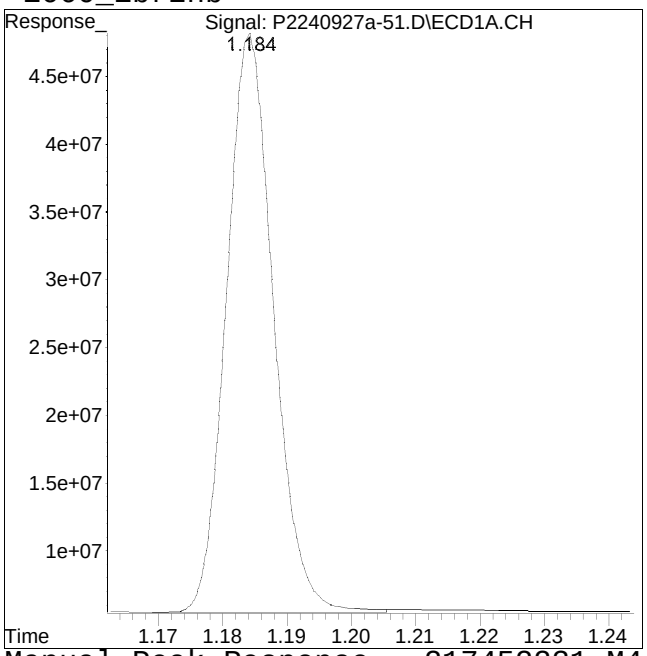


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-51.D Operator : pest2:emr
Date Inj'd : 9/27/2024 16:19 Instrument : Pest 2
Sample : L2454352-01,42,, Quant Date : 9/29/2024 1:26 pm

Compound #1: 1660_1br2nb





Original Peak Response = 222263439 Manual Peak Response = 217452231 M4
M4 = Poor automated baseline construction.

Aroclor Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21500**
Calibration dates	**: 09/16/24 15:29 09/16/24 17:41**		

Calibration Files

1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D

6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------											
2)	s	2,4,5,6-Tetra	1.490	1.424	1.460	1.428	1.400	1.446	1.417	1.478	1.494	1.469	1.451	2.24
3)	s	Decachlorobip	1.362	1.224	1.181	1.174	1.164	1.157	1.107	1.080	1.054	1.035	1.154	8.22
4)	l1	1016-1	0.029	0.030	0.029	0.028	0.027	0.028	0.026	0.026	0.025	0.023	0.027	7.47
5)	l1	1016-2	0.064	0.063	0.064	0.064	0.061	0.059	0.056	0.055	0.053	0.050	0.059	8.57
6)	l1	1016-3	0.126	0.112	0.123	0.118	0.113	0.118	0.113	0.116	0.116	0.112	0.117	3.99
7)	l1	1016-4	0.052	0.047	0.055	0.051	0.049	0.049	0.046	0.049	0.048	0.046	0.049	5.95
8)	l1	1016-5	0.063	0.048	0.062	0.057	0.056	0.056	0.051	0.051	0.050	0.048	0.054	9.85
9)	l2	1260-1	0.083	0.079	0.077	0.075	0.074	0.076	0.072	0.071	0.070	0.069	0.075	5.92
10)	l2	1260-2	0.123	0.119	0.117	0.114	0.114	0.116	0.111	0.108	0.107	0.105	0.113	4.92
11)	l2	1260-3	0.068	0.067	0.069	0.069	0.070	0.071	0.068	0.069	0.068	0.067	0.069	1.76
12)	l2	1260-4	0.159	0.156	0.150	0.148	0.148	0.149	0.147	0.150	0.149	0.149	0.151	2.68
13)	l2	1260-5	0.118	0.110	0.110	0.109	0.105	0.107	0.104	0.104	0.103	0.104	0.108	4.14
14)	i	2154_1br2nb	----------ISTD----------											
15)	l3	1221-1								0.015			0.015	0.00
16)	l3	1221-2								0.009			0.009	0.00
17)	l3	1221-3								0.037			0.037	0.00
18)	l4	1254-1								0.052			0.052	0.00
19)	l4	1254-2								0.093			0.093	0.00
20)	l4	1254-3								0.101			0.101	0.00
21)	l4	1254-4								0.071			0.071	0.00
22)	l4	1254-5								0.099			0.099	0.00
23)	i	4268_1br2nb	----------ISTD----------											
24)	l6	1242-1								0.021			0.021	0.00
25)	l6	1242-2								0.046			0.046	0.00
26)	l6	1242-3								0.096			0.096	0.00
27)	l6	1242-4								0.040			0.040	0.00
28)	l6	1242-5								0.032			0.032	0.00
29)	l9	1268-1								0.209			0.209	0.00
30)	l9	1268-2								0.189			0.189	0.00
31)	l9	1268-3								0.154			0.154	0.00
32)	l9	1268-4								0.067			0.067	0.00
33)	l9	1268-5								0.467			0.467	0.00
34)	i	1248_1br2nb	----------ISTD----------											
35)	l7	1248-1								0.060			0.060	0.00
36)	l7	1248-2								0.078			0.078	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21500**
Calibration dates	**: 09/16/24 15:29 09/16/24 17:41**		

Calibration Files

1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D

6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

	Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
37) l7	1248-3								0.070			0.070	0.00
38) l7	1248-4								0.060			0.060	0.00
39) l7	1248-5								0.056			0.056	0.00
40) i	3262_1br2nb	----------ISTD----------											
41) l5	1232-1								0.029			0.029	0.00
42) l5	1232-2								0.027			0.027	0.00
43) l5	1232-3								0.055			0.055	0.00
44) l5	1232-4								0.023			0.023	0.00
45) l5	1232-5								0.017			0.017	0.00
46) l8	1262-1								0.083			0.083	0.00
47) l8	1262-2								0.105			0.105	0.00
48) l8	1262-3								0.091			0.091	0.00
49) l8	1262-4								0.185			0.185	0.00
50) l8	1262-5								0.059			0.059	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21500**
Calibration dates	**: 09/16/24 15:29 09/16/24 17:41**		

Signal #2 Calibration Files

1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------											
2)	s	2,4,5,6-Tetra	1.800	1.723	1.775	1.642	1.617	1.647	1.569	1.541	1.557	1.512	1.638	6.08
3)	s	Decachlorobip	1.382	1.282	1.205	1.148	1.113	1.087	1.044	0.934	0.918	0.900	1.101	14.52
4)	l1	1016-1	0.036	0.034	0.033	0.032	0.030	0.030	0.030	0.027	0.026	0.024	0.030	12.95
5)	l1	1016-2	0.069	0.069	0.072	0.069	0.070	0.070	0.067	0.059	0.056	0.052	0.065	10.57
6)	l1	1016-3	0.153	0.145	0.143	0.137	0.131	0.132	0.128	0.118	0.114	0.109	0.131	10.79
7)	l1	1016-4	0.063	0.057	0.058	0.055	0.053	0.054	0.052	0.047	0.045	0.043	0.053	11.94
8)	l1	1016-5	0.049	0.046	0.045	0.042	0.042	0.043	0.044	0.039	0.036	0.035	0.042	10.65
9)	l2	1260-1	0.094	0.093	0.088	0.088	0.083	0.090	0.078	0.072	0.069	0.066	0.082	12.52
10)	l2	1260-2	0.113	0.111	0.105	0.101	0.097	0.105	0.093	0.085	0.082	0.079	0.097	12.54
11)	l2	1260-3	0.094	0.090	0.084	0.081	0.080	0.084	0.078	0.069	0.068	0.065	0.079	12.09
12)	l2	1260-4	0.174	0.171	0.165	0.162	0.158	0.160	0.151	0.139	0.138	0.135	0.155	8.92
13)	l2	1260-5	0.121	0.127	0.118	0.114	0.112	0.114	0.112	0.097	0.096	0.094	0.111	10.22
14)	i	2154_1br2nb	----------ISTD----------											
15)	l3	1221-1								0.017			0.017	0.00
16)	l3	1221-2								0.011			0.011	0.00
17)	l3	1221-3								0.040			0.040	0.00
18)	l4	1254-1								0.062			0.062	0.00
19)	l4	1254-2								0.073			0.073	0.00
20)	l4	1254-3								0.109			0.109	0.00
21)	l4	1254-4								0.073			0.073	0.00
22)	l4	1254-5								0.101			0.101	0.00
23)	i	4268_1br2nb	----------ISTD----------											
24)	l6	1242-1								0.021			0.021	0.00
25)	l6	1242-2								0.048			0.048	0.00
26)	l6	1242-3								0.095			0.095	0.00
27)	l6	1242-4								0.039			0.039	0.00
28)	l6	1242-5								0.031			0.031	0.00
29)	l9	1268-1								0.190			0.190	0.00
30)	l9	1268-2								0.169			0.169	0.00
31)	l9	1268-3								0.141			0.141	0.00
32)	l9	1268-4								0.062			0.062	0.00
33)	l9	1268-5								0.399			0.399	0.00
34)	i	1248_1br2nb	----------ISTD----------											
35)	l7	1248-1								0.062			0.062	0.00
36)	l7	1248-2								0.043			0.043	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21500**
Calibration dates	**: 09/16/24 15:29 09/16/24 17:41**		

Signal #2 Calibration Files

1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

	Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
37) l7	1248-3								0.053			0.053	0.00
38) l7	1248-4								0.060			0.060	0.00
39) l7	1248-5								0.067			0.067	0.00
40) i	3262_1br2nb	----------ISTD----------											
41) l5	1232-1								0.030			0.030	0.00
42) l5	1232-2								0.031			0.031	0.00
43) l5	1232-3								0.060			0.060	0.00
44) l5	1232-4								0.024			0.024	0.00
45) l5	1232-5								0.018			0.018	0.00
46) l8	1262-1								0.073			0.073	0.00
47) l8	1262-2								0.101			0.101	0.00
48) l8	1262-3								0.091			0.091	0.00
49) l8	1262-4								0.174			0.174	0.00
50) l8	1262-5								0.062			0.062	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------											
2)	s	2,4,5,6-Tetra...	1.490	1.424	1.460	1.428	1.400	1.446	1.417	1.478	1.494	1.469	1.451	2.24
3)	s	Decachlorobip...	1.362	1.224	1.181	1.174	1.164	1.157	1.107	1.080	1.054	1.035	1.154	8.22
4)	l1	1016-1	0.029	0.030	0.029	0.028	0.027	0.028	0.026	0.026	0.025	0.023	0.027	7.47
5)	l1	1016-2	0.064	0.063	0.064	0.064	0.061	0.059	0.056	0.055	0.053	0.050	0.059	8.57
6)	l1	1016-3	0.126	0.112	0.123	0.118	0.113	0.118	0.113	0.116	0.116	0.112	0.117	3.99
7)	l1	1016-4	0.052	0.047	0.055	0.051	0.049	0.049	0.046	0.049	0.048	0.046	0.049	5.95
8)	l1	1016-5	0.063	0.048	0.062	0.057	0.056	0.056	0.051	0.051	0.050	0.048	0.054	9.85
9)	l2	1260-1	0.083	0.079	0.077	0.075	0.074	0.076	0.072	0.071	0.070	0.069	0.075	5.92
10)	l2	1260-2	0.123	0.119	0.117	0.114	0.114	0.116	0.111	0.108	0.107	0.105	0.113	4.92
11)	l2	1260-3	0.068	0.067	0.069	0.069	0.070	0.071	0.068	0.069	0.068	0.067	0.069	1.76
12)	l2	1260-4	0.159	0.156	0.150	0.148	0.148	0.149	0.147	0.150	0.149	0.149	0.151	2.68
13)	l2	1260-5	0.118	0.110	0.110	0.109	0.105	0.107	0.104	0.104	0.103	0.104	0.108	4.14
14)	i	2154_1br2nb	----------ISTD----------											
15)	l3	1221-1								0.015			0.015	0.00
16)	l3	1221-2								0.009			0.009	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
17)	l3	1221-3								0.037			0.037	0.00
18)	l4	1254-1								0.052			0.052	0.00
19)	l4	1254-2								0.093			0.093	0.00
20)	l4	1254-3								0.101			0.101	0.00
21)	l4	1254-4								0.071			0.071	0.00
22)	l4	1254-5								0.099			0.099	0.00
23)	i	4268_1br2nb	----------ISTD----------											
24)	l6	1242-1								0.021			0.021	0.00
25)	l6	1242-2								0.046			0.046	0.00
26)	l6	1242-3								0.096			0.096	0.00
27)	l6	1242-4								0.040			0.040	0.00
28)	l6	1242-5								0.032			0.032	0.00
29)	l9	1268-1								0.209			0.209	0.00
30)	l9	1268-2								0.189			0.189	0.00
31)	l9	1268-3								0.154			0.154	0.00
32)	l9	1268-4								0.067			0.067	0.00
33)	l9	1268-5								0.467			0.467	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
34)	i	1248_1br2nb	----------ISTD----------											
35)	l7	1248-1								0.060			0.060	0.00
36)	l7	1248-2								0.078			0.078	0.00
37)	l7	1248-3								0.070			0.070	0.00
38)	l7	1248-4								0.060			0.060	0.00
39)	l7	1248-5								0.056			0.056	0.00
40)	i	3262_1br2nb	----------ISTD----------											
41)	l5	1232-1								0.029			0.029	0.00
42)	l5	1232-2								0.027			0.027	0.00
43)	l5	1232-3								0.055			0.055	0.00
44)	l5	1232-4								0.023			0.023	0.00
45)	l5	1232-5								0.017			0.017	0.00
46)	l8	1262-1								0.083			0.083	0.00
47)	l8	1262-2								0.105			0.105	0.00
48)	l8	1262-3								0.091			0.091	0.00
49)	l8	1262-4								0.185			0.185	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
50)	l8	1262-5								0.059			0.059	0.00

Signal #2 Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------											
2)	s	2,4,5,6-Tetra...	1.800	1.723	1.775	1.642	1.617	1.647	1.569	1.541	1.557	1.512	1.638	6.08
3)	s	Decachlorobip...	1.382	1.282	1.205	1.148	1.113	1.087	1.044	0.934	0.918	0.900	1.101	14.52
4)	l1	1016-1	0.036	0.034	0.033	0.032	0.030	0.030	0.030	0.027	0.026	0.024	0.030	12.95
5)	l1	1016-2	0.069	0.069	0.072	0.069	0.070	0.070	0.067	0.059	0.056	0.052	0.065	10.57
6)	l1	1016-3	0.153	0.145	0.143	0.137	0.131	0.132	0.128	0.118	0.114	0.109	0.131	10.79
7)	l1	1016-4	0.063	0.057	0.058	0.055	0.053	0.054	0.052	0.047	0.045	0.043	0.053	11.94
8)	l1	1016-5	0.049	0.046	0.045	0.042	0.042	0.043	0.044	0.039	0.036	0.035	0.042	10.65
9)	l2	1260-1	0.094	0.093	0.088	0.088	0.083	0.090	0.078	0.072	0.069	0.066	0.082	12.52
10)	l2	1260-2	0.113	0.111	0.105	0.101	0.097	0.105	0.093	0.085	0.082	0.079	0.097	12.54
11)	l2	1260-3	0.094	0.090	0.084	0.081	0.080	0.084	0.078	0.069	0.068	0.065	0.079	12.09
12)	l2	1260-4	0.174	0.171	0.165	0.162	0.158	0.160	0.151	0.139	0.138	0.135	0.155	8.92

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
13)	l2	1260-5	0.121	0.127	0.118	0.114	0.112	0.114	0.112	0.097	0.096	0.094	0.111	10.22
14)	i	2154_1br2nb	----------ISTD----------											
15)	l3	1221-1								0.017			0.017	0.00
16)	l3	1221-2								0.011			0.011	0.00
17)	l3	1221-3								0.040			0.040	0.00
18)	l4	1254-1								0.062			0.062	0.00
19)	l4	1254-2								0.073			0.073	0.00
20)	l4	1254-3								0.109			0.109	0.00
21)	l4	1254-4								0.073			0.073	0.00
22)	l4	1254-5								0.101			0.101	0.00
23)	i	4268_1br2nb	----------ISTD----------											
24)	l6	1242-1								0.021			0.021	0.00
25)	l6	1242-2								0.048			0.048	0.00
26)	l6	1242-3								0.095			0.095	0.00
27)	l6	1242-4								0.039			0.039	0.00
28)	l6	1242-5								0.031			0.031	0.00
29)	l9	1268-1								0.190			0.190	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
30)	l9	1268-2								0.169			0.169	0.00
31)	l9	1268-3								0.141			0.141	0.00
32)	l9	1268-4								0.062			0.062	0.00
33)	l9	1268-5								0.399			0.399	0.00
34)	i	1248_1br2nb	----------ISTD----------											
35)	l7	1248-1								0.062			0.062	0.00
36)	l7	1248-2								0.043			0.043	0.00
37)	l7	1248-3								0.053			0.053	0.00
38)	l7	1248-4								0.060			0.060	0.00
39)	l7	1248-5								0.067			0.067	0.00
40)	i	3262_1br2nb	----------ISTD----------											
41)	l5	1232-1								0.030			0.030	0.00
42)	l5	1232-2								0.031			0.031	0.00
43)	l5	1232-3								0.060			0.060	0.00
44)	l5	1232-4								0.024			0.024	0.00
45)	l5	1232-5								0.018			0.018	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

	Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
46)	l8 1262-1								0.073			0.073	0.00
47)	l8 1262-2								0.101			0.101	0.00
48)	l8 1262-3								0.091			0.091	0.00
49)	l8 1262-4								0.174			0.174	0.00
50)	l8 1262-5								0.062			0.062	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.183	1.252	223.1E6	252.1E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.464	1.623	3404182	4646960	0.265M4	0.269
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.05%#	0.05%#
3) s	Decachlorobi	4.024	4.542	6221294	7133944	0.584M4	0.584
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.12%#	0.12%#
	Target Compounds						
4) l1	1016-1	1.601	1.822	1029923	1469461	3.981M2	4.440
5) l1	1016-2	1.741	1.992	2300019	2790342	4.056M4	3.950M4
6) l1	1016-3	1.928	2.193	4483244	6158924	4.263	4.314M1
7) l1	1016-4	1.984	2.253	1839001	2560108	4.022	4.457
8) l1	1016-5	2.152	2.463	2234094	1986914	4.476M4	4.427
Sum	1016-1			11886280	14965749	20.798	21.588
Average	1016-1					4.160	4.318
9) l2	1260-1	2.693	3.072	2975268	3811020	4.339M3	4.214
10) l2	1260-2	2.824	3.173	4378607	4567332	4.215M3	4.284
11) l2	1260-3	3.139	3.565	2430624	3790654	3.979M4	4.412

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2	1260-4	3.294	3.694	5691017	7034236	4.216M4	4.209
13) l2	1260-5	3.442	3.894	4203645	4879989	4.289M1	4.038M4
Sum	1260-1			19679161	24083232	NoCal	NoCal D
Average	1260-1					4.208	4.231
15) l3	1221-1	0.000	0.000	0	0	N.D.	N.D.
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D.	N.D.
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D.	N.D.
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D.	N.D.
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D.	N.D.
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D.	N.D.
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D.	N.D.
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D.	N.D.
44) l5	1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

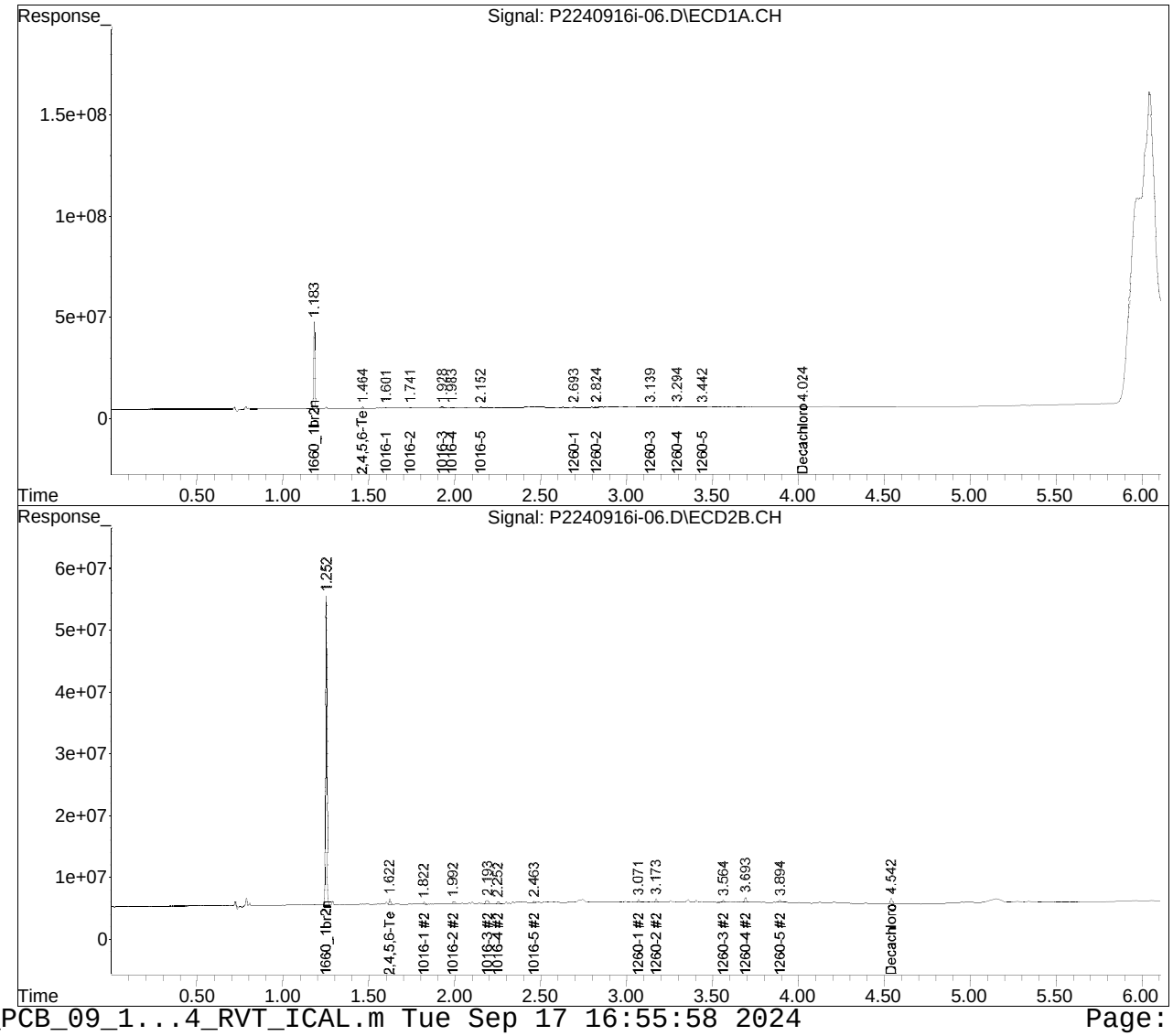
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

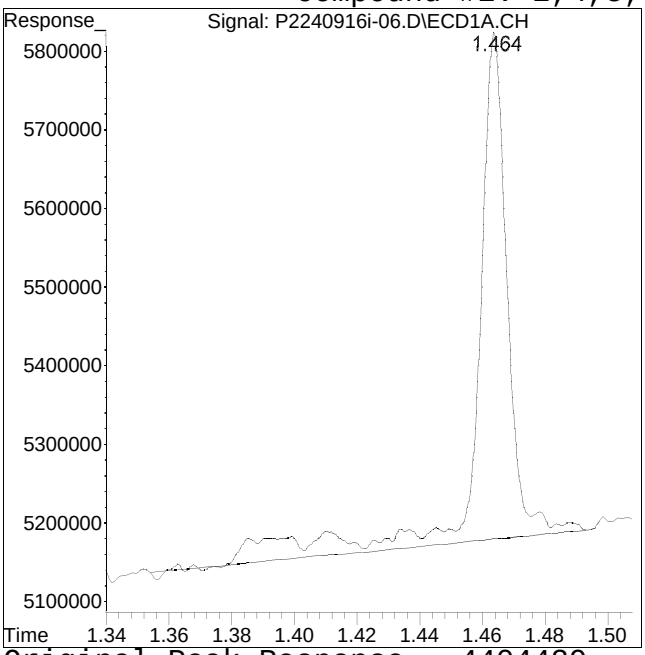
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

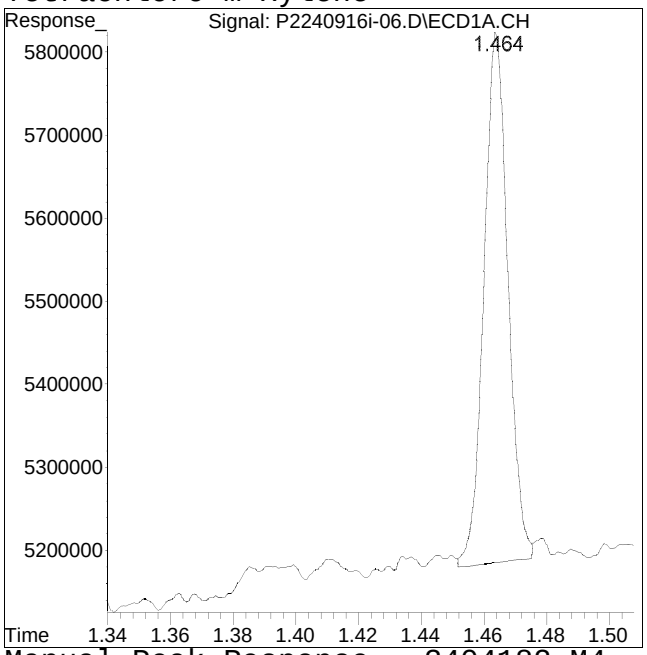


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



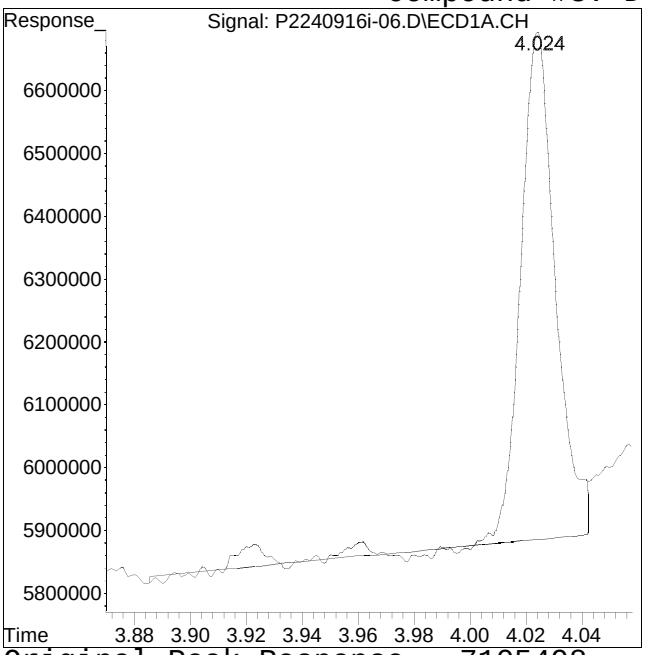


Original Peak Response = 4404429 Manual Peak Response = 3404182 M4
M4 = Poor automated baseline construction.

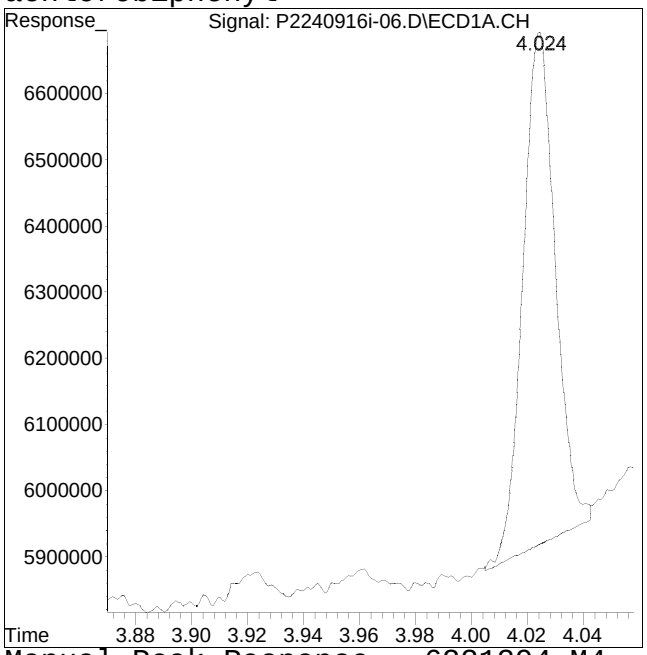
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 7105498



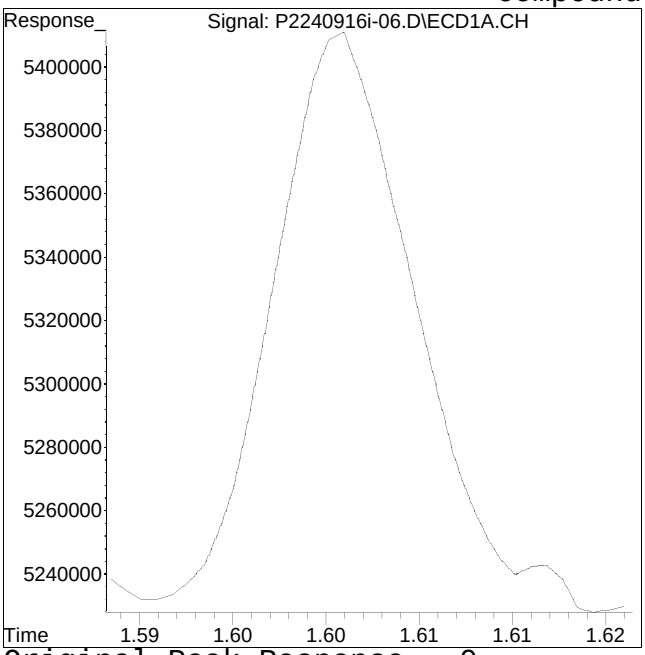
Manual Peak Response = 6221294 M4

M4 = Poor automated baseline construction.

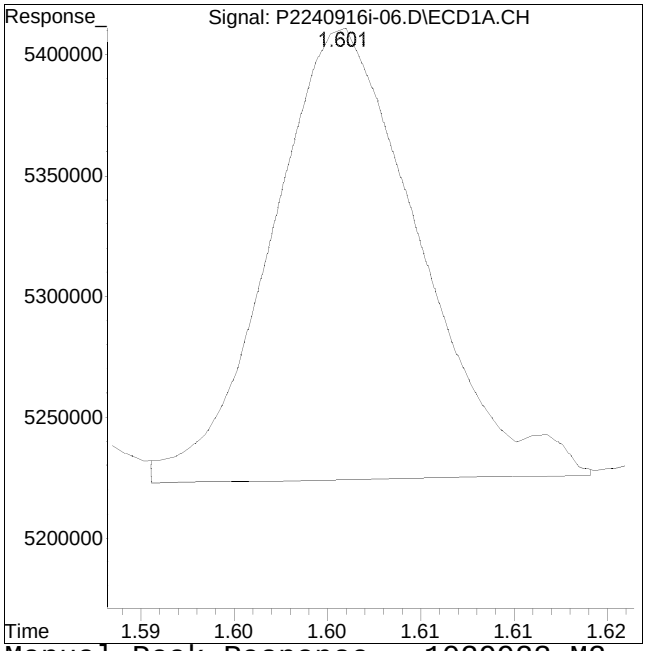
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #4: 1016-1



Original Peak Response = 0



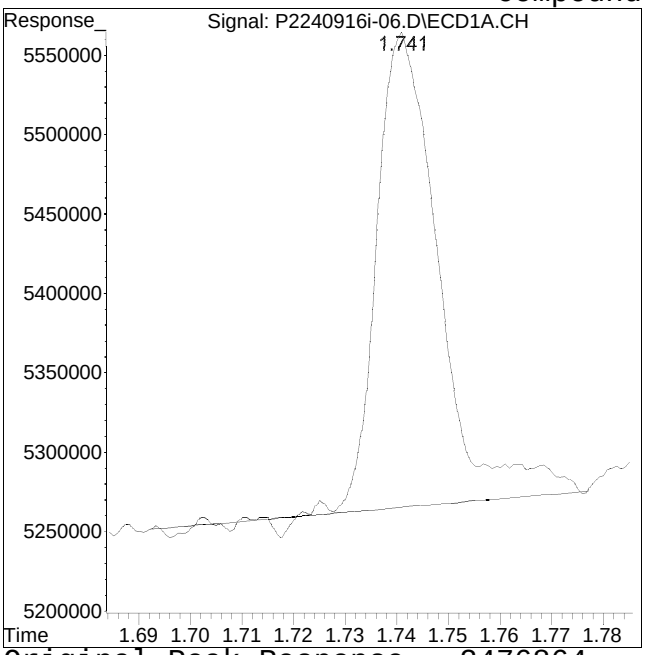
Manual Peak Response = 1029923 M2

M2 = Peak not found by automatic integration algorithm.

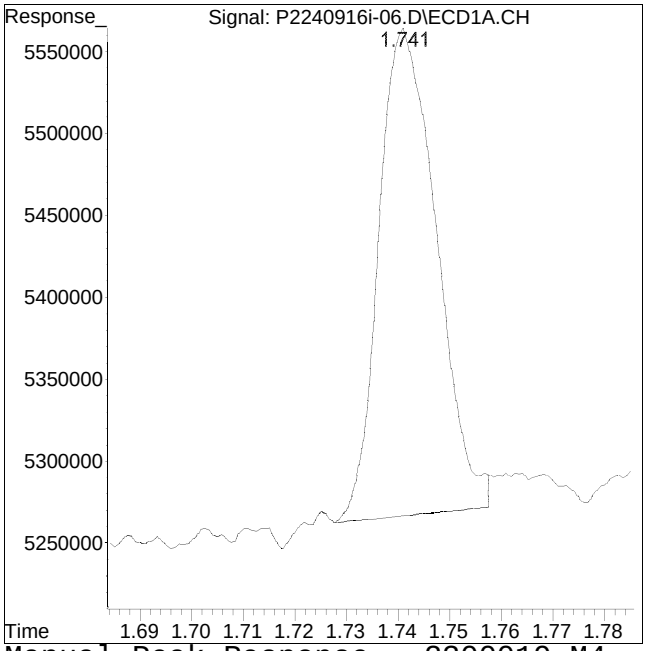
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #5: 1016-2



Original Peak Response = 2476864



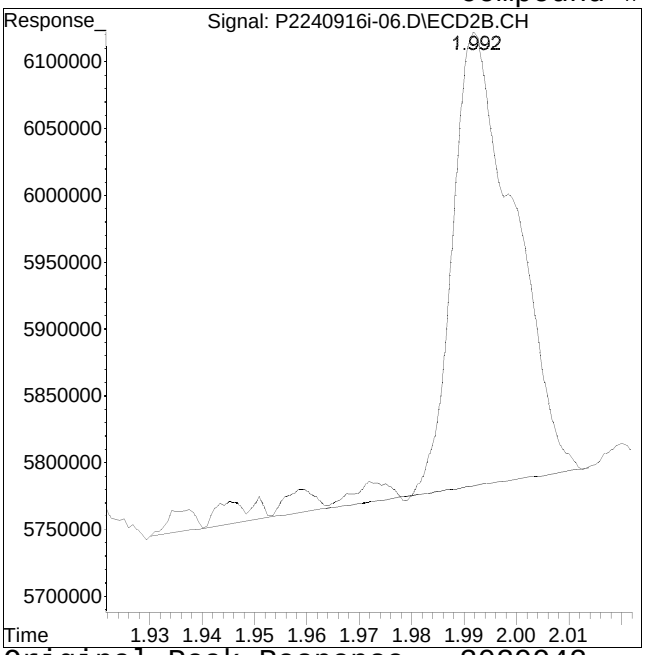
Manual Peak Response = 2300019 M4

M4 = Poor automated baseline construction.

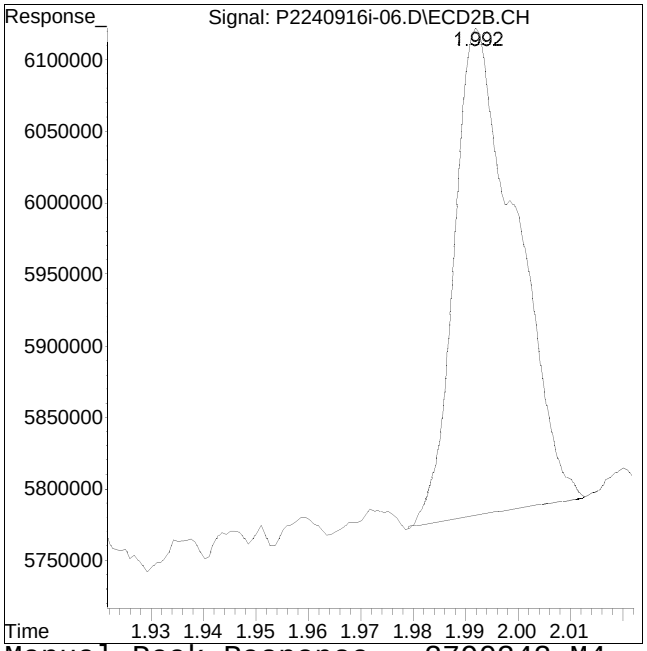
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #56: 1016-2 #2



Original Peak Response = 3029942



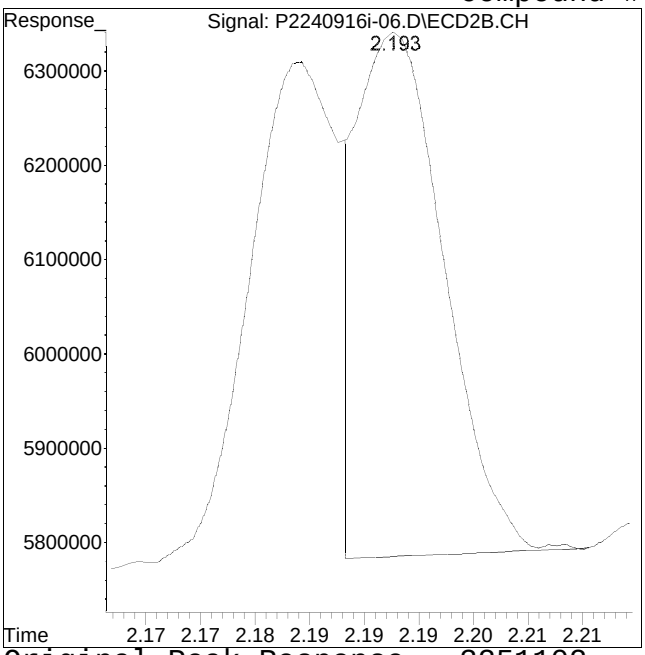
Manual Peak Response = 2790342 M4

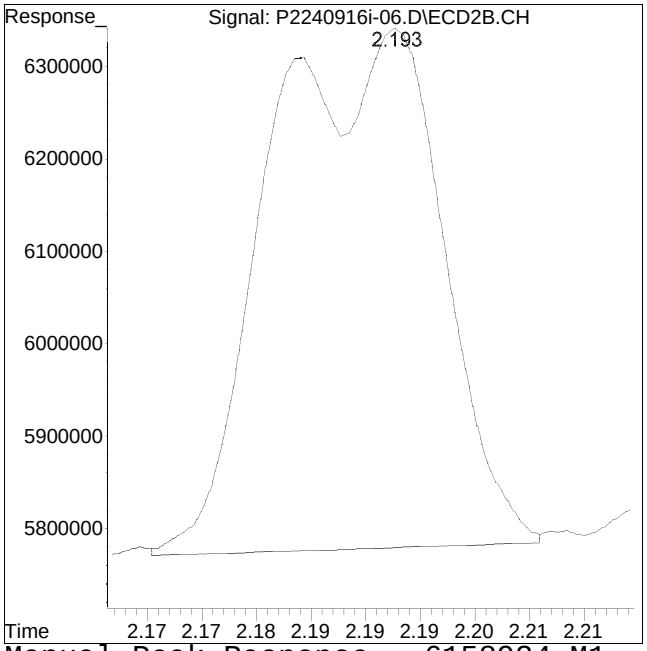
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #57: 1016-3 #2



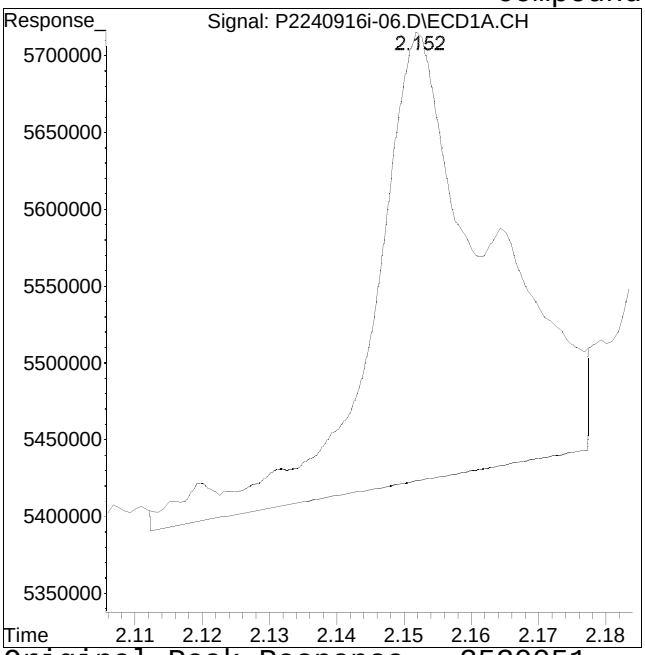


Original Peak Response = 3251102 Manual Peak Response = 6158924 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

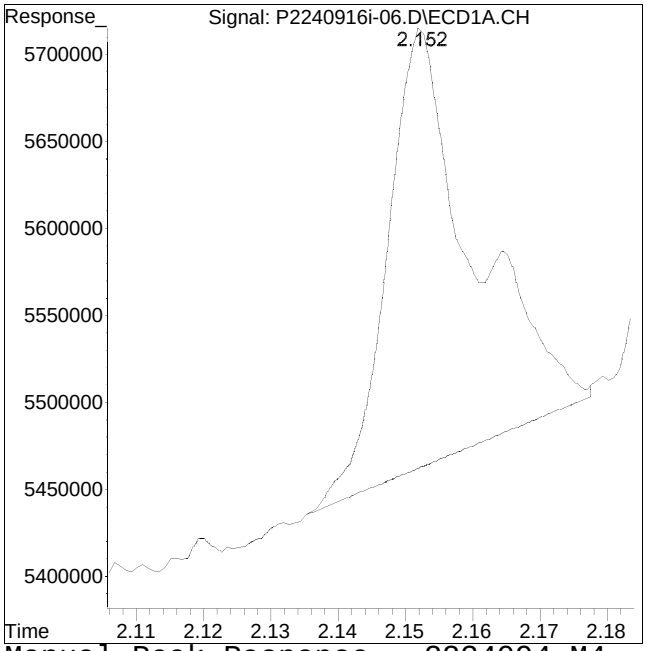
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #8: 1016-5



Original Peak Response = 3530051



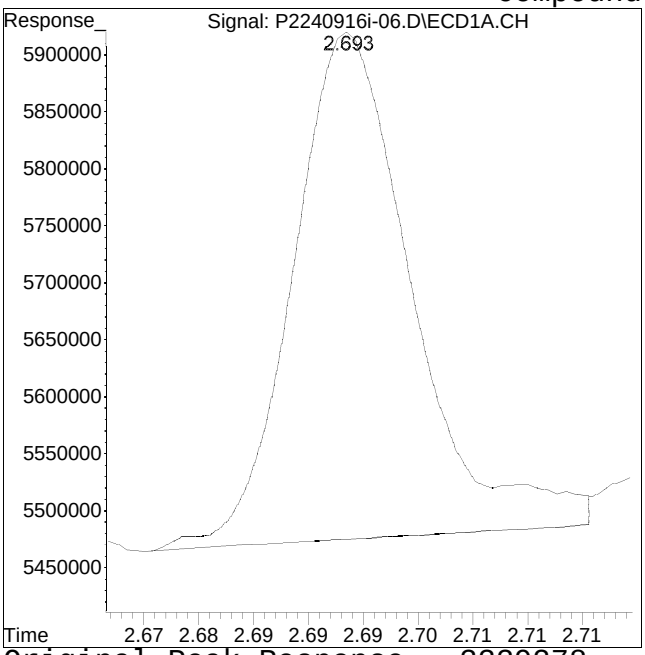
Manual Peak Response = 2234094 M4

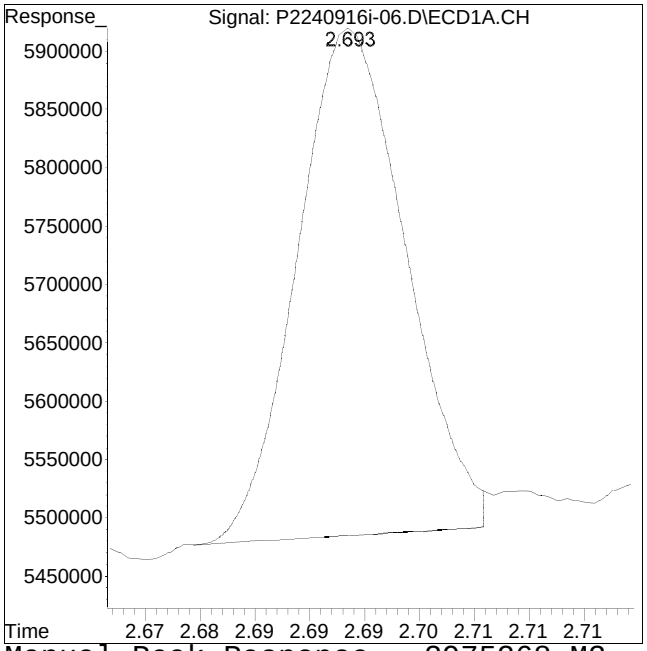
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #9: 1260-1



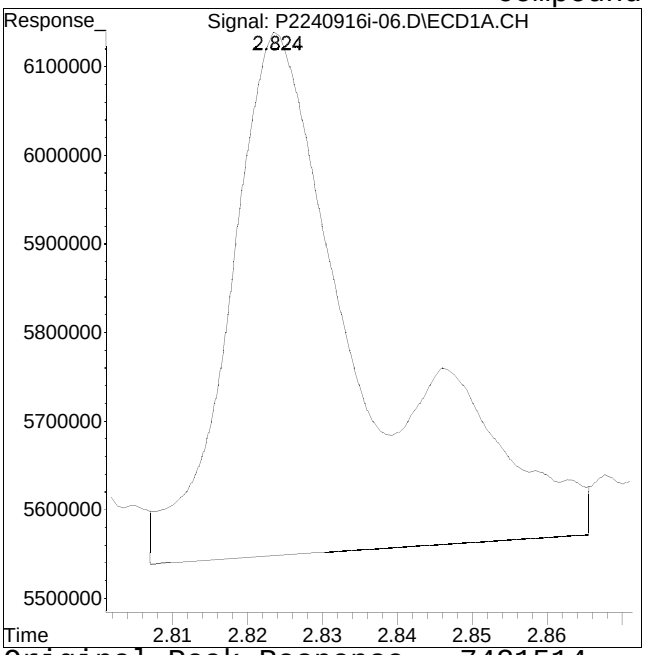


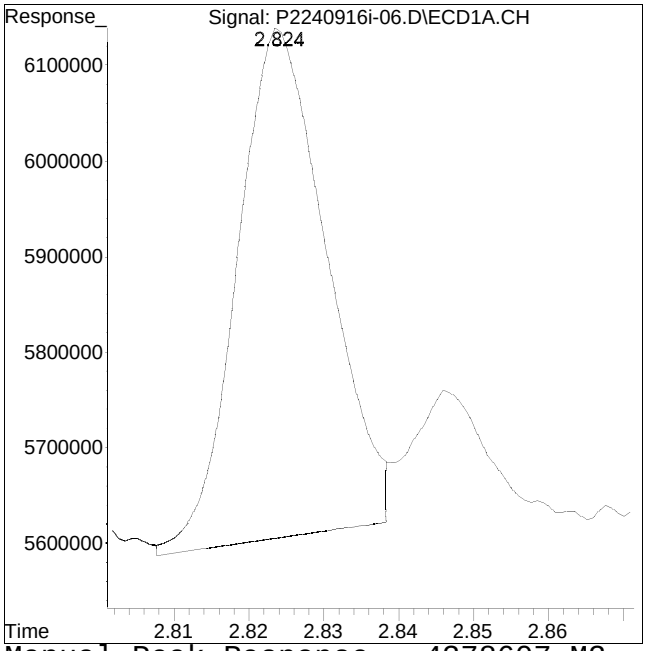
Original Peak Response = 3339278 Manual Peak Response = 2975268 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #10: 1260-2



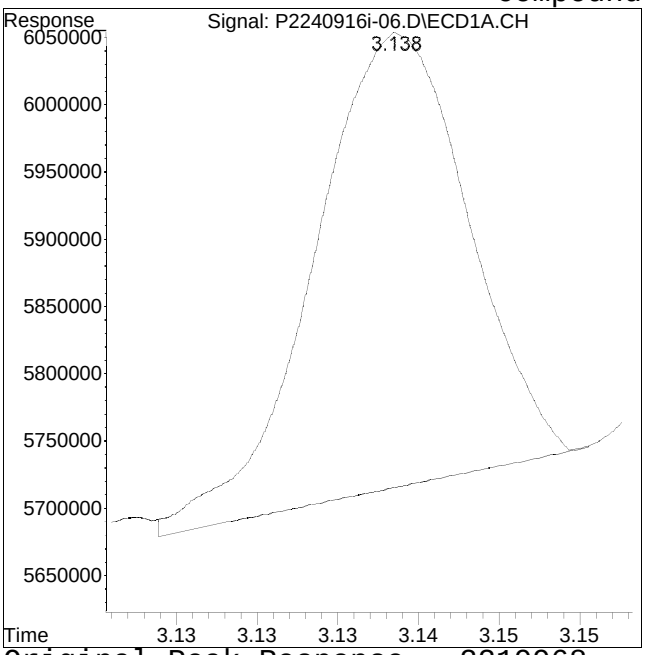


Original Peak Response = 7421514 Manual Peak Response = 4378607 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

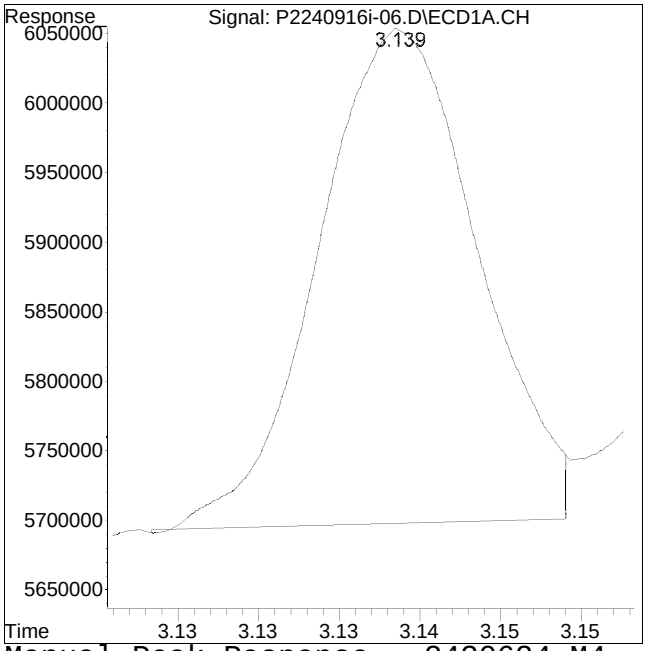
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #11: 1260-3



Original Peak Response = 2219968



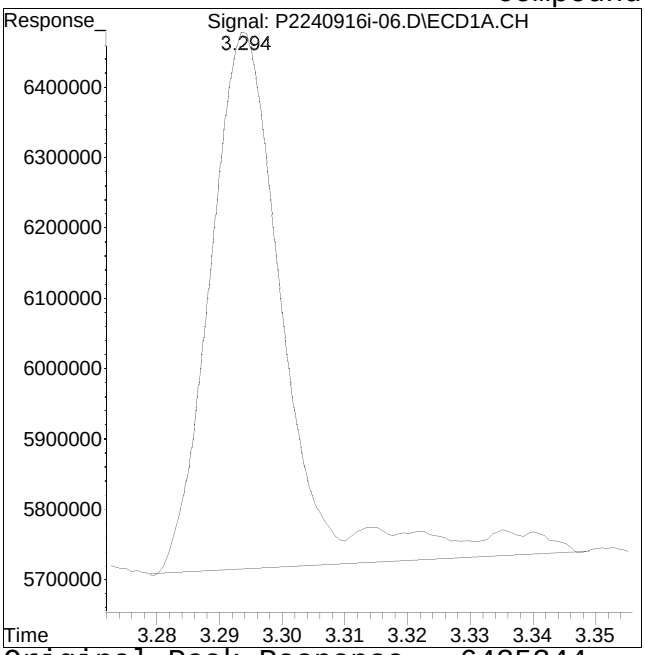
Manual Peak Response = 2430624 M4

M4 = Poor automated baseline construction.

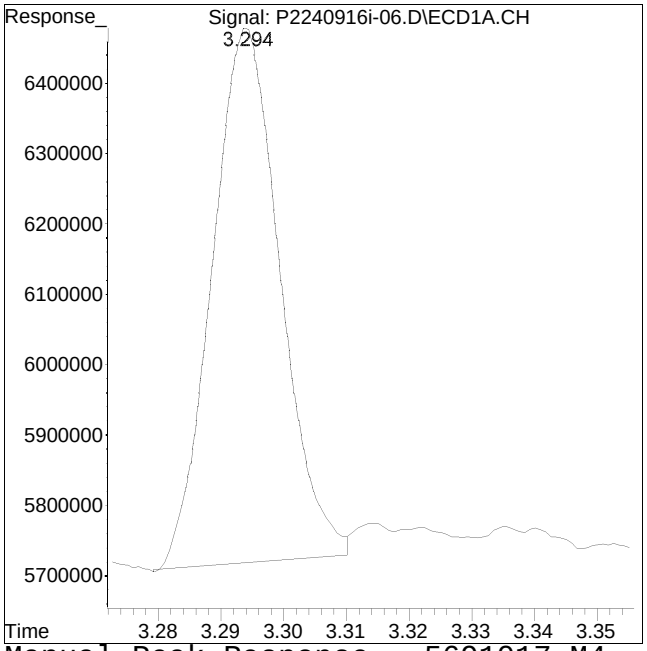
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #12: 1260-4



Original Peak Response = 6435344



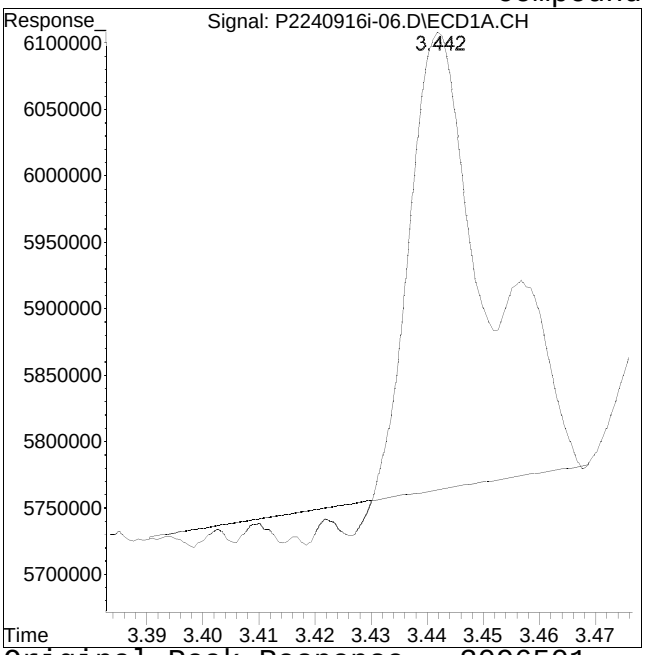
Manual Peak Response = 5691017 M4

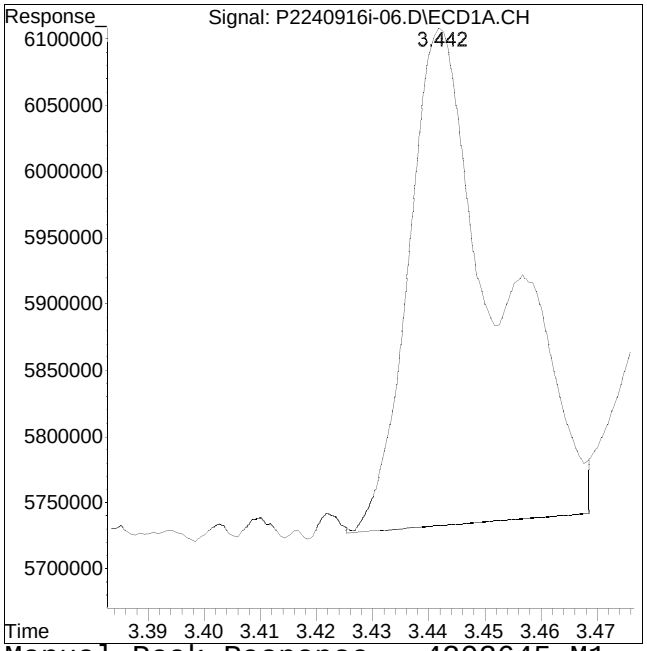
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #13: 1260-5





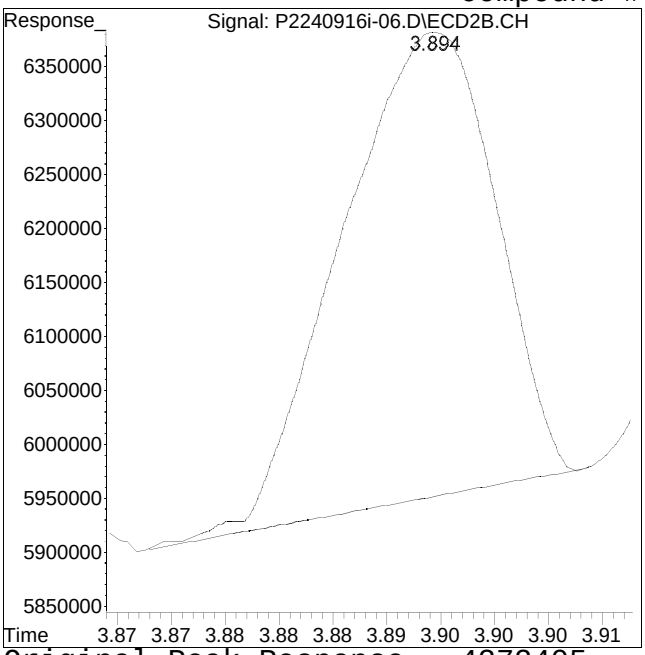
Original Peak Response = 3096501 Manual Peak Response = 4203645 M1

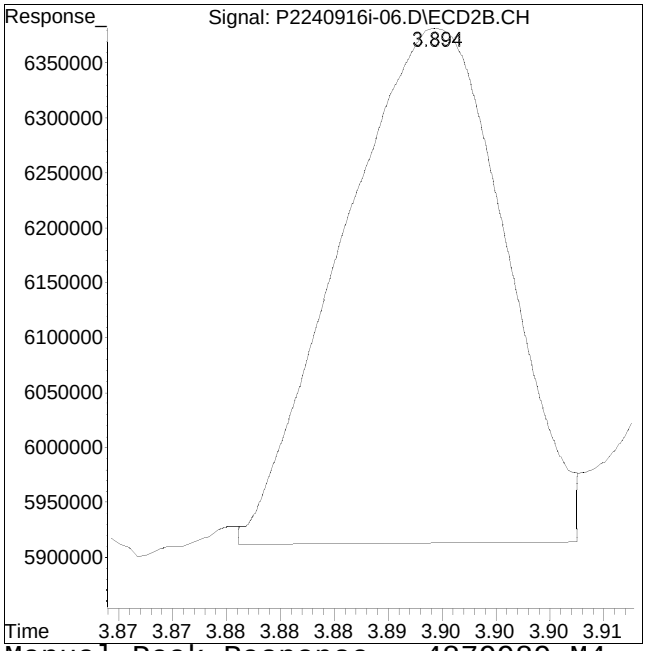
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #64: 1260-5 #2





Original Peak Response = 4272405 Manual Peak Response = 4879989 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.252	219.1E6	243.8E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.623	7987682	10752059	0.631M4	0.646
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.13%#	0.13%#
3) s	Decachlorobi	4.026	4.544	13731354	15996221	1.331	1.395
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.27%#	0.28%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	2592848	3299517	10.311	10.472
5) l1	1016-2	1.743	1.992	5479904	6752278	9.761	9.828M4
6) l1	1016-3	1.930	2.193	9836137	14142824	9.300M4	10.371M4
7) l1	1016-4	1.984	2.253	4120248	5578996	8.812M4	10.068
8) l1	1016-5	2.154	2.464	4247732	4514739	8.123	10.618
Sum	1016-1			26276868	34288354	46.305	51.358
Average	1016-1					9.261	10.272
9) l2	1260-1	2.695	3.073	6922616	9057396	10.423M4	10.546
10) l2	1260-2	2.825	3.174	10390964	10827414	10.279M4	10.775
11) l2	1260-3	3.140	3.566	5904233	8783091	9.765M4	10.885
12) l2	1260-4	3.295	3.695	13679789	16641459	10.484M4	10.453

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13) l2	1260-5	3.443	3.896	9648416	12378615	10.036M4	10.915M4
Sum	1260-1			46546019	57687975	NoCal	NoCal D
Average	1260-1					10.197	10.715
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D.	N.D.
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D.	N.D.
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D.	N.D.
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D.	N.D.
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D.	N.D.
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D.	N.D.
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D.	N.D.
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

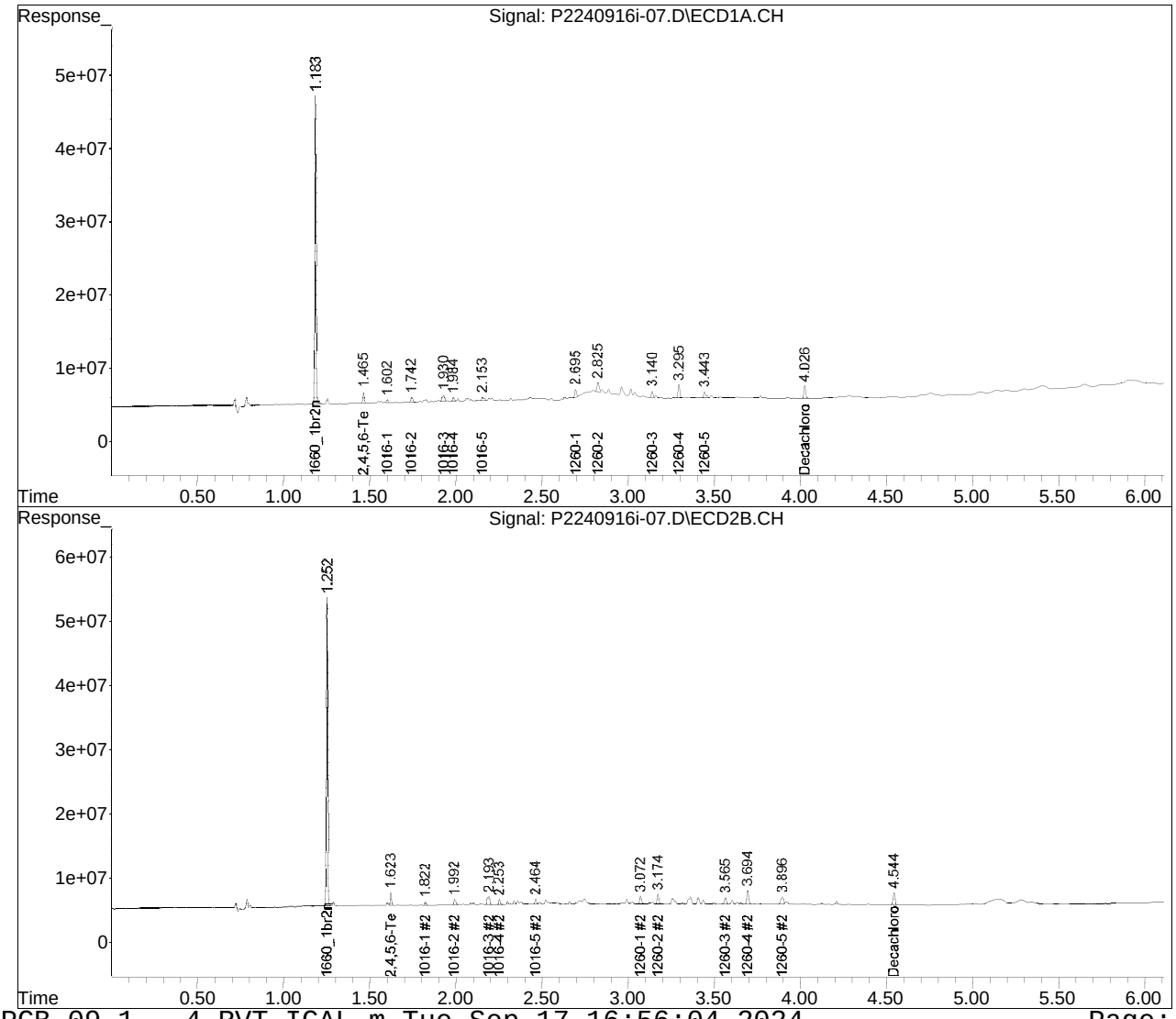
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

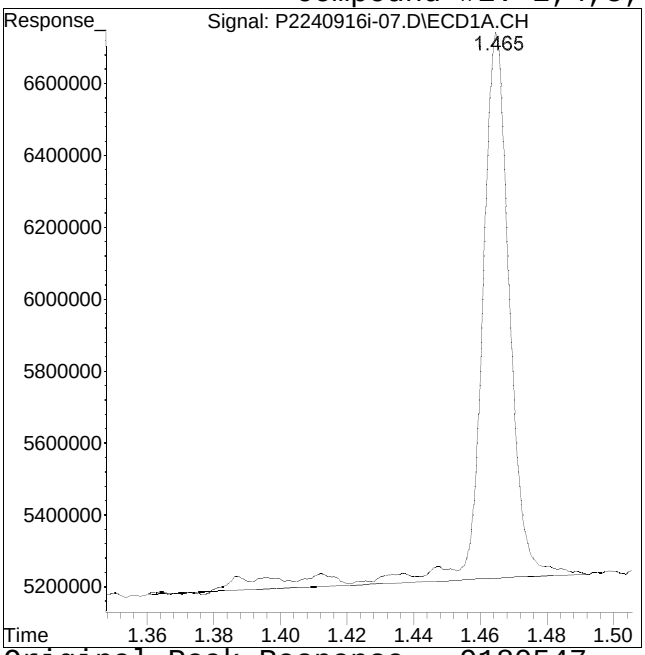
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



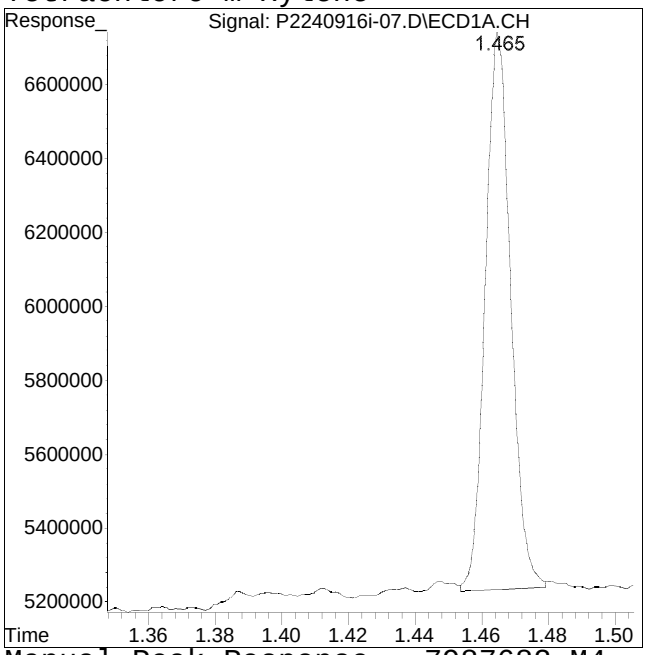
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 9180547



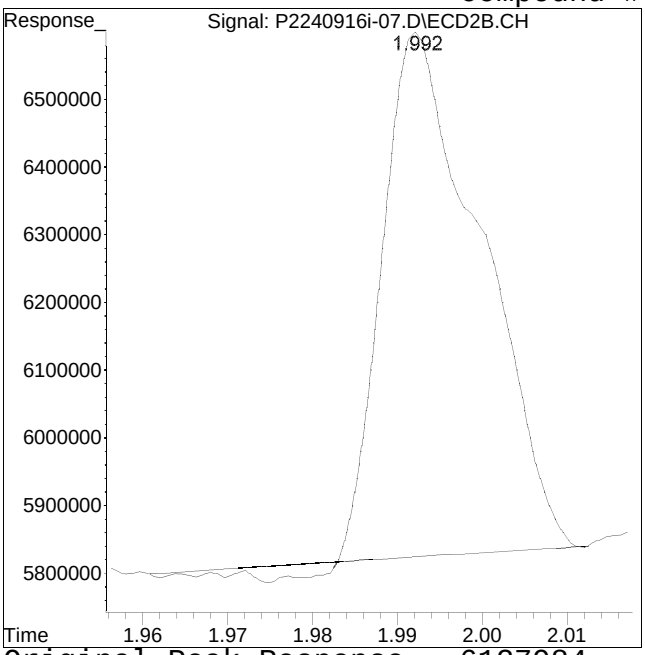
Manual Peak Response = 7987682 M4

M4 = Poor automated baseline construction.

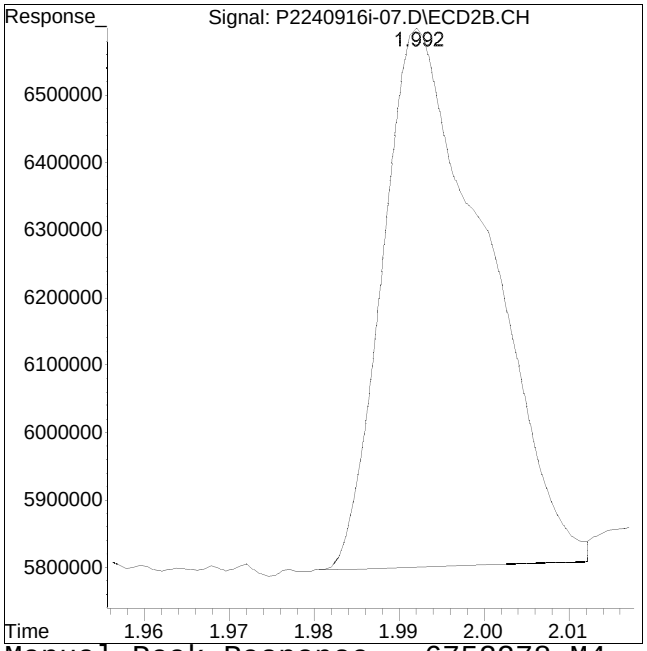
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #56: 1016-2 #2



Original Peak Response = 6127984



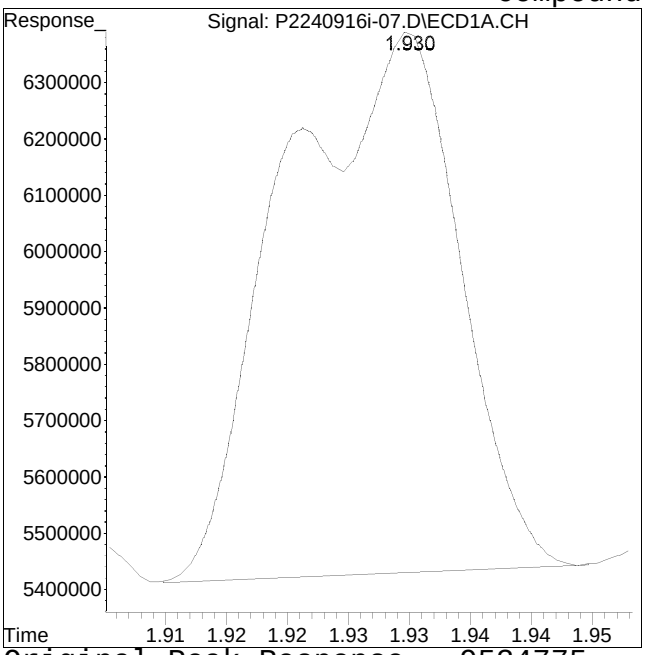
Manual Peak Response = 6752278 M4

M4 = Poor automated baseline construction.

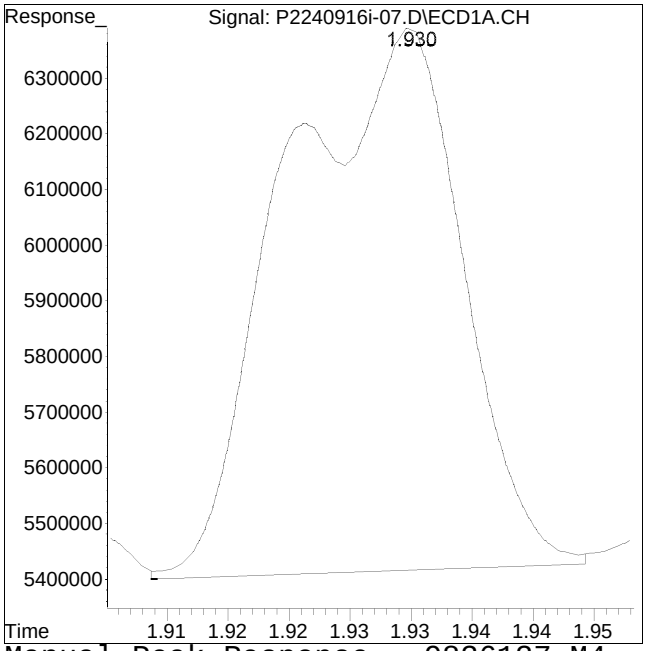
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #6: 1016-3



Original Peak Response = 9534775



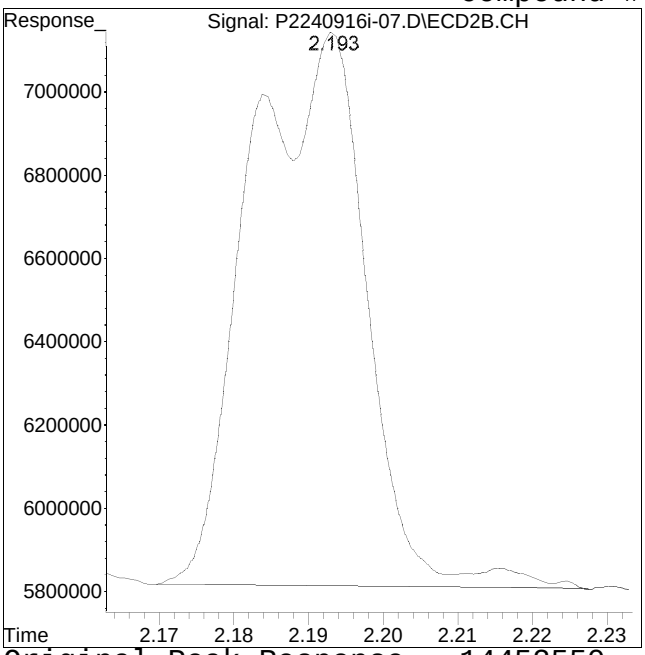
Manual Peak Response = 9836137 M4

M4 = Poor automated baseline construction.

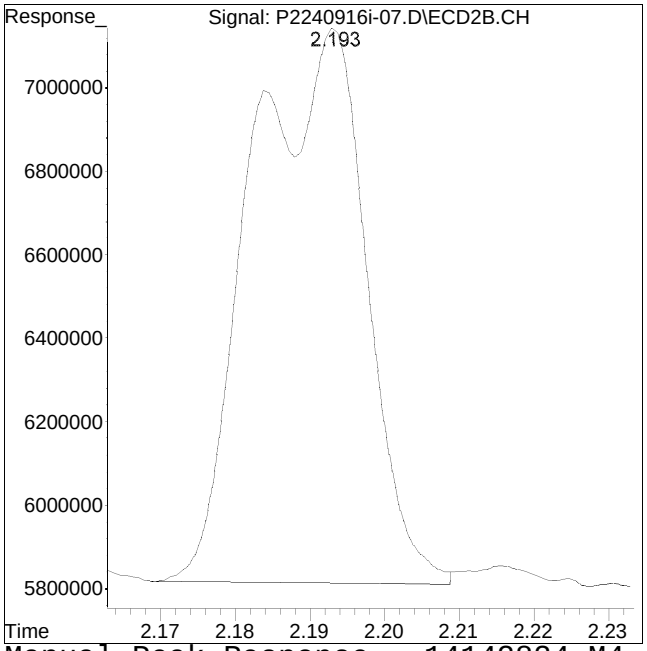
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #57: 1016-3 #2



Original Peak Response = 14452550



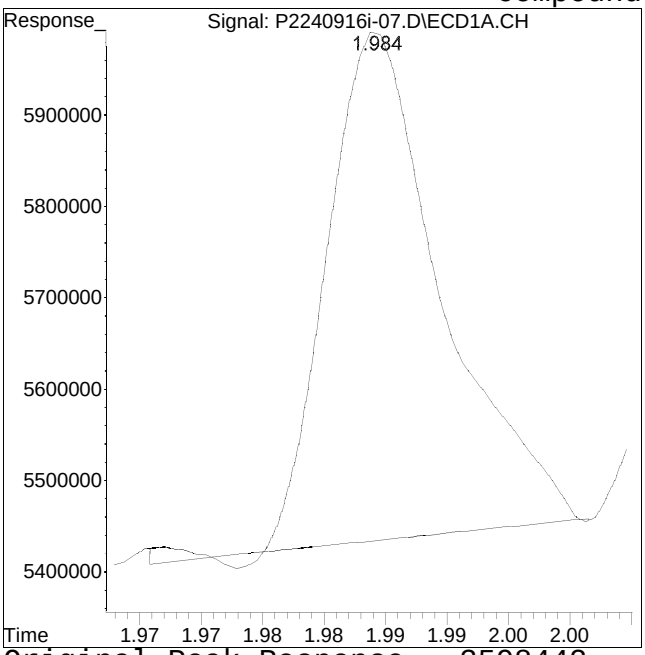
Manual Peak Response = 14142824 M4

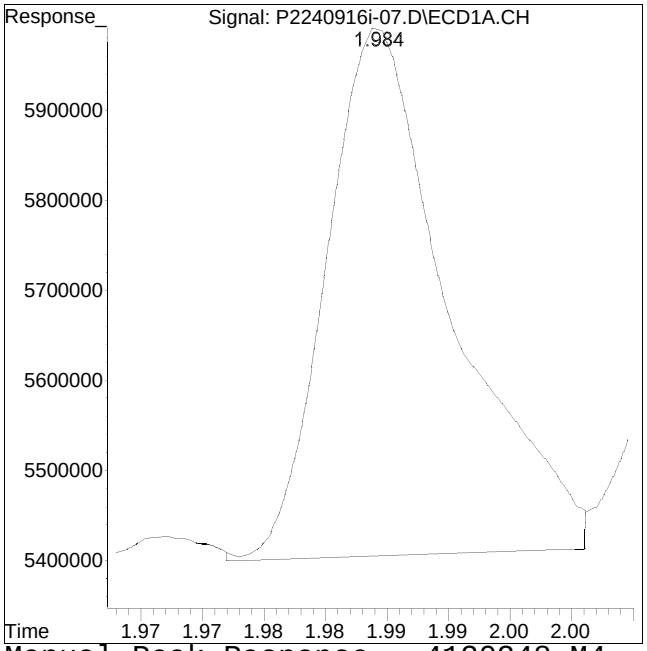
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #7: 1016-4



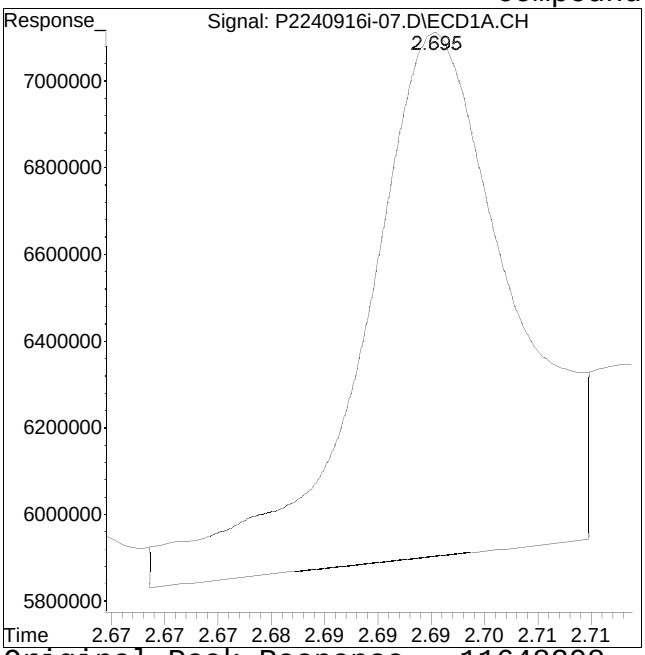


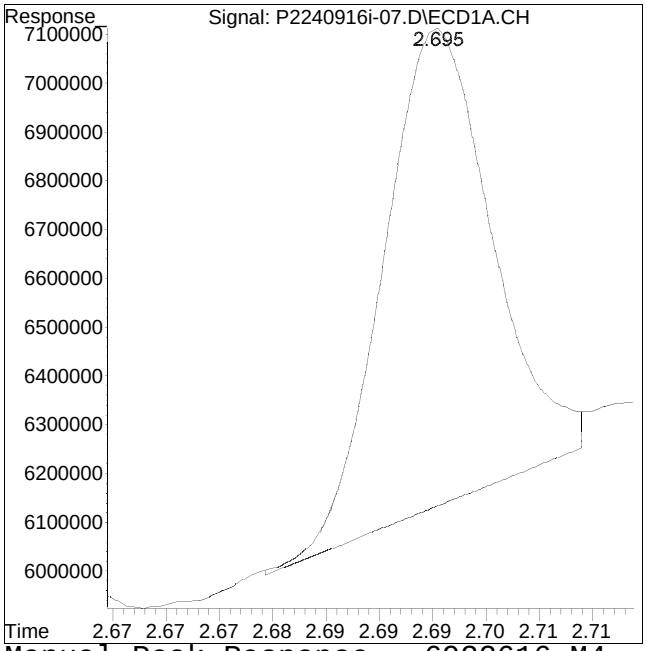
Original Peak Response = 3598442 Manual Peak Response = 4120248 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #9: 1260-1



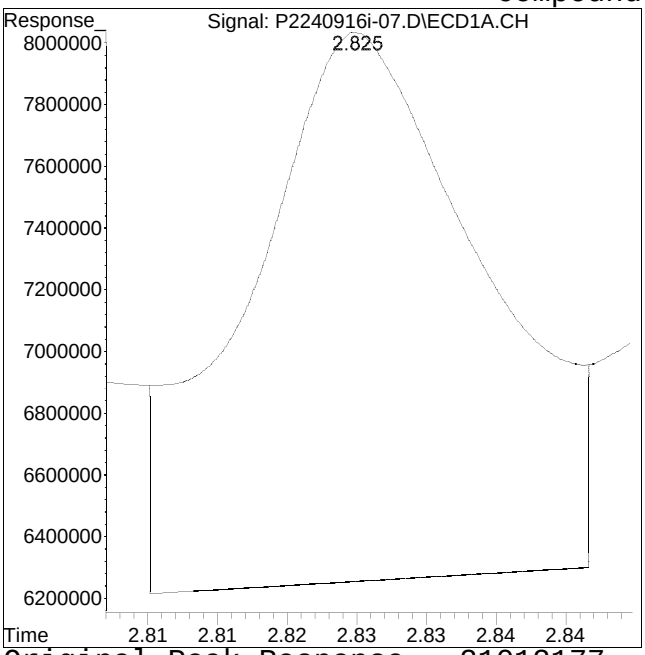


Original Peak Response = 11648298 Manual Peak Response = 6922616 M4
M4 = Poor automated baseline construction.

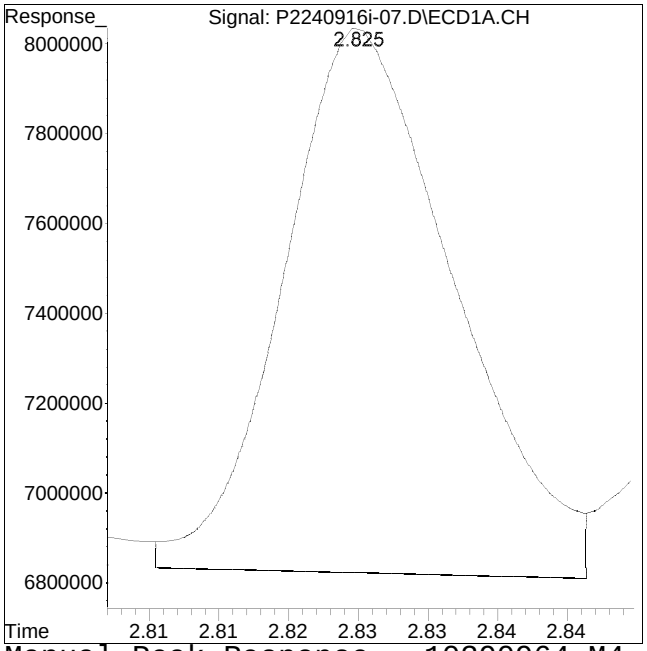
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #10: 1260-2



Original Peak Response = 21012177



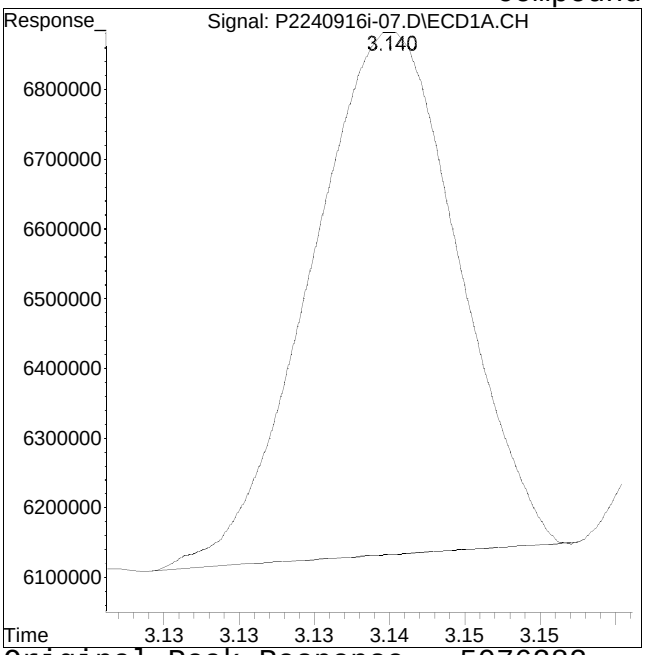
Manual Peak Response = 10390964 M4

M4 = Poor automated baseline construction.

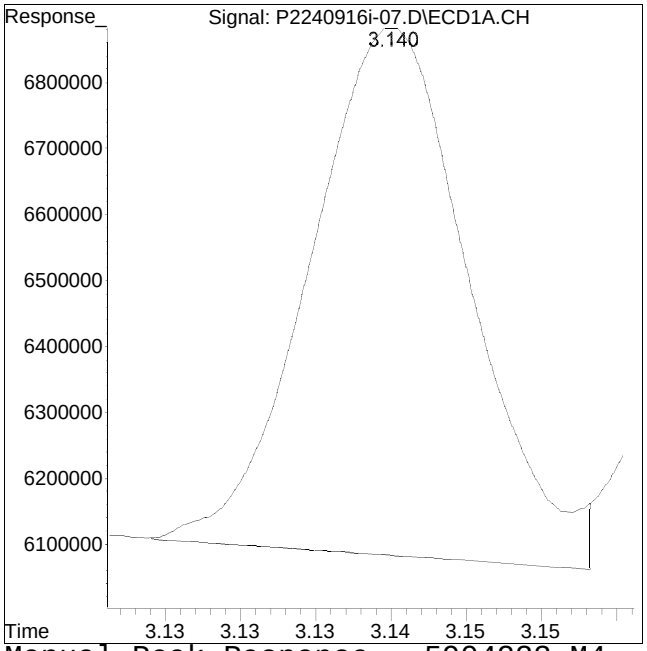
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #11: 1260-3



Original Peak Response = 5076282



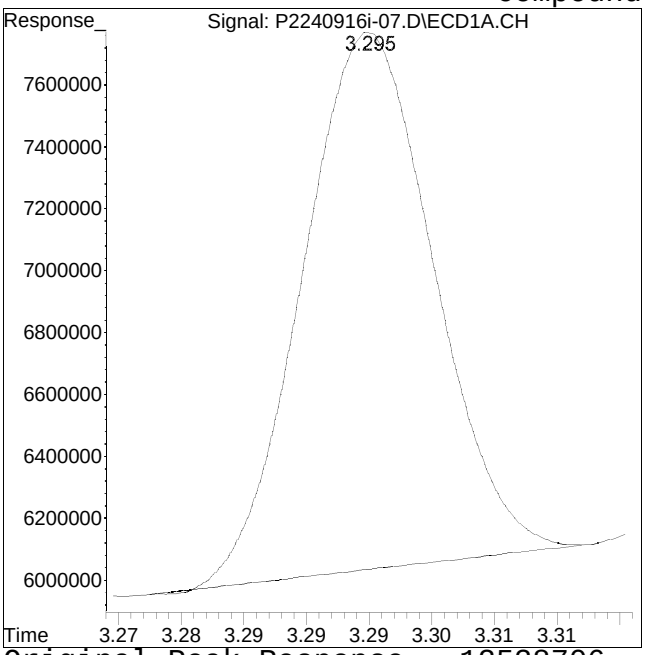
Manual Peak Response = 5904233 M4

M4 = Poor automated baseline construction.

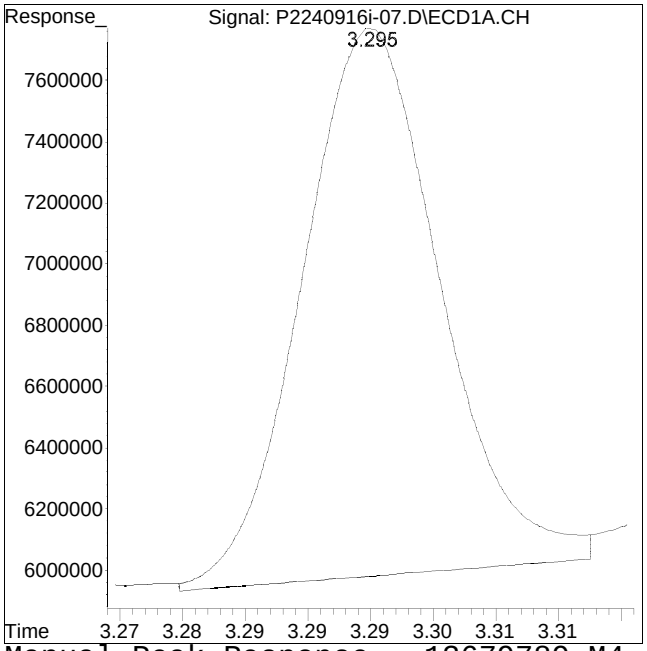
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #12: 1260-4



Original Peak Response = 12538706



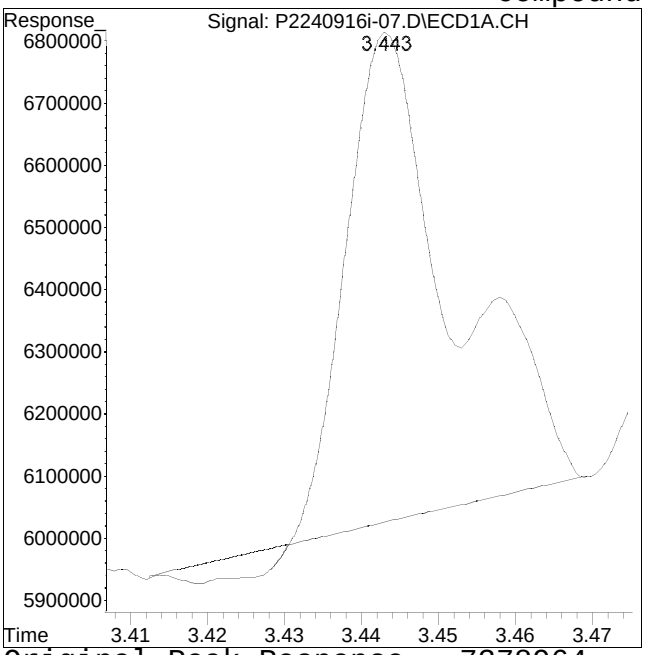
Manual Peak Response = 13679789 M4

M4 = Poor automated baseline construction.

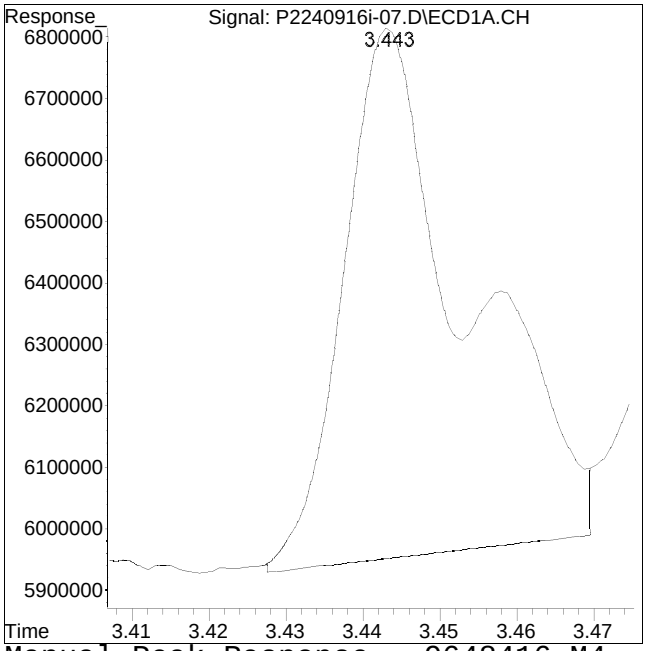
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #13: 1260-5



Original Peak Response = 7378964



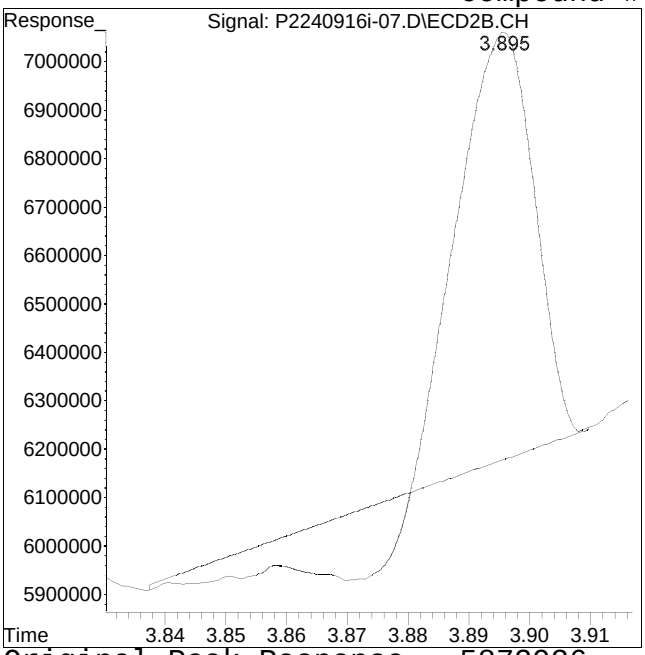
Manual Peak Response = 9648416 M4

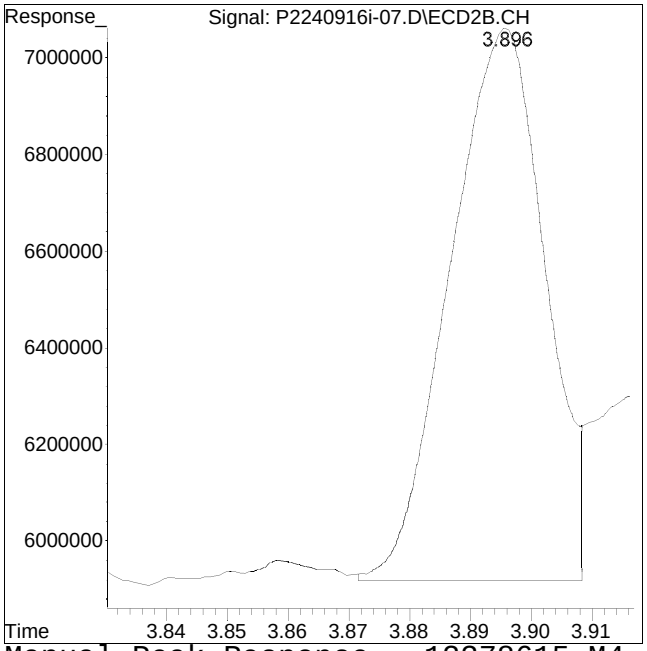
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #64: 1260-5 #2





Original Peak Response = 5872926 Manual Peak Response = 12378615 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:47 pm
Operator : pest2:kb/sdc
Sample : il31660,42,,pp11790 20PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:19:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:18:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	214.3E6	243.4E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.623	16020654	22117529	1.309M4	1.384
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.26%#	0.28%#
3) s	Decachlorobi	4.026	4.544	25914732	30032686	2.576	2.688
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.52%#	0.54%#
	Target Compounds						
4) l1	1016-1	1.603	1.823	5018375	6360232	20.831	20.435
5) l1	1016-2	1.743	1.992	10998480	13977131	20.066	20.762M4
6) l1	1016-3	1.930	2.194	21149857	27872165	20.918	20.960
7) l1	1016-4	1.985	2.253	9501897	11367344	21.624	21.119
8) l1	1016-5	2.154	2.464	10607500	8713170	21.543	21.072
	Sum 1016-1			57276108	68290042	104.982	104.349
	Average 1016-1					20.996	20.870
9) l2	1260-1	2.696	3.072	13204544	17107728	20.673	19.899
10) l2	1260-2	2.826	3.174	19987171	20486116	20.441	20.853
11) l2	1260-3	3.140	3.566	11909007	16402627	20.284M4	20.730
12) l2	1260-4	3.295	3.695	25682756	32138585	20.258M4	20.438
13) l2	1260-5	3.443	3.896	18874650	23027119	20.154M1	20.680
	Sum 1260-1			89658127	109.2E6	NoCal	NoCal D

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:47 pm
Operator : pest2:kb/sdc
Sample : il31660,42,,pp11790 20PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:19:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:18:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1260-1					20.362	20.520
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D.	N.D.
20) l4	1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:47 pm
Operator : pest2:kb/sdc
Sample : il31660,42,,pp11790 20PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:19:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:18:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

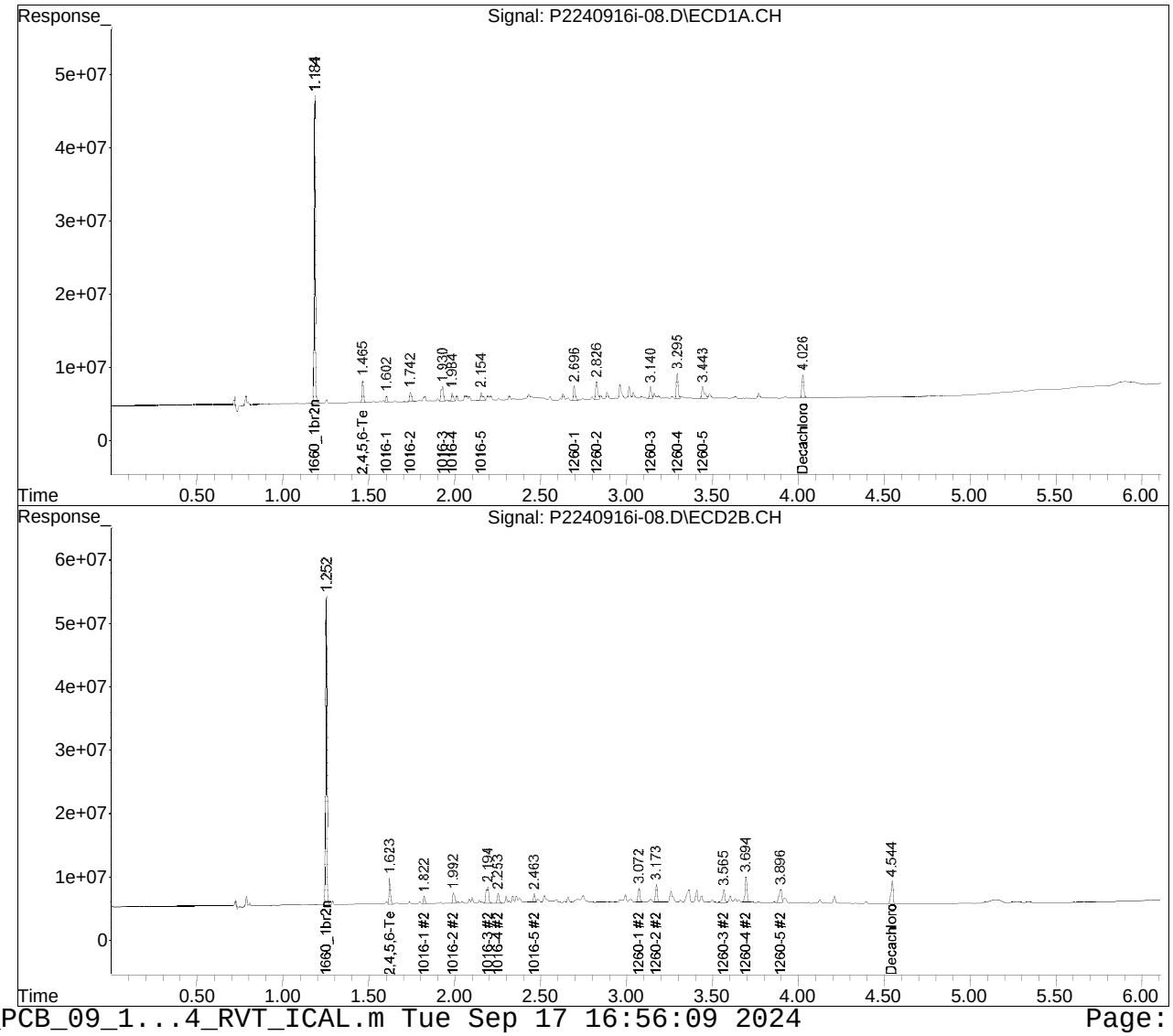
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:47 pm
Operator : pest2:kb/sdc
Sample : il31660,42,,pp11790 20PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:19:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:18:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

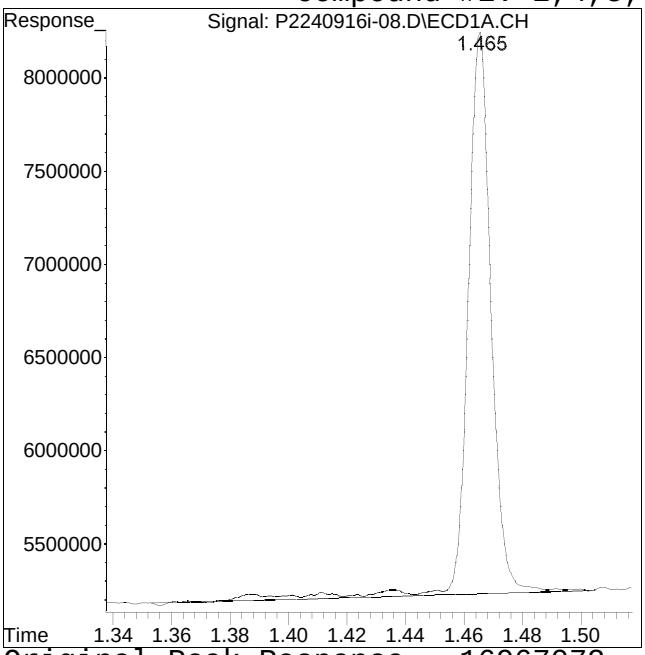
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



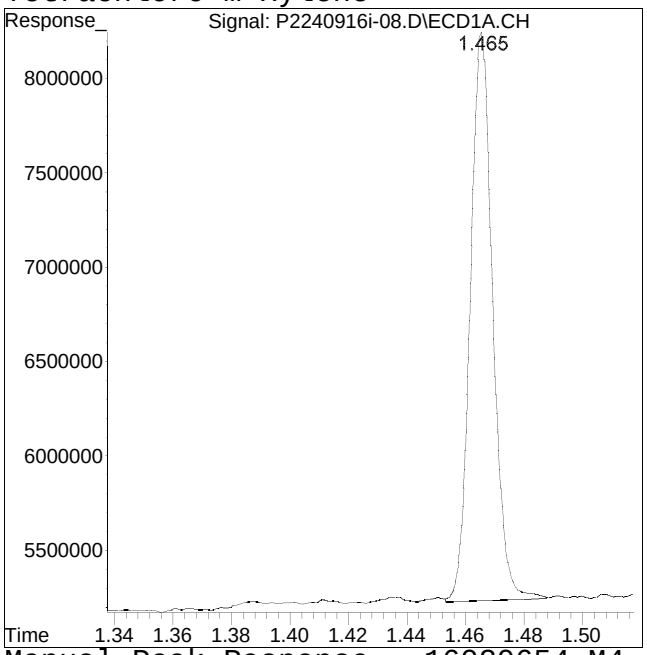
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 16967072



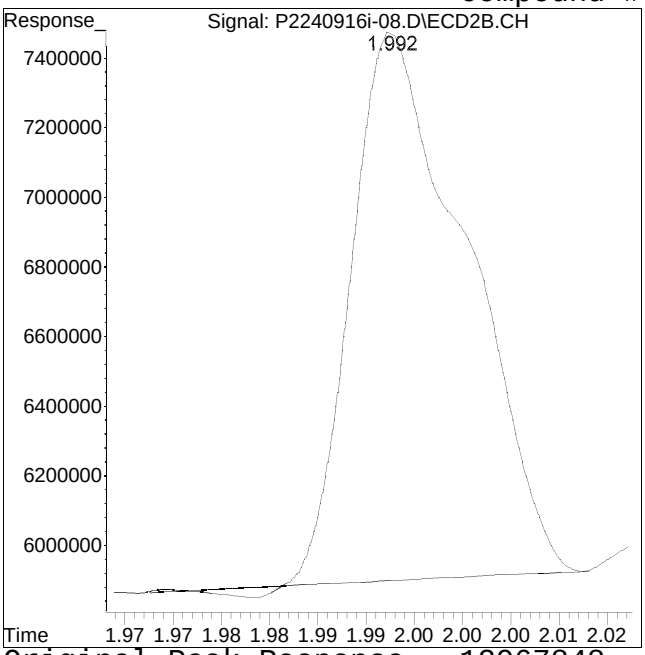
Manual Peak Response = 16020654 M4

M4 = Poor automated baseline construction.

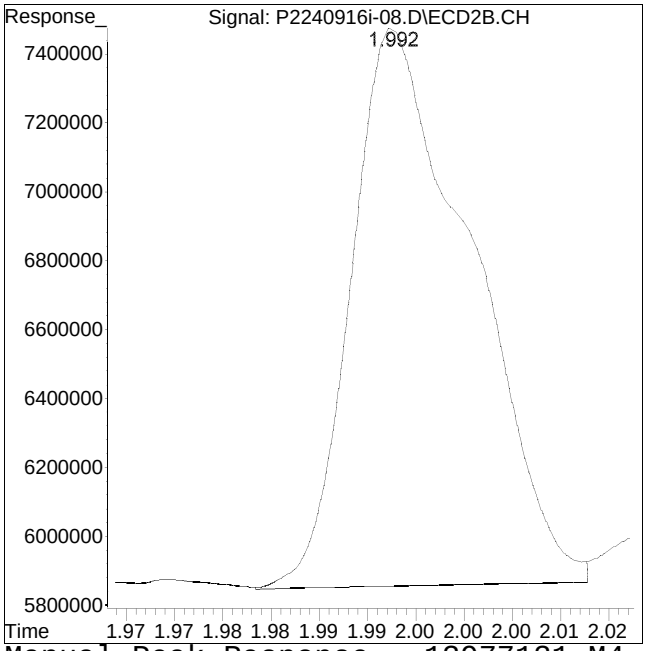
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #56: 1016-2 #2



Original Peak Response = 12967848



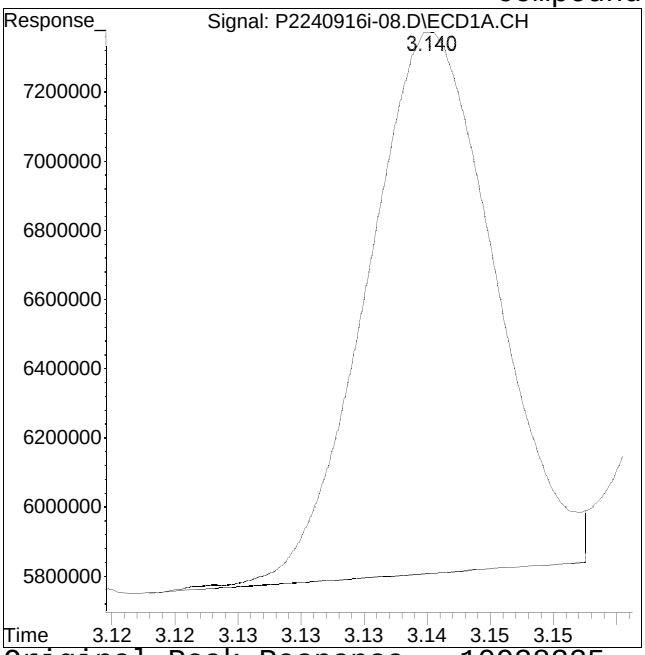
Manual Peak Response = 13977131 M4

M4 = Poor automated baseline construction.

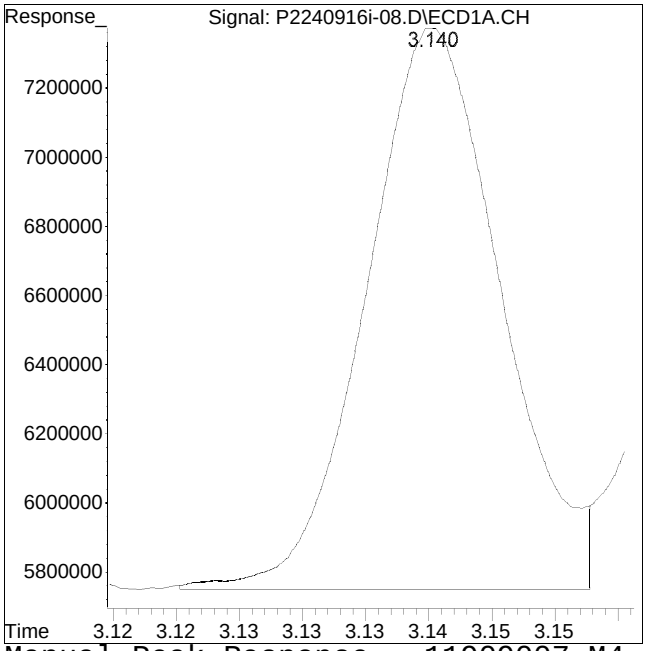
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #11: 1260-3



Original Peak Response = 10938335



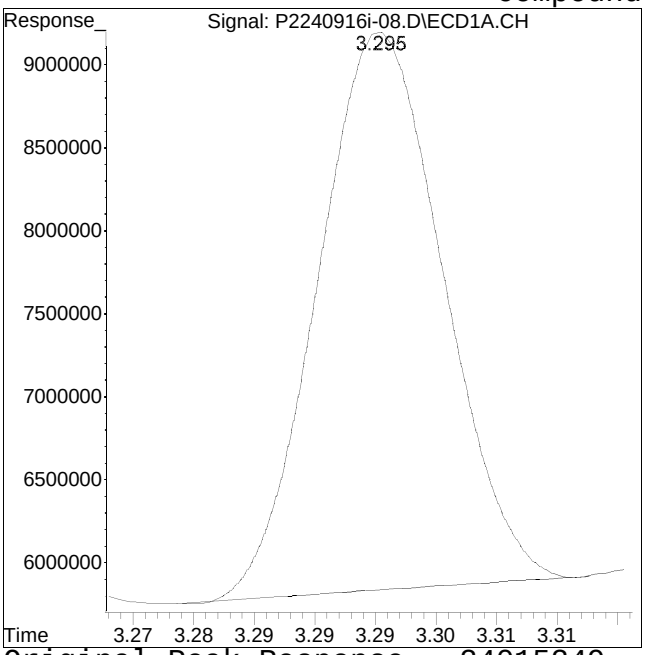
Manual Peak Response = 11909007 M4

M4 = Poor automated baseline construction.

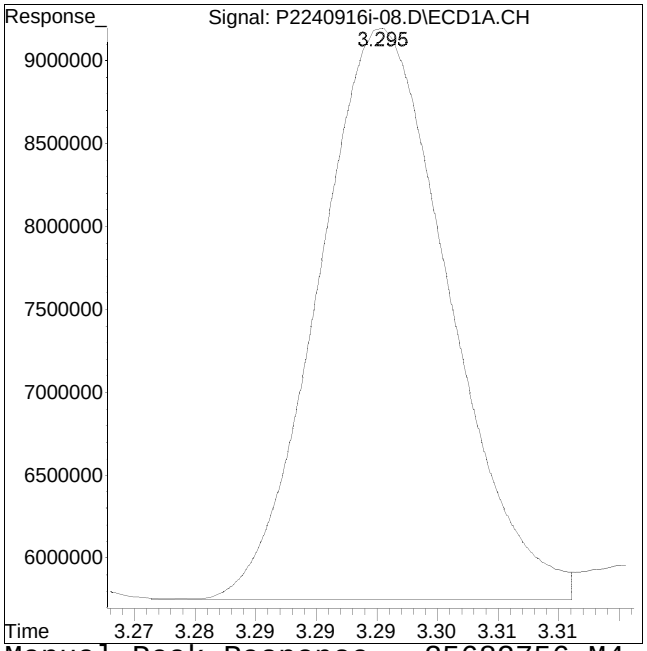
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #12: 1260-4



Original Peak Response = 24015249



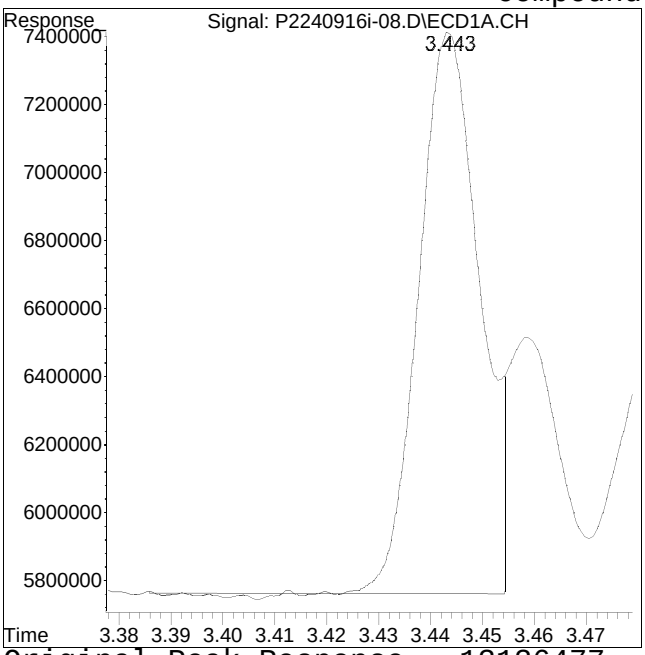
Manual Peak Response = 25682756 M4

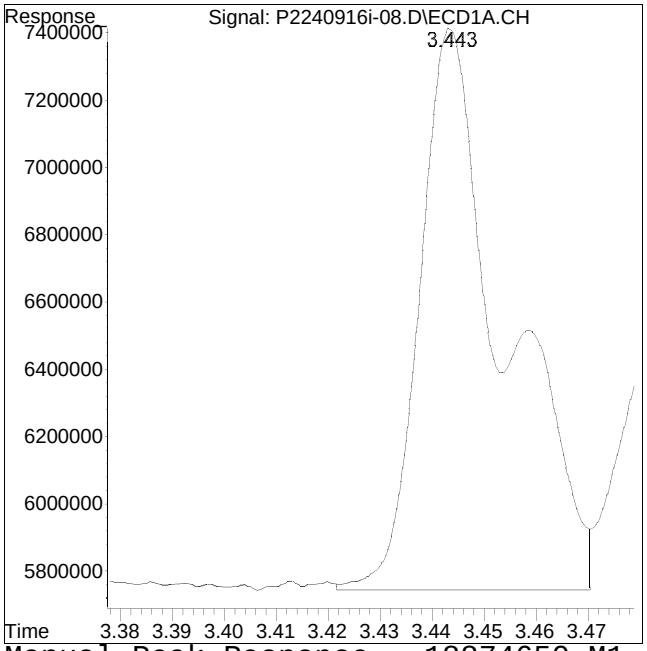
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #13: 1260-5





Original Peak Response = 13136477 Manual Peak Response = 18874650 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:55 pm
Operator : pest2:kb/sdc
Sample : il41660,42,,pp11790 30PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:17:31 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:12:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	216.0E6	247.4E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	23701420	31194363	1.889M4	1.847
	Spiked Amount	500.000	Range 30 - 150		Recovery =	0.38%#	0.37%#
3) s	Decachlorobi	4.026	4.545	38950596	43606128	3.826	3.759
	Spiked Amount	500.000	Range 30 - 150		Recovery =	0.77%#	0.75%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	7287008	9490556	29.170	27.538
5) l1	1016-2	1.742	1.993	16579873	20527486	31.702	29.491M4
6) l1	1016-3	1.930	2.194	30584344	40547738	29.036	29.808
7) l1	1016-4	1.984	2.254	13291546	16412600	28.306	28.349
8) l1	1016-5	2.154	2.465	14893970	12608593	27.402	29.750
	Sum 1016-1			82636742	99586974	145.616	144.936
	Average 1016-1					29.123	28.987
9) l2	1260-1	2.695	3.073	19320420	26215729	28.174	29.264
10) l2	1260-2	2.825	3.174	29577395	29956727	29.692	28.863
11) l2	1260-3	3.140	3.566	17759471	24127405	29.713	29.179
12) l2	1260-4	3.295	3.695	38348158	47949577	29.629M4	28.723
13) l2	1260-5	3.443	3.897	28327981	33953657	29.791M1	29.646
	Sum 1260-1			133.3E6	162.2E6	NoCal	NoCal D
	Average 1260-1					29.400	29.135

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:55 pm
Operator : pest2:kb/sdc
Sample : il41660,42,,pp11790 30PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:17:31 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:12:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D.	N.D.
20) l4	1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:55 pm
Operator : pest2:kb/sdc
Sample : il41660,42,,pp11790 30PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:17:31 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:12:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

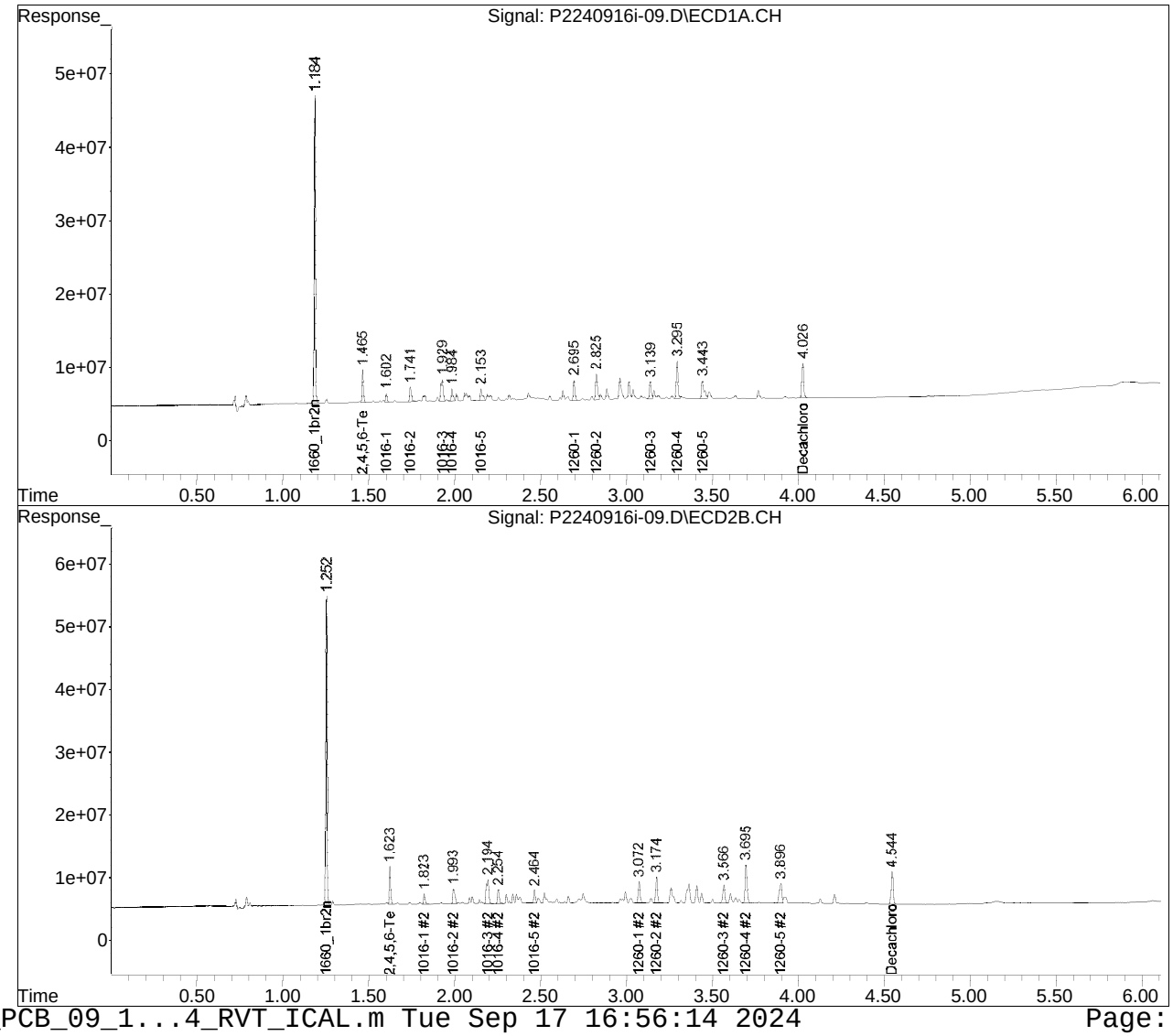
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:55 pm
Operator : pest2:kb/sdc
Sample : il41660,42,,pp11790 30PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:17:31 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:12:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

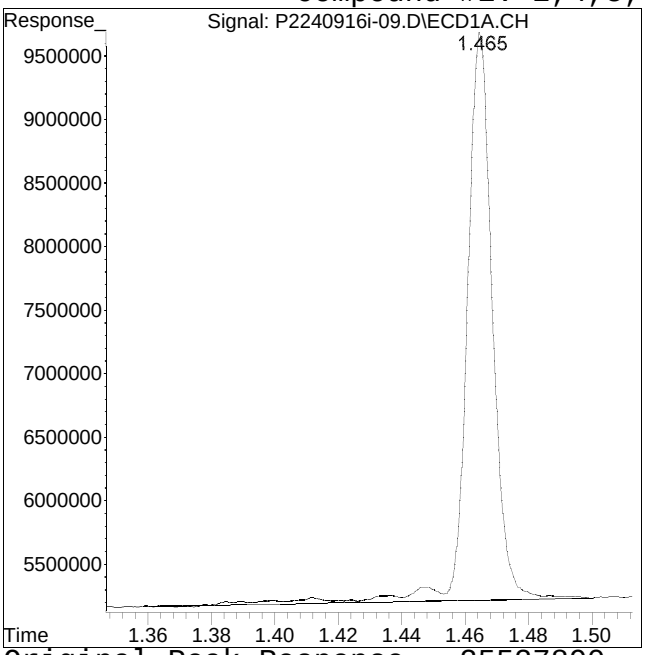
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



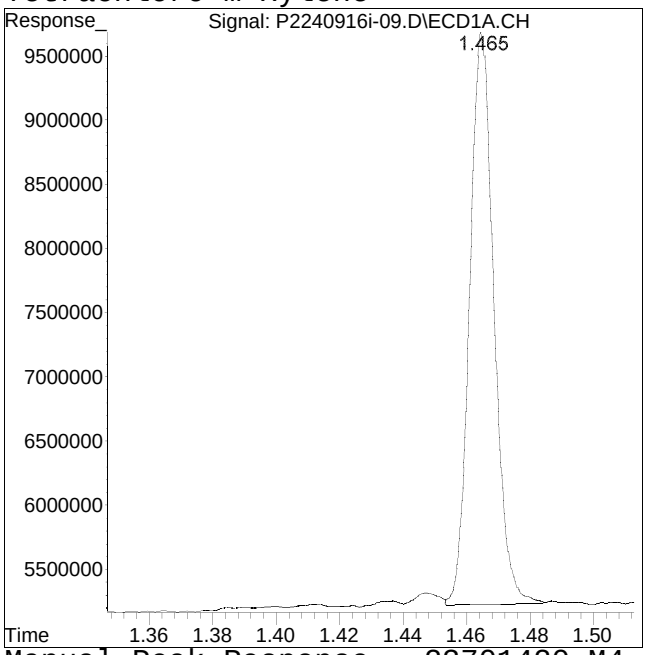
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-09.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:55 pm Instrument : Pest 2
Sample : il41660,42,,pp11790 30PPB Quant Date : 9/16/2024 4:17 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 25527890



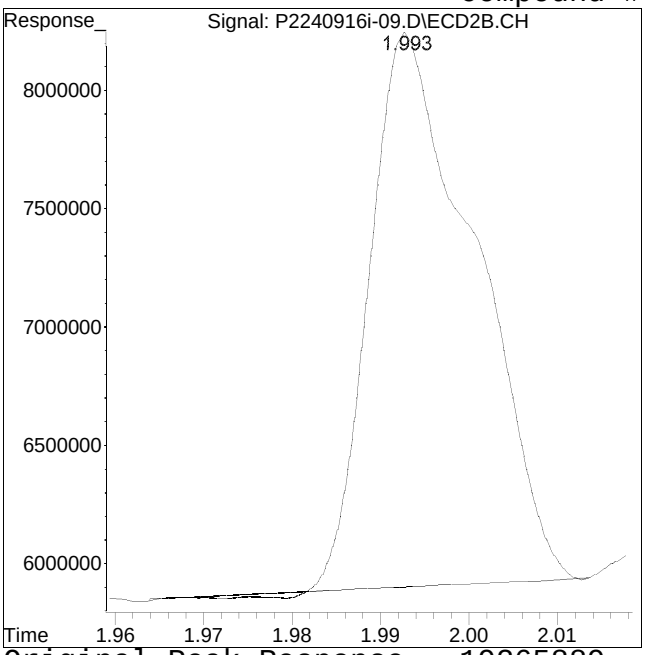
Manual Peak Response = 23701420 M4

M4 = Poor automated baseline construction.

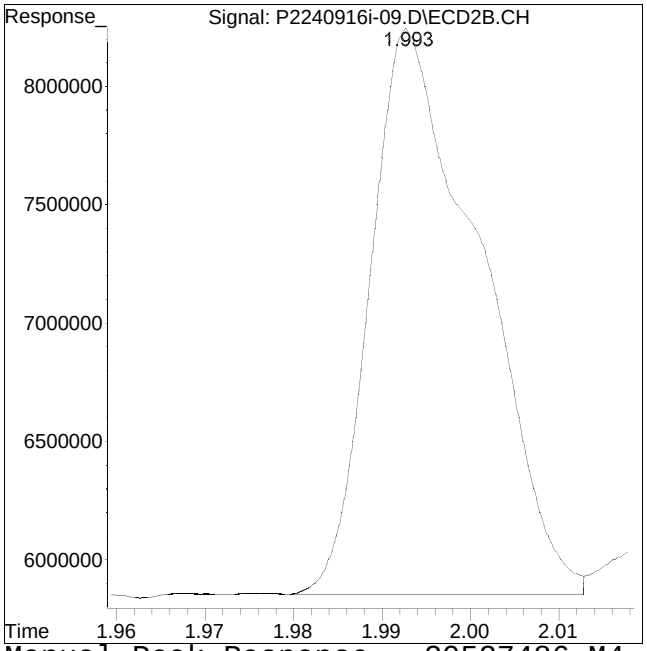
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-09.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:55 pm Instrument : Pest 2
Sample : il41660,42,,pp11790 30PPB Quant Date : 9/16/2024 4:17 pm

Compound #56: 1016-2 #2



Original Peak Response = 19265889



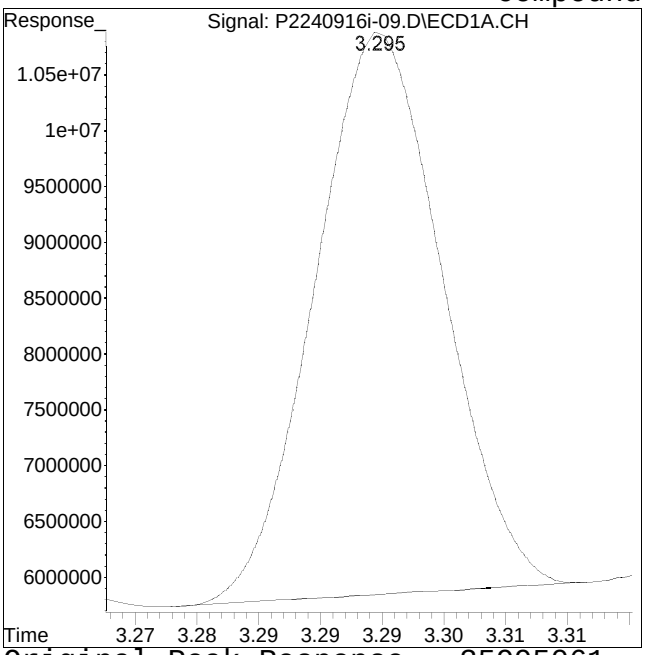
Manual Peak Response = 20527486 M4

M4 = Poor automated baseline construction.

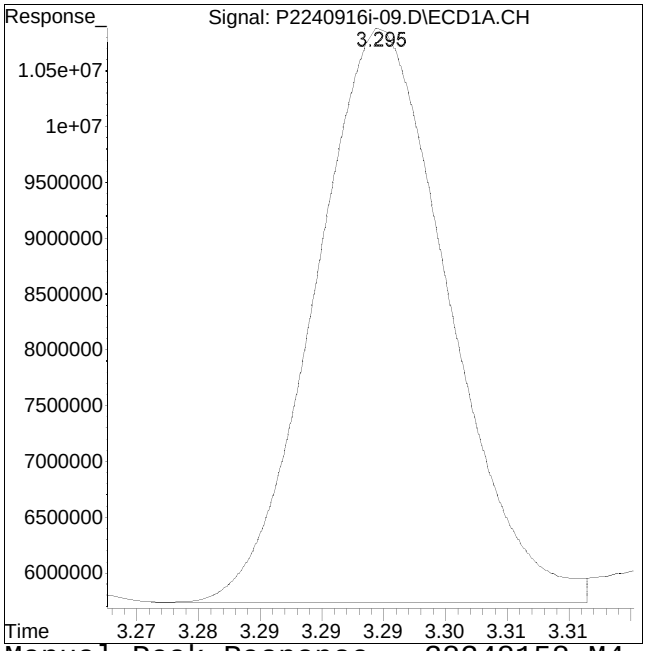
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-09.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:55 pm Instrument : Pest 2
Sample : il41660,42,,pp11790 30PPB Quant Date : 9/16/2024 4:17 pm

Compound #12: 1260-4



Original Peak Response = 35995061



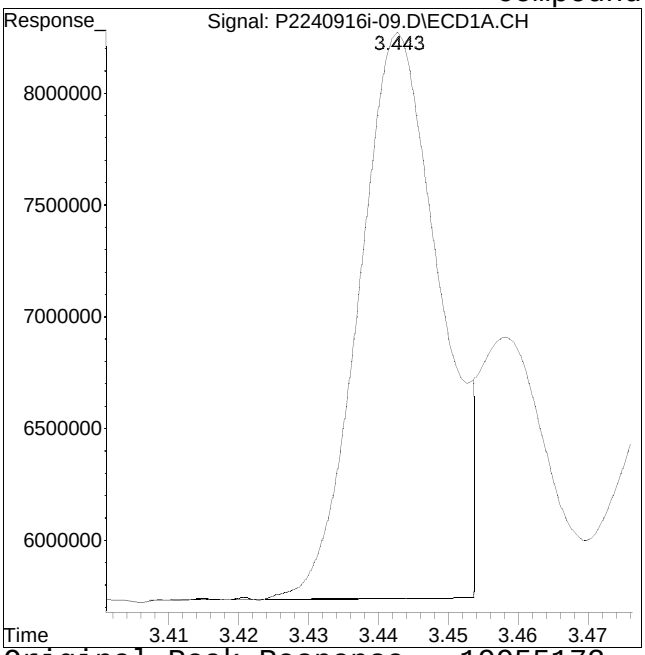
Manual Peak Response = 38348158 M4

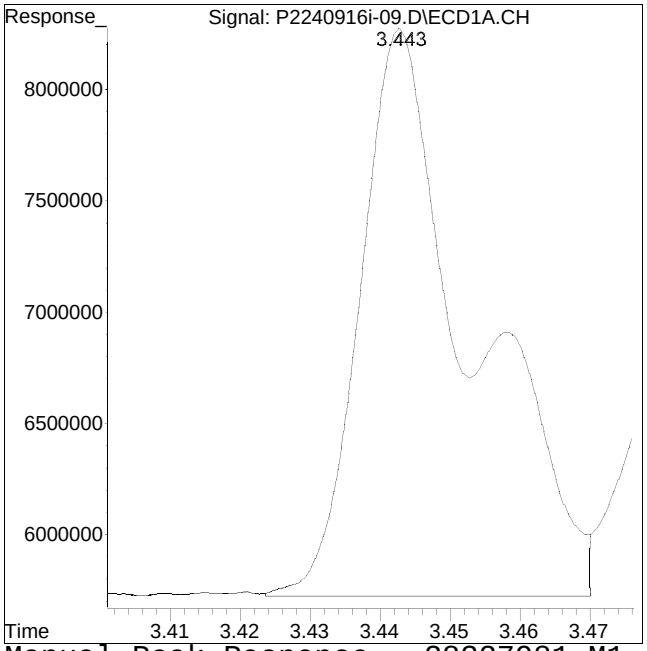
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-09.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:55 pm Instrument : Pest 2
Sample : il41660,42,,pp11790 30PPB Quant Date : 9/16/2024 4:17 pm

Compound #13: 1260-5





Original Peak Response = 19955172 Manual Peak Response = 28327981 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:04 pm
Operator : pest2:kb/sdc
Sample : il51660,42,,pp11790 40PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:28:47 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:28:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	216.4E6	249.1E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	31028289	41234103	2.471	2.385
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.49%#	0.48%#
3) s	Decachlorobi	4.026	4.544	51601040	56755220	4.826	4.543
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.97%#	0.91%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	9304445	12151923	37.122	36.165
5) l1	1016-2	1.742	1.994	20984858	27943430	38.015	40.159
6) l1	1016-3	1.930	2.194	39280097	52100559	37.879	36.222
7) l1	1016-4	1.984	2.254	16995850	21059831	38.267	36.078
8) l1	1016-5	2.154	2.465	19236393	16893873	38.583	37.107
	Sum 1016-1			105.8E6	130.1E6	189.865	185.732
	Average 1016-1					37.973	37.146
9) l2	1260-1	2.695	3.073	25459305	33045513	37.479	36.494
10) l2	1260-2	2.825	3.175	39329833	38676250	38.511	36.078
11) l2	1260-3	3.140	3.566	24327242	31748249	41.111	36.463
12) l2	1260-4	3.295	3.696	51329323	63121572	38.676M4	37.732
13) l2	1260-5	3.443	3.897	36401098	44712642	37.610M1	37.354
	Sum 1260-1			176.8E6	211.3E6	NoCal	NoCal D
	Average 1260-1					38.677	36.824
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:04 pm
Operator : pest2:kb/sdc
Sample : il51660,42,,pp11790 40PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:28:47 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:28:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:04 pm
Operator : pest2:kb/sdc
Sample : il51660,42,,pp11790 40PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:28:47 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:28:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

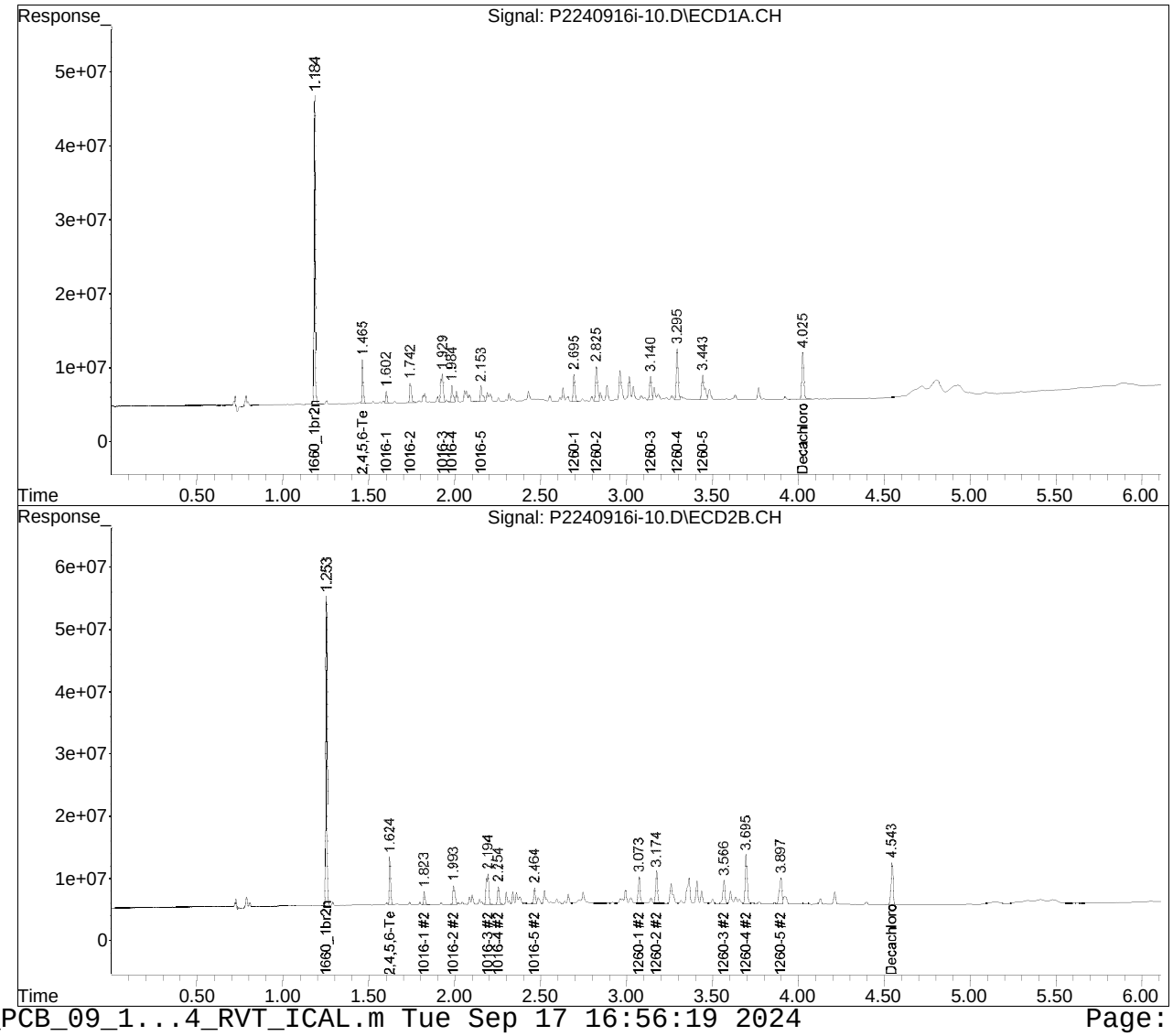
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:04 pm
Operator : pest2:kb/sdc
Sample : il51660,42,,pp11790 40PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:28:47 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:28:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

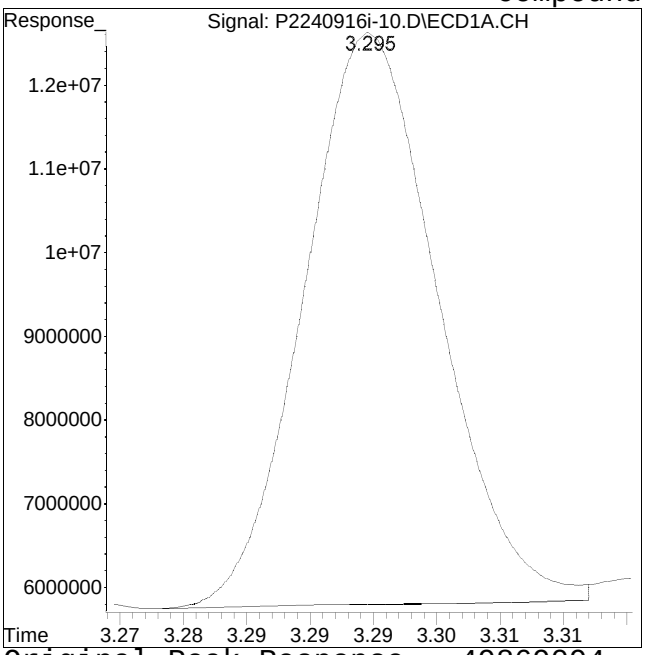
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



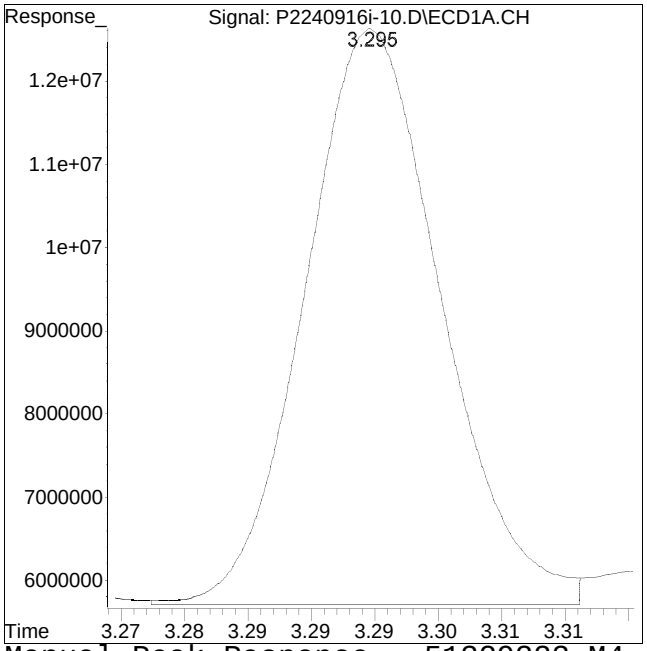
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-10.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:04 pm Instrument : Pest 2
Sample : il51660,42,,pp11790 40PPB Quant Date : 9/16/2024 4:28 pm

Compound #12: 1260-4



Original Peak Response = 49869094



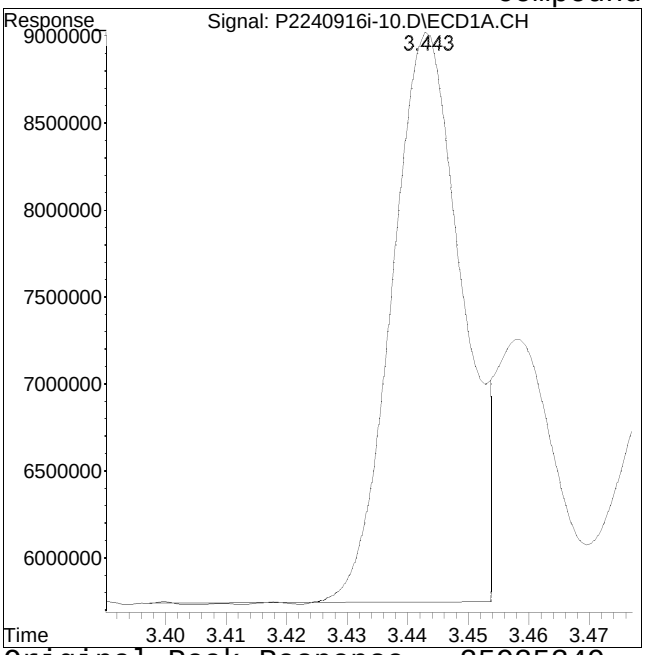
Manual Peak Response = 51329323 M4

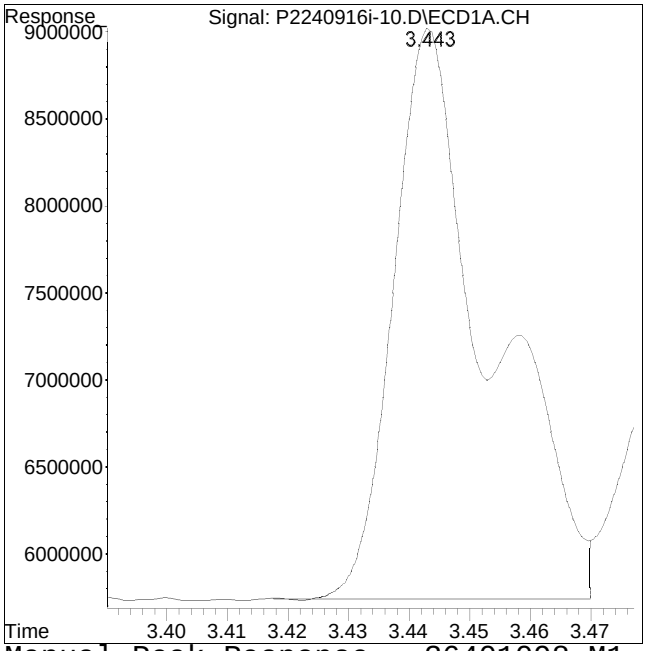
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-10.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:04 pm Instrument : Pest 2
Sample : il51660,42,,pp11790 40PPB Quant Date : 9/16/2024 4:28 pm

Compound #13: 1260-5





Original Peak Response = 25935349 Manual Peak Response = 36401098 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:13 pm
Operator : pest2:kb/sdc
Sample : il61660,42,,pp11790 50PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:30:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:29:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.254	213.0E6	248.5E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	39428033	52397795	3.212M4	3.080
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.64%#	0.62%#
3) s	Decachlorobi	4.025	4.546	63094250	69128698	6.065	5.673
	Spiked Amount 500.000	Range 30 - 150		Recovery =		1.21%#	1.13%#
	Target Compounds						
4) l1	1016-1	1.602	1.824	11776281	15111645	48.430	45.952
5) l1	1016-2	1.742	1.994	25061708	34577252	46.588	49.761
6) l1	1016-3	1.929	2.194	50302979	65581605	49.811	46.574
7) l1	1016-4	1.984	2.255	20972386	26755739	48.393	46.855
8) l1	1016-5	2.153	2.465	23796597	21258213	48.837	47.482
	Sum 1016-1			131.9E6	163.3E6	242.057	236.624
	Average 1016-1					48.411	47.325
9) l2	1260-1	2.695	3.073	32210793	44682243	48.789	50.335
10) l2	1260-2	2.824	3.175	49517504	52152053	49.629	49.729
11) l2	1260-3	3.139	3.566	30106707	42000177	51.404	49.212
12) l2	1260-4	3.295	3.696	63286689	79371969	48.769	48.094
13) l2	1260-5	3.442	3.897	45478274	56662066	48.316M1	48.076
	Sum 1260-1			220.6E6	274.9E6	NoCal	NoCal D
	Average 1260-1					49.382	49.089
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:13 pm
Operator : pest2:kb/sdc
Sample : il61660,42,,pp11790 50PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:30:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:29:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:13 pm
Operator : pest2:kb/sdc
Sample : il61660,42,,pp11790 50PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:30:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:29:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

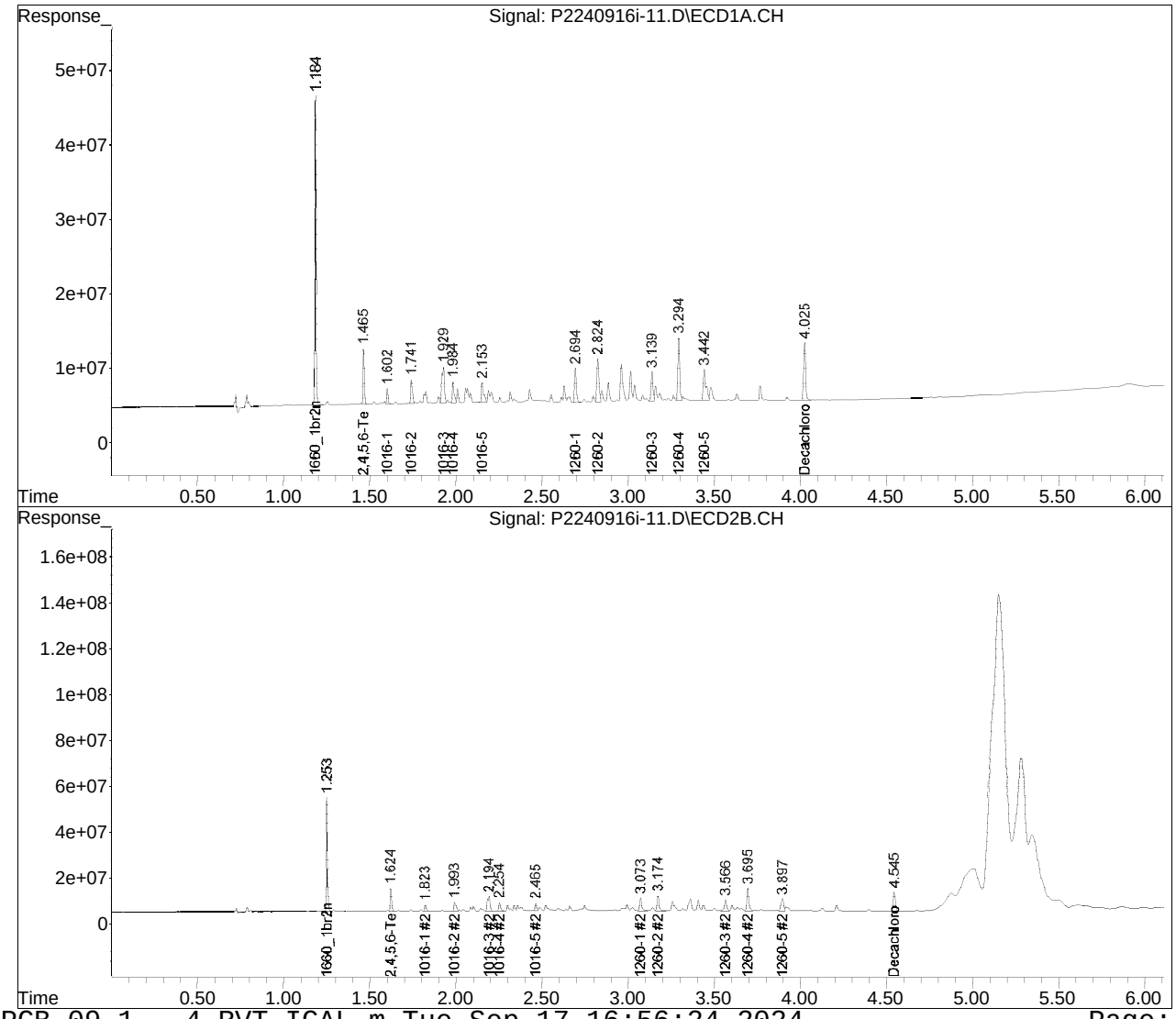
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:13 pm
Operator : pest2:kb/sdc
Sample : il61660,42,,pp11790 50PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:30:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:29:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

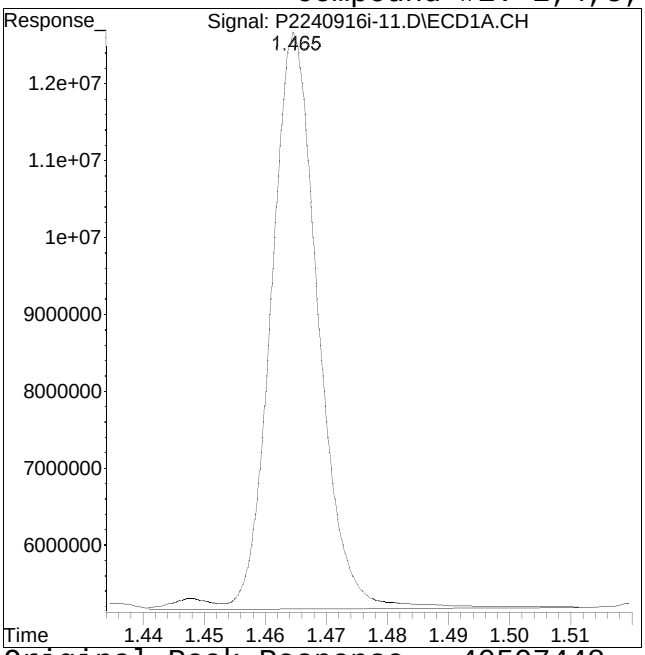
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

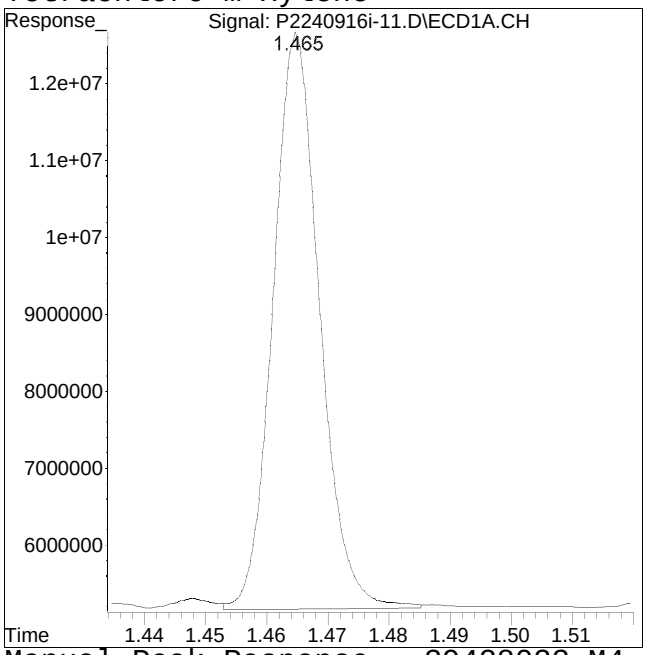


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-11.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:13 pm Instrument : Pest 2
Sample : il61660,42,,pp11790 50PPB Quant Date : 9/16/2024 4:30 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



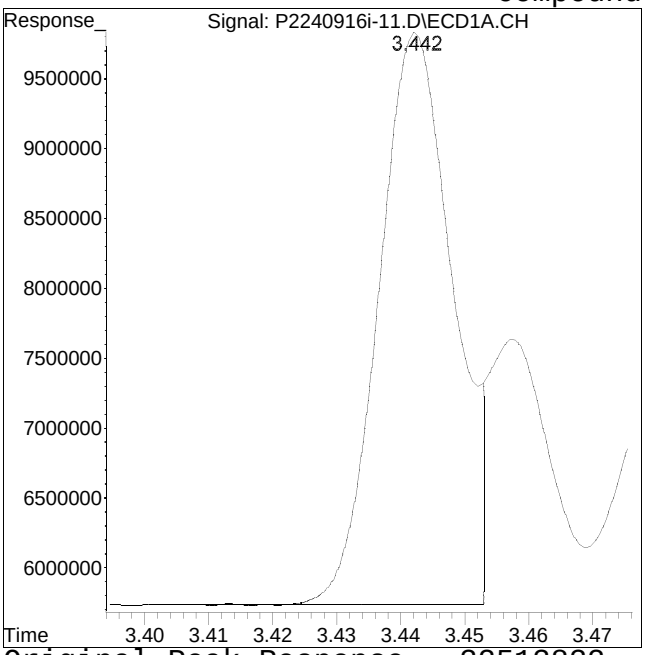


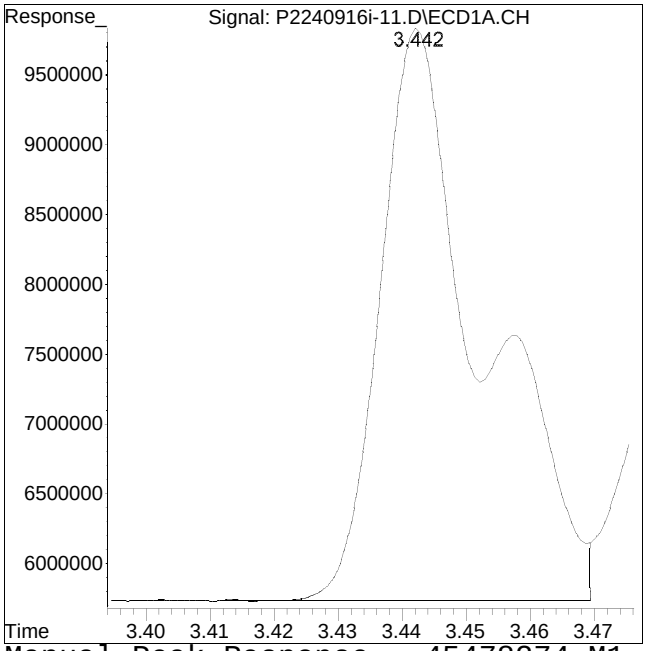
Original Peak Response = 40507448 Manual Peak Response = 39428033 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-11.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:13 pm Instrument : Pest 2
Sample : il61660,42,,pp11790 50PPB Quant Date : 9/16/2024 4:30 pm

Compound #13: 1260-5





Original Peak Response = 32513832 Manual Peak Response = 45478274 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:22 pm
Operator : pest2:kb/sdc
Sample : il71660,42,,pp11790 100PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:31:08 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:30:56 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.253	210.7E6	240.5E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.624	76441607	96600800	6.292	5.904
	Spiked Amount 500.000	Range 30 - 150		Recovery =		1.26%#	1.18%#
3) s	Decachlorobi	4.027	4.544	119.4E6	128.5E6	11.710	11.107
	Spiked Amount 500.000	Range 30 - 150		Recovery =		2.34%#	2.22%#
	Target Compounds						
4) l1	1016-1	1.603	1.824	22017271	28864311	92.028	91.929
5) l1	1016-2	1.743	1.994	47238846	64270248	89.804	95.644
6) l1	1016-3	1.931	2.195	95325099	123.2E6	95.495	91.422
7) l1	1016-4	1.985	2.255	38810588	49683299	91.030	90.850
8) l1	1016-5	2.155	2.465	42584511	42071374	88.703	97.915
	Sum 1016-1			246.0E6	308.1E6	457.061	467.760
	Average 1016-1					91.412	93.552
9) l2	1260-1	2.696	3.073	61018752	75472461	93.824	87.748
10) l2	1260-2	2.826	3.175	93199351	89344045	94.559	88.104
11) l2	1260-3	3.141	3.566	57022126	75028500	97.976	91.074
12) l2	1260-4	3.296	3.695	123.5E6	145.4E6	96.592M4	91.595
13) l2	1260-5	3.444	3.896	87596965	107.9E6	94.622M1	95.246
	Sum 1260-1			422.3E6	493.2E6	NoCal	NoCal D
	Average 1260-1					95.514	90.753
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:22 pm
Operator : pest2:kb/sdc
Sample : il71660,42,,pp11790 100PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:31:08 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:30:56 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:22 pm
Operator : pest2:kb/sdc
Sample : il71660,42,,pp11790 100PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:31:08 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:30:56 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

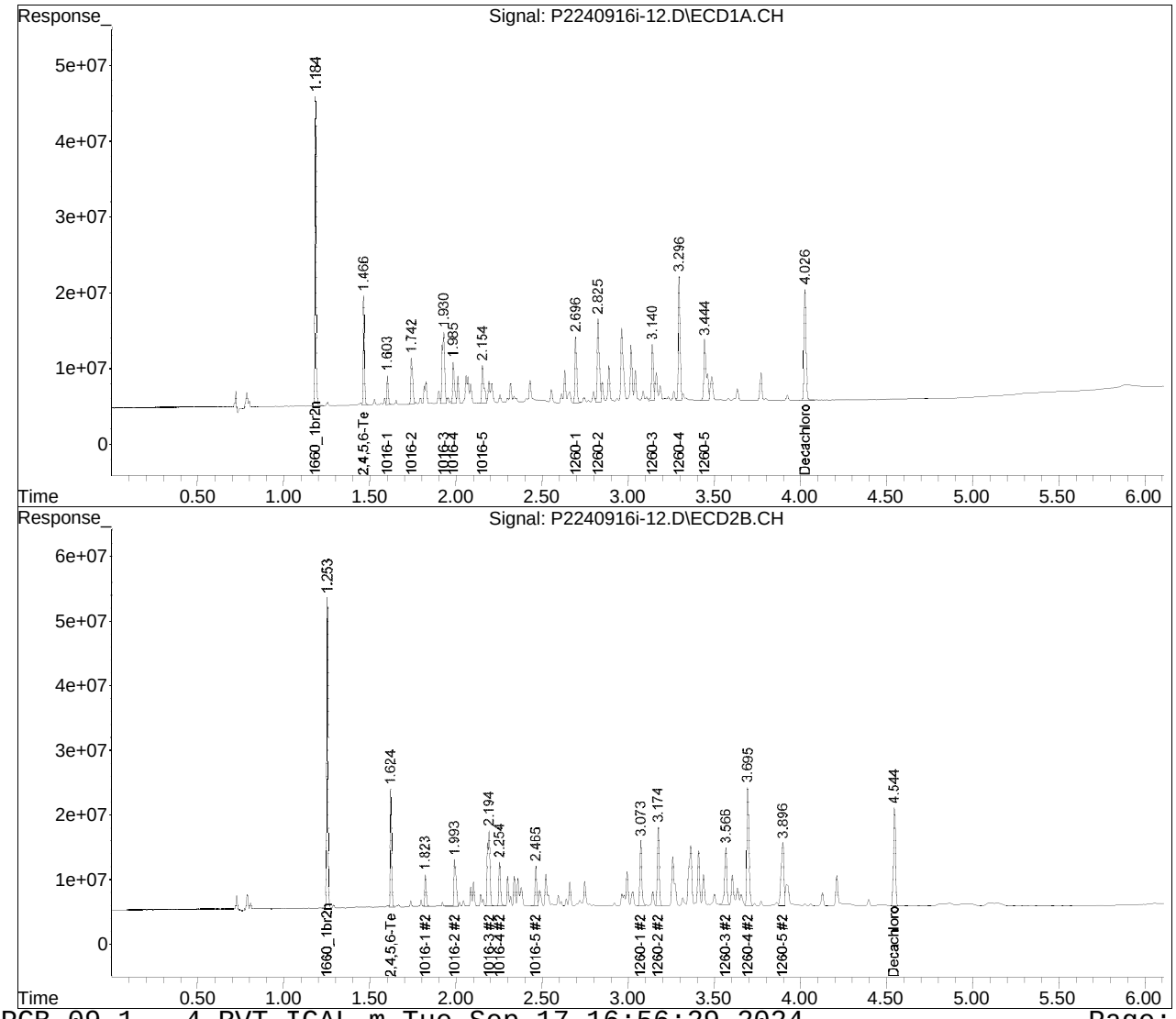
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:22 pm
Operator : pest2:kb/sdc
Sample : il71660,42,,pp11790 100PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:31:08 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:30:56 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

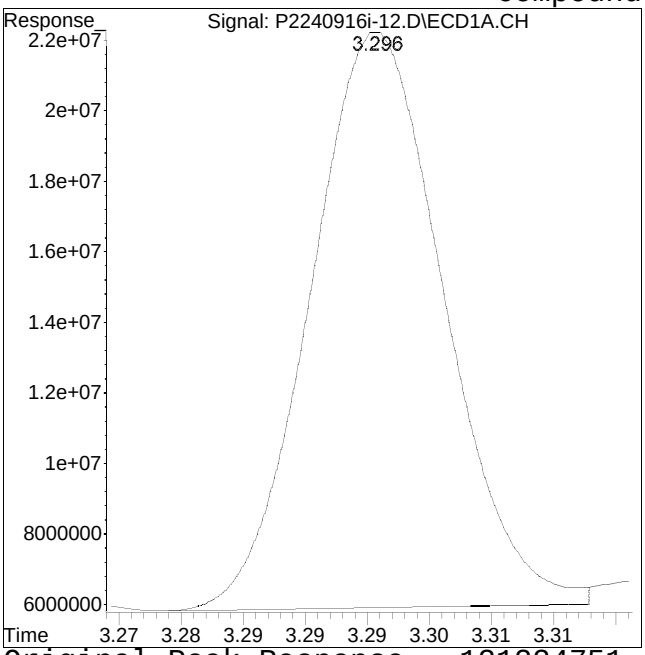
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

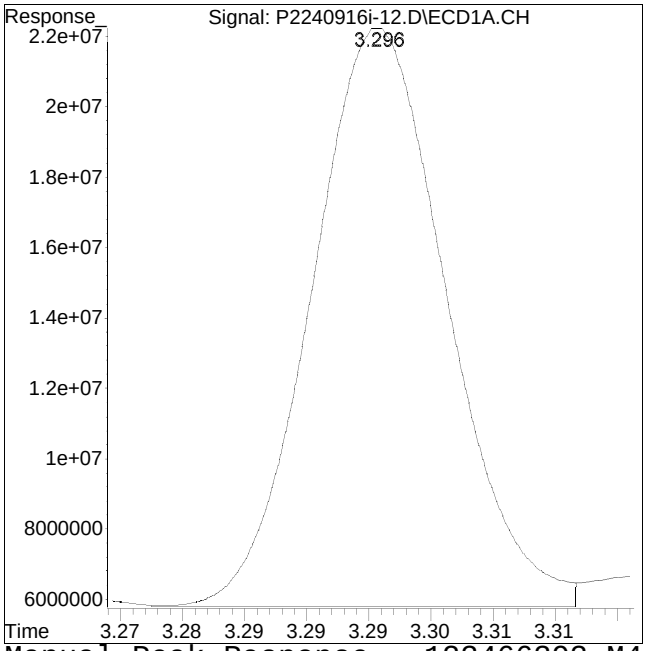


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-12.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:22 pm Instrument : Pest 2
Sample : il71660,42,,pp11790 100PPBQuant Date : 9/16/2024 4:31 pm

Compound #12: 1260-4



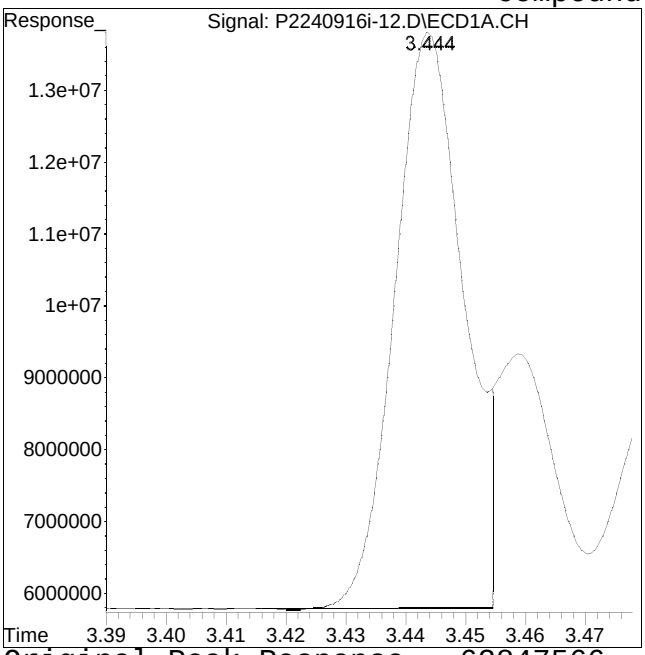


Original Peak Response = 121224751 Manual Peak Response = 123466393 M4
M4 = Poor automated baseline construction.

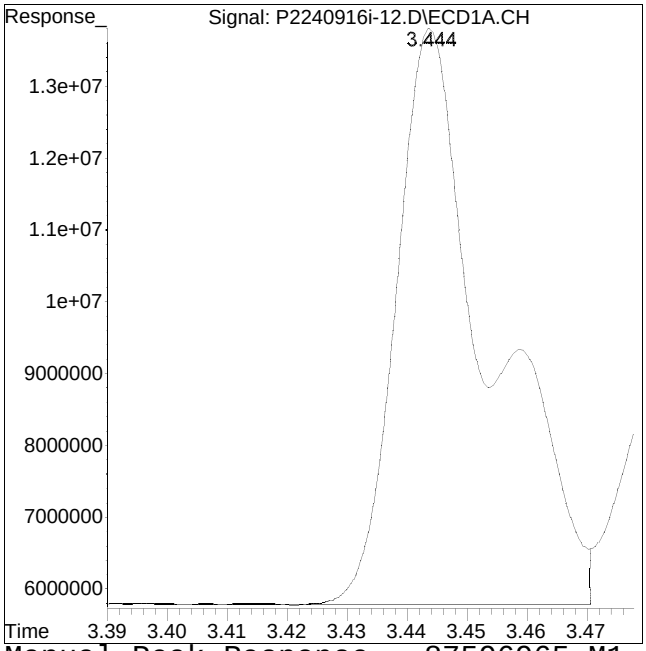
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-12.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:22 pm Instrument : Pest 2
Sample : il71660,42,,pp11790 100PPBQuant Date : 9/16/2024 4:31 pm

Compound #13: 1260-5



Original Peak Response = 62847566



Manual Peak Response = 87596965 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:30 pm
Operator : pest2:kb/sdc
Sample : il81660,42,,pp11790 250PPB
Misc : WG1972777,,
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:56:36 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:32:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	209.4E6	247.1E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	198.1E6	243.7E6	16.440	14.662
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.29%#	2.93%#
3) s	Decachlorobi	4.026	4.544	289.5E6	295.4E6	28.907	25.336
	Spiked Amount 500.000	Range 30 - 150		Recovery =		5.78%#	5.07%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	53816714	66436867	228.892	208.375
5) l1	1016-2	1.742	1.994	114.9E6	146.9E6	222.931	214.174
6) l1	1016-3	1.929	2.194	242.2E6	290.9E6	245.615	212.759
7) l1	1016-4	1.984	2.254	101.9E6	116.8E6	243.501	210.701
8) l1	1016-5	2.153	2.465	107.4E6	96028481	228.639	218.205
	Sum 1016-1			620.1E6	717.1E6	1169.577	1064.213
Average	1016-1					233.915	212.843
9) l2	1260-1	2.695	3.073	148.2E6	178.2E6	231.225	205.306
10) l2	1260-2	2.825	3.175	225.8E6	210.2E6	232.254	205.300
11) l2	1260-3	3.140	3.566	143.7E6	171.1E6	249.056	204.767
12) l2	1260-4	3.295	3.696	314.4E6	344.3E6	248.663	213.721
13) l2	1260-5	3.443	3.897	218.3E6	240.1E6	239.061	207.625
	Sum 1260-1			1050.4E6	1143.9E6	NoCal	NoCal D
Average	1260-1					240.052	207.344
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:30 pm
Operator : pest2:kb/sdc
Sample : il81660,42,,pp11790 250PPB
Misc : WG1972777,,
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:56:36 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:32:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:30 pm
Operator : pest2:kb/sdc
Sample : il81660,42,,pp11790 250PPB
Misc : WG1972777,,
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:56:36 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:32:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

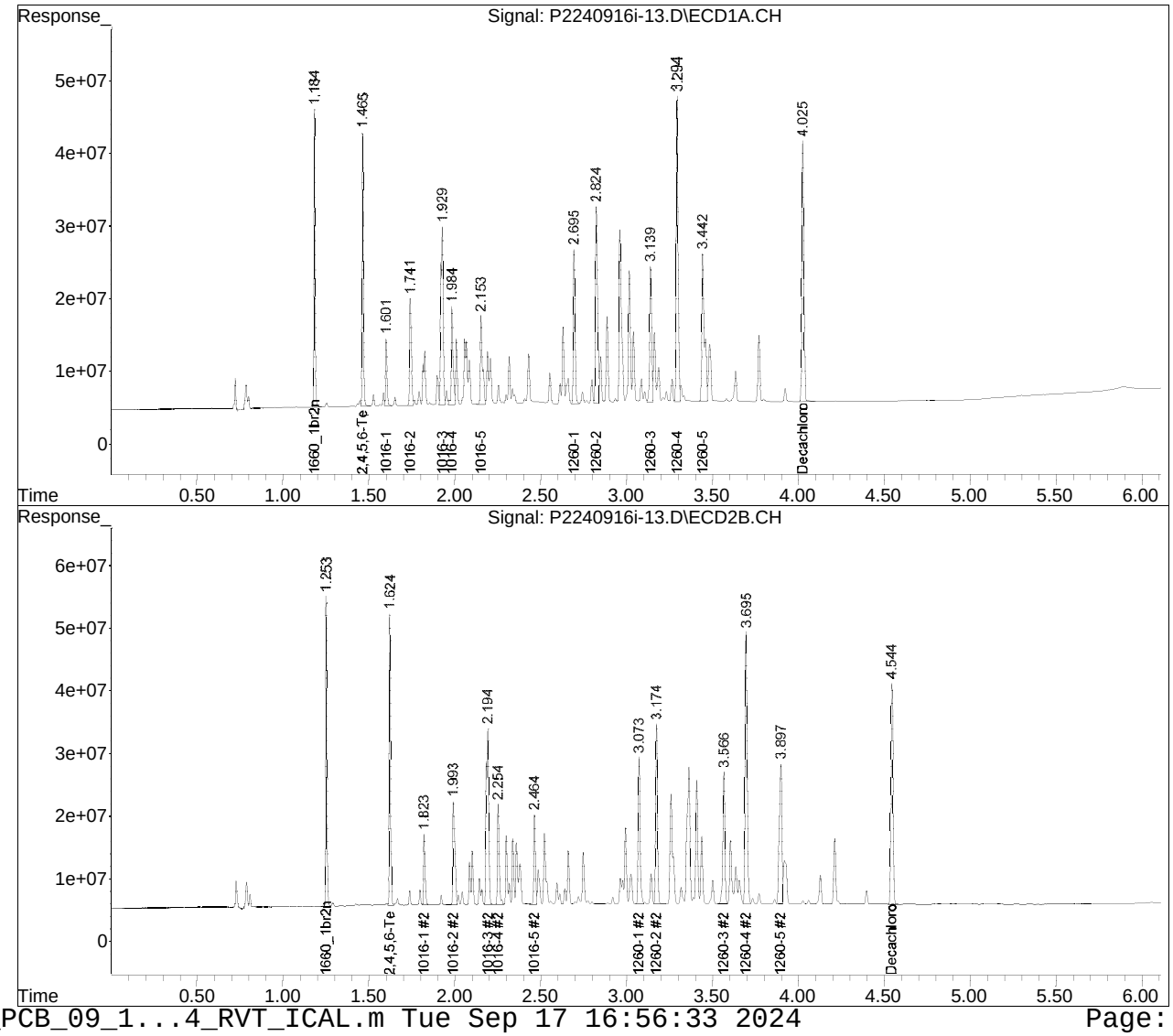
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:30 pm
Operator : pest2:kb/sdc
Sample : il81660,42,,pp11790 250PPB
Misc : WG1972777,,
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:56:36 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:32:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-13.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:30 pm Instrument : Pest 2
Sample : il81660,42,,pp11790 250PPBQuant Date : 9/16/2024 4:56 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:39 pm
Operator : pest2:kb/sdc
Sample : il91660,42,,pp11790 500PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:58:10 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:57:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	206.3E6	240.6E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.624	394.6E6	479.5E6	33.136	29.939
	Spiked Amount 500.000	Range 30 - 150		Recovery =		6.63%#	5.99%#
3) s	Decachlorobi	4.028	4.546	556.8E6	565.3E6	57.126	51.121
	Spiked Amount 500.000	Range 30 - 150		Recovery =		11.43%#	10.22%#
	Target Compounds						
4) l1	1016-1	1.603	1.823	102.8E6	122.9E6	448.557	404.315
5) l1	1016-2	1.743	1.994	219.3E6	268.6E6	437.984	409.461
6) l1	1016-3	1.930	2.195	477.4E6	547.7E6	492.570	419.329
7) l1	1016-4	1.985	2.255	196.6E6	217.3E6	478.609	410.689
8) l1	1016-5	2.155	2.465	206.7E6	173.8E6	451.741	412.201
Sum	1016-1			1202.8E6	1330.4E6	2309.461	2055.995
Average	1016-1					461.892	411.199
9) l2	1260-1	2.696	3.074	290.4E6	332.2E6	464.353	402.053
10) l2	1260-2	2.826	3.176	442.3E6	394.0E6	466.004	404.192
11) l2	1260-3	3.141	3.567	279.4E6	325.4E6	491.884	409.295
12) l2	1260-4	3.297	3.696	615.3E6	665.2E6	494.292	432.005
13) l2	1260-5	3.444	3.898	426.7E6	461.7E6	476.947	418.995
Sum	1260-1			2054.1E6	2178.6E6	NoCal	NoCal D
Average	1260-1					478.696	413.308
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:39 pm
Operator : pest2:kb/sdc
Sample : il91660,42,,pp11790 500PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:58:10 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:57:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:39 pm
Operator : pest2:kb/sdc
Sample : il91660,42,,pp11790 500PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:58:10 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:57:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

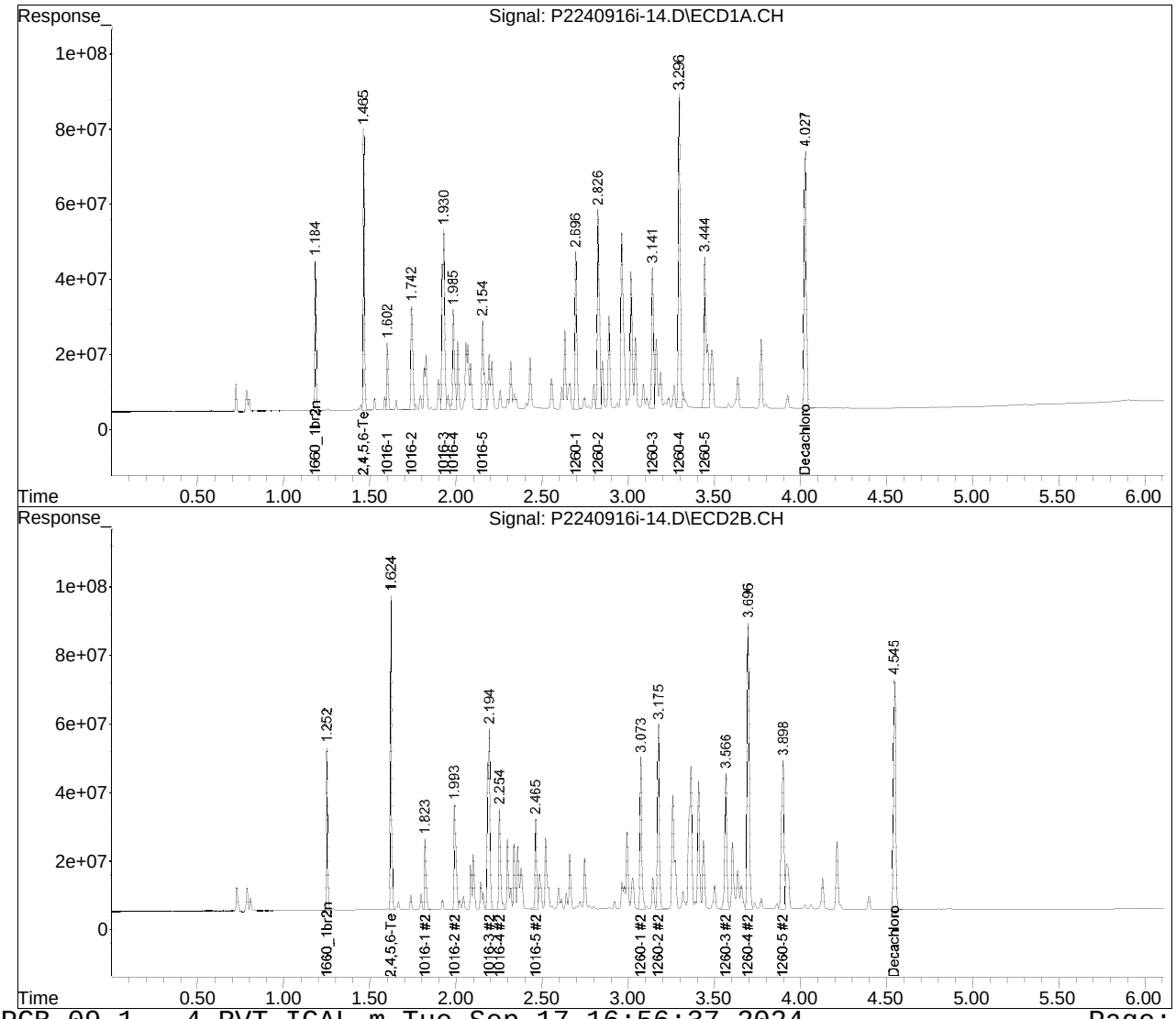
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:39 pm
Operator : pest2:kb/sdc
Sample : il91660,42,,pp11790 500PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:58:10 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:57:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-14.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:39 pm Instrument : Pest 2
Sample : il91660,42,,pp11790 500PPBQuant Date : 9/16/2024 4:58 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:48 pm
Operator : pest2:kb/sdc
Sample : il101660,42,,pp11790 1000PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:59:04 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:58:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	213.9E6	249.2E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	804.8E6	964.9E6	64.917	58.578
	Spiked Amount 500.000	Range 30 - 150		Recovery =		12.98%#	11.72%#
3) s	Decachlorobi	4.027	4.545	1134.0E6	1148.2E6	113.551	102.519
	Spiked Amount 500.000	Range 30 - 150		Recovery =		22.71%#	20.50%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	200.2E6	235.5E6	852.356	764.041
5) l1	1016-2	1.742	1.994	431.5E6	519.6E6	842.627M3	780.292
6) l1	1016-3	1.930	2.194	958.5E6	1090.3E6	955.450	820.441
7) l1	1016-4	1.984	2.254	392.5E6	428.8E6	925.916	797.902
8) l1	1016-5	2.154	2.465	410.0E6	345.4E6	873.459	806.498
	Sum 1016-1			2392.8E6	2619.6E6	4449.807	3969.173
	Average 1016-1					889.961	793.835
9) l2	1260-1	2.695	3.073	588.5E6	655.9E6	914.891	783.269
10) l2	1260-2	2.825	3.175	898.4E6	783.6E6	919.719	792.833
11) l2	1260-3	3.140	3.566	575.2E6	648.6E6	978.288	803.666
12) l2	1260-4	3.296	3.696	1278.5E6	1348.5E6	991.785	858.288
13) l2	1260-5	3.443	3.897	893.2E6	933.2E6	967.764M1	832.359
	Sum 1260-1			4233.8E6	4369.8E6	NoCal	NoCal D
	Average 1260-1					954.489	814.083
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:48 pm
Operator : pest2:kb/sdc
Sample : il101660,42,,pp11790 1000PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:59:04 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:58:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:48 pm
Operator : pest2:kb/sdc
Sample : il101660,42,,pp11790 1000PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:59:04 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:58:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

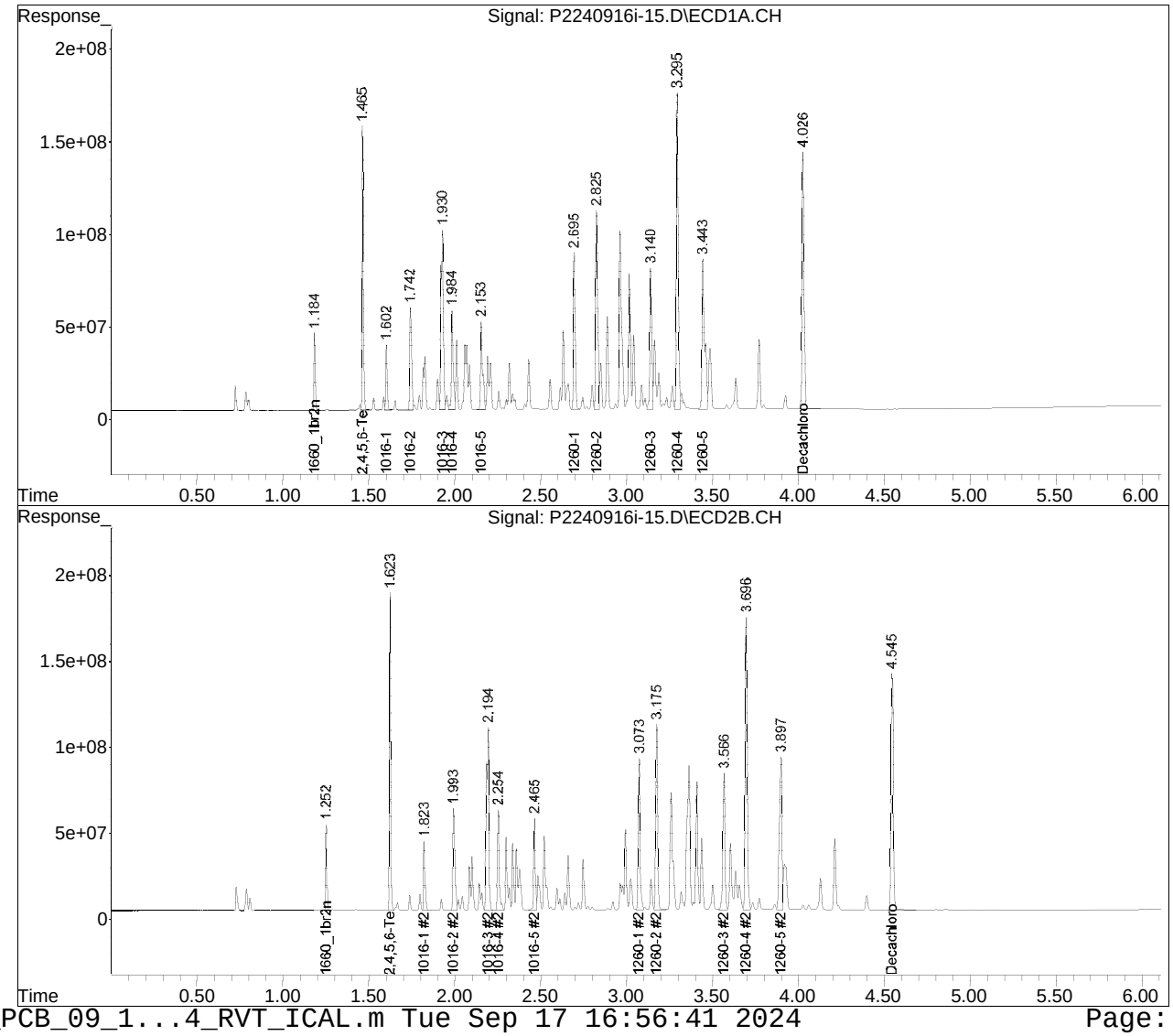
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:48 pm
Operator : pest2:kb/sdc
Sample : il101660,42,,pp11790 1000PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:59:04 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:58:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

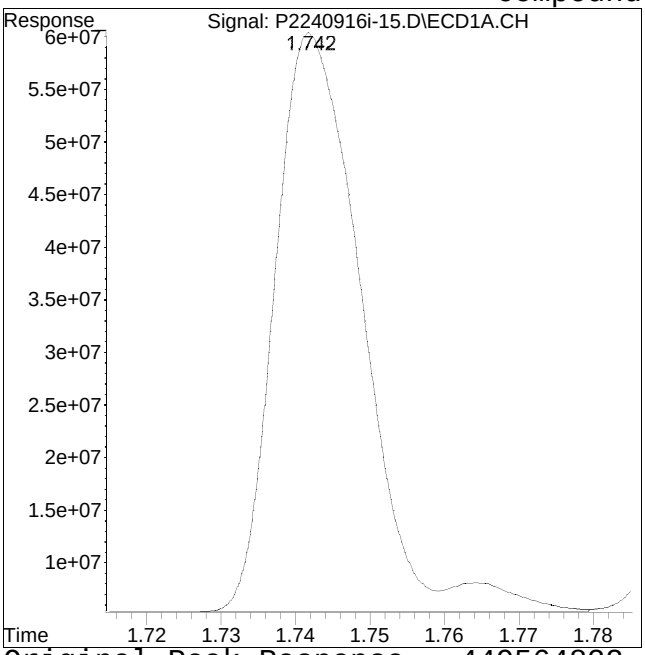
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

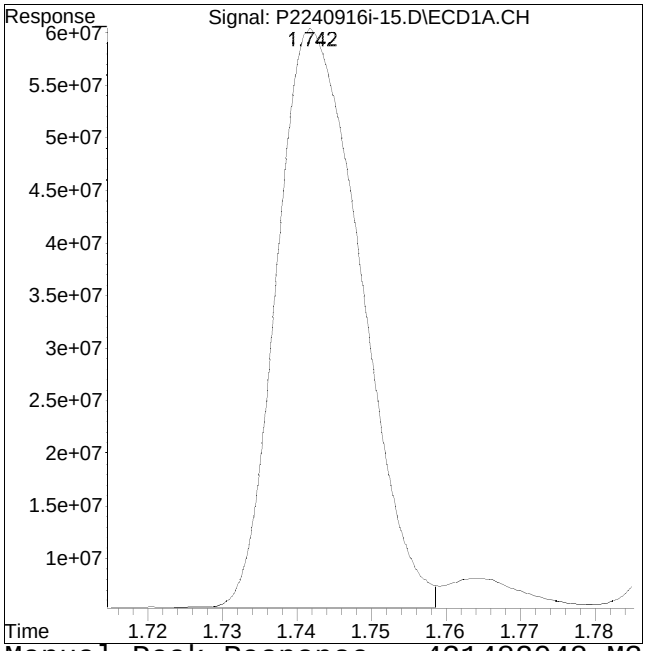


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-15.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:48 pm Instrument : Pest 2
Sample : il101660,42,,pp11790 1000PQuant Date : 9/16/2024 4:59 pm

Compound #5: 1016-2



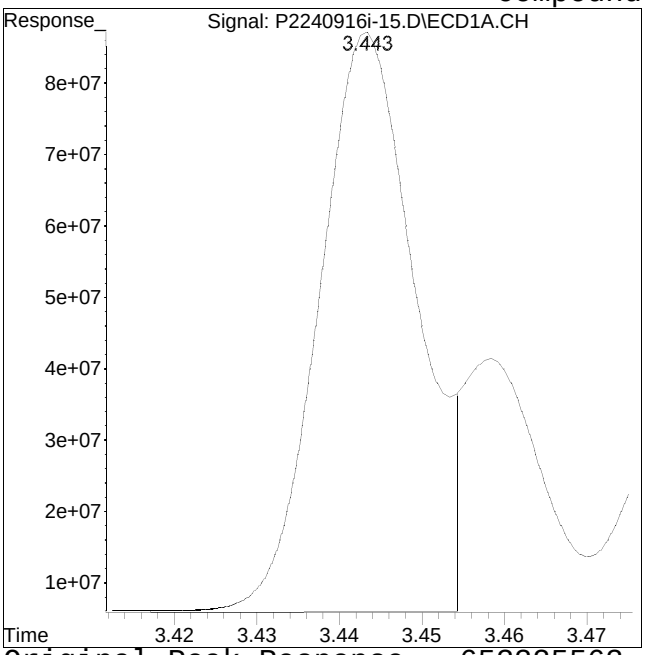


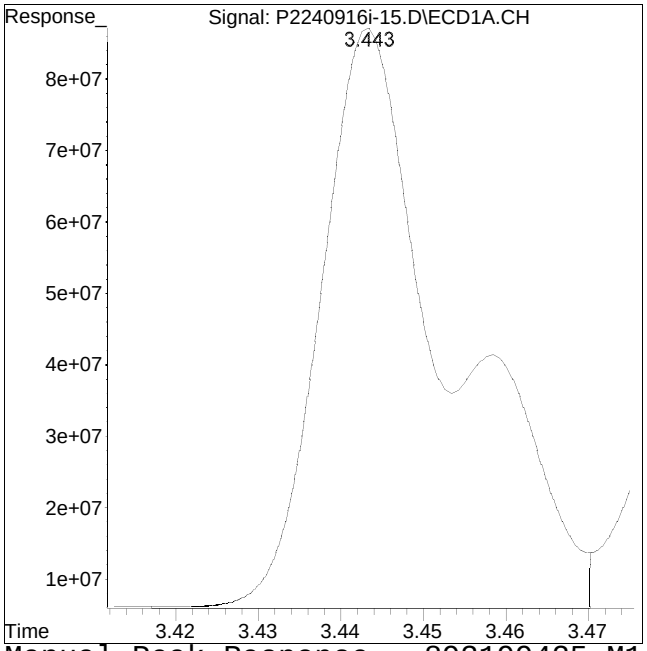
Original Peak Response = 449564822 Manual Peak Response = 431482048 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-15.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:48 pm Instrument : Pest 2
Sample : il101660,42,,pp11790 1000PQuant Date : 9/16/2024 4:59 pm

Compound #13: 1260-5





Original Peak Response = 653325563 Manual Peak Response = 893199425 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   4:56 pm
Operator : pest2:kb/sdc
Sample   : cicv1660,42,, ICV 250 pp11765
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.427	1.7	96	0.00
3	s	Decachlorobiphenyl		1.154	1.071	7.2	98	0.00
4	l1	1016-1		0.027	0.024	11.1	94	0.00
5	l1	1016-2		0.059	0.057	3.4	103	0.00
6	l1	1016-3		0.117	0.120	-2.6	103	0.00
7	l1	1016-4		0.049	0.050	-2.0	102	0.00
8	l1	1016-5		0.054	0.050	7.4	97	0.00
9	l2	1260-1		0.075	0.075	0.0	105	0.00
10	l2	1260-2		0.113	0.118	-4.4	108	0.00
11	l2	1260-3		0.069	0.063	8.7	90	0.00
12	l2	1260-4		0.151	0.135	10.6	89	0.00
13	l2	1260-5		0.108	0.099	8.3	94	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.471	10.2	93	0.00
3	s	Decachlorobiphenyl		1.101	0.971	11.8	102	0.00
4	l1	1016-1		0.030	0.026	13.3	96	0.00
5	l1	1016-2		0.065	0.062	4.6	103	0.00
6	l1	1016-3		0.131	0.125	4.6	104	0.00
7	l1	1016-4		0.053	0.050	5.7	104	0.00
8	l1	1016-5		0.042	0.040	4.8	101	0.00
9	l2	1260-1		0.082	0.080	2.4	109	0.00
10	l2	1260-2		0.097	0.090	7.2	103	0.00
11	l2	1260-3		0.079	0.067	15.2	95	0.00
12	l2	1260-4		0.155	0.131	15.5	92	0.00
13	l2	1260-5		0.111	0.097	12.6	98	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   4:56 pm
Operator : pest2:kb/sdc
Sample   : cicv1660,42,, ICV 250 pp11765
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
Evaluate Continuing Calibration Report - Not Founds								
14	i	2154_1br2nb	^	1.000	1.000	0.0	0	-1.18#
15	l3	1221-1		0.015	0.000	100.0#	0#	-1.53#
16	l3	1221-2		0.00922	0.00000	100.0#	0#	-1.59#
17	l3	1221-3		0.037	0.000	100.0#	0#	-1.60#
18	l4	1254-1		0.052	0.000	100.0#	0#	-2.32#
19	l4	1254-2		0.093	0.000	100.0#	0#	-2.43#
20	l4	1254-3		0.101	0.000	100.0#	0#	-2.61#
21	l4	1254-4		0.071	0.000	100.0#	0#	-2.74#
22	l4	1254-5		0.099	0.000	100.0#	0#	-2.96#
23	i	4268_1br2nb	^	1.000	1.000	0.0	0	-1.18#
24	l6	1242-1		0.021	0.000	100.0#	0#	-1.60#
25	l6	1242-2		0.046	0.000	100.0#	0#	-1.74#
26	l6	1242-3		0.096	0.000	100.0#	0#	-1.93#
27	l6	1242-4		0.040	0.000	100.0#	0#	-1.98#
28	l6	1242-5		0.032	0.000	100.0#	0#	-2.34#
29	l9	1268-1		0.209	0.000	100.0#	0#	-3.46#
30	l9	1268-2		0.189	0.000	100.0#	0#	-3.48#
31	l9	1268-3		0.154	0.000	100.0#	0#	-3.58#
32	l9	1268-4		0.067	0.000	100.0#	0#	-3.77#
33	l9	1268-5		0.467	0.000	100.0#	0#	-3.92#
34	i	1248_1br2nb	^	1.000	1.000	0.0	0	-1.18#
35	l7	1248-1		0.060	0.000	100.0#	0#	-1.93#
36	l7	1248-2		0.078	0.000	100.0#	0#	-2.06#
37	l7	1248-3		0.070	0.000	100.0#	0#	-2.15#
38	l7	1248-4		0.060	0.000	100.0#	0#	-2.34#
39	l7	1248-5		0.056	0.000	100.0#	0#	-2.35#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   4:56 pm
Operator : pest2:kb/sdc
Sample   : cicv1660,42,, ICV 250 pp11765
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
40	i	3262_1br2nb	^	1.000	1.000	0.0	0	-1.19#
41	l5	1232-1		0.029	0.000	100.0#	0#	-1.60#
42	l5	1232-2		0.027	0.000	100.0#	0#	-1.74#
43	l5	1232-3		0.055	0.000	100.0#	0#	-1.93#
44	l5	1232-4		0.023	0.000	100.0#	0#	-1.99#
45	l5	1232-5		0.017	0.000	100.0#	0#	-2.34#
46	l8	1262-1		0.083	0.000	100.0#	0#	-2.83#
47	l8	1262-2		0.105	0.000	100.0#	0#	-3.02#
48	l8	1262-3		0.091	0.000	100.0#	0#	-3.14#
49	l8	1262-4		0.185	0.000	100.0#	0#	-3.30#
50	l8	1262-5		0.059	0.000	100.0#	0#	-3.77#

Signal #2

14	i	2154_1br2nb	^	1.000	1.000	0.0	0	-1.25#
15	l3	1221-1		0.017	0.000	100.0#	0#	-1.74#
16	l3	1221-2		0.011	0.000	100.0#	0#	-1.80#
17	l3	1221-3		0.040	0.000	100.0#	0#	-1.82#
18	l4	1254-1		0.062	0.000	100.0#	0#	-2.66#
19	l4	1254-2		0.073	0.000	100.0#	0#	-2.75#
20	l4	1254-3		0.109	0.000	100.0#	0#	-2.98#
21	l4	1254-4		0.073	0.000	100.0#	0#	-3.09#
22	l4	1254-5		0.101	0.000	100.0#	0#	-3.36#
23	i	4268_1br2nb	^	1.000	1.000	0.0	0	-1.25#
24	l6	1242-1		0.021	0.000	100.0#	0#	-1.82#
25	l6	1242-2		0.048	0.000	100.0#	0#	-1.99#
26	l6	1242-3		0.095	0.000	100.0#	0#	-2.19#
27	l6	1242-4		0.039	0.000	100.0#	0#	-2.25#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   4:56 pm
Operator : pest2:kb/sdc
Sample   : cicv1660,42,, ICV 250 pp11765
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	l6	1242-5		0.031	0.000	100.0#	0#	-2.64#
29	l9	1268-1		0.190	0.000	100.0#	0#	-3.89#
30	l9	1268-2		0.169	0.000	100.0#	0#	-3.92#
31	l9	1268-3		0.141	0.000	100.0#	0#	-4.06#
32	l9	1268-4		0.062	0.000	100.0#	0#	-4.21#
33	l9	1268-5		0.399	0.000	100.0#	0#	-4.40#
34	i	1248_1br2nb	^	1.000	1.000	0.0	0	-1.25#
35	l7	1248-1		0.062	0.000	100.0#	0#	-2.19#
36	l7	1248-2		0.043	0.000	100.0#	0#	-2.34#
37	l7	1248-3		0.053	0.000	100.0#	0#	-2.47#
38	l7	1248-4		0.060	0.000	100.0#	0#	-2.64#
39	l7	1248-5		0.067	0.000	100.0#	0#	-2.66#
40	i	3262_1br2nb	^	1.000	1.000	0.0	0	-1.25#
41	l5	1232-1		0.030	0.000	100.0#	0#	-1.82#
42	l5	1232-2		0.031	0.000	100.0#	0#	-1.99#
43	l5	1232-3		0.060	0.000	100.0#	0#	-2.20#
44	l5	1232-4		0.024	0.000	100.0#	0#	-2.26#
45	l5	1232-5		0.018	0.000	100.0#	0#	-2.64#
46	l8	1262-1		0.073	0.000	100.0#	0#	-3.18#
47	l8	1262-2		0.101	0.000	100.0#	0#	-3.41#
48	l8	1262-3		0.091	0.000	100.0#	0#	-3.57#
49	l8	1262-4		0.174	0.000	100.0#	0#	-3.70#
50	l8	1262-5		0.062	0.000	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:56 pm
Operator : pest2:kb/sdc
Sample : cicv1660,42,, ICV 250 pp11765
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	207.5E6	241.8E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	189.5E6	227.7E6	15.734	14.369
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.15%#	2.87%#
3) s	Decachlorobi	4.026	4.546	284.6E6	300.6E6	29.709	28.227
	Spiked Amount 500.000	Range 30 - 150		Recovery =		5.94%#	5.65%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	50606294	63958975	225.388	219.107
5) l1	1016-2	1.742	1.994	118.2E6	150.6E6	241.846	238.413
6) l1	1016-3	1.930	2.195	249.4E6	302.5E6	257.436	238.973
7) l1	1016-4	1.985	2.254	103.5E6	121.2E6	253.545	237.312M3
8) l1	1016-5	2.154	2.465	104.7E6	96973955	232.767	238.013
	Sum 1016-1			626.4E6	735.3E6	1210.982	1171.817
Average	1016-1					242.196	234.363
9) l2	1260-1	2.695	3.073	155.4E6	194.0E6	251.189	244.146
10) l2	1260-2	2.825	3.175	244.6E6	217.1E6	260.221	231.239
11) l2	1260-3	3.140	3.566	130.0E6	163.2E6	228.428	212.615
12) l2	1260-4	3.295	3.696	280.0E6	317.0E6	224.090	210.968
13) l2	1260-5	3.443	3.898	204.9E6	234.4E6	229.547	219.185
	Sum 1260-1			1014.9E6	1125.7E6	NoCal	NoCal D
Average	1260-1					238.695	223.631
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:56 pm
Operator : pest2:kb/sdc
Sample : cicv1660,42,, ICV 250 pp11765
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:56 pm
Operator : pest2:kb/sdc
Sample : cicv1660,42,, ICV 250 pp11765
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

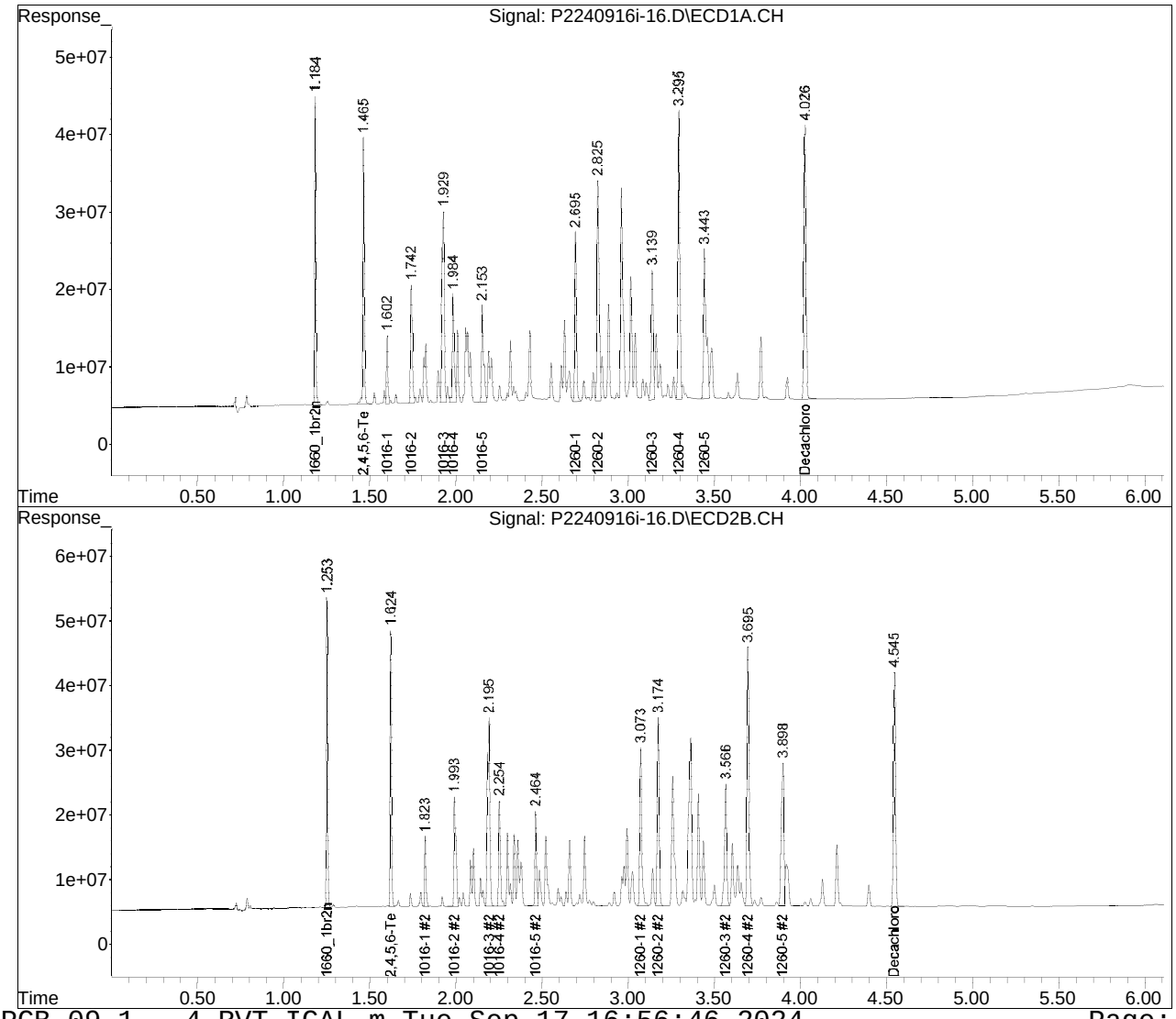
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:56 pm
Operator : pest2:kb/sdc
Sample : cicv1660,42,, ICV 250 pp11765
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

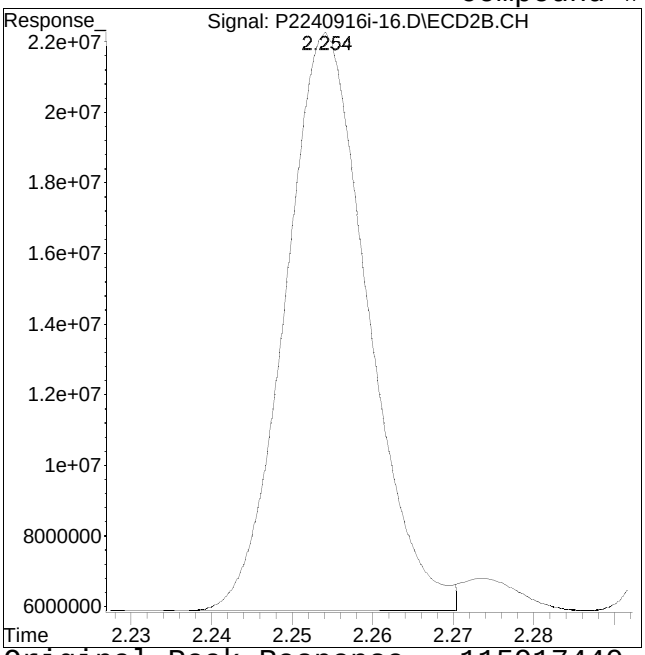
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

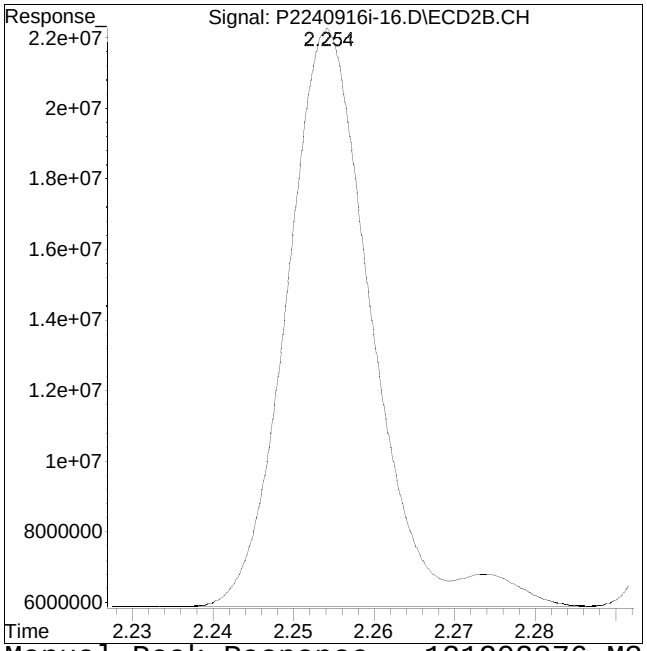


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-16.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:56 pm Instrument : Pest 2
Sample : cicv1660,42,, ICV 250 pp11Quant Date : 9/16/2024 5:05 pm

Compound #58: 1016-4 #2





Original Peak Response = 115917440 Manual Peak Response = 121202876 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:14 pm
Operator : pest2:kb/sdc
Sample : il82154,42,, 250 pp11766
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:46:07 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:45:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	1.185	1.253	215.5E6	246.9E6	25.000	25.000M4
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-1	1.528	1.738	32214968	43006075	250.084	214.878
16) l3	1221-2	1.586	1.798	19872002	27225760	236.799	241.463

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:14 pm
Operator : pest2:kb/sdc
Sample : il82154,42,, 250 pp11766
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:46:07 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:45:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	1.603	1.824	79473918	98685926	232.143	231.833
Sum	1221-1			131.6E6	168.9E6	719.026	688.175
Average	1221-1					239.675	229.392
18) l4	1254-1	2.318	2.662	113.1E6	153.6E6	251.864	235.750
19) l4	1254-2	2.430	2.749	201.2E6	180.1E6	266.589	243.450
20) l4	1254-3	2.613	2.978	218.2E6	267.9E6	240.465	225.681
21) l4	1254-4	2.743	3.089	153.9E6	179.0E6	240.276	215.193
22) l4	1254-5	2.964	3.364	212.7E6	248.8E6	235.784	244.611
Sum	1254-1			899.2E6	1029.3E6	NoCal	NoCal D
Average	1254-1					246.995	232.937
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:14 pm
Operator : pest2:kb/sdc
Sample : il82154,42,, 250 pp11766
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:46:07 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:45:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

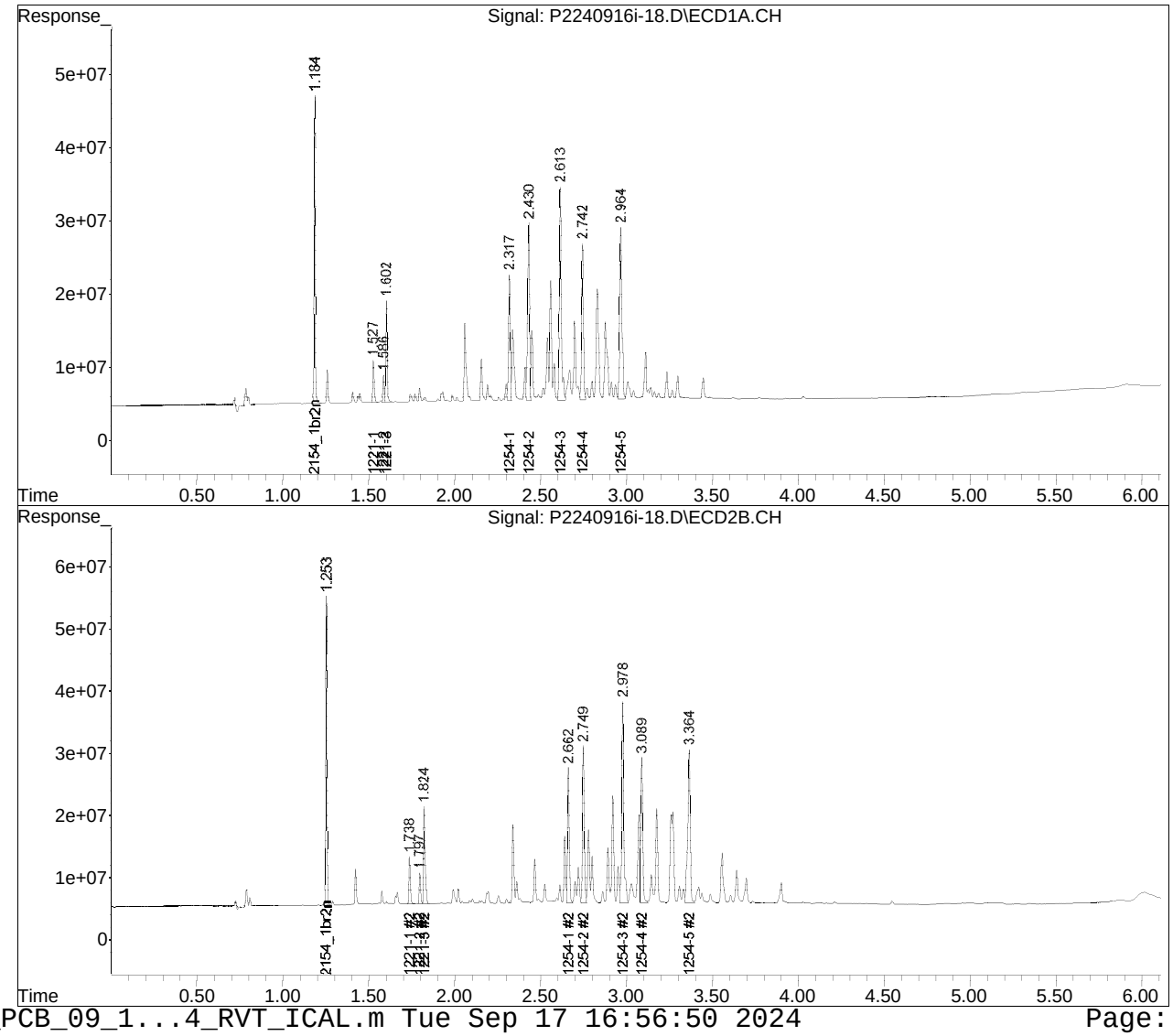
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:14 pm
Operator : pest2:kb/sdc
Sample : il82154,42,, 250 pp11766
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:46:07 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:45:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

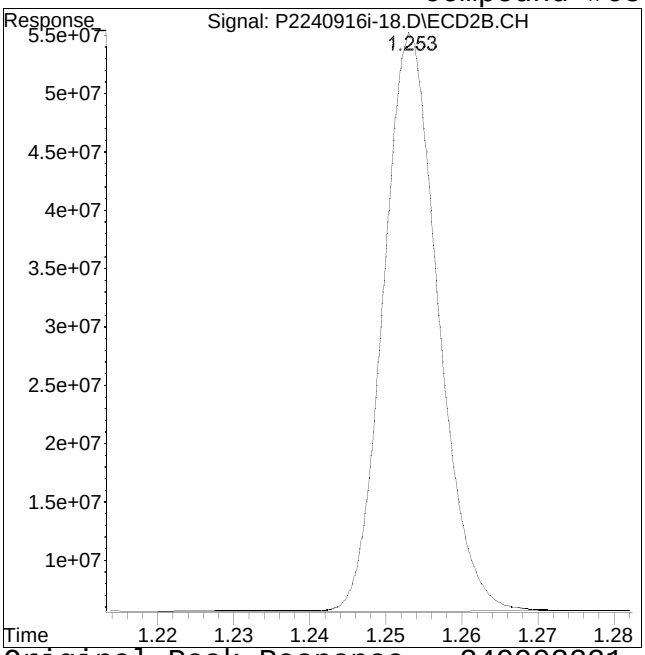
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

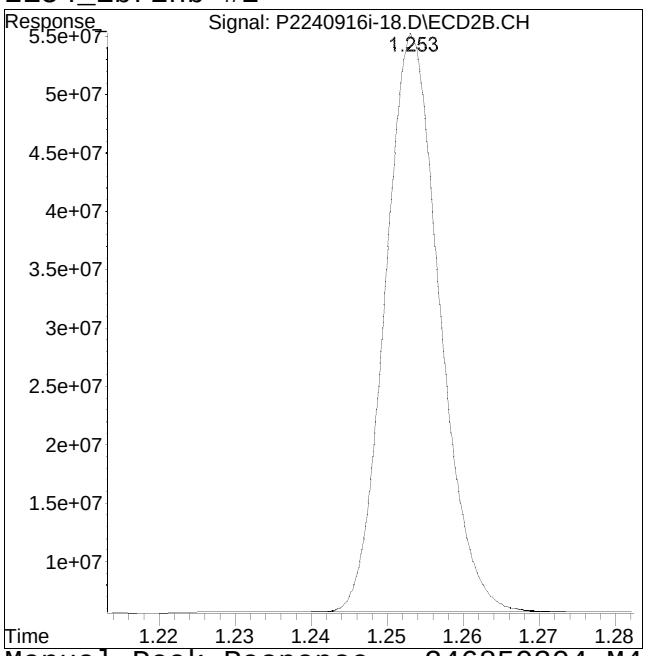


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-18.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:14 pm Instrument : Pest 2
Sample : il82154,42,, 250 pp11766 Quant Date : 9/17/2024 10:46 am

Compound #65: 2154_1br2nb #2





Original Peak Response = 249903221 Manual Peak Response = 246850304 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:23 pm
Operator : pest2:kb/sdc
Sample : il81248,42,, 250 pp11767
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:50:35 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:50:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	1.185	1.253	207.0E6	246.7E6	25.000	25.000M4
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D.	N.D.
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:23 pm
Operator : pest2:kb/sdc
Sample : il81248,42,, 250 pp11767
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:50:35 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:50:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.927	2.186	124.4E6	154.0E6	244.542	251.173
36) l7	1248-2	2.059	2.339	162.4E6	105.4E6	252.084M3	255.629
37) l7	1248-3	2.155	2.465	145.3E6	130.2E6	251.859	241.978
38) l7	1248-4	2.336	2.640	123.3E6	146.9E6	243.705M3	248.148

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:23 pm
Operator : pest2:kb/sdc
Sample : il81248,42,, 250 pp11767
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:50:35 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:50:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	2.349	2.664	114.9E6	164.9E6	243.648M3	248.334
Sum	1248-1			670.3E6	701.4E6	NoCal	NoCal D
Average	1248-1					247.167	249.052
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

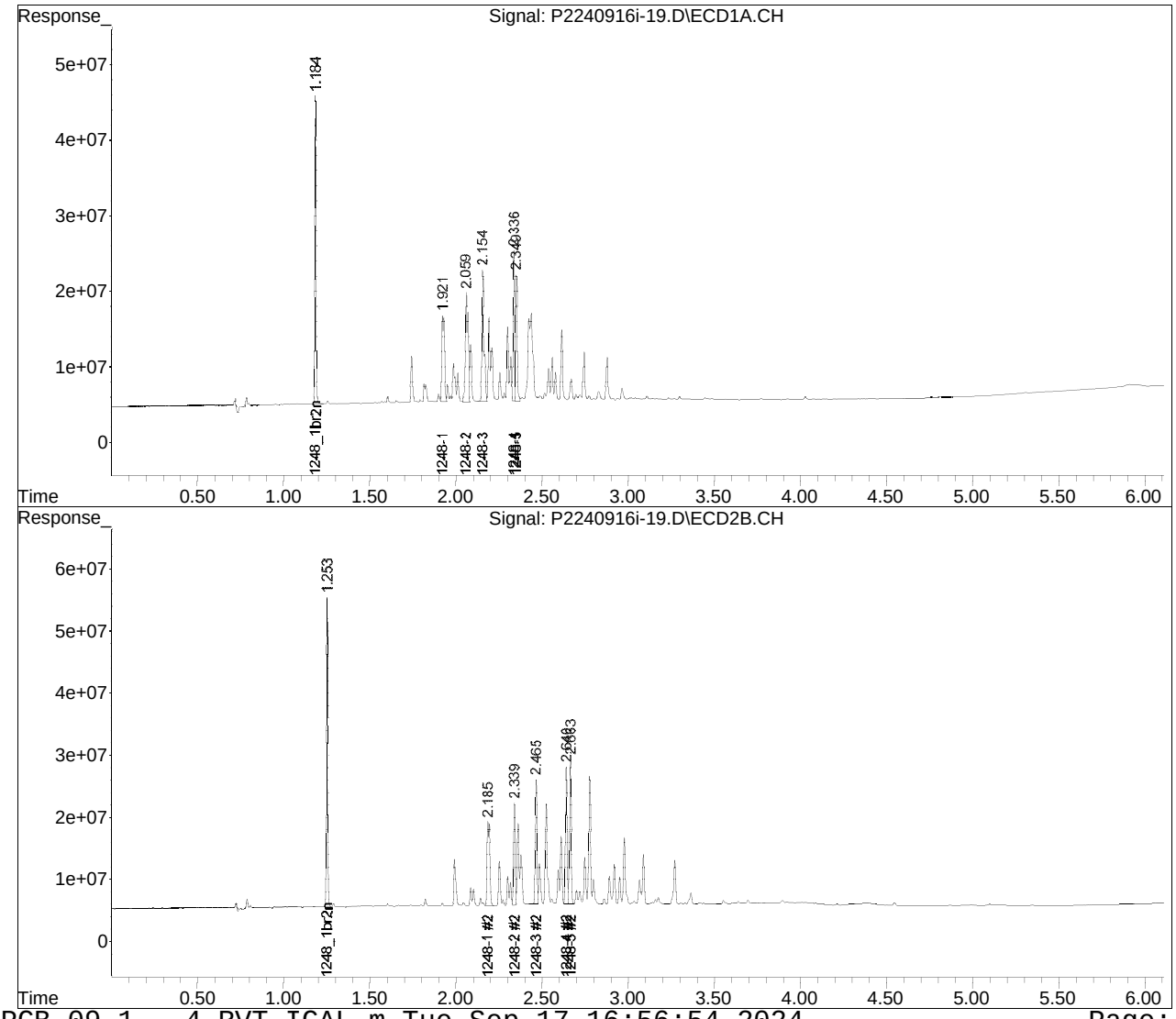
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:23 pm
Operator : pest2:kb/sdc
Sample : il81248,42,, 250 pp11767
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:50:35 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:50:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

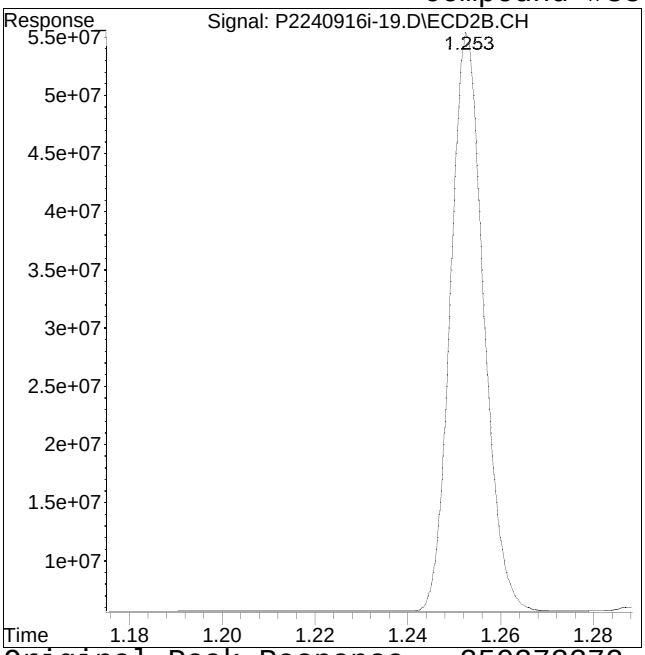
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

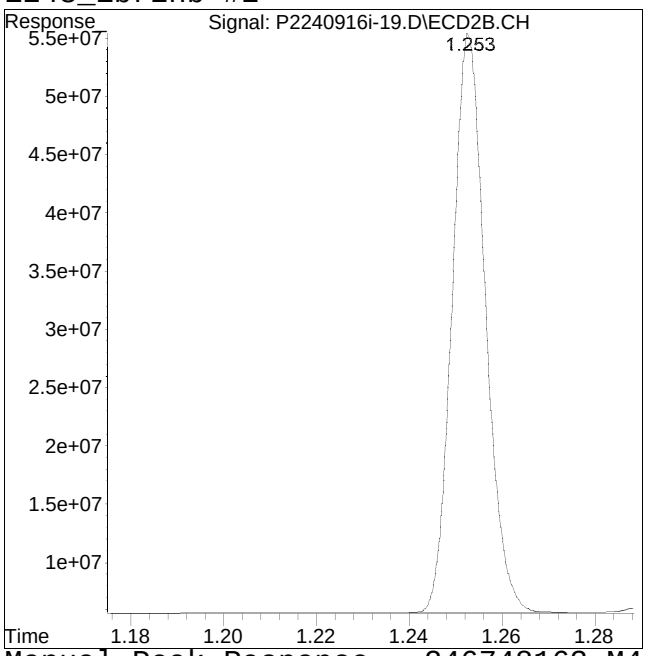


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-19.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:23 pm Instrument : Pest 2
Sample : il81248,42,, 250 pp11767 Quant Date : 9/17/2024 10:50 am

Compound #85: 1248_1br2nb #2



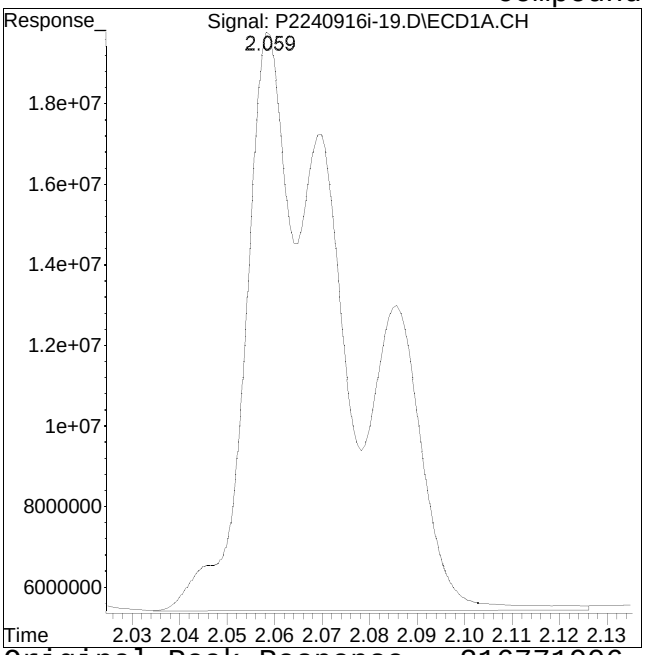


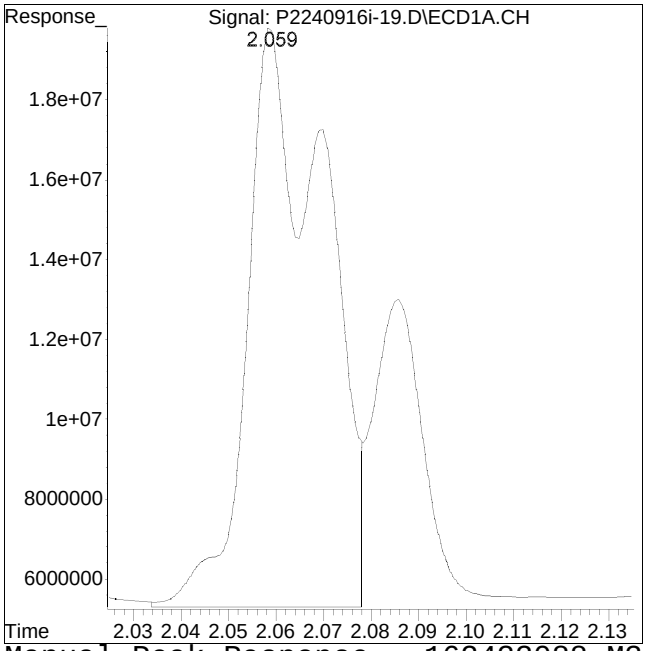
Original Peak Response = 250373372 Manual Peak Response = 246748163 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-19.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:23 pm Instrument : Pest 2
Sample : il81248,42,, 250 pp11767 Quant Date : 9/17/2024 10:50 am

Compound #36: 1248-2



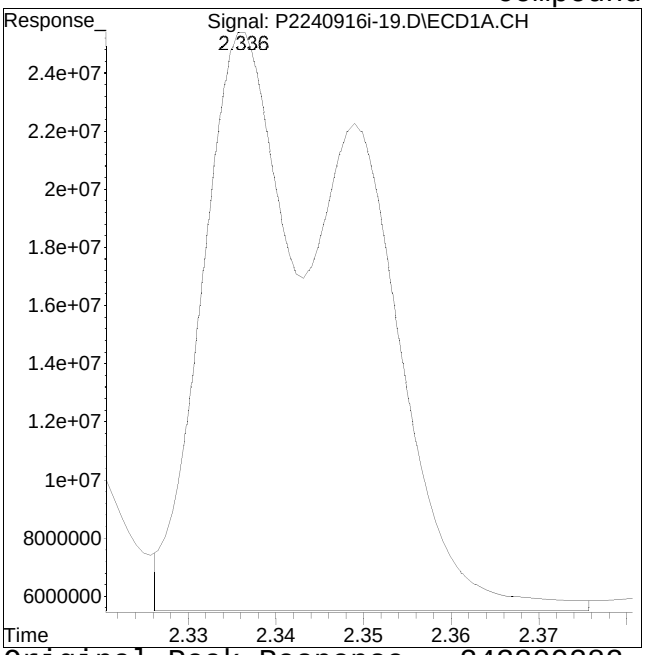


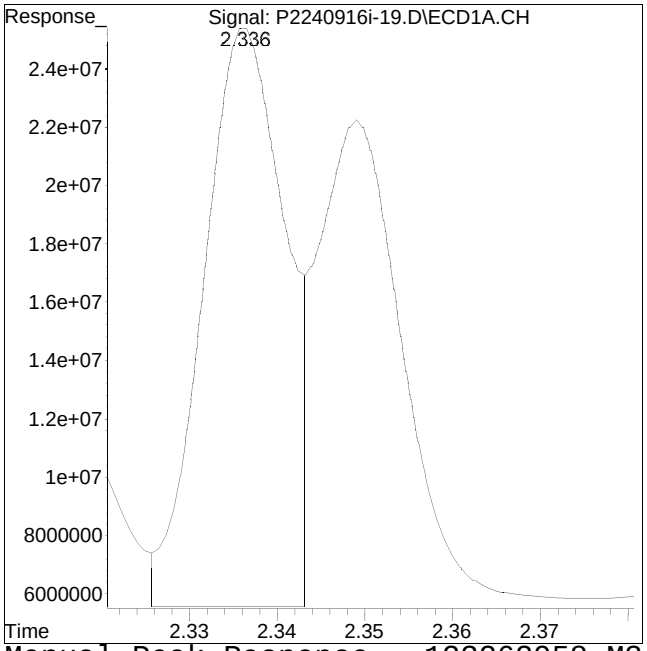
Original Peak Response = 216771906 Manual Peak Response = 162433088 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-19.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:23 pm Instrument : Pest 2
Sample : il81248,42,, 250 pp11767 Quant Date : 9/17/2024 10:50 am

Compound #38: 1248-4



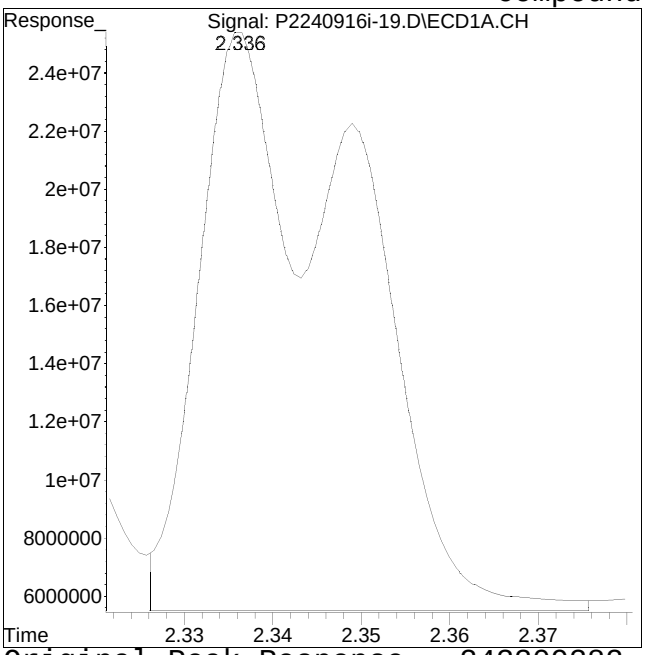


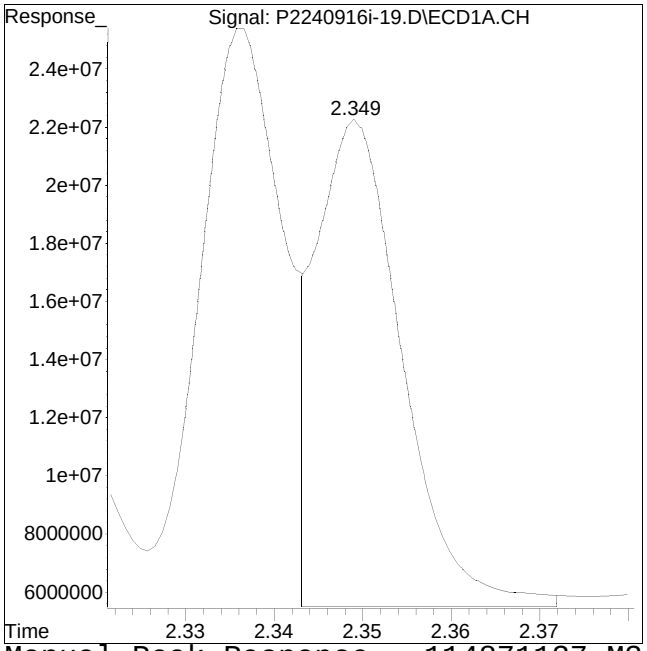
Original Peak Response = 243309382 Manual Peak Response = 123262958 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-19.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:23 pm Instrument : Pest 2
Sample : il81248,42,, 250 pp11767 Quant Date : 9/17/2024 10:50 am

Compound #39: 1248-5





Original Peak Response = 243309382 Manual Peak Response = 114871137 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:32 pm
Operator : pest2:kb/sdc
Sample : il83262,42,, 250 pp11768
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:02:45 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	1.185	1.254	209.0E6	243.5E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:32 pm
Operator : pest2:kb/sdc
Sample : il83262,42,, 250 pp11768
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:02:45 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:32 pm
Operator : pest2:kb/sdc
Sample : il83262,42,, 250 pp11768
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:02:45 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	1.603	1.824	60291065	72344592	250.000	250.000
42) l5	1232-2	1.743	1.994	55810869	76163797	225.715	247.951
43) l5	1232-3	1.931	2.195	115.7E6	145.2E6	242.627	240.522
44) l5	1232-4	1.986	2.255	47966543	58938339	223.978	236.986
45) l5	1232-5	2.337	2.640	34955113	43285797	250.000	250.000
Sum	1232-1			314.7E6	395.9E6	1192.320	1225.460
Average	1232-1					238.464	245.092
46) l8	1262-1	2.826	3.175	173.5E6	177.8E6	250.000	250.000
47) l8	1262-2	3.017	3.409	218.9E6	245.2E6	250.000	250.000
48) l8	1262-3	3.141	3.567	190.3E6	221.6E6	250.000	250.000
49) l8	1262-4	3.296	3.696	386.4E6	424.3E6	250.000	250.000
50) l8	1262-5	3.770	4.212	123.6E6	150.7E6	250.000	250.000
Sum	1262-1			1092.7E6	1219.6E6	1250.000	1250.000
Average	1262-1					250.000	250.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1092.7E6	1219.6E6	1250.000	1250.000
Average	1262-1					250.000	250.000

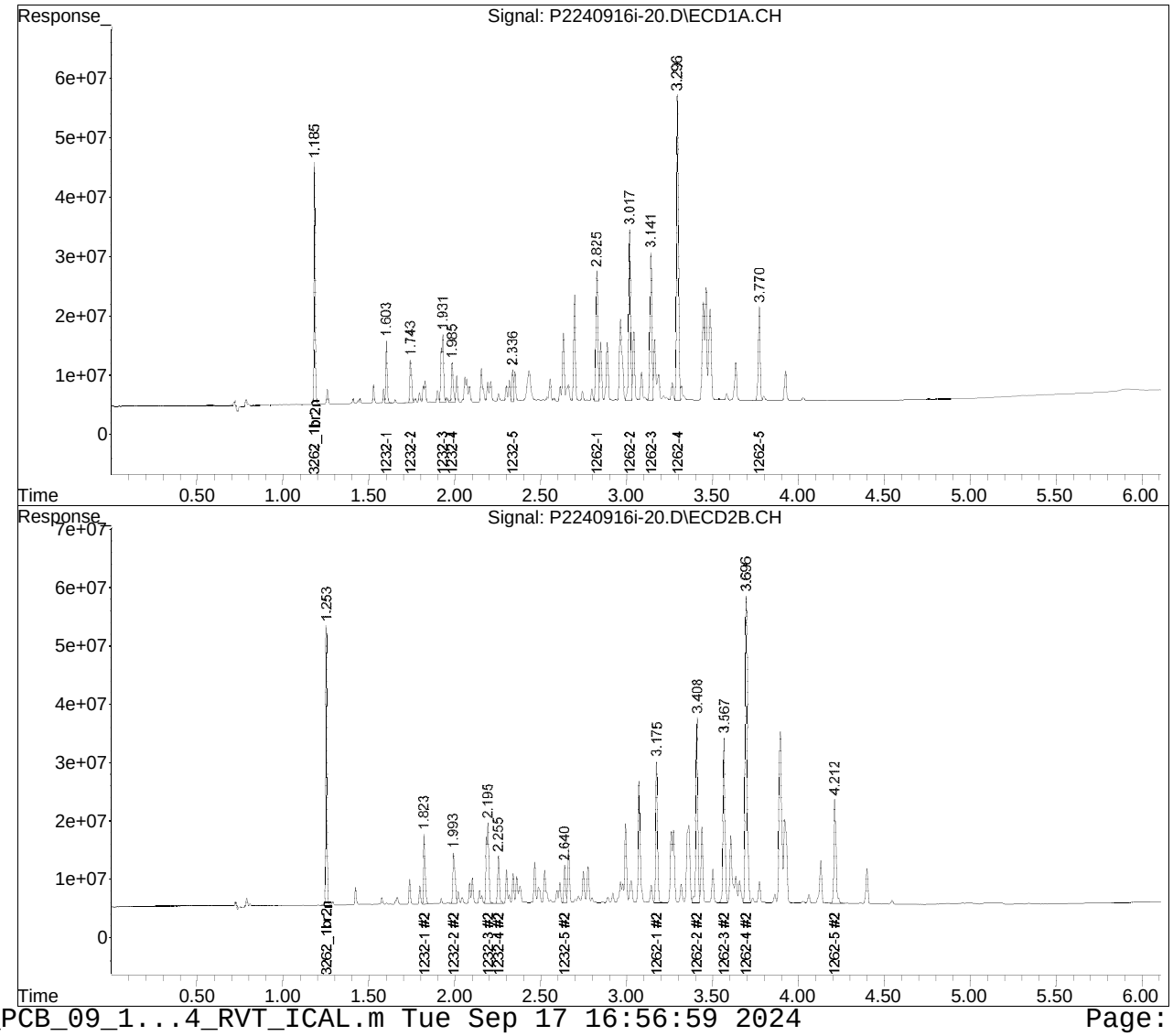
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:32 pm
Operator : pest2:kb/sdc
Sample : il83262,42,, 250 pp11768
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:02:45 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240916I\	QMethod	: P2_PCB_09_16_24_RVT_ICAL
Data File	: P2240916i-20.D	Operator	: pest2:kb/sdc
Date Inj'd	: 9/16/2024 5:32 pm	Instrument	: Pest 2
Sample	: il83262,42,, 250 pp11768	Quant Date	: 9/17/2024 11:02 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:41 pm
Operator : pest2:kb/sdc
Sample : il84268,42,, 250 pp11769
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:01:15 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:01:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	1.185	1.254	203.5E6	250.0E6	25.000	25.000
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:41 pm
Operator : pest2:kb/sdc
Sample : il84268,42,, 250 pp11769
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:01:15 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:01:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
Sum	1221-1			0	0	N.D.	N.D.	
Average	1221-1					0.000	0.000	
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d	
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d	
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d	
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d	
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	1254-1			0	0	N.D.	N.D.	
Average	1254-1					0.000	0.000	
24) l6	1242-1	1.603	1.824	42935320	52847778	191.580	237.473	
25) l6	1242-2	1.743	1.994	93917968	119.7E6	220.107	235.971	
26) l6	1242-3	1.930	2.195	195.1E6	237.8E6	242.153	242.904	
27) l6	1242-4	1.985	2.255	82159676	96723683	233.398	243.823	
28) l6	1242-5	2.336	2.640	65305903	78224584	301.933	224.393	
Sum	1242-1			479.4E6	585.3E6	1189.172	1184.563	
Average	1242-1					237.834	236.913	
29) l9	1268-1	3.459	3.892	424.3E6	475.8E6	247.758	243.028	
30) l9	1268-2	3.480	3.918	384.0E6	423.1E6	224.334	237.127	
31) l9	1268-3	3.582	4.060	312.6E6	351.7E6	238.816	237.498	
32) l9	1268-4	3.769	4.212	136.6E6	154.0E6	263.636	222.601	
33) l9	1268-5	3.923	4.397	950.3E6	998.3E6	238.312	239.513	
Sum	1268-1			2207.8E6	2402.8E6	N.D.	N.D.	D
Average	1268-1					242.571	235.953	
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d	
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d	
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d	
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d	
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	1248-1			0	0	N.D.	N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:41 pm
Operator : pest2:kb/sdc
Sample : il84268,42,, 250 pp11769
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:01:15 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:01:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

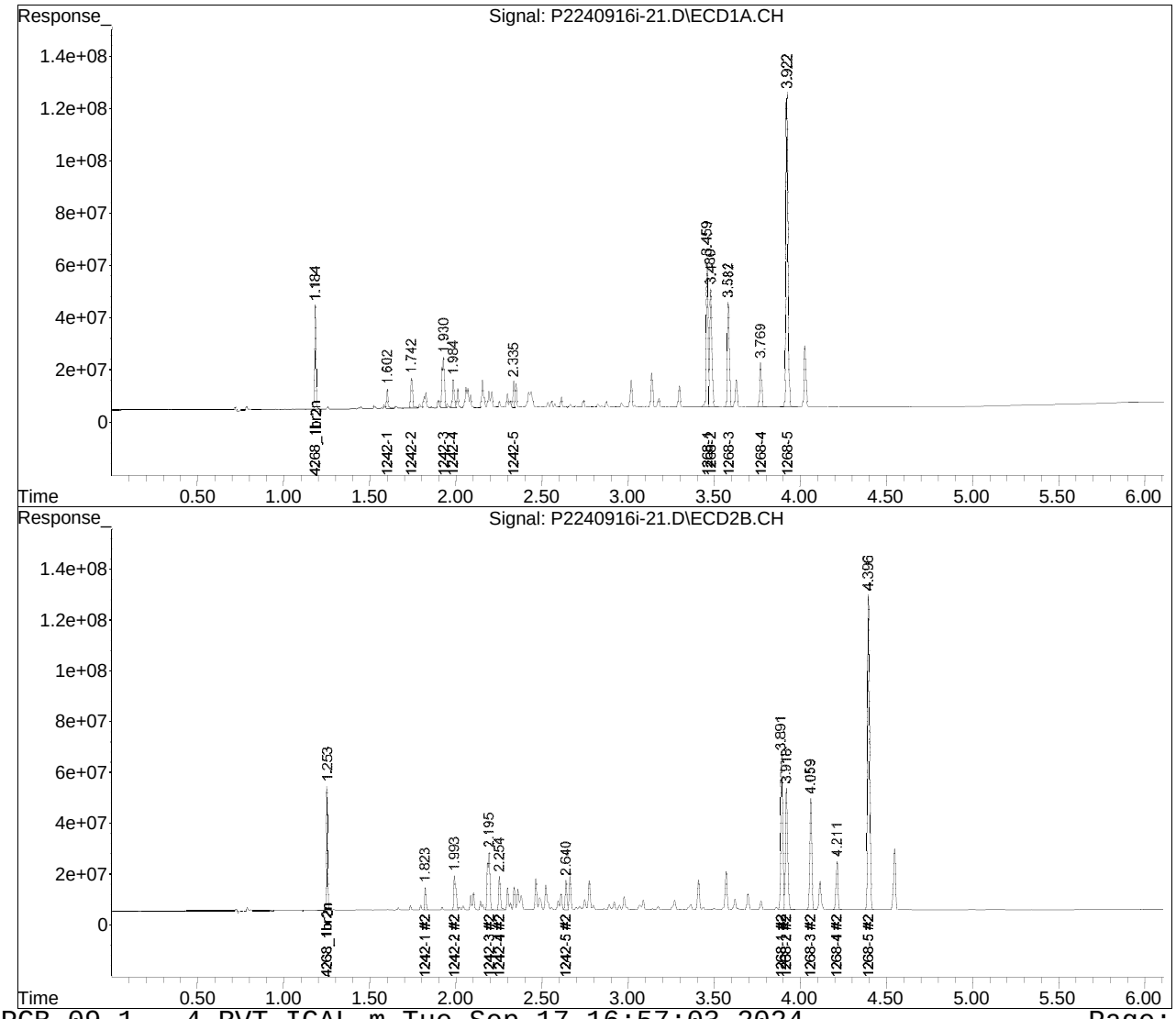
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:41 pm
Operator : pest2:kb/sdc
Sample : il84268,42,, 250 pp11769
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:01:15 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:01:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240916I\	QMethod	: P2_PCB_09_16_24_RVT_ICAL
Data File	: P2240916i-21.D	Operator	: pest2:kb/sdc
Date Inj'd	: 9/16/2024 5:41 pm	Instrument	: Pest 2
Sample	: il84268,42,, 250 pp11769	Quant Date	: 9/17/2024 11:01 am

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

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:49 pm
Operator : pest2:kb/sdc
Sample   : cicv2154,42,, 250 pp11770
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.393	4.0	94	0.00
3	s	Decachlorobiphenyl		1.154	1.066	7.6	99	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	97	0.00
15	l3	1221-1		0.015	0.014	6.7	93	0.00
16	l3	1221-2		0.00922	0.00853	7.5	90	0.00
17	l3	1221-3		0.037	0.035	5.4	92	0.00
18	l4	1254-1		0.052	0.052	0.0	96	0.00
19	l4	1254-2		0.093	0.096	-3.2	100	0.00
20	l4	1254-3		0.101	0.102	-1.0	98	0.00
21	l4	1254-4		0.071	0.071	0.0	97	0.00
22	l4	1254-5		0.099	0.092	7.1	91	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	103	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	101	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	100	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	100	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.457	11.1	94	0.00
3	s	Decachlorobiphenyl		1.101	0.945	14.2	101	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	100	0.00
15	l3	1221-1		0.017	0.016	5.9	92	0.00
16	l3	1221-2		0.011	0.010	9.1	94	0.00
17	l3	1221-3		0.040	0.037	7.5	93	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:49 pm
Operator : pest2:kb/sdc
Sample   : cicv2154,42,, 250 pp11770
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1		0.062	0.061	1.6	97	0.00
19	l4	1254-2		0.073	0.068	6.8	94	0.00
20	l4	1254-3		0.109	0.104	4.6	96	0.00
21	l4	1254-4		0.073	0.070	4.1	96	0.00
22	l4	1254-5		0.101	0.090	10.9	90	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	99	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	100	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	101	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.027	0.000	100.0#	0#	-1.60#
5	l1	1016-2		0.059	0.000	100.0#	0#	-1.74#
6	l1	1016-3		0.117	0.000	100.0#	0#	-1.93#
7	l1	1016-4		0.049	0.000	100.0#	0#	-1.98#
8	l1	1016-5		0.054	0.000	100.0#	0#	-2.15#
9	l2	1260-1		0.075	0.000	100.0#	0#	-2.70#
10	l2	1260-2		0.113	0.000	100.0#	0#	-2.83#
11	l2	1260-3		0.069	0.000	100.0#	0#	-3.14#
12	l2	1260-4		0.151	0.000	100.0#	0#	-3.30#
13	l2	1260-5		0.108	0.000	100.0#	0#	-3.44#
24	l6	1242-1		0.021	0.000	100.0#	0#	-1.60#
25	l6	1242-2		0.046	0.000	100.0#	0#	-1.74#
26	l6	1242-3		0.096	0.000	100.0#	0#	-1.93#
27	l6	1242-4		0.040	0.000	100.0#	0#	-1.98#
28	l6	1242-5		0.032	0.000	100.0#	0#	-2.34#
29	l9	1268-1		0.209	0.000	100.0#	0#	-3.46#
30	l9	1268-2		0.189	0.000	100.0#	0#	-3.48#

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:49 pm
Operator : pest2:kb/sdc
Sample   : cicv2154,42,, 250 pp11770
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
31	l9	1268-3	0.154	0.000	100.0#	0#	-3.58#
32	l9	1268-4	0.067	0.000	100.0#	0#	-3.77#
33	l9	1268-5	0.467	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.060	0.000	100.0#	0#	-1.93#
36	l7	1248-2	0.078	0.000	100.0#	0#	-2.06#
37	l7	1248-3	0.070	0.000	100.0#	0#	-2.15#
38	l7	1248-4	0.060	0.000	100.0#	0#	-2.34#
39	l7	1248-5	0.056	0.000	100.0#	0#	-2.35#
41	l5	1232-1	0.029	0.000	100.0#	0#	-1.60#
42	l5	1232-2	0.027	0.000	100.0#	0#	-1.74#
43	l5	1232-3	0.055	0.000	100.0#	0#	-1.93#
44	l5	1232-4	0.023	0.000	100.0#	0#	-1.99#
45	l5	1232-5	0.017	0.000	100.0#	0#	-2.34#
46	l8	1262-1	0.083	0.000	100.0#	0#	-2.83#
47	l8	1262-2	0.105	0.000	100.0#	0#	-3.02#
48	l8	1262-3	0.091	0.000	100.0#	0#	-3.14#
49	l8	1262-4	0.185	0.000	100.0#	0#	-3.30#
50	l8	1262-5	0.059	0.000	100.0#	0#	-3.77#

Signal #2

4	l1	1016-1	0.030	0.000	100.0#	0#	-1.82#
5	l1	1016-2	0.065	0.000	100.0#	0#	-1.99#
6	l1	1016-3	0.131	0.000	100.0#	0#	-2.19#
7	l1	1016-4	0.053	0.000	100.0#	0#	-2.25#
8	l1	1016-5	0.042	0.000	100.0#	0#	-2.46#
9	l2	1260-1	0.082	0.000	100.0#	0#	-3.07#
10	l2	1260-2	0.097	0.000	100.0#	0#	-3.17#
11	l2	1260-3	0.079	0.000	100.0#	0#	-3.57#
12	l2	1260-4	0.155	0.000	100.0#	0#	-3.70#
13	l2	1260-5	0.111	0.000	100.0#	0#	-3.90#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:49 pm
Operator : pest2:kb/sdc
Sample   : cicv2154,42,, 250 pp11770
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
24 l6	1242-1	0.021	0.000	100.0#	0#	-1.82#
25 l6	1242-2	0.048	0.000	100.0#	0#	-1.99#
26 l6	1242-3	0.095	0.000	100.0#	0#	-2.19#
27 l6	1242-4	0.039	0.000	100.0#	0#	-2.25#
28 l6	1242-5	0.031	0.000	100.0#	0#	-2.64#
29 l9	1268-1	0.190	0.000	100.0#	0#	-3.89#
30 l9	1268-2	0.169	0.000	100.0#	0#	-3.92#
31 l9	1268-3	0.141	0.000	100.0#	0#	-4.06#
32 l9	1268-4	0.062	0.000	100.0#	0#	-4.21#
33 l9	1268-5	0.399	0.000	100.0#	0#	-4.40#
35 l7	1248-1	0.062	0.000	100.0#	0#	-2.19#
36 l7	1248-2	0.043	0.000	100.0#	0#	-2.34#
37 l7	1248-3	0.053	0.000	100.0#	0#	-2.47#
38 l7	1248-4	0.060	0.000	100.0#	0#	-2.64#
39 l7	1248-5	0.067	0.000	100.0#	0#	-2.66#
41 l5	1232-1	0.030	0.000	100.0#	0#	-1.82#
42 l5	1232-2	0.031	0.000	100.0#	0#	-1.99#
43 l5	1232-3	0.060	0.000	100.0#	0#	-2.20#
44 l5	1232-4	0.024	0.000	100.0#	0#	-2.26#
45 l5	1232-5	0.018	0.000	100.0#	0#	-2.64#
46 l8	1262-1	0.073	0.000	100.0#	0#	-3.18#
47 l8	1262-2	0.101	0.000	100.0#	0#	-3.41#
48 l8	1262-3	0.091	0.000	100.0#	0#	-3.57#
49 l8	1262-4	0.174	0.000	100.0#	0#	-3.70#
50 l8	1262-5	0.062	0.000	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:49 pm
Operator : pest2:kb/sdc
Sample : cicv2154,42,, 250 pp11770
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
14) i	2154_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
23) i	4268_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
34) i	1248_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
40) i	3262_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.624	186.5E6	230.1E6	15.364	14.228
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.07%#	2.85%#
3) s	Decachlorobi	4.027	4.545	285.5E6	298.7E6	29.570	27.477
	Spiked Amount 500.000	Range 30 - 150		Recovery =		5.91%#	5.50%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	1.527	1.738	29919584	39651692	239.214	230.534
16) l3	1221-2	1.586	1.797	17855926	25596338	231.435	235.072M3

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:49 pm
Operator : pest2:kb/sdc
Sample : cicv2154,42,, 250 pp11770
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	1.602	1.823	73306971	91388301	237.579M3	231.547M3
Sum	1221-1			121.1E6	156.6E6	708.228	697.154
Average	1221-1					236.076	232.385
18) l4	1254-1	2.318	2.662	108.9E6	149.4E6	247.864	243.242
19) l4	1254-2	2.430	2.749	200.3E6	169.0E6	256.414	234.706
20) l4	1254-3	2.613	2.978	213.8E6	256.9E6	252.422	239.769
21) l4	1254-4	2.742	3.089	149.0E6	172.1E6	249.375	240.436
22) l4	1254-5	2.964	3.364	192.7E6	222.6E6	233.391	223.792
Sum	1254-1			864.8E6	970.1E6	1239.466	1181.946
Average	1254-1					247.893	236.389
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:49 pm
Operator : pest2:kb/sdc
Sample : cicv2154,42,, 250 pp11770
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

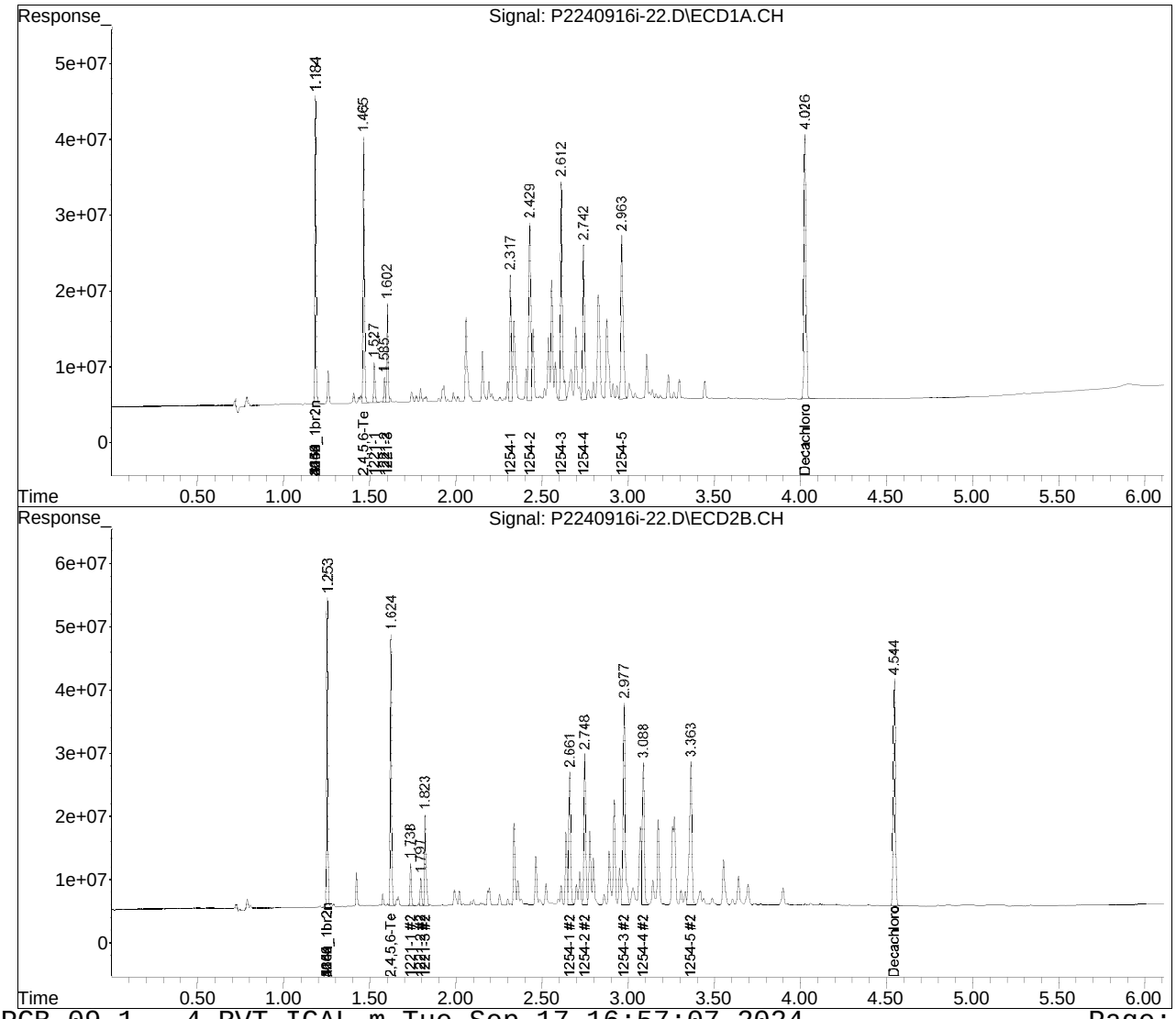
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:49 pm
Operator : pest2:kb/sdc
Sample : cicv2154,42,, 250 pp11770
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

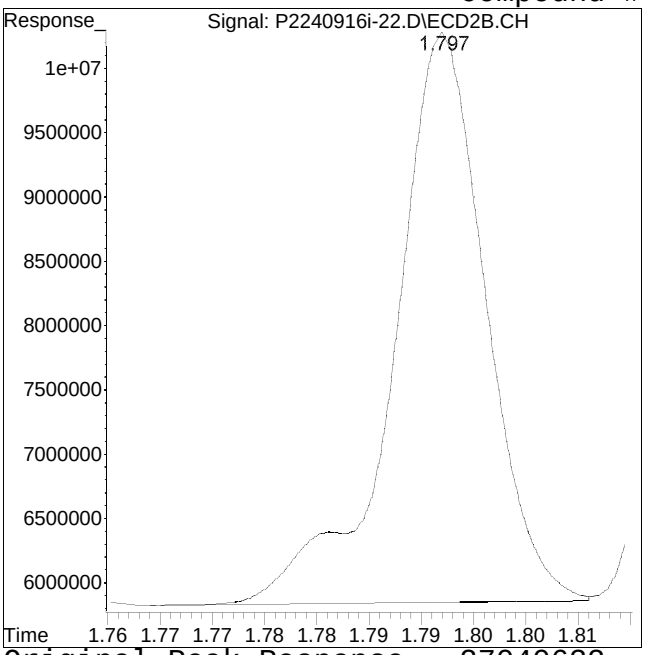
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

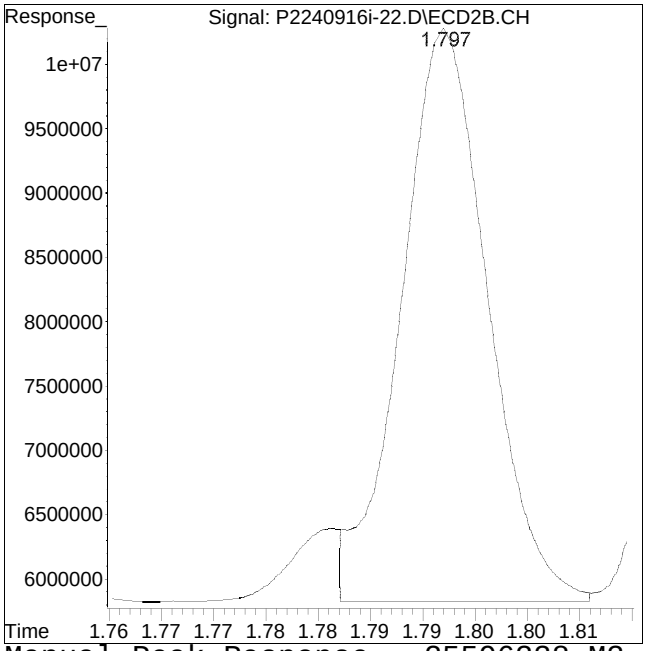


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-22.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:49 pm Instrument : Pest 2
Sample : cicv2154,42,, 250 pp11770 Quant Date : 9/17/2024 11:04 am

Compound #67: 1221-2 #2



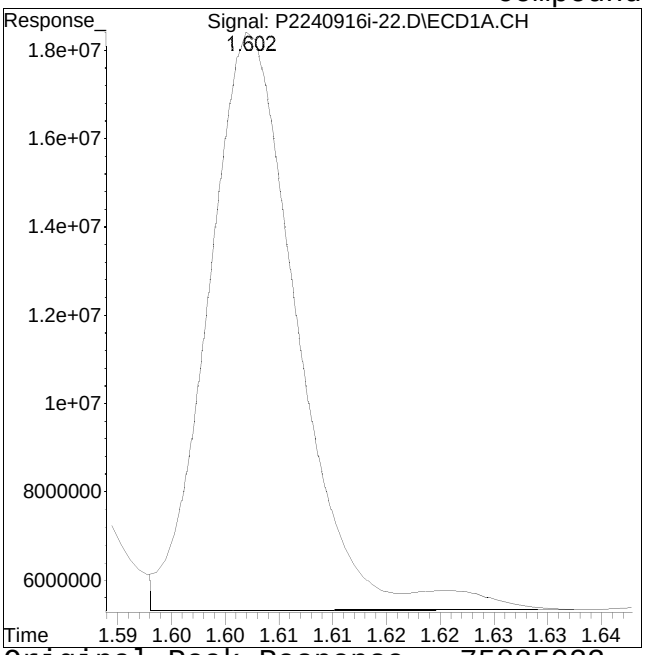


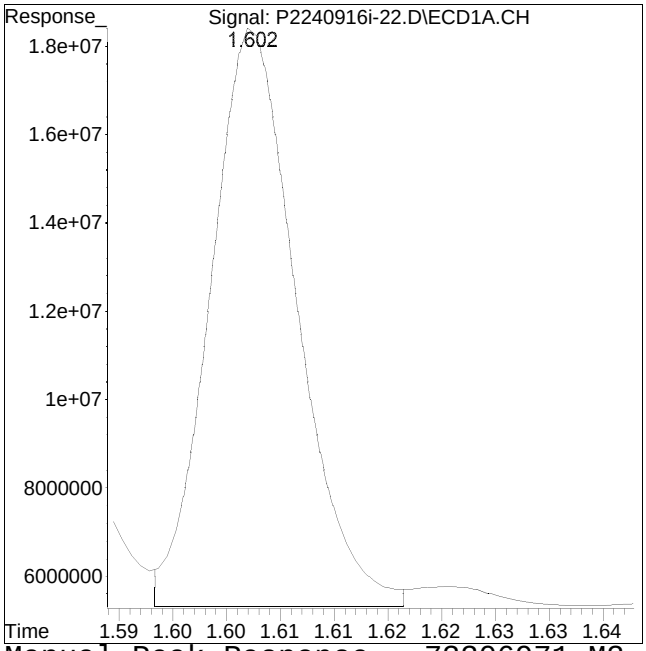
Original Peak Response = 27040632 Manual Peak Response = 25596338 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-22.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:49 pm Instrument : Pest 2
Sample : cicv2154,42,, 250 pp11770 Quant Date : 9/17/2024 11:04 am

Compound #17: 1221-3



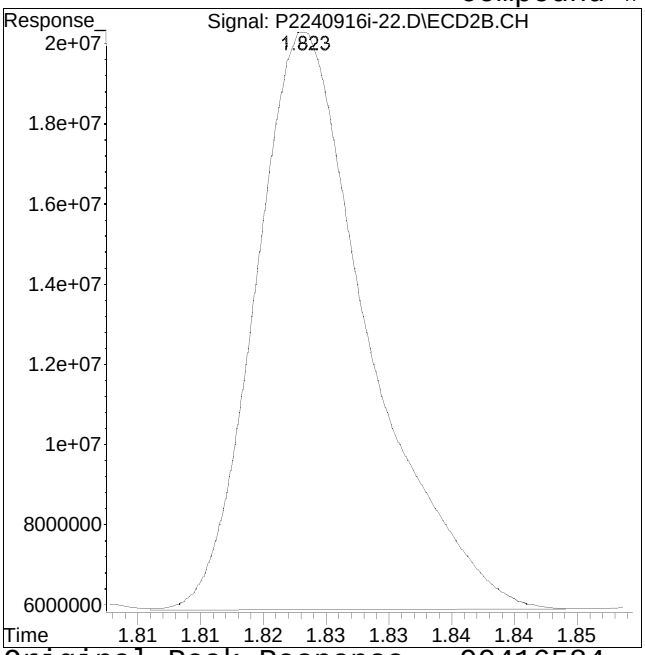


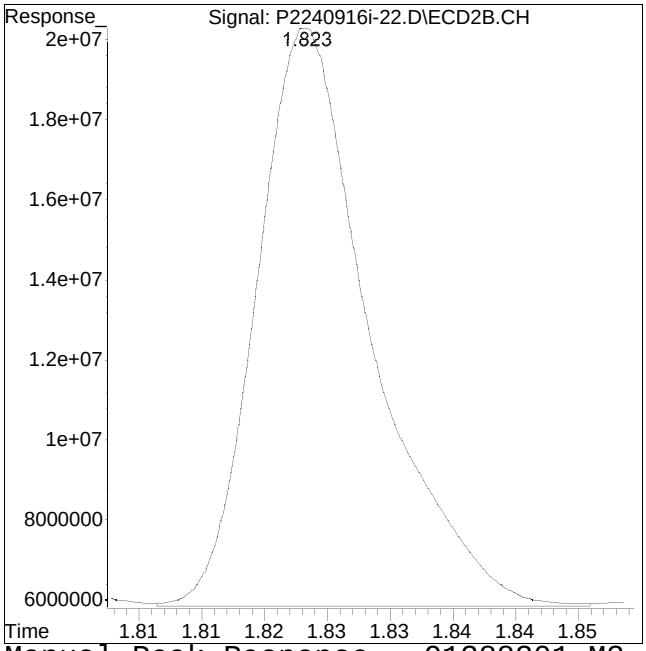
Original Peak Response = 75885933 Manual Peak Response = 73306971 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-22.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:49 pm Instrument : Pest 2
Sample : cicv2154,42,, 250 pp11770 Quant Date : 9/17/2024 11:04 am

Compound #68: 1221-3 #2





Original Peak Response = 90416584 Manual Peak Response = 91388301 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:58 pm
Operator : pest2:kb/sdc
Sample   : cicv1248,42,, 250 pp11771
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	94	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.663	-14.6	108	0.00
3	s	Decachlorobiphenyl		1.154	1.221	-5.8	108	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	93	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	99	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	97	0.00
35	l7	1248-1		0.060	0.070	-16.7	113	0.00
36	l7	1248-2		0.078	0.077	1.3	95	0.00
37	l7	1248-3		0.070	0.069	1.4	95	0.00
38	l7	1248-4		0.060	0.062	-3.3	100	0.00
39	l7	1248-5		0.056	0.061	-8.9	106	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	96	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.691	-3.2	108	0.00
3	s	Decachlorobiphenyl		1.101	1.088	1.2	114	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	98	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	97	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	98	0.00
35	l7	1248-1		0.062	0.074	-19.4	116	0.00
36	l7	1248-2		0.043	0.041	4.7	94	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:58 pm
Operator : pest2:kb/sdc
Sample   : cicv1248,42,, 250 pp11771
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
37	l7	1248-3		0.053	0.051	3.8	96	0.00
38	l7	1248-4		0.060	0.059	1.7	98	0.00
39	l7	1248-5		0.067	0.069	-3.0	102	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	100	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.027	0.000	100.0#	0#	-1.60#
5	l1	1016-2		0.059	0.000	100.0#	0#	-1.74#
6	l1	1016-3		0.117	0.000	100.0#	0#	-1.93#
7	l1	1016-4		0.049	0.000	100.0#	0#	-1.98#
8	l1	1016-5		0.054	0.000	100.0#	0#	-2.15#
9	l2	1260-1		0.075	0.000	100.0#	0#	-2.70#
10	l2	1260-2		0.113	0.000	100.0#	0#	-2.83#
11	l2	1260-3		0.069	0.000	100.0#	0#	-3.14#
12	l2	1260-4		0.151	0.000	100.0#	0#	-3.30#
13	l2	1260-5		0.108	0.000	100.0#	0#	-3.44#
15	l3	1221-1		0.015	0.000	100.0#	0#	-1.53#
16	l3	1221-2		0.00922	0.00000	100.0#	0#	-1.59#
17	l3	1221-3		0.037	0.000	100.0#	0#	-1.60#
18	l4	1254-1		0.052	0.000	100.0#	0#	-2.32#
19	l4	1254-2		0.093	0.000	100.0#	0#	-2.43#
20	l4	1254-3		0.101	0.000	100.0#	0#	-2.61#
21	l4	1254-4		0.071	0.000	100.0#	0#	-2.74#
22	l4	1254-5		0.099	0.000	100.0#	0#	-2.96#
24	l6	1242-1		0.021	0.000	100.0#	0#	-1.60#
25	l6	1242-2		0.046	0.000	100.0#	0#	-1.74#
26	l6	1242-3		0.096	0.000	100.0#	0#	-1.93#
27	l6	1242-4		0.040	0.000	100.0#	0#	-1.98#
28	l6	1242-5		0.032	0.000	100.0#	0#	-2.34#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:58 pm
Operator : pest2:kb/sdc
Sample   : cicv1248,42,, 250 pp11771
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29	l9 1268-1	0.209	0.000	100.0#	0#	-3.46#
30	l9 1268-2	0.189	0.000	100.0#	0#	-3.48#
31	l9 1268-3	0.154	0.000	100.0#	0#	-3.58#
32	l9 1268-4	0.067	0.000	100.0#	0#	-3.77#
33	l9 1268-5	0.467	0.000	100.0#	0#	-3.92#
41	l5 1232-1	0.029	0.000	100.0#	0#	-1.60#
42	l5 1232-2	0.027	0.000	100.0#	0#	-1.74#
43	l5 1232-3	0.055	0.000	100.0#	0#	-1.93#
44	l5 1232-4	0.023	0.000	100.0#	0#	-1.99#
45	l5 1232-5	0.017	0.000	100.0#	0#	-2.34#
46	l8 1262-1	0.083	0.000	100.0#	0#	-2.83#
47	l8 1262-2	0.105	0.000	100.0#	0#	-3.02#
48	l8 1262-3	0.091	0.000	100.0#	0#	-3.14#
49	l8 1262-4	0.185	0.000	100.0#	0#	-3.30#
50	l8 1262-5	0.059	0.000	100.0#	0#	-3.77#

Signal #2

4	l1 1016-1	0.030	0.000	100.0#	0#	-1.82#
5	l1 1016-2	0.065	0.000	100.0#	0#	-1.99#
6	l1 1016-3	0.131	0.000	100.0#	0#	-2.19#
7	l1 1016-4	0.053	0.000	100.0#	0#	-2.25#
8	l1 1016-5	0.042	0.000	100.0#	0#	-2.46#
9	l2 1260-1	0.082	0.000	100.0#	0#	-3.07#
10	l2 1260-2	0.097	0.000	100.0#	0#	-3.17#
11	l2 1260-3	0.079	0.000	100.0#	0#	-3.57#
12	l2 1260-4	0.155	0.000	100.0#	0#	-3.70#
13	l2 1260-5	0.111	0.000	100.0#	0#	-3.90#
15	l3 1221-1	0.017	0.000	100.0#	0#	-1.74#
16	l3 1221-2	0.011	0.000	100.0#	0#	-1.80#
17	l3 1221-3	0.040	0.000	100.0#	0#	-1.82#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:58 pm
Operator : pest2:kb/sdc
Sample   : cicv1248,42,, 250 pp11771
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18 l4	1254-1	0.062	0.000	100.0#	0#	-2.66#
19 l4	1254-2	0.073	0.000	100.0#	0#	-2.75#
20 l4	1254-3	0.109	0.000	100.0#	0#	-2.98#
21 l4	1254-4	0.073	0.000	100.0#	0#	-3.09#
22 l4	1254-5	0.101	0.000	100.0#	0#	-3.36#
24 l6	1242-1	0.021	0.000	100.0#	0#	-1.82#
25 l6	1242-2	0.048	0.000	100.0#	0#	-1.99#
26 l6	1242-3	0.095	0.000	100.0#	0#	-2.19#
27 l6	1242-4	0.039	0.000	100.0#	0#	-2.25#
28 l6	1242-5	0.031	0.000	100.0#	0#	-2.64#
29 l9	1268-1	0.190	0.000	100.0#	0#	-3.89#
30 l9	1268-2	0.169	0.000	100.0#	0#	-3.92#
31 l9	1268-3	0.141	0.000	100.0#	0#	-4.06#
32 l9	1268-4	0.062	0.000	100.0#	0#	-4.21#
33 l9	1268-5	0.399	0.000	100.0#	0#	-4.40#
41 l5	1232-1	0.030	0.000	100.0#	0#	-1.82#
42 l5	1232-2	0.031	0.000	100.0#	0#	-1.99#
43 l5	1232-3	0.060	0.000	100.0#	0#	-2.20#
44 l5	1232-4	0.024	0.000	100.0#	0#	-2.26#
45 l5	1232-5	0.018	0.000	100.0#	0#	-2.64#
46 l8	1262-1	0.073	0.000	100.0#	0#	-3.18#
47 l8	1262-2	0.101	0.000	100.0#	0#	-3.41#
48 l8	1262-3	0.091	0.000	100.0#	0#	-3.57#
49 l8	1262-4	0.174	0.000	100.0#	0#	-3.70#
50 l8	1262-5	0.062	0.000	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:58 pm
Operator : pest2:kb/sdc
Sample : cicv1248,42,, 250 pp11771
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
14) i	2154_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
23) i	4268_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
34) i	1248_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
40) i	3262_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	213.5E6	262.9E6	18.345	16.519
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.67%#	3.30%#
3) s	Decachlorobi	4.026	4.544	313.3E6	338.1E6	33.848	31.607
	Spiked Amount 500.000	Range 30 - 150		Recovery =		6.77%#	6.32%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D.	N.D.
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:58 pm
Operator : pest2:kb/sdc
Sample : cicv1248,42,, 250 pp11771
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.930	2.194	140.9E6	179.3E6	292.359	295.742
36) l7	1248-2	2.057	2.339	154.8E6	99401870	245.867M1	239.644
37) l7	1248-3	2.153	2.465	137.7E6	125.0E6	244.604	243.815
38) l7	1248-4	2.335	2.640	123.8E6	144.3E6	259.212	249.605
39) l7	1248-5	2.348	2.663	121.4E6	167.8E6	272.812	258.383

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:58 pm
Operator : pest2:kb/sdc
Sample : cicv1248,42,, 250 pp11771
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			678.7E6	715.8E6	1314.855	1287.190
Average	1248-1					262.971	257.438
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

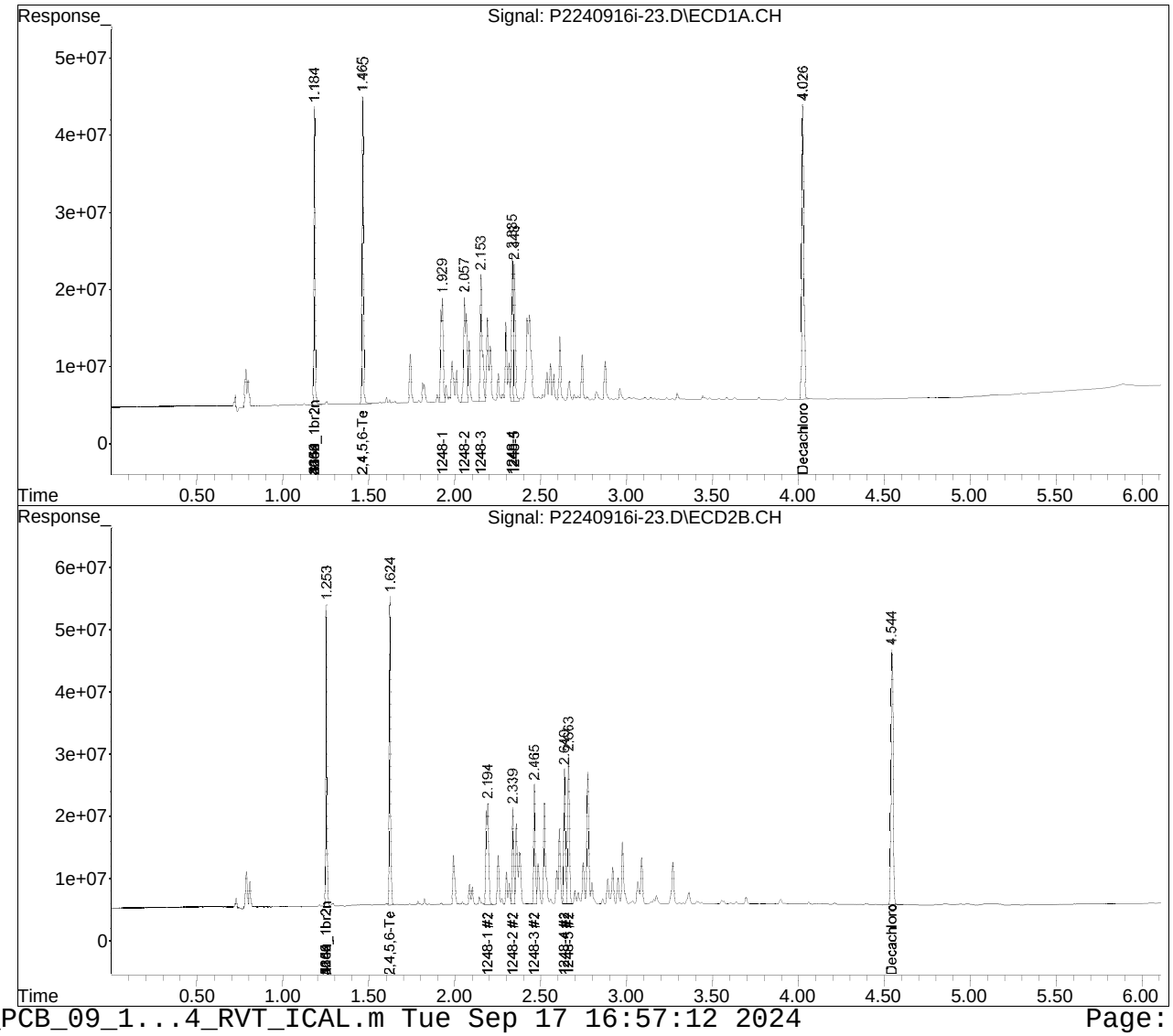
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:58 pm
Operator : pest2:kb/sdc
Sample : cicv1248,42,, 250 pp11771
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

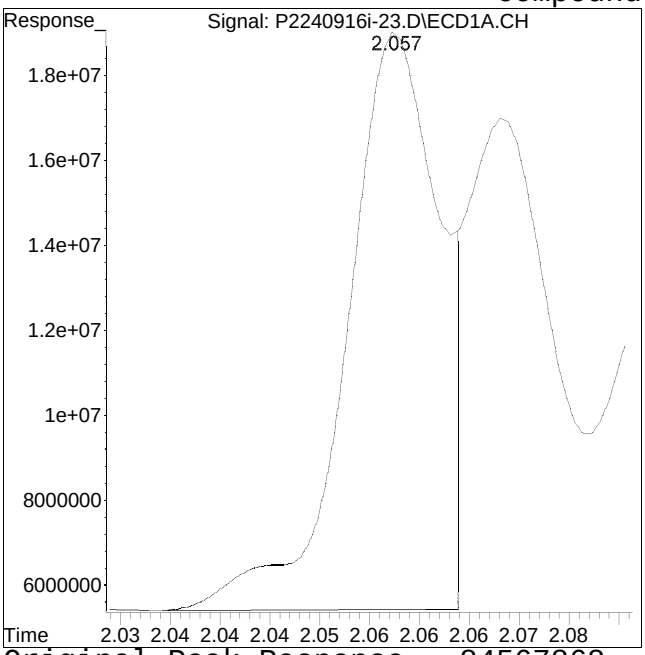
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



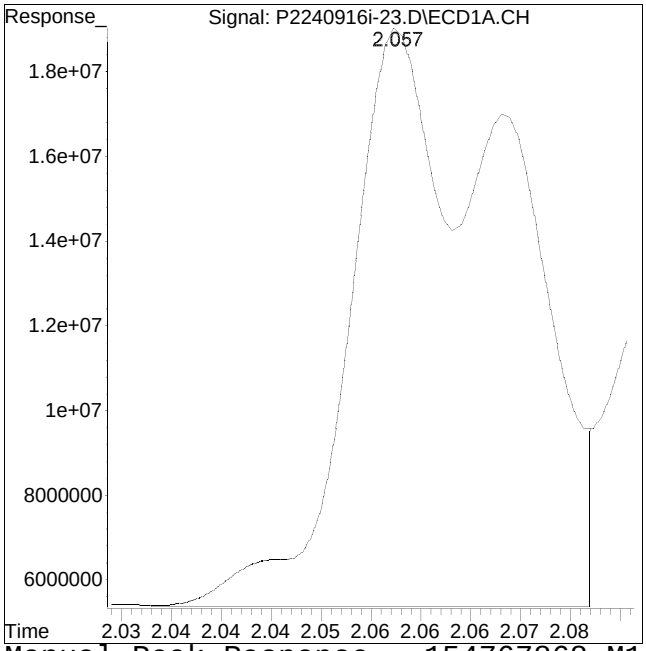
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-23.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:58 pm Instrument : Pest 2
Sample : cicv1248,42,, 250 pp11771 Quant Date : 9/17/2024 11:05 am

Compound #36: 1248-2



Original Peak Response = 84567868



Manual Peak Response = 154767868 M1

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

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:07 pm
Operator : pest2:kb/sdc
Sample   : cicv3262,42,, 250 pp11773
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	93	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.477	-1.8	95	0.00
3	s	Decachlorobiphenyl		1.154	1.142	1.0	100	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	92	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	97	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	96	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	95	0.00
41	l5	1232-1		0.029	0.034	-17.2	113	0.00
42	l5	1232-2		0.027	0.026	3.7	94	0.00
43	l5	1232-3		0.055	0.056	-1.8	96	0.00
44	l5	1232-4		0.023	0.023	0.0	97	0.00
45	l5	1232-5		0.017	0.018	-5.9	103	0.00
46	l8	1262-1		0.083	0.083	0.0	95	0.00
47	l8	1262-2		0.105	0.105	0.0	95	0.00
48	l8	1262-3		0.091	0.092	-1.1	96	0.00
49	l8	1262-4		0.185	0.186	-0.5	95	0.00
50	l8	1262-5		0.059	0.059	0.0	95	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	96	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.585	3.2	98	0.00
3	s	Decachlorobiphenyl		1.101	1.007	8.5	103	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	96	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:07 pm
Operator : pest2:kb/sdc
Sample   : cicv3262,42,, 250 pp11773
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	94	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	96	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	97	0.00
41	l5	1232-1		0.030	0.035	-16.7	113	0.00
42	l5	1232-2		0.031	0.031	0.0	97	0.00
43	l5	1232-3		0.060	0.059	1.7	97	0.00
44	l5	1232-4		0.024	0.024	0.0	96	0.00
45	l5	1232-5		0.018	0.018	0.0	100	0.00
46	l8	1262-1		0.073	0.072	1.4	95	0.00
47	l8	1262-2		0.101	0.099	2.0	95	0.00
48	l8	1262-3		0.091	0.090	1.1	96	0.00
49	l8	1262-4		0.174	0.169	2.9	94	0.00
50	l8	1262-5		0.062	0.060	3.2	93	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.027	0.000	100.0#	0#	-1.60#
5	l1	1016-2		0.059	0.000	100.0#	0#	-1.74#
6	l1	1016-3		0.117	0.000	100.0#	0#	-1.93#
7	l1	1016-4		0.049	0.000	100.0#	0#	-1.98#
8	l1	1016-5		0.054	0.000	100.0#	0#	-2.15#
9	l2	1260-1		0.075	0.000	100.0#	0#	-2.70#
10	l2	1260-2		0.113	0.000	100.0#	0#	-2.83#
11	l2	1260-3		0.069	0.000	100.0#	0#	-3.14#
12	l2	1260-4		0.151	0.000	100.0#	0#	-3.30#
13	l2	1260-5		0.108	0.000	100.0#	0#	-3.44#
15	l3	1221-1		0.015	0.000	100.0#	0#	-1.53#
16	l3	1221-2		0.00922	0.00000	100.0#	0#	-1.59#
17	l3	1221-3		0.037	0.000	100.0#	0#	-1.60#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:07 pm
Operator : pest2:kb/sdc
Sample   : cicv3262,42,, 250 pp11773
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1	0.052	0.000	100.0#	0#	-2.32#
19	l4	1254-2	0.093	0.000	100.0#	0#	-2.43#
20	l4	1254-3	0.101	0.000	100.0#	0#	-2.61#
21	l4	1254-4	0.071	0.000	100.0#	0#	-2.74#
22	l4	1254-5	0.099	0.000	100.0#	0#	-2.96#
24	l6	1242-1	0.021	0.000	100.0#	0#	-1.60#
25	l6	1242-2	0.046	0.000	100.0#	0#	-1.74#
26	l6	1242-3	0.096	0.000	100.0#	0#	-1.93#
27	l6	1242-4	0.040	0.000	100.0#	0#	-1.98#
28	l6	1242-5	0.032	0.000	100.0#	0#	-2.34#
29	l9	1268-1	0.209	0.000	100.0#	0#	-3.46#
30	l9	1268-2	0.189	0.000	100.0#	0#	-3.48#
31	l9	1268-3	0.154	0.000	100.0#	0#	-3.58#
32	l9	1268-4	0.067	0.000	100.0#	0#	-3.77#
33	l9	1268-5	0.467	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.060	0.000	100.0#	0#	-1.93#
36	l7	1248-2	0.078	0.000	100.0#	0#	-2.06#
37	l7	1248-3	0.070	0.000	100.0#	0#	-2.15#
38	l7	1248-4	0.060	0.000	100.0#	0#	-2.34#
39	l7	1248-5	0.056	0.000	100.0#	0#	-2.35#

Signal #2

4	l1	1016-1	0.030	0.000	100.0#	0#	-1.82#
5	l1	1016-2	0.065	0.000	100.0#	0#	-1.99#
6	l1	1016-3	0.131	0.000	100.0#	0#	-2.19#
7	l1	1016-4	0.053	0.000	100.0#	0#	-2.25#
8	l1	1016-5	0.042	0.000	100.0#	0#	-2.46#
9	l2	1260-1	0.082	0.000	100.0#	0#	-3.07#
10	l2	1260-2	0.097	0.000	100.0#	0#	-3.17#
11	l2	1260-3	0.079	0.000	100.0#	0#	-3.57#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:07 pm
Operator : pest2:kb/sdc
Sample   : cicv3262,42,, 250 pp11773
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	0.155	0.000	100.0#	0#	-3.70#
13 l2	1260-5	0.111	0.000	100.0#	0#	-3.90#
15 l3	1221-1	0.017	0.000	100.0#	0#	-1.74#
16 l3	1221-2	0.011	0.000	100.0#	0#	-1.80#
17 l3	1221-3	0.040	0.000	100.0#	0#	-1.82#
18 l4	1254-1	0.062	0.000	100.0#	0#	-2.66#
19 l4	1254-2	0.073	0.000	100.0#	0#	-2.75#
20 l4	1254-3	0.109	0.000	100.0#	0#	-2.98#
21 l4	1254-4	0.073	0.000	100.0#	0#	-3.09#
22 l4	1254-5	0.101	0.000	100.0#	0#	-3.36#
24 l6	1242-1	0.021	0.000	100.0#	0#	-1.82#
25 l6	1242-2	0.048	0.000	100.0#	0#	-1.99#
26 l6	1242-3	0.095	0.000	100.0#	0#	-2.19#
27 l6	1242-4	0.039	0.000	100.0#	0#	-2.25#
28 l6	1242-5	0.031	0.000	100.0#	0#	-2.64#
29 l9	1268-1	0.190	0.000	100.0#	0#	-3.89#
30 l9	1268-2	0.169	0.000	100.0#	0#	-3.92#
31 l9	1268-3	0.141	0.000	100.0#	0#	-4.06#
32 l9	1268-4	0.062	0.000	100.0#	0#	-4.21#
33 l9	1268-5	0.399	0.000	100.0#	0#	-4.40#
35 l7	1248-1	0.062	0.000	100.0#	0#	-2.19#
36 l7	1248-2	0.043	0.000	100.0#	0#	-2.34#
37 l7	1248-3	0.053	0.000	100.0#	0#	-2.47#
38 l7	1248-4	0.060	0.000	100.0#	0#	-2.64#
39 l7	1248-5	0.067	0.000	100.0#	0#	-2.66#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:07 pm
Operator : pest2:kb/sdc
Sample : cicv3262,42,, 250 pp11773
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
14) i	2154_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
23) i	4268_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
34) i	1248_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
40) i	3262_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.625	187.3E6	239.1E6	16.288	15.477
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.26%#	3.10%#
3) s	Decachlorobi	4.026	4.544	289.7E6	304.0E6	31.672	29.276
	Spiked Amount 500.000	Range 30 - 150		Recovery =		6.33%#	5.86%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:07 pm
Operator : pest2:kb/sdc
Sample : cicv3262,42,, 250 pp11773
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:07 pm
Operator : pest2:kb/sdc
Sample : cicv3262,42,, 250 pp11773
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	1.603	1.824	68269965	81414585	298.488	290.625
42) l5	1232-2	1.743	1.994	52386986	73941054	247.432	250.711
43) l5	1232-3	1.930	2.195	111.0E6	140.2E6	252.978	249.333
44) l5	1232-4	1.985	2.255	46547705	56591438	255.806	247.965
45) l5	1232-5	2.336	2.641	36041624	43471742	271.797	259.357
Sum	1232-1			314.2E6	395.6E6	1326.500	1297.990
Average	1232-1					265.300	259.598
46) l8	1262-1	2.825	3.175	165.3E6	168.8E6	251.208	245.187
47) l8	1262-2	3.016	3.409	209.0E6	233.6E6	251.679	246.122
48) l8	1262-3	3.140	3.567	182.7E6	212.0E6	253.128	246.995
49) l8	1262-4	3.295	3.696	368.0E6	398.7E6	251.038	242.663
50) l8	1262-5	3.769	4.212	117.6E6	140.8E6	250.989	241.242
Sum	1262-1			1042.7E6	1153.9E6	1258.042	1222.209
Average	1262-1					251.608	244.442

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1042.7E6	1153.9E6	1258.042	1222.209
Average	1262-1					251.608	244.442

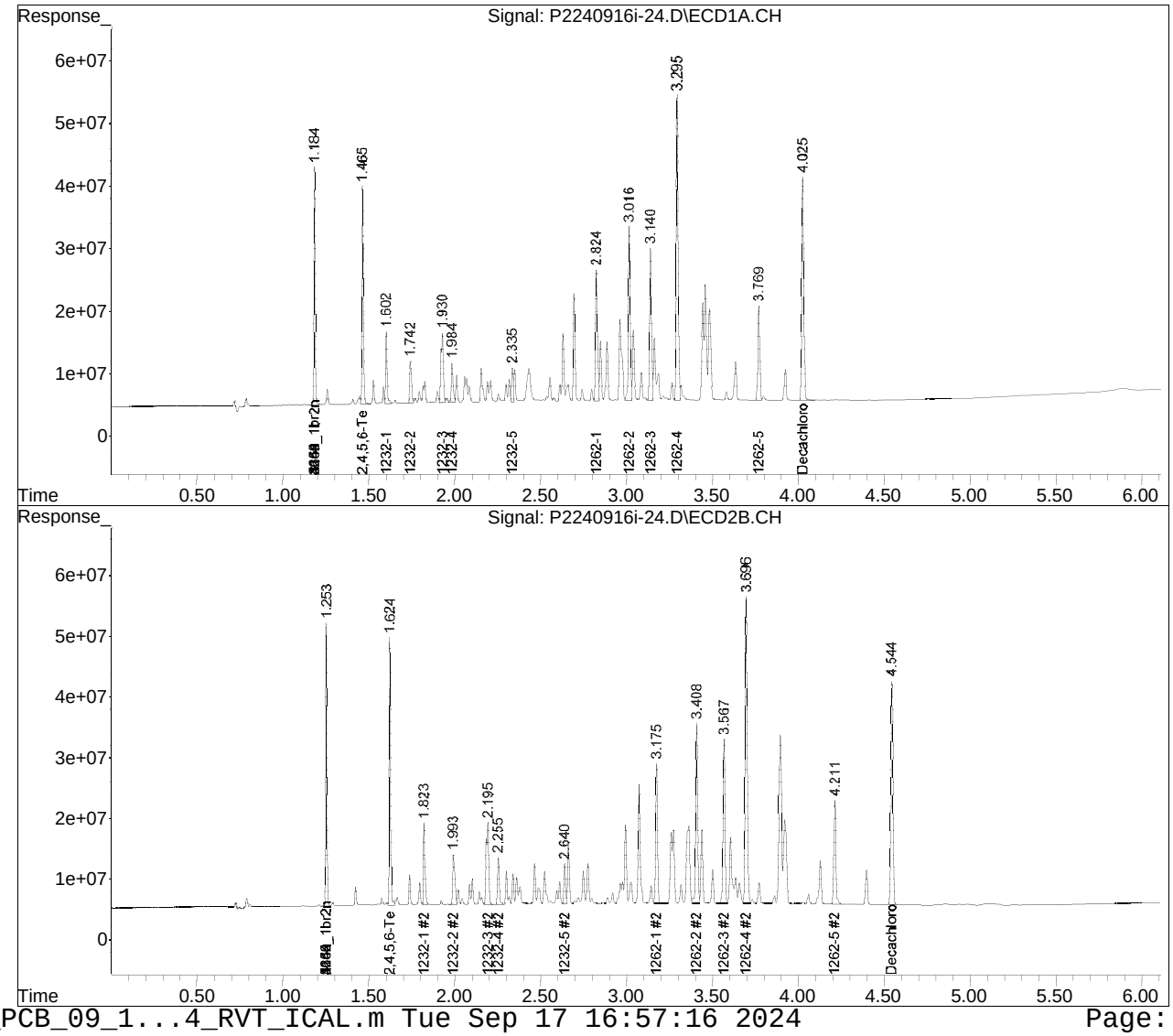
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:07 pm
Operator : pest2:kb/sdc
Sample : cicv3262,42,, 250 pp11773
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240916I\	QMethod	: P2_PCB_09_16_24_RVT_ICAL
Data File	: P2240916i-24.D	Operator	: pest2:kb/sdc
Date Inj'd	: 9/16/2024 6:07 pm	Instrument	: Pest 2
Sample	: cicv3262,42,, 250 pp11773	Quant Date	: 9/17/2024 11:06 am

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

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:15 pm
Operator : pest2:kb/sdc
Sample   : cicv4268,42,, 250 pp11772
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	93	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.522	-4.9	98	0.00
3	s	Decachlorobiphenyl		1.154	1.730	-49.9#	152#	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	92	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	98	0.00
24	l6	1242-1		0.021	0.022	-4.8	104	0.00
25	l6	1242-2		0.046	0.052	-13.0	111	0.00
26	l6	1242-3		0.096	0.102	-6.2	104	0.00
27	l6	1242-4		0.040	0.043	-7.5	104	0.00
28	l6	1242-5		0.032	0.033	-3.1	101	0.00
29	l9	1268-1		0.209	0.236	-12.9	111	0.00
30	l9	1268-2		0.189	0.209	-10.6	109	0.00
31	l9	1268-3		0.154	0.157	-1.9	100	0.00
32	l9	1268-4		0.067	0.067	0.0	98	0.00
33	l9	1268-5		0.467	0.442	5.4	93	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	96	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	95	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.565	4.5	98	0.00
3	s	Decachlorobiphenyl		1.101	1.500	-36.2#	155#	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	97	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:15 pm
Operator : pest2:kb/sdc
Sample   : cicv4268,42,, 250 pp11772
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	95	0.00
24	l6	1242-1		0.021	0.024	-14.3	106	0.00
25	l6	1242-2		0.048	0.053	-10.4	105	0.00
26	l6	1242-3		0.095	0.104	-9.5	104	0.00
27	l6	1242-4		0.039	0.042	-7.7	103	0.00
28	l6	1242-5		0.031	0.034	-9.7	104	0.00
29	l9	1268-1		0.190	0.219	-15.3	109	0.00
30	l9	1268-2		0.169	0.189	-11.8	106	0.00
31	l9	1268-3		0.141	0.145	-2.8	98	0.00
32	l9	1268-4		0.062	0.063	-1.6	98	0.00
33	l9	1268-5		0.399	0.389	2.5	93	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	97	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	98	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.027	0.000	100.0#	0#	-1.60#
5	l1	1016-2		0.059	0.000	100.0#	0#	-1.74#
6	l1	1016-3		0.117	0.000	100.0#	0#	-1.93#
7	l1	1016-4		0.049	0.000	100.0#	0#	-1.98#
8	l1	1016-5		0.054	0.000	100.0#	0#	-2.15#
9	l2	1260-1		0.075	0.000	100.0#	0#	-2.70#
10	l2	1260-2		0.113	0.000	100.0#	0#	-2.83#
11	l2	1260-3		0.069	0.000	100.0#	0#	-3.14#
12	l2	1260-4		0.151	0.000	100.0#	0#	-3.30#
13	l2	1260-5		0.108	0.000	100.0#	0#	-3.44#
15	l3	1221-1		0.015	0.000	100.0#	0#	-1.53#
16	l3	1221-2		0.00922	0.00000	100.0#	0#	-1.59#
17	l3	1221-3		0.037	0.000	100.0#	0#	-1.60#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:15 pm
Operator : pest2:kb/sdc
Sample   : cicv4268,42,, 250 pp11772
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1	0.052	0.000	100.0#	0#	-2.32#
19	l4	1254-2	0.093	0.000	100.0#	0#	-2.43#
20	l4	1254-3	0.101	0.000	100.0#	0#	-2.61#
21	l4	1254-4	0.071	0.000	100.0#	0#	-2.74#
22	l4	1254-5	0.099	0.000	100.0#	0#	-2.96#
35	l7	1248-1	0.060	0.000	100.0#	0#	-1.93#
36	l7	1248-2	0.078	0.000	100.0#	0#	-2.06#
37	l7	1248-3	0.070	0.000	100.0#	0#	-2.15#
38	l7	1248-4	0.060	0.000	100.0#	0#	-2.34#
39	l7	1248-5	0.056	0.000	100.0#	0#	-2.35#
41	l5	1232-1	0.029	0.000	100.0#	0#	-1.60#
42	l5	1232-2	0.027	0.000	100.0#	0#	-1.74#
43	l5	1232-3	0.055	0.000	100.0#	0#	-1.93#
44	l5	1232-4	0.023	0.000	100.0#	0#	-1.99#
45	l5	1232-5	0.017	0.000	100.0#	0#	-2.34#
46	l8	1262-1	0.083	0.000	100.0#	0#	-2.83#
47	l8	1262-2	0.105	0.000	100.0#	0#	-3.02#
48	l8	1262-3	0.091	0.000	100.0#	0#	-3.14#
49	l8	1262-4	0.185	0.000	100.0#	0#	-3.30#
50	l8	1262-5	0.059	0.000	100.0#	0#	-3.77#

Signal #2

4	l1	1016-1	0.030	0.000	100.0#	0#	-1.82#
5	l1	1016-2	0.065	0.000	100.0#	0#	-1.99#
6	l1	1016-3	0.131	0.000	100.0#	0#	-2.19#
7	l1	1016-4	0.053	0.000	100.0#	0#	-2.25#
8	l1	1016-5	0.042	0.000	100.0#	0#	-2.46#
9	l2	1260-1	0.082	0.000	100.0#	0#	-3.07#
10	l2	1260-2	0.097	0.000	100.0#	0#	-3.17#
11	l2	1260-3	0.079	0.000	100.0#	0#	-3.57#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:15 pm
Operator : pest2:kb/sdc
Sample   : cicv4268,42,, 250 pp11772
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	0.155	0.000	100.0#	0#	-3.70#
13 l2	1260-5	0.111	0.000	100.0#	0#	-3.90#
15 l3	1221-1	0.017	0.000	100.0#	0#	-1.74#
16 l3	1221-2	0.011	0.000	100.0#	0#	-1.80#
17 l3	1221-3	0.040	0.000	100.0#	0#	-1.82#
18 l4	1254-1	0.062	0.000	100.0#	0#	-2.66#
19 l4	1254-2	0.073	0.000	100.0#	0#	-2.75#
20 l4	1254-3	0.109	0.000	100.0#	0#	-2.98#
21 l4	1254-4	0.073	0.000	100.0#	0#	-3.09#
22 l4	1254-5	0.101	0.000	100.0#	0#	-3.36#
35 l7	1248-1	0.062	0.000	100.0#	0#	-2.19#
36 l7	1248-2	0.043	0.000	100.0#	0#	-2.34#
37 l7	1248-3	0.053	0.000	100.0#	0#	-2.47#
38 l7	1248-4	0.060	0.000	100.0#	0#	-2.64#
39 l7	1248-5	0.067	0.000	100.0#	0#	-2.66#
41 l5	1232-1	0.030	0.000	100.0#	0#	-1.82#
42 l5	1232-2	0.031	0.000	100.0#	0#	-1.99#
43 l5	1232-3	0.060	0.000	100.0#	0#	-2.20#
44 l5	1232-4	0.024	0.000	100.0#	0#	-2.26#
45 l5	1232-5	0.018	0.000	100.0#	0#	-2.64#
46 l8	1262-1	0.073	0.000	100.0#	0#	-3.18#
47 l8	1262-2	0.101	0.000	100.0#	0#	-3.41#
48 l8	1262-3	0.091	0.000	100.0#	0#	-3.57#
49 l8	1262-4	0.174	0.000	100.0#	0#	-3.70#
50 l8	1262-5	0.062	0.000	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:15 pm
Operator : pest2:kb/sdc
Sample : cicv4268,42,, 250 pp11772
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
14) i	2154_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
23) i	4268_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
34) i	1248_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
40) i	3262_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.625	194.1E6	238.6E6	16.787	15.284
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.36%#	3.06%#
3) s	Decachlorobi	4.026	4.544	441.2E6	457.5E6	47.972	43.605
	Spiked Amount 500.000	Range 30 - 150		Recovery =		9.59%#	8.72%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:15 pm
Operator : pest2:kb/sdc
Sample : cicv4268,42,, 250 pp11772
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.602	1.823	44493355	56043063	264.571	278.221
25) l6	1242-2	1.741	1.994	104.1E6	125.4E6	283.000M1	274.871
26) l6	1242-3	1.930	2.195	203.6E6	247.3E6	266.424	272.811
27) l6	1242-4	1.984	2.255	85044716	99394063	264.271	269.601
28) l6	1242-5	2.335	2.640	66155142	81559141	258.626	273.542
Sum	1242-1			503.4E6	609.7E6	1336.892	1369.046
Average	1242-1					267.378	273.809
29) l9	1268-1	3.458	3.891	470.6E6	520.6E6	283.128	287.064
30) l9	1268-2	3.479	3.918	417.3E6	449.7E6	277.418	278.906
31) l9	1268-3	3.581	4.059	313.3E6	345.8E6	255.903	257.951
32) l9	1268-4	3.768	4.211	134.4E6	150.9E6	251.151	257.023
33) l9	1268-5	3.922	4.397	881.6E6	926.0E6	236.864	243.367
Sum	1268-1			2217.2E6	2393.0E6	1304.464	1324.311
Average	1268-1					260.893	264.862
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:15 pm
Operator : pest2:kb/sdc
Sample : cicv4268,42,, 250 pp11772
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

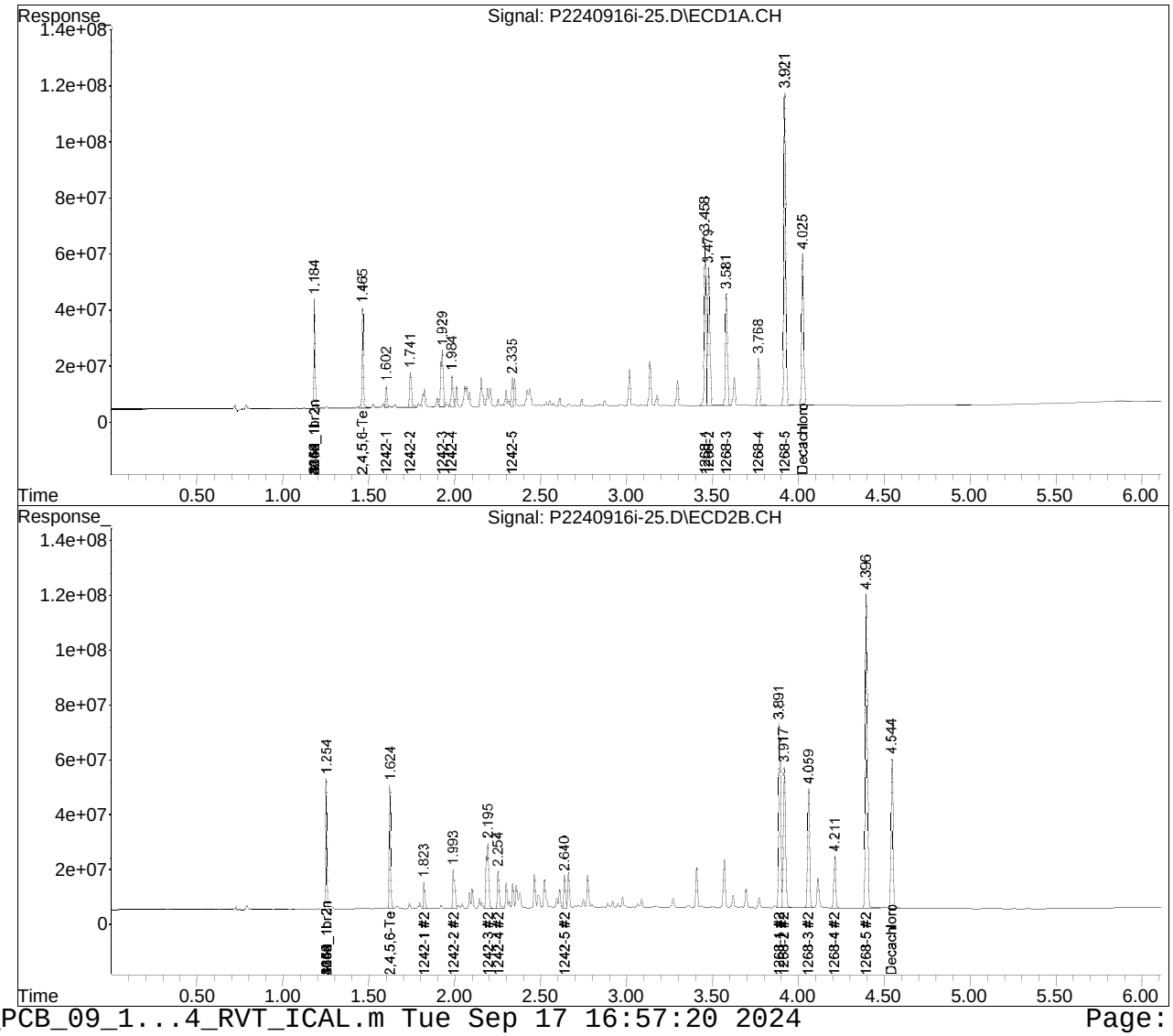
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:15 pm
Operator : pest2:kb/sdc
Sample : cicv4268,42,, 250 pp11772
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

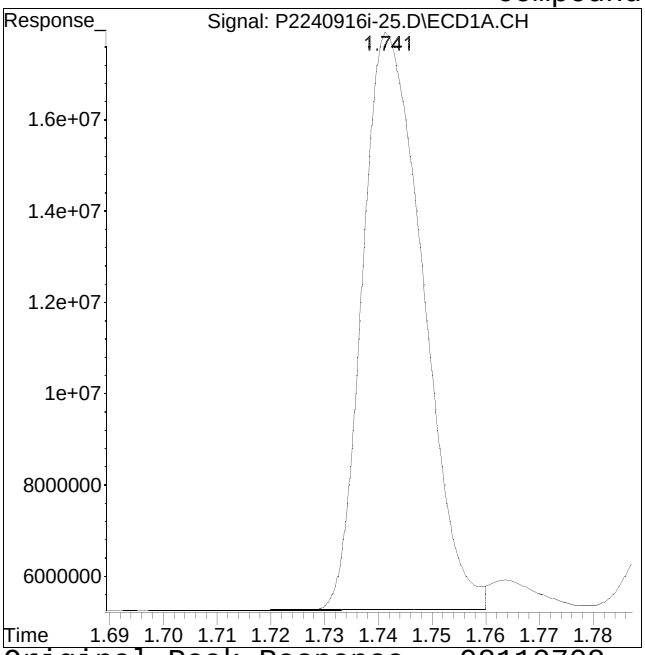
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

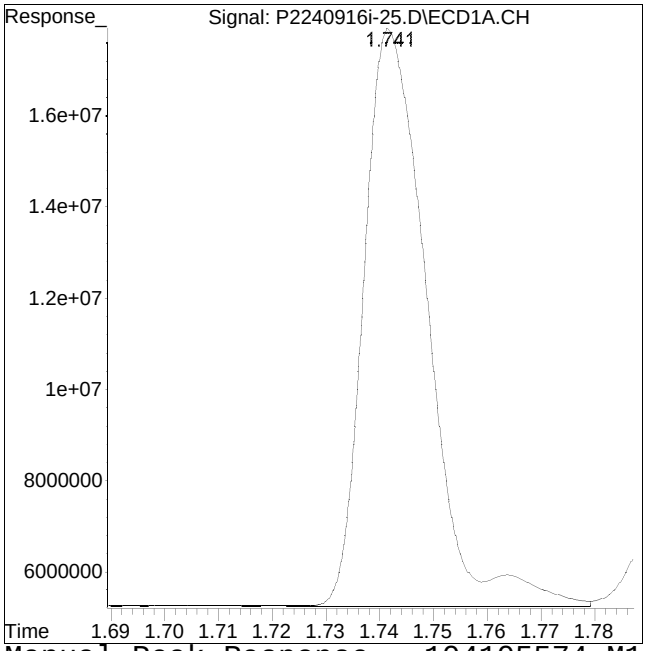


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-25.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 6:15 pm Instrument : Pest 2
Sample : cicv4268,42,, 250 pp11772 Quant Date : 9/17/2024 11:06 am

Compound #25: 1242-2





Original Peak Response = 98110708 Manual Peak Response = 104105574 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Continuing Calibration

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST2	**Calibration Date**	: 09/27/24 05:57		
Lab File ID	: P2240927a-04	**Init. Calib. Date(s)**	: 09/16/24	09/16/24	
Sample No	: WG1977023-1	**Init. Calib. Times**	: 15:29	17:41	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	92	0
2,4,5,6-Tetrachloro-m-xylen	1.451	1.654	-	-14	20	105	0
Decachlorobiphenyl	1.154	1.333	-	-15.5	20	116	-.02
1016-1	0.027	0.03	-	-11.1	20	108	0
1016-2	0.059	0.057	-	3.4	20	97	0
1016-3	0.117	0.148	-	-26.5*	20	120	0
1016-4	0.049	0.062	-	-26.5*	20	120	0
1016-5	0.054	0.061	-	-13	20	112	0
1260-1	0.075	0.091	-	-21.3*	20	121	-.01
1260-2	0.113	0.144	-	-27.4*	20	126	-.01
1260-3	0.069	0.075	-	-8.7	20	104	-.01
1260-4	0.151	0.146	-	3.3	20	92	-.02
1260-5	0.108	0.122	-	-13	20	110	-.02

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST2	**Calibration Date**	: 09/27/24 05:57	
Lab File ID	: P2240927a-04	**Init. Calib. Date(s)**	: 09/16/24	09/16/24
Sample No	: WG1977023-1	**Init. Calib. Times**	: 15:29	17:41
Channel	: B			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	1	1	-	0	20	116	0
2,4,5,6-Tetrachloro-m-xylen	1.638	1.383	-	15.6	20	104	-.01
Decachlorobiphenyl #2	1.101	0.943	-	14.4	20	117	-.03
1016-1 #2	0.03	0.025	-	16.7	20	107	-.01
1016-2 #2	0.065	0.057	-	12.3	20	112	-.01
1016-3 #2	0.131	0.12	-	8.4	20	118	-.02
1016-4 #2	0.053	0.05	-	5.7	20	123	-.02
1016-5 #2	0.042	0.037	-	11.9	20	110	-.02
1260-1 #2	0.082	0.074	-	9.8	20	120	-.02
1260-2 #2	0.097	0.084	-	13.4	20	115	-.03
1260-3 #2	0.079	0.063	-	20.3*	20	106	-.03
1260-4 #2	0.155	0.103	-	33.5*	20	86	-.03
1260-5 #2	0.111	0.093	-	16.2	20	111	-.03

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST2	**Calibration Date**	: 09/27/24 12:25		
Lab File ID	: P2240927a-31	**Init. Calib. Date(s)**	: 09/16/24	09/16/24	
Sample No	: WG1977023-5	**Init. Calib. Times**	: 15:29	17:41	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	87	0
2,4,5,6-Tetrachloro-m-xylen	1.451	1.743	-	-20.1*	20	105	0
Decachlorobiphenyl	1.154	1.357	-	-17.6	20	112	-.02
1016-1	0.027	0.03	-	-11.1	20	104	0
1016-2	0.059	0.058	-	1.7	20	95	0
1016-3	0.117	0.153	-	-30.8*	20	118	0
1016-4	0.049	0.065	-	-32.7*	20	119	0
1016-5	0.054	0.064	-	-18.5	20	111	0
1260-1	0.075	0.094	-	-25.3*	20	118	0
1260-2	0.113	0.148	-	-31*	20	122	0
1260-3	0.069	0.079	-	-14.5	20	103	-.01
1260-4	0.151	0.151	-	0	20	90	-.01
1260-5	0.108	0.125	-	-15.7	20	107	-.01

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST2	**Calibration Date**	: 09/27/24 12:25	
Lab File ID	: P2240927a-31	**Init. Calib. Date(s)**	: 09/16/24	09/16/24
Sample No	: WG1977023-5	**Init. Calib. Times**	: 15:29	17:41
Channel	: B			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	1	1	-	0	20	115	0
2,4,5,6-Tetrachloro-m-xylen	1.638	1.475	-	10	20	110	0
Decachlorobiphenyl #2	1.101	1.041	-	5.4	20	128	-.03
1016-1 #2	0.03	0.025	-	16.7	20	107	0
1016-2 #2	0.065	0.064	-	1.5	20	123	-.01
1016-3 #2	0.131	0.123	-	6.1	20	120	-.01
1016-4 #2	0.053	0.049	-	7.5	20	120	-.01
1016-5 #2	0.042	0.04	-	4.8	20	119	-.02
1260-1 #2	0.082	0.084	-	-2.4	20	133	-.02
1260-2 #2	0.097	0.096	-	1	20	130	-.02
1260-3 #2	0.079	0.071	-	10.1	20	118	-.02
1260-4 #2	0.155	0.112	-	27.7*	20	92	-.02
1260-5 #2	0.111	0.106	-	4.5	20	125	-.03

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST2	**Calibration Date**	: 09/27/24 13:29	
Lab File ID	: P2240927a-34	**Init. Calib. Date(s)**	: 09/16/24	09/16/24
Sample No	: WG1977023-6	**Init. Calib. Times**	: 15:29	17:41
Channel	: A			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	112	0
2,4,5,6-Tetrachloro-m-xylen	1.451	1.412	-	2.7	20	109	0
Decachlorobiphenyl	1.154	1.072	-	7.1	20	114	-.02
2154_1br2nb	1	1	-	0	20	111	0
1221-1	0.015	0.014	-	6.7	20	104	0
1221-2	0.00922	0.0082	-	11.1	20	99	0
1221-3	0.037	0.034	-	8.1	20	103	0
1254-1	0.052	0.052	-	0	20	111	0
1254-2	0.093	0.098	-	-5.4	20	117	0
1254-3	0.101	0.106	-	-5	20	116	0
1254-4	0.071	0.074	-	-4.2	20	114	-.01
1254-5	0.099	0.094	-	5.1	20	106	-.01
4268_1br2nb	1	1	-	0	20	118	0
1248_1br2nb	1	1	-	0	20	116	0
3262_1br2nb	1	1	-	0	20	115	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST2	**Calibration Date**	: 09/27/24 13:29		
Lab File ID	: P2240927a-34	**Init. Calib. Date(s)**	: 09/16/24	09/16/24	
Sample No	: WG1977023-6	**Init. Calib. Times**	: 15:29	17:41	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	125	0
2,4,5,6-Tetrachloro-m-xyl	1.638	1.314	-	19.8	20	106	0
Decachlorobiphenyl	1.101	0.878	-	20.3*	20	117	-.03
2154_1br2nb	1	1	-	0	20	124	0
1221-1	0.017	0.014	-	17.6	20	102	-.01
1221-2	0.01103	0.00912	-	17.3	20	103	-.01
1221-3	0.04	0.033	-	17.5	20	101	-.01
1254-1	0.062	0.057	-	8.1	20	114	-.02
1254-2	0.073	0.063	-	13.7	20	107	-.02
1254-3	0.109	0.098	-	10.1	20	112	-.02
1254-4	0.073	0.065	-	11	20	112	-.02
1254-5	0.101	0.085	-	15.8	20	105	-.03
4268_1br2nb	1	1	-	0	20	123	0
1248_1br2nb	1	1	-	0	20	124	0
3262_1br2nb	1	1	-	0	20	126	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 5:57
Operator : pest2:mhg
Sample : WG1977023-1,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : WG1977023,,ICAL21500
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 06:04:19 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	92	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.654	-14.0	105	0.00
3	s	Decachlorobiphenyl		1.154	1.333	-15.5	116	-0.02
4	l1	1016-1		0.027	0.030	-11.1	108	0.00
5	l1	1016-2		0.059	0.057	3.4	97	0.00
6	l1	1016-3		0.117	0.148	-26.5#	120	0.00
7	l1	1016-4		0.049	0.062	-26.5#	120	0.00
8	l1	1016-5		0.054	0.061	-13.0	112	0.00
9	l2	1260-1		0.075	0.091	-21.3#	121	-0.01
10	l2	1260-2		0.113	0.144	-27.4#	126	-0.01
11	l2	1260-3		0.069	0.075	-8.7	104	-0.01
12	l2	1260-4		0.151	0.146	3.3	92	-0.02
13	l2	1260-5		0.108	0.122	-13.0	110	-0.02
52	i	1660_1br2nb #2	^	1.000	1.000	0.0	116	0.00
53	s	2,4,5,6-Tetrachloro-m-xylen		1.638	1.383	15.6	104	-0.01
54	s	Decachlorobiphenyl #2		1.101	0.943	14.4	117	-0.03
55	l1	1016-1 #2		0.030	0.025	16.7	107	-0.01
56	l1	1016-2 #2		0.065	0.057	12.3	112	-0.01
57	l1	1016-3 #2		0.131	0.120	8.4	118	-0.02
58	l1	1016-4 #2		0.053	0.050	5.7	123	-0.02
59	l1	1016-5 #2		0.042	0.037	11.9	110	-0.02
60	l2	1260-1 #2		0.082	0.074	9.8	120	-0.02
61	l2	1260-2 #2		0.097	0.084	13.4	115	-0.03
62	l2	1260-3 #2		0.079	0.063	20.3#	106	-0.03
63	l2	1260-4 #2		0.155	0.103	33.5#	86	-0.03
64	l2	1260-5 #2		0.111	0.093	16.2	111	-0.03

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2024   5:57
Operator : pest2:mhg
Sample   : WG1977023-1,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc   : WG1977023,,ICAL21500
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 06:04:19 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 5:57
Operator : pest2:mhg
Sample : WG1977023-1,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : WG1977023,,ICAL21500
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 06:04:19 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.181	1.246	197.1E6	286.7E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.461	1.614	208.7E6	253.8E6	18.245M4	13.505M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		91.22%	67.53%
3) s	Decachlorobi	4.008	4.510f	336.2E6	346.1E6	36.955	27.409
	Spiked Amount 20.000	Range 30 - 150		Recovery =		184.78%#	137.04%
	Target Compounds						
4) l1	1016-1	1.597	1.811	58274749	71057316	273.261	205.255M4
5) l1	1016-2	1.738	1.979	111.6E6	164.8E6	240.379	220.008M4
6) l1	1016-3	1.923	2.178f	291.7E6	342.7E6	316.943M4	228.268M4
7) l1	1016-4	1.977	2.238f	122.4E6	143.6E6	315.788M4	237.068M4
8) l1	1016-5	2.145	2.446f	119.9E6	106.0E6	280.698M4	219.429M4
	Sum 1016-1			703.9E6	828.2E6	1427.070	1110.028
	Average 1016-1					285.414	222.006
9) l2	1260-1	2.683	3.049f	179.8E6	213.4E6	306.018M4	226.407M4
10) l2	1260-2	2.812	3.149f	284.7E6	241.6E6	318.932M4	216.967M4
11) l2	1260-3	3.125	3.538f	148.7E6	181.5E6	275.185M4	199.375M4
12) l2	1260-4	3.280f	3.667f	288.7E6	294.9E6	243.239	165.480

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 5:57
Operator : pest2:mhg
Sample : WG1977023-1,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : WG1977023,,ICAL21500
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 06:04:19 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13) l2 1260-5	3.426f	3.867f	240.0E6	265.5E6	283.142M4	209.389M4
Sum 1260-1			1142.0E6	1196.8E6	1426.516	1017.618
Average 1260-1					285.303	203.524
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 5:57
Operator : pest2:mhg
Sample : WG1977023-1,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : WG1977023,,ICAL21500
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 06:04:19 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

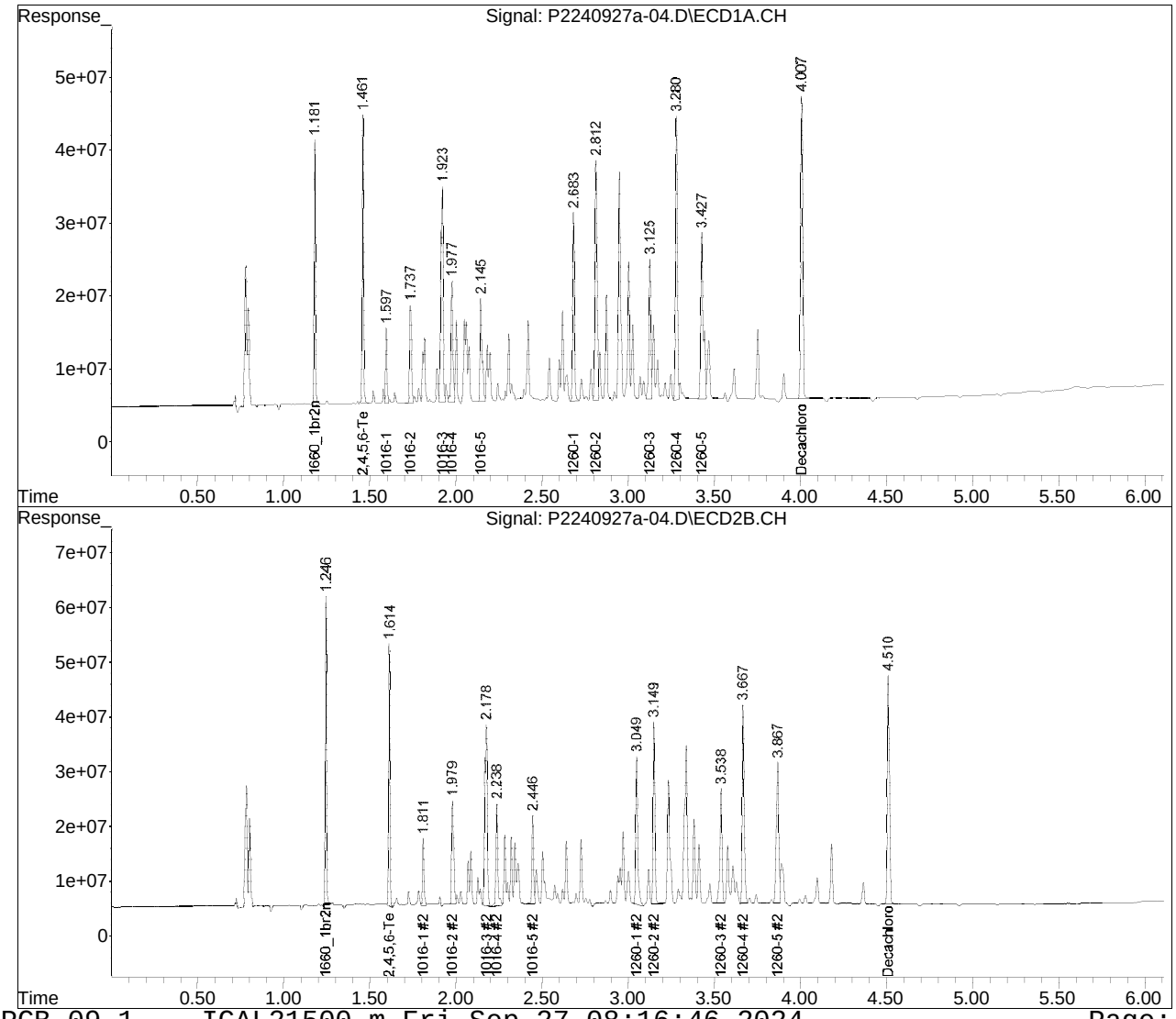
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 5:57
Operator : pest2:mhg
Sample : WG1977023-1,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,,
Misc : WG1977023,,ICAL21500
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 06:04:19 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

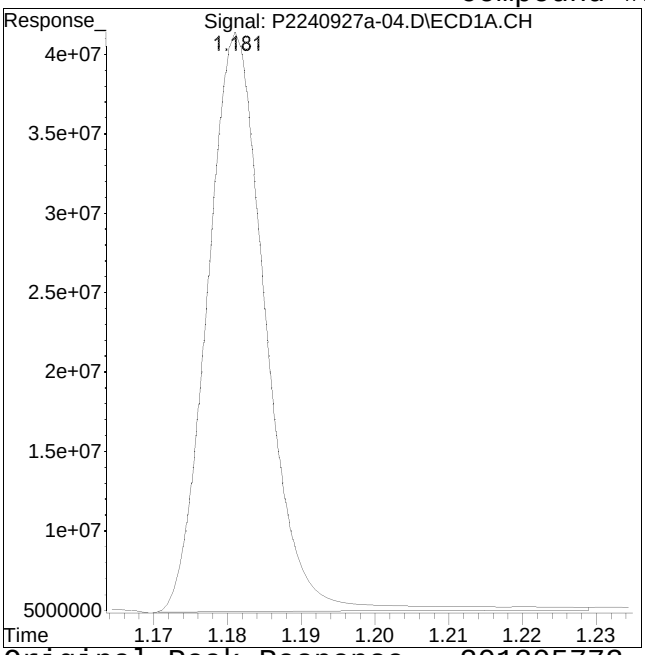
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

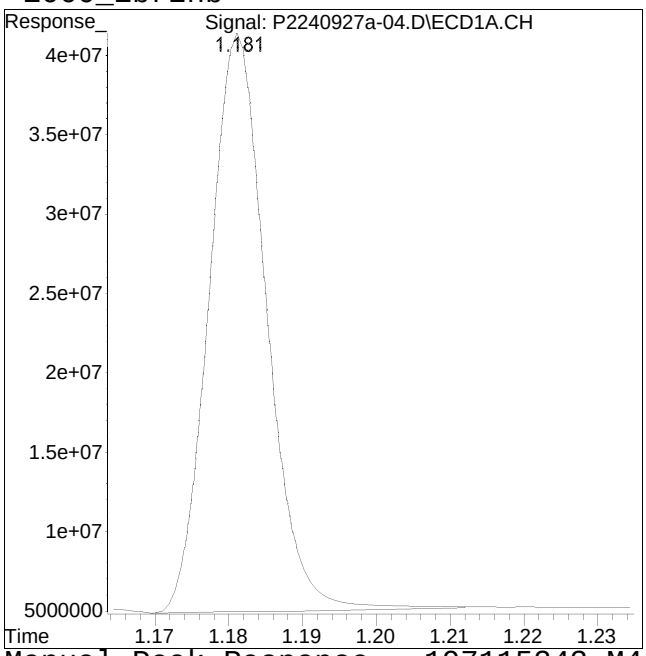


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #1: 1660_1br2nb



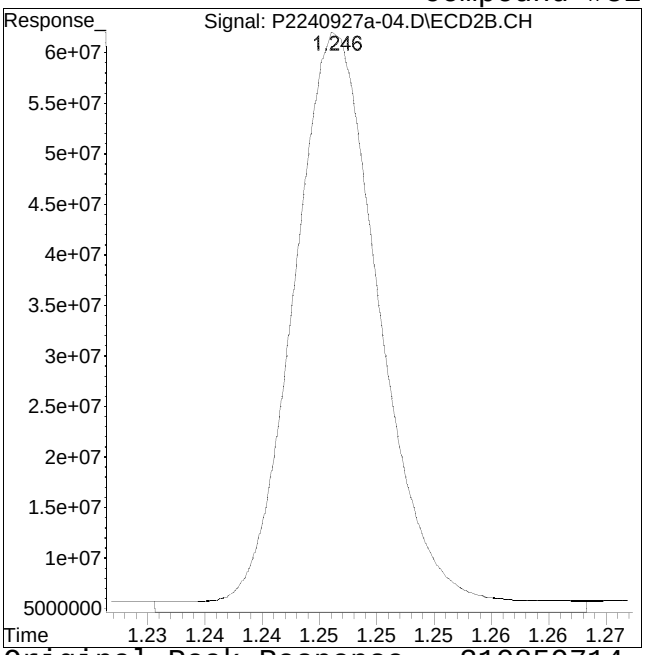


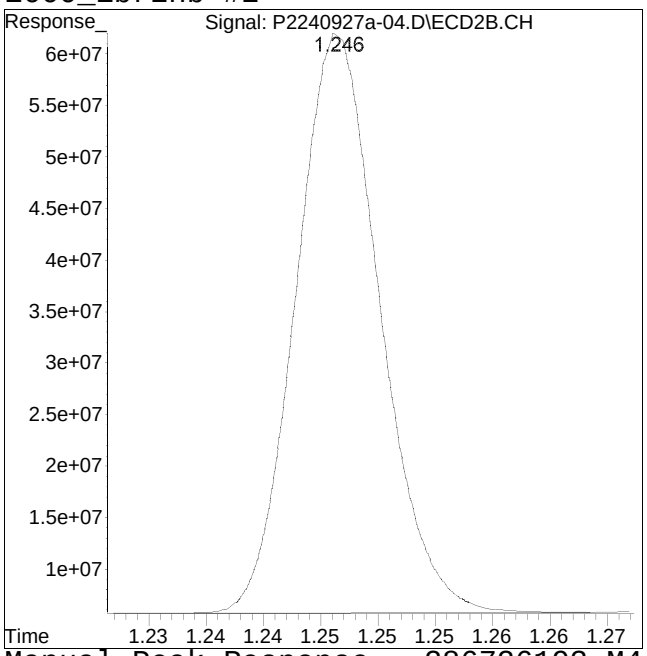
Original Peak Response = 201305773 Manual Peak Response = 197115243 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #52: 1660_1br2nb #2



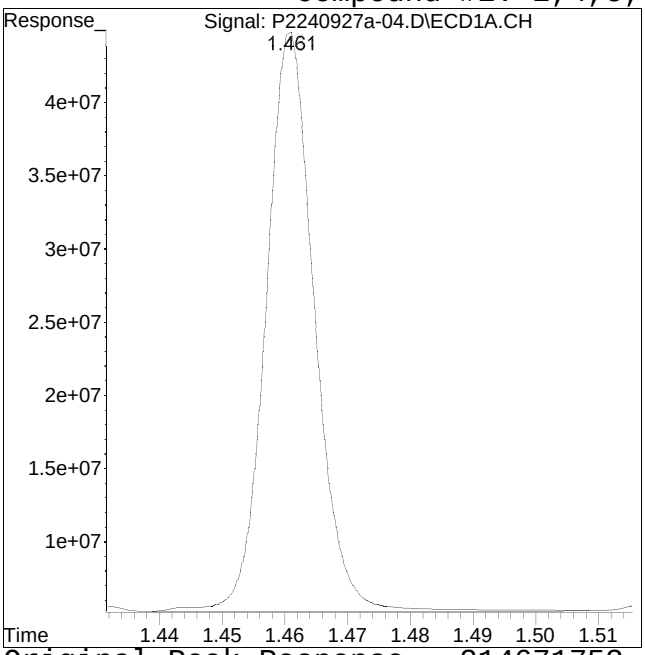


Original Peak Response = 310859714 Manual Peak Response = 286726193 M4
M4 = Poor automated baseline construction.

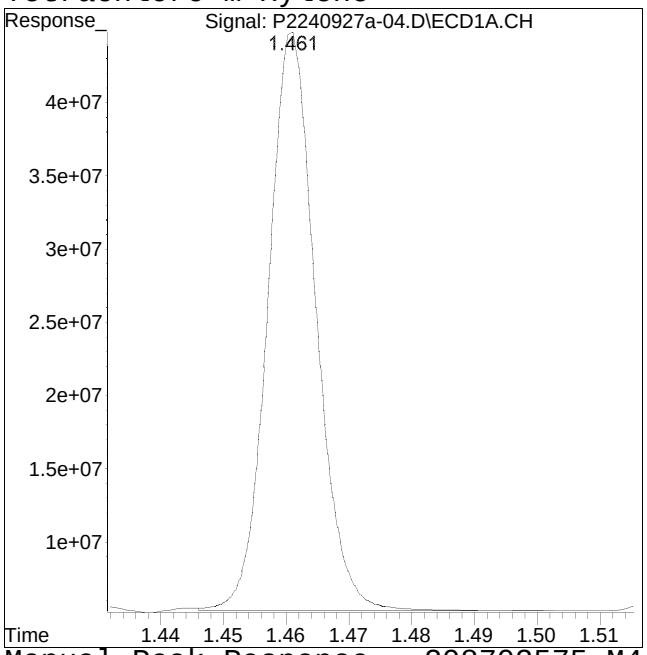
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 214671753



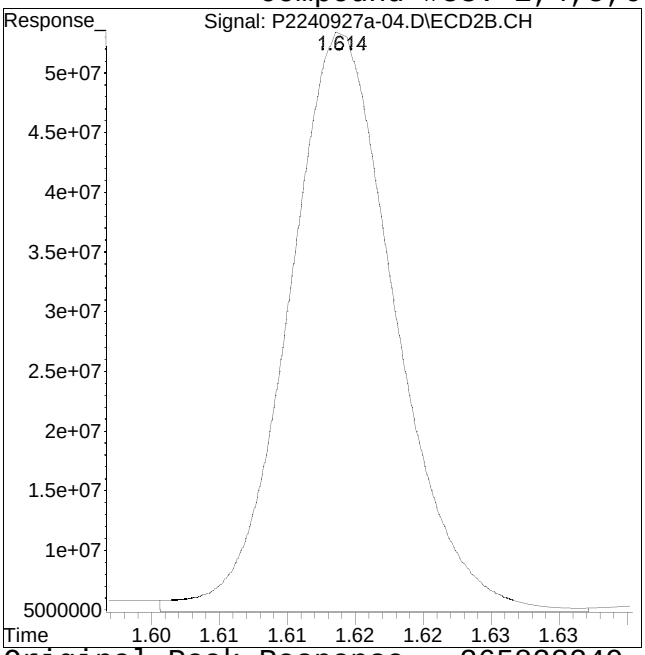
Manual Peak Response = 208703575 M4

M4 = Poor automated baseline construction.

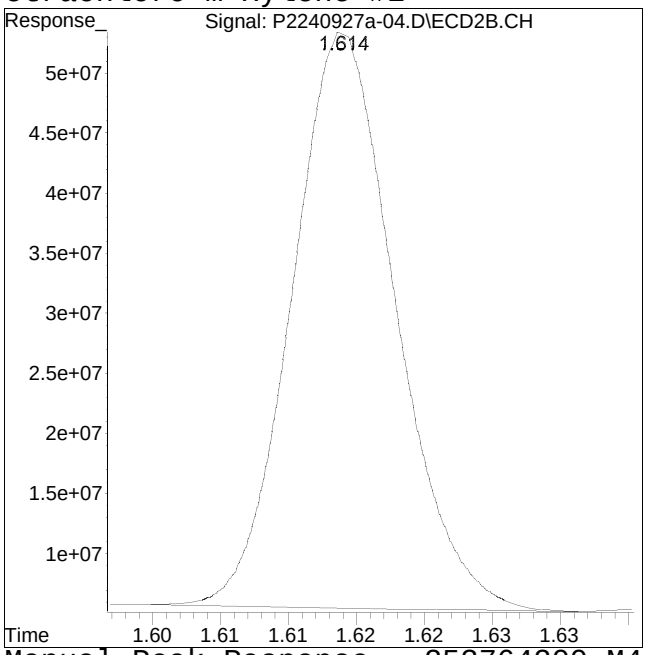
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 265822249



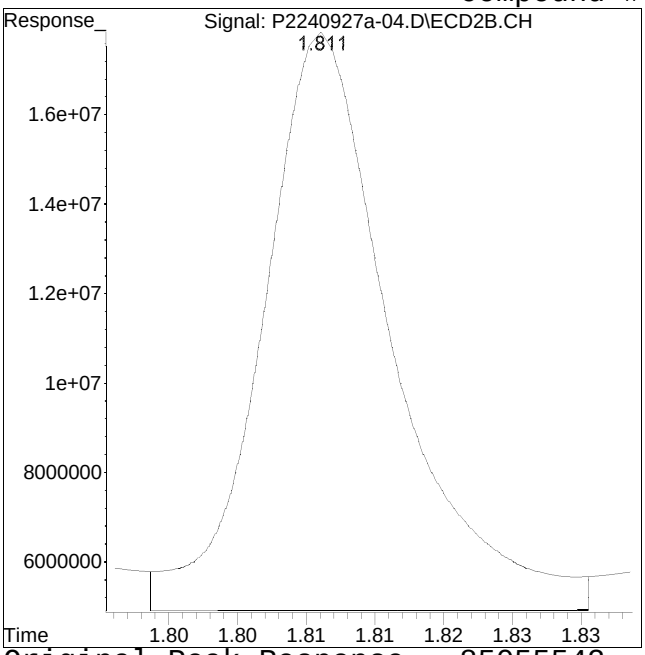
Manual Peak Response = 253764200 M4

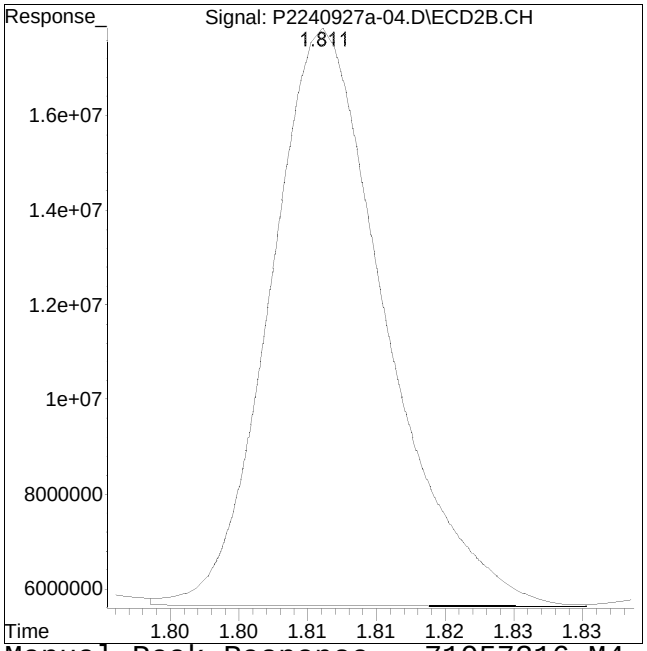
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #55: 1016-1 #2



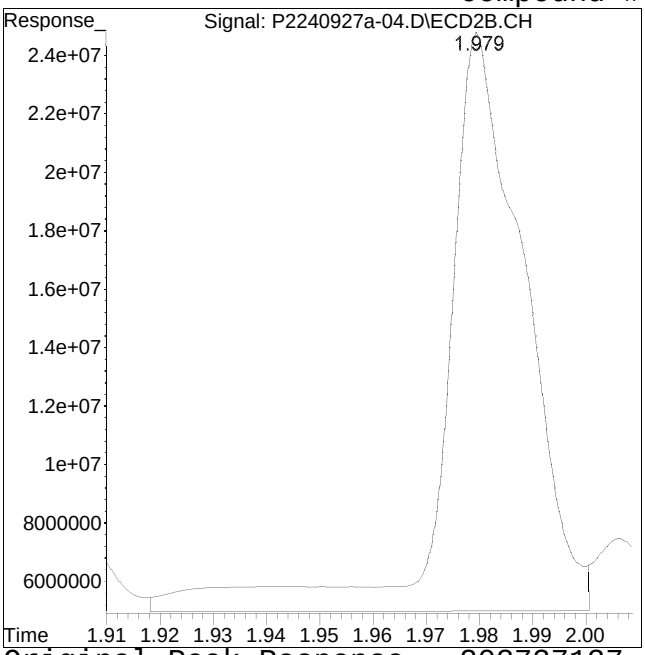


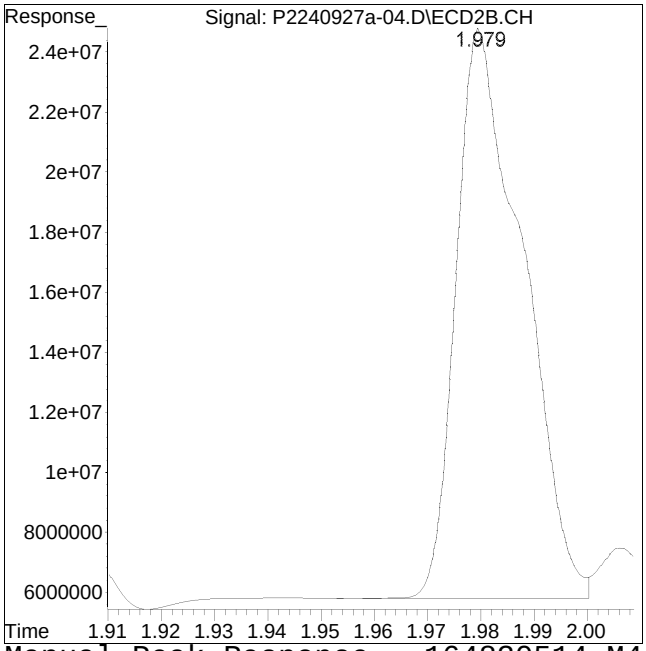
Original Peak Response = 85055542 Manual Peak Response = 71057316 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #56: 1016-2 #2



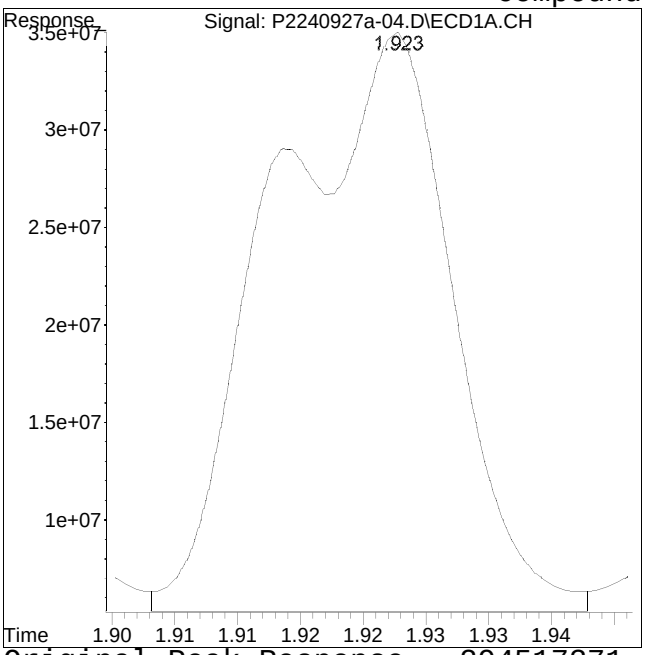


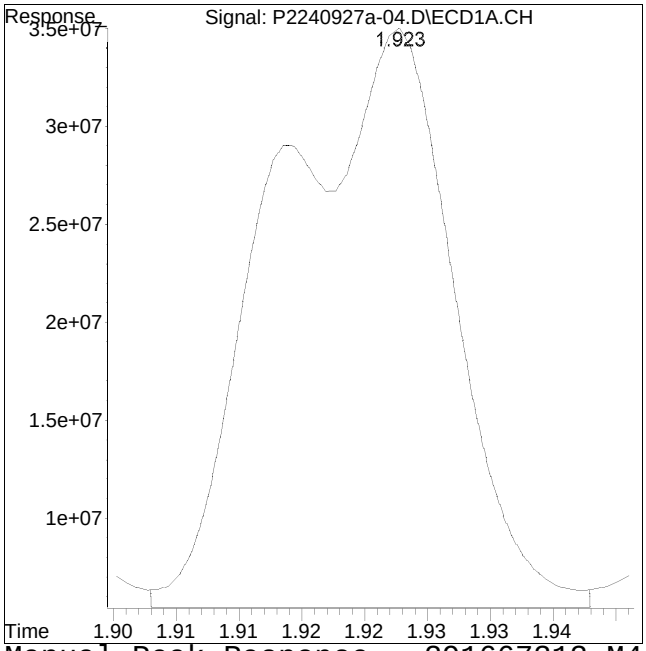
Original Peak Response = 203737137 Manual Peak Response = 164830514 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #6: 1016-3



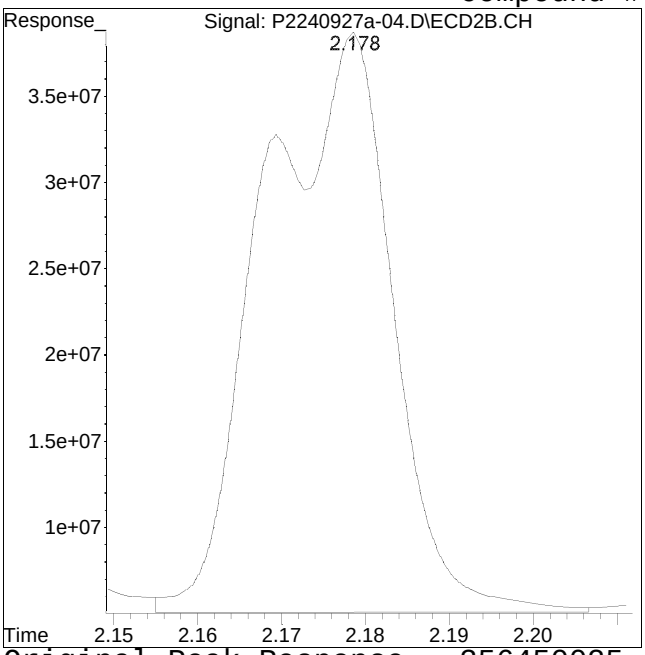


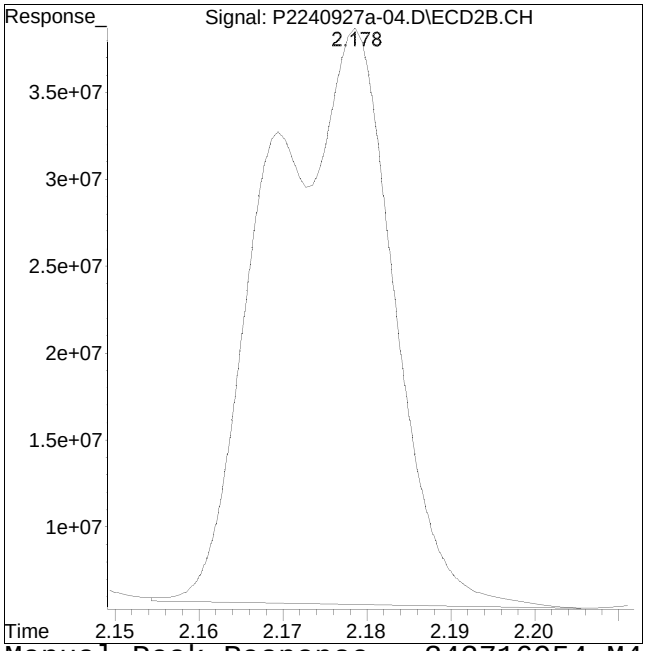
Original Peak Response = 294517371 Manual Peak Response = 291667313 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #57: 1016-3 #2



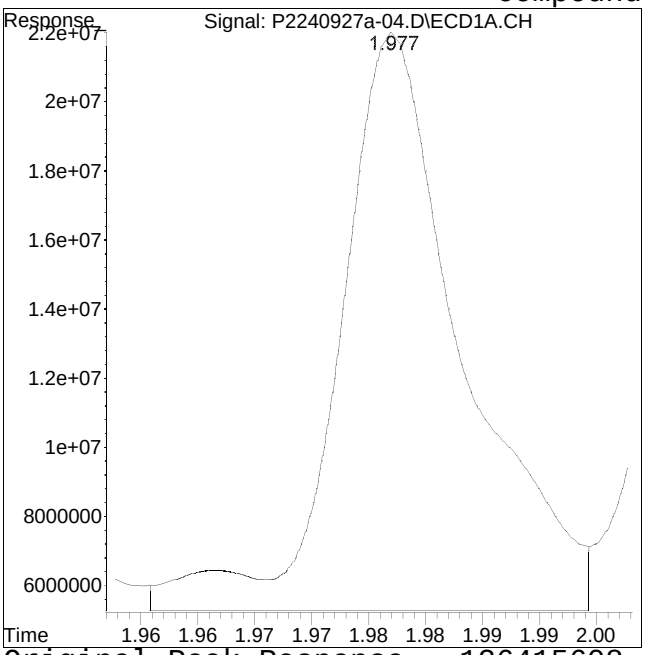


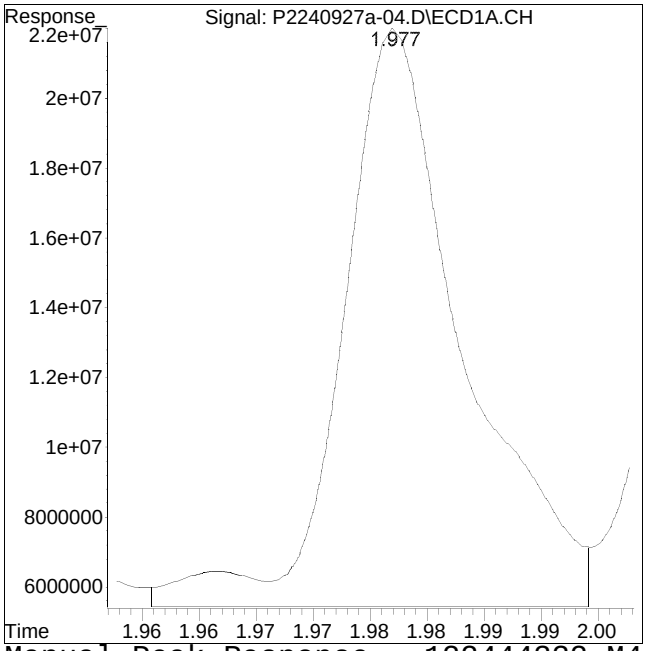
Original Peak Response = 356450025 Manual Peak Response = 342716954 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #7: 1016-4



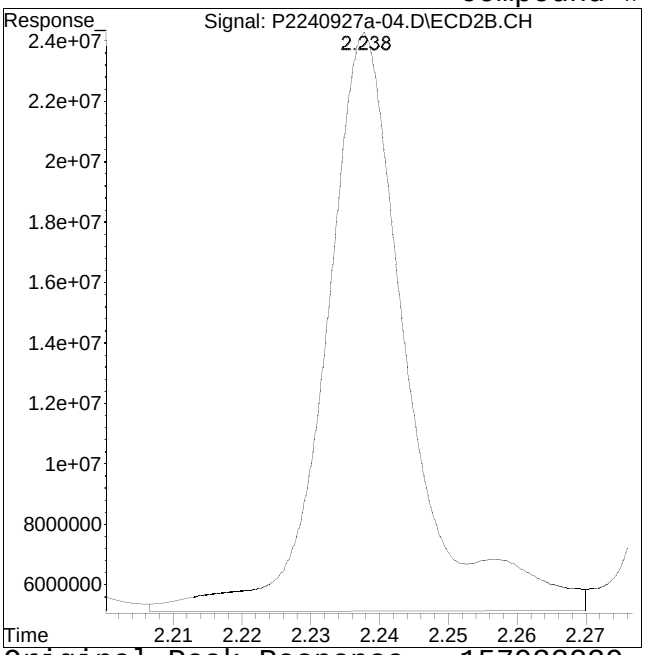


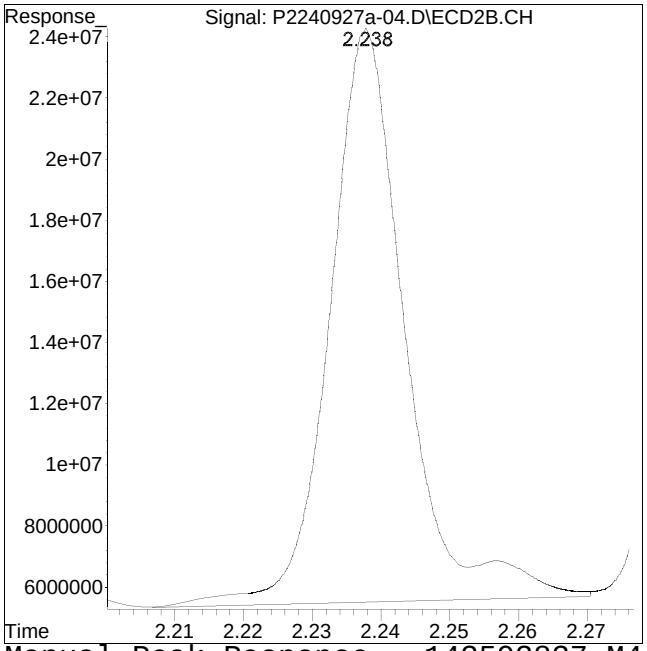
Original Peak Response = 126415608 Manual Peak Response = 122444332 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #58: 1016-4 #2



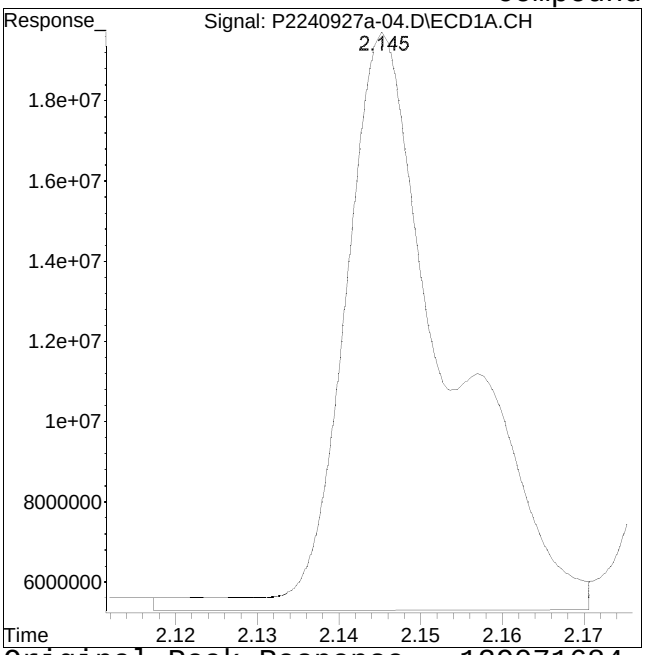


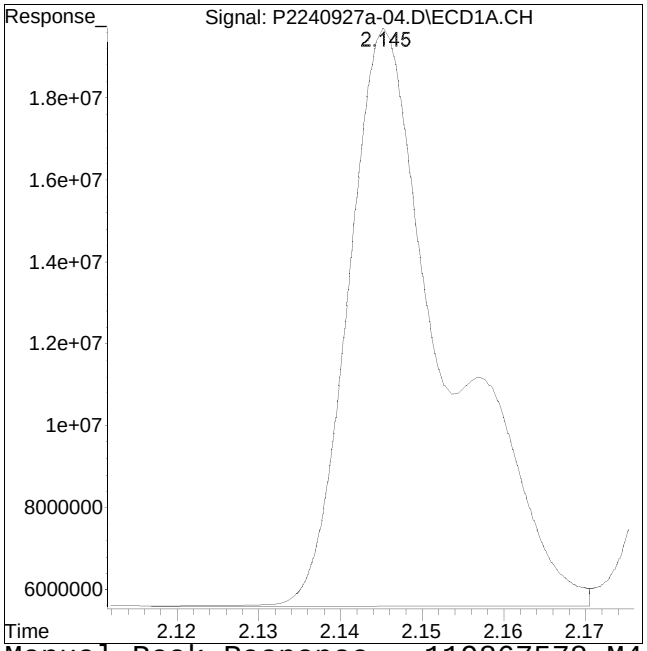
Original Peak Response = 157932239 Manual Peak Response = 143593837 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #8: 1016-5



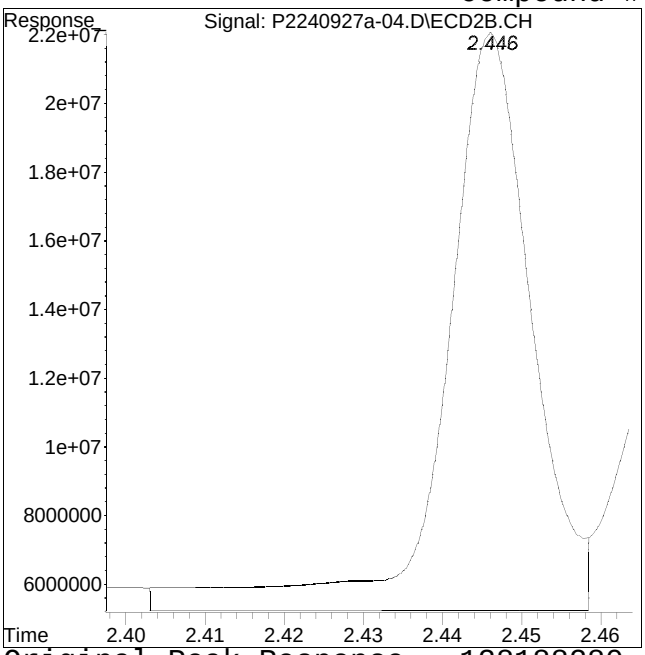


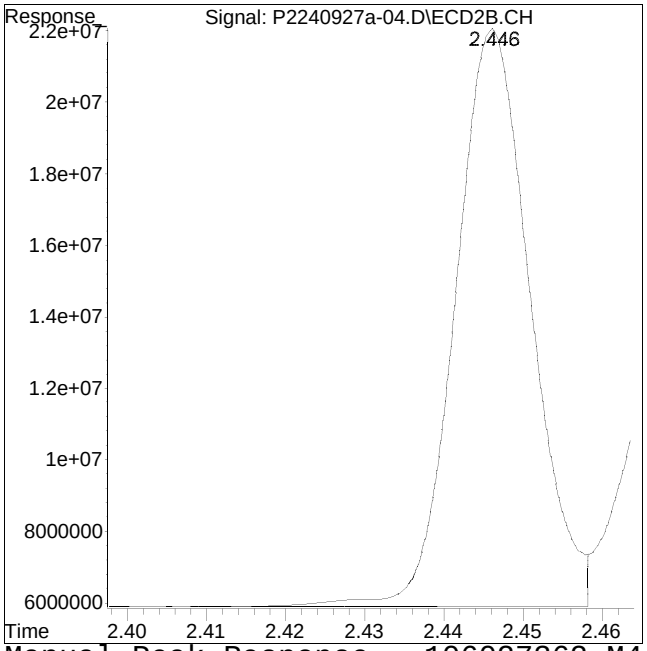
Original Peak Response = 129071684 Manual Peak Response = 119867578 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #59: 1016-5 #2



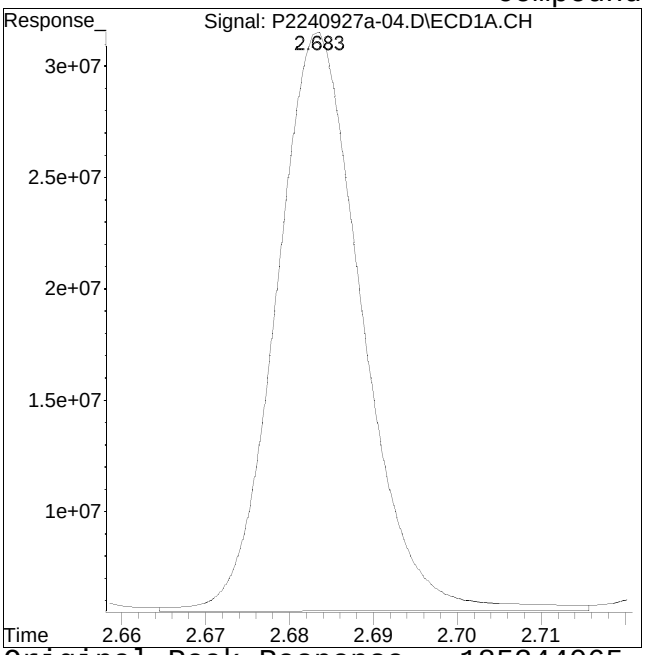


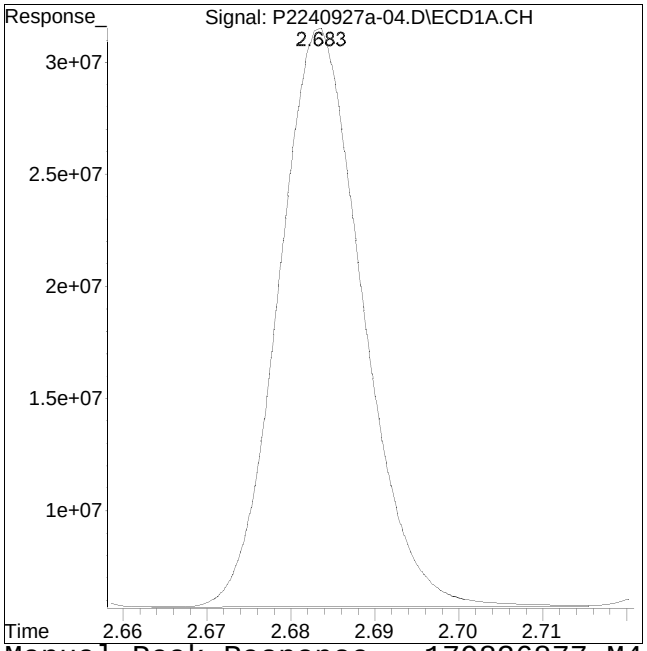
Original Peak Response = 128188280 Manual Peak Response = 106027362 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #9: 1260-1



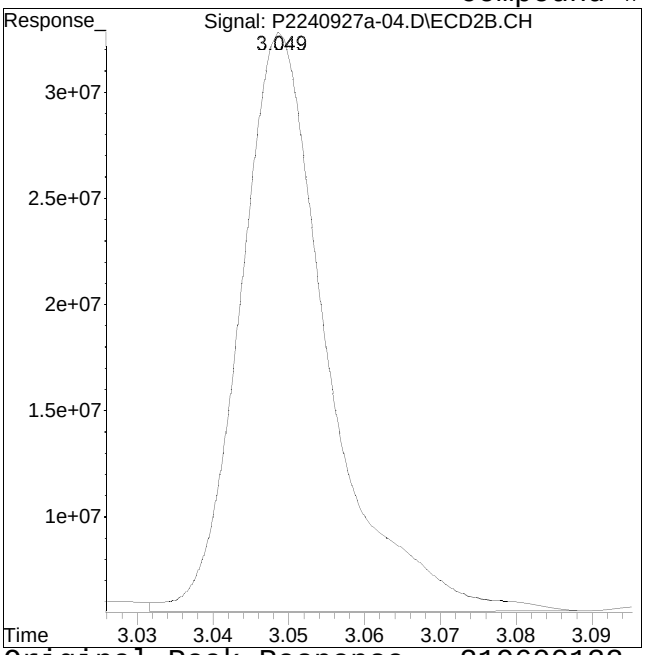


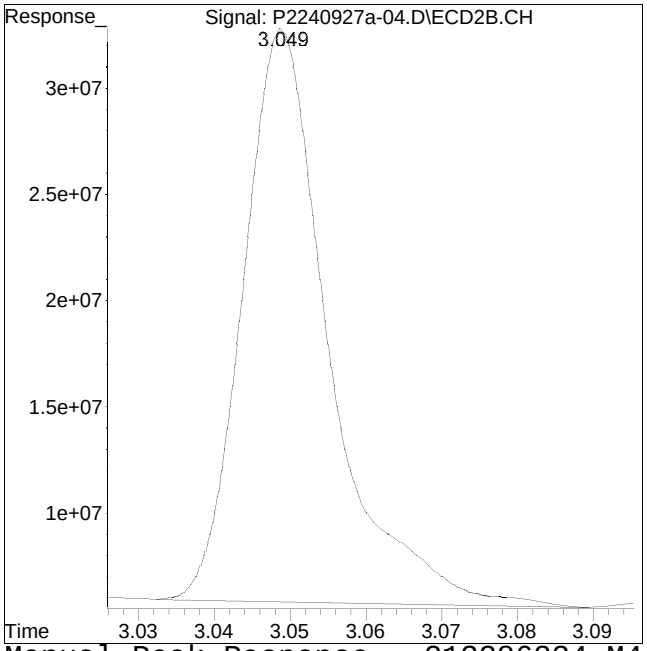
Original Peak Response = 185344065 Manual Peak Response = 179836877 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #60: 1260-1 #2



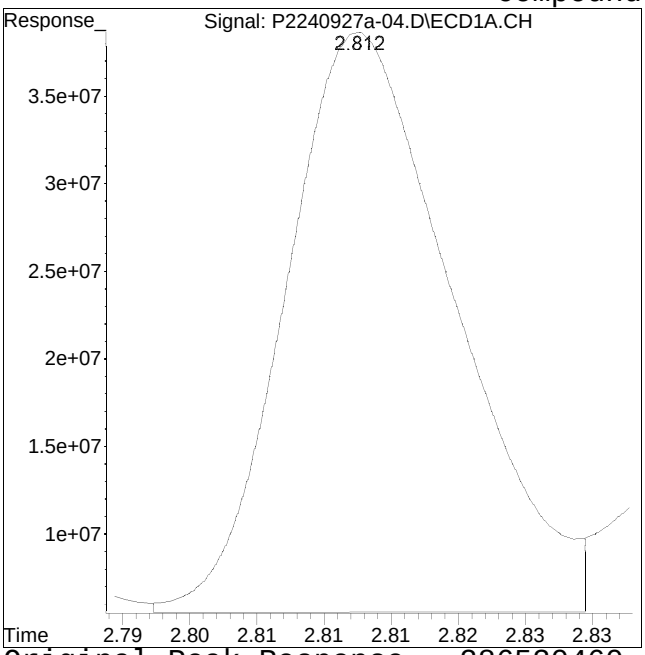


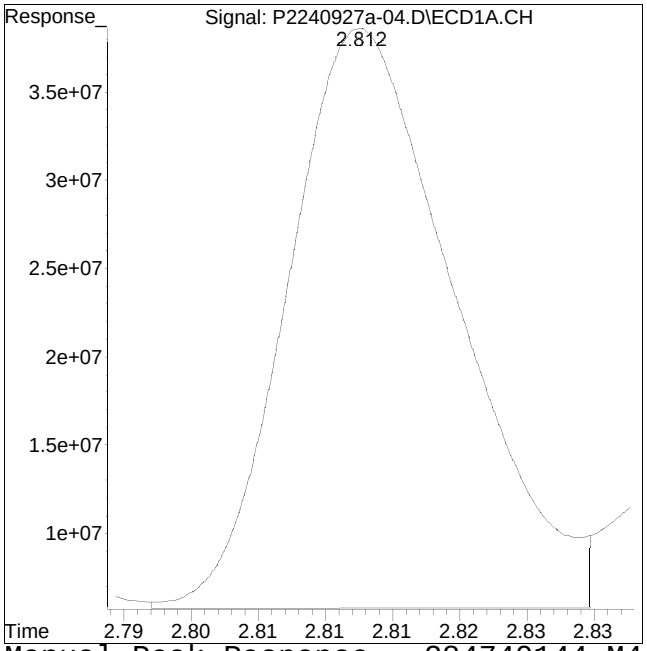
Original Peak Response = 219600132 Manual Peak Response = 213386234 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #10: 1260-2



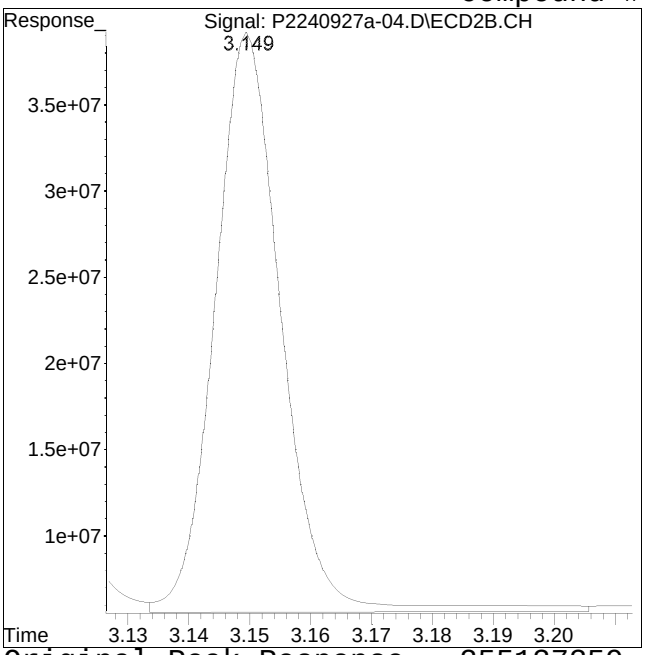


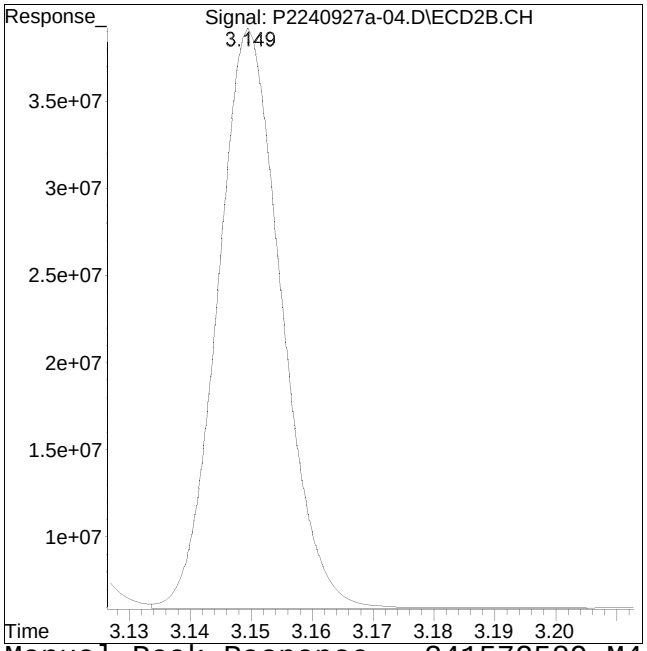
Original Peak Response = 286530460 Manual Peak Response = 284740144 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #61: 1260-2 #2



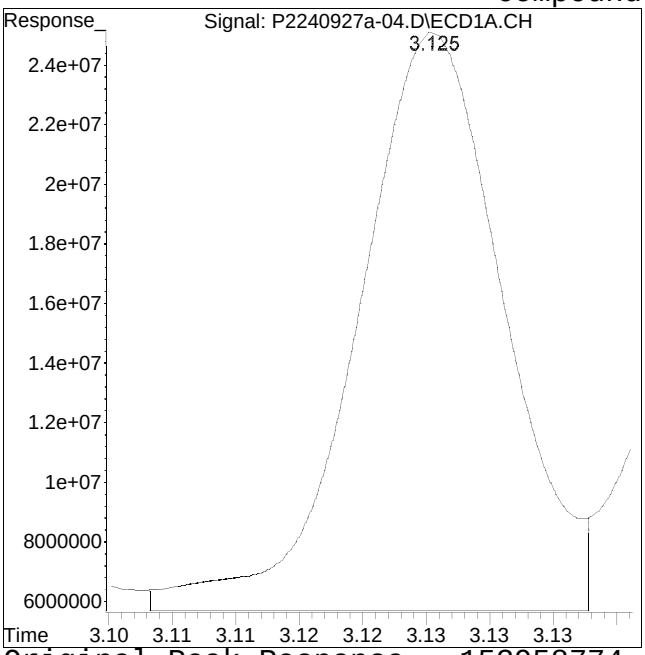


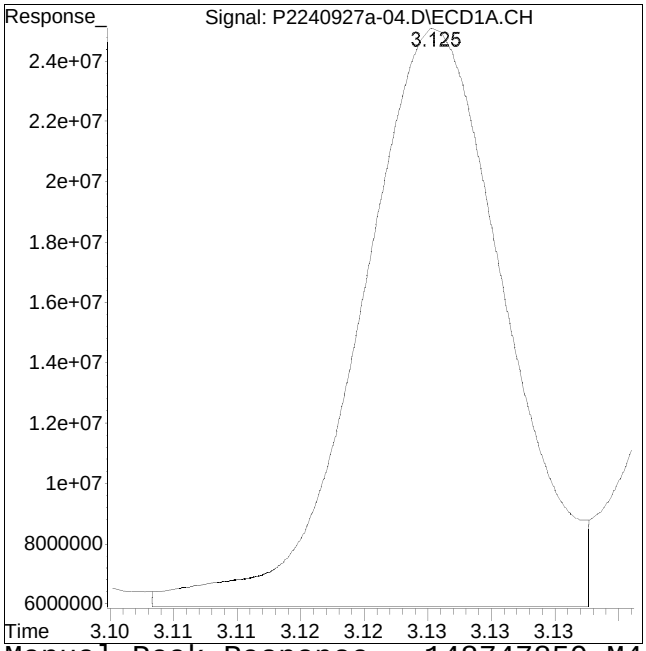
Original Peak Response = 255137359 Manual Peak Response = 241572589 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #11: 1260-3



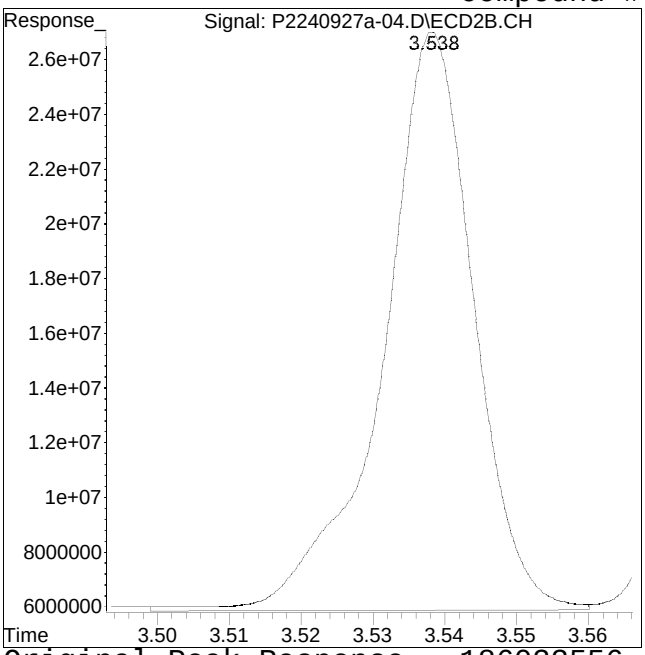


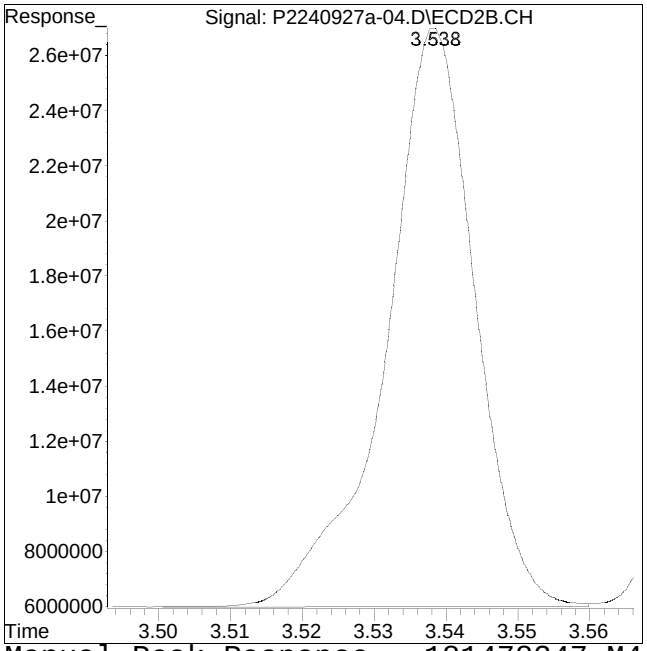
Original Peak Response = 153958774 Manual Peak Response = 148747850 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #62: 1260-3 #2



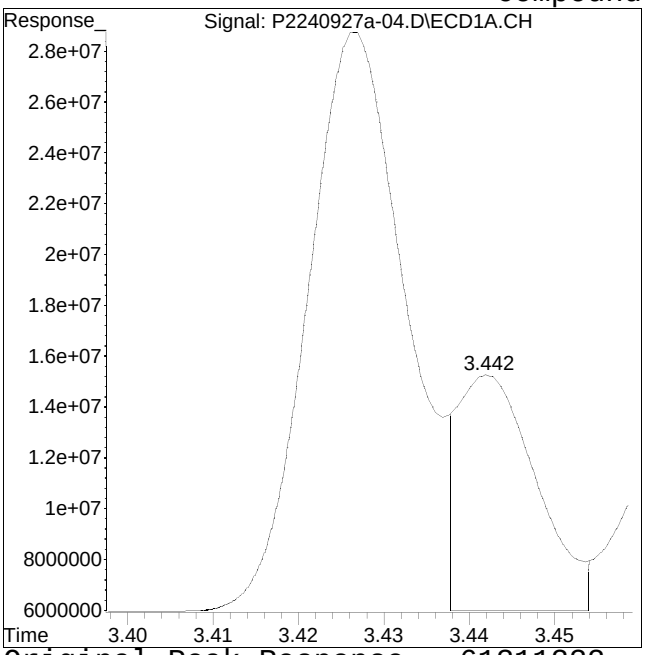


Original Peak Response = 186033556 Manual Peak Response = 181478247 M4
M4 = Poor automated baseline construction.

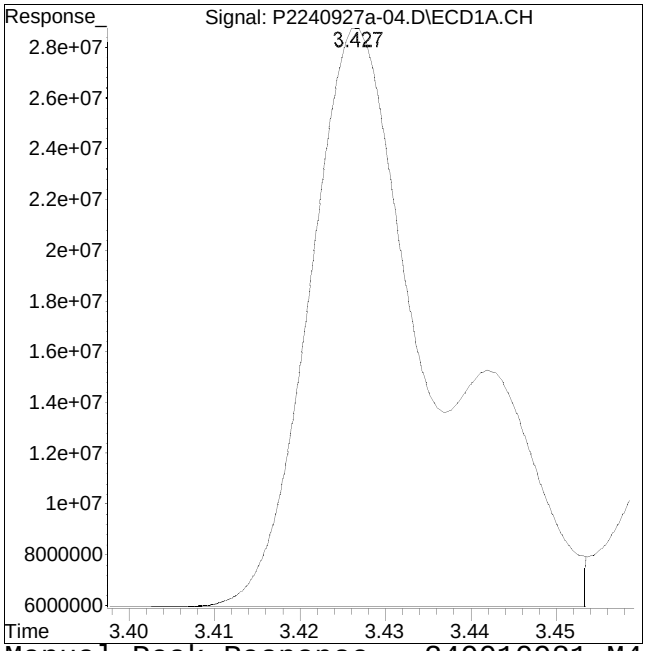
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #13: 1260-5



Original Peak Response = 61311232

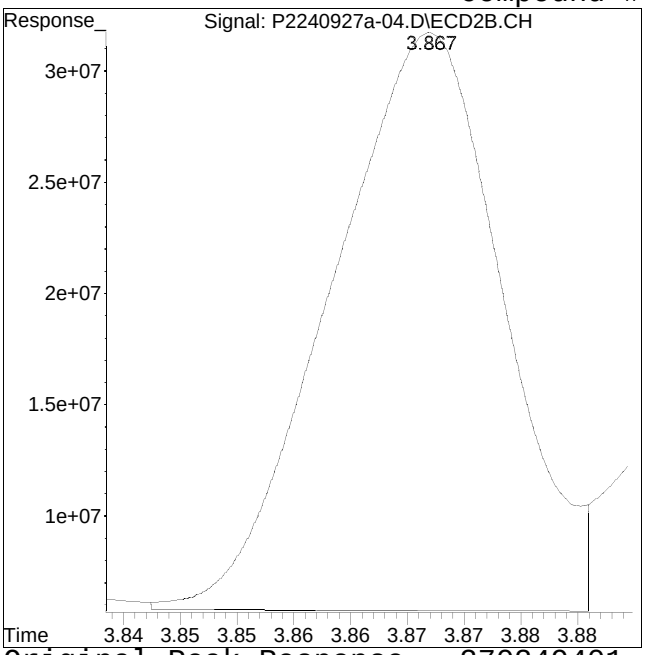


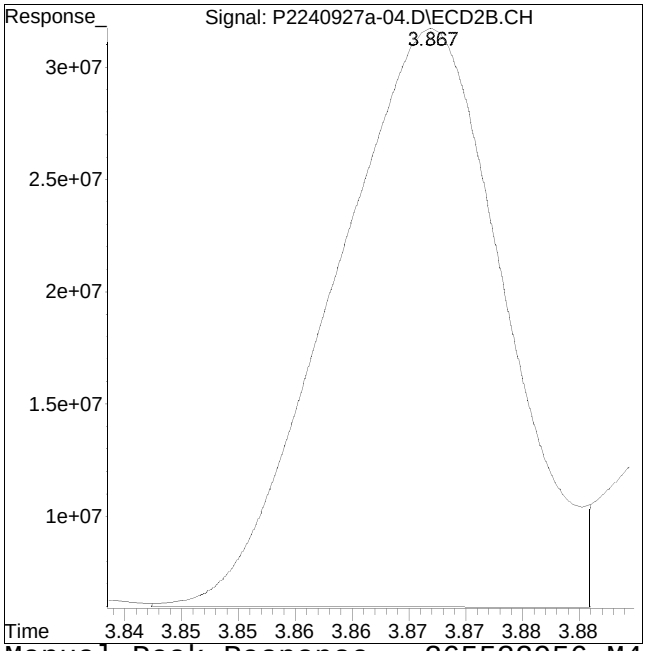
Manual Peak Response = 240010981 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-04.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 5:57 Instrument : Pest 2
Sample : WG1977023-1,42,,cicv1660,4Quant Date : 9/27/2024 6:04 am

Compound #64: 1260-5 #2





Original Peak Response = 270249401 Manual Peak Response = 265532956 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240927a\
Data File : P2240927a-31.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 12:25
Operator : pest2:mhg
Sample : wg1977023-5,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 12:45:14 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	87	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.743	-20.1#	105	0.00
3	s	Decachlorobiphenyl		1.154	1.357	-17.6	112	-0.02
4	l1	1016-1		0.027	0.030	-11.1	104	0.00
5	l1	1016-2		0.059	0.058	1.7	95	0.00
6	l1	1016-3		0.117	0.153	-30.8#	118	0.00
7	l1	1016-4		0.049	0.065	-32.7#	119	0.00
8	l1	1016-5		0.054	0.064	-18.5	111	0.00
9	l2	1260-1		0.075	0.094	-25.3#	118	0.00
10	l2	1260-2		0.113	0.148	-31.0#	122	0.00
11	l2	1260-3		0.069	0.079	-14.5	103	-0.01
12	l2	1260-4		0.151	0.151	0.0	90	-0.01
13	l2	1260-5		0.108	0.125	-15.7	107	-0.01
52	i	1660_1br2nb #2	^	1.000	1.000	0.0	115	0.00
53	s	2,4,5,6-Tetrachloro-m-xylen		1.638	1.475	10.0	110	0.00
54	s	Decachlorobiphenyl #2		1.101	1.041	5.4	128	-0.03
55	l1	1016-1 #2		0.030	0.025	16.7	107	0.00
56	l1	1016-2 #2		0.065	0.064	1.5	123	-0.01
57	l1	1016-3 #2		0.131	0.123	6.1	120	-0.01
58	l1	1016-4 #2		0.053	0.049	7.5	120	-0.01
59	l1	1016-5 #2		0.042	0.040	4.8	119	-0.02
60	l2	1260-1 #2		0.082	0.084	-2.4	133	-0.02
61	l2	1260-2 #2		0.097	0.096	1.0	130	-0.02
62	l2	1260-3 #2		0.079	0.071	10.1	118	-0.02
63	l2	1260-4 #2		0.155	0.112	27.7#	92	-0.02
64	l2	1260-5 #2		0.111	0.106	4.5	125	-0.03

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240927a\
Data File : P2240927a-31.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2024 12:25
Operator : pest2:mhg
Sample   : wg1977023-5,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc   : wg1977023,,ICAL21500
ALS Vial : 30 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 12:45:14 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927a\
Data File : P2240927a-31.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 12:25
Operator : pest2:mhg
Sample : wg1977023-5,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 12:45:14 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.183	1.248	187.1E6	283.1E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.464	1.616	208.7E6	267.2E6	19.222	14.402
	Spiked Amount	20.000	Range 30 - 150		Recovery =	96.11%	72.01%
3) s	Decachlorobi	4.011	4.514f	325.0E6	377.3E6	37.632	30.265
	Spiked Amount	20.000	Range 30 - 150		Recovery =	188.16%#	151.32%#
	Target Compounds						
4) l1	1016-1	1.600	1.813	55705811	70819702	275.182M3	207.214M4
5) l1	1016-2	1.740	1.982	109.2E6	180.5E6	247.829M4	244.027M4
6) l1	1016-3	1.926	2.182	285.4E6	347.8E6	326.755M4	234.630M4
7) l1	1016-4	1.980	2.241	121.2E6	139.8E6	329.361M4	233.739M4
8) l1	1016-5	2.148	2.449f	118.9E6	114.4E6	293.306M4	239.871M4
	Sum 1016-1			690.5E6	853.3E6	1472.434	1159.481
	Average 1016-1					294.487	231.896
9) l2	1260-1	2.687	3.053f	175.3E6	237.3E6	314.303	254.988
10) l2	1260-2	2.816	3.153f	276.5E6	272.3E6	326.211	247.716
11) l2	1260-3	3.130	3.542f	148.6E6	201.2E6	289.545	223.914
12) l2	1260-4	3.284	3.671f	282.4E6	316.4E6	250.628	179.876
13) l2	1260-5	3.431	3.871f	233.4E6	301.1E6	290.017	240.532M2
	Sum 1260-1			1116.1E6	1328.3E6	1470.704	1147.026
	Average 1260-1					294.141	229.405

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927a\
Data File : P2240927a-31.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 12:25
Operator : pest2:mhg
Sample : wg1977023-5,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 12:45:14 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

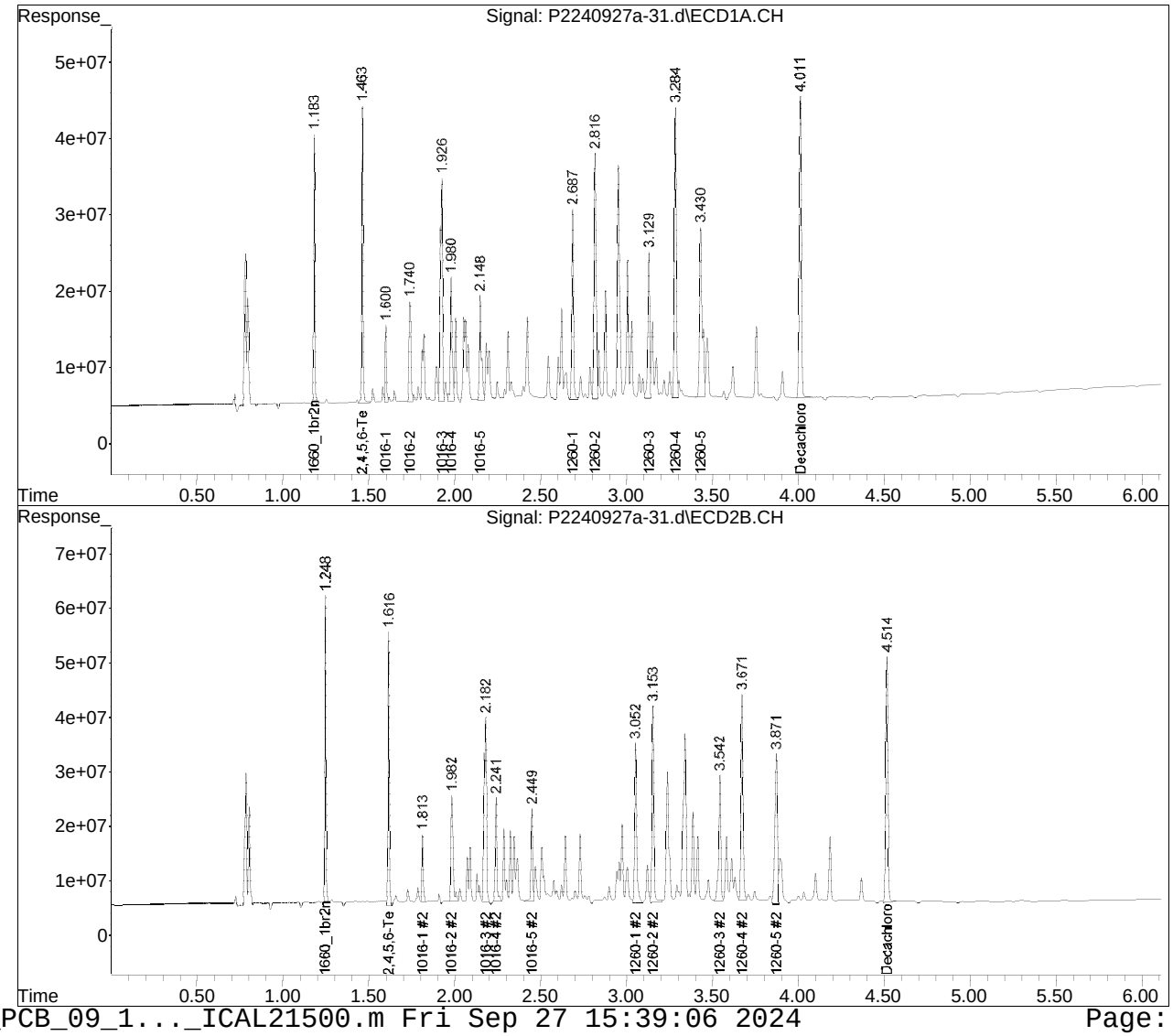
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927a\
Data File : P2240927a-31.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 12:25
Operator : pest2:mhg
Sample : wg1977023-5,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,,
Misc : wg1977023,,ICAL21500
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 12:45:14 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

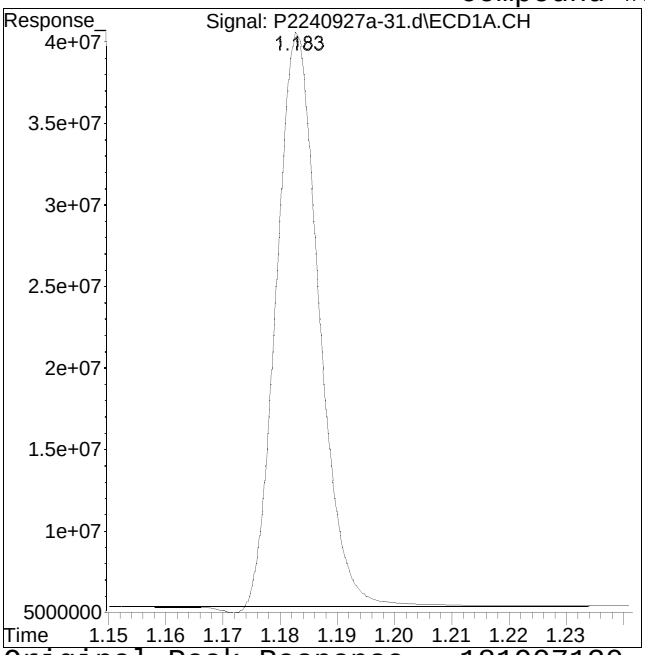
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

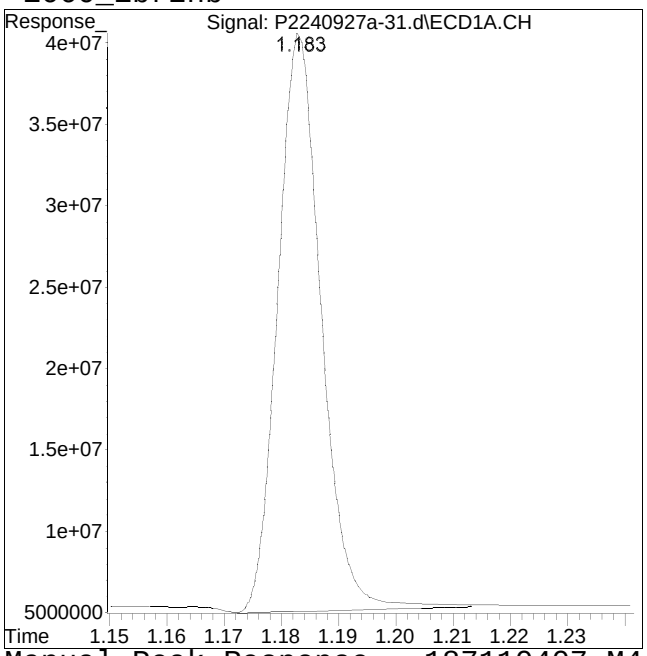


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #1: 1660_1br2nb



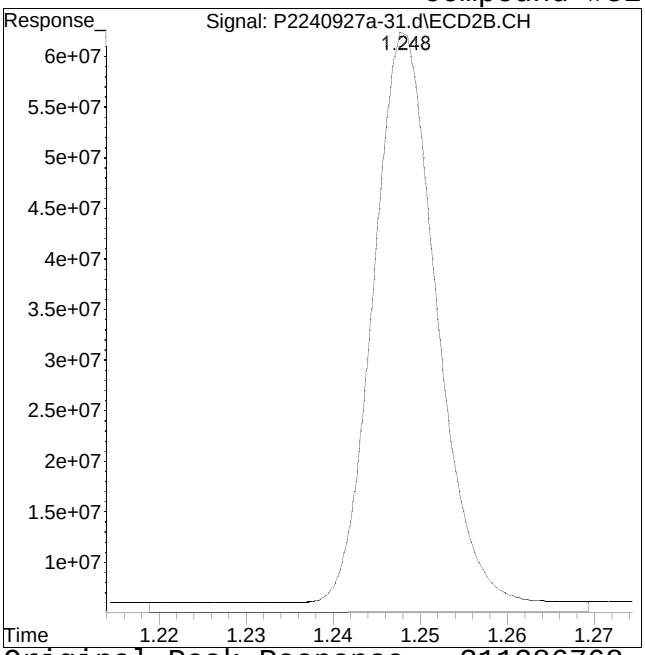


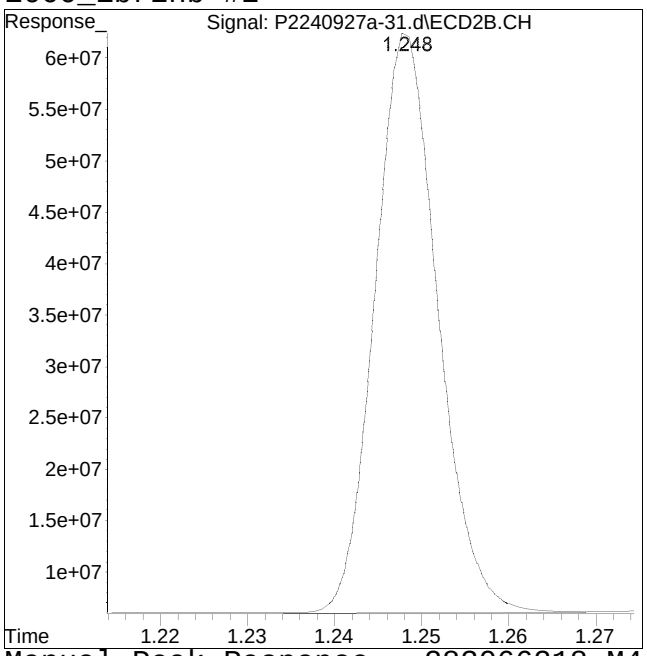
Original Peak Response = 181907130 Manual Peak Response = 187110407 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\Method : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #52: 1660_1br2nb #2



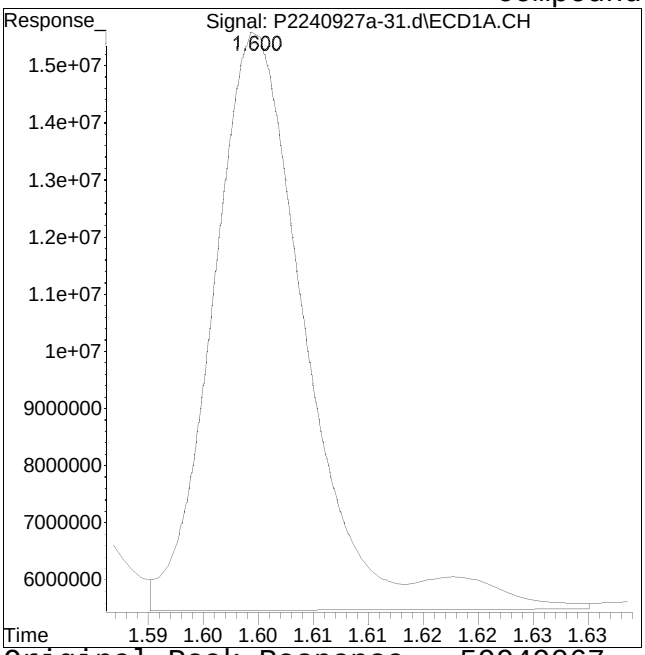


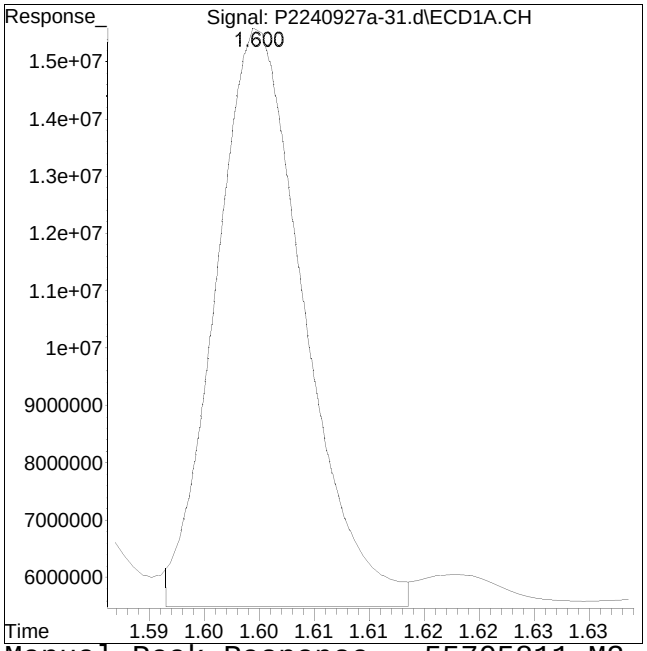
Original Peak Response = 311286768 Manual Peak Response = 283066218 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #4: 1016-1



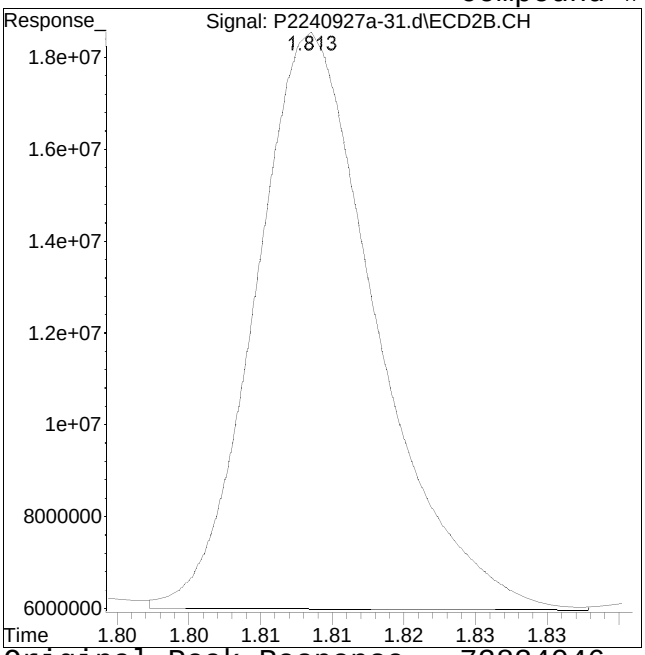


Original Peak Response = 59949067 Manual Peak Response = 55705811 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

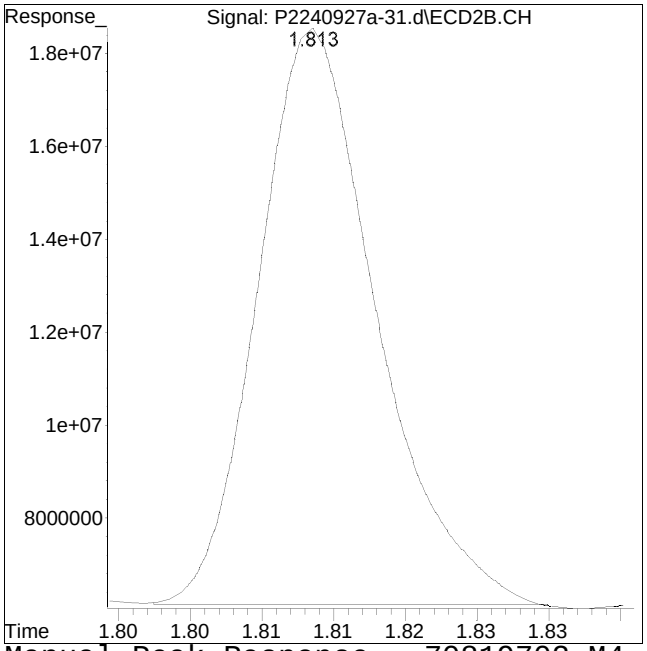
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #55: 1016-1 #2



Original Peak Response = 73834046



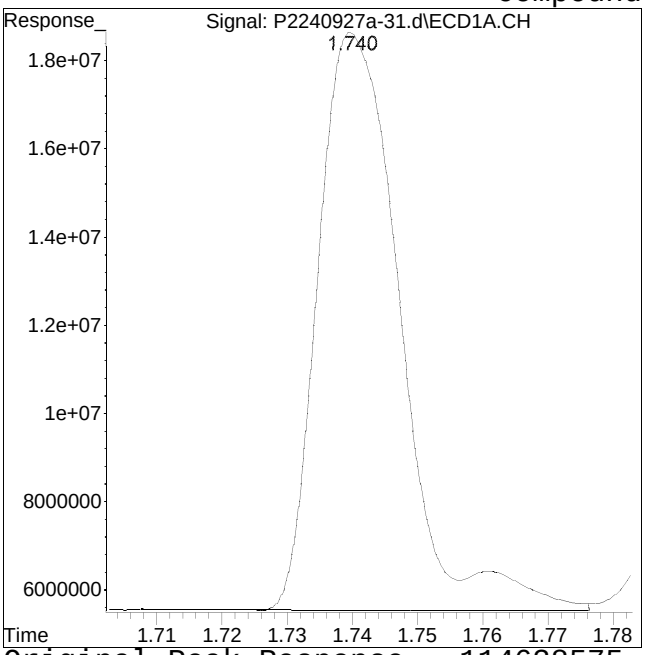
Manual Peak Response = 70819702 M4

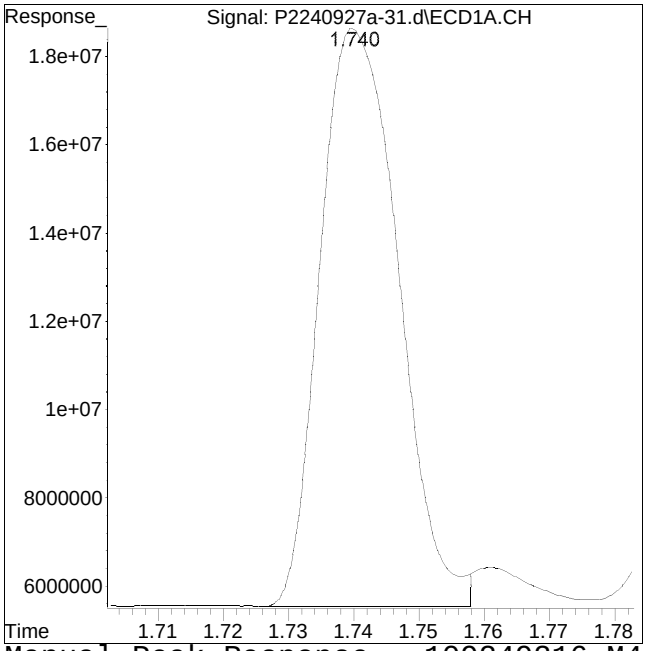
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #5: 1016-2



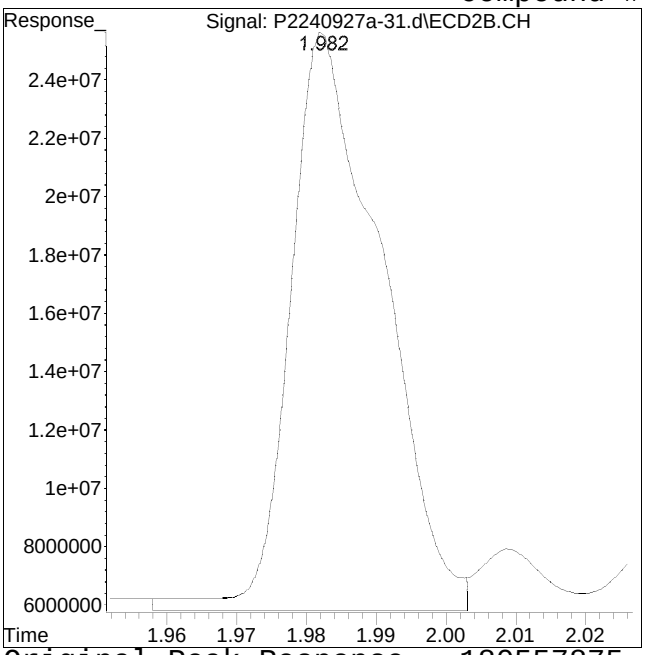


Original Peak Response = 114638575 Manual Peak Response = 109249216 M4
M4 = Poor automated baseline construction.

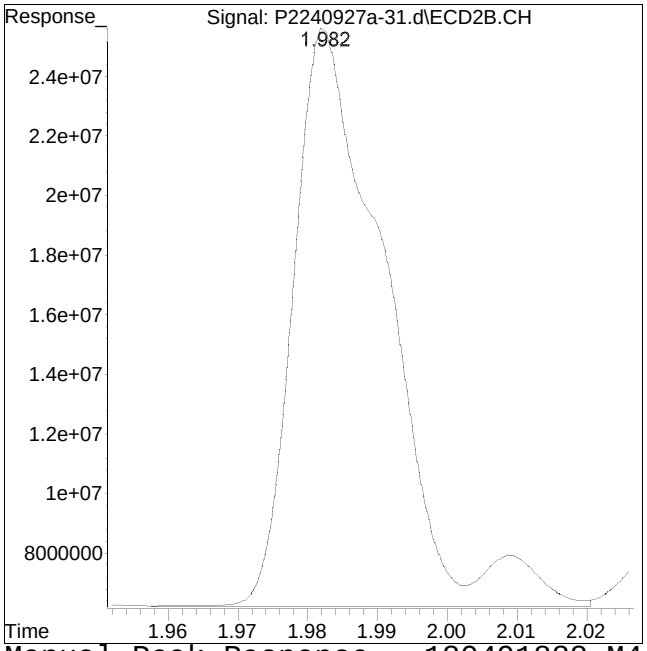
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #56: 1016-2 #2



Original Peak Response = 180557875



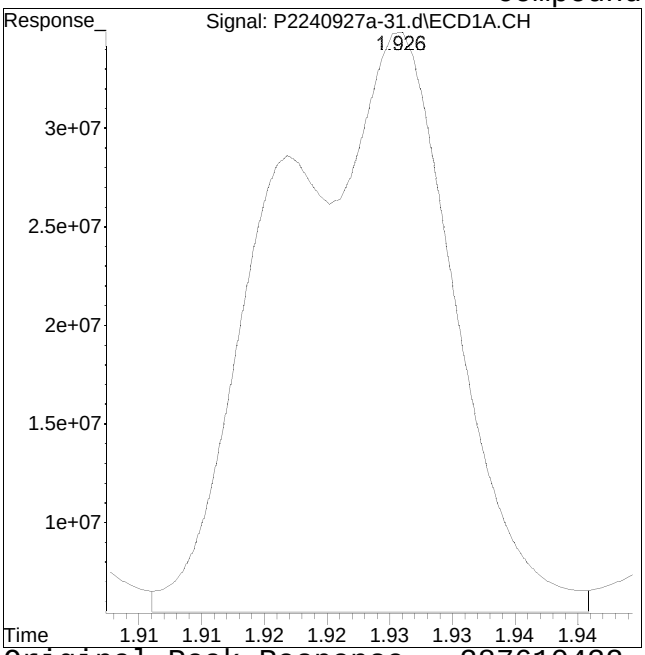
Manual Peak Response = 180491888 M4

M4 = Poor automated baseline construction.

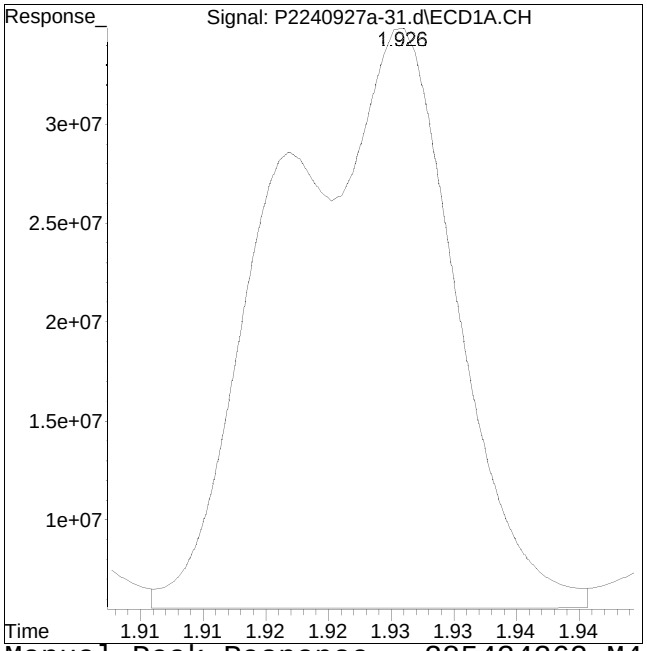
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #6: 1016-3



Original Peak Response = 287610432



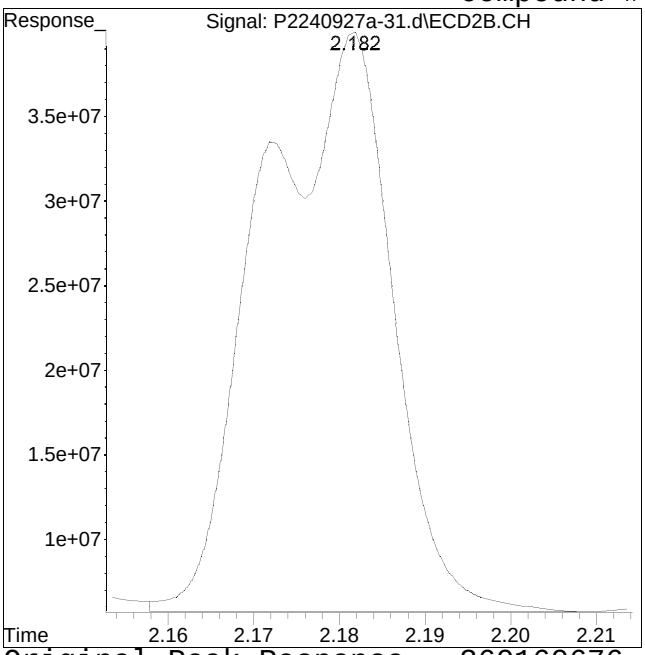
Manual Peak Response = 285434262 M4

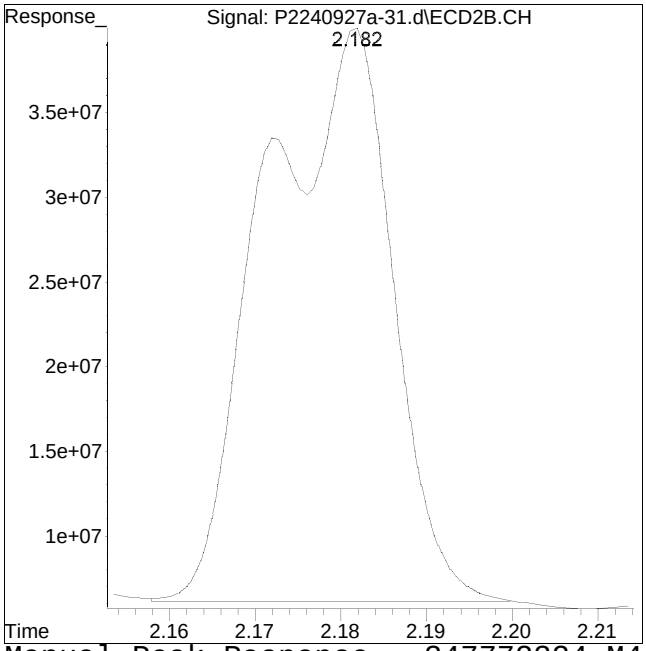
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #57: 1016-3 #2



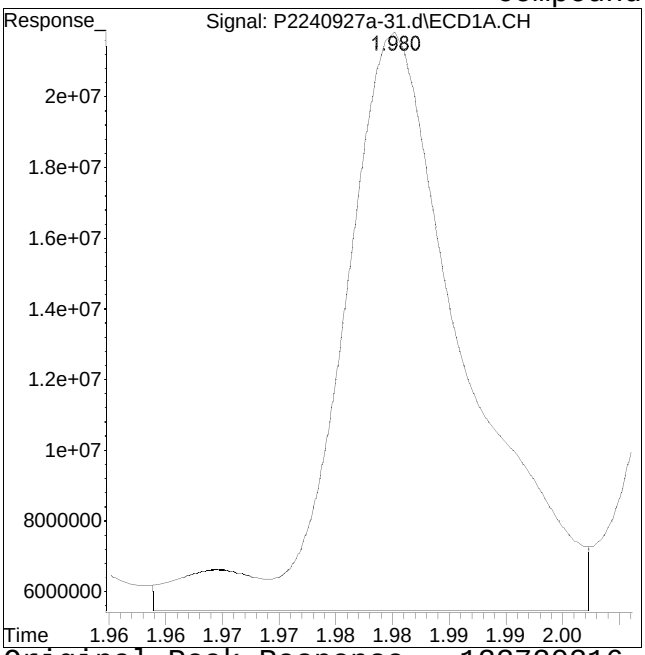


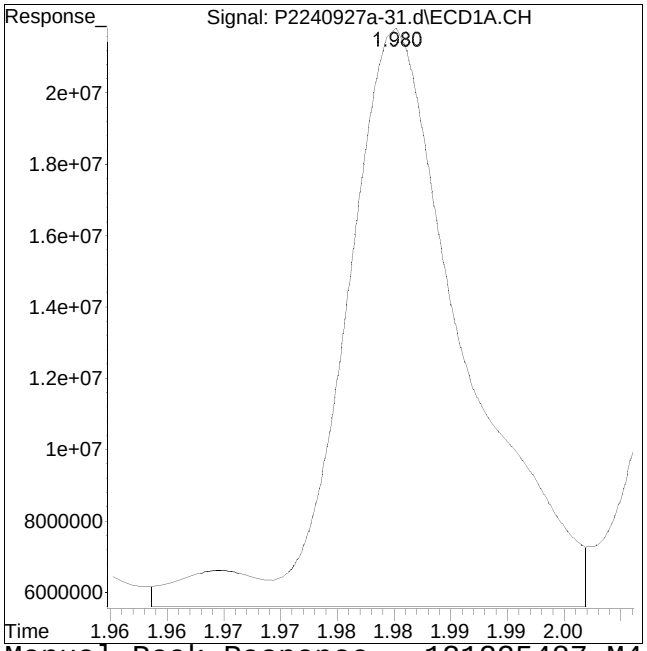
Original Peak Response = 360160676 Manual Peak Response = 347772324 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #7: 1016-4



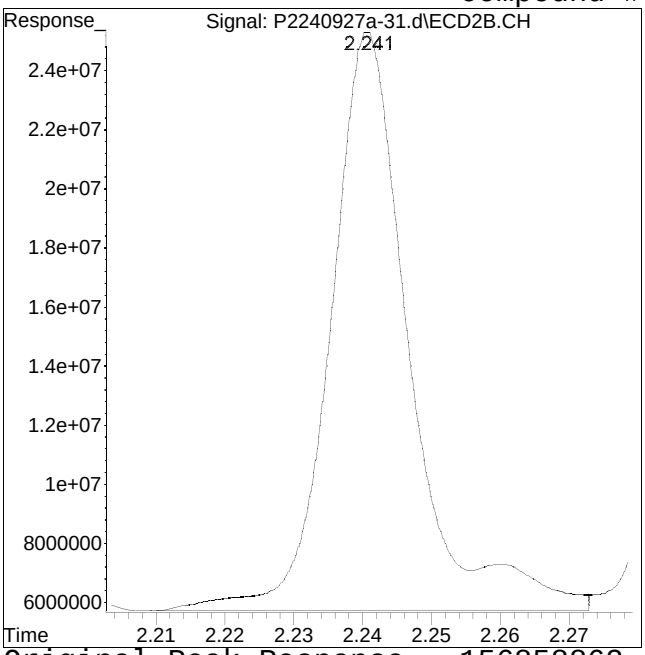


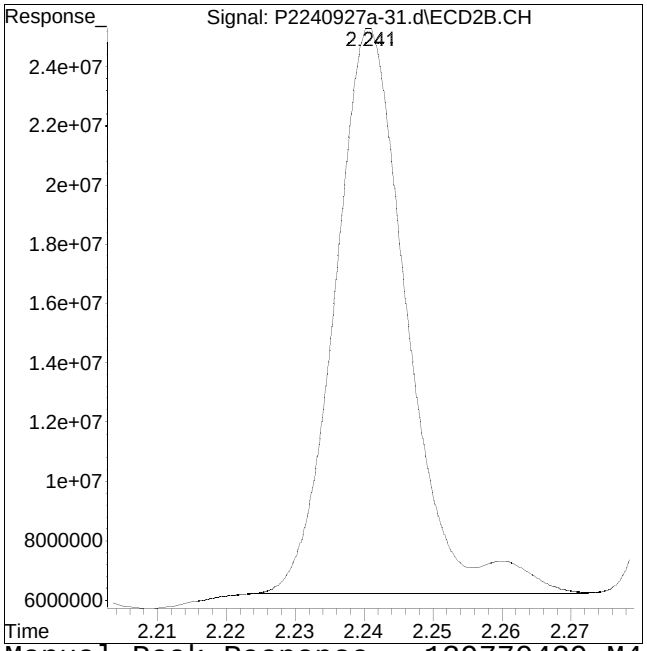
Original Peak Response = 123720316 Manual Peak Response = 121225487 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #58: 1016-4 #2



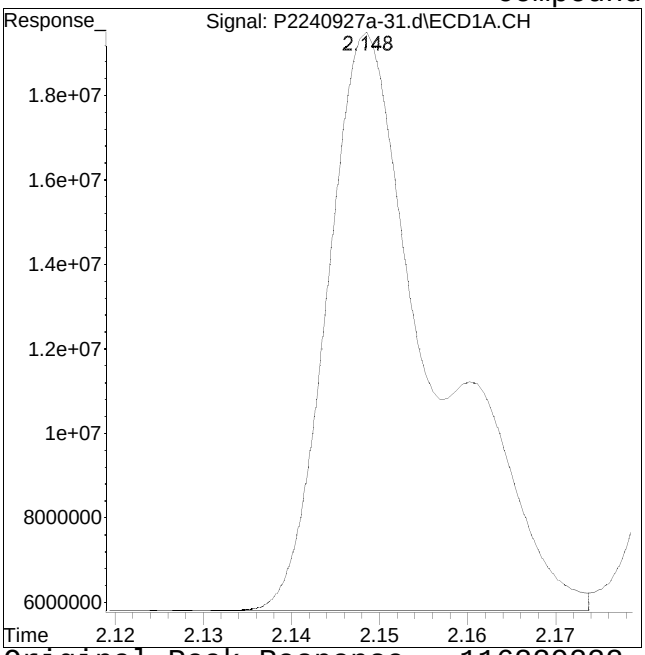


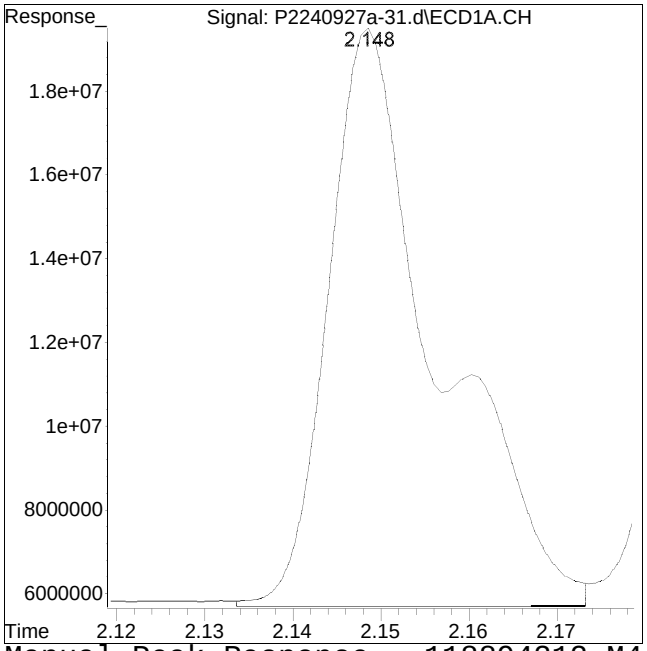
Original Peak Response = 156858862 Manual Peak Response = 139770439 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #8: 1016-5



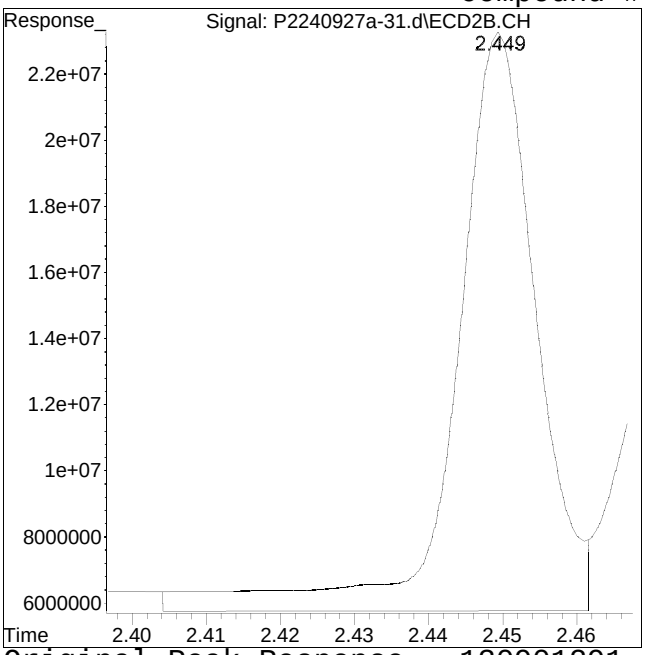


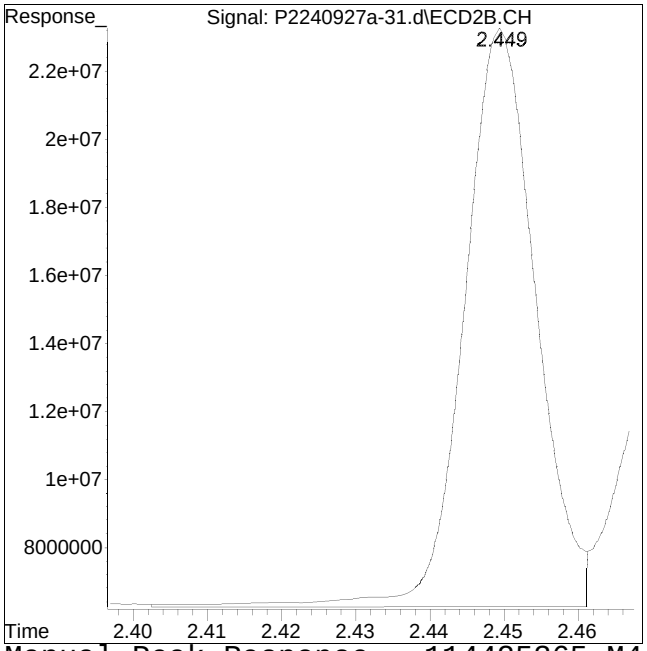
Original Peak Response = 116229222 Manual Peak Response = 118894212 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #59: 1016-5 #2



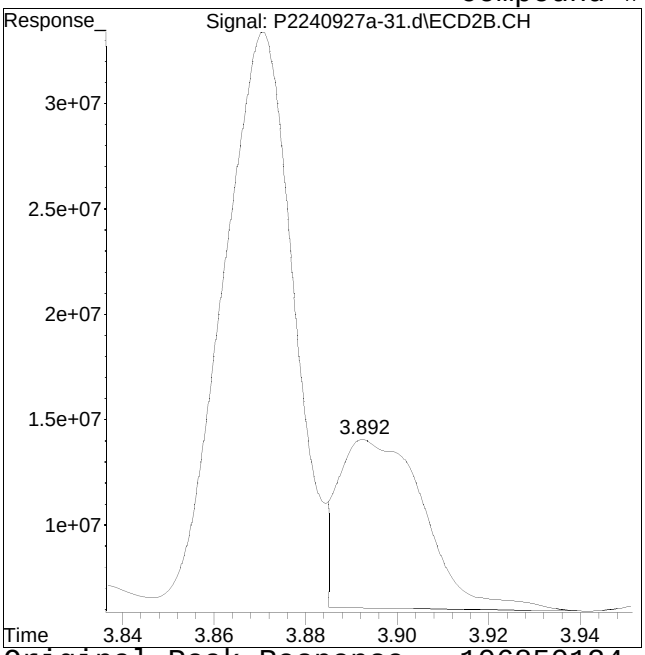


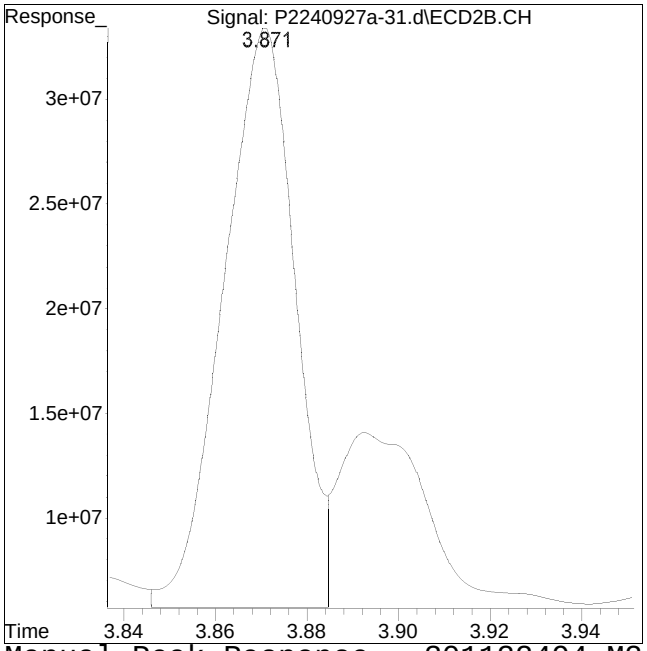
Original Peak Response = 130901291 Manual Peak Response = 114425365 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927a\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-31.d Operator : pest2:mhg
Date Inj'd : 9/27/2024 12:25 Instrument : Pest 2
Sample : wg1977023-5,42,,cicv1660,4Quant Date : 9/27/2024 12:45 pm

Compound #64: 1260-5 #2





Original Peak Response = 106850124 Manual Peak Response = 301132494 M2
M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,, lvi pp11761 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	112	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.412	2.7	109	0.00
3	s	Decachlorobiphenyl		1.154	1.072	7.1	114	-0.02
14	i	2154_1br2nb	^	1.000	1.000	0.0	111	0.00
15	l3	1221-1		0.015	0.014	6.7	104	0.00
16	l3	1221-2		0.00922	0.00820	11.1	99	0.00
17	l3	1221-3		0.037	0.034	8.1	103	0.00
18	l4	1254-1		0.052	0.052	0.0	111	0.00
19	l4	1254-2		0.093	0.098	-5.4	117	0.00
20	l4	1254-3		0.101	0.106	-5.0	116	0.00
21	l4	1254-4		0.071	0.074	-4.2	114	-0.01
22	l4	1254-5		0.099	0.094	5.1	106	-0.01
23	i	4268_1br2nb	^	1.000	1.000	0.0	118	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	116	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	115	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	125	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.314	19.8	106	0.00
3	s	Decachlorobiphenyl		1.101	0.878	20.3#	117	-0.03
14	i	2154_1br2nb	^	1.000	1.000	0.0	124	0.00
15	l3	1221-1		0.017	0.014	17.6	102	-0.01
16	l3	1221-2		0.01103	0.00912	17.3	103	-0.01

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,, lvi pp11761 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
17	l3	1221-3		0.040	0.033	17.5	101	-0.01
18	l4	1254-1		0.062	0.057	8.1	114	-0.02
19	l4	1254-2		0.073	0.063	13.7	107	-0.02
20	l4	1254-3		0.109	0.098	10.1	112	-0.02
21	l4	1254-4		0.073	0.065	11.0	112	-0.02
22	l4	1254-5		0.101	0.085	15.8	105	-0.03
23	i	4268_1br2nb	^	1.000	1.000	0.0	123	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	124	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	126	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.027	0.000	100.0#	0#	-1.60#
5	l1	1016-2		0.059	0.000	100.0#	0#	-1.74#
6	l1	1016-3		0.117	0.000	100.0#	0#	-1.93#
7	l1	1016-4		0.049	0.000	100.0#	0#	-1.98#
8	l1	1016-5		0.054	0.000	100.0#	0#	-2.15#
9	l2	1260-1		0.075	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.113	0.000	100.0#	0#	-2.83#
11	l2	1260-3		0.069	0.000	100.0#	0#	-3.14#
12	l2	1260-4		0.151	0.000	100.0#	0#	-3.30#
13	l2	1260-5		0.108	0.000	100.0#	0#	-3.44#
24	l6	1242-1		0.021	0.000	100.0#	0#	-1.60#
25	l6	1242-2		0.046	0.000	100.0#	0#	-1.74#
26	l6	1242-3		0.096	0.000	100.0#	0#	-1.93#
27	l6	1242-4		0.040	0.000	100.0#	0#	-1.99#
28	l6	1242-5		0.032	0.000	100.0#	0#	-2.34#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,, lvi pp11761 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29 l9	1268-1	0.209	0.000	100.0#	0#	-3.46#
30 l9	1268-2	0.189	0.000	100.0#	0#	-3.48#
31 l9	1268-3	0.154	0.000	100.0#	0#	-3.58#
32 l9	1268-4	0.067	0.000	100.0#	0#	-3.77#
33 l9	1268-5	0.467	0.000	100.0#	0#	-3.92#
35 l7	1248-1	0.060	0.000	100.0#	0#	-1.93#
36 l7	1248-2	0.078	0.000	100.0#	0#	-2.06#
37 l7	1248-3	0.070	0.000	100.0#	0#	-2.15#
38 l7	1248-4	0.060	0.000	100.0#	0#	-2.34#
39 l7	1248-5	0.056	0.000	100.0#	0#	-2.35#
41 l5	1232-1	0.029	0.000	100.0#	0#	-1.60#
42 l5	1232-2	0.027	0.000	100.0#	0#	-1.74#
43 l5	1232-3	0.055	0.000	100.0#	0#	-1.93#
44 l5	1232-4	0.023	0.000	100.0#	0#	-1.99#
45 l5	1232-5	0.017	0.000	100.0#	0#	-2.34#
46 l8	1262-1	0.083	0.000	100.0#	0#	-2.83#
47 l8	1262-2	0.105	0.000	100.0#	0#	-3.02#
48 l8	1262-3	0.091	0.000	100.0#	0#	-3.14#
49 l8	1262-4	0.185	0.000	100.0#	0#	-3.30#
50 l8	1262-5	0.059	0.000	100.0#	0#	-3.77#
Signal #2						
4 l1	1016-1	0.030	0.000	100.0#	0#	-1.82#
5 l1	1016-2	0.065	0.000	100.0#	0#	-1.99#
6 l1	1016-3	0.131	0.000	100.0#	0#	-2.19#
7 l1	1016-4	0.053	0.000	100.0#	0#	-2.25#
8 l1	1016-5	0.042	0.000	100.0#	0#	-2.46#
9 l2	1260-1	0.082	0.000	100.0#	0#	-3.07#
10 l2	1260-2	0.097	0.000	100.0#	0#	-3.17#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,, lvi pp11761 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
11 l2	1260-3	0.079	0.000	100.0#	0#	-3.57#
12 l2	1260-4	0.155	0.000	100.0#	0#	-3.70#
13 l2	1260-5	0.111	0.000	100.0#	0#	-3.90#
24 l6	1242-1	0.021	0.000	100.0#	0#	-1.82#
25 l6	1242-2	0.048	0.000	100.0#	0#	-1.99#
26 l6	1242-3	0.095	0.000	100.0#	0#	-2.19#
27 l6	1242-4	0.039	0.000	100.0#	0#	-2.25#
28 l6	1242-5	0.031	0.000	100.0#	0#	-2.64#
29 l9	1268-1	0.190	0.000	100.0#	0#	-3.89#
30 l9	1268-2	0.169	0.000	100.0#	0#	-3.92#
31 l9	1268-3	0.141	0.000	100.0#	0#	-4.06#
32 l9	1268-4	0.062	0.000	100.0#	0#	-4.21#
33 l9	1268-5	0.399	0.000	100.0#	0#	-4.40#
35 l7	1248-1	0.062	0.000	100.0#	0#	-2.19#
36 l7	1248-2	0.043	0.000	100.0#	0#	-2.34#
37 l7	1248-3	0.053	0.000	100.0#	0#	-2.46#
38 l7	1248-4	0.060	0.000	100.0#	0#	-2.64#
39 l7	1248-5	0.067	0.000	100.0#	0#	-2.66#
41 l5	1232-1	0.030	0.000	100.0#	0#	-1.82#
42 l5	1232-2	0.031	0.000	100.0#	0#	-1.99#
43 l5	1232-3	0.060	0.000	100.0#	0#	-2.19#
44 l5	1232-4	0.024	0.000	100.0#	0#	-2.25#
45 l5	1232-5	0.018	0.000	100.0#	0#	-2.64#
46 l8	1262-1	0.073	0.000	100.0#	0#	-3.17#
47 l8	1262-2	0.101	0.000	100.0#	0#	-3.41#
48 l8	1262-3	0.091	0.000	100.0#	0#	-3.57#
49 l8	1262-4	0.174	0.000	100.0#	0#	-3.70#
50 l8	1262-5	0.062	0.000	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample   : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,, lvi pp11761 (Sig #2)
Misc   : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,, lvi pp11761 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.182	1.247	239.8E6	306.7E6	25.000	25.000
14) i	2154_1br2nb	1.182	1.247	239.8E6	306.7E6	25.000	25.000
23) i	4268_1br2nb	1.182	1.247	239.8E6	306.7E6	25.000	25.000
34) i	1248_1br2nb	1.182	1.247	239.8E6	306.7E6	25.000	25.000
40) i	3262_1br2nb	1.182	1.247	239.8E6	306.7E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.462	1.615	216.6E6	257.9E6	15.567	12.834
	Spiked Amount 20.000	Range 30 - 150		Recovery =		77.83%	64.17%
3) s	Decachlorobi	4.011	4.513f	329.0E6	344.7E6	29.727	25.520
	Spiked Amount 20.000	Range 30 - 150		Recovery =		148.64%	127.60%
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	1.524	1.728	33527799	43912935	233.887	205.450
16) l3	1221-2	1.582	1.786	19654447	27964564	222.269	206.667M3

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,, lvi pp11761 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	1.599	1.813	81463741	100.0E6	230.356M3	203.886
Sum	1221-1			134.6E6	171.9E6	686.512	616.003
Average	1221-1					228.837	205.334
18) l4	1254-1	2.310	2.643f	125.8E6	174.9E6	249.912	229.140
19) l4	1254-2	2.422	2.728f	234.5E6	192.5E6	261.867	215.117
20) l4	1254-3	2.603	2.956f	253.6E6	299.4E6	261.158M1	224.876
21) l4	1254-4	2.732	3.066f	176.2E6	200.3E6	257.281	225.069
22) l4	1254-5	2.952	3.338f	226.4E6	260.8E6	239.301	210.923
Sum	1254-1			1016.5E6	1127.9E6	1269.518	1105.125
Average	1254-1					253.904	221.025
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,, lvi pp11761 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,, lvi pp11761 (Sig #2)
Misc : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

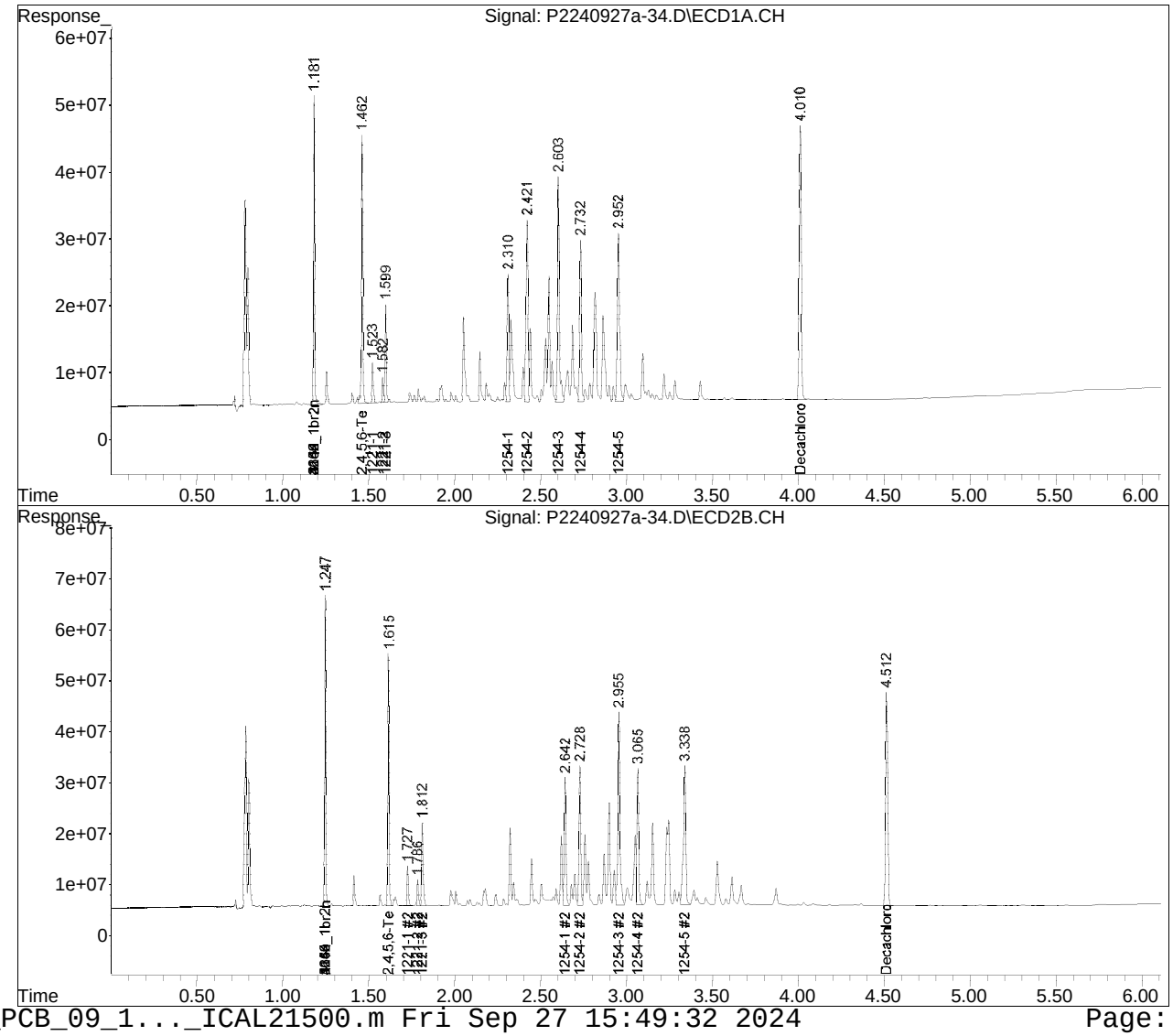
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 13:29
Operator : pest2:rmp
Sample : WG1977023-6,42,,cicv2154,42,, lvi pp11761 (Sig #1); cicv2154,42,,
Misc : wg1977023,,ICAL21500
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 13:42:46 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

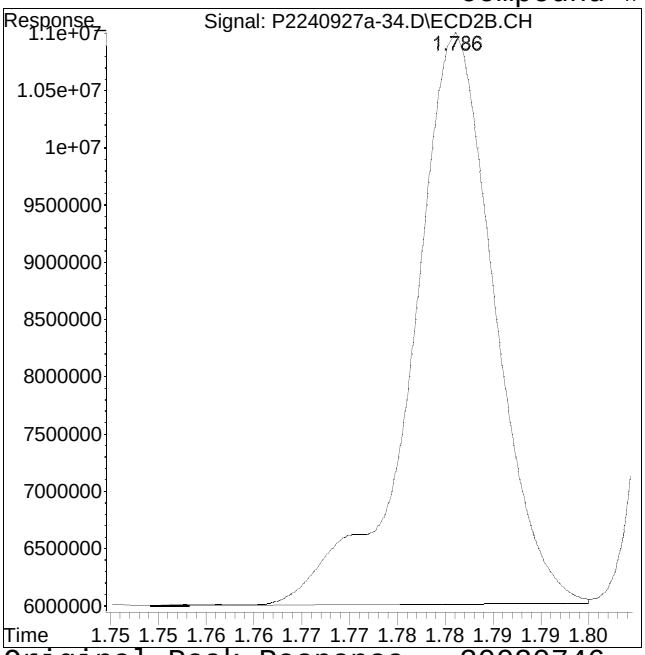
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

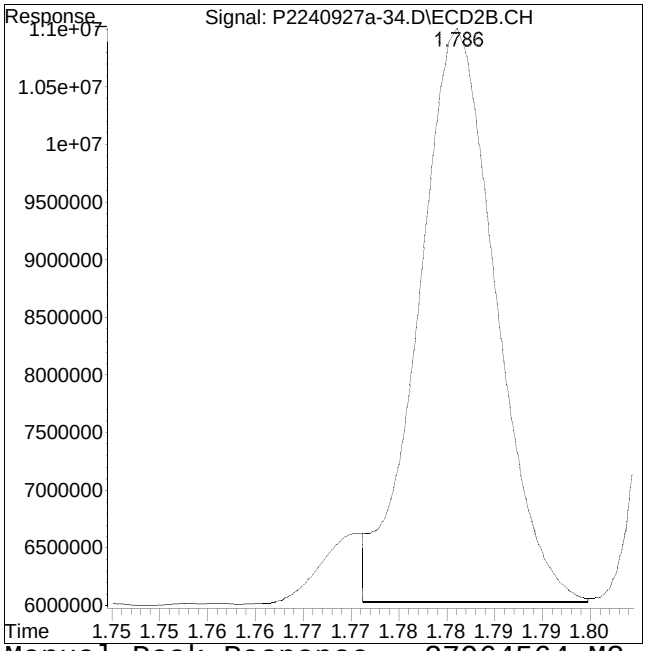


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-34.D Operator : pest2:rmp
Date Inj'd : 9/27/2024 13:29 Instrument : Pest 2
Sample : WG1977023-6,42,,cicv2154,4Quant Date : 9/27/2024 1:42 pm

Compound #67: 1221-2 #2



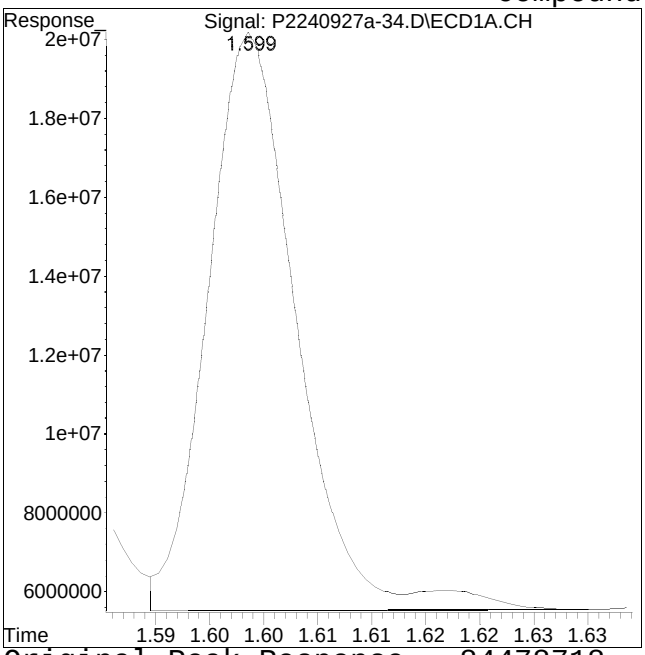


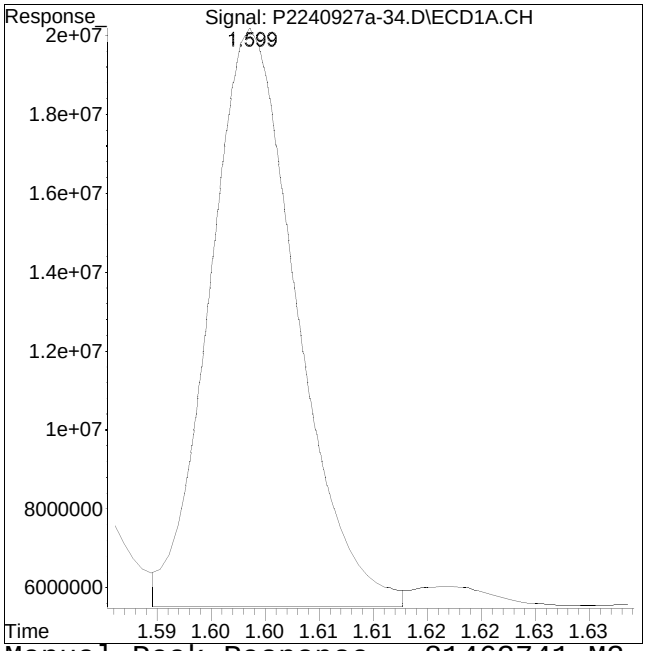
Original Peak Response = 30020746 Manual Peak Response = 27964564 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-34.D Operator : pest2:rmp
Date Inj'd : 9/27/2024 13:29 Instrument : Pest 2
Sample : WG1977023-6,42,,cicv2154,4Quant Date : 9/27/2024 1:42 pm

Compound #17: 1221-3



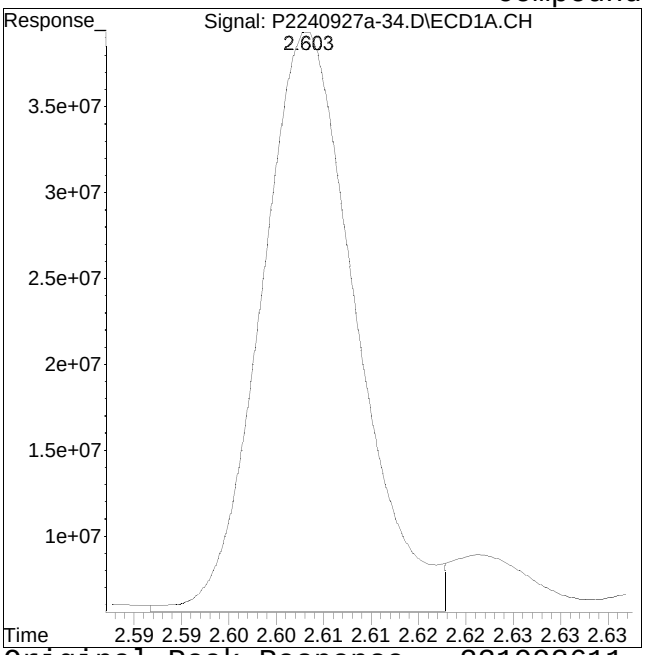


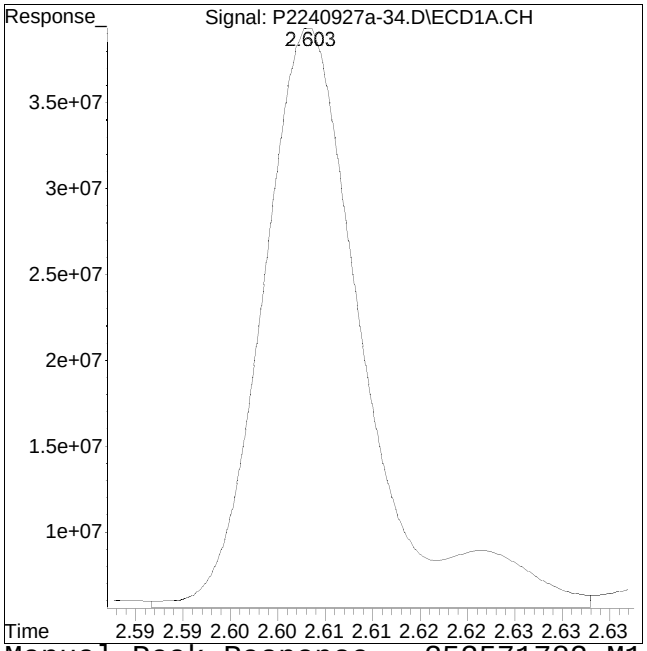
Original Peak Response = 84478718 Manual Peak Response = 81463741 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-34.D Operator : pest2:rmp
Date Inj'd : 9/27/2024 13:29 Instrument : Pest 2
Sample : WG1977023-6,42,,cicv2154,4Quant Date : 9/27/2024 1:42 pm

Compound #20: 1254-3





Original Peak Response = 231993611 Manual Peak Response = 253571782 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

RT Shift Summary

Identification Summary
Form 10
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Aroclor Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-44.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 15:17
Operator : pest2:rmp
Sample : WG1976835-1,42,, rr
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 44 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 15:40:00 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-31.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.184	1.249	241.7E6	295.2E6	25.000	25.000M4
	Standard Area 1 : #1 = 187110407				Recovery =	129.18%	
	Standard Area 1 : #2 = 283066218				Recovery =	104.28%	
14) i	2154_1br2nb	1.184	1.249	241.7E6	295.2E6	25.000	25.000M4
23) i	4268_1br2nb	1.184	1.249	241.7E6	295.2E6	25.000	25.000M4
34) i	1248_1br2nb	1.184	1.249	241.7E6	295.2E6	25.000	25.000M4
40) i	3262_1br2nb	1.184	1.249	241.7E6	295.2E6	25.000	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.464	1.617	211.5E6	253.4E6	15.080	13.101
	Spiked Amount 20.000	Range 30 - 150			Recovery =	75.40%	65.50%
3) s	Decachlorobi	4.011	4.515	166.7E6	178.7E6	14.945M4	13.743
	Spiked Amount 20.000	Range 30 - 150			Recovery =	74.72%	68.72%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-44.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 15:17
Operator : pest2:rmp
Sample : WG1976835-1,42,, rr
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 44 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 15:40:00 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-31.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
11) l2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	2.312	2.645f	8757947	11192730	17.259	15.235
19) l4 1254-2	2.423	2.730f	13732903	12721808	15.215M4	14.770M3
20) l4 1254-3	2.604	2.958f	10780245	16533629	11.014M1	12.902
21) l4 1254-4	2.733	3.068f	6764075	8929425	9.795	10.428
22) l4 1254-5	2.953	3.341f	25564057	14220927	26.800	11.952M4
Sum 1254-1			65599227	63598518	80.083	65.287
Average 1254-1					16.017	13.057
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-44.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 15:17
Operator : pest2:rmp
Sample : WG1976835-1,42,, rr
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 44 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 15:40:00 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-31.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

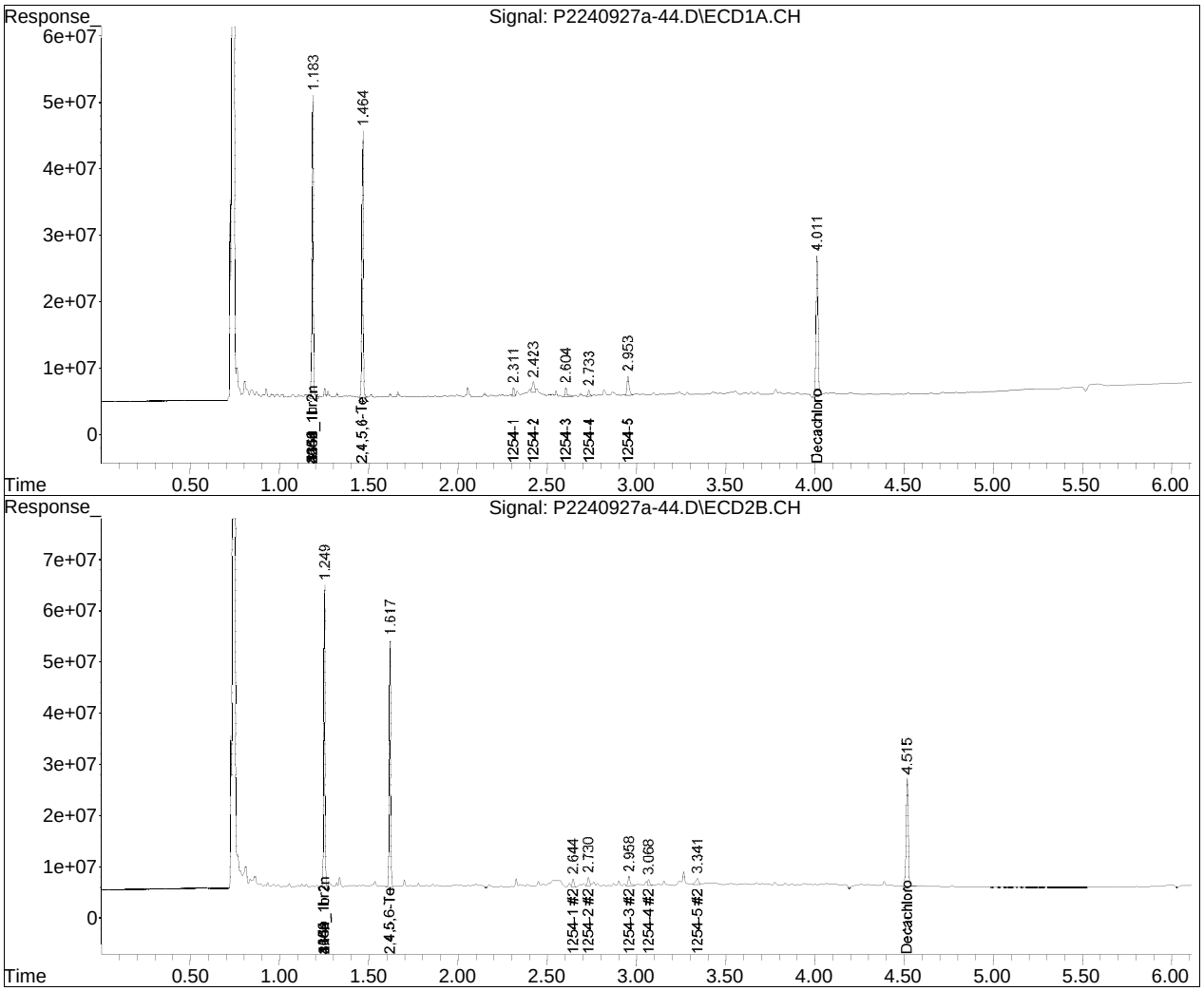
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240927a-31.D•

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-44.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 15:17
Operator : pest2:rmp
Sample : WG1976835-1,42,, rr
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 44 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 15:40:00 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

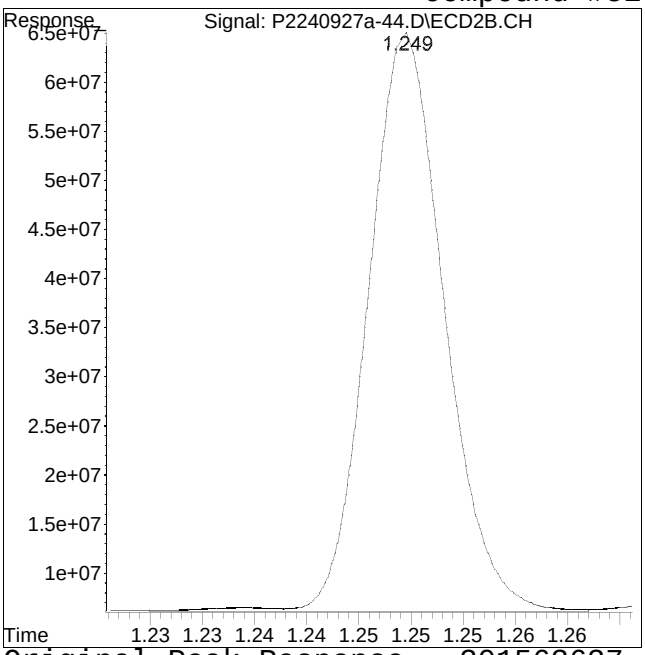
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

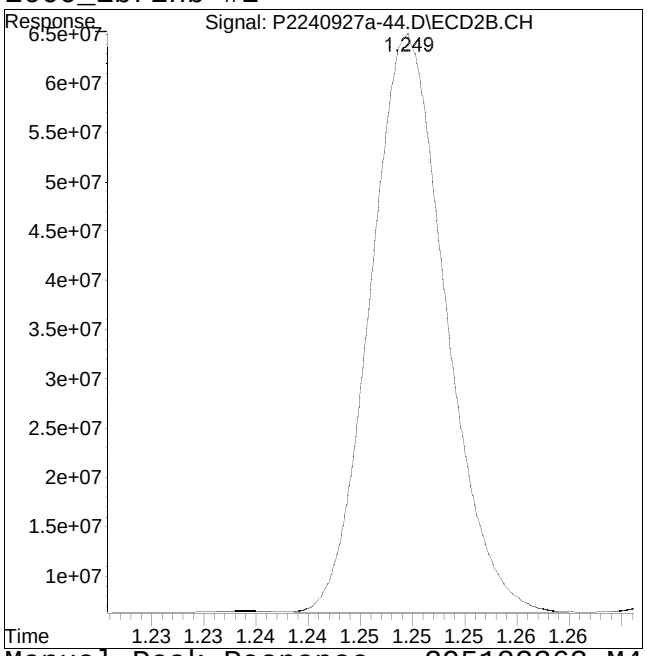


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-44.D Operator : pest2:rmp
Date Inj'd : 9/27/2024 15:17 Instrument : Pest 2
Sample : WG1976835-1,42,, rr Quant Date : 9/27/2024 3:40 pm

Compound #52: 1660_1br2nb #2



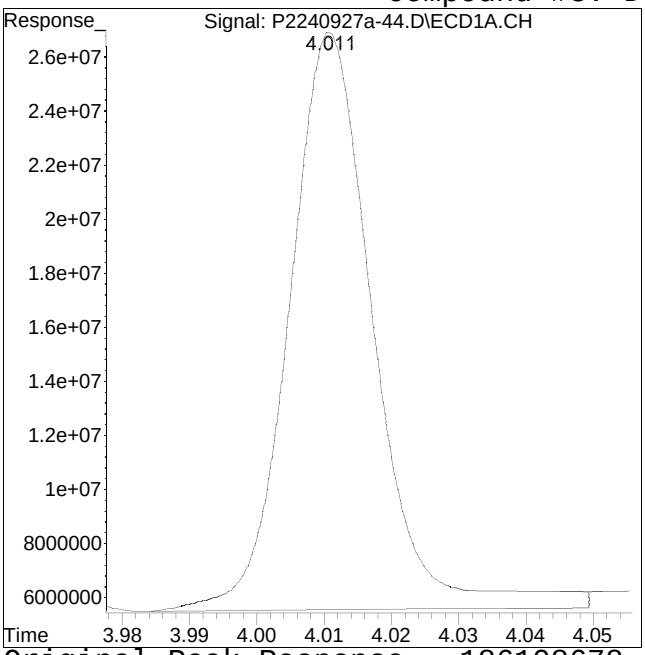


Original Peak Response = 301563637 Manual Peak Response = 295183363 M4
M4 = Poor automated baseline construction.

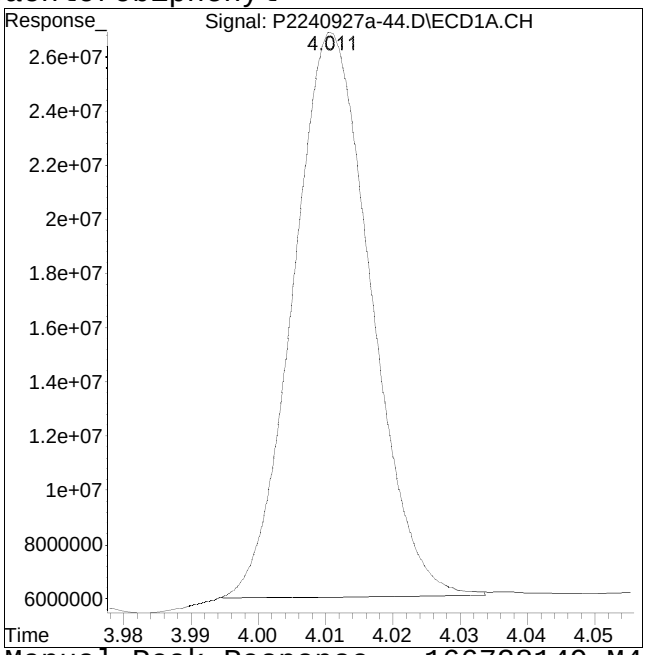
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-44.D Operator : pest2:rmp
Date Inj'd : 9/27/2024 15:17 Instrument : Pest 2
Sample : WG1976835-1,42,, rr Quant Date : 9/27/2024 3:40 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 186108678



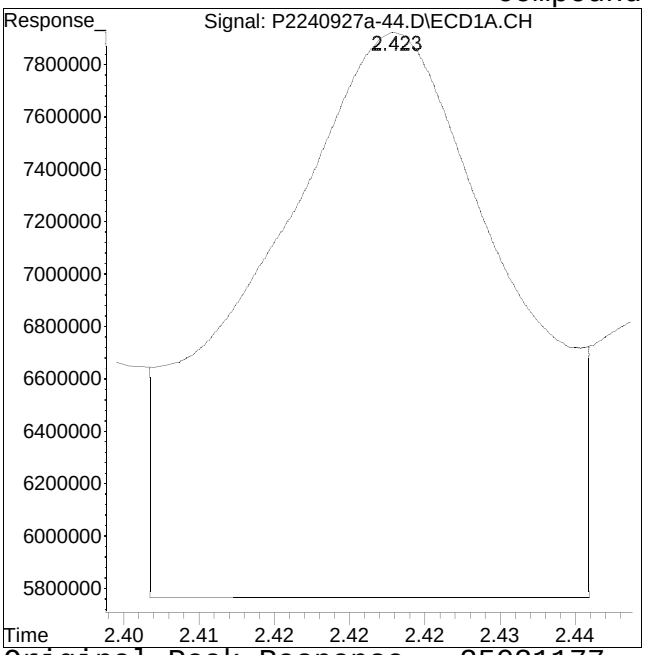
Manual Peak Response = 166728149 M4

M4 = Poor automated baseline construction.

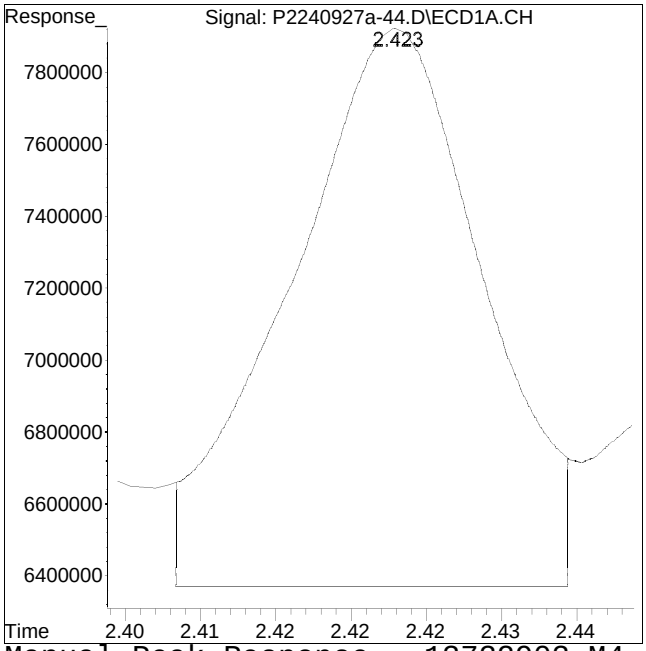
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-44.D Operator : pest2:rmp
Date Inj'd : 9/27/2024 15:17 Instrument : Pest 2
Sample : WG1976835-1,42,, rr Quant Date : 9/27/2024 3:40 pm

Compound #19: 1254-2



Original Peak Response = 25031177



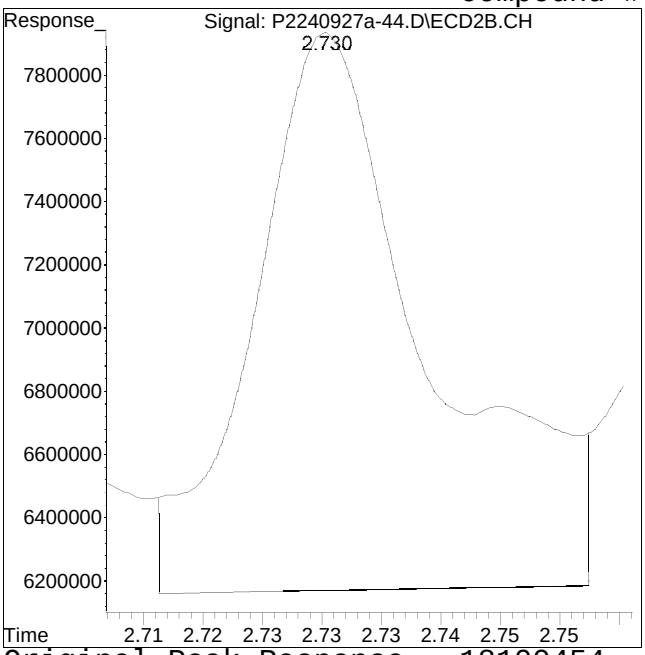
Manual Peak Response = 13732903 M4

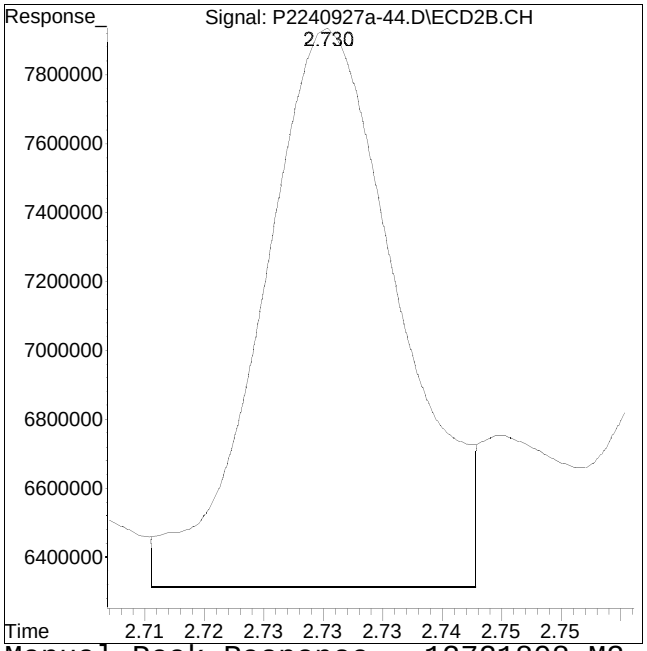
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-44.D Operator : pest2:rmp
Date Inj'd : 9/27/2024 15:17 Instrument : Pest 2
Sample : WG1976835-1,42,, rr Quant Date : 9/27/2024 3:40 pm

Compound #70: 1254-2 #2



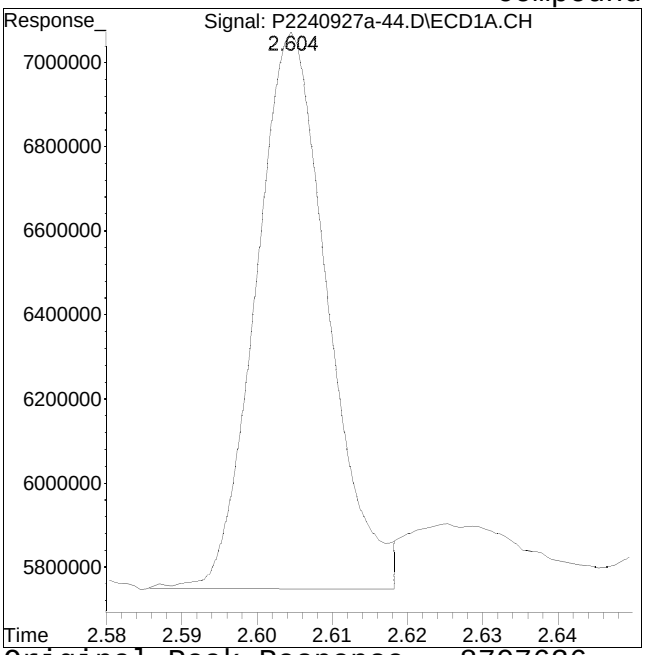


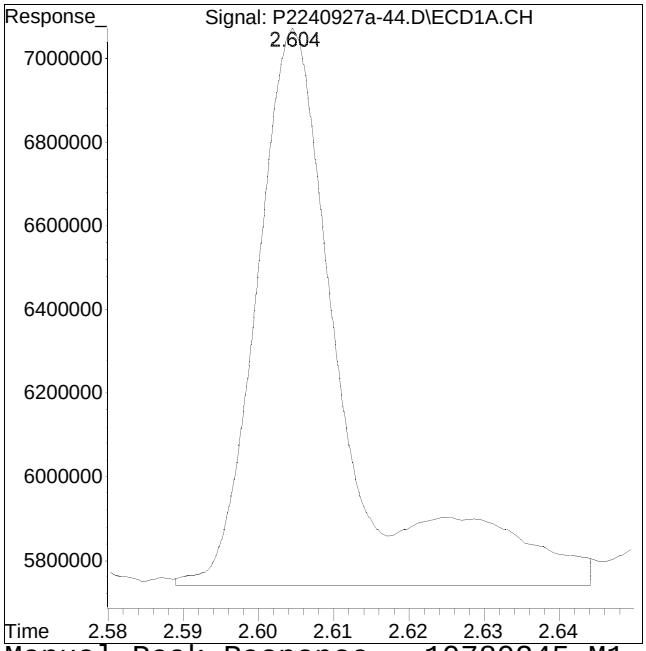
Original Peak Response = 18100454 Manual Peak Response = 12721808 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-44.D Operator : pest2:rmp
Date Inj'd : 9/27/2024 15:17 Instrument : Pest 2
Sample : WG1976835-1,42,, rr Quant Date : 9/27/2024 3:40 pm

Compound #20: 1254-3



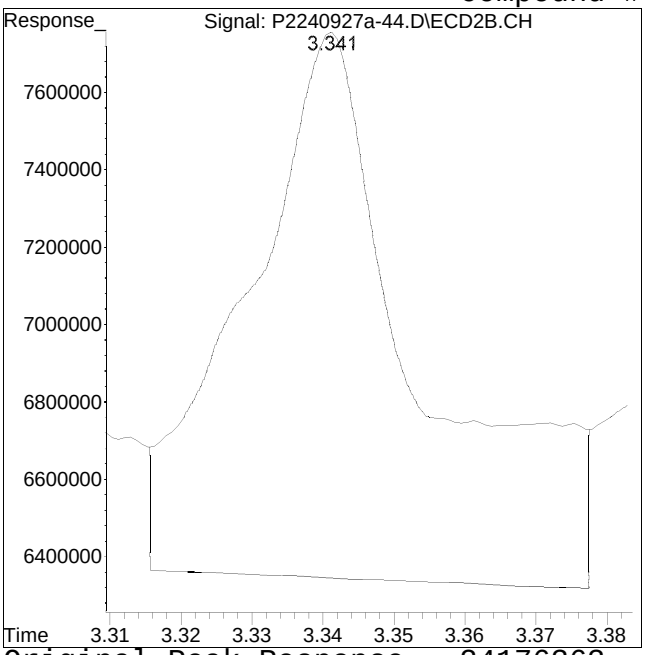


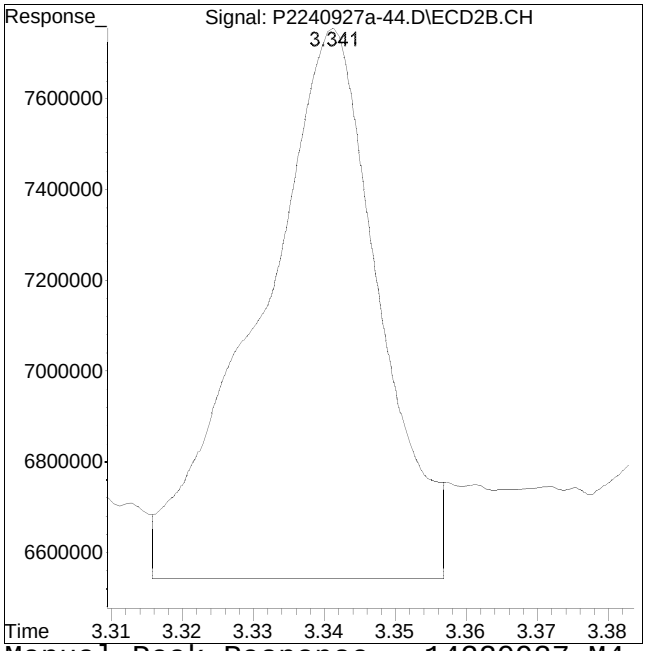
Original Peak Response = 8707636 Manual Peak Response = 10780245 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-44.D Operator : pest2:rmp
Date Inj'd : 9/27/2024 15:17 Instrument : Pest 2
Sample : WG1976835-1,42,, rr Quant Date : 9/27/2024 3:40 pm

Compound #73: 1254-5 #2





Original Peak Response = 24176363 Manual Peak Response = 14220927 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 7:23
Operator : pest2:mhg
Sample : WG1976835-2,42,,
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:10:22 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.181	1.246	238.3E6	291.4E6	25.000M3	25.000M3
Standard Area 1 : #1 = 197115243				Recovery = 120.87%		
Standard Area 1 : #2 = 286726193				Recovery = 101.64%		
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.461	1.614	220.2E6	256.3E6	15.926	13.420
Spiked Amount 20.000	Range 30 - 150		Recovery = 79.63%		67.10%	
3) s Decachlorobi	4.010	4.511f	186.9E6	192.5E6	16.992	14.998
Spiked Amount 20.000	Range 30 - 150		Recovery = 84.96%		74.99%	
Target Compounds						
4) l1 1016-1	1.598	1.812	47948085	58796928	186.010	167.097
5) l1 1016-2	1.737	1.980	110.0E6	133.7E6	196.027M3	175.602
6) l1 1016-3	1.924	2.178f	225.4E6	270.2E6	202.637	177.067
7) l1 1016-4	1.978	2.238f	95514174	107.9E6	203.794M1	175.279
8) l1 1016-5	2.147	2.446f	100.3E6	92524247	194.385	188.392
Sum 1016-1			579.2E6	663.2E6	982.853	883.437
Average 1016-1					196.571	176.687
9) l2 1260-1	2.685	3.049f	138.2E6	191.3E6	194.623	199.666
10) l2 1260-2	2.814	3.150f	216.1E6	202.3E6	200.260	178.774
11) l2 1260-3	3.128	3.538f	133.6E6	171.2E6	204.427	185.082
12) l2 1260-4	3.281	3.667f	301.1E6	338.4E6	209.903M3	186.818
13) l2 1260-5	3.428	3.866f	220.0E6	243.5E6	214.689M1	188.896
Sum 1260-1			1009.0E6	1146.6E6	1023.902	939.235
Average 1260-1					204.780	187.847
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 7:23
Operator : pest2:mhg
Sample : WG1976835-2,42,,
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:10:22 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

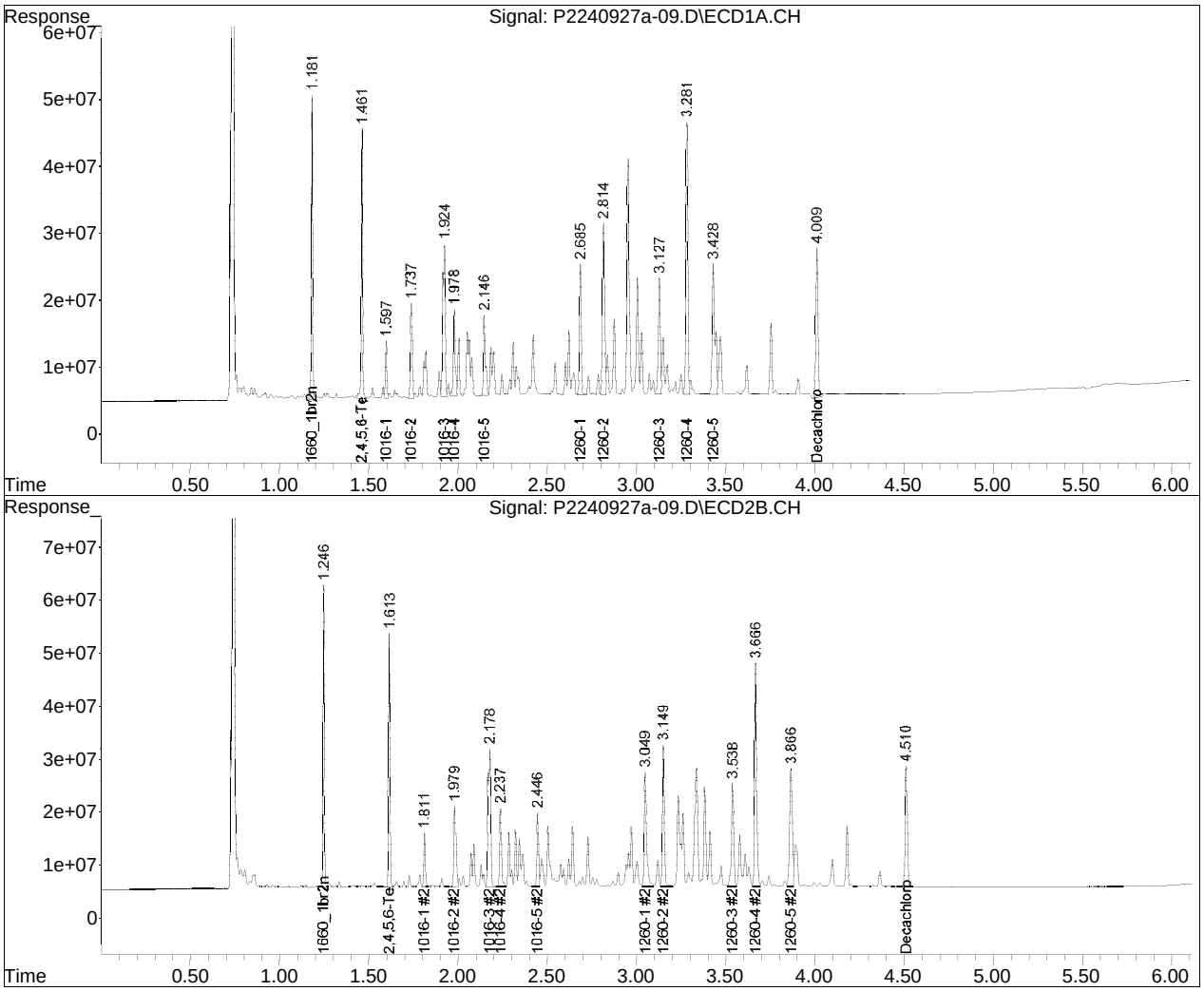
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240927A\P2240927a-04.D•

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 7:23
Operator : pest2:mhg
Sample : WG1976835-2,42,,
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:10:22 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

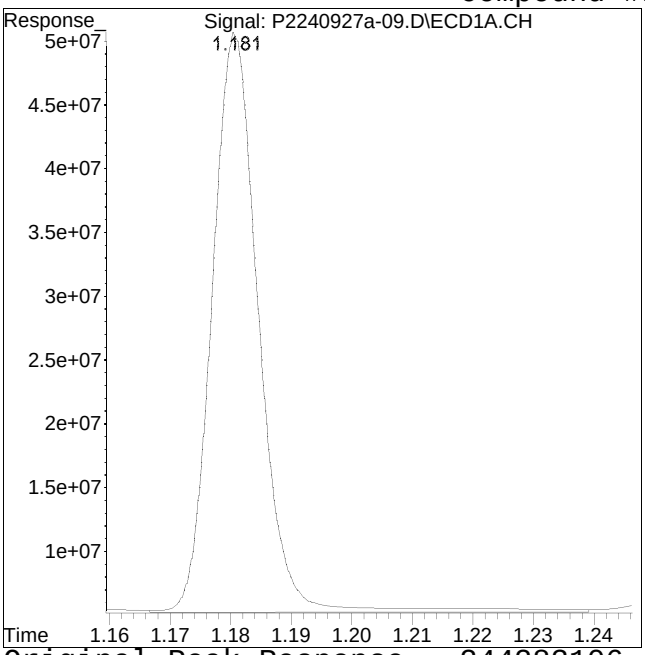
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

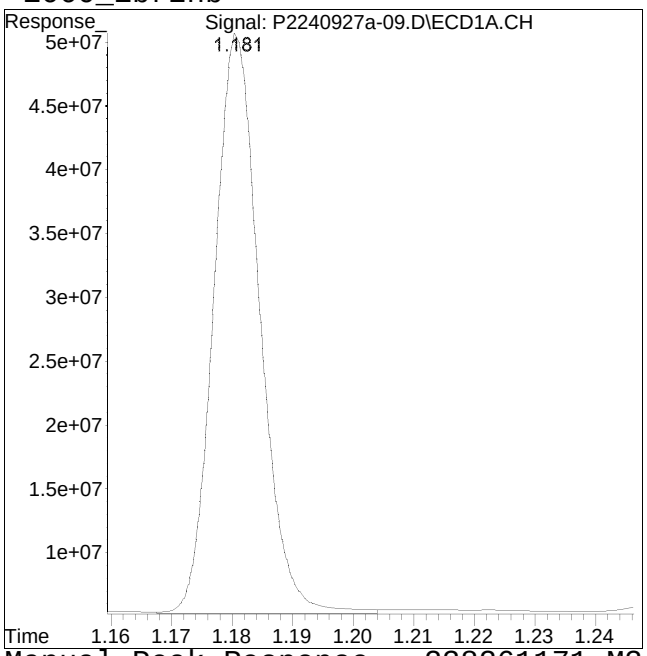


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-09.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 7:23 Instrument : Pest 2
Sample : WG1976835-2,42,, Quant Date : 9/27/2024 8:10 am

Compound #1: 1660_1br2nb



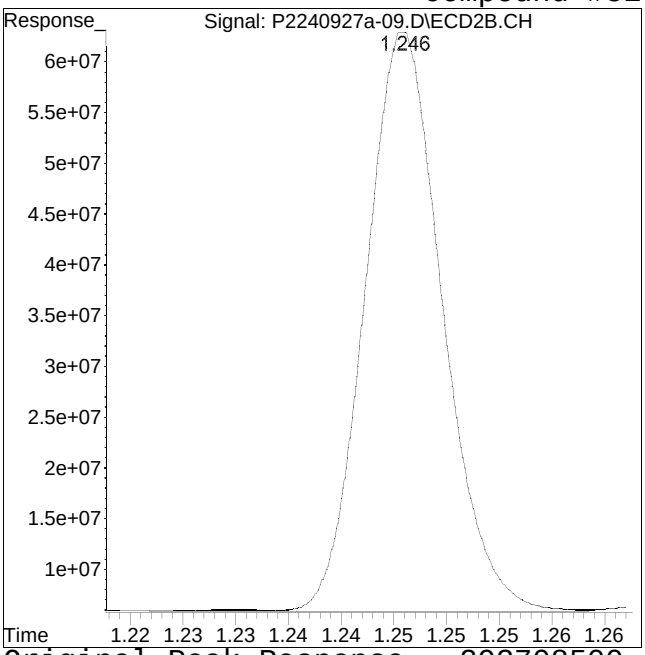


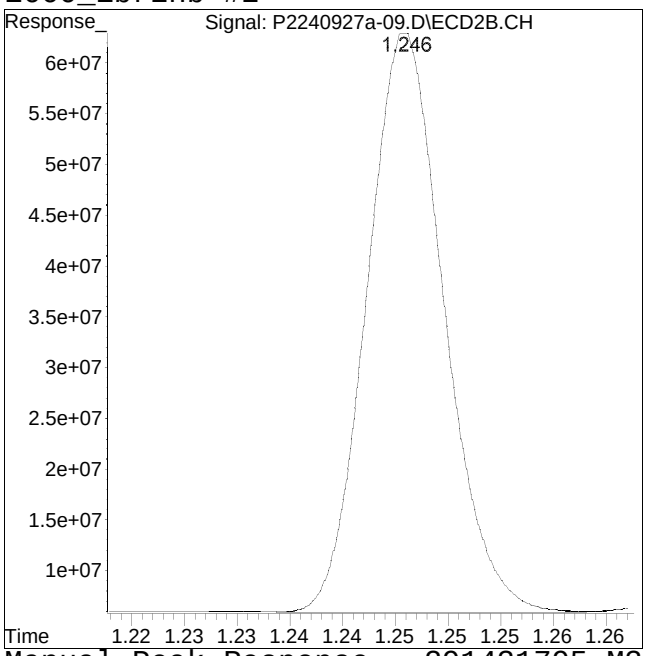
Original Peak Response = 244283106 Manual Peak Response = 238261171 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-09.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 7:23 Instrument : Pest 2
Sample : WG1976835-2,42,, Quant Date : 9/27/2024 8:10 am

Compound #52: 1660_1br2nb #2





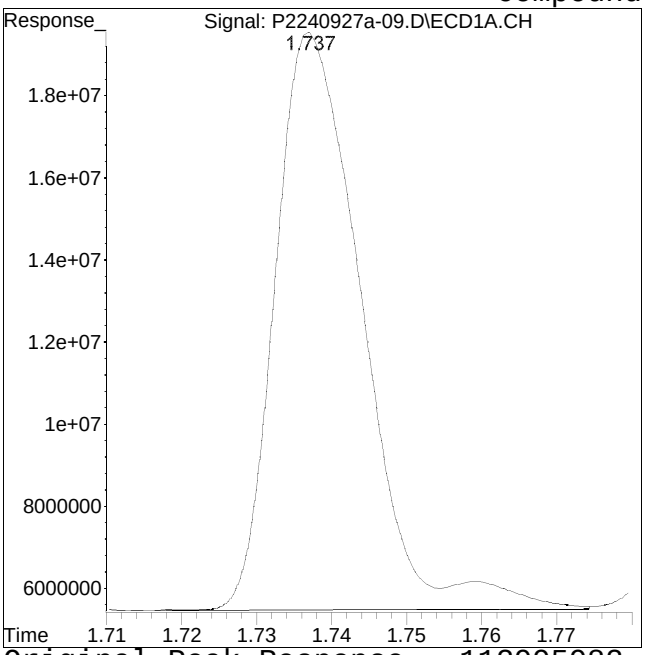
Original Peak Response = 293708500 Manual Peak Response = 291431795 M3

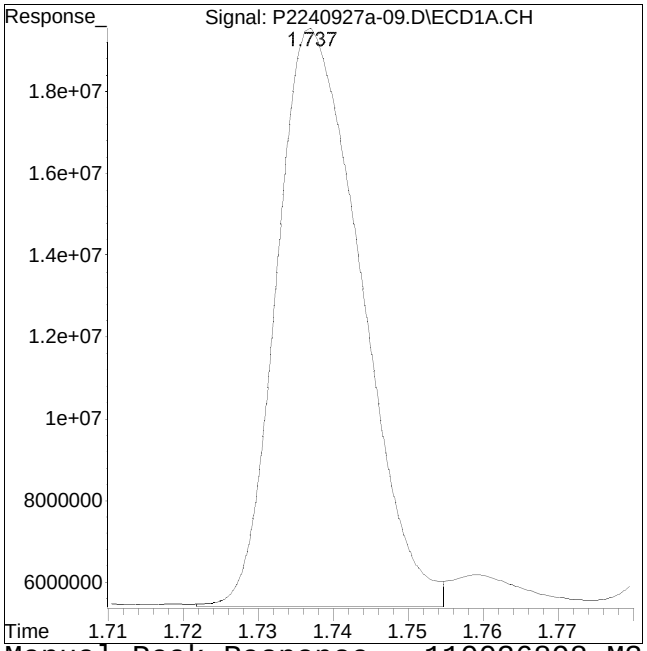
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-09.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 7:23 Instrument : Pest 2
Sample : WG1976835-2,42,, Quant Date : 9/27/2024 8:10 am

Compound #5: 1016-2



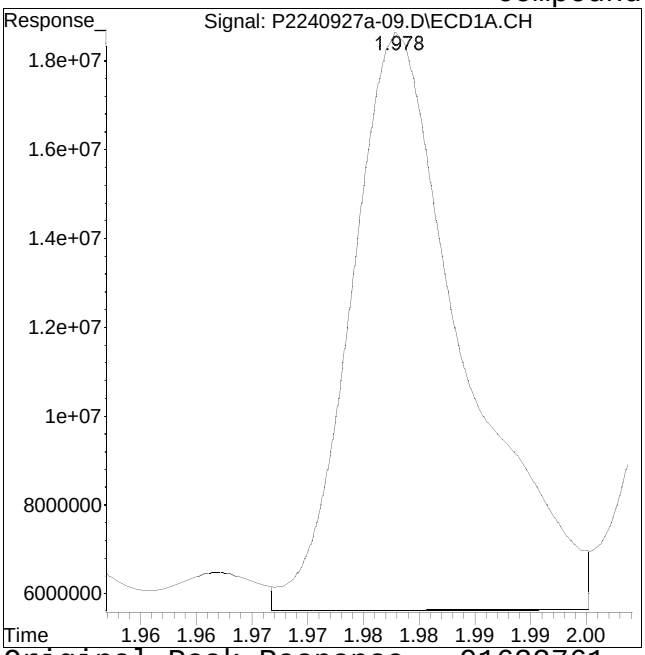


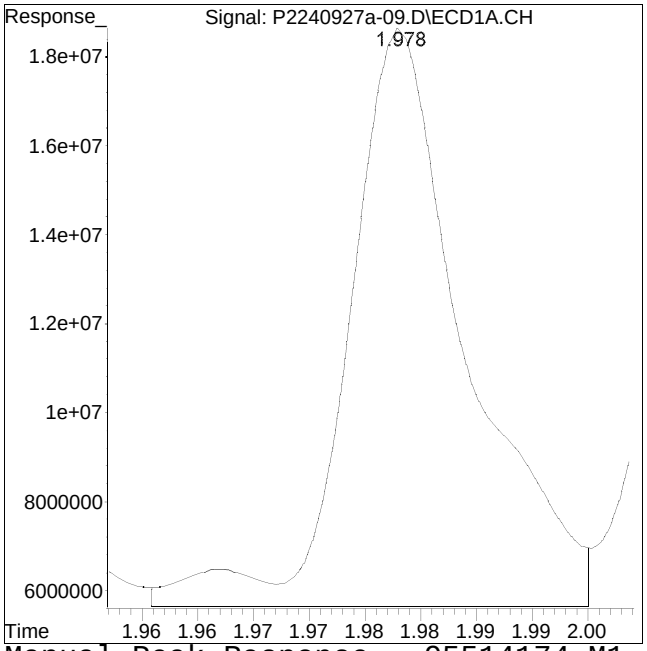
Original Peak Response = 112995982 Manual Peak Response = 110036898 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-09.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 7:23 Instrument : Pest 2
Sample : WG1976835-2,42,, Quant Date : 9/27/2024 8:10 am

Compound #7: 1016-4



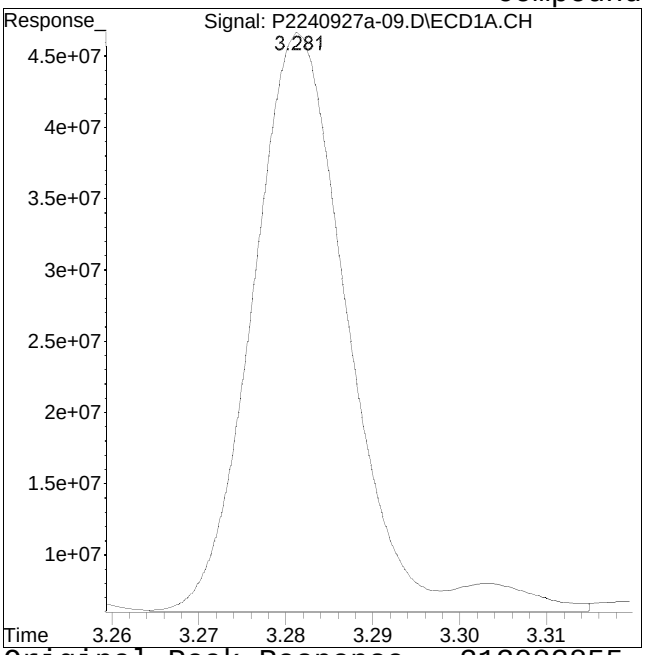


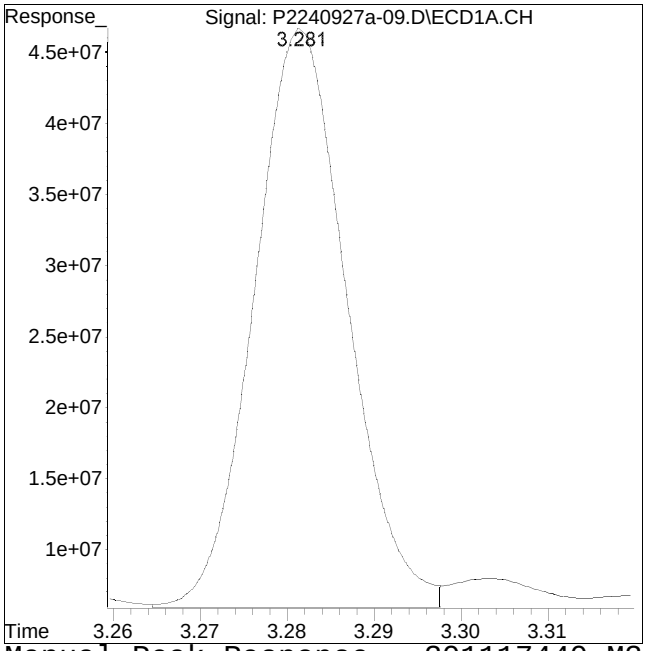
Original Peak Response = 91632761 Manual Peak Response = 95514174 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-09.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 7:23 Instrument : Pest 2
Sample : WG1976835-2,42,, Quant Date : 9/27/2024 8:10 am

Compound #12: 1260-4



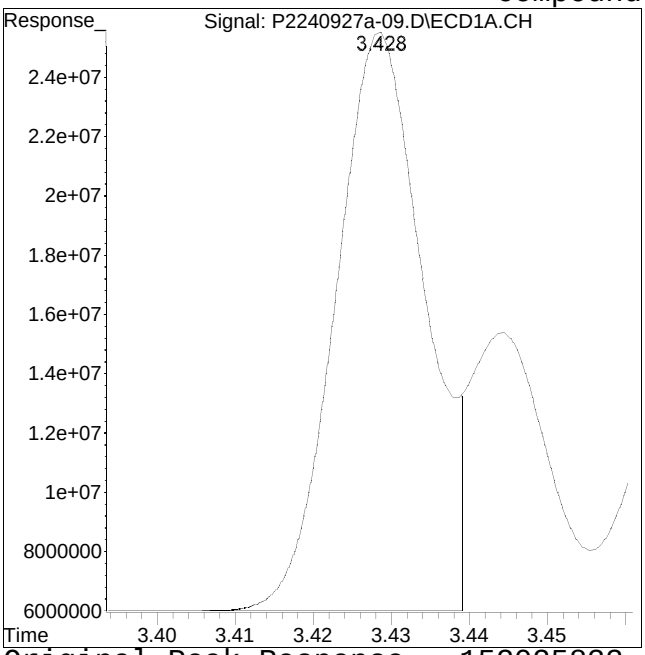


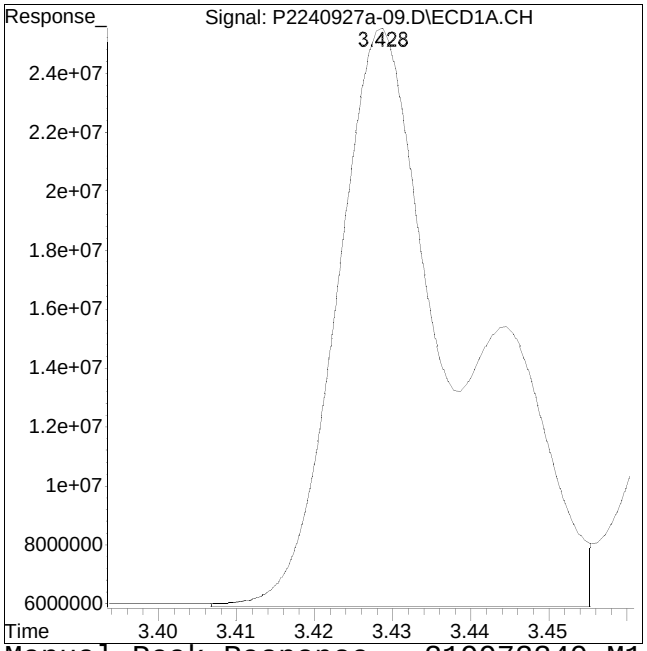
Original Peak Response = 313083855 Manual Peak Response = 301117440 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-09.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 7:23 Instrument : Pest 2
Sample : WG1976835-2,42,, Quant Date : 9/27/2024 8:10 am

Compound #13: 1260-5





Original Peak Response = 152025833 Manual Peak Response = 219973340 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 7:32
Operator : pest2:mhg
Sample : WG1976835-3,42,,
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:10:26 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.182	1.247	235.8E6	285.5E6	25.000	25.000
Standard Area 1 : #1 = 197115243				Recovery =	119.64%	
Standard Area 1 : #2 = 286726193				Recovery =	99.57%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.462	1.615	218.9E6	252.5E6	15.997	13.494
Spiked Amount 20.000	Range 30 - 150		Recovery =	79.98%	67.47%	
3) s Decachlorobi	4.009	4.512f	183.8E6	185.1E6	16.883	14.719
Spiked Amount 20.000	Range 30 - 150		Recovery =	84.41%	73.59%	
Target Compounds						
4) l1 1016-1	1.598	1.812	48855268	60239345	191.478	174.751
5) l1 1016-2	1.737	1.981	109.7E6	137.4E6	197.482	184.178
6) l1 1016-3	1.924	2.180	228.8E6	273.2E6	207.810	182.745
7) l1 1016-4	1.978	2.239f	100.8E6	105.4E6	217.327	174.822
8) l1 1016-5	2.146	2.447f	107.8E6	90999275	210.966	189.134
Sum 1016-1			596.0E6	667.3E6	1025.062	905.629
Average 1016-1					205.012	181.126
9) l2 1260-1	2.685	3.050f	138.0E6	183.9E6	196.311	195.993
10) l2 1260-2	2.814	3.151f	216.3E6	194.2E6	202.458	175.177
11) l2 1260-3	3.127	3.540f	132.8E6	166.3E6	205.325	183.497
12) l2 1260-4	3.281f	3.668f	295.4E6	325.7E6	208.057	183.545
13) l2 1260-5	3.428f	3.868f	218.8E6	254.3E6	215.756M1	201.382M2
Sum 1260-1			1001.3E6	1124.4E6	1027.906	939.594
Average 1260-1					205.581	187.919
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 7:32
Operator : pest2:mhg
Sample : WG1976835-3,42,,
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:10:26 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240927A\P2240927a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

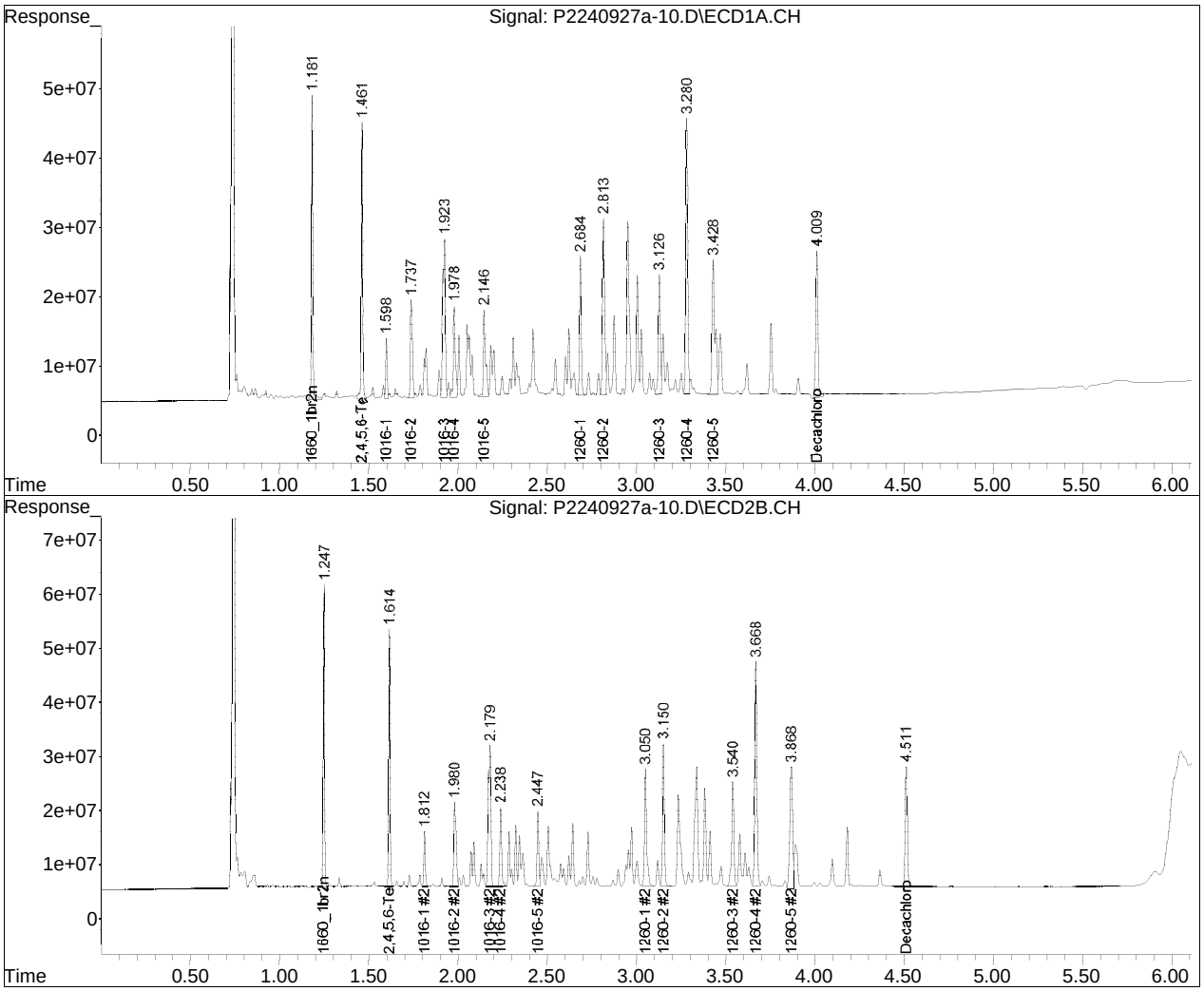
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240927A\P2240927a-04.D•

Data Path : I:\PCB\Pest2\2024\240927A\
Data File : P2240927a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 7:32
Operator : pest2:mhg
Sample : WG1976835-3,42,,
Misc : wg1977023,WG1976835,ICAL21500
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:10:26 2024
Quant Method : I:\PCB\Pest2\2024\240927A\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

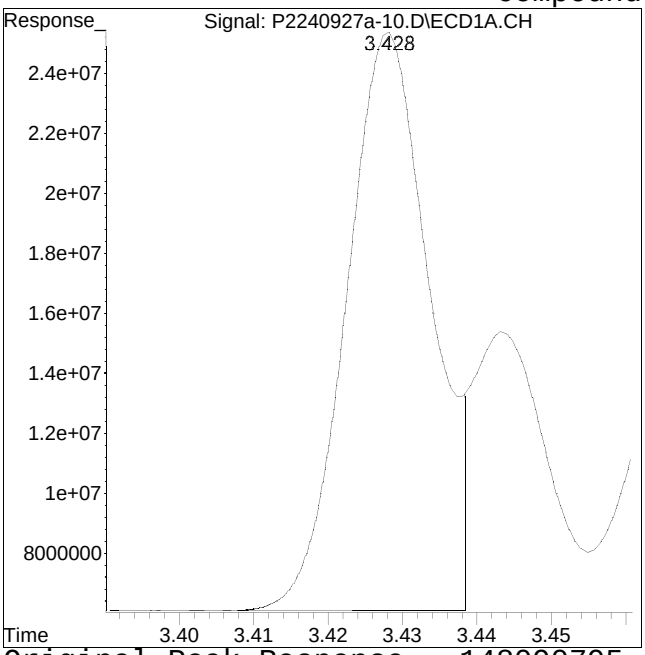
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

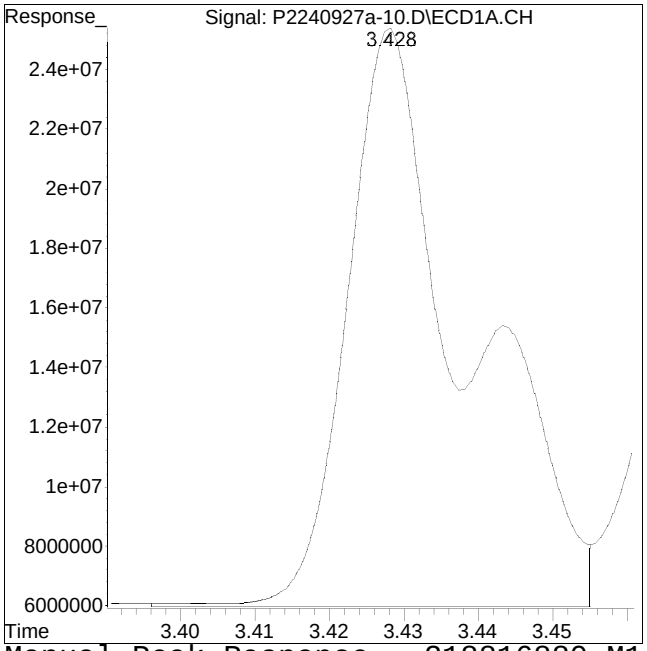


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-10.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 7:32 Instrument : Pest 2
Sample : WG1976835-3,42,, Quant Date : 9/27/2024 8:10 am

Compound #13: 1260-5



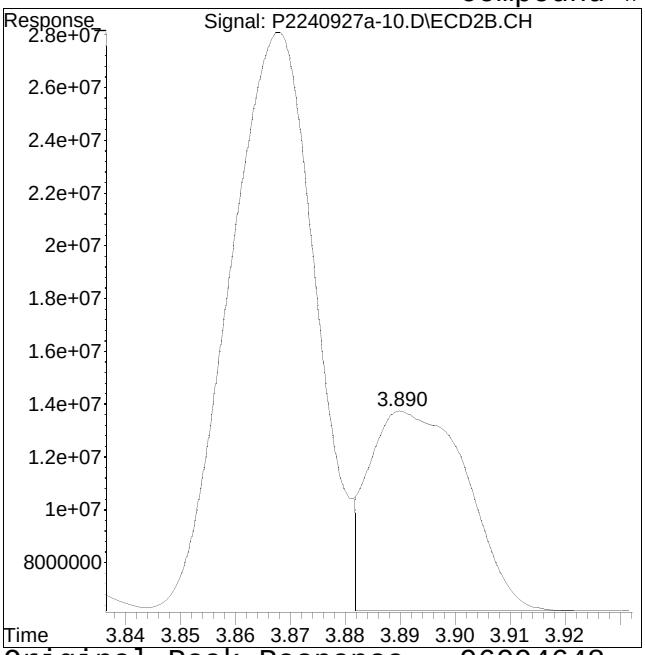


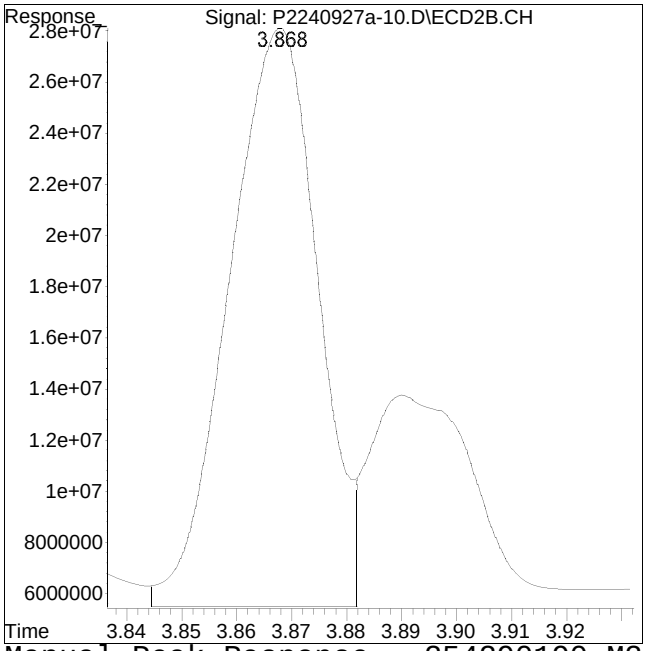
Original Peak Response = 148090795 Manual Peak Response = 218816880 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240927A\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240927a-10.D Operator : pest2:mhg
Date Inj'd : 9/27/2024 7:32 Instrument : Pest 2
Sample : WG1976835-3,42,, Quant Date : 9/27/2024 8:10 am

Compound #64: 1260-5 #2





Original Peak Response = 96094648 Manual Peak Response = 254290190 M2
M2 = Peak not found by automatic integration algorithm.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: PCB
Inst: Pest_2
Date: **09/16/24**
Run: I

Method: 8082
GC: PCB RVT

Seq: ICAL21500
IS: pp11660
WG1972777

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	P2240916i-01	blk				
1	P2240916i-02	blk				
1	P2240916i-03	blk				
1	P2240916i-04	blk				
1	P2240916i-05	blk				
2	P2240916i-06	il11660,42,,pp11790 4PPB				kab/sdc 9/17
3	P2240916i-07	il21660,42,,pp11790 10PPB				kab/sdc 9/17
4	P2240916i-08	il31660,42,,pp11790 20PPB				kab/sdc 9/17
5	P2240916i-09	il41660,42,,pp11790 30PPB				kab/sdc 9/17
6	P2240916i-10	il51660,42,,pp11790 40PPB				kab/sdc 9/17
7	P2240916i-11	il61660,42,,pp11790 50PPB				kab/sdc 9/17
8	P2240916i-12	il71660,42,,pp11790 100PPB				kab/sdc 9/17
9	P2240916i-13	il81660,42,,pp11790 250PPB				kab/sdc 9/17
10	P2240916i-14	il91660,42,,pp11790 500PPB				kab/sdc 9/17
11	P2240916i-15	il101660,42,,pp11790 1000PPB				kab/sdc 9/17
12	P2240916i-16	cicv1660,42,, ICV 250 pp11765				kab/sdc 9/17
1	P2240916i-17	instrument blank				kab/sdc 9/17
31	P2240916i-18	L8 RVT 2154 250 pp11766				kab/sdc 9/17
32	P2240916i-19	L8 RVT 1248 250 pp11767				kab/sdc 9/17
33	P2240916i-20	L8 RVT 3262 250 pp11768				kab/sdc 9/17
34	P2240916i-21	L8 RVT 4268 250 pp11769				kab/sdc 9/17
41	P2240916i-22	2154 ICV 250 pp11770				kab/sdc 9/17
42	P2240916i-23	1248 ICV 250 pp11771				kab/sdc 9/17
43	P2240916i-24	3262 ICV 250 pp11773				kab/sdc 9/17
44	P2240916i-25	4268 ICV 250 pp11772				kab/sdc 9/17

Dep.: PCB
Inst: Pest_2
Date: **09/27/24**
Run: a

Method: 8082
GC: PCB RVT

Seq: WG1977023
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	P2240927a-01	blk				
1	P2240927a-02	blk				
1	P2240927a-03	blk				
4	P2240927a-04	cicv1660,42,, lvi pp11776	20% 5:57 023-1 akm			mhg 9/27
5	P2240927a-05	cicv2154,42,, lvi pp11761	low			
6	P2240927a-06	cicv1248,42,, lvi pp11740	15%.			
7	P2240927a-07	cicv4268,42,, lvi pp11775	15%.			
8	P2240927a-08	WG1976835-1,42,,	hit of 54 rr for 54	mhg		
9	P2240927a-09	WG1976835-2,42,,				rmp 9/27
10	P2240927a-10	WG1976835-3,42,,				rmp 9/27
11	P2240927a-11	L2454092-01,42,, p				rmp 9/27
12	P2240927a-12	WG1976835-4,42,, ms				rmp 9/27
13	P2240927a-13	WG1976835-5,42,, msd				rmp 9/27
14	P2240927a-14	L2454092-02,42,,	hit of 54 rex			
15	P2240927a-15	L2454092-03,42,,				rmp 9/27
16	P2240927a-16	L2454092-05,42,,				rmp 9/27
17	P2240927a-17	L2453869-04,42,,	hit of 54 rr			
18	P2240927a-18	L2454087-01,42,,			akm	mhg 9/27
19	P2240927a-19	blk				
19	P2240927a-20	blk				
20	P2240927a-21	blk				
21	P2240927a-22	cicv1660,42,, lvi pp11776				
22	P2240927a-23	blk				
23	P2240927a-24	cicv2154,42,, lvi pp11761				
24	P2240927a-25	cicv1248,42,, lvi pp11740				
25	P2240927a-26	cicv4268,42,, lvi pp11775				
26	P2240927a-27	cicv4268,42,, lvi pp11775 rr				
27	P2240927a-28	blk				
27	P2240927a-29	blk				
27	P2240927a-30	blk				
30	P2240927a-31	cicv1660,42,, lvi pp11776	20% 12:25 rmp			rmp 9/27
31	P2240927a-32	blank				
31	P2240927a-33	blank				
33	P2240927a-34	cicv2154,42,, lvi pp11761	pass			rmp 9/27
34	P2240927a-35	cicv1248,42,, lvi pp11740	pass			
35	P2240927a-36	cicv4268,42,, lvi pp11775	fail			
37	P2240927a-37	WG1977038-1,42,,	hit of 54			rmp 9/27
38	P2240927a-38	WG1977038-2,42,,				rmp 9/27
39	P2240927a-39	WG1977038-3,42,,				rmp 9/27
40	P2240927a-40	L2454153-81,42,,,R3B	54, re-ex			
41	P2240927a-41	L2454153-82,42,,,R3B				rmp 9/27
42	P2240927a-42	L2454153-83,42,,,R3B	54, re-ex			
43	P2240927a-43	L2454153-84,42,,,R3B	54, re-ex			
44	P2240927a-44	WG1976835-1,42,, rr				rmp 9/27

Dep.: PCB
Inst: Pest_2
Date: **09/27/24**
Run: a

Method: 8082
GC: PCB RVT

Seq: WG1977023
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
45	P2240927a-45	L2455026-01,42,,,R1C				rmp 9/27
46	P2240927a-46	L2455026-02,42,,,R1C				rmp 9/27
47	P2240927a-47	L2453869-04,42,, rr				
48	P2240927a-48	L2453915-02,42,,				
49	P2240927a-49	L2454059-01,42,,				
50	P2240927a-50	L2454059-02,42,,				
51	P2240927a-51	L2454352-01,42,,				
52	P2240927a-52	L2454402-01,42,,				
53	P2240927a-53	L2454402-02,42,,				
54	P2240927a-54	L2454402-03,42,,				
55	P2240927a-55	L2454402-05,42,,			rmp	

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 30 2024, 11:27 am

Work Group: WG1976835 for Department: 2 Organic Preparation

Created: 26-SEP-24 Due: Operator: LJO

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2453915-02	WC-02	S	NYTCL-8082-LVI	WATER	DONE	U	0919	0926	S0	Amber-A.120
L2454059-01	MW-4S	S	NYTCL-8082-LVI	WATER	DONE	U	0919	0926	S0	Amber-A.120
L2454059-02	MW-4D2	S	NYTCL-8082-LVI	WATER	DONE	U	0919	0926	S0	Amber-A.120
L2454092-01	HA-MW-04	S	NYTCL-8082-LVI	WATER	DONE	U	0919	0926	S0	Amber-A.120
L2454092-03	DUP01-20240919	S	NYTCL-8082-LVI	WATER	DONE	U	0919	0926	S0	Amber-A.120
L2454092-05	FB-20240919	S	NYTCL-8082-LVI	WATER	DONE	U	0919	0926	S0	Amber-A.120
L2454352-01	SCDOH-DR	S	NYTCL-8082-LVI	WATER	DONE	U	0920	0927	S0	Amber-A.120
L2454402-01	HA-MW-06	S	NYTCL-8082-LVI	WATER	DONE	U	0920	0927	S0	Amber-A.120
L2454402-02	HA-MW-02	S	NYTCL-8082-LVI	WATER	DONE	U	0920	0927	S0	Amber-A.120
L2454402-03	HA-MW-01	S	NYTCL-8082-LVI	WATER	DONE	U	0920	0927	S0	Amber-A.120
L2454402-05	FB-20240920	S	NYTCL-8082-LVI	WATER	DONE	U	0920	0927	S0	Amber-A.120
L2455026-01	MW-19	S	NYTCL-8082-LVI	WATER	DONE	U	0924	0927	1C	Amber-A.120
L2455026-02	FB 2024-09-24	S	NYTCL-8082-LVI	WATER	DONE	U	0924	0927	1C	Amber-A.120
WG1976835-1	Laboratory Method Bl	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1976835-2	Laboratory Control S	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1976835-3	LCS Duplicate	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1976835-4	Matrix Spike	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1976835-5	Matrix Spike Duplica	S	NYTCL-8082-LVI	WATER	DONE	U				

Comments:

WG1976835-3	WG1976835-2
WG1976835-4	L2454092-01
WG1976835-5	L2454092-01

ORGANIC ELN REPORT

Workgroup: WG1976835

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ089
Surrogate Type: Pesticide/PCB **Lot #:** PP11735bd,02/06/2025,7c,5,1
Spike Type: PCB **Lot #:** PP11722ab,01/12/2025,6l,5,4
Spike Verify by: LJO
Lims Spikelot: PCB-LVI

Additional Reagents/Stds

Na2SO4	241169

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EJ061

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1: EPA 3665A
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** EJ061

Additional Reagents/Stds

H2SO4	2024071607

Cleanup 2

Cleanup Method 1: EPA 3660B
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** EJ061

Additional Reagents/Stds

Copper	2406cpg002

Cleanup 3

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Cleanup 4

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2453915-02 WATER	09/27/24 01:00	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1
L2454059-01 SAMP	09/27/24 01:00	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1
L2454059-02 SAMP	09/27/24 01:00	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1
L2454092-01 SAMP	09/26/24 16:41	Luke O'Donnell	140	>5, <9	.1		09/27/24 00:53	Kwasi Siriboe	5	H&K,N #3

Reported: 30-SEP-24 11:27 AM

ORGANIC ELN REPORT

Workgroup: WG1976835

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2454092-02 SAMP	09/26/24 16:41	Luke O'Donnell	140	>5, <9	.1		09/27/24 00:53	Kwasi Siriboe	5	H&K,N #3
L2454092-03 SAMP	09/26/24 16:41	Luke O'Donnell	140	>5, <9	.1		09/27/24 00:53	Kwasi Siriboe	5	H&K,N #3
L2454092-05 SAMP	09/26/24 16:41	Luke O'Donnell	140	>5, <9	.1		09/27/24 00:53	Kwasi Siriboe	5	H&K,N #3
L2454352-01 SAMP	09/27/24 01:00	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1
L2454402-01 SAMP	09/27/24 01:00	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1
L2454402-02 SAMP	09/27/24 01:00	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1
L2454402-03 SAMP	09/27/24 01:01	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1
L2454402-05 SAMP	09/27/24 01:01	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1

ORGANIC ELN REPORT

Workgroup: WG1976835

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2455026-01 SAMP	09/27/24 01:01	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1
L2455026-02 SAMP	09/27/24 01:01	John Awuah	140	>5, <9	.1		09/27/24 07:34	Rabbi Kyei-Baffour	5	C / A / #1
WG1976835-1 BLANK	09/26/24 16:41	Luke O'Donnell	140	>5, <9	.1		09/27/24 00:53	Kwasi Siriboe	5	H&K,N #3
WG1976835-2 LCS	09/26/24 16:41	Luke O'Donnell	140	>5, <9	.1	.1	09/27/24 00:53	Kwasi Siriboe	5	H&K,N #3
WG1976835-3 LCSD	09/26/24 16:41	Luke O'Donnell	140	>5, <9	.1	.1	09/27/24 00:53	Kwasi Siriboe	5	H&K,N #3
WG1976835-4 MS	09/26/24 16:41	Luke O'Donnell	140	>5, <9	.1	.1	09/27/24 00:53	Kwasi Siriboe	5	H&K,N #3
WG1976835-5 MSD	09/26/24 16:41	Luke O'Donnell	140	>5, <9	.1	.1	09/27/24 00:53	Kwasi Siriboe	5	H&K,N #3

ORGANIC ELN REPORT

Workgroup: WG1976835

Reported: 30-SEP-24 11:27 AM

ORGANIC ELN REPORT

Workgroup: WG1976835

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
L2453915-02 WATER	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong
L2454059-01 SAMP	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong
L2454059-02 SAMP	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong
L2454092-01 SAMP	09/27/24 01:22	Shaylee Amidon	5	1	09/27/24 03:36	Anita Ofori
L2454092-02 SAMP	09/27/24 01:22	Shaylee Amidon	5	1	09/27/24 03:36	Anita Ofori
L2454092-03 SAMP	09/27/24 01:22	Shaylee Amidon	5	1	09/27/24 03:36	Anita Ofori
L2454092-05 SAMP	09/27/24 01:22	Shaylee Amidon	5	1	09/27/24 03:36	Anita Ofori
L2454352-01 SAMP	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong
L2454402-01 SAMP	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong
L2454402-02 SAMP	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong
L2454402-03 SAMP	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong

ORGANIC ELN REPORT

Workgroup: WG1976835

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
L2454402-05 SAMP	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong
L2455026-01 SAMP	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong
L2455026-02 SAMP	09/27/24 08:16	Rebecca Corbin	5	1	09/27/24 09:31	Salomey Acheampong
WG1976835-1 BLANK	09/27/24 01:22	Shaylee Amidon	5	1	09/27/24 03:36	Anita Ofori
WG1976835-2 LCS	09/27/24 01:22	Shaylee Amidon	5	1	09/27/24 03:36	Anita Ofori
WG1976835-3 LCSD	09/27/24 01:22	Shaylee Amidon	5	1	09/27/24 03:36	Anita Ofori
WG1976835-4 MS	09/27/24 01:22	Shaylee Amidon	5	1	09/27/24 03:36	Anita Ofori
WG1976835-5 MSD	09/27/24 01:22	Shaylee Amidon	5	1	09/27/24 03:36	Anita Ofori

GC Extractable Analysis
Pesticides

Pesticide QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

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

Lab Number: L2454352
Project Number: 2232.0006Y005
Matrix: Water

GC Column 1: CLPPesticides
GC Column 2: CLPPesticidesII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
SCDOH-DR (L2454352-01)	87	79	78	76			0
WG1977043-1BLANK	61	55	58	55			0
WG1977043-2LCS	61	55	61	56			0
WG1977043-3LCSD	58	53	57	52			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

FORM II NYTCL-8081

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1977043-2 **Analysis Date** : 09/27/24 12:08	**File ID**	: 11240927a-15
LCSD Sample ID	: WG1977043-3 **Analysis Date** : 09/27/24 12:20	**File ID**	: 11240927a-16

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	0.357	0.208	58	0.357	0.206	58	1	30-150	20
Lindane	0.357	0.222	62	0.357	0.215	60	3	30-150	20
Alpha-BHC	0.357	0.235	66	0.357	0.223	62	5	30-150	20
Beta-BHC	0.357	0.218	61	0.357	0.211	59	3	30-150	20
Heptachlor	0.357	0.235	66	0.357	0.228	64	3	30-150	20
Aldrin	0.357	0.222	62	0.357	0.216	61	3	30-150	20
Heptachlor epoxide	0.357	0.225	63	0.357	0.220	62	2	30-150	20
Endrin	0.357	0.232	65	0.357	0.230	64	1	30-150	20
Endrin aldehyde	0.357	0.195	55	0.357	0.194	54	1	30-150	20
Endrin ketone	0.357	0.242	68	0.357	0.239	67	1	30-150	20
Dieldrin	0.357	0.250	70	0.357	0.246	69	2	30-150	20
4,4'-DDE	0.357	0.221	62	0.357	0.218	61	1	30-150	20
4,4'-DDD	0.357	0.245	69	0.357	0.241	68	2	30-150	20
4,4'-DDT	0.357	0.237	66	0.357	0.233	65	2	30-150	20
Endosulfan I	0.357	0.226	63	0.357	0.221	62	2	30-150	20
Endosulfan II	0.357	0.236	66	0.357	0.234	66	1	30-150	20
Endosulfan sulfate	0.357	0.240	67	0.357	0.239	67	0	30-150	20
Methoxychlor	0.357	0.251	70	0.357	0.246	69	2	30-150	20
cis-Chlordane	0.357	0.211	59	0.357	0.207	58	2	30-150	20
trans-Chlordane	0.357	0.255	71	0.357	0.248	69	3	30-150	20

Method Blank Summary
Form 4
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1977043-1	**Lab File ID**	: 11240927a-14
Matrix	: WATER	**Extraction Date**	: 09/27/24
Analysis Date (1)	: 09/27/24 11:56	**Analysis Date (2)**	: 09/27/24 11:56
Instrument ID (1)	: PEST11	**Instrument ID (2)**	: PEST11

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1977043-2LCS	WG1977043-2	09/27/24 12:08	09/27/24 12:08
WG1977043-3LCSD	WG1977043-3	09/27/24 12:20	09/27/24 12:20
SCDOH-DR	L2454352-01	09/28/24 13:34	09/28/24 13:34

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Initial Calib. Date(s)**	: 08/01/24 08/01/24

Client ID	Lab ID	Date/Time Analyzed
R1860455-1 PEM	R1860455-1	08/01/24 18:25
Pesticides L1 (0.5ug/L)	R1860455-2	08/01/24 18:37
Pesticides L2 (1.0ug/L)	R1860455-3	08/01/24 18:49
Pesticides L3 (2.0ug/L)	R1860455-4	08/01/24 19:01
Pesticides L4 (3.0ug/L)	R1860455-5	08/01/24 19:13
Pesticides L5 (4.0ug/L)	R1860455-6	08/01/24 19:25
Pesticides L7 (10.0ug/L)	R1860455-7	08/01/24 19:37
Pesticides L8 (50.0ug/L)	R1860455-8	08/01/24 19:49
Pesticides L9 (100ug/L)	R1860455-9	08/01/24 20:01
Pesticides L10 (200ug/L)	R1860455-10	08/01/24 20:12
Pesticides L11 (400ug/L)	R1860455-11	08/01/24 20:25
R1860455-12 ICV	R1860455-12	08/01/24 20:36
Chlordane L3 (10ug/L)	R1860455-13	08/01/24 20:48
Chlordane L4 (20ug/L)	R1860455-14	08/01/24 21:00
Chlordane L5 (100ug/L)	R1860455-15	08/01/24 21:12
Chlordane L7 (500ug/L)	R1860455-16	08/01/24 21:24
Chlordane L8 (1000ug/L)	R1860455-18	08/01/24 21:36
Chlordane L9 (2000ug/L)	R1860455-17	08/01/24 21:48
Chlordane L10 (5000ug/L)	R1860455-19	08/01/24 22:00
R1860455-20 ICV	R1860455-20	08/01/24 22:12
Toxaphene L3 (20.0ug/L)	R1860455-21	08/01/24 22:24
Toxaphene L4 (100ug/L)	R1860455-22	08/01/24 22:36
Toxaphene L7 (1000ug/L)	R1860455-23	08/01/24 22:47
Toxaphene L8 (2000ug/L)	R1860455-24	08/01/24 22:59
Toxaphene L9 (5000ug/L)	R1860455-25	08/01/24 23:11
R1860455-26 ICV	R1860455-26	08/01/24 23:23
R1881161-1 PEM	R1881161-1	09/27/24 09:15
WG1977176-1 CCAL	WG1977176-1	09/27/24 09:26
WG1977176-2 CCAL	WG1977176-2	09/27/24 09:38
WG1977176-3 CCAL	WG1977176-3	09/27/24 09:50
WG1977043-1 BLANK	WG1977043-1	09/27/24 11:56
WG1977043-2 LCS	WG1977043-2	09/27/24 12:08
WG1977043-3 LCSD	WG1977043-3	09/27/24 12:20
R1881445-1 PEM	R1881445-1	09/28/24 10:19
WG1977568-1 CCAL	WG1977568-1	09/28/24 10:31
WG1977568-2 CCAL	WG1977568-2	09/28/24 10:43
WG1977568-3 CCAL	WG1977568-3	09/28/24 10:55
SCDOH-DR	L2454352-01	09/28/24 13:34

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
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Pesticides - EPA 8081B (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	1.6008	0.31349	ug/kg	30-150	30	30-150	50	50			
Lindane	58-89-9	0.667	0.298149	ug/kg	30-150	30	30-150	50	50			
Alpha-BHC	319-84-6	0.667	0.189428	ug/kg	30-150	30	30-150	50	50			
Beta-BHC	319-85-7	1.6008	0.60697	ug/kg	30-150	30	30-150	50	50			
Heptachlor	76-44-8	0.8004	0.358846	ug/kg	30-150	30	30-150	50	50			
Aldrin	309-00-2	1.6008	0.563615	ug/kg	30-150	30	30-150	50	50			
Heptachlor epoxide	1024-57-3	3.0015	0.90045	ug/kg	30-150	30	30-150	50	50			
Endrin	72-20-8	0.667	0.27347	ug/kg	30-150	30	30-150	50	50			
Endrin aldehyde	7421-93-4	2.001	0.70035	ug/kg	30-150	30	30-150	50	50			
Endrin ketone	53494-70-5	1.6008	0.412206	ug/kg	30-150	30	30-150	50	50			
Dieldrin	60-57-1	1.0005	0.50025	ug/kg	30-150	30	30-150	50	50			
4,4'-DDE	72-55-9	1.6008	0.370185	ug/kg	30-150	30	30-150	50	50			
4,4'-DDD	72-54-8	1.6008	0.570952	ug/kg	30-150	30	30-150	50	50			
4,4'-DDT	50-29-3	3.0015	1.28731	ug/kg	30-150	30	30-150	50	50			
Endosulfan I	959-98-8	1.6008	0.378189	ug/kg	30-150	30	30-150	50	50			
Endosulfan II	33213-65-9	1.6008	0.534934	ug/kg	30-150	30	30-150	50	50			
Endosulfan sulfate	1031-07-8	0.667	0.317492	ug/kg	30-150	30	30-150	50	50			
Methoxychlor	72-43-5	3.0015	0.9338	ug/kg	30-150	30	30-150	50	50			
Toxaphene	8001-35-2	30.015	8.4042	ug/kg	30-150	30	30-150	50	50			
Chlordane	57-74-9	13.34	5.30265	ug/kg	30-150	30	30-150	50	50			
cis-Chlordane	5103-71-9	2.001	0.557612	ug/kg	30-150	30	30-150	50	50			
trans-Chlordane	5103-74-2	2.001	0.528264	ug/kg	30-150	30	30-150	50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
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Pesticides - EPA 8081B (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 120ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	0.02	0.00467	ug/l	30-150	20	30-150	30	30			
Lindane	58-89-9	0.02	0.00434	ug/l	30-150	20	30-150	30	30			
Alpha-BHC	319-84-6	0.02	0.00439	ug/l	30-150	20	30-150	30	30			
Beta-BHC	319-85-7	0.02	0.0056	ug/l	30-150	20	30-150	30	30			
Heptachlor	76-44-8	0.02	0.0031	ug/l	30-150	20	30-150	30	30			
Aldrin	309-00-2	0.02	0.00216	ug/l	30-150	20	30-150	30	30			
Heptachlor epoxide	1024-57-3	0.02	0.00415	ug/l	30-150	20	30-150	30	30			
Endrin	72-20-8	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
Endrin aldehyde	7421-93-4	0.04	0.0081	ug/l	30-150	20	30-150	30	30			
Endrin ketone	53494-70-5	0.04	0.00477	ug/l	30-150	20	30-150	30	30			
Dieldrin	60-57-1	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
4,4'-DDE	72-55-9	0.04	0.00381	ug/l	30-150	20	30-150	30	30			
4,4'-DDD	72-54-8	0.04	0.00464	ug/l	30-150	20	30-150	30	30			
4,4'-DDT	50-29-3	0.04	0.00432	ug/l	30-150	20	30-150	30	30			
Endosulfan I	959-98-8	0.02	0.00345	ug/l	30-150	20	30-150	30	30			
Endosulfan II	33213-65-9	0.04	0.00519	ug/l	30-150	20	30-150	30	30			
Endosulfan sulfate	1031-07-8	0.04	0.00481	ug/l	30-150	20	30-150	30	30			
Methoxychlor	72-43-5	0.2	0.00684	ug/l	30-150	20	30-150	30	30			
Toxaphene	8001-35-2	0.2	0.0627	ug/l	30-150	20	30-150	30	30			
Chlordane	57-74-9	0.2	0.0463	ug/l	40-140	20	30-150	30	30			
cis-Chlordane	5103-71-9	0.02	0.00666	ug/l	30-150	20	30-150	30	30			
trans-Chlordane	5103-74-2	0.02	0.00627	ug/l	30-150	20	30-150	30	30			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

Pesticide Sample Data

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/28/24 13:34
Sample Matrix	: WATER	**Date Extracted**	: 09/27/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240928a-17	**Analyst**	: AKM
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/28/24 13:34
Sample Matrix	: WATER	**Date Extracted**	: 09/27/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240928a-17	**Analyst**	: AKM
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticidesII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
60-57-1	Dieldrin	ND	0.029	0.003	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1977043-1	**Date Collected**	: NA
Client ID	: WG1977043-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/27/24 11:56
Sample Matrix	: WATER	**Date Extracted**	: 09/27/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240927a-14	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2024 13:34
Operator : PEST11:akm
Sample : L2454352-01,42,,
Misc : wg1977568,WG1977043,ical21365
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 05:44:44 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:24:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240928A\11240928a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.187	1.260	257.1E6	151.3E6	25.000M4	25.000
	Standard Area 1 : #1 = 274080744				Recovery =	93.80%	
	Standard Area 1 : #2 = 200859350				Recovery =	75.33%	
28) i	1-br-2-nb_Ch	1.187	1.260	257.1E6	151.3E6	25.000M4	25.000
33) i	1-br-2-nb_To	1.187	1.260	257.1E6	151.3E6	25.000M4	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.513	1.706	462.2E6	267.3E6	43.254M4	39.657M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	86.51%	79.31%
27) s	Decachlorobi	6.117	6.750	466.6E6	242.6E6	39.015M4	37.821M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	78.03%	75.64%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	3.700	4.384	1431393	1162177	0.123M4	0.145M4

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2024 13:34
Operator : PEST11:akm
Sample : L2454352-01,42,,
Misc : wg1977568,WG1977043,ical21365
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 05:44:44 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:24:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240928A\11240928a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

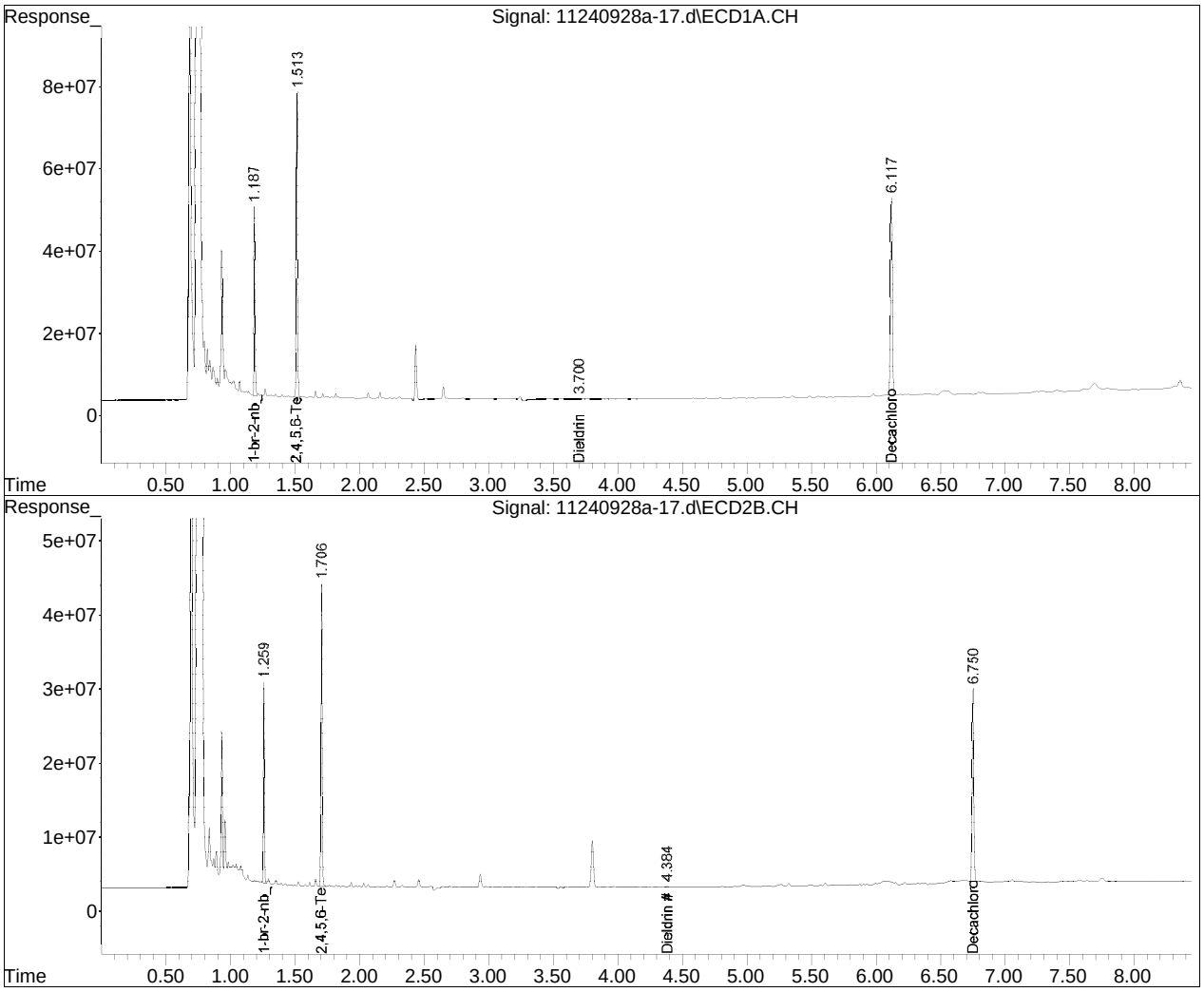
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\11240928a-03.d•

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2024 13:34
Operator : PEST11:akm
Sample : L2454352-01,42,,
Misc : wg1977568,WG1977043,ical21365
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 05:44:44 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:24:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

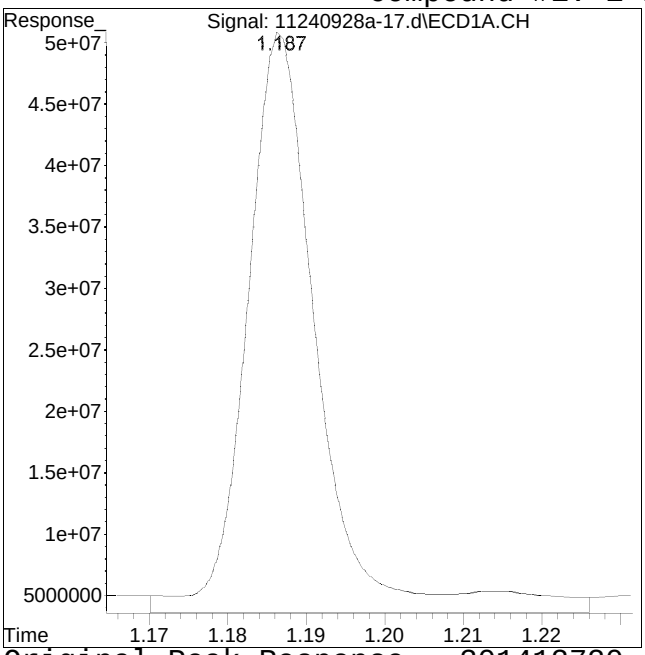
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

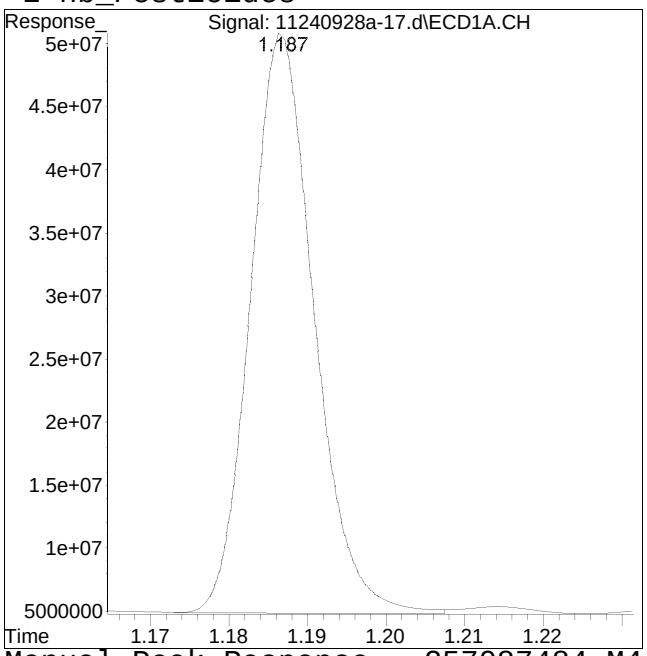


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-17.d Operator : PEST11:akm
Date Inj'd : 9/28/2024 13:34 Instrument : Pest 11
Sample : L2454352-01,42,, Quant Date : 9/29/2024 5:44 am

Compound #1: 1-br-2-nb_Pesticides



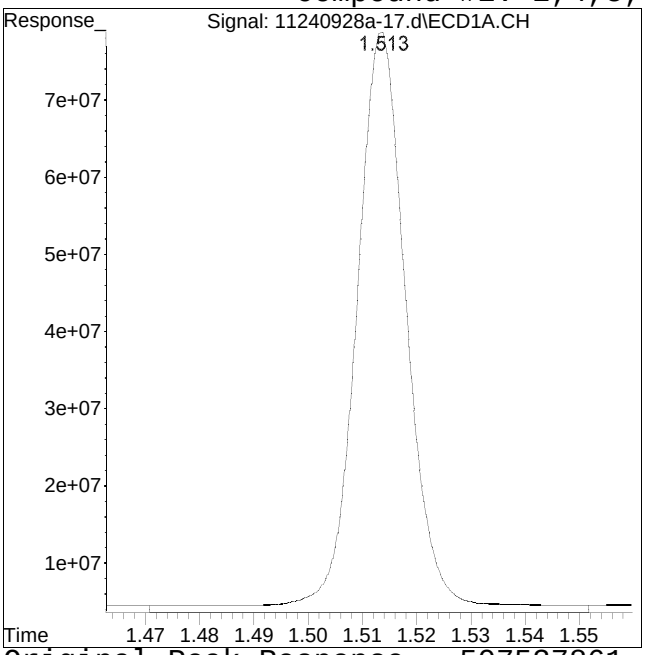


Original Peak Response = 301412720 Manual Peak Response = 257087484 M4
M4 = Poor automated baseline construction.

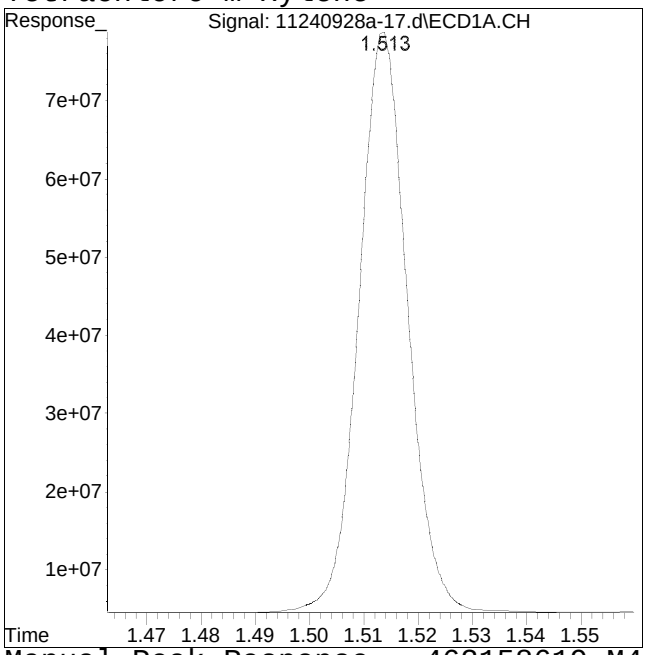
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-17.d Operator : PEST11:akm
Date Inj'd : 9/28/2024 13:34 Instrument : Pest 11
Sample : L2454352-01,42,, Quant Date : 9/29/2024 5:44 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 507537861



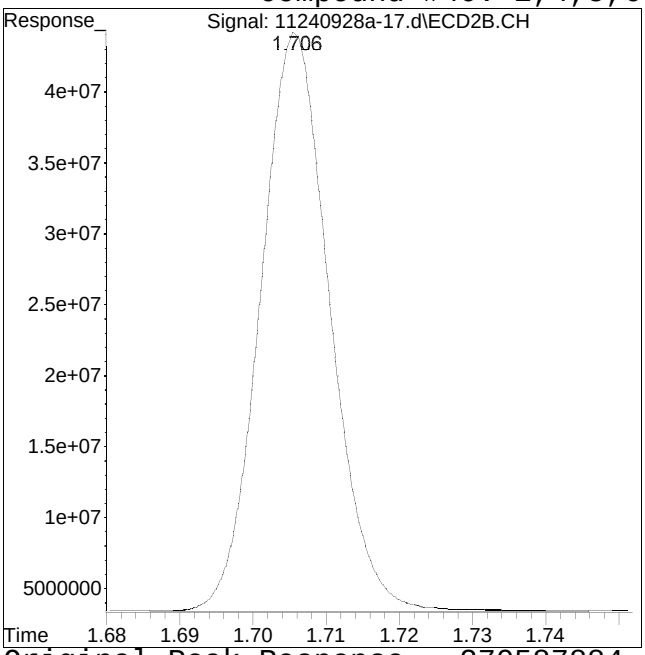
Manual Peak Response = 462158619 M4

M4 = Poor automated baseline construction.

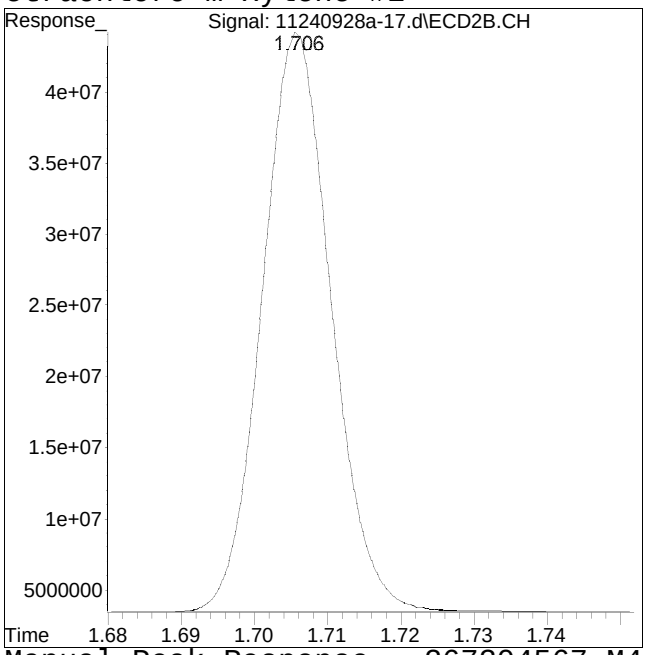
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-17.d Operator : PEST11:akm
Date Inj'd : 9/28/2024 13:34 Instrument : Pest 11
Sample : L2454352-01,42,, Quant Date : 9/29/2024 5:44 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 270587884



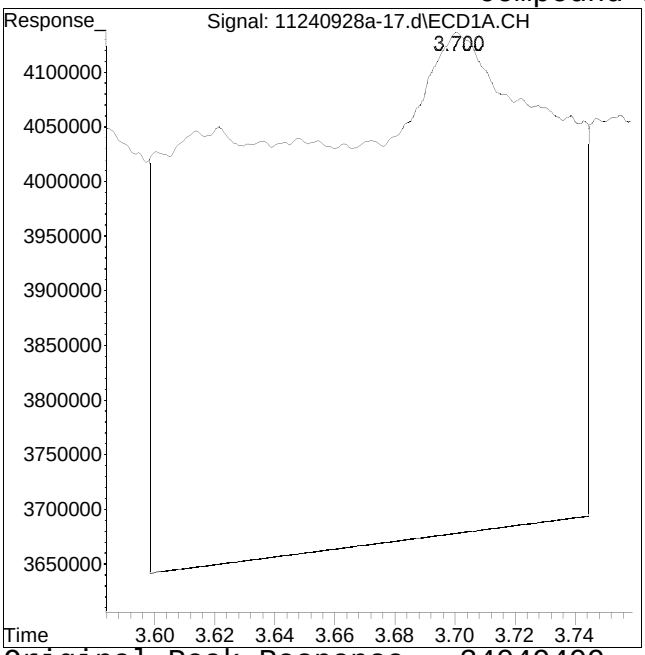
Manual Peak Response = 267304567 M4

M4 = Poor automated baseline construction.

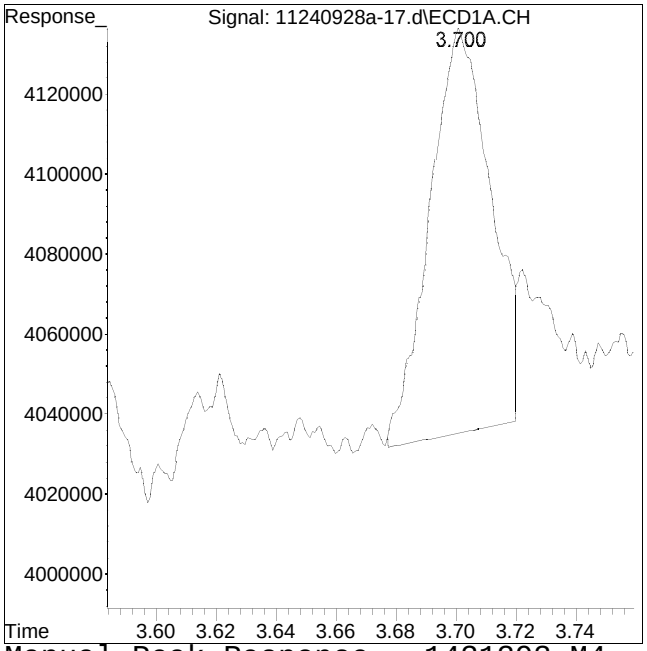
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-17.d Operator : PEST11:akm
Date Inj'd : 9/28/2024 13:34 Instrument : Pest 11
Sample : L2454352-01,42,, Quant Date : 9/29/2024 5:44 am

Compound #17: Dieldrin



Original Peak Response = 34049499



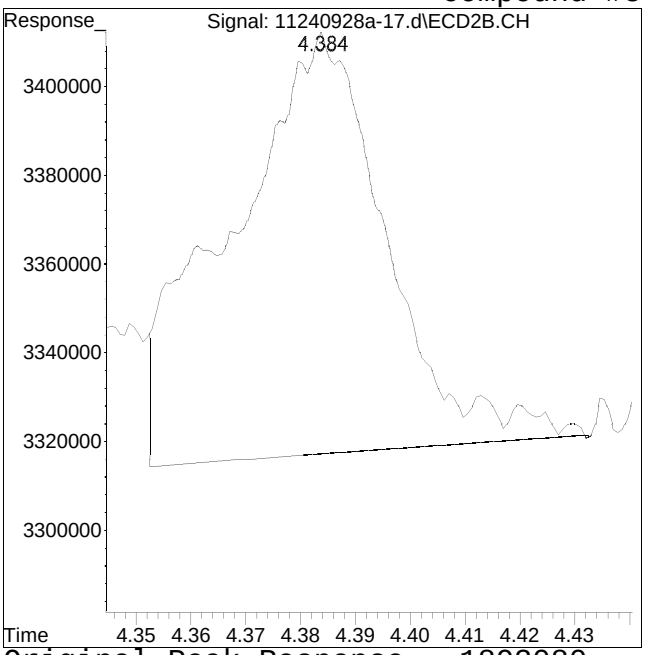
Manual Peak Response = 1431393 M4

M4 = Poor automated baseline construction.

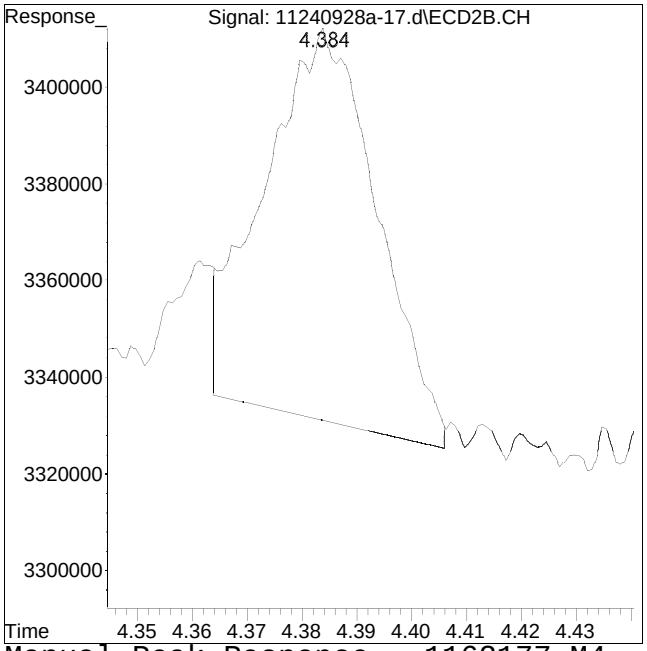
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-17.d Operator : PEST11:akm
Date Inj'd : 9/28/2024 13:34 Instrument : Pest 11
Sample : L2454352-01,42,, Quant Date : 9/29/2024 5:44 am

Compound #55: Dieldrin #2



Original Peak Response = 1893080



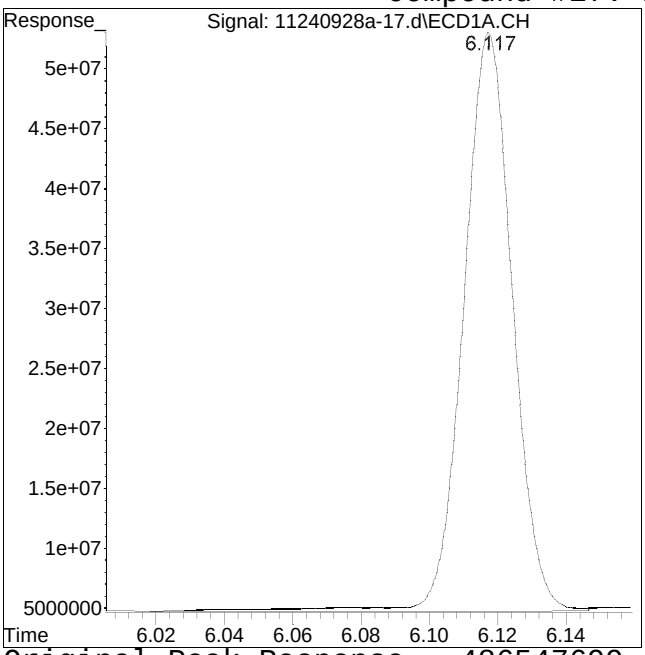
Manual Peak Response = 1162177 M4

M4 = Poor automated baseline construction.

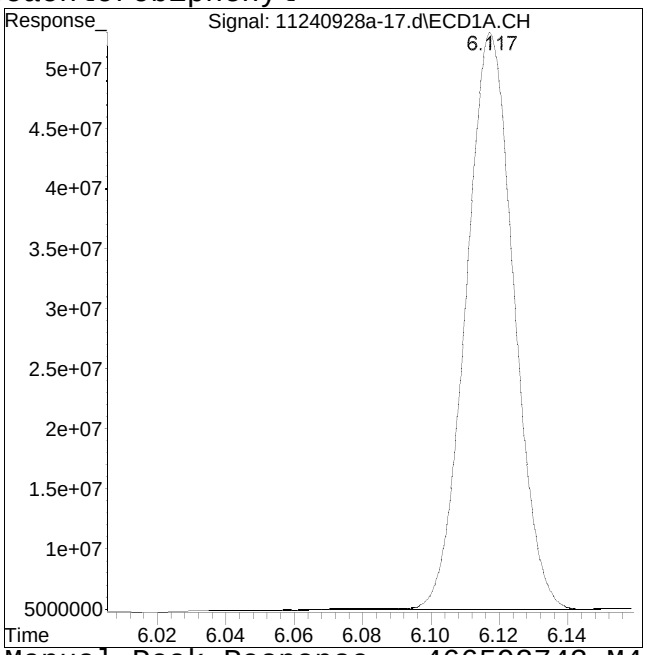
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-17.d Operator : PEST11:akm
Date Inj'd : 9/28/2024 13:34 Instrument : Pest 11
Sample : L2454352-01,42,, Quant Date : 9/29/2024 5:44 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 486547699



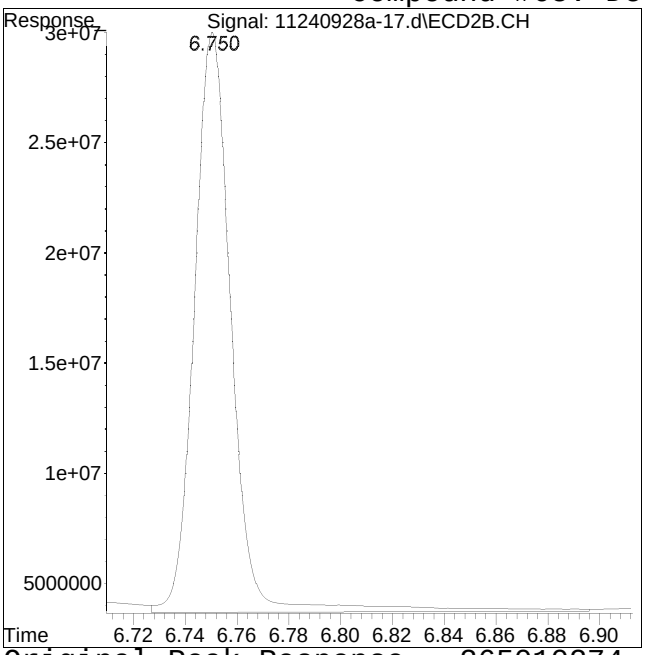
Manual Peak Response = 466592743 M4

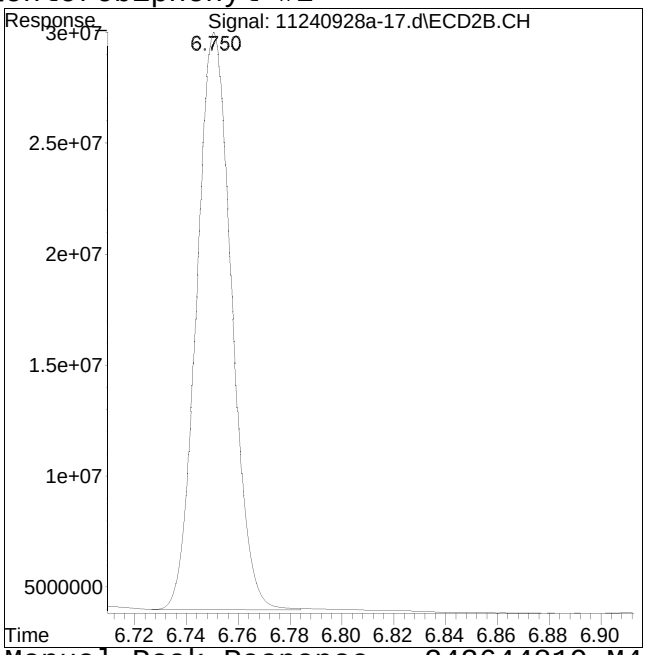
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-17.d Operator : PEST11:akm
Date Inj'd : 9/28/2024 13:34 Instrument : Pest 11
Sample : L2454352-01,42,, Quant Date : 9/29/2024 5:44 am

Compound #65: Decachlorobiphenyl #2



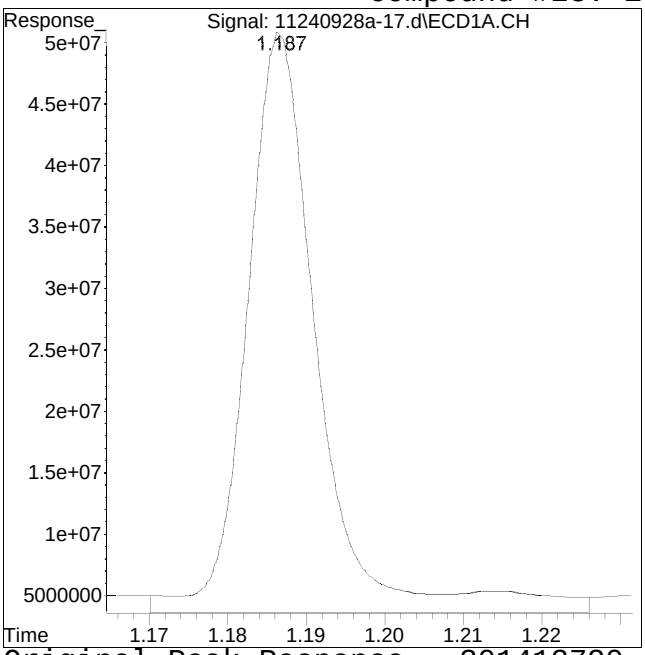


Original Peak Response = 265010274 Manual Peak Response = 242644819 M4
M4 = Poor automated baseline construction.

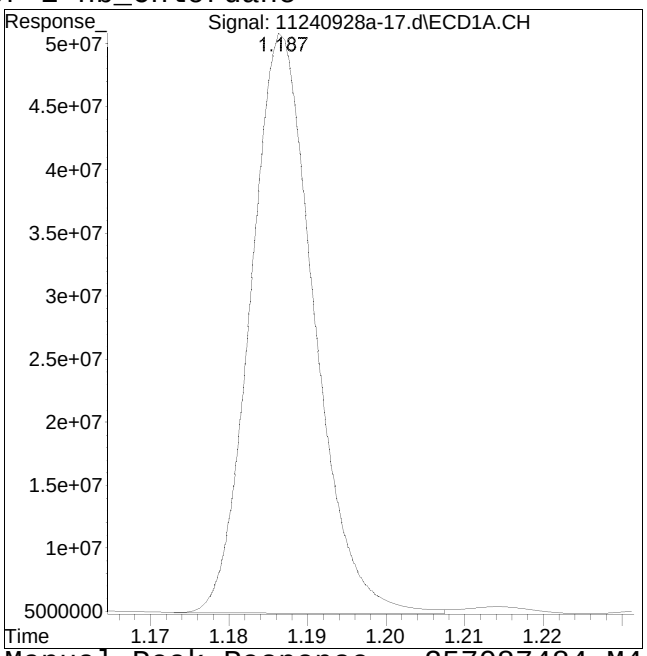
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-17.d Operator : PEST11:akm
Date Inj'd : 9/28/2024 13:34 Instrument : Pest 11
Sample : L2454352-01,42,, Quant Date : 9/29/2024 5:44 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 301412720



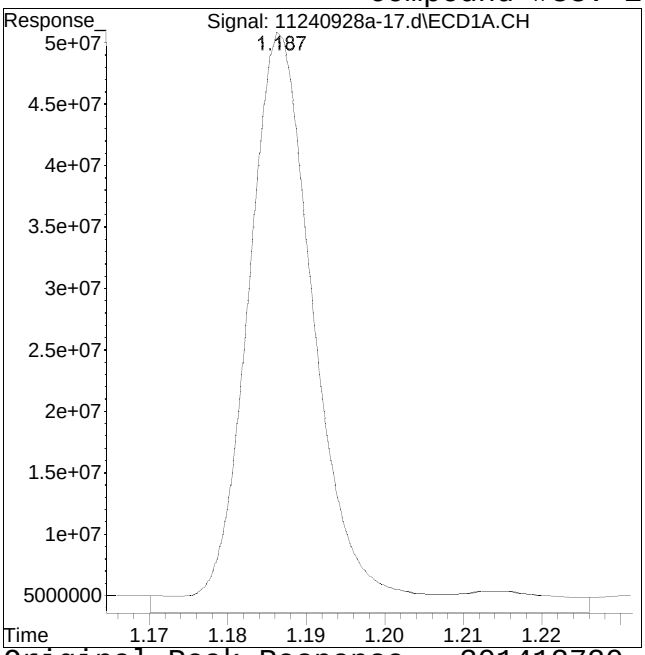
Manual Peak Response = 257087484 M4

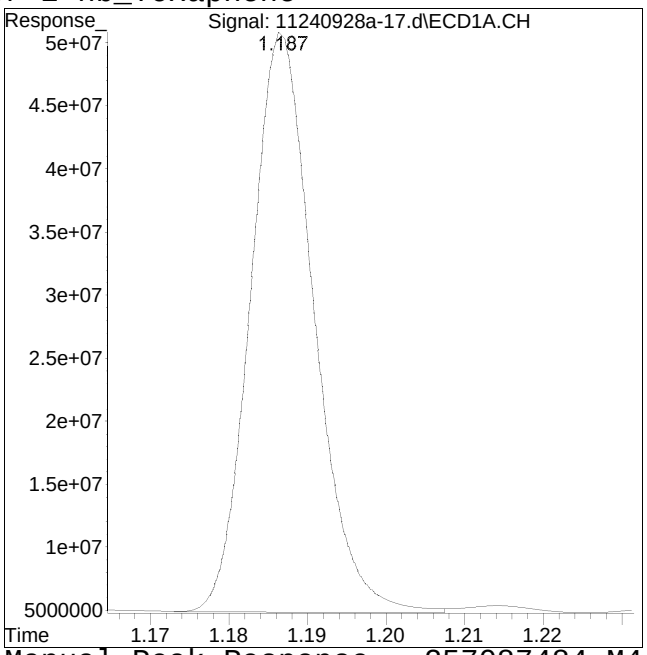
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-17.d Operator : PEST11:akm
Date Inj'd : 9/28/2024 13:34 Instrument : Pest 11
Sample : L2454352-01,42,, Quant Date : 9/29/2024 5:44 am

Compound #33: 1-br-2-nb_Toxaphene





Original Peak Response = 301412720 Manual Peak Response = 257087484 M4
M4 = Poor automated baseline construction.

Pesticides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21365**
Calibration dates	**: 08/01/24 18:37 08/01/24 23:11**		

Calibration Files

1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetrachloro-m-xylene		1.070	1.052	1.075	1.017	1.028	1.042	1.068	1.019	0.980	1.039	3.00
3)	t	Hexachlorobenzene		1.537	1.511	1.518	1.421	1.398	1.344	1.370	1.302	1.253	1.406	7.13
4)	t	alpha-BHC		1.293	1.326	1.375	1.322	1.428	1.579	1.657	1.604	1.561	1.461	9.59
5)	t	gamma-BHC (li	1.464	1.305	1.312	1.356	1.278	1.355	1.457	1.524	1.473	1.430	1.395	6.06
6)	t	beta-BHC		0.665	0.662	0.666	0.624	0.626	0.607	0.622	0.597	0.580	0.628	4.95
7)	t	delta-BHC		1.249	1.257	1.303	1.246	1.337	1.470	1.546	1.502	1.457	1.374	8.70
8)	t	Heptachlor		1.313	1.322	1.357	1.281	1.318	1.358	1.400	1.323	1.217	1.321	3.91
9)	t	Aldrin		1.175	1.189	1.221	1.154	1.205	1.287	1.348	1.300	1.220	1.233	5.24
10)	t	Alachlor			0.247	0.248	0.233	0.238	0.226	0.221	0.199		0.230	7.42
11)	t	Chlorpyrifos			0.674	0.682	0.634	0.615	0.538	0.520	0.466		0.590	14.01
12)	t	Heptachlor Epoxide		1.181	1.208	1.238	1.159	1.186	1.202	1.236	1.175	1.082	1.185	3.96
13)	t	gamma-Chlordane (trans)		1.079	1.070	1.097	1.026	1.044	1.078	1.133	1.110	1.057	1.077	3.07
14)	t	alpha-Chlordane (cis)		1.192	1.207	1.248	1.181	1.200	1.223	1.275	1.242	1.178	1.216	2.74
15)	t	4,4'-DDE		1.107	1.137	1.186	1.119	1.167	1.226	1.298	1.275	1.207	1.192	5.61
16)	t	Endosulfan I		1.109	1.123	1.156	1.085	1.112	1.130	1.172	1.121	1.038	1.116	3.49
17)	t	Dieldrin		1.070	1.103	1.138	1.067	1.113	1.174	1.234	1.196	1.123	1.135	4.98
18)	t	Endrin		1.098	1.132	1.175	1.100	1.144	1.192	1.239	1.188	1.107	1.153	4.25
19)	t	4,4'-DDD		0.857	0.879	0.918	0.859	0.900	0.956	1.015	1.002	0.960	0.927	6.36
20)	t	Endosulfan II		1.034	1.062	1.094	1.026	1.054	1.071	1.111	1.052	0.964	1.052	4.03
21)	t	4,4'-DDT		0.969	1.034	1.071	0.998	1.036	1.083	1.139	1.124	1.071	1.058	5.22
22)	t	Endrin Aldehyde		0.906	0.889	0.917	0.869	0.878	0.877	0.913	0.888	0.841	0.886	2.70
23)	t	Methoxychlor		0.656	0.635	0.675	0.610	0.607	0.565	0.567	0.527	0.485	0.592	10.43
24)	t	Mirex			1.027	1.066	0.980	0.964	0.880	0.899	0.864	0.822	0.938	9.06
25)	t	Endosulfan Sulfate		1.084	1.035	1.065	0.986	1.001	0.988	1.026	0.981	0.922	1.010	4.83
26)	t	Endrin Ketone		1.166	1.200	1.247	1.167	1.200	1.196	1.227	1.160	1.085	1.183	3.94
27)	s	Decachlorobiphenyl		1.355	1.316	1.321	1.208	1.146	1.036	1.055	1.020	1.010	1.163	12.13
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.038	0.036	0.037	0.037	0.038	0.037	0.036		*L	0.999
3)														
30)	l1	chlordane-3			0.049	0.052	0.049	0.046	0.045	0.044	0.040		*L	0.997
4)														
31)	l1	chlordane-4			0.164	0.158	0.156	0.160	0.165	0.162	0.151		*L	0.998
6)														
32)	l1	chlordane-5			0.243	0.244	0.245	0.250	0.255	0.249	0.230		*L	0.998
2)														

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21365**
Calibration dates	**: 08/01/24 18:37 08/01/24 23:11**		

Calibration Files

1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33) i	1-br-2-nb_Toxaphene	ISTD											
34) l2	toxaphene-2			0.038	0.046		0.055	0.055	0.056			*L	0.999
8)													
35) l2	toxaphene-3			0.032	0.035		0.042	0.043	0.044			*L	0.999
5)													
36) l2	toxaphene-4			0.041	0.040		0.042	0.043	0.045			*L	0.999
2)													
37) l2	toxaphene-5			0.053	0.041		0.039	0.039	0.040			*L	0.999
9)													

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21365**
Calibration dates	**: 08/01/24 18:37 08/01/24 23:11**		

Signal #2 Calibration Files

1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra			1.206	1.206	1.141	1.107	1.082	1.085	1.067	1.091	1.038	1.114	5.33
3)	t	Hexachloroben			1.451	1.390	1.323	1.249	1.197	1.146	1.145	1.144	1.106	1.239	9.92
4)	t	alpha-BHC			1.558	1.563	1.526	1.479	1.547	1.686	1.736	1.764	1.719	1.620	6.53
5)	t	gamma-BHC (li		1.777	1.551	1.516	1.480	1.413	1.442	1.525	1.563	1.584	1.540	1.539	6.46
6)	t	beta-BHC			0.854	0.824	0.779	0.737	0.692	0.642	0.639	0.637	0.614	*L	0.999
6)															
7)	t	delta-BHC			1.529	1.507	1.460	1.411	1.443	1.548	1.598	1.627	1.582	1.523	4.86
8)	t	Heptachlor			1.786	1.721	1.657	1.575	1.545	1.553	1.565	1.548	1.427	1.598	6.72
9)	t	Aldrin			1.511	1.468	1.436	1.367	1.367	1.434	1.469	1.478	1.382	1.435	3.65
10)	t	Alachlor			0.293	0.281	0.264	0.241	0.197	0.183	0.172		*L	0.996	
7)															
11)	t	Chlorpyrifos			1.095	1.043	0.969	0.877	0.736	0.700	0.666		*L	0.998	
3)															
12)	t	Heptachlor Ep		1.616	1.577	1.520	1.425	1.372	1.353	1.362	1.352	1.252	1.425	8.44	
13)	t	gamma-Chlorda		1.483	1.457	1.376	1.298	1.234	1.224	1.252	1.275	1.205	1.312	7.85	
14)	t	alpha-Chlorda		1.641	1.577	1.521	1.435	1.382	1.359	1.381	1.400	1.318	1.446	7.54	
15)	t	4,4'-DDE		1.377	1.359	1.330	1.263	1.272	1.348	1.390	1.418	1.327	1.343	3.82	
16)	t	Endosulfan I		1.515	1.476	1.419	1.334	1.284	1.260	1.269	1.263	1.167	1.332	8.59	
17)	t	Dieldrin		1.415	1.389	1.352	1.281	1.267	1.305	1.334	1.344	1.257	1.327	4.11	
18)	t	Endrin		1.442	1.411	1.375	1.305	1.290	1.326	1.350	1.356	1.265	1.347	4.25	
19)	t	4,4'-DDD		1.118	1.104	1.084	1.022	1.026	1.071	1.106	1.134	1.088	1.084	3.57	
20)	t	Endosulfan II		1.364	1.341	1.298	1.220	1.180	1.154	1.164	1.150	1.053	1.214	8.39	
21)	t	4,4'-DDT		1.293	1.294	1.271	1.196	1.196	1.227	1.262	1.290	1.222	1.250	3.26	
22)	t	Endrin Aldehyde		1.156	1.131	1.093	1.025	0.982	0.941	0.951	0.957	0.906	*L	0.999	
3)															
23)	t	Methoxychlor		0.848	0.816	0.797	0.739	0.695	0.630	0.620	0.614	0.581	0.704	14.13	
24)	t	Mirex			1.298	1.250	1.156	1.061	0.921	0.910	0.914	0.867	*L	0.999	
3)															
25)	t	Endosulfan Su		1.382	1.336	1.302	1.218	1.159	1.107	1.116	1.118	1.054	1.199	9.68	
26)	t	Endrin Ketone		1.378	1.372	1.340	1.264	1.245	1.205	1.207	1.200	1.136	1.261	6.75	
27)	s	Decachlorobip		1.252	1.219	1.185	1.105	1.040	0.936	0.932	0.943	0.929	1.060	12.61	
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.054	0.052	0.044	0.039	0.040	0.040	0.035		*L	0.996	
3)															
30)	l1	chlordane-3			0.070	0.064	0.055	0.047	0.046	0.044	0.037		*L	0.991	

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21365**
Calibration dates	**: 08/01/24 18:37 08/01/24 23:11**		

Signal #2 Calibration Files

1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
2)														
31)	l1	chlordane-4			0.208	0.191	0.166	0.163	0.167	0.169	0.147		*L	0.995
9)														
32)	l1	chlordane-5			0.162	0.149	0.130	0.126	0.128	0.129	0.113		*L	0.996
1)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-2			0.028	0.028		0.023	0.023	0.024			*L	0.999
7)														
35)	l2	toxaphene-3			0.042	0.040		0.035	0.035	0.035			*L	0.999
8)														
36)	l2	toxaphene-4			0.049	0.047		0.041	0.041	0.042			*L	0.999
7)														
37)	l2	toxaphene-5			0.050	0.045		0.038	0.038	0.039			*L	0.999
7)														

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.070	1.052	1.075	1.017	1.028	1.042	1.068	1.019	0.980	1.039	3.00
3)	t	Hexachloroben...		1.537	1.511	1.518	1.421	1.398	1.344	1.370	1.302	1.253	1.406	7.13
4)	t	alpha-BHC		1.293	1.326	1.375	1.322	1.428	1.579	1.657	1.604	1.561	1.461	9.59
5)	t	gamma-BHC (li...	1.464	1.305	1.312	1.356	1.278	1.355	1.457	1.524	1.473	1.430	1.395	6.06
6)	t	beta-BHC		0.665	0.662	0.666	0.624	0.626	0.607	0.622	0.597	0.580	0.628	4.95
7)	t	delta-BHC		1.249	1.257	1.303	1.246	1.337	1.470	1.546	1.502	1.457	1.374	8.70
8)	t	Heptachlor		1.313	1.322	1.357	1.281	1.318	1.358	1.400	1.323	1.217	1.321	3.91
9)	t	Aldrin		1.175	1.189	1.221	1.154	1.205	1.287	1.348	1.300	1.220	1.233	5.24
10)	t	Alachlor			0.247	0.248	0.233	0.238	0.226	0.221	0.199		0.230	7.42
11)	t	Chlorpyrifos			0.674	0.682	0.634	0.615	0.538	0.520	0.466		0.590	14.01
12)	t	Heptachlor Ep...		1.181	1.208	1.238	1.159	1.186	1.202	1.236	1.175	1.082	1.185	3.96
13)	t	gamma-Chlorda...		1.079	1.070	1.097	1.026	1.044	1.078	1.133	1.110	1.057	1.077	3.07
14)	t	alpha-Chlorda...		1.192	1.207	1.248	1.181	1.200	1.223	1.275	1.242	1.178	1.216	2.74
15)	t	4,4'-DDE		1.107	1.137	1.186	1.119	1.167	1.226	1.298	1.275	1.207	1.192	5.61
16)	t	Endosulfan I		1.109	1.123	1.156	1.085	1.112	1.130	1.172	1.121	1.038	1.116	3.49

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
17)	t	Dieldrin		1.070	1.103	1.138	1.067	1.113	1.174	1.234	1.196	1.123	1.135	4.98
18)	t	Endrin		1.098	1.132	1.175	1.100	1.144	1.192	1.239	1.188	1.107	1.153	4.25
19)	t	4,4'-DDD		0.857	0.879	0.918	0.859	0.900	0.956	1.015	1.002	0.960	0.927	6.36
20)	t	Endosulfan II		1.034	1.062	1.094	1.026	1.054	1.071	1.111	1.052	0.964	1.052	4.03
21)	t	4,4'-DDT		0.969	1.034	1.071	0.998	1.036	1.083	1.139	1.124	1.071	1.058	5.22
22)	t	Endrin Aldehyde		0.906	0.889	0.917	0.869	0.878	0.877	0.913	0.888	0.841	0.886	2.70
23)	t	Methoxychlor		0.656	0.635	0.675	0.610	0.607	0.565	0.567	0.527	0.485	0.592	10.43
24)	t	Mirex			1.027	1.066	0.980	0.964	0.880	0.899	0.864	0.822	0.938	9.06
25)	t	Endosulfan Su...		1.084	1.035	1.065	0.986	1.001	0.988	1.026	0.981	0.922	1.010	4.83
26)	t	Endrin Ketone		1.166	1.200	1.247	1.167	1.200	1.196	1.227	1.160	1.085	1.183	3.94
27)	s	Decachlorobip...		1.355	1.316	1.321	1.208	1.146	1.036	1.055	1.020	1.010	1.163	12.13
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.038	0.036	0.037	0.037	0.038	0.037	0.036		*L	0.999
3														
30)	l1	chlordane-3			0.049	0.052	0.049	0.046	0.045	0.044	0.040		*L	0.997
4														
31)	l1	chlordane-4			0.164	0.158	0.156	0.160	0.165	0.162	0.151		*L	0.998
6														
32)	l1	chlordane-5			0.243	0.244	0.245	0.250	0.255	0.249	0.230		*L	0.998
2														

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-2			0.038	0.046		0.055	0.055	0.056			*L	0.9998
35)	l2	toxaphene-3			0.032	0.035		0.042	0.043	0.044			*L	0.9995
36)	l2	toxaphene-4			0.041	0.040		0.042	0.043	0.045			*L	0.9992
37)	l2	toxaphene-5			0.053	0.041		0.039	0.039	0.040			*L	0.9999

Signal #2 Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...			1.206	1.206	1.141	1.107	1.082	1.085	1.067	1.091	1.038	1.114	5.33
3)	t	Hexachloroben...			1.451	1.390	1.323	1.249	1.197	1.146	1.145	1.144	1.106	1.239	9.92
4)	t	alpha-BHC			1.558	1.563	1.526	1.479	1.547	1.686	1.736	1.764	1.719	1.620	6.53
5)	t	gamma-BHC (li...		1.777	1.551	1.516	1.480	1.413	1.442	1.525	1.563	1.584	1.540	1.539	6.46
6)	t	beta-BHC			0.854	0.824	0.779	0.737	0.692	0.642	0.639	0.637	0.614	*L	0.9996
7)	t	delta-BHC			1.529	1.507	1.460	1.411	1.443	1.548	1.598	1.627	1.582	1.523	4.86
8)	t	Heptachlor			1.786	1.721	1.657	1.575	1.545	1.553	1.565	1.548	1.427	1.598	6.72
9)	t	Aldrin			1.511	1.468	1.436	1.367	1.367	1.434	1.469	1.478	1.382	1.435	3.65

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
10)	t	Alachlor			0.293	0.281	0.264	0.241	0.197	0.183	0.172		*L	0.996
7														
11)	t	Chlorpyrifos			1.095	1.043	0.969	0.877	0.736	0.700	0.666		*L	0.998
3														
12)	t	Heptachlor Ep...		1.616	1.577	1.520	1.425	1.372	1.353	1.362	1.352	1.252	1.425	8.44
13)	t	gamma-Chlorda...		1.483	1.457	1.376	1.298	1.234	1.224	1.252	1.275	1.205	1.312	7.85
14)	t	alpha-Chlorda...		1.641	1.577	1.521	1.435	1.382	1.359	1.381	1.400	1.318	1.446	7.54
15)	t	4,4'-DDE		1.377	1.359	1.330	1.263	1.272	1.348	1.390	1.418	1.327	1.343	3.82
16)	t	Endosulfan I		1.515	1.476	1.419	1.334	1.284	1.260	1.269	1.263	1.167	1.332	8.59
17)	t	Dieldrin		1.415	1.389	1.352	1.281	1.267	1.305	1.334	1.344	1.257	1.327	4.11
18)	t	Endrin		1.442	1.411	1.375	1.305	1.290	1.326	1.350	1.356	1.265	1.347	4.25
19)	t	4,4'-DDD		1.118	1.104	1.084	1.022	1.026	1.071	1.106	1.134	1.088	1.084	3.57
20)	t	Endosulfan II		1.364	1.341	1.298	1.220	1.180	1.154	1.164	1.150	1.053	1.214	8.39
21)	t	4,4'-DDT		1.293	1.294	1.271	1.196	1.196	1.227	1.262	1.290	1.222	1.250	3.26
22)	t	Endrin Aldehyde		1.156	1.131	1.093	1.025	0.982	0.941	0.951	0.957	0.906	*L	0.999
3														
23)	t	Methoxychlor		0.848	0.816	0.797	0.739	0.695	0.630	0.620	0.614	0.581	0.704	14.13
24)	t	Mirex			1.298	1.250	1.156	1.061	0.921	0.910	0.914	0.867	*L	0.999
3														
25)	t	Endosulfan Su...		1.382	1.336	1.302	1.218	1.159	1.107	1.116	1.118	1.054	1.199	9.68

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
26)	t	Endrin Ketone		1.378	1.372	1.340	1.264	1.245	1.205	1.207	1.200	1.136	1.261		6.75
27)	s	Decachlorobip...		1.252	1.219	1.185	1.105	1.040	0.936	0.932	0.943	0.929	1.060		12.61
28)	i	1-br-2-nb_Chlordane	----------ISTD----------												
29)	l1	chlordane-1		0.054	0.052	0.044	0.039	0.040	0.040	0.035				*L	0.996
3															
30)	l1	chlordane-3		0.070	0.064	0.055	0.047	0.046	0.044	0.037				*L	0.991
2															
31)	l1	chlordane-4		0.208	0.191	0.166	0.163	0.167	0.169	0.147				*L	0.995
9															
32)	l1	chlordane-5		0.162	0.149	0.130	0.126	0.128	0.129	0.113				*L	0.996
1															
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------												
34)	l2	toxaphene-2		0.028	0.028		0.023	0.023	0.024					*L	0.999
7															
35)	l2	toxaphene-3		0.042	0.040		0.035	0.035	0.035					*L	0.999
8															
36)	l2	toxaphene-4		0.049	0.047		0.041	0.041	0.042					*L	0.999
7															
37)	l2	toxaphene-5		0.050	0.045		0.038	0.038	0.039					*L	0.999
7															

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:25
Operator : PEST11:ejl
Sample : pem11240801i-01,42e,,pp 11667 - (Sig #1); pem-01,42e,,pp 11667 - (Sig #2)
Misc : WG1955254,ical
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:30:39 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:15 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	226.2E6	184.7E6	25.000M4	25.000
	System Monitoring Compounds						
	Target Compounds						
15) t	4,4'-DDE	3.659	4.472	862871	1055459	0.080M2	0.106M4
18) t	Endrin	4.211	4.925	519.0E6	456.6E6	49.762M4	45.902M3
19) t	4,4'-DDD	4.325	5.050	1951195	2046326	0.233M4	0.256M3
21) t	4,4'-DDT	4.616	5.325	974.6E6	872.9E6	101.766M4	94.533M4
22) t D	Endrin Aldeh	4.869	5.421	1022766	1047335	0.128M3	N.D. M4
26) t	Endrin Keton	5.487	6.059	4628888	4774072	0.432M4	0.513M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:25
Operator : PEST11:ejl
Sample : pem11240801i-01,42e,,pp 11667 - (Sig #1); pem-01,42e,,pp 11667 - (Sig #2)
Misc : WG1955254,ical
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:30:39 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:15 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

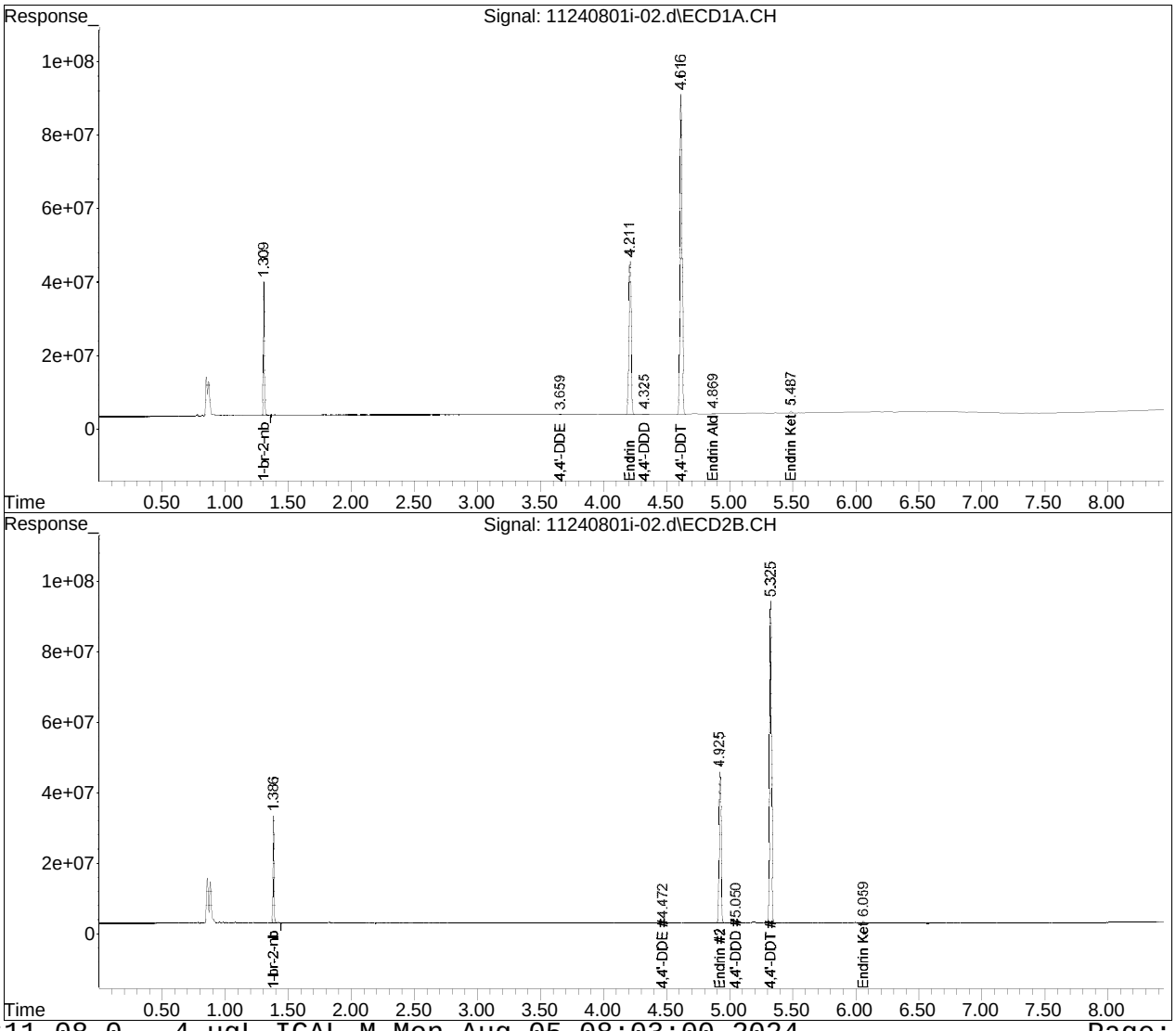
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:25
Operator : PEST11:ejl
Sample : pem11240801i-01,42e,,pp 11667 - (Sig #1); pem-01,42e,,pp 11667 - (
Misc : WG1955254,ical
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:30:39 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:15 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

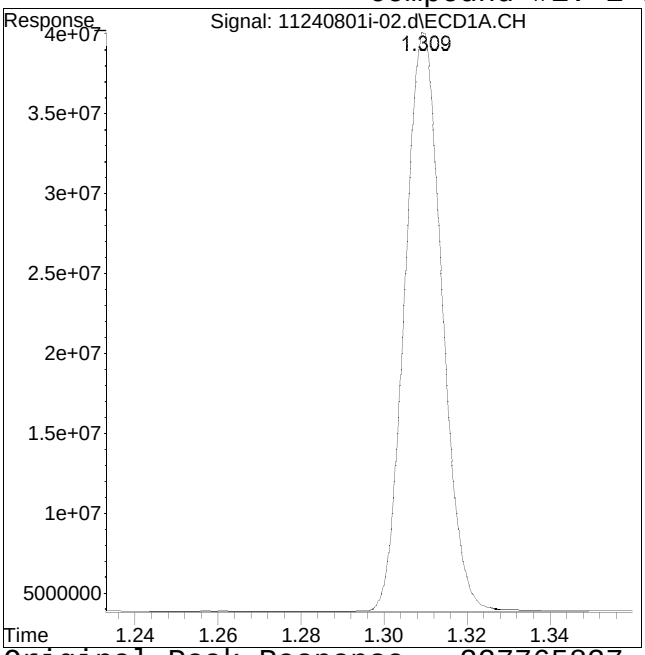


Manual Integration Report

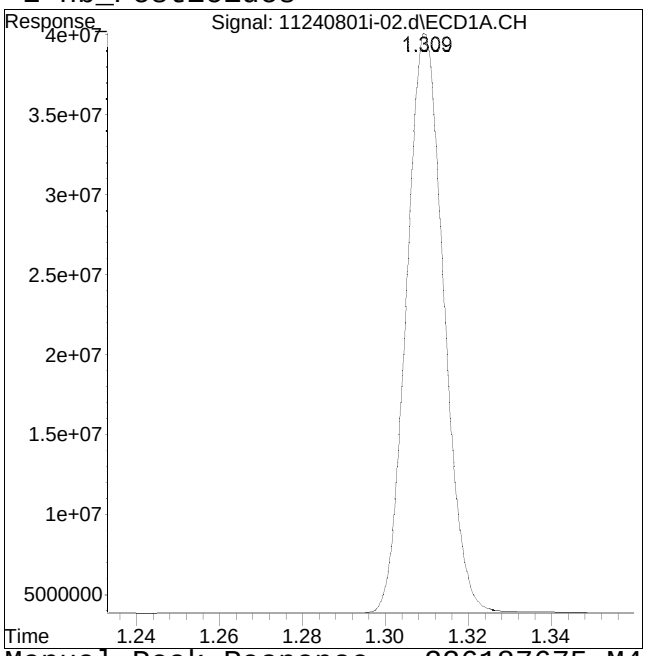
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-02.d
Date Inj'd : 8/1/2024 18:25
Sample : pem11240801i-01,42e,,pp 11

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:30 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 227765837



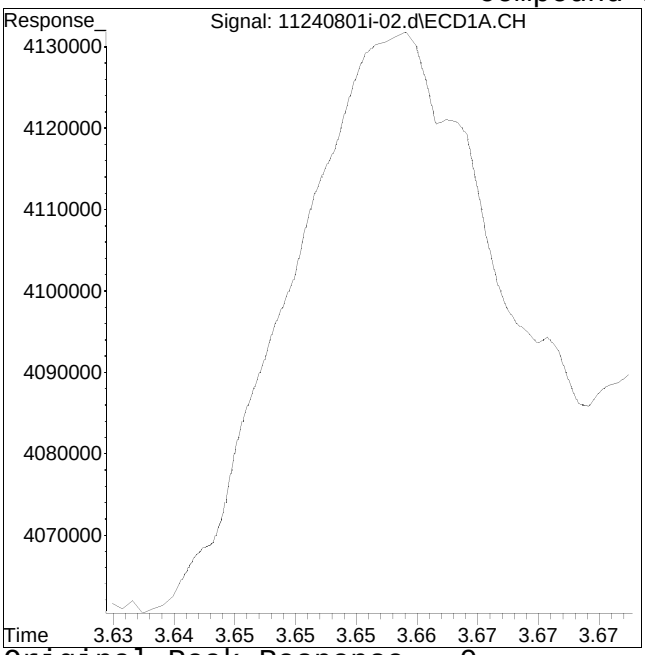
Manual Peak Response = 226187675 M4

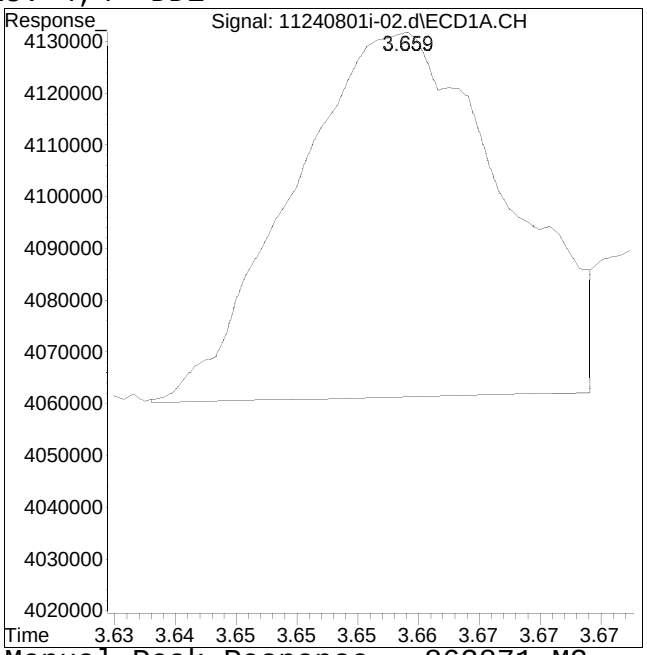
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #15: 4,4'-DDE



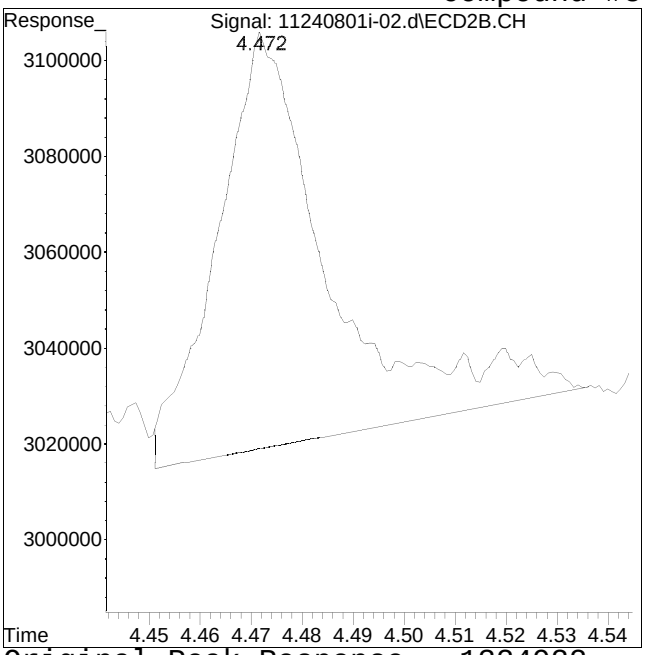


Original Peak Response = 0 Manual Peak Response = 862871 M2
M2 = Peak not found by automatic integration algorithm.

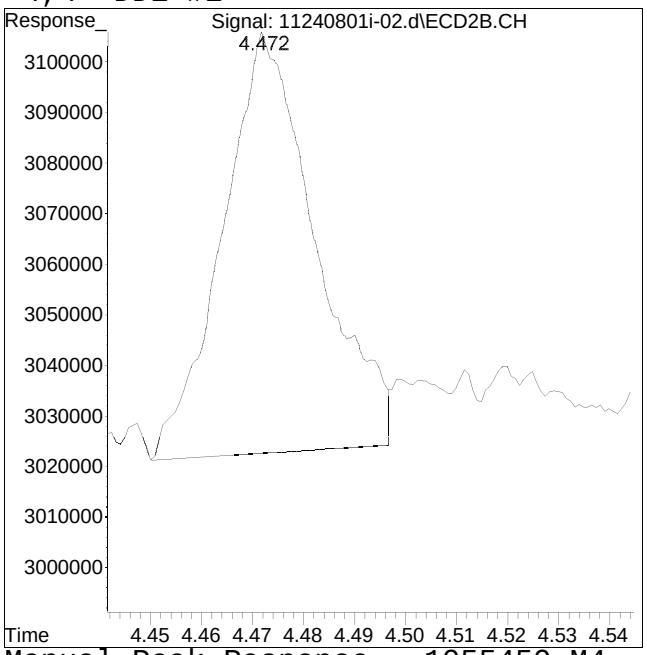
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 1324922



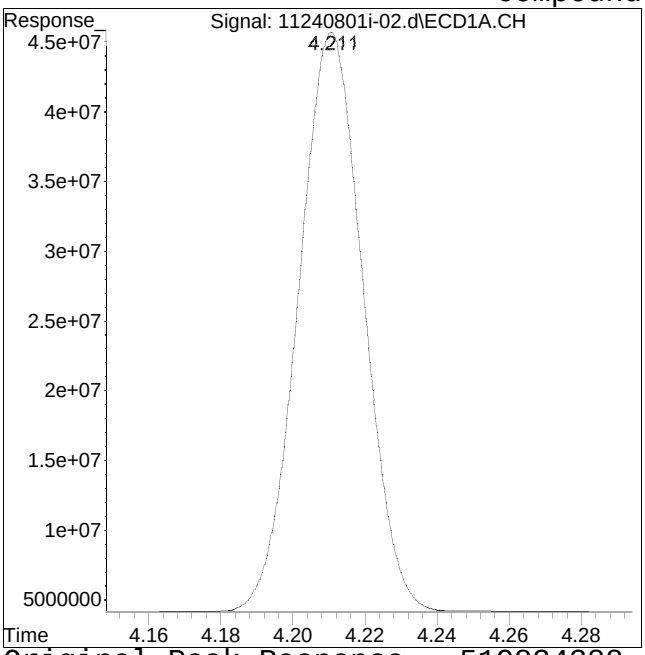
Manual Peak Response = 1055459 M4

M4 = Poor automated baseline construction.

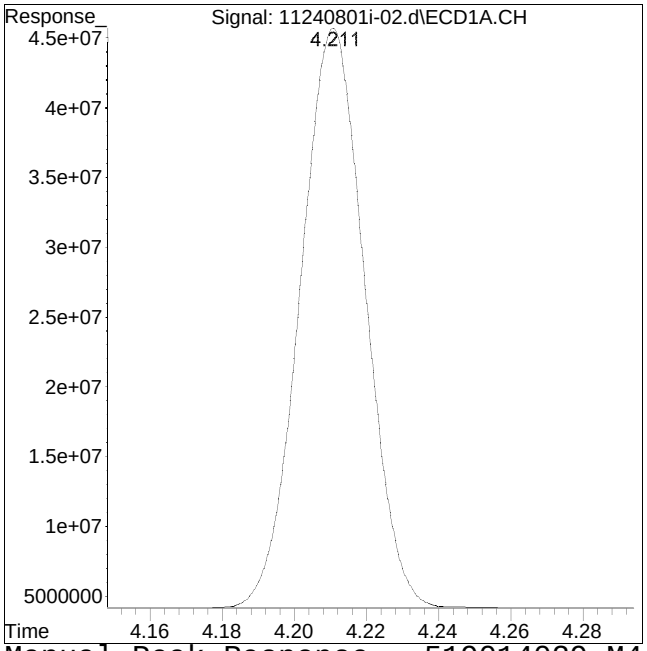
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #18: Endrin



Original Peak Response = 519834388



Manual Peak Response = 519014029 M4

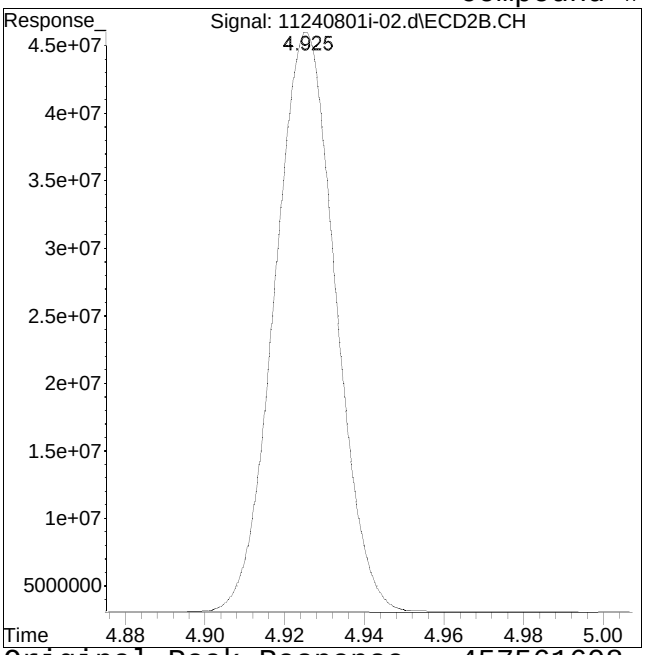
M4 = Poor automated baseline construction.

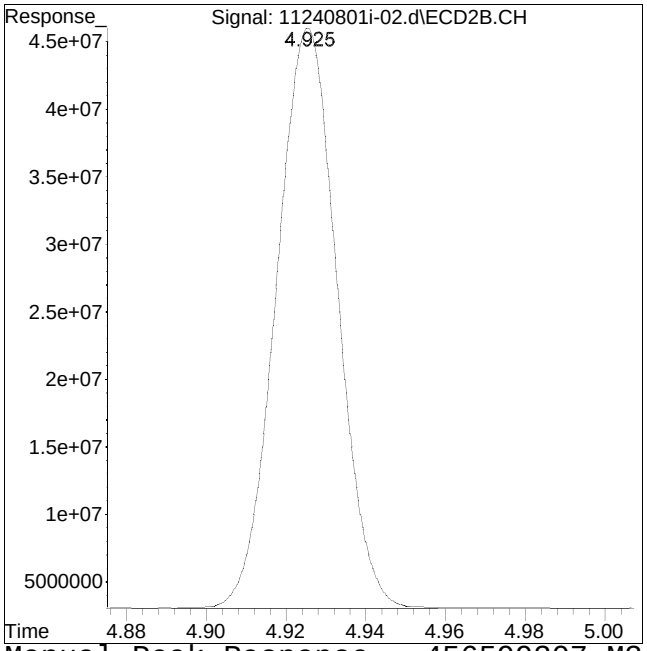
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-02.d
Date Inj'd : 8/1/2024 18:25
Sample : pem11240801i-01,42e,,pp 11

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:30 pm

Compound #56: Endrin #2





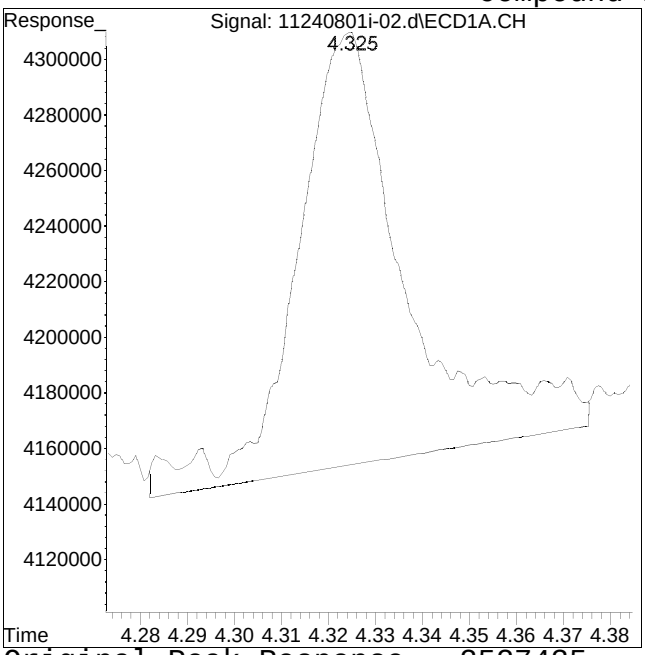
Original Peak Response = 457561608 Manual Peak Response = 456599307 M3

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

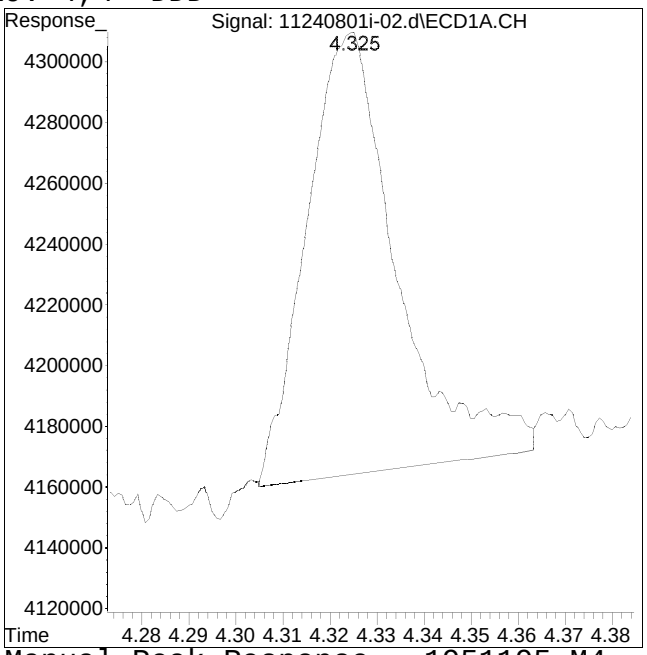
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #19: 4,4'-DDD



Original Peak Response = 2527435



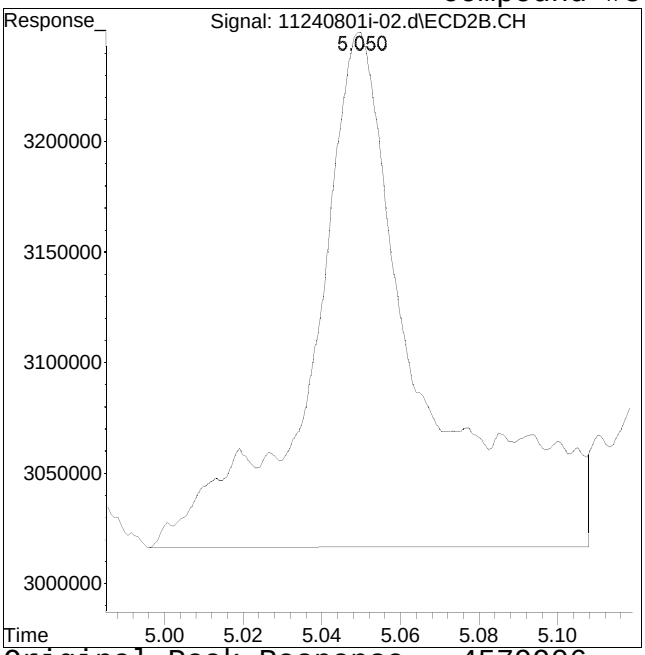
Manual Peak Response = 1951195 M4

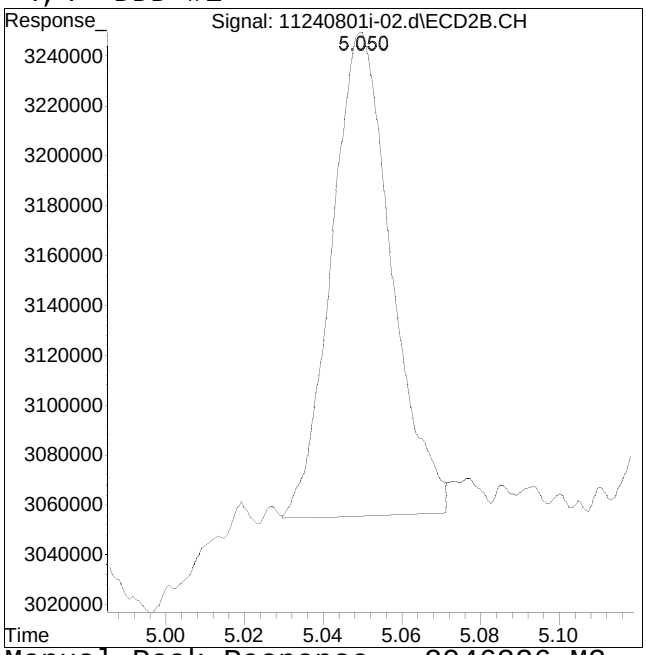
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #57: 4,4'-DDD #2



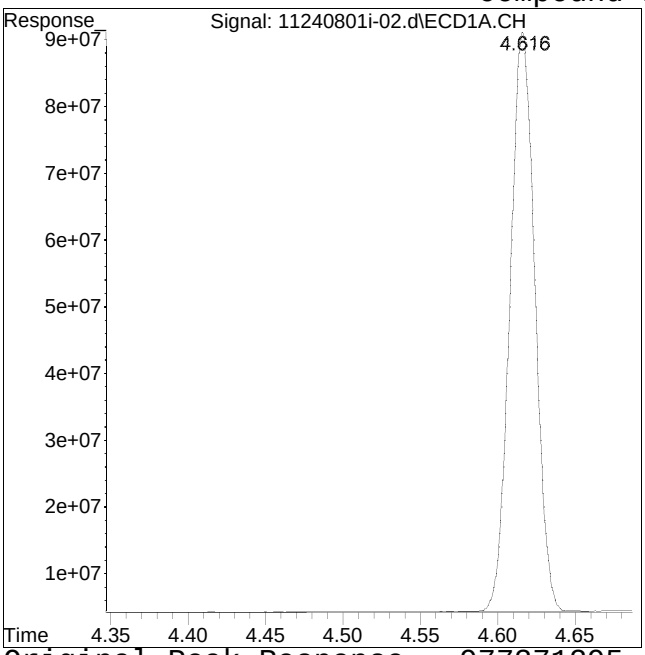


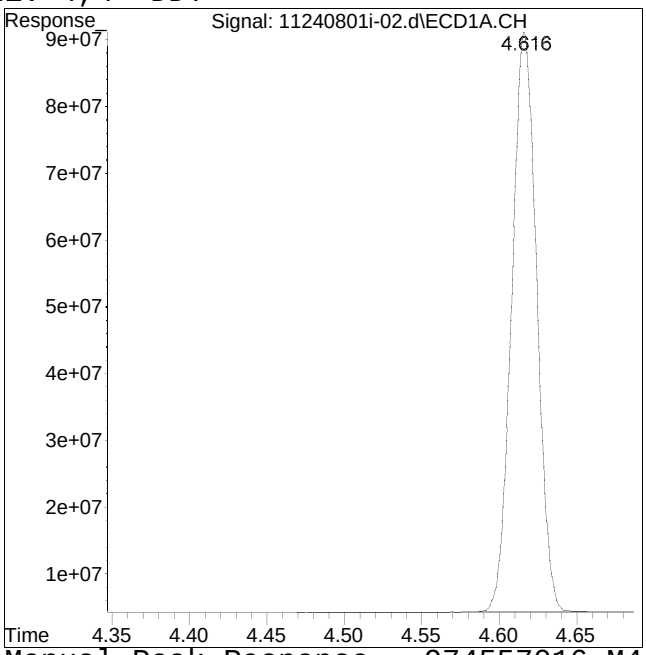
Original Peak Response = 4579906 Manual Peak Response = 2046326 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #21: 4,4'-DDT



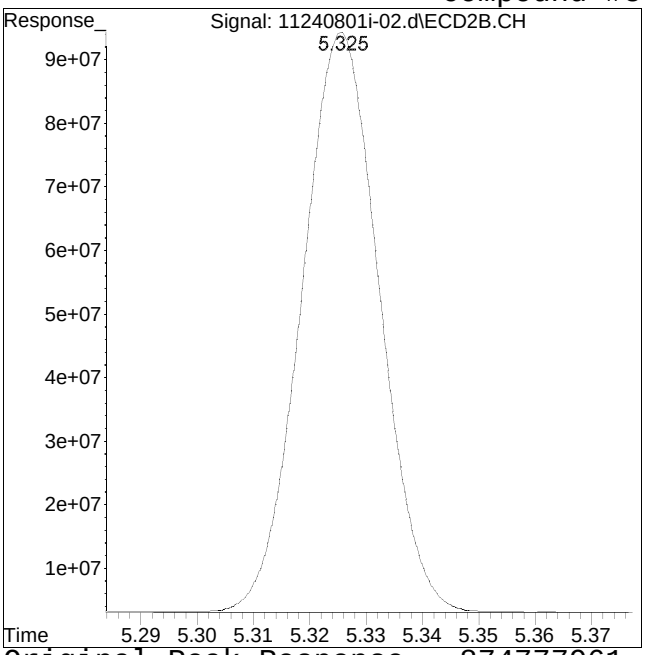


Original Peak Response = 977371295 Manual Peak Response = 974557016 M4
M4 = Poor automated baseline construction.

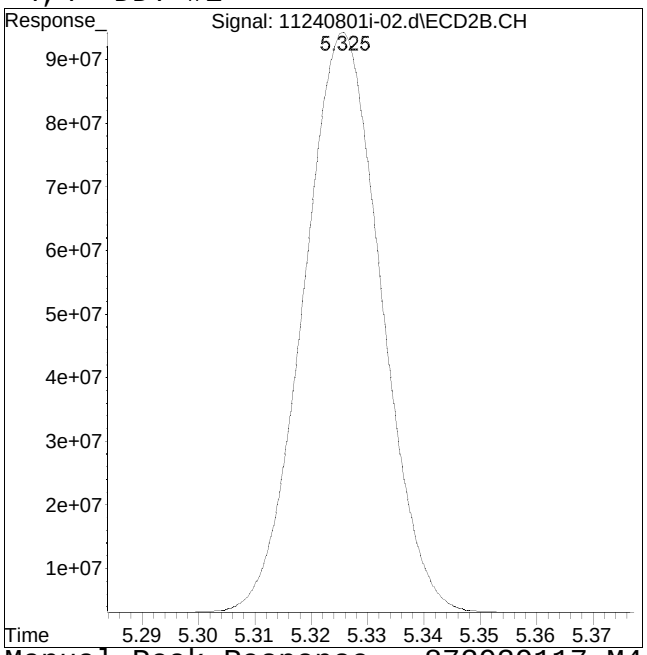
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 874777961



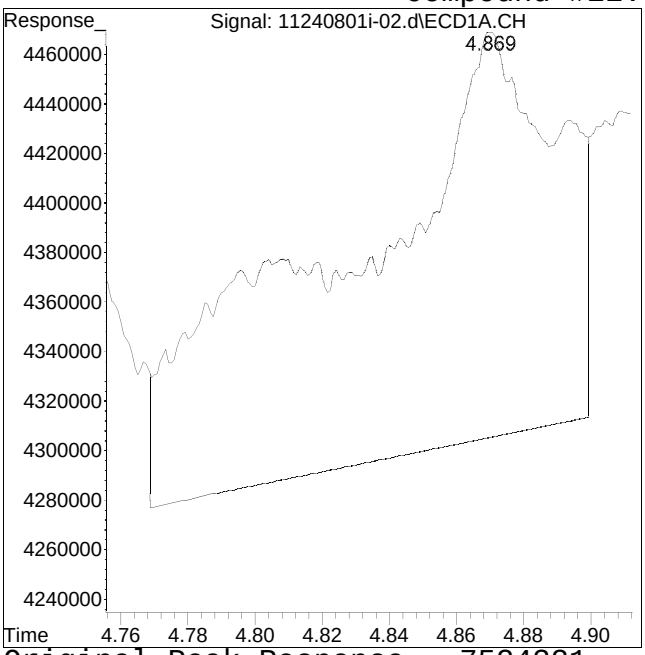
Manual Peak Response = 872939117 M4

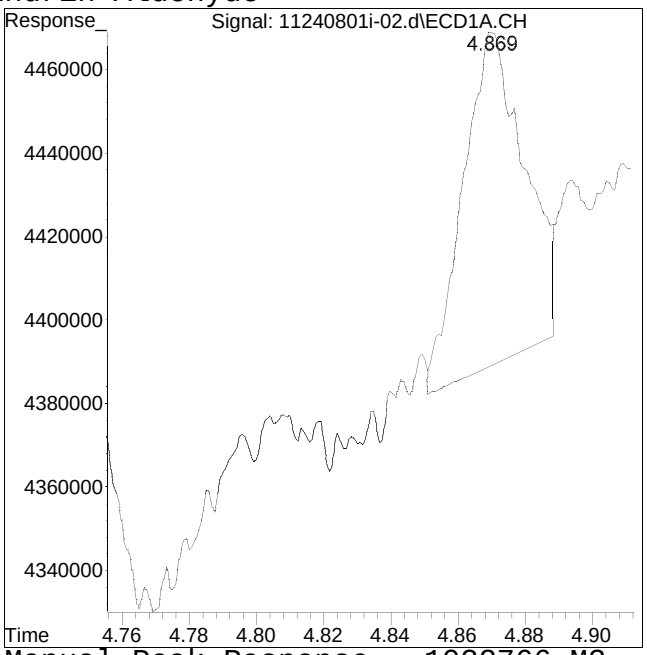
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #22: Endrin Aldehyde



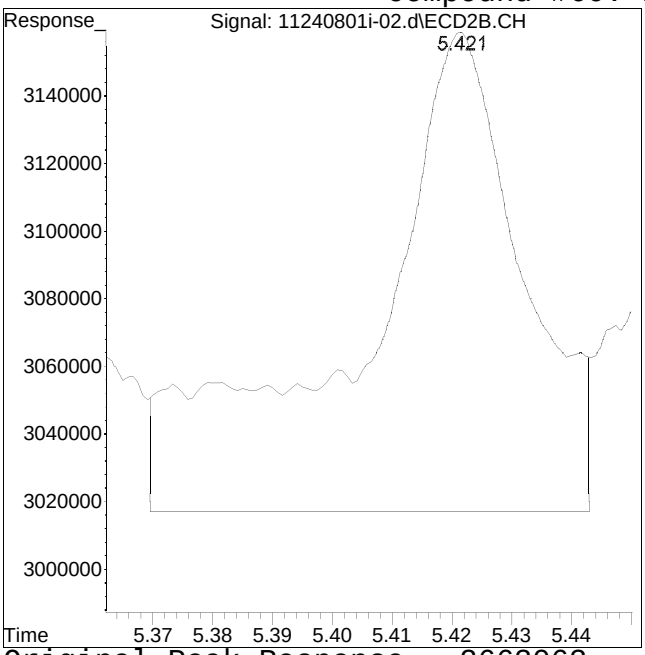


Original Peak Response = 7524321 Manual Peak Response = 1022766 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

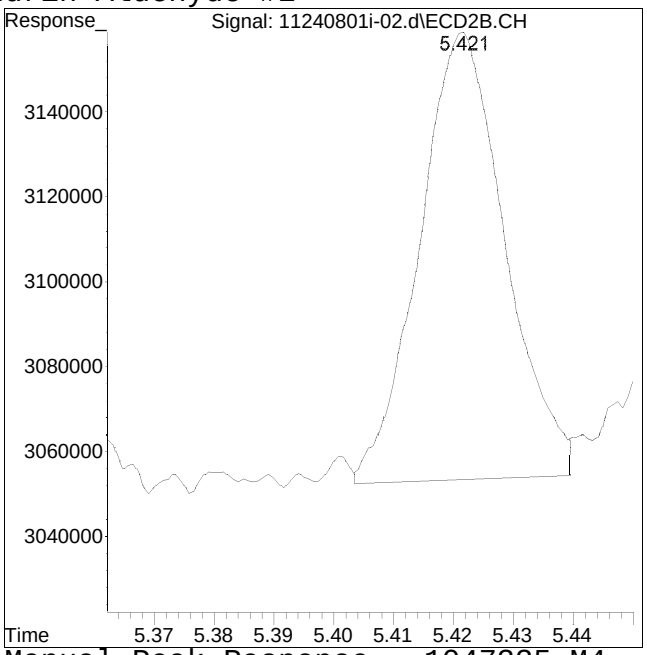
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 2663063



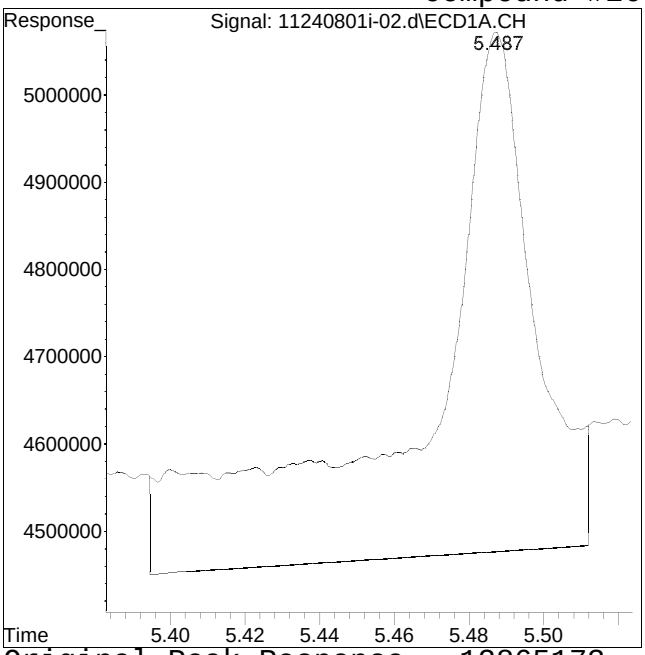
Manual Peak Response = 1047335 M4

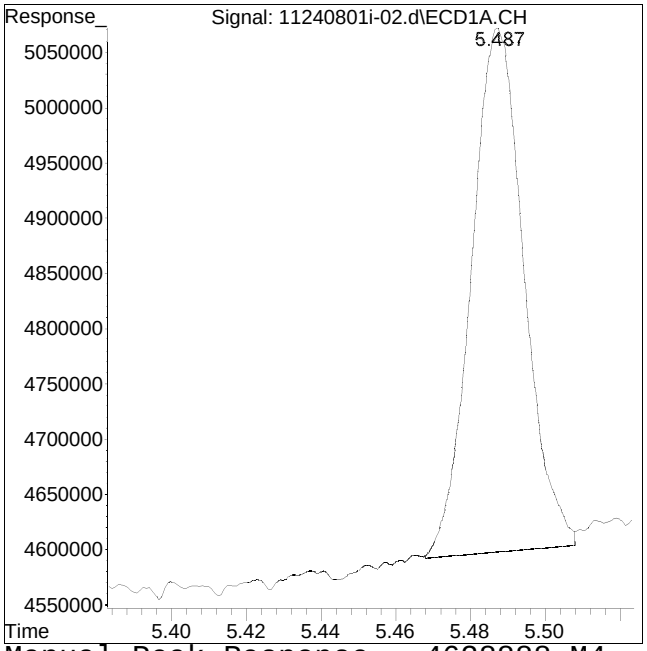
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #26: Endrin Ketone



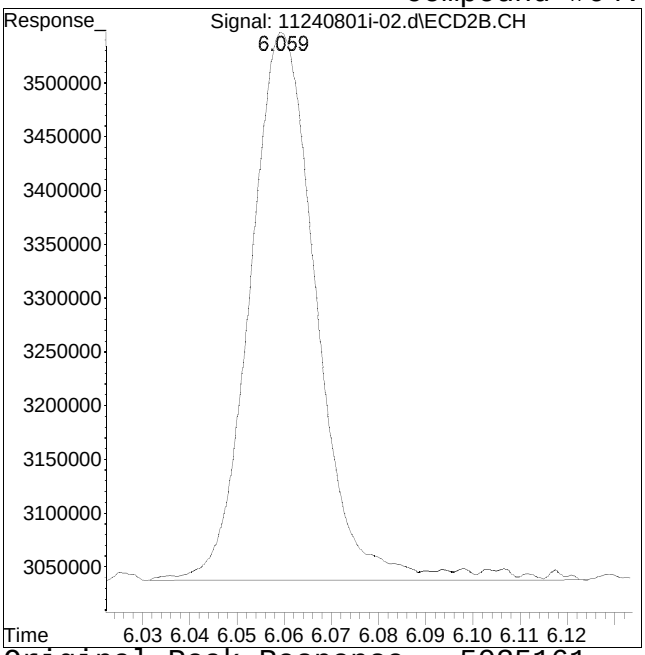


Original Peak Response = 12865173 Manual Peak Response = 4628888 M4
M4 = Poor automated baseline construction.

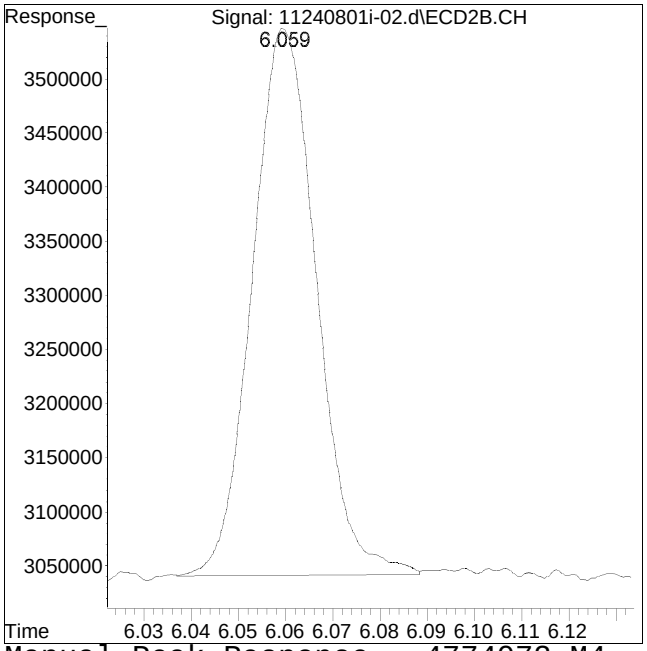
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-02.d
Date Inj'd : 8/1/2024 18:25
Sample : pem11240801i-01,42e,,pp 11
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:30 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 5035161



Manual Peak Response = 4774072 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:37
Operator : PEST11:ejl
Sample : il1pest,42e,,pp 11687 L0.0005
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:37:46 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:37:32 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	220.8E6	175.5E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	2.165	2.556	6465041	6237465	0.527M4	0.587M4
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:37
Operator : PEST11:ejl
Sample : il1pest,42e,,pp 11687 L0.0005
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:37:46 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:37:32 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

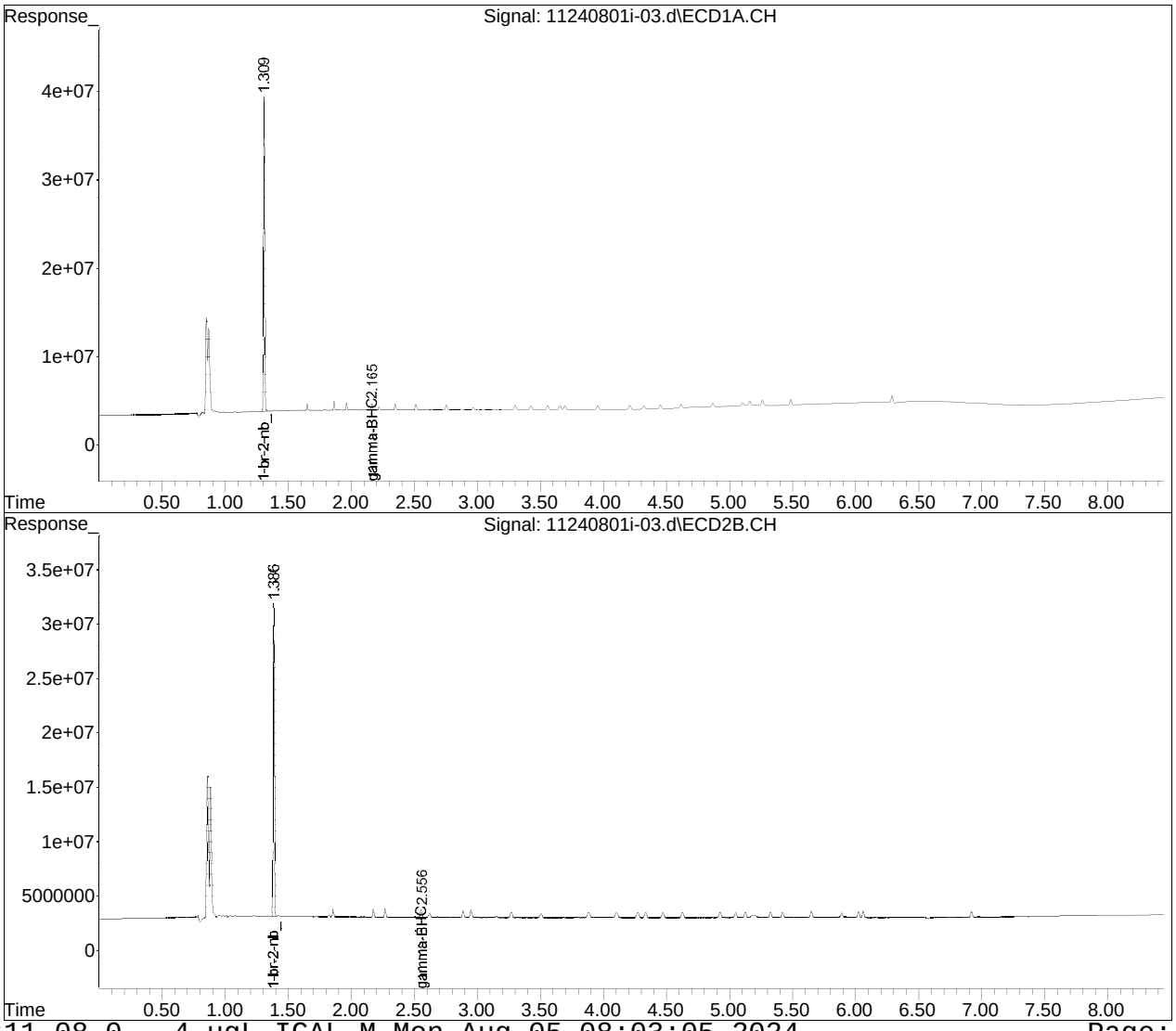
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:37
Operator : PEST11:ejl
Sample : il1pest,42e,,pp 11687 L0.0005
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:37:46 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:37:32 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

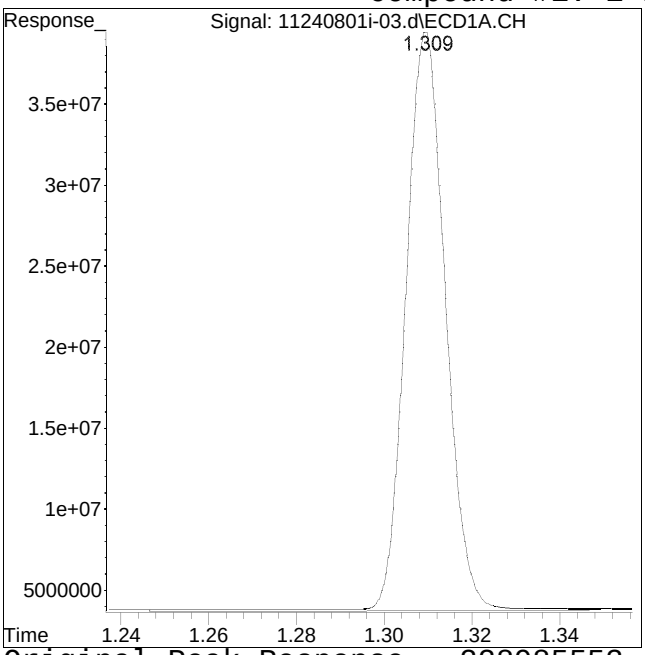


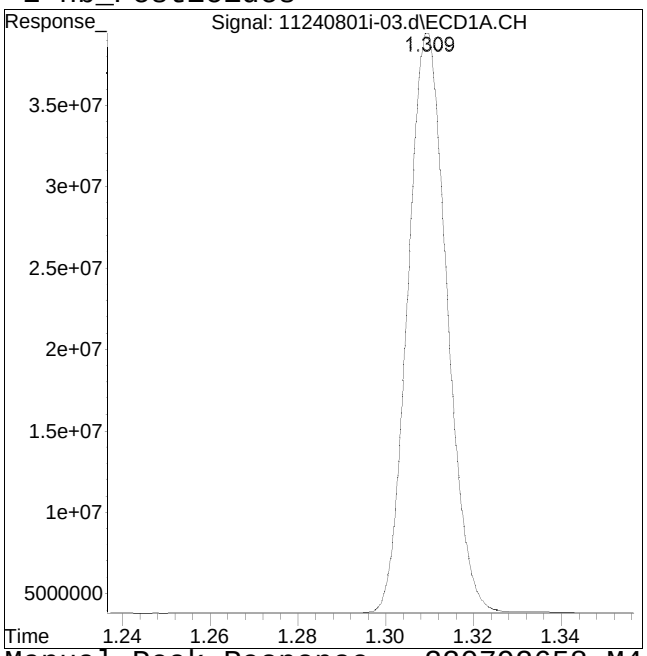
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-03.d
Date Inj'd : 8/1/2024 18:37
Sample : il1pest,42e,,pp 11687 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:37 am

Compound #1: 1-br-2-nb_Pesticides





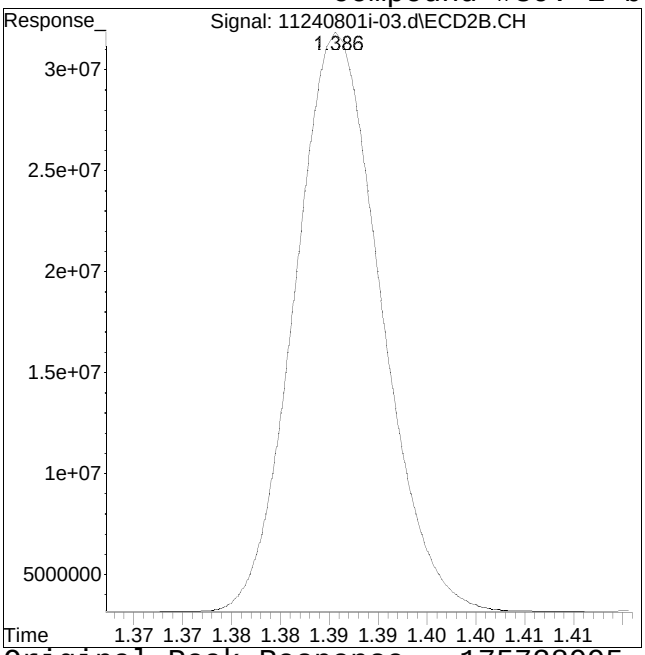
Original Peak Response = 228985553 Manual Peak Response = 220792658 M4
M4 = Poor automated baseline construction.

Manual Integration Report

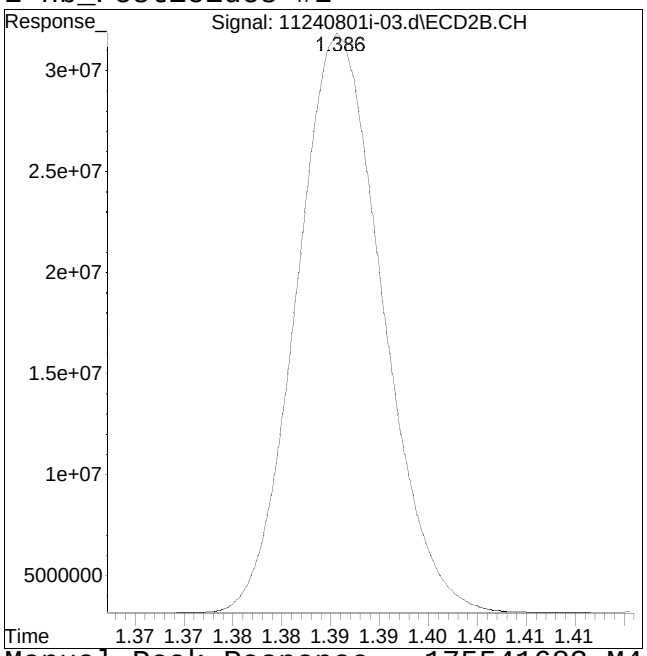
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-03.d
Date Inj'd : 8/1/2024 18:37
Sample : il1pest,42e,,pp 11687 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:37 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 175738995



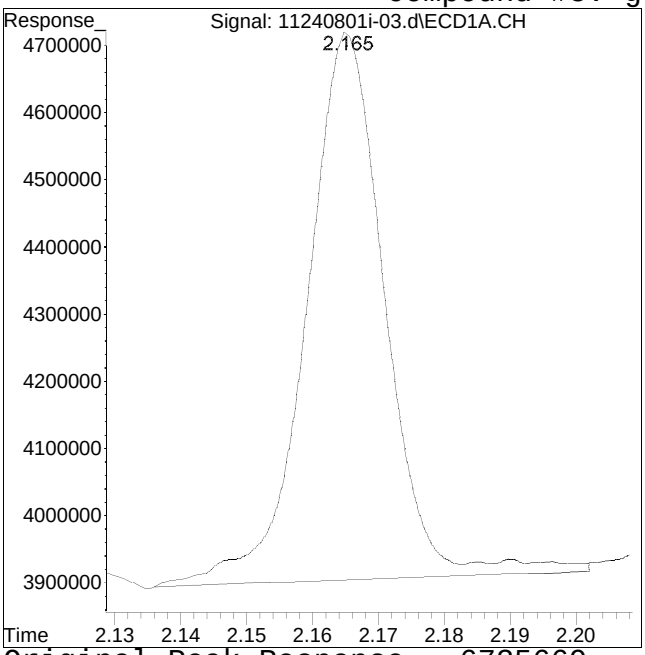
Manual Peak Response = 175541683 M4

M4 = Poor automated baseline construction.

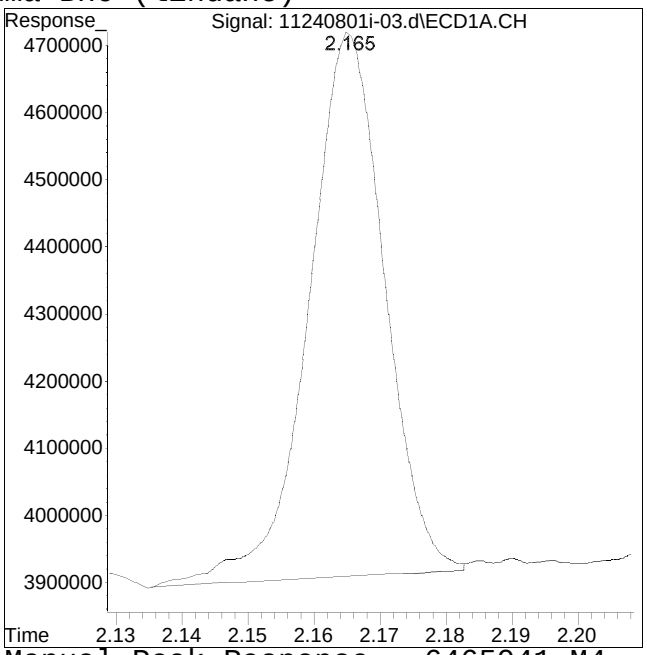
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-03.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:37 Instrument : Pest 11
Sample : il1pest,42e,,pp 11687 L0.0Quant Date : 8/2/2024 11:37 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 6735669



Manual Peak Response = 6465041 M4

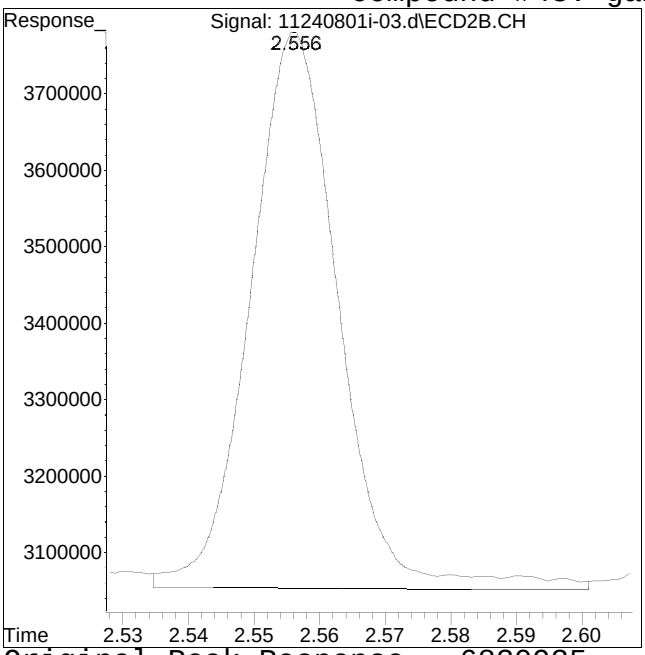
M4 = Poor automated baseline construction.

Manual Integration Report

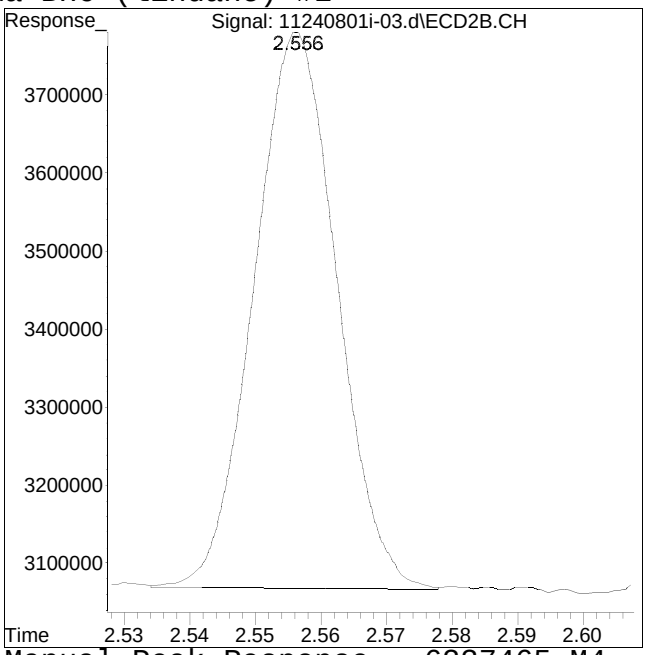
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-03.d
Date Inj'd : 8/1/2024 18:37
Sample : il1pest,42e,,pp 11687 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:37 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 6830935



Manual Peak Response = 6237465 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:49
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:23:45 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:23:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.385	236.2E6	189.9E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.651	1.857	10103750	9166304	1.033M4	1.095M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.07%#	2.19%#
27) s	Decachlorobi	6.287	6.916	12797286	9509129	1.189M4	1.208M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.38%#	2.42%#
	Target Compounds						
3) t	Hexachlorobe	1.864	2.177	14522616	11025327	1.106M4	1.197M3
4) t	alpha-BHC	1.963	2.270	12213270	11833439	0.873M3	0.957M4
5) t	gamma-BHC (l	2.165	2.555	12327860	11786896	0.933M4	1.029M4
6) t	beta-BHC	2.221	2.622	6284813	6484776	1.068M4	1.227
7) t	delta-BHC	2.349	2.888	11794485	11613870	0.898M4	1.004M4
8) t	Heptachlor	2.512	2.951	12406198	13569126	0.994M4	1.135M4
9) t	Aldrin	2.755	3.270	11094967	11481671	0.947M3	1.060M4
10) t	Alachlor	2.875	3.152	2283039	2193840	1.050M4	1.239M3
11) t	Chlorpyrifos	2.968	3.506	6350609	8645243	1.140M4	1.309M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:49
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:23:45 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:23:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.883	11159206	12274465	0.996M4	1.153M4
13)	t	gamma-Chlord	3.424	4.104	10188540	11268731	1.002M4	1.150M3
14)	t	alpha-Chlord	3.558	4.274	11264127	12463945	0.978M4	1.154M4
15)	t	4,4'-DDE	3.655	4.472	10456227	10459964	0.921M4	1.029M4
16)	t	Endosulfan I	3.694	4.335	10476077	11507441	0.993M4	1.157M4
17)	t	Dieldrin	3.954	4.627	10104411	10753372	0.936M4	1.075M4
18)	t	Endrin	4.208	4.925	10369621	10955743	0.947M4	1.080M3
19)	t	4,4'-DDD	4.320	5.049	8095840	8492171	0.916M4	1.035M3
20)	t	Endosulfan I	4.450	5.125	9763069	10359858	0.980M4	1.141M4
21)	t	4,4'-DDT	4.615	5.326	9158338	9826532	0.906M4	1.039M4
22)	t	Endrin Aldeh	4.868	5.421	8559160	8781210	1.025M3	1.158M4
23)	t	Methoxychlor	5.103	5.890	6198489	6445389	1.124M3	1.236M4
24)	t	Mirex	5.159	6.023	10519898	10310168	1.188M3	1.296M4
25)	t	Endosulfan S	5.260	5.649	10237086	10496074	1.083M3	1.175M4
26)	t	Endrin Keton	5.486	6.060	11019089	10468738	0.984M4	1.106M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:49
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:23:45 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:23:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

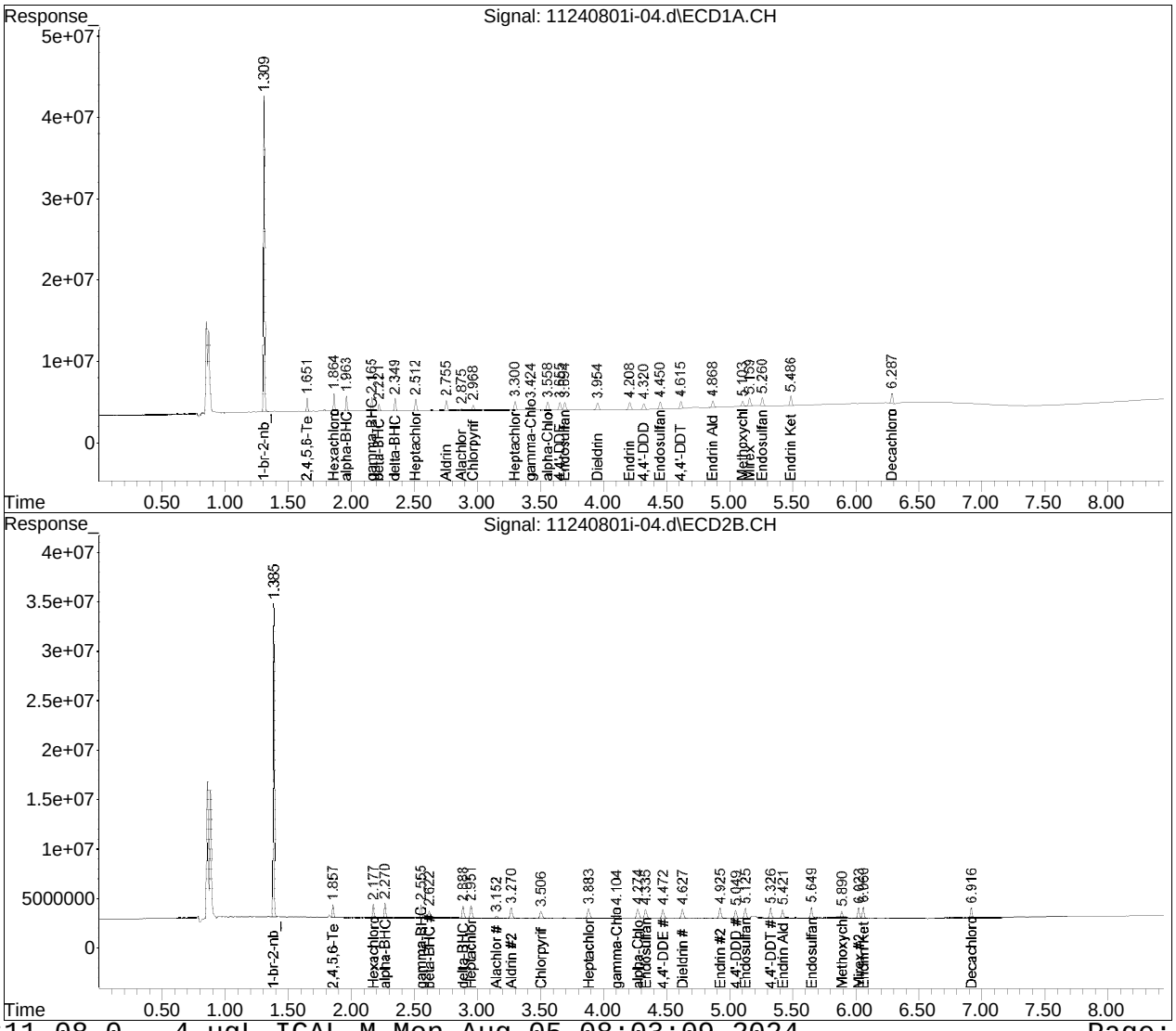
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:49
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:23:45 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:23:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

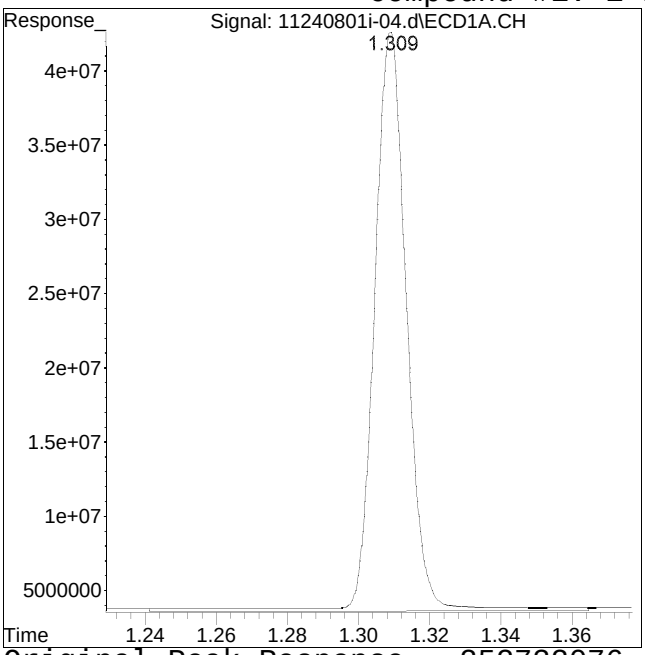


Manual Integration Report

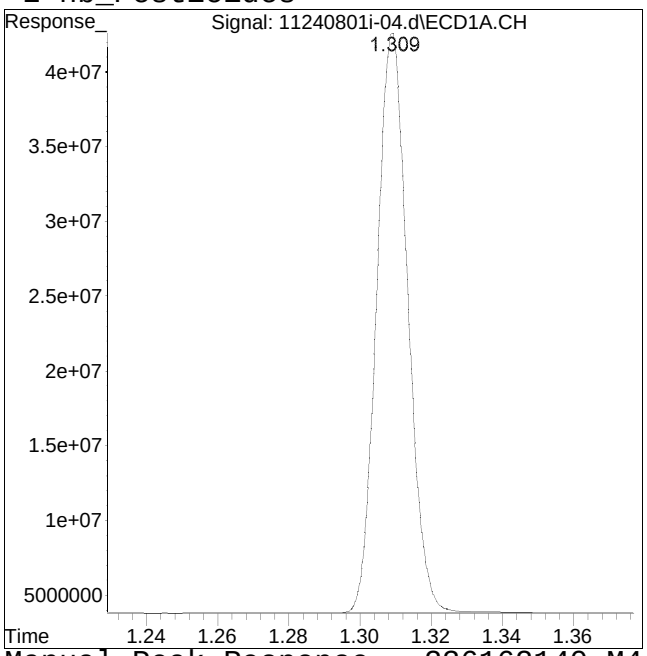
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 252732076



Manual Peak Response = 236162140 M4

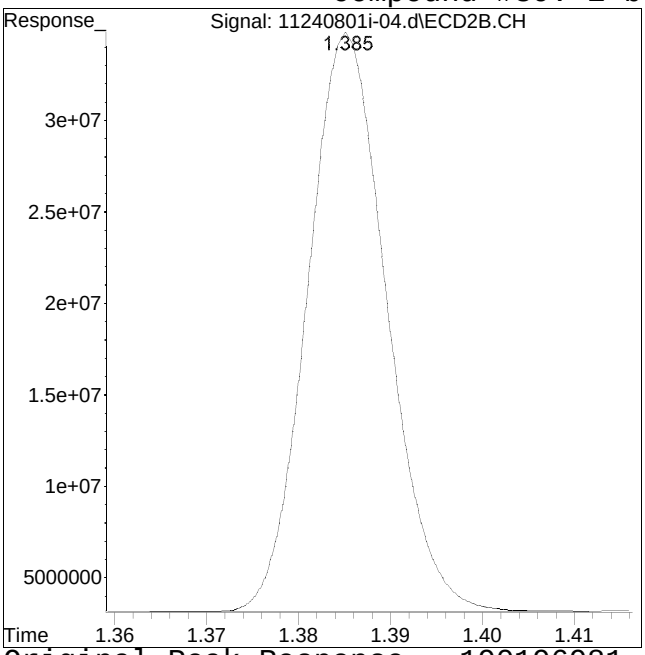
M4 = Poor automated baseline construction.

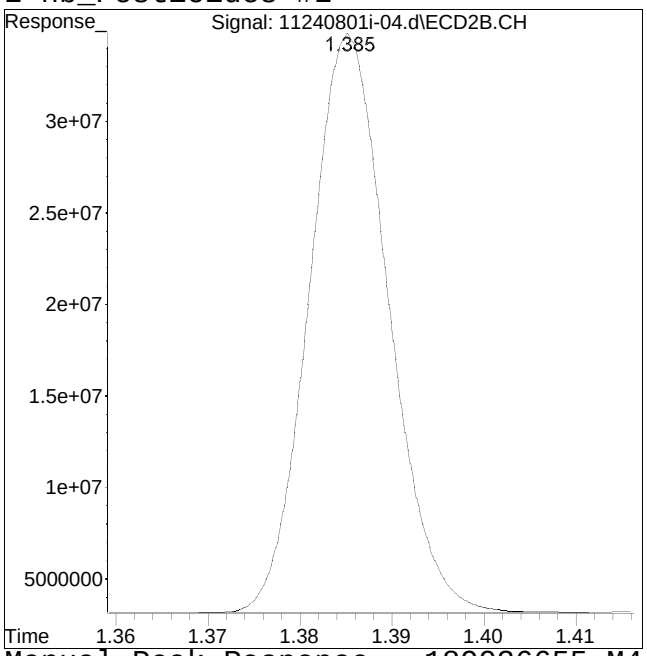
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #39: 1-br-2-nb_Pesticides #2





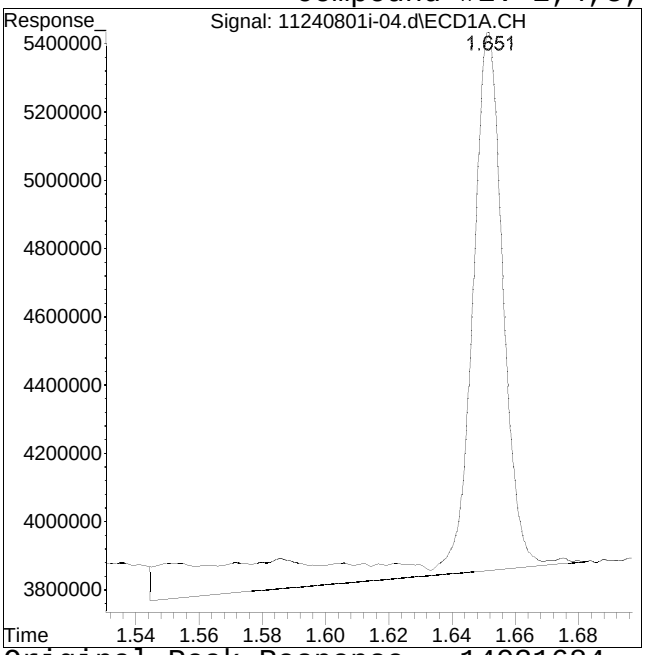
Original Peak Response = 190196981 Manual Peak Response = 189936655 M4
M4 = Poor automated baseline construction.

Manual Integration Report

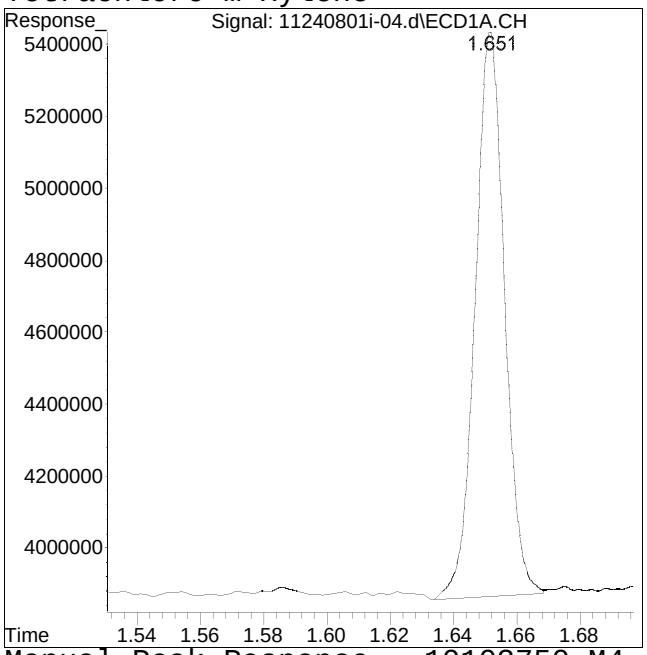
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 14031684



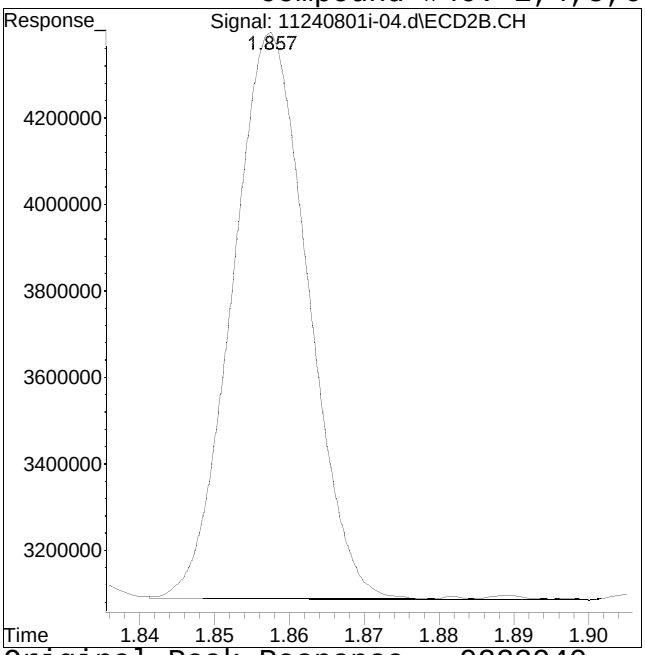
Manual Peak Response = 10103750 M4

M4 = Poor automated baseline construction.

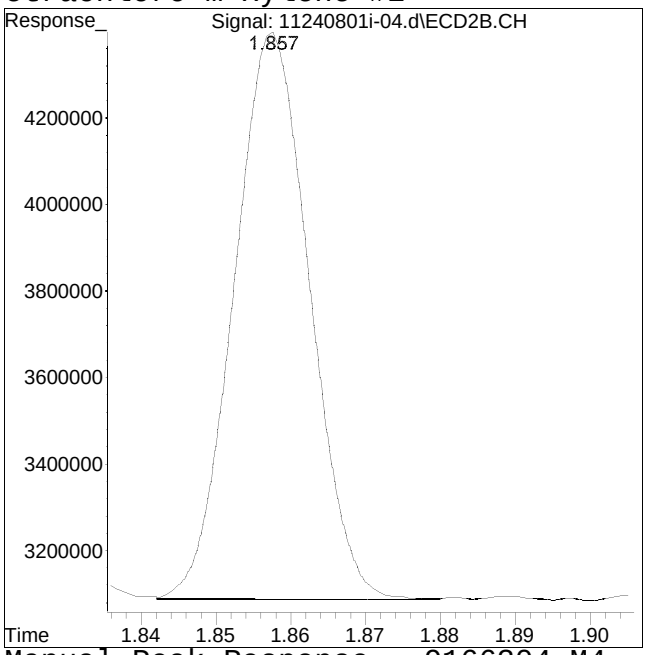
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 9223940



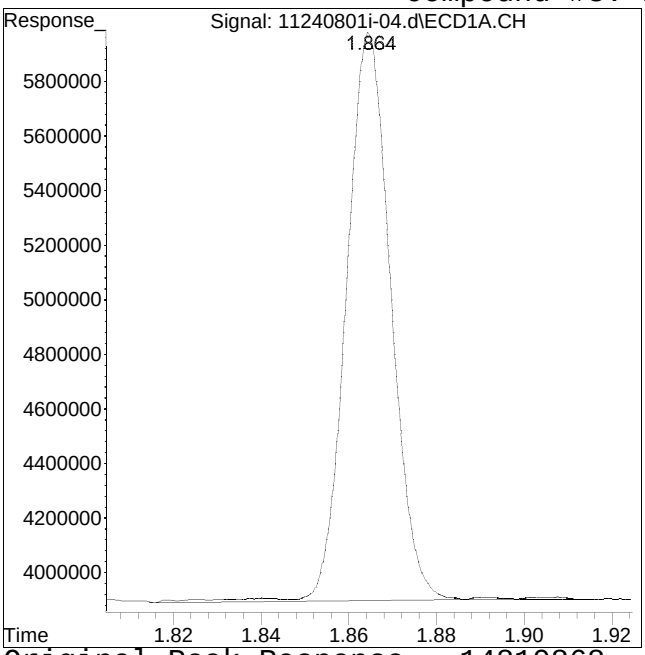
Manual Peak Response = 9166304 M4

M4 = Poor automated baseline construction.

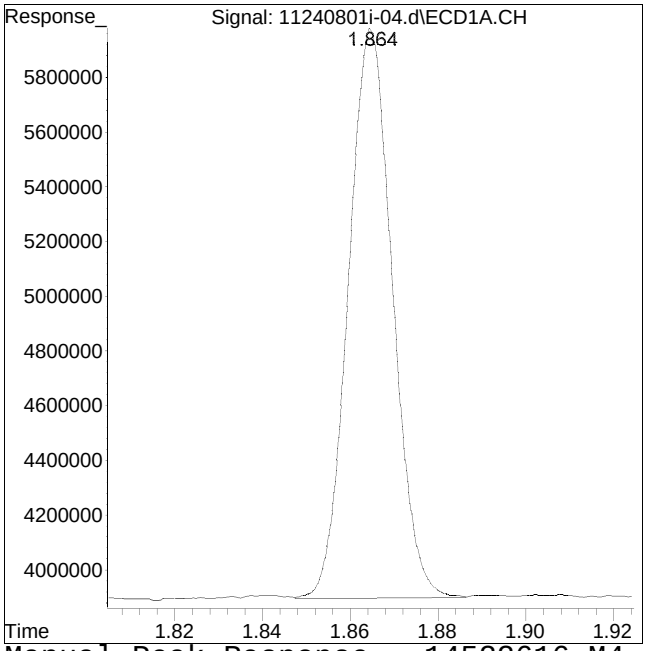
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #3: Hexachlorobenzene



Original Peak Response = 14810868



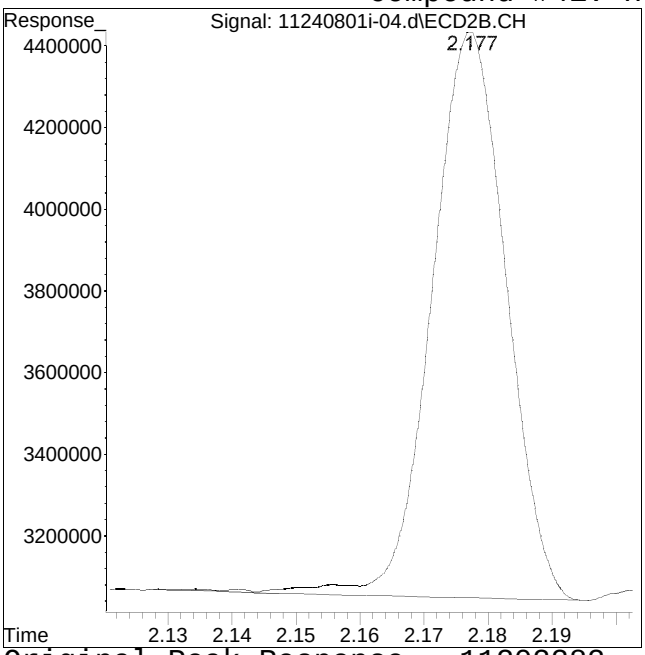
Manual Peak Response = 14522616 M4
M4 = Poor automated baseline construction.

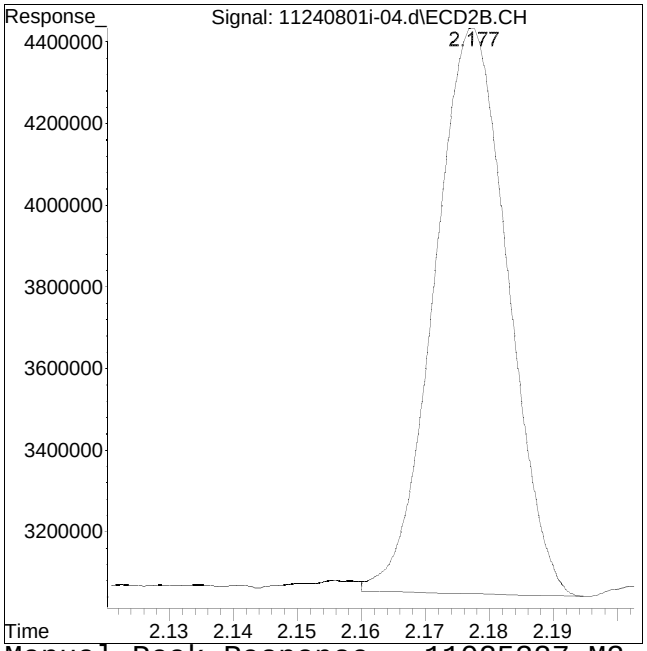
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #41: Hexachlorobenzene #2





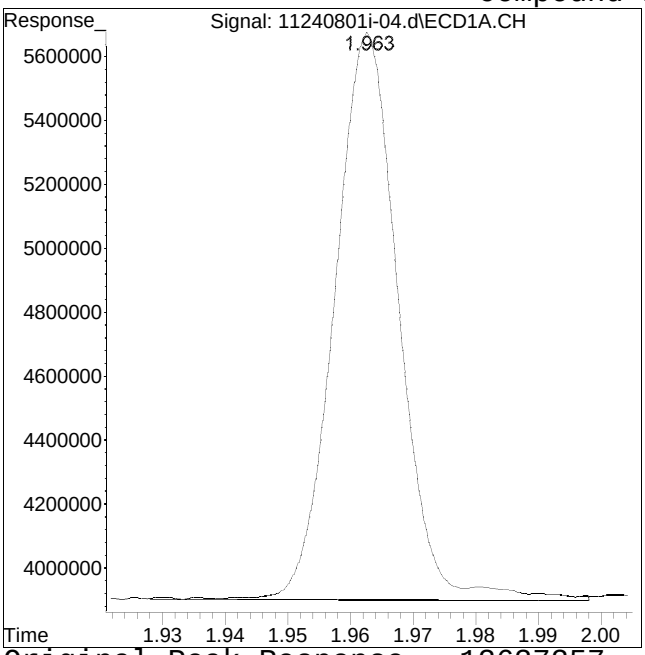
Original Peak Response = 11202282 Manual Peak Response = 11025327 M3

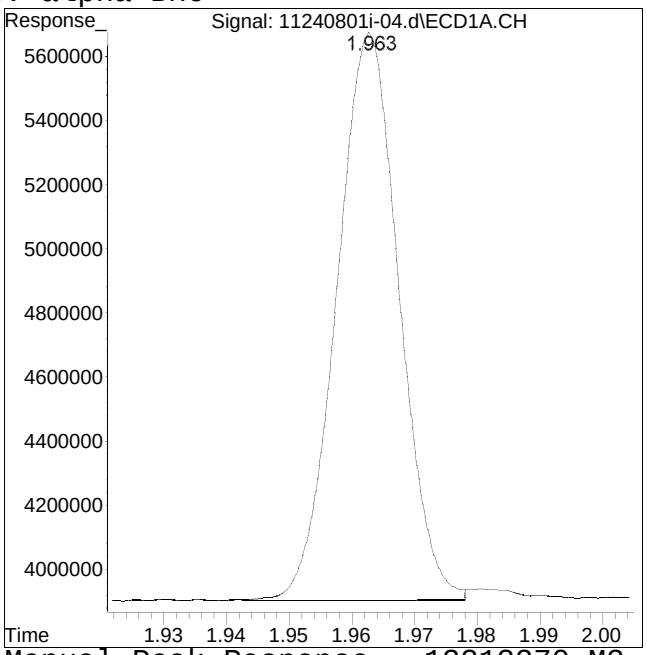
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #4: alpha-BHC



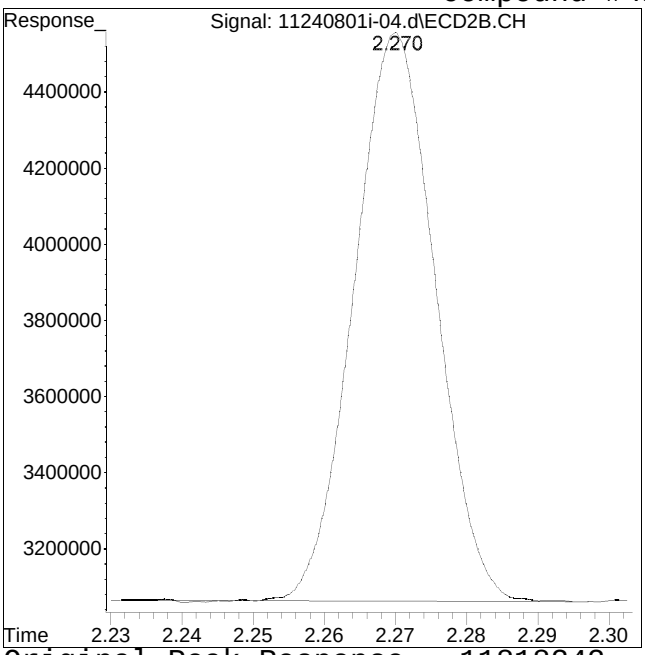


Original Peak Response = 12637257 Manual Peak Response = 12213270 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

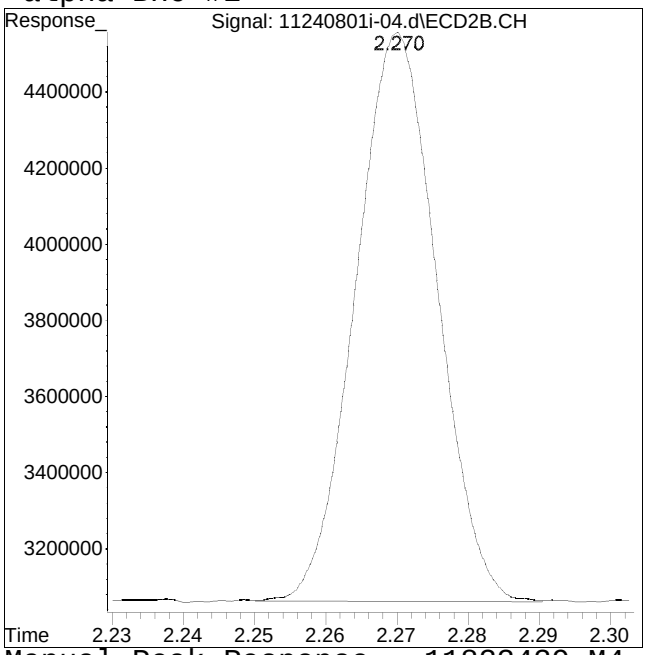
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #42: alpha-BHC #2



Original Peak Response = 11818242



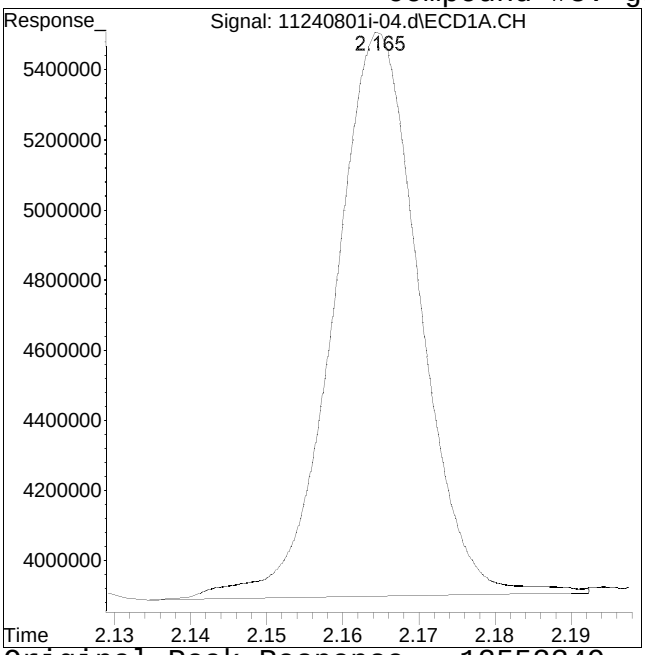
Manual Peak Response = 11833439 M4

M4 = Poor automated baseline construction.

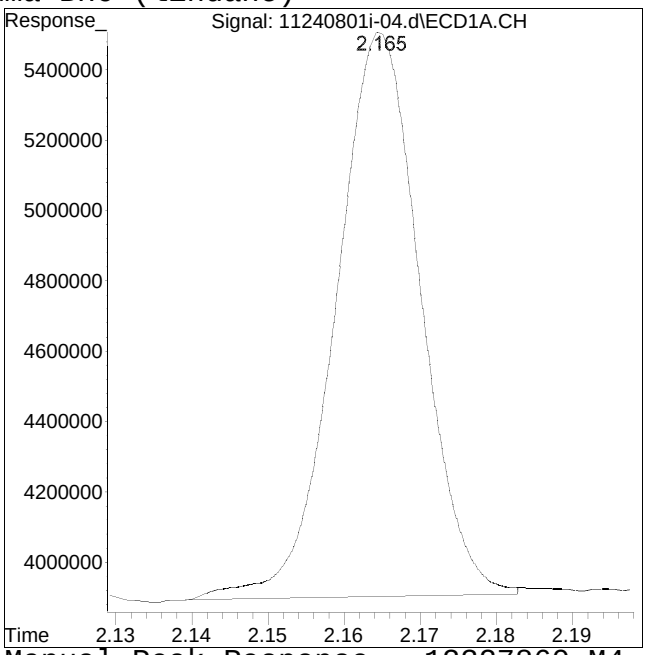
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 12552349

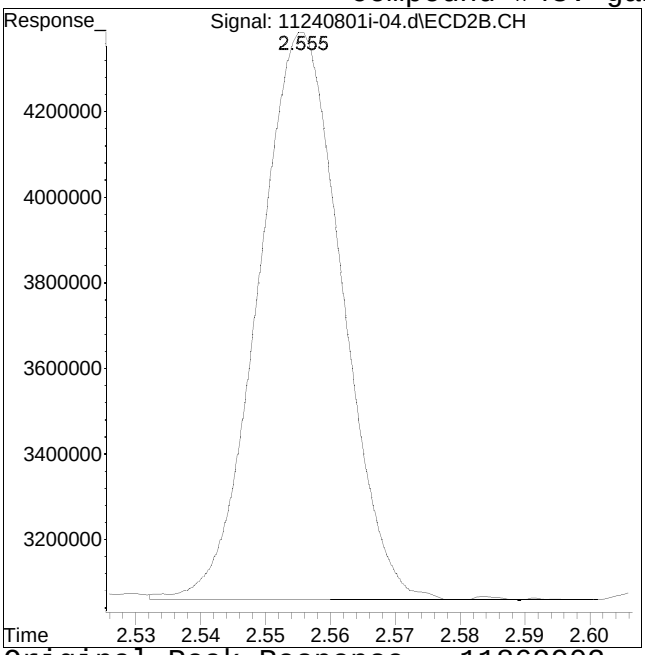


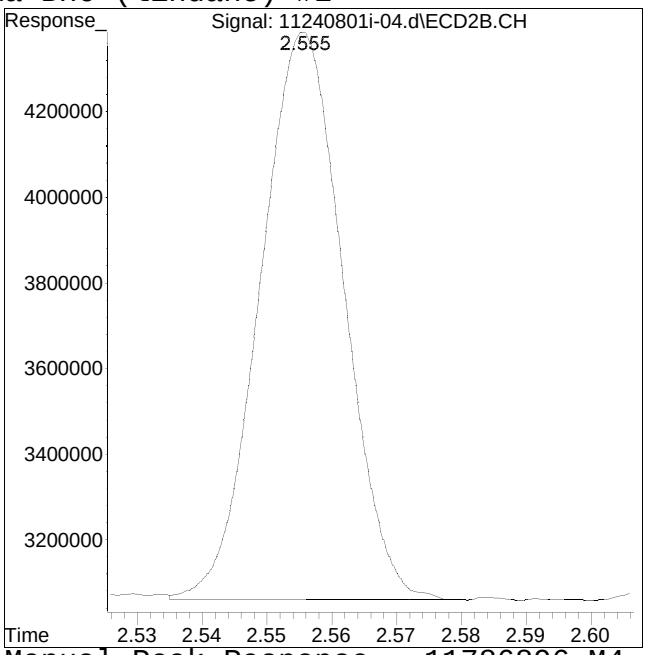
Manual Peak Response = 12327860 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #43: gamma-BHC (lindane) #2





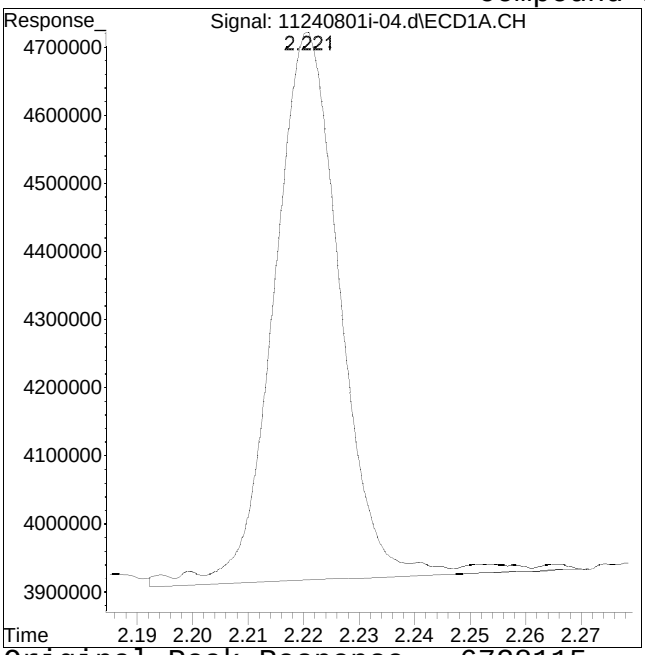
Original Peak Response = 11869902 Manual Peak Response = 11786896 M4
M4 = Poor automated baseline construction.

Manual Integration Report

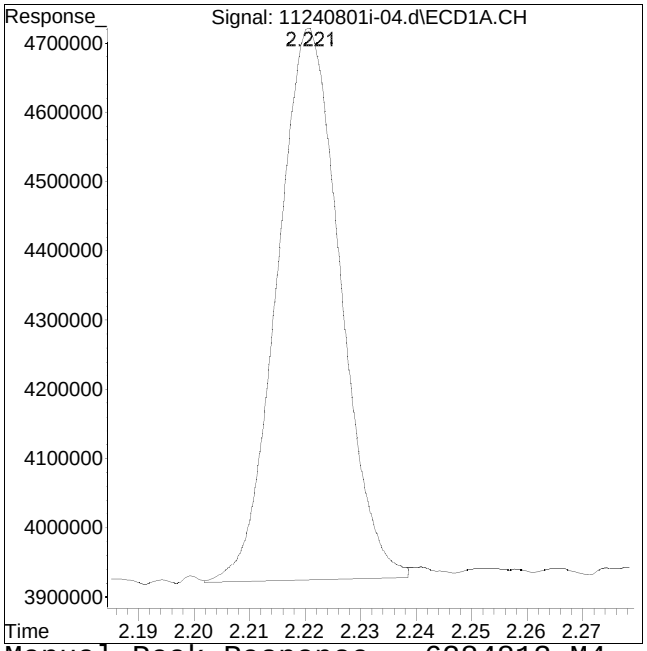
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #6: beta-BHC



Original Peak Response = 6728115



Manual Peak Response = 6284813 M4

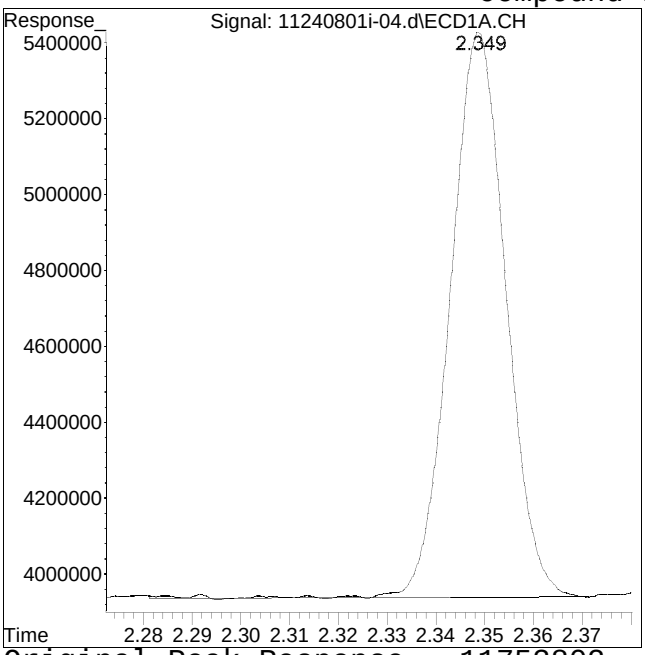
M4 = Poor automated baseline construction.

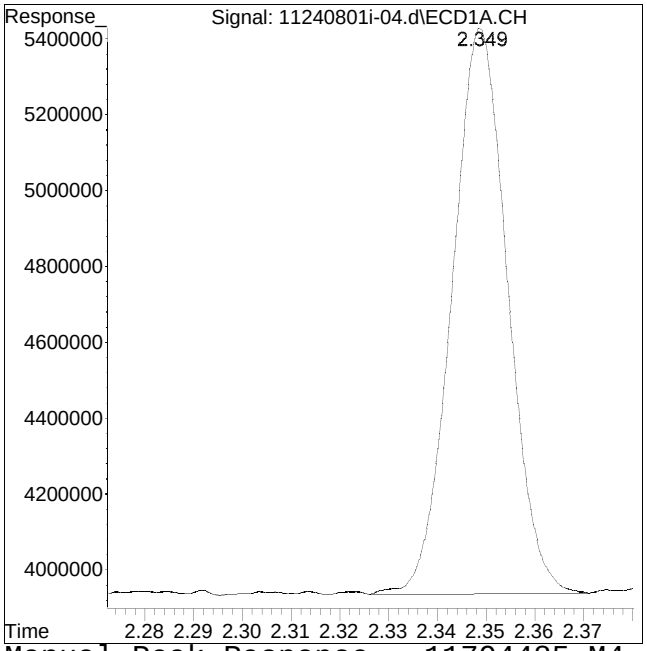
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #7: delta-BHC



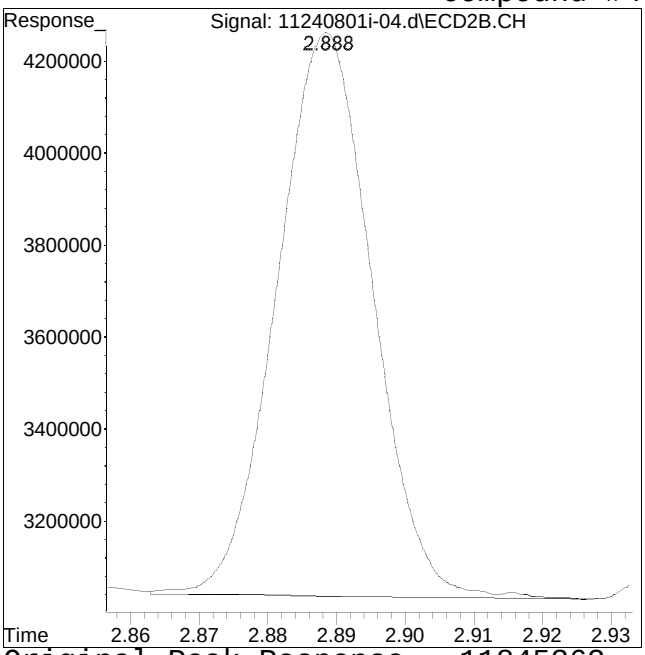


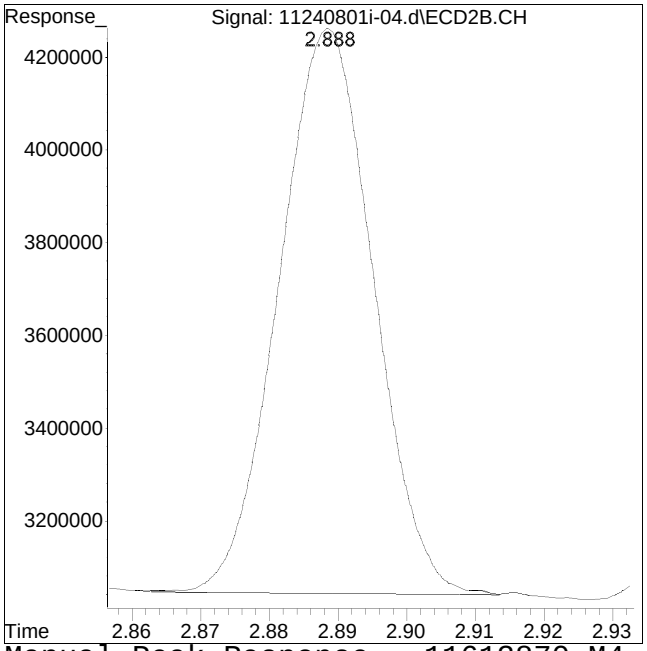
Original Peak Response = 11753802 Manual Peak Response = 11794485 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #45: delta-BHC #2



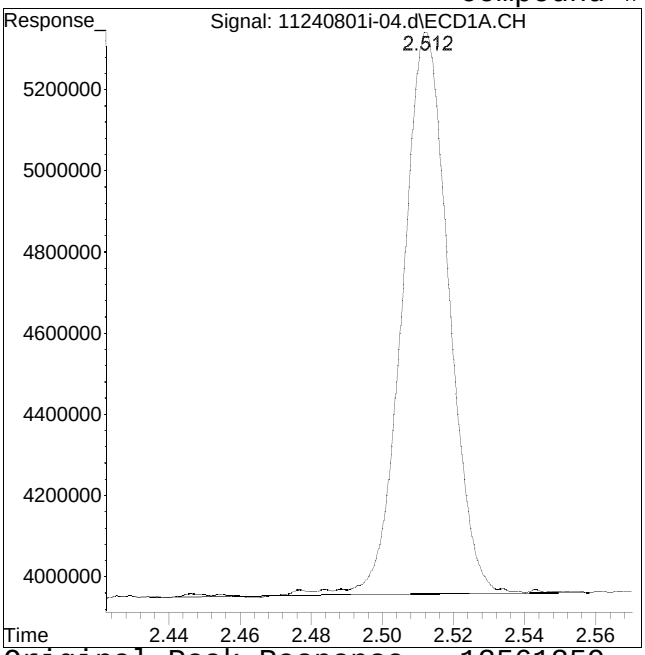


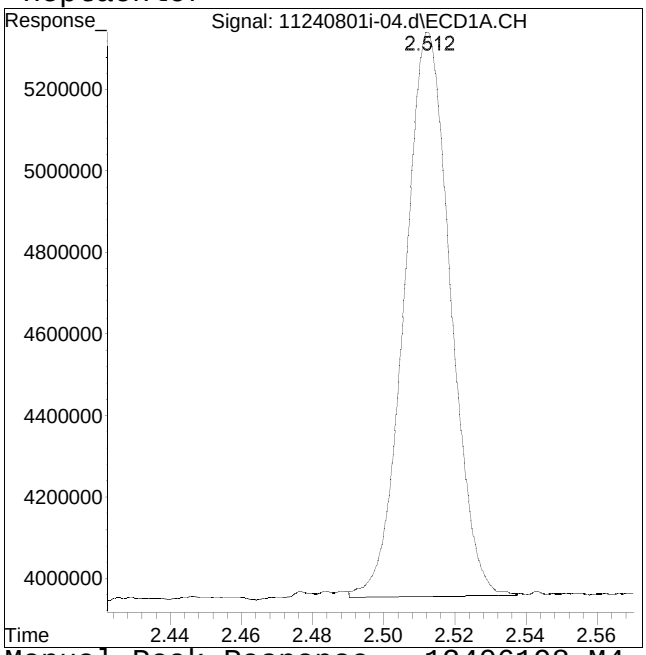
Original Peak Response = 11845362 Manual Peak Response = 11613870 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #8: Heptachlor



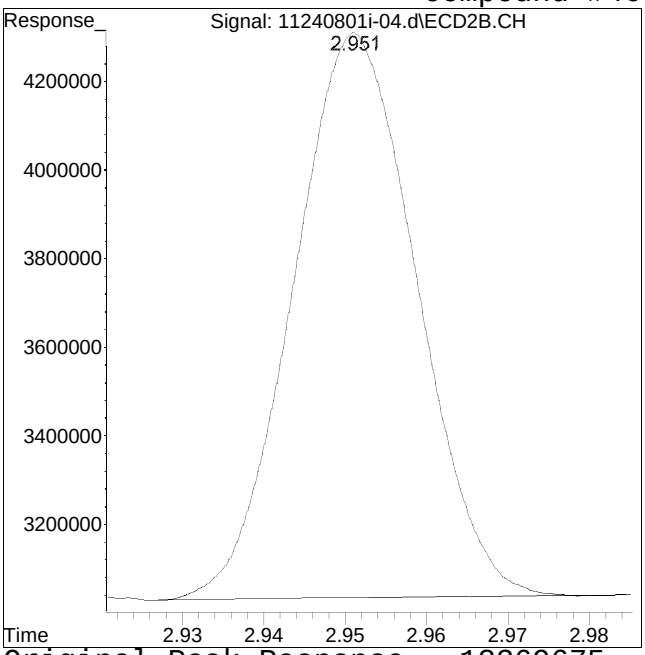


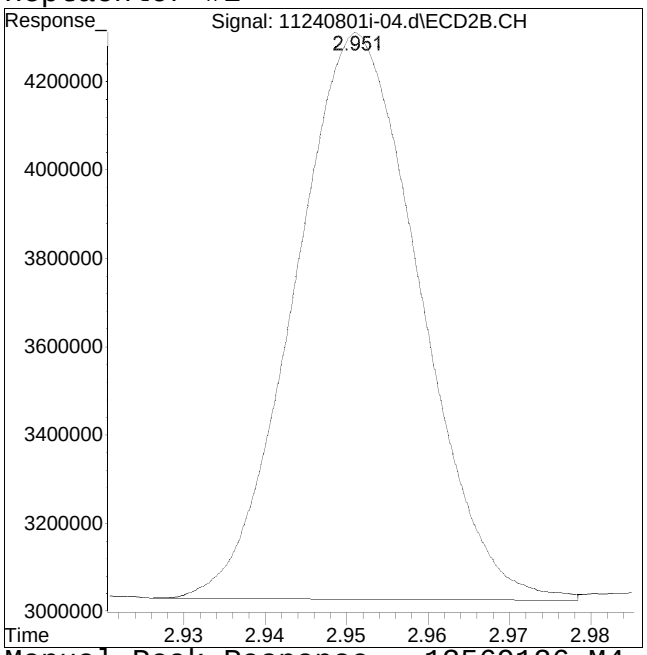
Original Peak Response = 12561259 Manual Peak Response = 12406198 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #46: Heptachlor #2



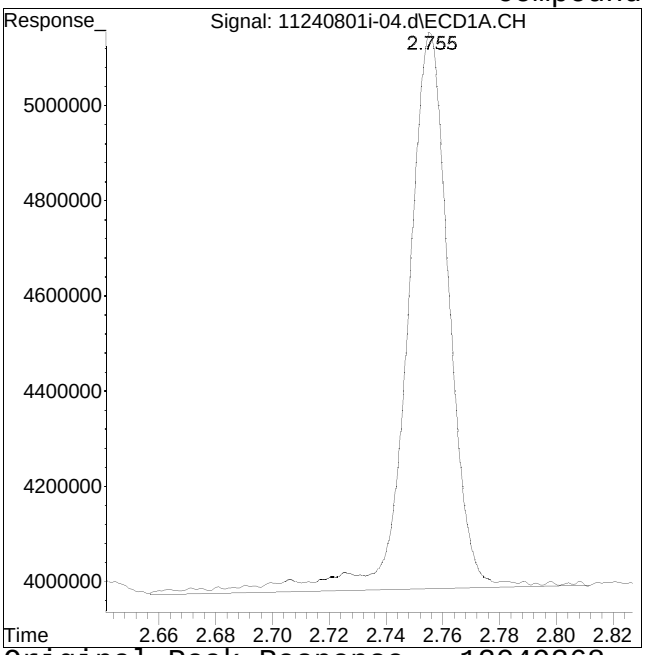


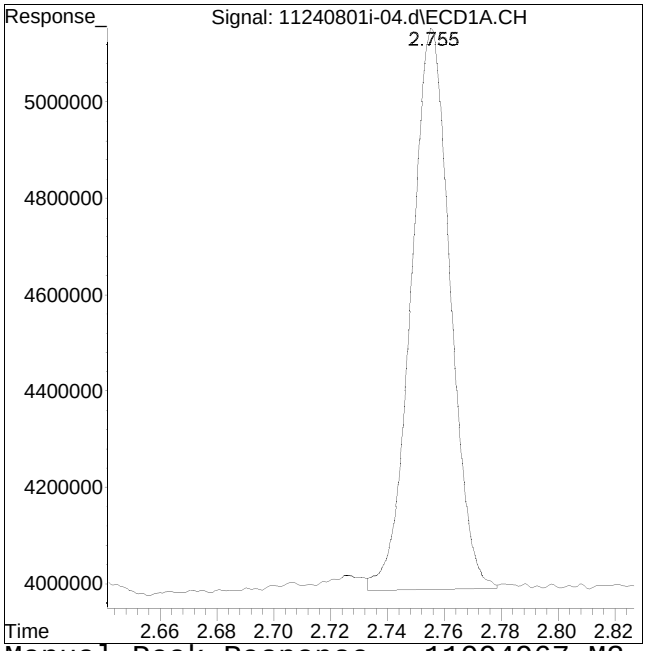
Original Peak Response = 13369675 Manual Peak Response = 13569126 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #9: Aldrin



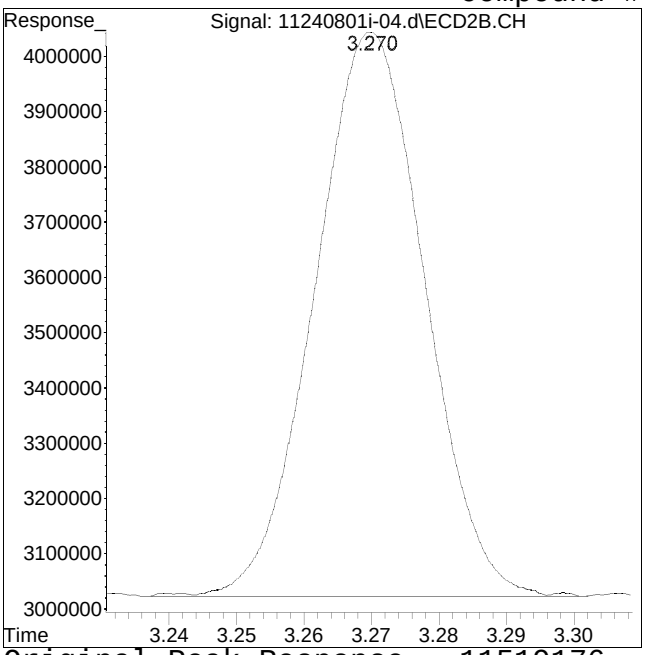


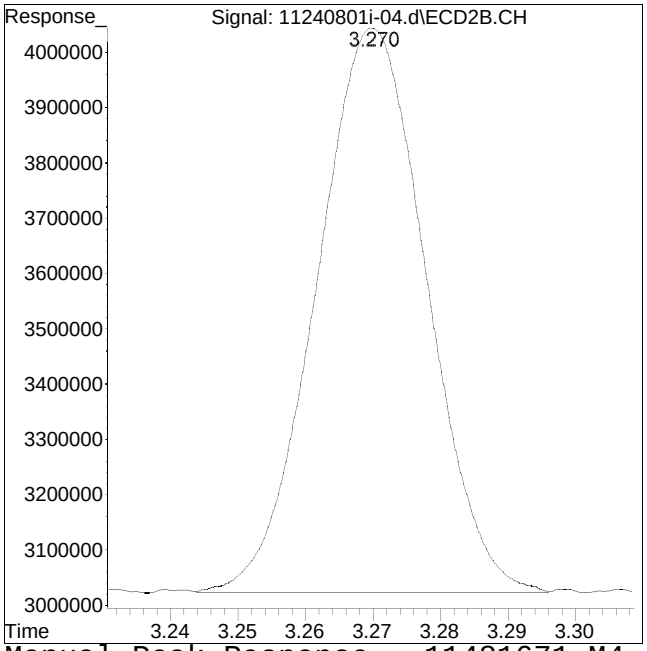
Original Peak Response = 12049368 Manual Peak Response = 11094967 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #47: Aldrin #2





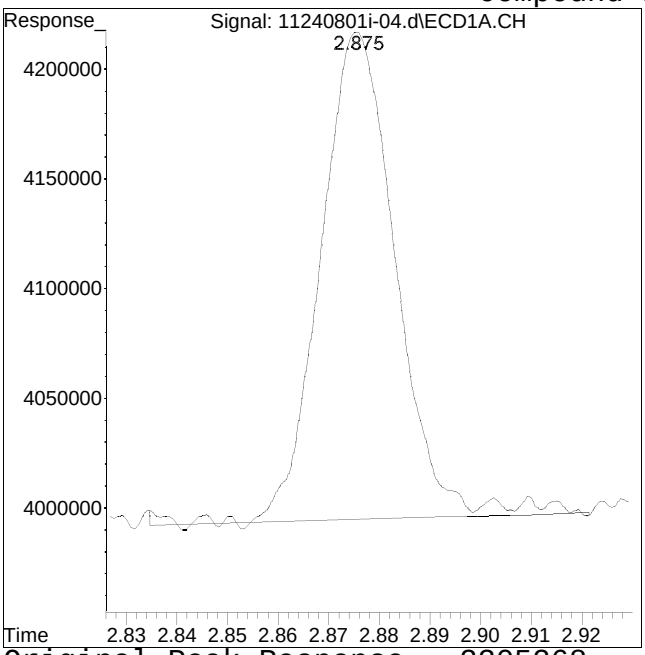
Original Peak Response = 11519176 Manual Peak Response = 11481671 M4
M4 = Poor automated baseline construction.

Manual Integration Report

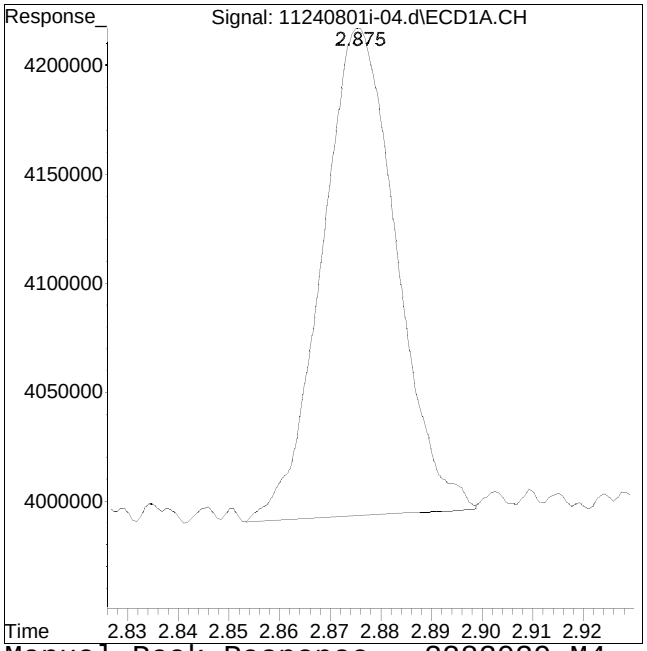
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #10: Alachlor



Original Peak Response = 2305268



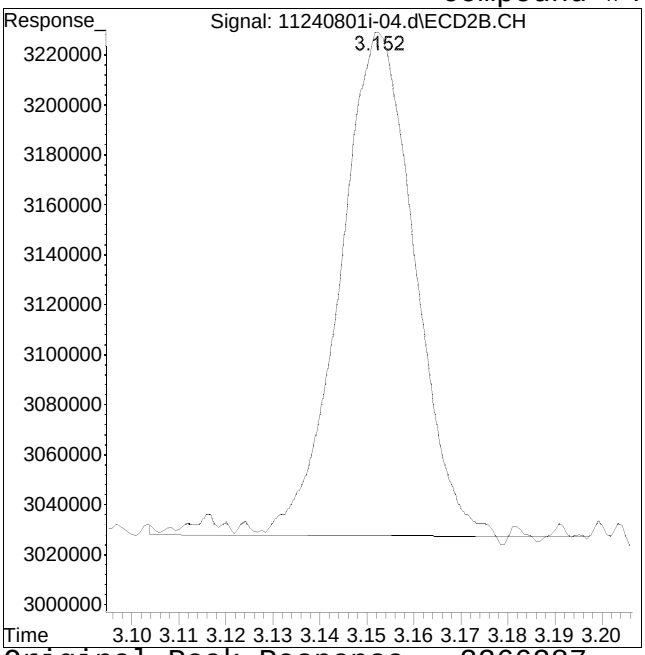
Manual Peak Response = 2283039 M4

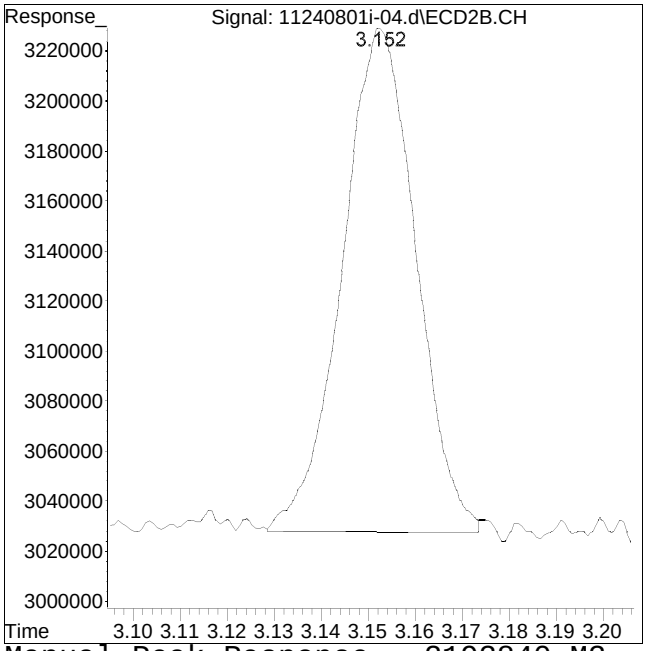
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #48: Alachlor #2





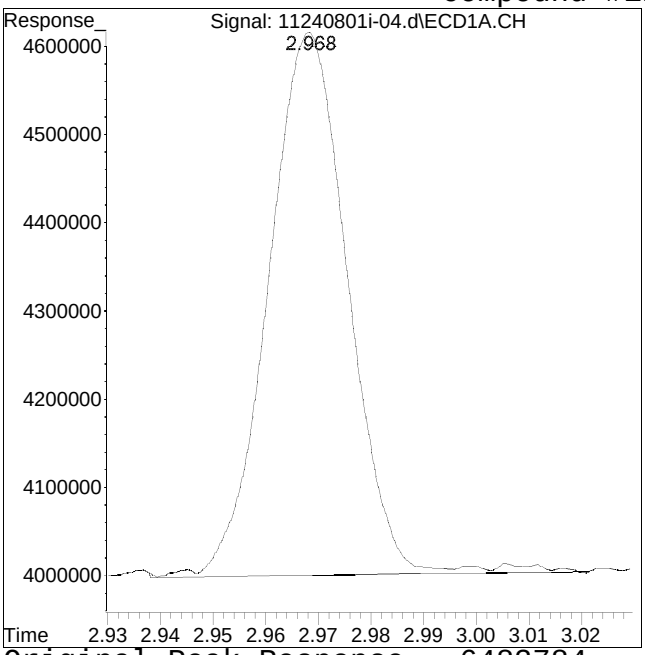
Original Peak Response = 2266287 Manual Peak Response = 2193840 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

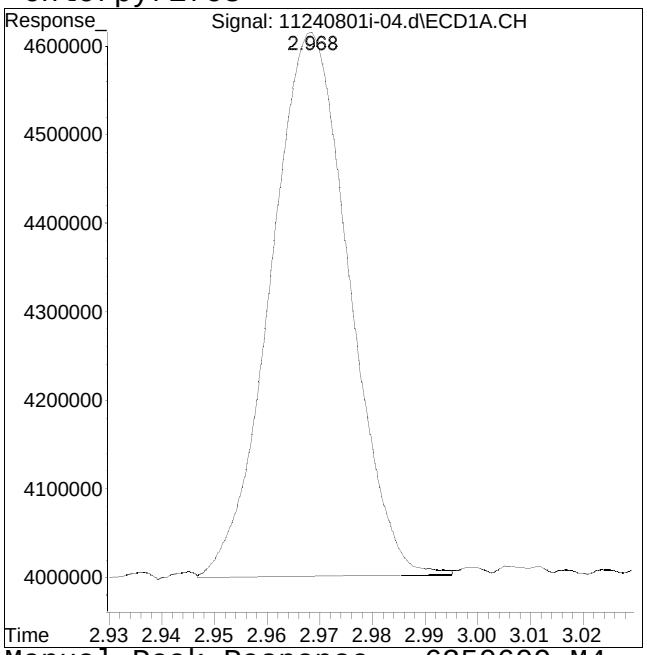
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #11: Chlorpyrifos



Original Peak Response = 6483784



Manual Peak Response = 6350609 M4

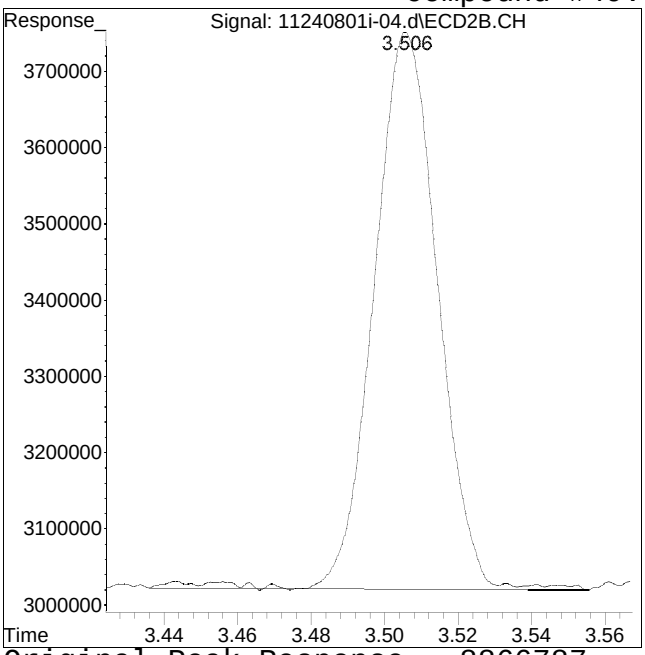
M4 = Poor automated baseline construction.

Manual Integration Report

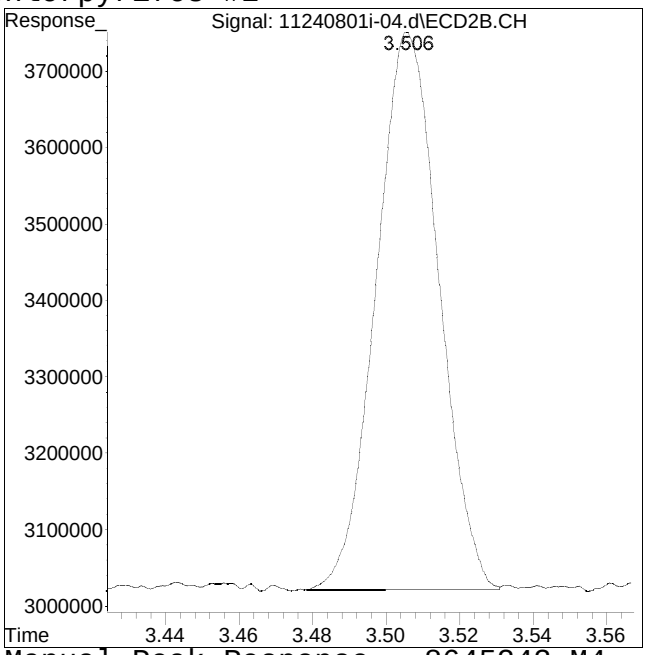
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 8866787



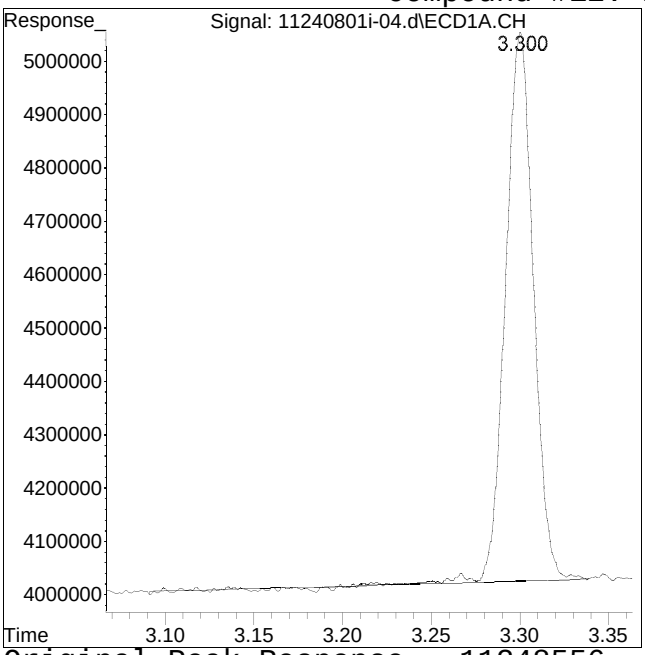
Manual Peak Response = 8645243 M4

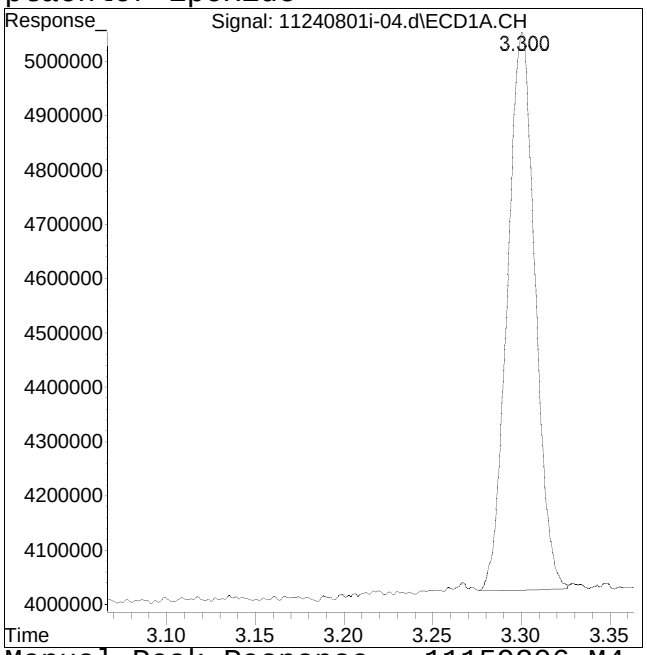
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #12: Heptachlor Epoxide



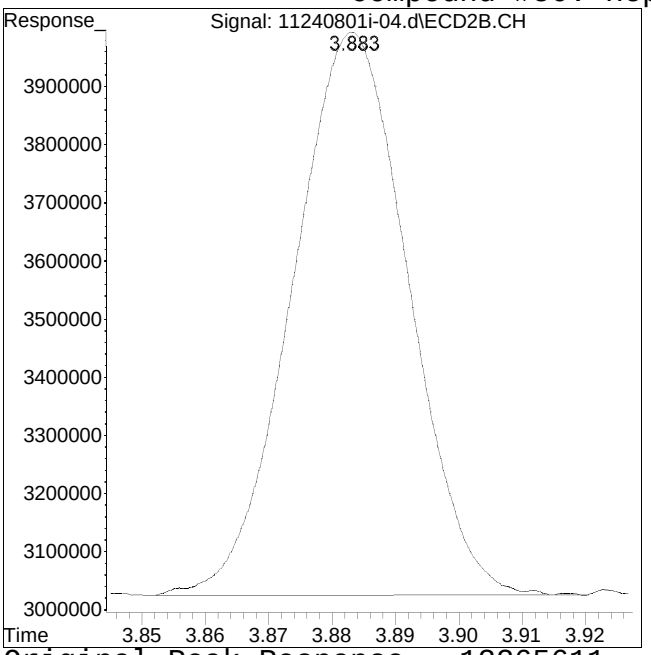


Original Peak Response = 11248556 Manual Peak Response = 11159206 M4
M4 = Poor automated baseline construction.

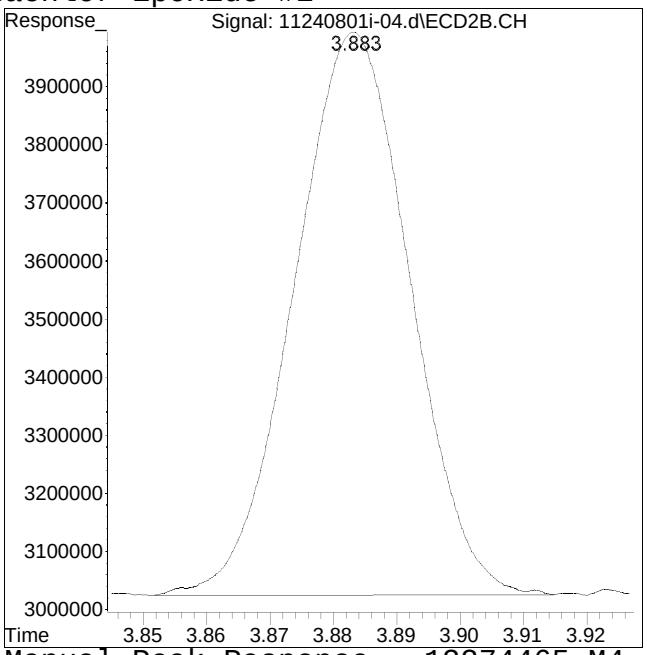
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 12265611



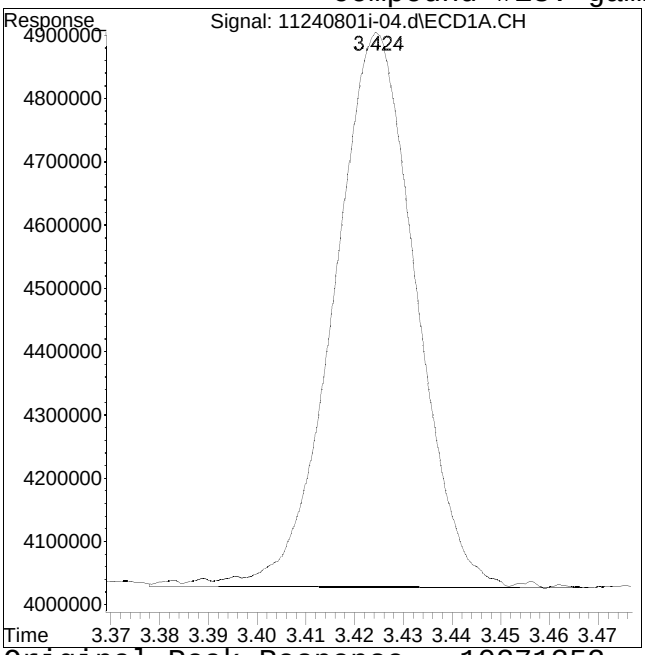
Manual Peak Response = 12274465 M4

M4 = Poor automated baseline construction.

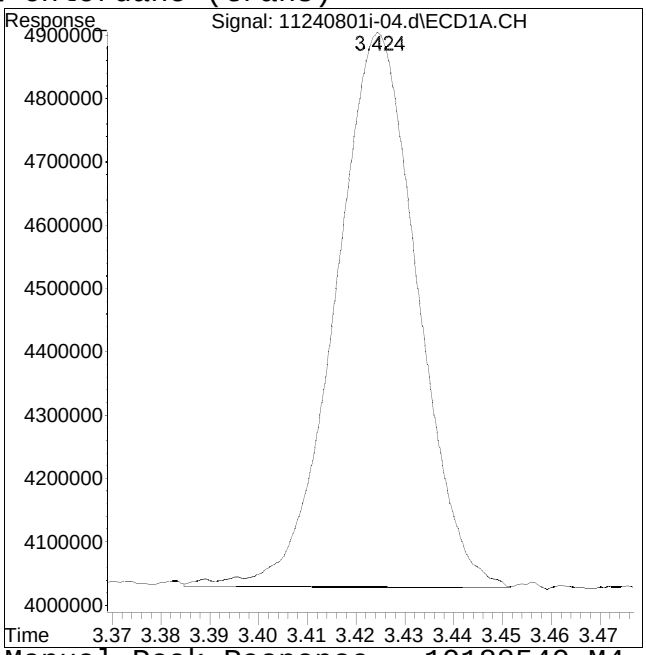
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 10271352



Manual Peak Response = 10188540 M4

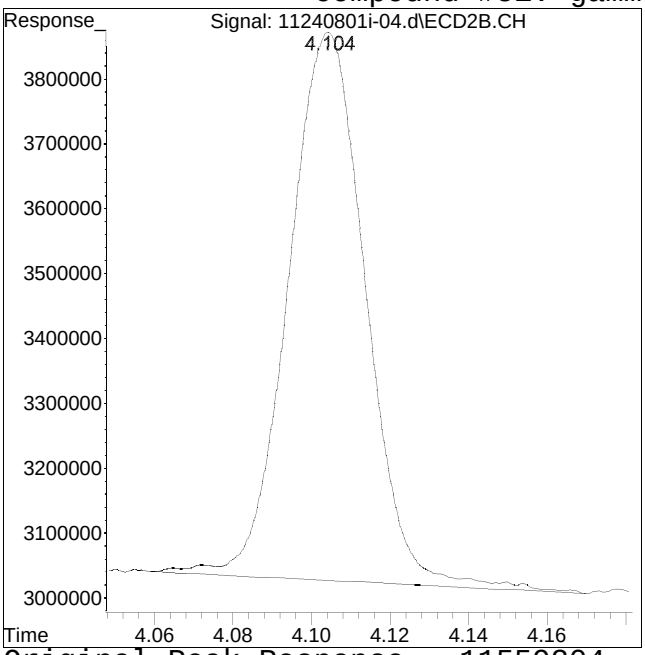
M4 = Poor automated baseline construction.

Manual Integration Report

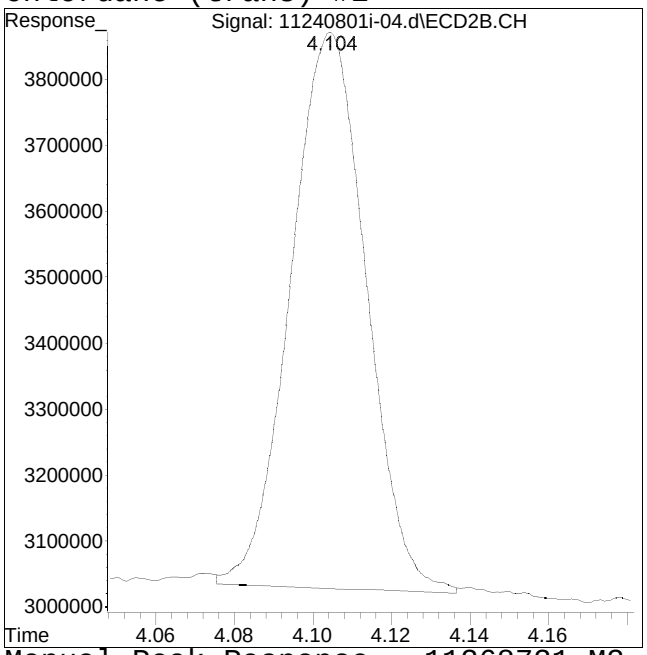
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 11559204



Manual Peak Response = 11268731 M3

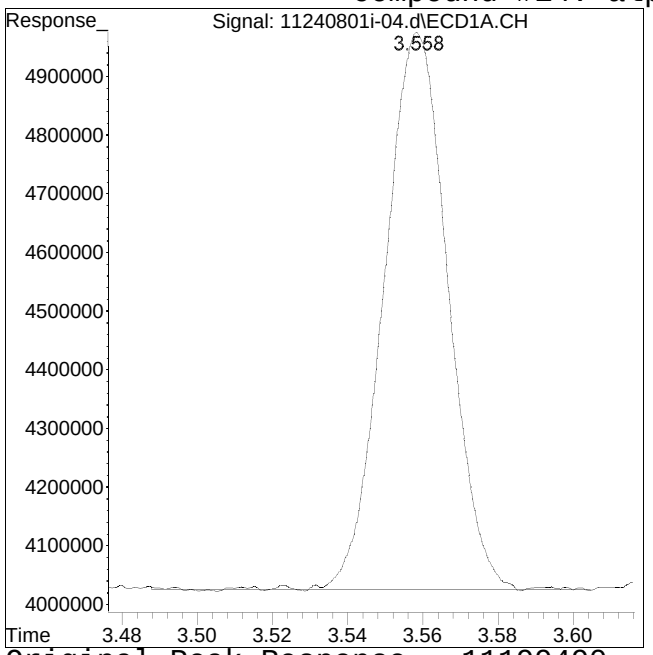
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

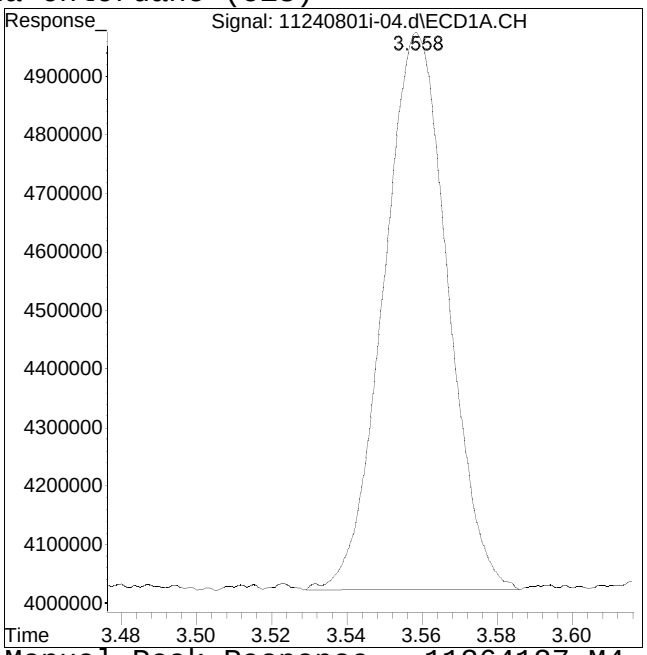
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 11199490



Manual Peak Response = 11264127 M4

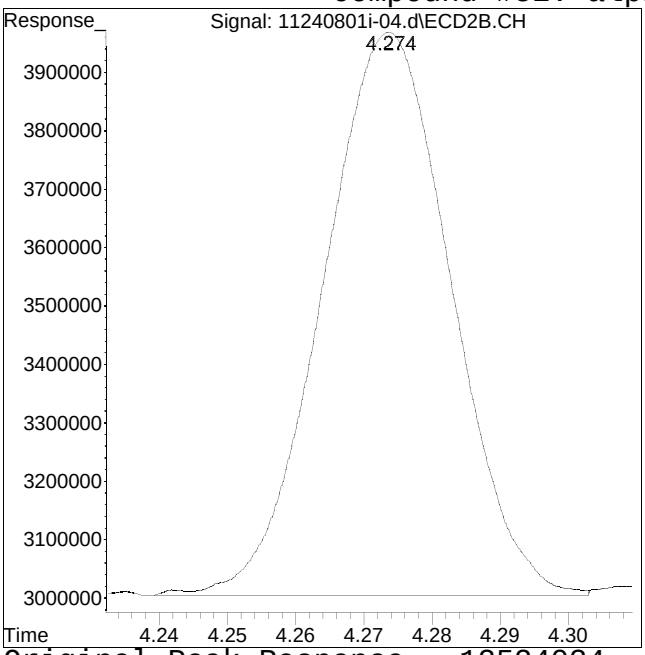
M4 = Poor automated baseline construction.

Manual Integration Report

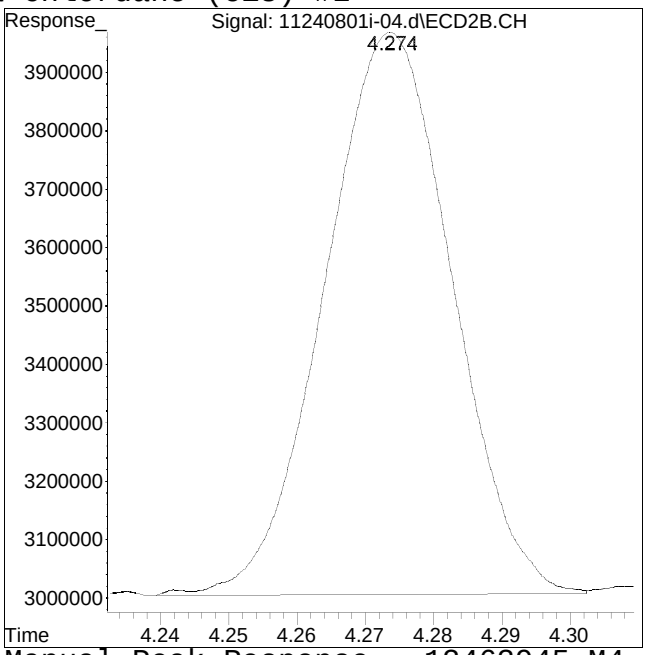
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 12524034



Manual Peak Response = 12463945 M4

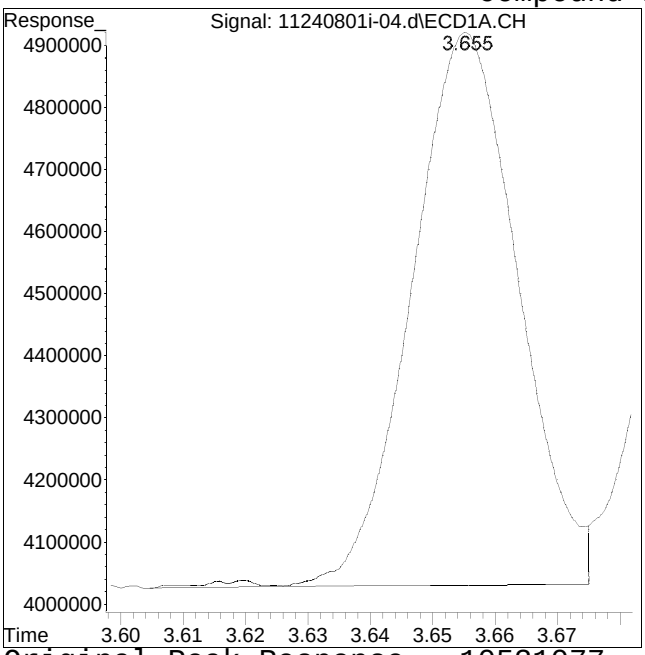
M4 = Poor automated baseline construction.

Manual Integration Report

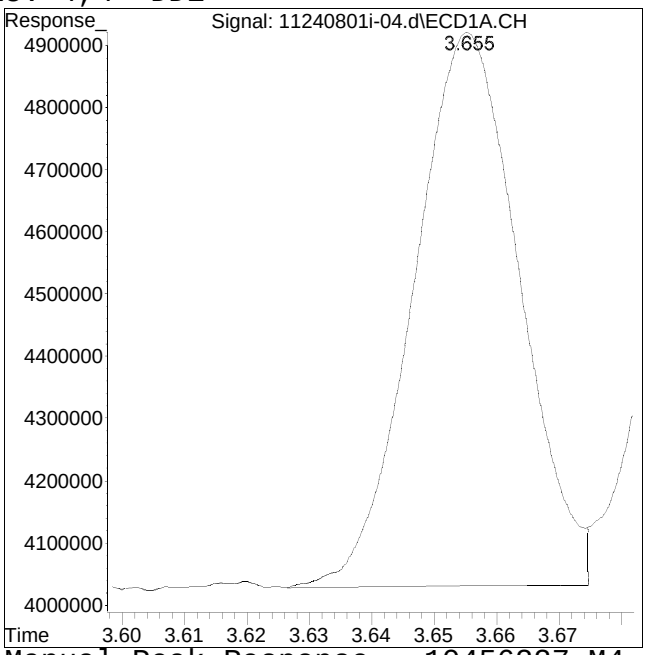
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #15: 4,4'-DDE



Original Peak Response = 10531077



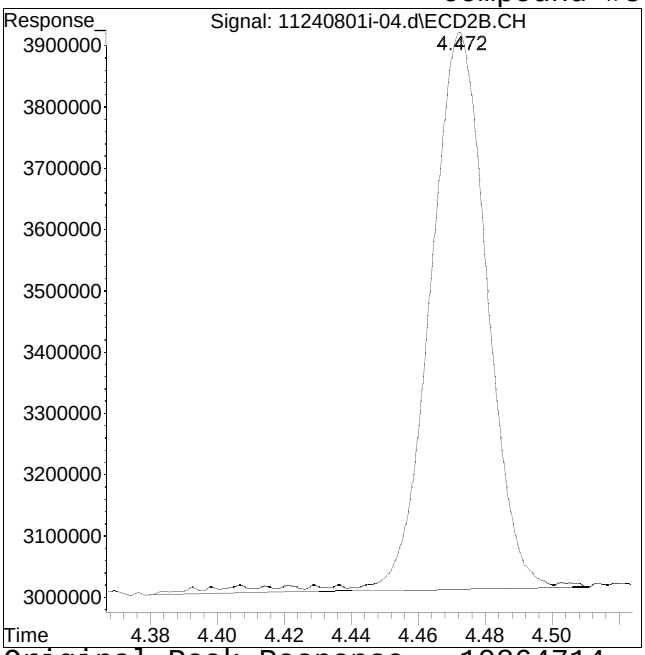
Manual Peak Response = 10456227 M4

M4 = Poor automated baseline construction.

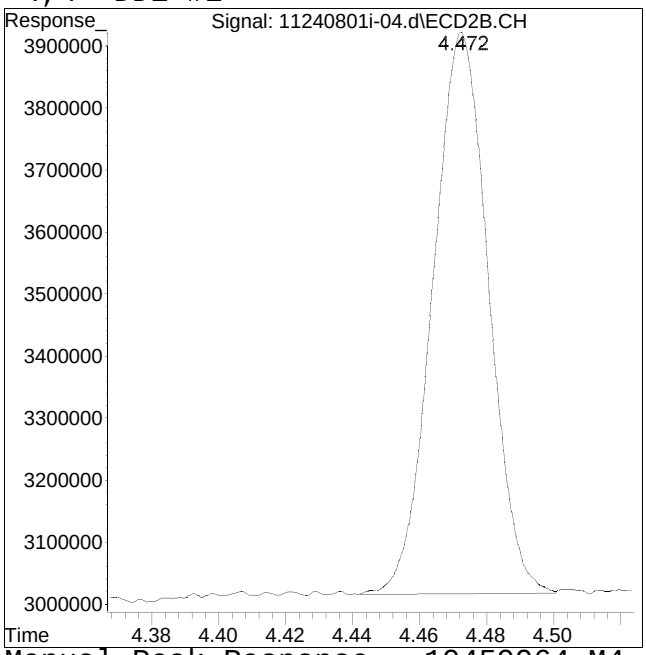
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 10864714



Manual Peak Response = 10459964 M4

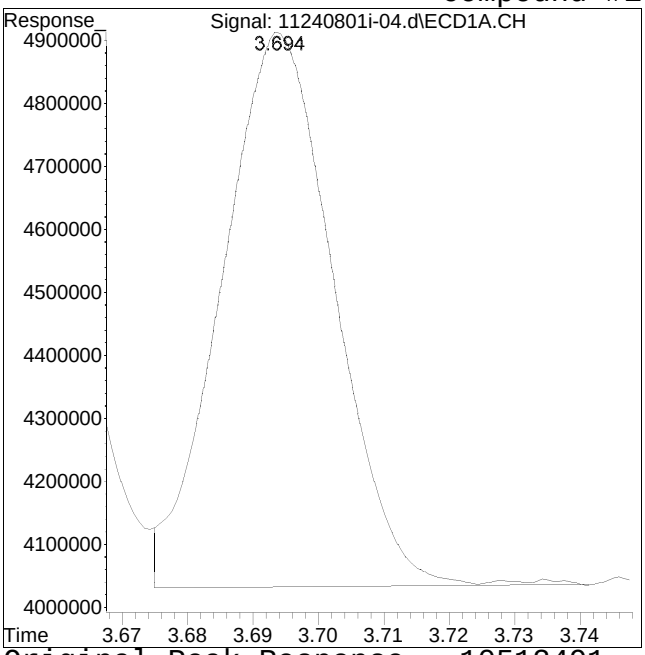
M4 = Poor automated baseline construction.

Manual Integration Report

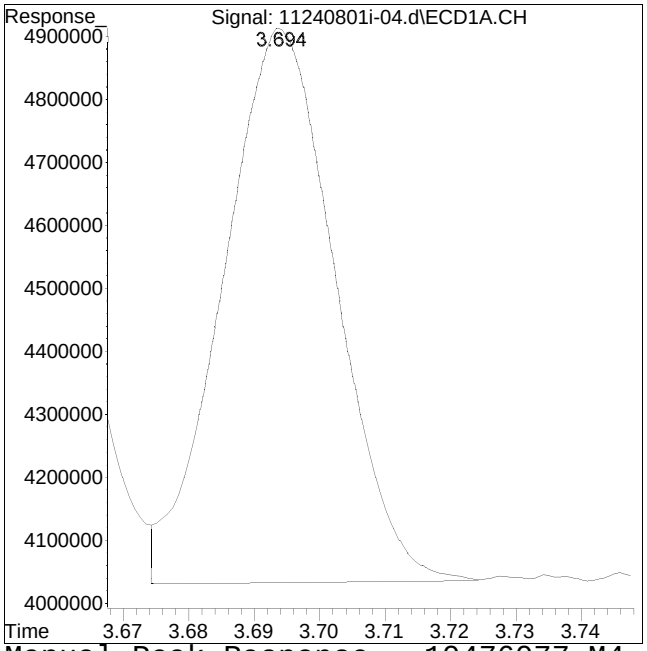
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #16: Endosulfan I



Original Peak Response = 10512491



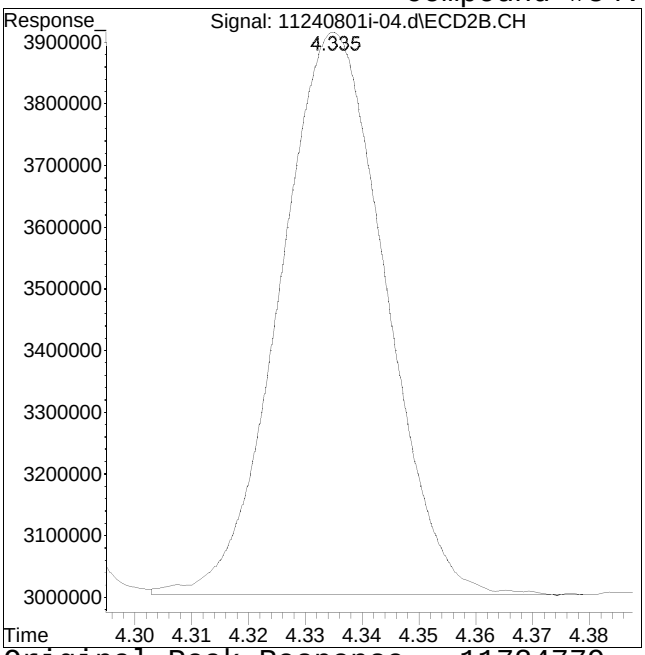
Manual Peak Response = 10476077 M4

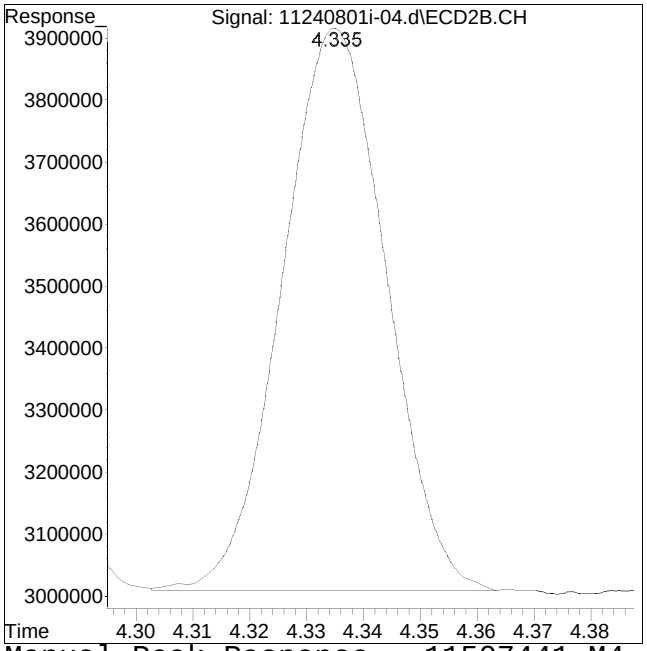
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #54: Endosulfan I #2





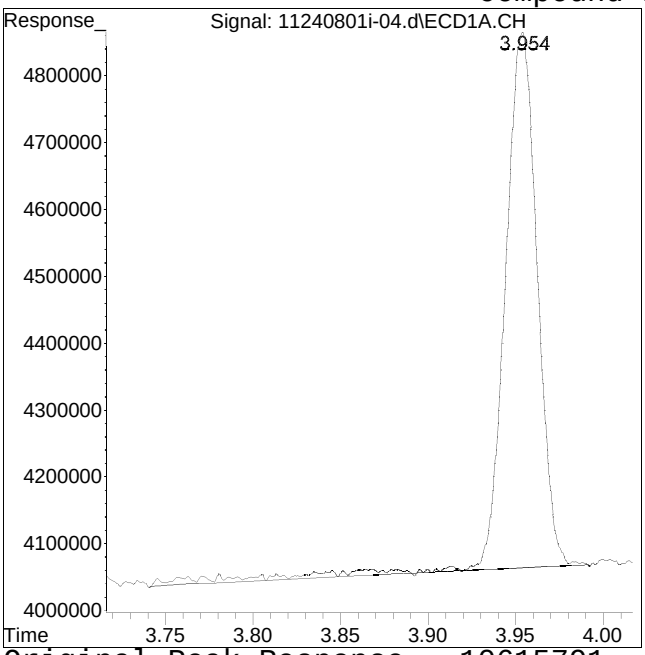
Original Peak Response = 11724779 Manual Peak Response = 11507441 M4
M4 = Poor automated baseline construction.

Manual Integration Report

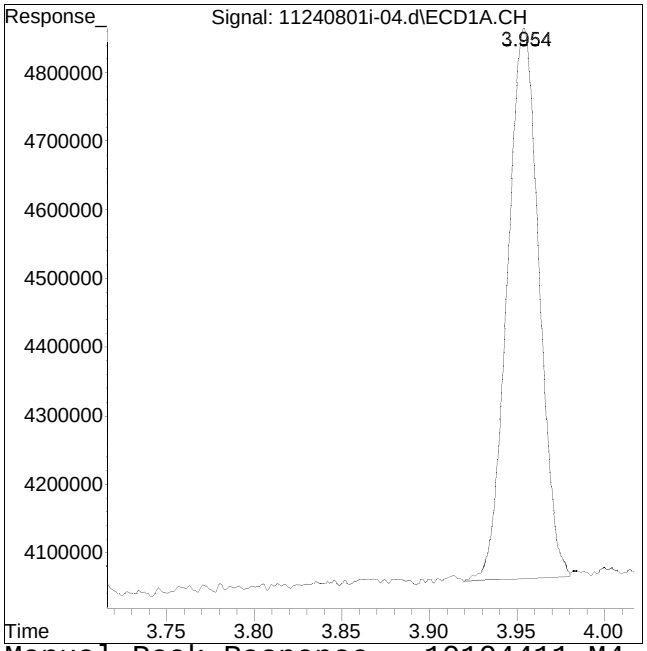
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #17: Dieldrin



Original Peak Response = 10615791



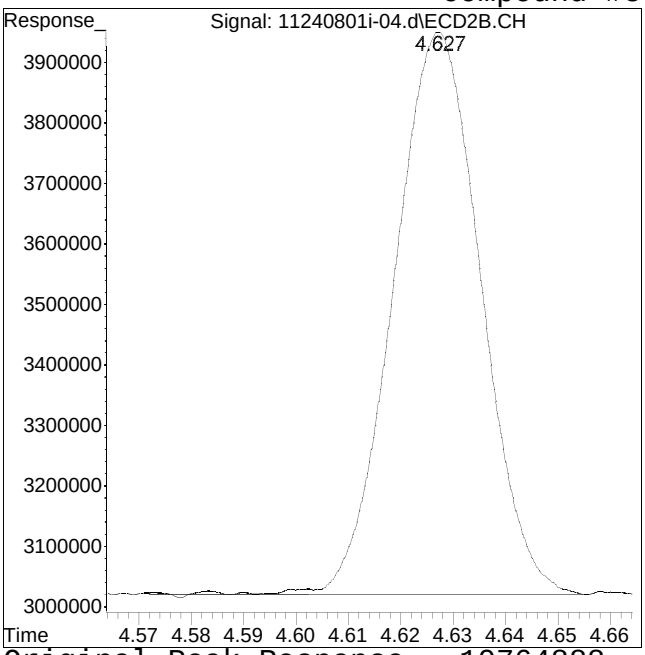
Manual Peak Response = 10104411 M4

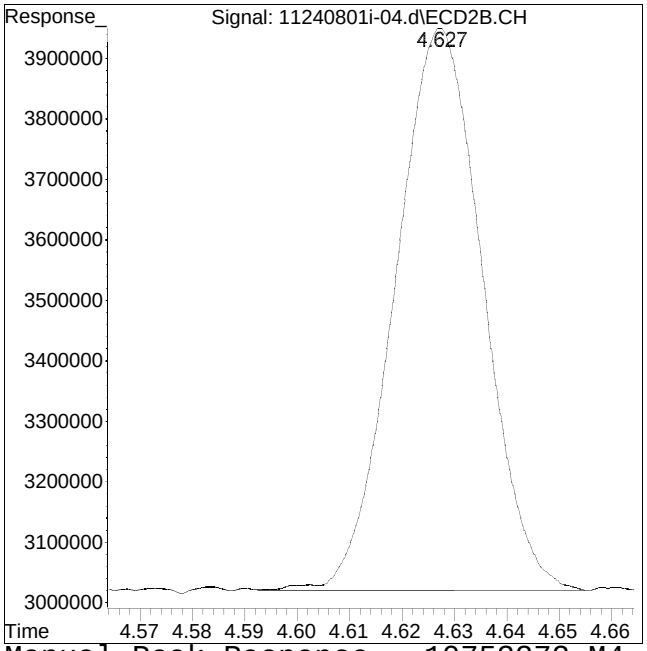
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #55: Dieldrin #2





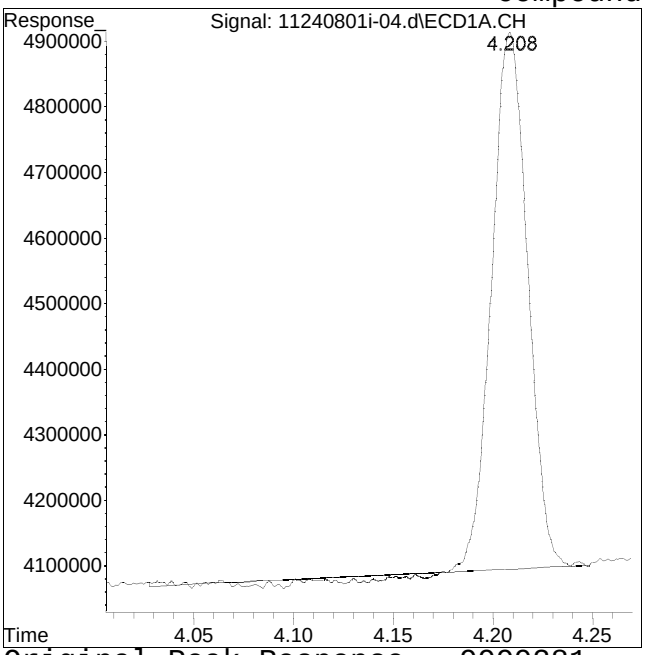
Original Peak Response = 10764888 Manual Peak Response = 10753372 M4
M4 = Poor automated baseline construction.

Manual Integration Report

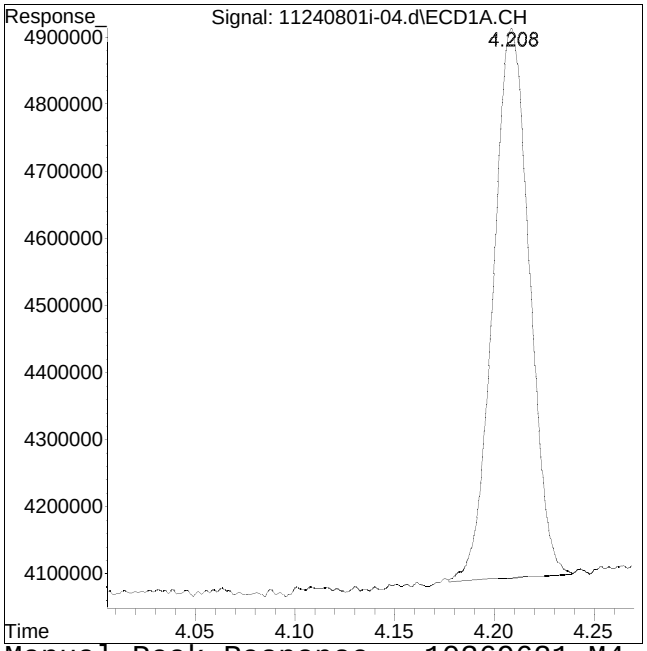
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #18: Endrin



Original Peak Response = 9999281



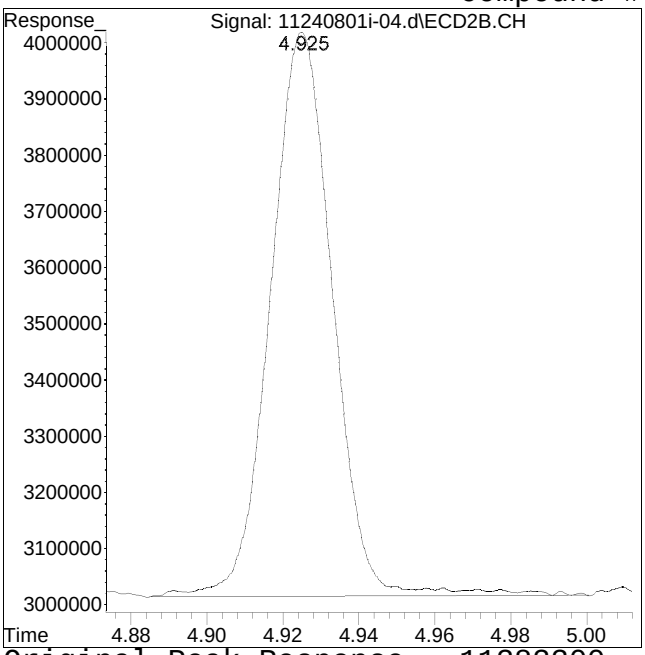
Manual Peak Response = 10369621 M4

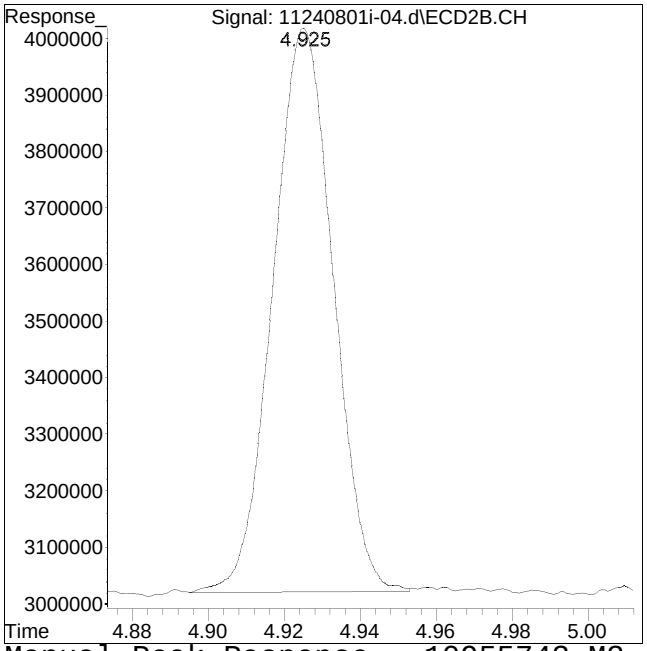
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #56: Endrin #2





Original Peak Response = 11383300 Manual Peak Response = 10955743 M3

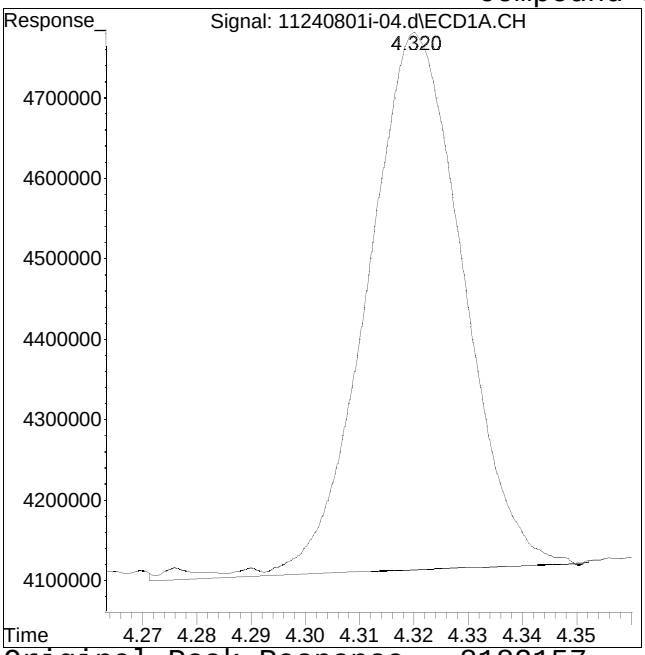
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

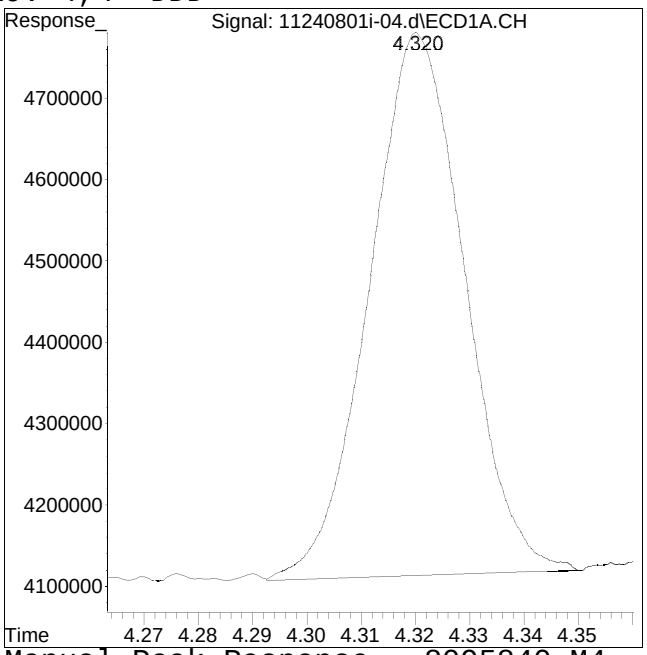
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #19: 4,4'-DDD



Original Peak Response = 8182157



Manual Peak Response = 8095840 M4

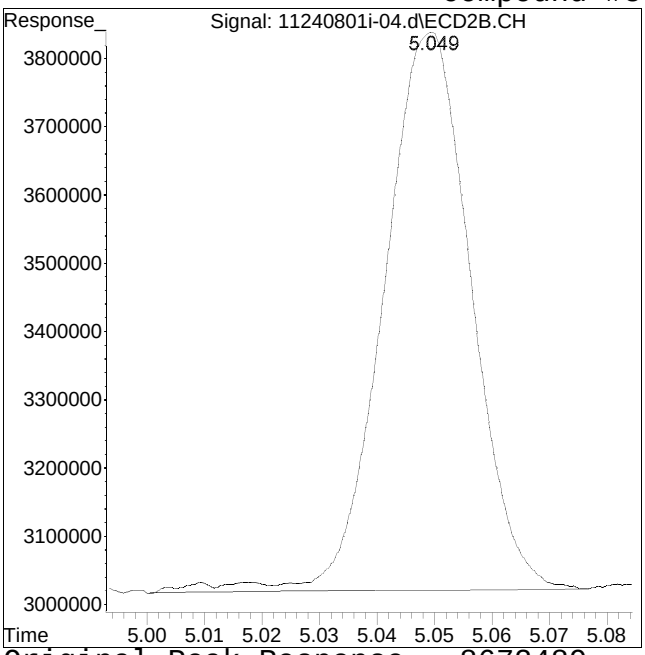
M4 = Poor automated baseline construction.

Manual Integration Report

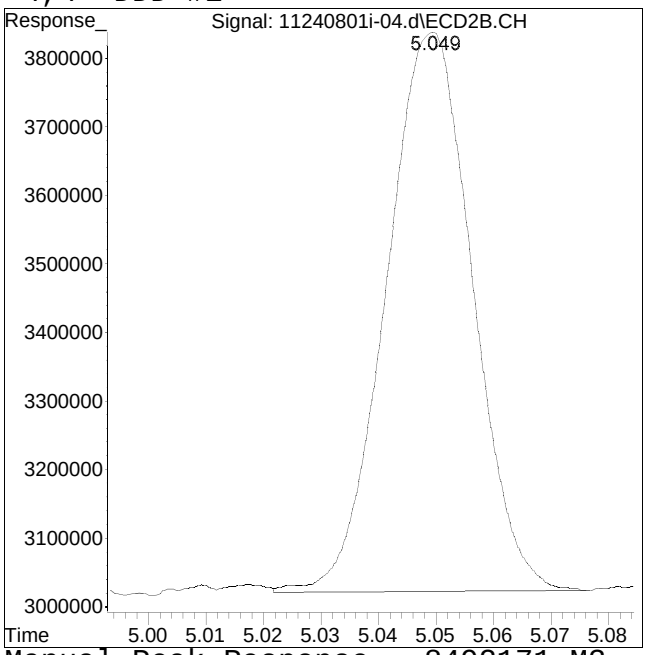
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 8672489



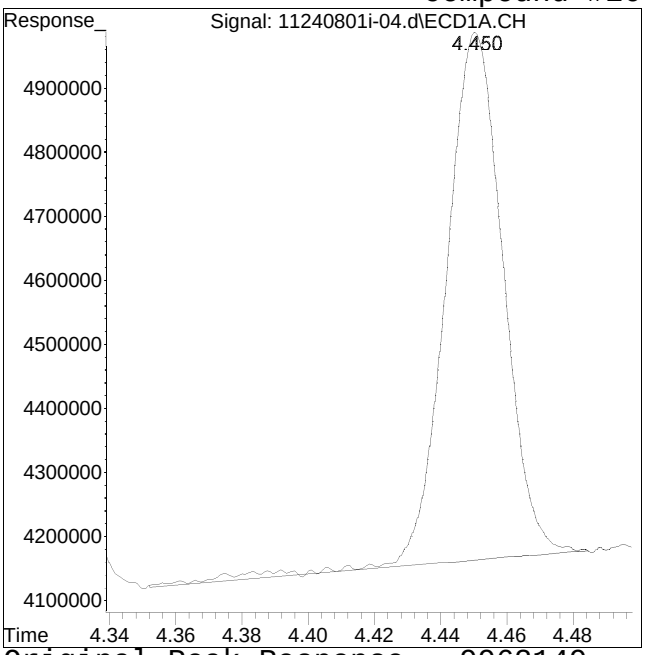
Manual Peak Response = 8492171 M3

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

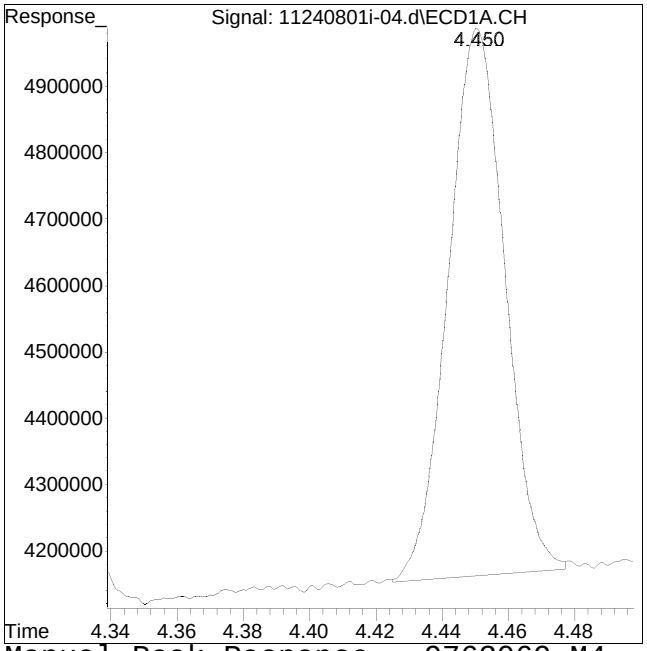
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #20: Endosulfan II



Original Peak Response = 9962149



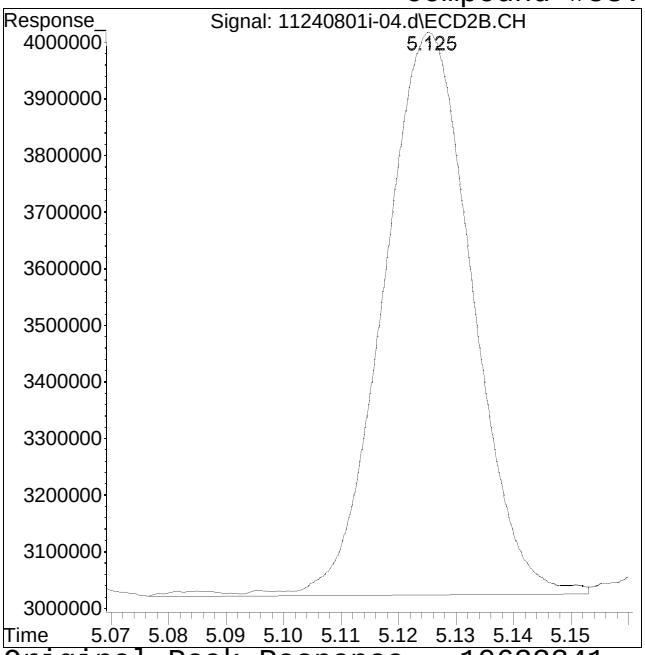
Manual Peak Response = 9763069 M4

M4 = Poor automated baseline construction.

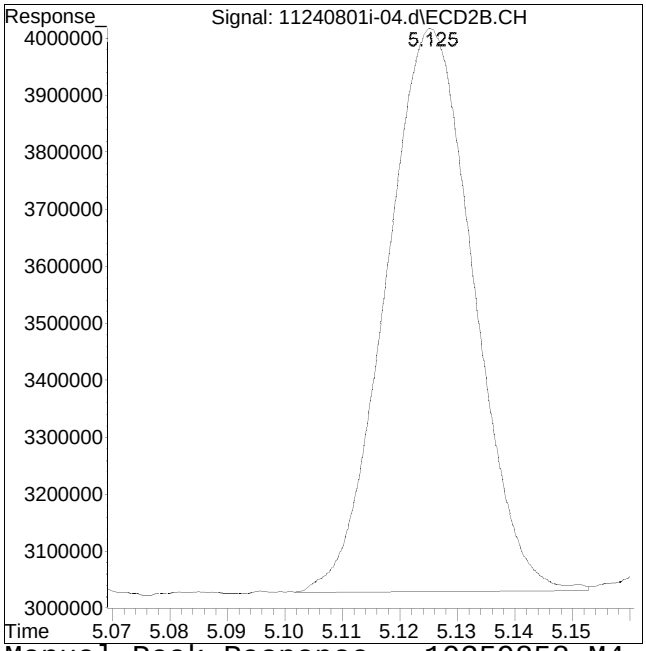
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #58: Endosulfan II #2



Original Peak Response = 10633341



Manual Peak Response = 10359858 M4

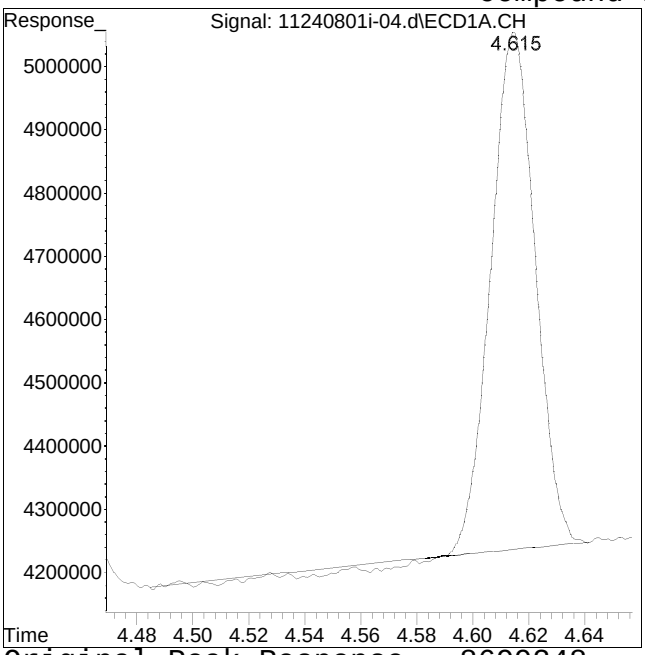
M4 = Poor automated baseline construction.

Manual Integration Report

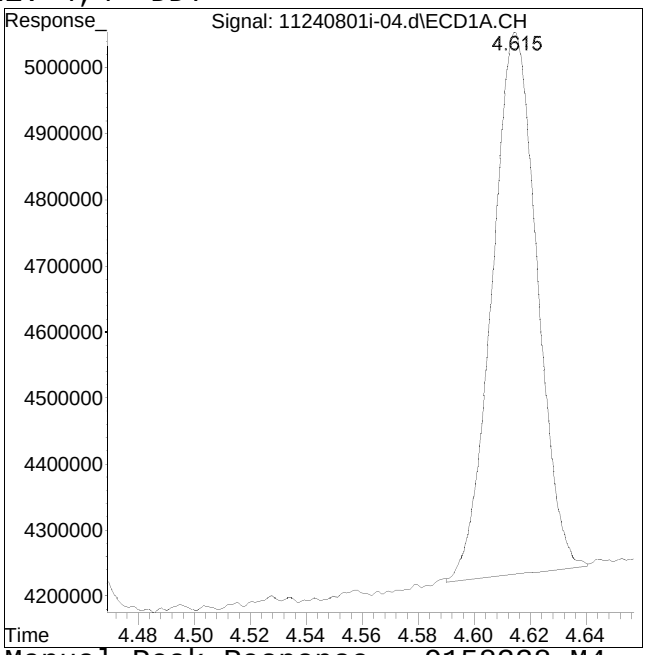
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #21: 4,4'-DDT



Original Peak Response = 8699248



Manual Peak Response = 9158338 M4

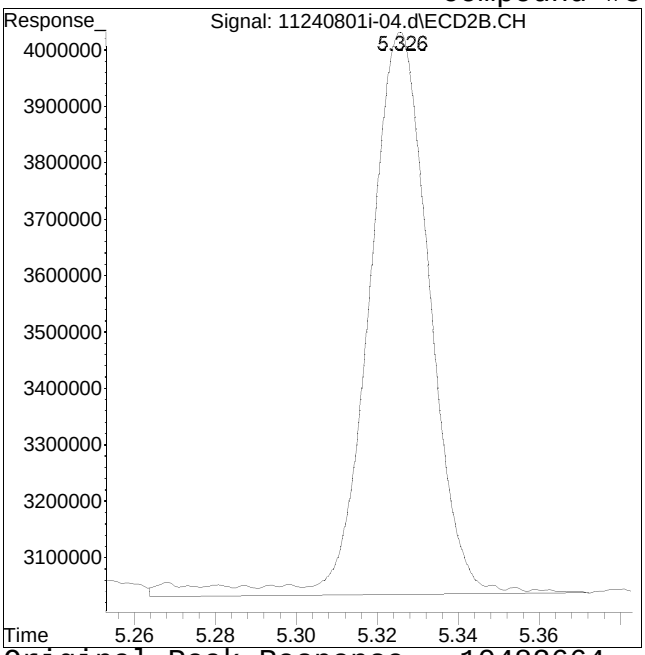
M4 = Poor automated baseline construction.

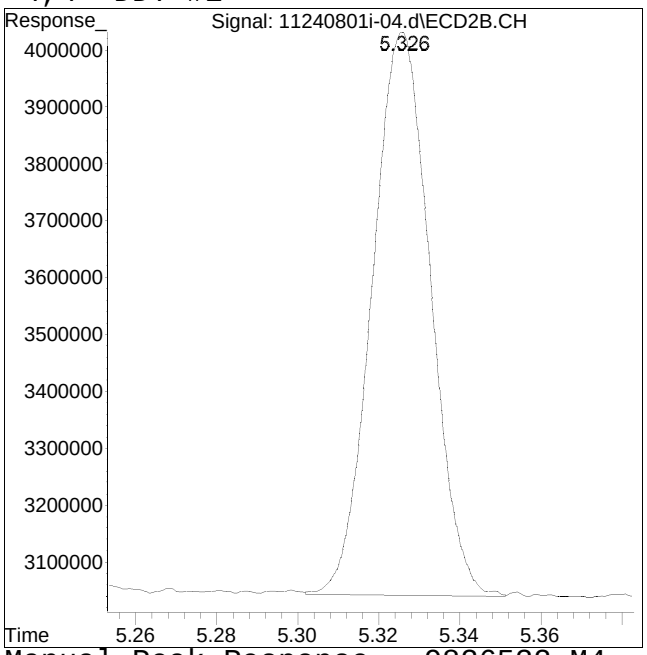
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #59: 4,4'-DDT #2





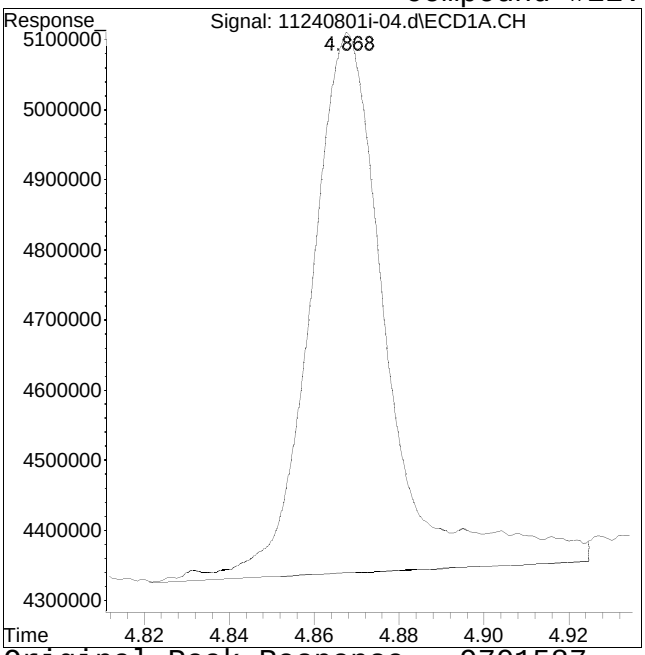
Original Peak Response = 10482664 Manual Peak Response = 9826532 M4
M4 = Poor automated baseline construction.

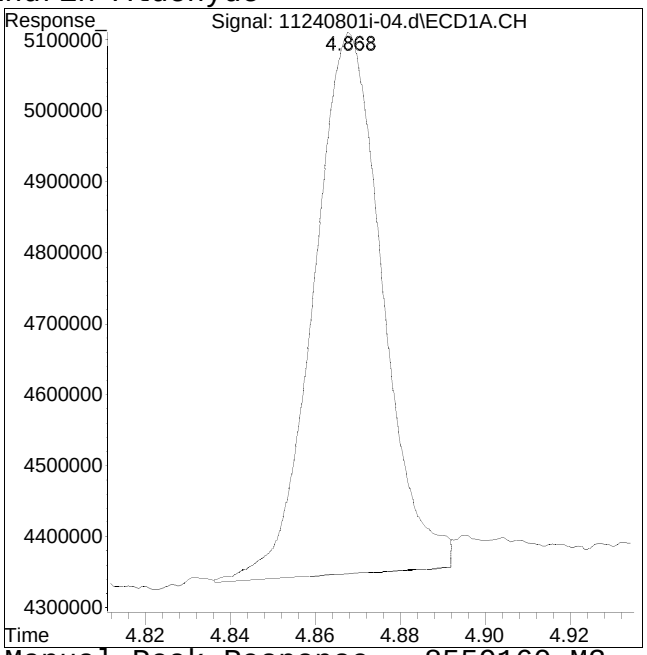
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #22: Endrin Aldehyde





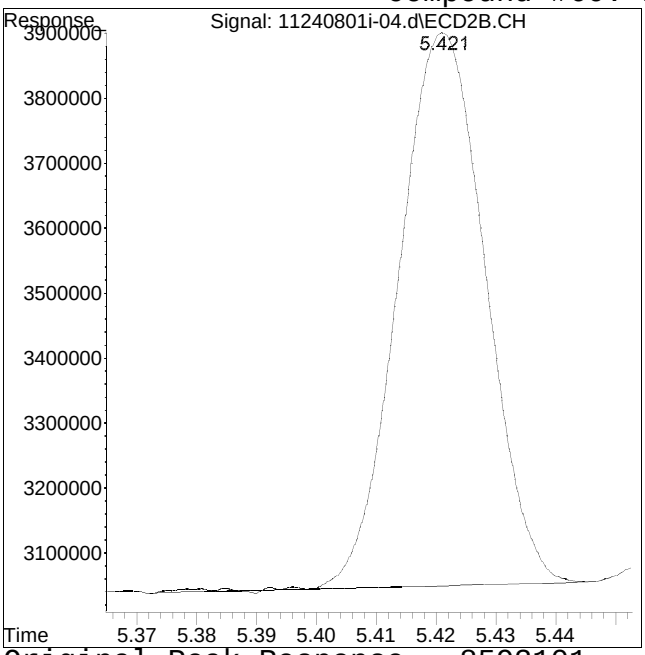
Original Peak Response = 9701587 Manual Peak Response = 8559160 M3

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

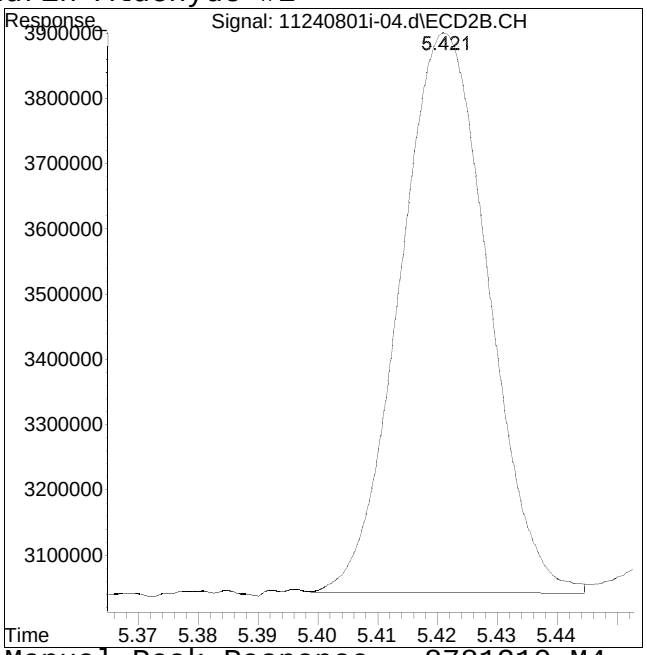
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 8593101



Manual Peak Response = 8781210 M4

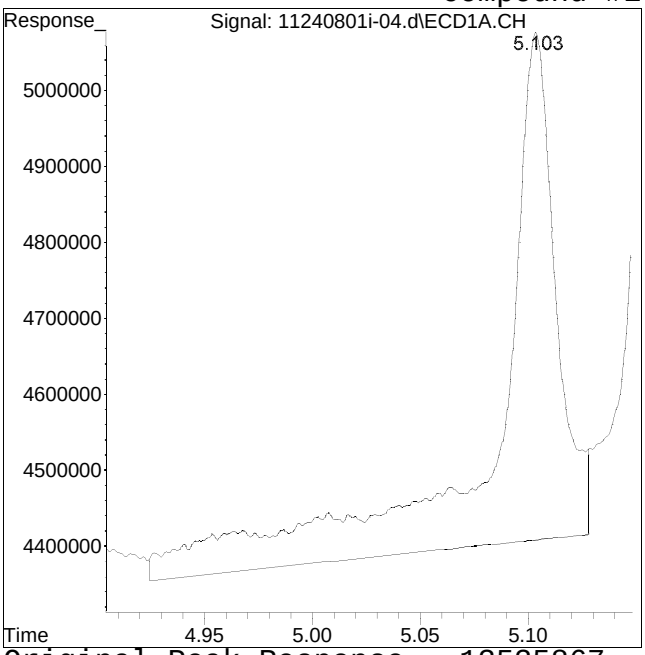
M4 = Poor automated baseline construction.

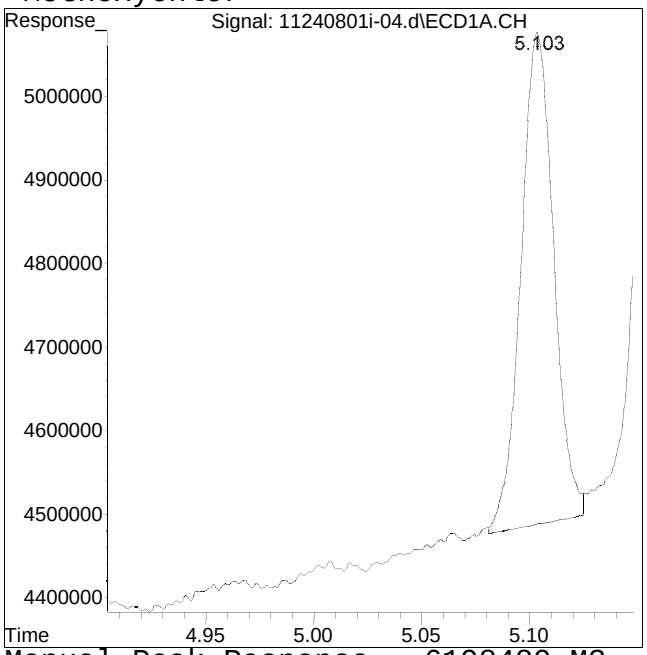
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #23: Methoxychlor





Original Peak Response = 13535867 Manual Peak Response = 6198489 M3

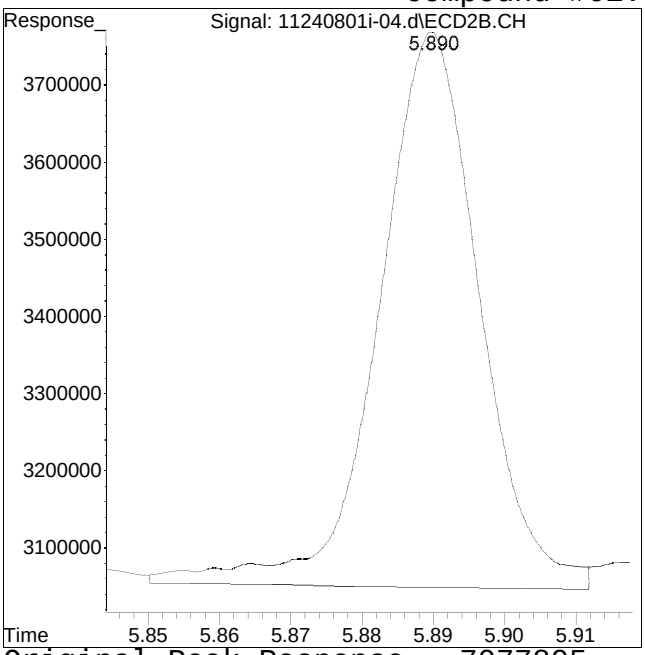
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

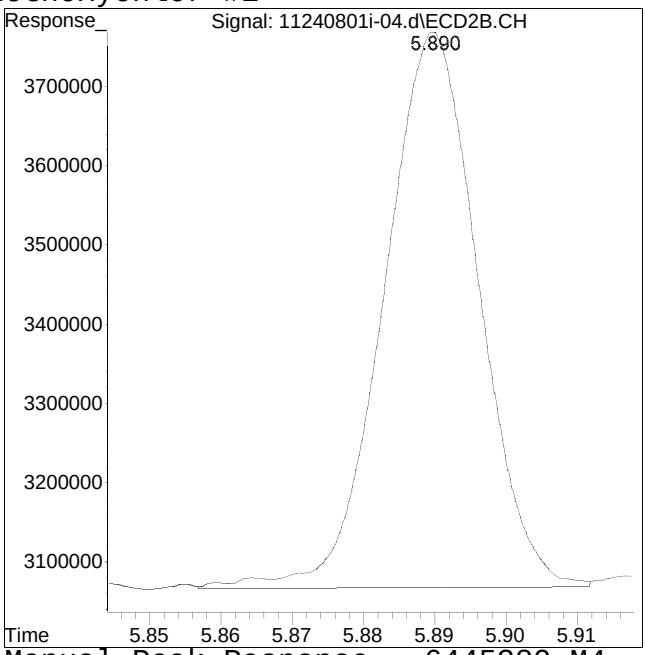
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #61: Methoxychlor #2



Original Peak Response = 7077805



Manual Peak Response = 6445389 M4

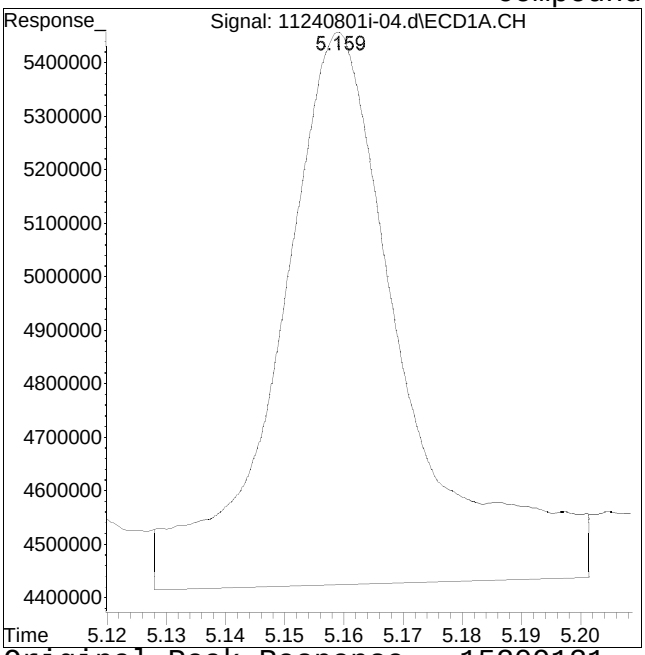
M4 = Poor automated baseline construction.

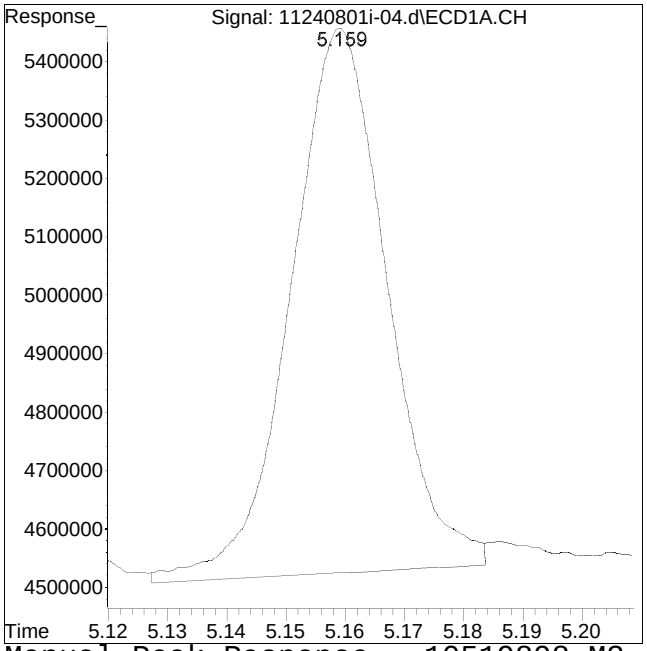
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #24: Mirex





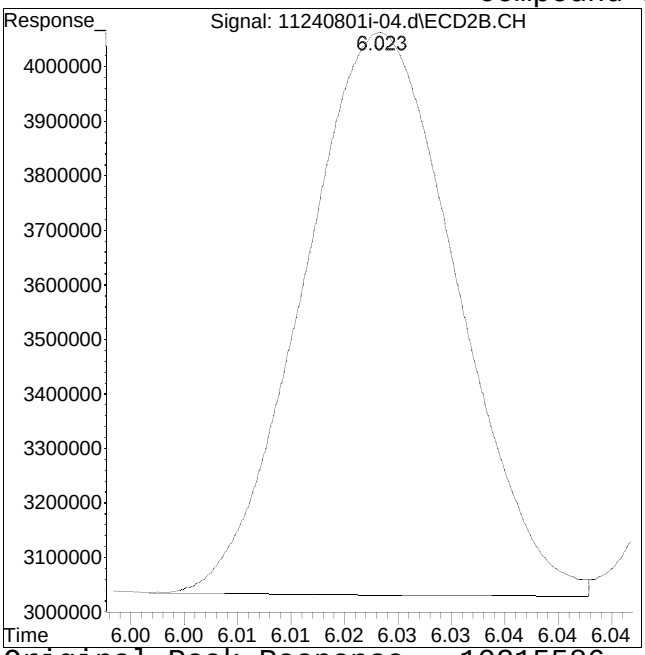
Original Peak Response = 15209131 Manual Peak Response = 10519898 M3

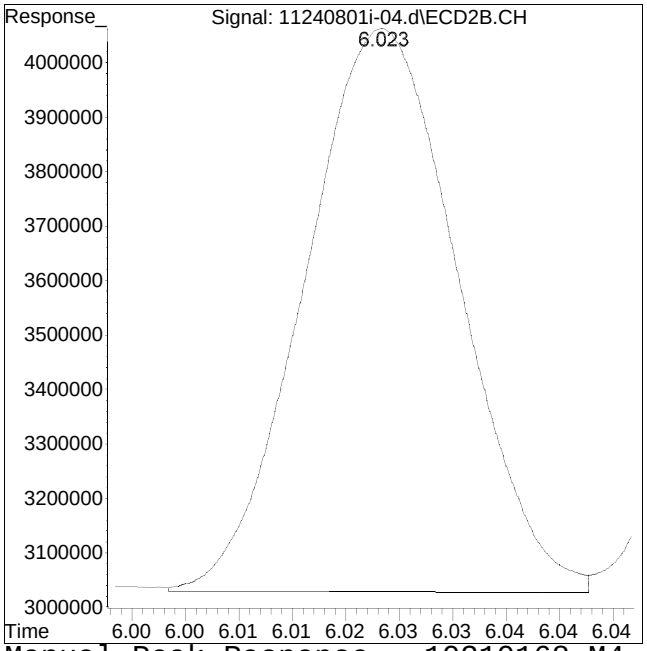
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #62: Mirex #2





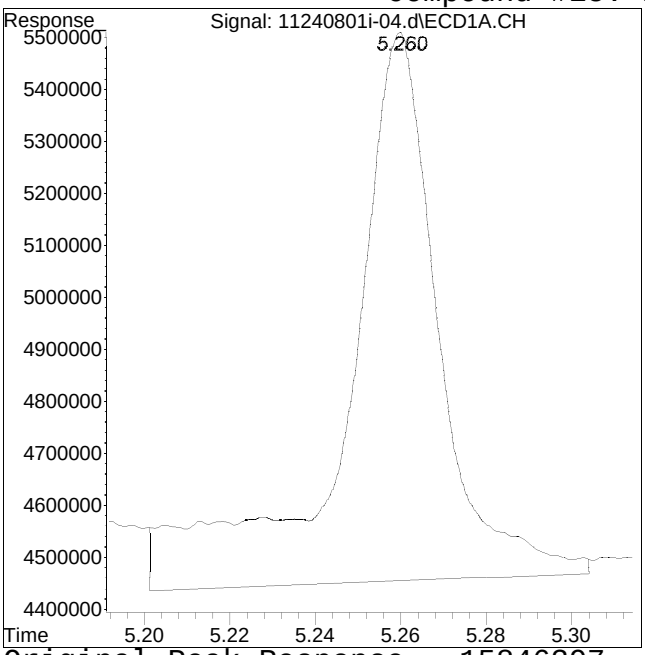
Original Peak Response = 10215586 Manual Peak Response = 10310168 M4
M4 = Poor automated baseline construction.

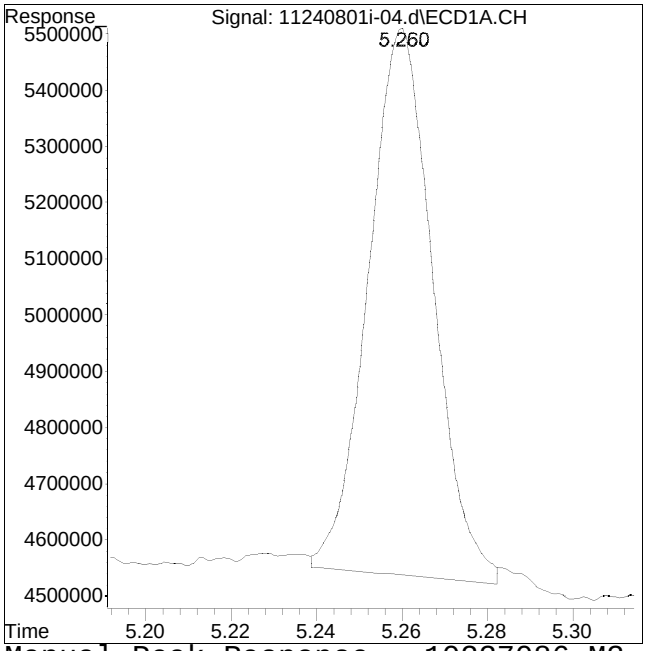
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #25: Endosulfan Sulfate





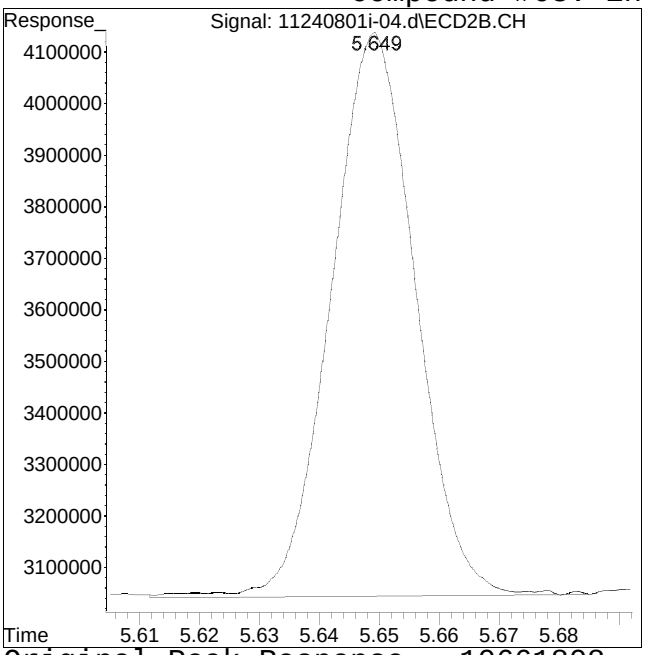
Original Peak Response = 15846397 Manual Peak Response = 10237086 M3

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

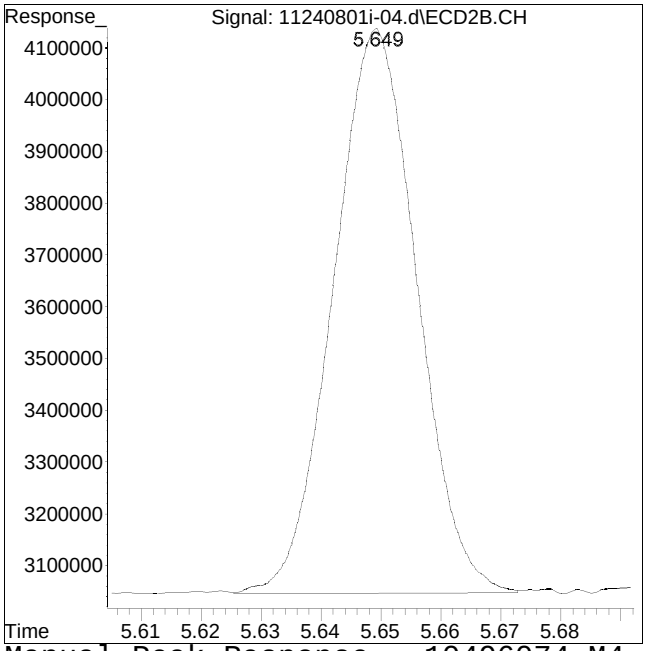
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 10661808



Manual Peak Response = 10496074 M4

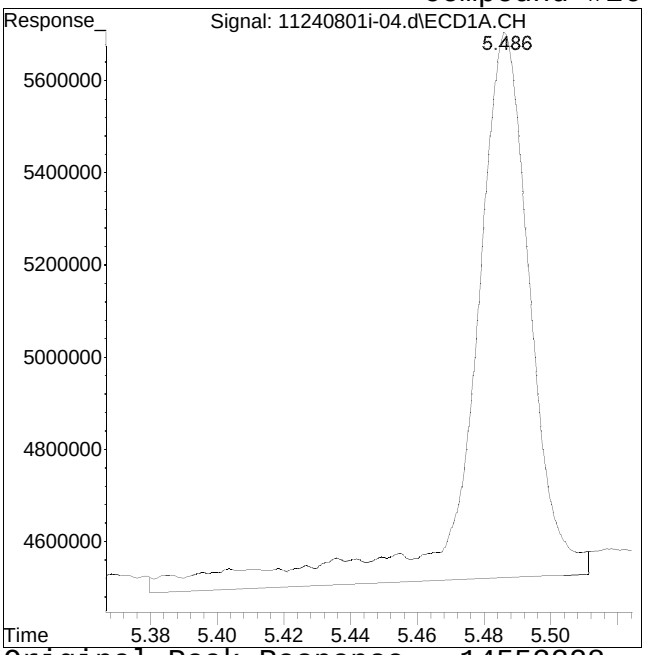
M4 = Poor automated baseline construction.

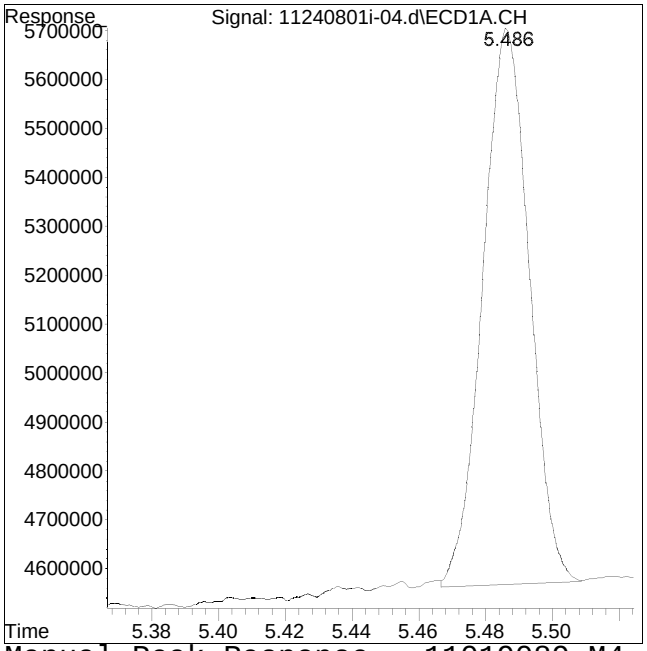
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #26: Endrin Ketone



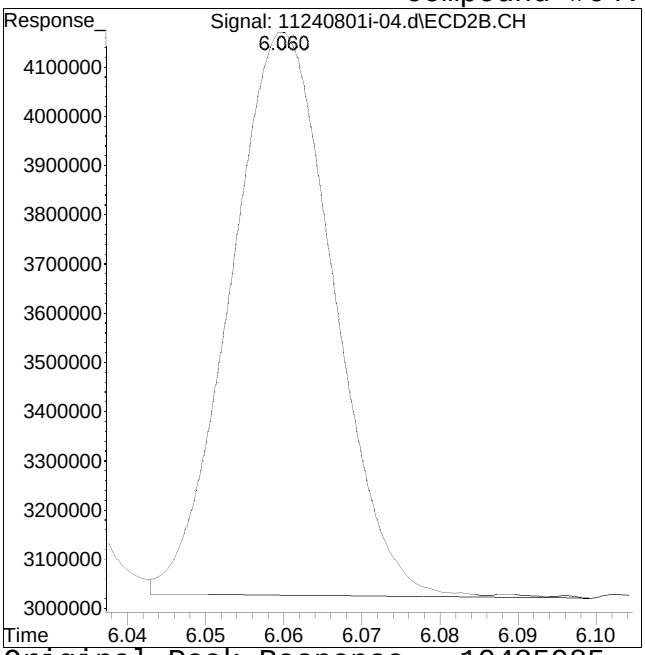


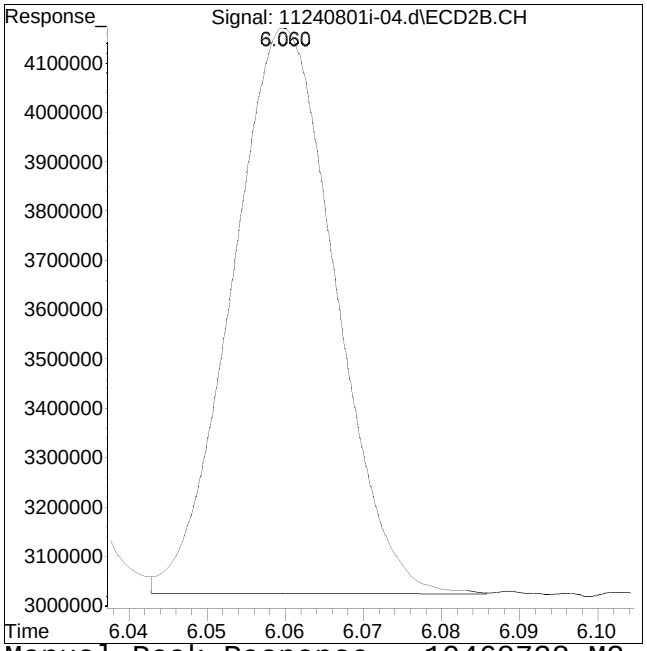
Original Peak Response = 14553228 Manual Peak Response = 11019089 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #64: Endrin Ketone #2





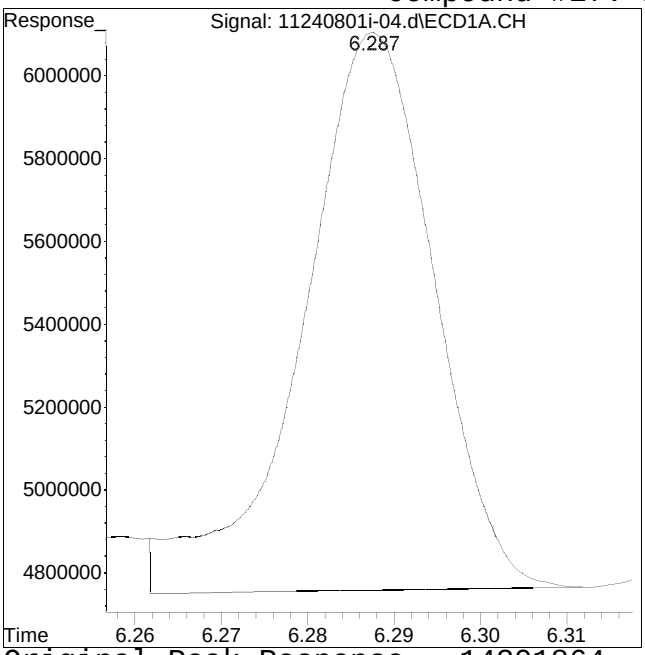
Original Peak Response = 10485985 Manual Peak Response = 10468738 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

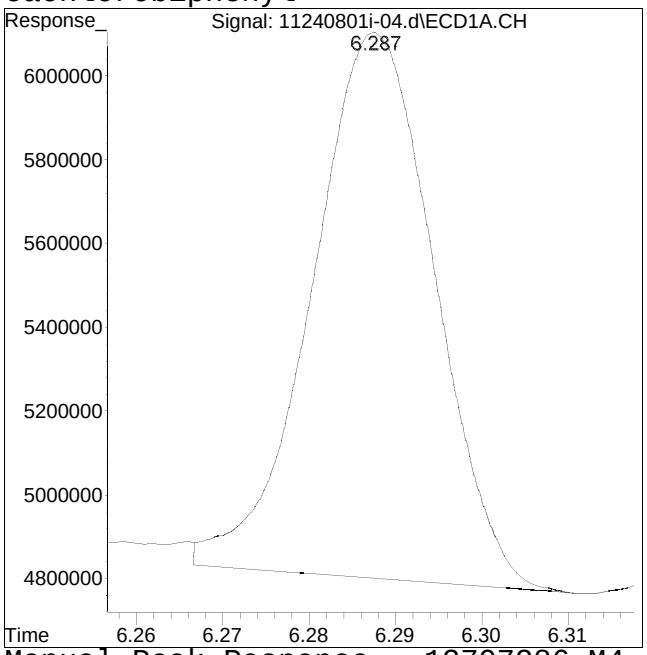
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 14301864



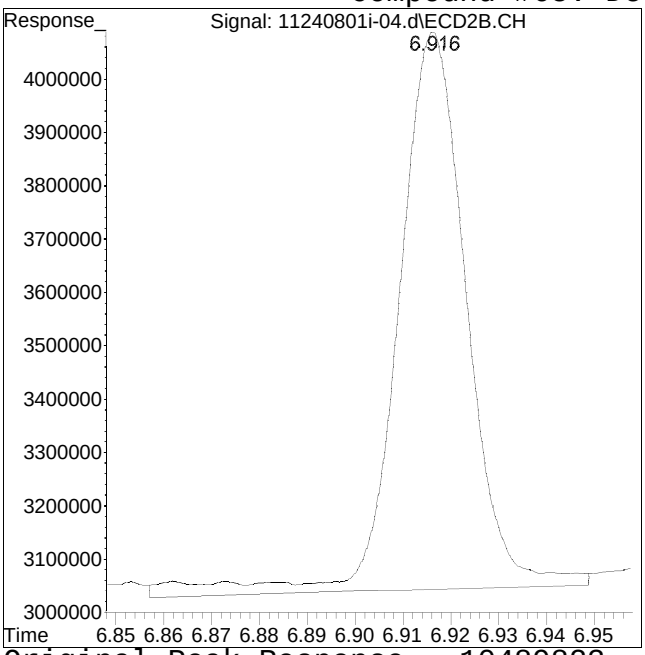
Manual Peak Response = 12797286 M4

M4 = Poor automated baseline construction.

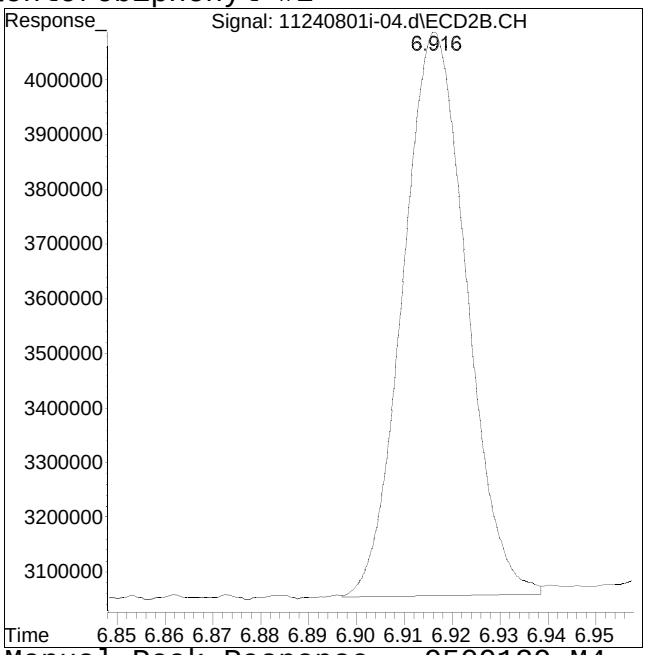
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 10489823



Manual Peak Response = 9509129 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:01
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:14:19 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:14:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.385	233.6E6	183.3E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	19656914	17683979	2.037M4	2.218M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.07%#	4.44%#
27) s	Decachlorobi	6.288	6.921	24597164	17880278	2.363M4	2.415M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.73%#	4.83%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.177	28232919	20378901	2.202M4	2.341M4
4) t	alpha-BHC	1.963	2.270	24776337	22916880	1.763M3	1.910M4
5) t	gamma-BHC (l	2.165	2.556	24518590	22225331	1.860M4	2.012M4
6) t	beta-BHC	2.221	2.622	12371613	12076597	2.144M4	2.433M4
7) t	delta-BHC	2.349	2.889	23489321	22105919	1.784M4	1.978
8) t	Heptachlor	2.513	2.951	24704645	25240850	2.000M3	2.217M4
9) t	Aldrin	2.755	3.270	22221712	21532475	1.906M3	2.069M4
10) t	Alachlor	2.876	3.153	4616058	4291521	2.172M4	2.624M4
11) t	Chlorpyrifos	2.968	3.506	12587779	16060949	2.339M4	2.633M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:01
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:14:19 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:14:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.883	22577234	23119137	2.042M3	2.290M4
13)	t	gamma-Chlord	3.425	4.104	20000923	21362303	1.986M3	2.301M3
14)	t	alpha-Chlord	3.559	4.274	22560782	23123524	1.977M4	2.254M4
15)	t	4,4'-DDE	3.656	4.472	21256749	19930567	1.878	2.035M4
16)	t	Endosulfan I	3.695	4.335	20979786	21644513	2.011	2.297M4
17)	t	Dieldrin	3.954	4.627	20608823	20372093	1.919M4	2.128M4
18)	t	Endrin	4.209	4.926	21154040	20698754	1.945M4	2.132
19)	t	4,4'-DDD	4.321	5.049	16433727	16195802	1.862M4	2.053M4
20)	t	Endosulfan I	4.451	5.125	19856372	19658239	2.017M4	2.284M4
21)	t	4,4'-DDT	4.615	5.325	19330578	18980554	1.925M4	2.092M3
22)	t	Endrin Aldeh	4.868	5.421	16609803	16584125	2.012M4	2.309M4
23)	t	Methoxychlor	5.104	5.890	11871688	11964320	2.204M4	2.443M3
24)	t	Mirex	5.159	6.024	19186744	19029253	2.220M4	2.566M4
25)	t	Endosulfan S	5.259	5.649	19345504	19598268	2.080M3	2.317M4
26)	t	Endrin Keton	5.487	6.060	22428996	20121740	2.028M4	2.235M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:01
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:14:19 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:14:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

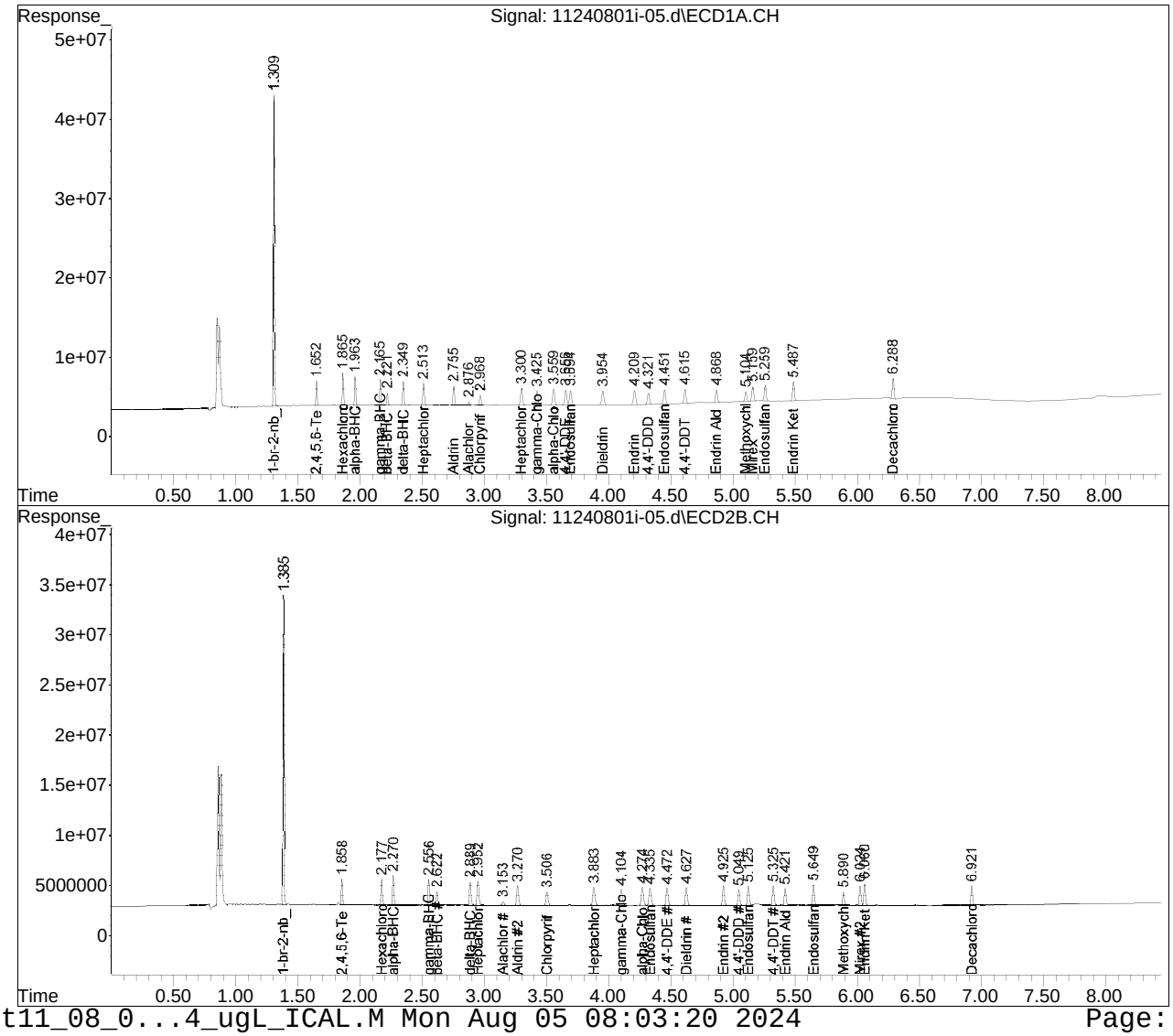
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:01
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:14:19 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:14:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

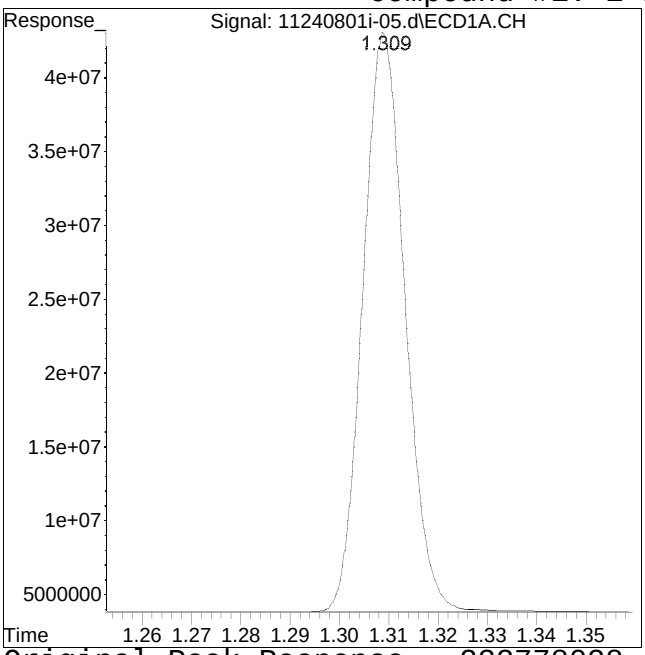


Manual Integration Report

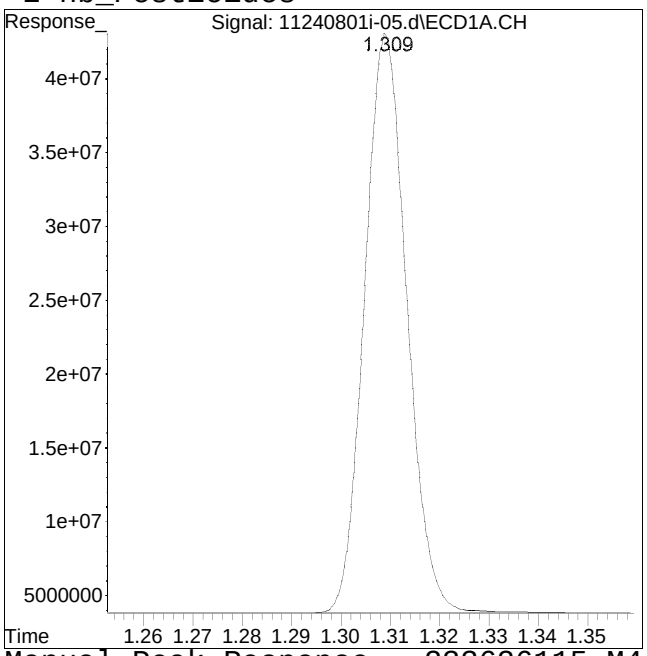
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 233778028



Manual Peak Response = 233626115 M4

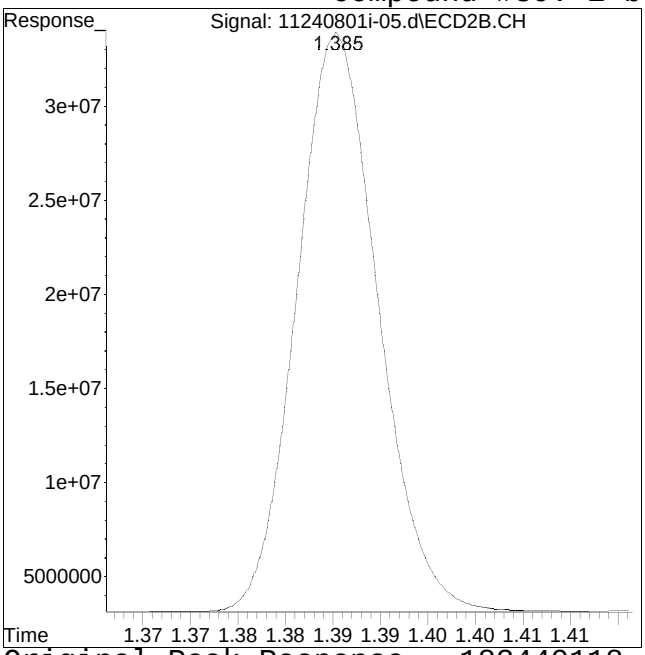
M4 = Poor automated baseline construction.

Manual Integration Report

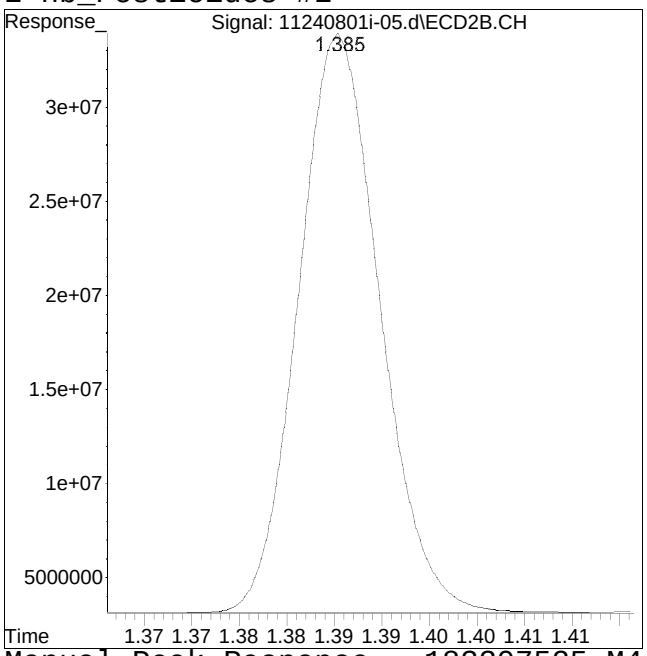
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 183440118



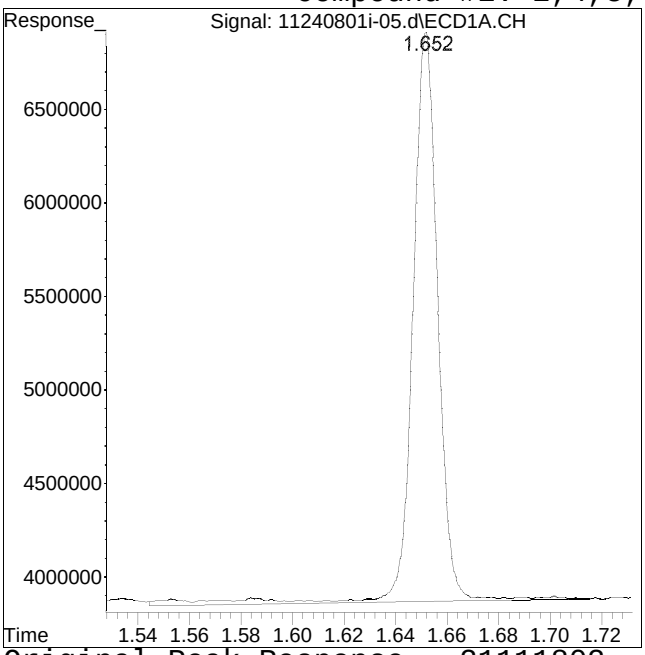
Manual Peak Response = 183307525 M4

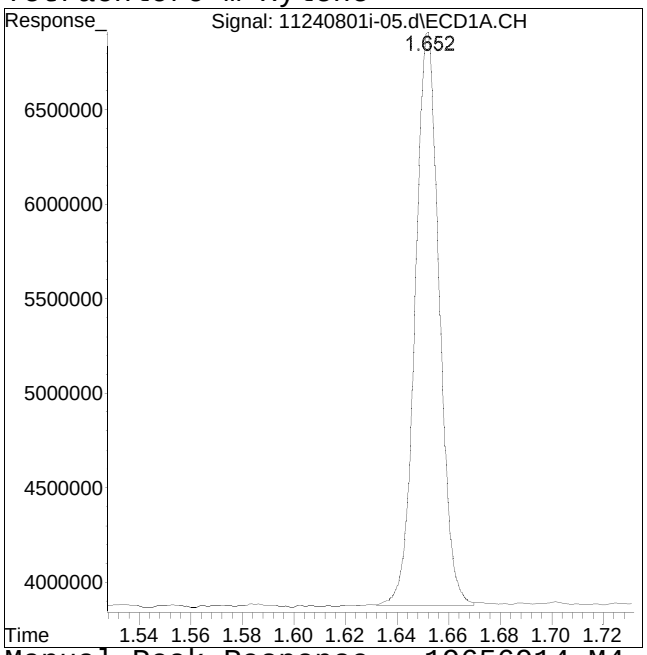
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





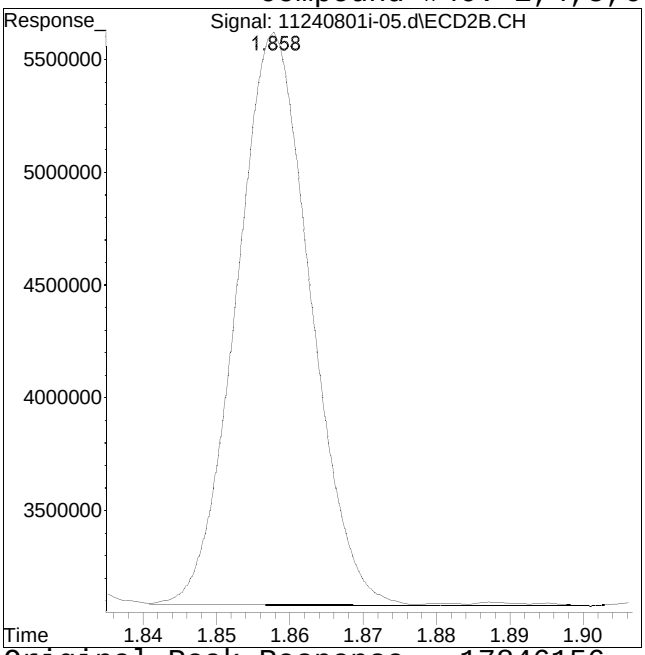
Original Peak Response = 21111802 Manual Peak Response = 19656914 M4
M4 = Poor automated baseline construction.

Manual Integration Report

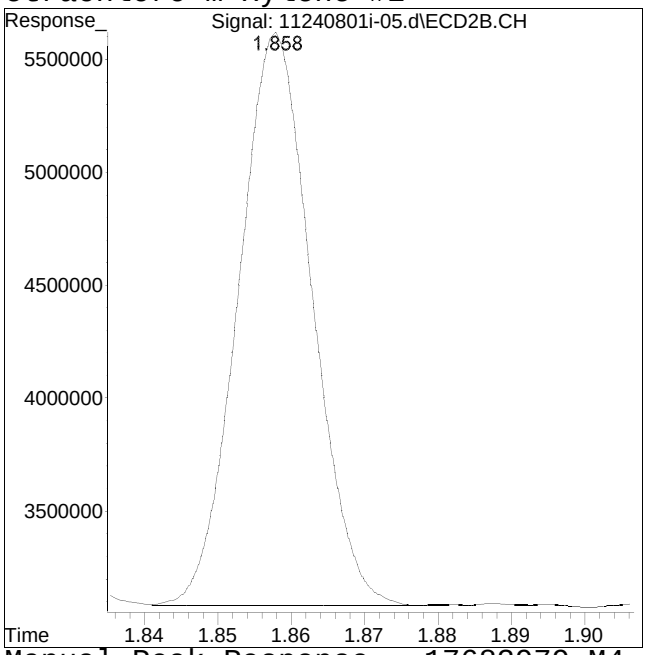
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 17846156



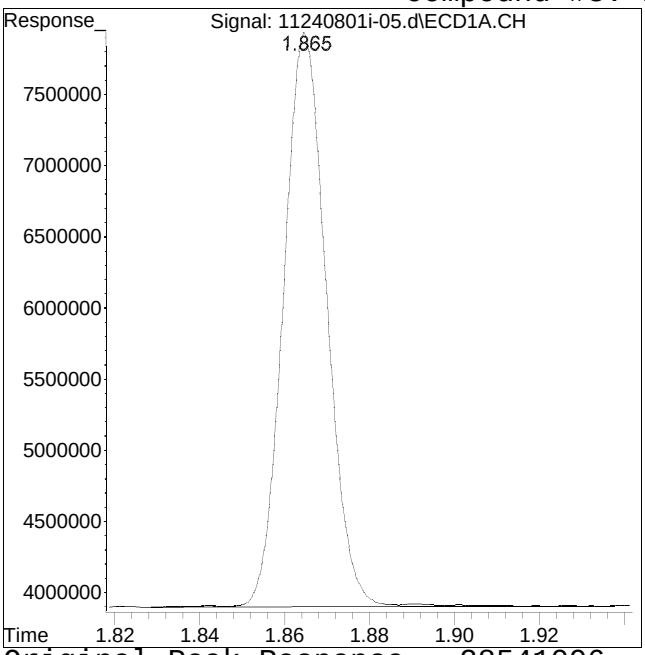
Manual Peak Response = 17683979 M4

M4 = Poor automated baseline construction.

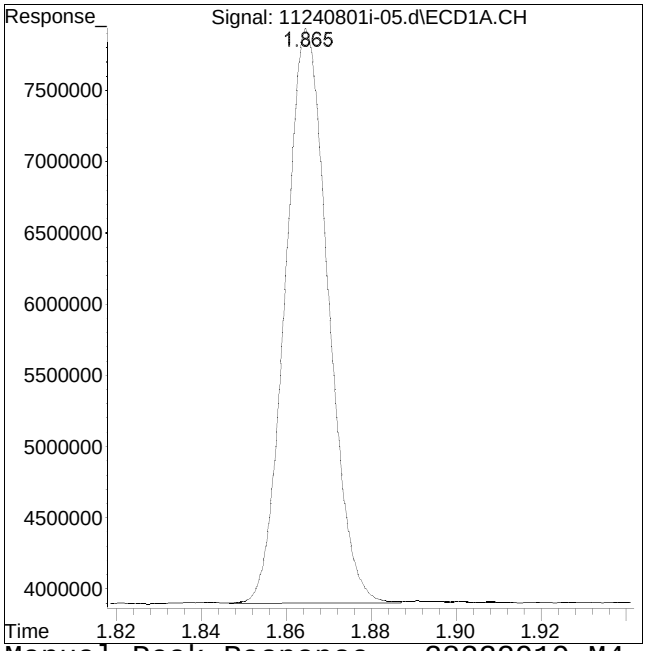
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #3: Hexachlorobenzene



Original Peak Response = 28541096



Manual Peak Response = 28232919 M4

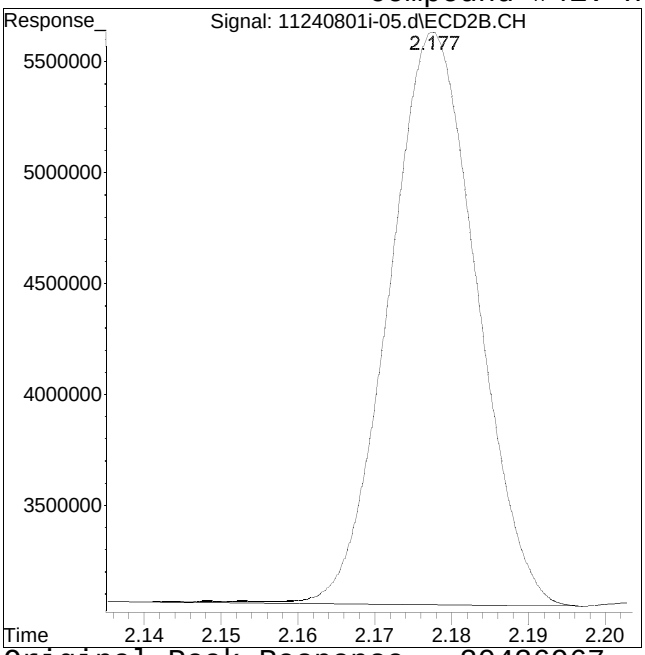
M4 = Poor automated baseline construction.

Manual Integration Report

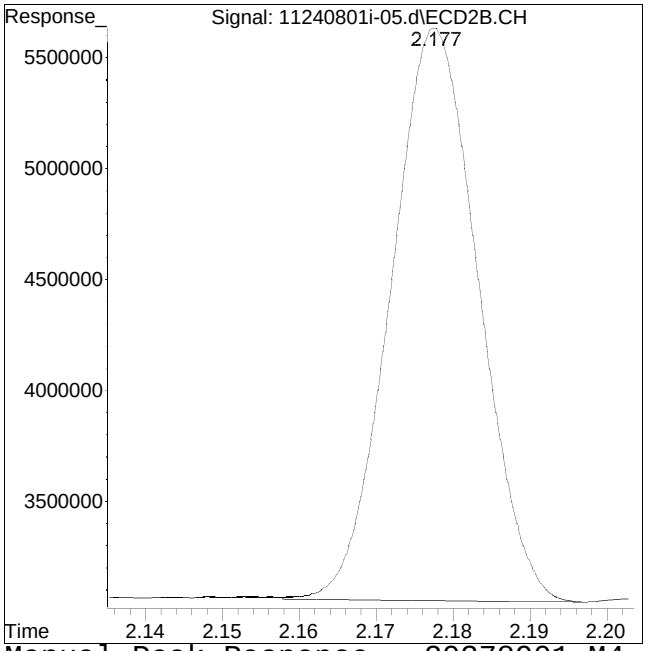
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 20436967



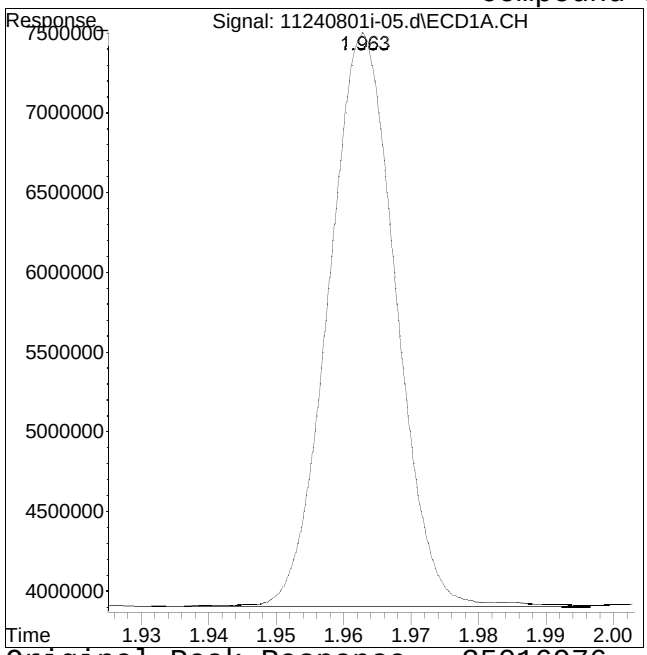
Manual Peak Response = 20378901 M4

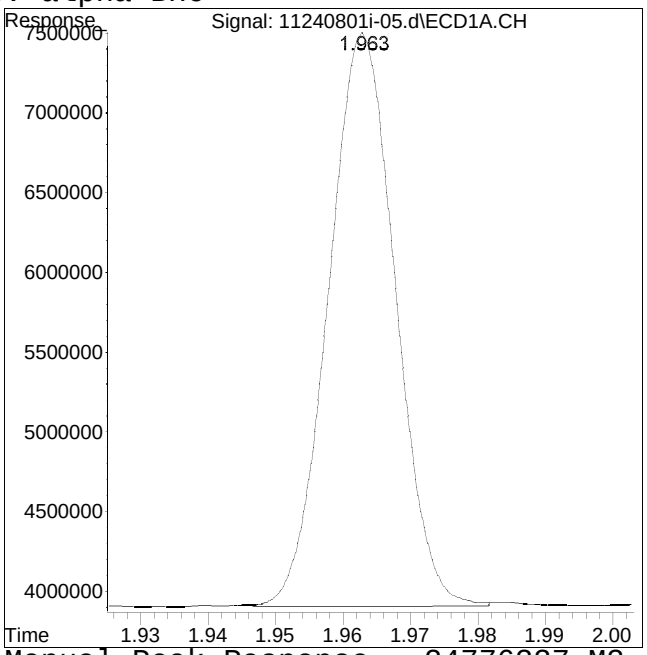
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0 Quant Date : 8/2/2024 11:14 am

Compound #4: alpha-BHC



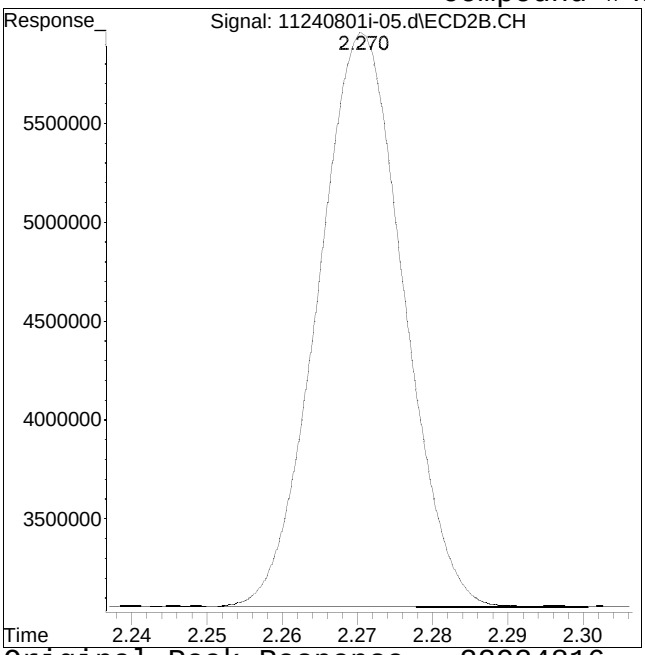


Original Peak Response = 25016976 Manual Peak Response = 24776337 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

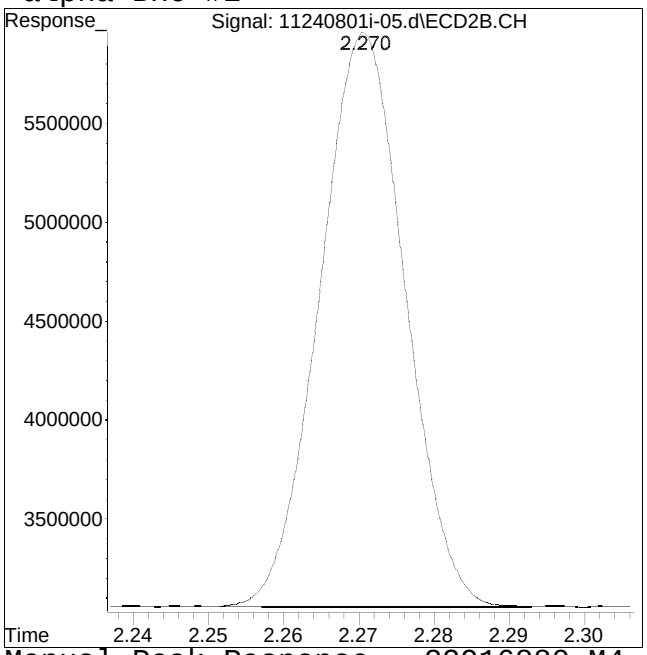
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #42: alpha-BHC #2



Original Peak Response = 22924816



Manual Peak Response = 22916880 M4

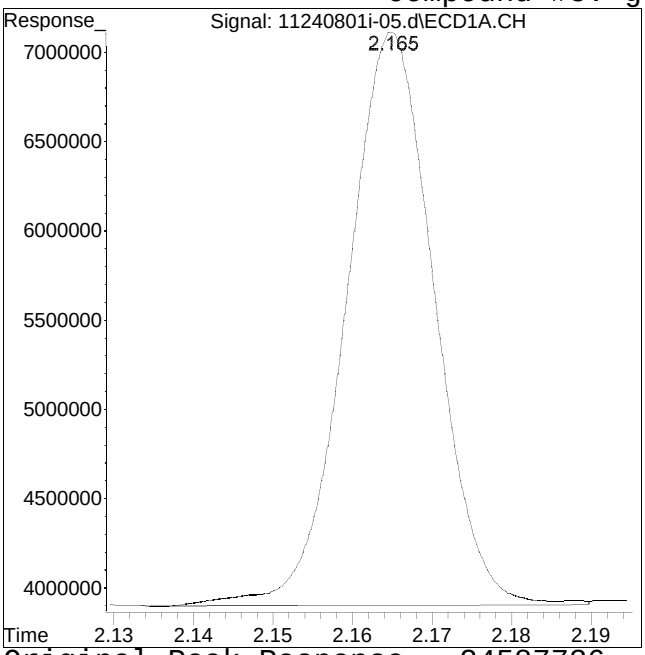
M4 = Poor automated baseline construction.

Manual Integration Report

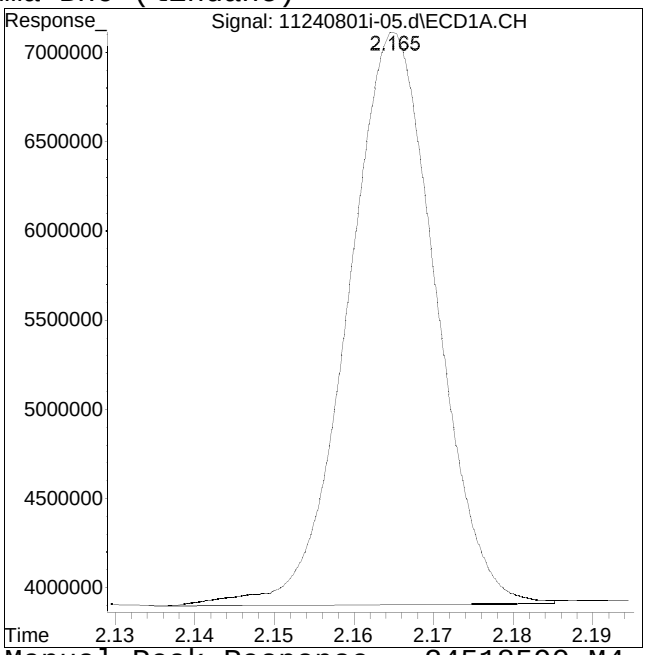
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 24587736



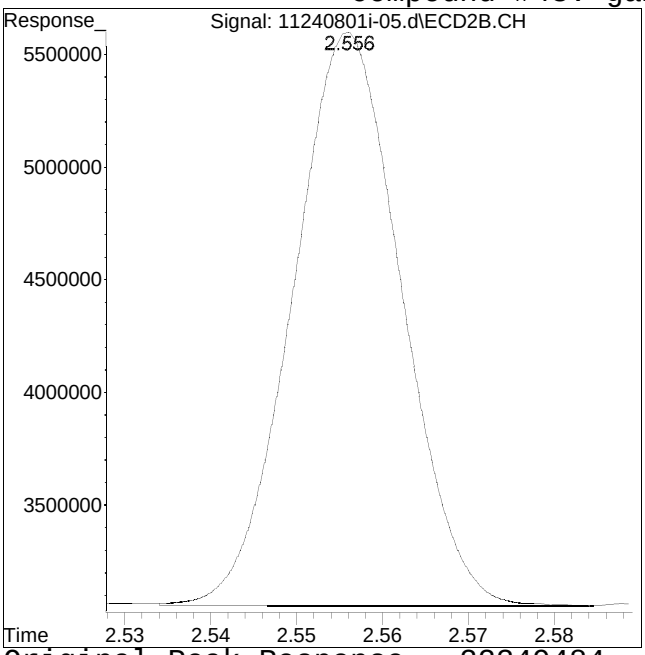
Manual Peak Response = 24518590 M4

M4 = Poor automated baseline construction.

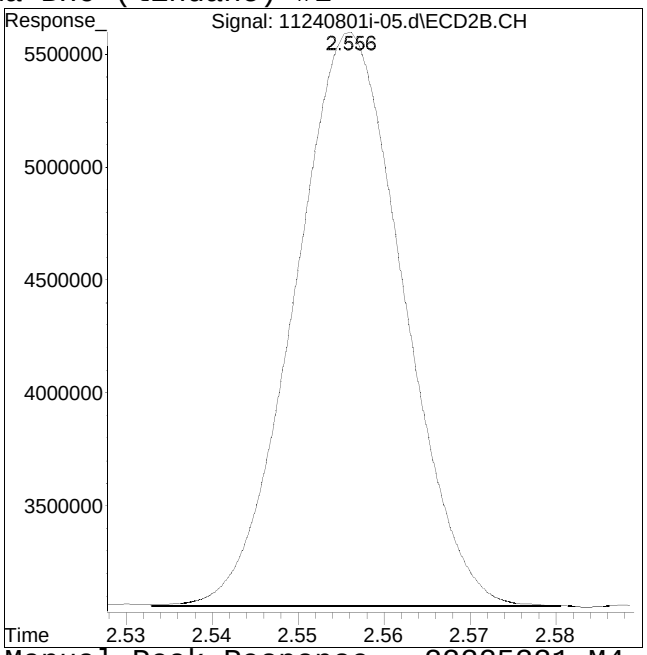
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 22349484



Manual Peak Response = 22225331 M4

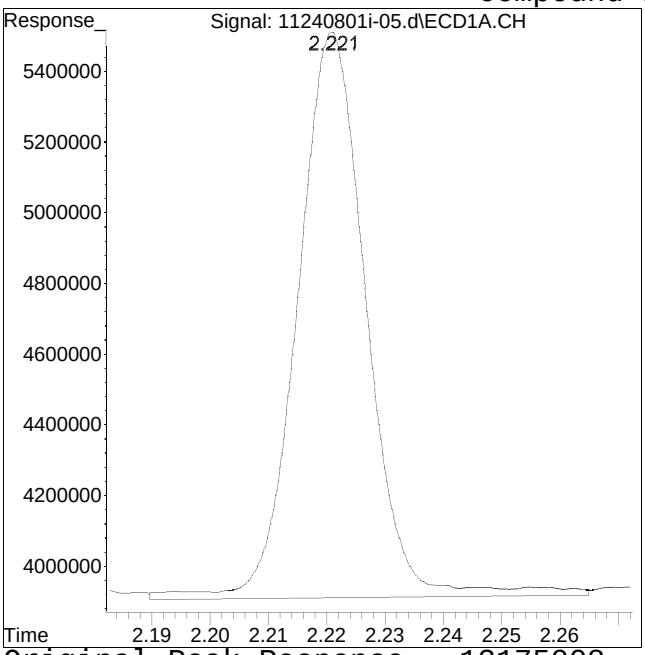
M4 = Poor automated baseline construction.

Manual Integration Report

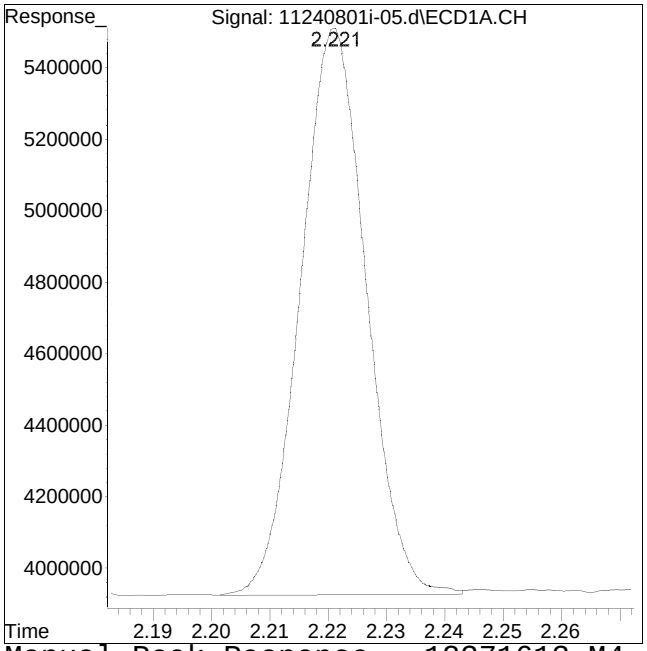
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #6: beta-BHC



Original Peak Response = 13175008



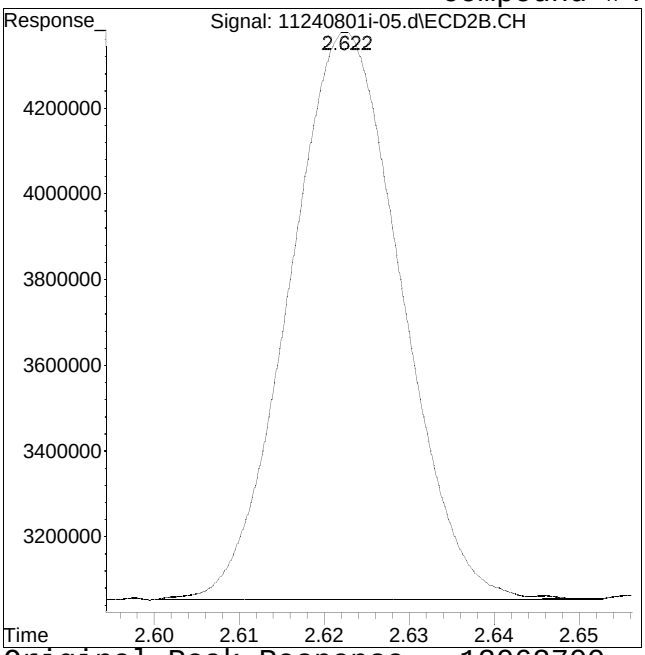
Manual Peak Response = 12371613 M4

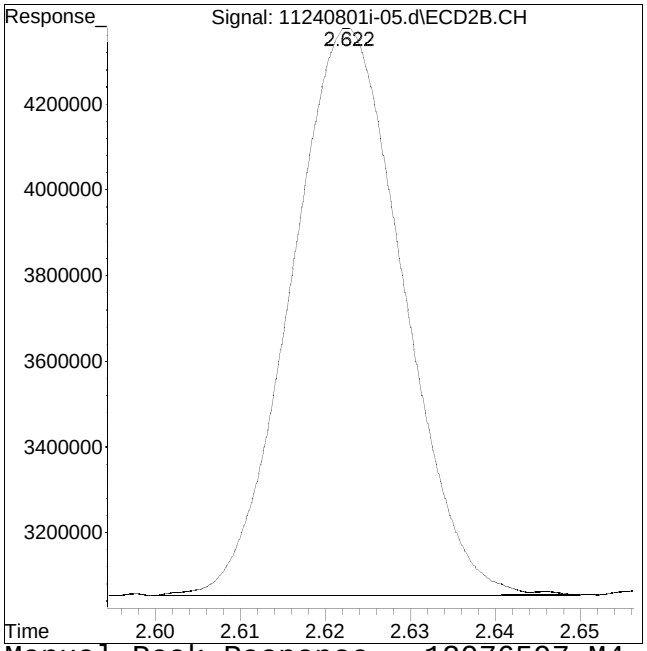
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #44: beta-BHC #2





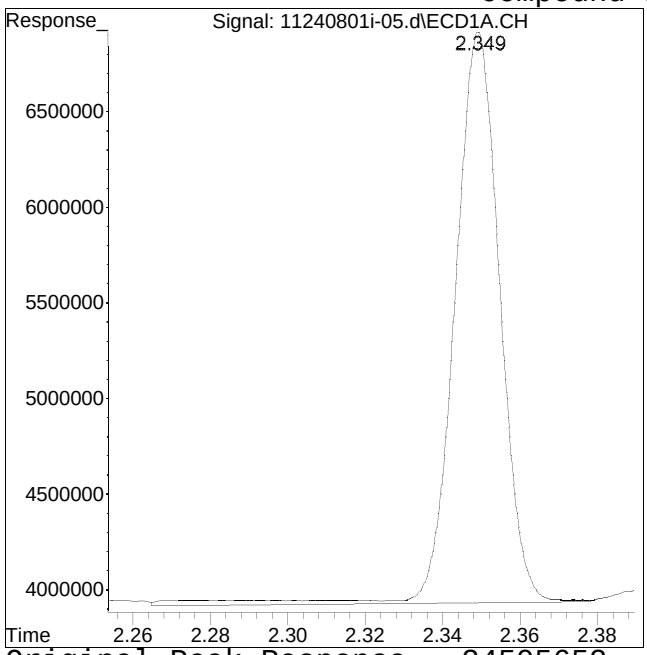
Original Peak Response = 12062700 Manual Peak Response = 12076597 M4
M4 = Poor automated baseline construction.

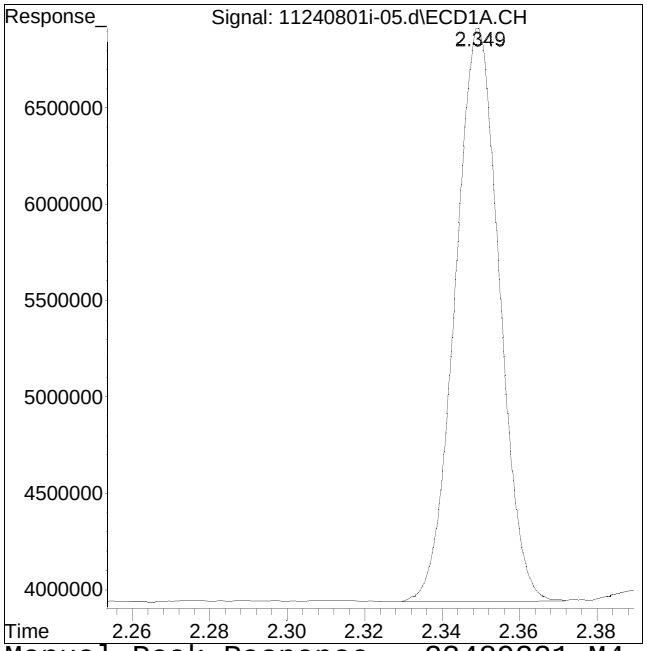
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #7: delta-BHC



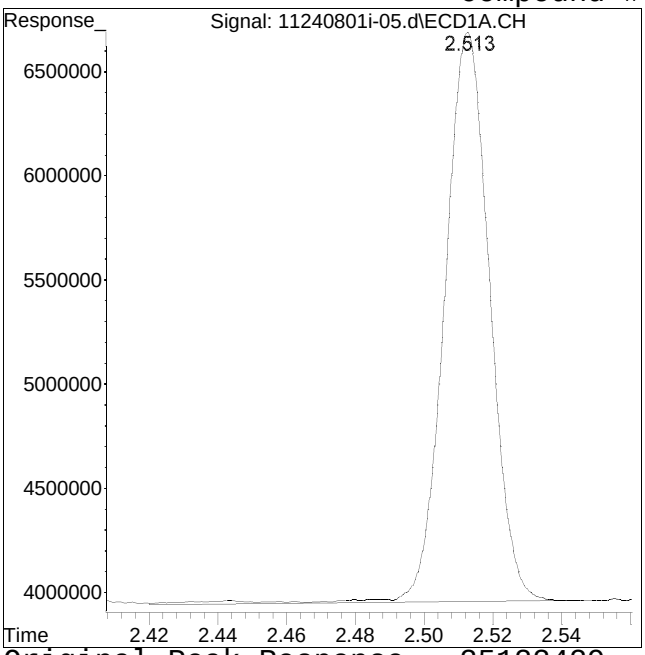


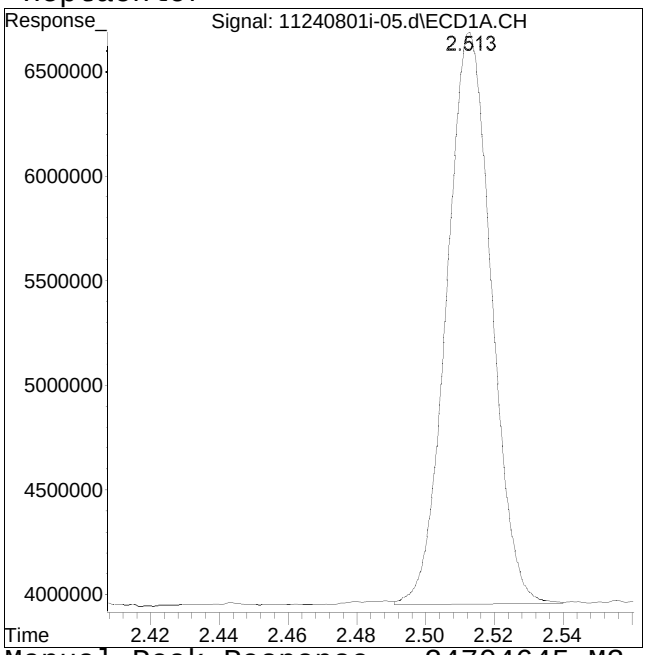
Original Peak Response = 24505652 Manual Peak Response = 23489321 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #8: Heptachlor



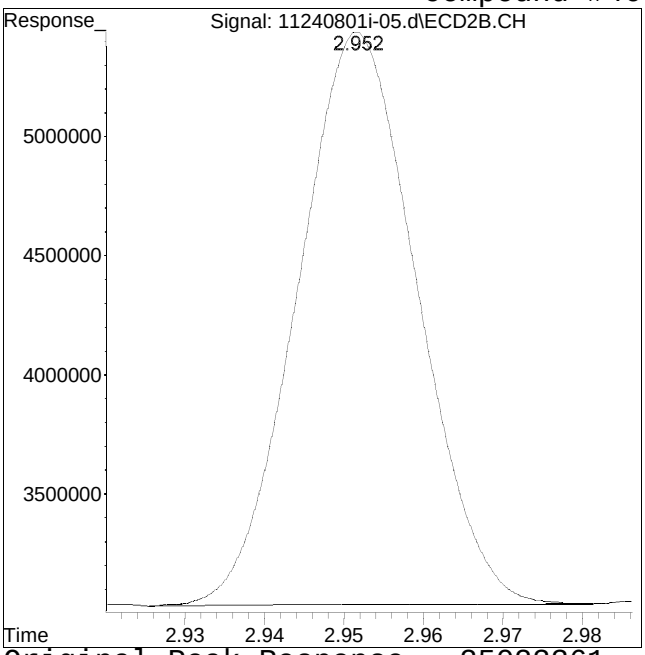


Original Peak Response = 25122429 Manual Peak Response = 24704645 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

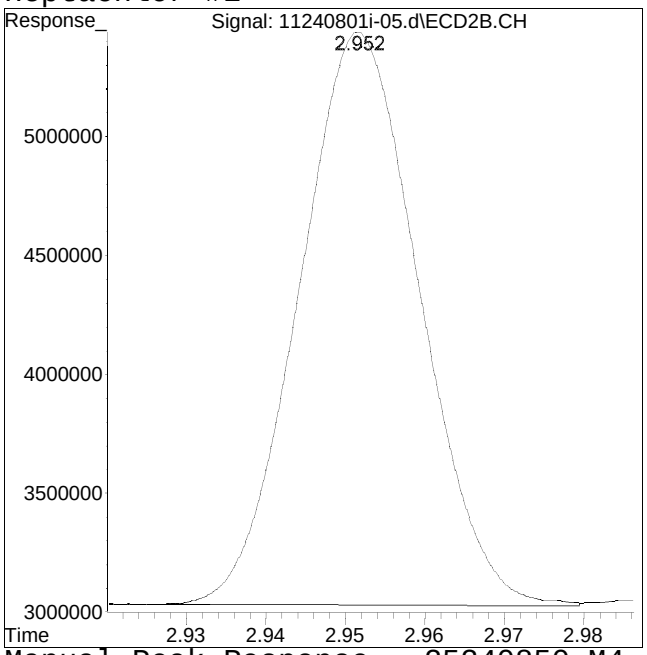
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #46: Heptachlor #2



Original Peak Response = 25023361



Manual Peak Response = 25240850 M4

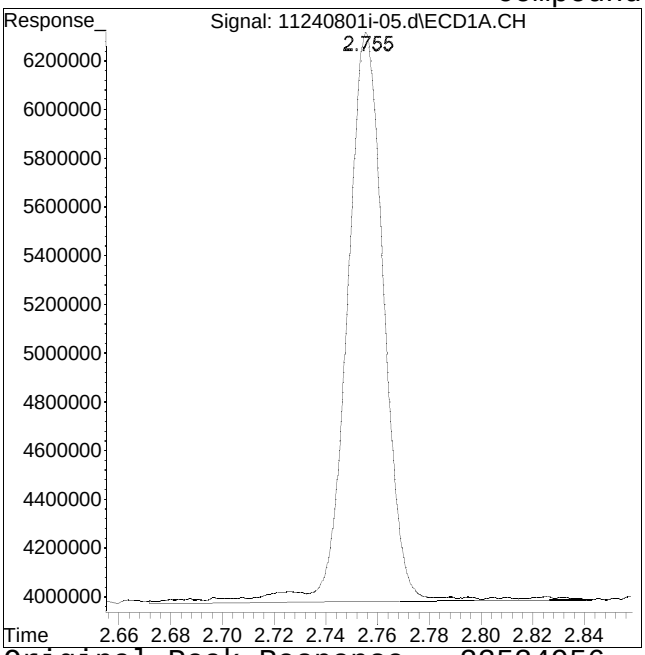
M4 = Poor automated baseline construction.

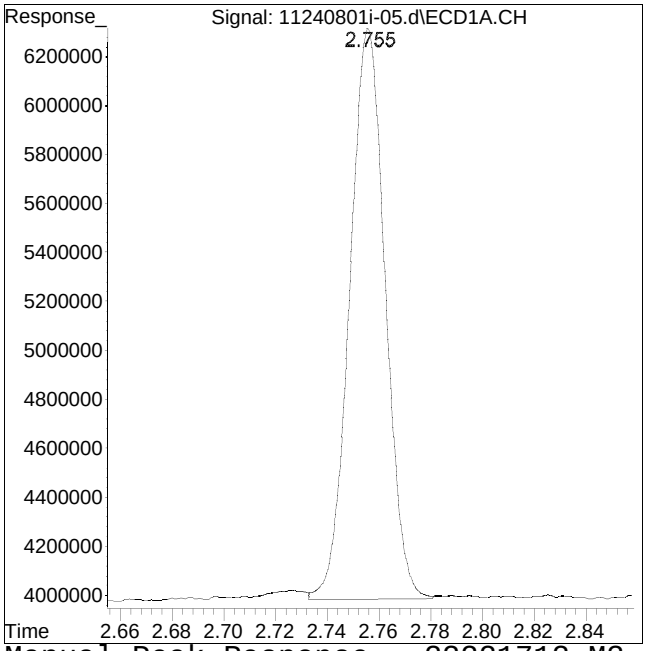
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #9: Aldrin





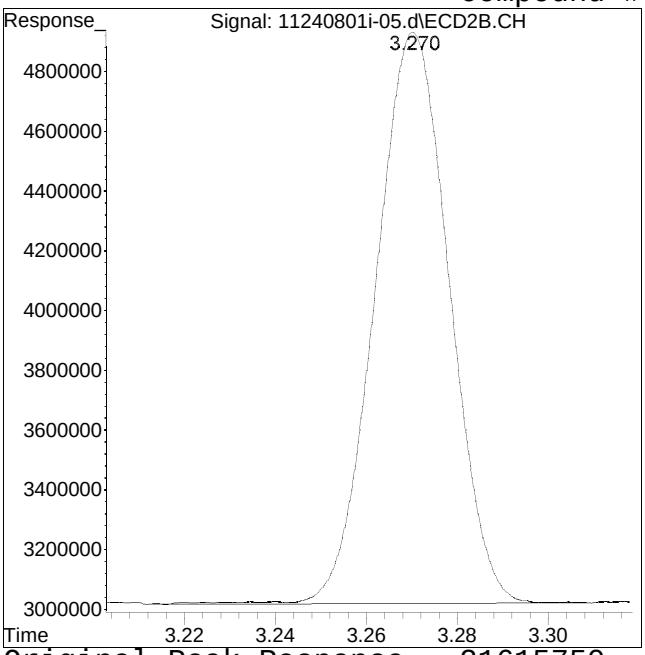
Original Peak Response = 23534956 Manual Peak Response = 22221712 M3

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

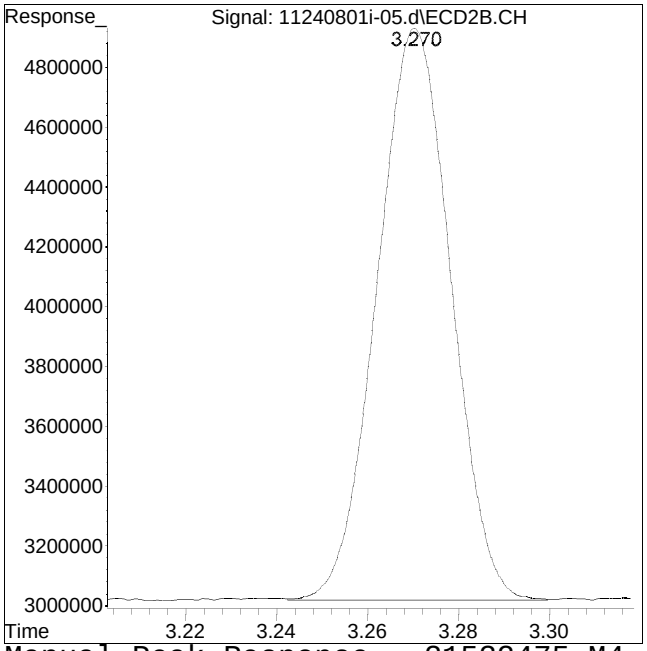
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #47: Aldrin #2



Original Peak Response = 21615750



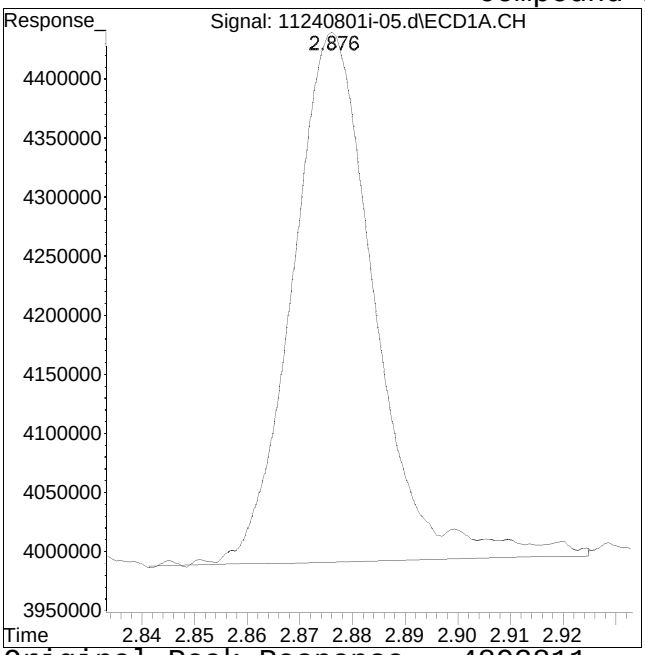
Manual Peak Response = 21532475 M4

M4 = Poor automated baseline construction.

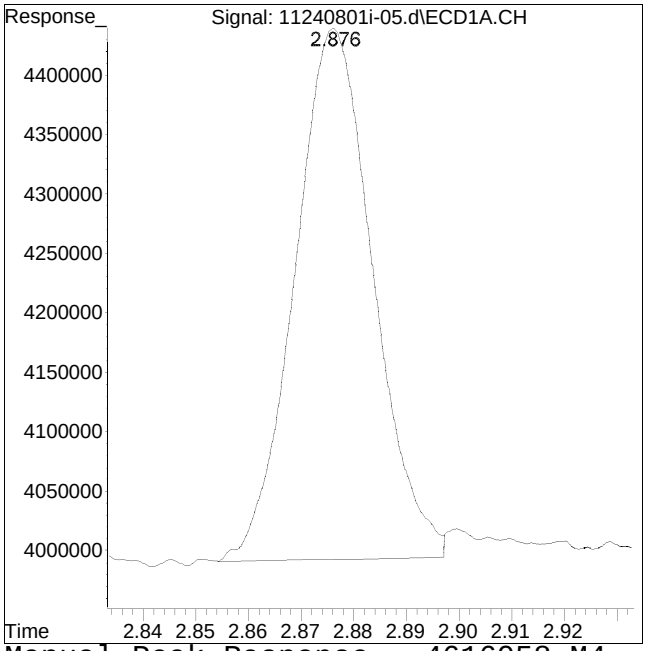
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #10: Alachlor



Original Peak Response = 4893811



Manual Peak Response = 4616058 M4

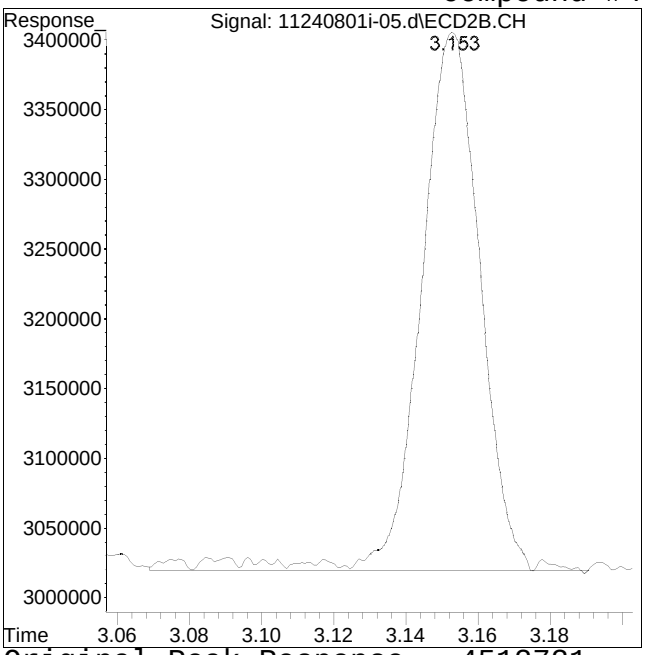
M4 = Poor automated baseline construction.

Manual Integration Report

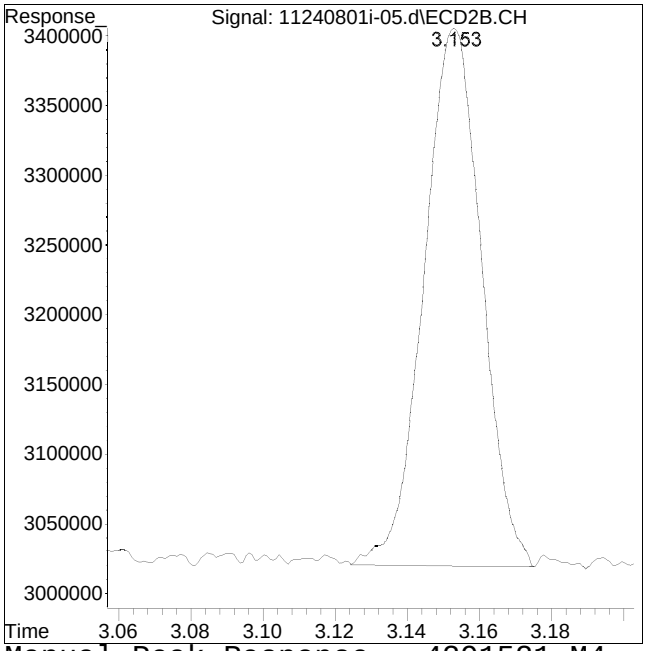
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #48: Alachlor #2



Original Peak Response = 4512721



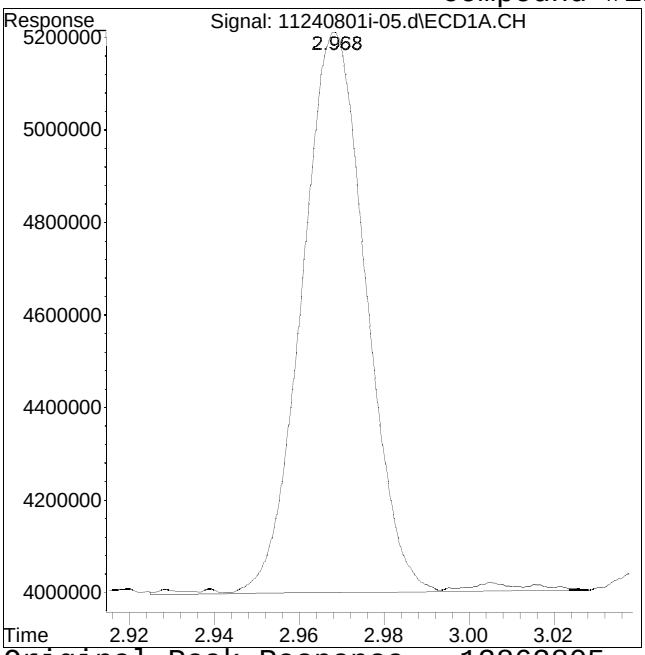
Manual Peak Response = 4291521 M4

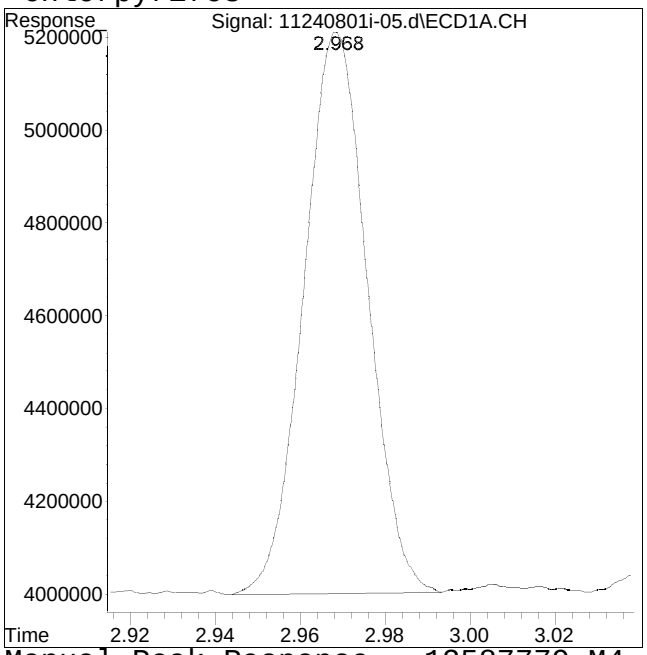
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #11: Chlorpyrifos



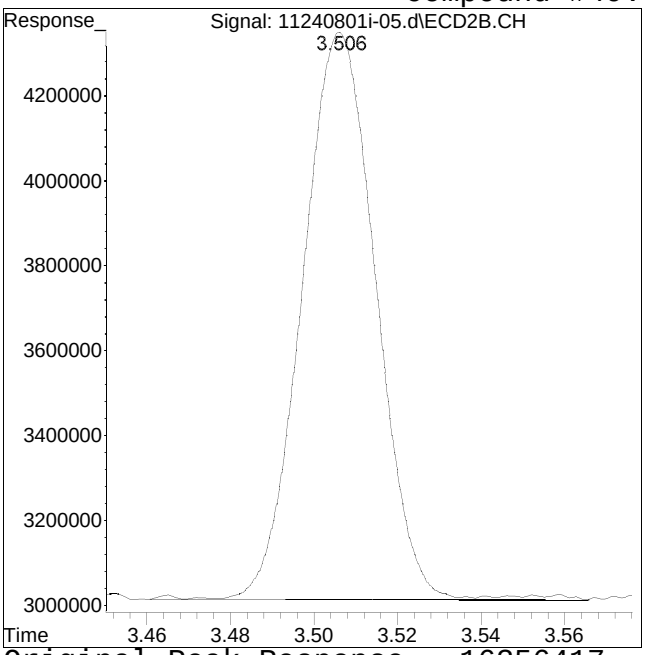


Original Peak Response = 12863805 Manual Peak Response = 12587779 M4
M4 = Poor automated baseline construction.

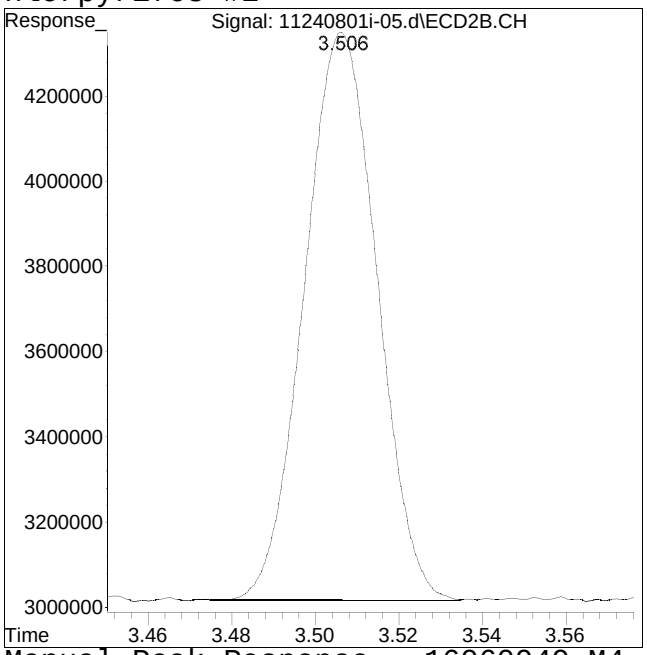
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 16356417



Manual Peak Response = 16060949 M4

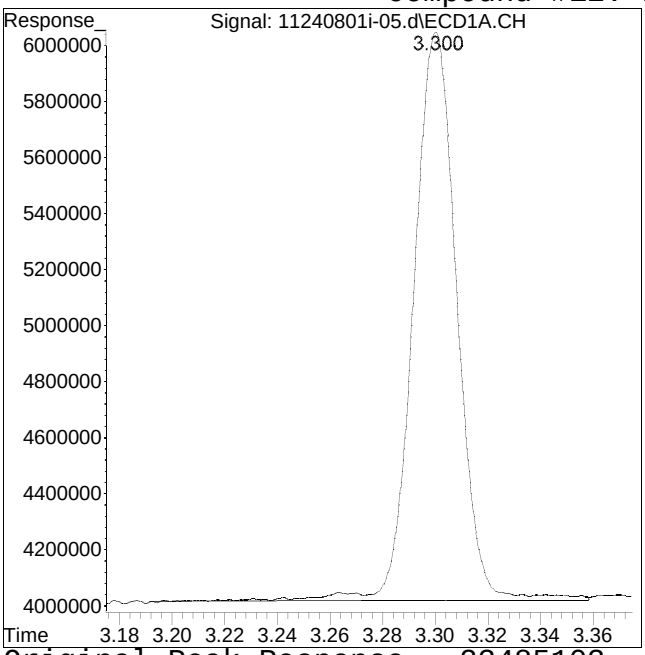
M4 = Poor automated baseline construction.

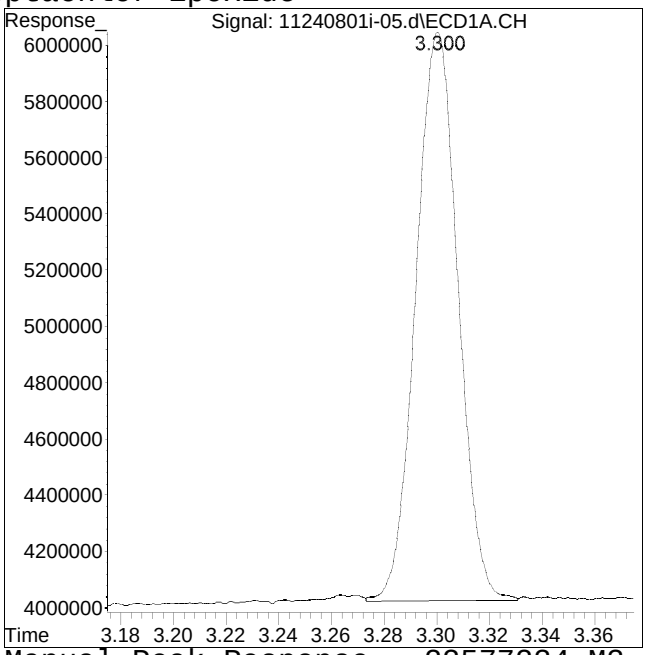
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #12: Heptachlor Epoxide





Original Peak Response = 23485103 Manual Peak Response = 22577234 M3

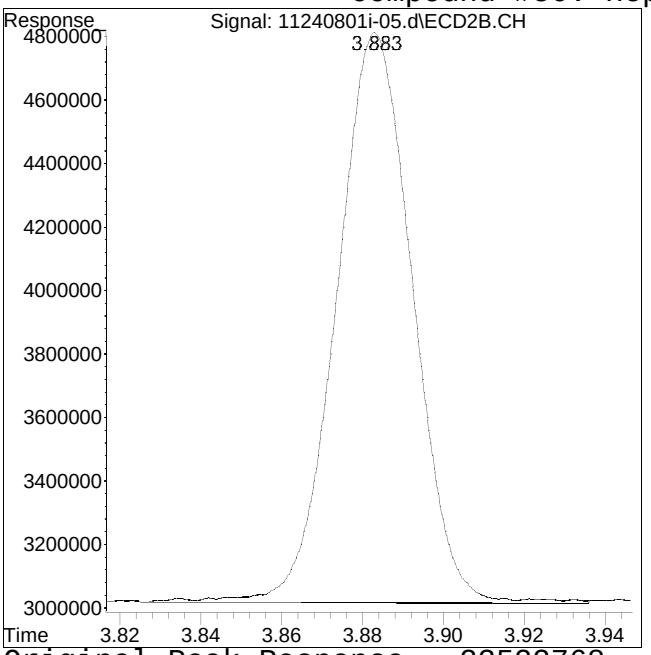
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

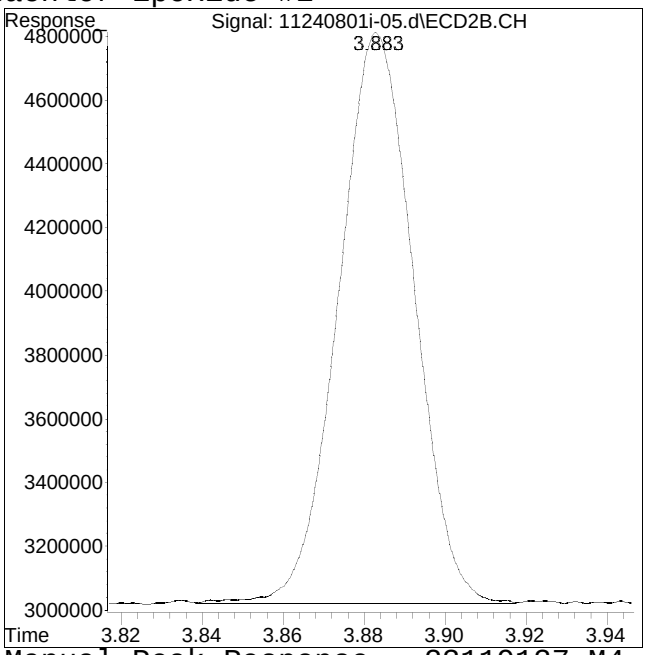
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #50: Heptachlor Epoxide #2



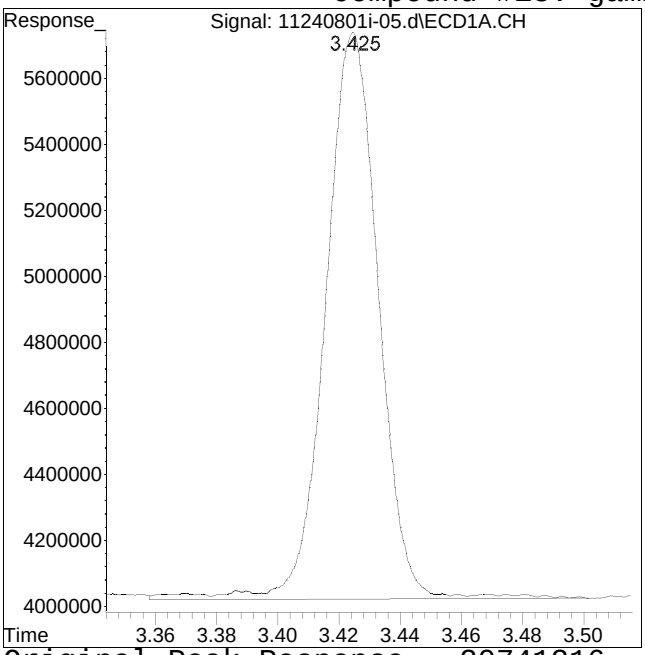


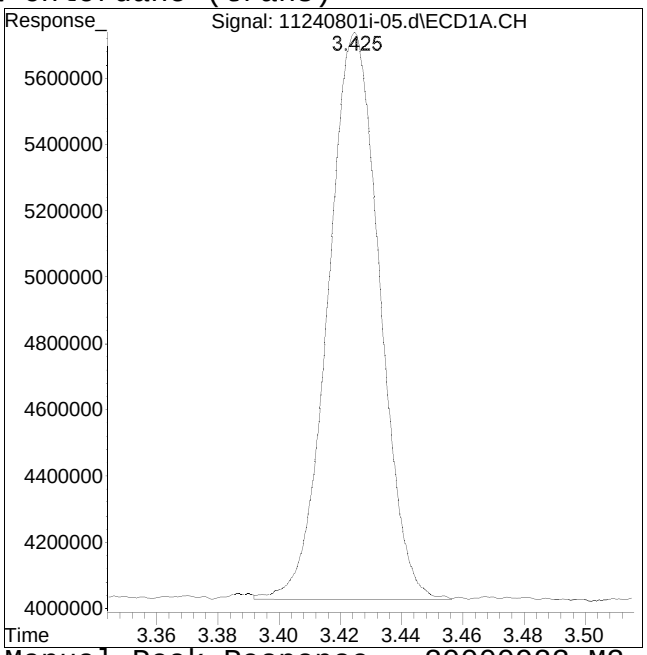
Original Peak Response = 23522768 Manual Peak Response = 23119137 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #13: gamma-Chlordane (trans)



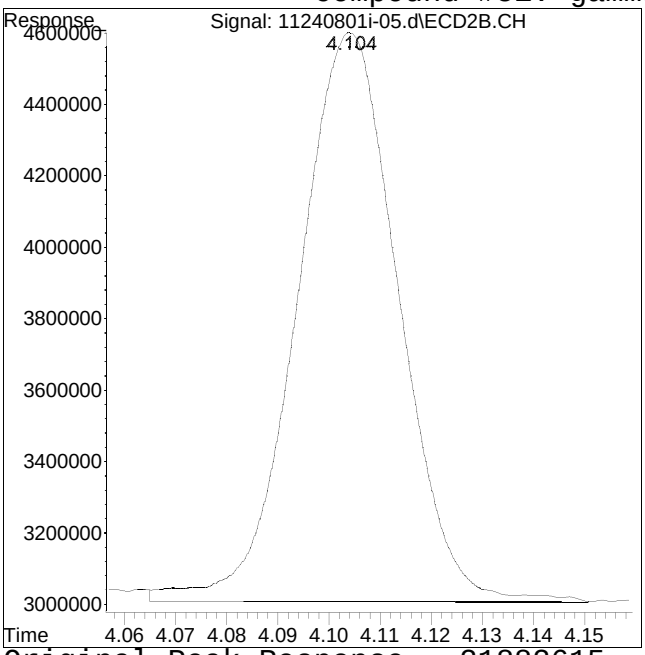


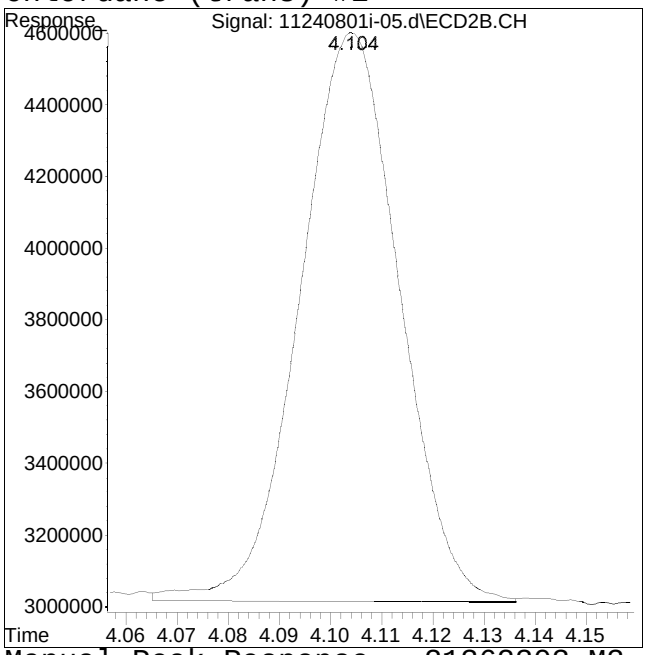
Original Peak Response = 20741216 Manual Peak Response = 20000923 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #51: gamma-Chlordane (trans) #2





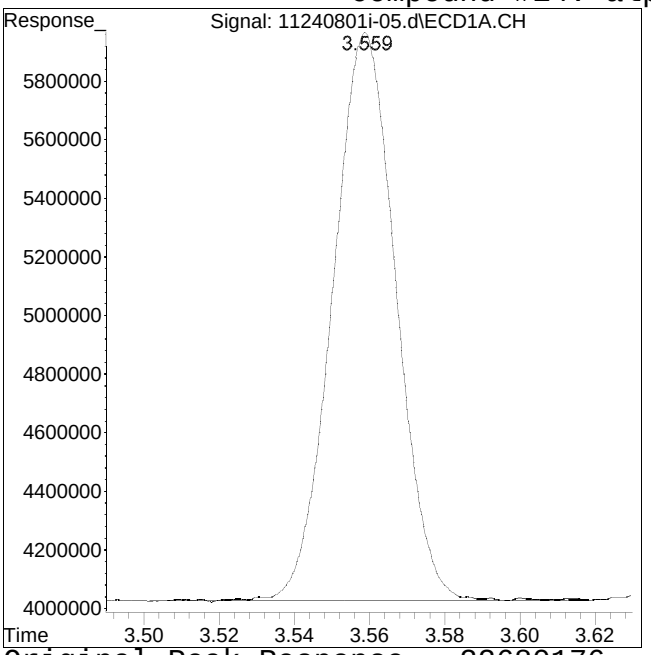
Original Peak Response = 21882615 Manual Peak Response = 21362303 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

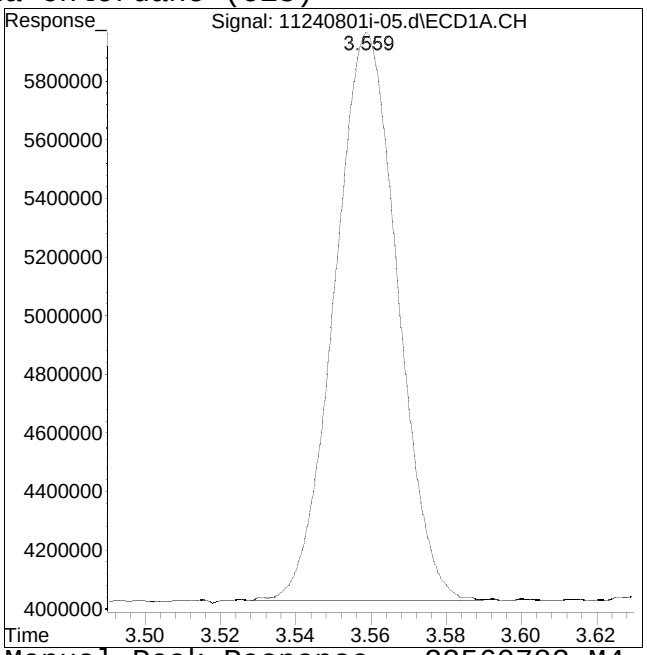
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 22680176



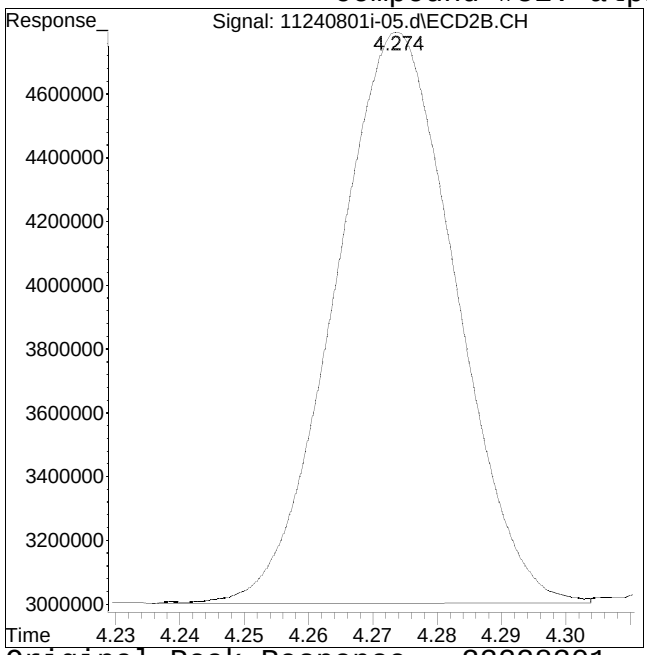
Manual Peak Response = 22560782 M4

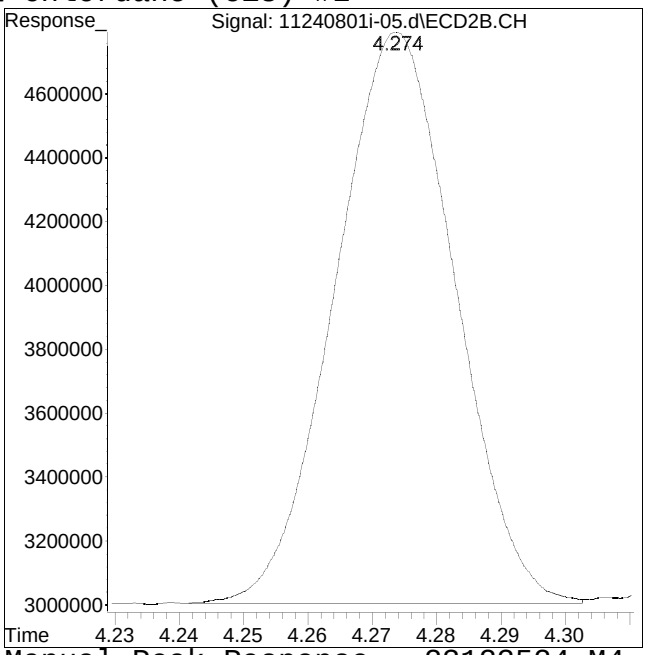
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #52: alpha-Chlordane (cis) #2





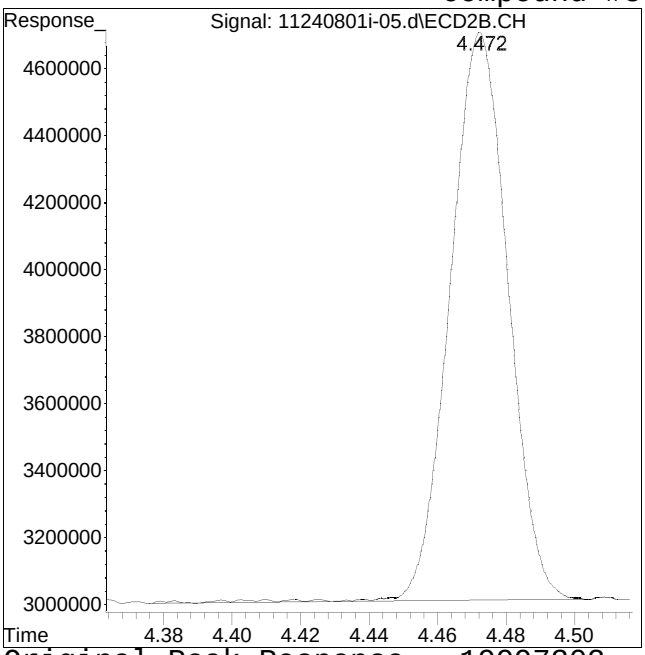
Original Peak Response = 23228301 Manual Peak Response = 23123524 M4
M4 = Poor automated baseline construction.

Manual Integration Report

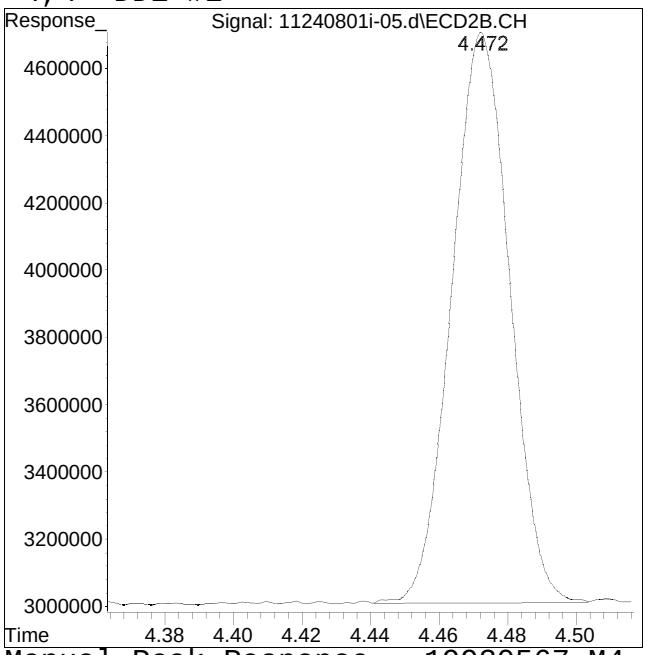
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 19997302



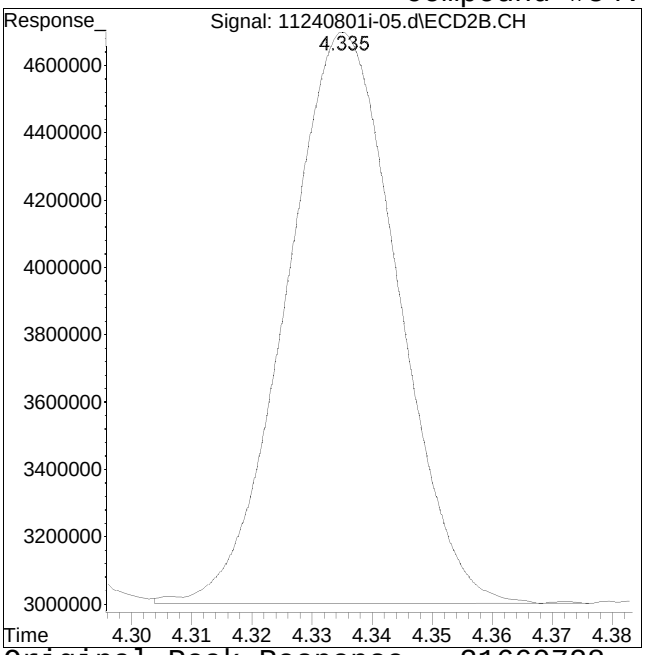
Manual Peak Response = 19930567 M4

M4 = Poor automated baseline construction.

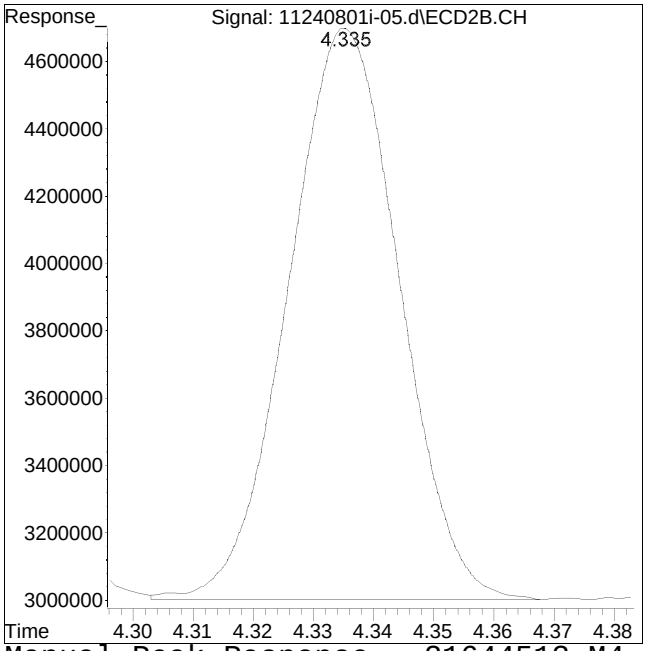
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #54: Endosulfan I #2



Original Peak Response = 21660728



Manual Peak Response = 21644513 M4

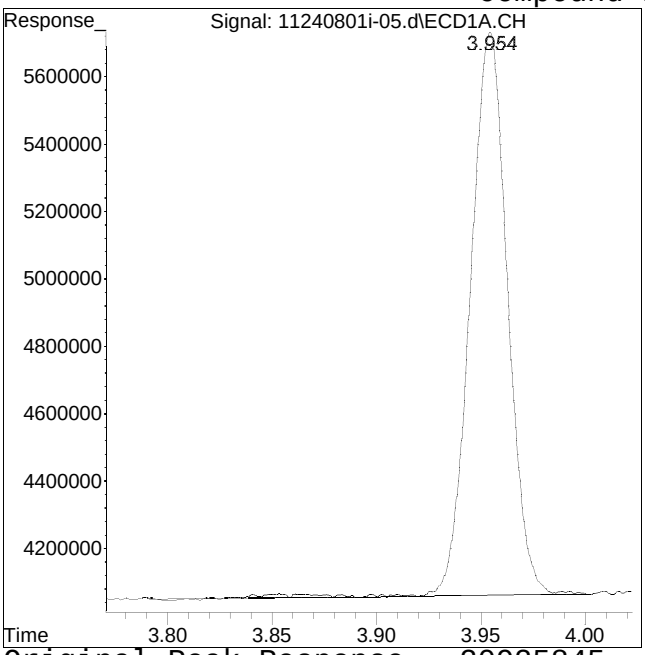
M4 = Poor automated baseline construction.

Manual Integration Report

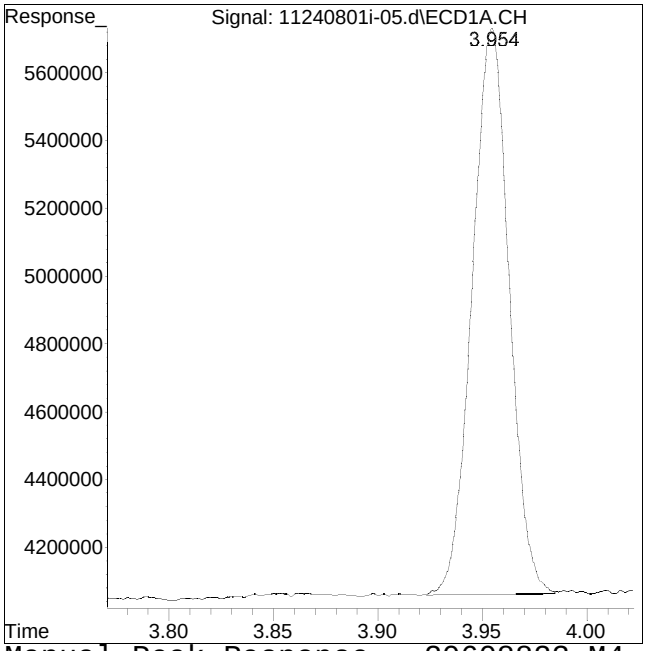
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #17: Dieldrin



Original Peak Response = 20925845



Manual Peak Response = 20608823 M4

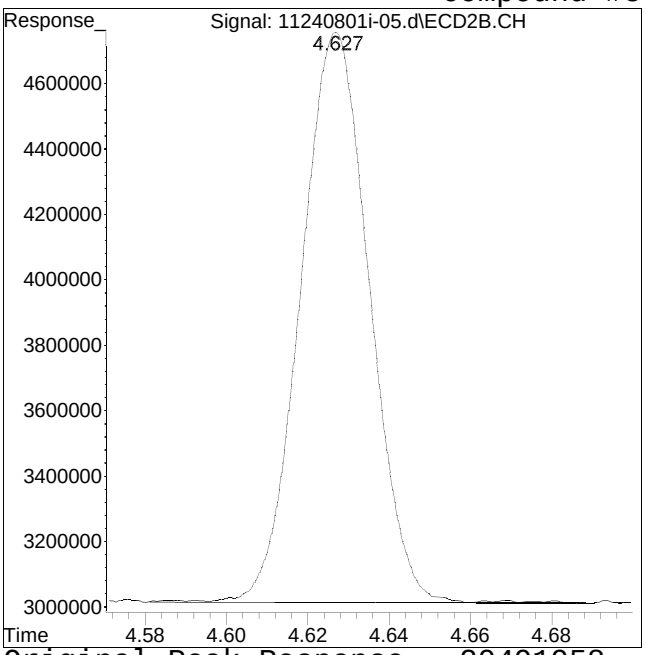
M4 = Poor automated baseline construction.

Manual Integration Report

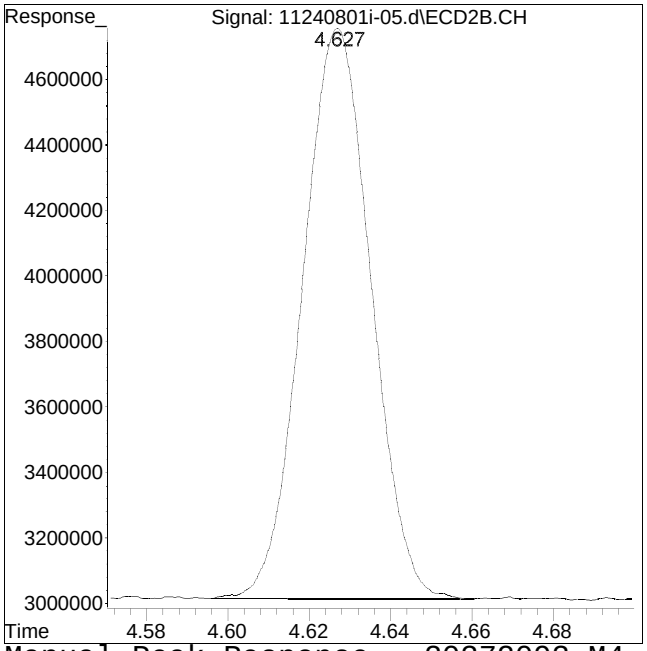
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #55: Dieldrin #2



Original Peak Response = 20491958



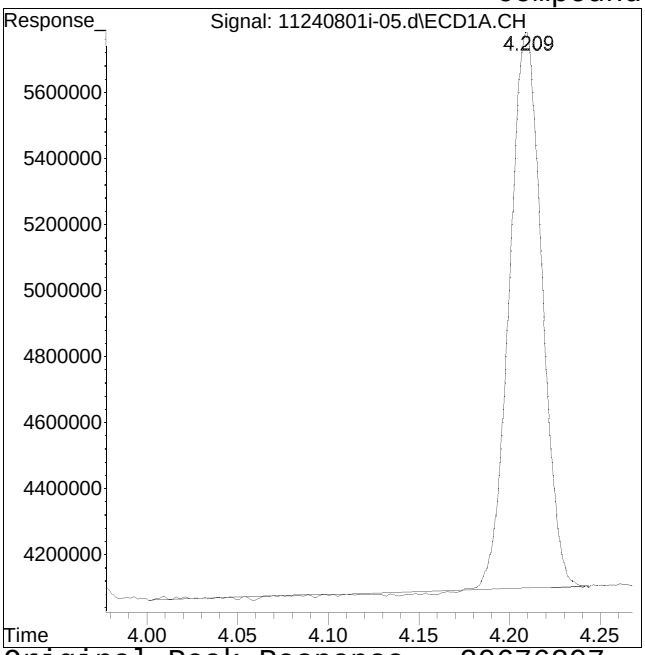
Manual Peak Response = 20372093 M4

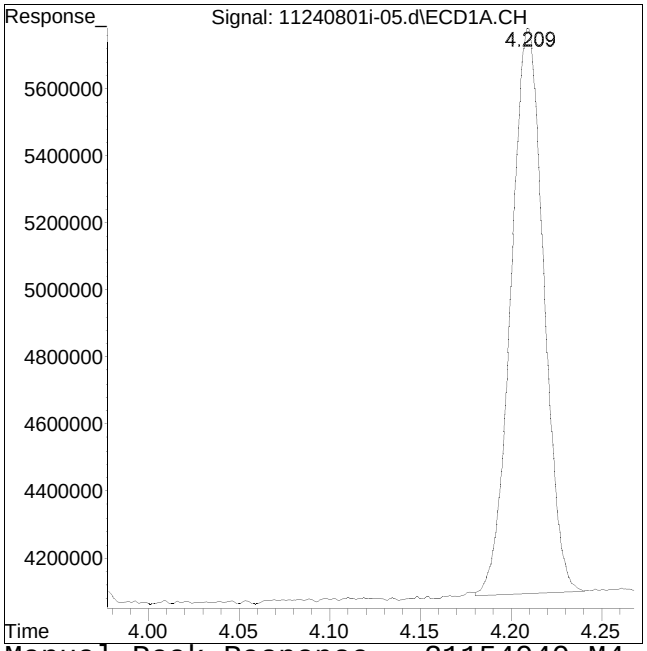
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #18: Endrin





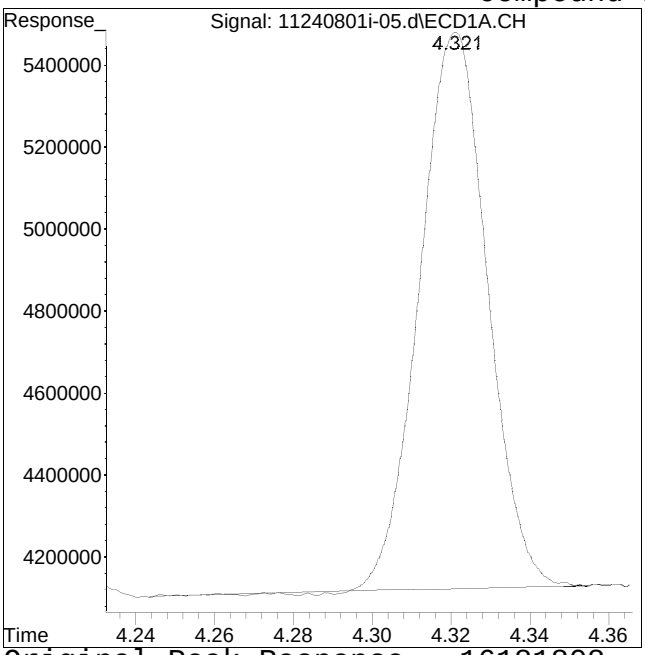
Original Peak Response = 20676297 Manual Peak Response = 21154040 M4
M4 = Poor automated baseline construction.

Manual Integration Report

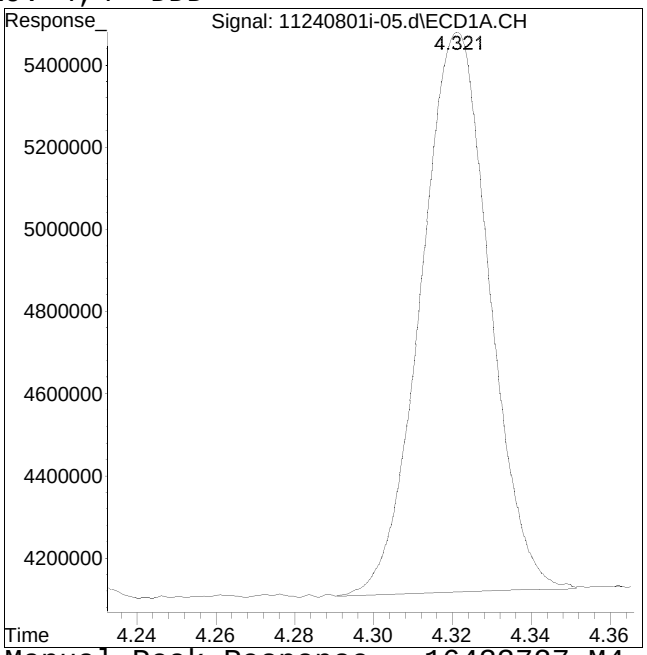
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #19: 4,4'-DDD



Original Peak Response = 16181808



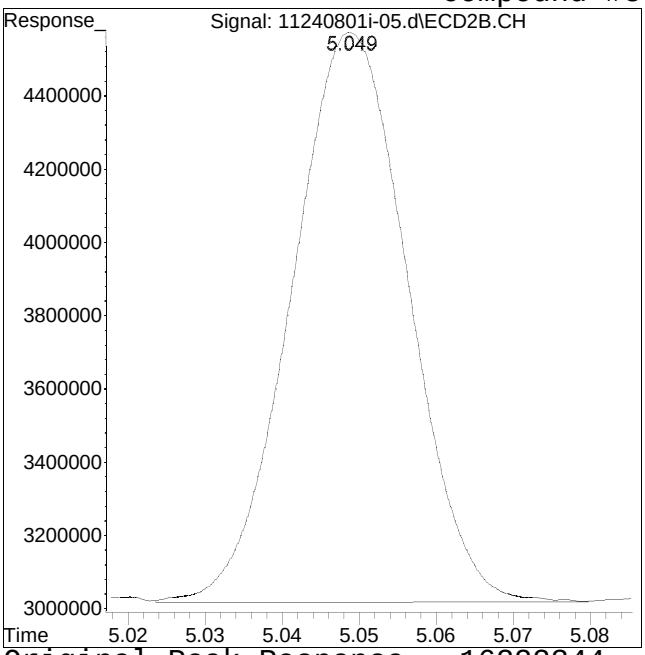
Manual Peak Response = 16433727 M4

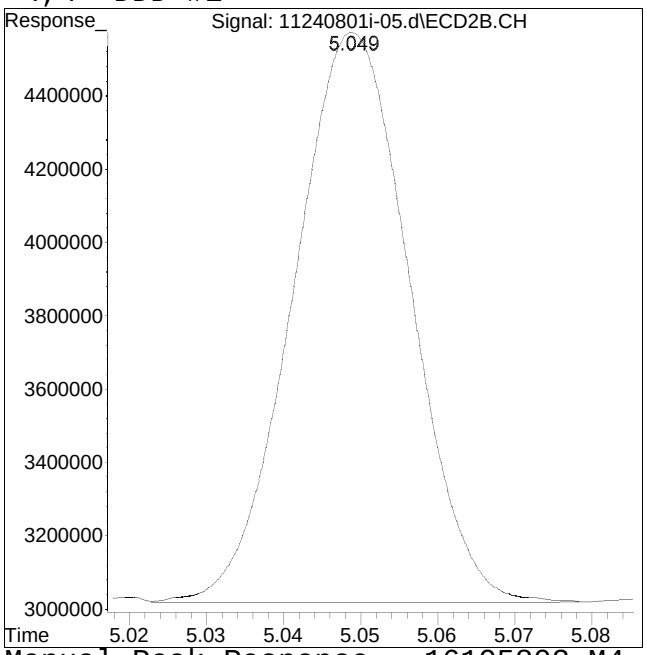
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #57: 4,4'-DDD #2



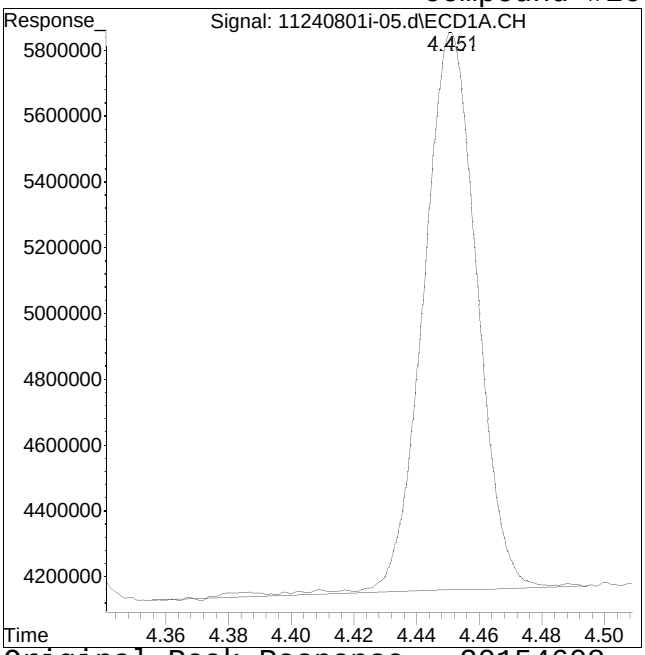


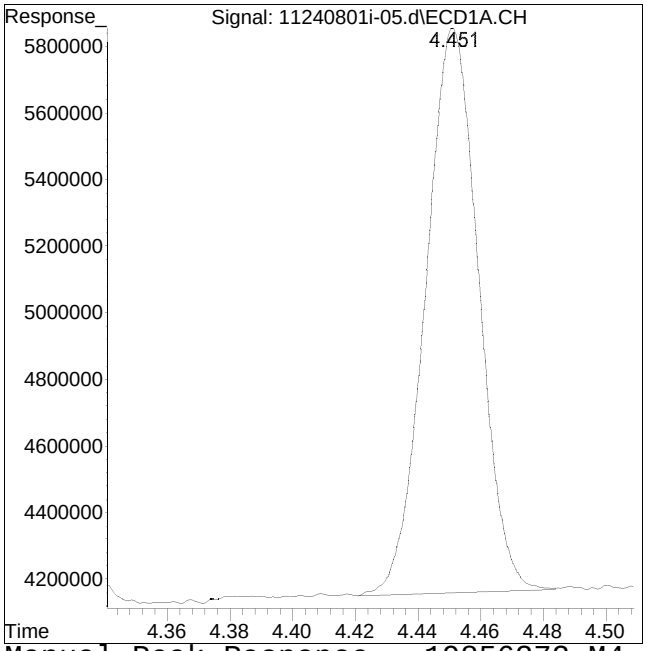
Original Peak Response = 16222344 Manual Peak Response = 16195802 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #20: Endosulfan II



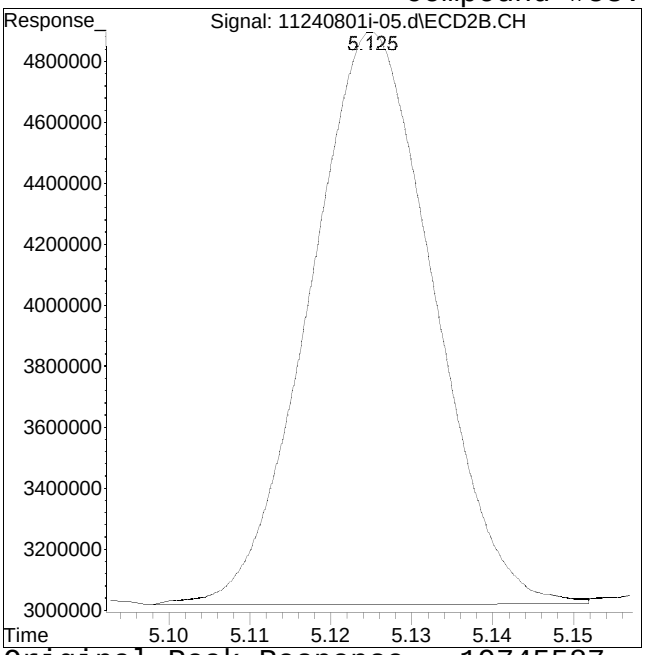


Original Peak Response = 20154608 Manual Peak Response = 19856372 M4
M4 = Poor automated baseline construction.

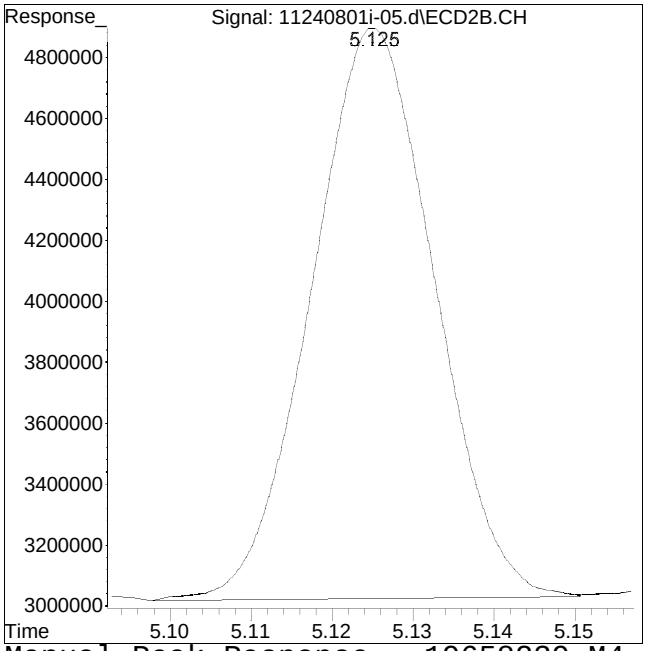
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #58: Endosulfan II #2



Original Peak Response = 19745587



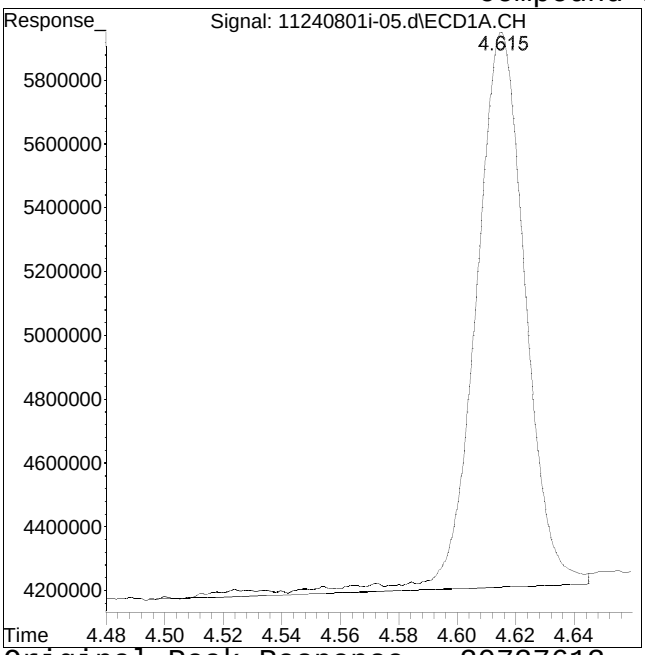
Manual Peak Response = 19658239 M4
M4 = Poor automated baseline construction.

Manual Integration Report

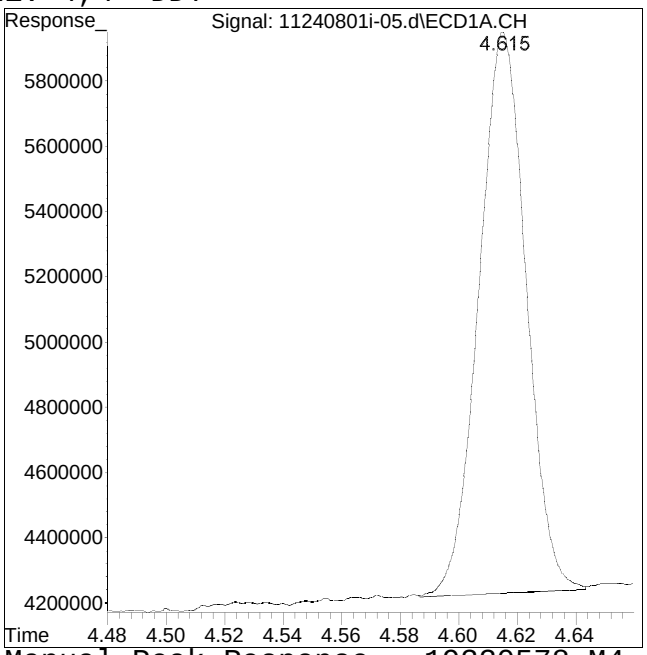
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #21: 4,4'-DDT



Original Peak Response = 20737613



Manual Peak Response = 19330578 M4

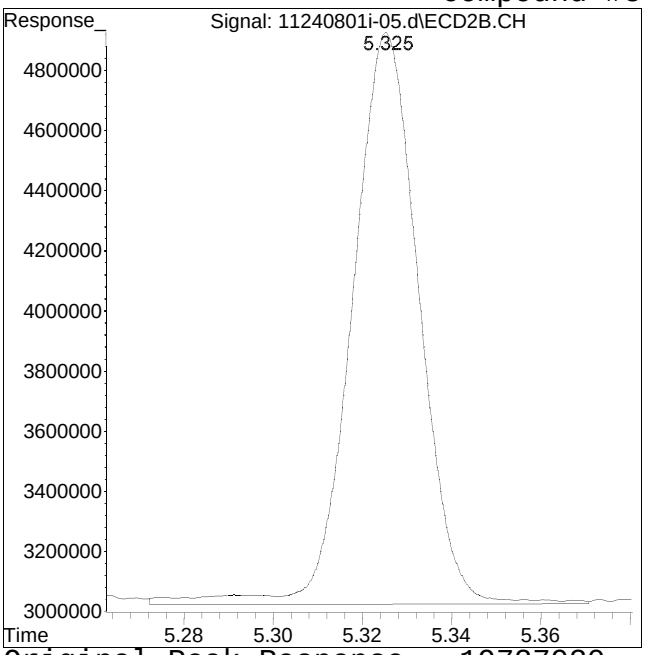
M4 = Poor automated baseline construction.

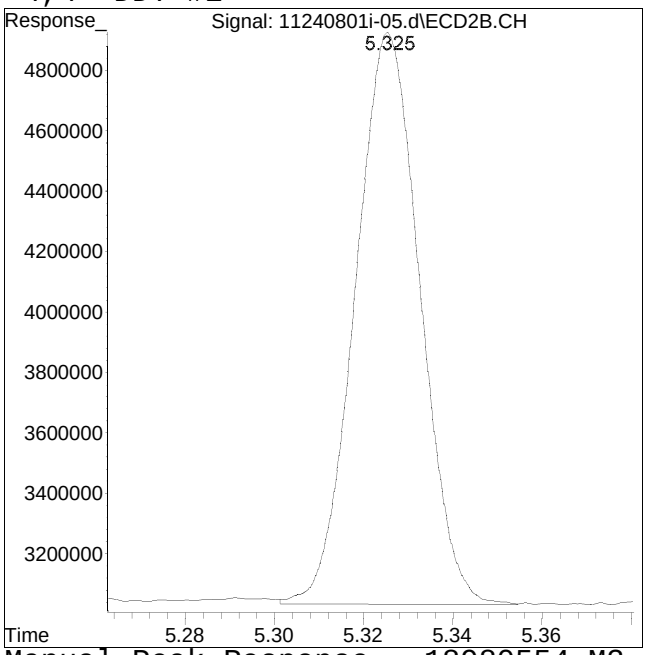
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #59: 4,4'-DDT #2





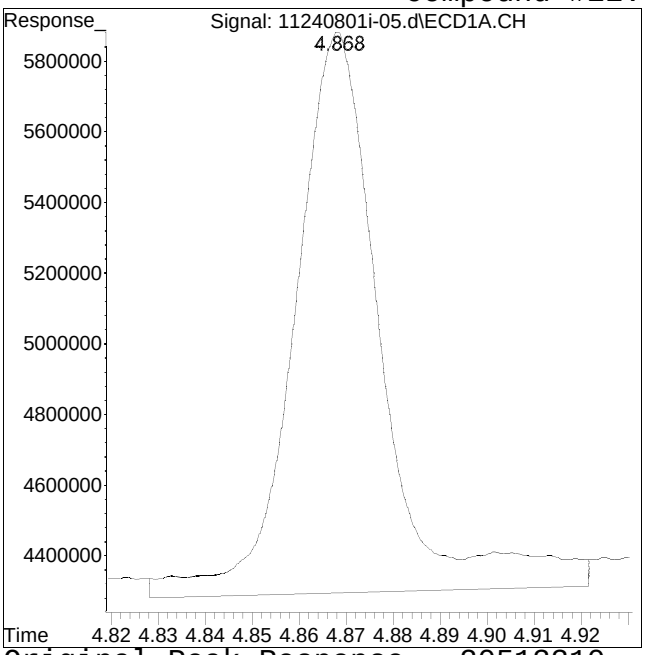
Original Peak Response = 19727930 Manual Peak Response = 18980554 M3

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

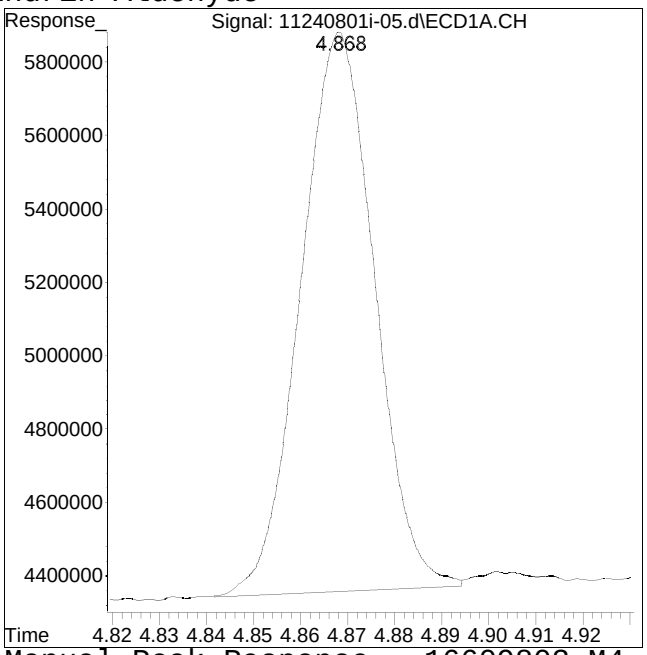
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #22: Endrin Aldehyde



Original Peak Response = 20513310



Manual Peak Response = 16609803 M4

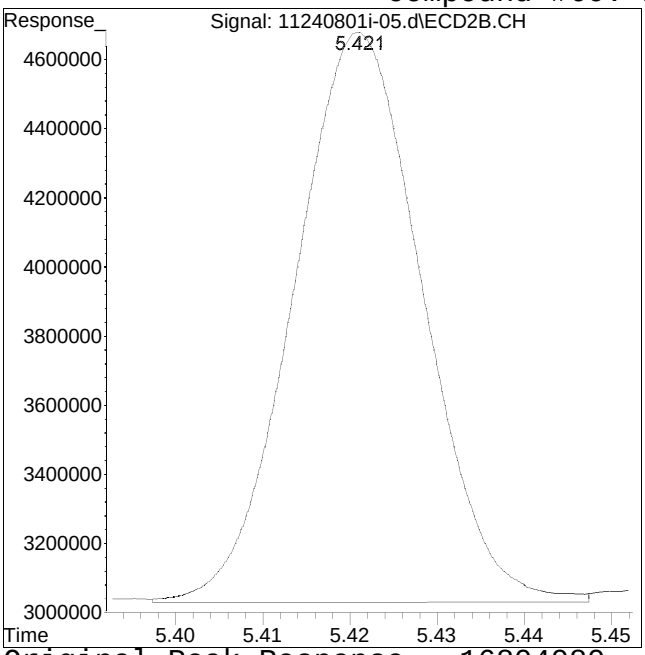
M4 = Poor automated baseline construction.

Manual Integration Report

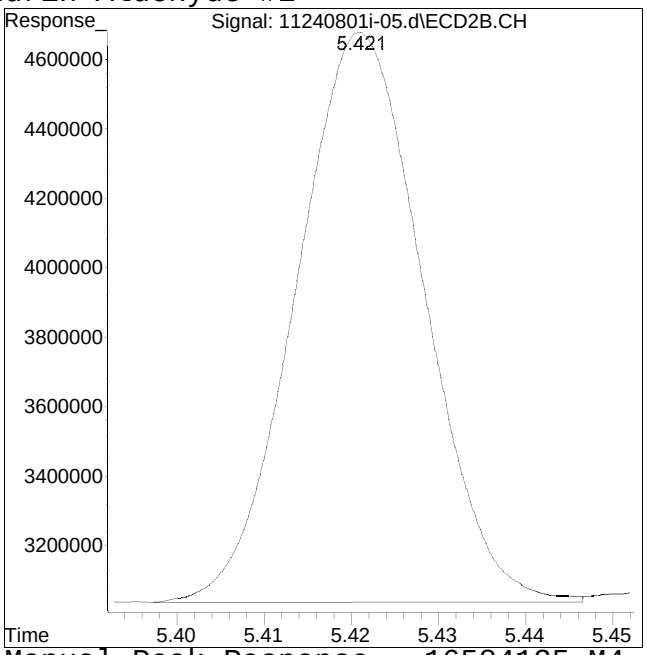
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 16804080



Manual Peak Response = 16584125 M4

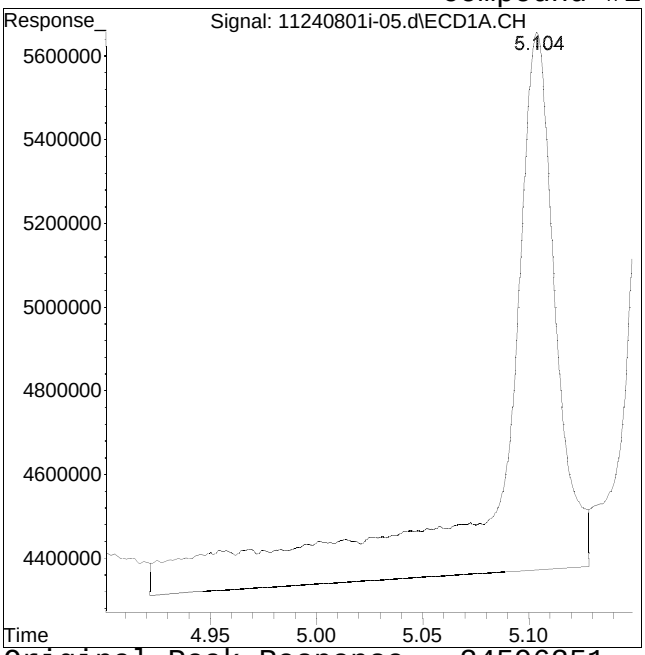
M4 = Poor automated baseline construction.

Manual Integration Report

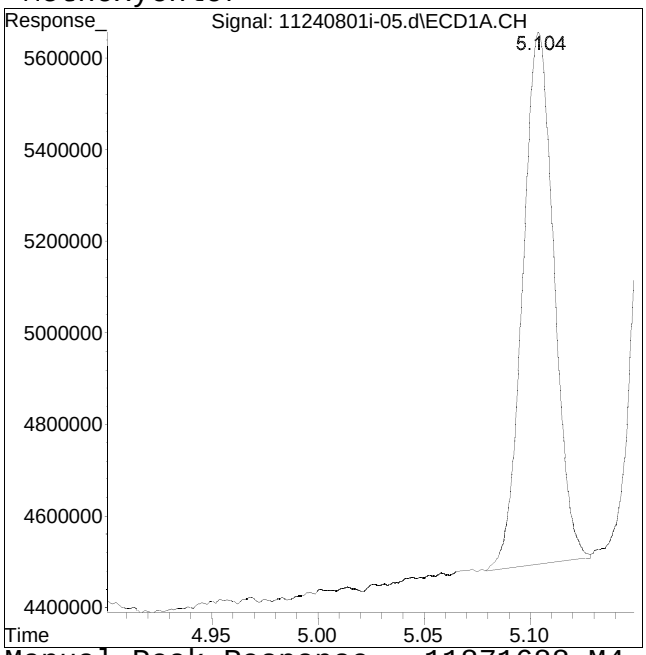
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #23: Methoxychlor



Original Peak Response = 24596251



Manual Peak Response = 11871688 M4

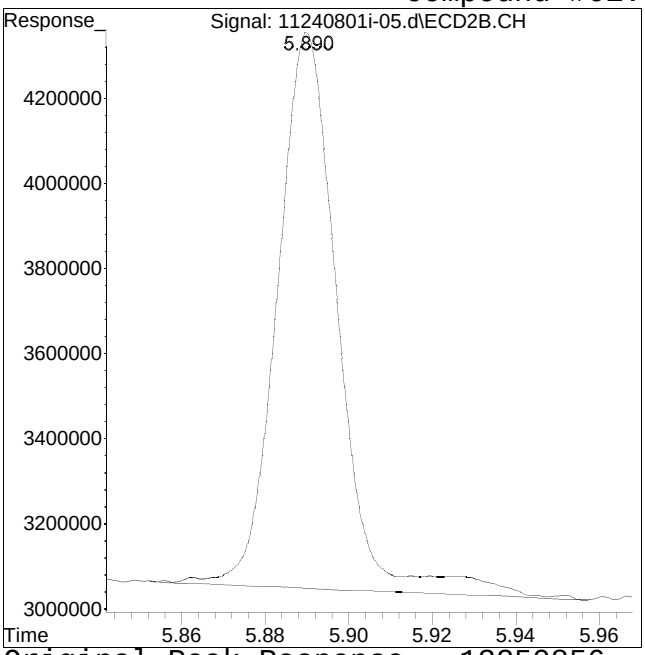
M4 = Poor automated baseline construction.

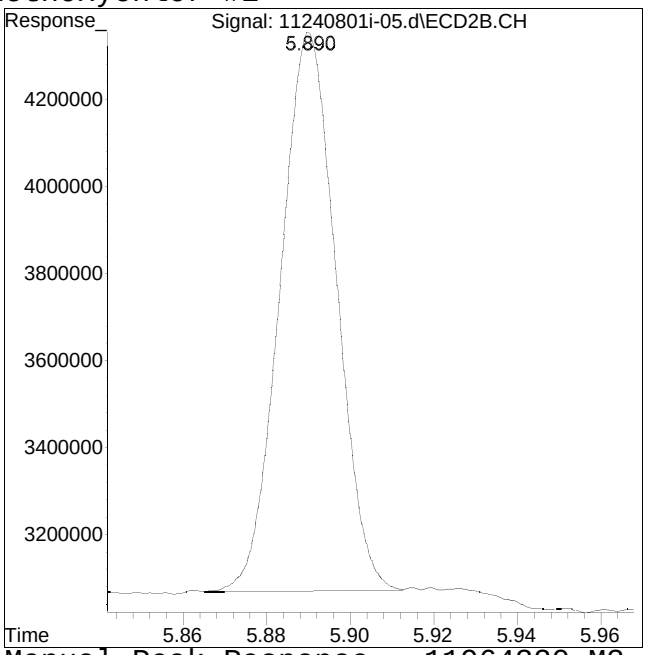
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #61: Methoxychlor #2





Original Peak Response = 13250856 Manual Peak Response = 11964320 M3

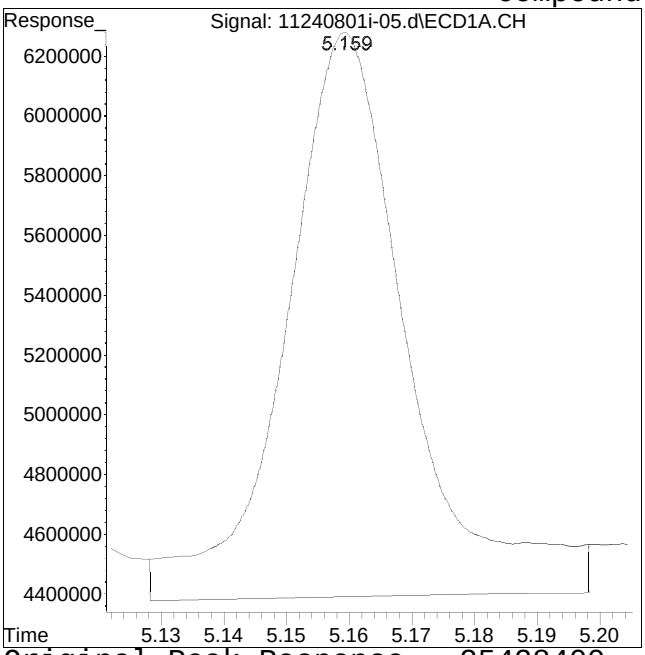
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

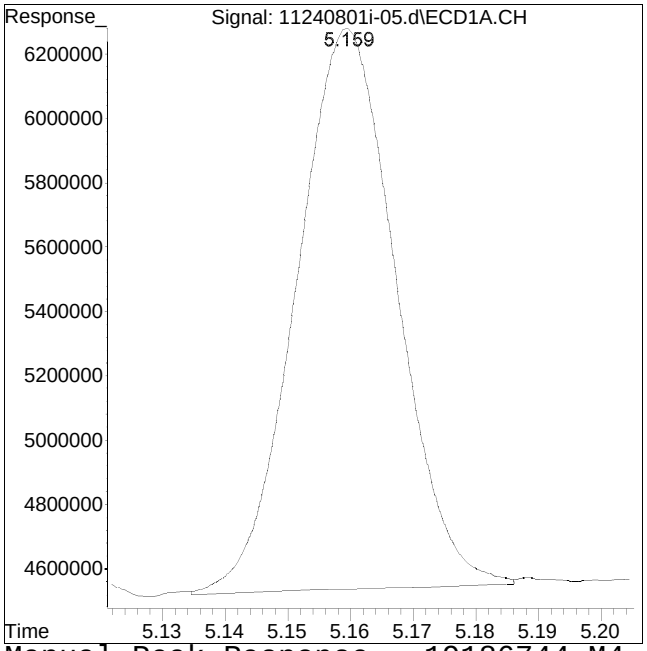
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #24: Mirex



Original Peak Response = 25428400



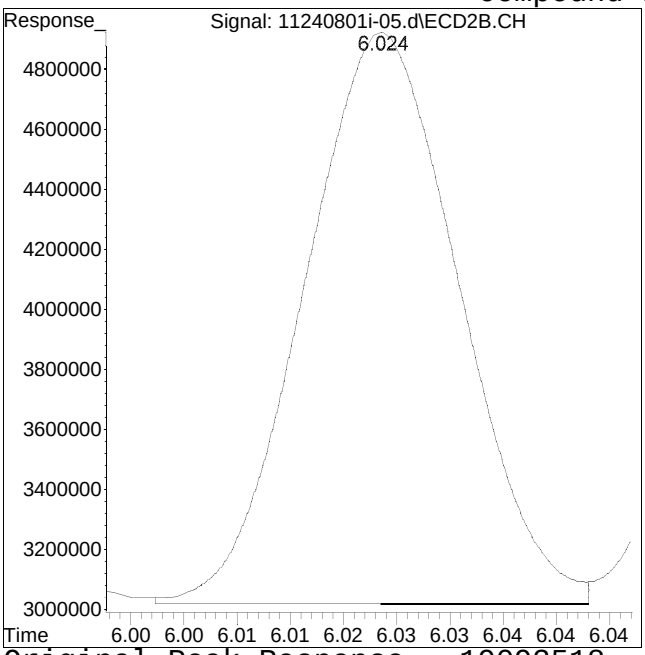
Manual Peak Response = 19186744 M4

M4 = Poor automated baseline construction.

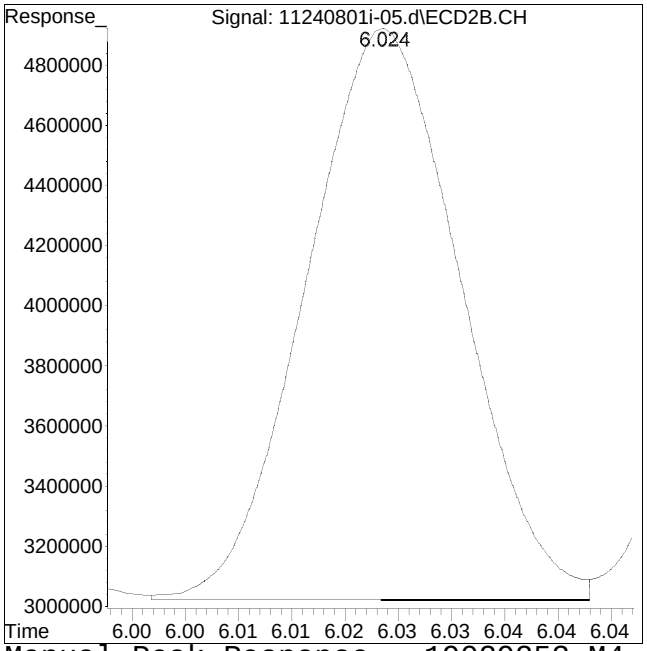
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #62: Mirex #2



Original Peak Response = 19093518



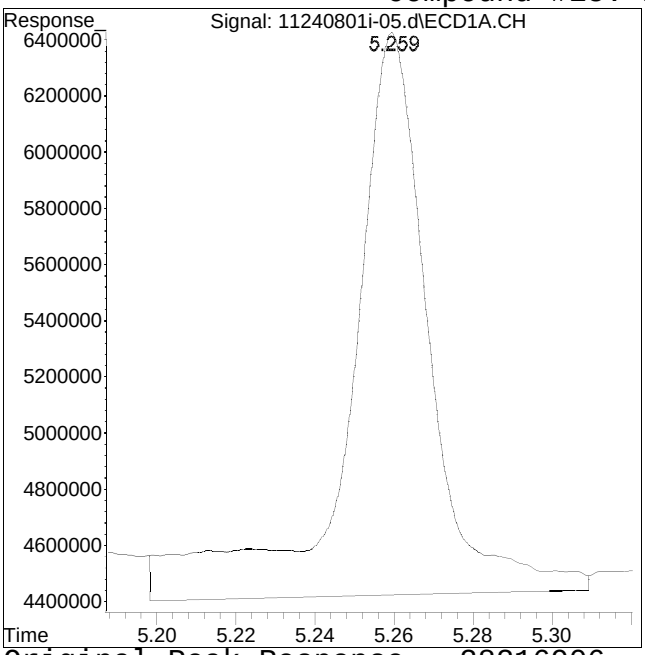
Manual Peak Response = 19029253 M4

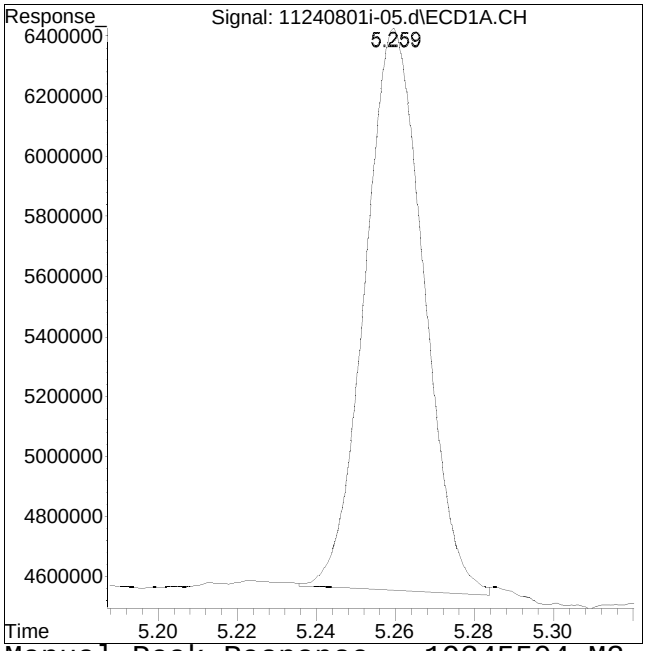
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #25: Endosulfan Sulfate



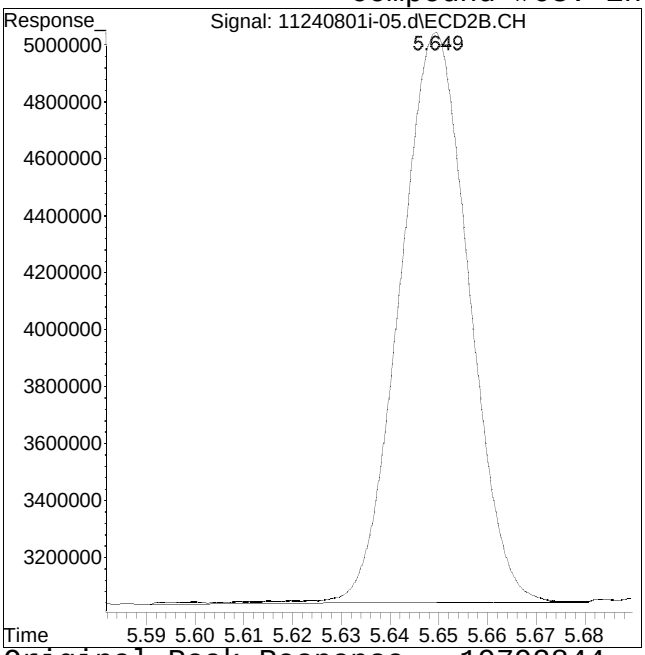


Original Peak Response = 28216906 Manual Peak Response = 19345504 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

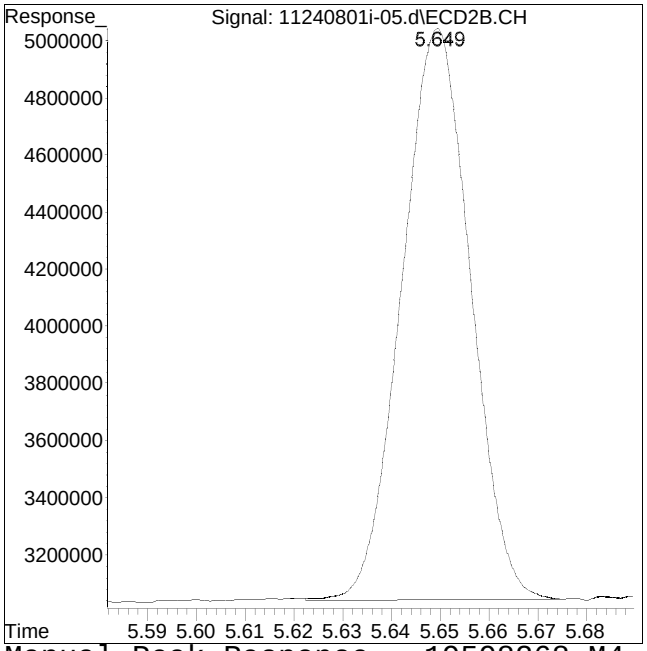
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 19792844



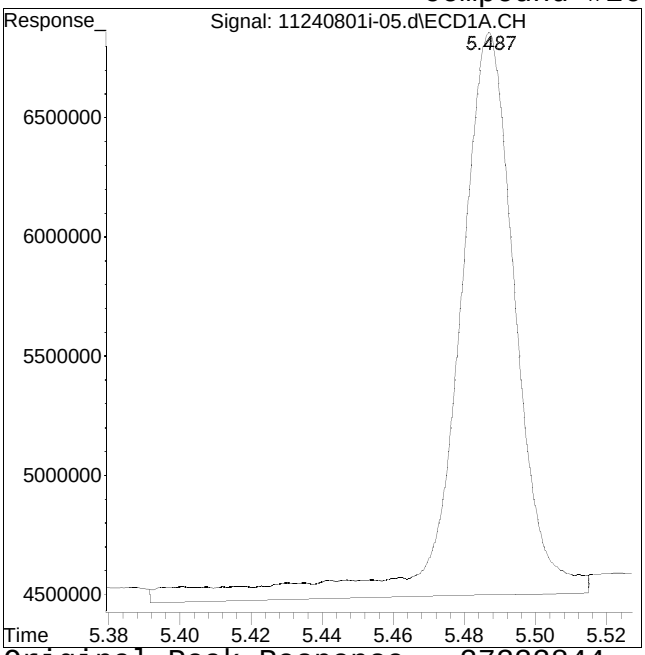
Manual Peak Response = 19598268 M4

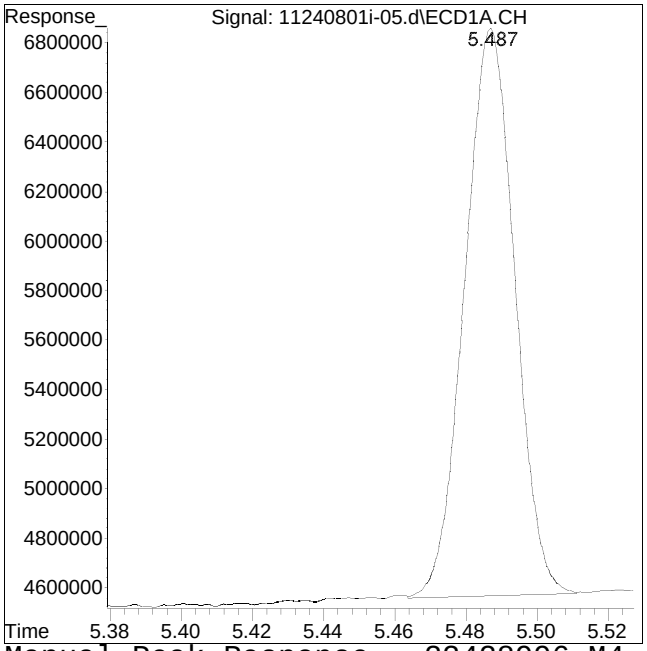
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #26: Endrin Ketone



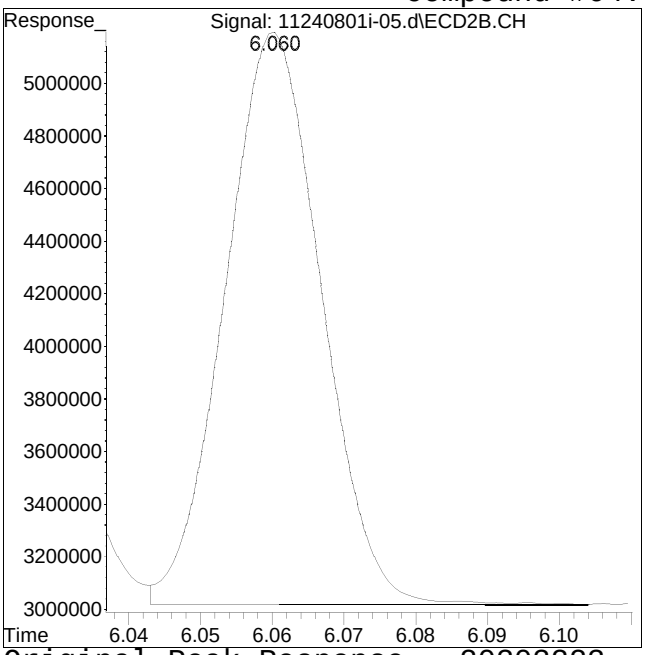


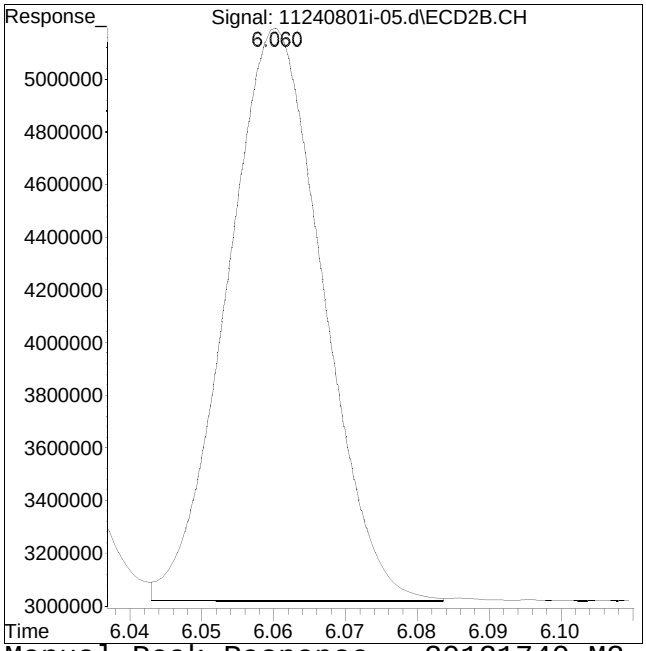
Original Peak Response = 27333844 Manual Peak Response = 22428996 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #64: Endrin Ketone #2



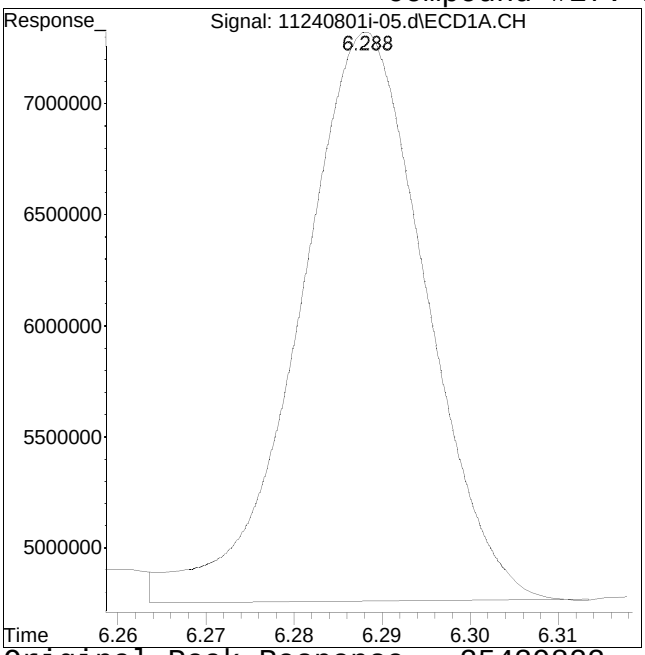


Original Peak Response = 20303223 Manual Peak Response = 20121740 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

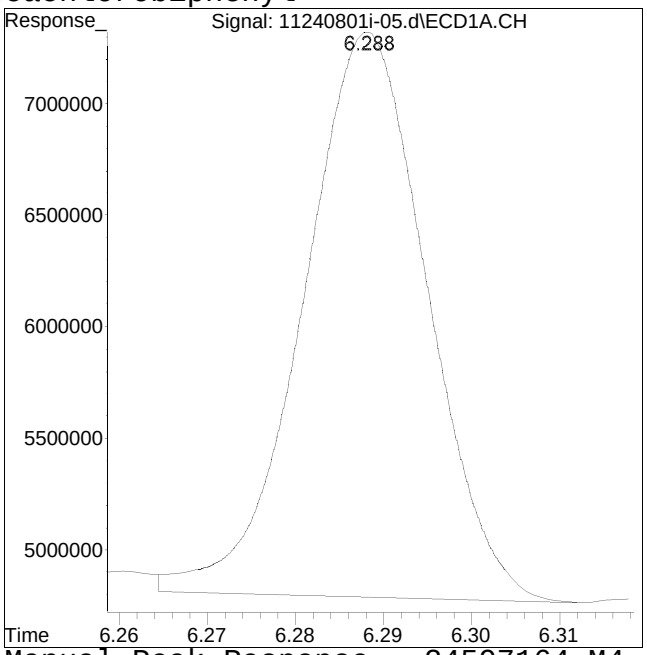
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 25439822



Manual Peak Response = 24597164 M4

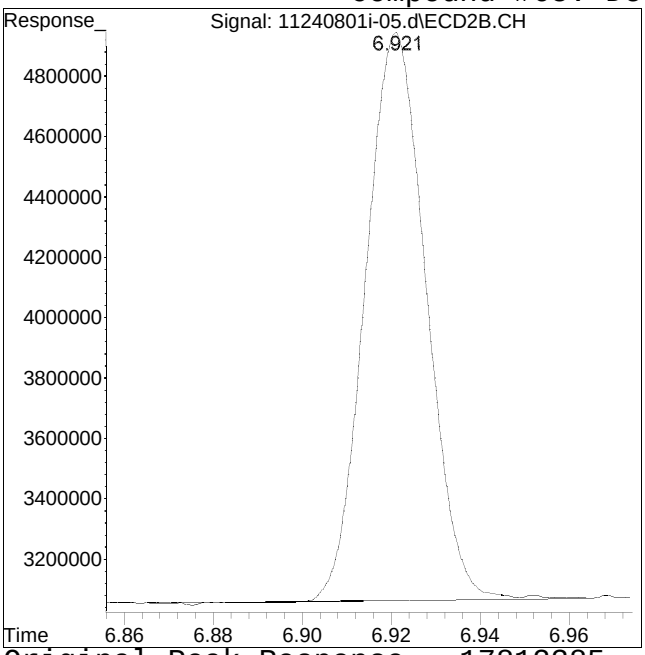
M4 = Poor automated baseline construction.

Manual Integration Report

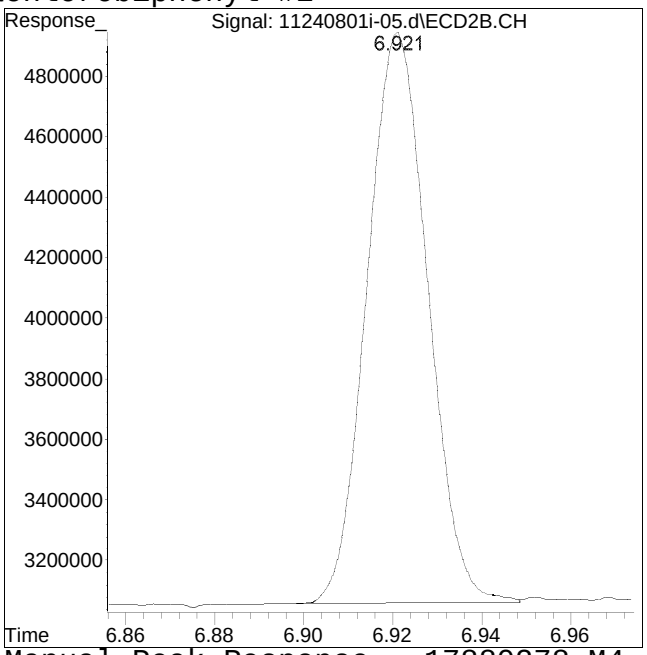
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 17812385



Manual Peak Response = 17880278 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:13
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:00:58 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:00:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.385	225.3E6	182.6E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	29080990	25002980	3.146M4	3.174M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		6.29%#	6.35%#
27) s	Decachlorobi	6.288	6.920	35723670	25963491	3.673M3	3.623
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.35%#	7.25%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.177	41044675	28990626	3.378M4	3.407M4
4) t	alpha-BHC	1.963	2.270	37177271	33446228	2.704M4	2.766M4
5) t	gamma-BHC (l	2.165	2.556	36664929	32438962	2.866	2.938M4
6) t	beta-BHC	2.221	2.622	18018371	17068674	3.280M4	3.539M4
7) t	delta-BHC	2.349	2.889	35236787	32007816	2.741M4	2.855M4
8) t	Heptachlor	2.513	2.951	36683442	36318635	3.092M4	3.237M4
9) t	Aldrin	2.755	3.270	33013771	31469739	2.925M3	3.041M4
10) t	Alachlor	2.876	3.153	6704352	6156990	3.330M4	3.985M4
11) t	Chlorpyrifos	2.968	3.506	18438577	22860352	3.688M4	3.962M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:13
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:00:58 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:00:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.884	33482006	33318329	3.165M3	3.371
13)	t	gamma-Chlord	3.424	4.104	29652579	30160649	3.062M3	3.308M4
14)	t	alpha-Chlord	3.558	4.274	33742908	33326776	3.077M4	3.307M4
15)	t	4,4'-DDE	3.656	4.472	32070400	29145586	2.927M4	2.985M4
16)	t	Endosulfan I	3.695	4.335	31252215	31096714	3.125	3.370M4
17)	t	Dieldrin	3.954	4.627	30771717	29641213	2.966M4	3.125M4
18)	t	Endrin	4.209	4.925	31764584	30138830	3.033M4	3.136M4
19)	t	4,4'-DDD	4.321	5.049	24810460	23764919	2.902M4	3.027M3
20)	t	Endosulfan I	4.451	5.125	29573503	28438999	3.135M4	3.375M4
21)	t	4,4'-DDT	4.614	5.325	28950153	27857323	2.987M4	3.095M4
22)	t	Endrin Aldeh	4.867	5.420	24805991	23963315	3.136M3	3.415M4
23)	t	Methoxychlor	5.104	5.890	18239522	17467129	3.612M4	3.699M4
24)	t	Mirex	5.159	6.023	28822274	27405414	3.547M3	3.862M4
25)	t	Endosulfan S	5.259	5.649	28795336	28540412	3.247M3	3.461
26)	t	Endrin Keton	5.486	6.060	33725466	29365808	3.191M4	3.323M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:13
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:00:58 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:00:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

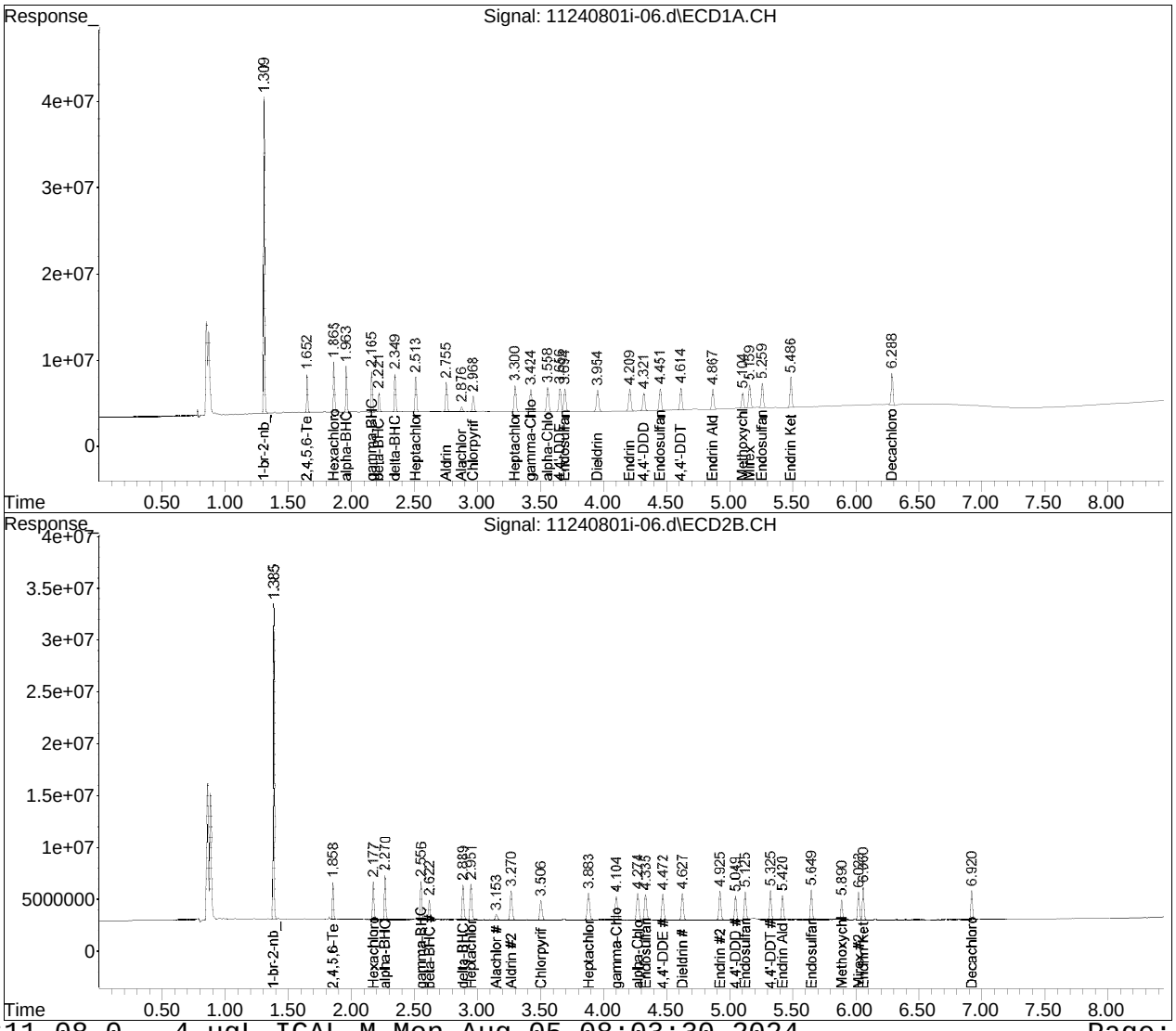
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:13
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:00:58 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:00:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

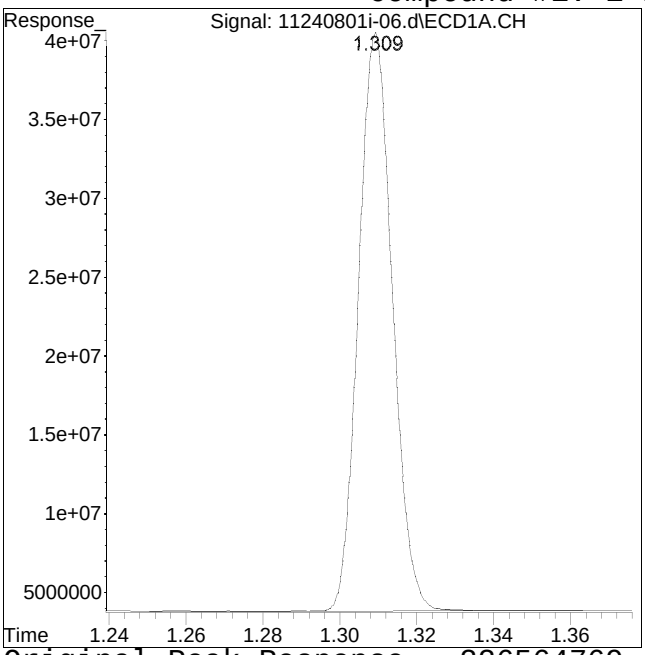


Manual Integration Report

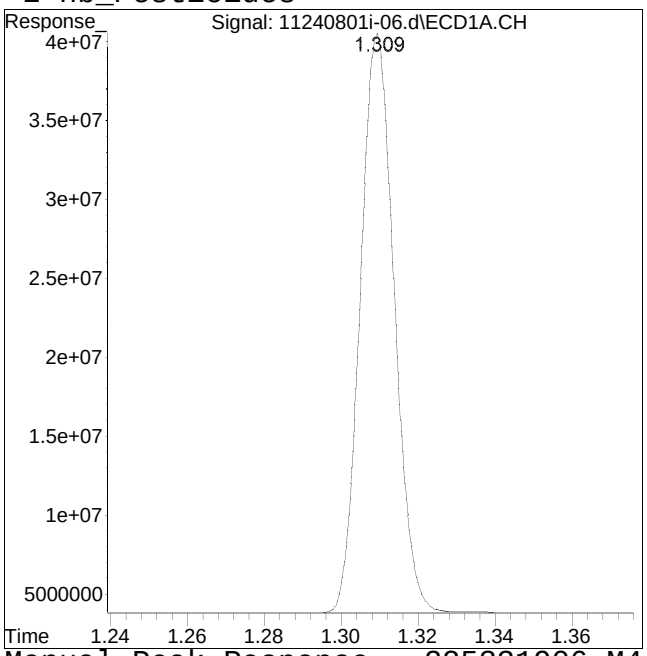
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 226564769



Manual Peak Response = 225331906 M4

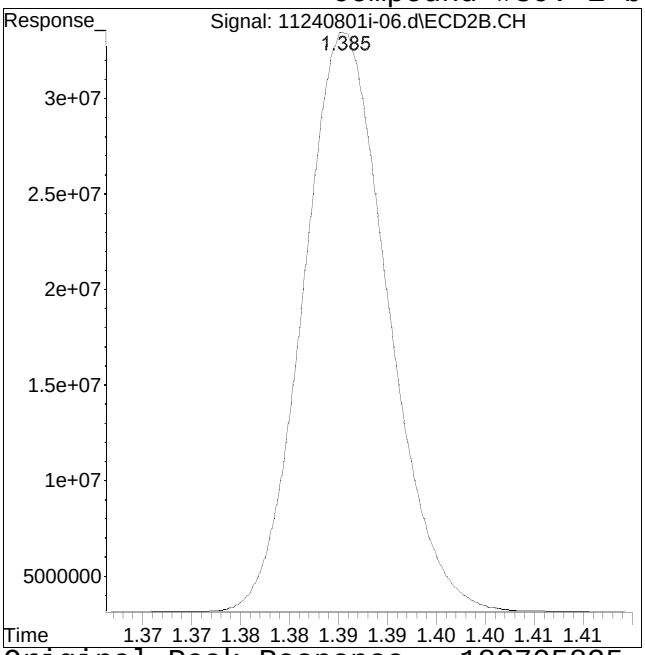
M4 = Poor automated baseline construction.

Manual Integration Report

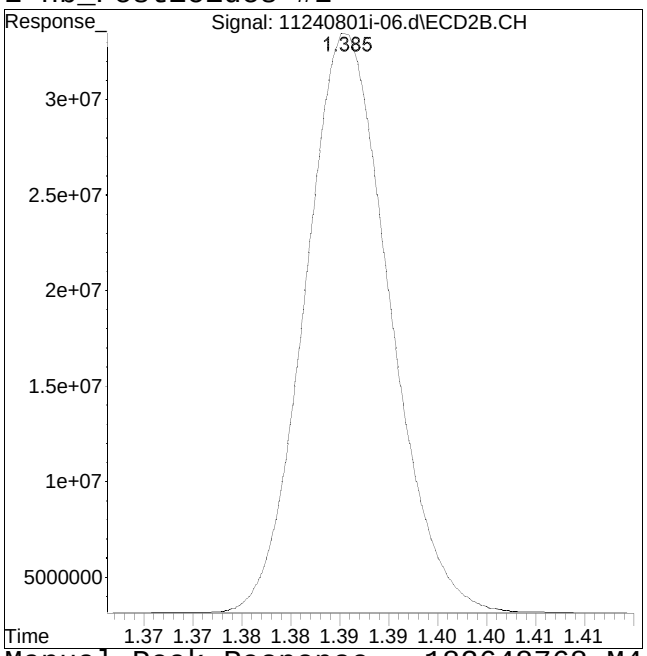
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 182705835



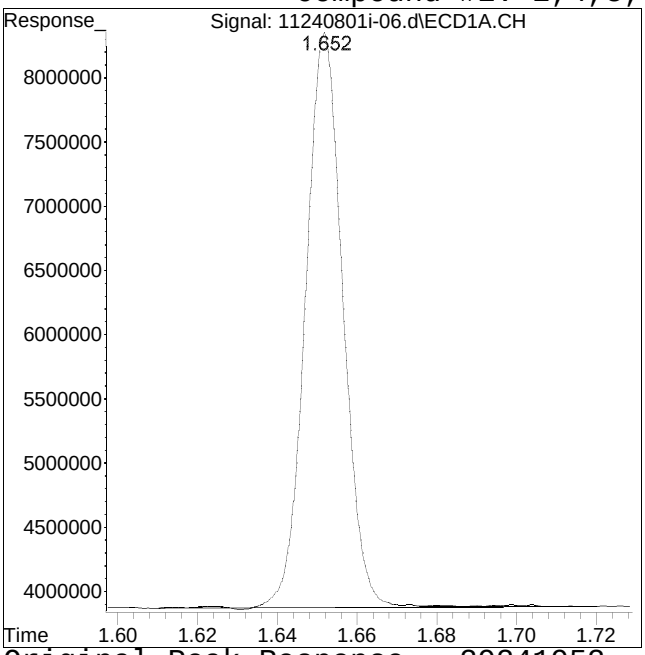
Manual Peak Response = 182648768 M4

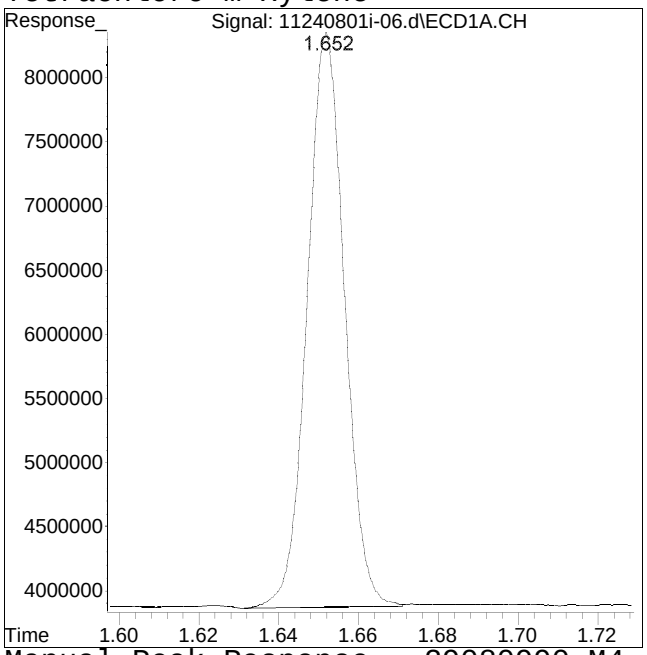
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



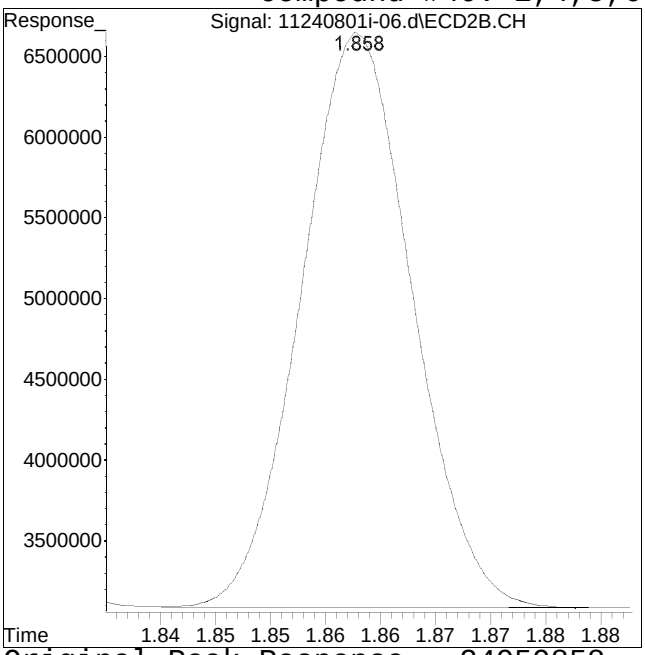


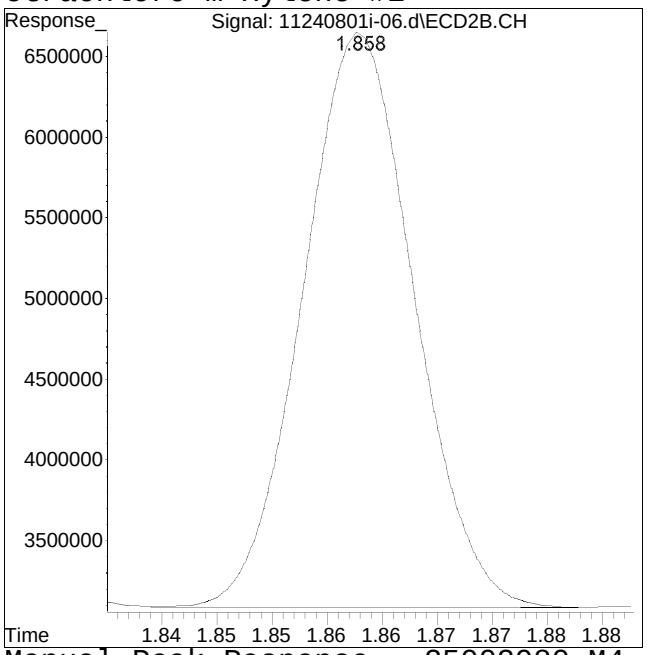
Original Peak Response = 29241952 Manual Peak Response = 29080990 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



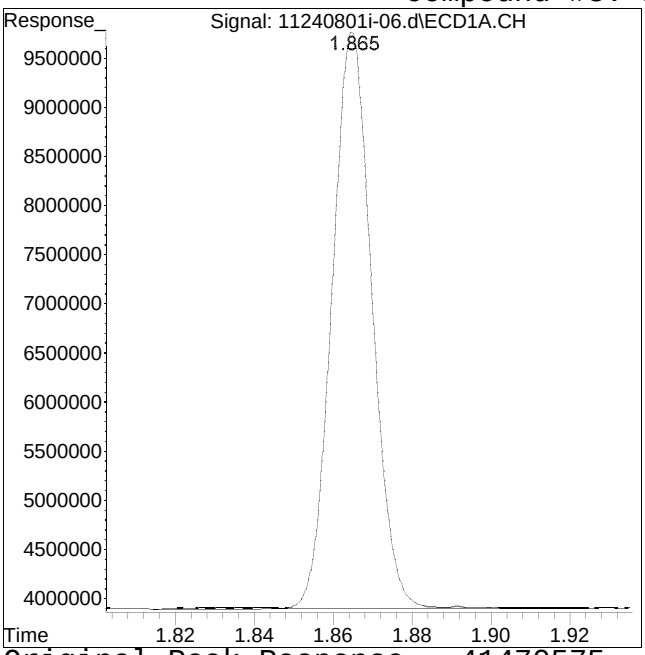


Original Peak Response = 24959858 Manual Peak Response = 25002980 M4
M4 = Poor automated baseline construction.

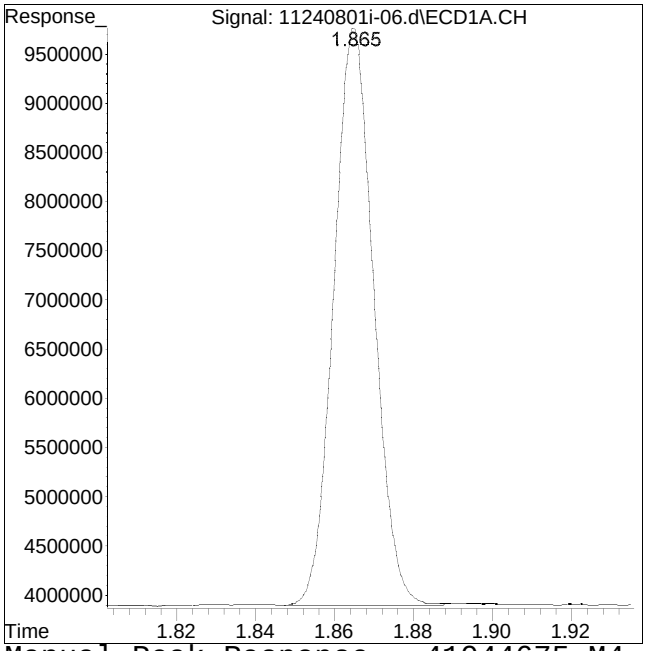
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #3: Hexachlorobenzene



Original Peak Response = 41470575



Manual Peak Response = 41044675 M4

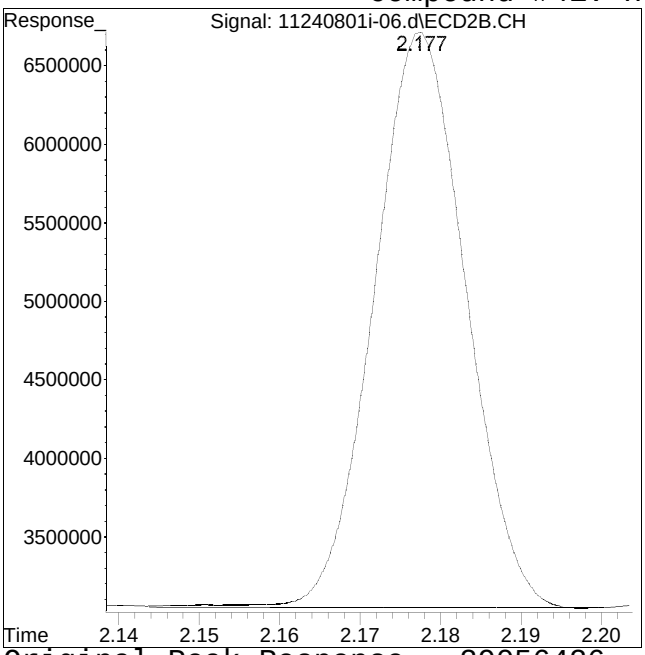
M4 = Poor automated baseline construction.

Manual Integration Report

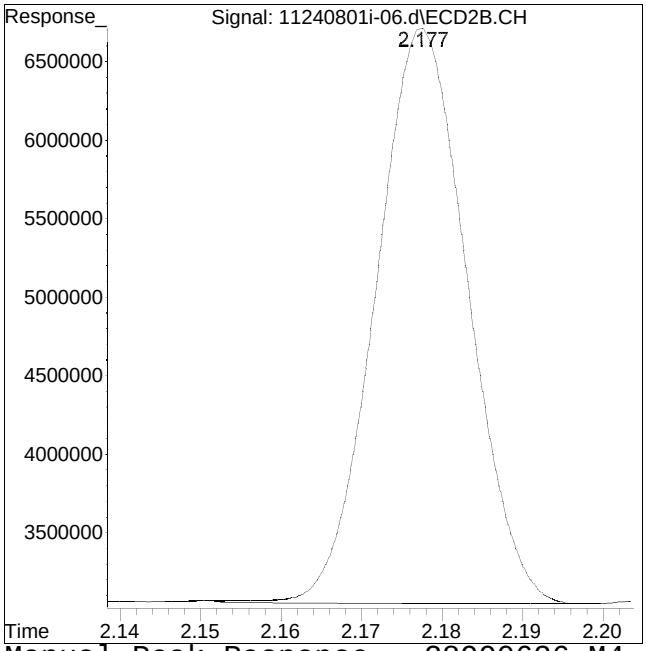
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 29056426



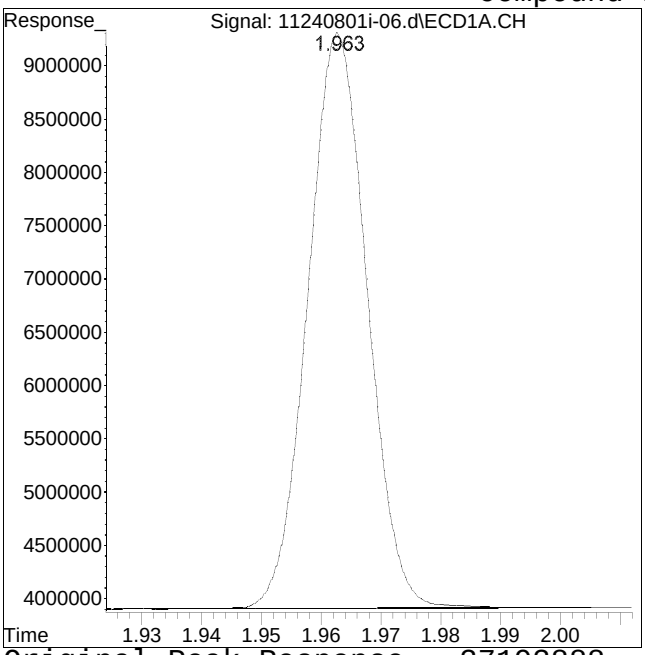
Manual Peak Response = 28990626 M4

M4 = Poor automated baseline construction.

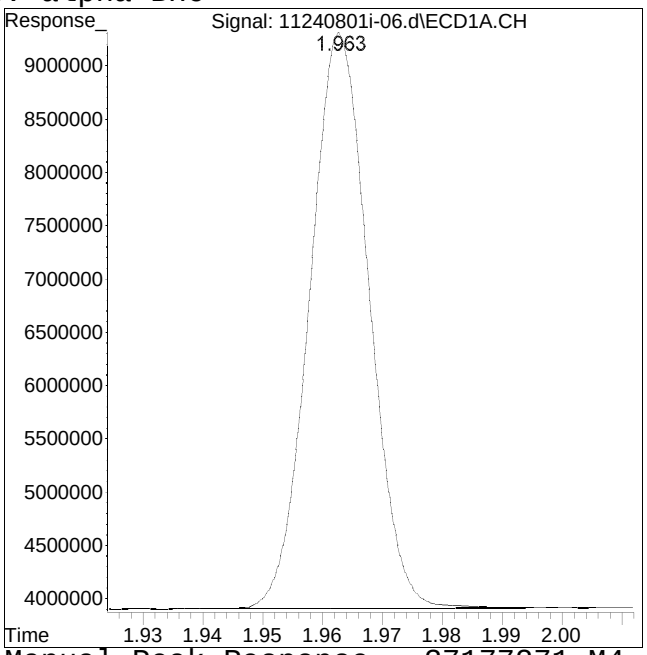
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #4: alpha-BHC



Original Peak Response = 37193888



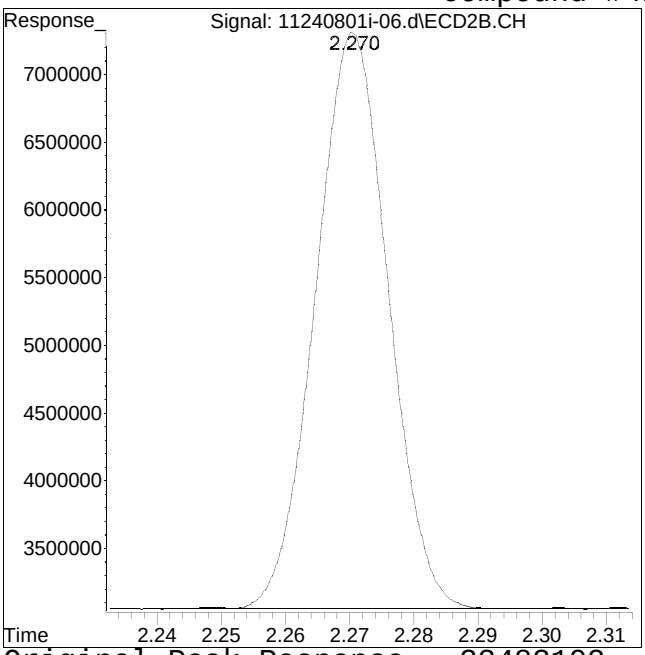
Manual Peak Response = 37177271 M4

M4 = Poor automated baseline construction.

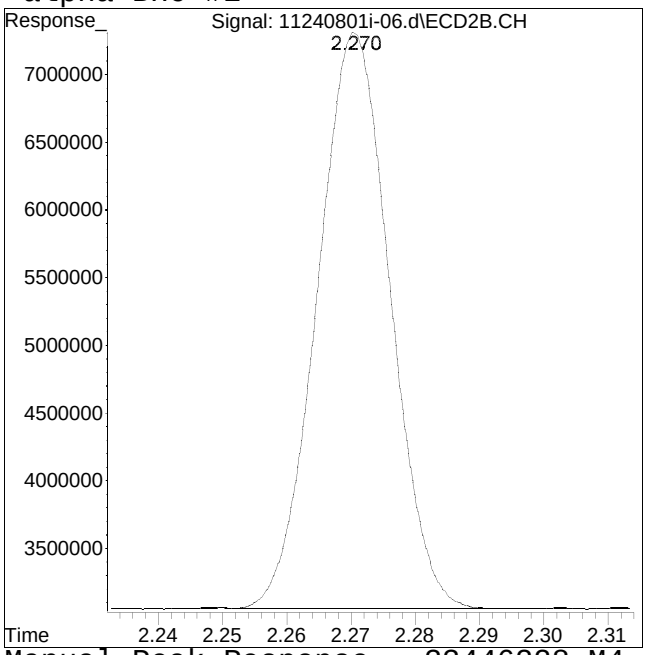
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #42: alpha-BHC #2



Original Peak Response = 33483192



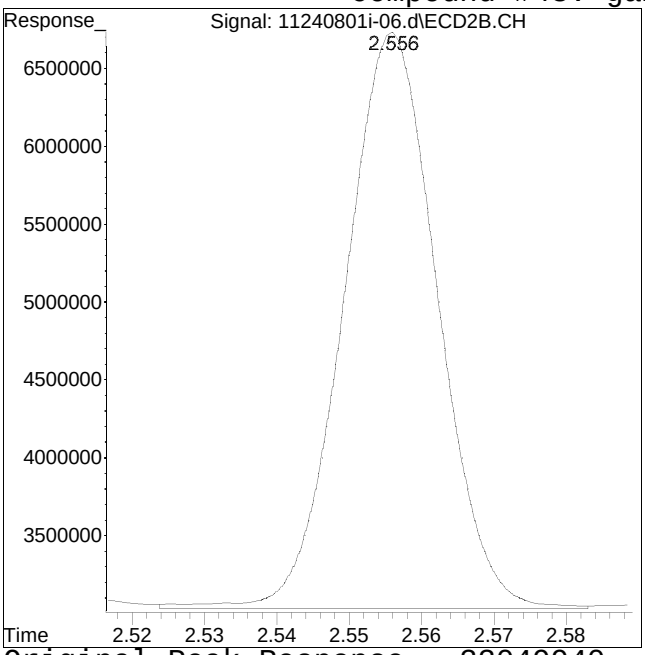
Manual Peak Response = 33446228 M4

M4 = Poor automated baseline construction.

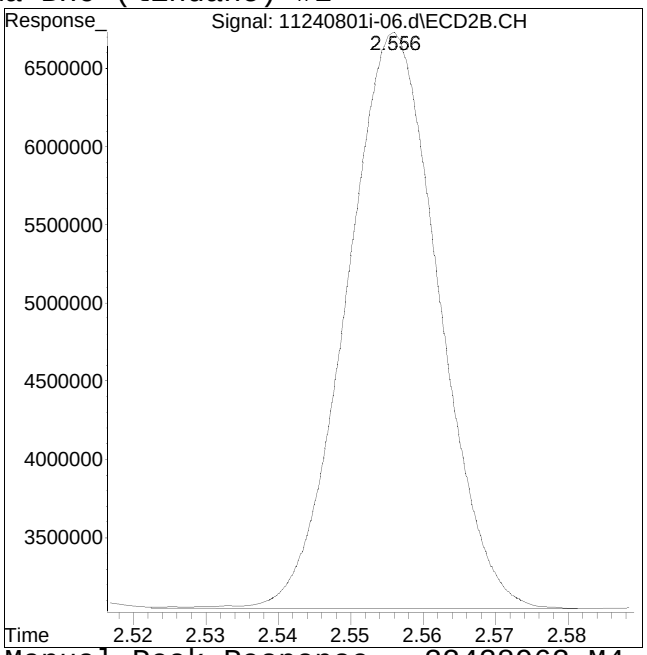
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 33049940



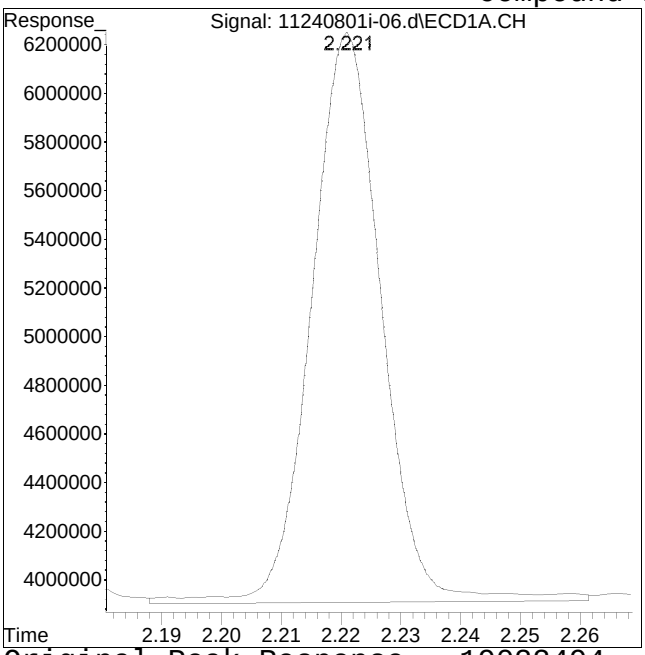
Manual Peak Response = 32438962 M4

M4 = Poor automated baseline construction.

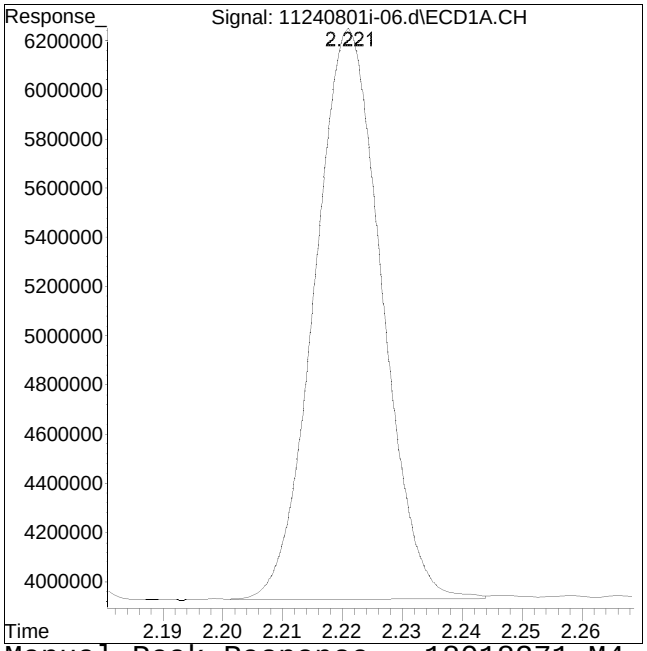
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #6: beta-BHC



Original Peak Response = 19022494



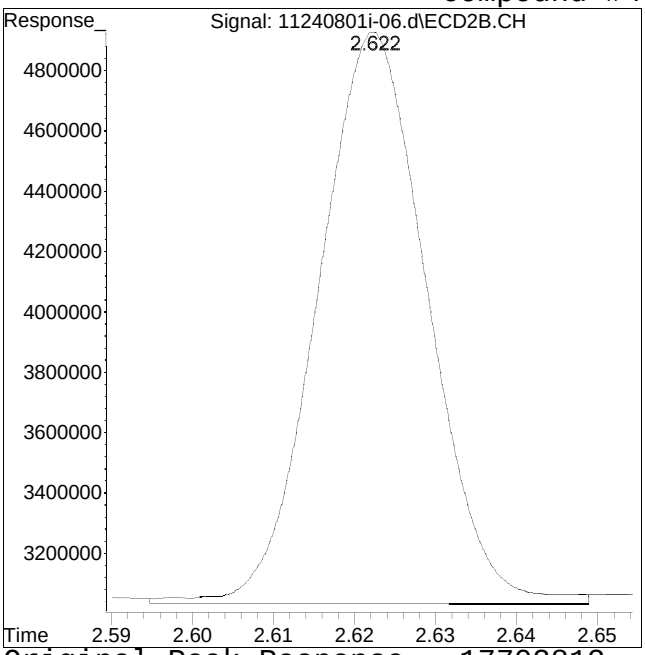
Manual Peak Response = 18018371 M4

M4 = Poor automated baseline construction.

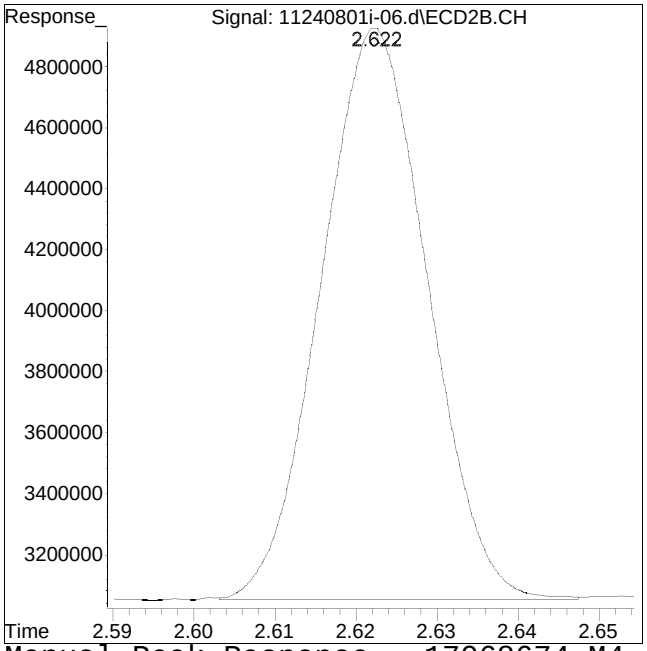
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #44: beta-BHC #2



Original Peak Response = 17702812



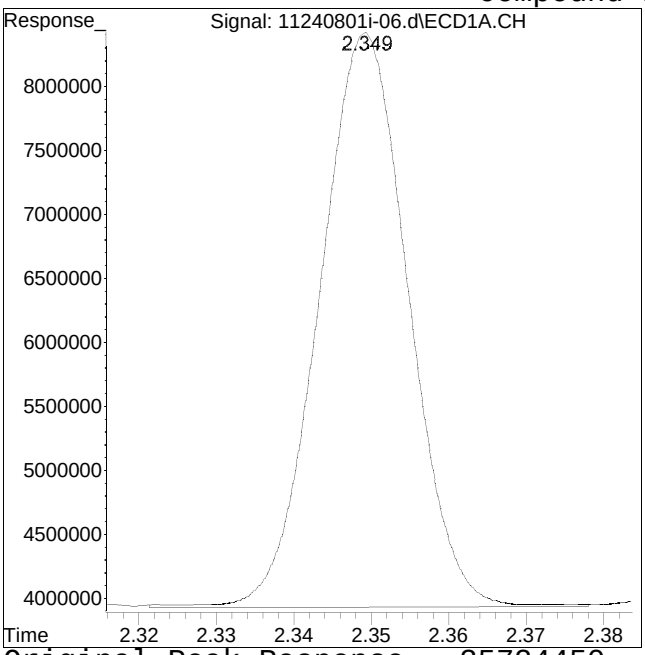
Manual Peak Response = 17068674 M4

M4 = Poor automated baseline construction.

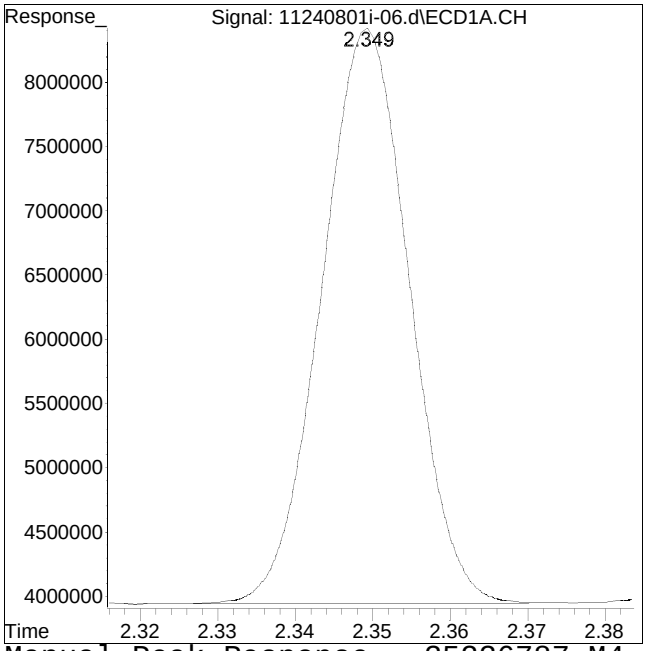
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #7: delta-BHC



Original Peak Response = 35724450



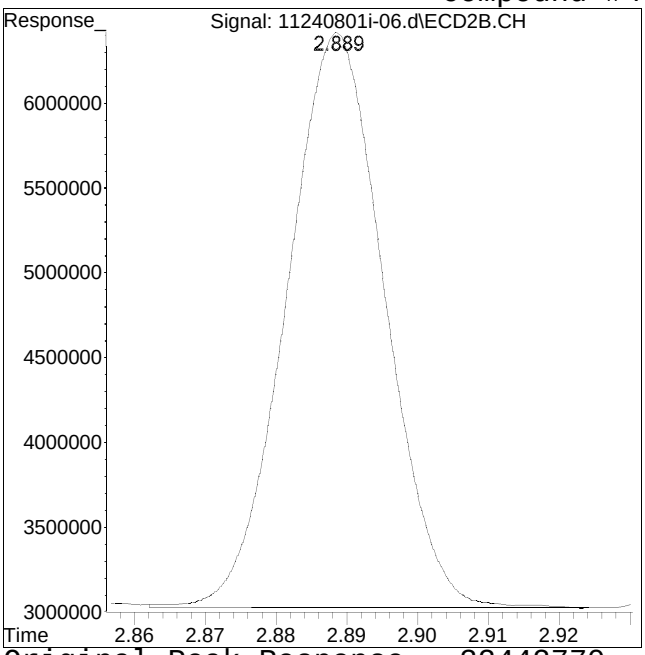
Manual Peak Response = 35236787 M4

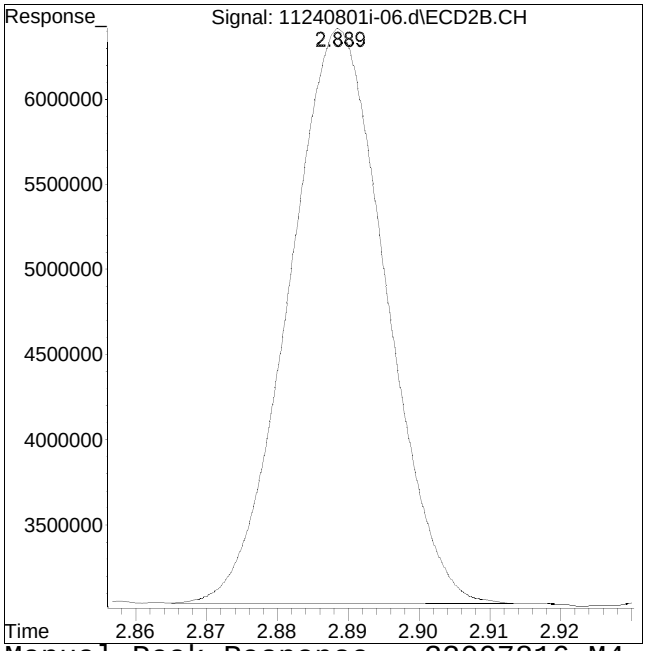
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #45: delta-BHC #2





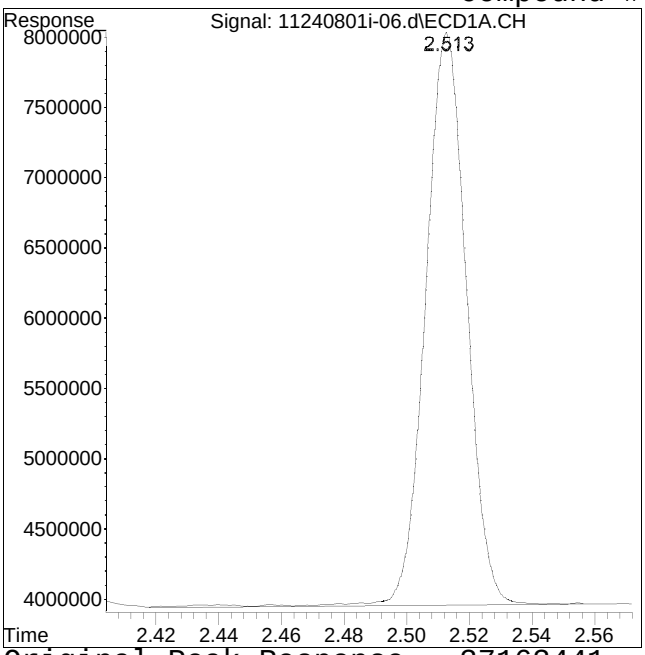
Original Peak Response = 32442770 Manual Peak Response = 32007816 M4
M4 = Poor automated baseline construction.

Manual Integration Report

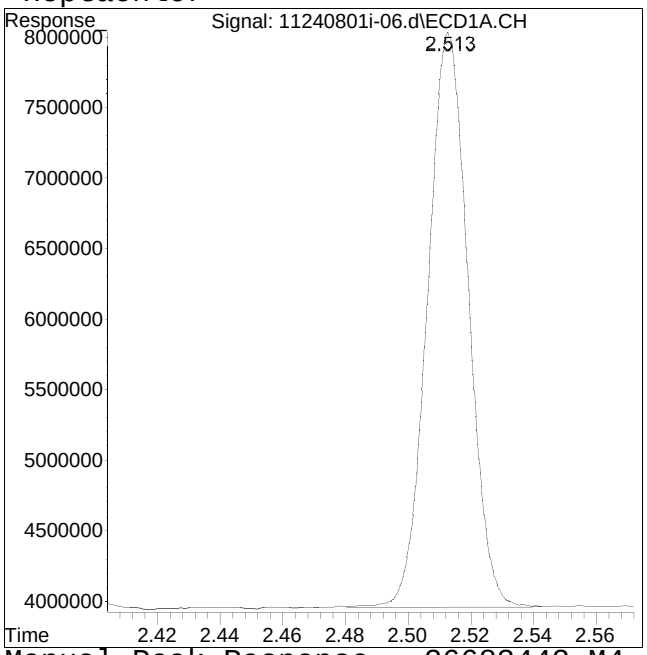
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #8: Heptachlor



Original Peak Response = 37163441



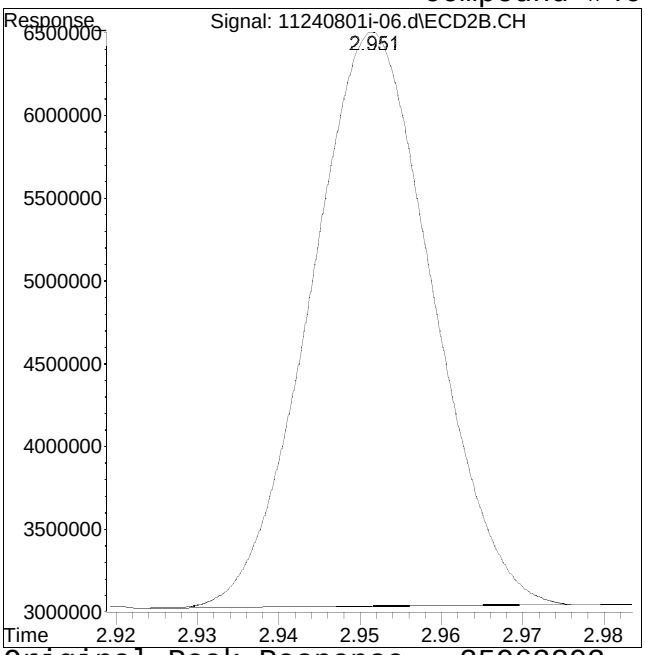
Manual Peak Response = 36683442 M4

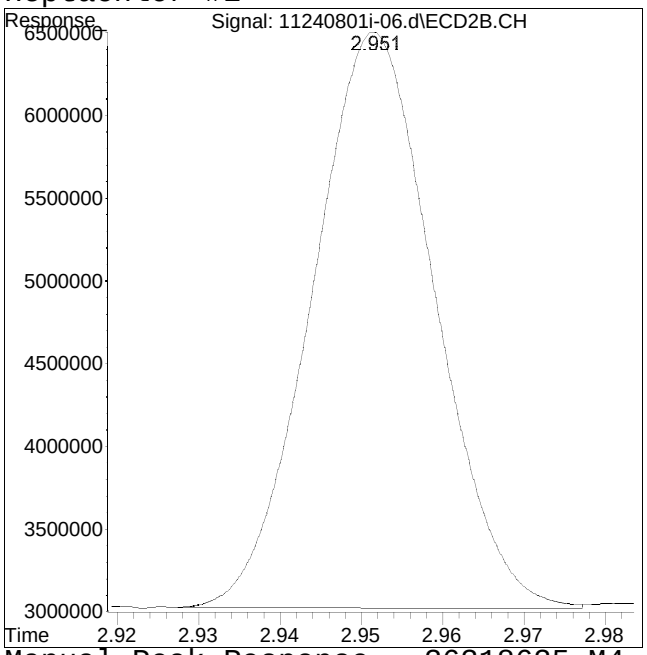
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #46: Heptachlor #2





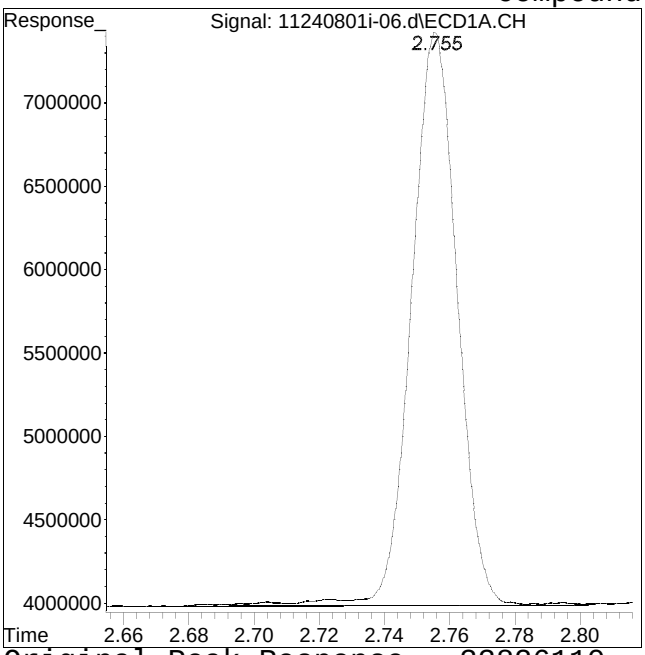
Original Peak Response = 35963293 Manual Peak Response = 36318635 M4
M4 = Poor automated baseline construction.

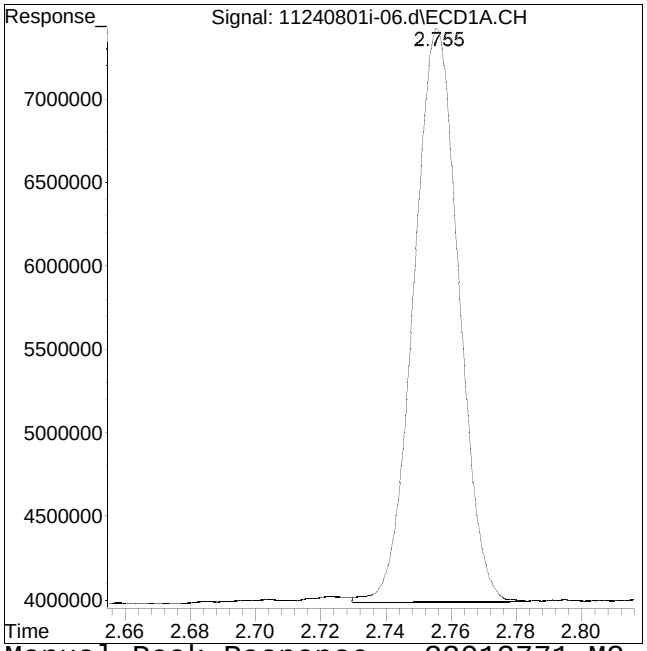
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #9: Aldrin





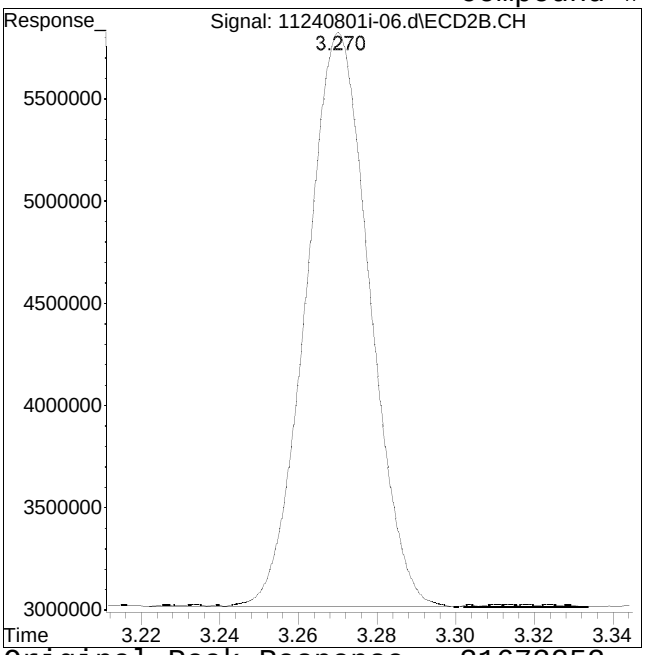
Original Peak Response = 33826110 Manual Peak Response = 33013771 M3

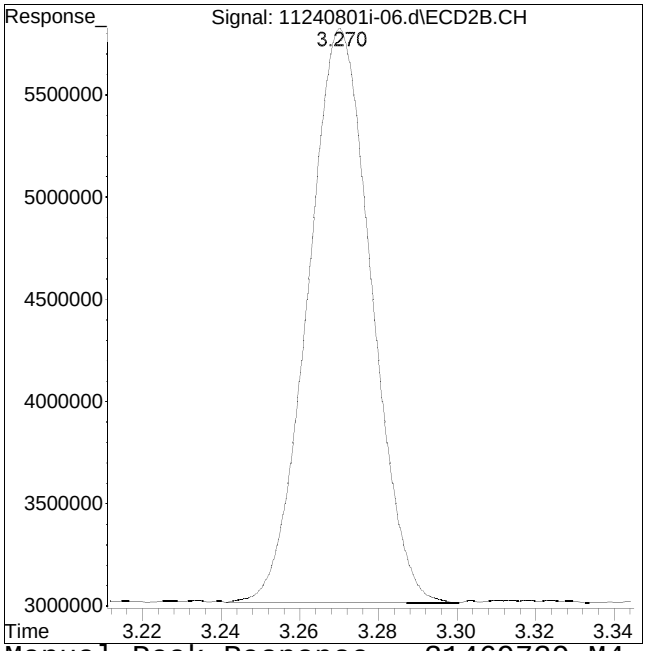
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #47: Aldrin #2





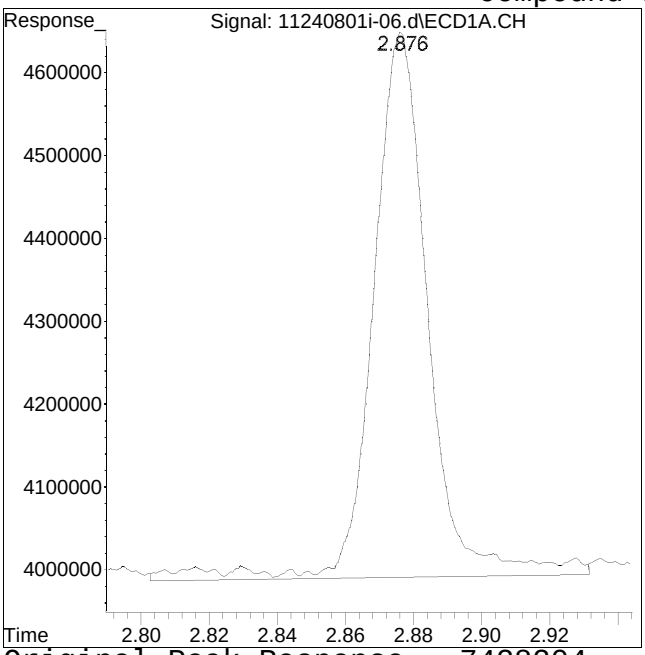
Original Peak Response = 31673252 Manual Peak Response = 31469739 M4
M4 = Poor automated baseline construction.

Manual Integration Report

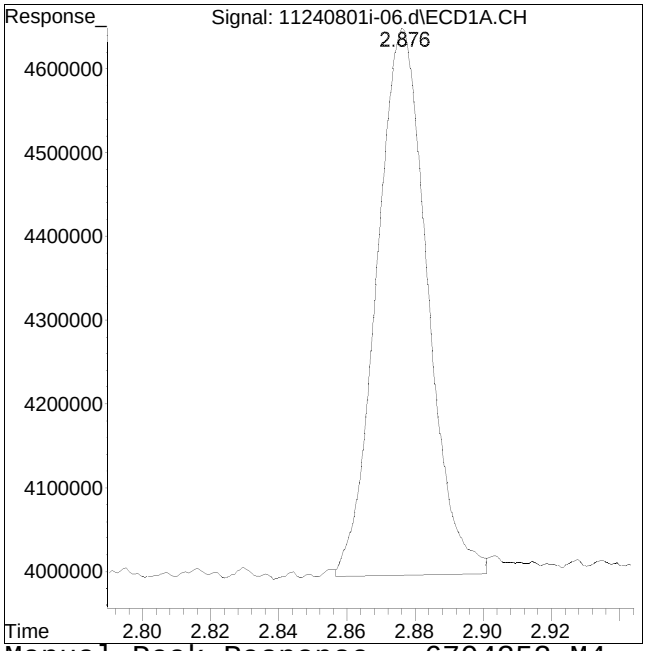
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #10: Alachlor



Original Peak Response = 7428204



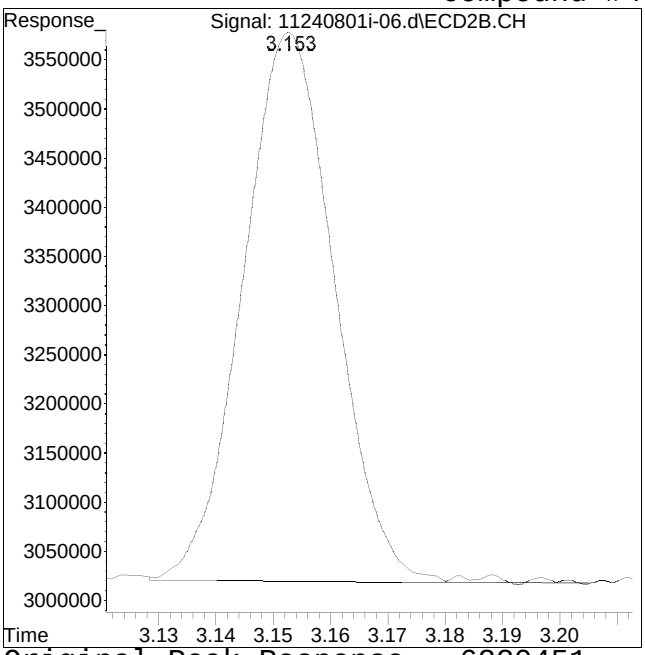
Manual Peak Response = 6704352 M4

M4 = Poor automated baseline construction.

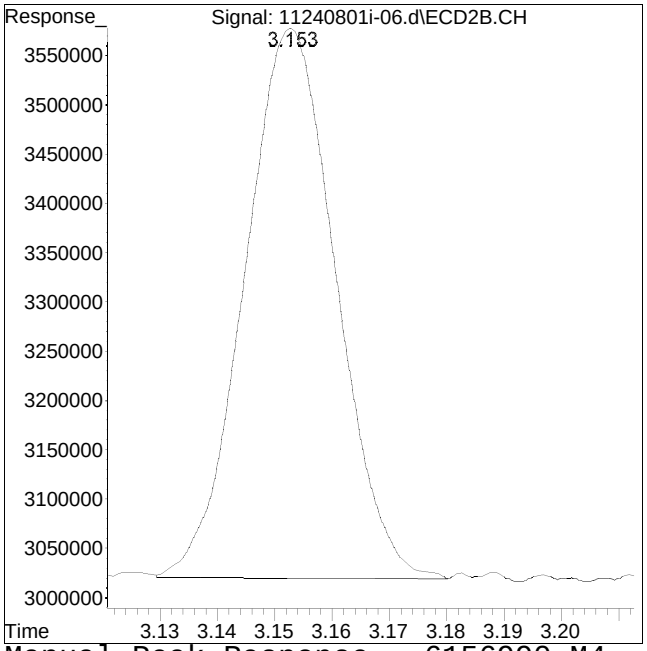
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #48: Alachlor #2



Original Peak Response = 6220451



Manual Peak Response = 6156990 M4

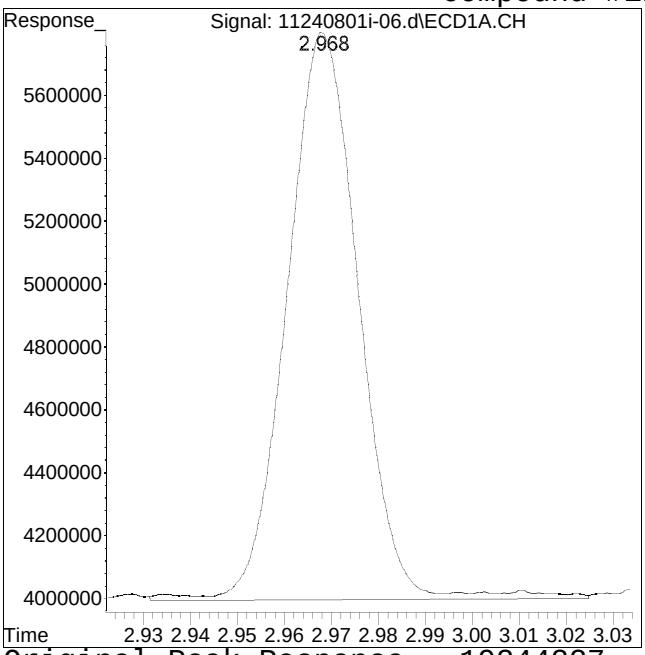
M4 = Poor automated baseline construction.

Manual Integration Report

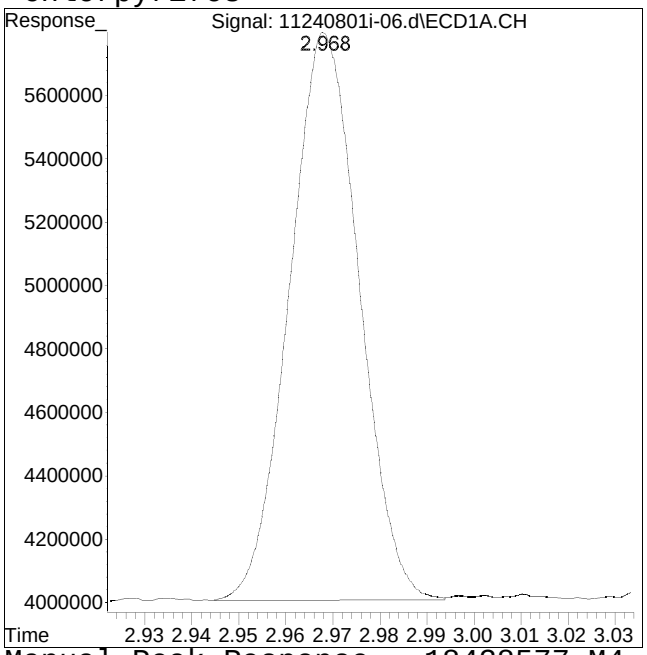
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #11: Chlorpyrifos



Original Peak Response = 19244227



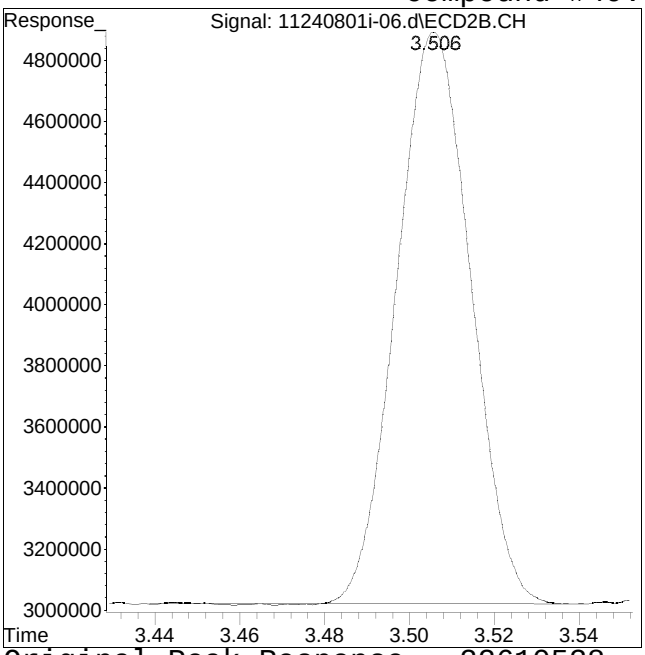
Manual Peak Response = 18438577 M4

M4 = Poor automated baseline construction.

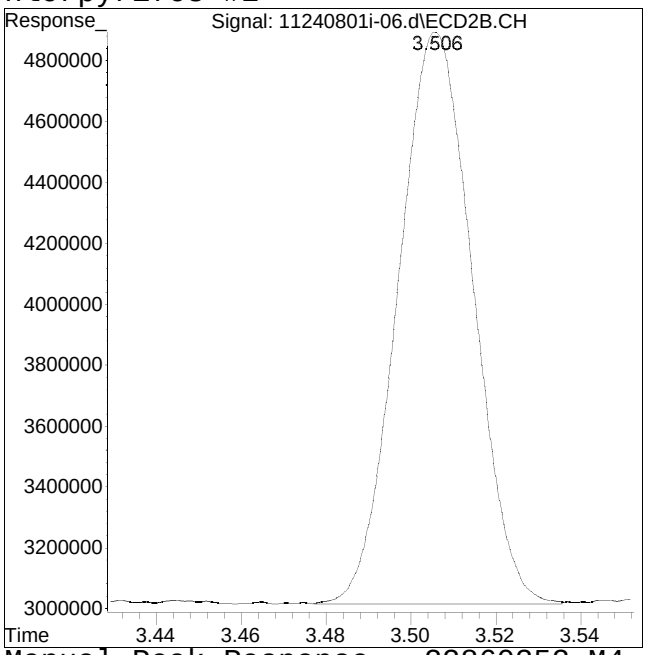
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 22610538



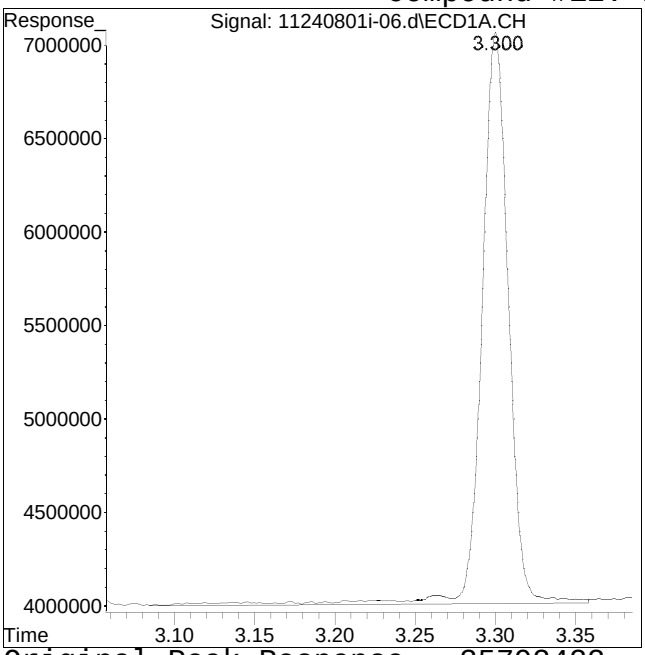
Manual Peak Response = 22860352 M4

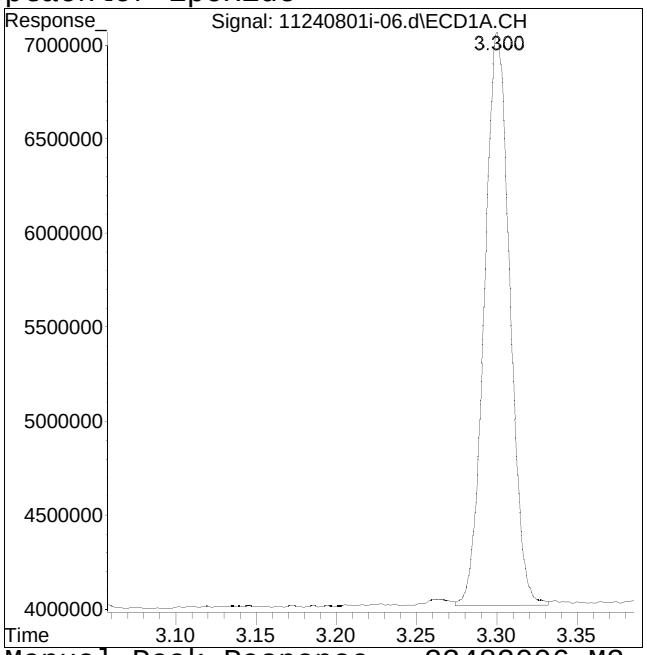
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #12: Heptachlor Epoxide





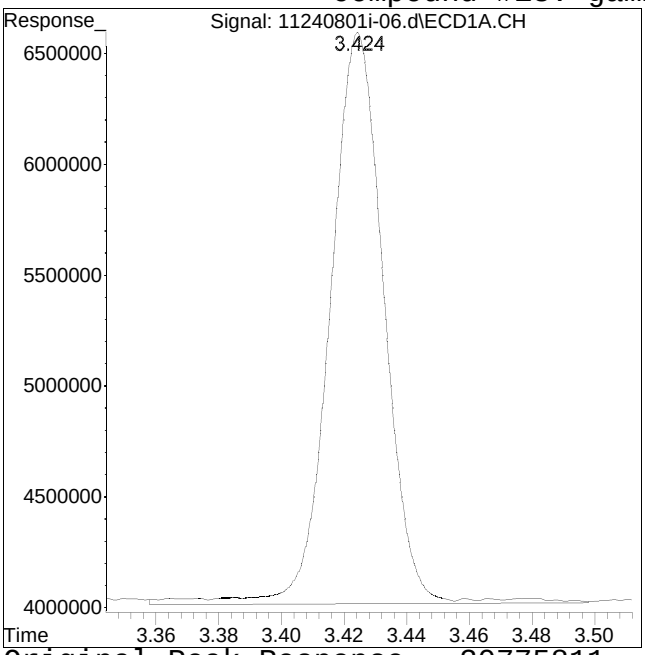
Original Peak Response = 35792422 Manual Peak Response = 33482006 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

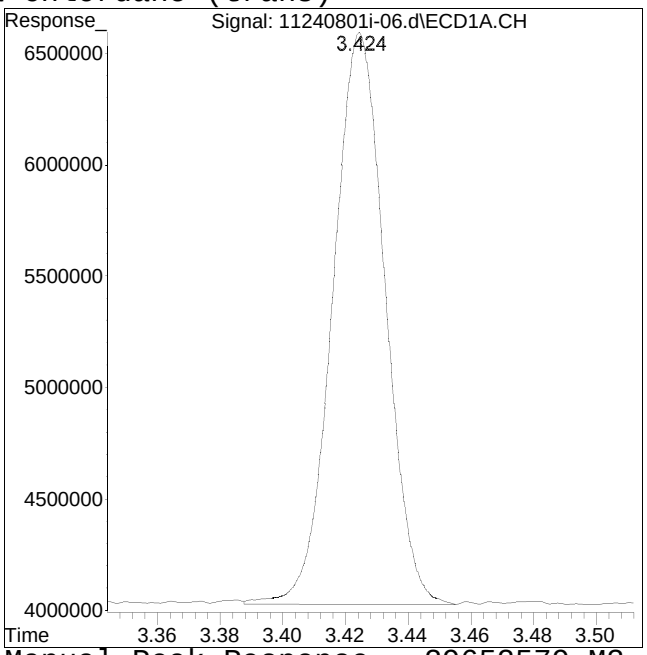
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #13: gamma-Chlordane (trans)





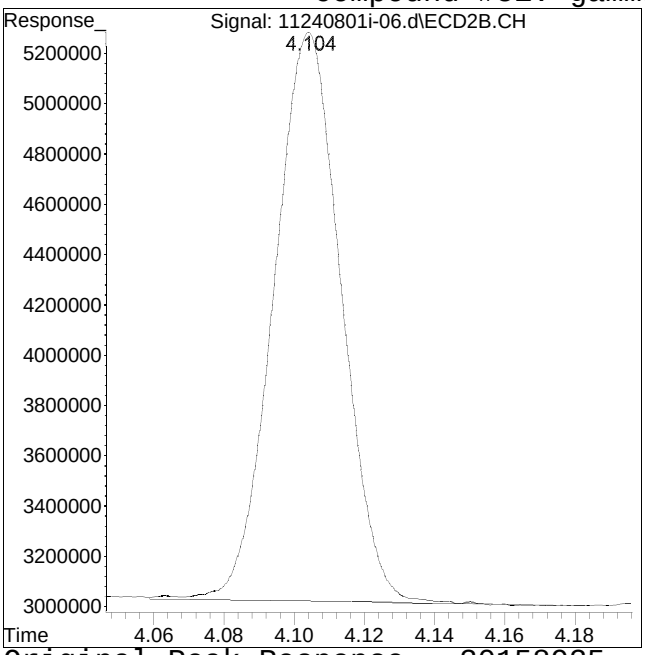
Original Peak Response = 30775811 Manual Peak Response = 29652579 M3

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

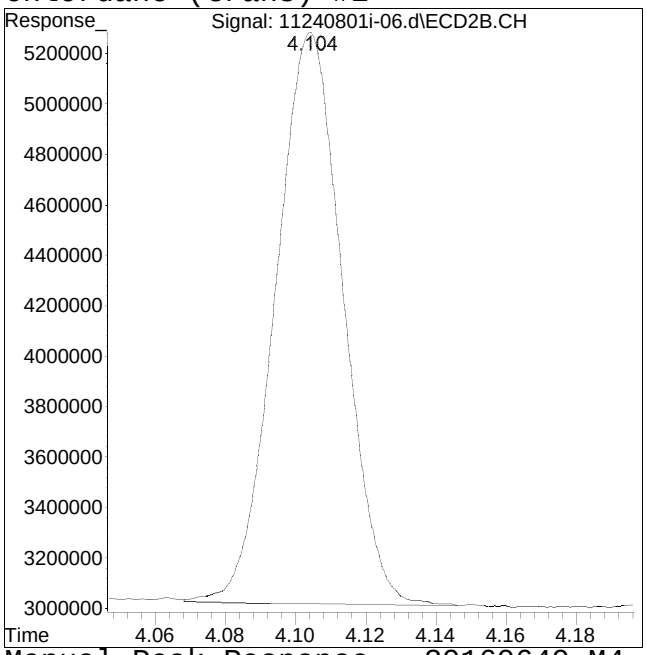
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 30158935



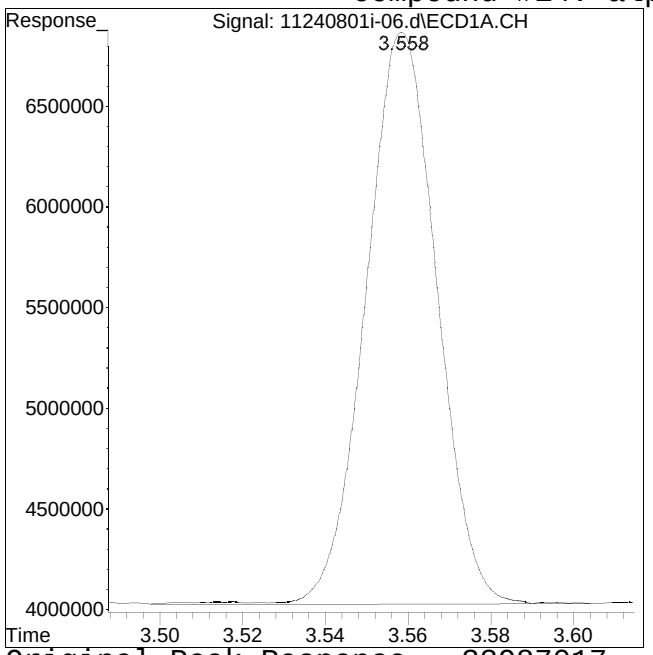
Manual Peak Response = 30160649 M4

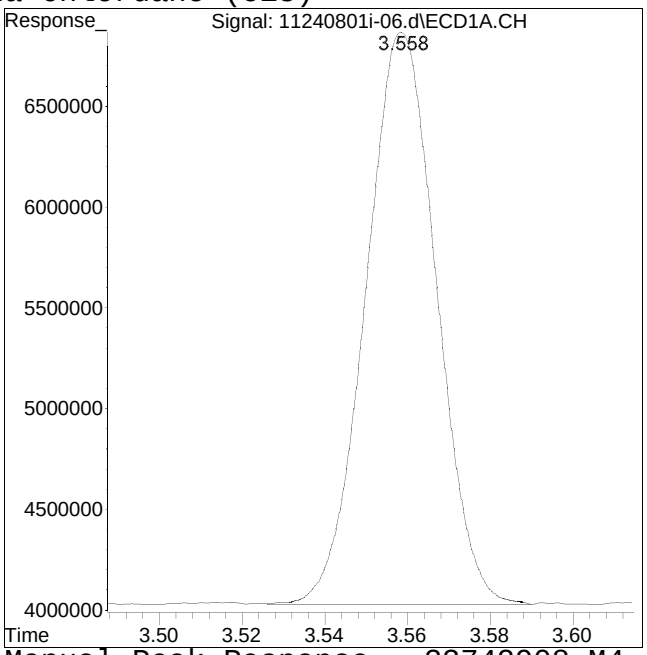
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #14: alpha-Chlordane (cis)



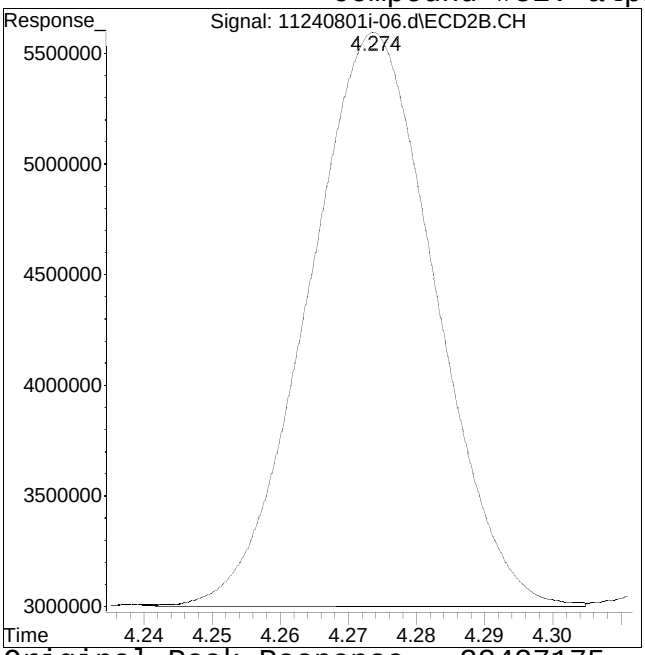


Original Peak Response = 33987017 Manual Peak Response = 33742908 M4
M4 = Poor automated baseline construction.

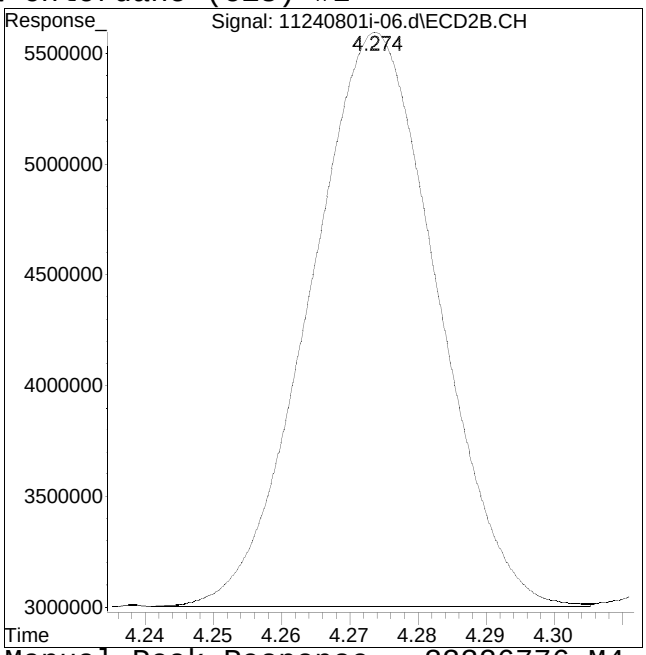
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 33427175



Manual Peak Response = 33326776 M4

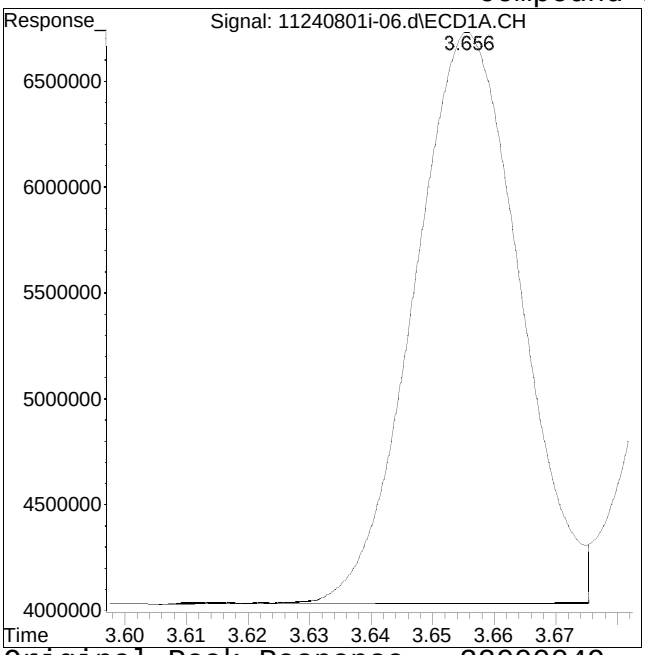
M4 = Poor automated baseline construction.

Manual Integration Report

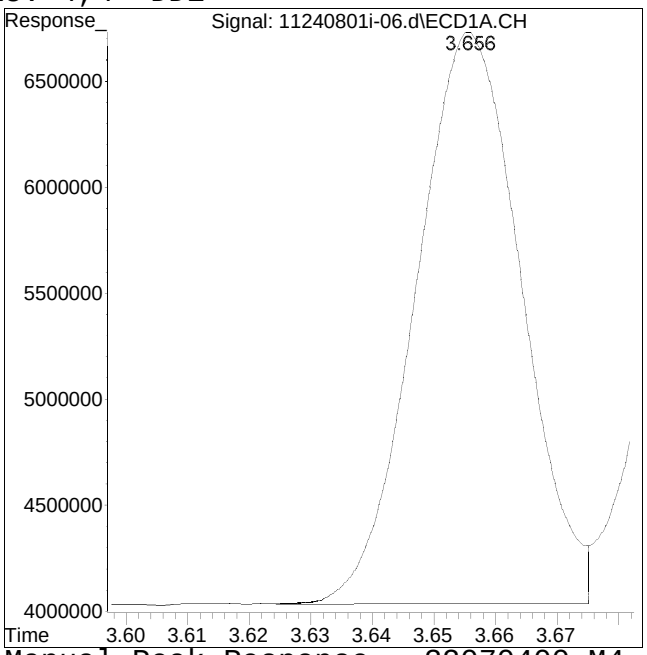
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #15: 4,4'-DDE



Original Peak Response = 32000049



Manual Peak Response = 32070400 M4

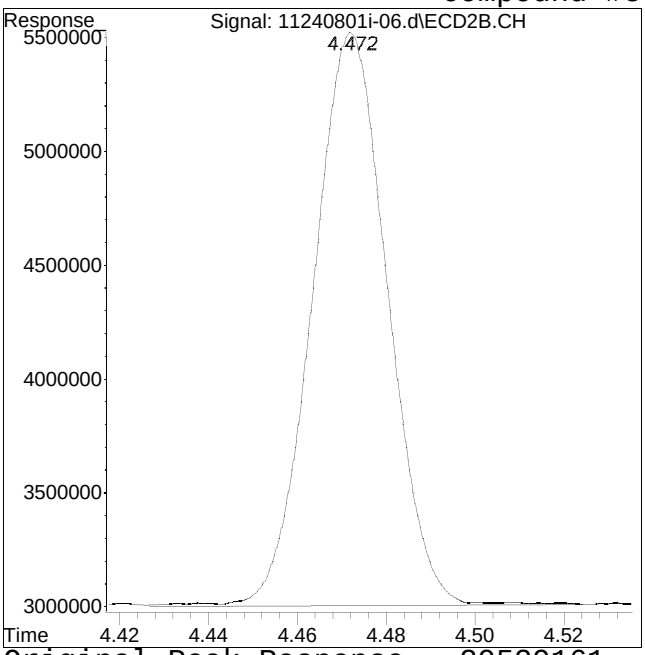
M4 = Poor automated baseline construction.

Manual Integration Report

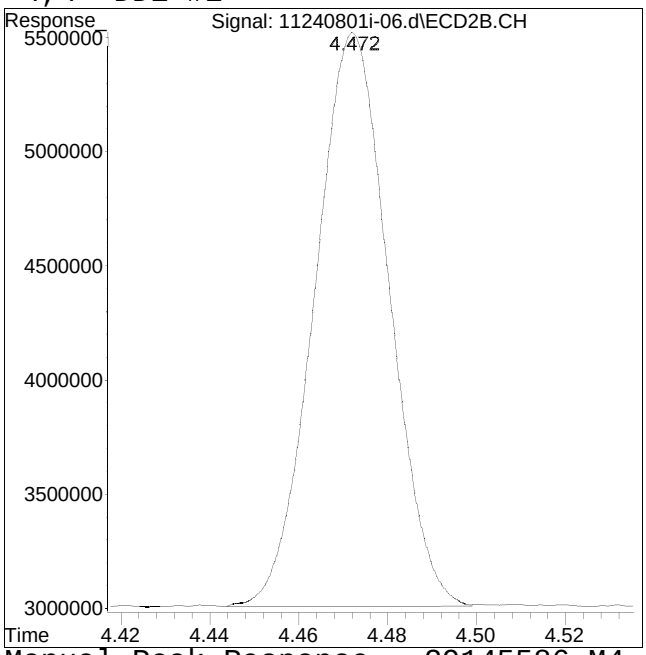
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 29529161



Manual Peak Response = 29145586 M4

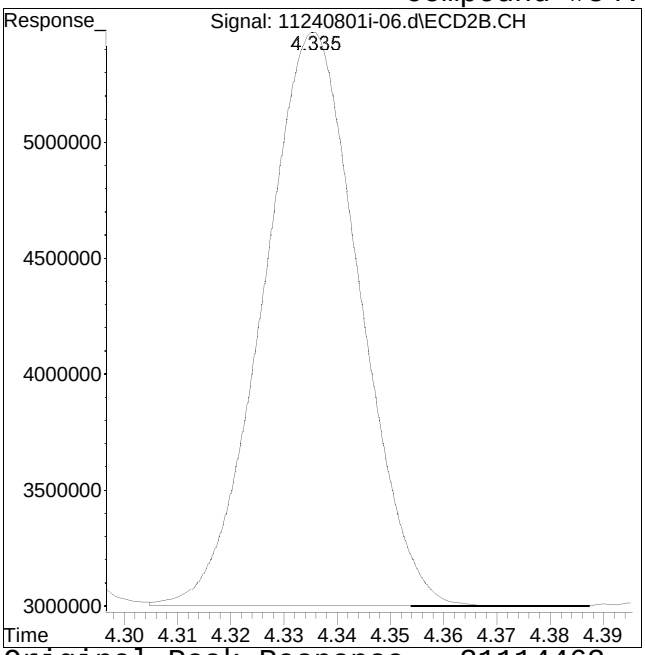
M4 = Poor automated baseline construction.

Manual Integration Report

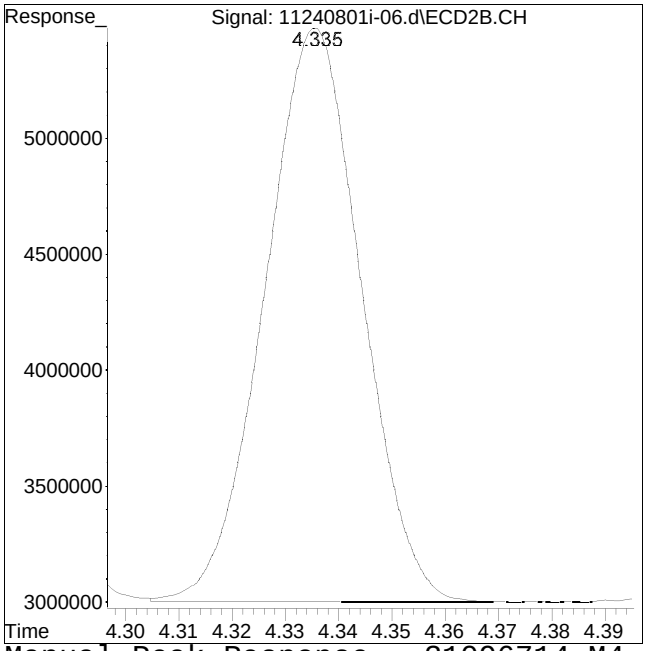
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #54: Endosulfan I #2



Original Peak Response = 31114463



Manual Peak Response = 31096714 M4

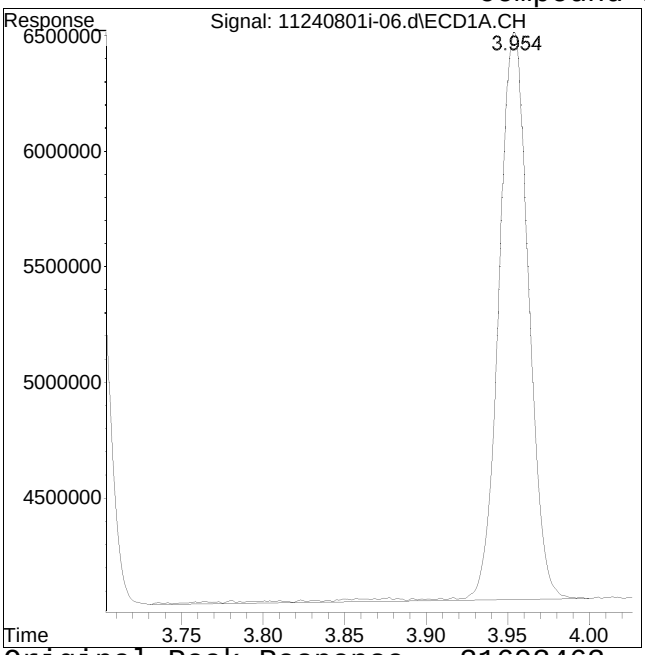
M4 = Poor automated baseline construction.

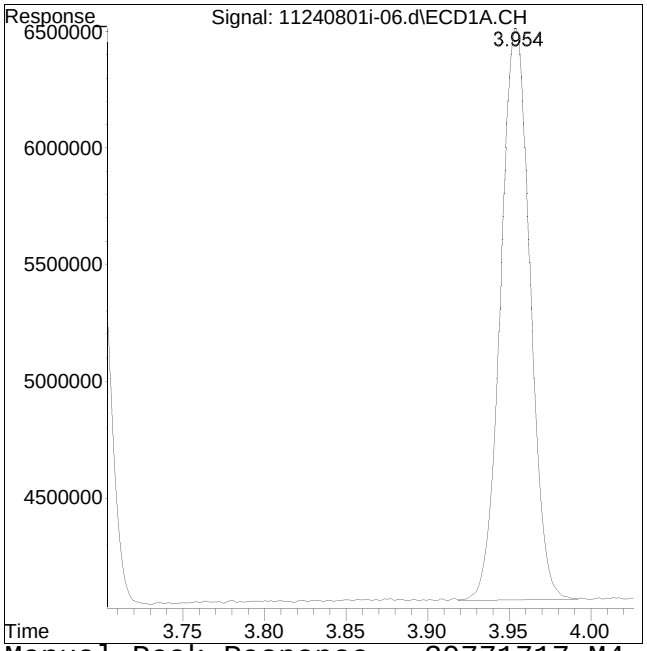
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #17: Dieldrin





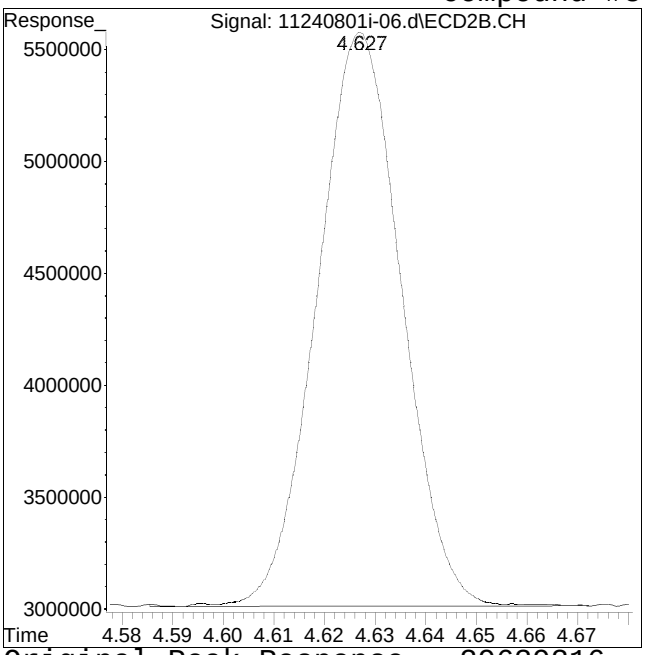
Original Peak Response = 31693463 Manual Peak Response = 30771717 M4
M4 = Poor automated baseline construction.

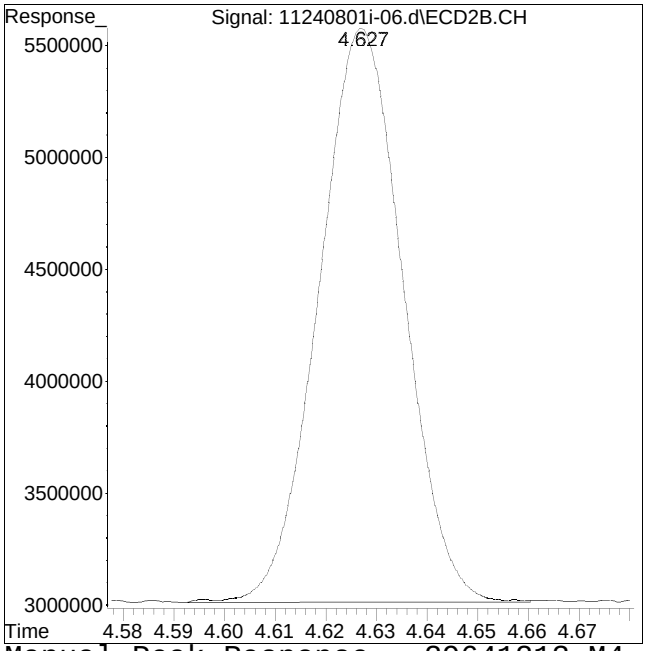
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #55: Dieldrin #2





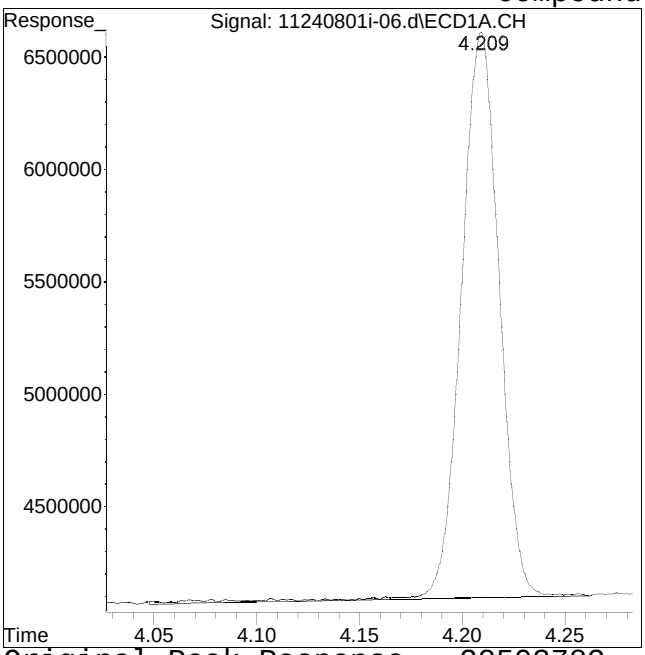
Original Peak Response = 29639216 Manual Peak Response = 29641213 M4
M4 = Poor automated baseline construction.

Manual Integration Report

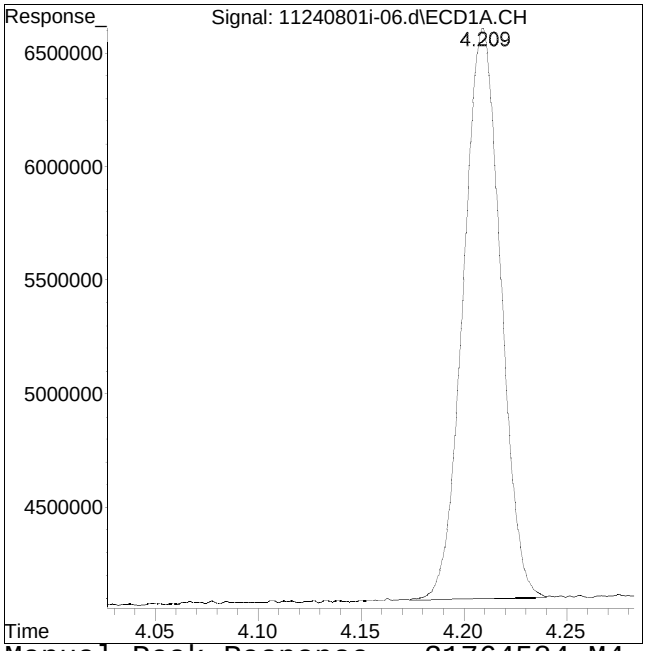
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #18: Endrin



Original Peak Response = 32503783



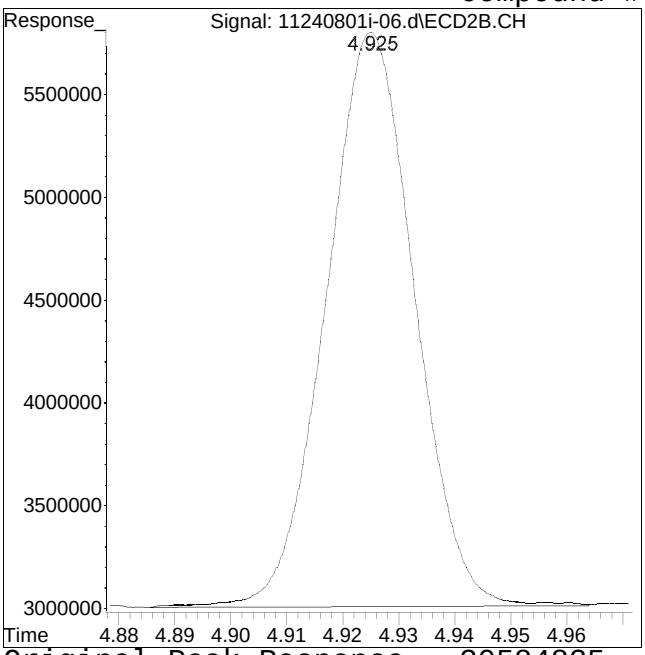
Manual Peak Response = 31764584 M4

M4 = Poor automated baseline construction.

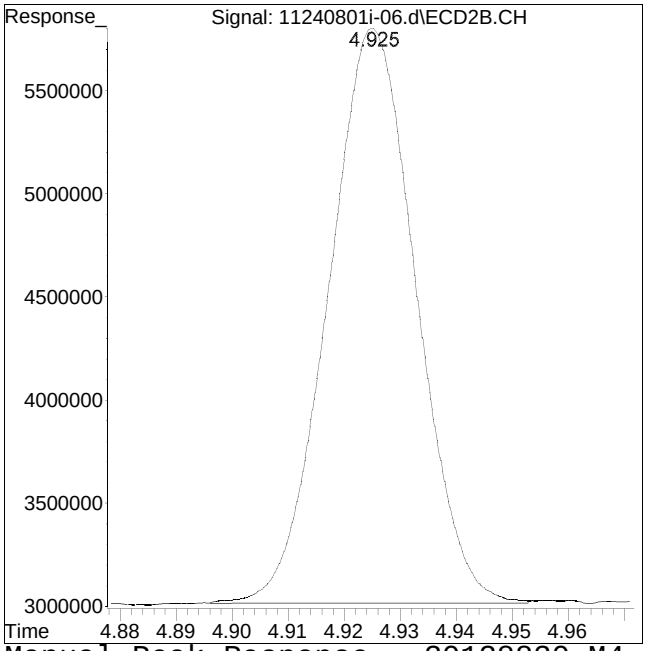
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #56: Endrin #2



Original Peak Response = 30584835



Manual Peak Response = 30138830 M4

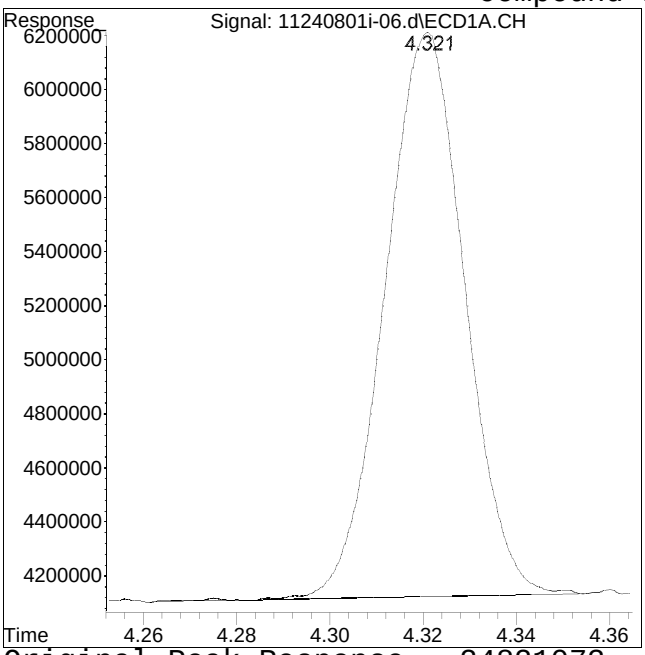
M4 = Poor automated baseline construction.

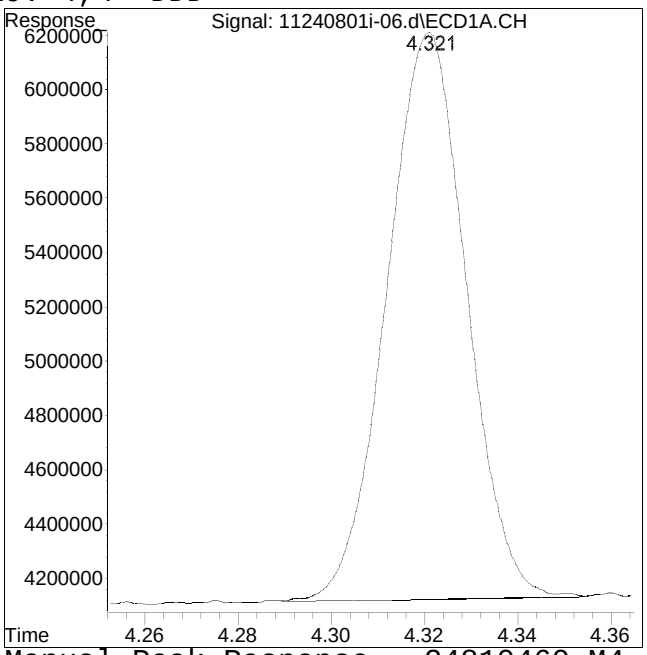
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #19: 4,4'-DDD



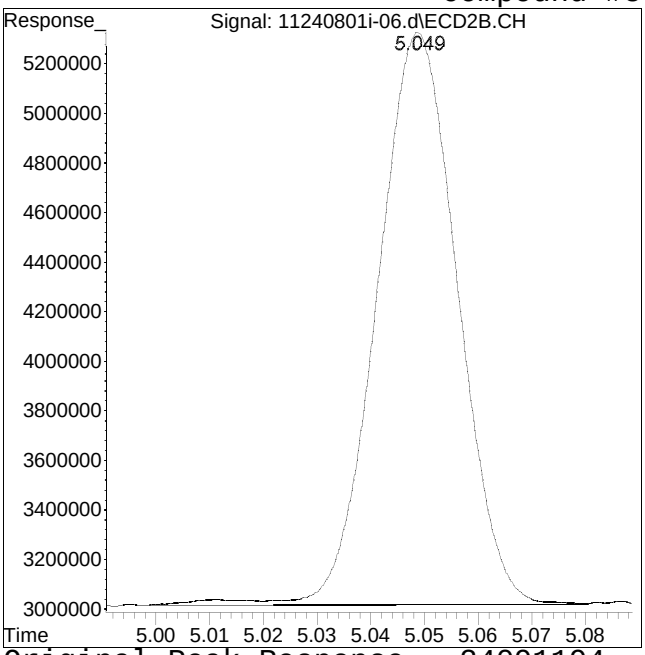


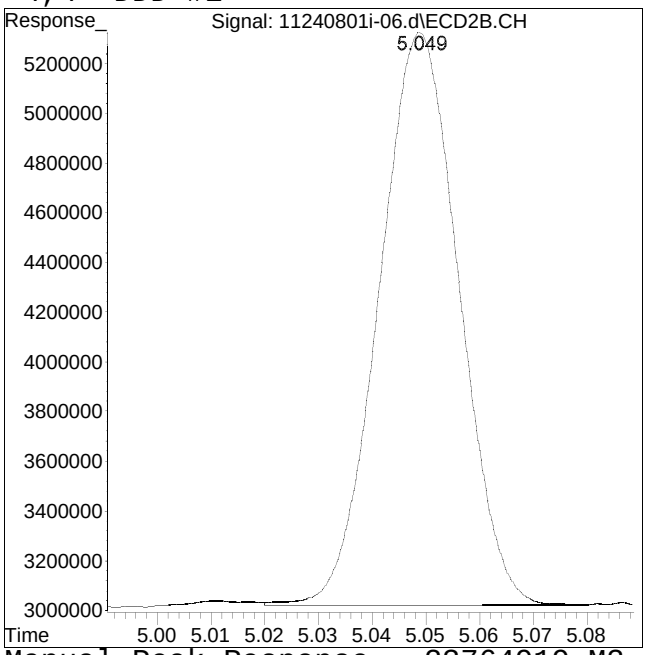
Original Peak Response = 24821073 Manual Peak Response = 24810460 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #57: 4,4'-DDD #2





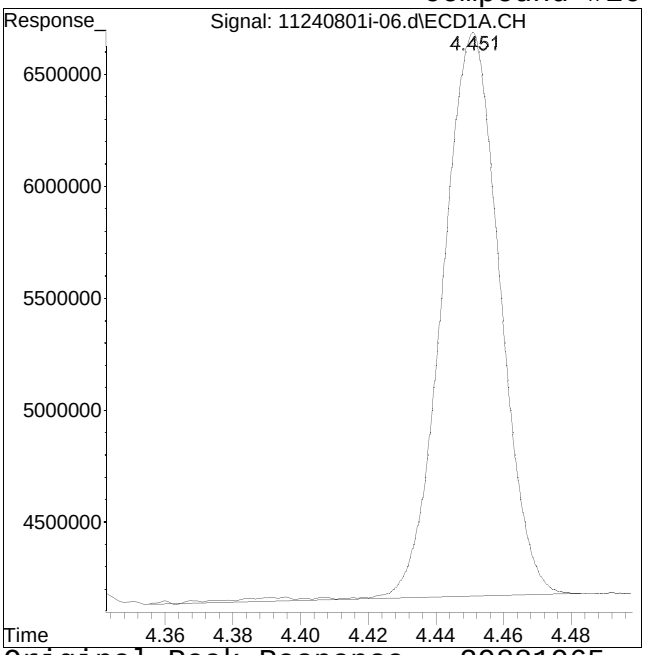
Original Peak Response = 24091194 Manual Peak Response = 23764919 M3

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

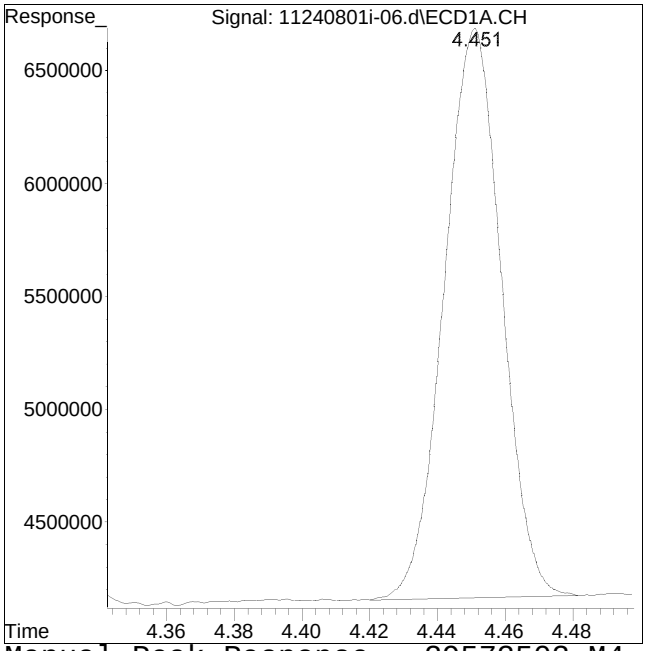
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #20: Endosulfan II



Original Peak Response = 29881965



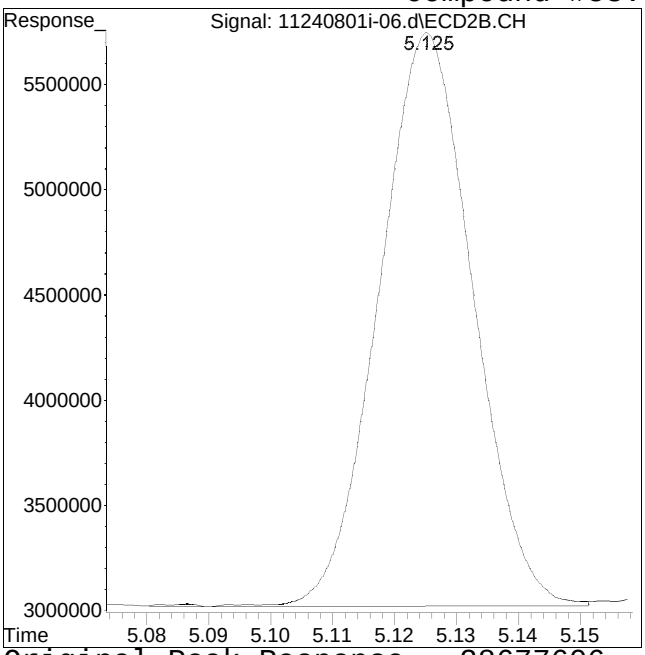
Manual Peak Response = 29573503 M4

M4 = Poor automated baseline construction.

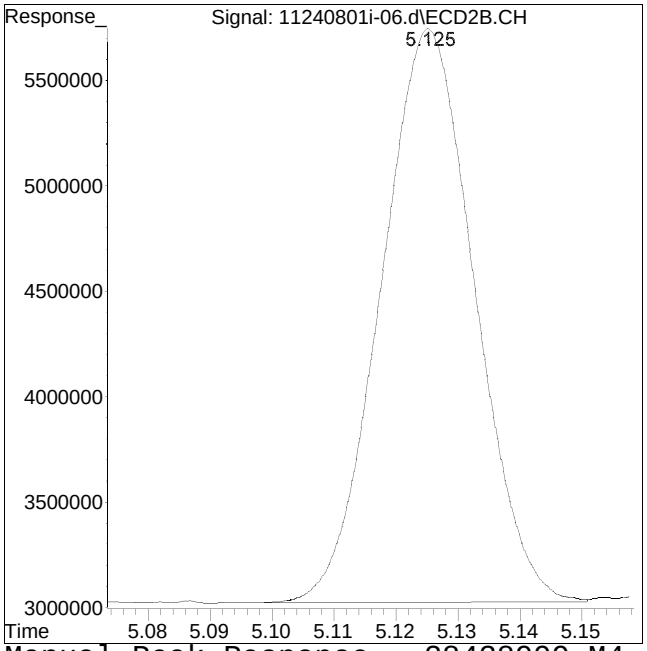
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #58: Endosulfan II #2



Original Peak Response = 28677606



Manual Peak Response = 28438999 M4

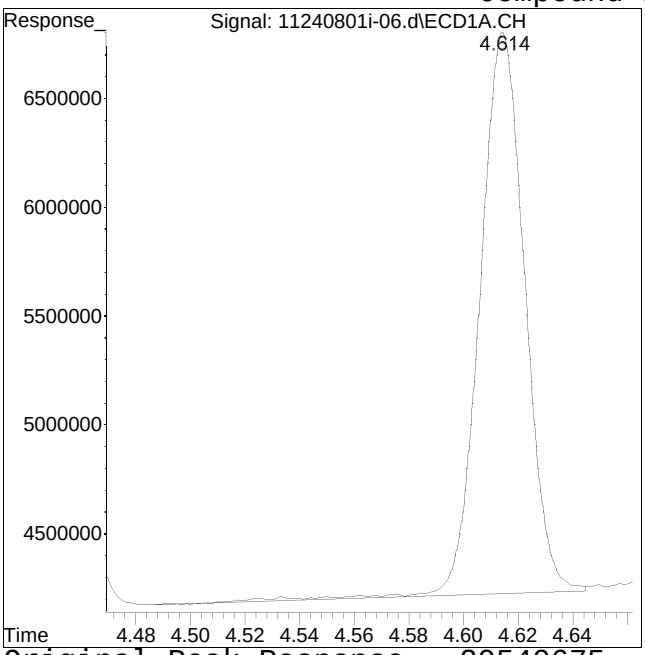
M4 = Poor automated baseline construction.

Manual Integration Report

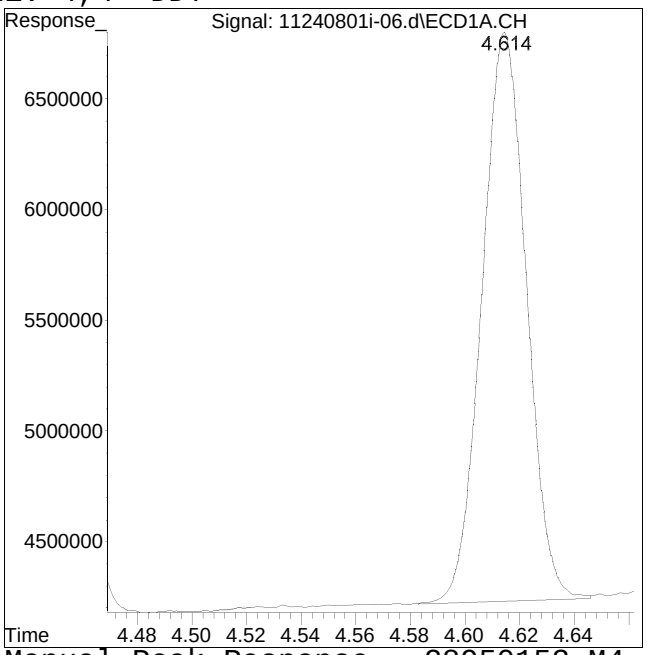
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #21: 4,4'-DDT



Original Peak Response = 29540675



Manual Peak Response = 28950153 M4

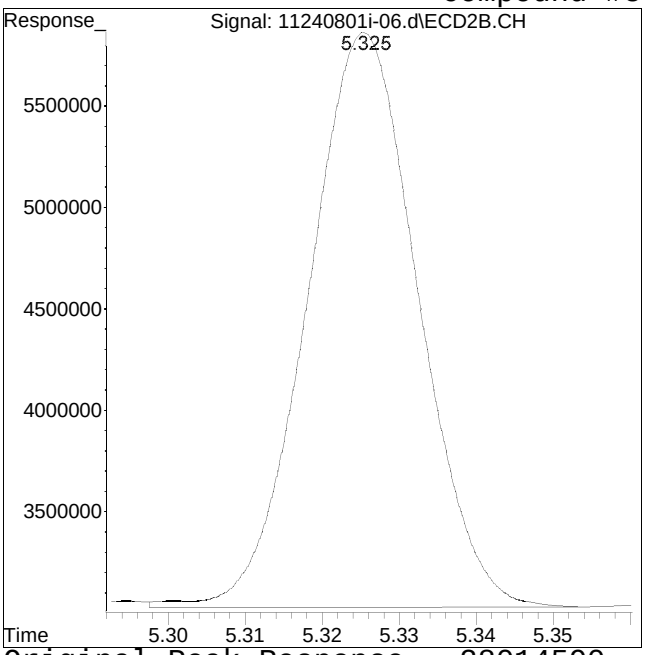
M4 = Poor automated baseline construction.

Manual Integration Report

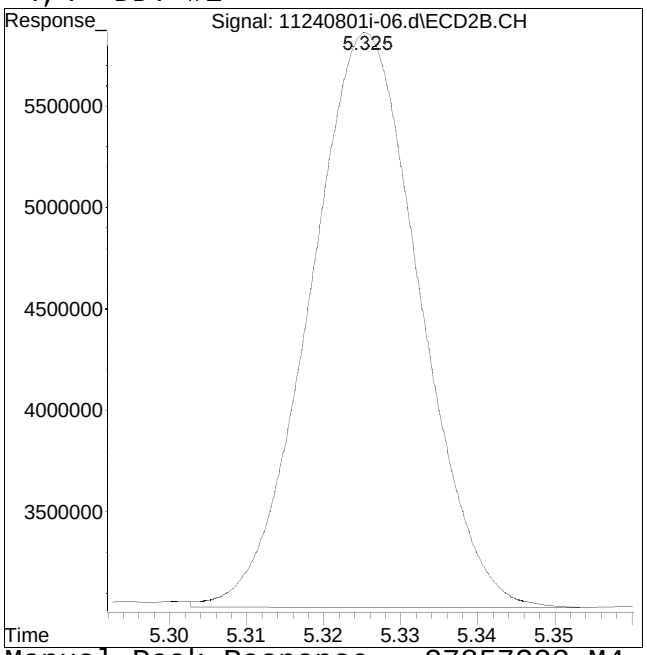
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 28014590



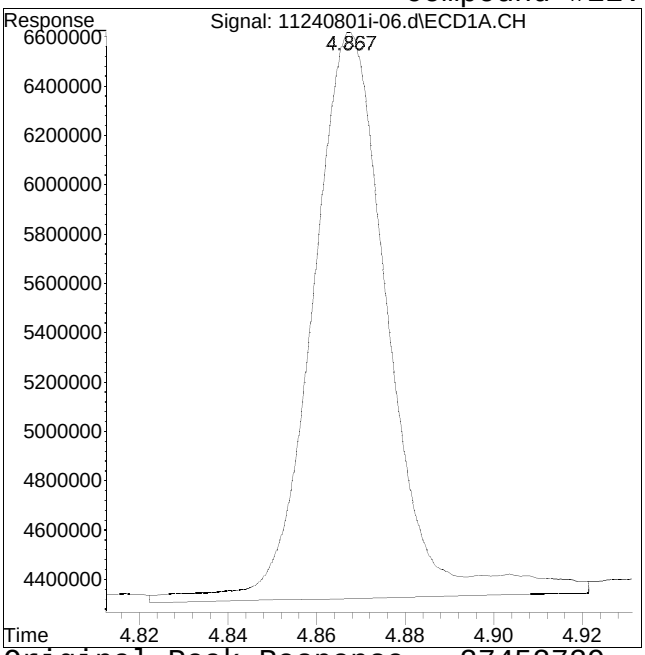
Manual Peak Response = 27857323 M4

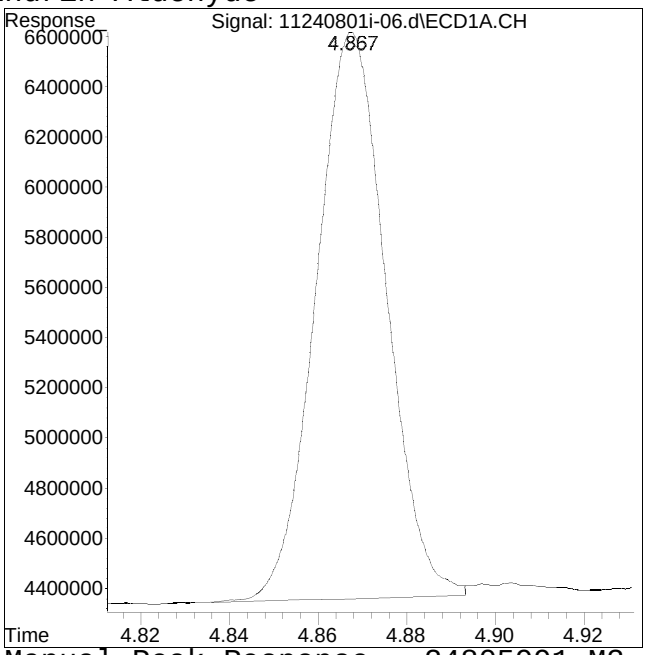
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #22: Endrin Aldehyde





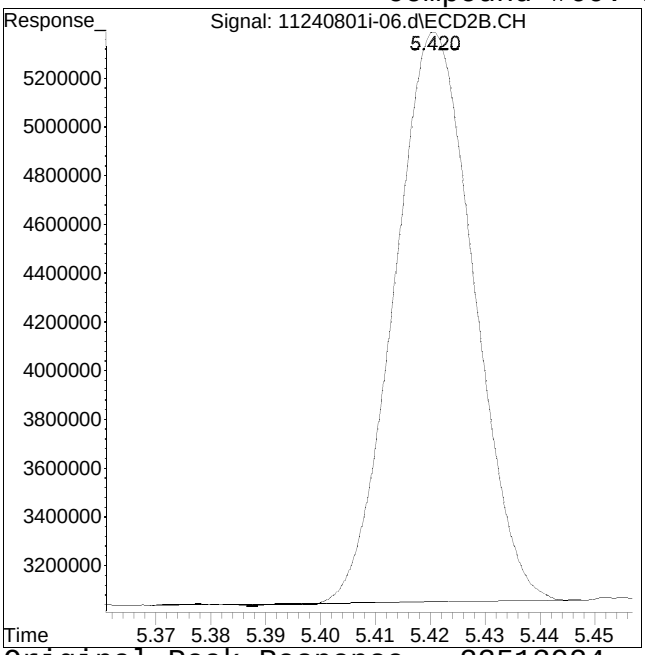
Original Peak Response = 27452739 Manual Peak Response = 24805991 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

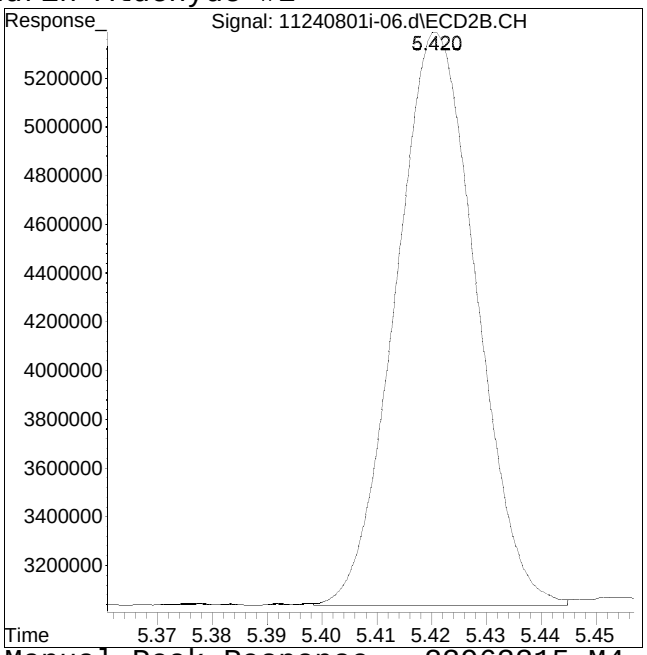
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 23513924



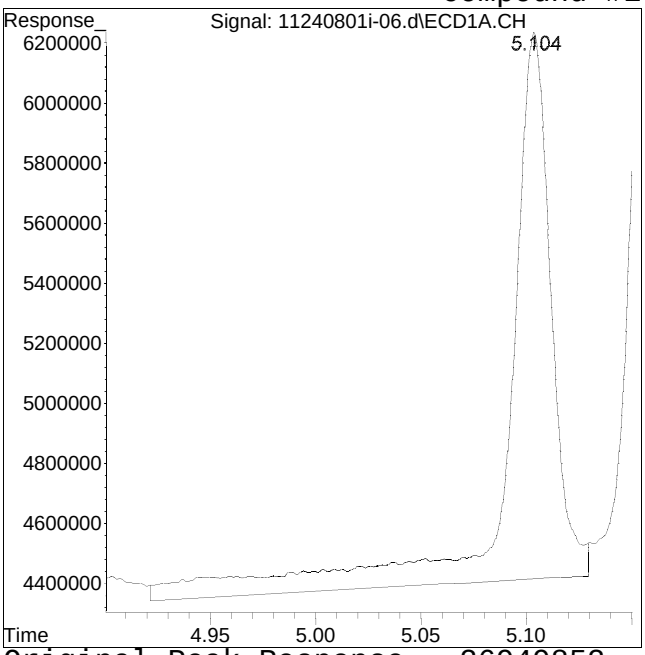
Manual Peak Response = 23963315 M4

M4 = Poor automated baseline construction.

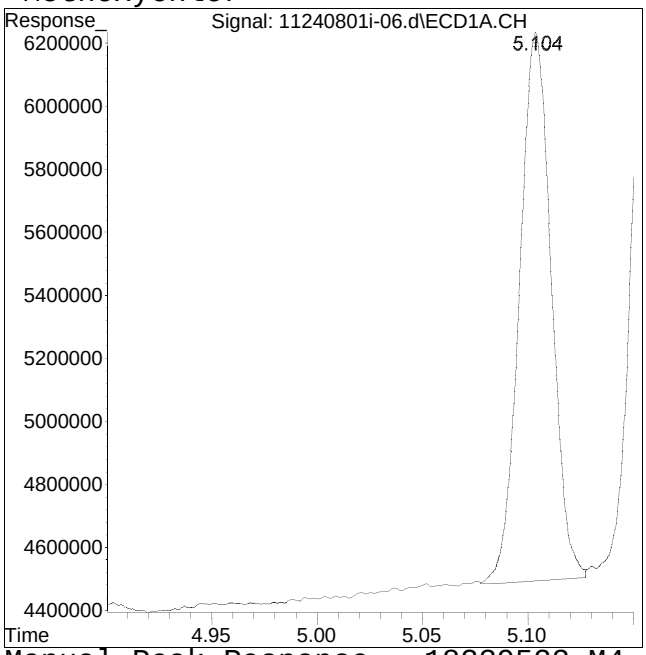
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #23: Methoxychlor



Original Peak Response = 26949852



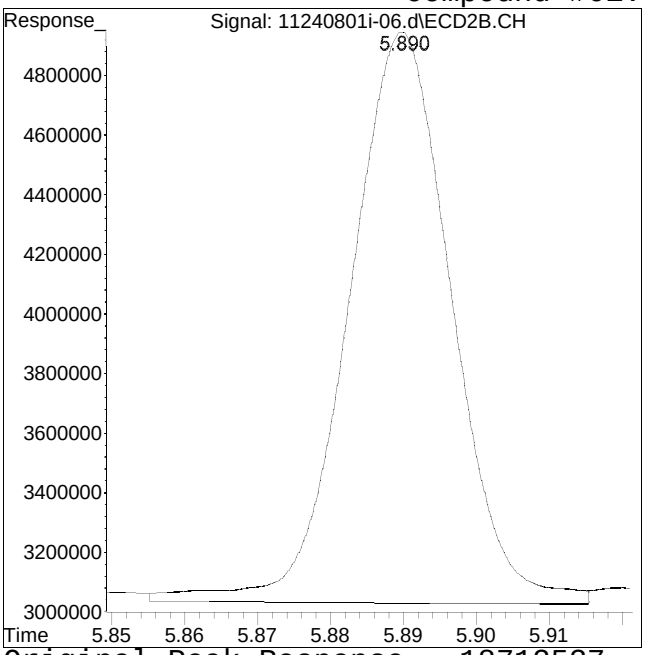
Manual Peak Response = 18239522 M4

M4 = Poor automated baseline construction.

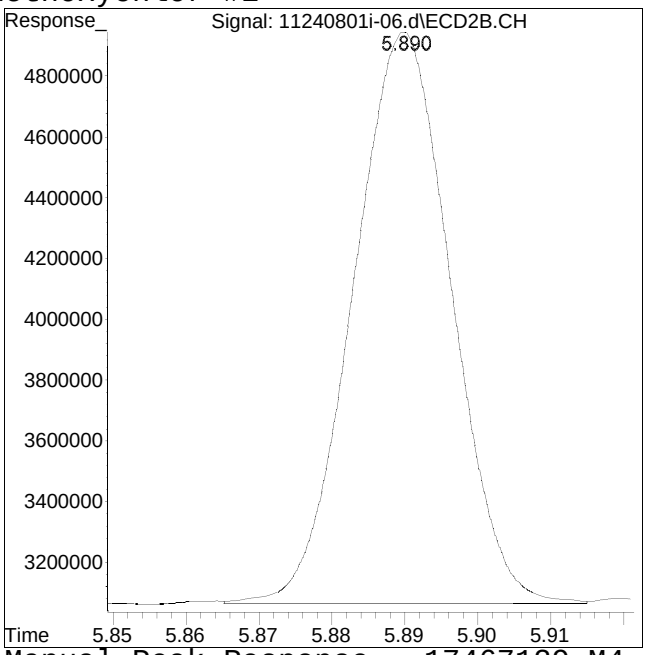
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #61: Methoxychlor #2



Original Peak Response = 18712537



Manual Peak Response = 17467129 M4

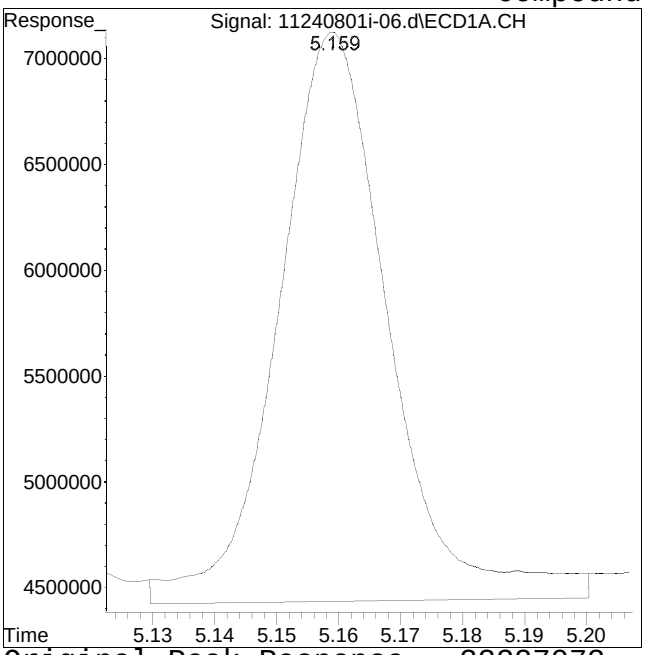
M4 = Poor automated baseline construction.

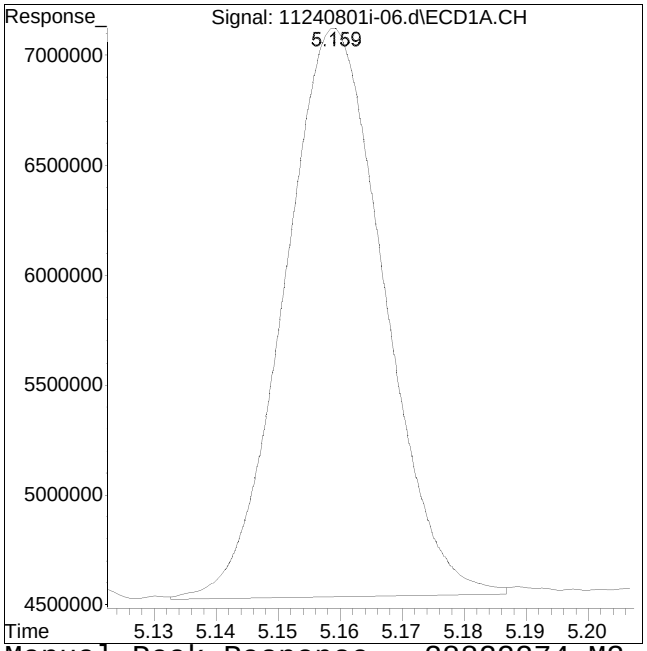
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #24: Mirex





Original Peak Response = 33227073 Manual Peak Response = 28822274 M3

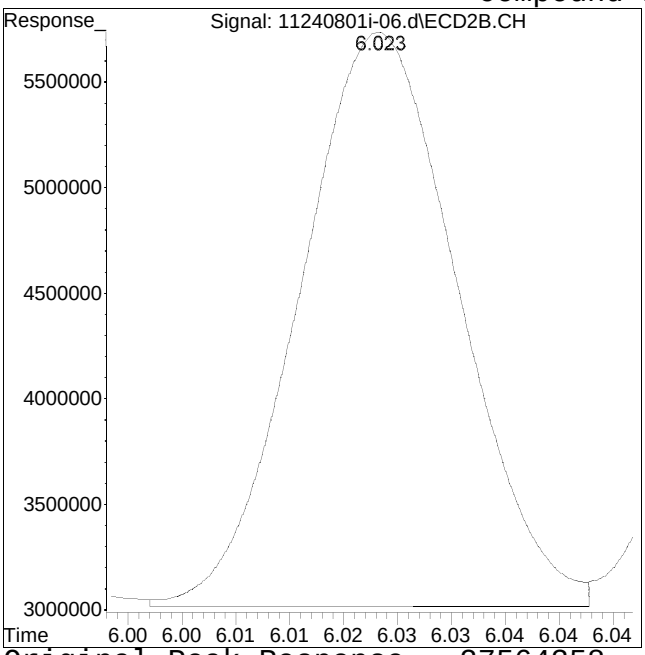
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

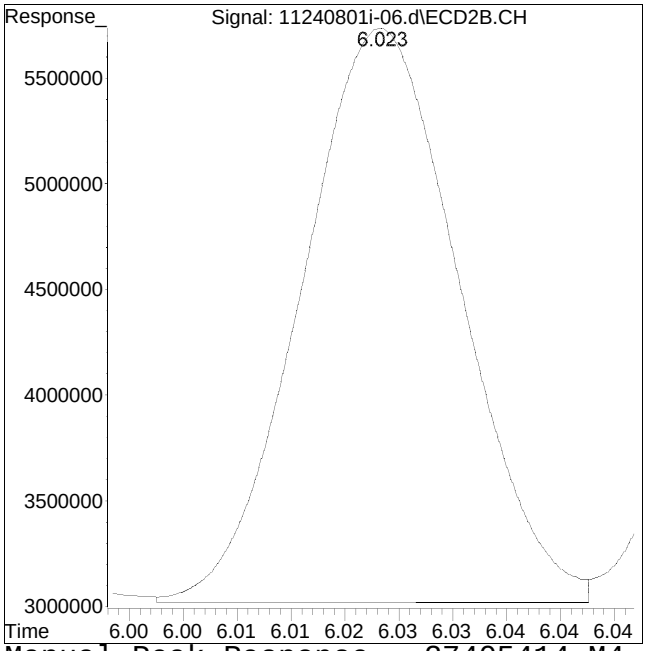
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #62: Mirex #2



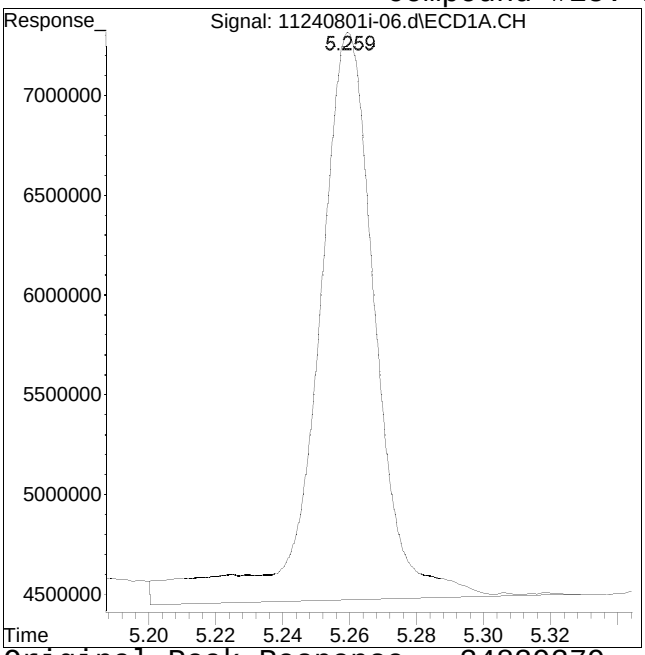


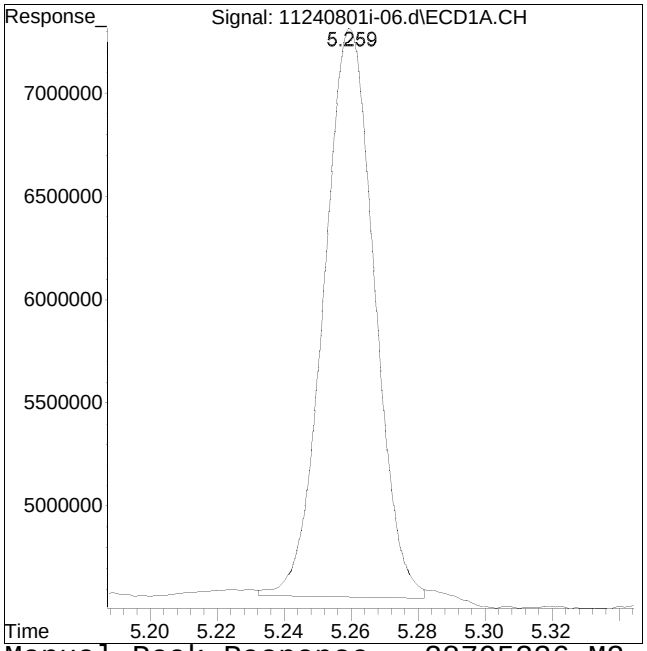
Original Peak Response = 27564358 Manual Peak Response = 27405414 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #25: Endosulfan Sulfate





Original Peak Response = 34839379 Manual Peak Response = 28795336 M3

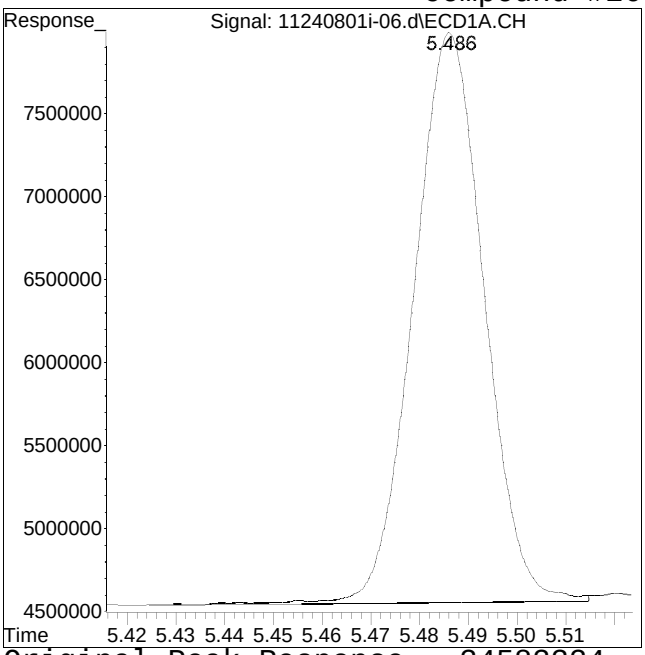
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

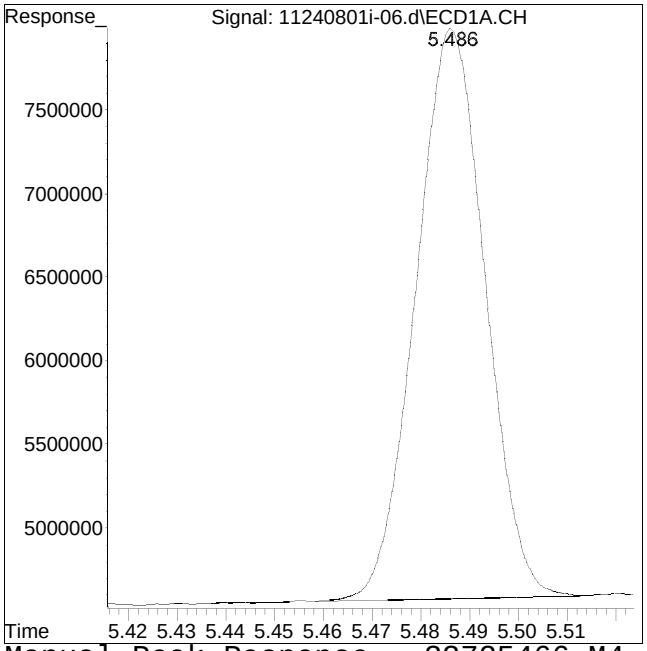
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #26: Endrin Ketone



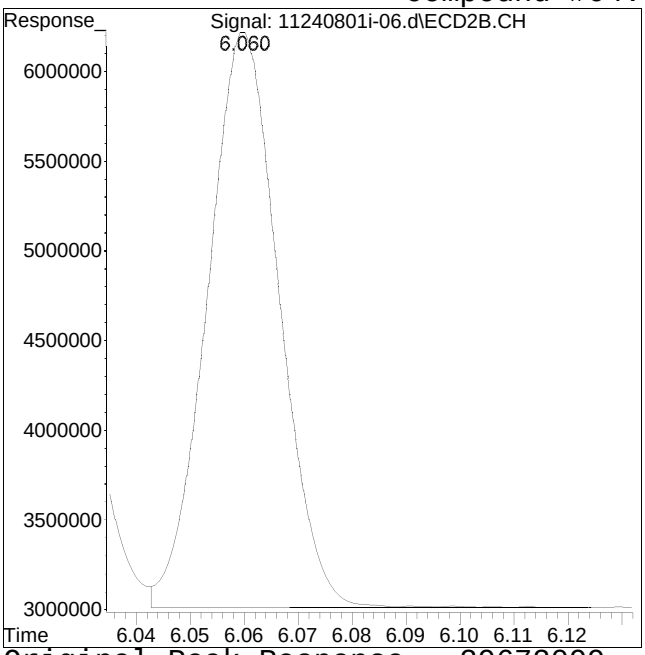


Original Peak Response = 34583334 Manual Peak Response = 33725466 M4
M4 = Poor automated baseline construction.

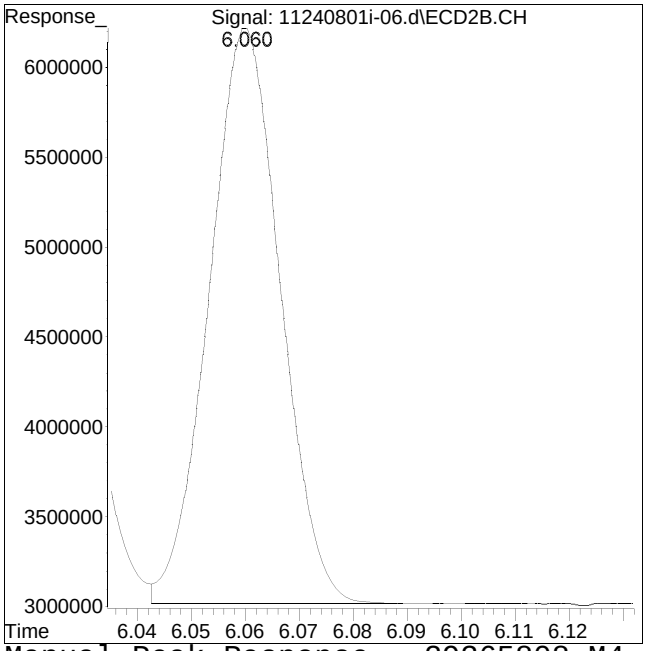
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #64: Endrin Ketone #2



Original Peak Response = 29672099



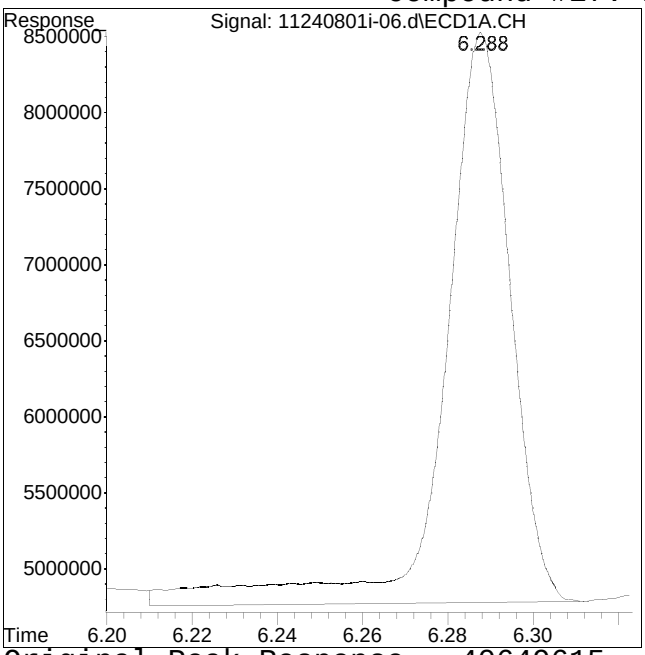
Manual Peak Response = 29365808 M4

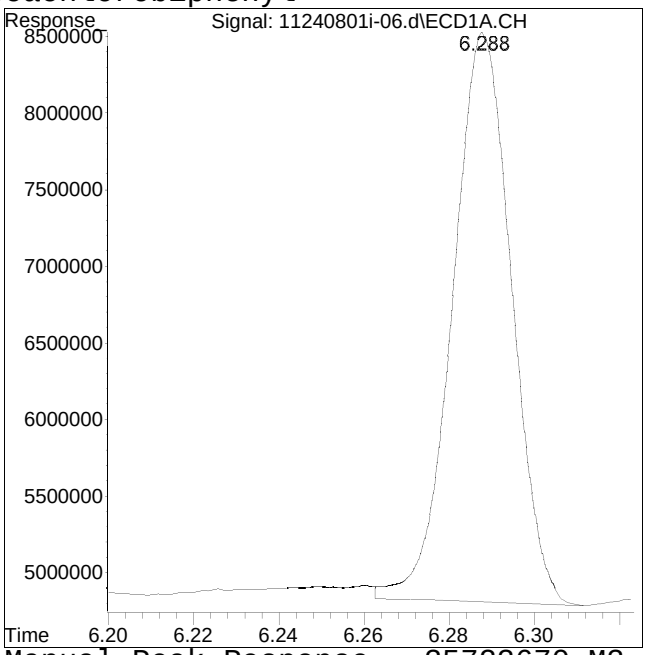
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #27: Decachlorobiphenyl





Original Peak Response = 40649615 Manual Peak Response = 35723670 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:25
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:53:34 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:53:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	236.8E6	187.7E6	25.000M4	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.651	1.858	38521121	33228326	3.958M4	4.126M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.92%#	8.25%#
27) s	Decachlorobi	6.288	6.922	45749494	33190514	4.585M3	4.626M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		9.17%#	9.25%#
	Target Compounds						
3) t	Hexachlorobe	1.864	2.177	53831993	37517540	4.262M3	4.355M3
4) t	alpha-BHC	1.963	2.270	50099814	44404100	3.378	3.499M4
5) t	gamma-BHC (l	2.165	2.556	48429966	42423894	3.532M4	3.691M4
6) t	beta-BHC	2.221	2.622	23627338	22130202	4.112M4	4.572M4
7) t	delta-BHC	2.349	2.889	47212643	42358835	3.409M4	3.618
8) t	Heptachlor	2.513	2.951	48539979	47303379	3.873M4	4.125M4
9) t	Aldrin	2.755	3.270	43725904	41038709	3.629M3	3.833M4
10) t	Alachlor	2.876	3.152	8846077	7914947	4.229M4	5.313M4
11) t	Chlorpyrifos	2.968	3.506	24028161	29105048	4.744M4	5.206

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:25
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:53:34 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:53:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.883	43926945	42803293	3.942M3	4.261M4
13)	t	gamma-Chlord	3.424	4.104	38878589	38970708	3.786M4	4.193M4
14)	t	alpha-Chlord	3.559	4.273	44728489	43103625	3.859M3	4.197M4
15)	t	4,4'-DDE	3.656	4.472	42411214	37932784	3.626M4	3.740M3
16)	t	Endosulfan I	3.695	4.335	41113069	40054576	3.894	4.272M4
17)	t	Dieldrin	3.954	4.627	40416298	38468360	3.654M4	3.937M4
18)	t	Endrin	4.209	4.925	41670444	39189618	3.747M4	3.963M4
19)	t	4,4'-DDD	4.321	5.049	32563209	30675797	3.557M4	3.766M4
20)	t	Endosulfan I	4.451	5.125	38878709	36626235	3.907M4	4.280M4
21)	t	4,4'-DDT	4.615	5.326	37823947	35899886	3.661M4	3.859M4
22)	t	Endrin Aldeh	4.868	5.421	32912480	30791502	3.951M4	4.329M4
23)	t	Methoxychlor	5.103	5.890	23121492	22184815	4.437M4	4.706M4
24)	t	Mirex	5.159	6.023	37112581	34701868	4.423M4	4.946M4
25)	t	Endosulfan S	5.259	5.650	37357641	36575099	4.010M3	4.387M4
26)	t	Endrin Keton	5.486	6.060	44230088	37958462	3.979M4	4.219M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:25
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:53:34 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:53:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

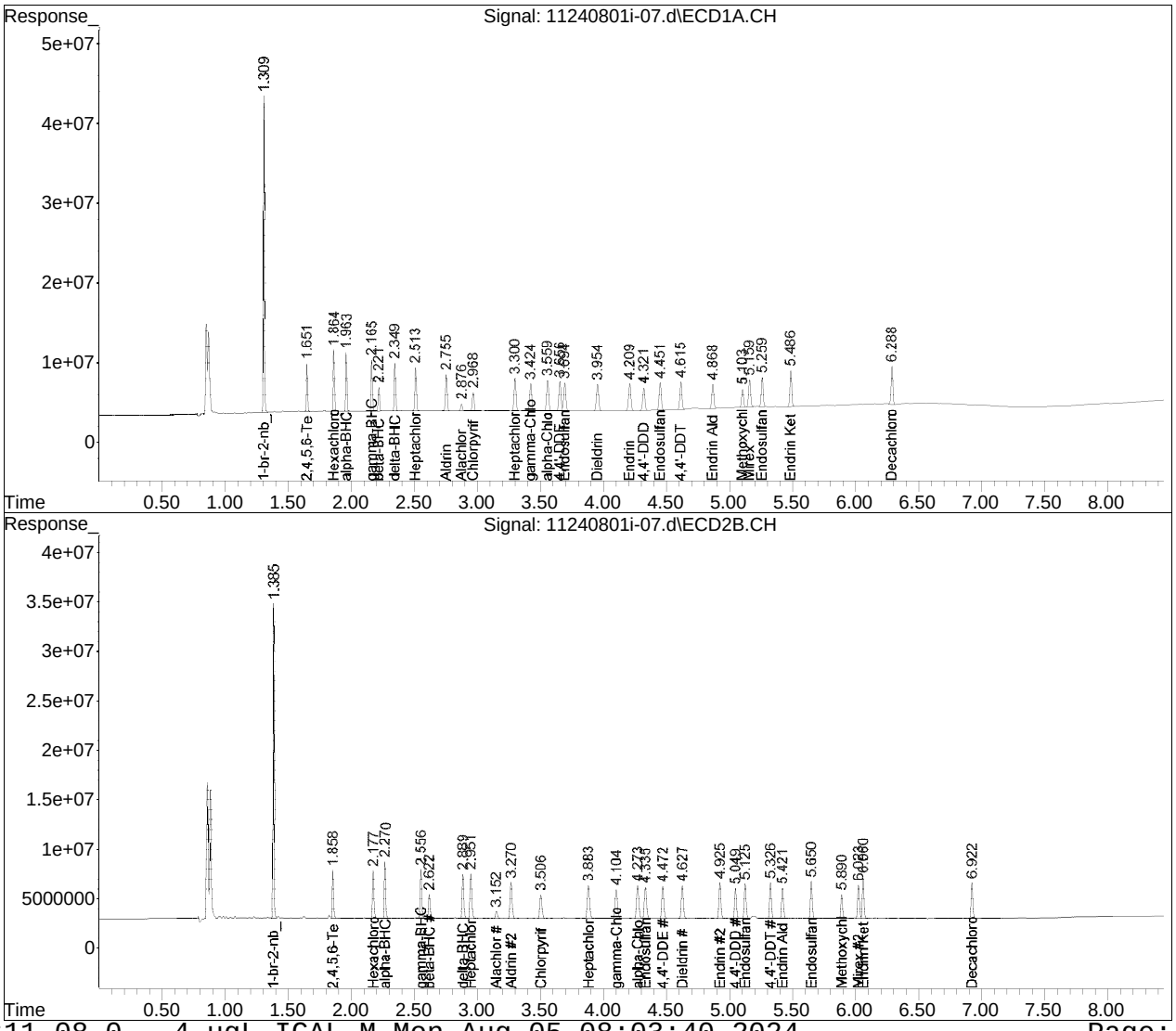
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:25
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:53:34 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:53:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

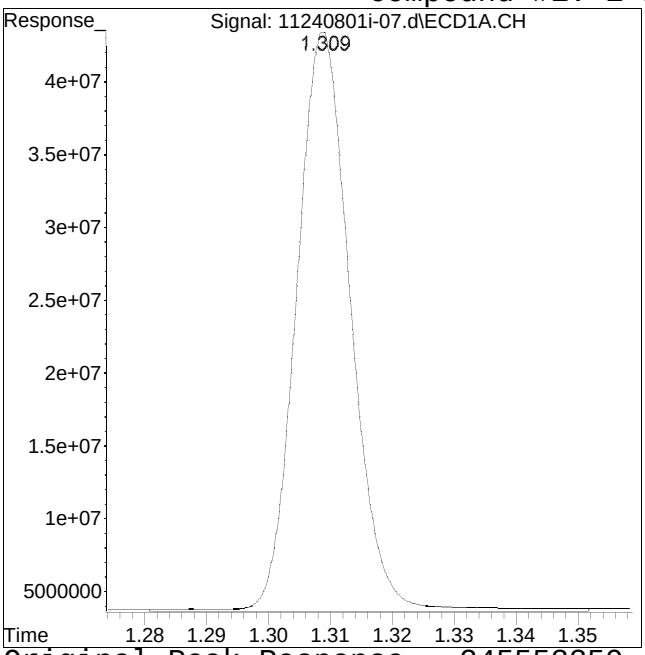


Manual Integration Report

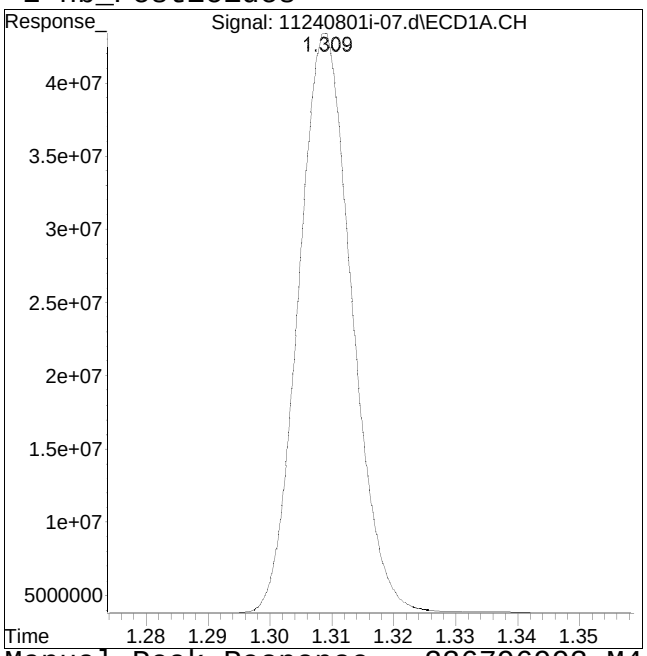
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 245553359



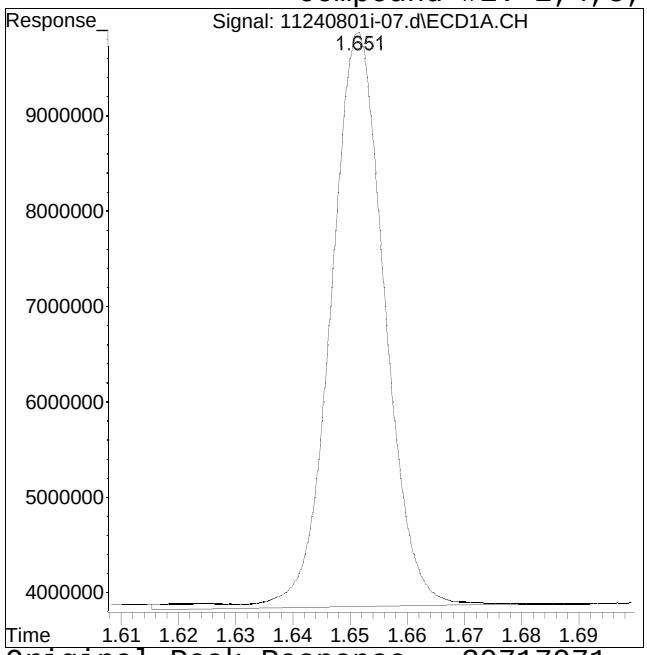
Manual Peak Response = 236796993 M4

M4 = Poor automated baseline construction.

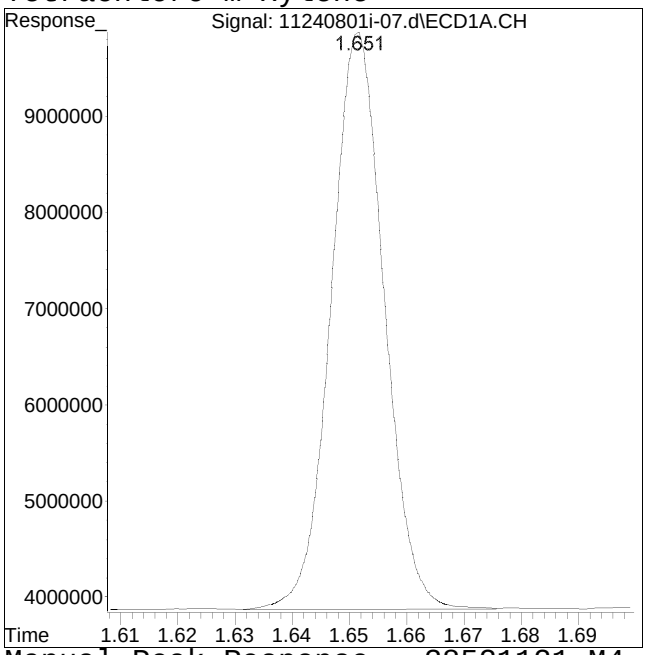
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 39717971



Manual Peak Response = 38521121 M4

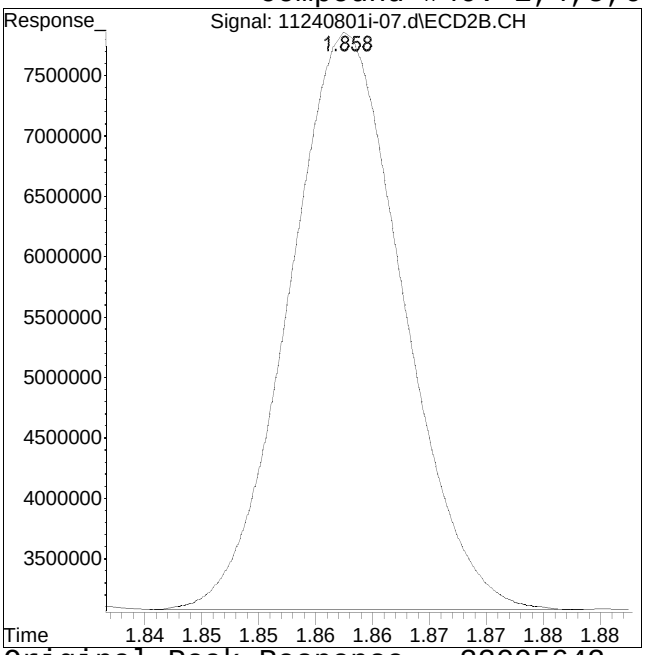
M4 = Poor automated baseline construction.

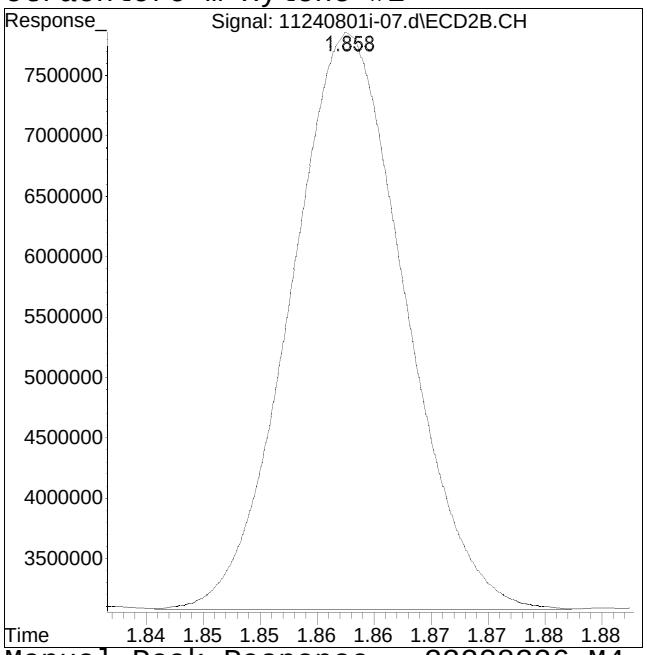
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2





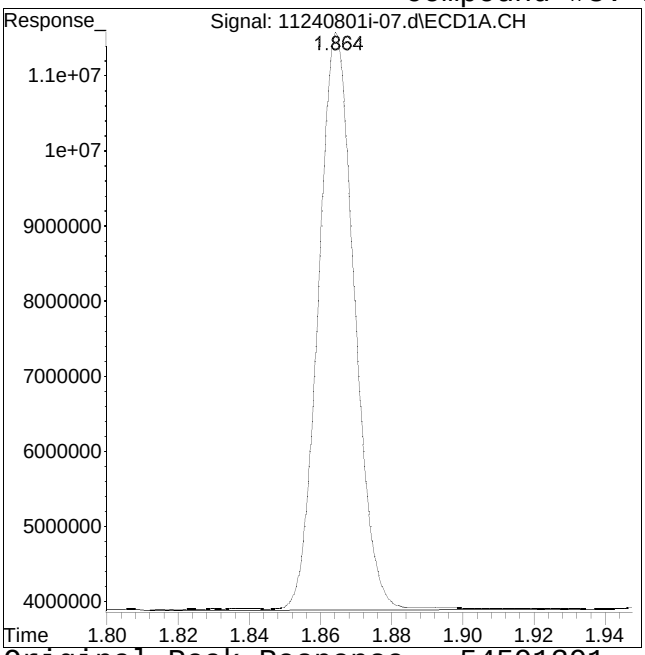
Original Peak Response = 33095642 Manual Peak Response = 33228326 M4
M4 = Poor automated baseline construction.

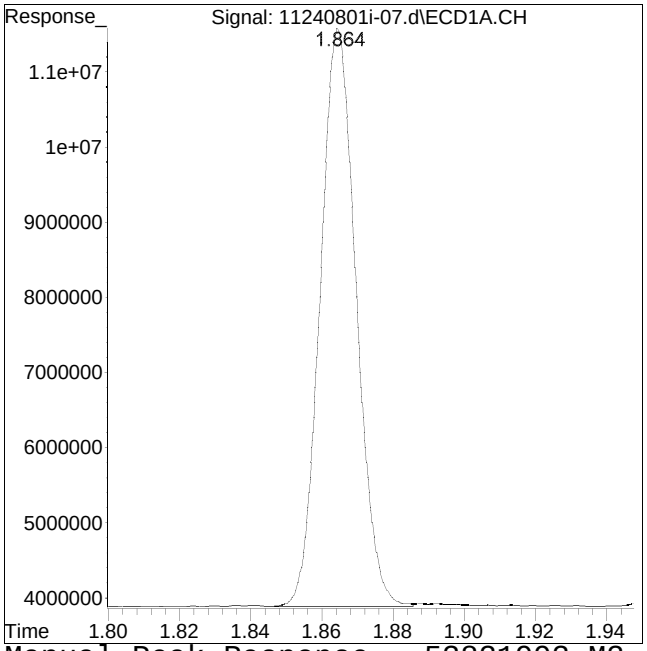
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #3: Hexachlorobenzene





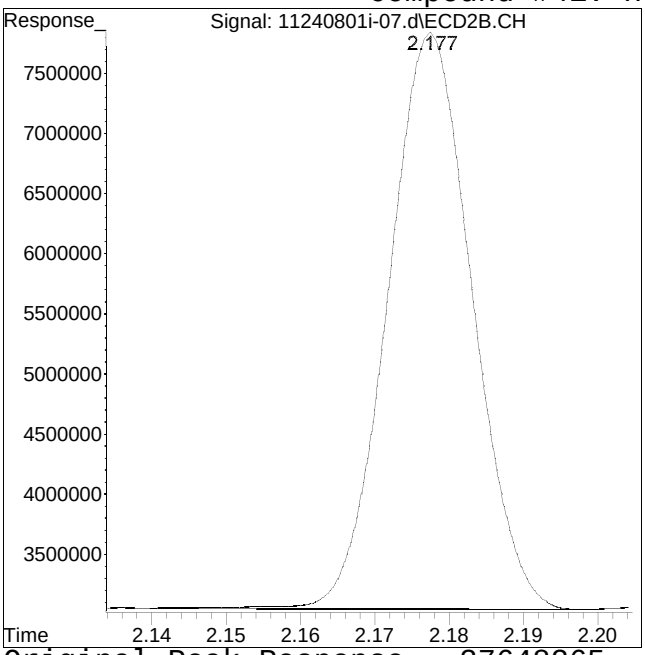
Original Peak Response = 54591391 Manual Peak Response = 53831993 M3

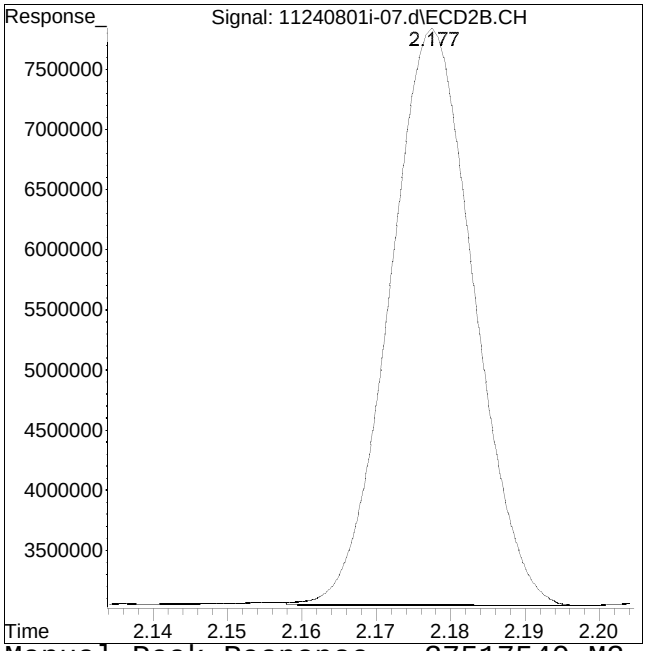
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #41: Hexachlorobenzene #2





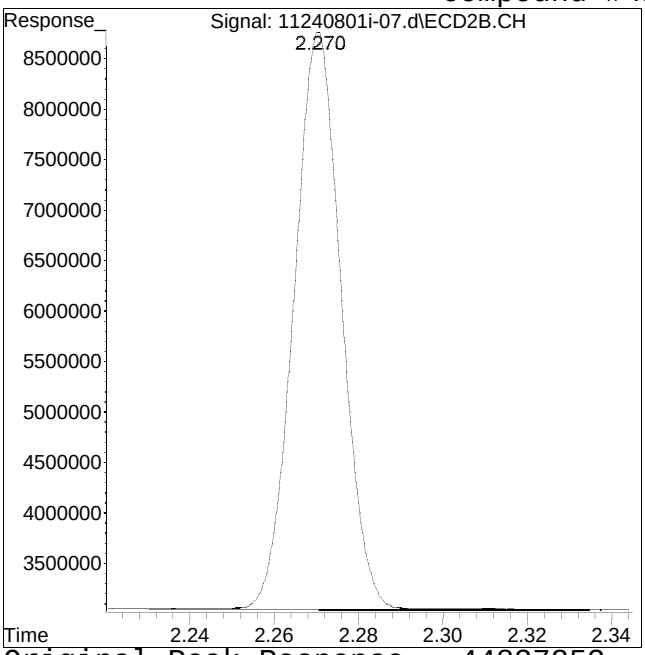
Original Peak Response = 37648265 Manual Peak Response = 37517540 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

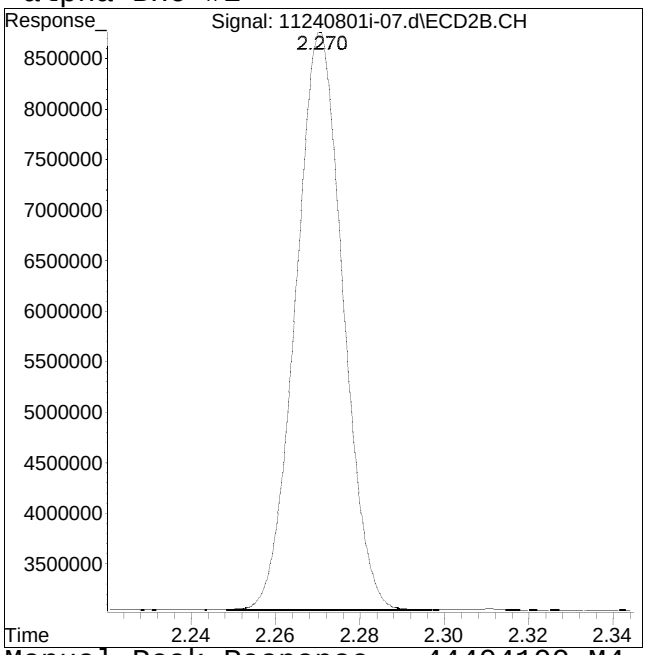
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #42: alpha-BHC #2



Original Peak Response = 44837253



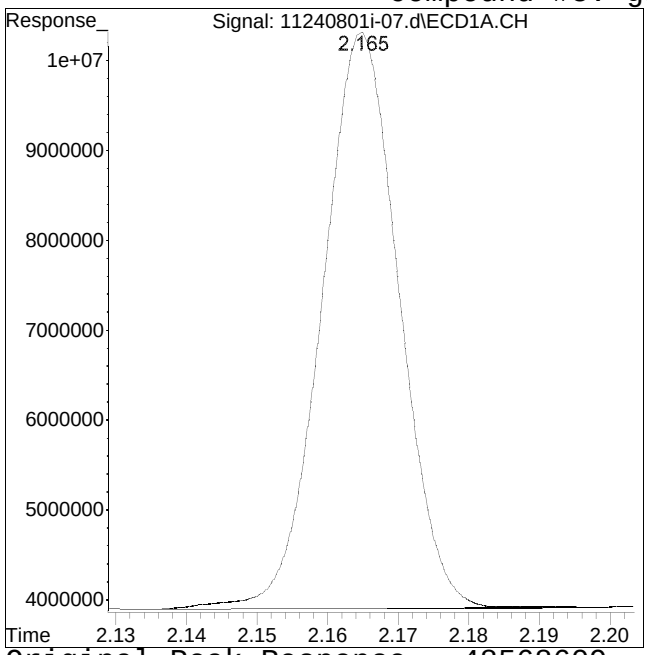
Manual Peak Response = 44404100 M4

M4 = Poor automated baseline construction.

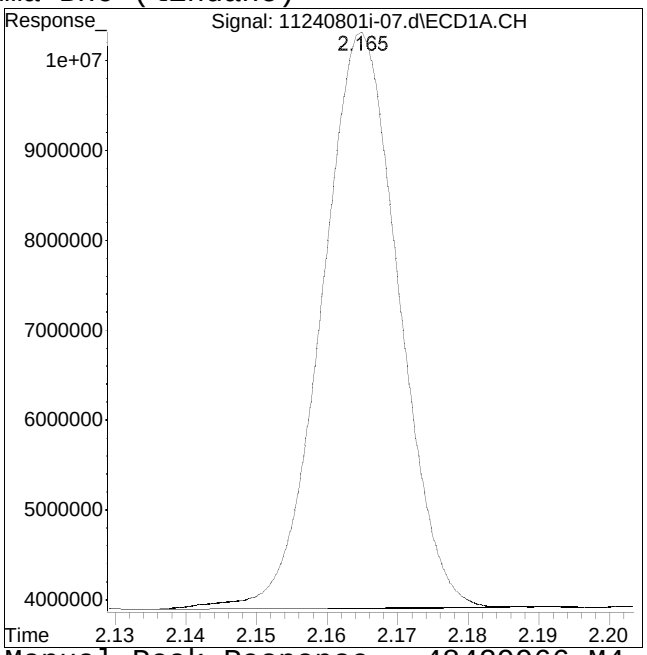
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 48568609

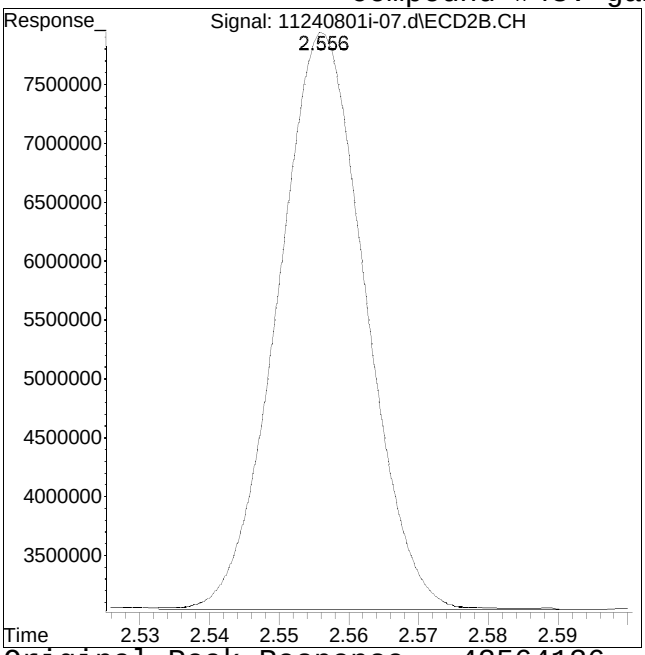


Manual Peak Response = 48429966 M4
M4 = Poor automated baseline construction.

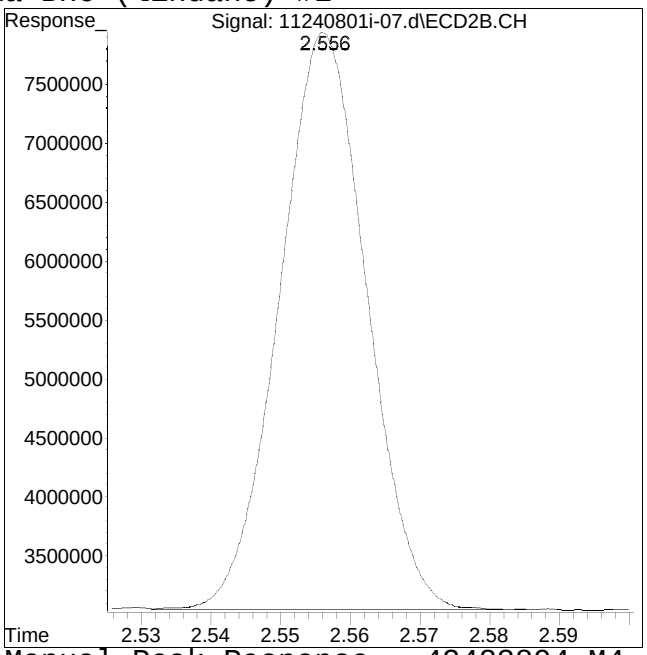
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 42564136



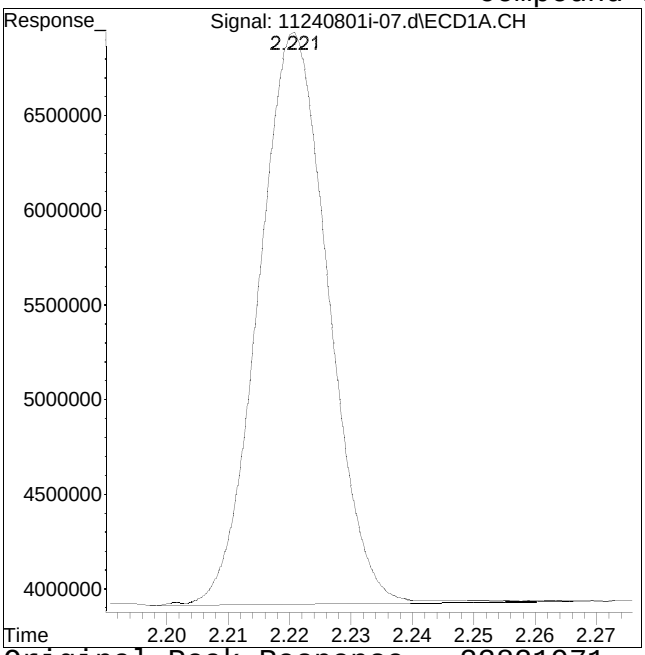
Manual Peak Response = 42423894 M4

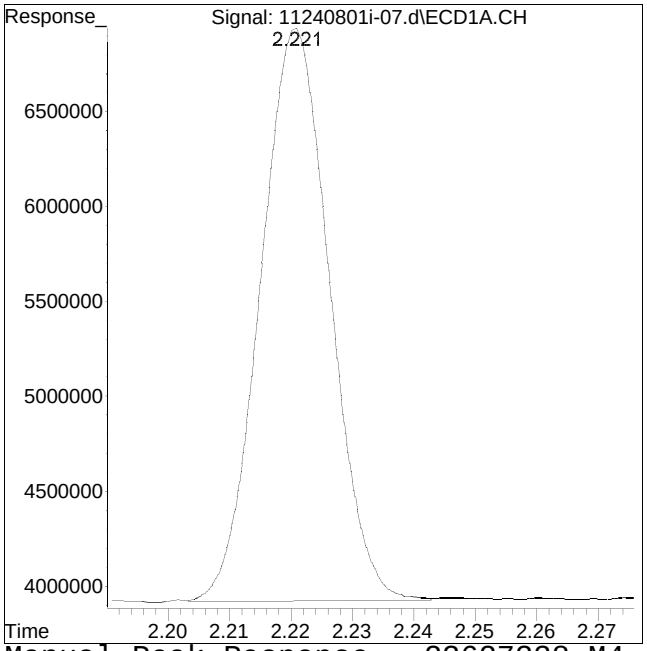
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #6: beta-BHC





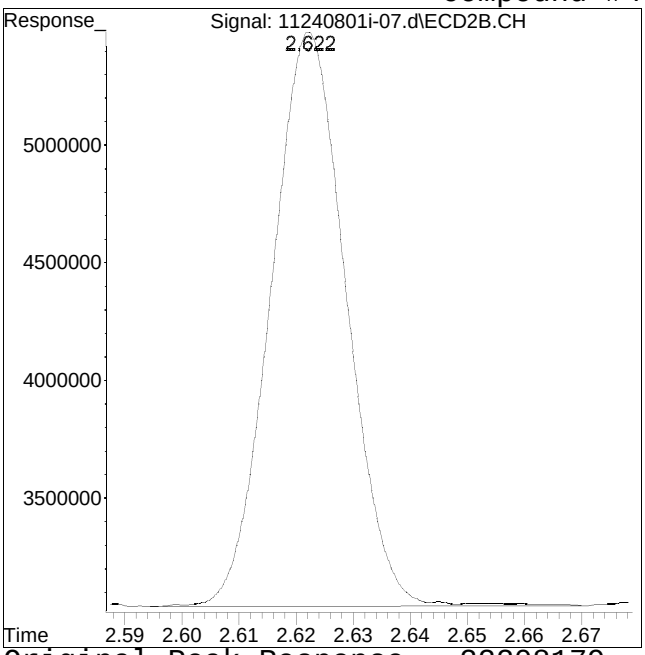
Original Peak Response = 23821971 Manual Peak Response = 23627338 M4
M4 = Poor automated baseline construction.

Manual Integration Report

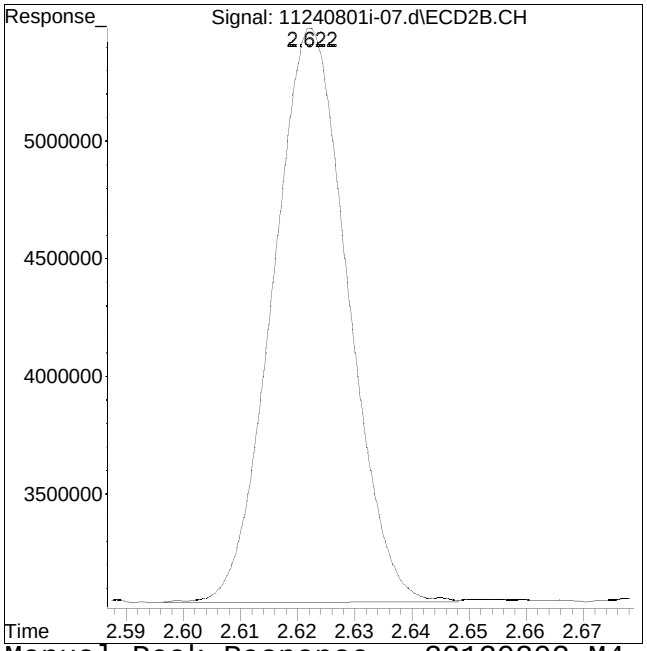
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #44: beta-BHC #2



Original Peak Response = 22208179



Manual Peak Response = 22130202 M4

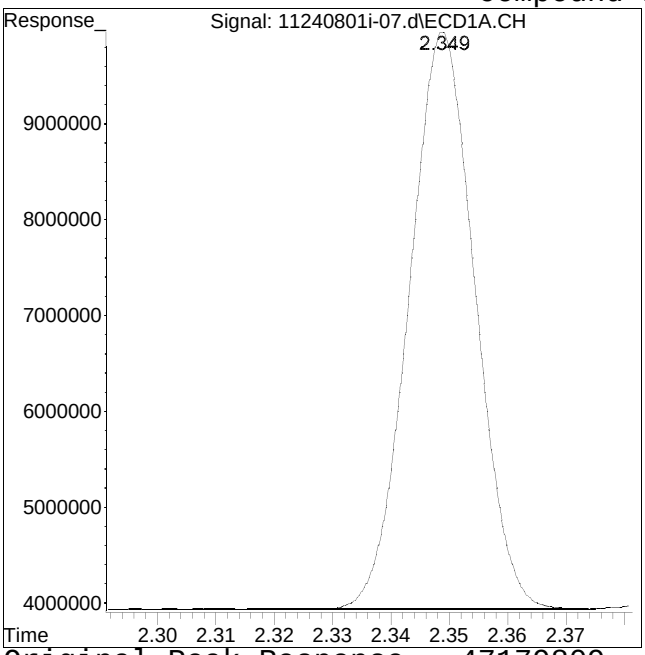
M4 = Poor automated baseline construction.

Manual Integration Report

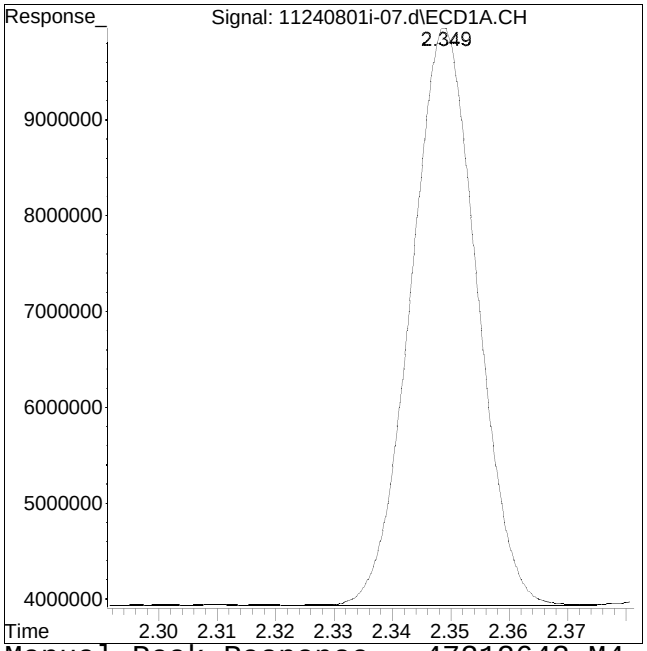
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #7: delta-BHC



Original Peak Response = 47179809



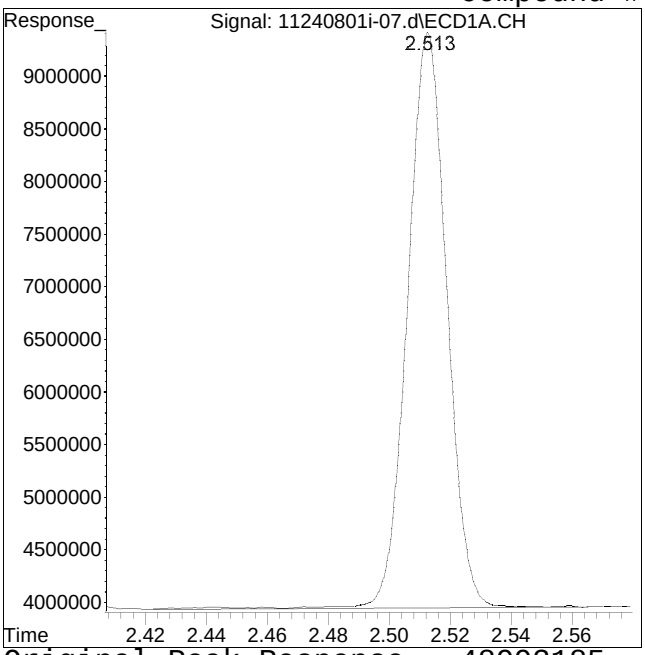
Manual Peak Response = 47212643 M4

M4 = Poor automated baseline construction.

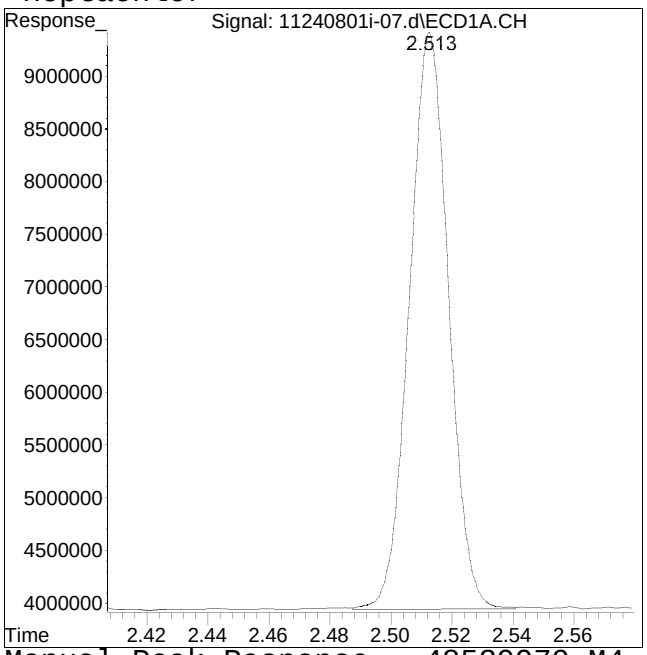
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #8: Heptachlor



Original Peak Response = 48993185



Manual Peak Response = 48539979 M4

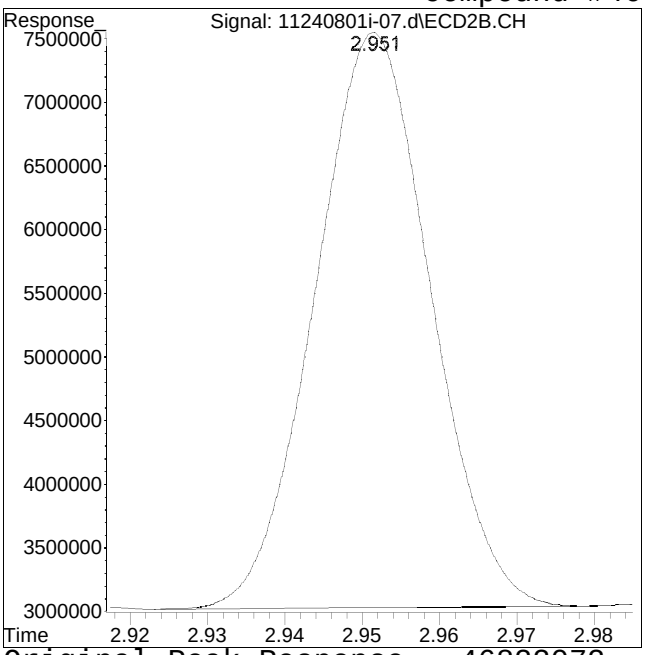
M4 = Poor automated baseline construction.

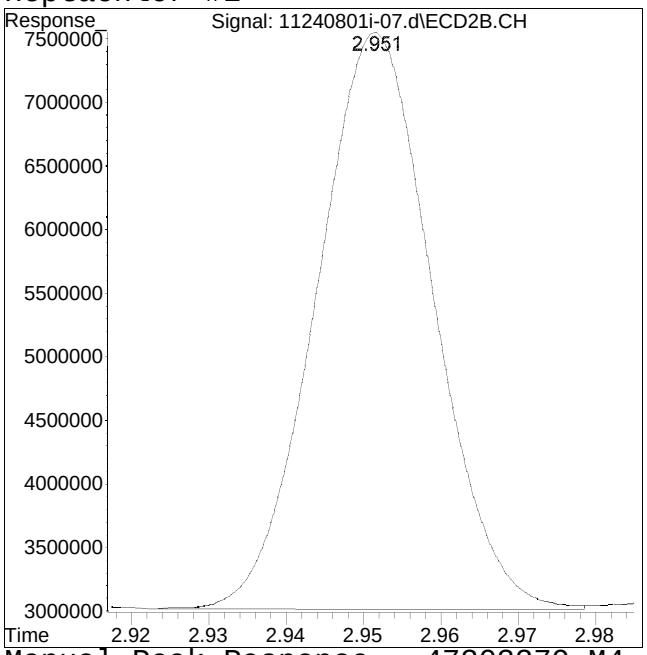
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #46: Heptachlor #2





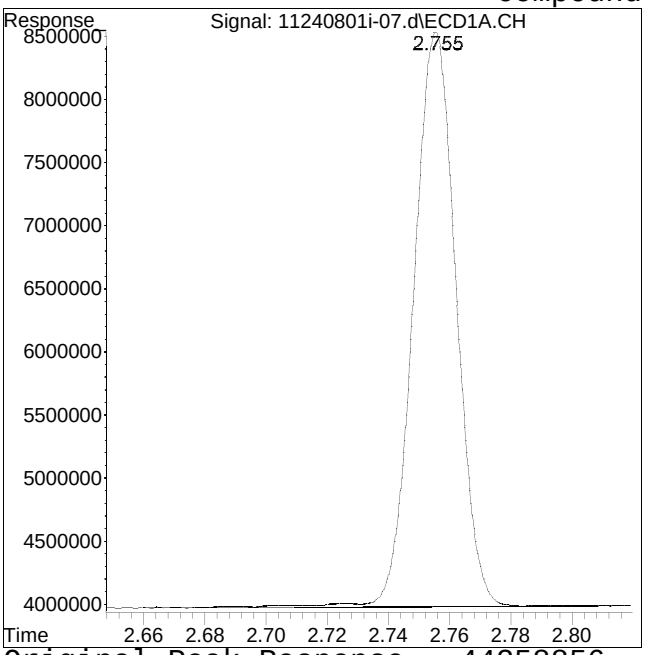
Original Peak Response = 46822072 Manual Peak Response = 47303379 M4
M4 = Poor automated baseline construction.

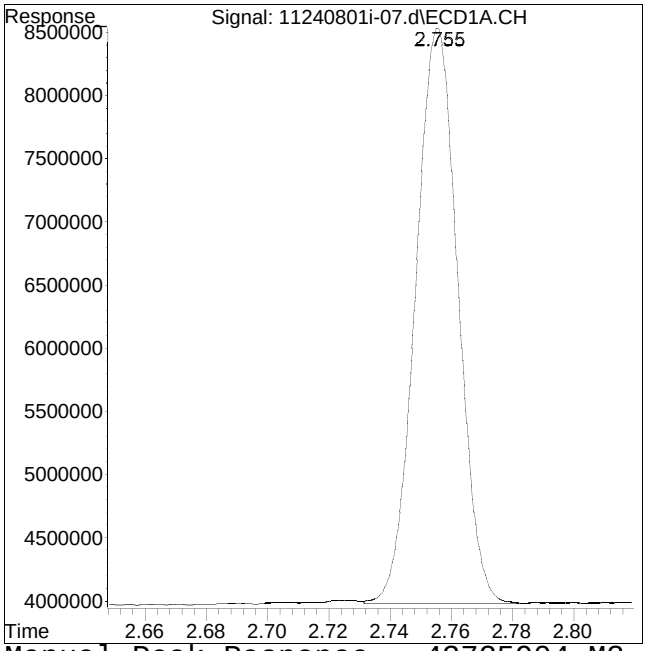
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #9: Aldrin





Original Peak Response = 44258856 Manual Peak Response = 43725904 M3

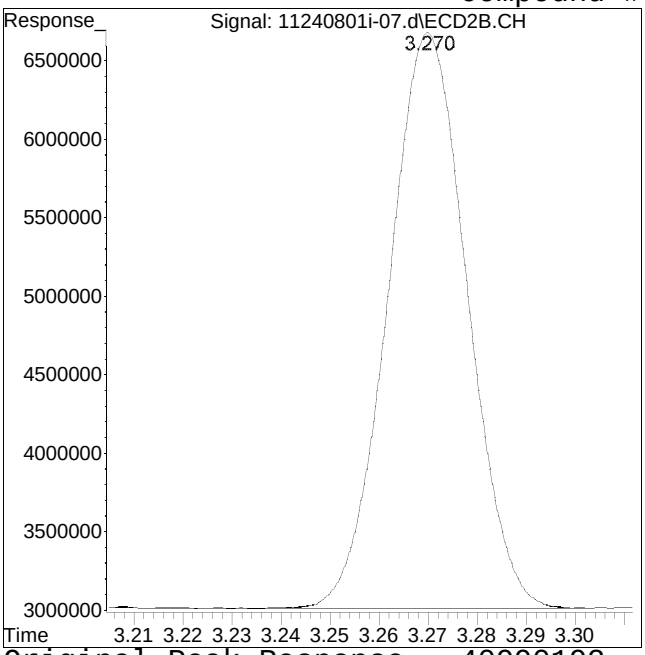
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

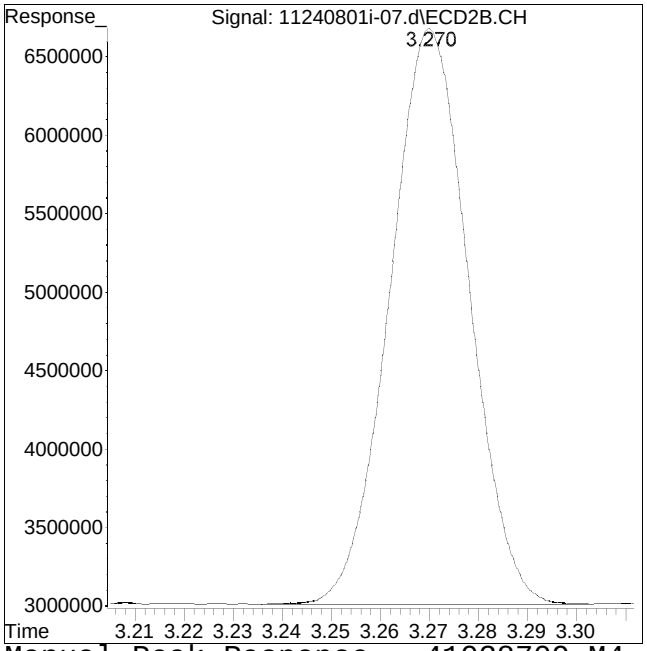
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #47: Aldrin #2



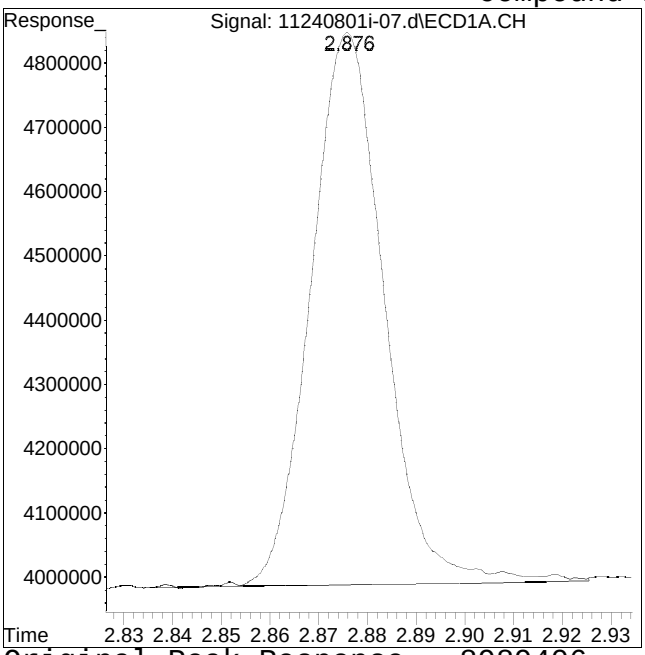


Original Peak Response = 40990192 Manual Peak Response = 41038709 M4
M4 = Poor automated baseline construction.

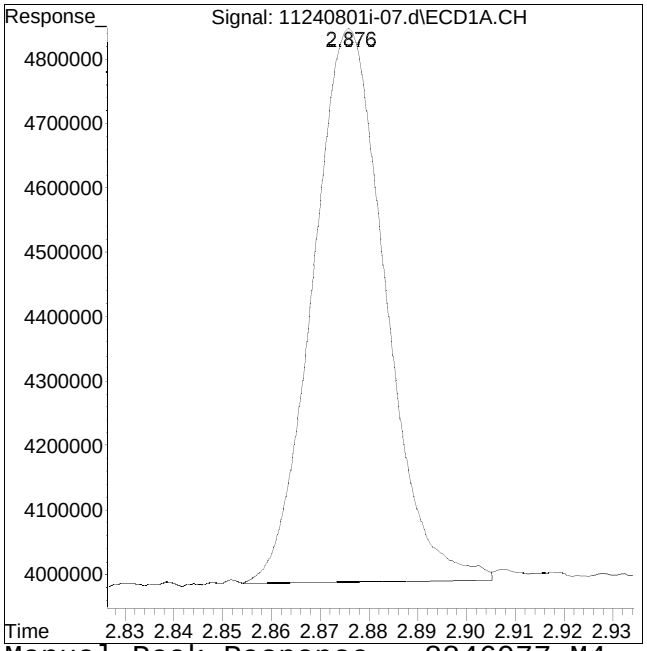
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #10: Alachlor



Original Peak Response = 8989406



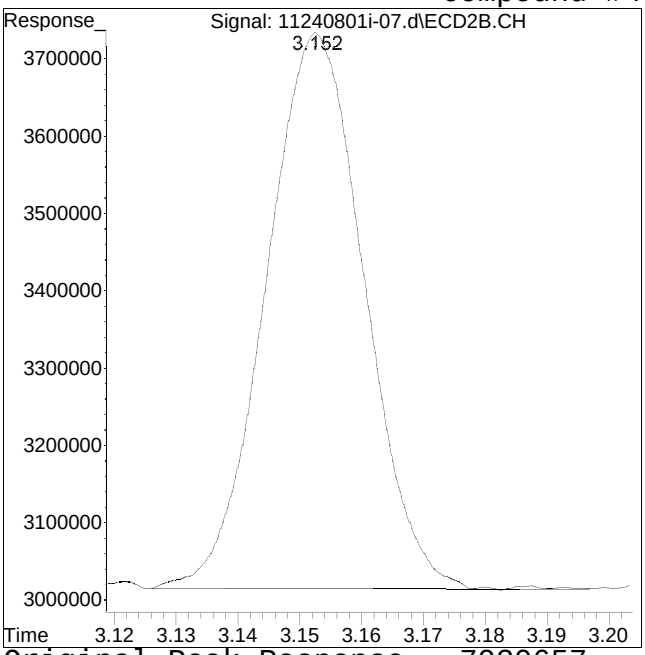
Manual Peak Response = 8846077 M4

M4 = Poor automated baseline construction.

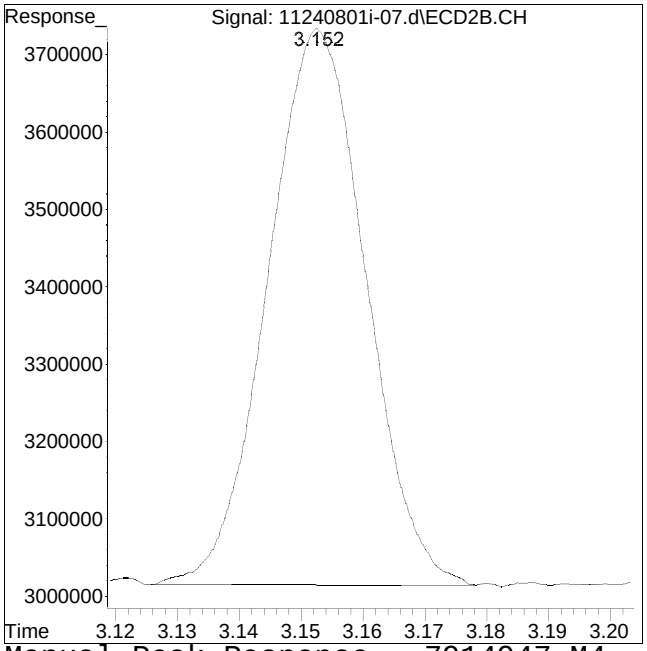
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #48: Alachlor #2



Original Peak Response = 7930657



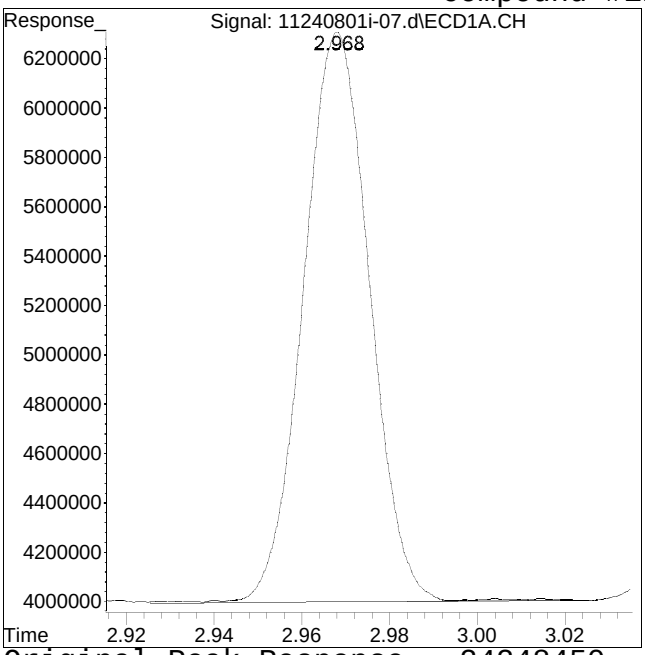
Manual Peak Response = 7914947 M4

M4 = Poor automated baseline construction.

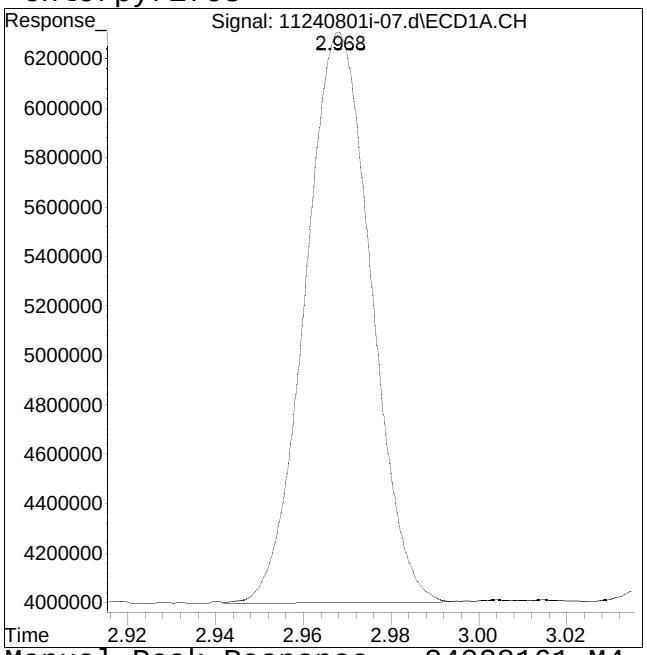
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #11: Chlorpyrifos



Original Peak Response = 24248450

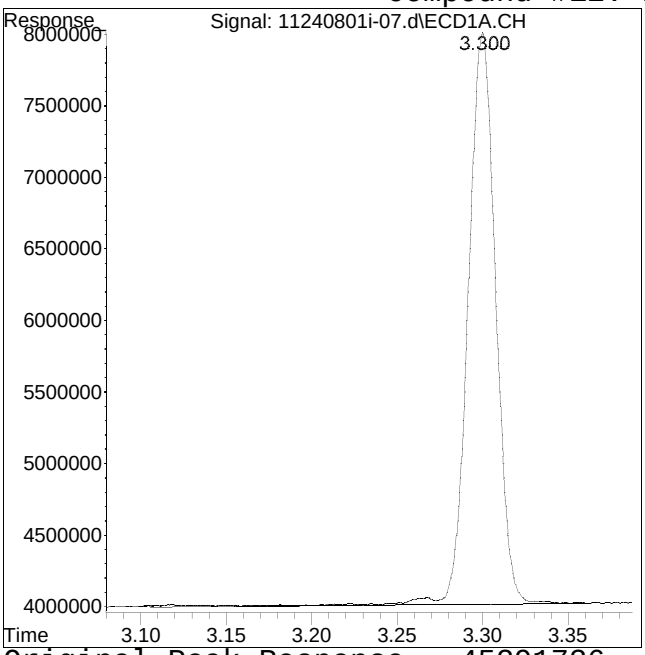


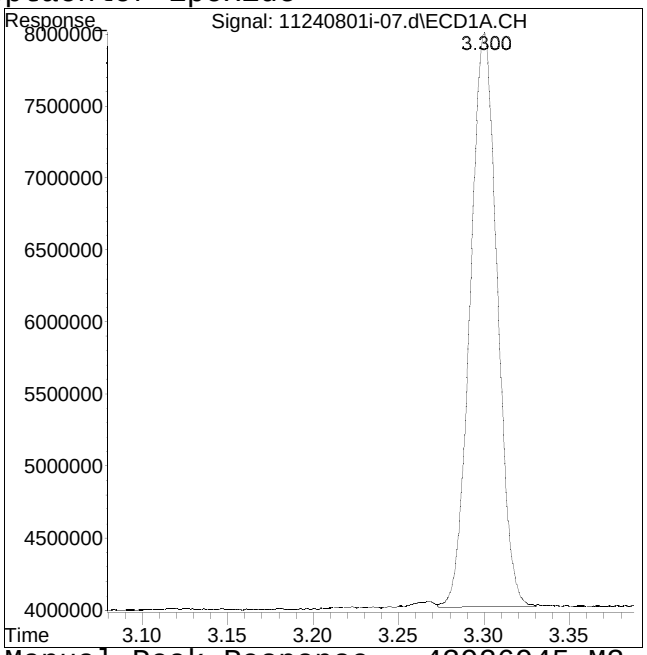
Manual Peak Response = 24028161 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #12: Heptachlor Epoxide





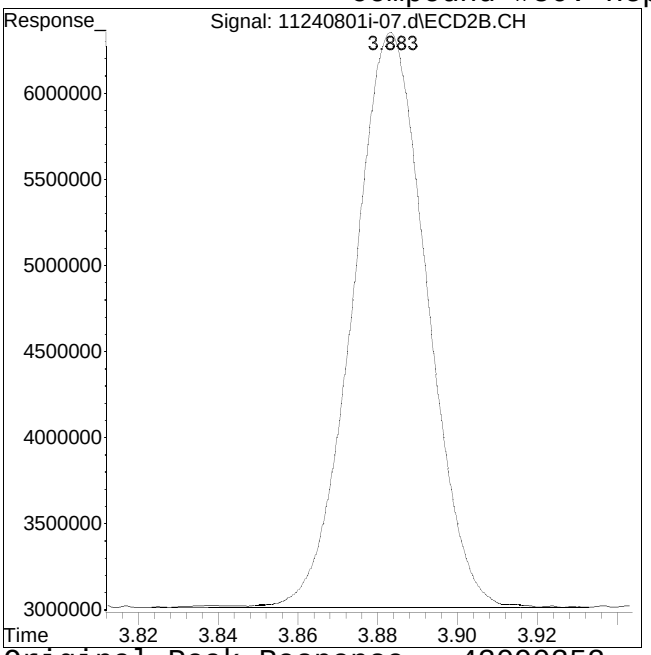
Original Peak Response = 45291736 Manual Peak Response = 43926945 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

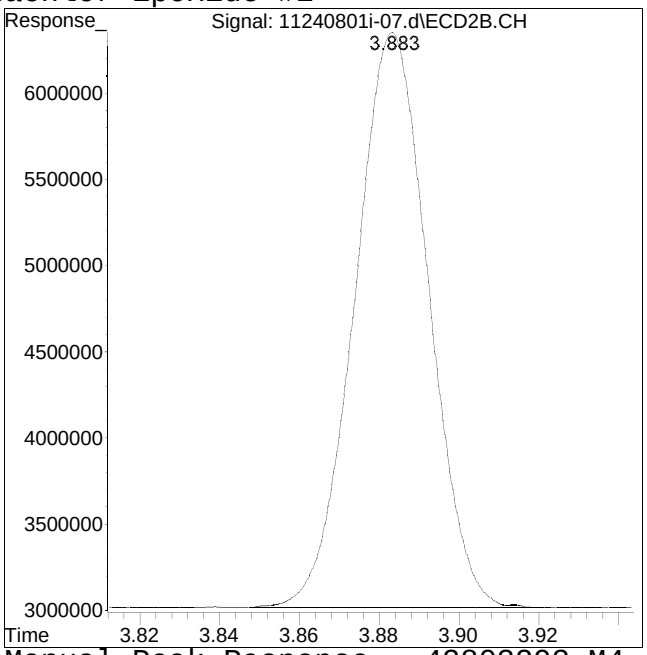
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 43090352



Manual Peak Response = 42803293 M4

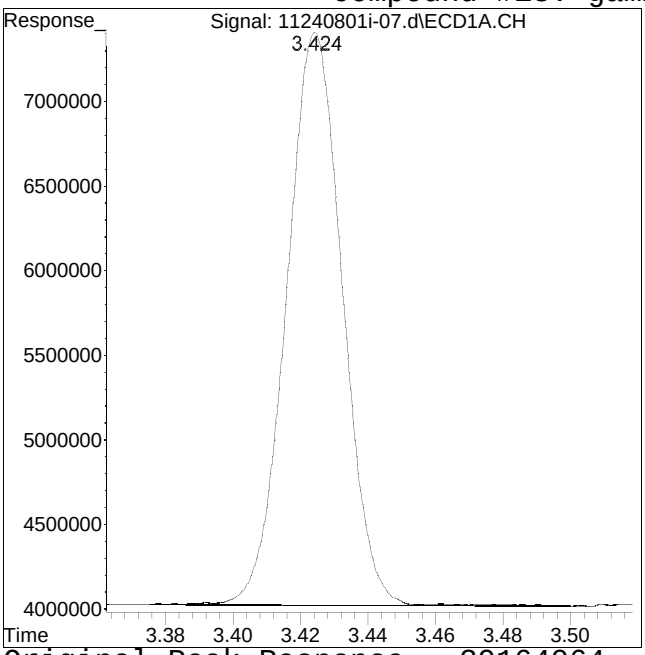
M4 = Poor automated baseline construction.

Manual Integration Report

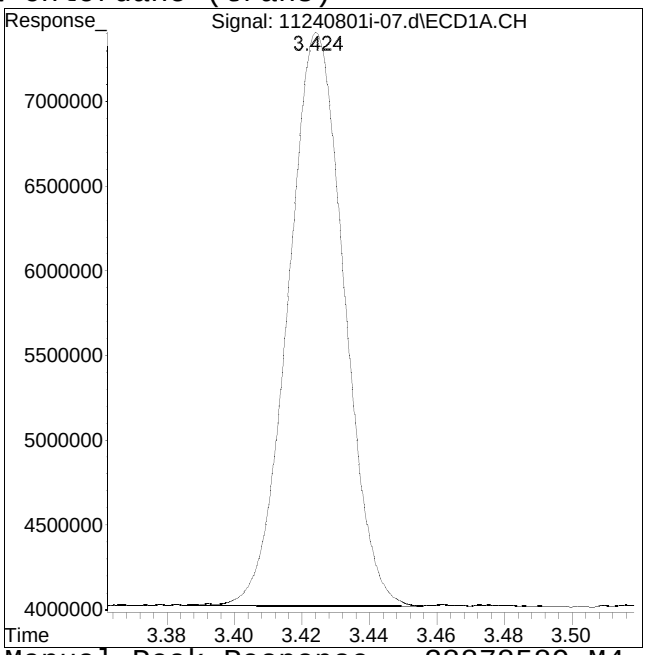
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 39164064



Manual Peak Response = 38878589 M4

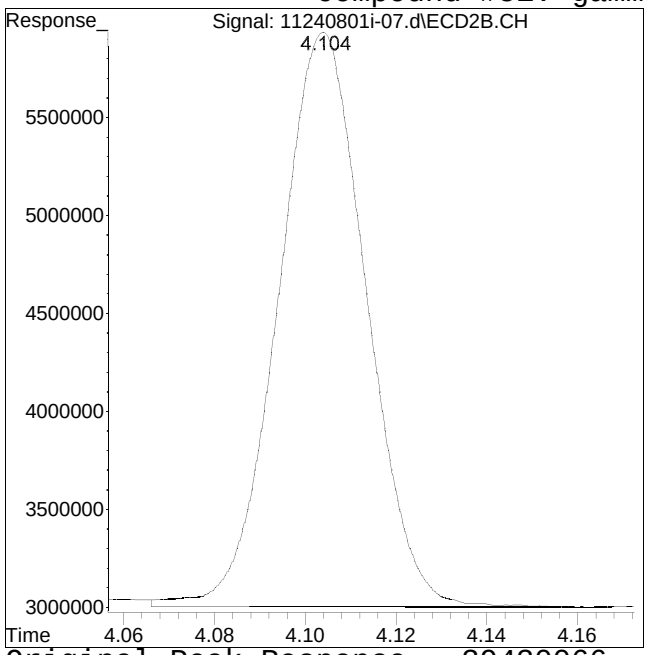
M4 = Poor automated baseline construction.

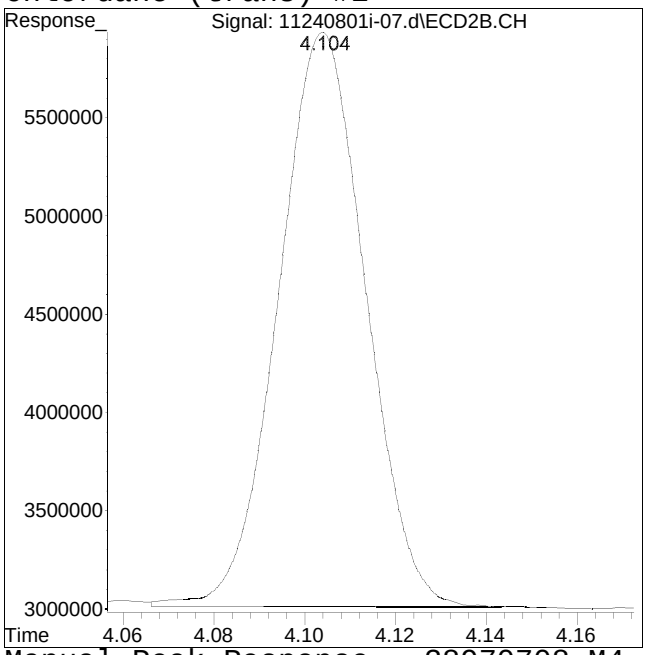
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #51: gamma-Chlordane (trans) #2



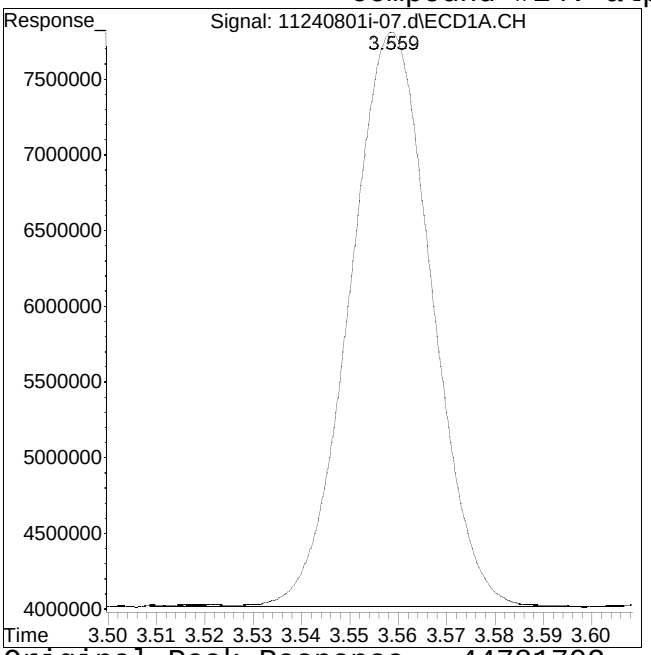


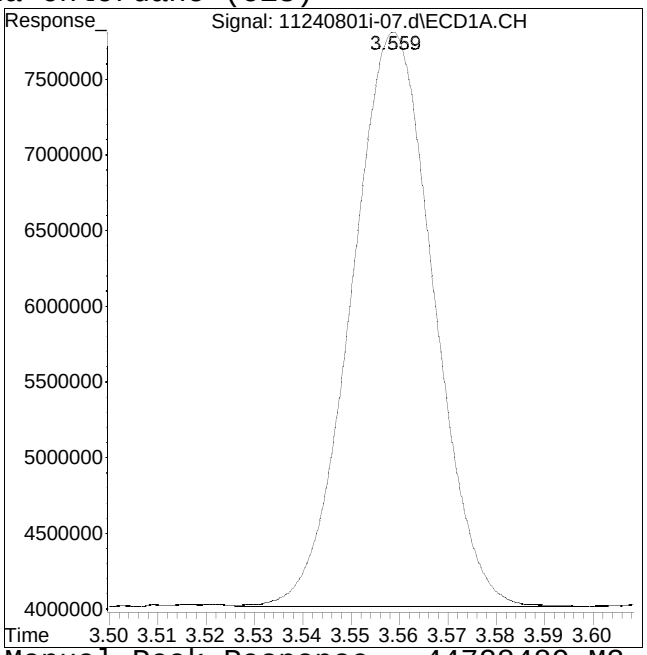
Original Peak Response = 39430066 Manual Peak Response = 38970708 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #14: alpha-Chlordane (cis)



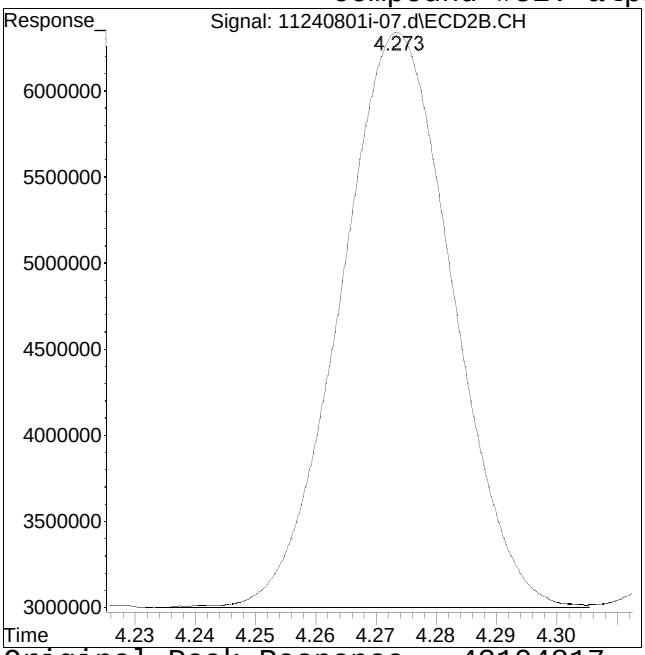


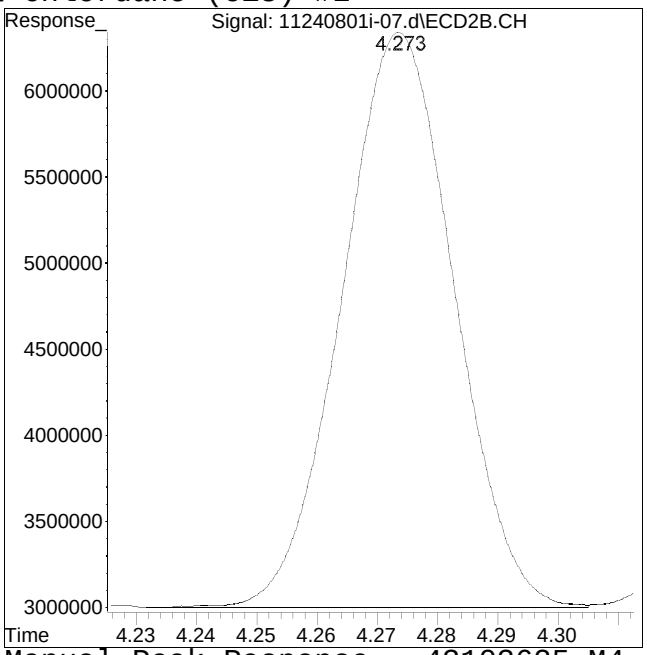
Original Peak Response = 44781792 Manual Peak Response = 44728489 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #52: alpha-Chlordane (cis) #2





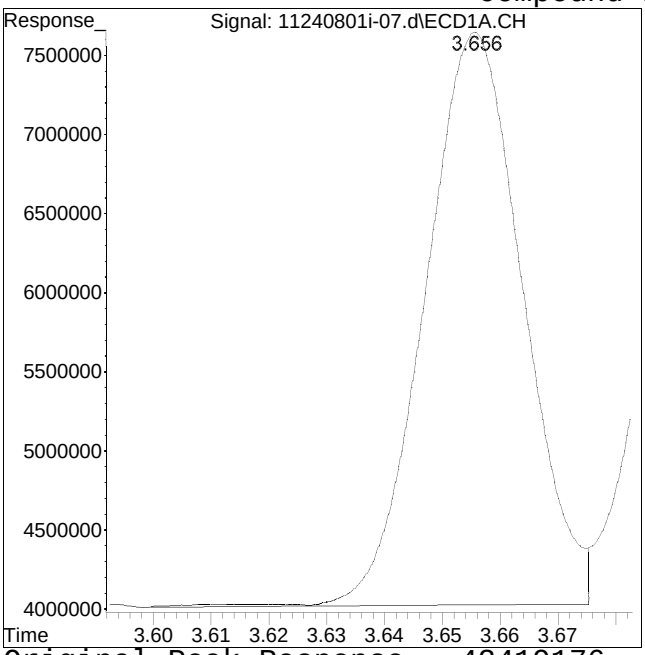
Original Peak Response = 43104817 Manual Peak Response = 43103625 M4
M4 = Poor automated baseline construction.

Manual Integration Report

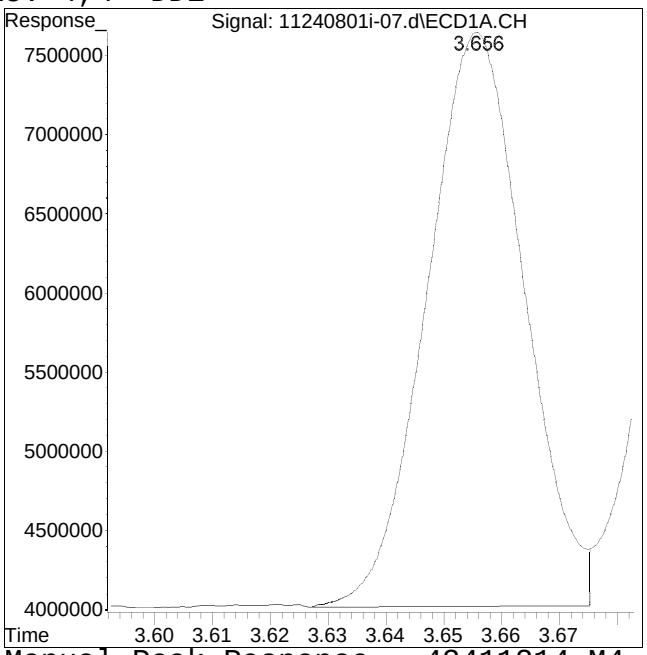
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #15: 4,4'-DDE



Original Peak Response = 42419176



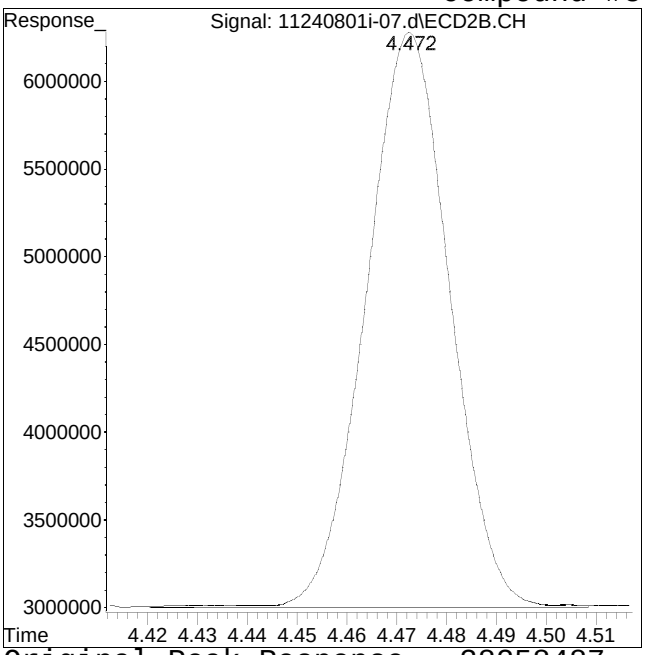
Manual Peak Response = 42411214 M4

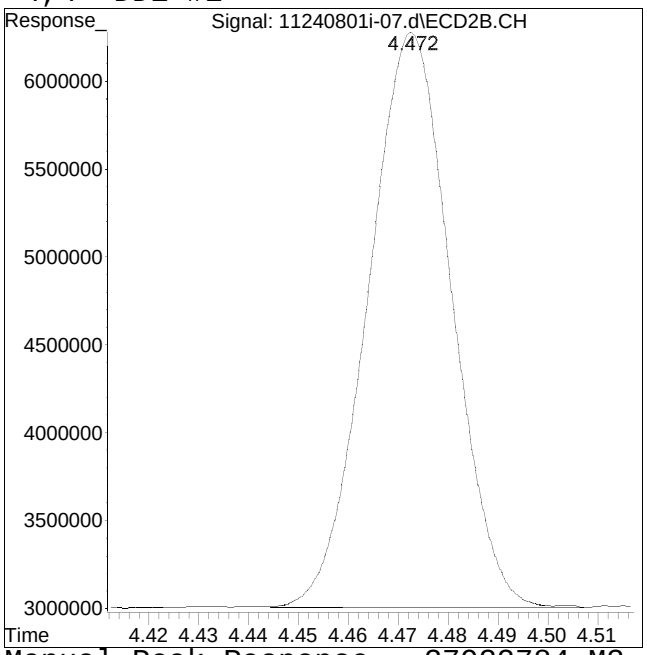
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #53: 4,4'-DDE #2



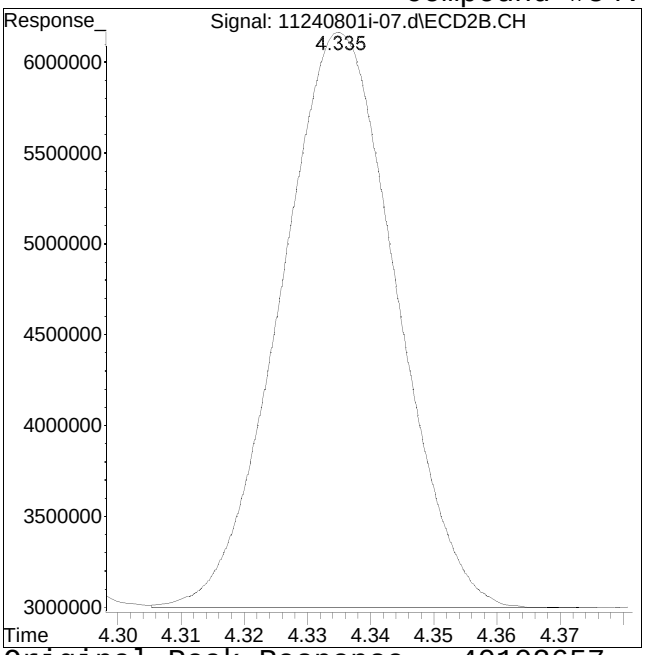


Original Peak Response = 38258487 Manual Peak Response = 37932784 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

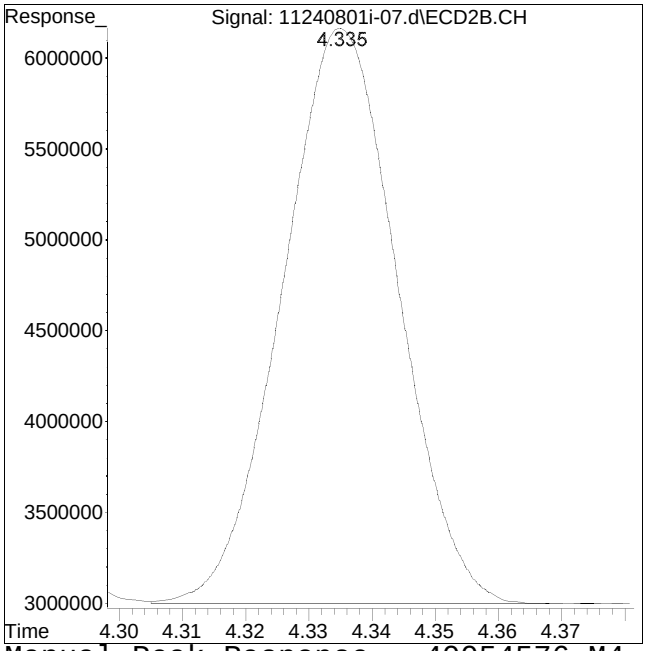
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #54: Endosulfan I #2



Original Peak Response = 40102657



Manual Peak Response = 40054576 M4

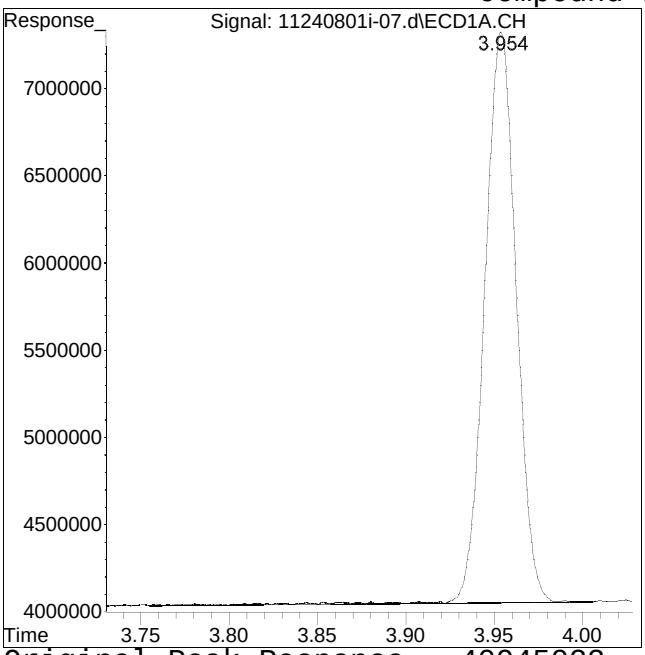
M4 = Poor automated baseline construction.

Manual Integration Report

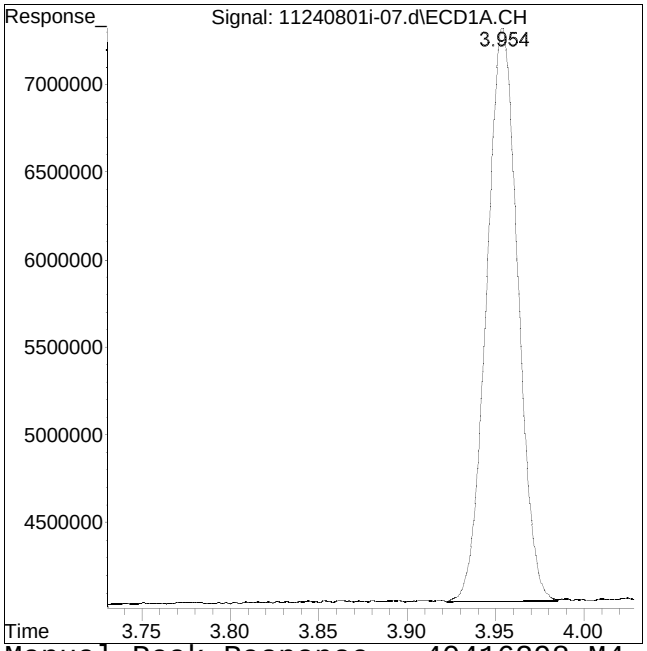
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #17: Dieldrin



Original Peak Response = 40945022



Manual Peak Response = 40416298 M4

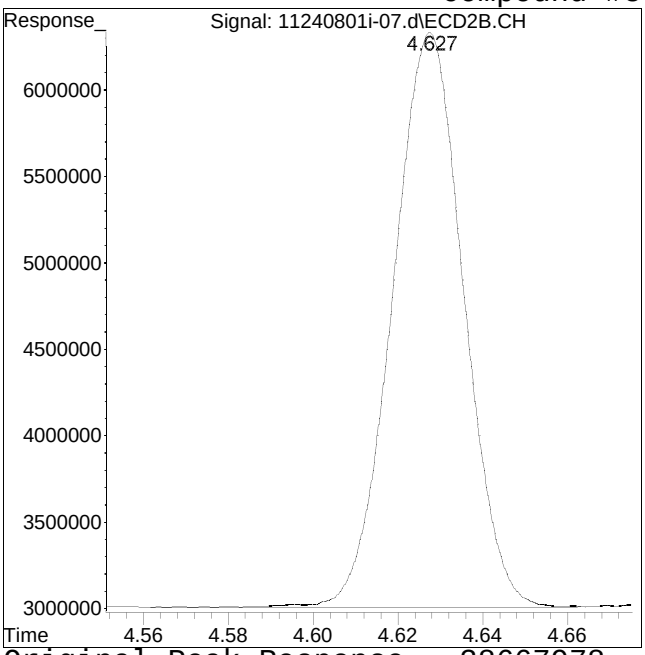
M4 = Poor automated baseline construction.

Manual Integration Report

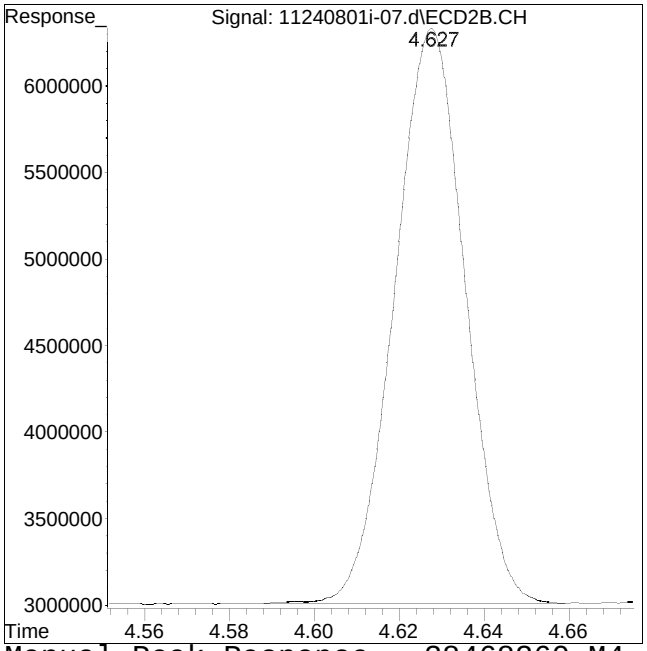
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #55: Dieldrin #2



Original Peak Response = 38667978



Manual Peak Response = 38468360 M4

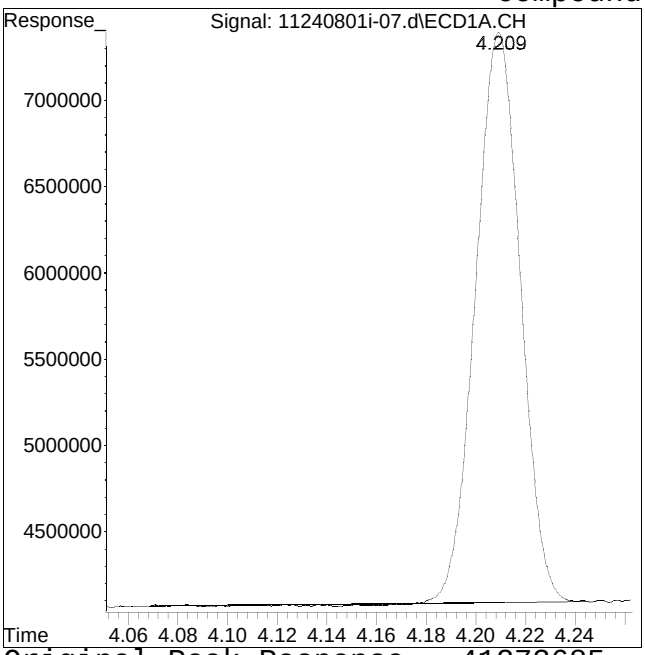
M4 = Poor automated baseline construction.

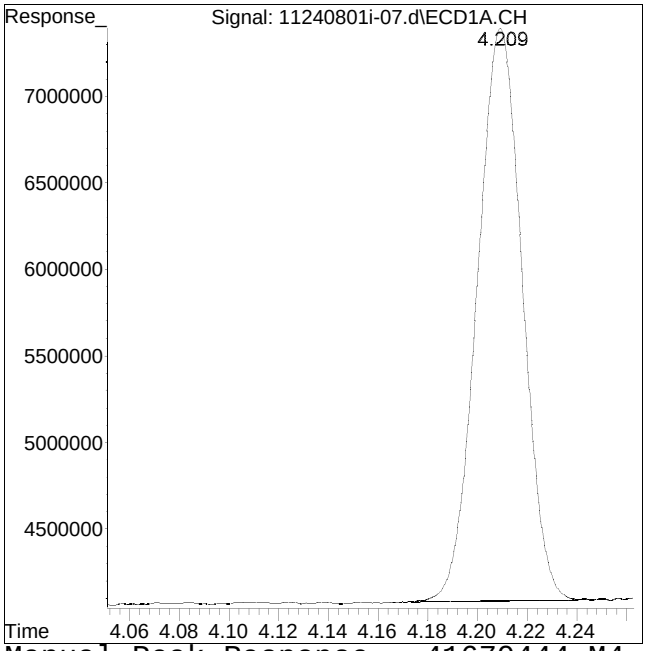
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #18: Endrin



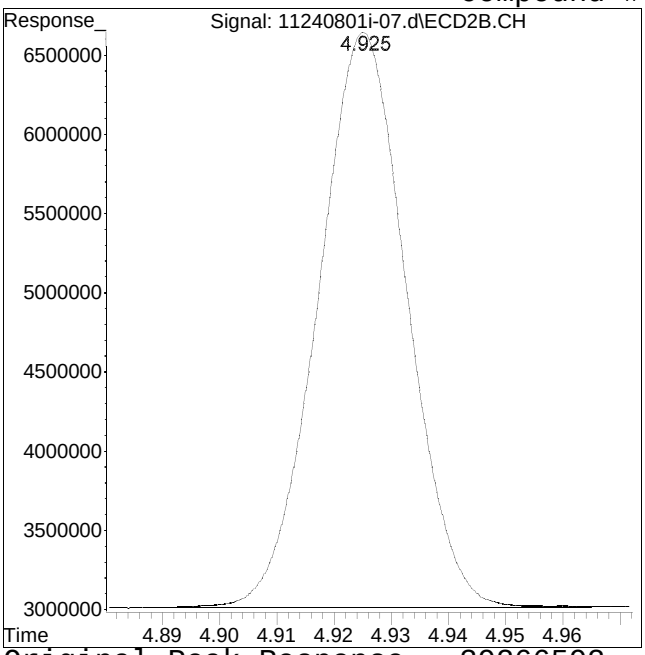


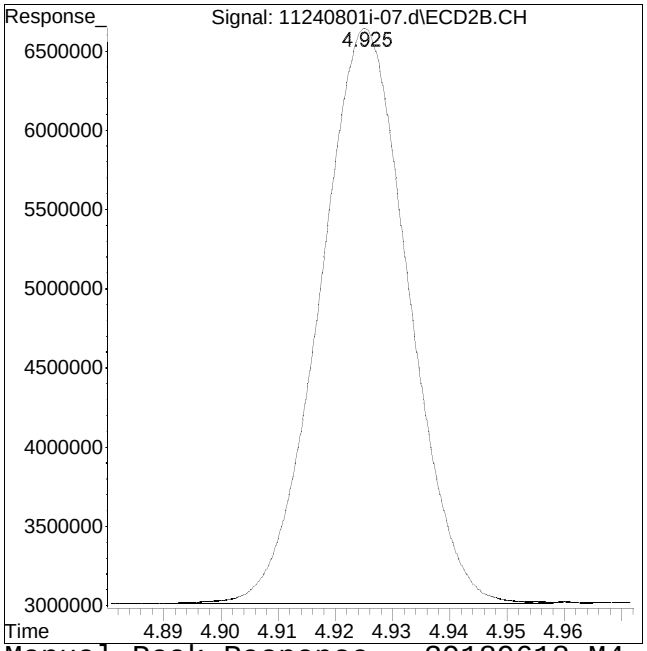
Original Peak Response = 41273685 Manual Peak Response = 41670444 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #56: Endrin #2



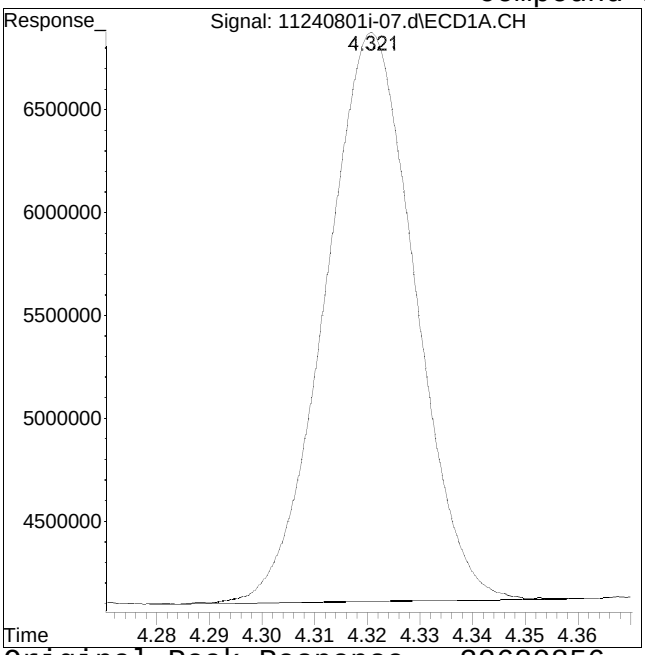


Original Peak Response = 39266592 Manual Peak Response = 39189618 M4
M4 = Poor automated baseline construction.

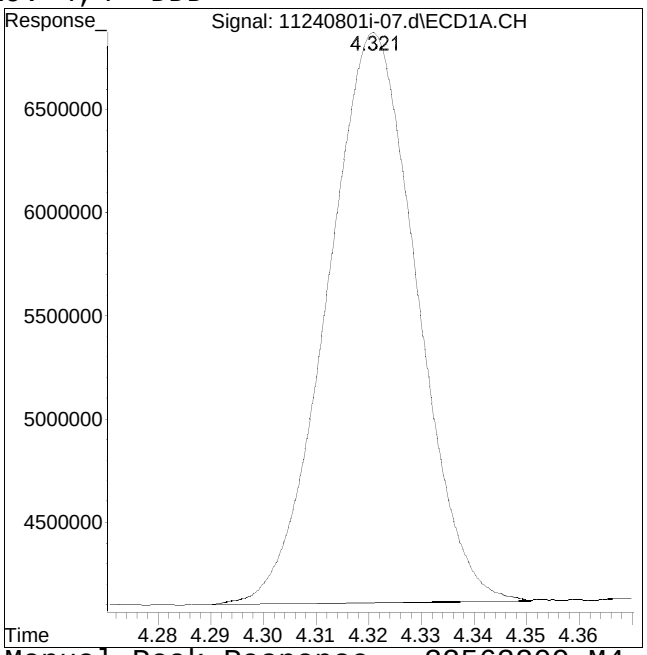
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #19: 4,4'-DDD



Original Peak Response = 32620856



Manual Peak Response = 32563209 M4

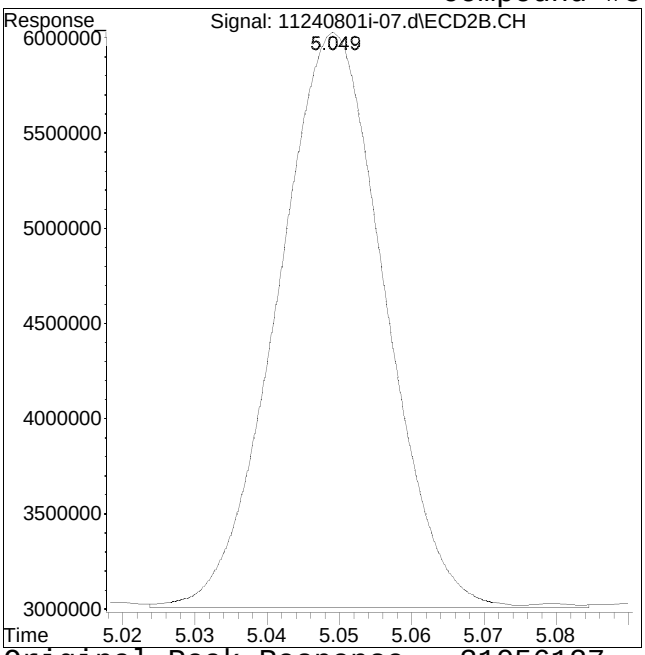
M4 = Poor automated baseline construction.

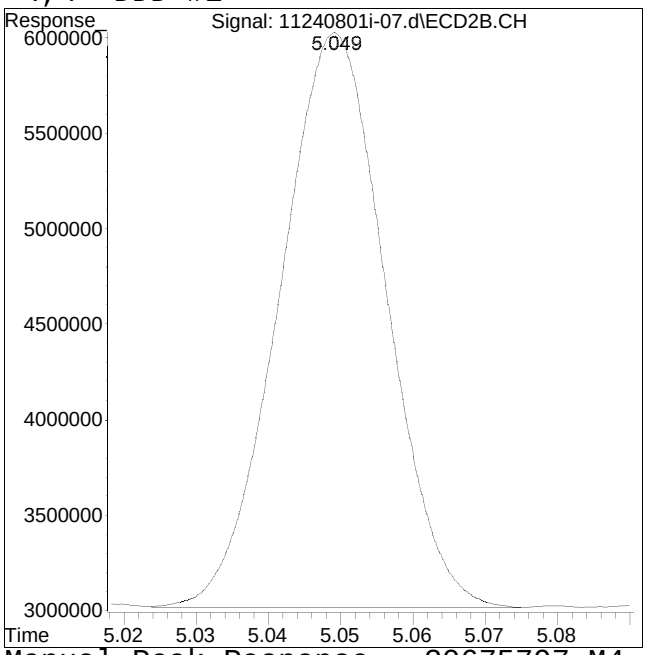
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #57: 4,4'-DDD #2





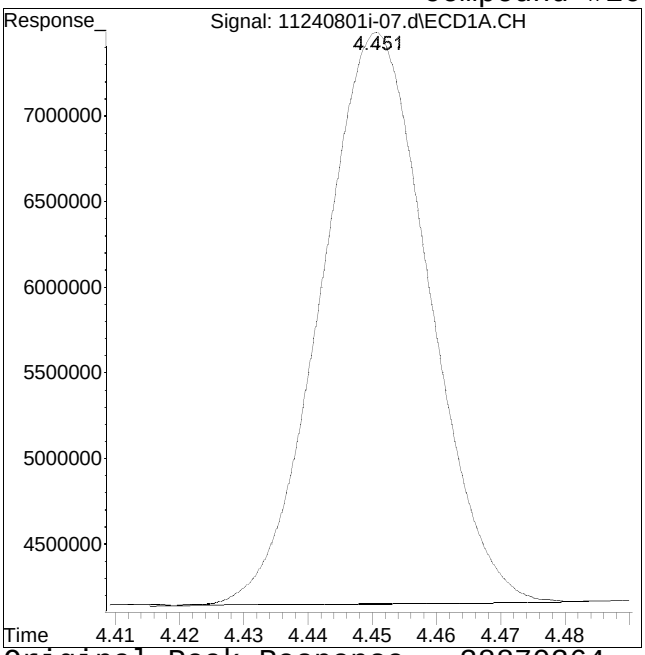
Original Peak Response = 31056127 Manual Peak Response = 30675797 M4
M4 = Poor automated baseline construction.

Manual Integration Report

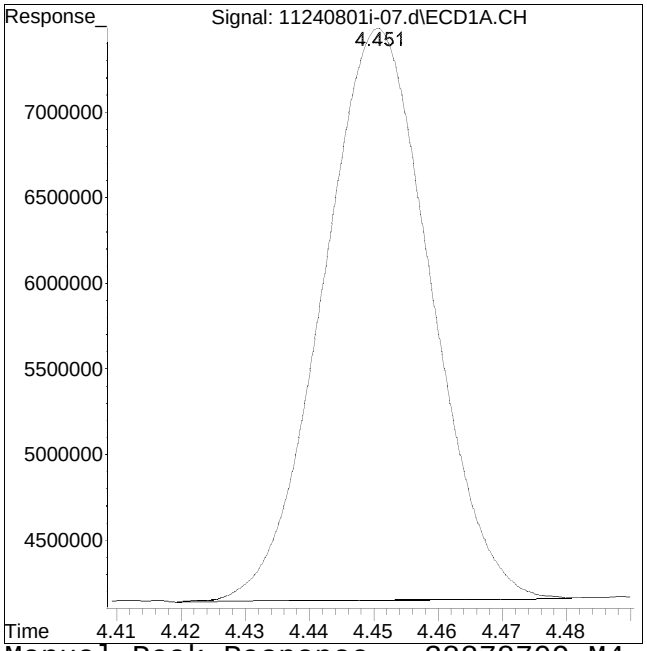
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #20: Endosulfan II



Original Peak Response = 38870364



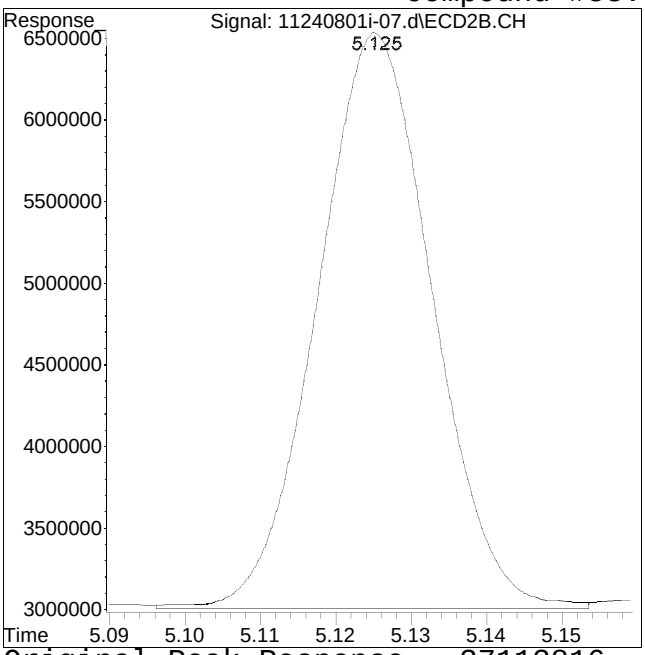
Manual Peak Response = 38878709 M4

M4 = Poor automated baseline construction.

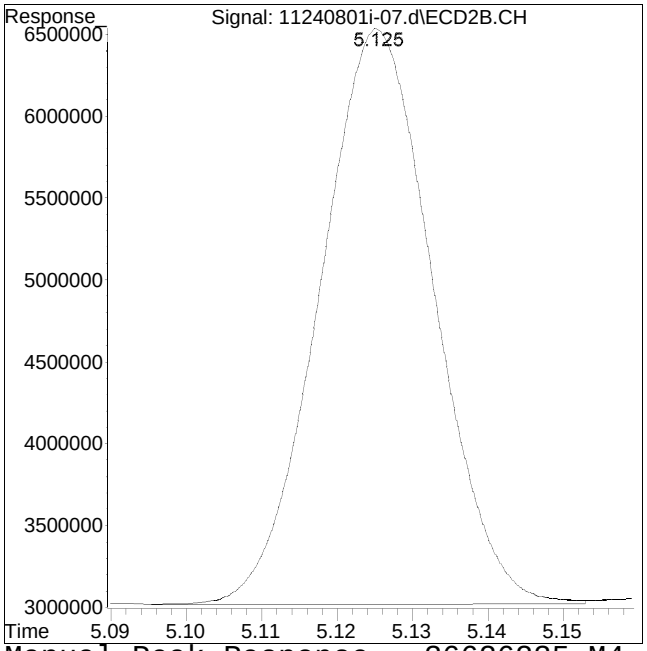
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #58: Endosulfan II #2



Original Peak Response = 37113816



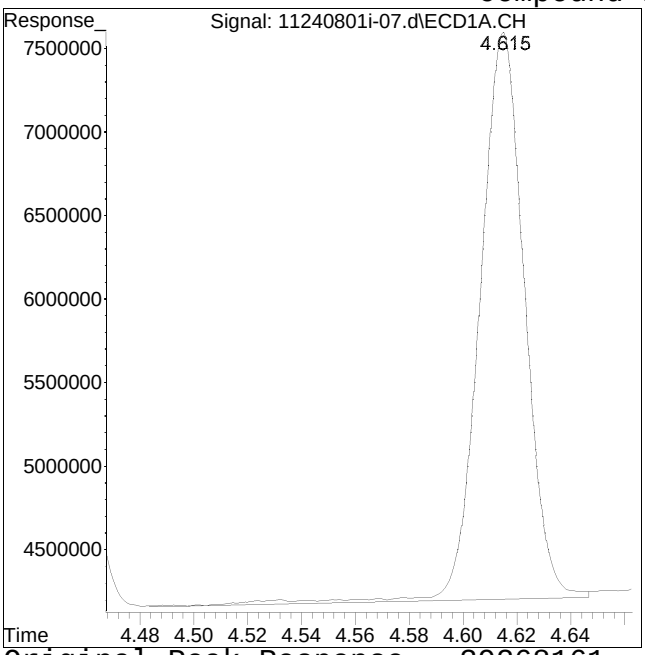
Manual Peak Response = 36626235 M4
M4 = Poor automated baseline construction.

Manual Integration Report

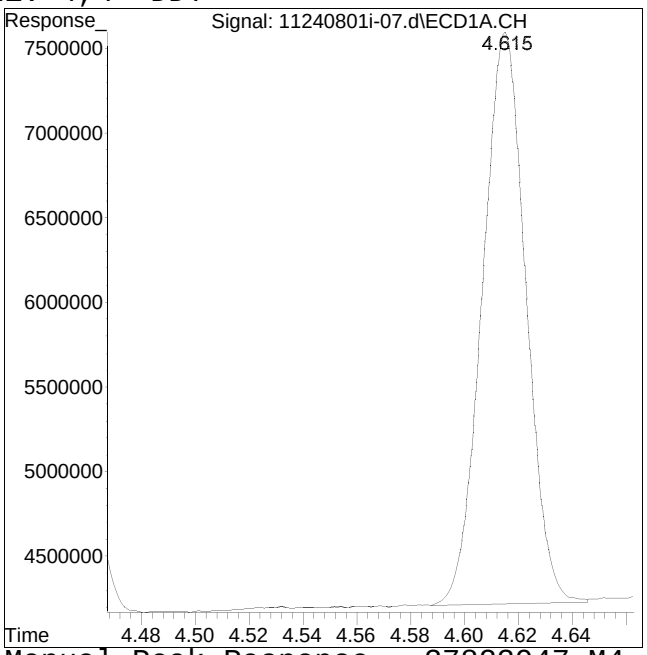
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #21: 4,4'-DDT



Original Peak Response = 39268161



Manual Peak Response = 37823947 M4

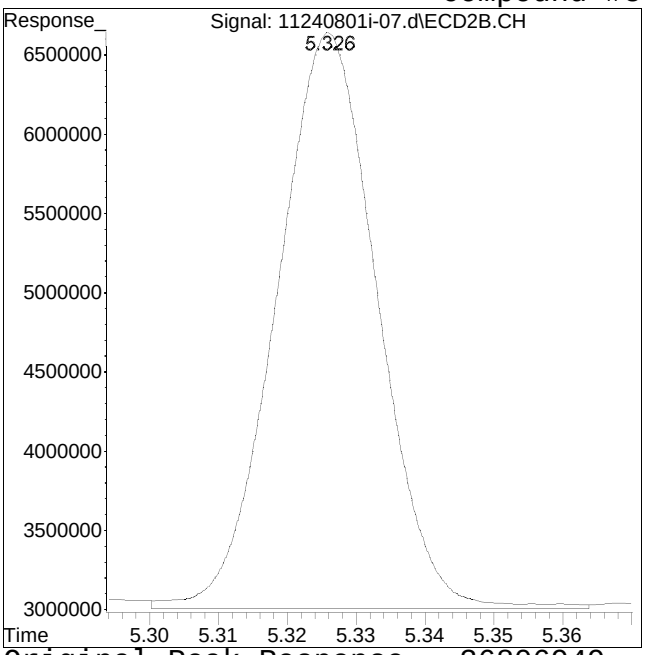
M4 = Poor automated baseline construction.

Manual Integration Report

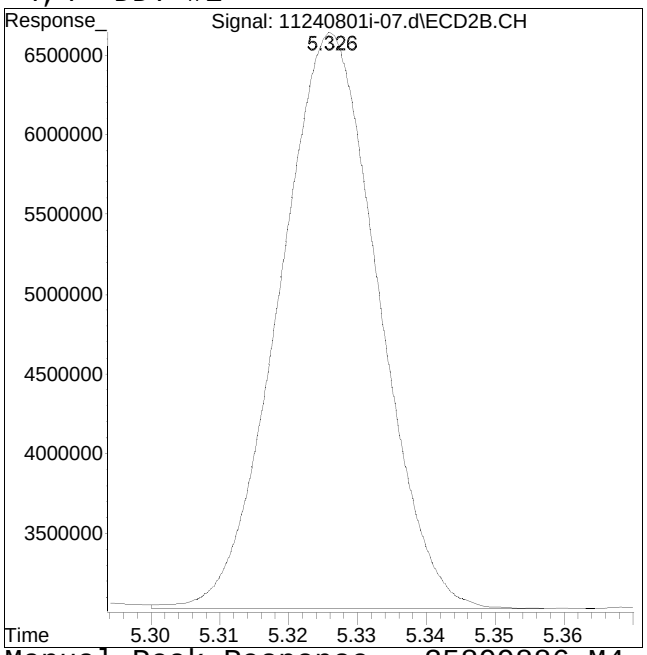
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 36806949



Manual Peak Response = 35899886 M4

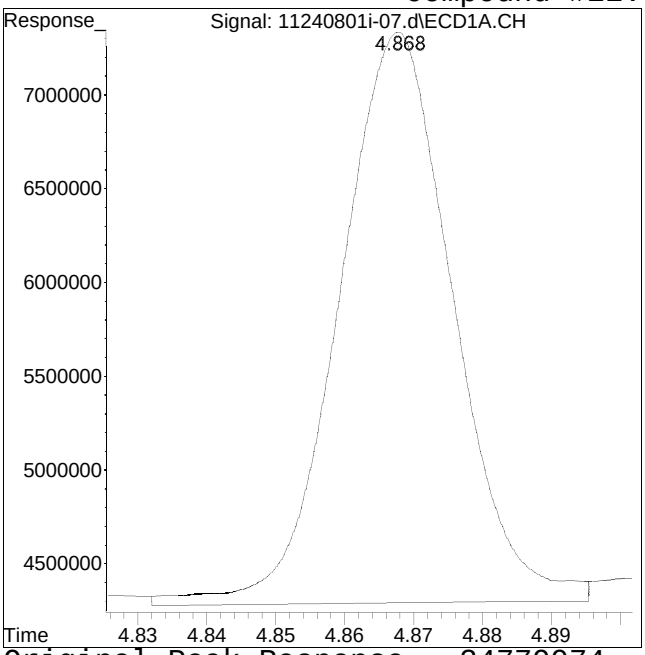
M4 = Poor automated baseline construction.

Manual Integration Report

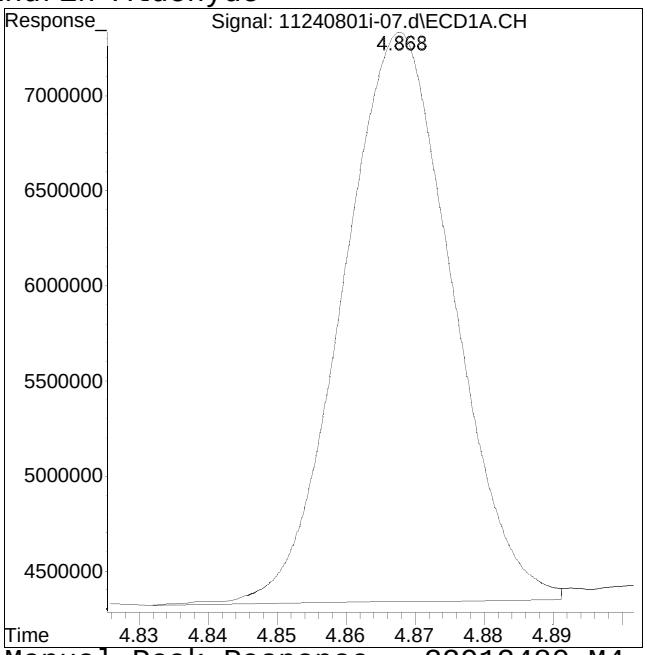
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #22: Endrin Aldehyde



Original Peak Response = 34779974



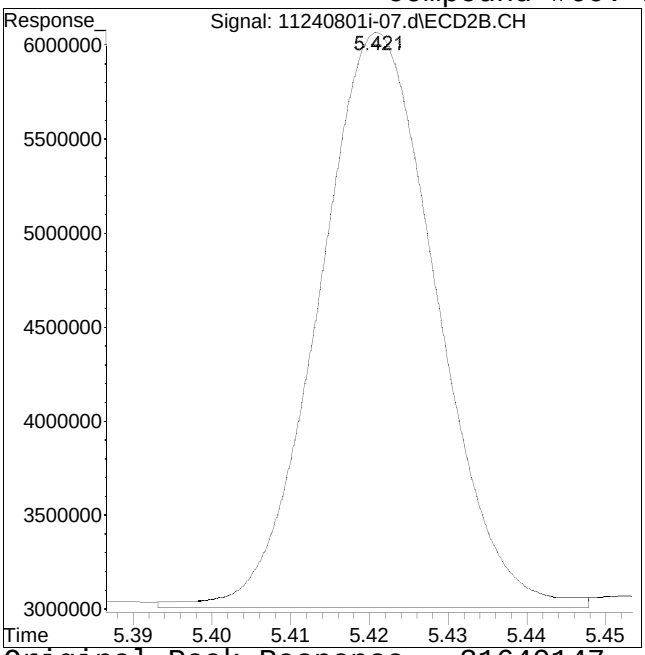
Manual Peak Response = 32912480 M4

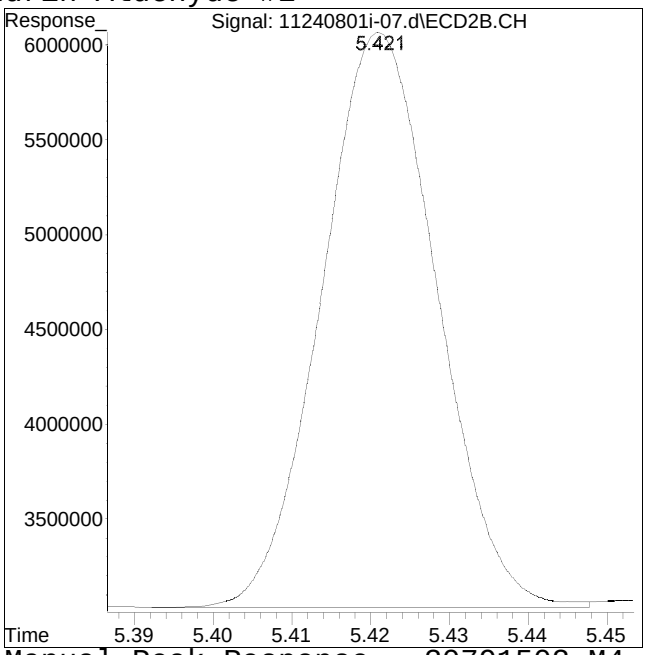
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #60: Endrin Aldehyde #2



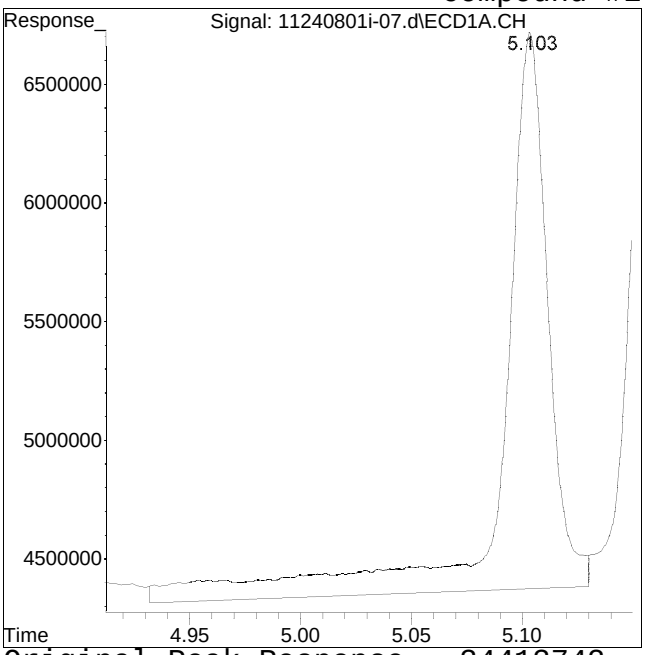


Original Peak Response = 31640147 Manual Peak Response = 30791502 M4
M4 = Poor automated baseline construction.

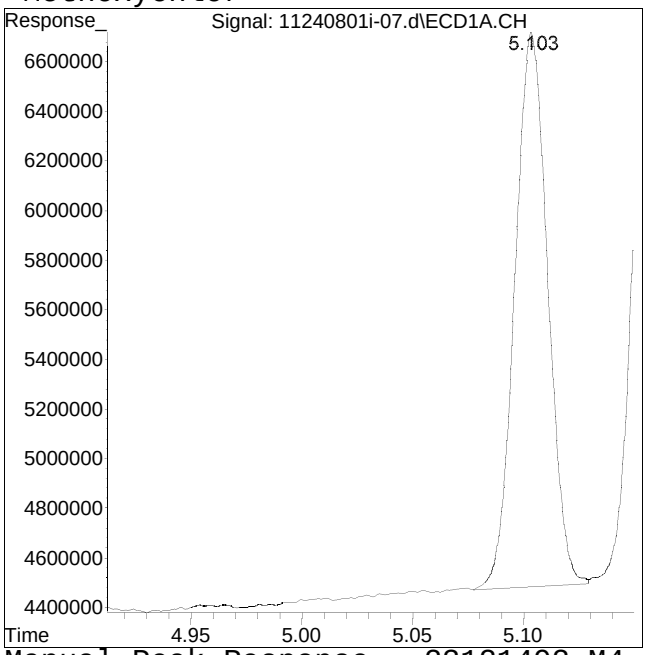
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0 Quant Date : 8/2/2024 10:53 am

Compound #23: Methoxychlor



Original Peak Response = 34413742



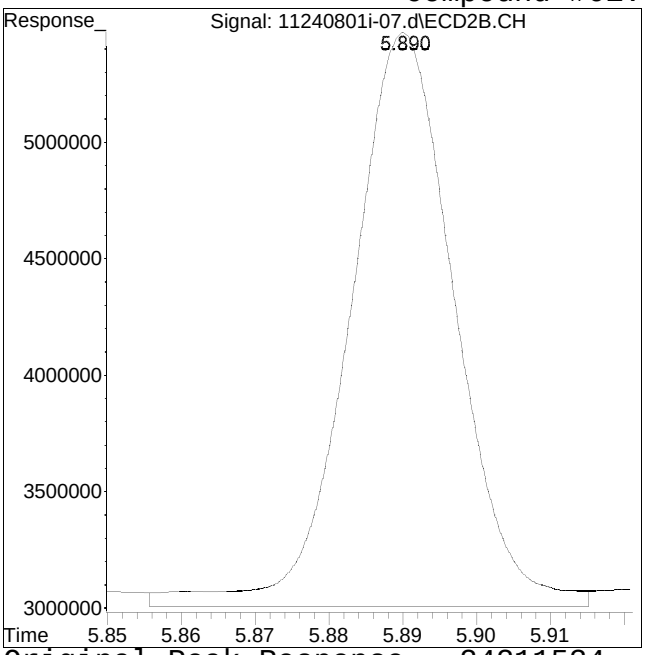
Manual Peak Response = 23121492 M4

M4 = Poor automated baseline construction.

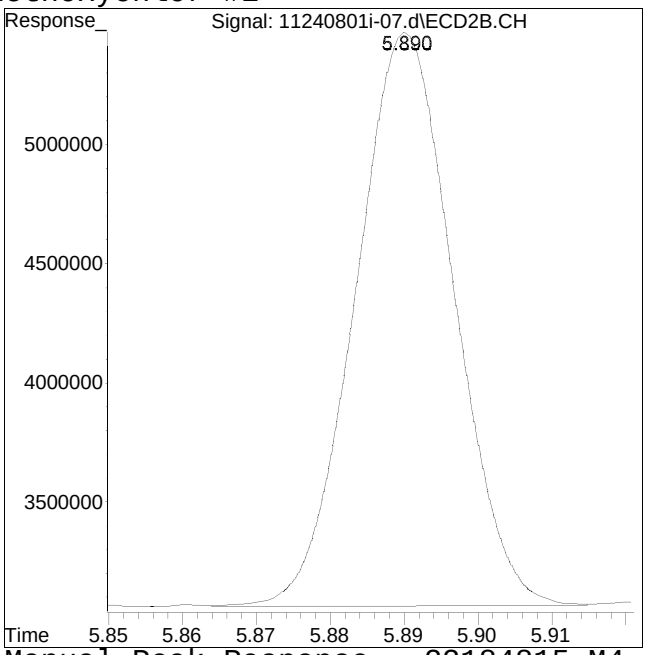
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #61: Methoxychlor #2



Original Peak Response = 24211534

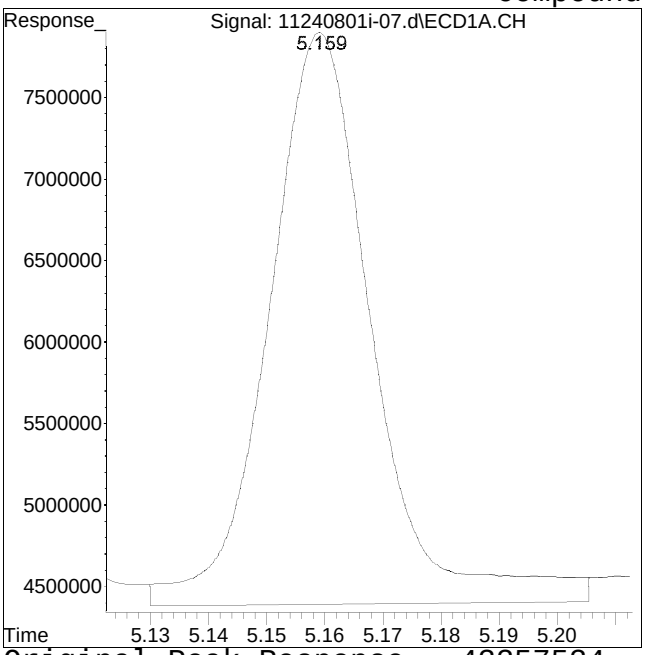


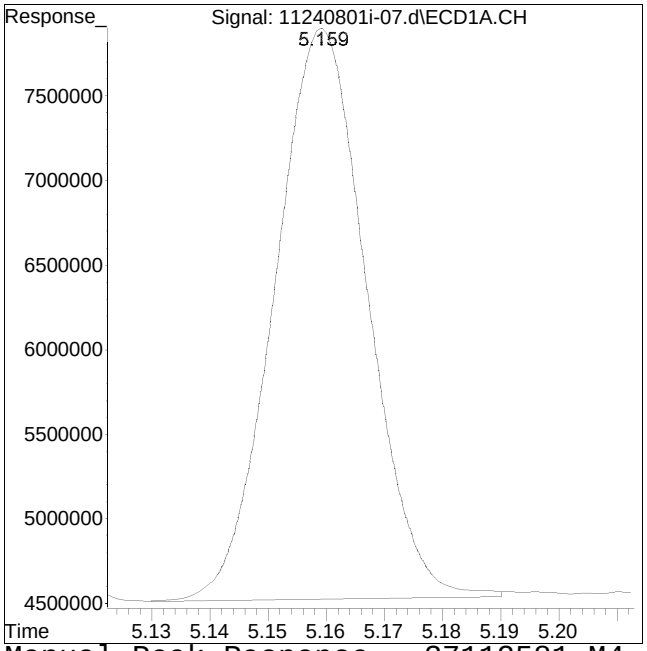
Manual Peak Response = 22184815 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #24: Mirex





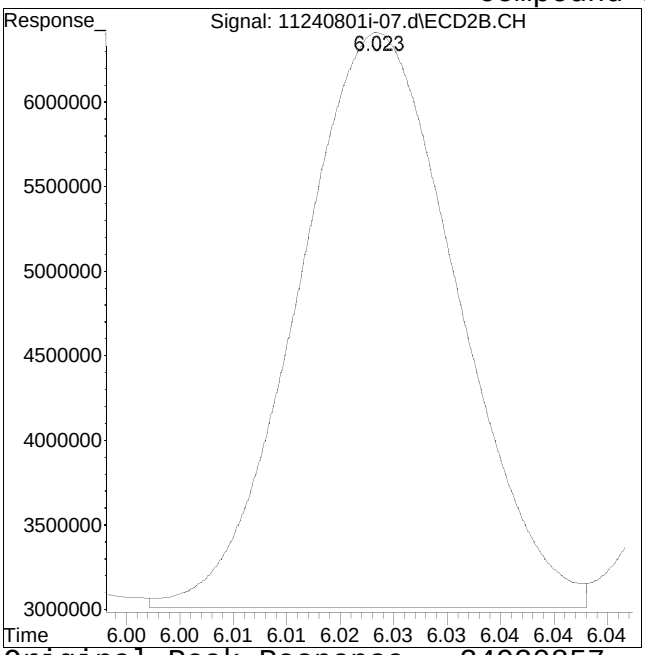
Original Peak Response = 43357534 Manual Peak Response = 37112581 M4
M4 = Poor automated baseline construction.

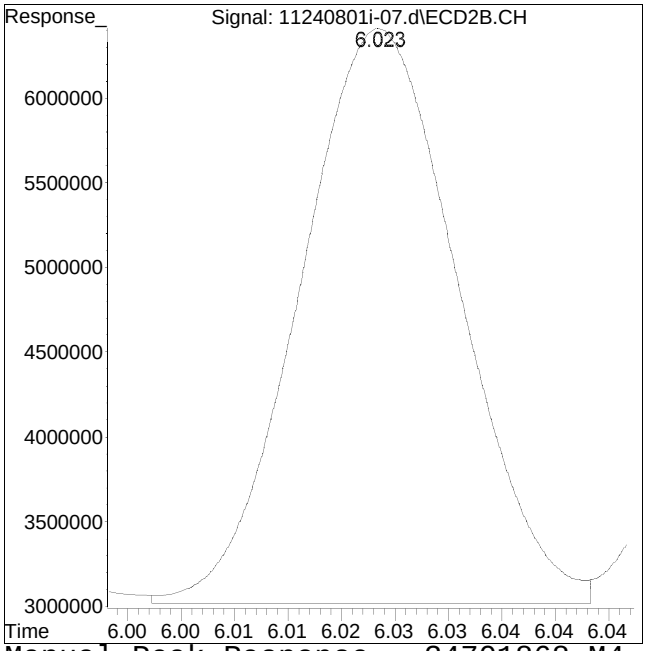
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #62: Mirex #2



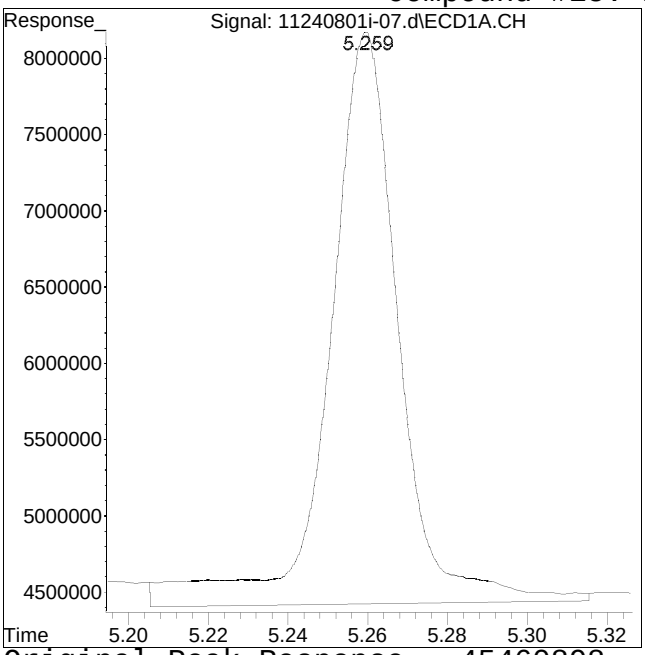


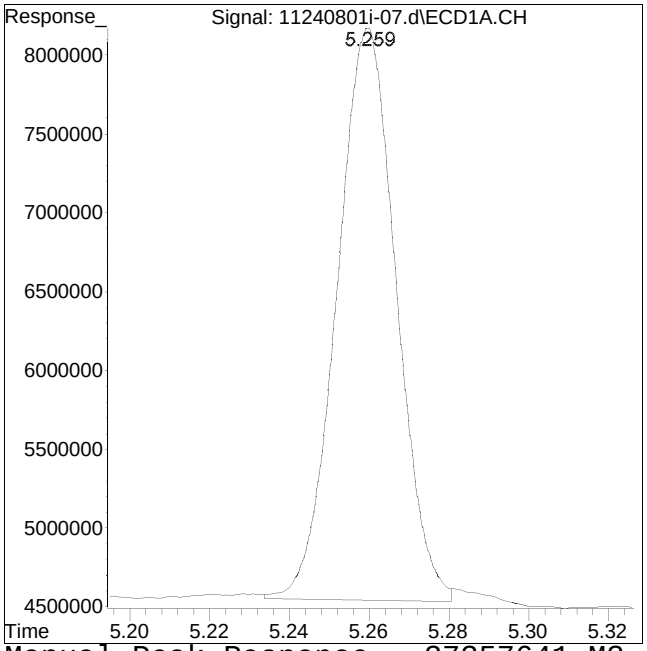
Original Peak Response = 34930857 Manual Peak Response = 34701868 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #25: Endosulfan Sulfate



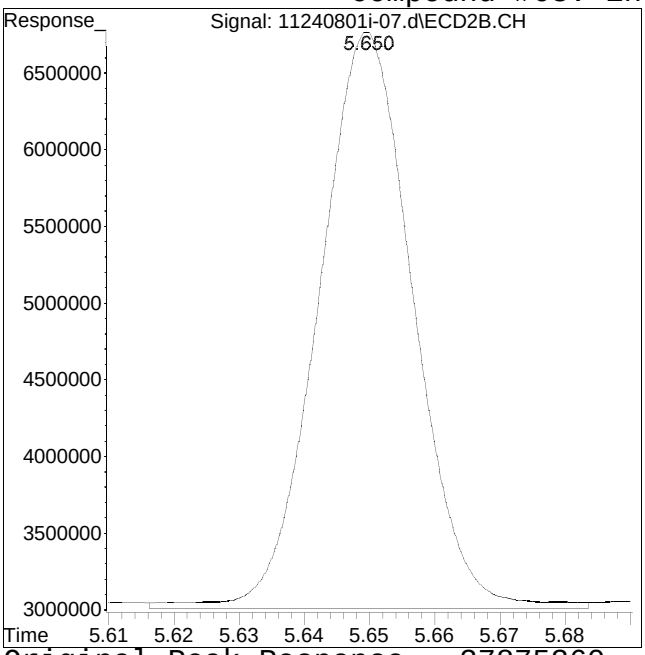


Original Peak Response = 45460898 Manual Peak Response = 37357641 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

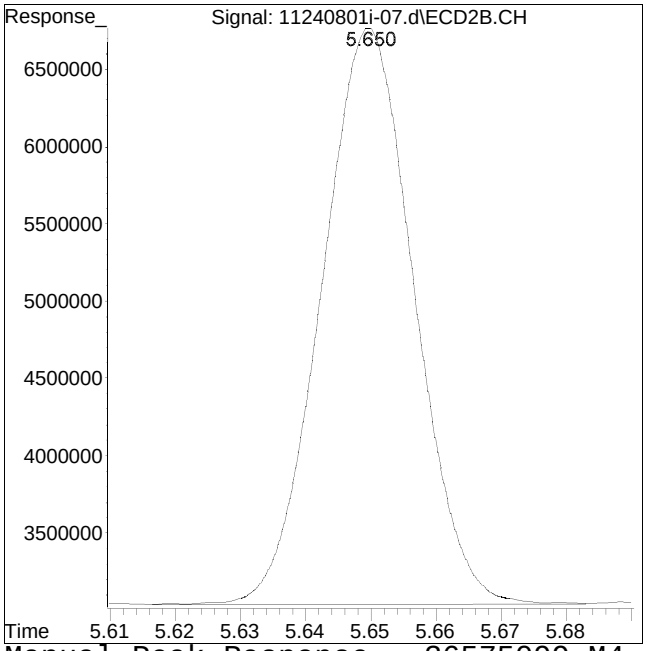
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 37875360



Manual Peak Response = 36575099 M4

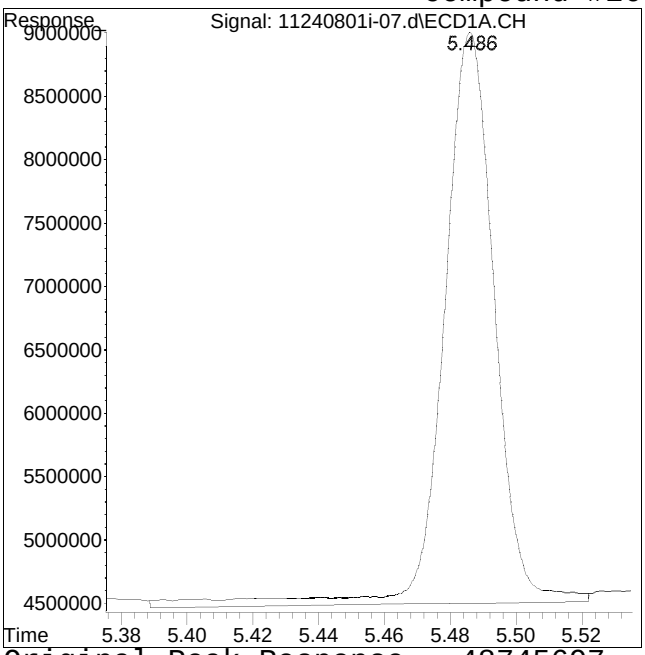
M4 = Poor automated baseline construction.

Manual Integration Report

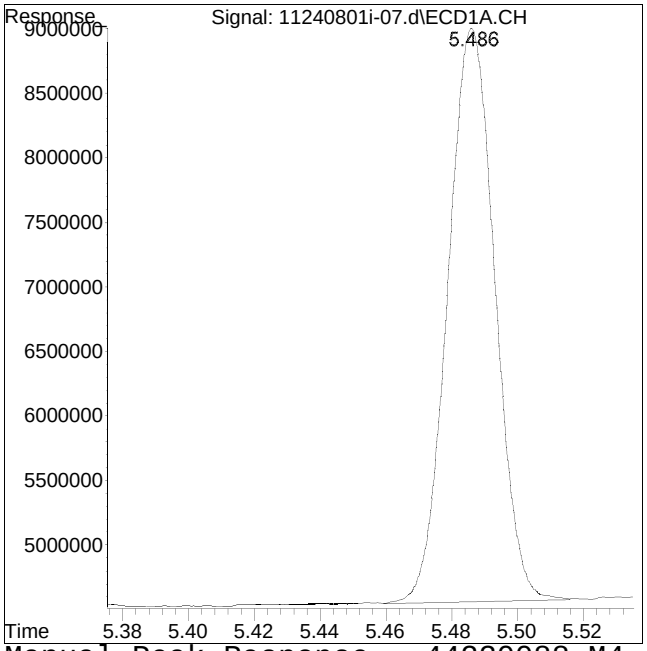
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #26: Endrin Ketone



Original Peak Response = 48745697



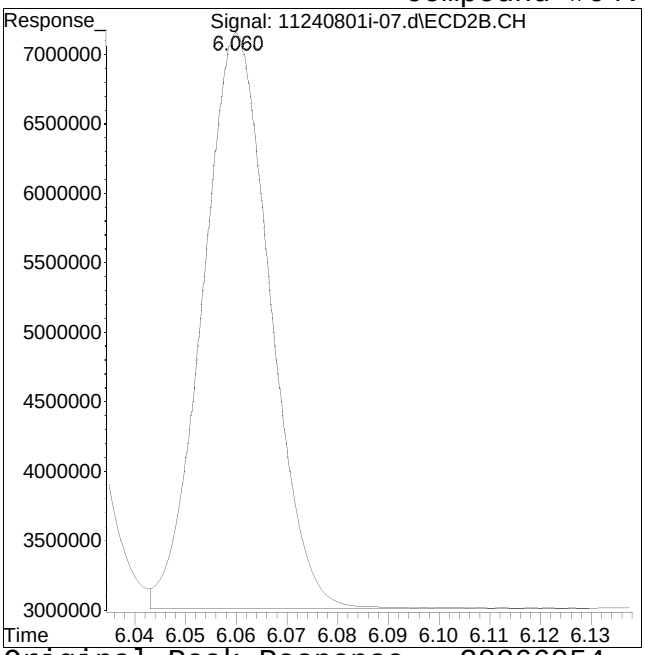
Manual Peak Response = 44230088 M4

M4 = Poor automated baseline construction.

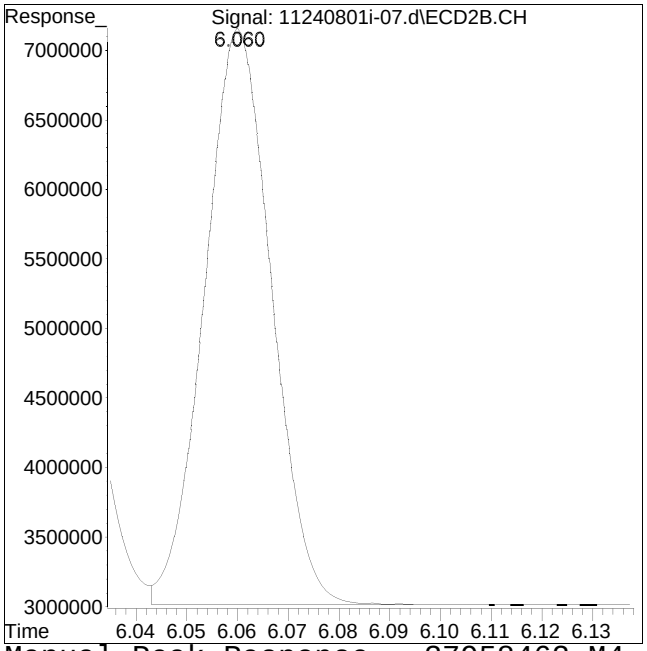
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #64: Endrin Ketone #2



Original Peak Response = 38366954



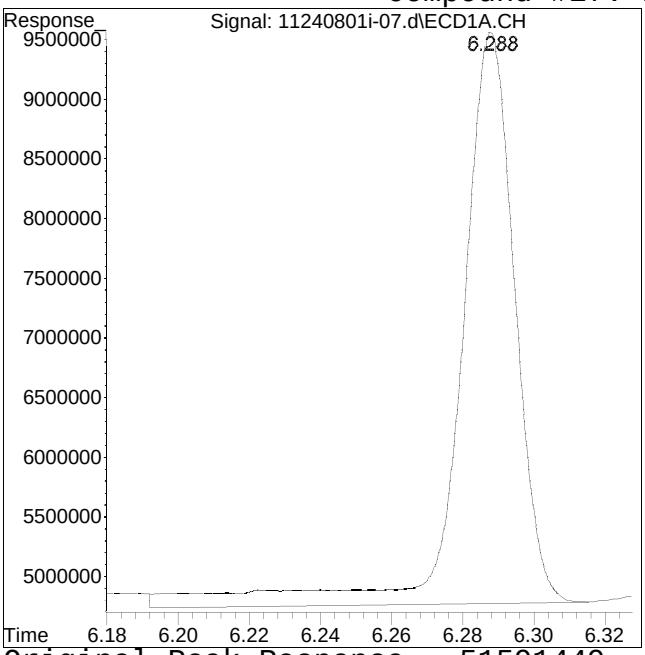
Manual Peak Response = 37958462 M4

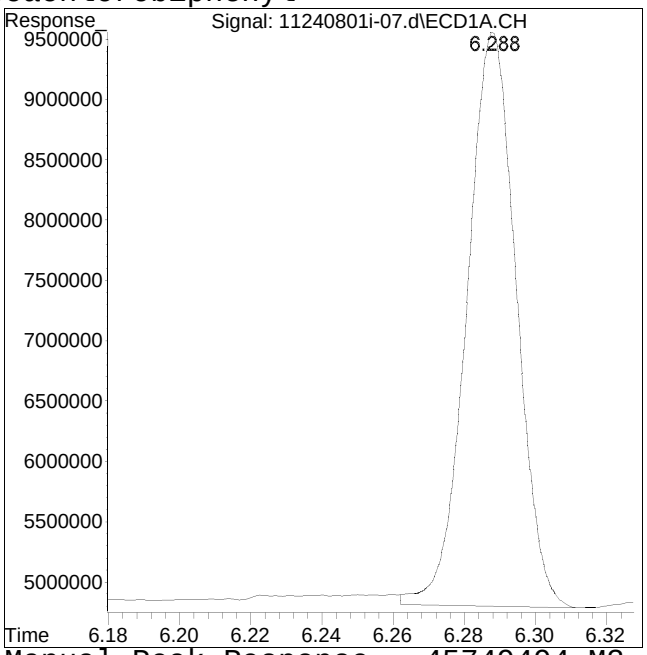
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #27: Decachlorobiphenyl



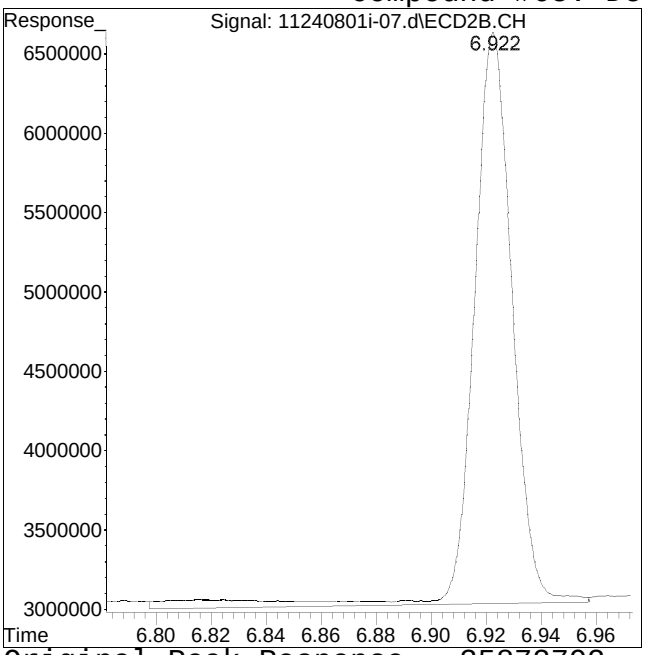


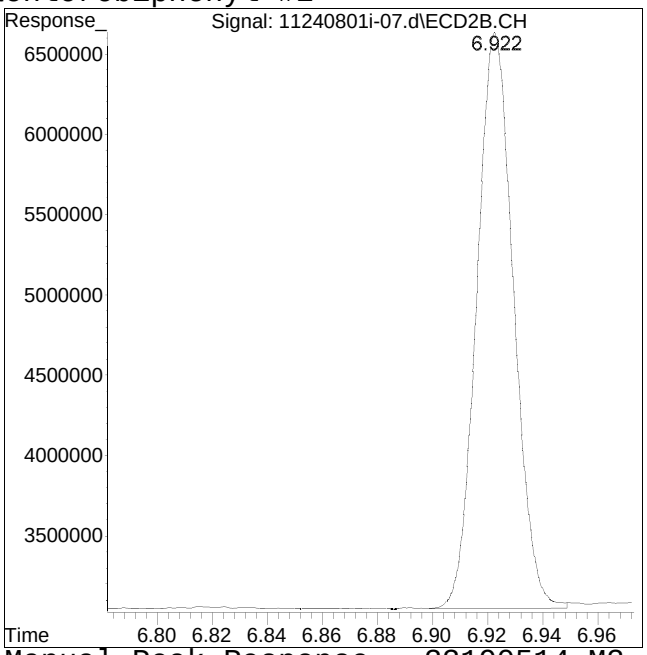
Original Peak Response = 51591449 Manual Peak Response = 45749494 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 35872792 Manual Peak Response = 33190514 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:37
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:46:08 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:46:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	230.2E6	183.2E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	94692243	79326112	10.009M3	10.112M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		20.02%#	20.22%#
27) s	Decachlorobi	6.288	6.926	105.6E6	76218538	11.126M4	11.124M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		22.25%#	22.25%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.178	128.7E6	87741303	10.612M3	10.546M4
4) t	alpha-BHC	1.963	2.271	131.5E6	113.4E6	8.927M4	8.964M4
5) t	gamma-BHC (l	2.165	2.556	124.7E6	105.7E6	9.208M4	9.281M4
6) t	beta-BHC	2.221	2.622	57666588	50690449	10.408M4	10.925M4
7) t	delta-BHC	2.349	2.889	123.1E6	105.8E6	8.948M4	9.082M4
8) t	Heptachlor	2.513	2.952	121.4E6	113.2E6	9.955M3	10.142M4
9) t	Aldrin	2.756	3.271	111.0E6	100.2E6	9.353M3	9.490
10) t	Alachlor	2.876	3.153	21898451	17688763	11.052M3	13.104M4
11) t	Chlorpyrifos	2.968	3.506	56598911	64282619	12.097M4	12.517M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:37
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:46:08 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:46:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.884	109.2E6	100.6E6	10.102M3	10.320M4
13)	t	gamma-Chlord	3.424	4.104	96157290	90465298	9.543M4	9.961M4
14)	t	alpha-Chlord	3.558	4.274	110.5E6	101.3E6	9.760M3	10.124M4
15)	t	4,4'-DDE	3.656	4.473	107.5E6	93263696	9.325M4	9.283M4
16)	t	Endosulfan I	3.695	4.335	102.4E6	94144855	9.968	10.358M4
17)	t	Dieldrin	3.954	4.627	102.5E6	92864186	9.418M4	9.671M3
18)	t	Endrin	4.209	4.925	105.4E6	94579708	9.682M4	9.746M4
19)	t	4,4'-DDD	4.321	5.049	82871356	75210993	9.153M4	9.330M4
20)	t	Endosulfan I	4.451	5.125	97072990	86490847	10.043	10.443M4
21)	t	4,4'-DDT	4.615	5.326	95391216	87653270	9.380M4	9.565M4
22)	t	Endrin Aldeh	4.868	5.421	80826935	71991100	9.975M3	10.462M3
23)	t	Methoxychlor	5.104	5.890	55896006	50960693	11.325M4	11.378M3
24)	t	Mirex	5.159	6.024	88807138	77737040	11.134M3	11.745
25)	t	Endosulfan S	5.259	5.650	92158727	84950349	10.221M3	10.550M4
26)	t	Endrin Keton	5.486	6.060	110.5E6	91234131	10.280M4	10.487M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:37
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:46:08 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:46:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

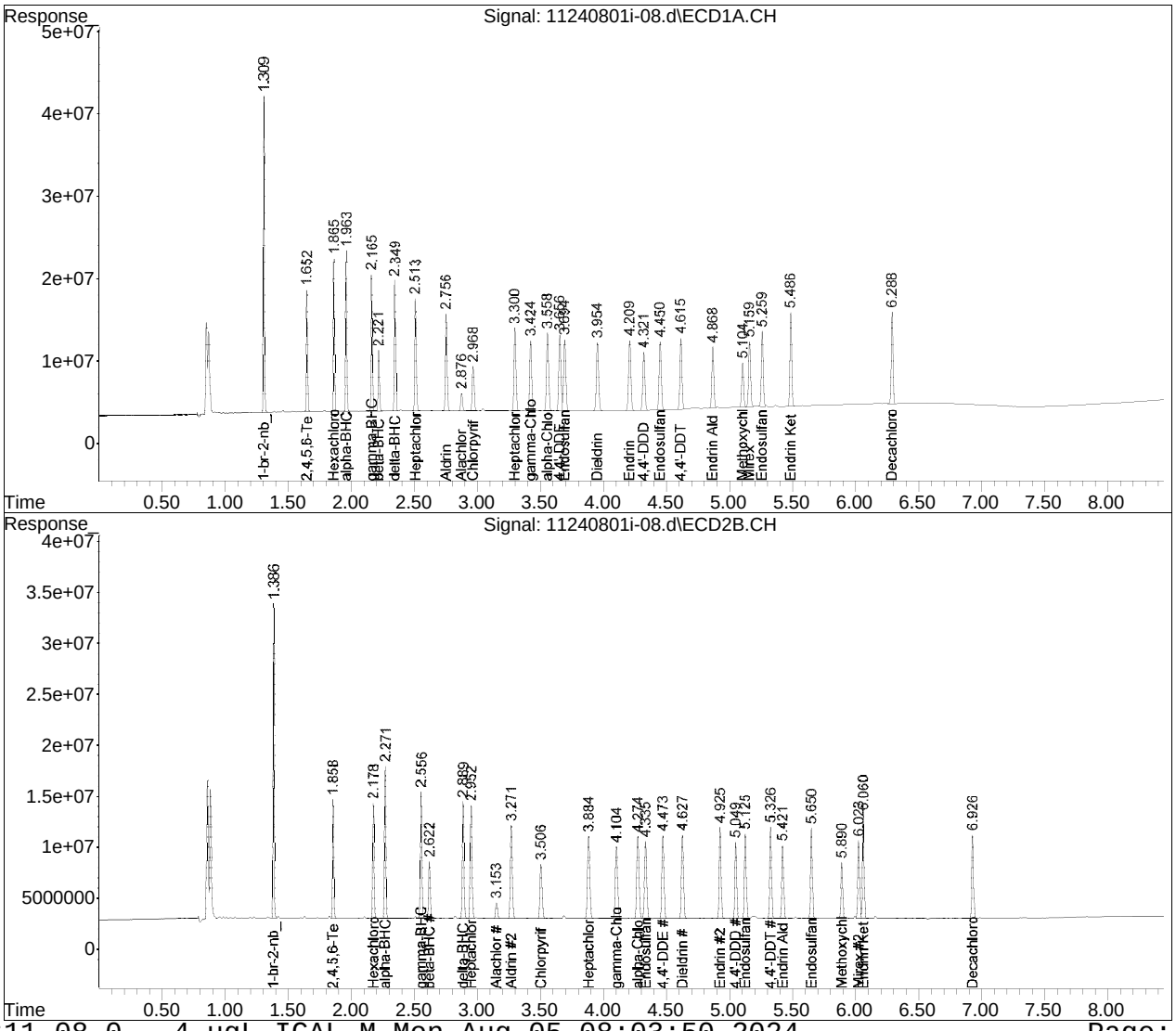
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:37
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:46:08 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:46:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

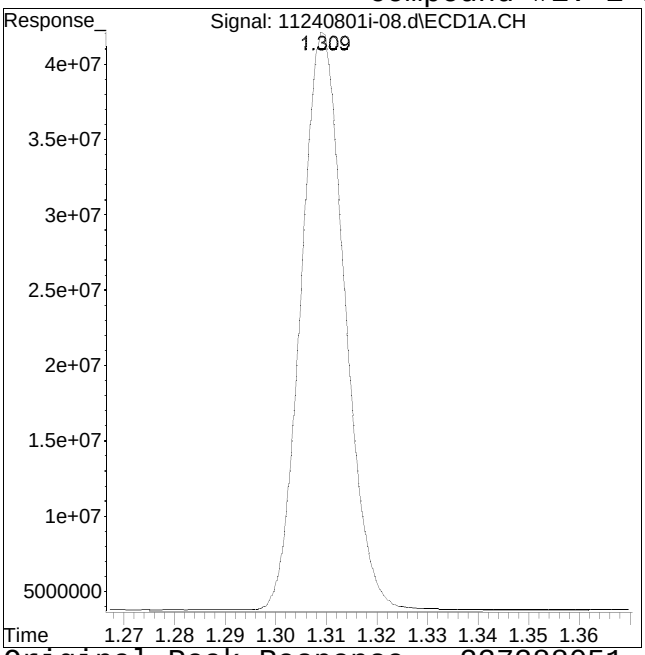


Manual Integration Report

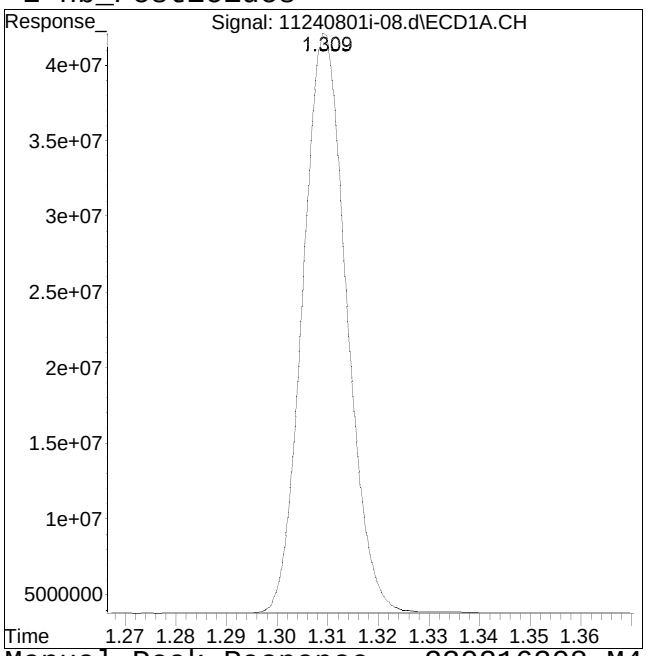
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 237388051



Manual Peak Response = 230216308 M4

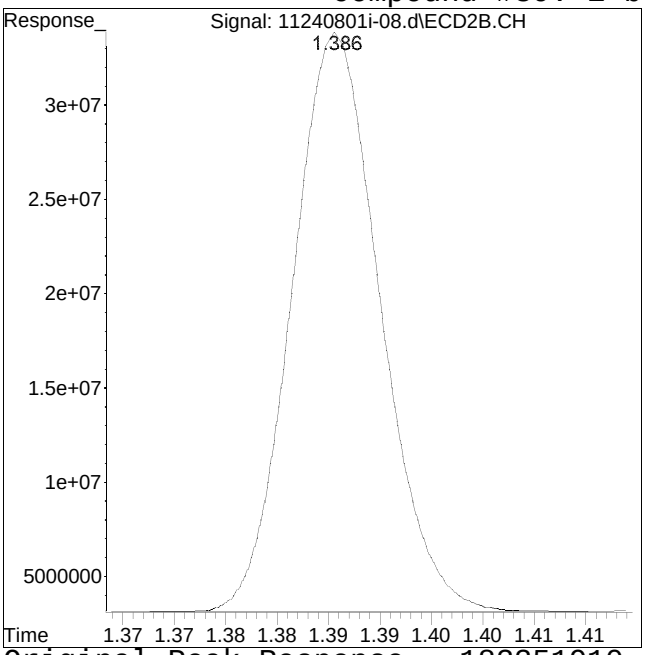
M4 = Poor automated baseline construction.

Manual Integration Report

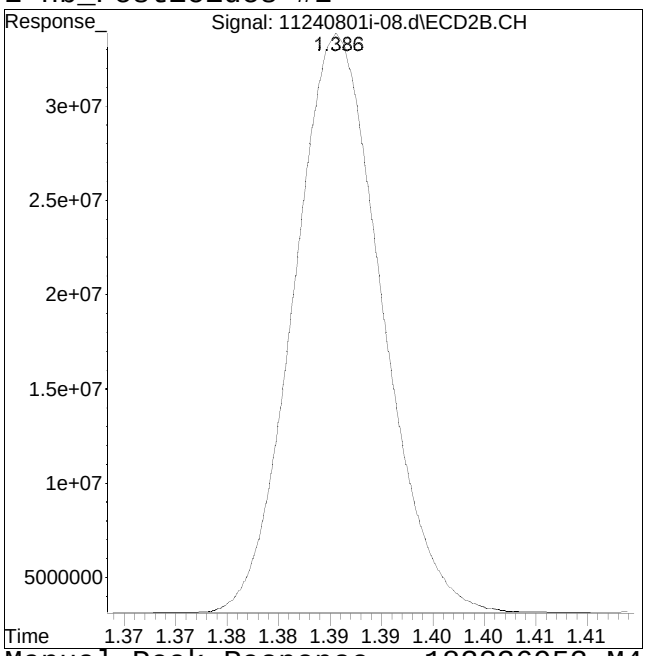
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 183351910



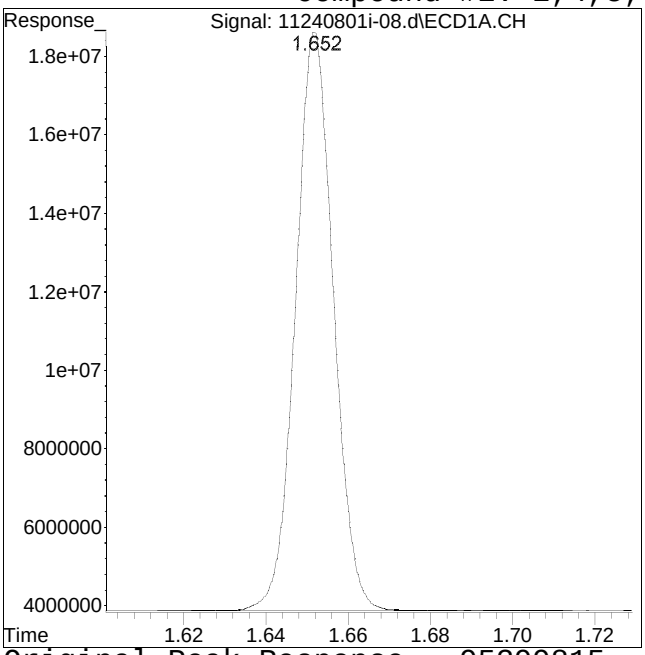
Manual Peak Response = 183236953 M4

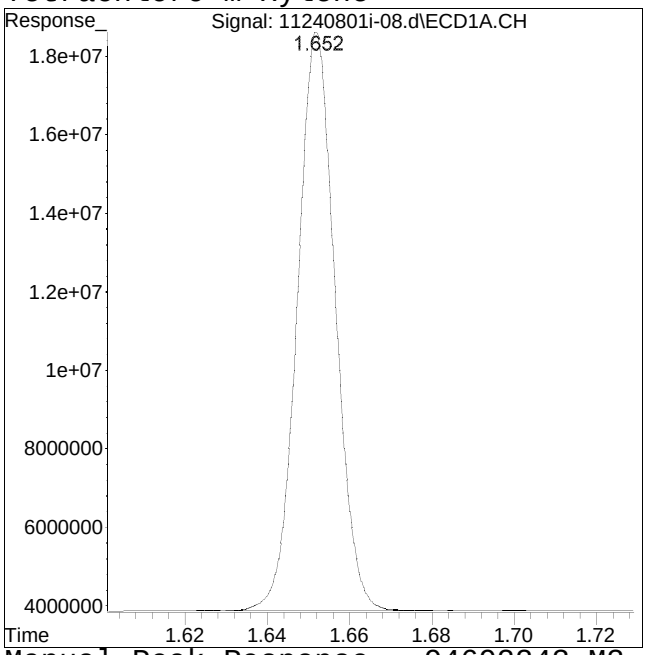
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





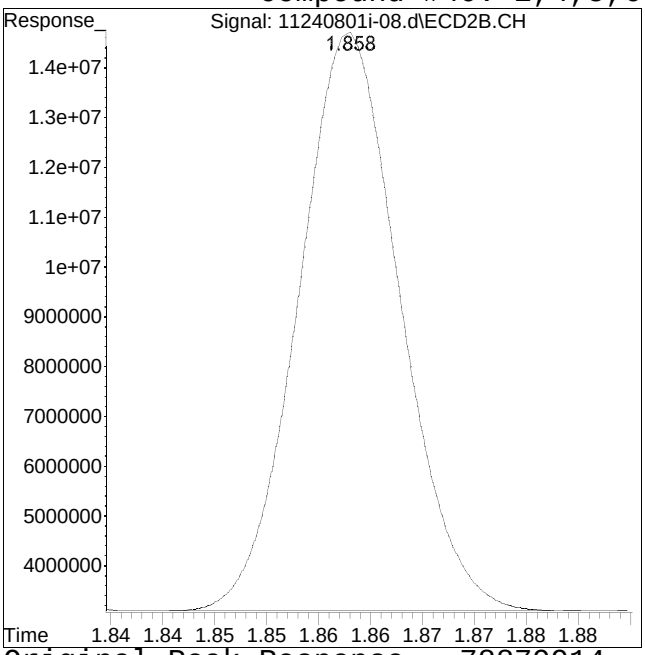
Original Peak Response = 95399815 Manual Peak Response = 94692243 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

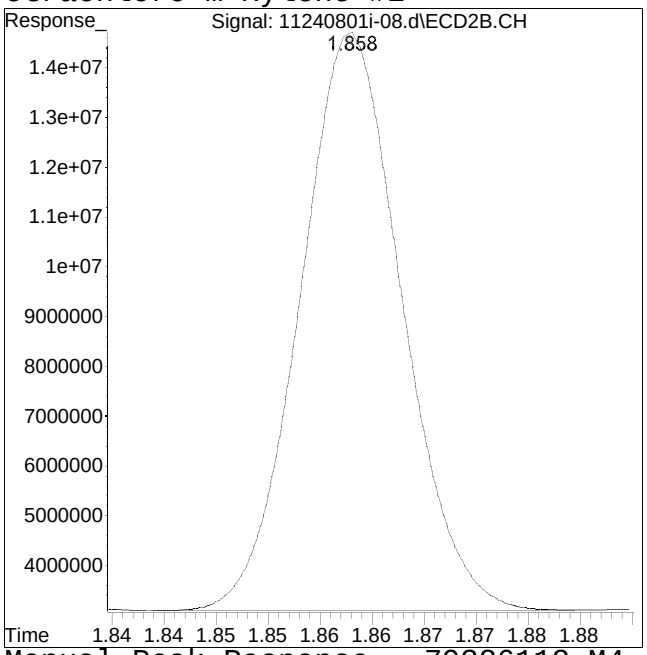
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 78879914



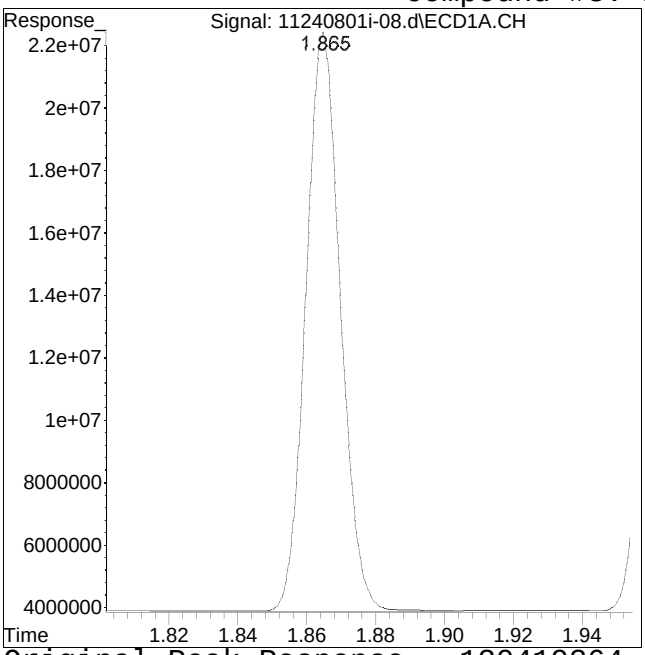
Manual Peak Response = 79326112 M4

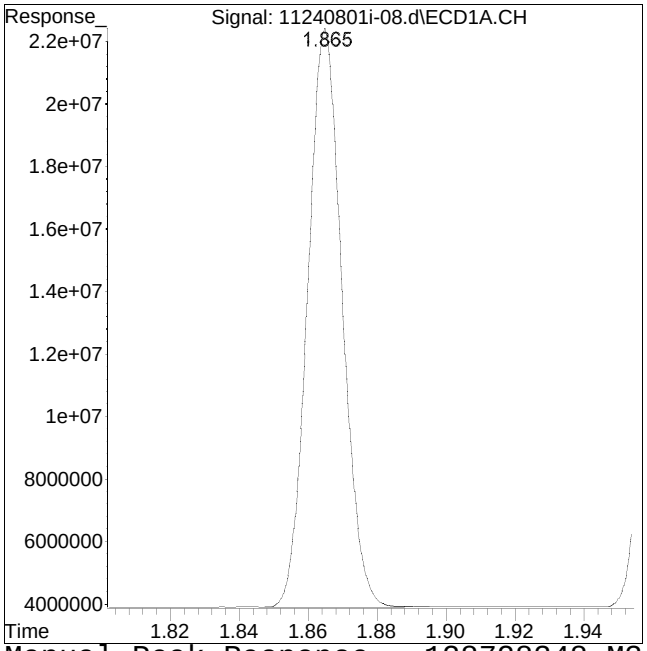
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #3: Hexachlorobenzene





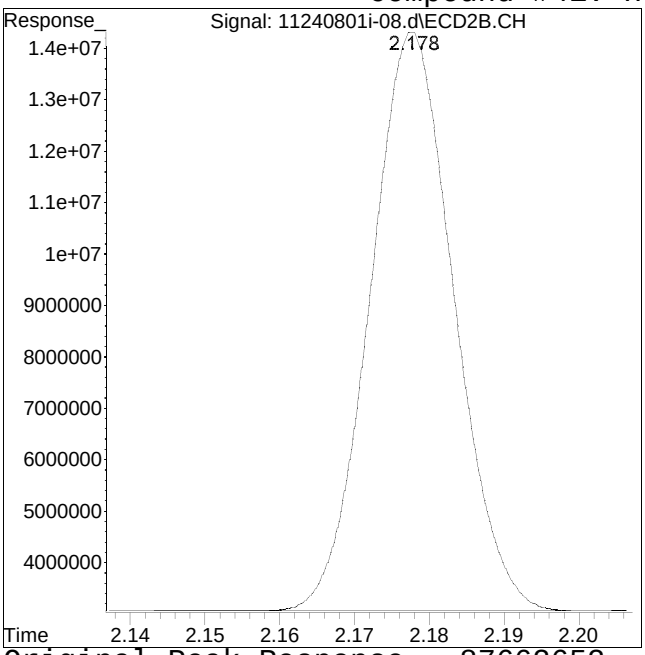
Original Peak Response = 130419364 Manual Peak Response = 128728348 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

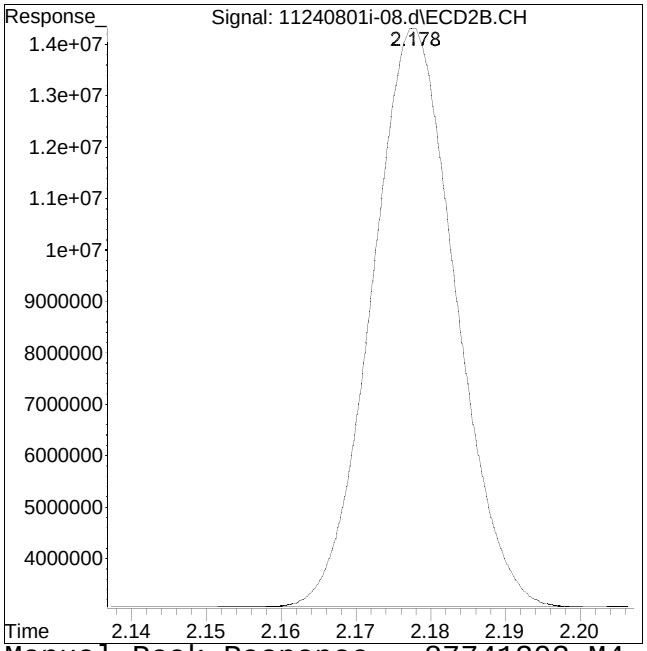
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 87662652



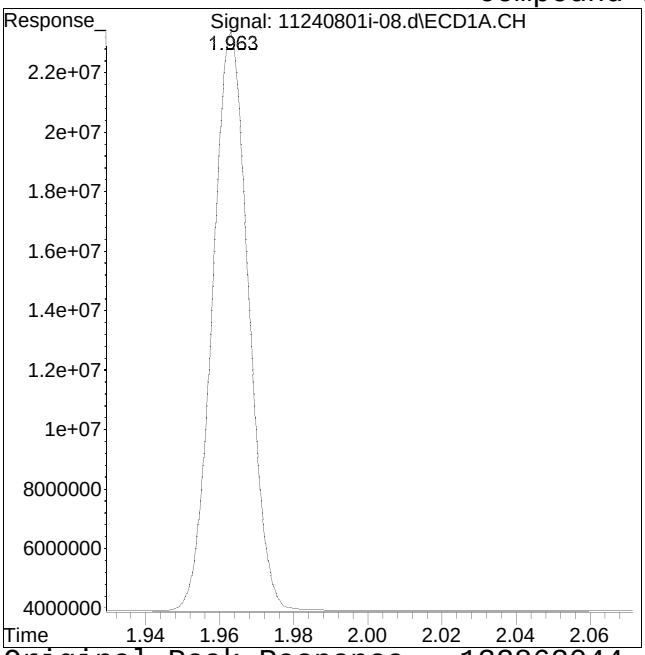
Manual Peak Response = 87741303 M4

M4 = Poor automated baseline construction.

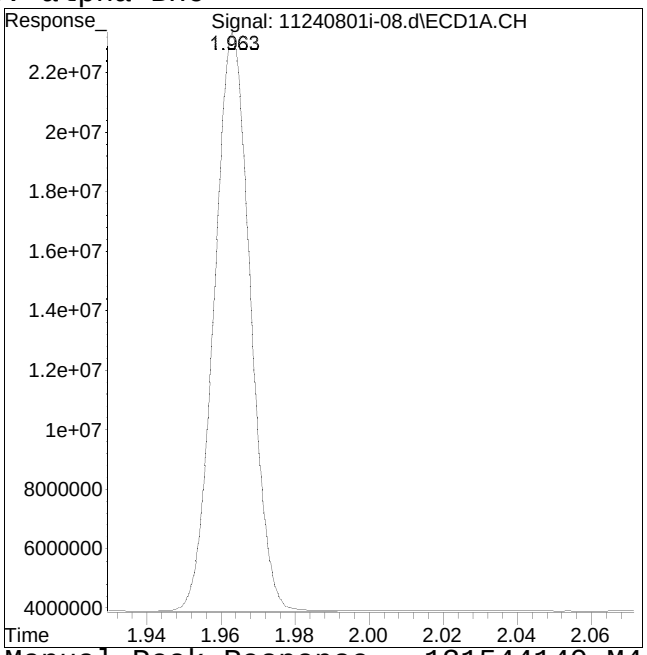
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #4: alpha-BHC



Original Peak Response = 132862044



Manual Peak Response = 131544140 M4

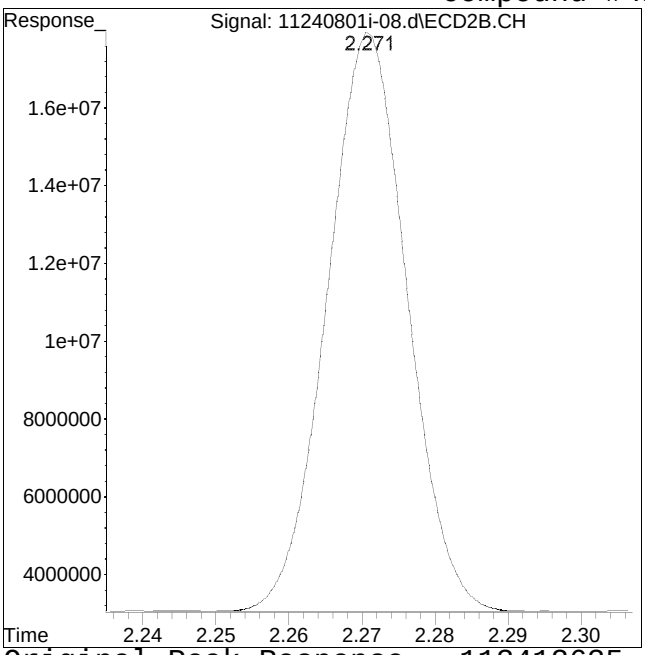
M4 = Poor automated baseline construction.

Manual Integration Report

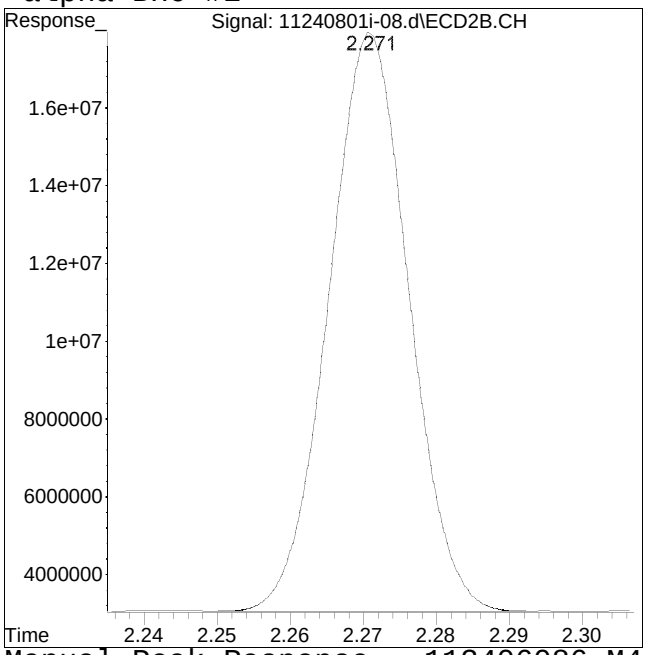
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #42: alpha-BHC #2



Original Peak Response = 113412635



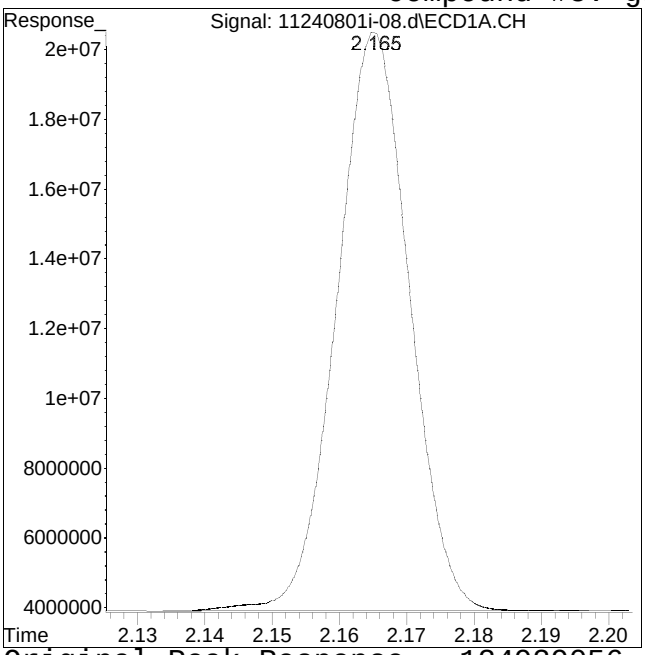
Manual Peak Response = 113406086 M4

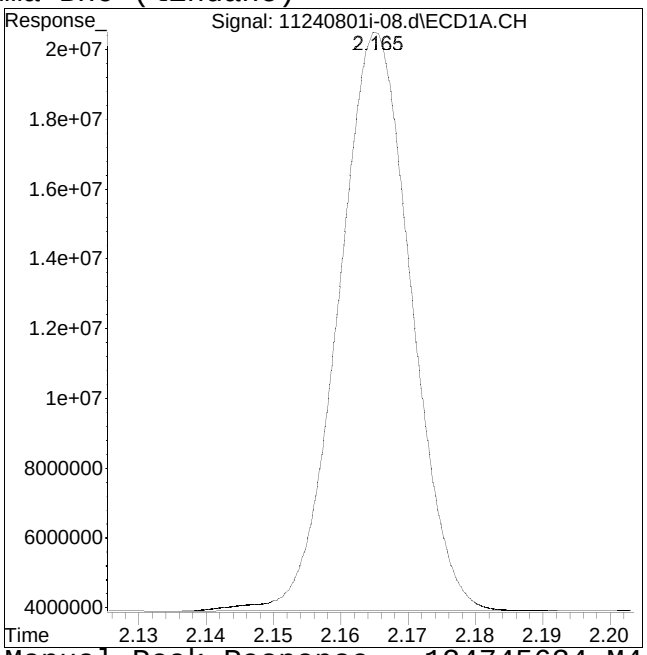
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #5: gamma-BHC (lindane)



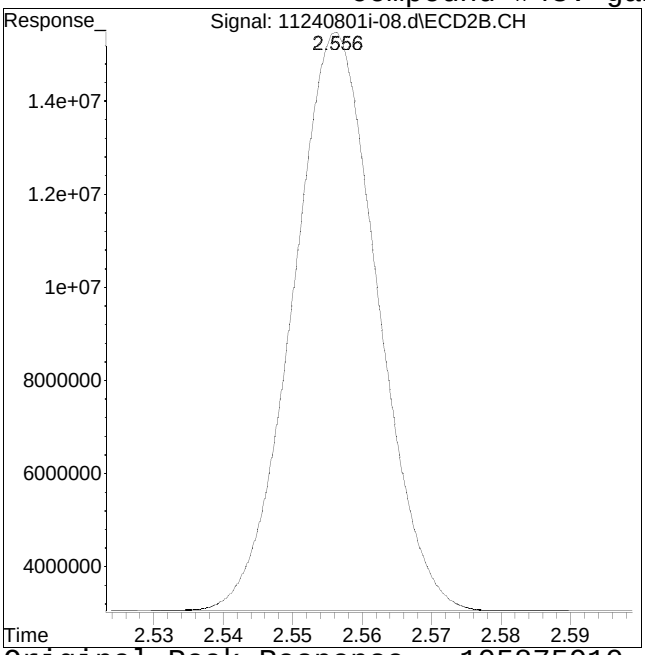


Original Peak Response = 124929056 Manual Peak Response = 124745634 M4
M4 = Poor automated baseline construction.

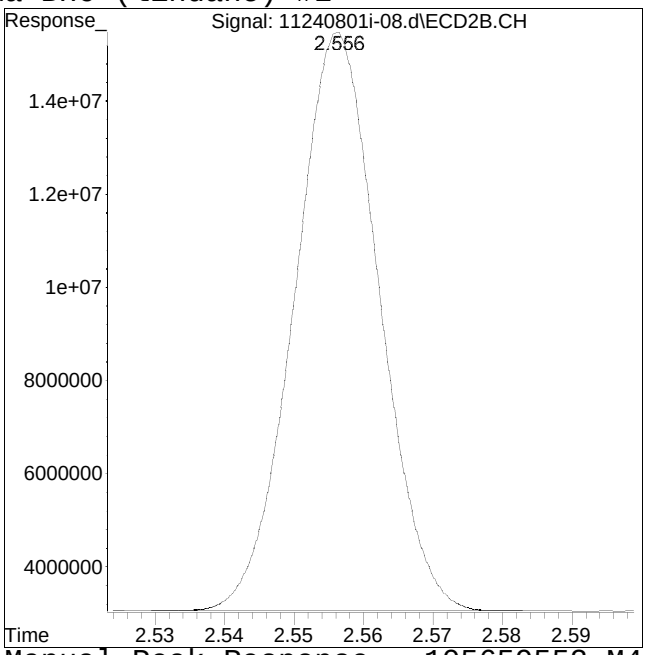
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 105875910



Manual Peak Response = 105659552 M4

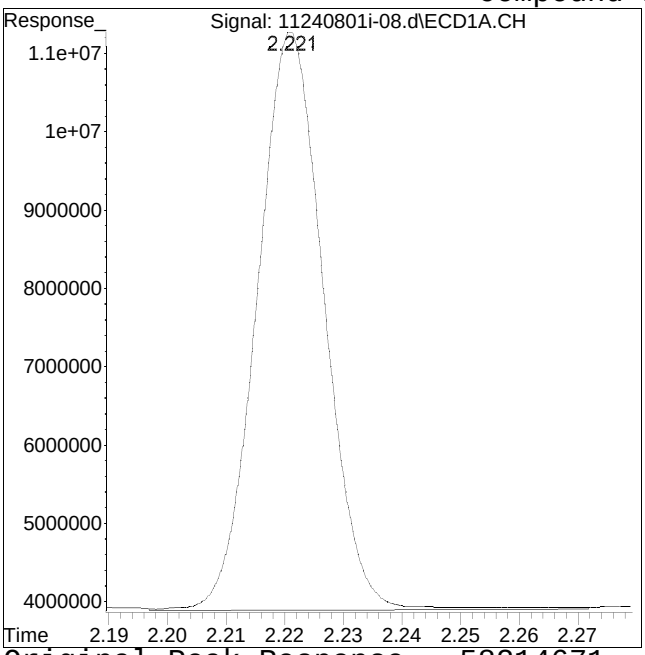
M4 = Poor automated baseline construction.

Manual Integration Report

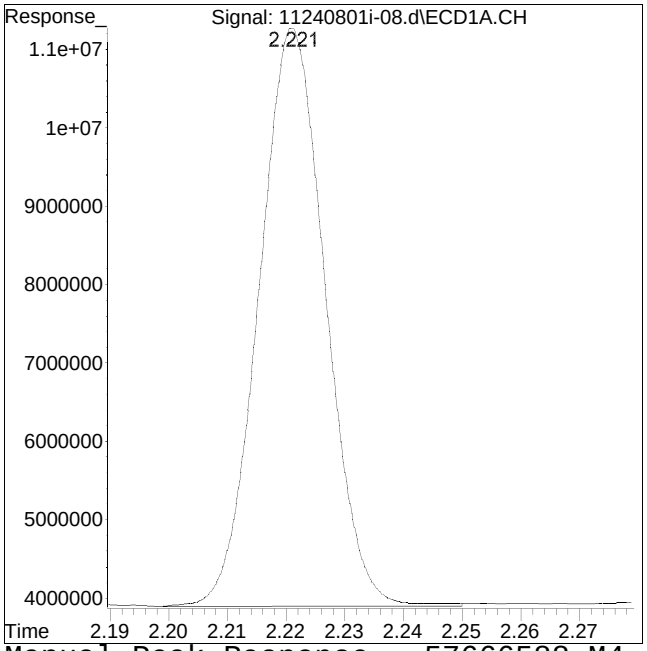
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #6: beta-BHC



Original Peak Response = 58214671



Manual Peak Response = 57666588 M4

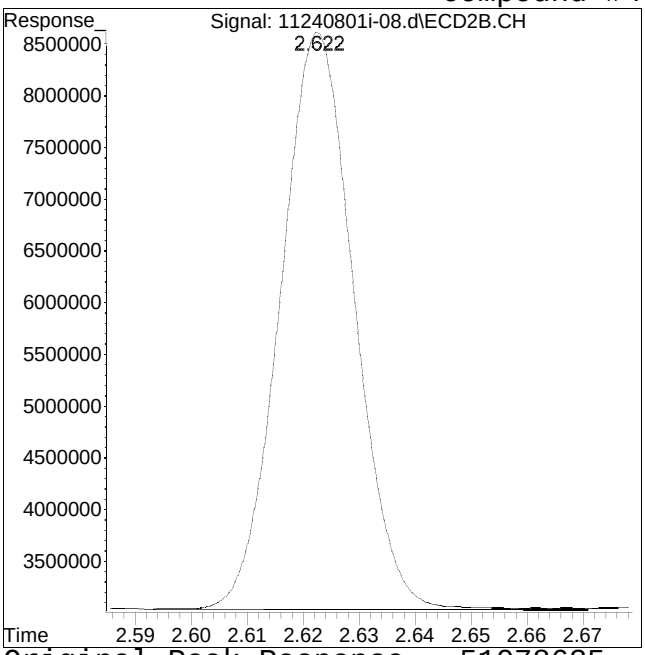
M4 = Poor automated baseline construction.

Manual Integration Report

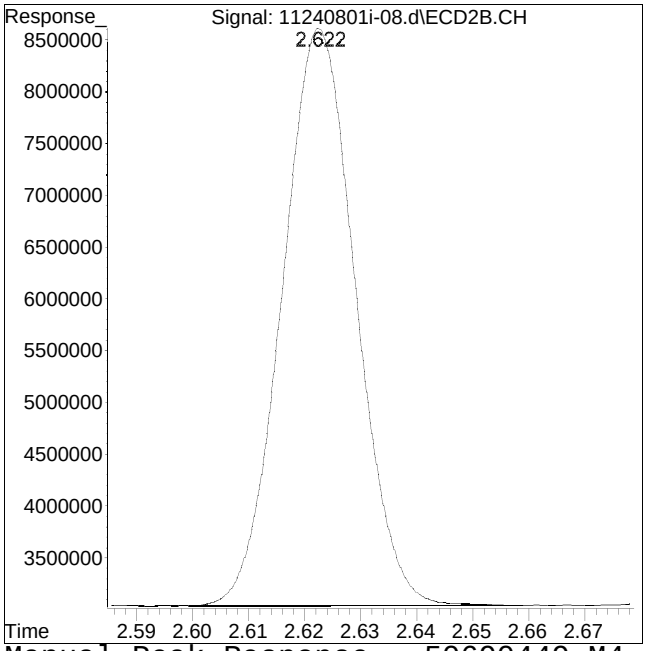
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #44: beta-BHC #2



Original Peak Response = 51078635



Manual Peak Response = 50690449 M4

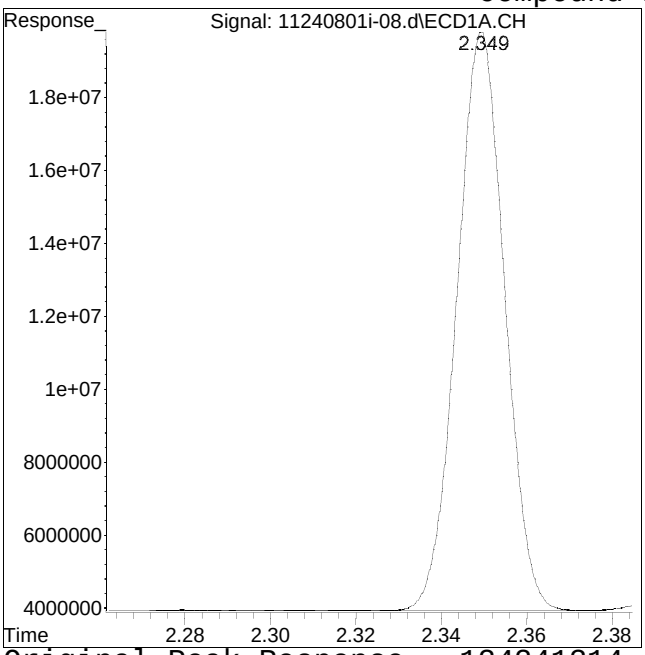
M4 = Poor automated baseline construction.

Manual Integration Report

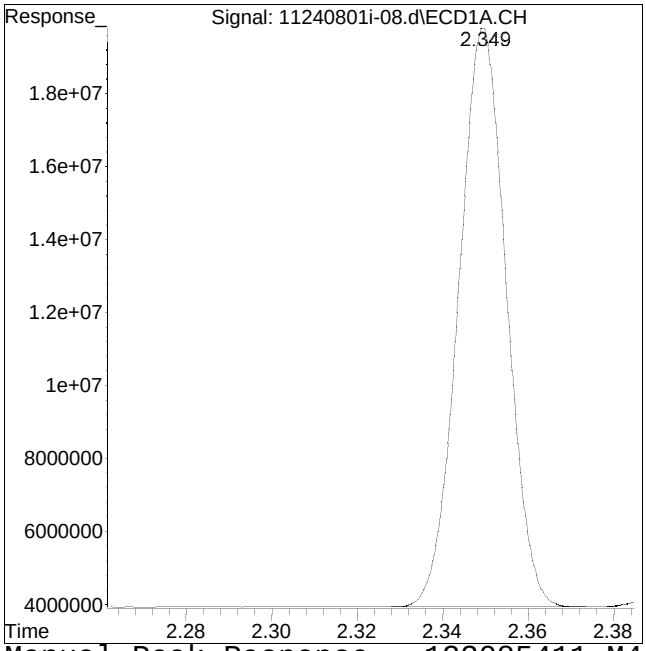
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #7: delta-BHC



Original Peak Response = 124241314



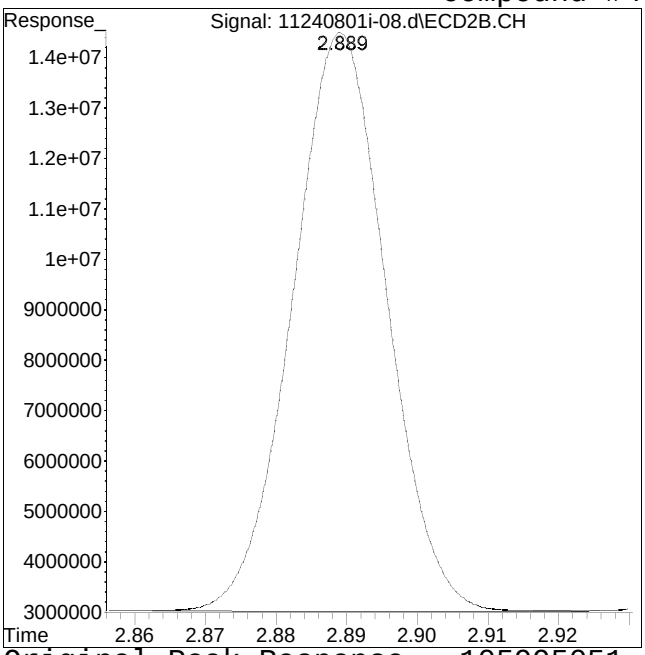
Manual Peak Response = 123085411 M4

M4 = Poor automated baseline construction.

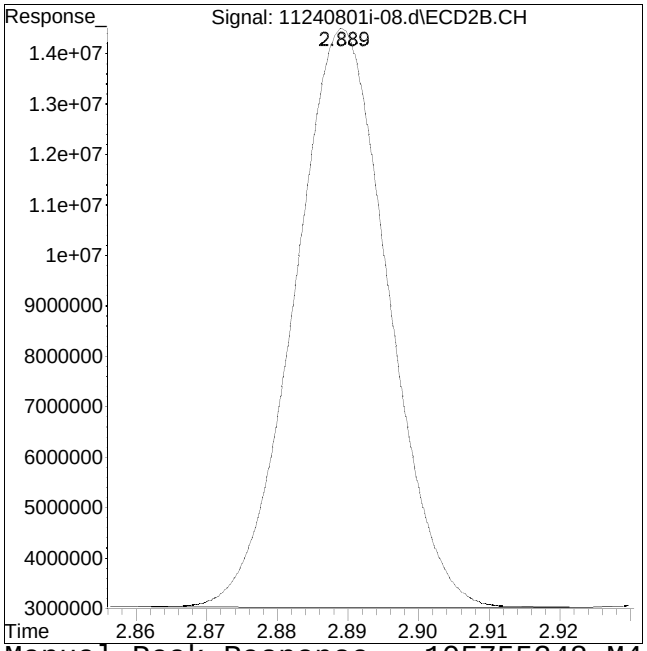
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #45: delta-BHC #2



Original Peak Response = 105995051



Manual Peak Response = 105755248 M4

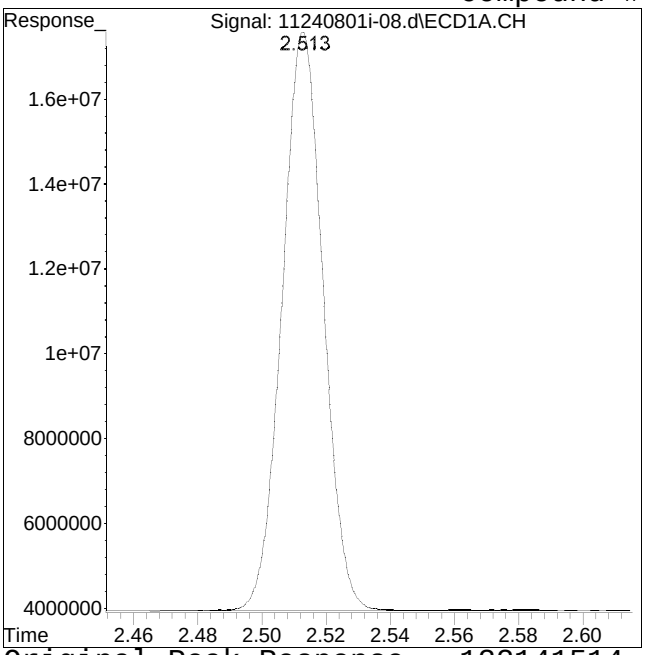
M4 = Poor automated baseline construction.

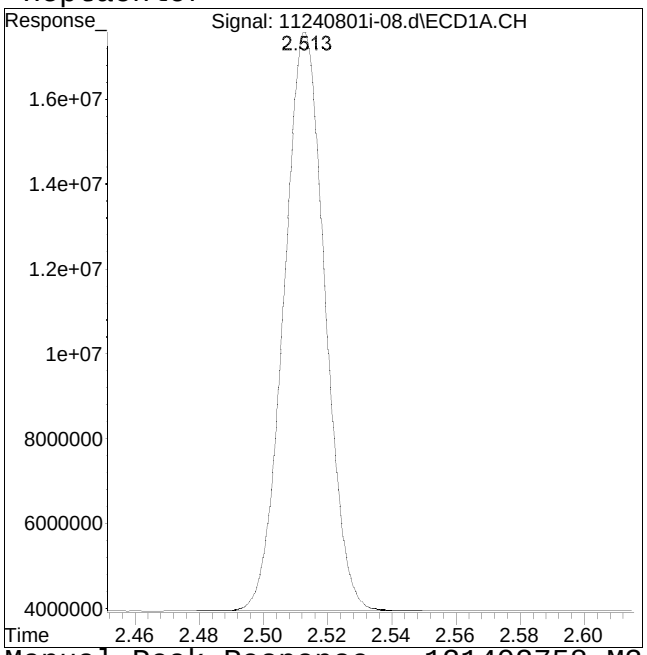
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #8: Heptachlor





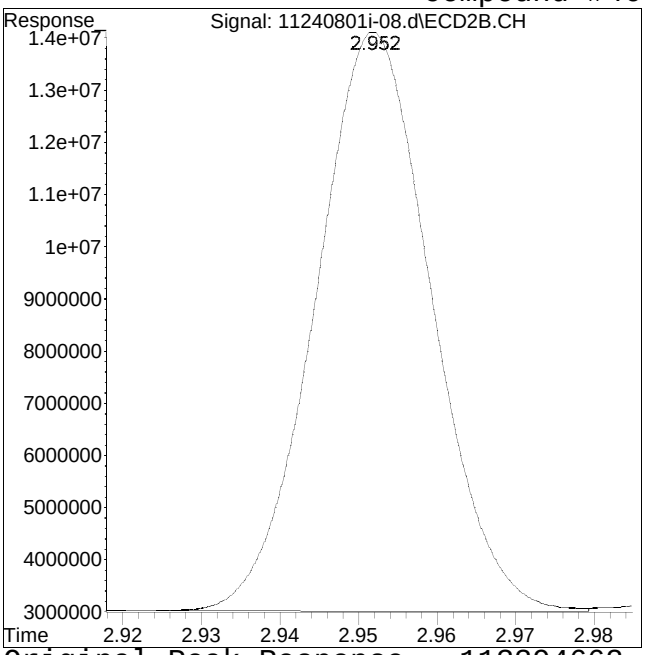
Original Peak Response = 122141514 Manual Peak Response = 121402758 M3

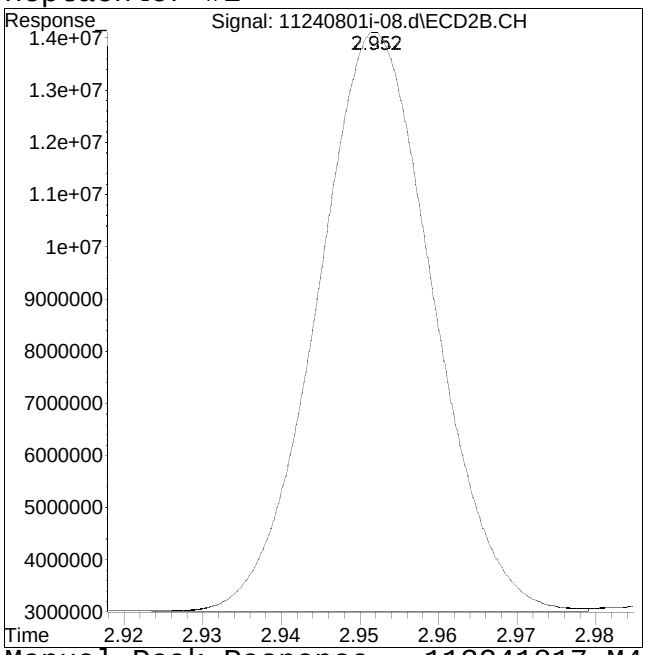
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #46: Heptachlor #2





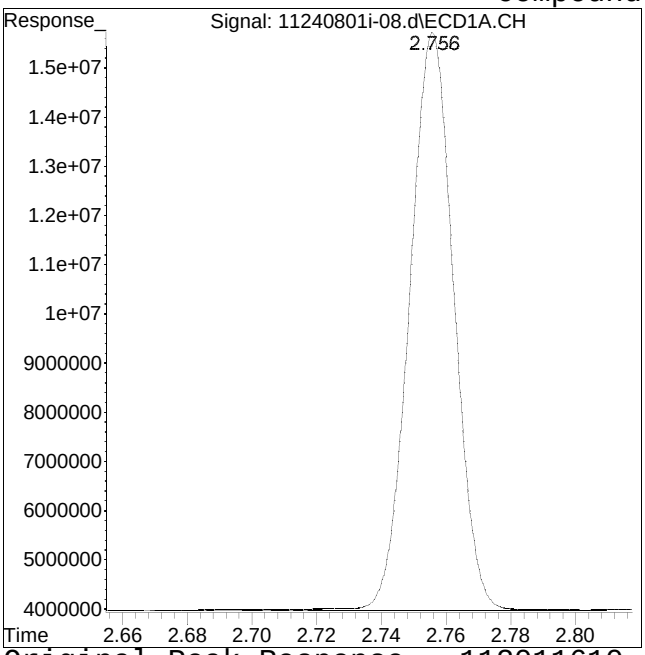
Original Peak Response = 113394662 Manual Peak Response = 113241817 M4
M4 = Poor automated baseline construction.

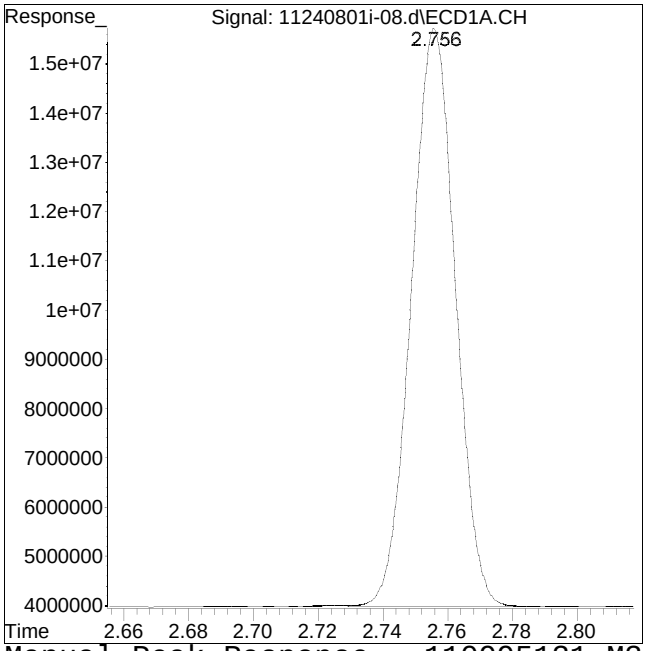
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #9: Aldrin





Original Peak Response = 112011610 Manual Peak Response = 110995131 M3

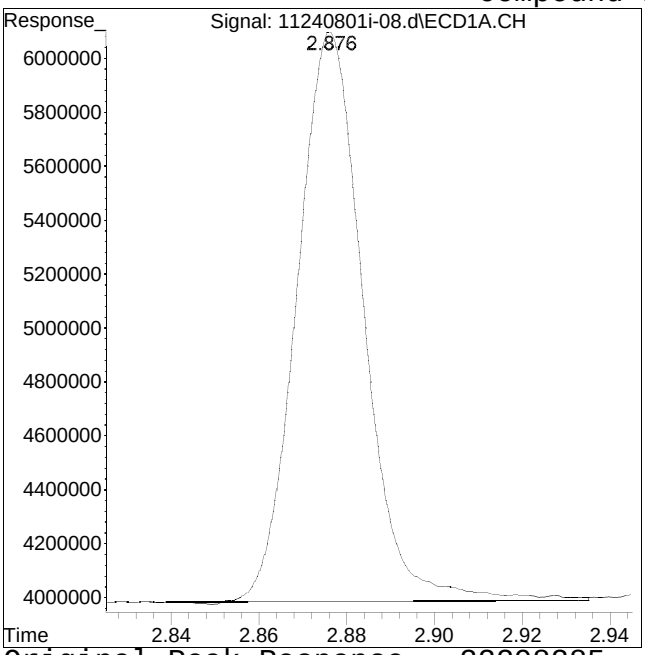
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

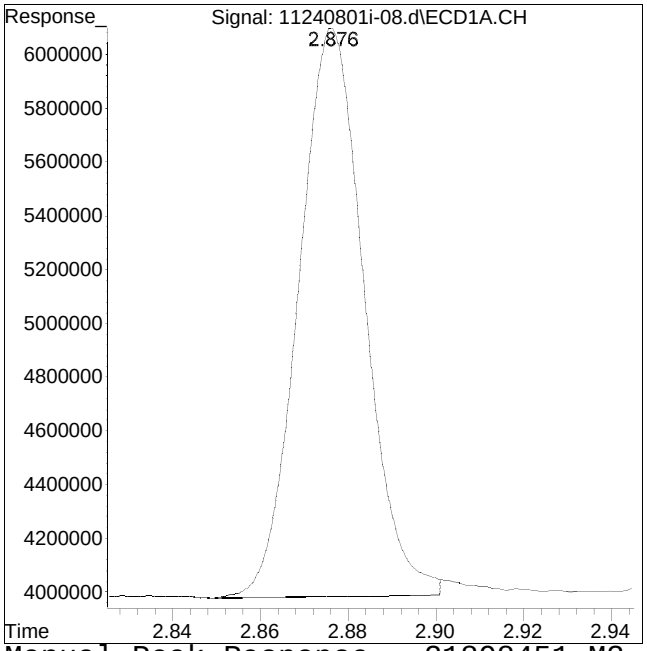
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #10: Alachlor



Original Peak Response = 22298285



Manual Peak Response = 21898451 M3

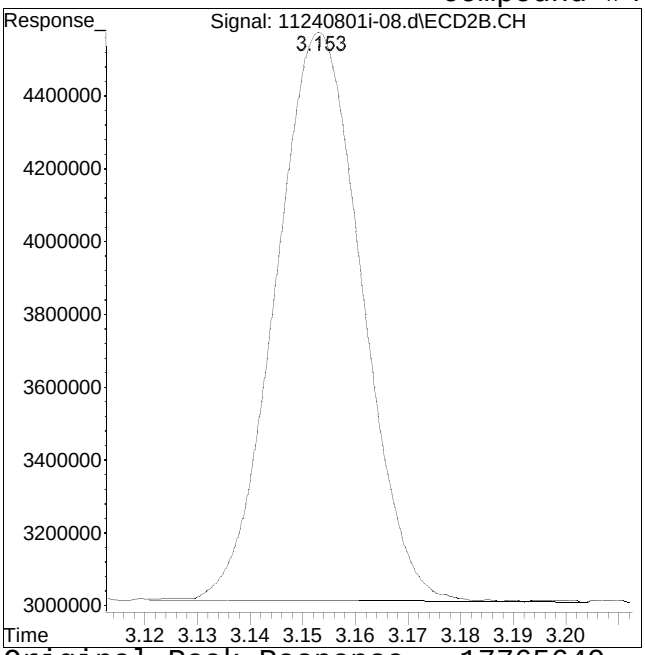
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

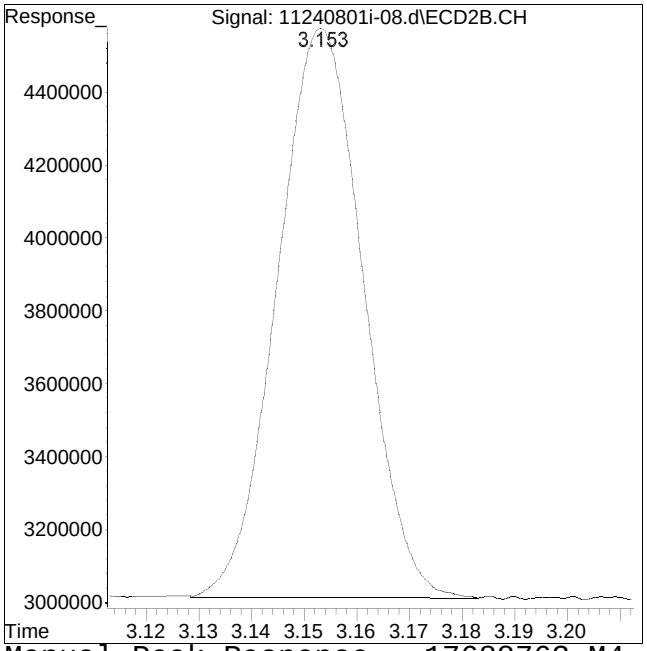
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #48: Alachlor #2



Original Peak Response = 17765640



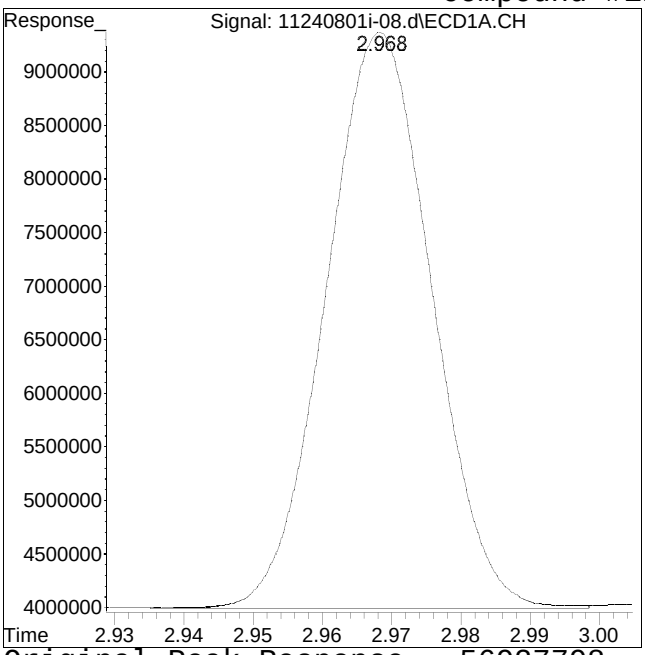
Manual Peak Response = 17688763 M4

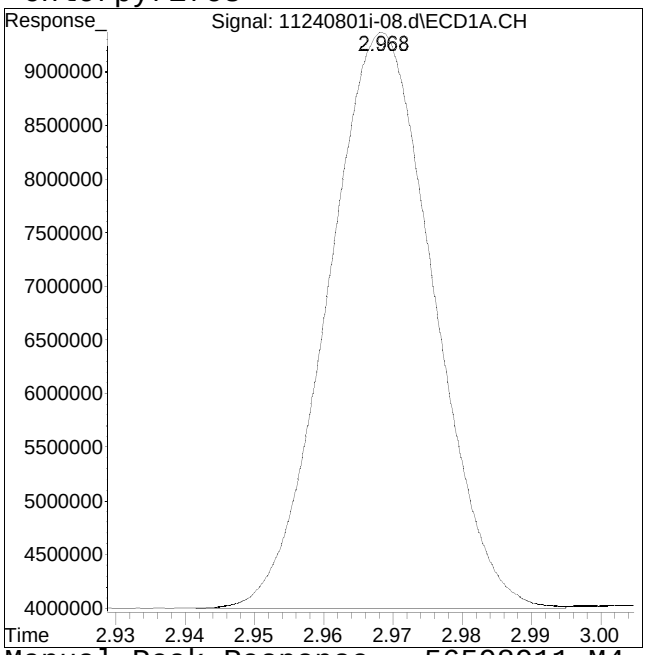
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #11: Chlorpyrifos



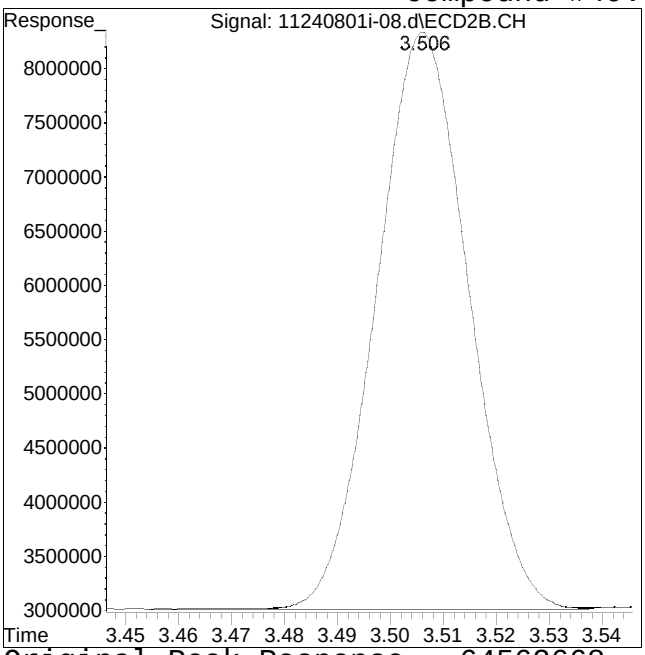


Original Peak Response = 56927798 Manual Peak Response = 56598911 M4
M4 = Poor automated baseline construction.

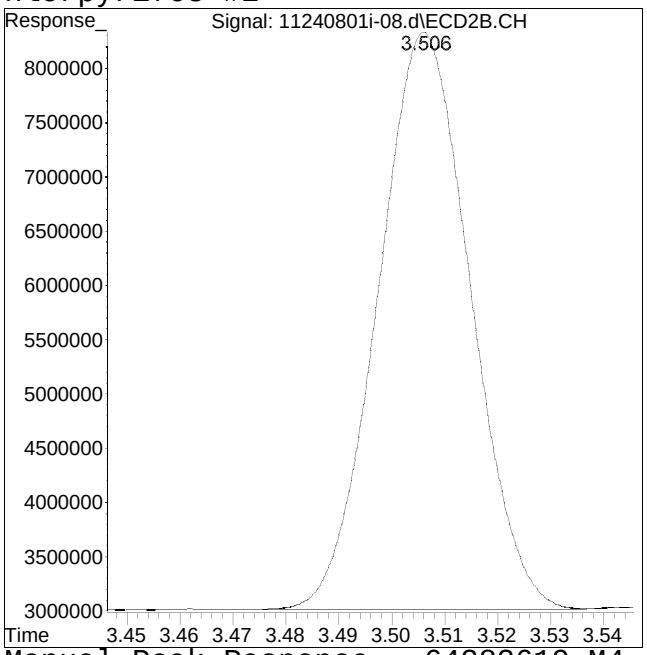
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 64562668



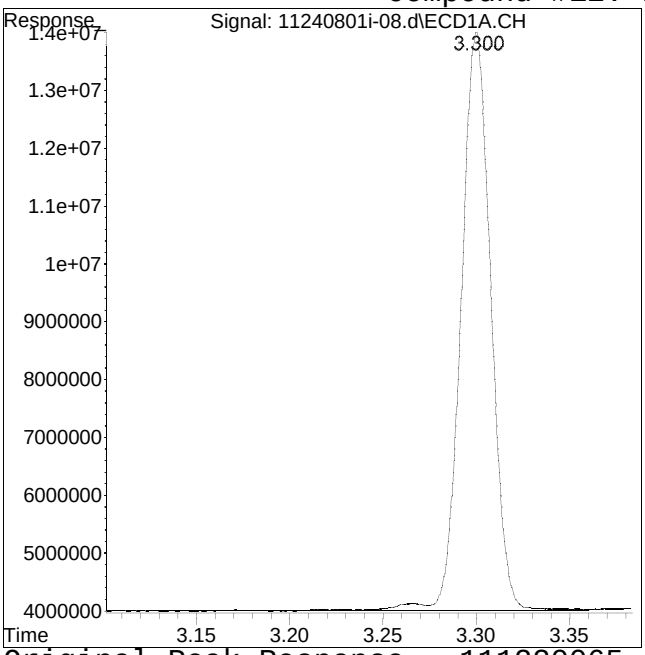
Manual Peak Response = 64282619 M4

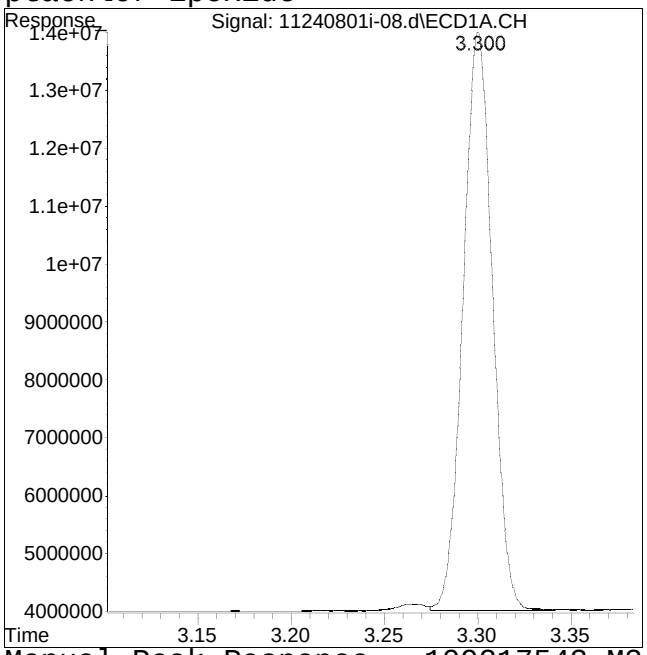
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #12: Heptachlor Epoxide



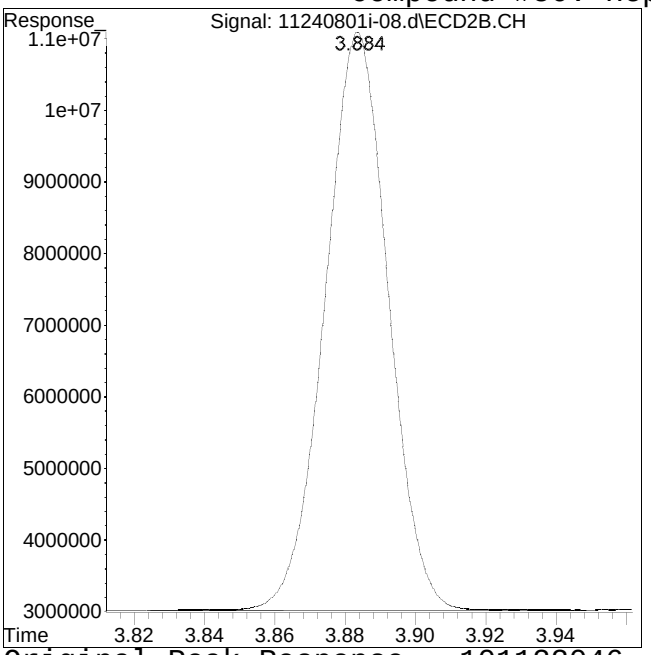


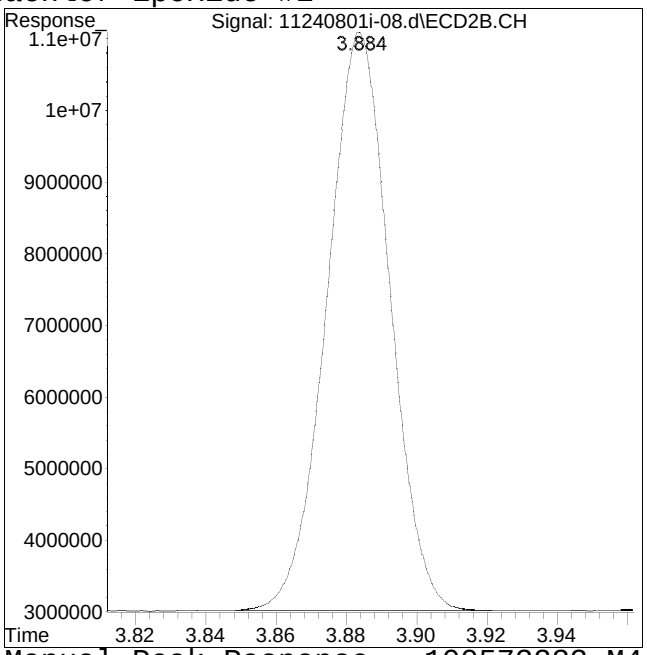
Original Peak Response = 111220065 Manual Peak Response = 109217543 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #50: Heptachlor Epoxide #2





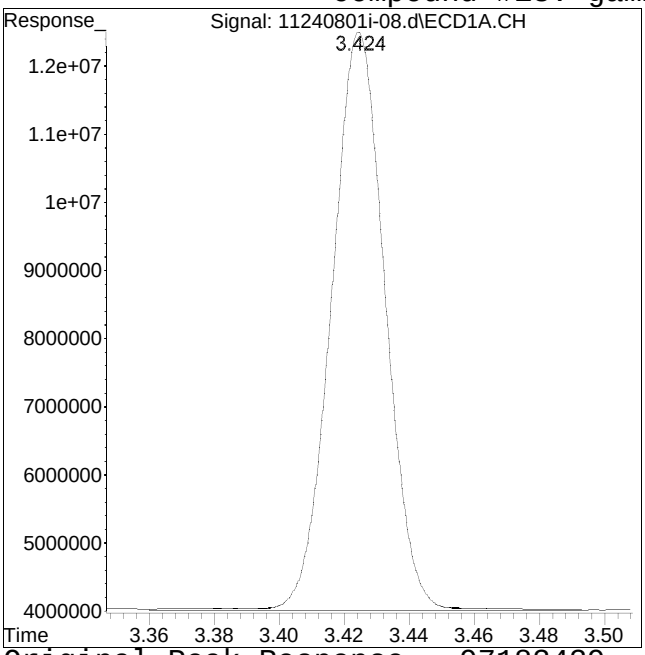
Original Peak Response = 101122046 Manual Peak Response = 100573233 M4
M4 = Poor automated baseline construction.

Manual Integration Report

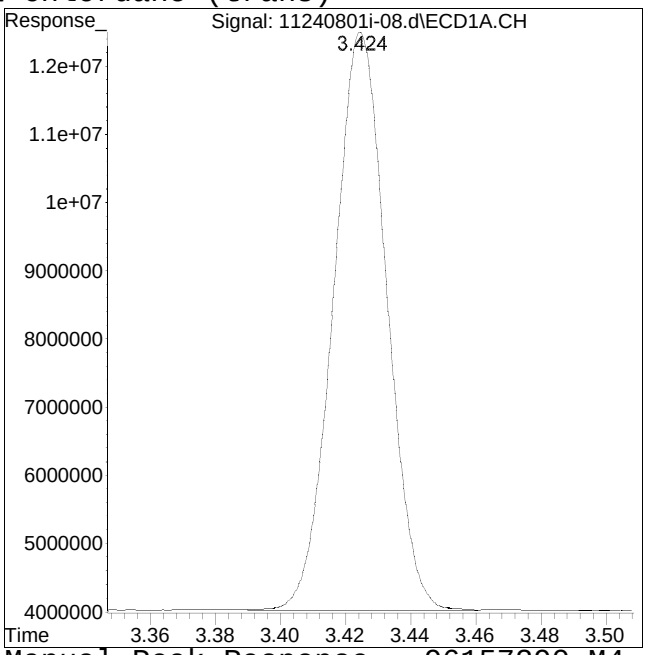
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 97183439



Manual Peak Response = 96157290 M4

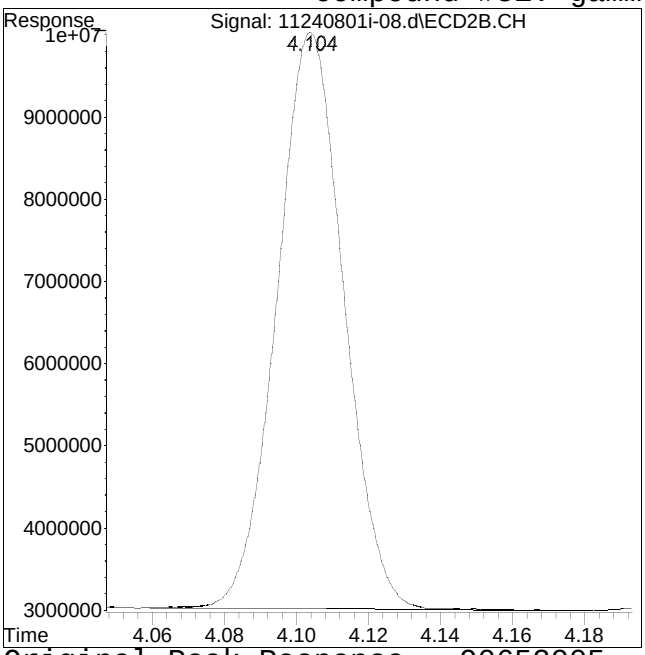
M4 = Poor automated baseline construction.

Manual Integration Report

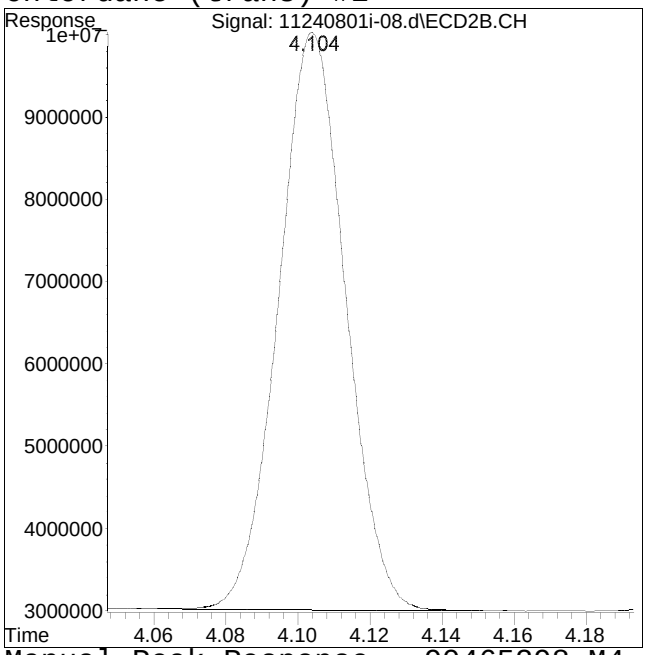
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 90652005



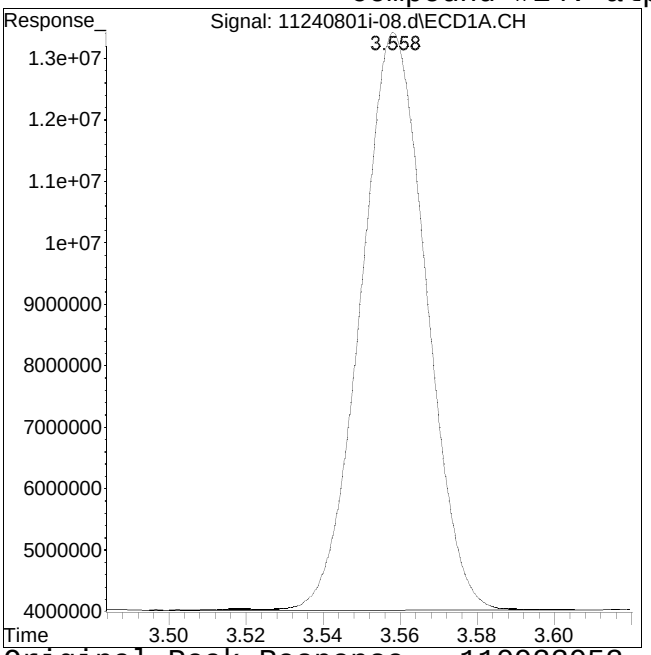
Manual Peak Response = 90465298 M4

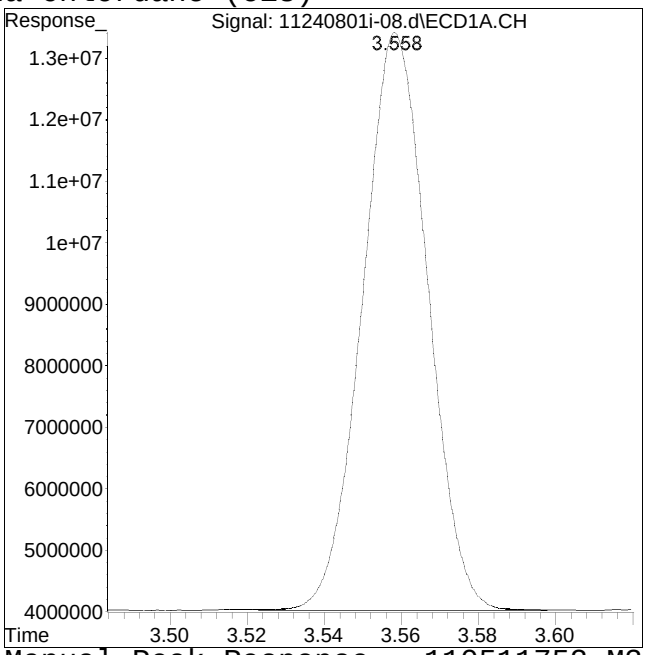
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #14: alpha-Chlordane (cis)





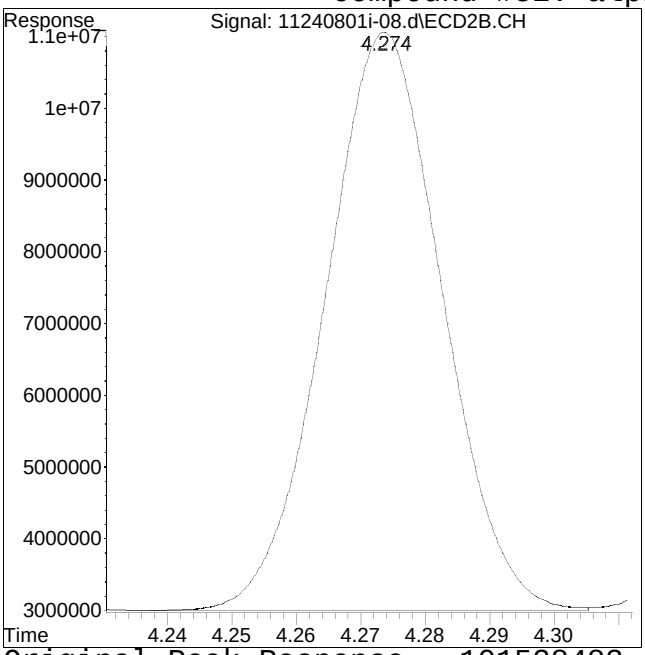
Original Peak Response = 110933953 Manual Peak Response = 110511752 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

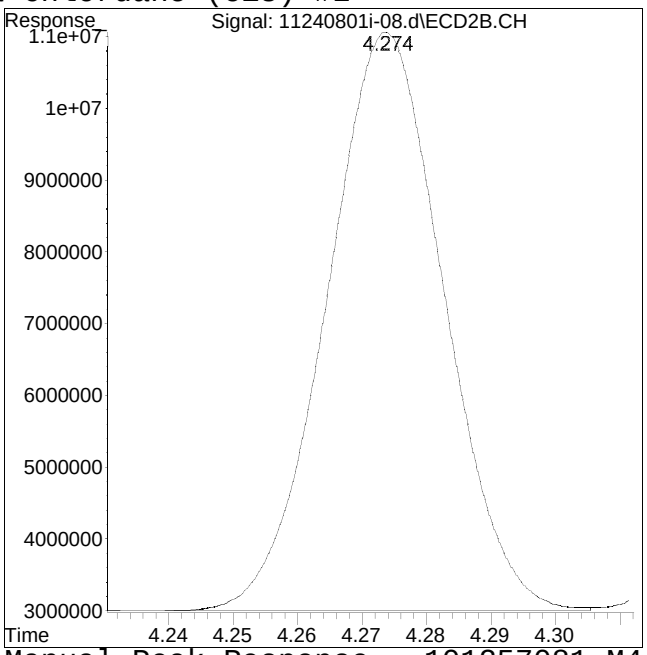
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #52: alpha-Chlordane (cis) #2





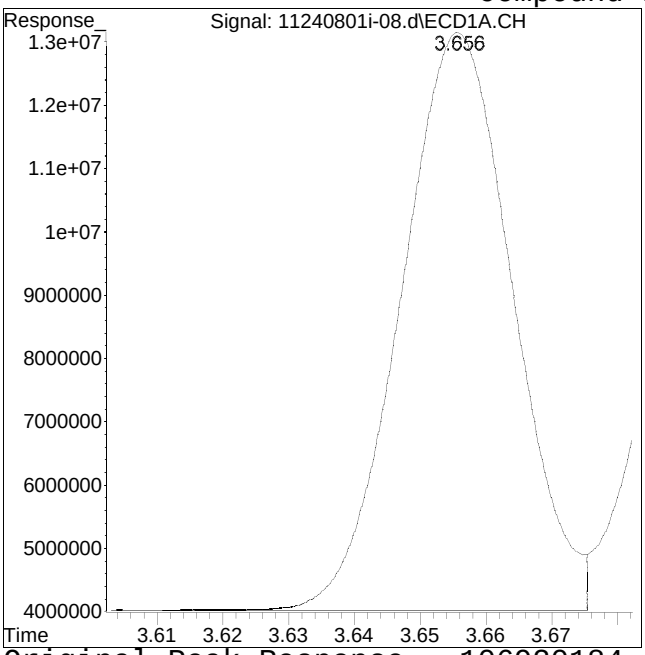
Original Peak Response = 101528483 Manual Peak Response = 101257081 M4
M4 = Poor automated baseline construction.

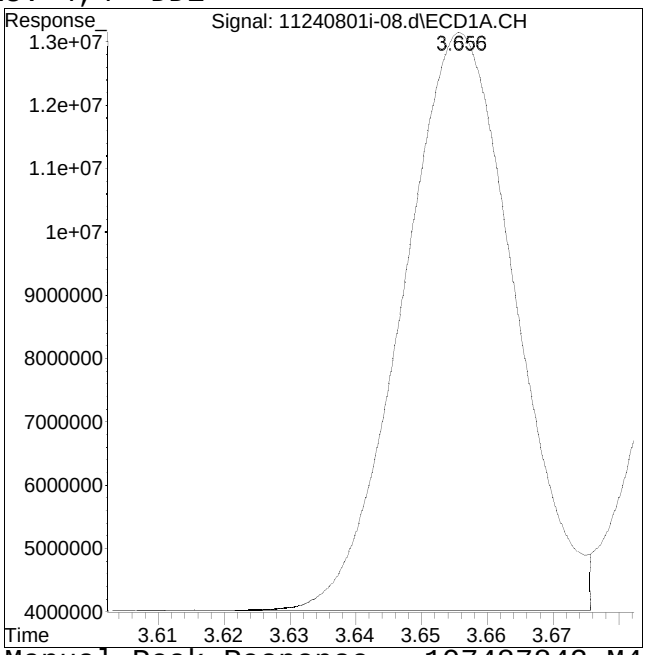
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #15: 4,4'-DDE



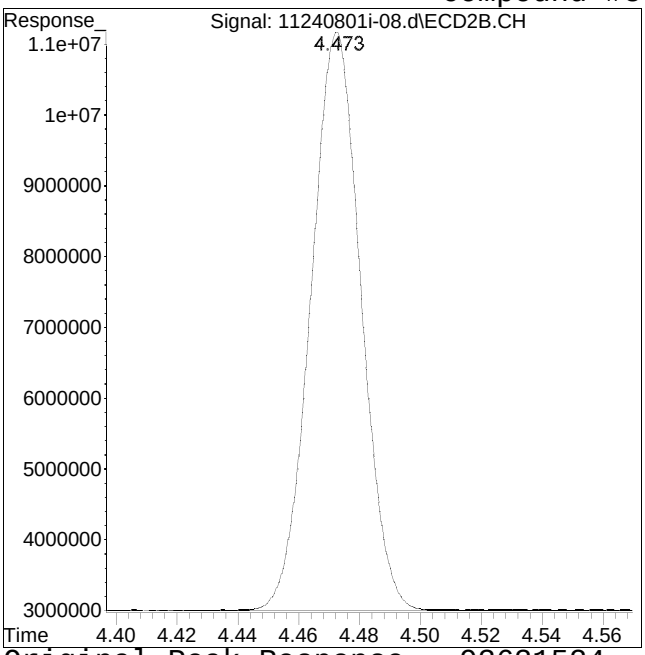


Original Peak Response = 106920184 Manual Peak Response = 107487842 M4
M4 = Poor automated baseline construction.

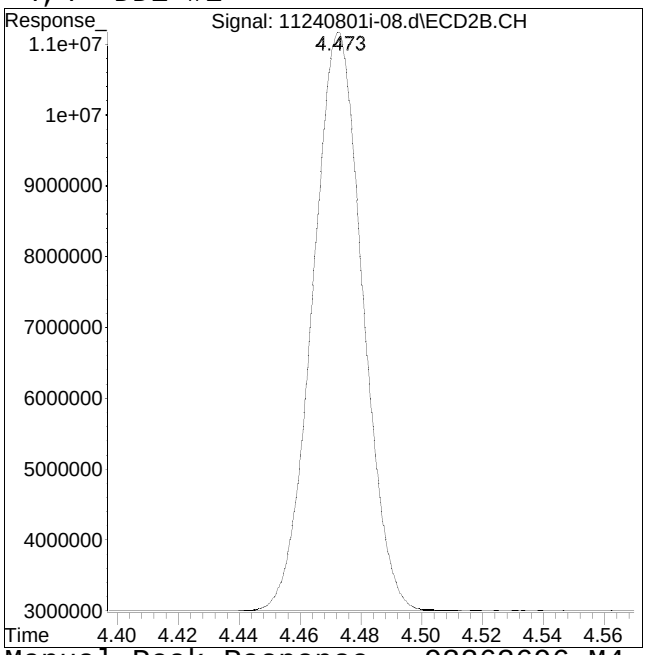
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 93631524



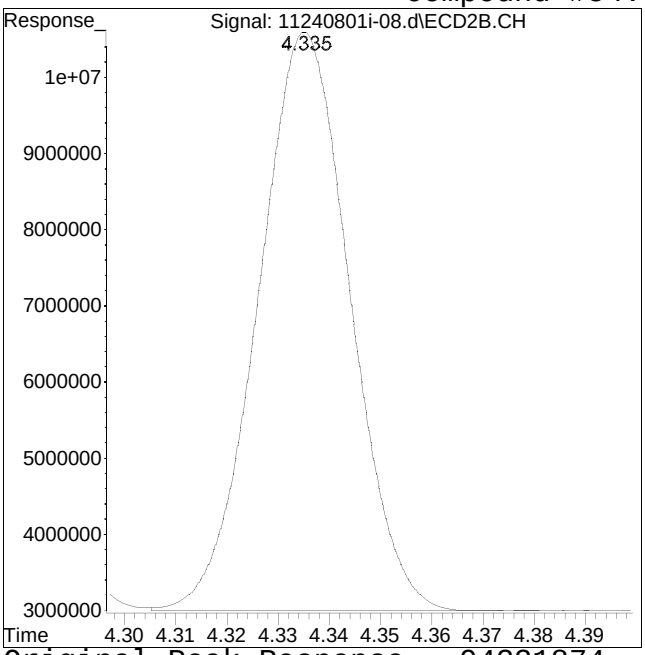
Manual Peak Response = 93263696 M4

M4 = Poor automated baseline construction.

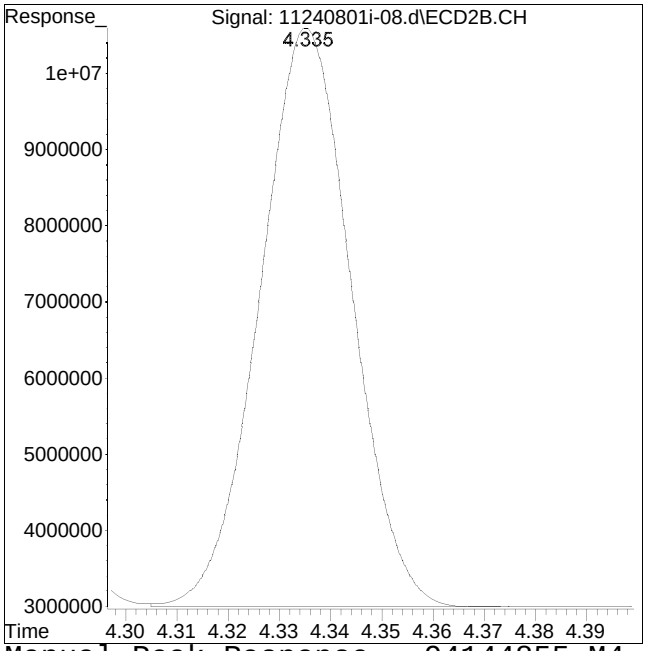
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #54: Endosulfan I #2



Original Peak Response = 94331874



Manual Peak Response = 94144855 M4

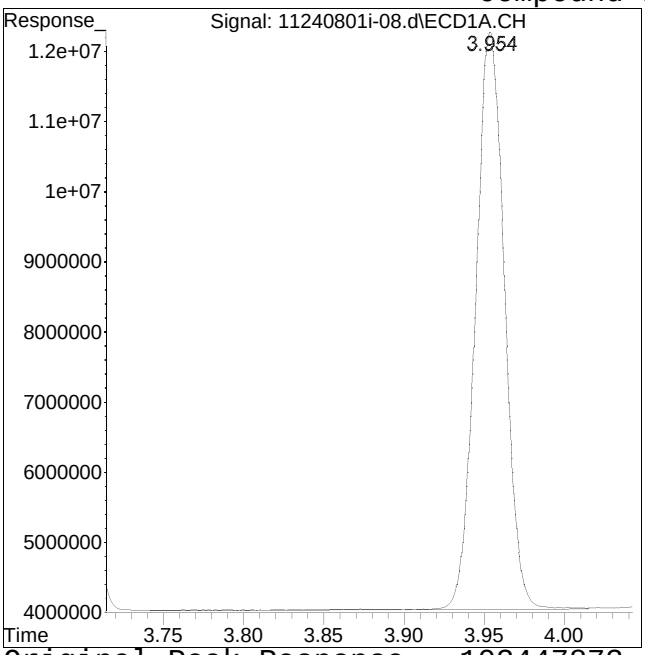
M4 = Poor automated baseline construction.

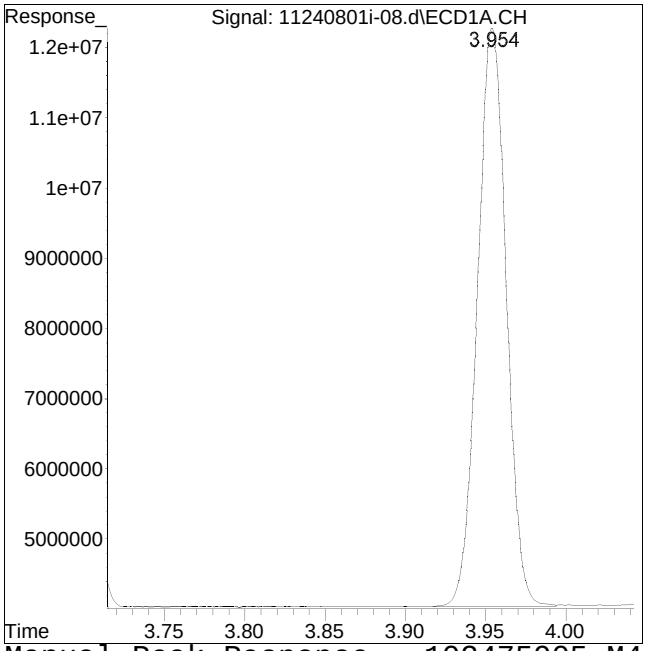
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #17: Dieldrin





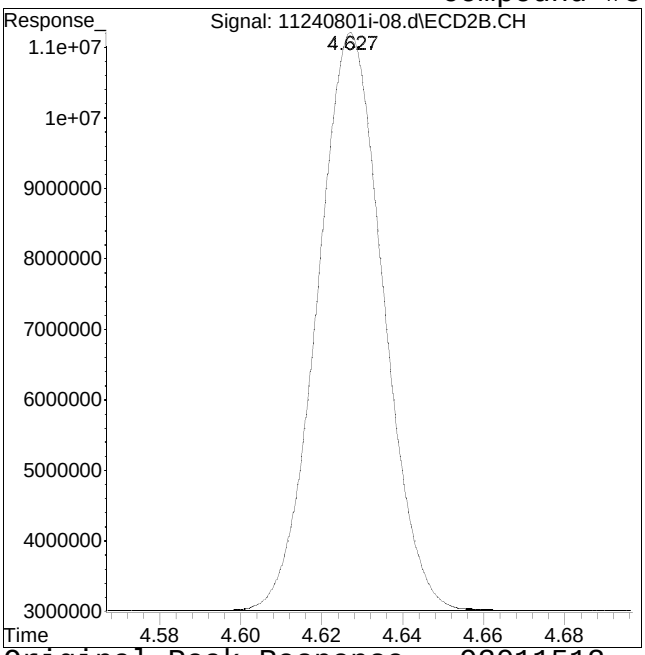
Original Peak Response = 103447873 Manual Peak Response = 102475905 M4
M4 = Poor automated baseline construction.

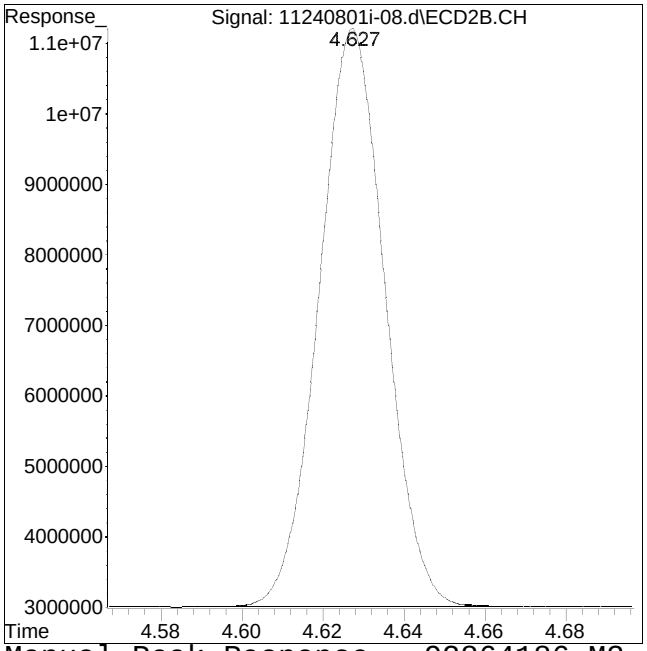
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #55: Dieldrin #2





Original Peak Response = 93011512 Manual Peak Response = 92864186 M3

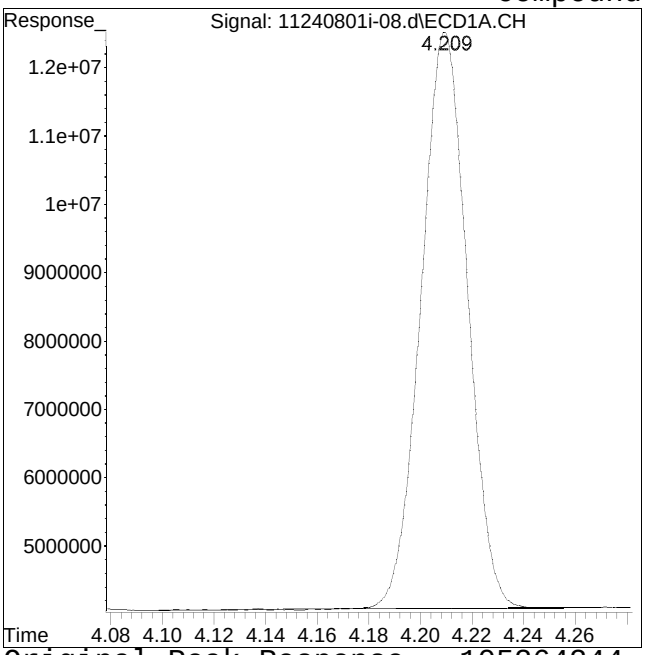
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

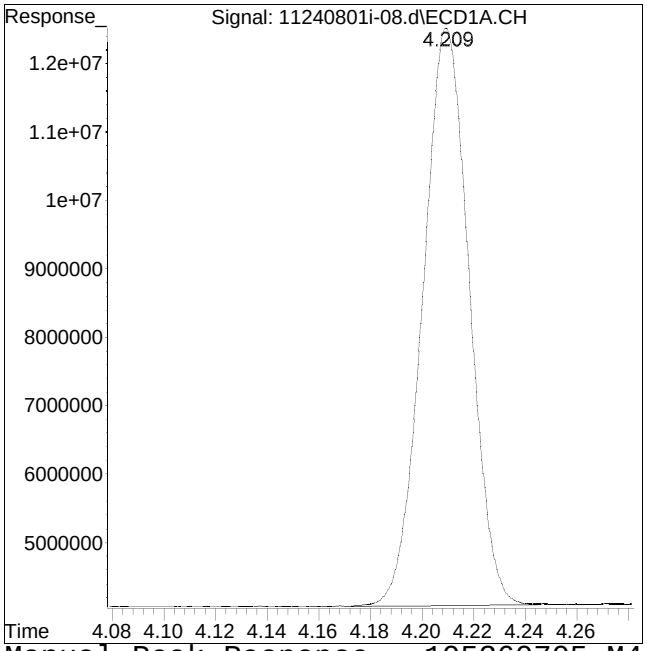
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #18: Endrin



Original Peak Response = 105264244



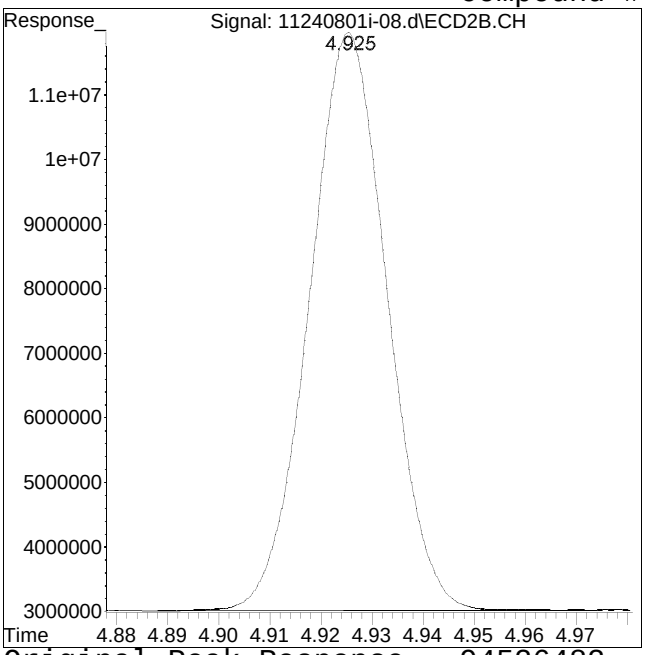
Manual Peak Response = 105360705 M4

M4 = Poor automated baseline construction.

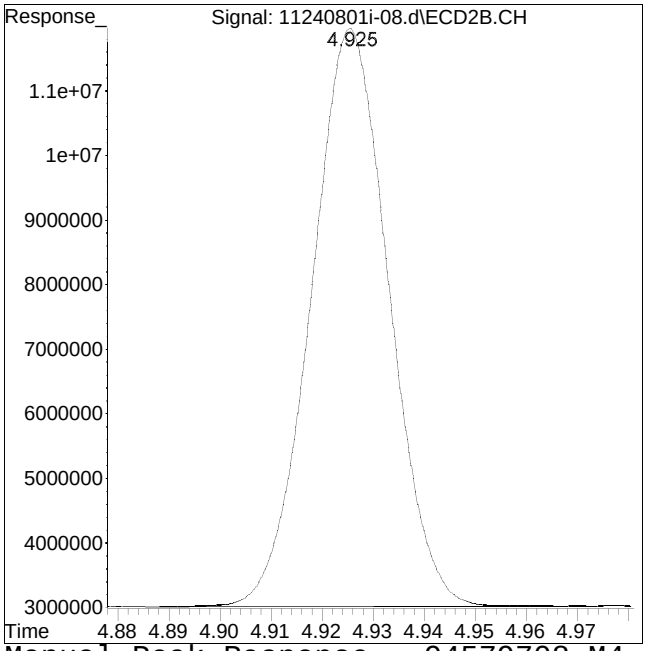
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #56: Endrin #2



Original Peak Response = 94526482



Manual Peak Response = 94579708 M4

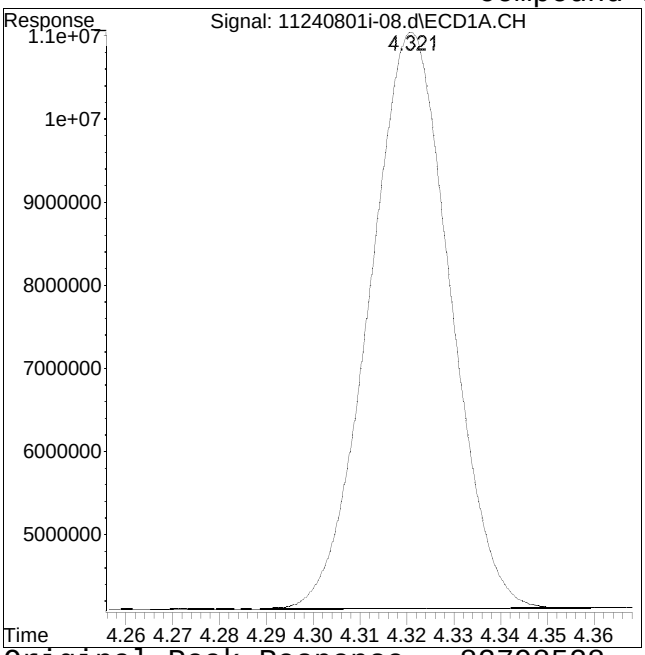
M4 = Poor automated baseline construction.

Manual Integration Report

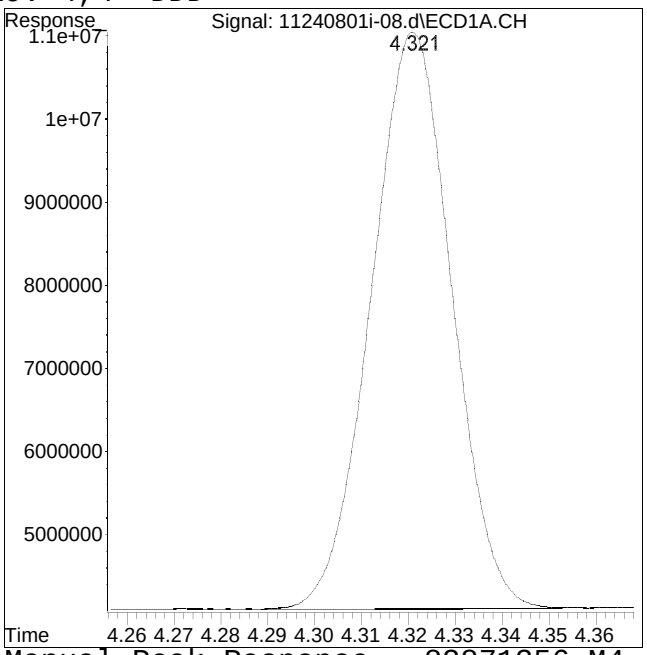
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #19: 4,4'-DDD



Original Peak Response = 82798528



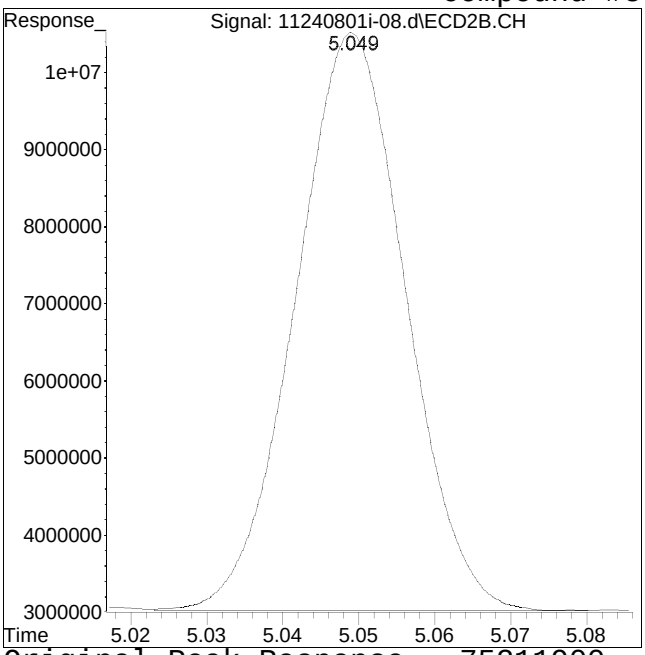
Manual Peak Response = 82871356 M4

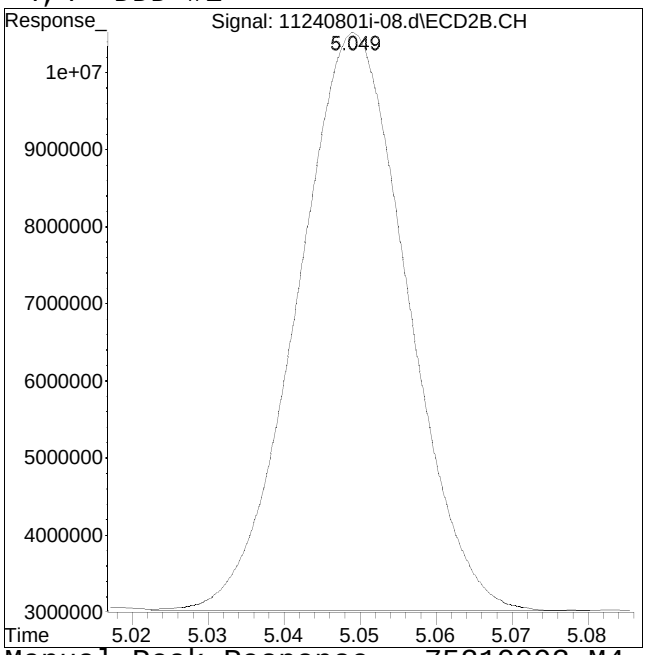
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #57: 4,4'-DDD #2





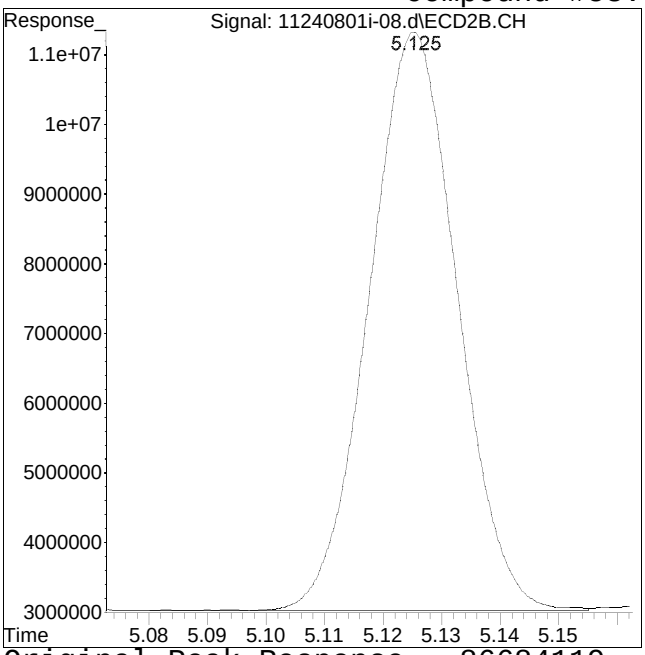
Original Peak Response = 75211900 Manual Peak Response = 75210993 M4
M4 = Poor automated baseline construction.

Manual Integration Report

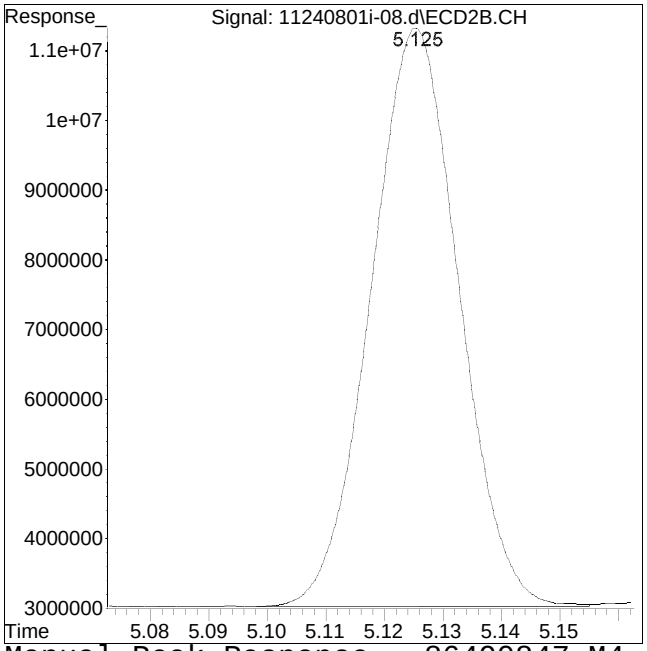
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #58: Endosulfan II #2



Original Peak Response = 86684119



Manual Peak Response = 86490847 M4

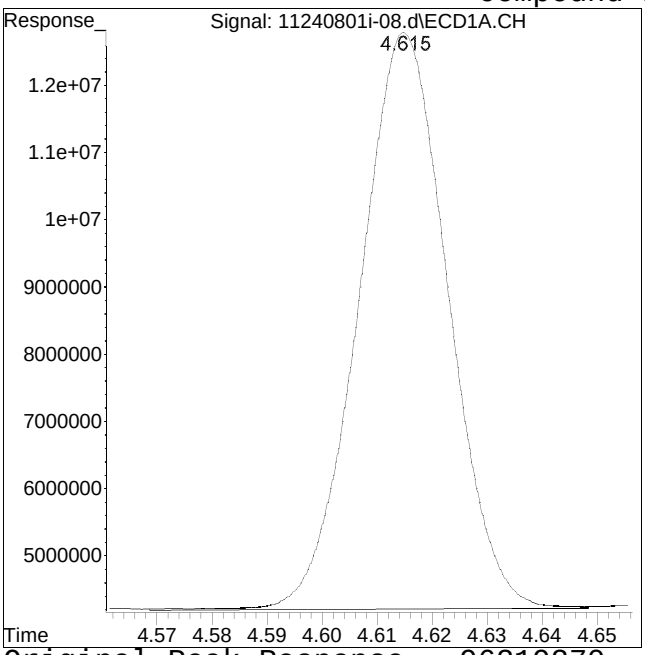
M4 = Poor automated baseline construction.

Manual Integration Report

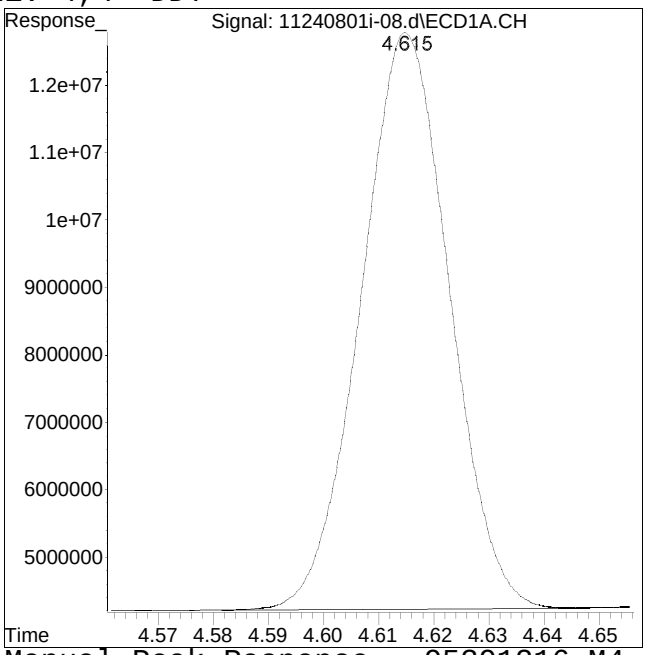
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #21: 4,4'-DDT



Original Peak Response = 96219270



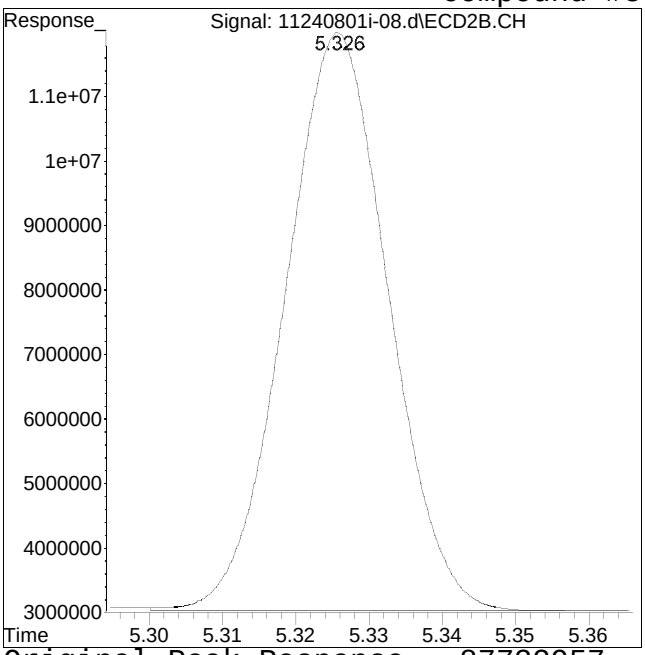
Manual Peak Response = 95391216 M4

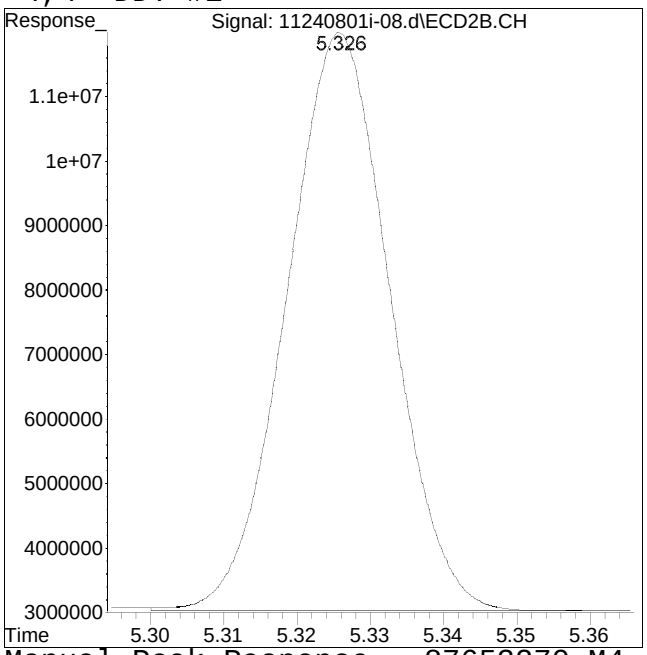
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #59: 4,4'-DDT #2



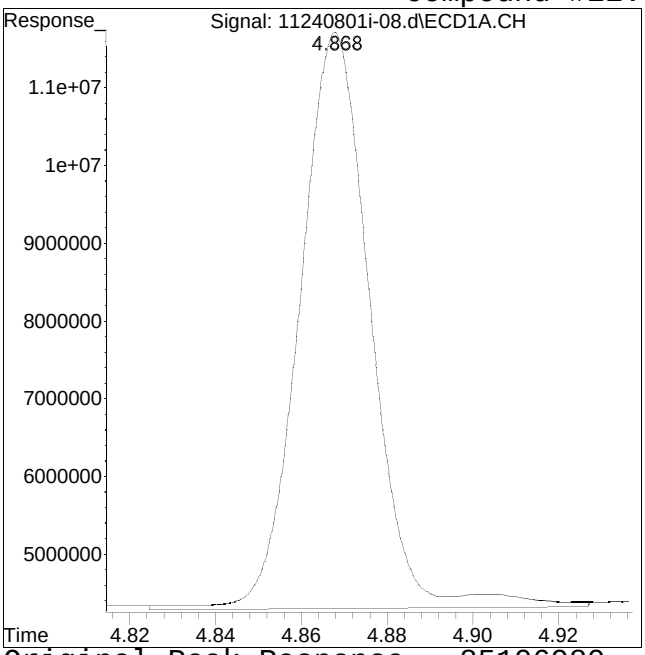


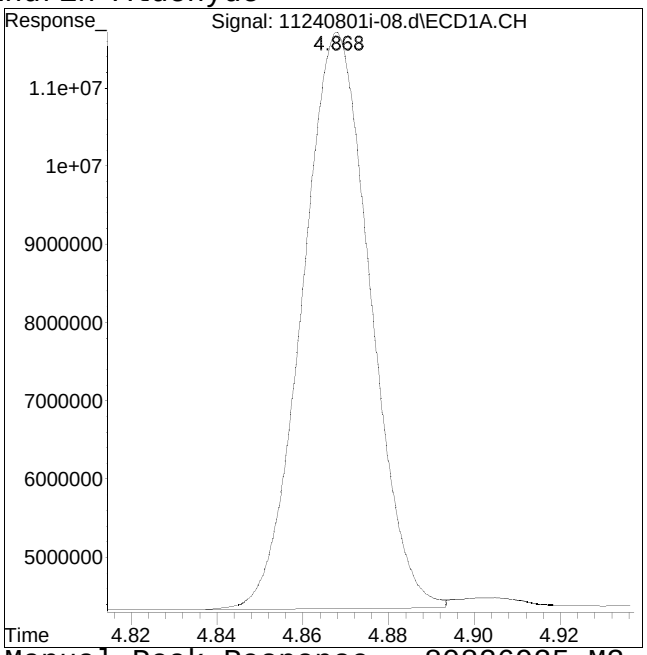
Original Peak Response = 87732957 Manual Peak Response = 87653270 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #22: Endrin Aldehyde



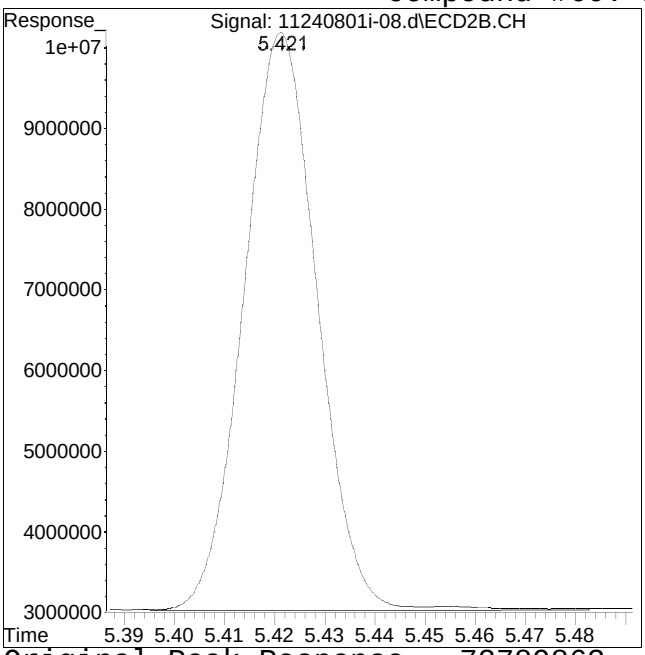


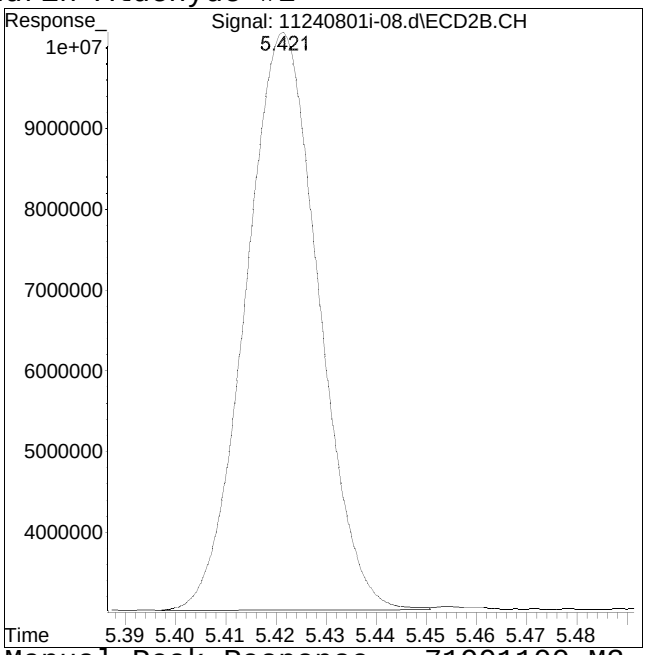
Original Peak Response = 85106980 Manual Peak Response = 80826935 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #60: Endrin Aldehyde #2



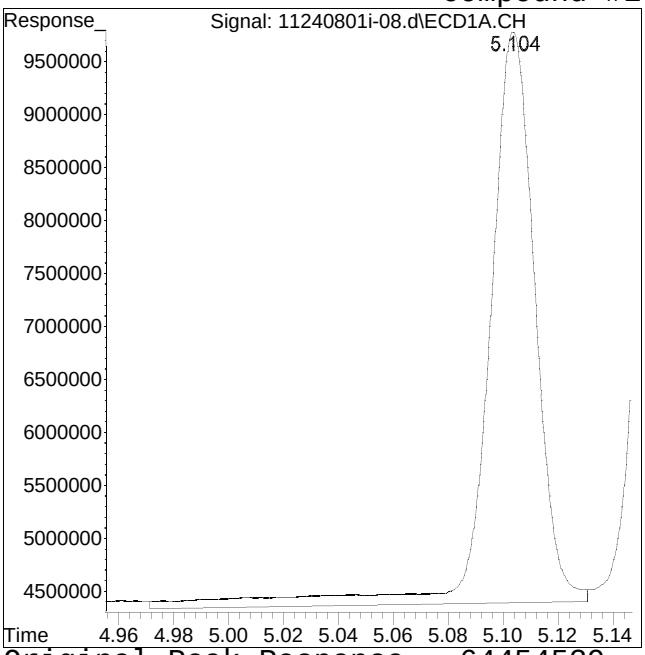


Original Peak Response = 72789863 Manual Peak Response = 71991100 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

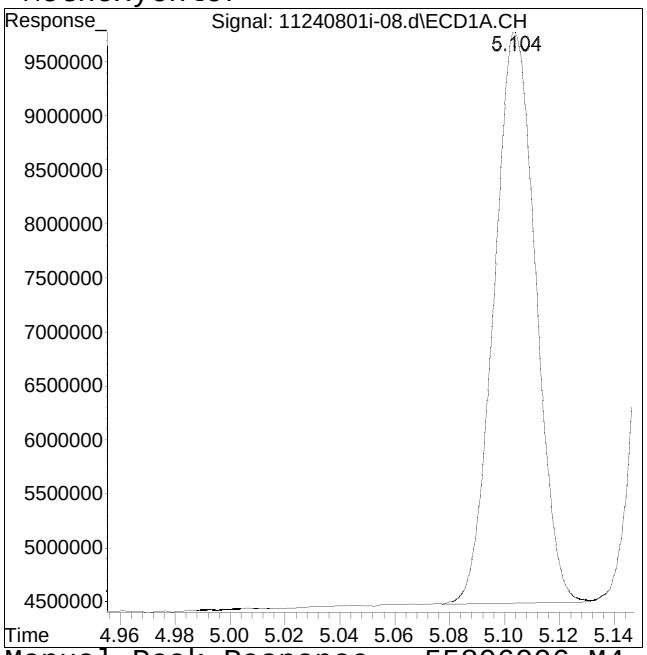
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #23: Methoxychlor



Original Peak Response = 64454539



Manual Peak Response = 55896006 M4

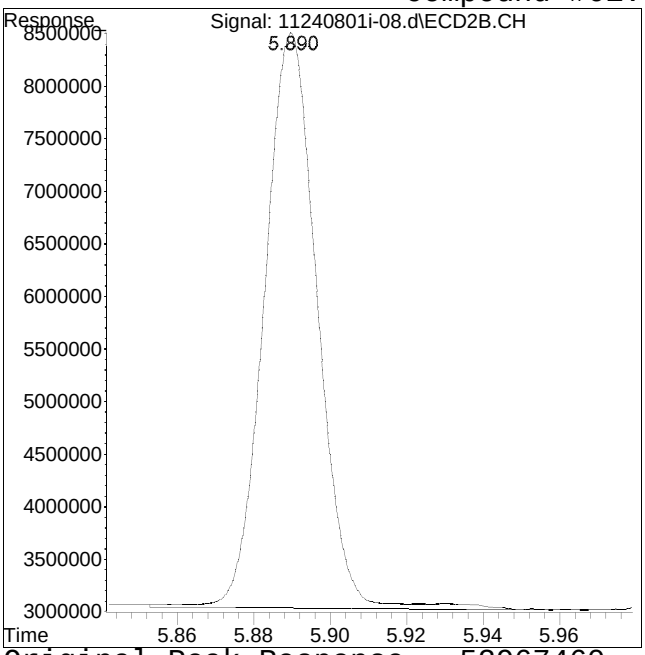
M4 = Poor automated baseline construction.

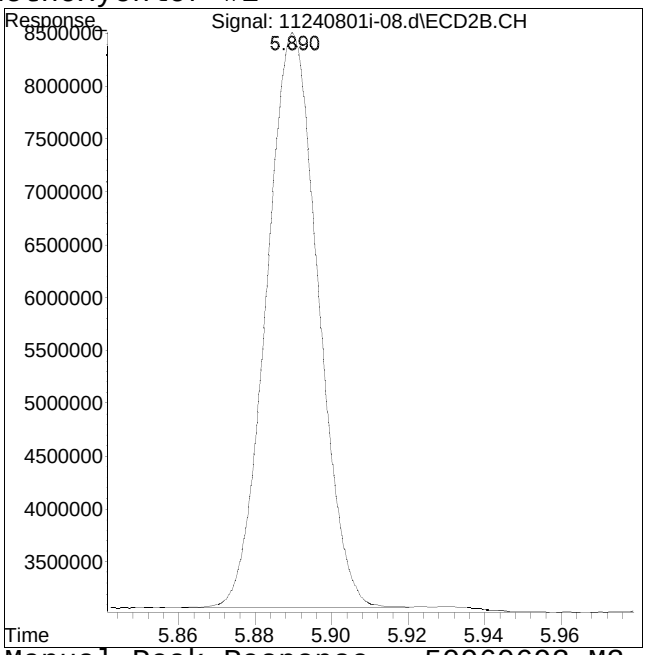
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #61: Methoxychlor #2





Original Peak Response = 52967460 Manual Peak Response = 50960693 M3

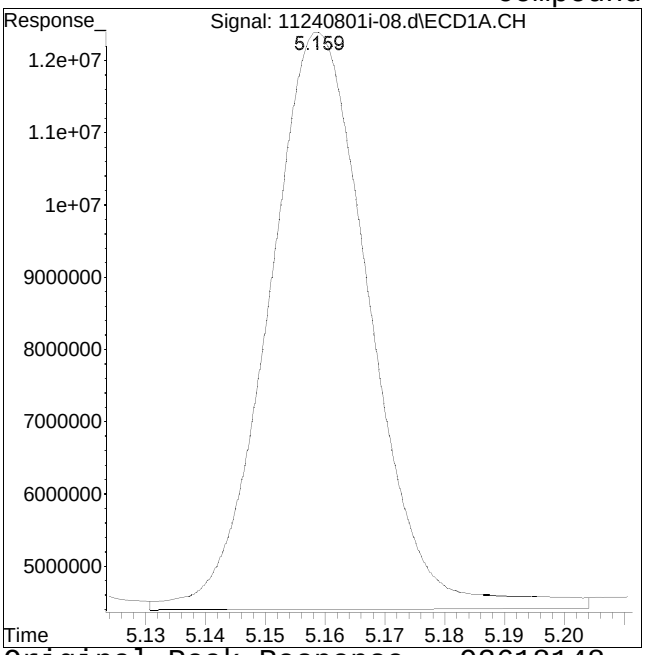
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

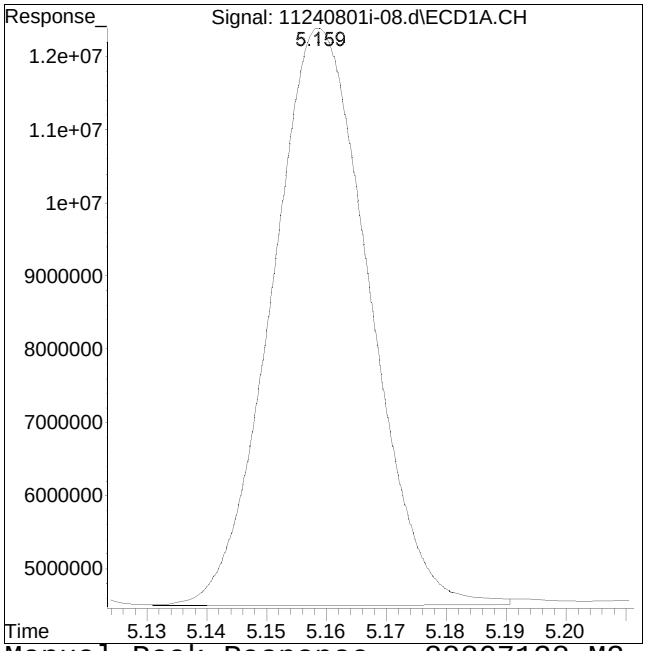
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #24: Mirex





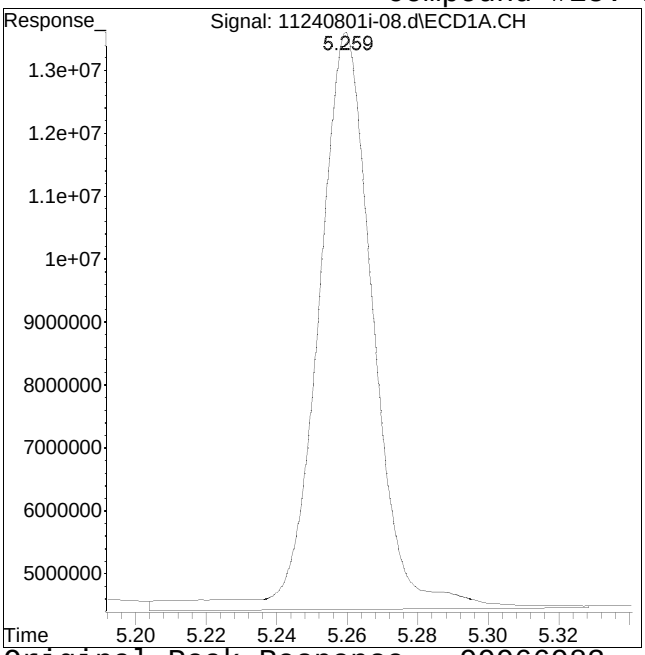
Original Peak Response = 93618148 Manual Peak Response = 88807138 M3

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

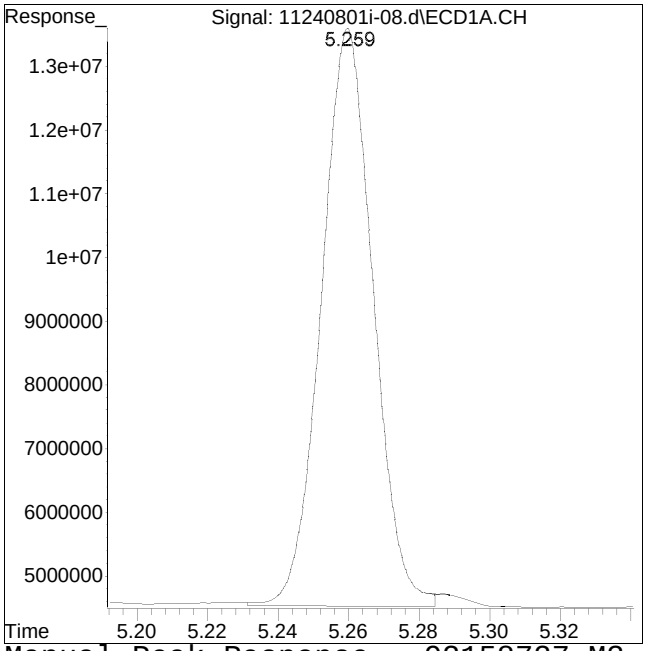
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 99966983



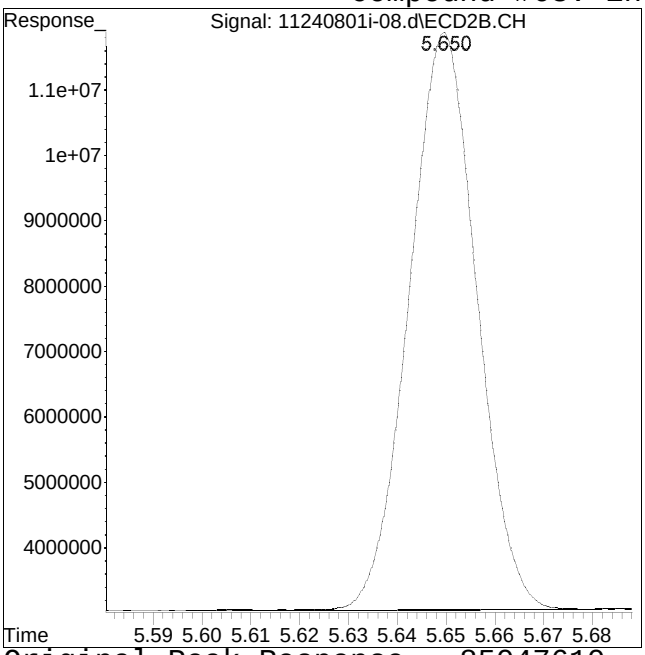
Manual Peak Response = 92158727 M3

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

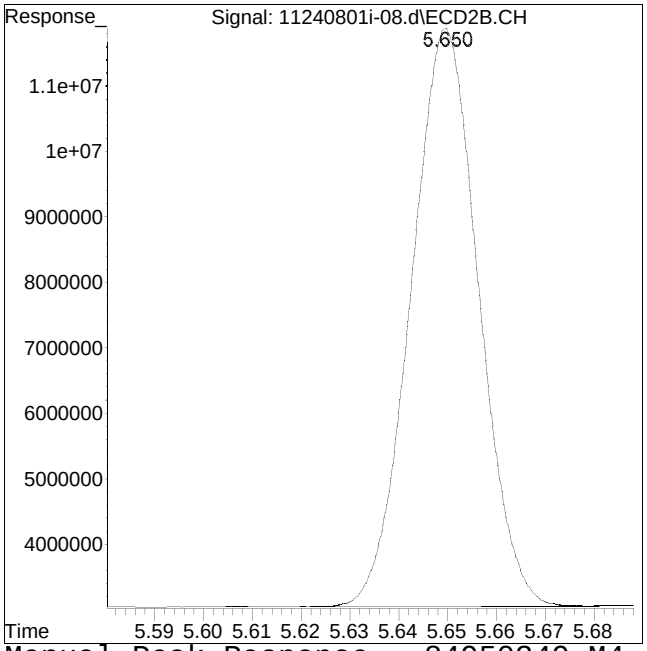
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 85047610



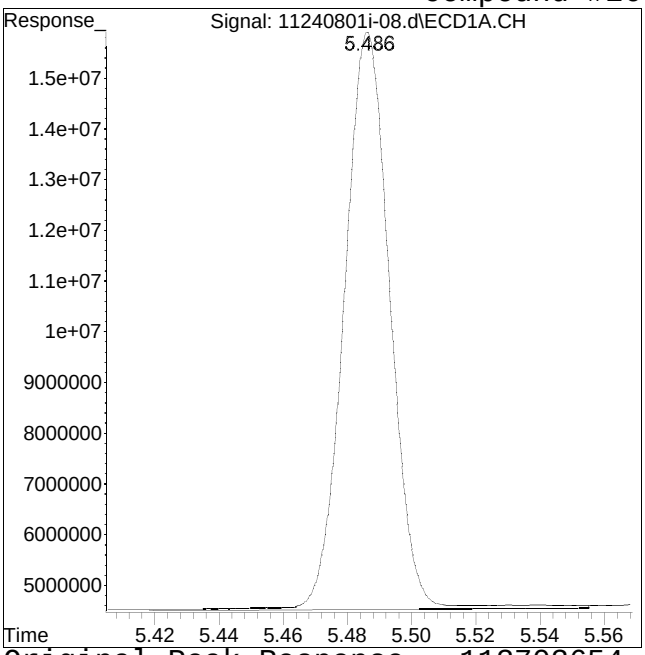
Manual Peak Response = 84950349 M4

M4 = Poor automated baseline construction.

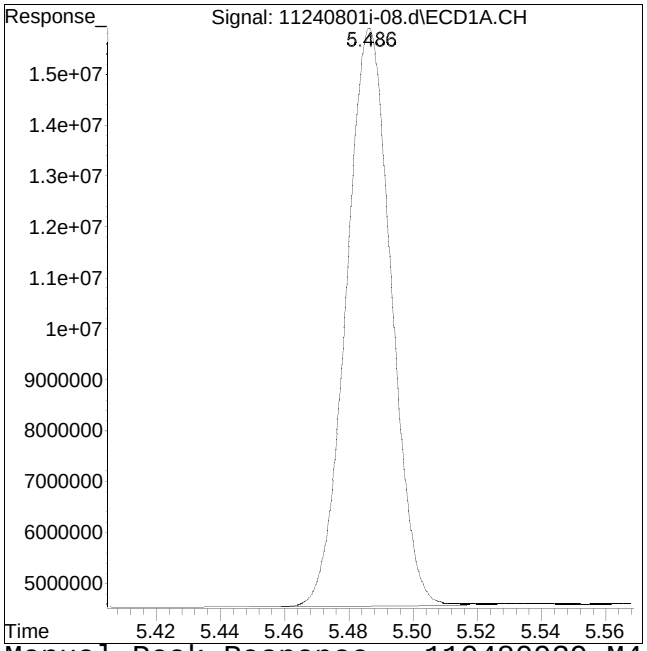
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #26: Endrin Ketone



Original Peak Response = 113703654



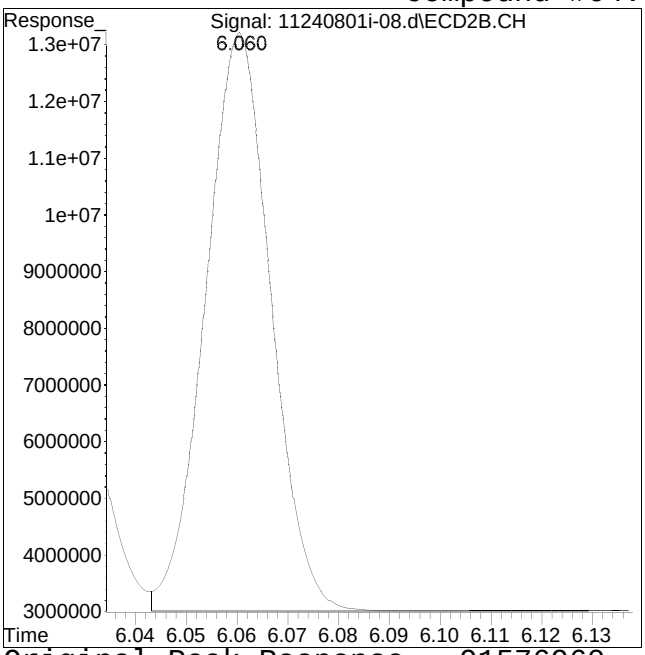
Manual Peak Response = 110480939 M4

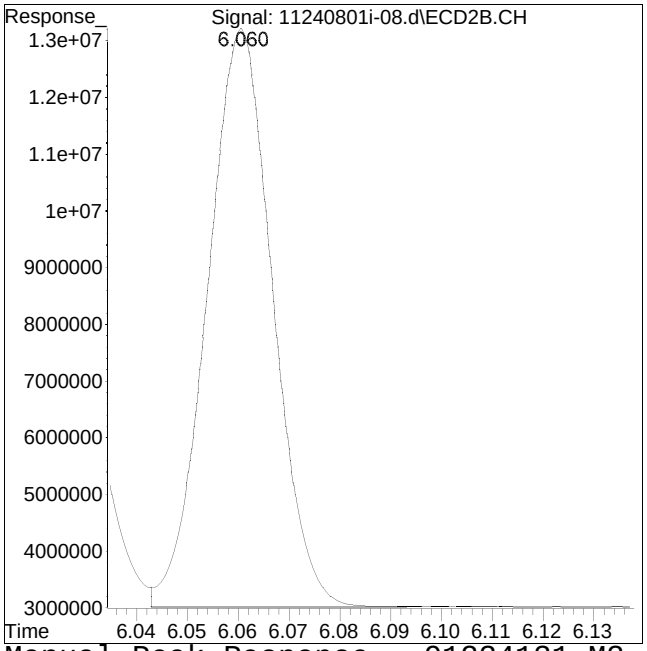
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #64: Endrin Ketone #2



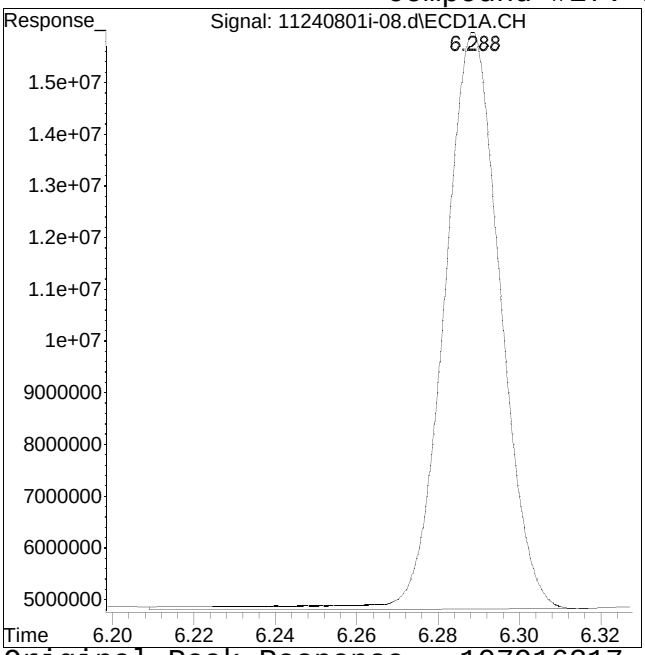


Original Peak Response = 91576960 Manual Peak Response = 91234131 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

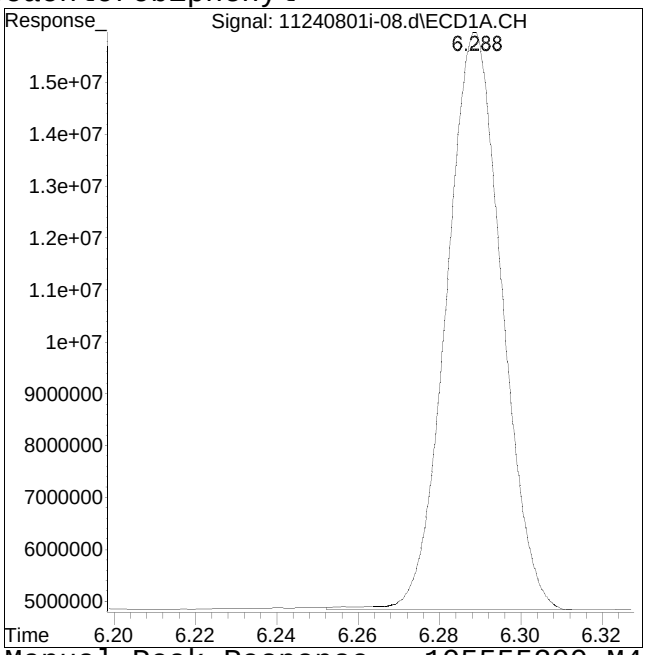
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 107916317



Manual Peak Response = 105555290 M4

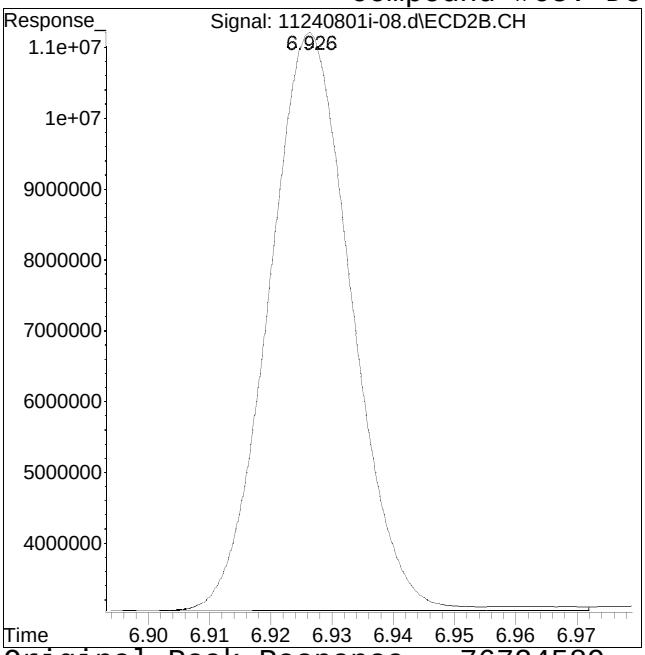
M4 = Poor automated baseline construction.

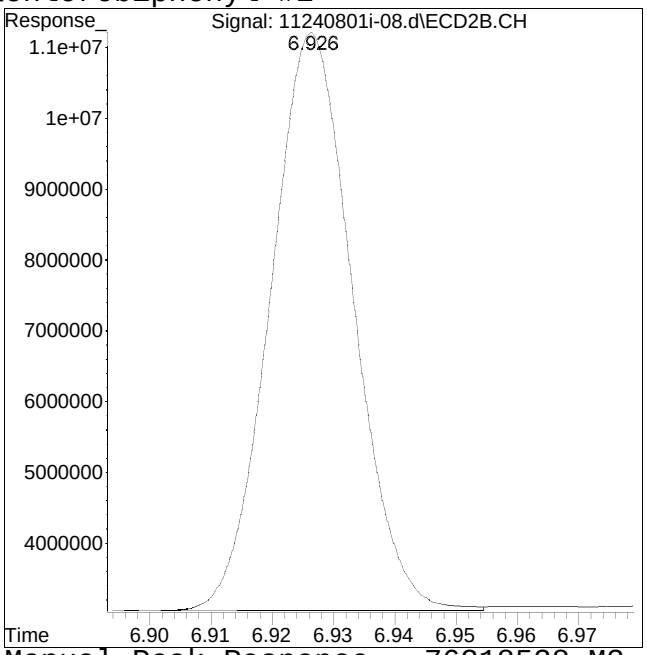
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 76724589 Manual Peak Response = 76218538 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:49
Operator : PEST11:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:03:26 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:03:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	236.1E6	187.7E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	492.0E6	407.5E6	NoCal M3	NoCal
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	6.288	6.920	489.2E6	351.4E6	NoCal M4	NoCal M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.178	634.9E6	430.2E6	NoCal M3	NoCal M4
4) t	alpha-BHC	1.963	2.271	745.5E6	633.1E6	NoCal M4	NoCal M4
5) t	gamma-BHC (l	2.165	2.556	687.9E6	572.6E6	NoCal M4	NoCal M4
6) t	beta-BHC	2.221	2.622	286.7E6	241.2E6	NoCal M4	NoCal M3
7) t	delta-BHC	2.350	2.889	694.2E6	581.2E6	NoCal M4	NoCal M4
8) t	Heptachlor	2.513	2.952	641.1E6	583.2E6	NoCal M4	NoCal M4
9) t	Aldrin	2.756	3.271	607.8E6	538.3E6	NoCal M4	NoCal M4
10) t	Alachlor	2.876	3.153	106.6E6	73985916	NoCal M4	NoCal M4
11) t	Chlorpyrifos	2.968	3.507	254.3E6	276.4E6	NoCal M4	NoCal

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:49
Operator : PEST11:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:03:26 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:03:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.883	567.8E6	507.8E6	NoCal M3	NoCal M4
13)	t	gamma-Chlord	3.425	4.104	508.9E6	459.6E6	NoCal M4	NoCal M4
14)	t	alpha-Chlord	3.559	4.274	577.6E6	510.2E6	NoCal M3	NoCal M4
15)	t	4,4'-DDE	3.656	4.473	579.1E6	505.9E6	NoCal M4	NoCal M4
16)	t	Endosulfan I	3.695	4.336	533.8E6	473.2E6	NoCal M3	NoCal M4
17)	t	Dieldrin	3.955	4.628	554.2E6	490.0E6	NoCal M4	NoCal M4
18)	t	Endrin	4.210	4.926	563.1E6	497.8E6	NoCal	NoCal M4
19)	t	4,4'-DDD	4.322	5.049	451.2E6	402.1E6	NoCal	NoCal M4
20)	t	Endosulfan I	4.452	5.125	505.7E6	433.2E6	NoCal	NoCal M4
21)	t	4,4'-DDT	4.616	5.326	511.5E6	460.7E6	NoCal M4	NoCal M4
22)	t	Endrin Aldeh	4.868	5.421	414.1E6	353.4E6	NoCal M4	NoCal M3
23)	t	Methoxychlor	5.104	5.890	267.0E6	236.7E6	NoCal M4	NoCal M4
24)	t	Mirex	5.160	6.023	415.8E6	345.7E6	NoCal M3	NoCal M4
25)	t	Endosulfan S	5.260	5.649	466.7E6	415.6E6	NoCal M3	NoCal M3
26)	t	Endrin Keton	5.487	6.060	564.8E6	452.3E6	NoCal M4	NoCal M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:49
Operator : PEST11:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:03:26 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:03:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

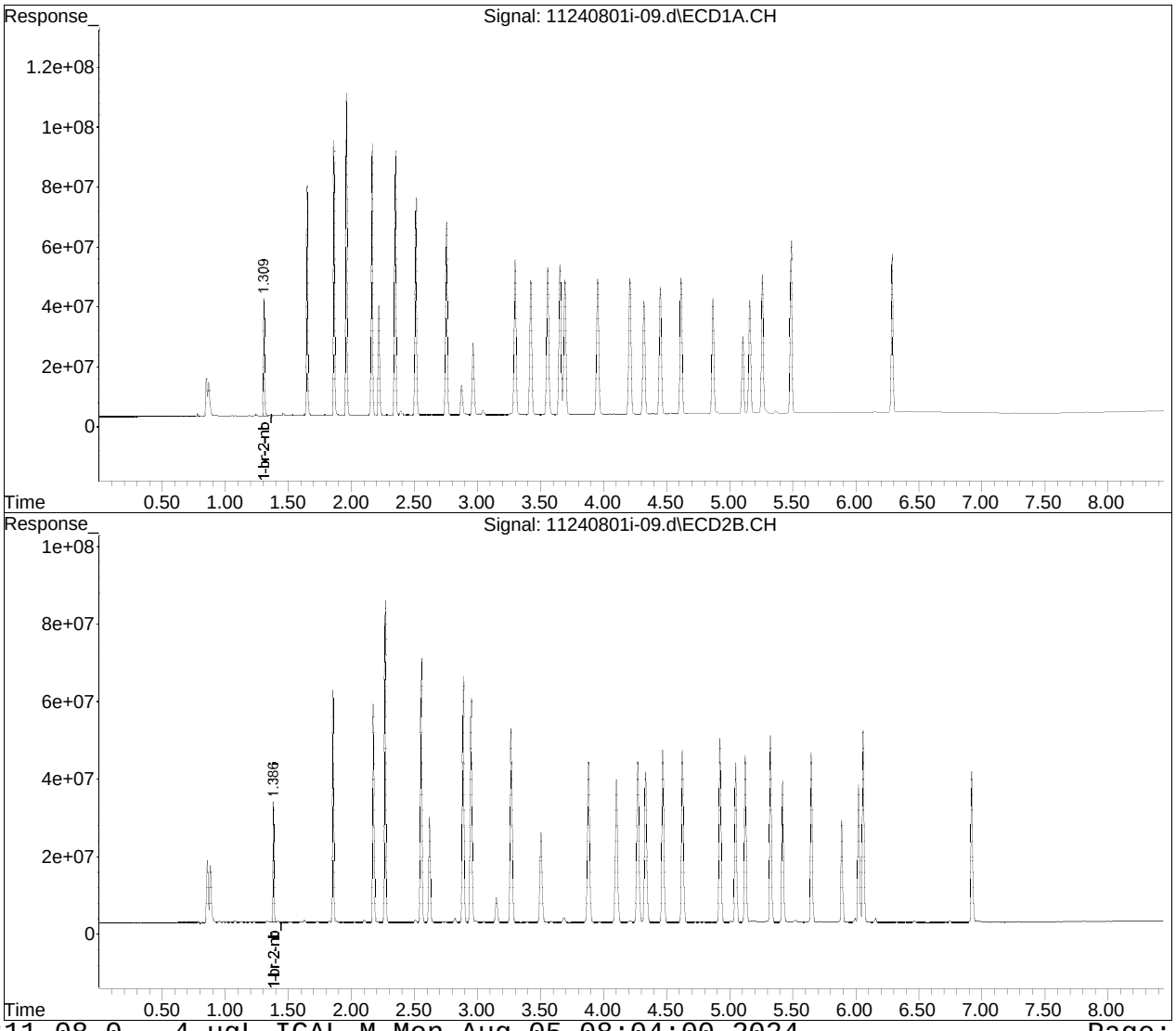
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:49
Operator : PEST11:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:03:26 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:03:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

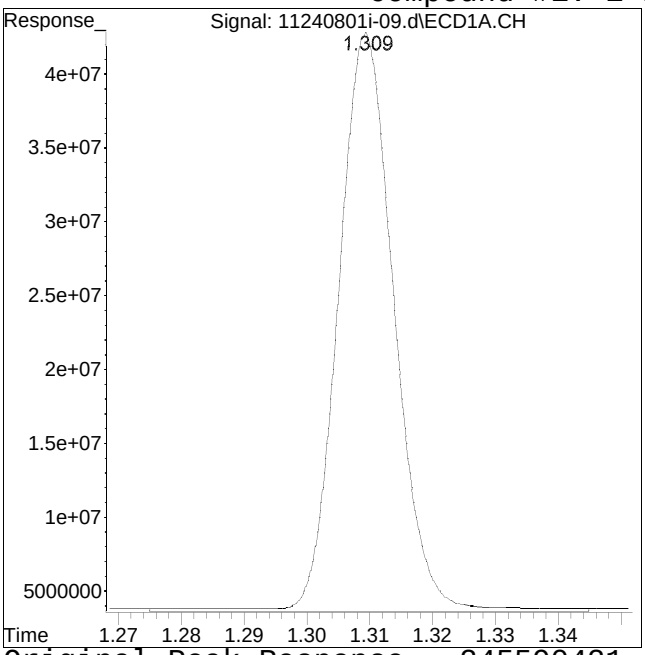


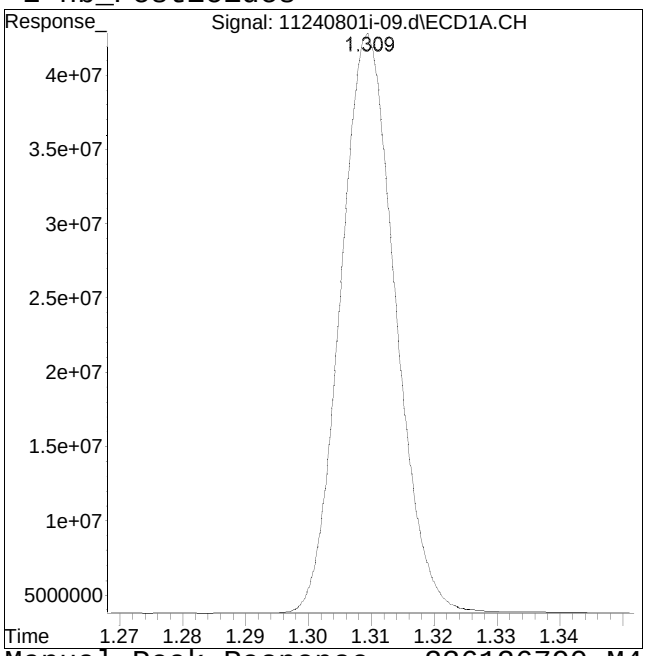
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #1: 1-br-2-nb_Pesticides





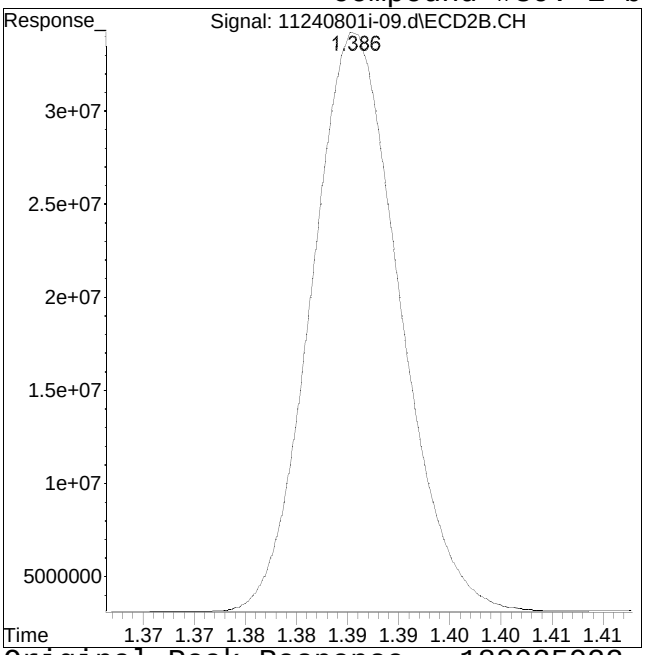
Original Peak Response = 245590421 Manual Peak Response = 236126790 M4
M4 = Poor automated baseline construction.

Manual Integration Report

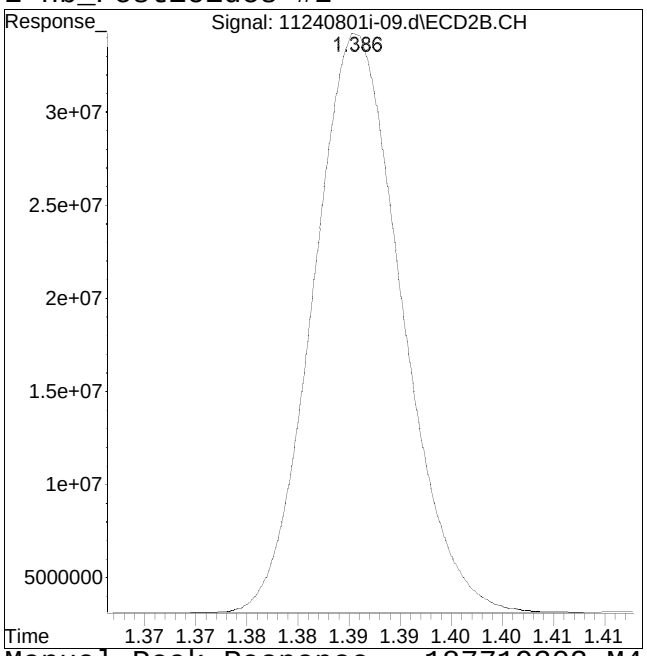
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 188025922



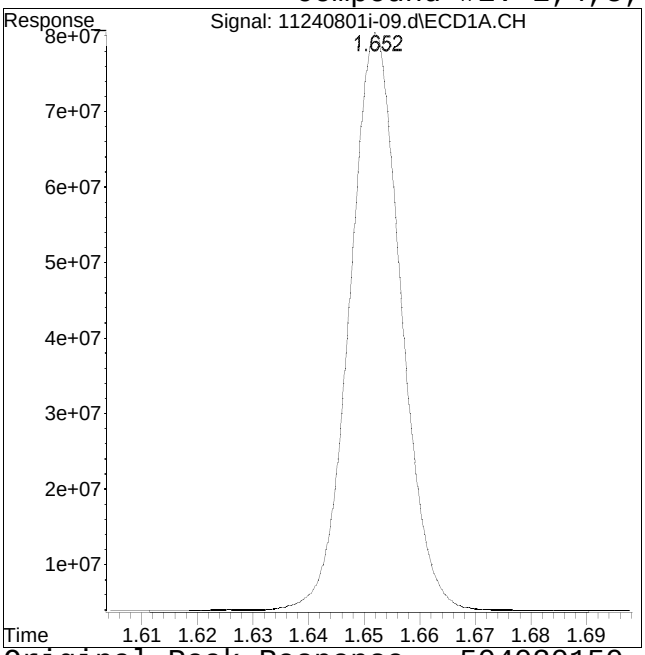
Manual Peak Response = 187719302 M4

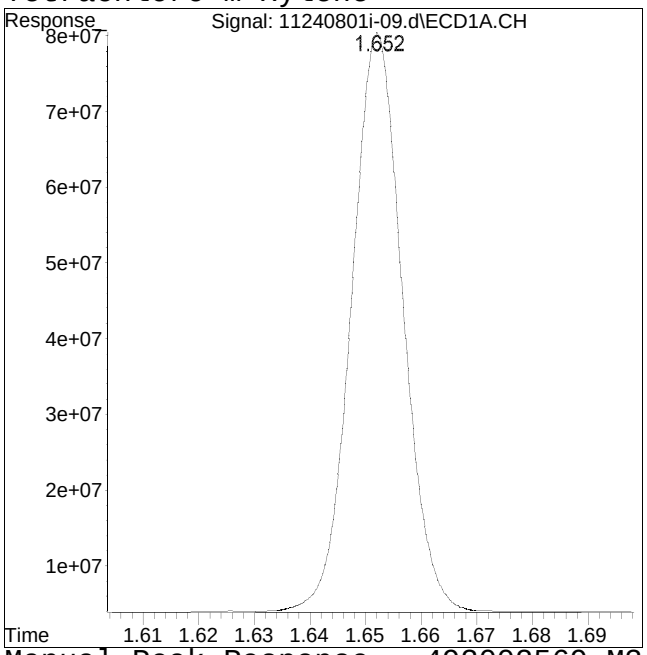
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



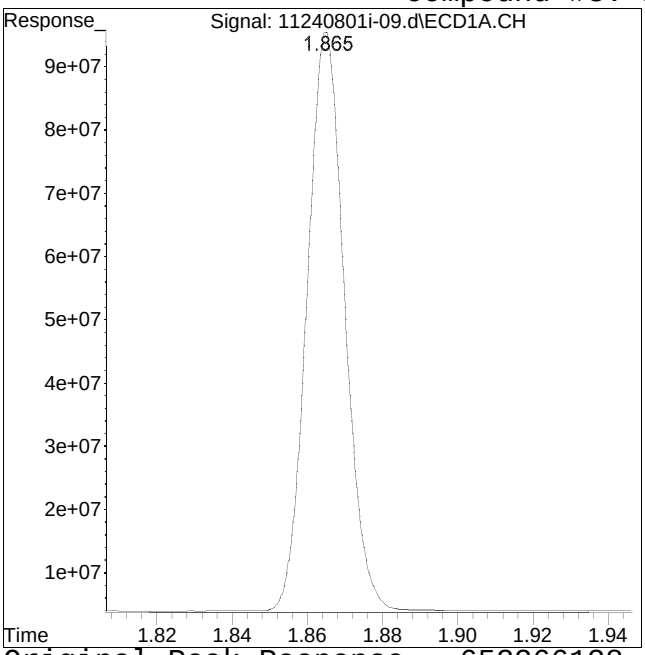


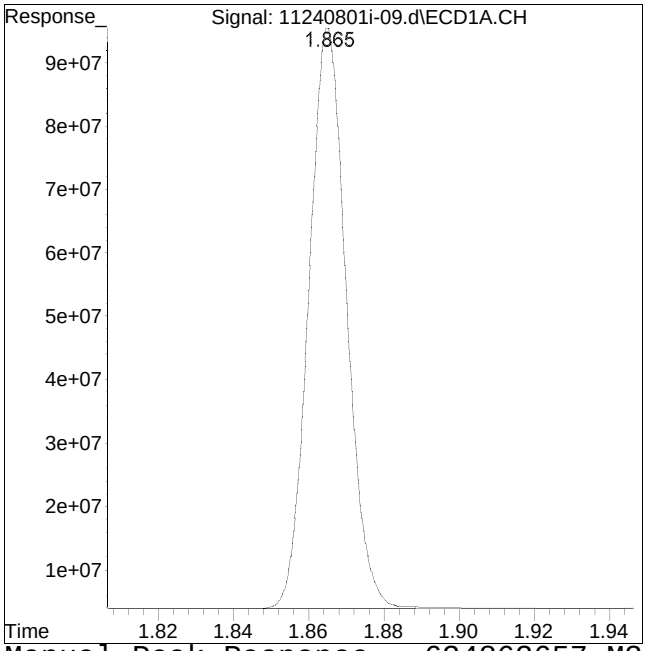
Original Peak Response = 504030150 Manual Peak Response = 492002569 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #3: Hexachlorobenzene





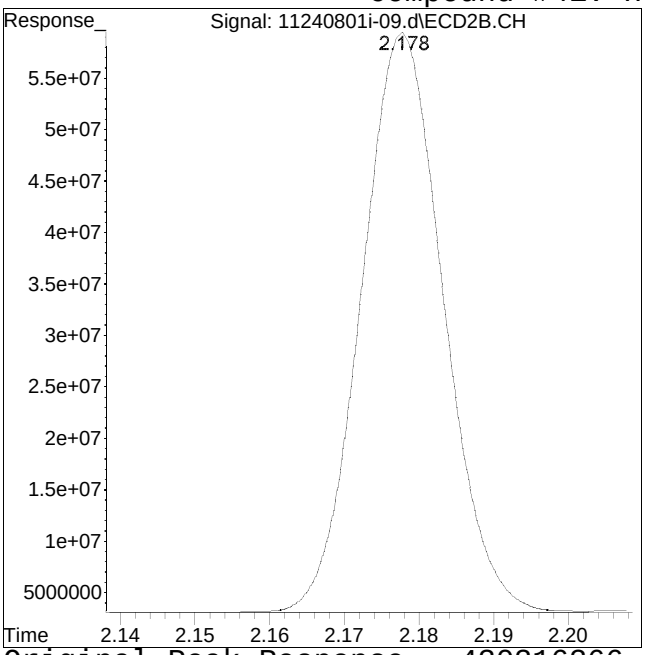
Original Peak Response = 652266128 Manual Peak Response = 634863657 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

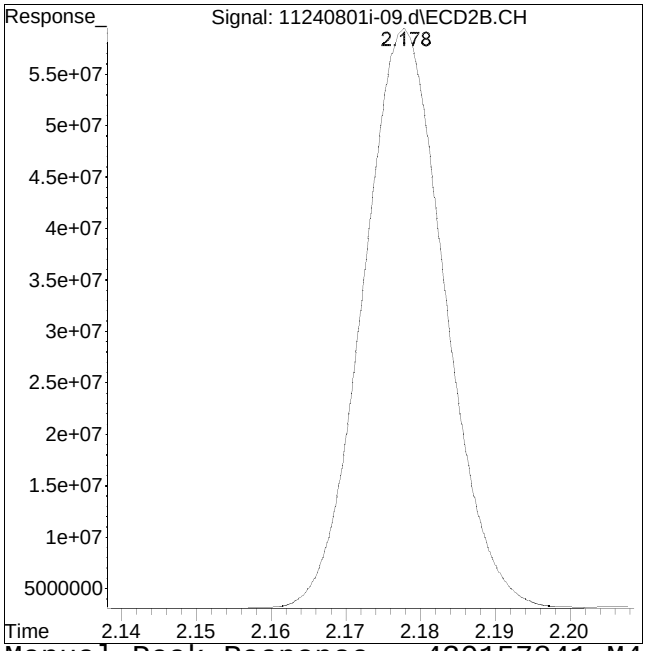
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #41: Hexachlorobenzene #2





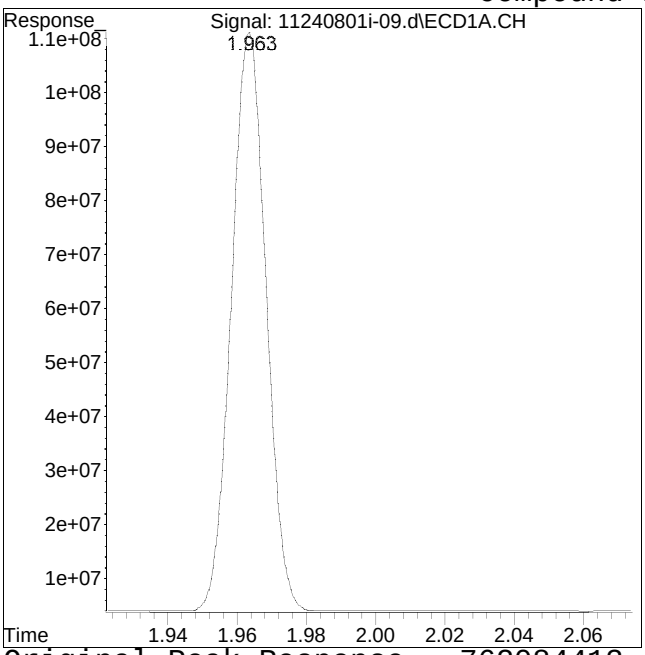
Original Peak Response = 430316366 Manual Peak Response = 430157841 M4
M4 = Poor automated baseline construction.

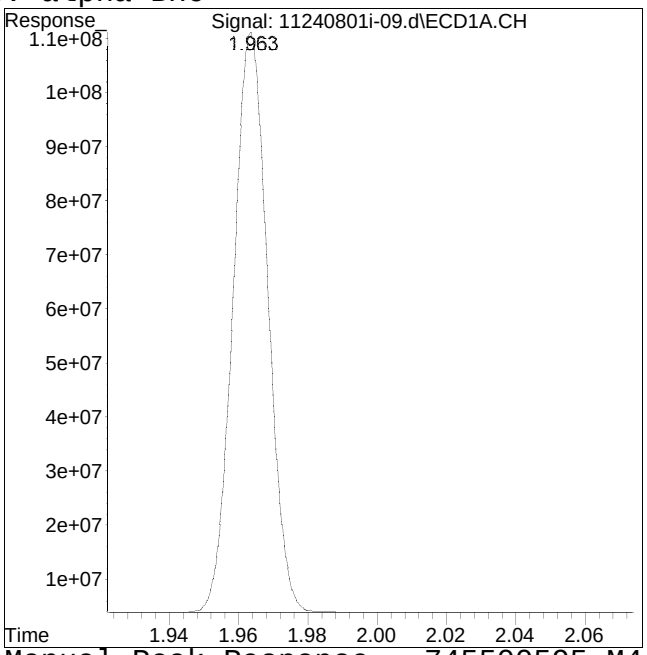
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #4: alpha-BHC



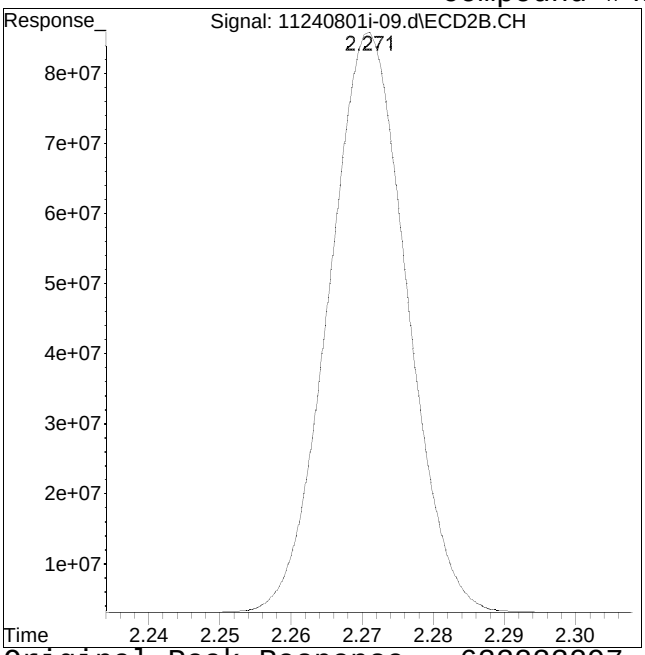


Original Peak Response = 762084413 Manual Peak Response = 745500595 M4
M4 = Poor automated baseline construction.

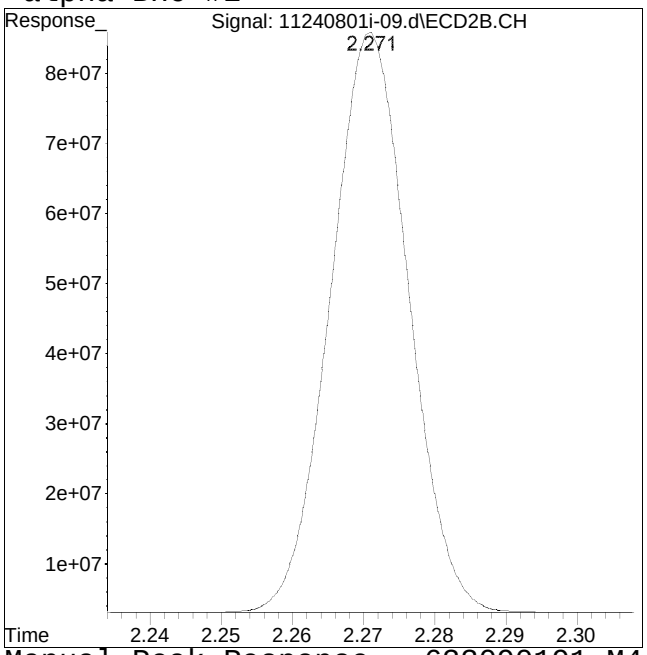
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #42: alpha-BHC #2



Original Peak Response = 633233297

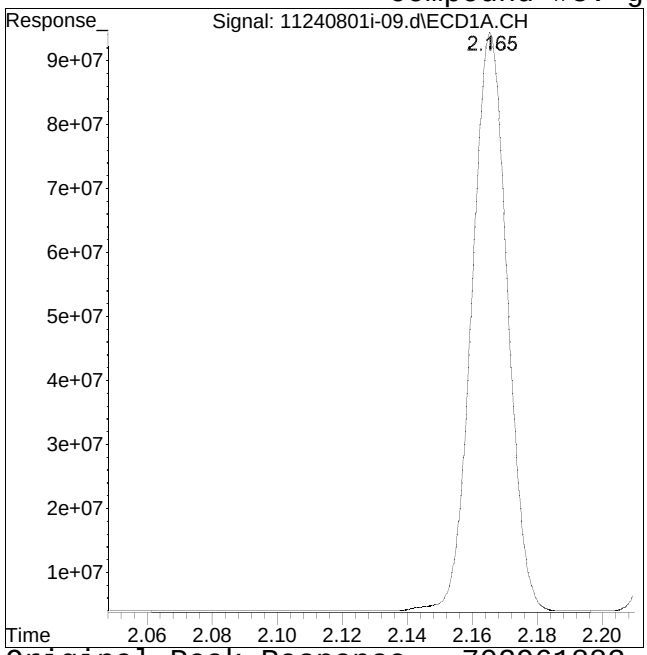


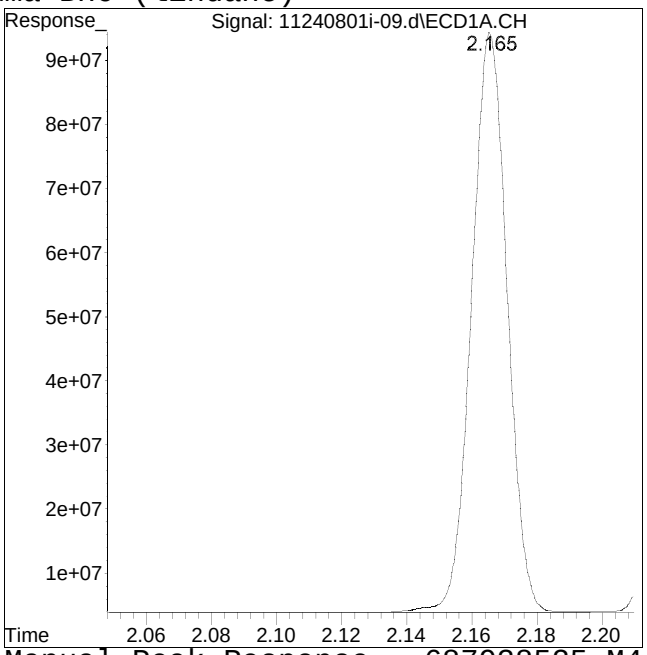
Manual Peak Response = 633090191 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #5: gamma-BHC (lindane)



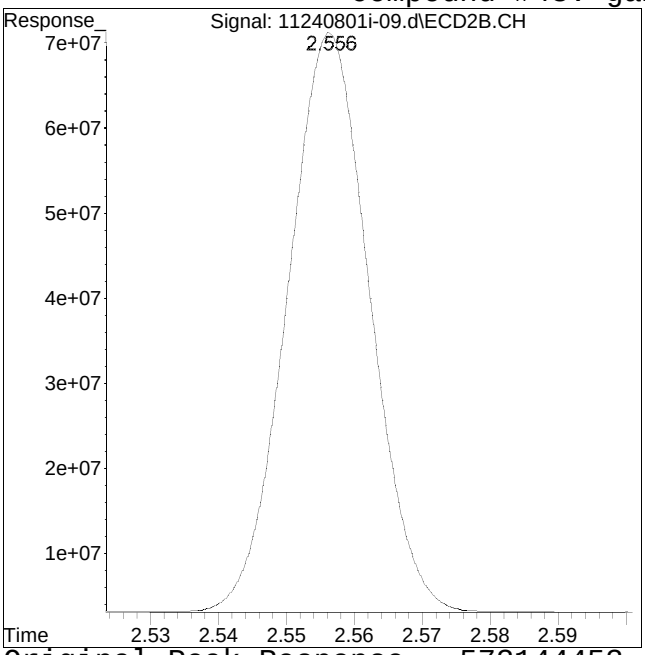


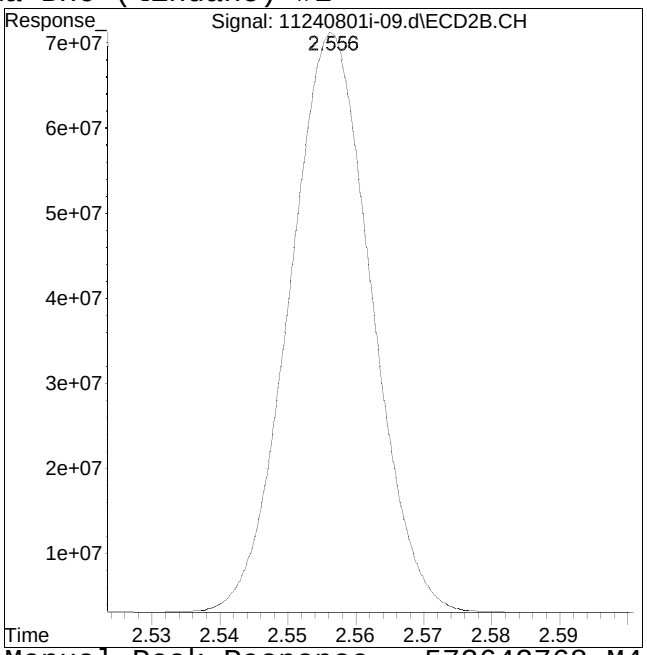
Original Peak Response = 702961883 Manual Peak Response = 687938525 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #43: gamma-BHC (lindane) #2





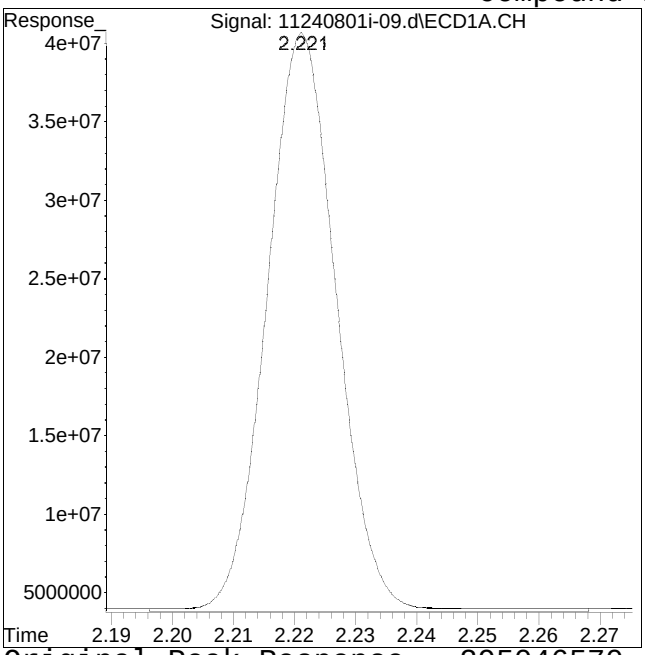
Original Peak Response = 573144453 Manual Peak Response = 572642768 M4
M4 = Poor automated baseline construction.

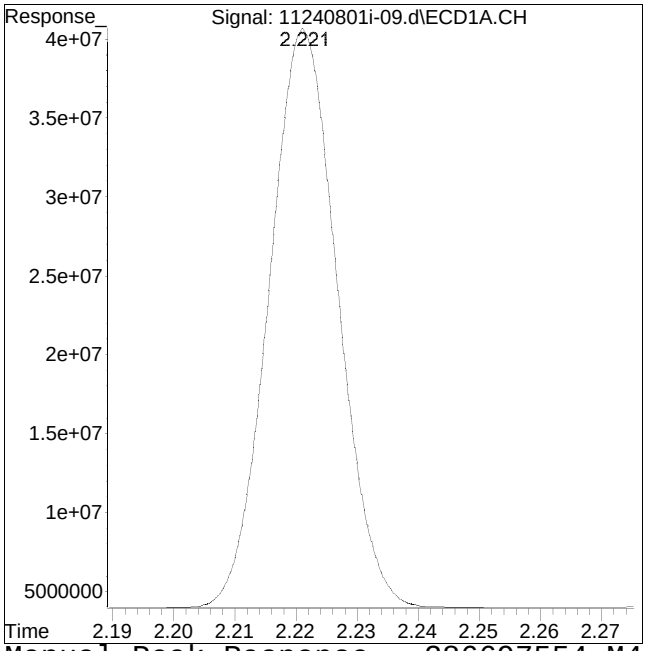
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #6: beta-BHC



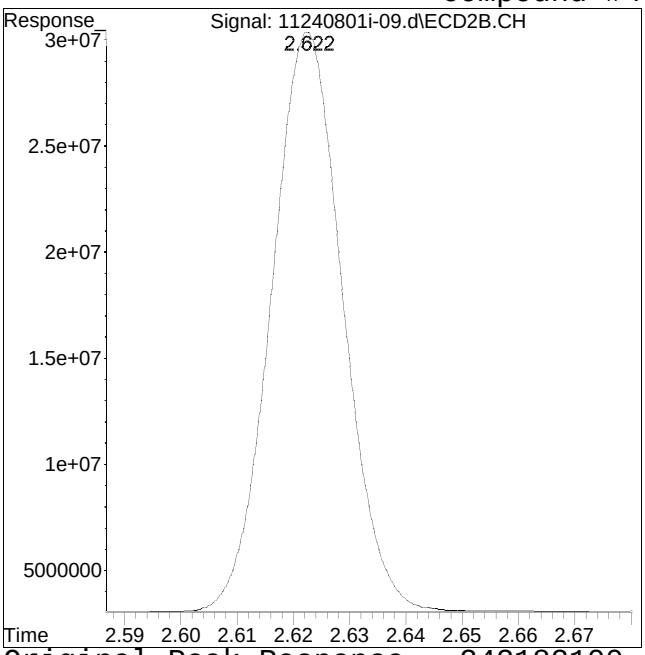


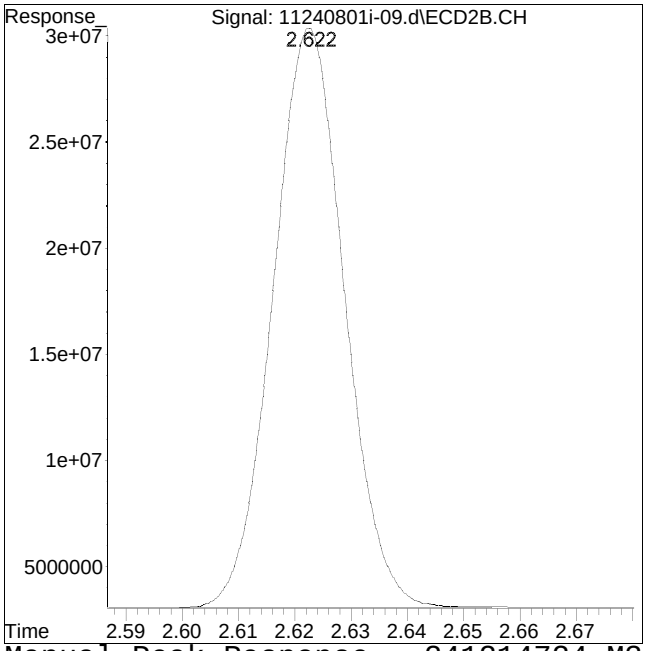
Original Peak Response = 295046570 Manual Peak Response = 286697554 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #44: beta-BHC #2



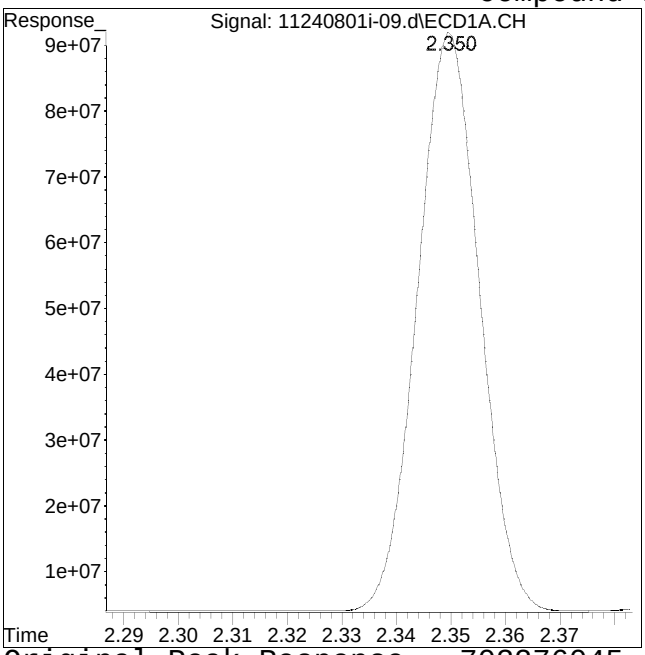


Original Peak Response = 242182100 Manual Peak Response = 241214724 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

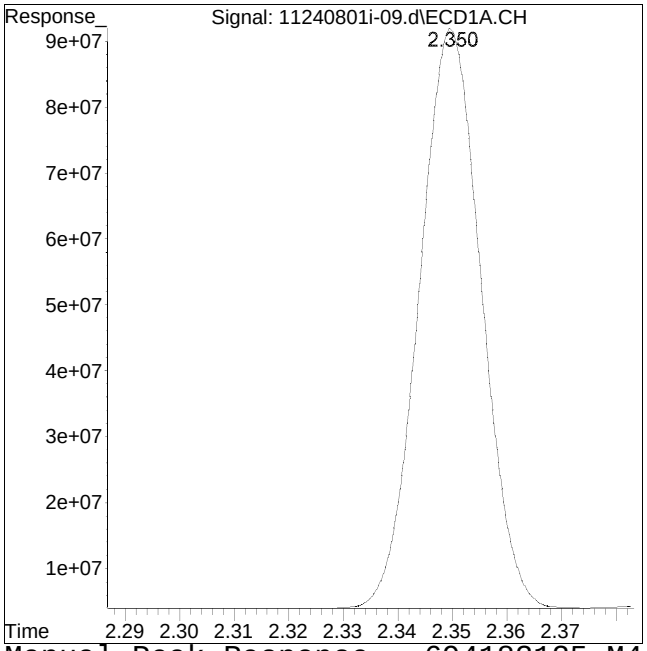
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #7: delta-BHC



Original Peak Response = 703276045



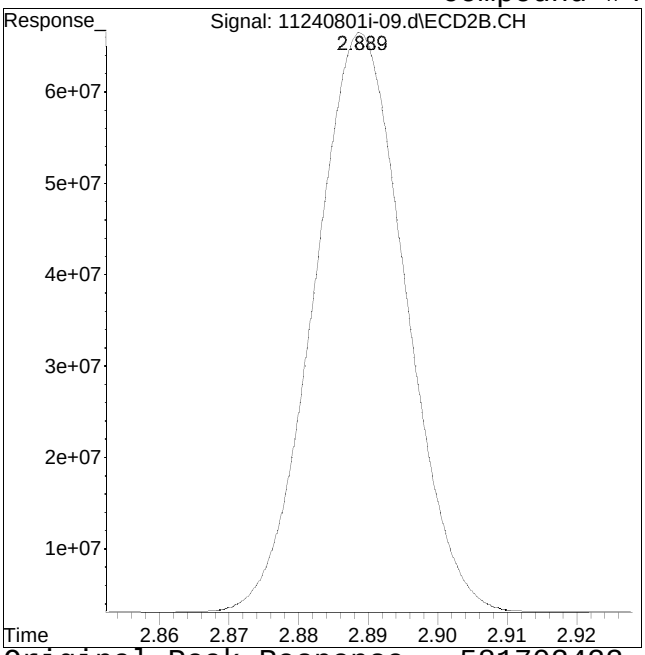
Manual Peak Response = 694183125 M4

M4 = Poor automated baseline construction.

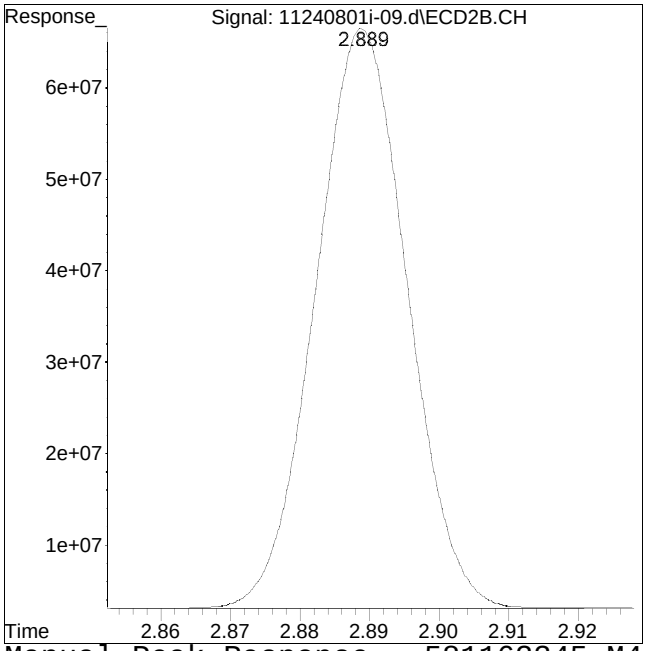
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #45: delta-BHC #2



Original Peak Response = 581702423



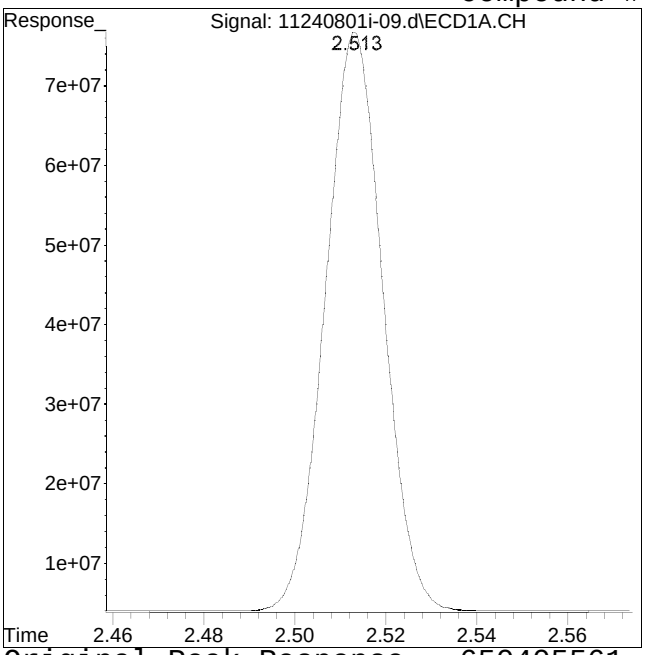
Manual Peak Response = 581163345 M4

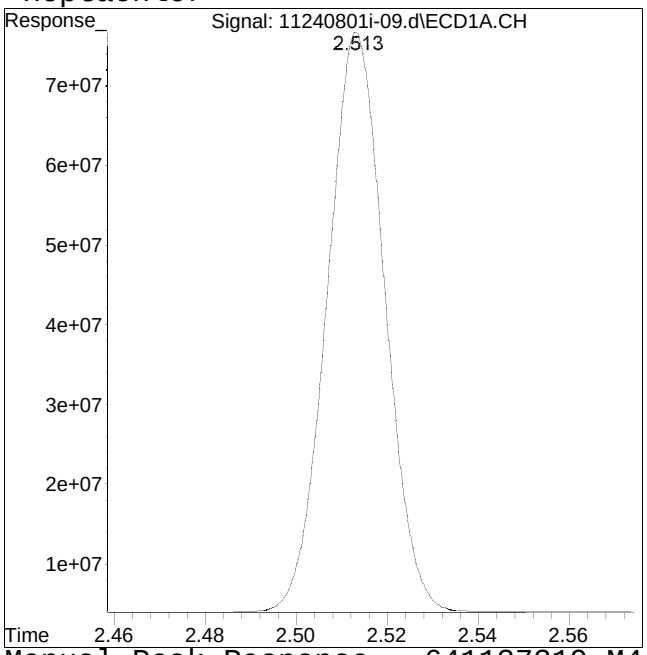
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #8: Heptachlor



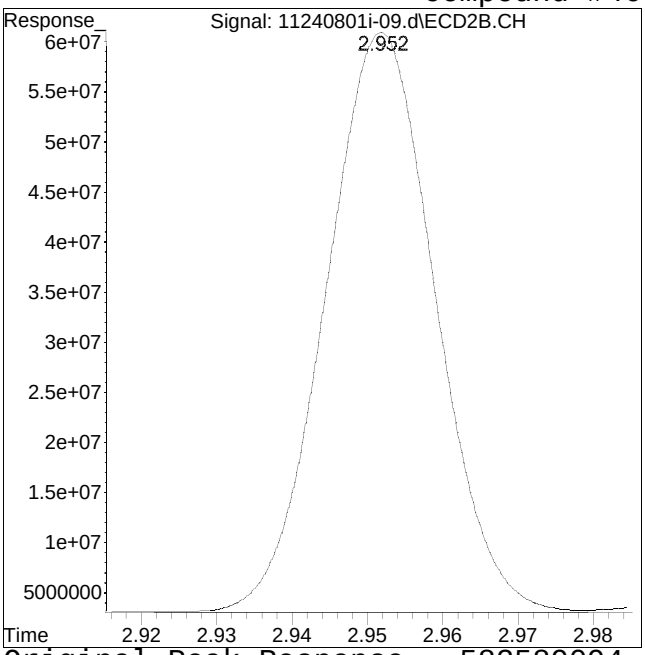


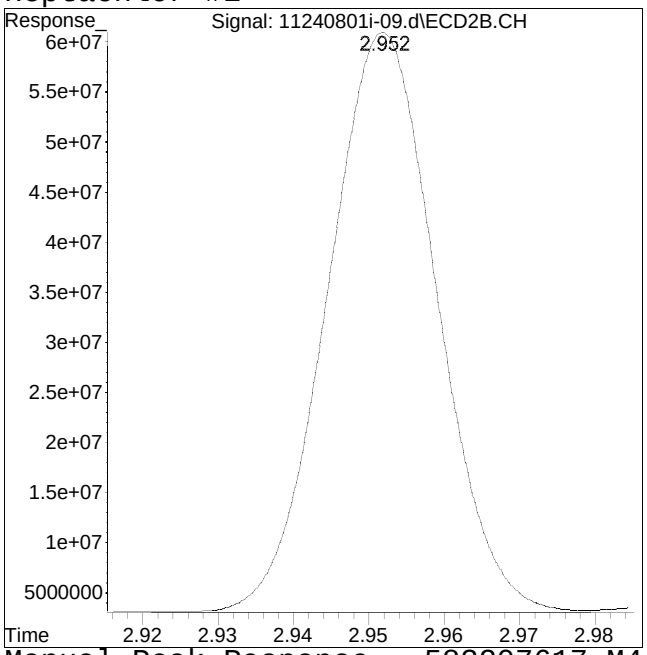
Original Peak Response = 650405561 Manual Peak Response = 641137319 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #46: Heptachlor #2





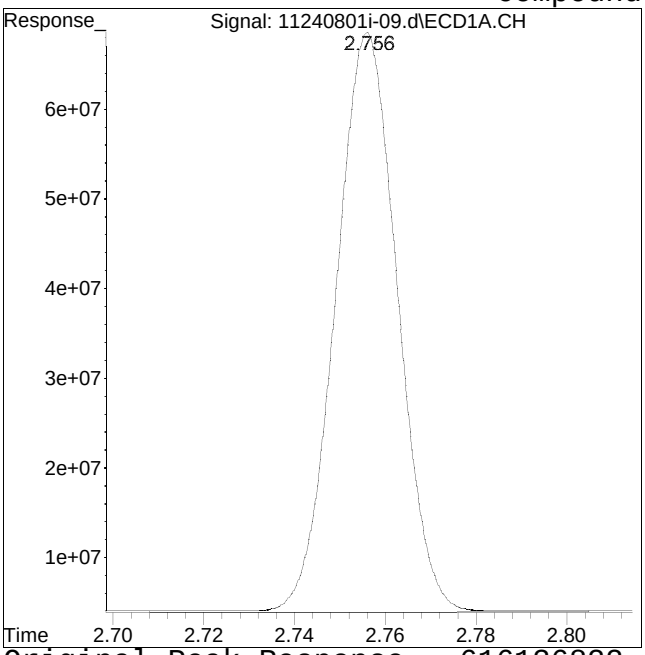
Original Peak Response = 583589094 Manual Peak Response = 583207617 M4
M4 = Poor automated baseline construction.

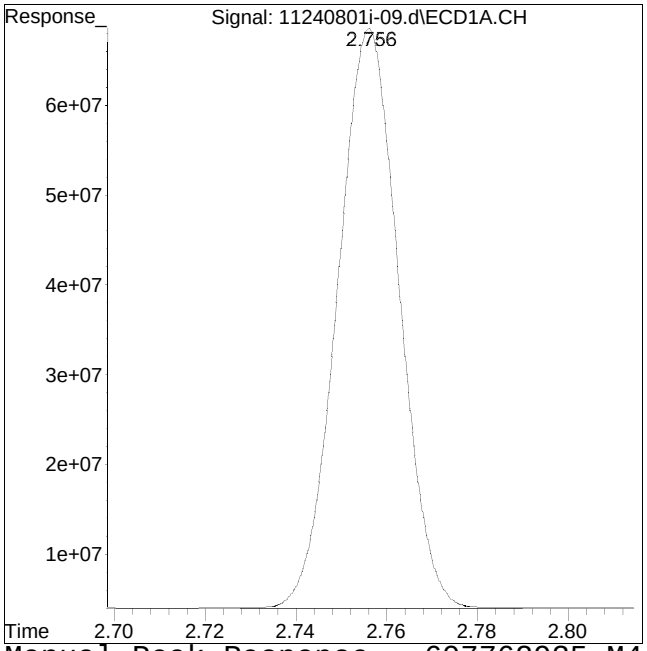
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #9: Aldrin



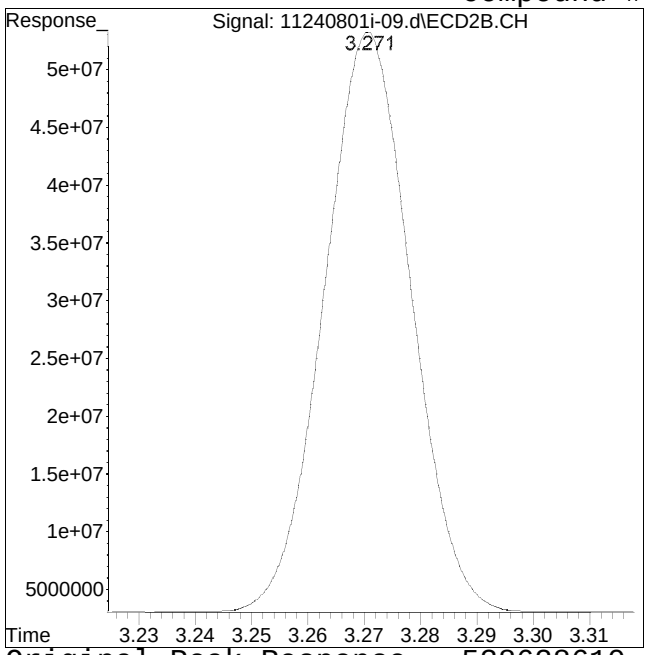


Original Peak Response = 616136822 Manual Peak Response = 607762935 M4
M4 = Poor automated baseline construction.

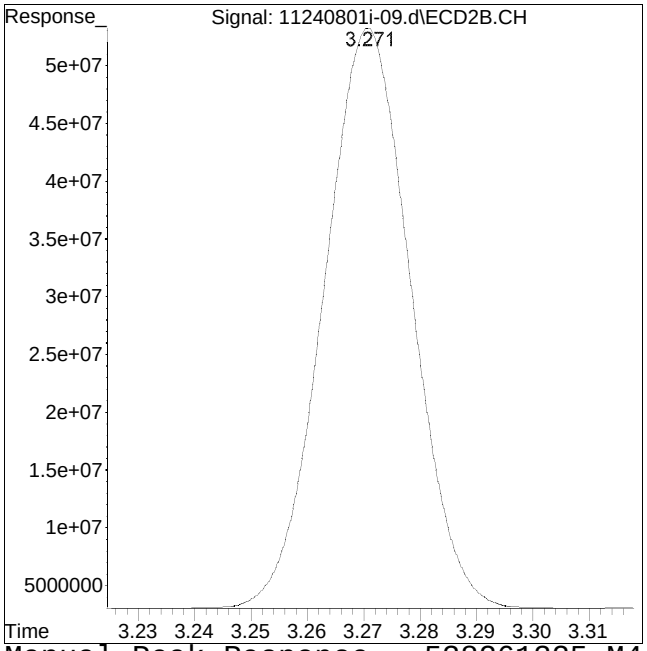
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #47: Aldrin #2



Original Peak Response = 538628610



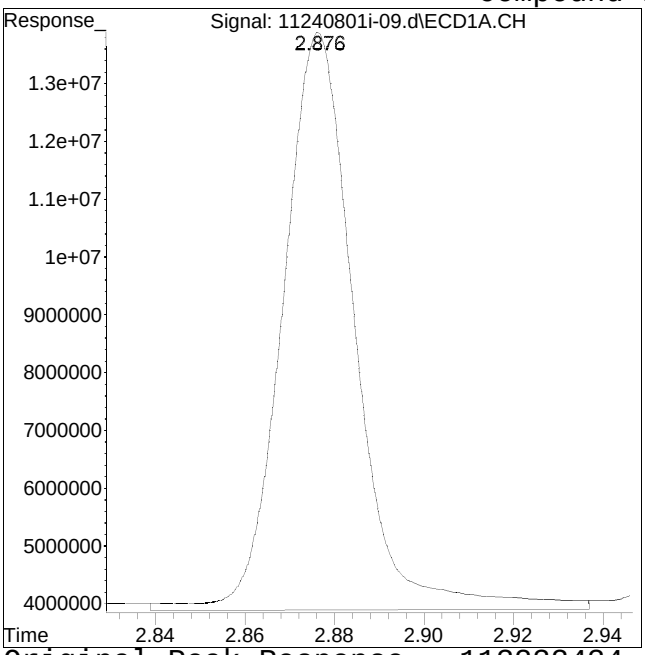
Manual Peak Response = 538261325 M4

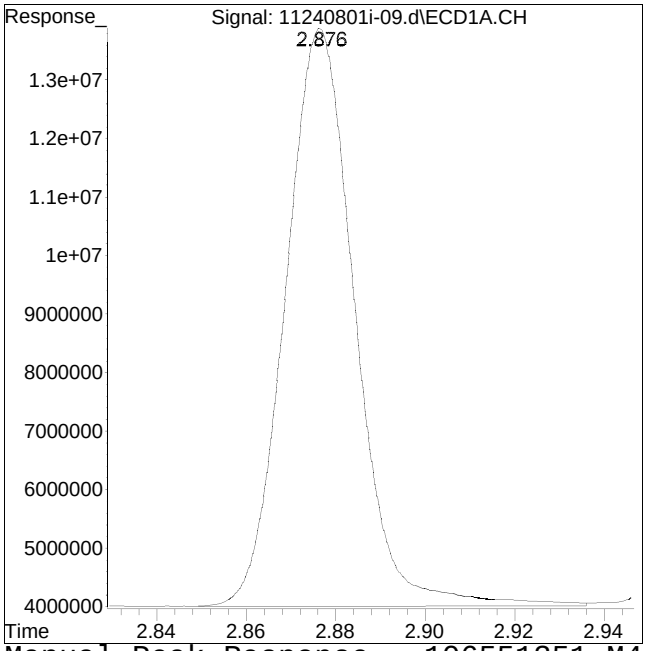
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #10: Alachlor



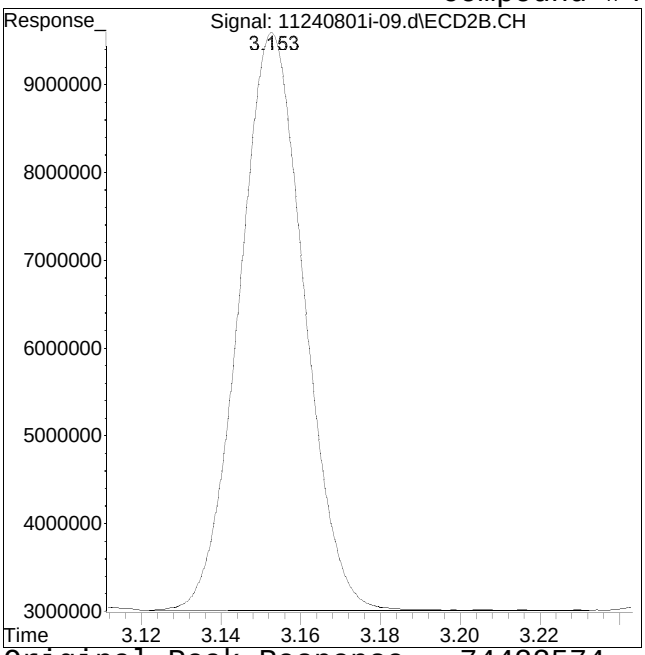


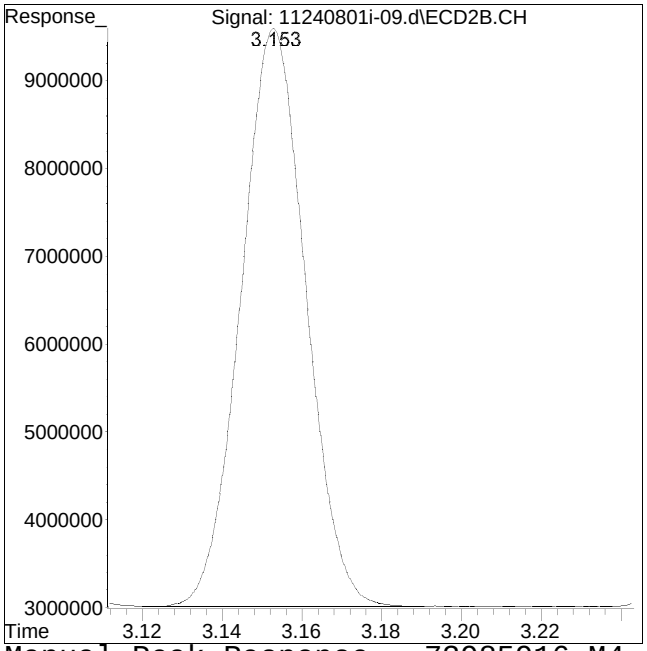
Original Peak Response = 113232434 Manual Peak Response = 106551351 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #48: Alachlor #2



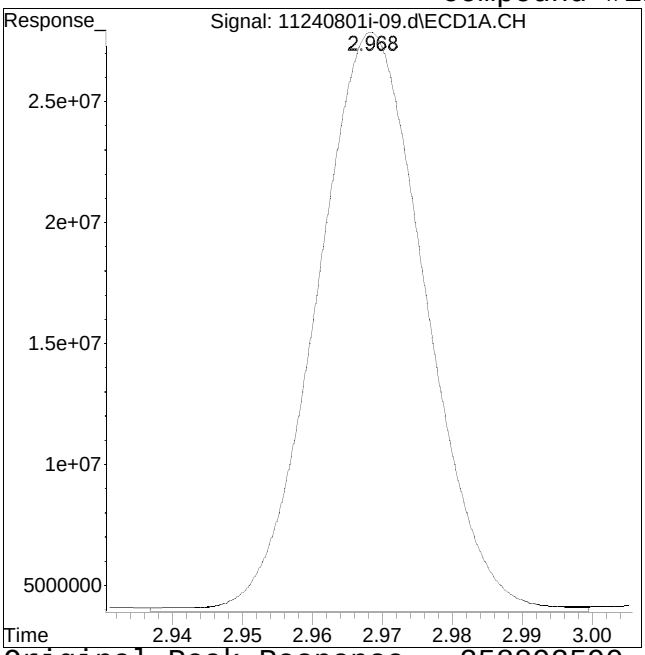


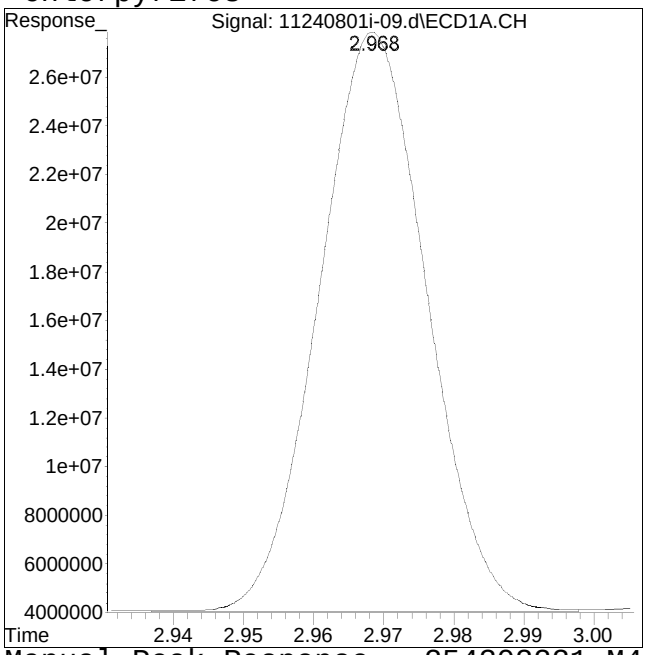
Original Peak Response = 74422574 Manual Peak Response = 73985916 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #11: Chlorpyrifos



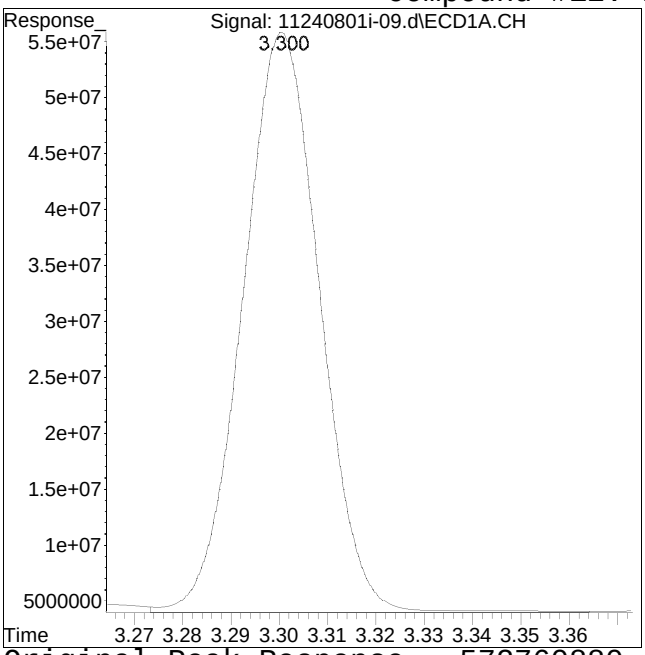


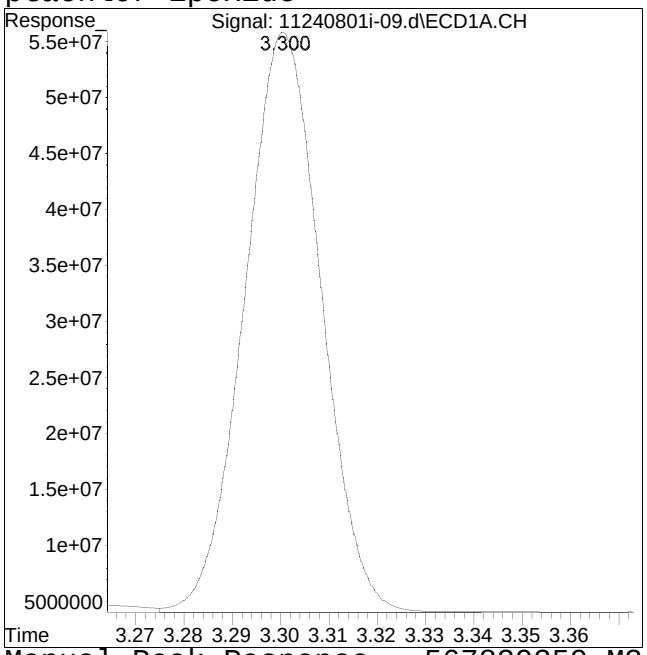
Original Peak Response = 258892590 Manual Peak Response = 254302221 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #12: Heptachlor Epoxide





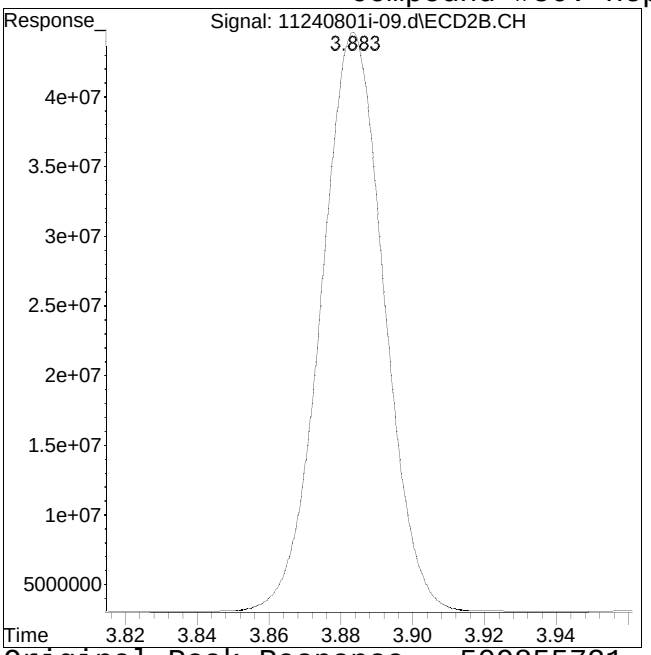
Original Peak Response = 572760880 Manual Peak Response = 567829350 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

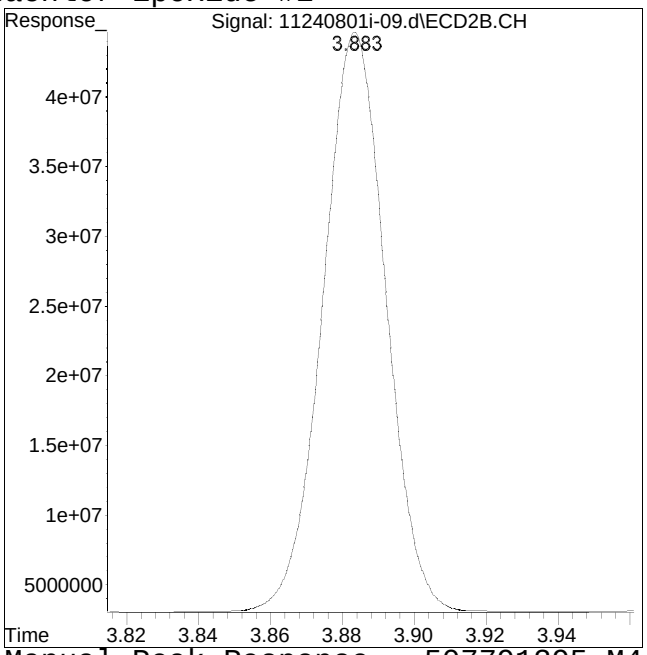
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 509855721



Manual Peak Response = 507791395 M4

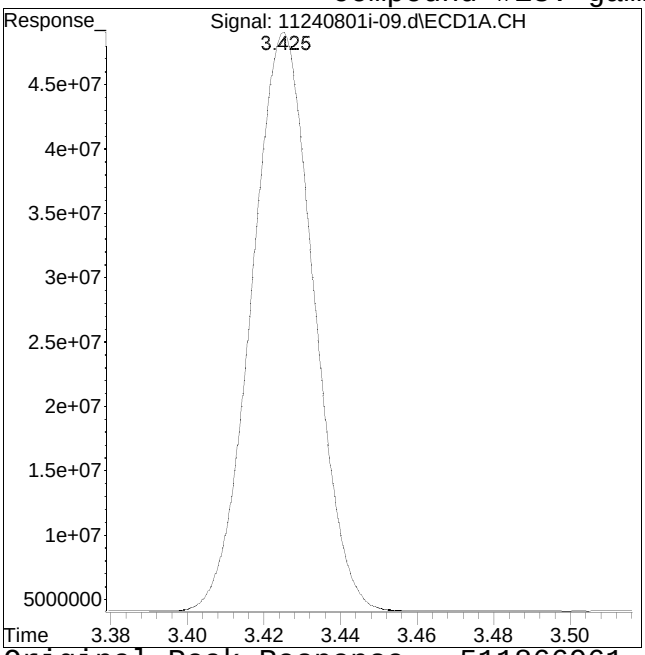
M4 = Poor automated baseline construction.

Manual Integration Report

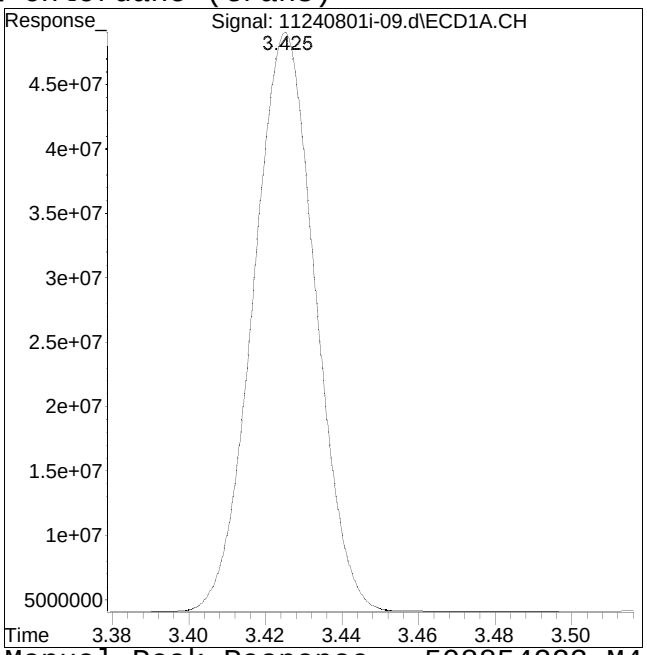
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 511866961



Manual Peak Response = 508854223 M4

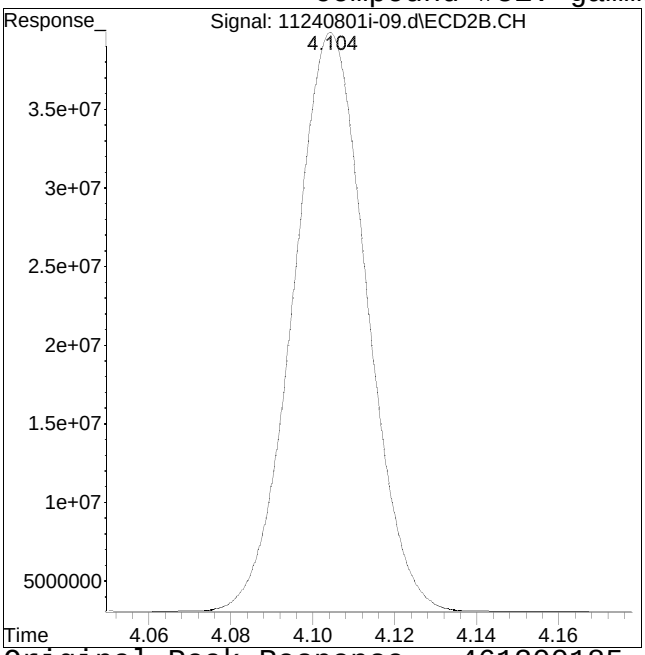
M4 = Poor automated baseline construction.

Manual Integration Report

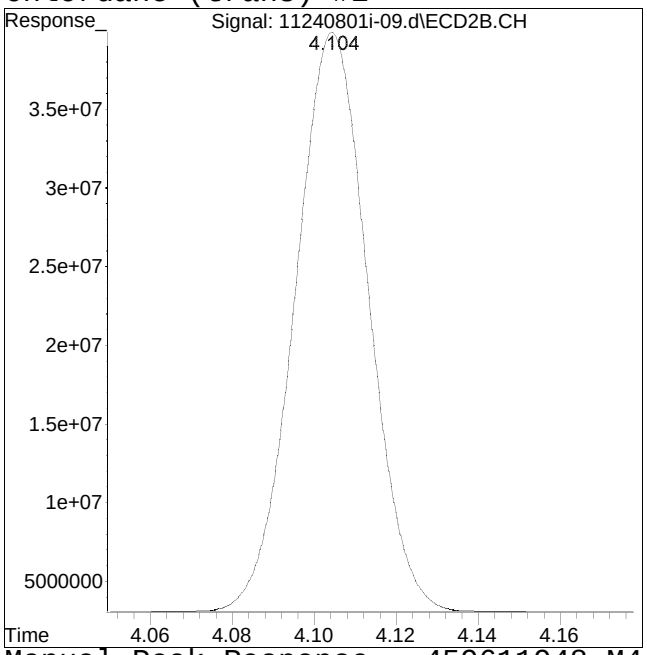
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 461300185



Manual Peak Response = 459611948 M4

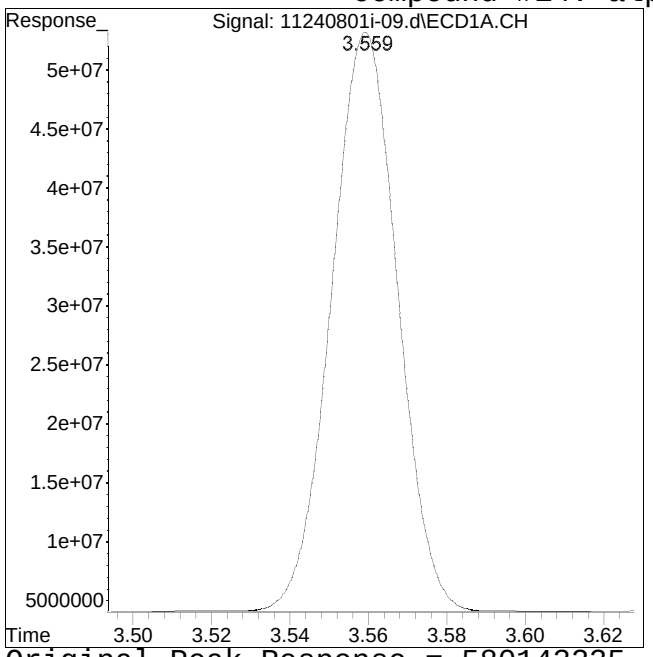
M4 = Poor automated baseline construction.

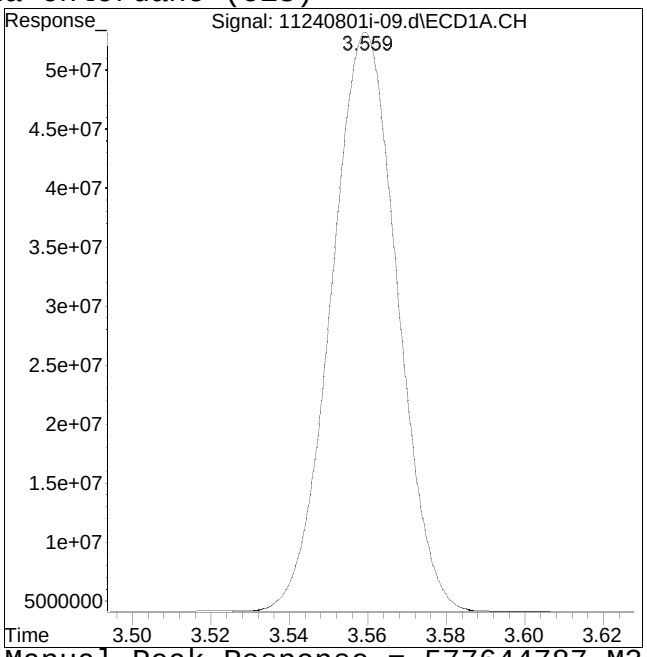
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #14: alpha-Chlordane (cis)





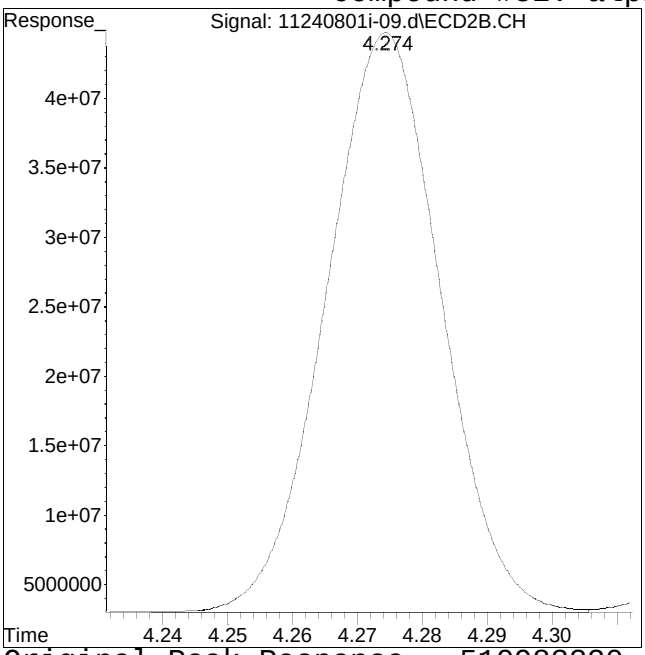
Original Peak Response = 580143235 Manual Peak Response = 577644787 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

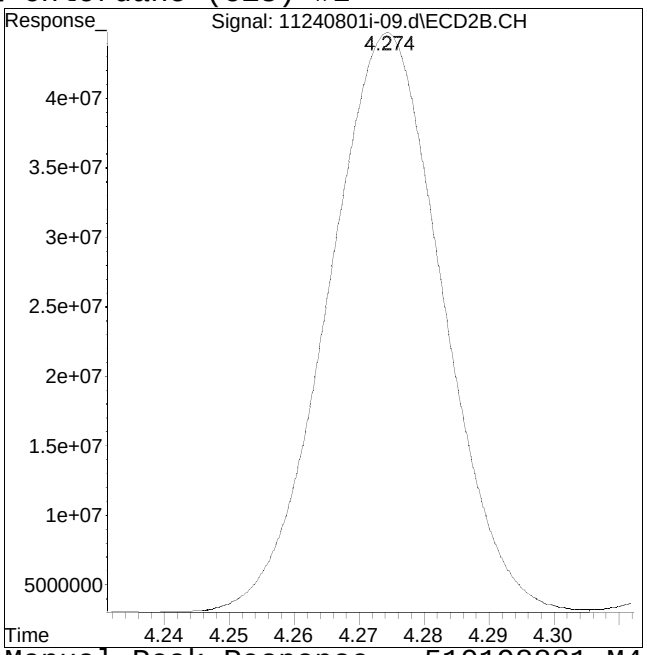
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 510983320



Manual Peak Response = 510198881 M4

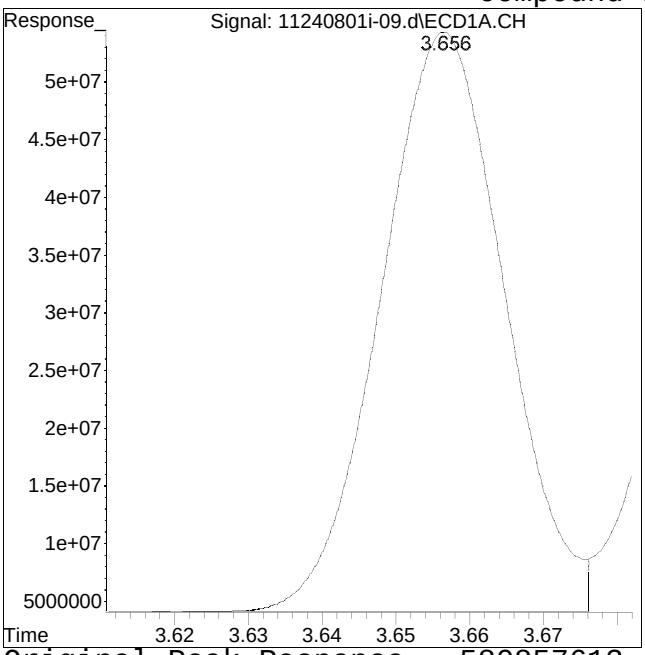
M4 = Poor automated baseline construction.

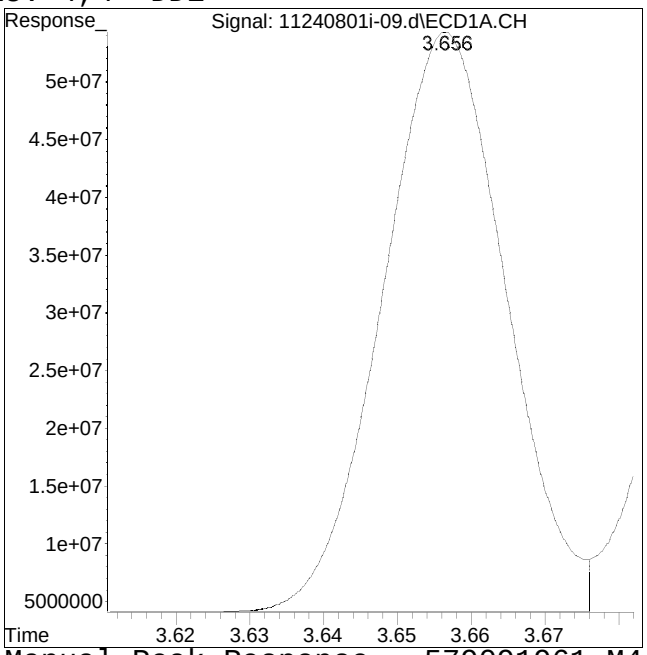
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #15: 4,4'-DDE



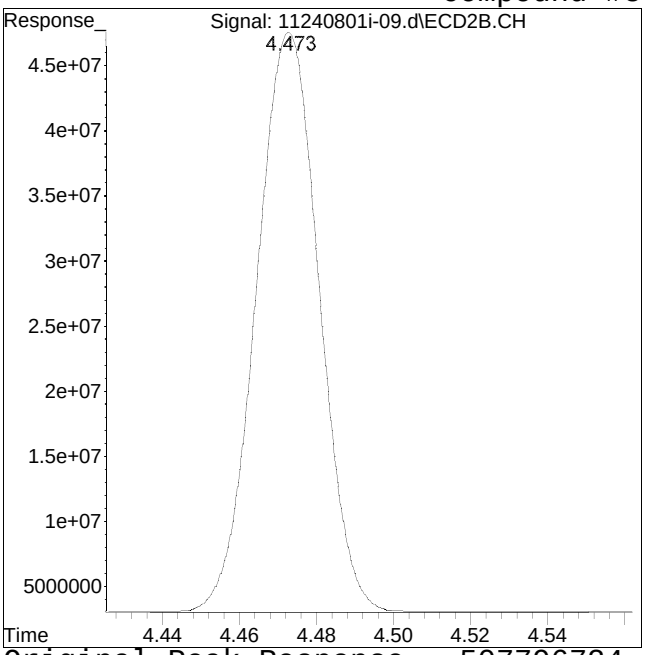


Original Peak Response = 580857613 Manual Peak Response = 579091961 M4
M4 = Poor automated baseline construction.

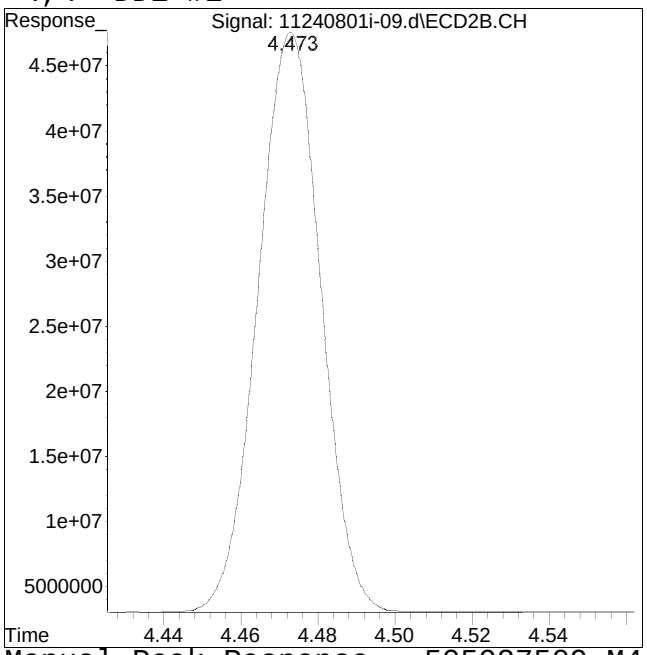
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 507796724



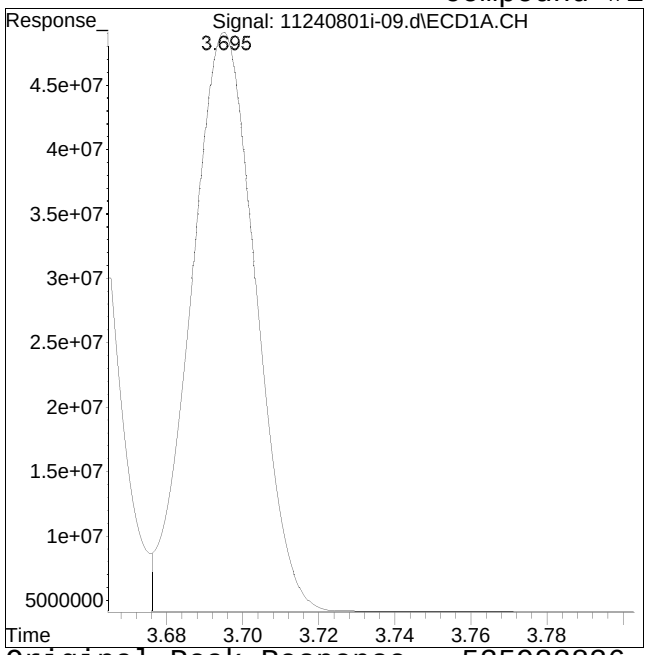
Manual Peak Response = 505927509 M4

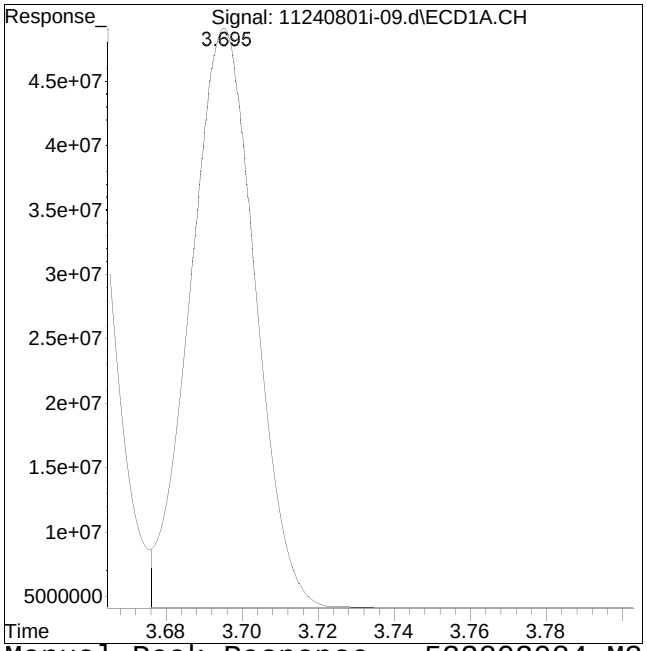
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #16: Endosulfan I



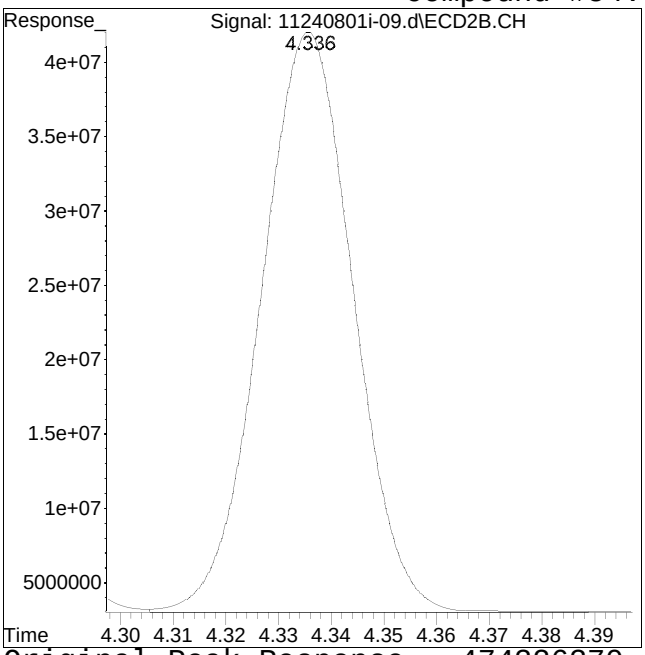


Original Peak Response = 535932836 Manual Peak Response = 533803084 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

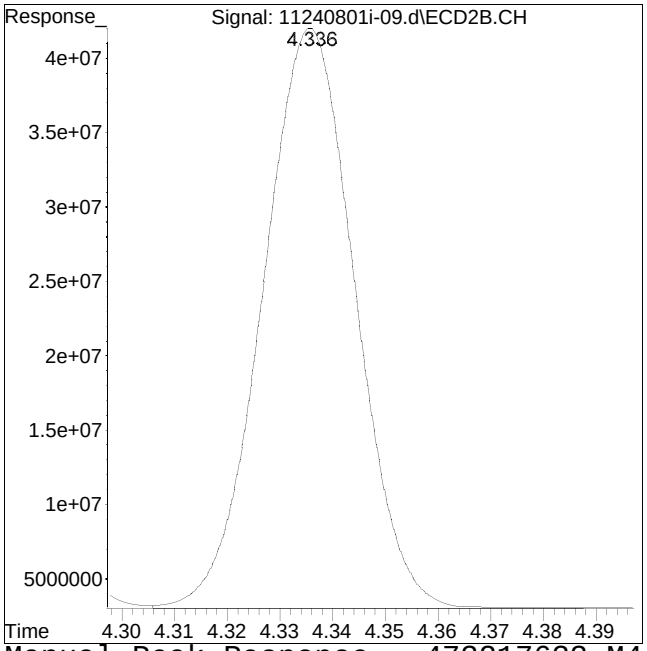
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #54: Endosulfan I #2



Original Peak Response = 474326370



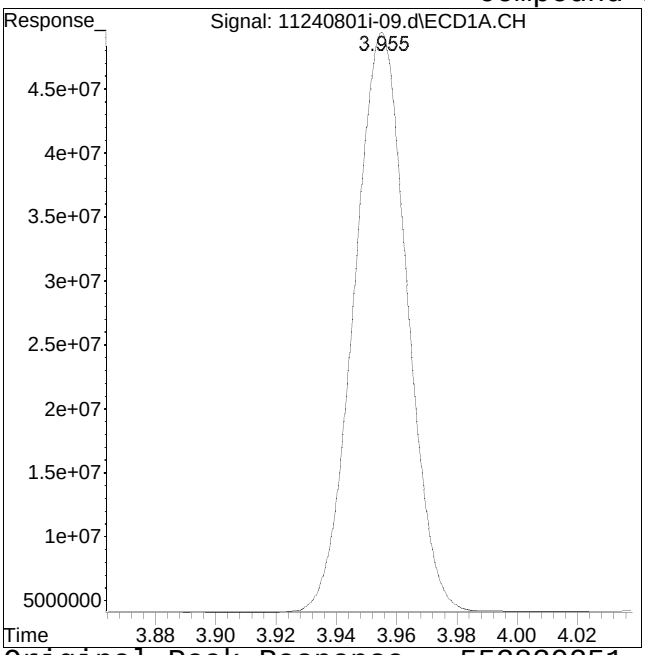
Manual Peak Response = 473217633 M4

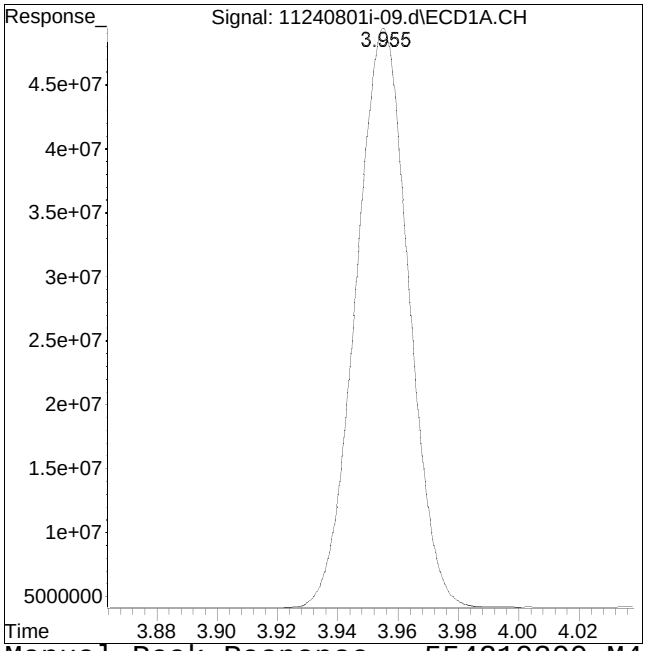
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #17: Dieldrin



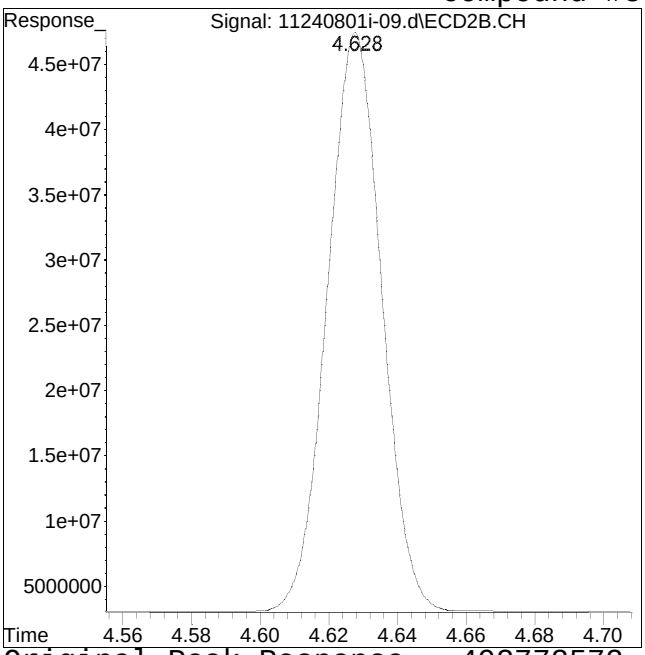


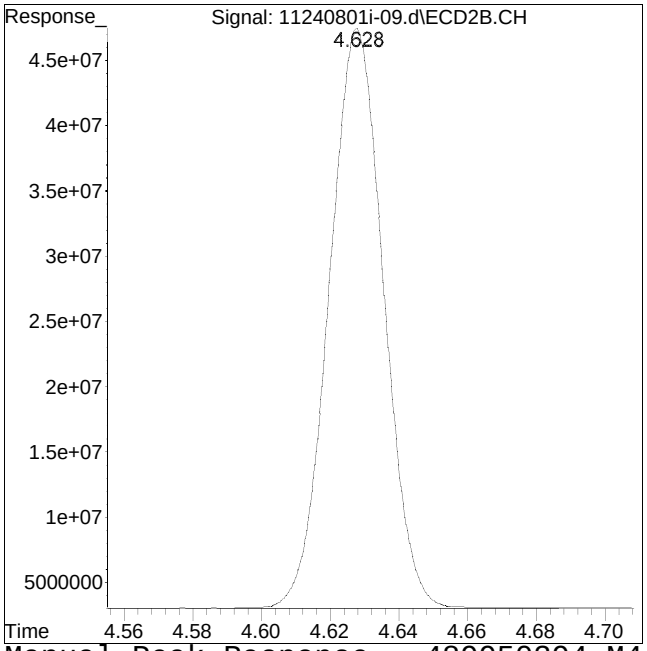
Original Peak Response = 553839251 Manual Peak Response = 554210200 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #55: Dieldrin #2



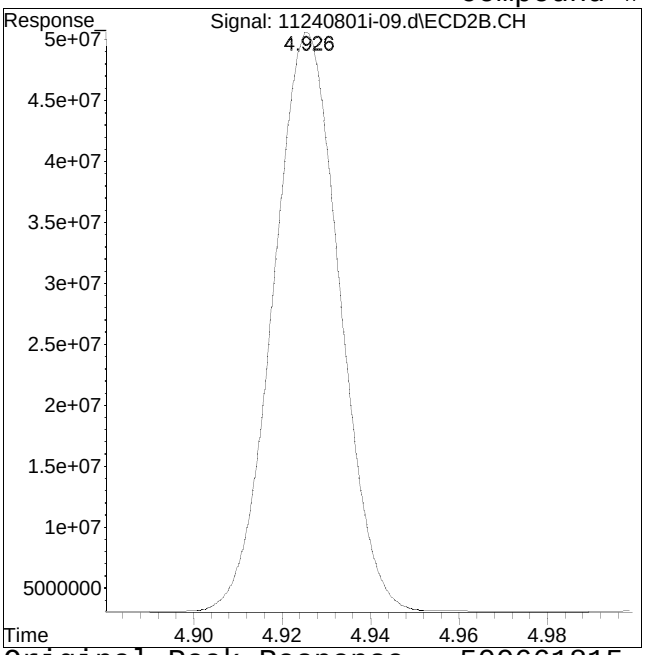


Original Peak Response = 492772572 Manual Peak Response = 489950394 M4
M4 = Poor automated baseline construction.

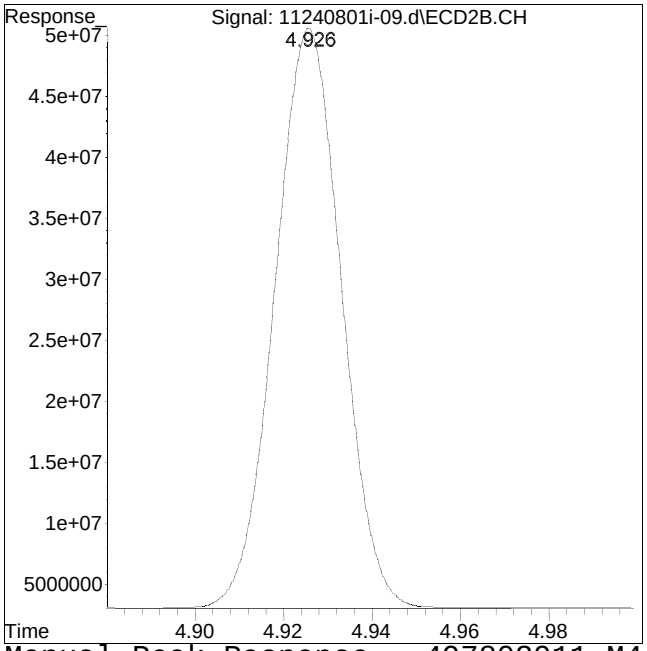
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #56: Endrin #2



Original Peak Response = 500661815



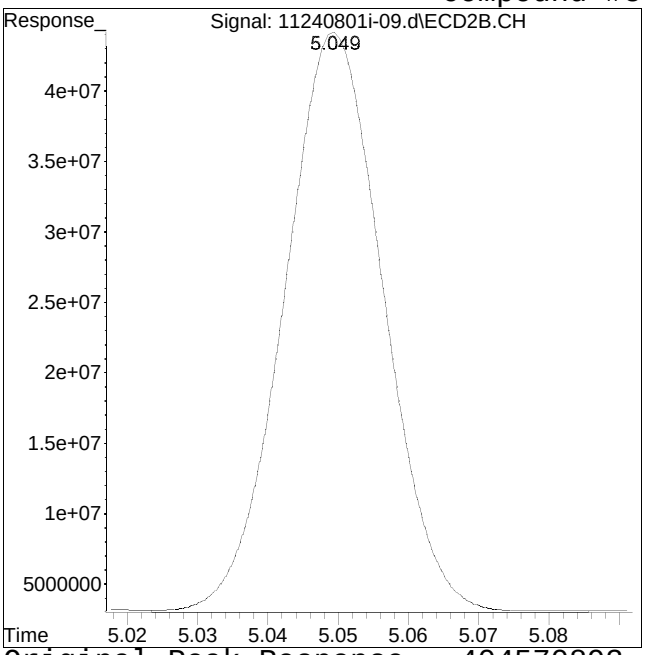
Manual Peak Response = 497803911 M4

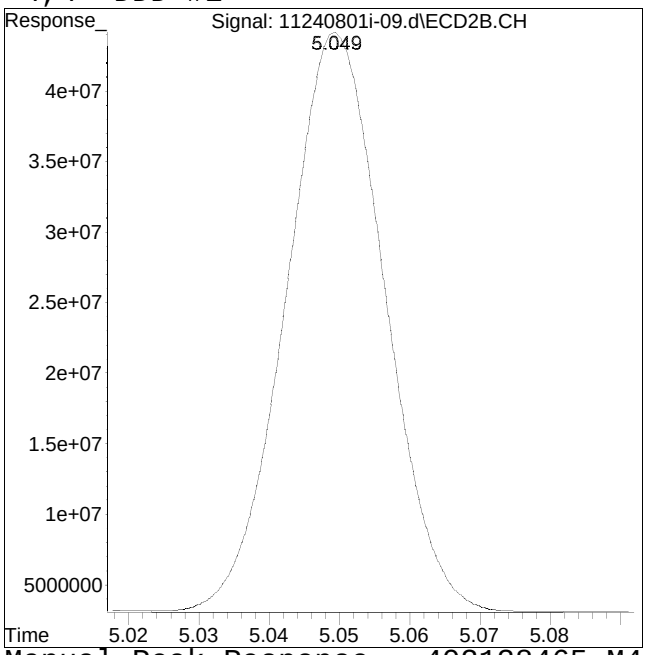
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #57: 4,4'-DDD #2



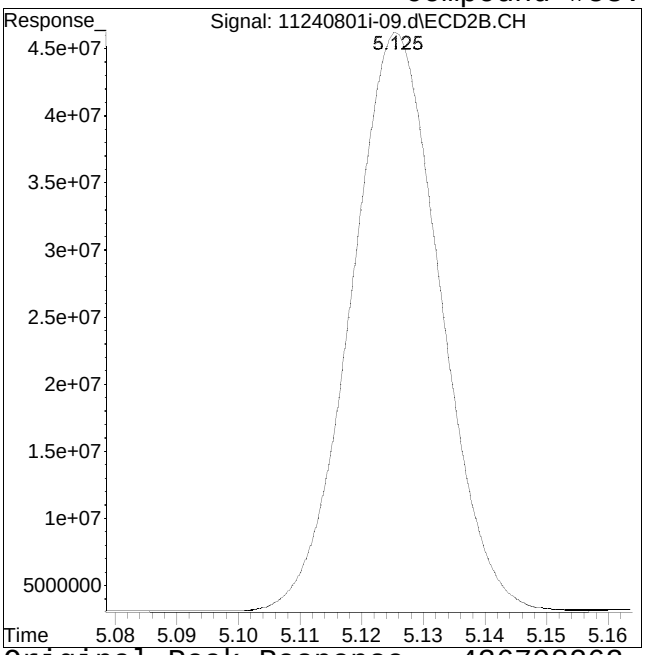


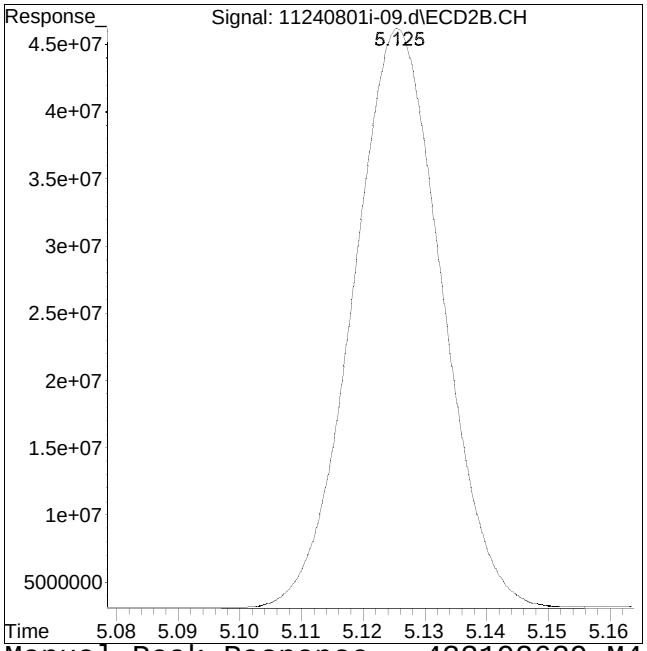
Original Peak Response = 404570893 Manual Peak Response = 402138465 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #58: Endosulfan II #2





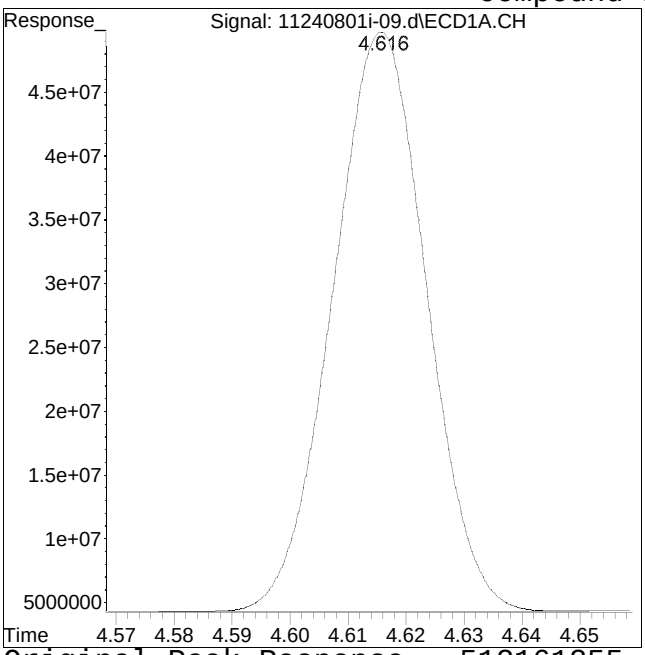
Original Peak Response = 436798262 Manual Peak Response = 433192639 M4
M4 = Poor automated baseline construction.

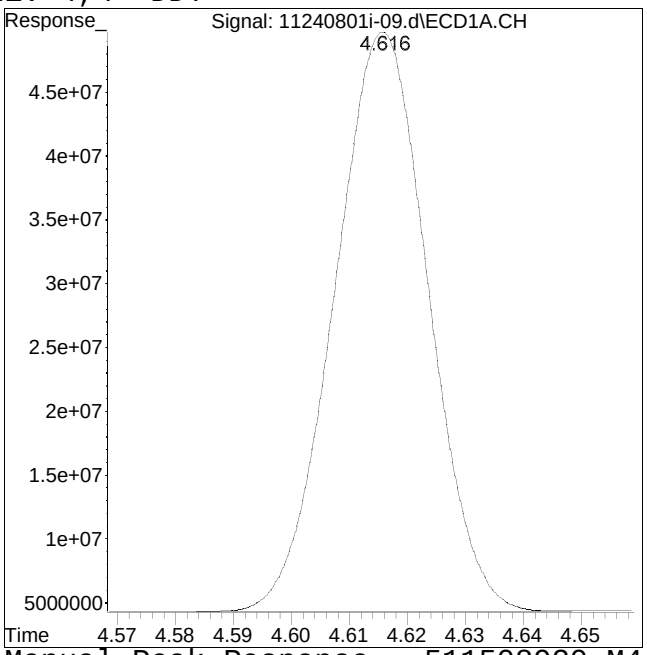
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #21: 4,4'-DDT



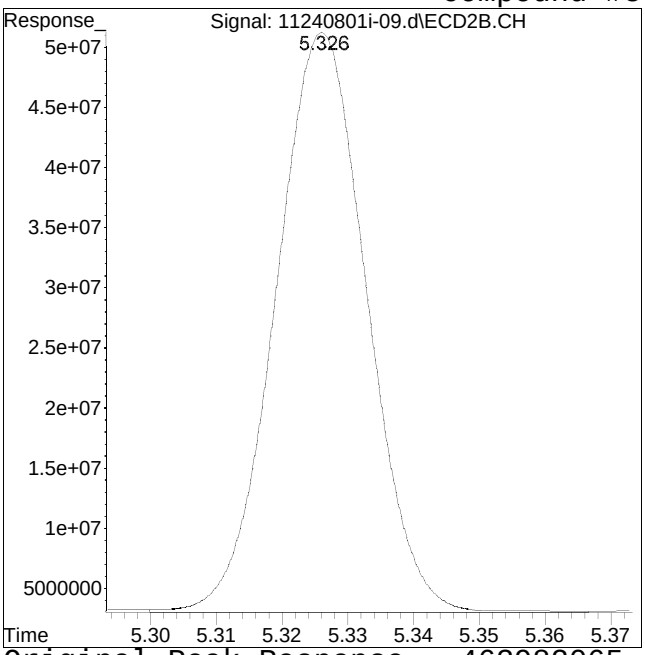


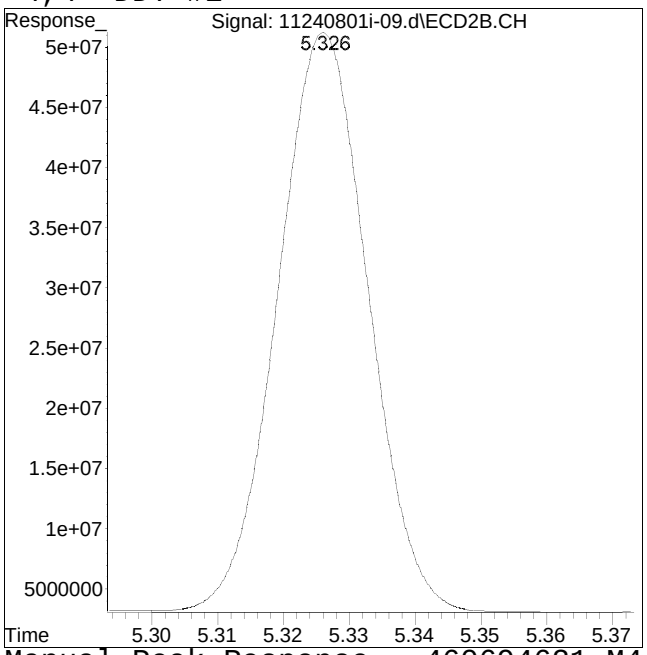
Original Peak Response = 512161255 Manual Peak Response = 511508920 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #59: 4,4'-DDT #2





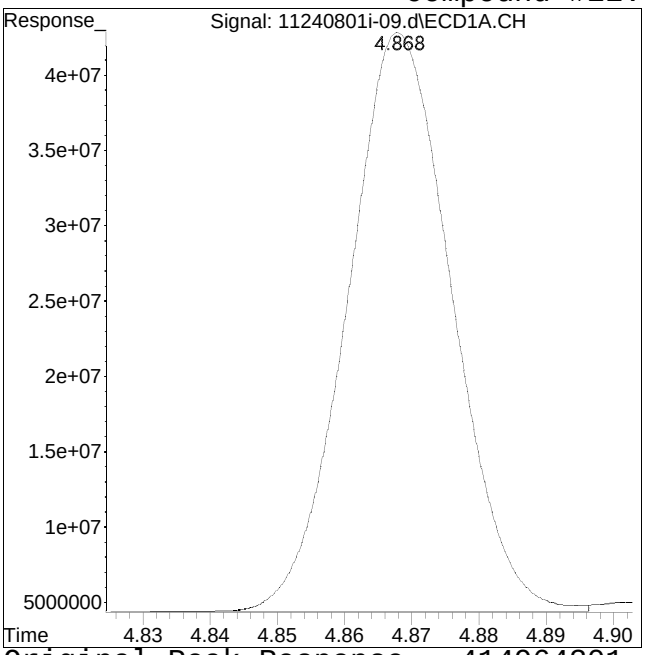
Original Peak Response = 463982065 Manual Peak Response = 460694621 M4
M4 = Poor automated baseline construction.

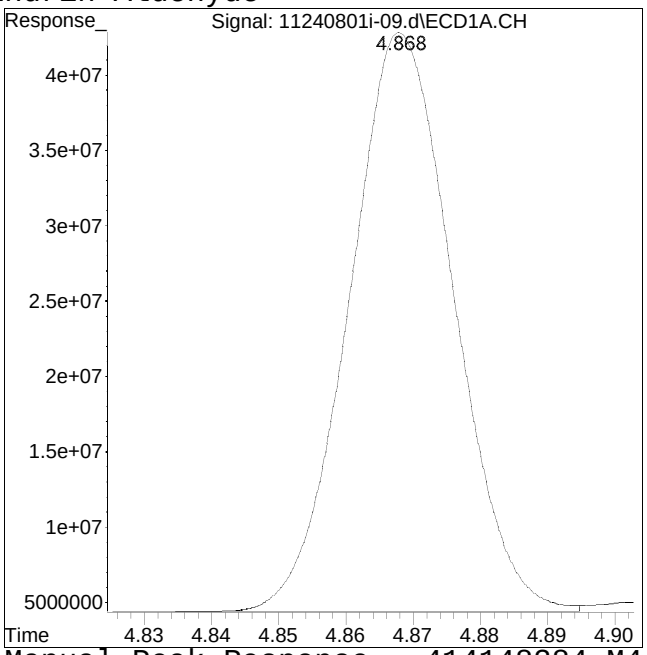
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #22: Endrin Aldehyde



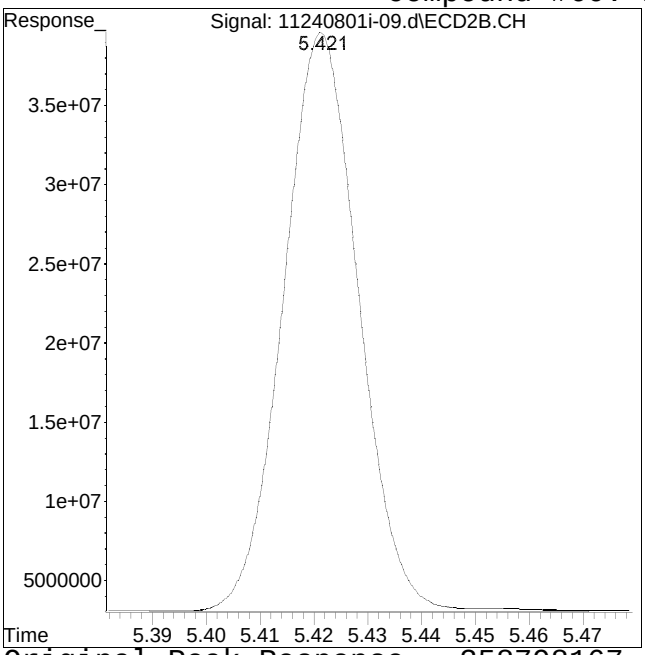


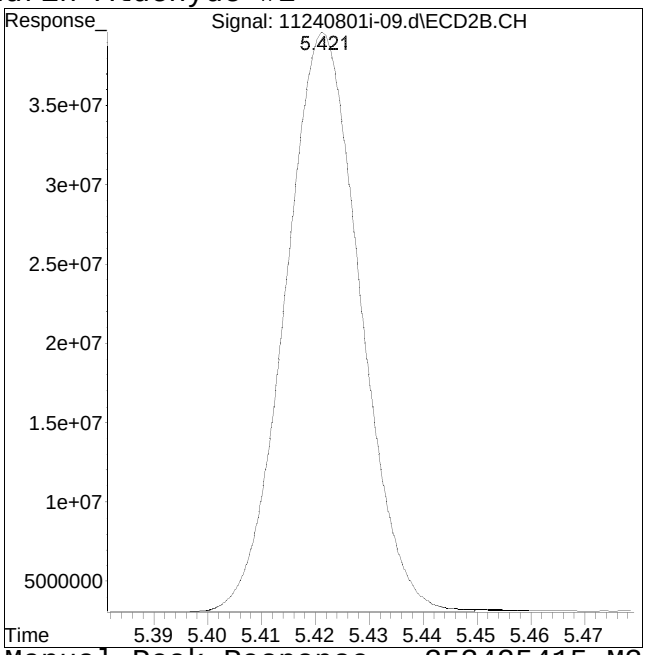
Original Peak Response = 414964301 Manual Peak Response = 414148384 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #60: Endrin Aldehyde #2





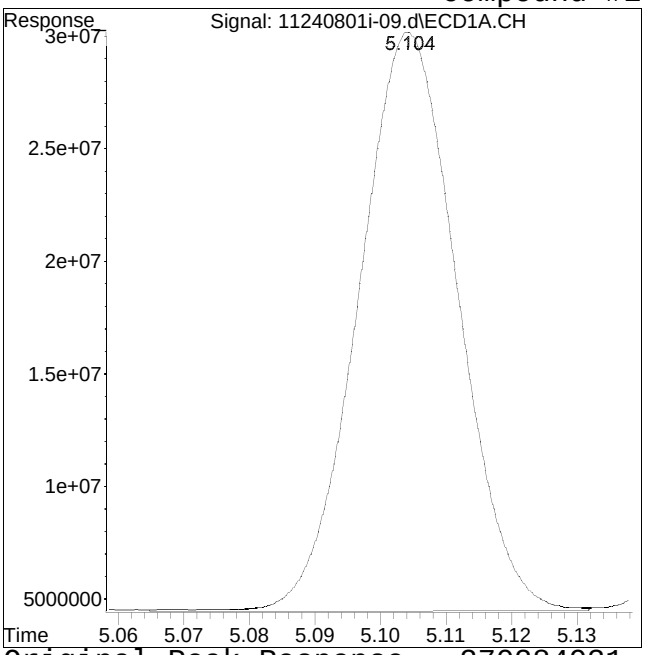
Original Peak Response = 358798167 Manual Peak Response = 353425415 M3

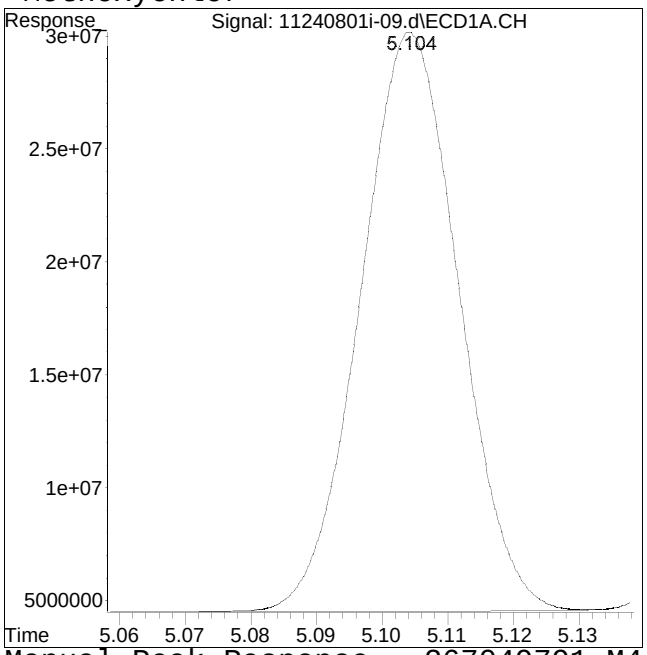
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #23: Methoxychlor





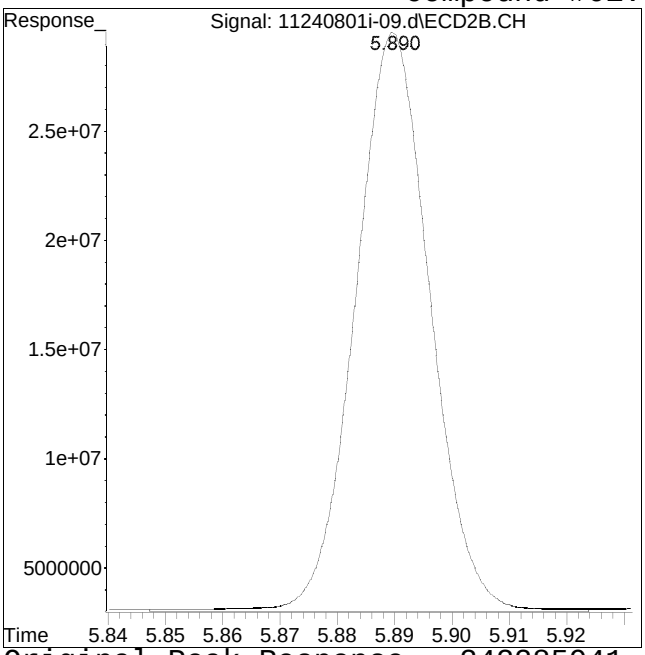
Original Peak Response = 270284931 Manual Peak Response = 267049791 M4
M4 = Poor automated baseline construction.

Manual Integration Report

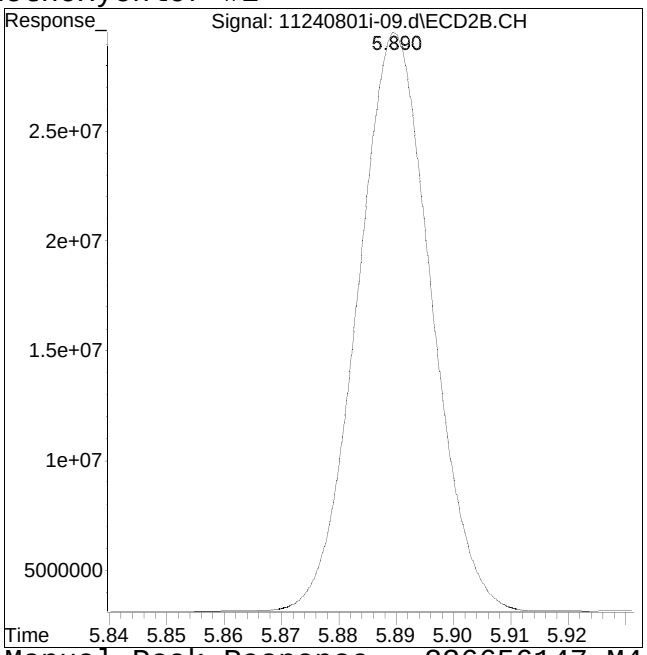
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #61: Methoxychlor #2



Original Peak Response = 242285941



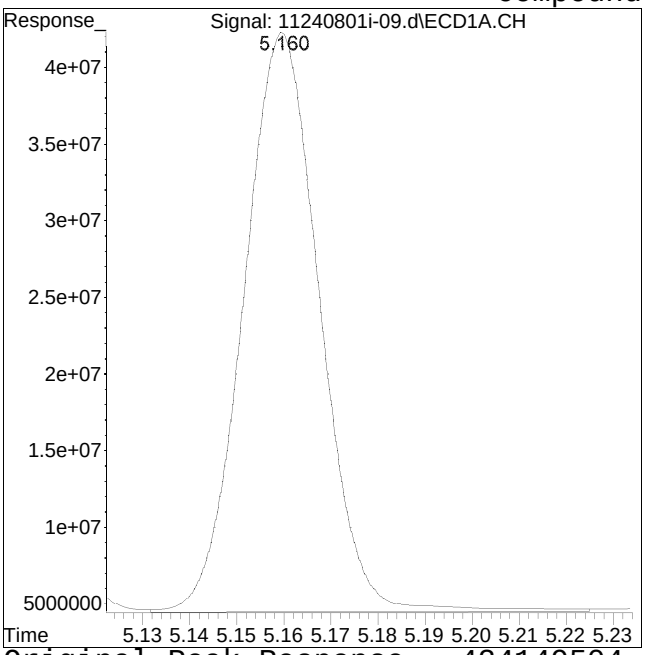
Manual Peak Response = 236656147 M4

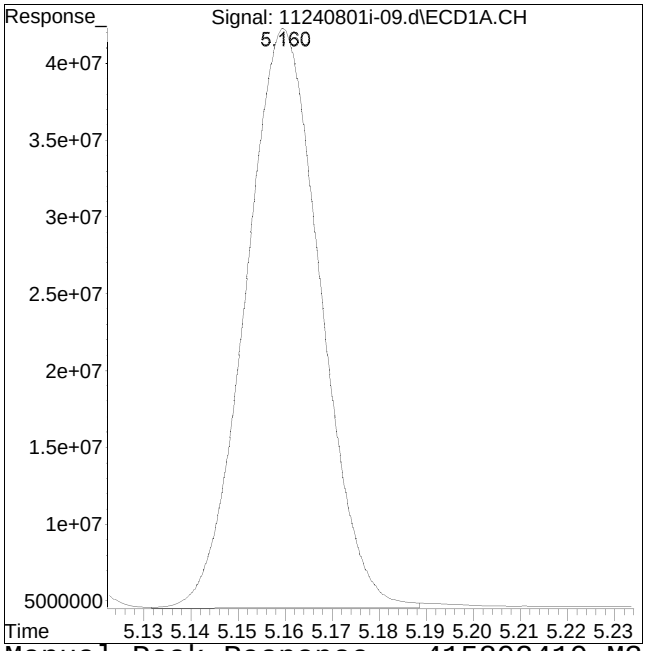
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #24: Mirex





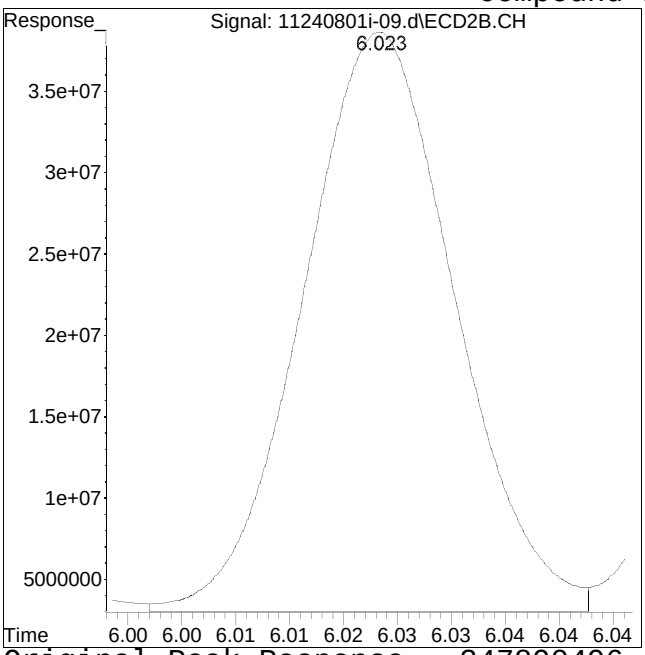
Original Peak Response = 424149504 Manual Peak Response = 415802410 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

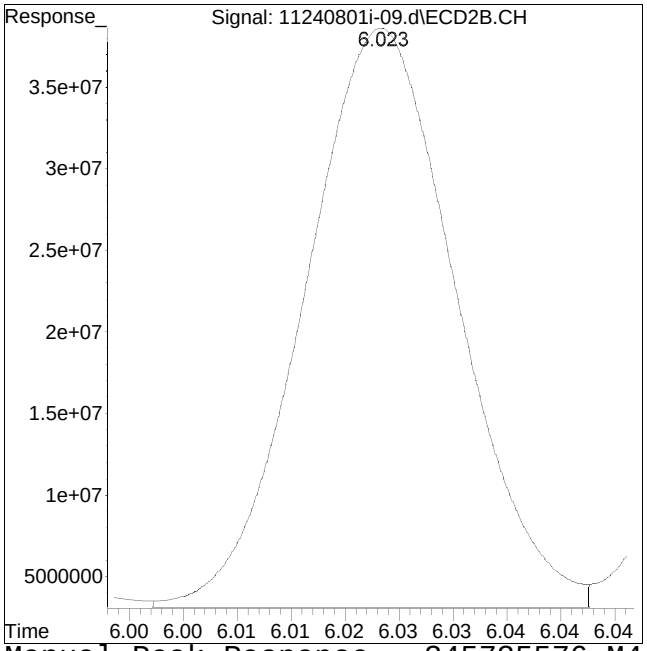
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #62: Mirex #2



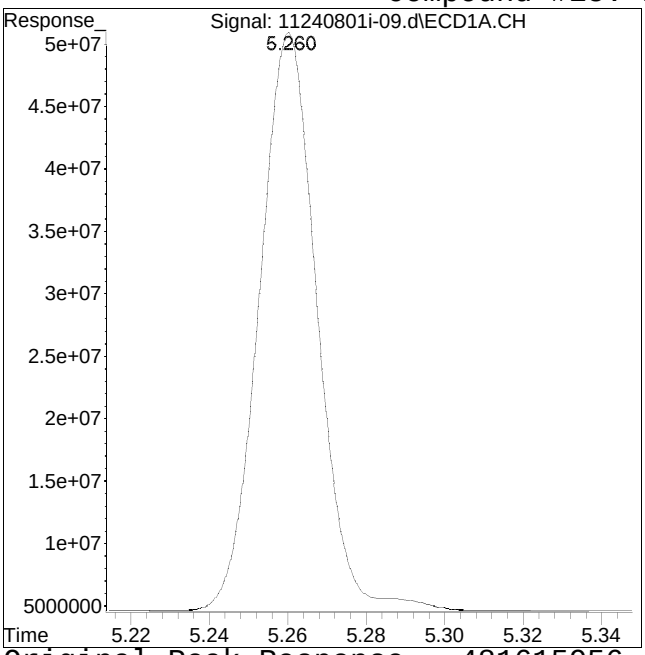


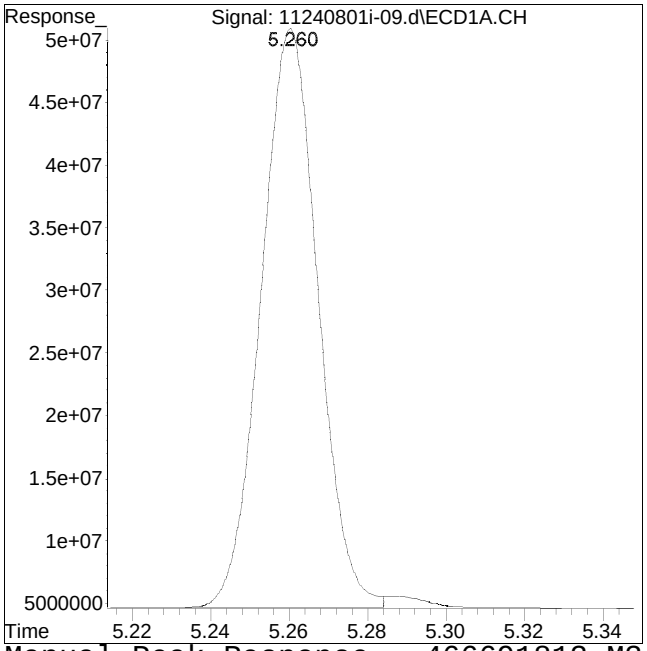
Original Peak Response = 347890496 Manual Peak Response = 345735576 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #25: Endosulfan Sulfate



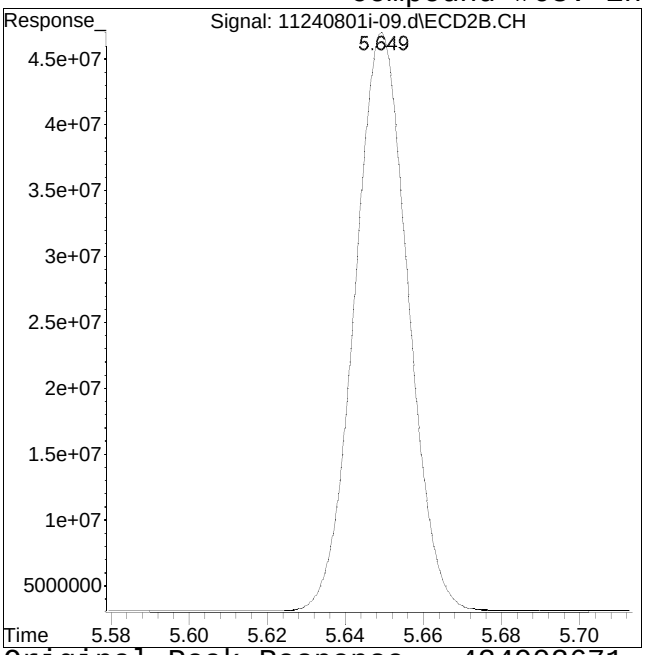


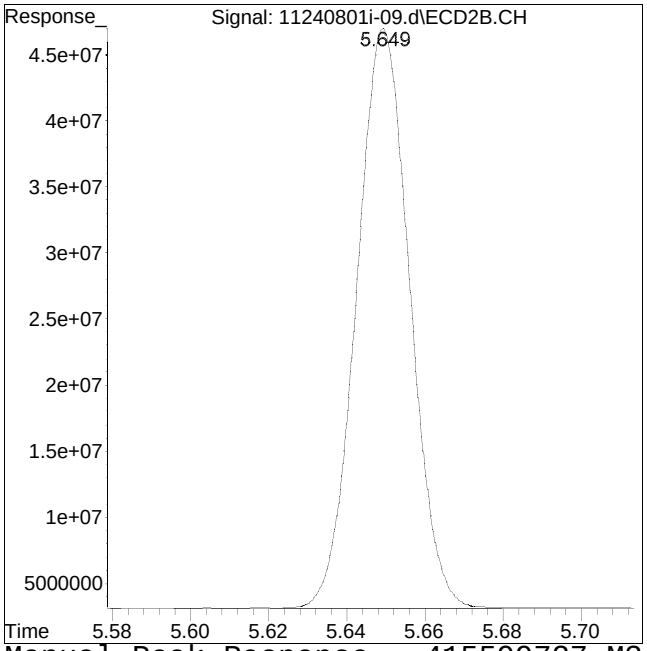
Original Peak Response = 481615956 Manual Peak Response = 466691813 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #63: Endosulfan Sulfate #2





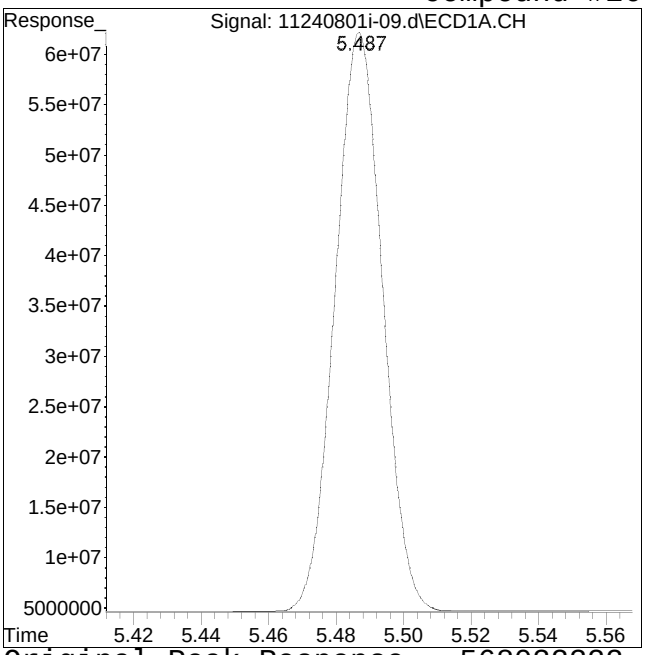
Original Peak Response = 424902671 Manual Peak Response = 415599727 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

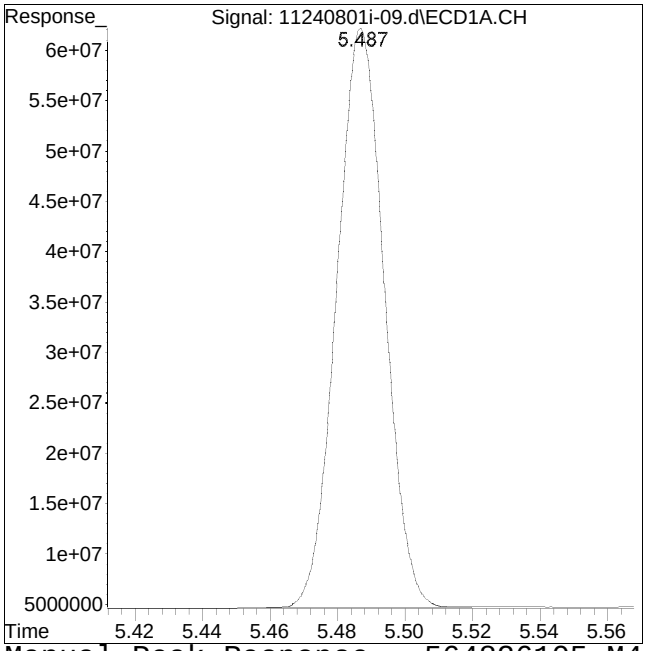
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #26: Endrin Ketone





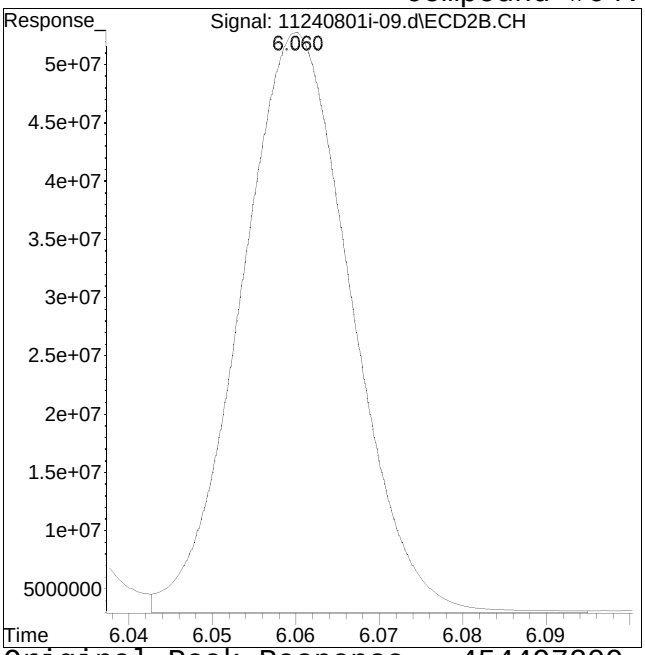
Original Peak Response = 568032322 Manual Peak Response = 564826105 M4
M4 = Poor automated baseline construction.

Manual Integration Report

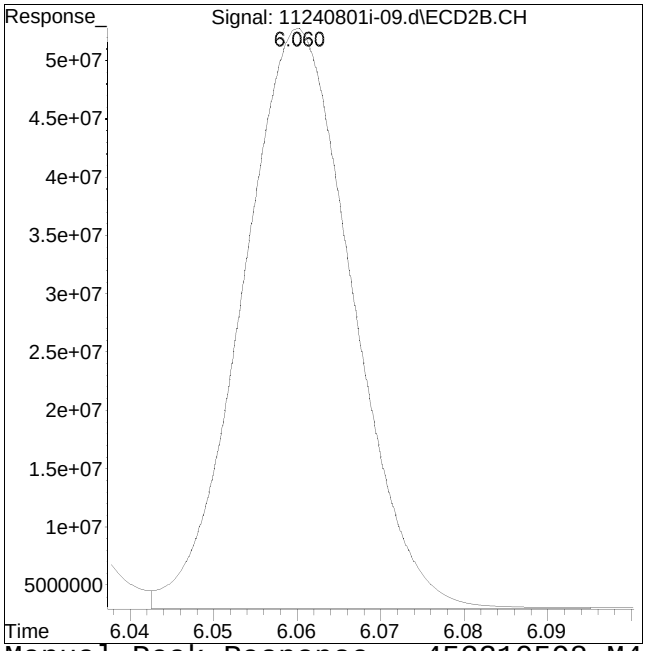
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #64: Endrin Ketone #2



Original Peak Response = 454497209



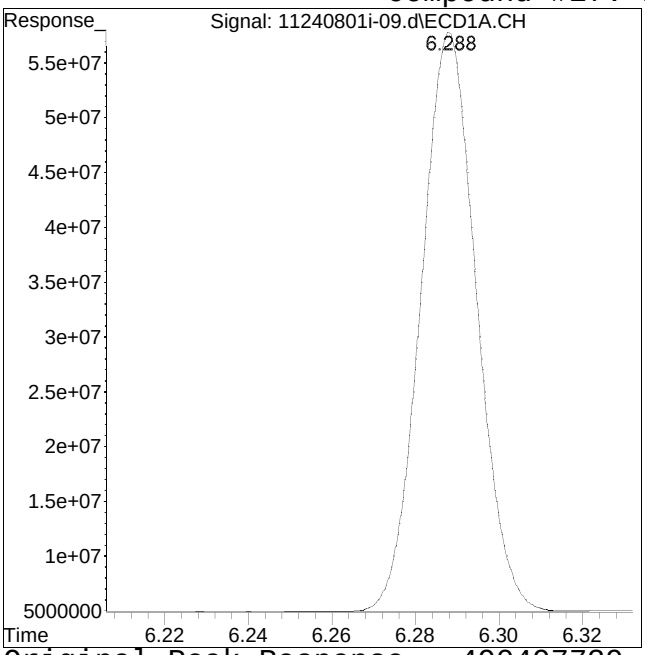
Manual Peak Response = 452310598 M4

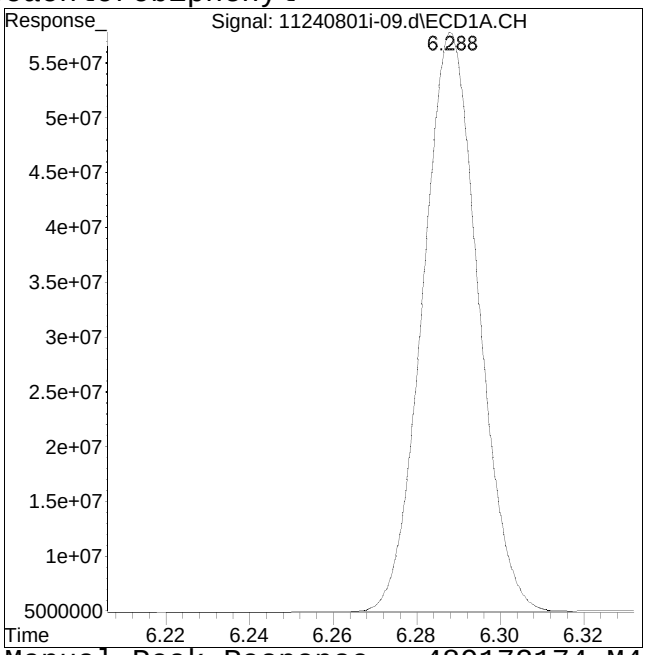
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #27: Decachlorobiphenyl



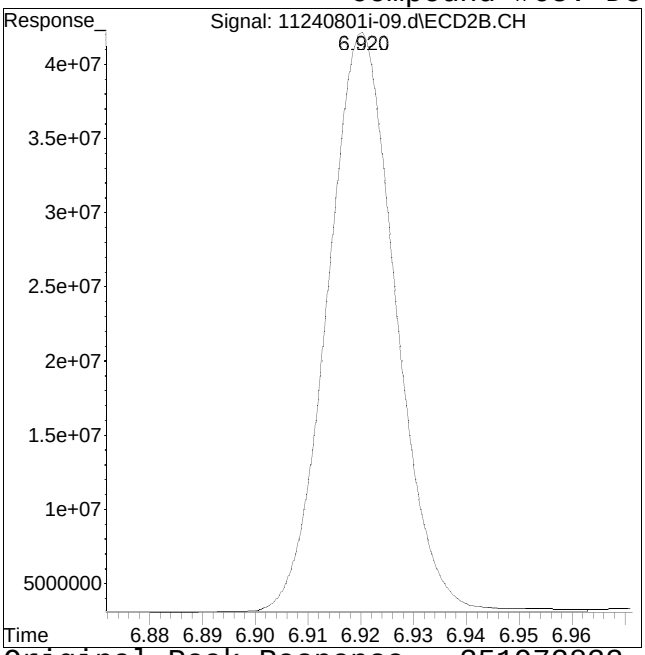


Original Peak Response = 490497739 Manual Peak Response = 489172174 M4
M4 = Poor automated baseline construction.

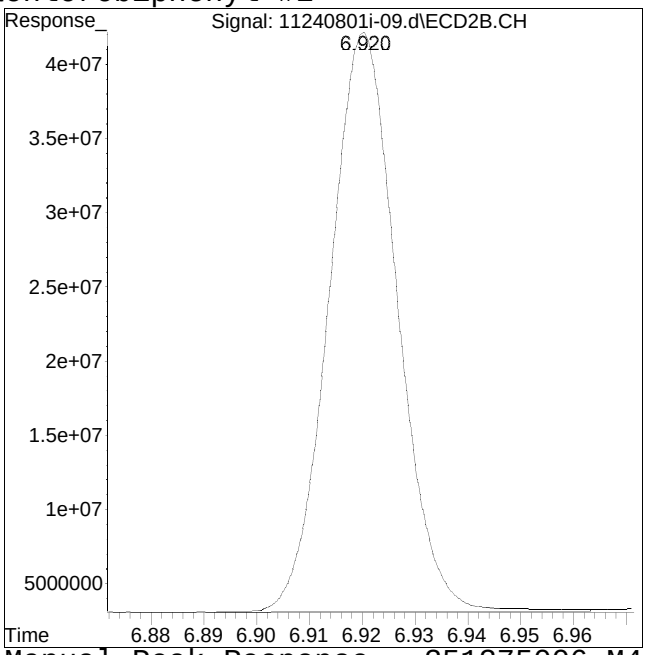
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 351972833



Manual Peak Response = 351375006 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:01
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:10:53 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:10:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.309	1.385	228.9E6	186.0E6	25.000M4	25.000M4
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	1.652	1.858	978.0E6	793.9E6	102.526M3	98.316M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		205.05%#	196.63%#
27)	s	Decachlorobi	6.287	6.920	966.4E6	693.4E6	101.892M4	99.592M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		203.78%#	199.18%#
		Target Compounds						
3)	t	Hexachlorobe	1.865	2.178	1254.4E6	852.0E6	101.913M3	99.956M4
4)	t	alpha-BHC	1.963	2.271	1517.1E6	1291.2E6	104.962M3	102.929M3
5)	t	gamma-BHC (l	2.165	2.556	1395.5E6	1162.9E6	104.626M4	102.486M4
6)	t	beta-BHC	2.221	2.622	569.7E6	475.2E6	102.483M3	99.416M4
7)	t	delta-BHC	2.349	2.889	1415.2E6	1188.9E6	105.152M4	103.238M4
8)	t	Heptachlor	2.513	2.952	1281.7E6	1164.2E6	103.113M4	100.742
9)	t	Aldrin	2.756	3.271	1234.2E6	1093.2E6	104.739M4	102.495
10)	t	Alachlor	2.876	3.153	202.3E6	136.5E6	97.935M4	93.096M4
11)	t	Chlorpyrifos	2.968	3.506	476.2E6	520.8E6	96.581M4	95.072

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:01
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:10:53 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:10:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.301	3.884	1132.0E6	1013.1E6	102.826M4	100.688M4
13)	t	gamma-Chlord	3.425	4.104	1037.3E6	931.1E6	105.142M4	102.239M4
14)	t	alpha-Chlord	3.559	4.274	1167.6E6	1027.5E6	104.255M3	101.638
15)	t	4,4'-DDE	3.657	4.473	1188.4E6	1034.3E6	105.852	103.171M4
16)	t	Endosulfan I	3.695	4.336	1073.0E6	944.4E6	103.673M3	100.715
17)	t	Dieldrin	3.955	4.627	1129.5E6	992.5E6	105.119M3	102.230M3
18)	t	Endrin	4.210	4.925	1134.9E6	1004.3E6	103.955M4	101.809M4
19)	t	4,4'-DDD	4.321	5.049	929.4E6	823.1E6	106.236M4	103.291M4
20)	t	Endosulfan I	4.451	5.125	1017.3E6	866.0E6	103.751	100.883M4
21)	t	4,4'-DDT	4.616	5.326	1043.2E6	939.1E6	105.189M4	102.870M4
22)	t	Endrin Aldeh	4.868	5.421	836.3E6	707.4E6	104.157M3	101.016M3
23)	t	Methoxychlor	5.104	5.890	519.3E6	461.0E6	100.292M4	98.297M4
24)	t	Mirex	5.160	6.023	822.7E6	677.1E6	102.053M4	98.827M4
25)	t	Endosulfan S	5.260	5.649	939.0E6	830.0E6	103.773M3	100.783M3
26)	t	Endrin Keton	5.487	6.060	1123.4E6	898.2E6	102.585M4	100.220M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:01
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:10:53 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:10:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

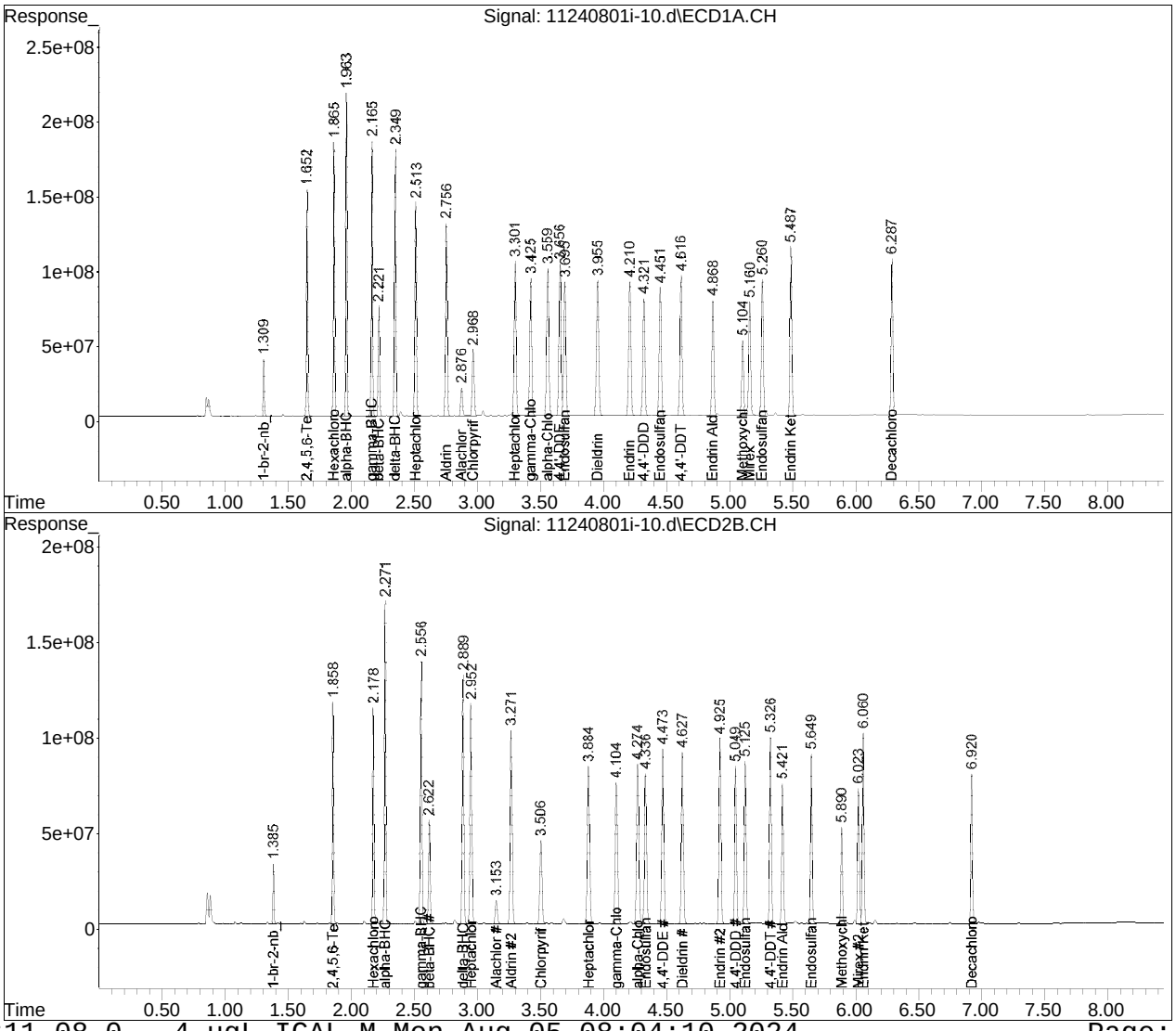
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:01
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:10:53 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:10:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

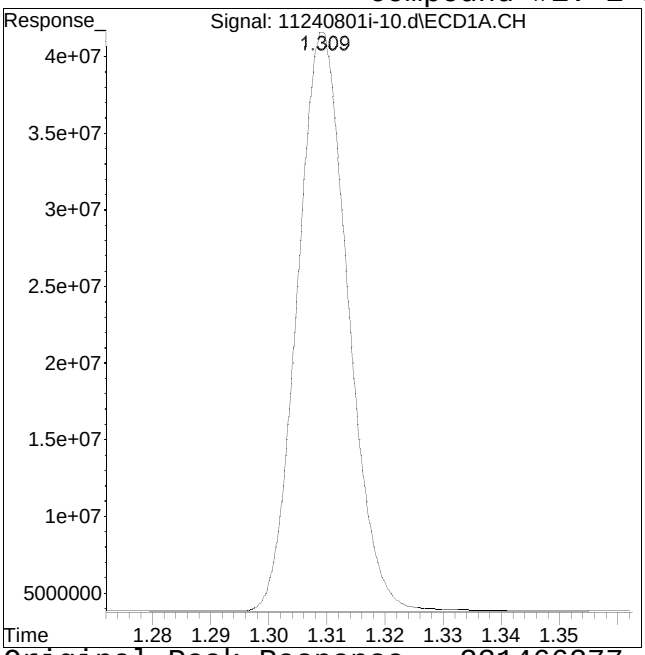


Manual Integration Report

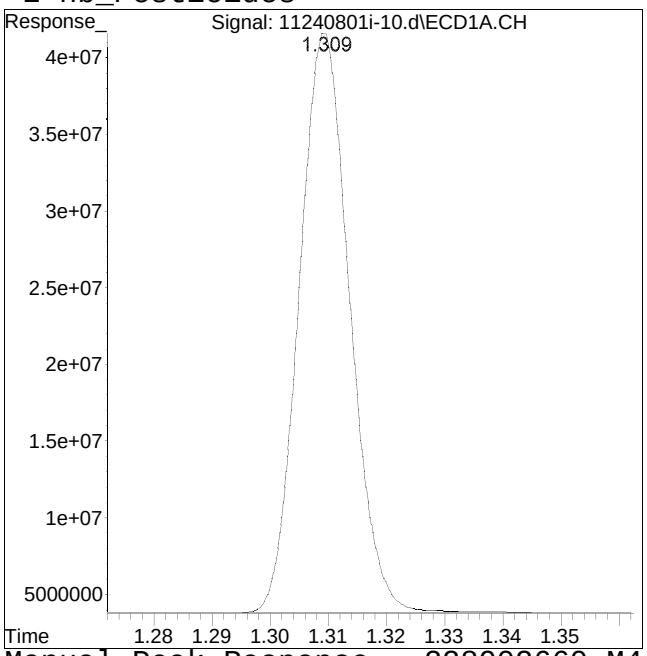
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 231466277



Manual Peak Response = 228902660 M4

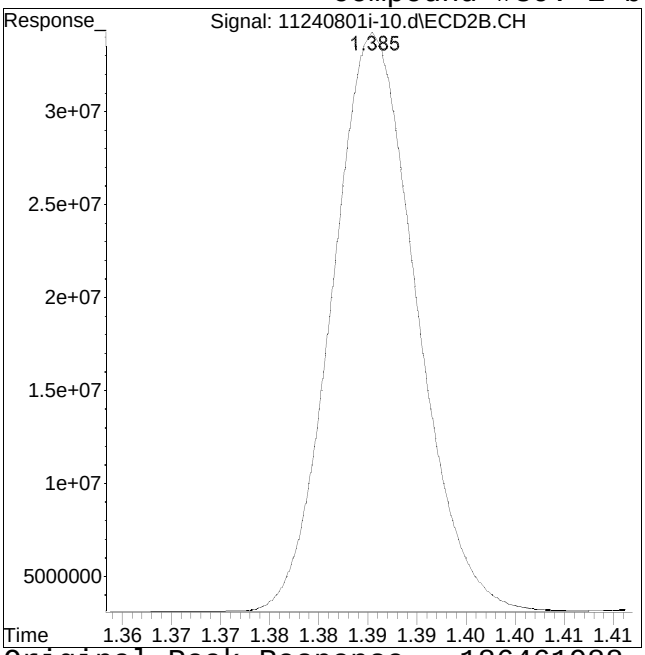
M4 = Poor automated baseline construction.

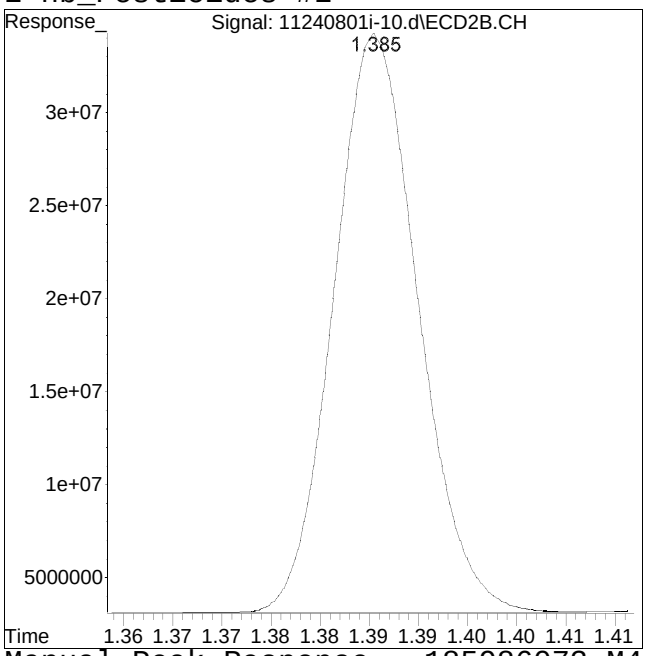
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #39: 1-br-2-nb_Pesticides #2



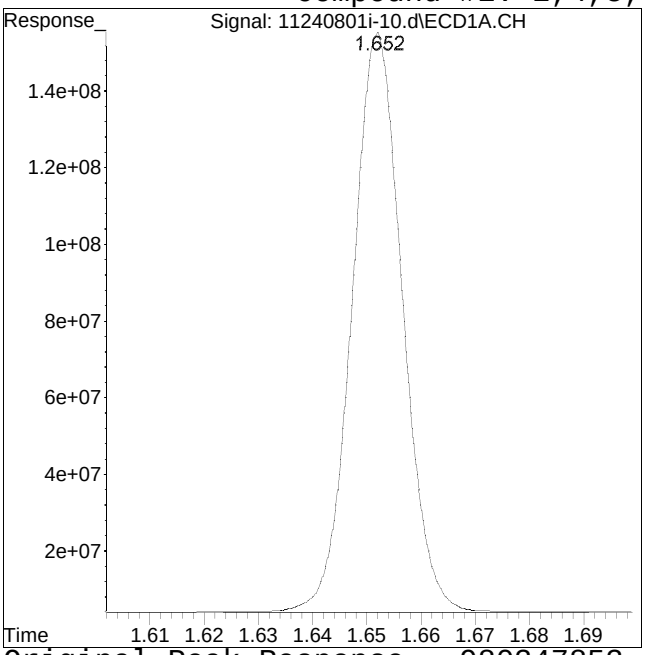


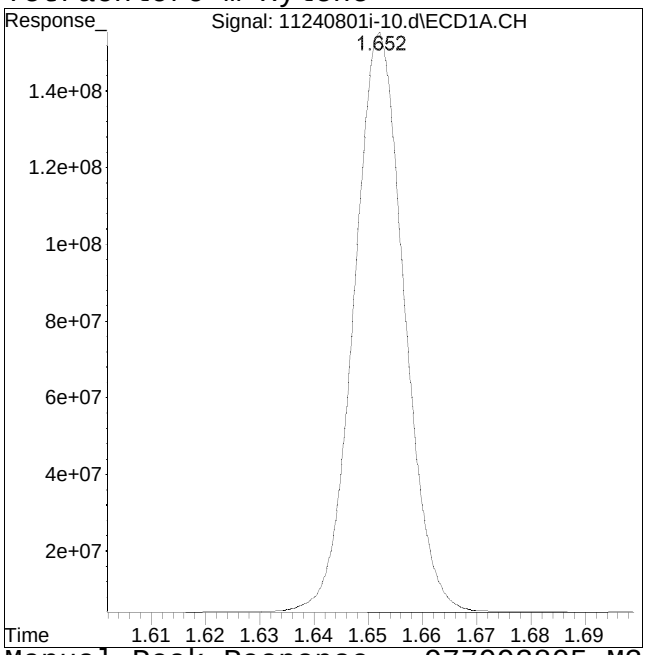
Original Peak Response = 186461988 Manual Peak Response = 185986073 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





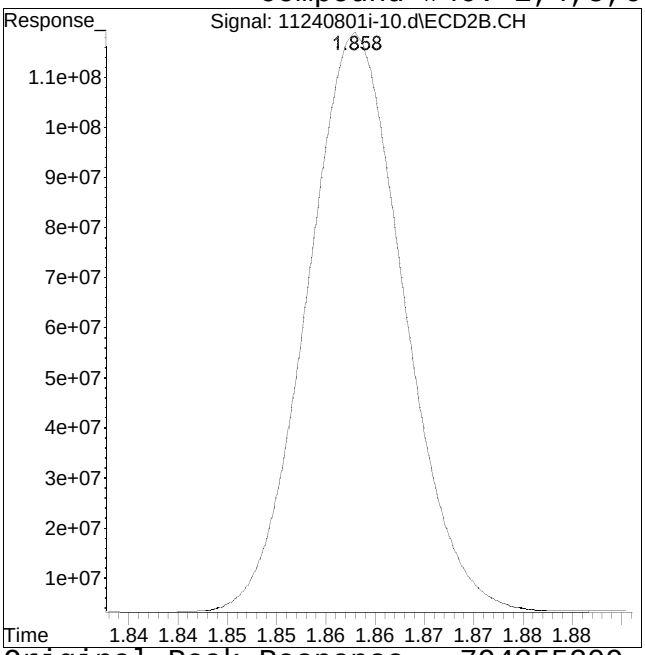
Original Peak Response = 980347853 Manual Peak Response = 977993805 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

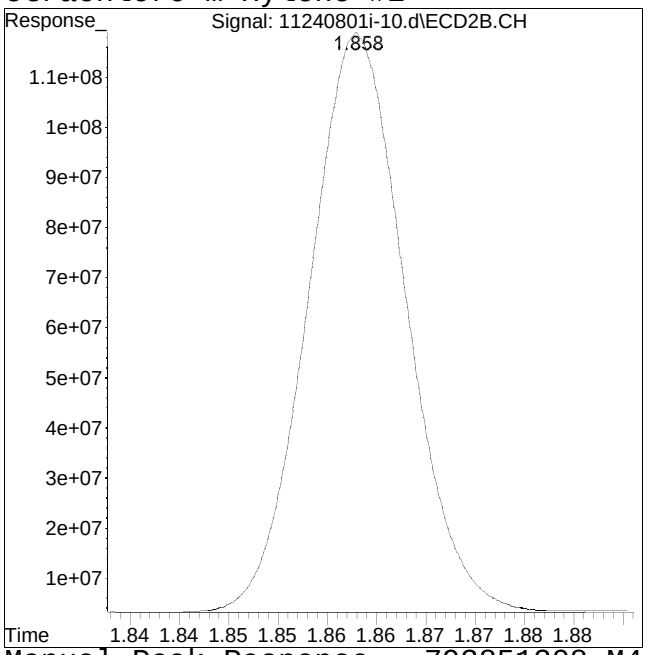
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 794355209



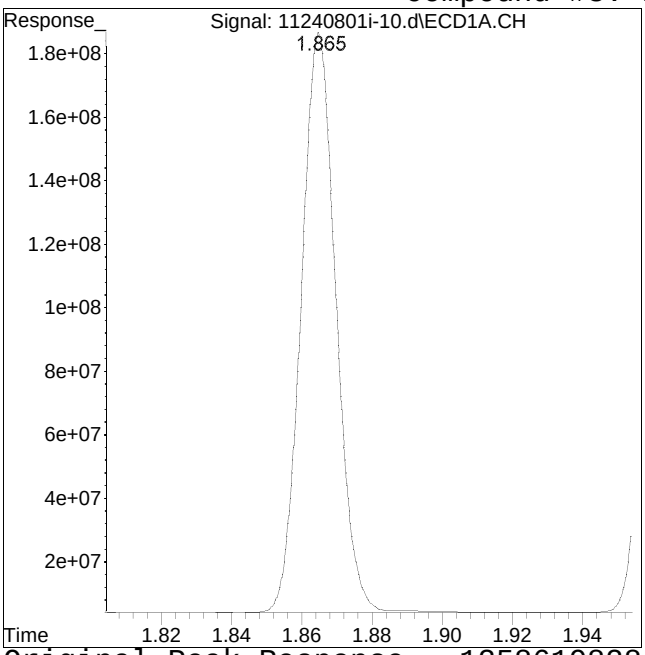
Manual Peak Response = 793851308 M4

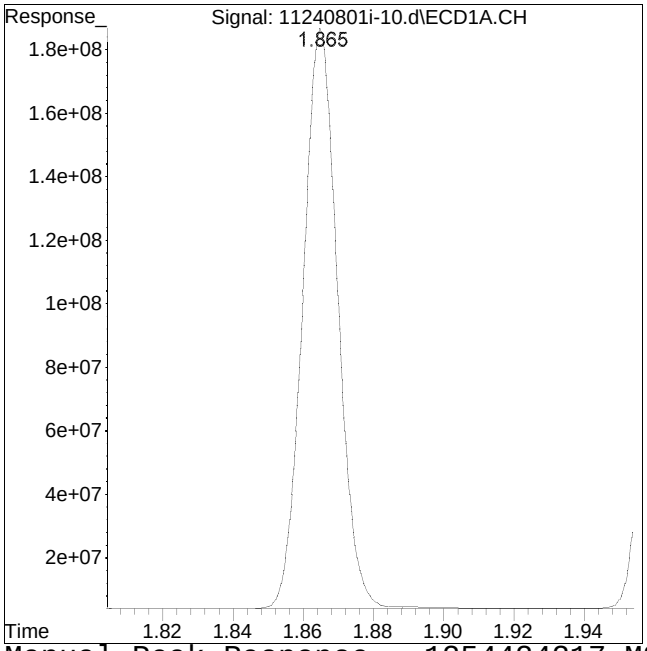
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1 Quant Date : 8/2/2024 9:10 am

Compound #3: Hexachlorobenzene





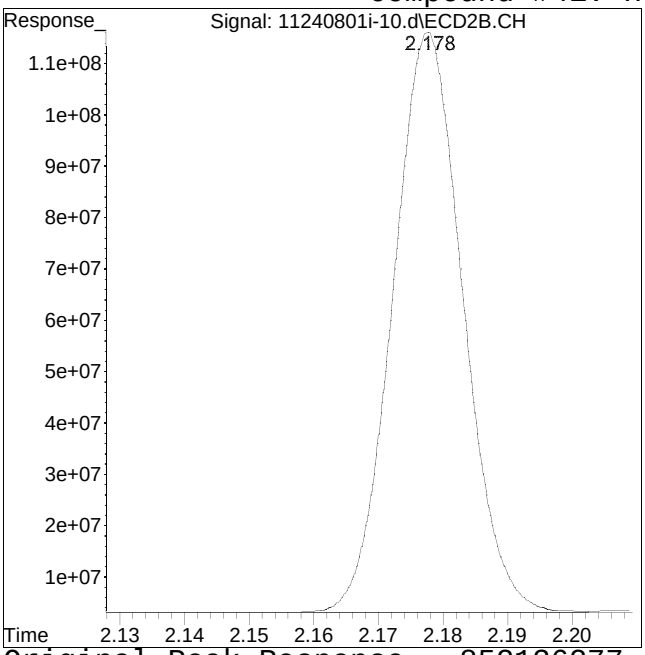
Original Peak Response = 1258619828 Manual Peak Response = 1254424217 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

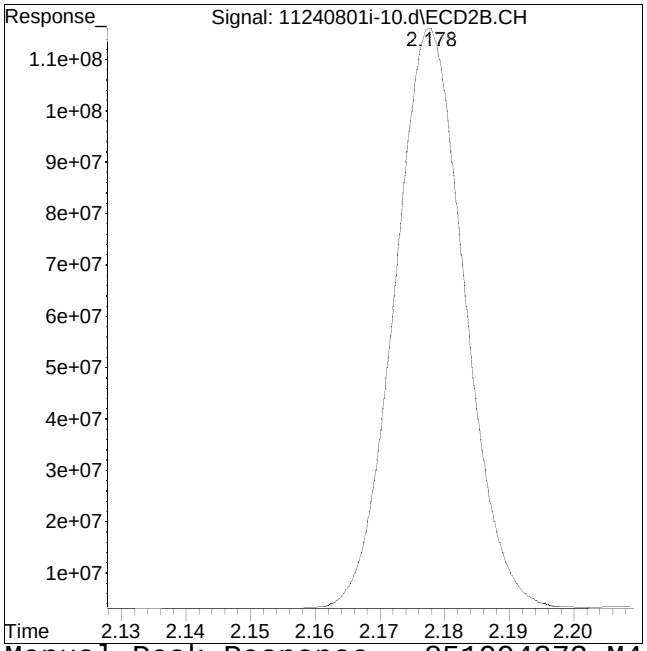
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #41: Hexachlorobenzene #2



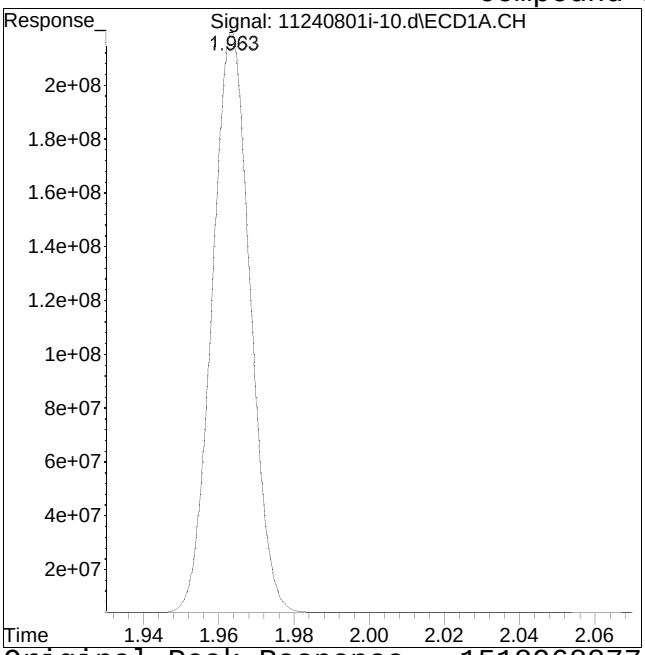


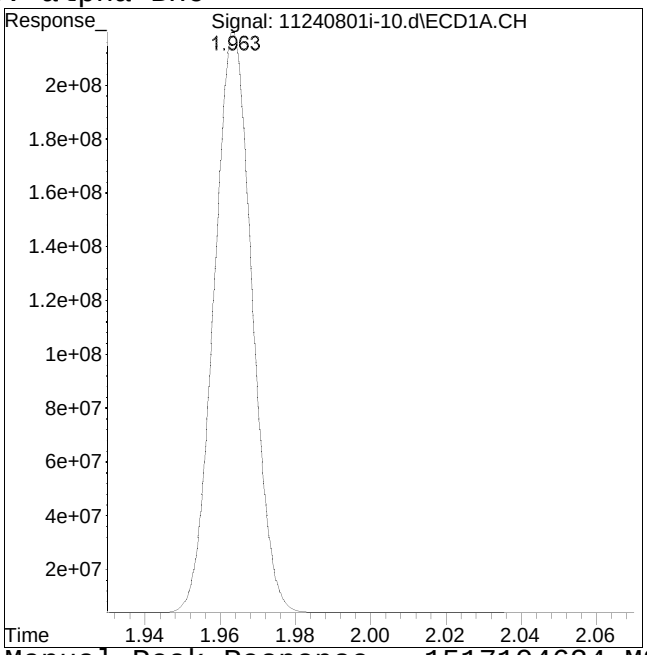
Original Peak Response = 852136277 Manual Peak Response = 851994373 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1 Quant Date : 8/2/2024 9:10 am

Compound #4: alpha-BHC



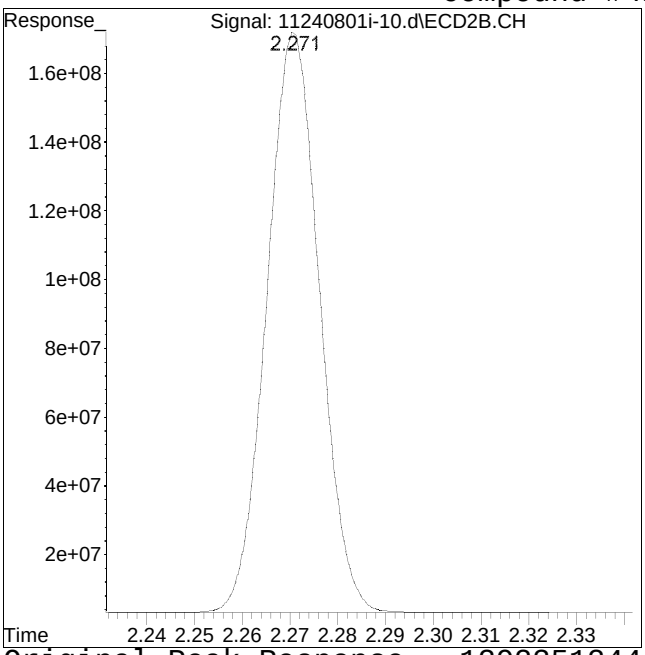


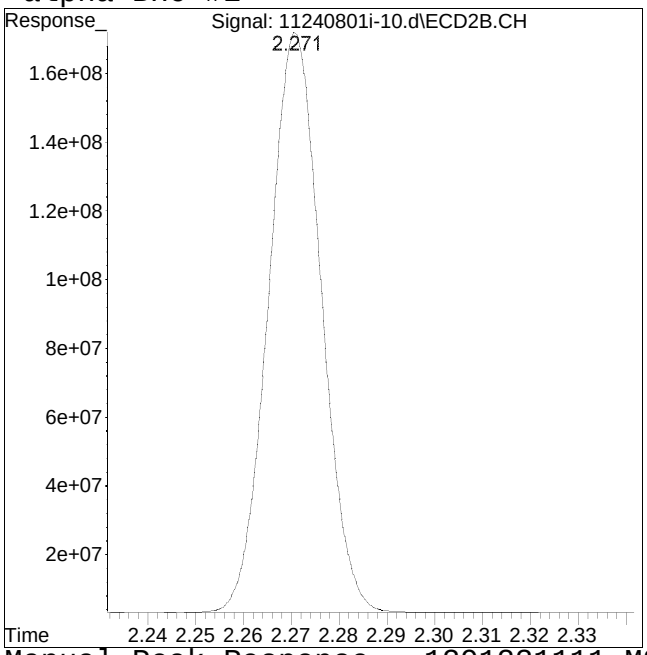
Original Peak Response = 1518968877 Manual Peak Response = 1517104624 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1 Quant Date : 8/2/2024 9:10 am

Compound #42: alpha-BHC #2



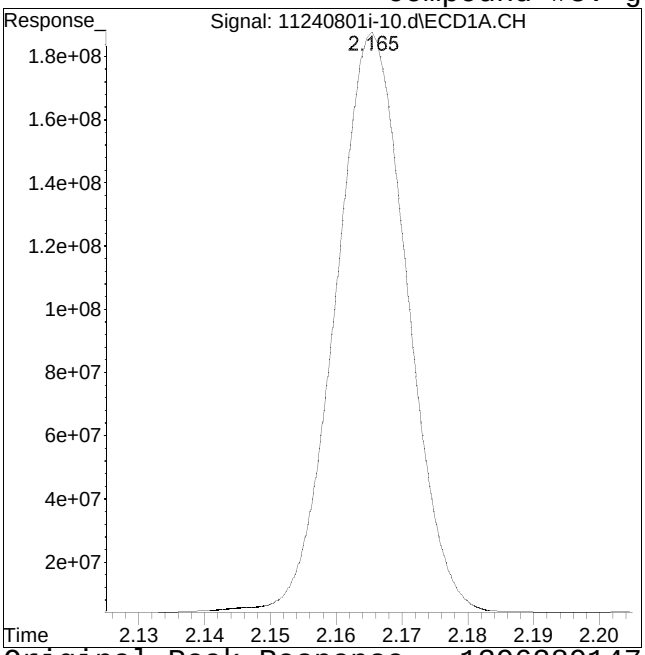


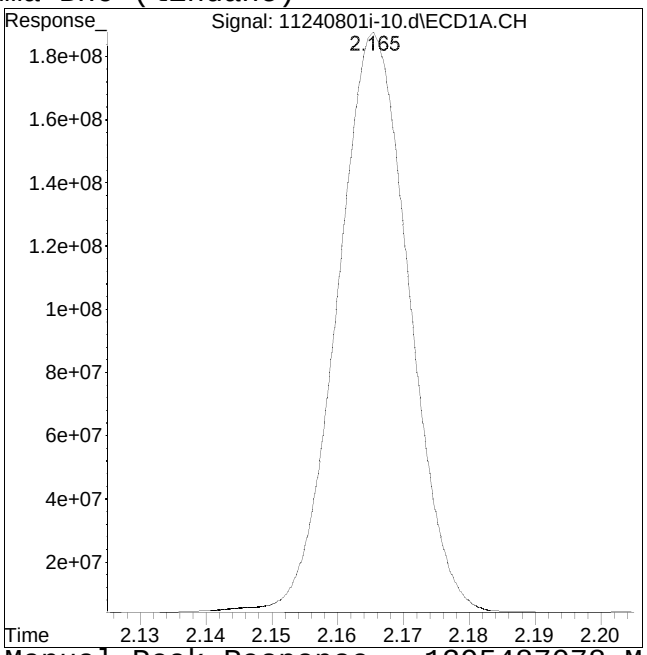
Original Peak Response = 1292351244 Manual Peak Response = 1291231111 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #5: gamma-BHC (lindane)





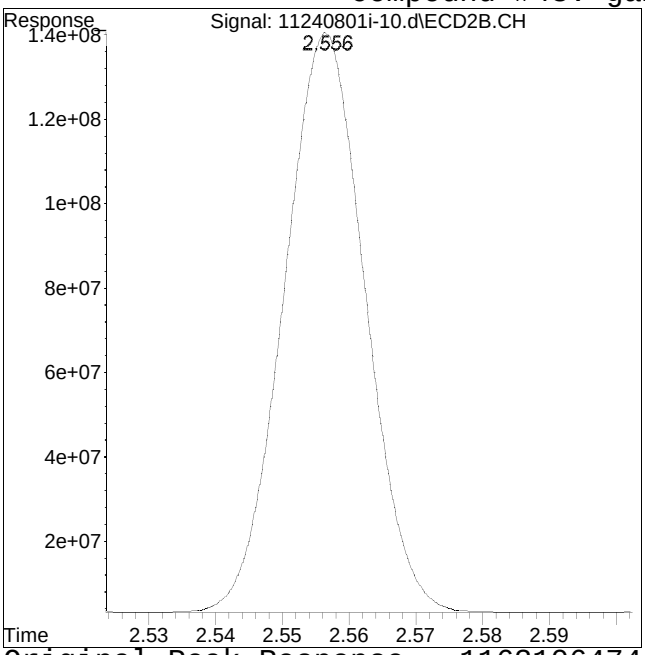
Original Peak Response = 1396289147 Manual Peak Response = 1395487078 M4
M4 = Poor automated baseline construction.

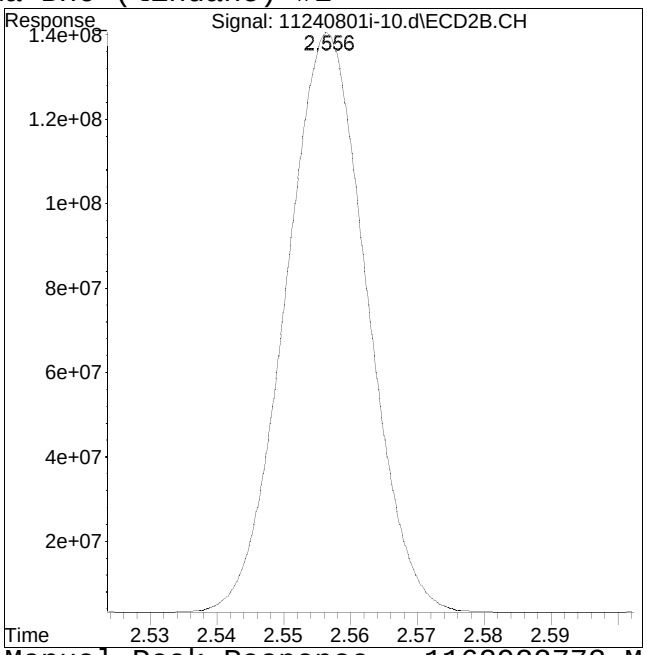
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #43: gamma-BHC (lindane) #2





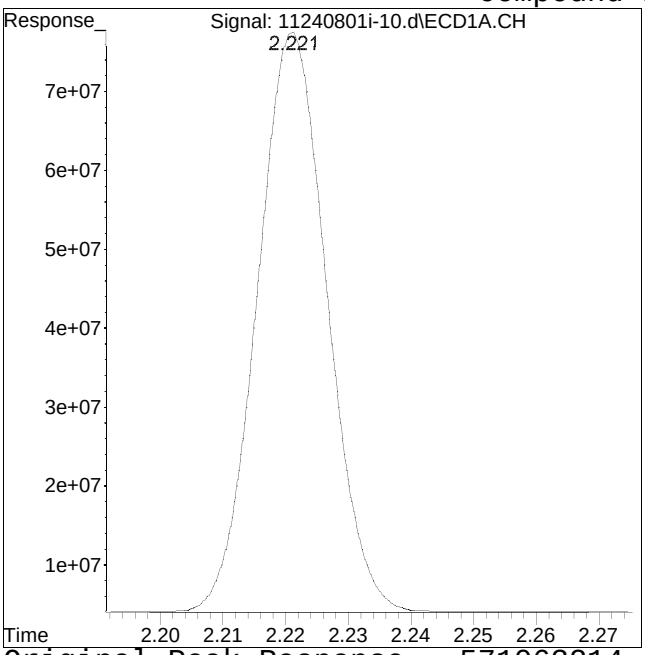
Original Peak Response = 1163106474 Manual Peak Response = 1162922773 M4
M4 = Poor automated baseline construction.

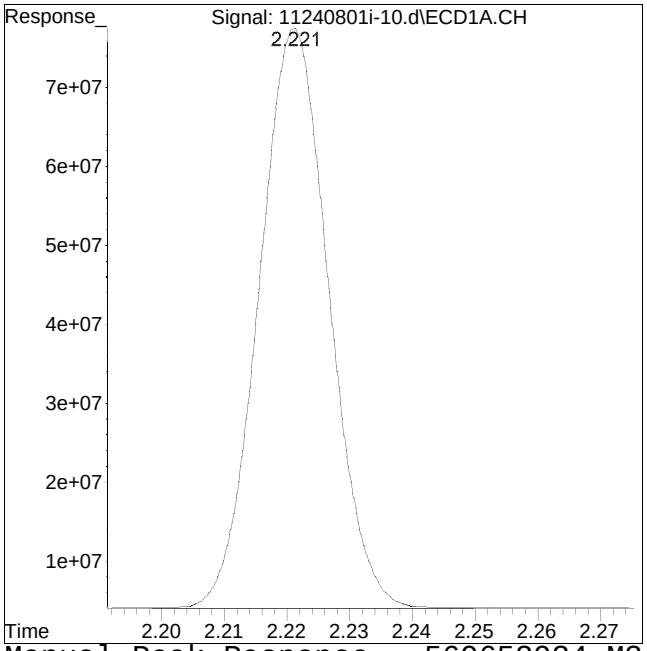
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #6: beta-BHC



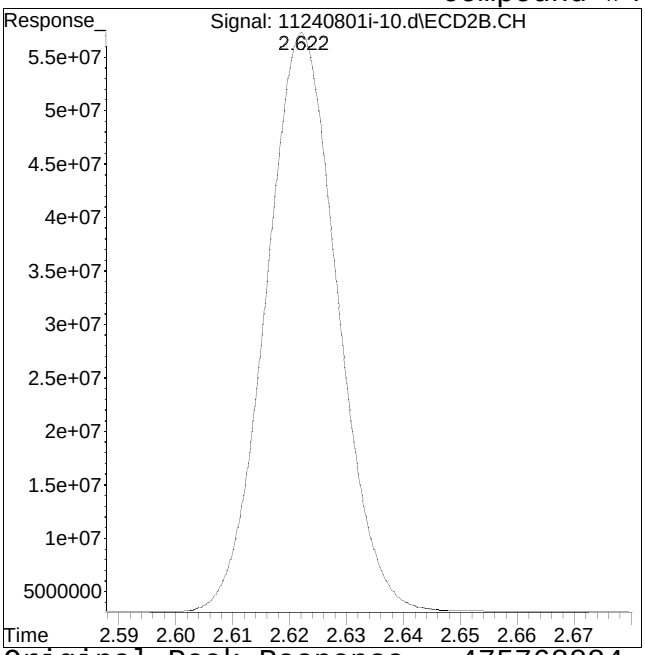


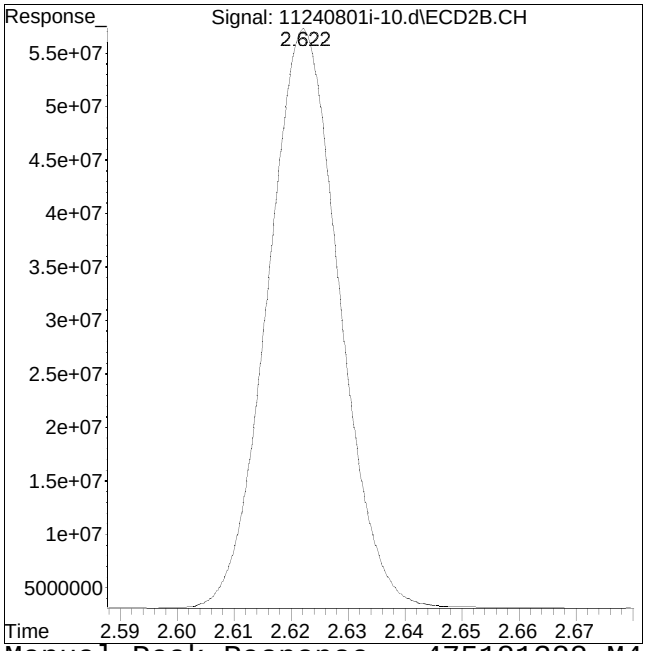
Original Peak Response = 571063214 Manual Peak Response = 569652934 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #44: beta-BHC #2





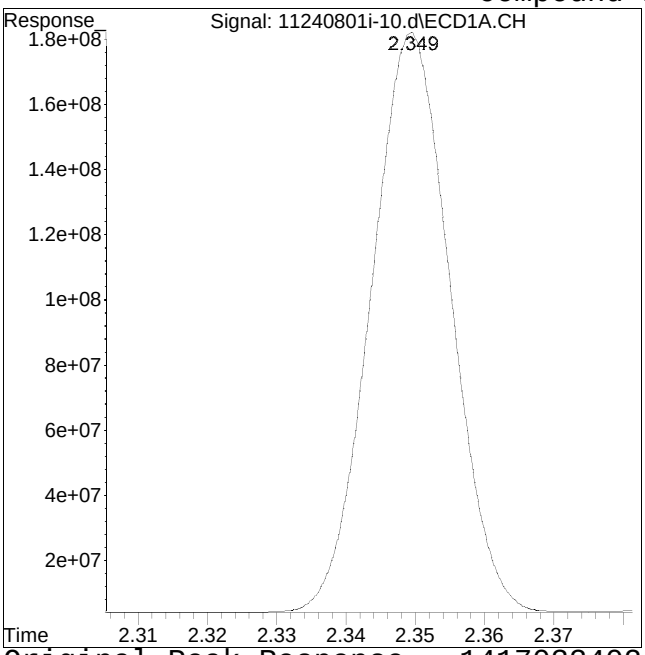
Original Peak Response = 475768884 Manual Peak Response = 475181388 M4
M4 = Poor automated baseline construction.

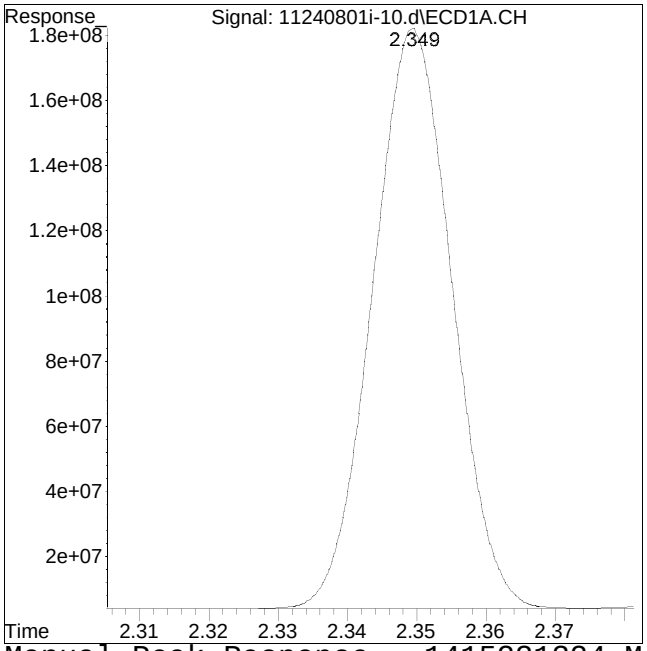
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #7: delta-BHC





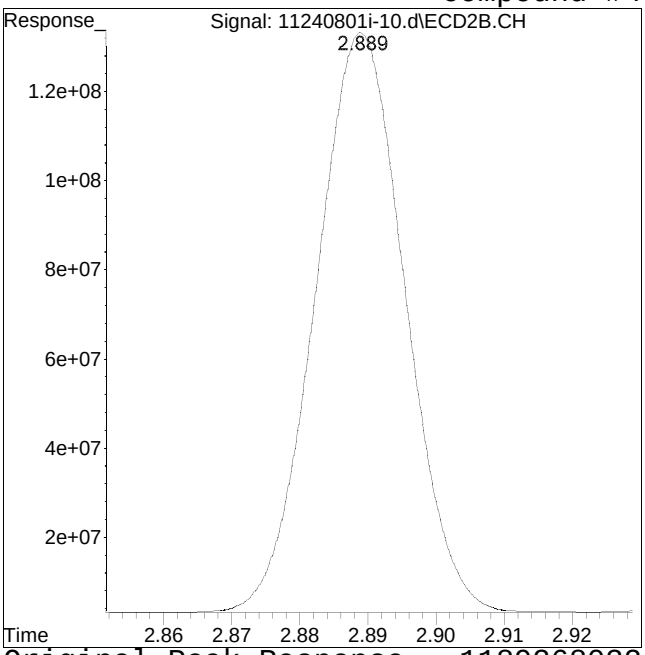
Original Peak Response = 1417033402 Manual Peak Response = 1415231324 M4
M4 = Poor automated baseline construction.

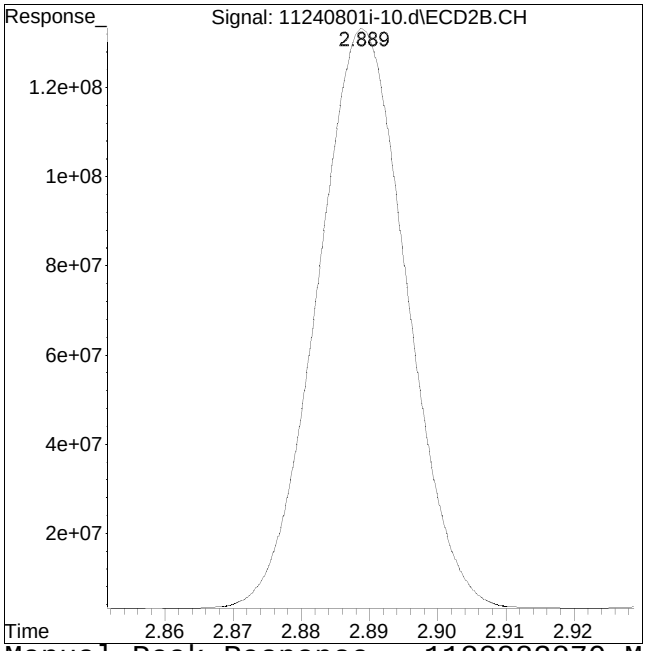
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #45: delta-BHC #2





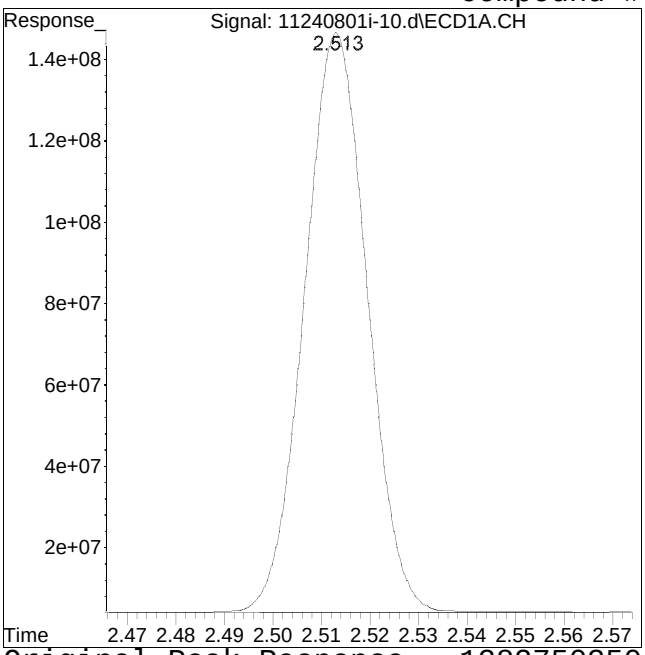
Original Peak Response = 1189268032 Manual Peak Response = 1188883870 M4
M4 = Poor automated baseline construction.

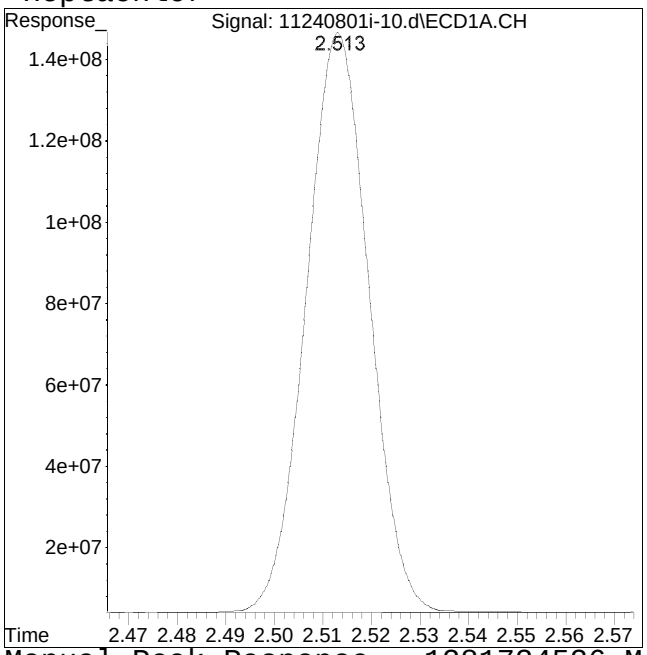
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #8: Heptachlor





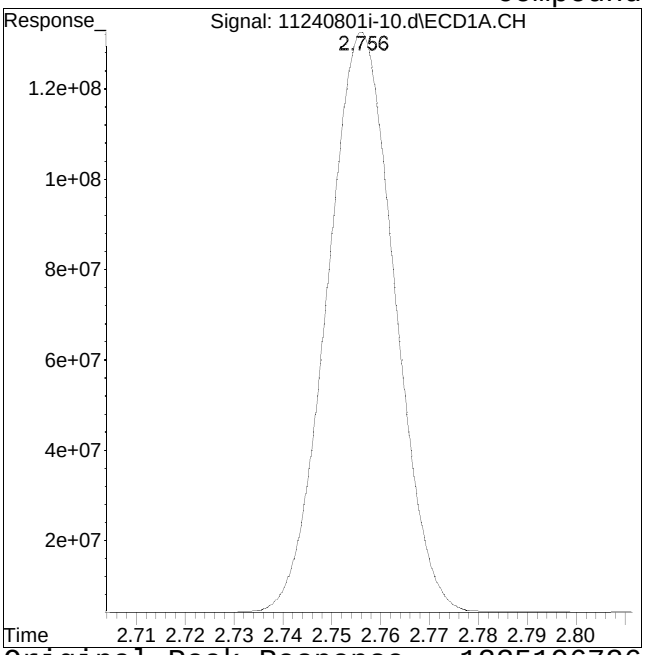
Original Peak Response = 1282750350 Manual Peak Response = 1281734526 M4
M4 = Poor automated baseline construction.

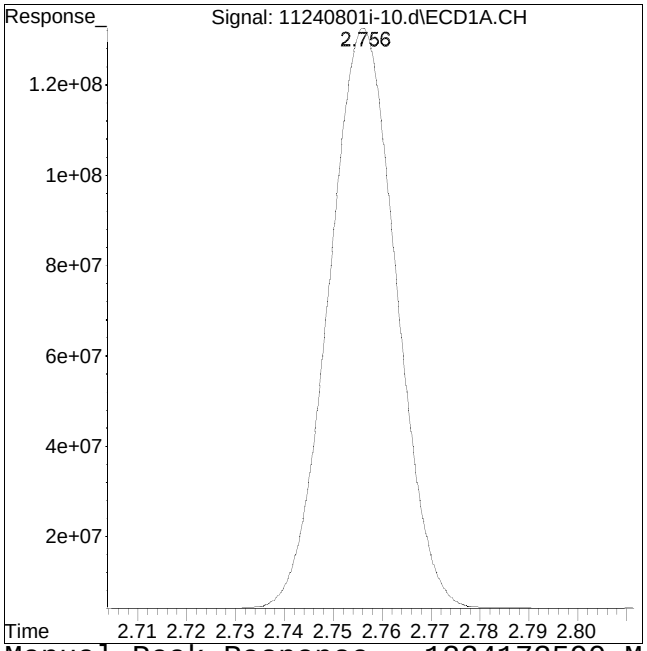
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #9: Aldrin





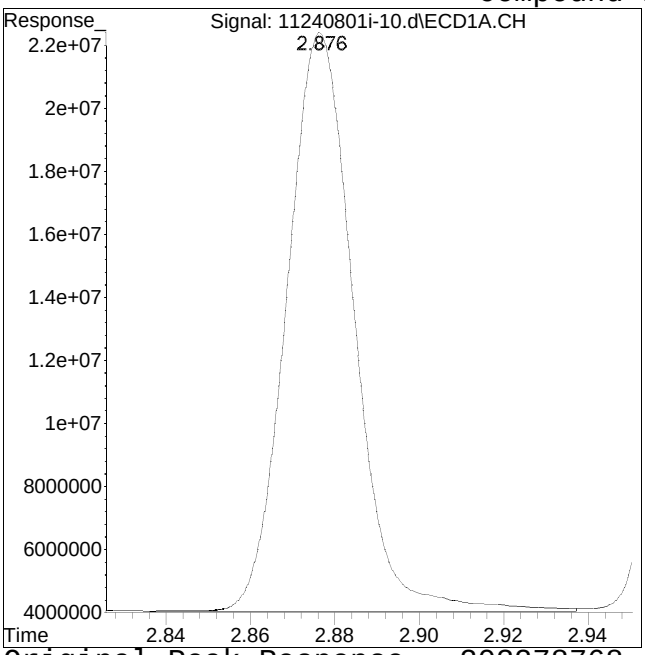
Original Peak Response = 1235196726 Manual Peak Response = 1234173590 M4
M4 = Poor automated baseline construction.

Manual Integration Report

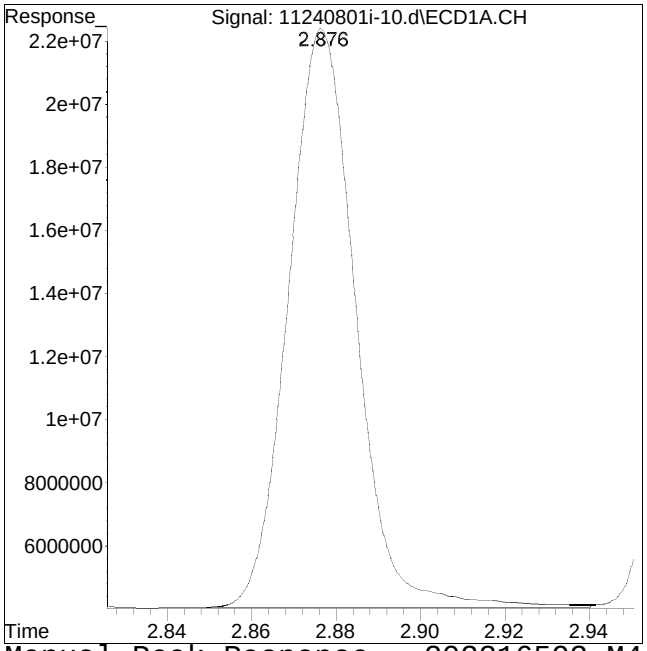
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #10: Alachlor



Original Peak Response = 203278768



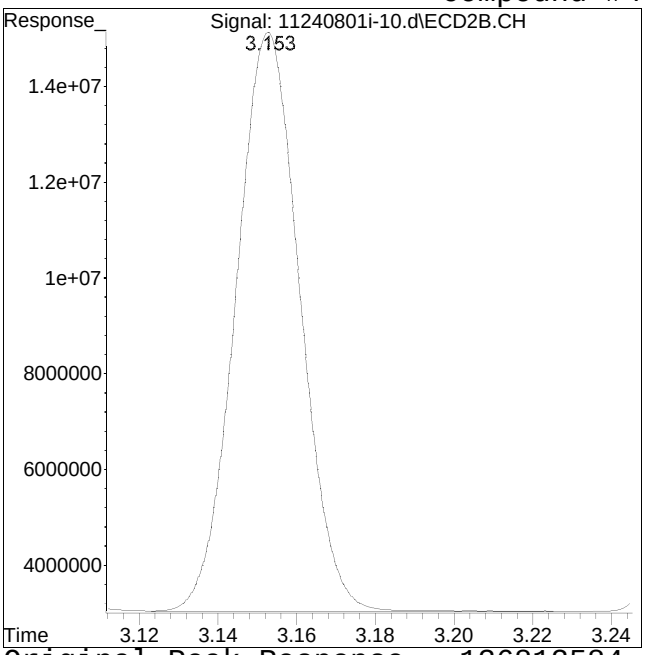
Manual Peak Response = 202316593 M4

M4 = Poor automated baseline construction.

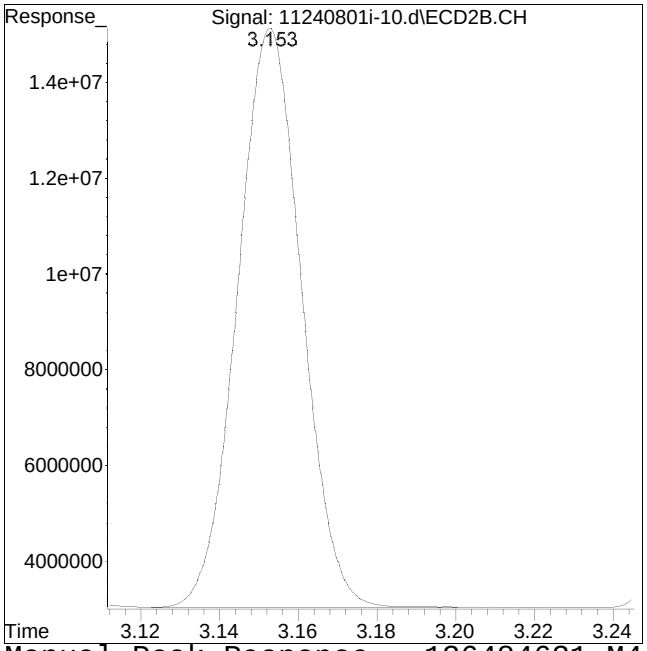
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #48: Alachlor #2



Original Peak Response = 136812584



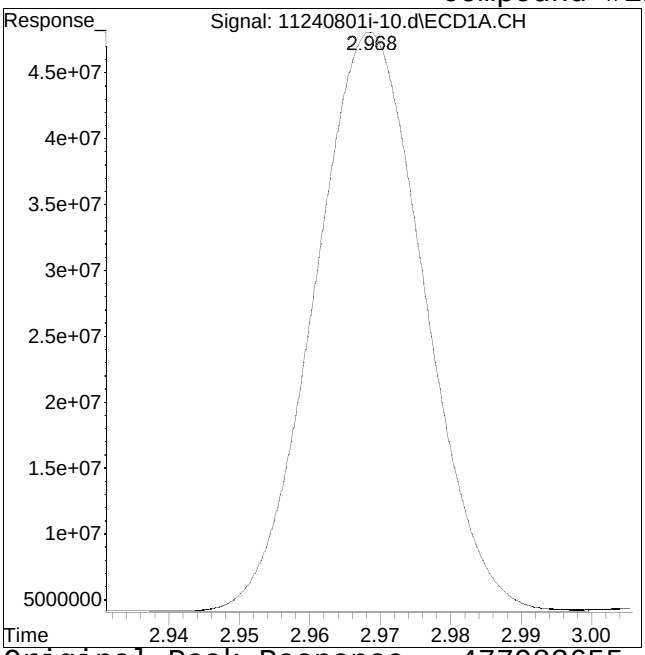
Manual Peak Response = 136484631 M4
M4 = Poor automated baseline construction.

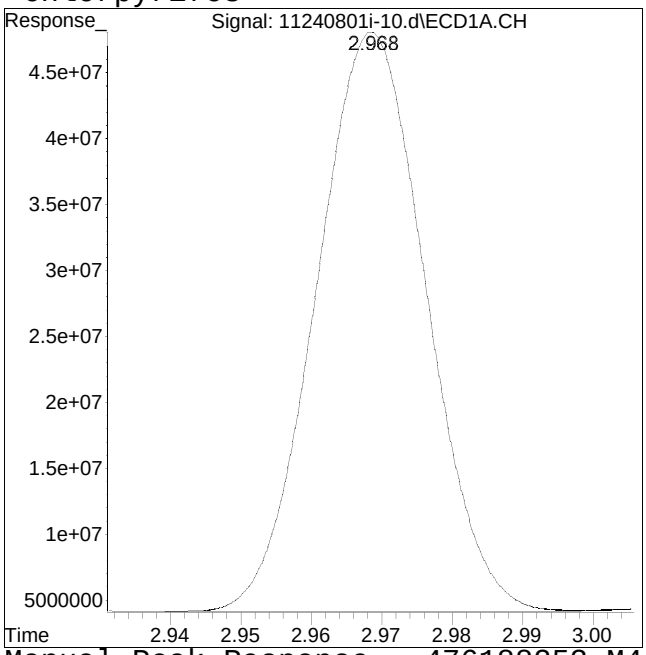
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #11: Chlorpyrifos



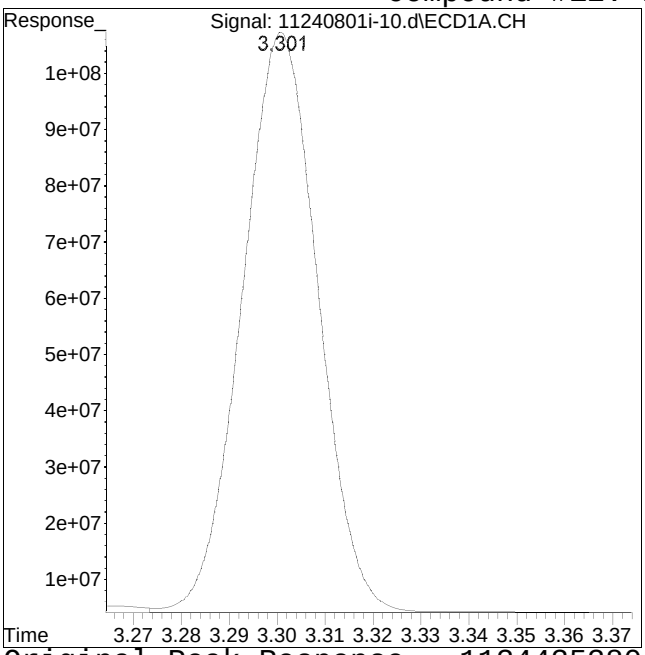


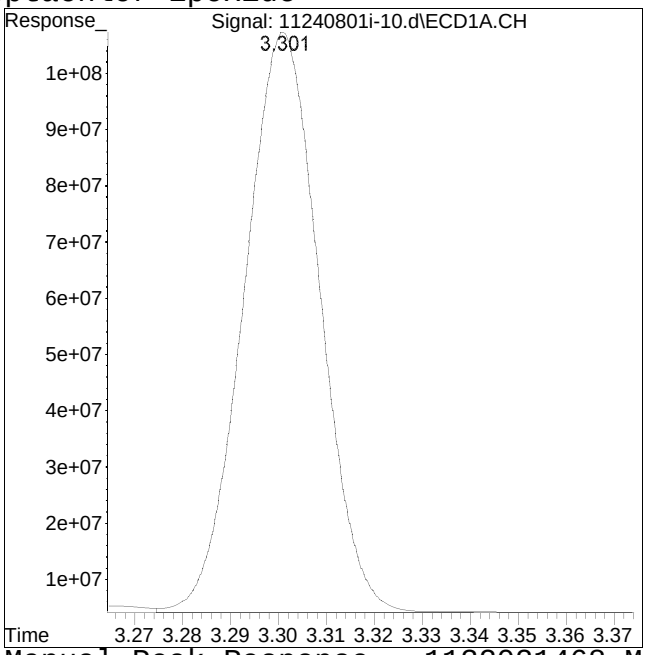
Original Peak Response = 477982655 Manual Peak Response = 476188253 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #12: Heptachlor Epoxide



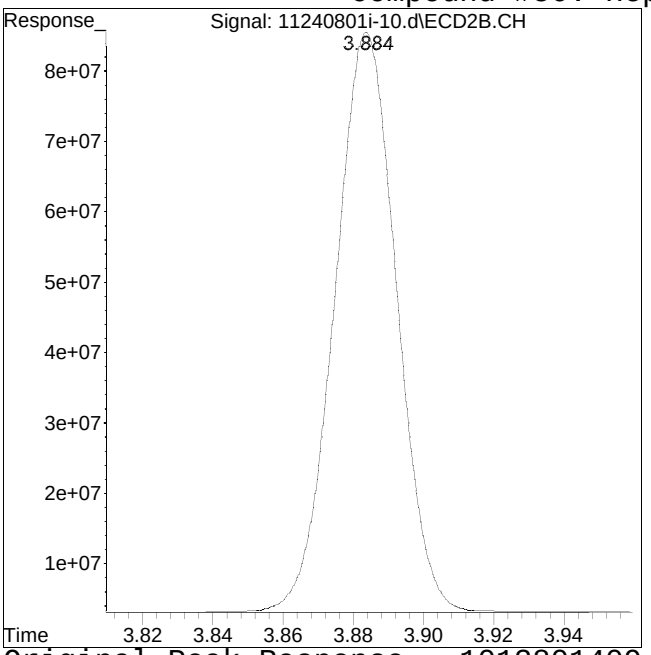


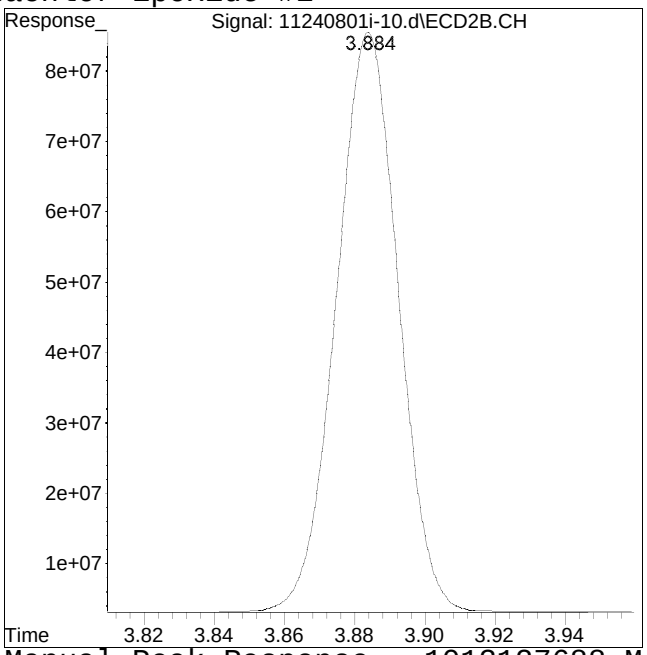
Original Peak Response = 1134435380 Manual Peak Response = 1132021468 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #50: Heptachlor Epoxide #2





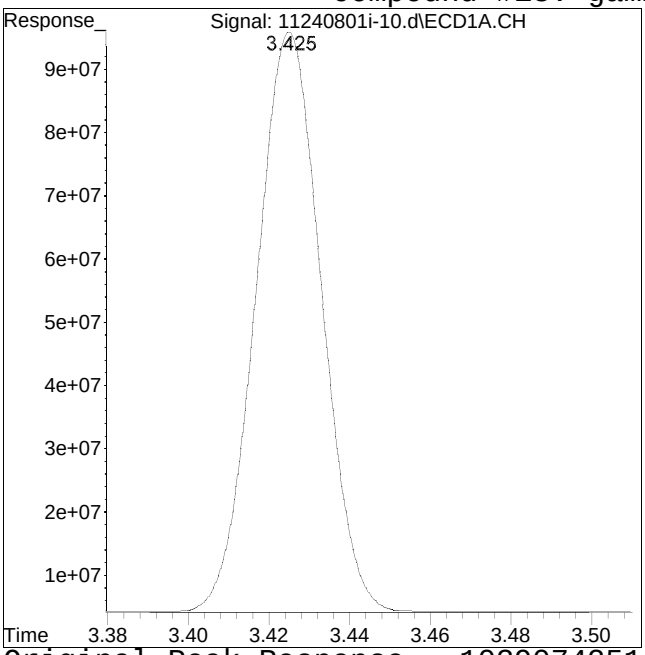
Original Peak Response = 1013801409 Manual Peak Response = 1013127688 M4
M4 = Poor automated baseline construction.

Manual Integration Report

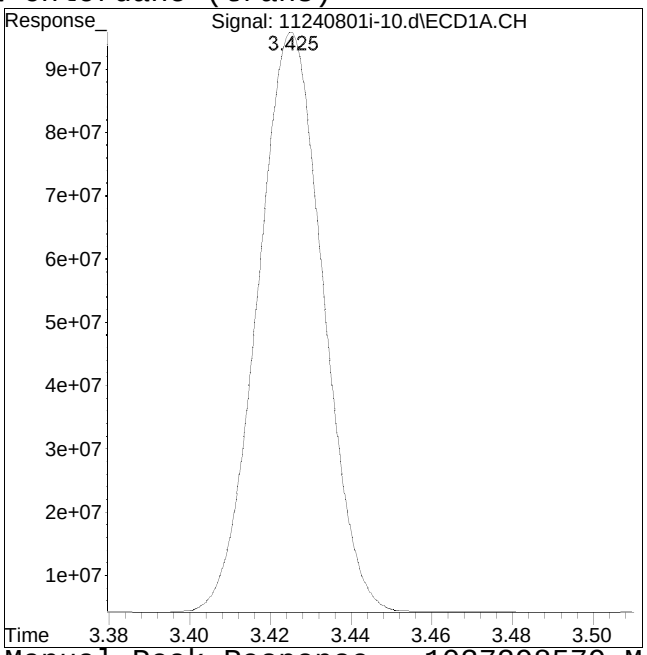
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 1039074251



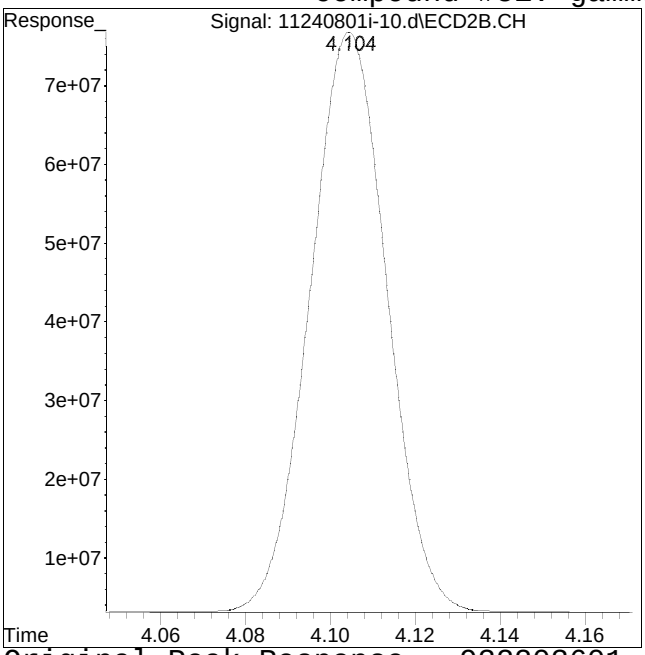
Manual Peak Response = 1037298579 M4

M4 = Poor automated baseline construction.

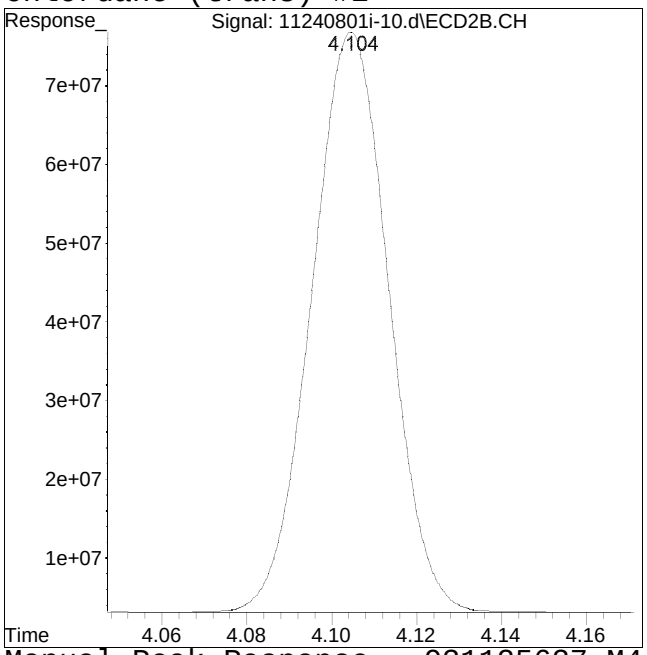
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 932203601



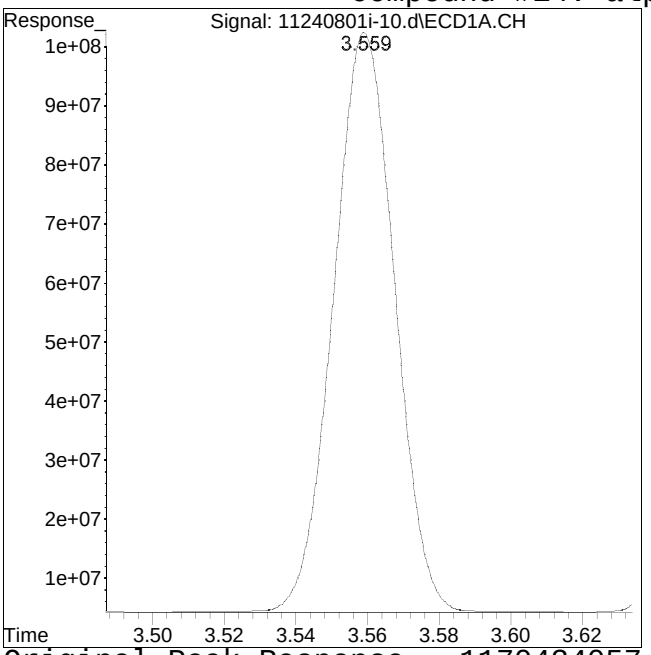
Manual Peak Response = 931125627 M4
M4 = Poor automated baseline construction.

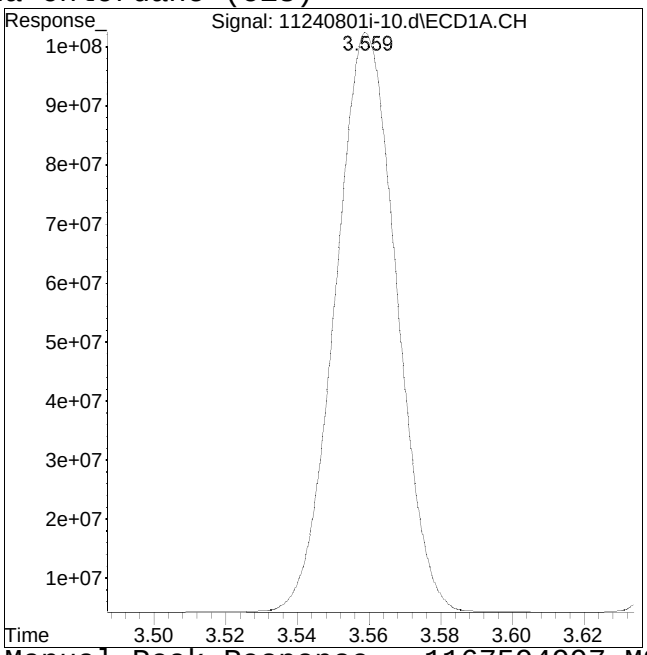
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #14: alpha-Chlordane (cis)





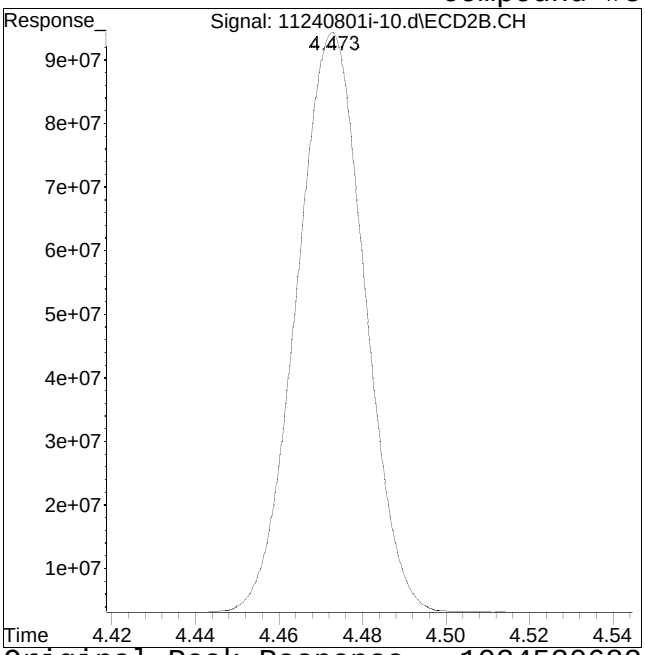
Original Peak Response = 1170434057 Manual Peak Response = 1167594997 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

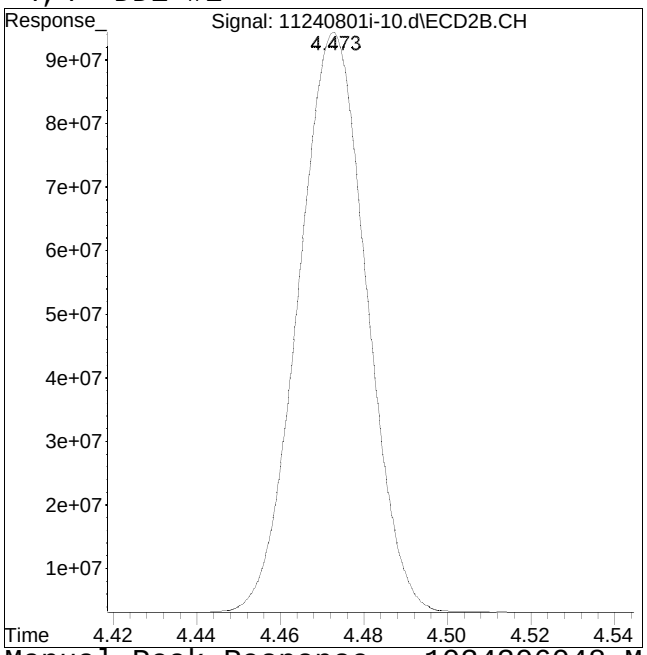
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #53: 4,4'-DDE #2





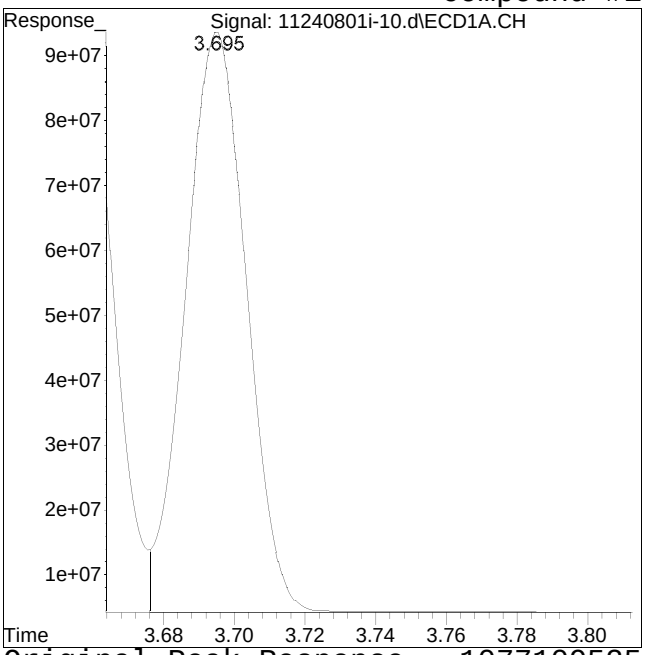
Original Peak Response = 1034530682 Manual Peak Response = 1034306048 M4
M4 = Poor automated baseline construction.

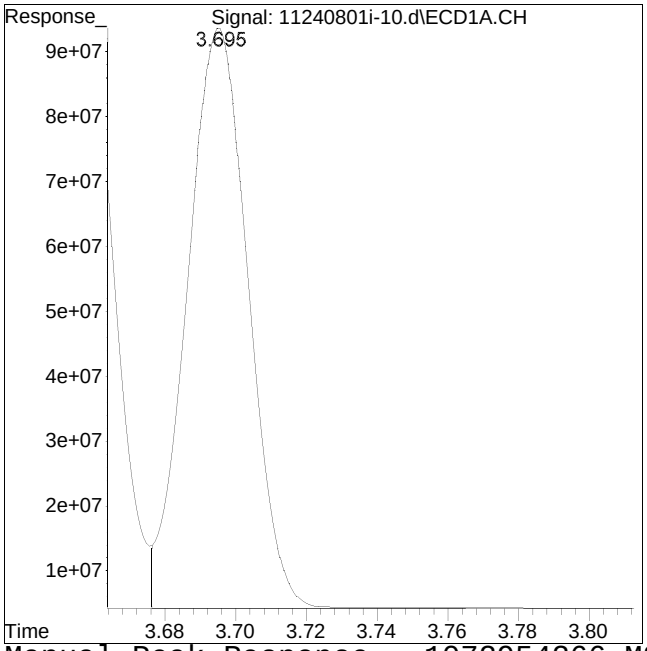
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #16: Endosulfan I





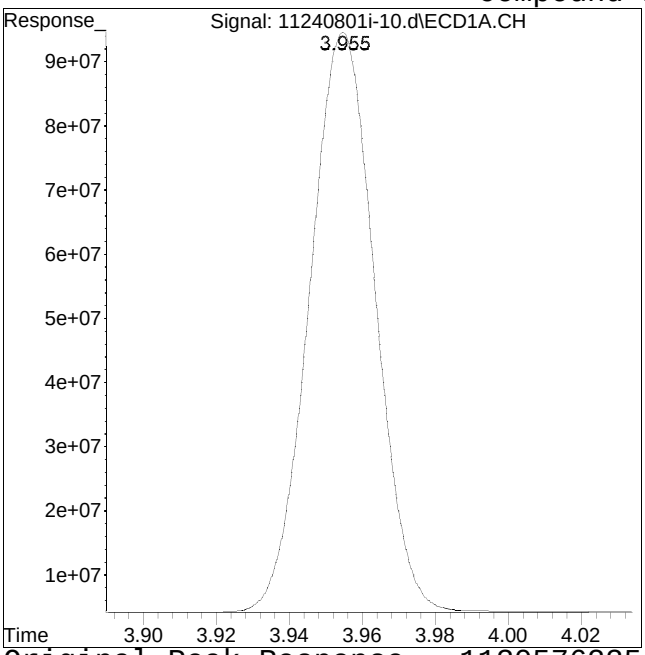
Original Peak Response = 1077109525 Manual Peak Response = 1072954266 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

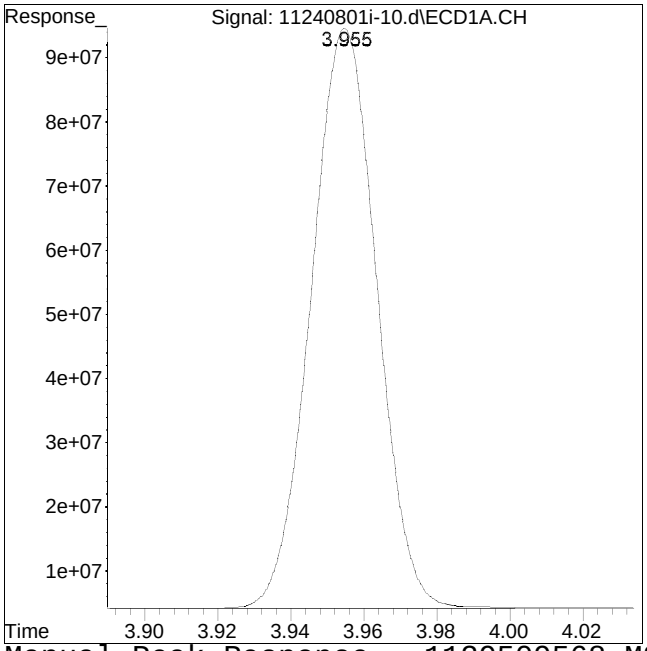
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #17: Dieldrin



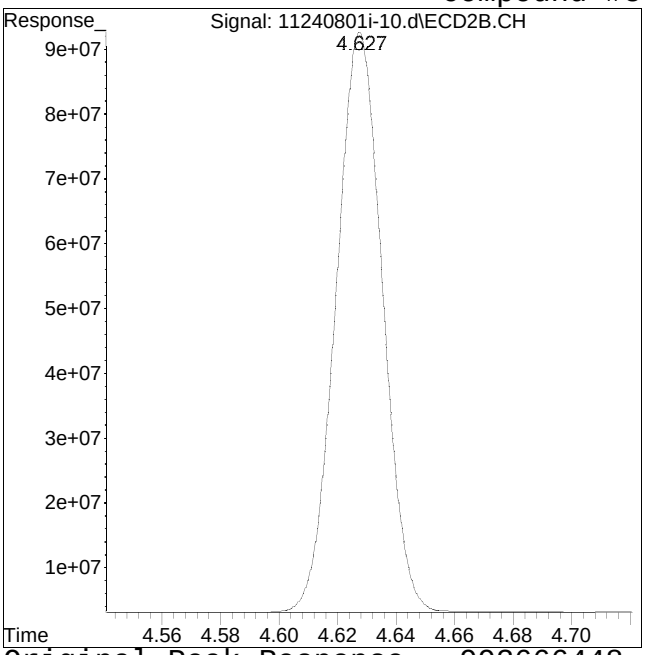


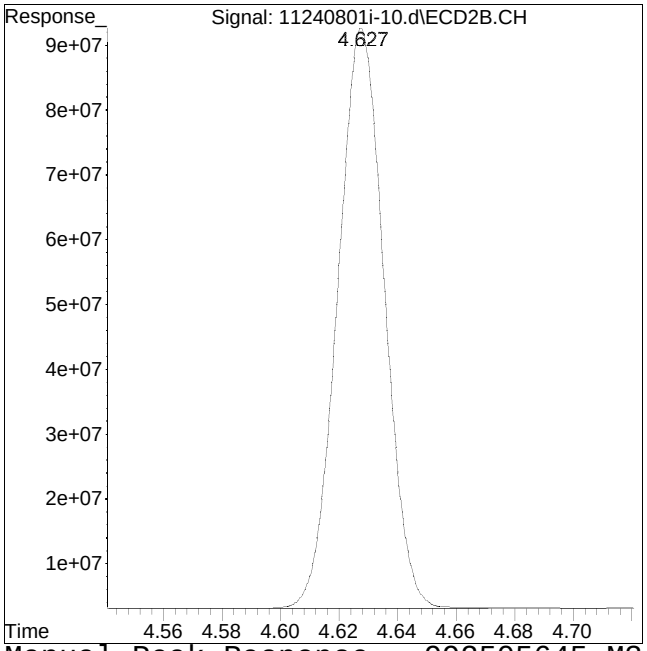
Original Peak Response = 1130576235 Manual Peak Response = 1129509568 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #55: Dieldrin #2



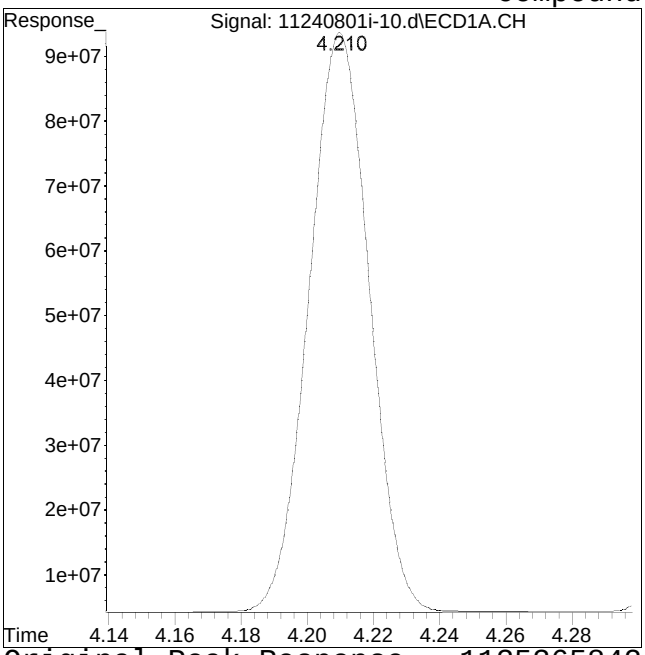


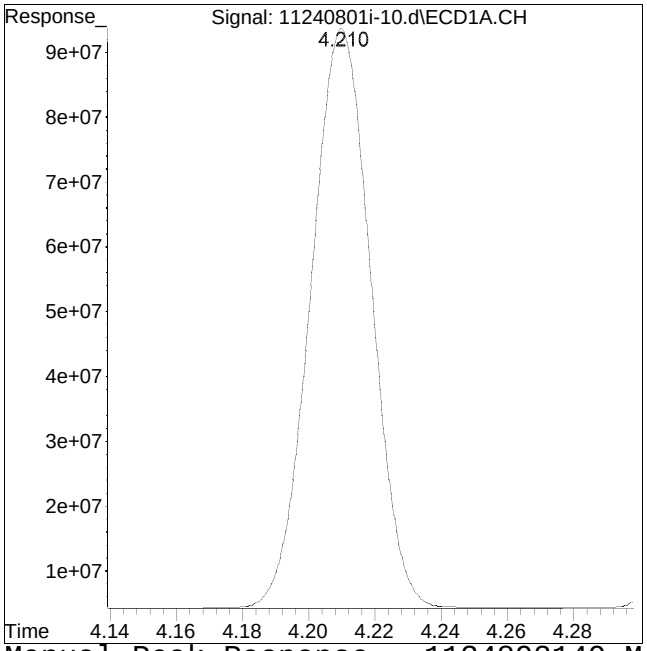
Original Peak Response = 993666448 Manual Peak Response = 992505645 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #18: Endrin



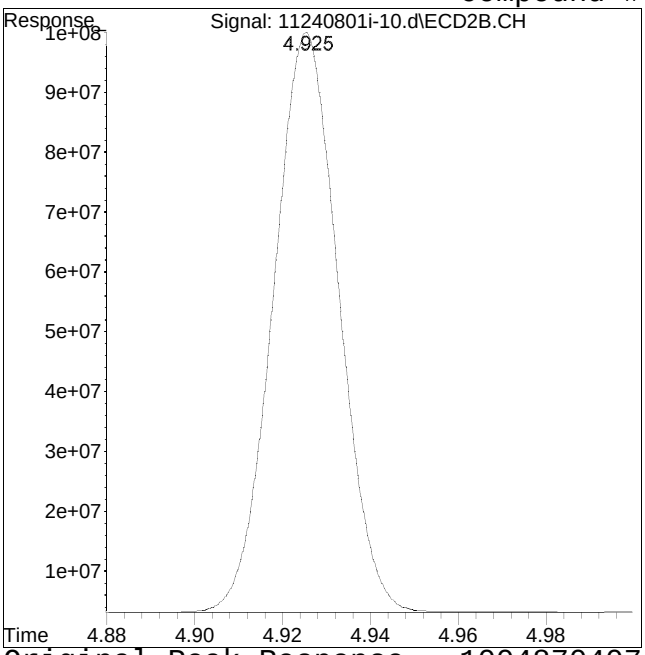


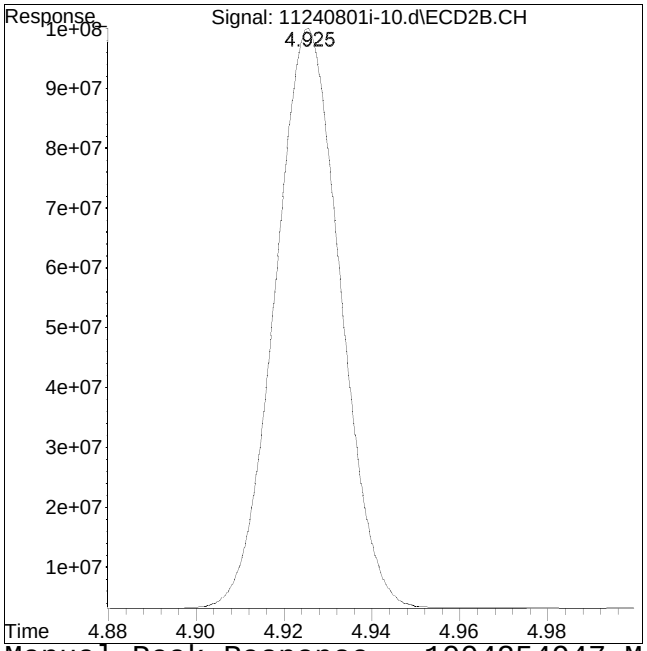
Original Peak Response = 1135365842 Manual Peak Response = 1134892149 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #56: Endrin #2





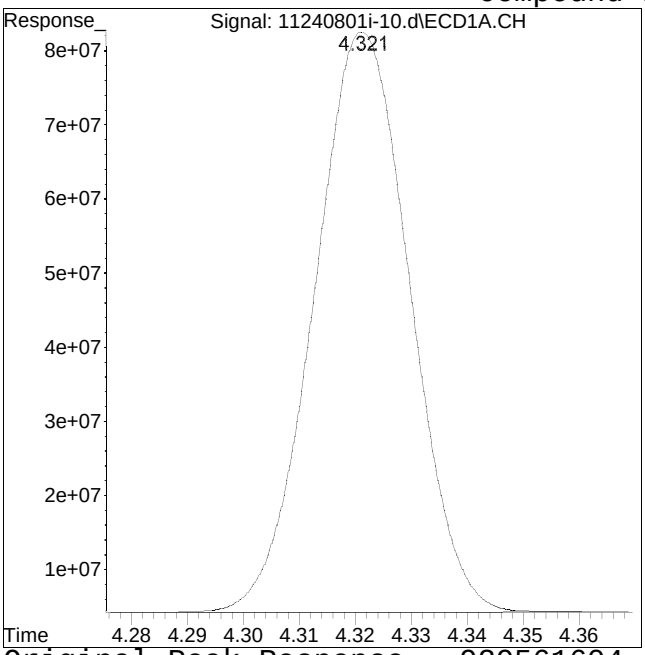
Original Peak Response = 1004870407 Manual Peak Response = 1004254947 M4
M4 = Poor automated baseline construction.

Manual Integration Report

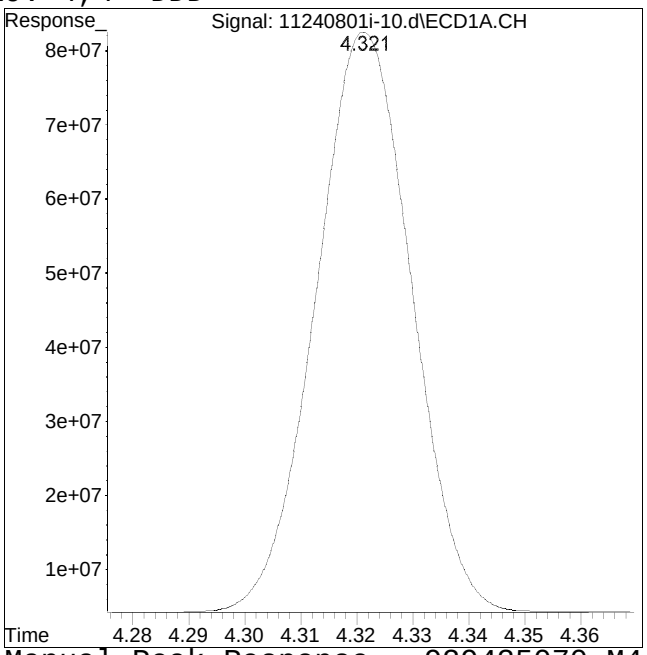
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #19: 4,4'-DDD



Original Peak Response = 929561604



Manual Peak Response = 929435070 M4

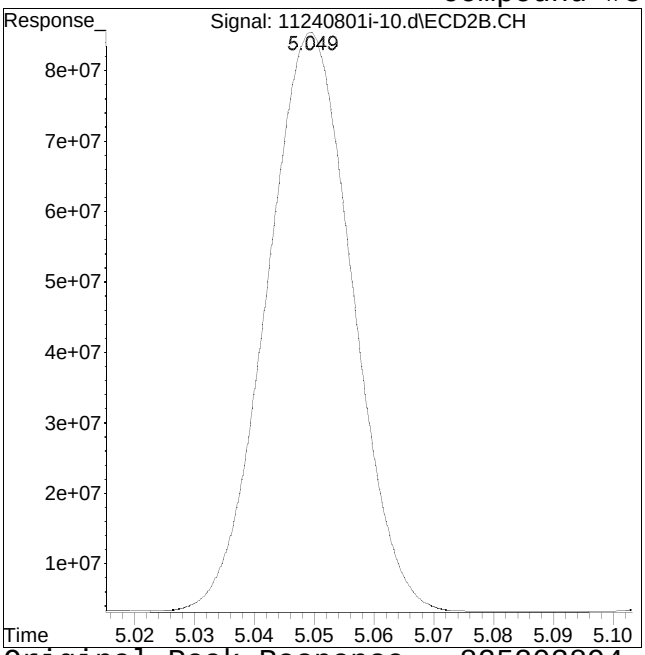
M4 = Poor automated baseline construction.

Manual Integration Report

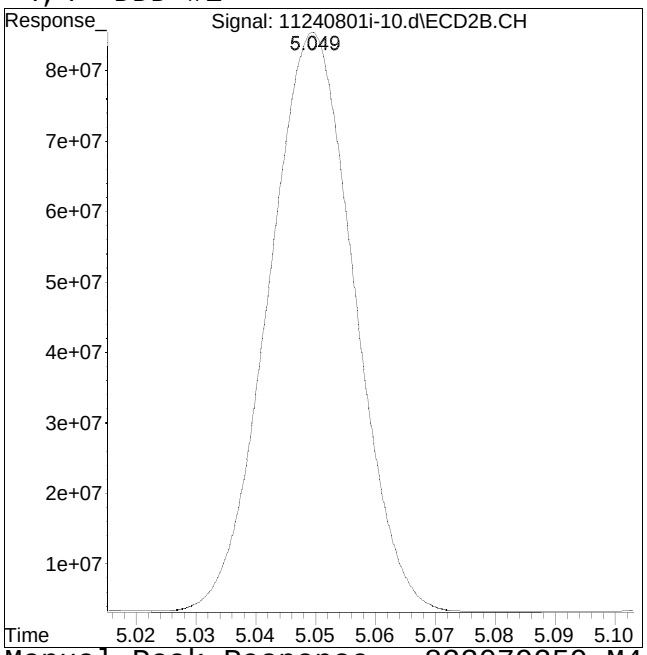
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 825203894



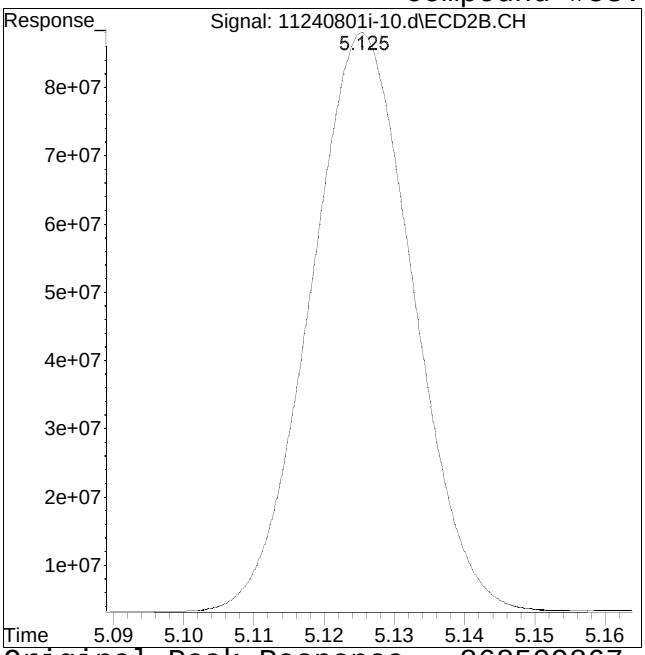
Manual Peak Response = 823079259 M4

M4 = Poor automated baseline construction.

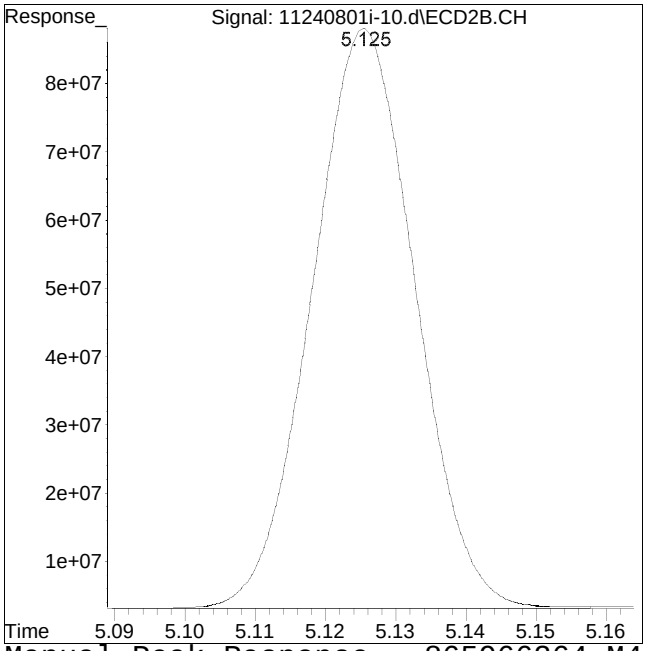
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #58: Endosulfan II #2



Original Peak Response = 868509867



Manual Peak Response = 865966264 M4

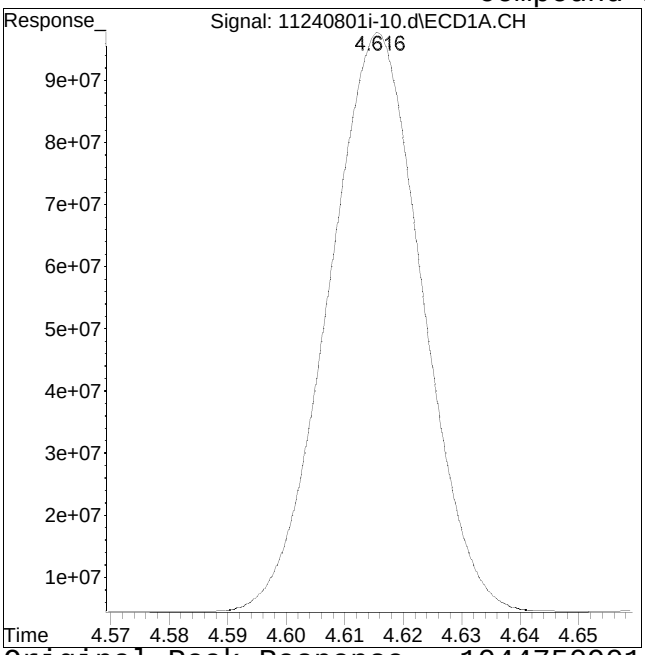
M4 = Poor automated baseline construction.

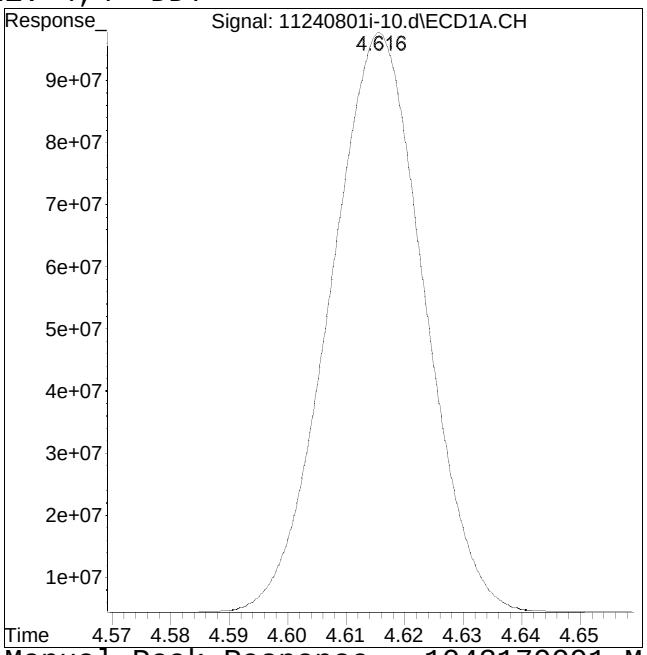
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #21: 4,4'-DDT





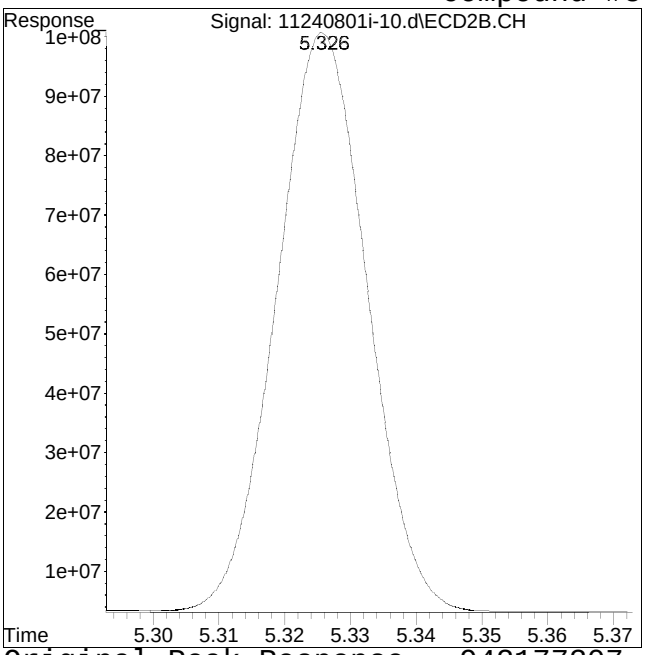
Original Peak Response = 1044750901 Manual Peak Response = 1043179991 M4
M4 = Poor automated baseline construction.

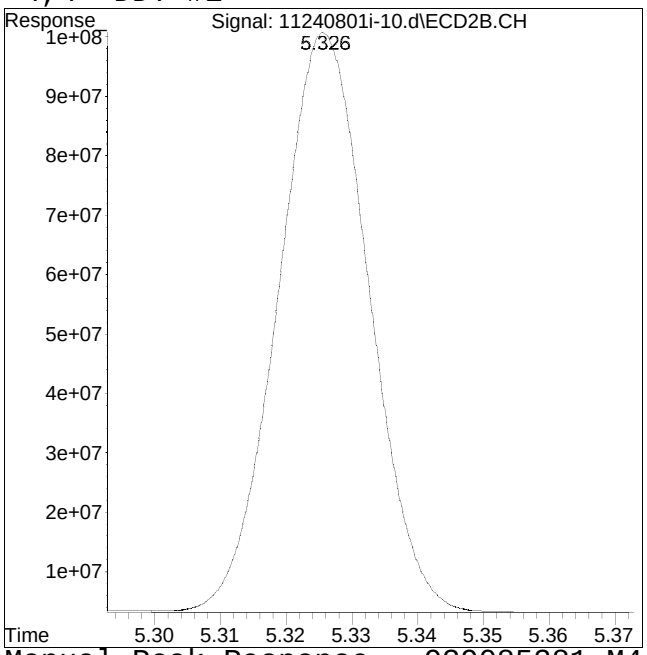
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #59: 4,4'-DDT #2





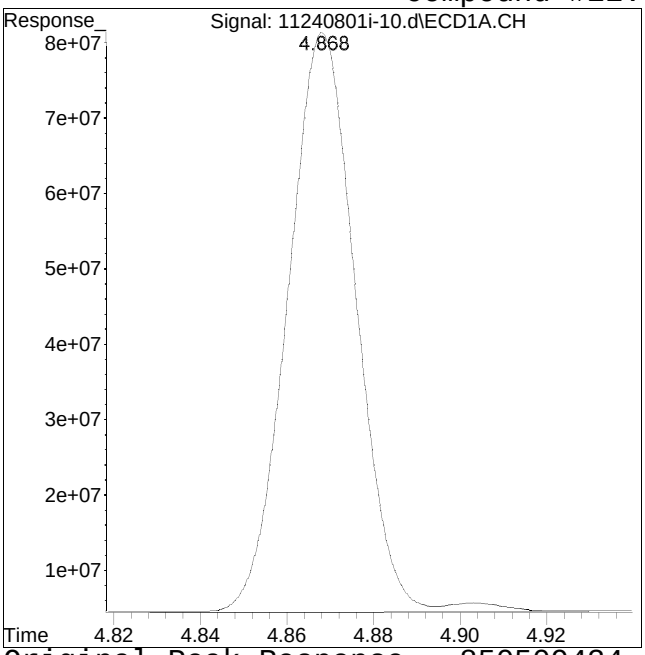
Original Peak Response = 942177307 Manual Peak Response = 939085381 M4
M4 = Poor automated baseline construction.

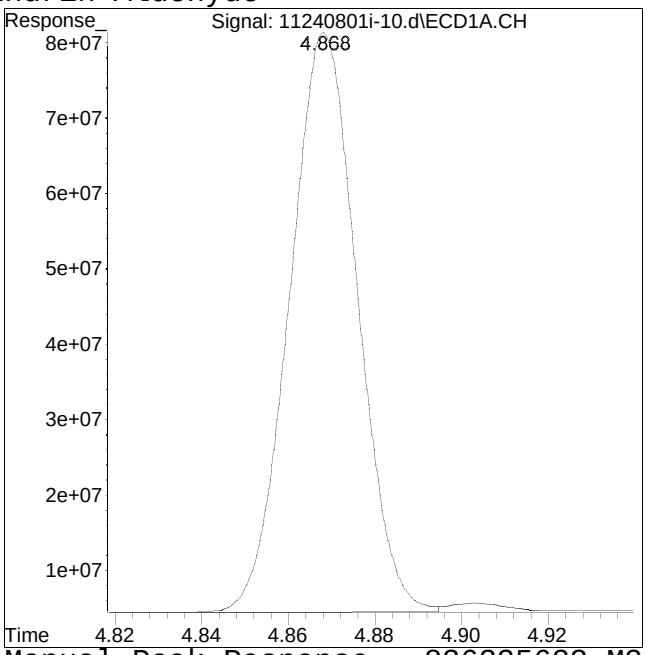
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #22: Endrin Aldehyde





Original Peak Response = 850509434 Manual Peak Response = 836335623 M3

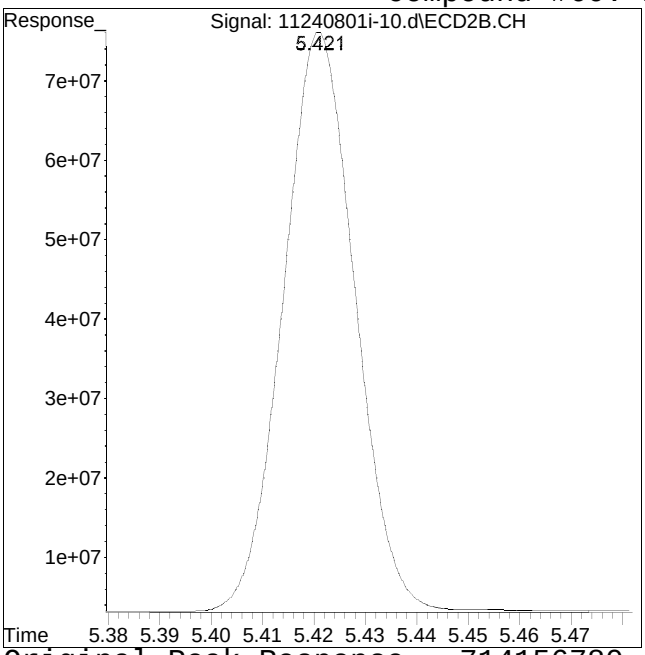
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

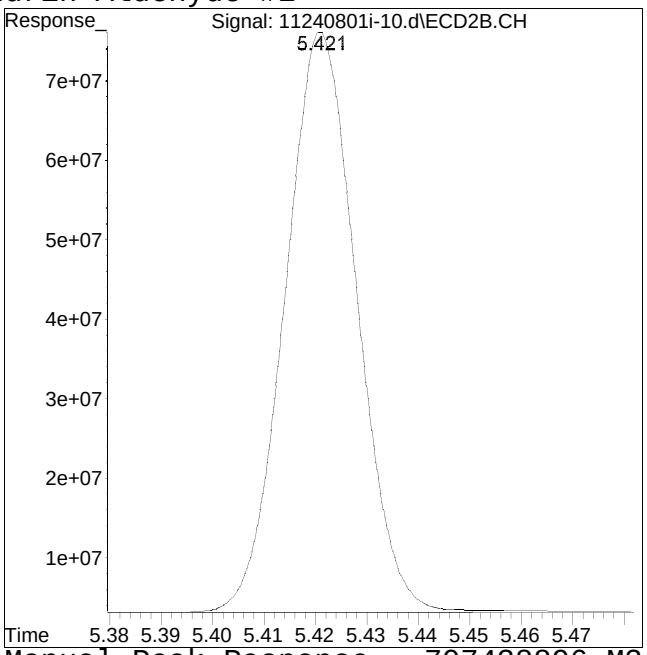
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #60: Endrin Aldehyde #2





Original Peak Response = 714156780 Manual Peak Response = 707438896 M3

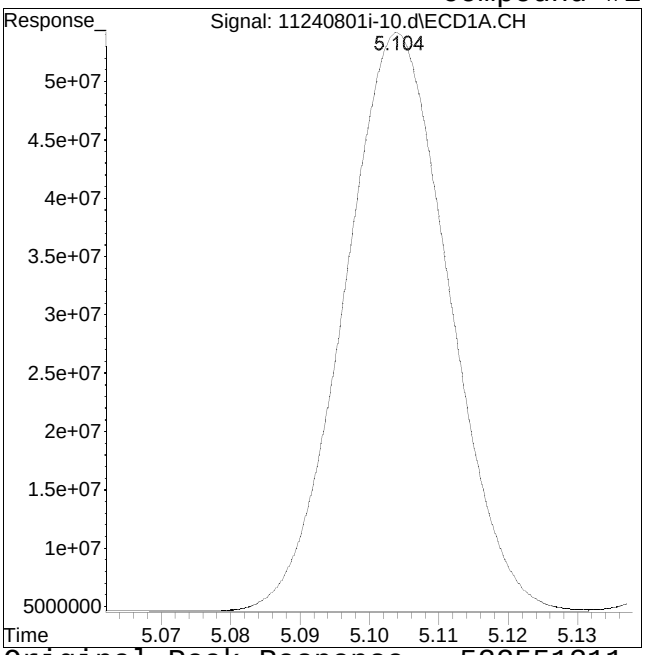
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

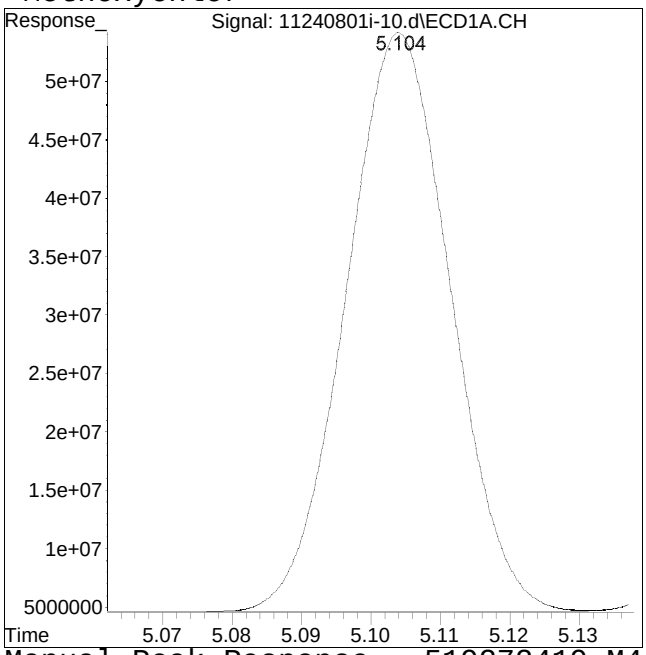
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #23: Methoxychlor



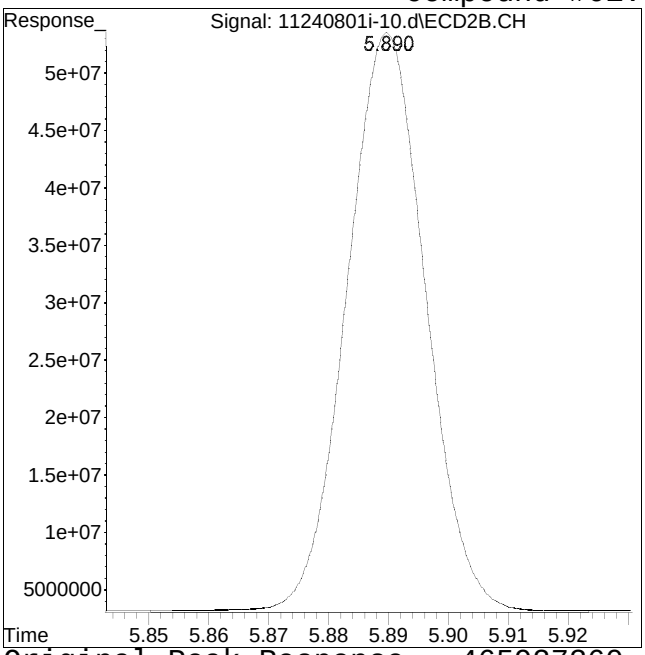


Original Peak Response = 522551311 Manual Peak Response = 519272419 M4
M4 = Poor automated baseline construction.

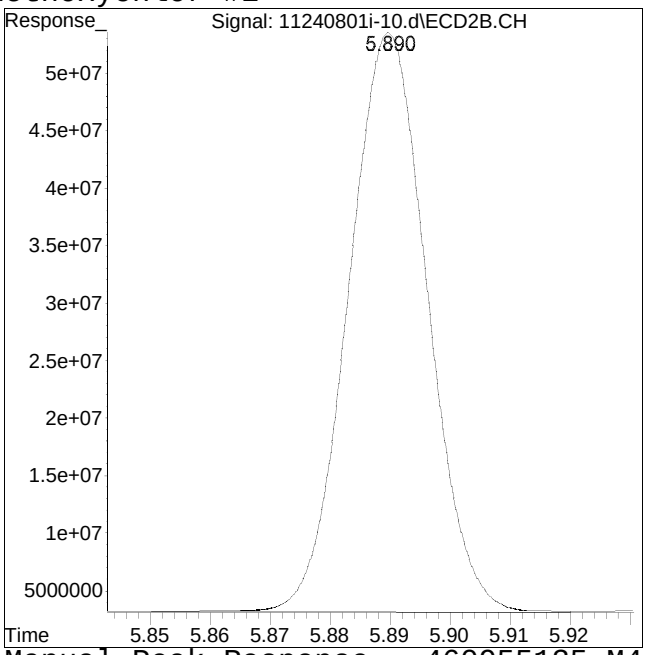
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #61: Methoxychlor #2



Original Peak Response = 465927360



Manual Peak Response = 460955135 M4

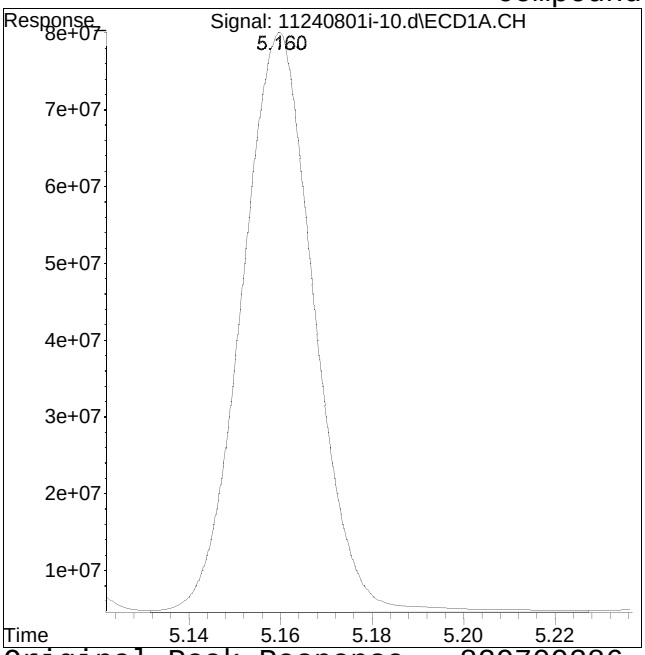
M4 = Poor automated baseline construction.

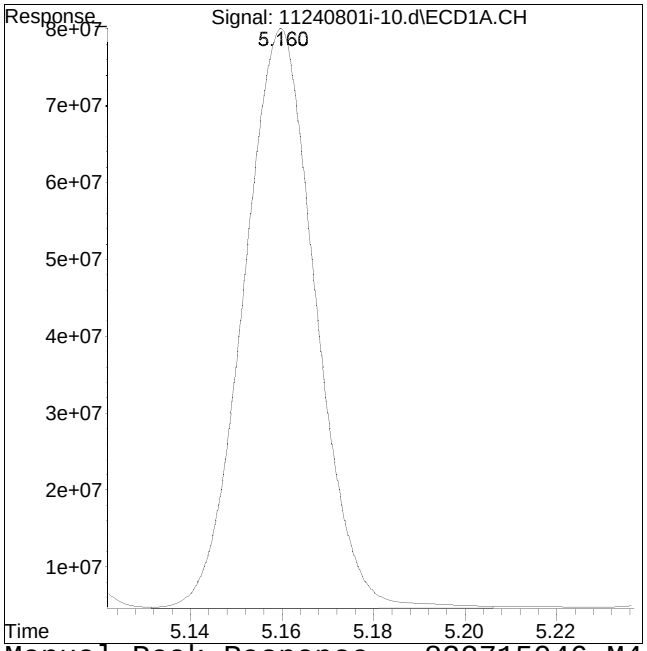
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #24: Mirex





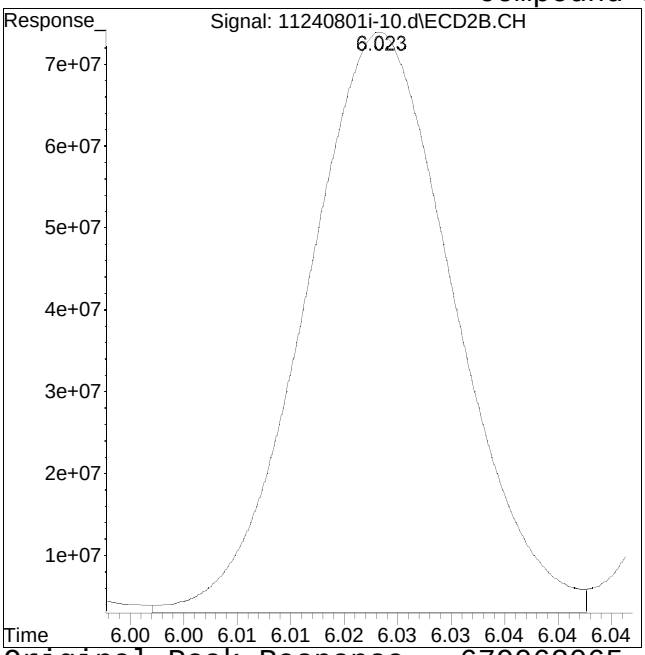
Original Peak Response = 829709386 Manual Peak Response = 822715046 M4
M4 = Poor automated baseline construction.

Manual Integration Report

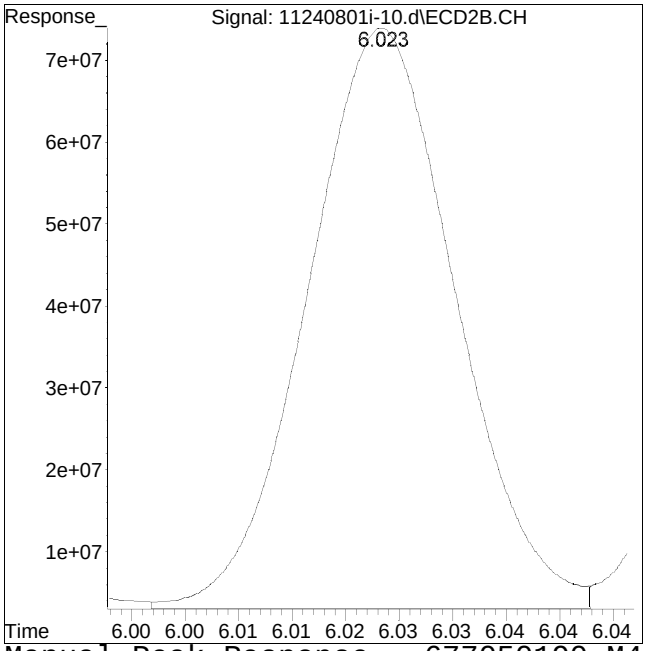
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #62: Mirex #2



Original Peak Response = 679062065



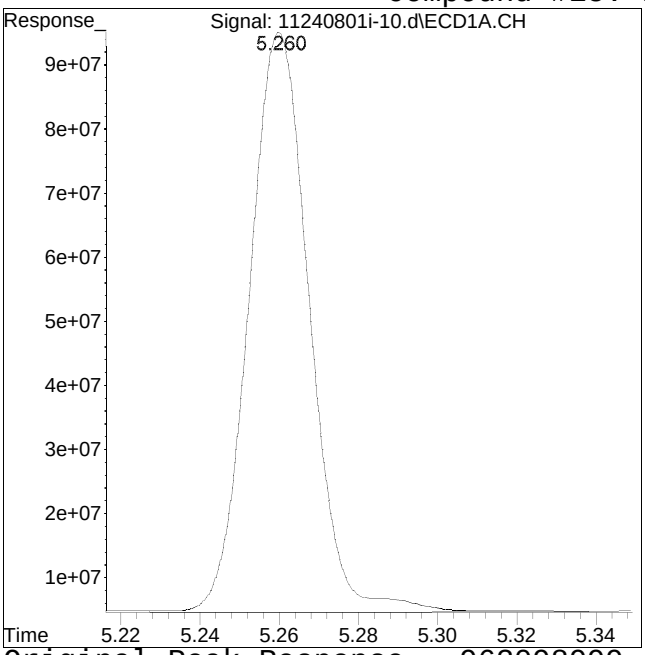
Manual Peak Response = 677050190 M4

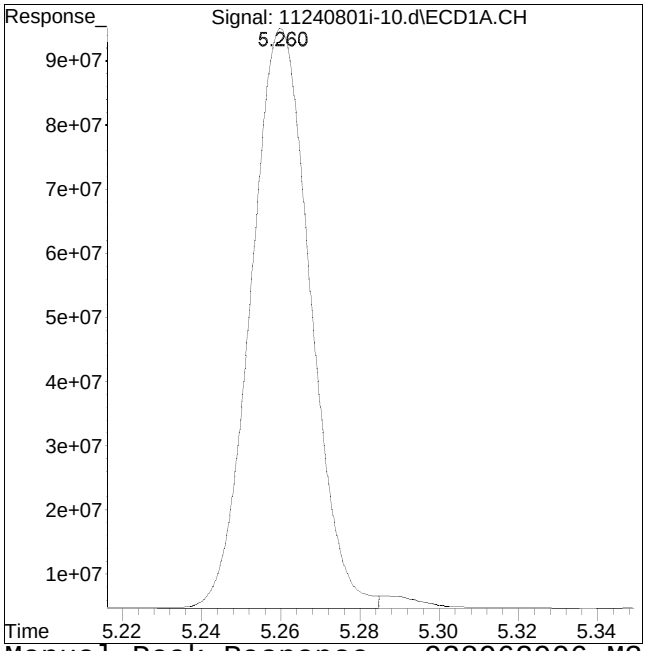
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #25: Endosulfan Sulfate





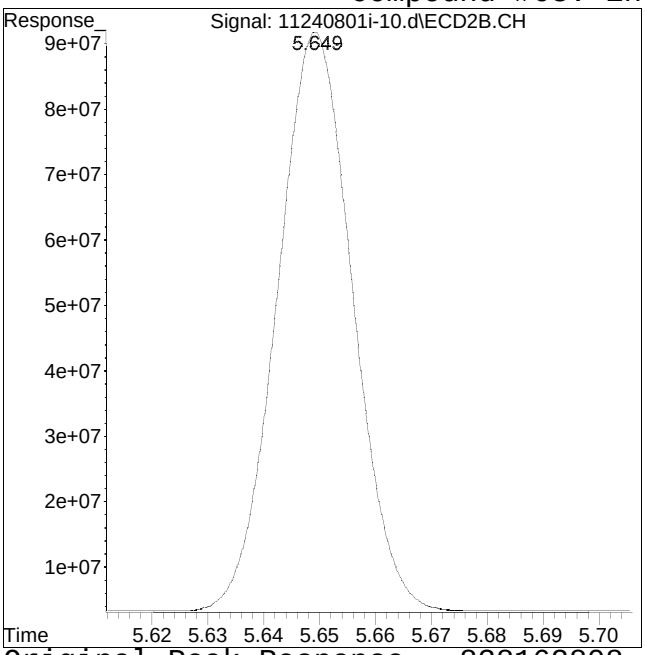
Original Peak Response = 963098999 Manual Peak Response = 938962906 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

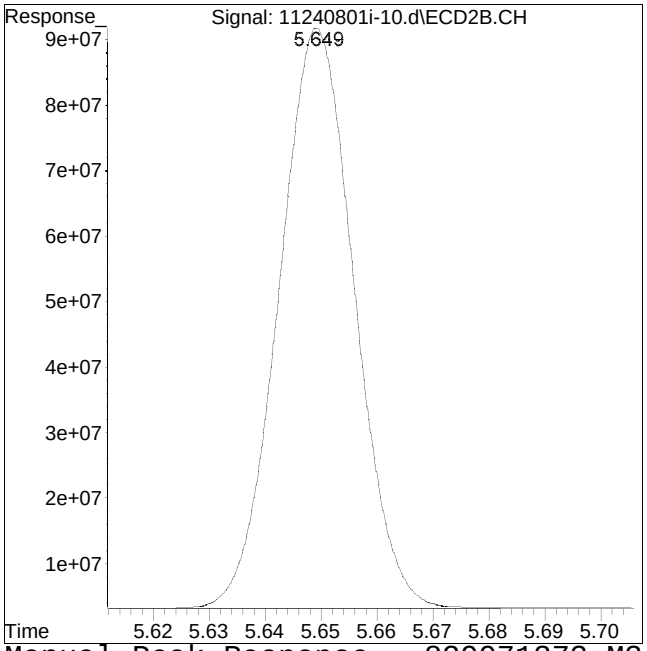
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #63: Endosulfan Sulfate #2





Original Peak Response = 838162808 Manual Peak Response = 829971373 M3

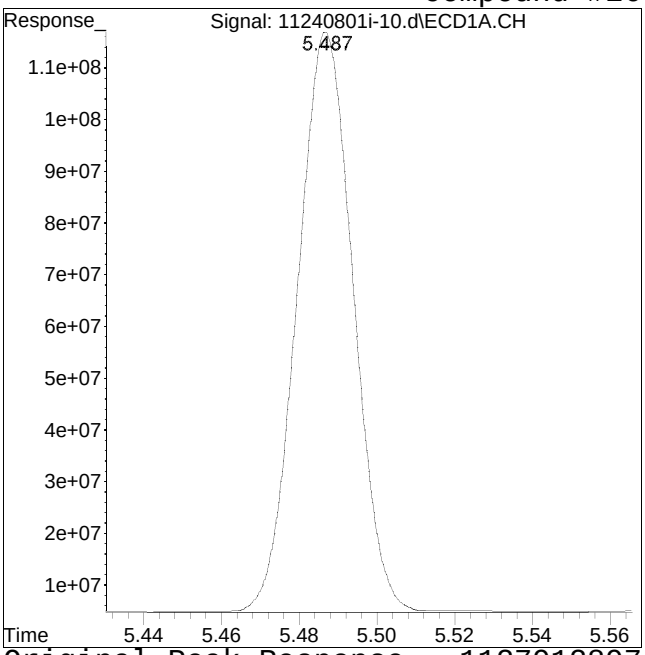
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

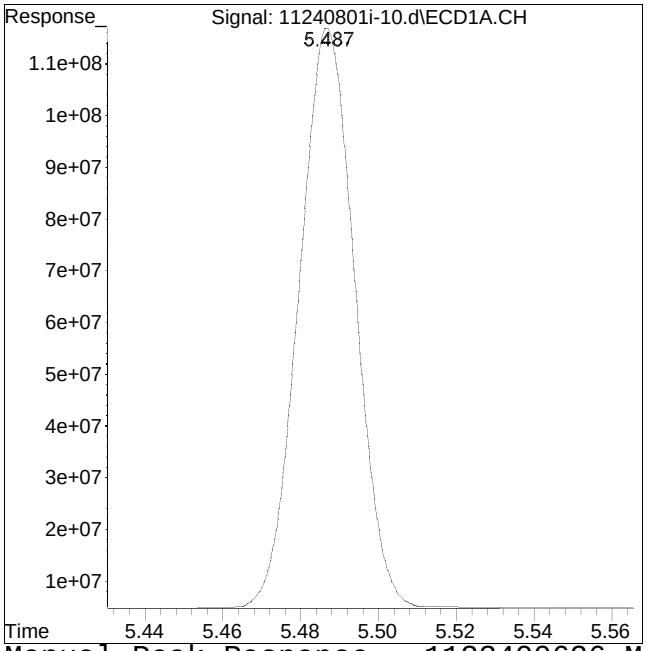
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #26: Endrin Ketone





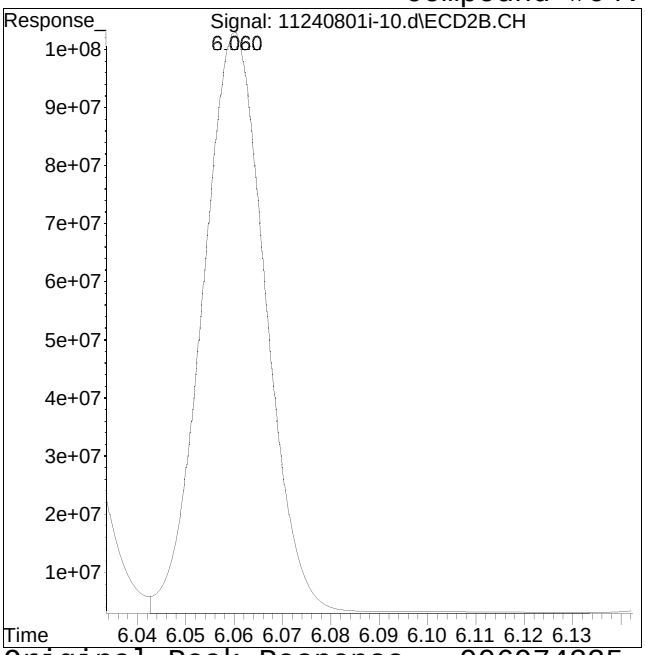
Original Peak Response = 1127912897 Manual Peak Response = 1123400626 M4
M4 = Poor automated baseline construction.

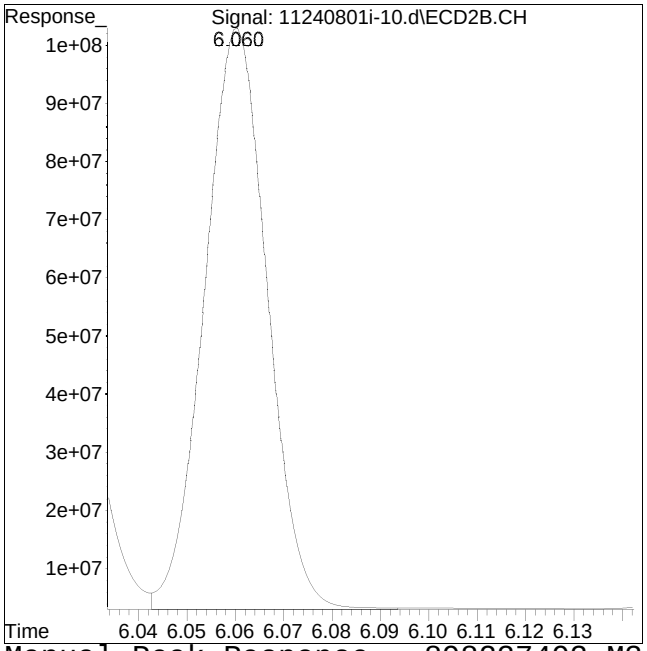
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #64: Endrin Ketone #2





Original Peak Response = 906974335 Manual Peak Response = 898237493 M3

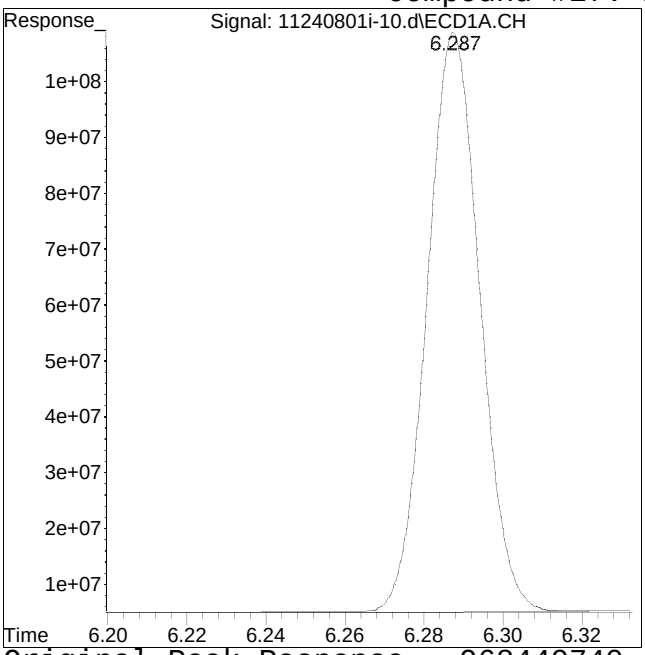
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

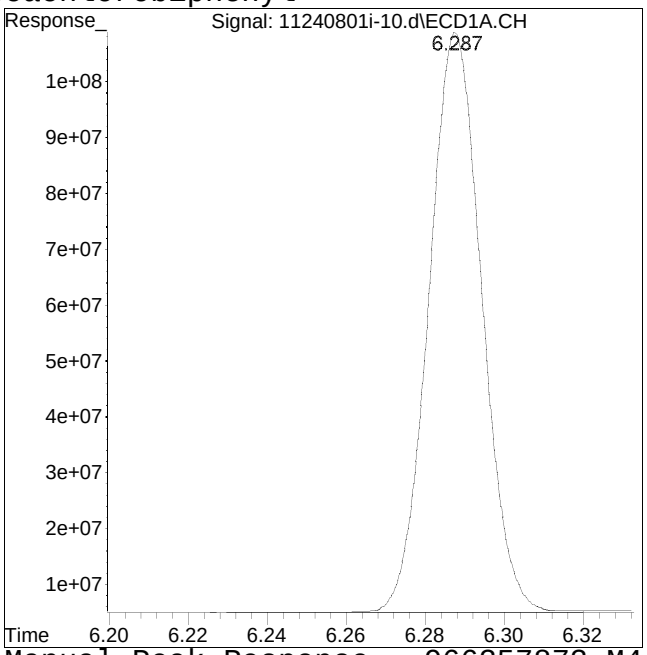
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 968440740



Manual Peak Response = 966357873 M4

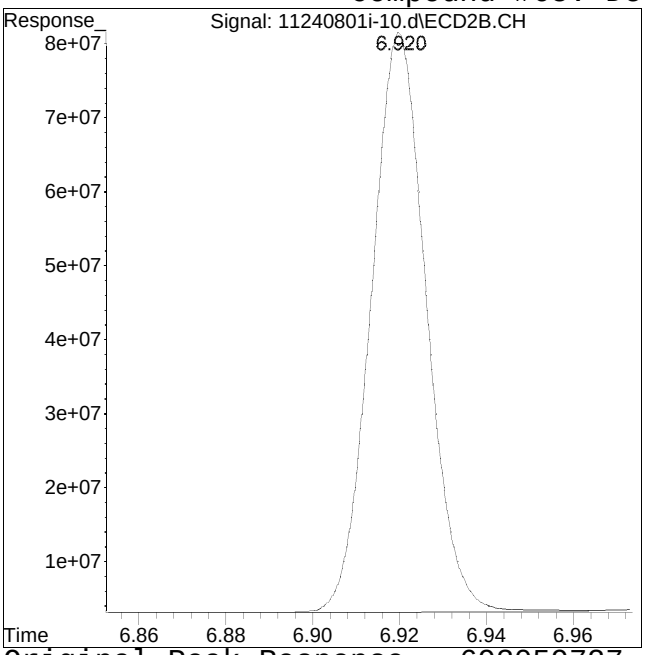
M4 = Poor automated baseline construction.

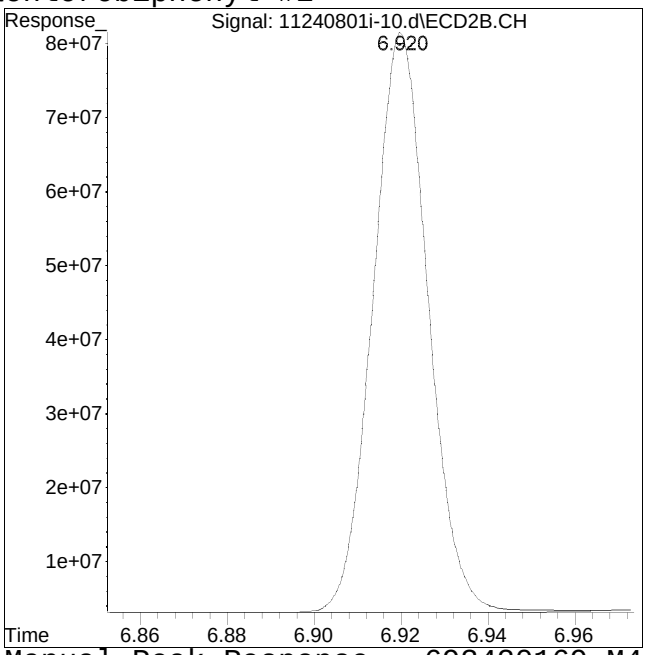
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 693059727 Manual Peak Response = 693420169 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:12
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:29:32 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	234.6E6	183.1E6	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	1913.3E6	1598.0E6	193.264M3	202.706M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		386.53%#	405.41%#
27) s	Decachlorobi	6.288	6.920	1913.5E6	1380.9E6	195.015M4	201.842M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		390.03%#	403.68%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.178	2442.7E6	1675.4E6	191.797M3	199.678
4) t	alpha-BHC	1.964	2.271	3010.2E6	2583.6E6	198.283M4	206.150M3
5) t	gamma-BHC (l	2.166	2.557	2765.0E6	2320.8E6	197.699M3	205.175M4
6) t	beta-BHC	2.221	2.622	1120.5E6	933.3E6	194.276M4	198.901M4
7) t	delta-BHC	2.350	2.889	2819.2E6	2384.1E6	199.250M4	206.915M4
8) t	Heptachlor	2.513	2.952	2482.5E6	2268.1E6	191.877M4	198.593M4
9) t	Aldrin	2.757	3.271	2440.7E6	2165.8E6	197.425M4	203.689
10) t	Alachlor	2.877	3.153	373.3E6	252.0E6	178.169M4	180.792M3
11) t	Chlorpyrifos	2.969	3.506	874.1E6	975.3E6	175.986M4	185.391M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:12
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:29:32 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.301	3.884	2205.7E6	1981.0E6	192.763M3	199.269M4
13)	t	gamma-Chlord	3.425	4.105	2083.4E6	1868.5E6	200.885M4	206.064M4
14)	t	alpha-Chlord	3.559	4.274	2331.6E6	2051.6E6	198.900M3	204.428M4
15)	t	4,4'-DDE	3.657	4.473	2393.8E6	2077.4E6	202.115M4	207.169M3
16)	t	Endosulfan I	3.696	4.336	2104.4E6	1850.2E6	194.817M4	199.685M4
17)	t	Dieldrin	3.955	4.628	2245.1E6	1969.5E6	198.785M4	203.766M4
18)	t	Endrin	4.210	4.926	2229.3E6	1985.9E6	195.383M3	202.639M4
19)	t	4,4'-DDD	4.322	5.050	1880.5E6	1661.0E6	203.384M4	208.277M4
20)	t	Endosulfan I	4.452	5.126	1974.6E6	1684.2E6	192.875M4	198.396M4
21)	t	4,4'-DDT	4.616	5.326	2109.7E6	1890.1E6	202.314M4	207.312M3
22)	t	Endrin Aldeh	4.869	5.421	1666.3E6	1402.7E6	198.364M4	202.391M3
23)	t	Methoxychlor	5.104	5.890	988.3E6	899.3E6	185.976M4	196.434M3
24)	t	Mirex	5.160	6.023	1621.2E6	1338.7E6	194.224M4	199.638M4
25)	t	Endosulfan S	5.260	5.649	1840.3E6	1637.4E6	194.770M3	201.144M4
26)	t	Endrin Keton	5.487	6.060	2176.6E6	1757.5E6	191.458M4	198.938M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:12
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:29:32 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

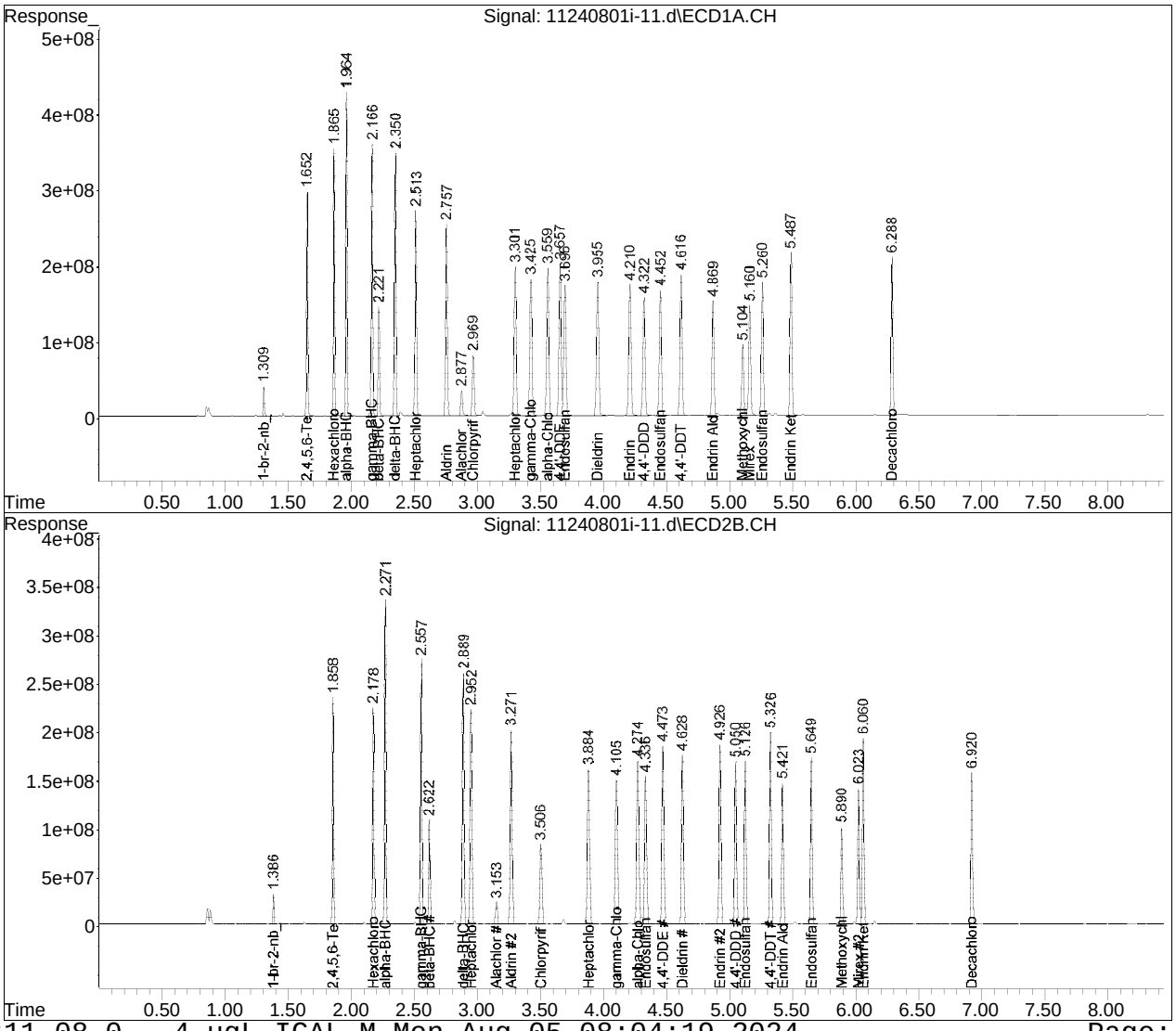
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:12
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:29:32 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

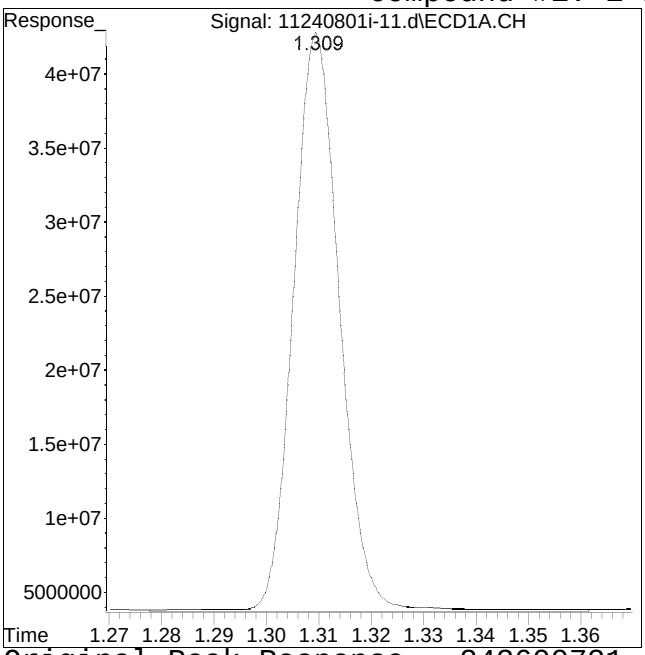
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

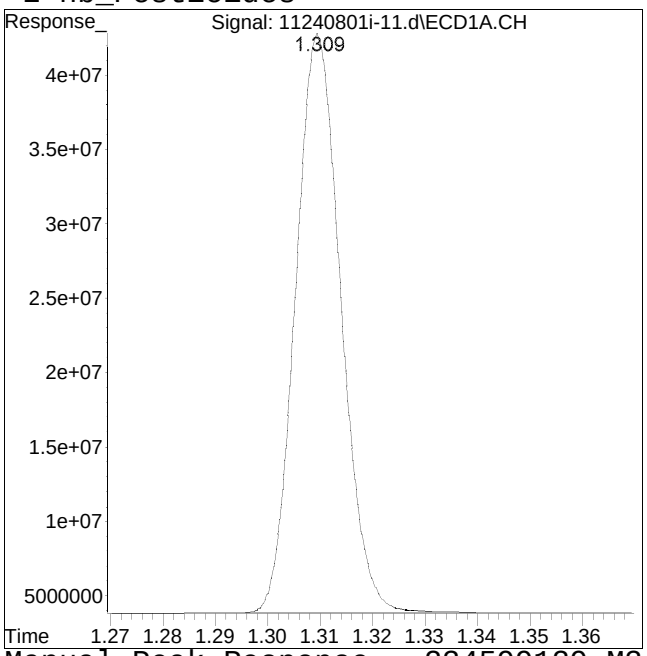


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-11.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:12 Instrument : Pest 11
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/2/2024 9:29 am

Compound #1: 1-br-2-nb_Pesticides





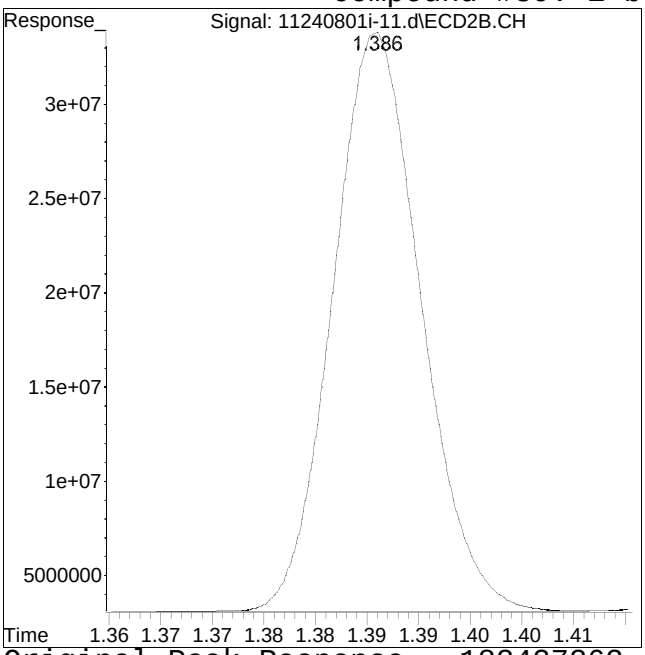
Original Peak Response = 243600721 Manual Peak Response = 234599129 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

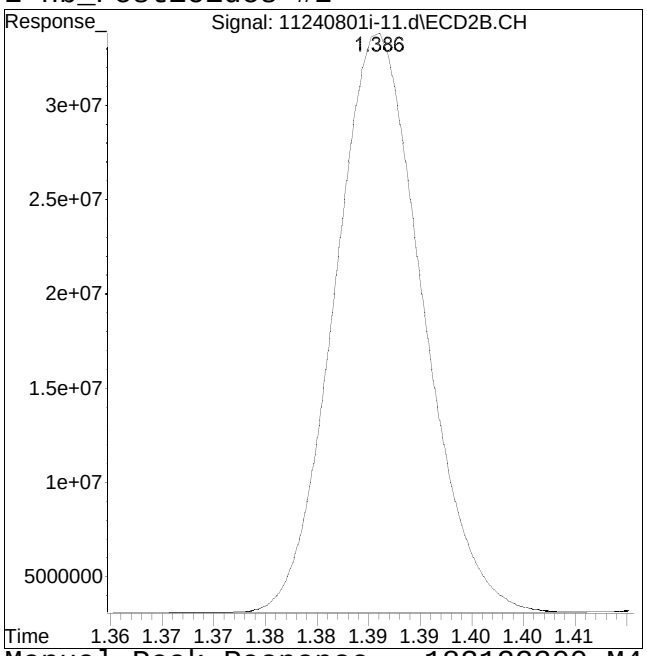
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #39: 1-br-2-nb_Pesticides #2





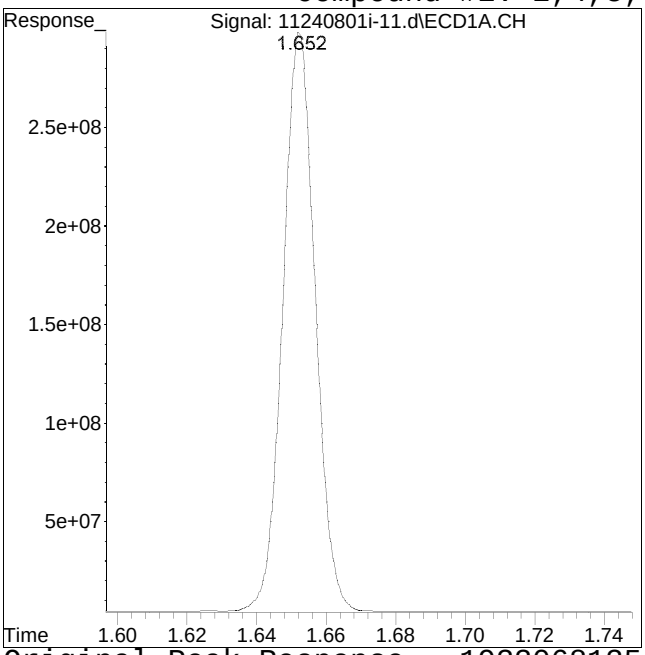
Original Peak Response = 183427262 Manual Peak Response = 183123300 M4

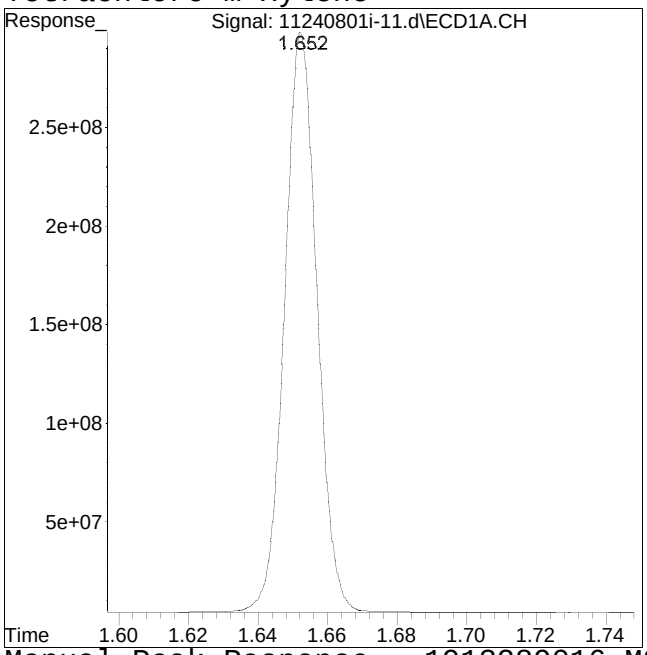
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-11.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:12 Instrument : Pest 11
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/2/2024 9:29 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





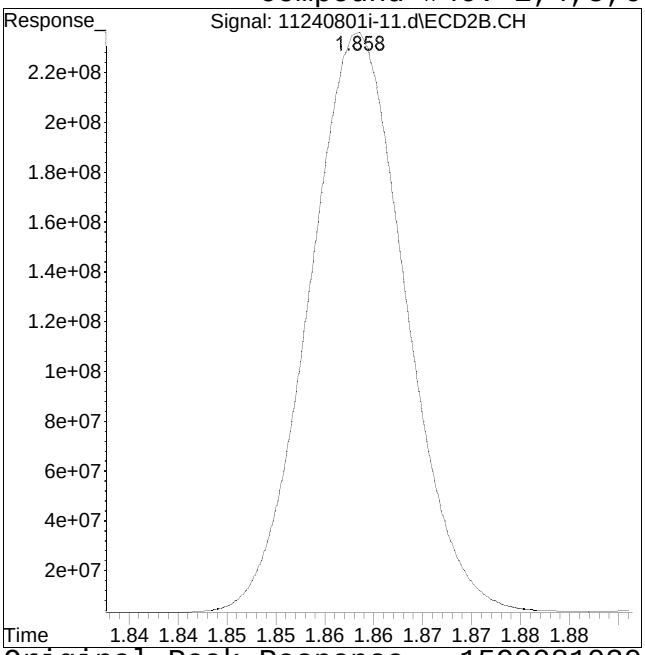
Original Peak Response = 1933068135 Manual Peak Response = 1913289016 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

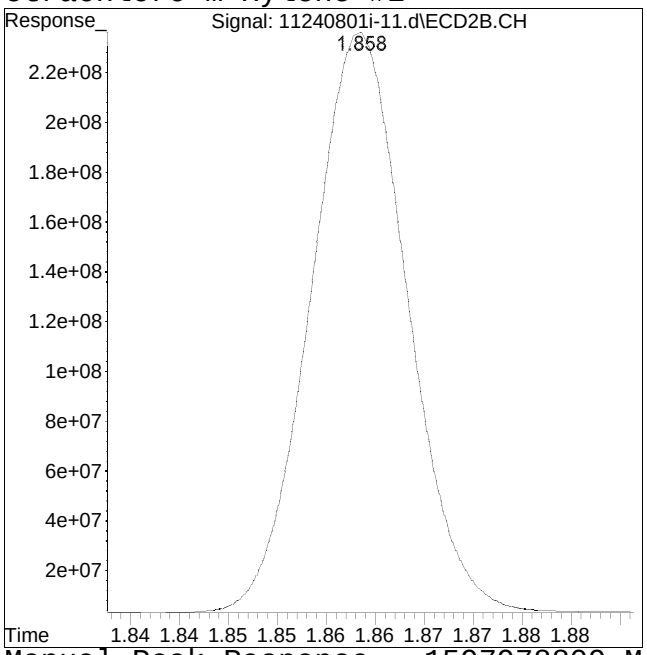
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2





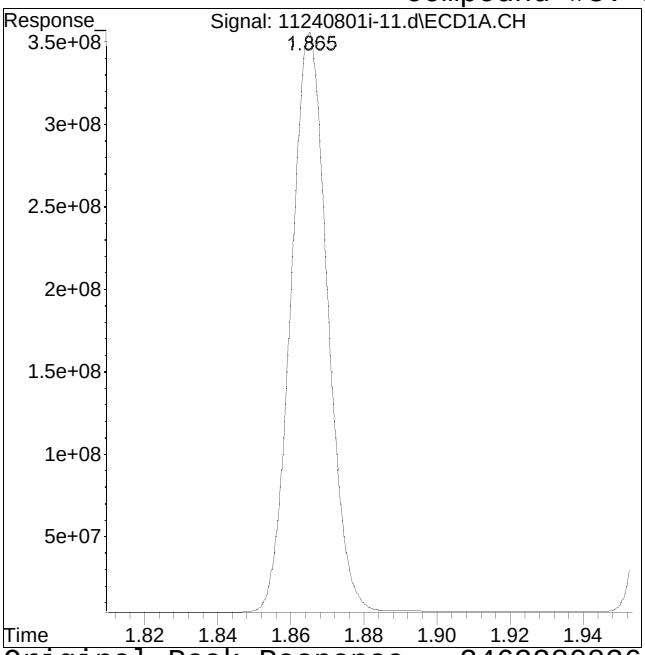
Original Peak Response = 1599081030 Manual Peak Response = 1597978809 M4
M4 = Poor automated baseline construction.

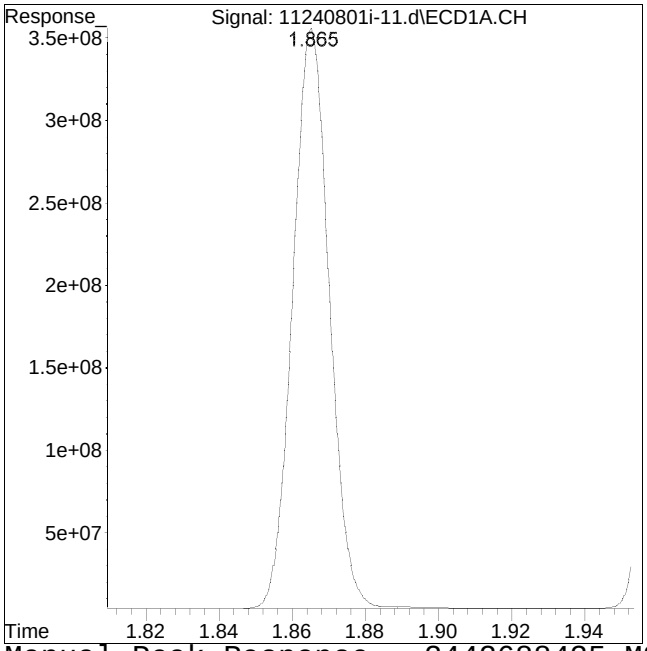
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #3: Hexachlorobenzene





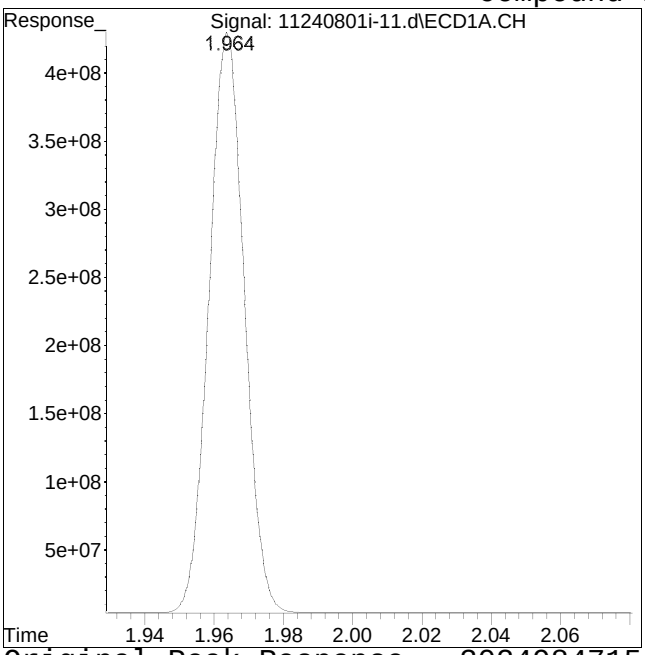
Original Peak Response = 2463280836 Manual Peak Response = 2442688435 M3

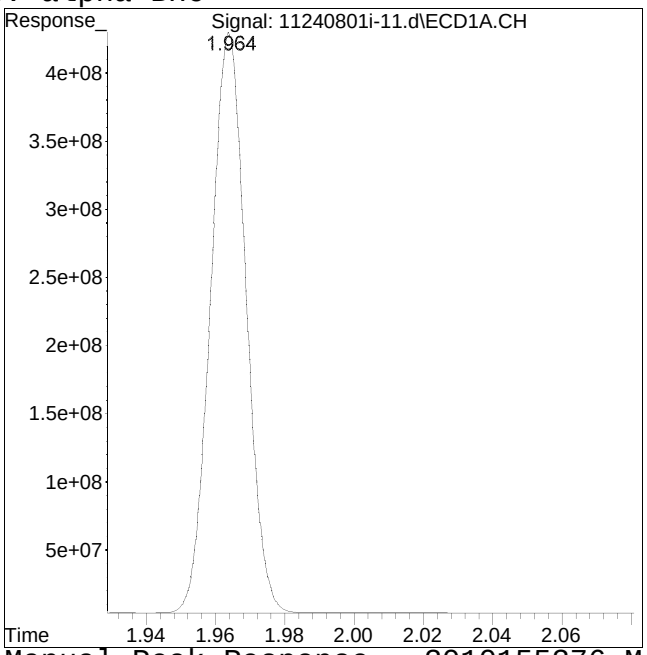
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-11.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:12 Instrument : Pest 11
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/2/2024 9:29 am

Compound #4: alpha-BHC



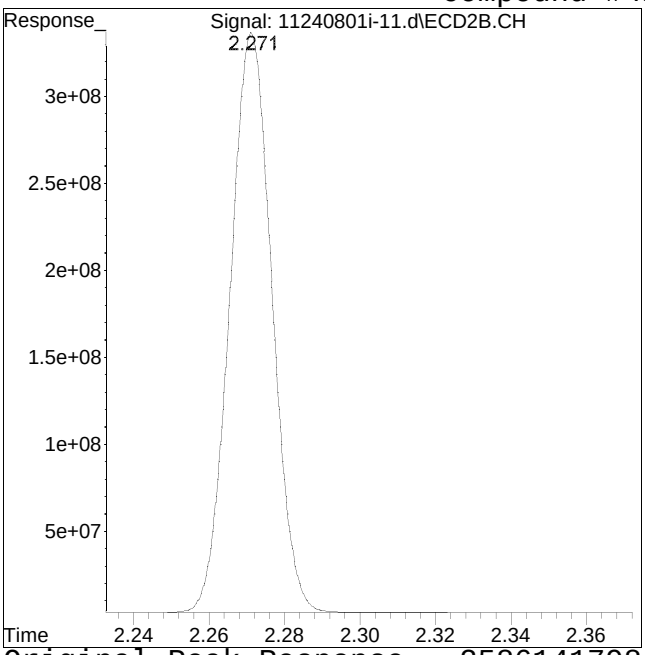


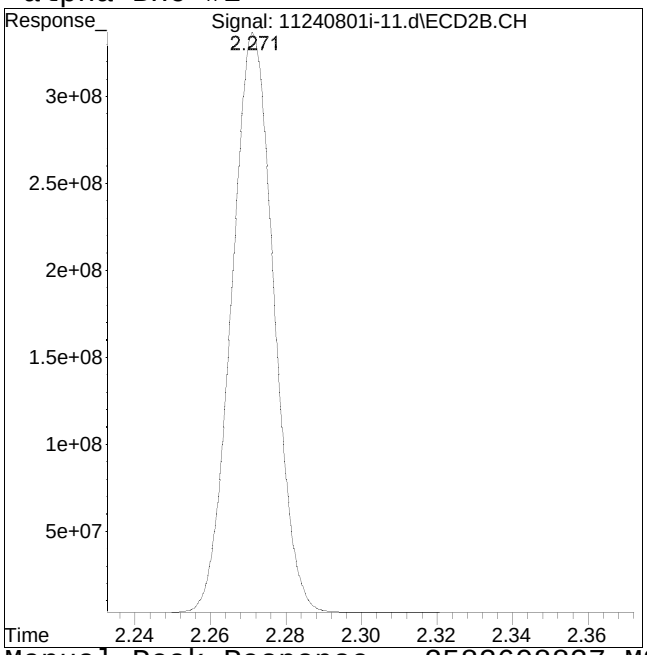
Original Peak Response = 3024984715 Manual Peak Response = 3010155376 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #42: alpha-BHC #2





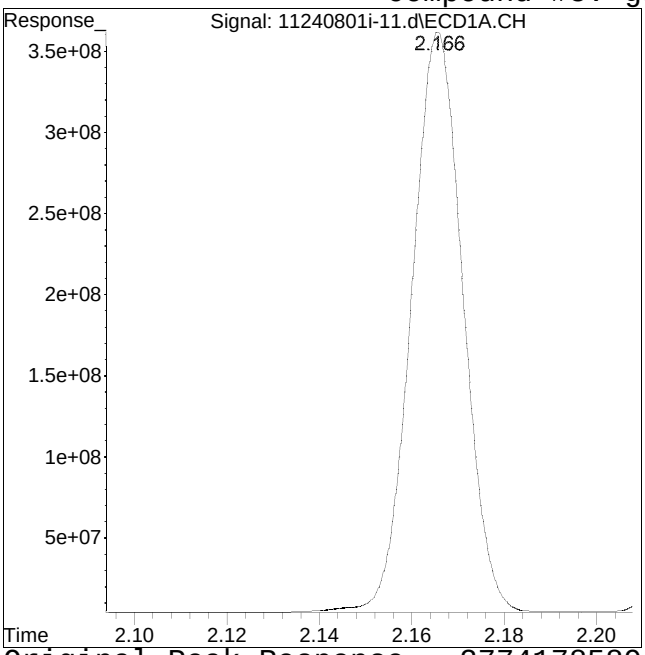
Original Peak Response = 2586141798 Manual Peak Response = 2583608837 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

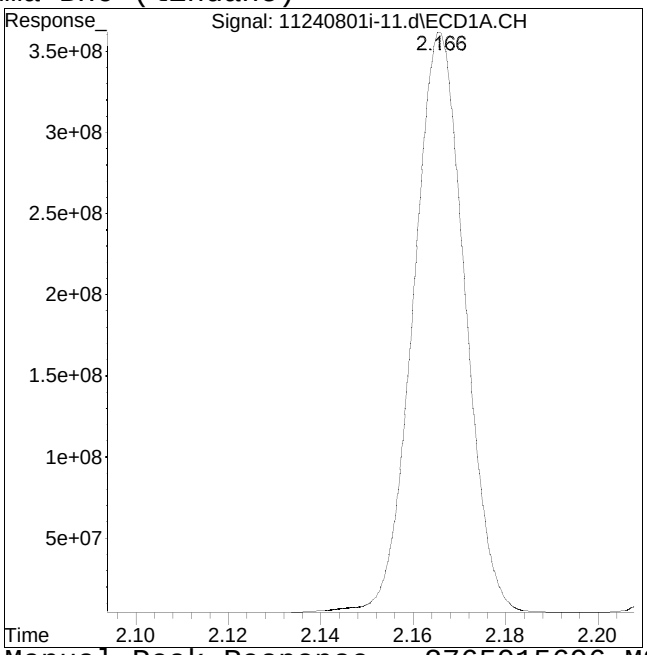
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #5: gamma-BHC (lindane)



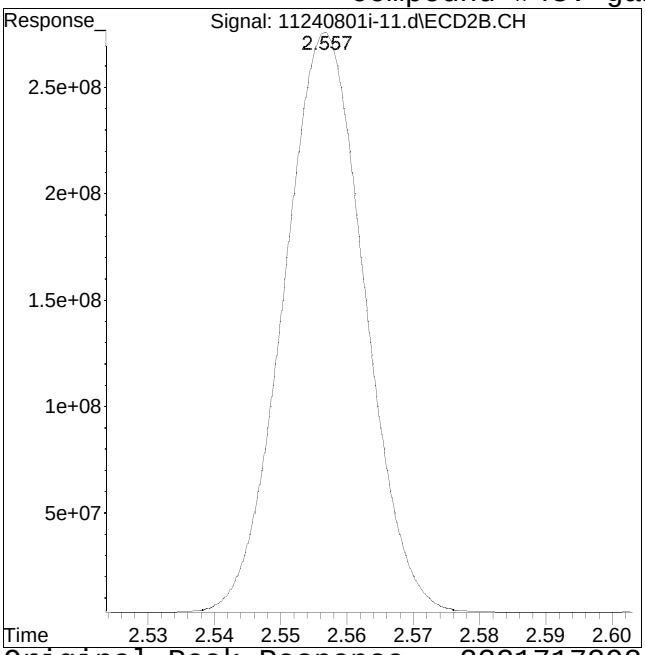


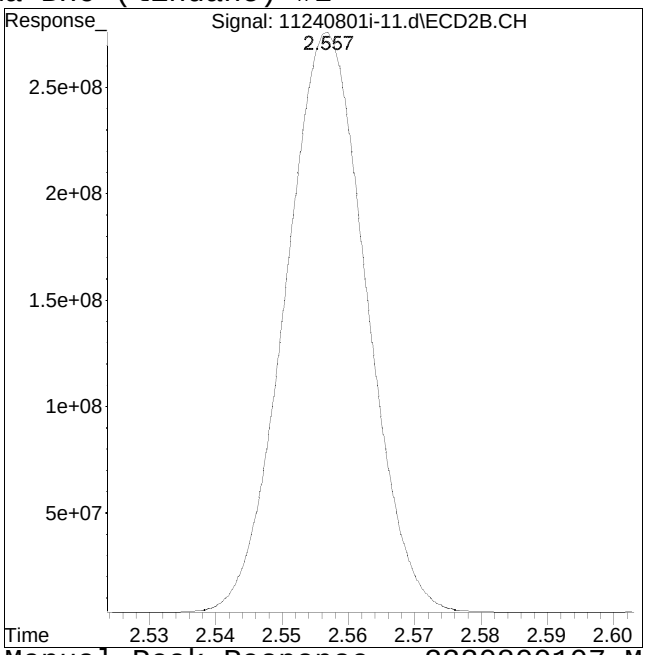
Original Peak Response = 2774178589 Manual Peak Response = 2765015696 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #43: gamma-BHC (lindane) #2



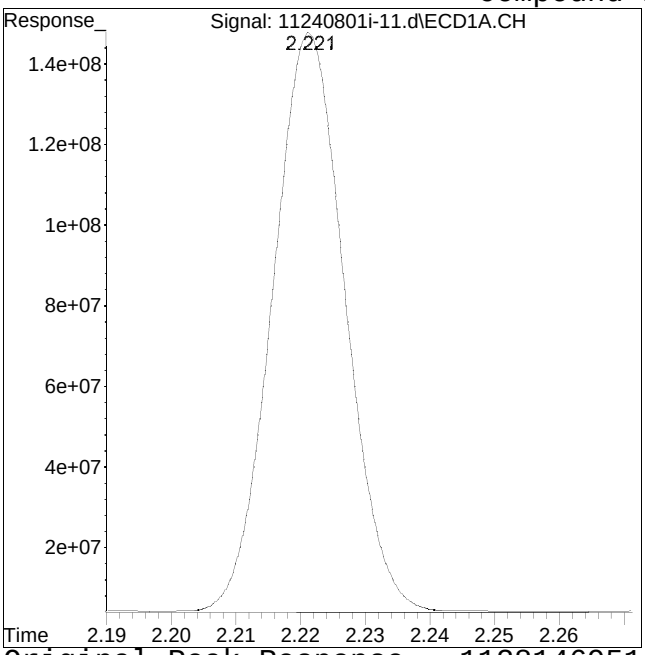


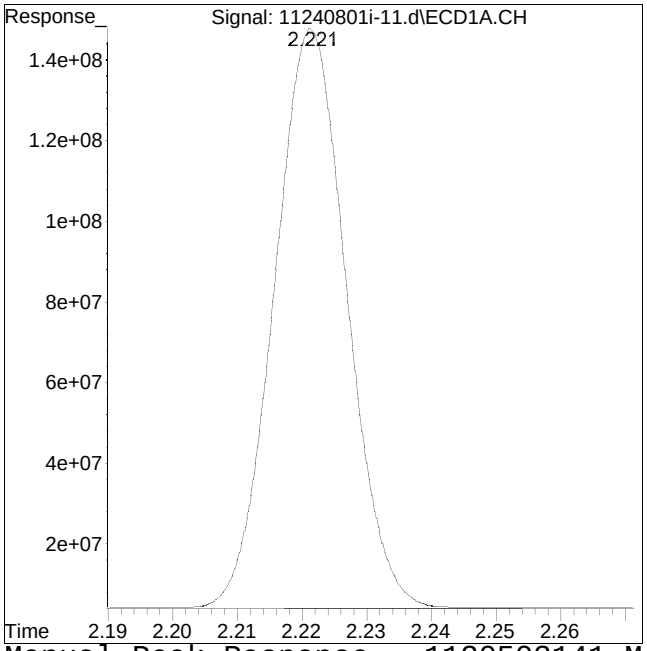
Original Peak Response = 2321717392 Manual Peak Response = 2320800107 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #6: beta-BHC





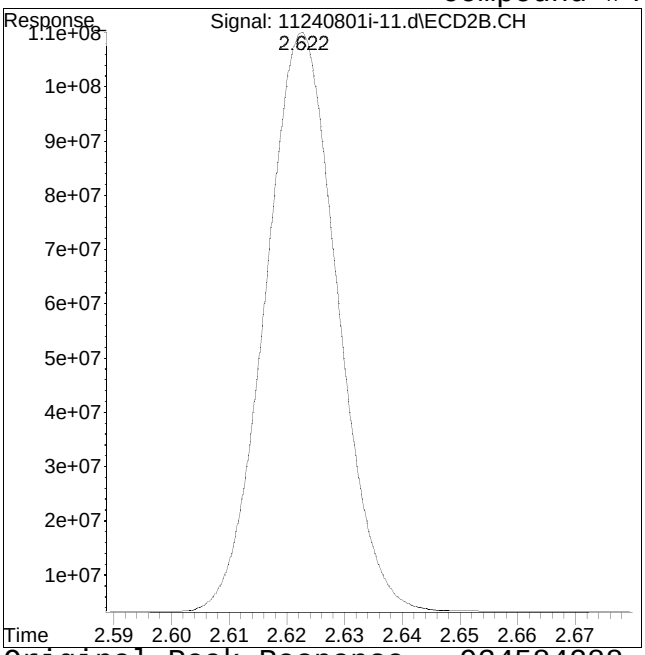
Original Peak Response = 1128146951 Manual Peak Response = 1120503141 M4
M4 = Poor automated baseline construction.

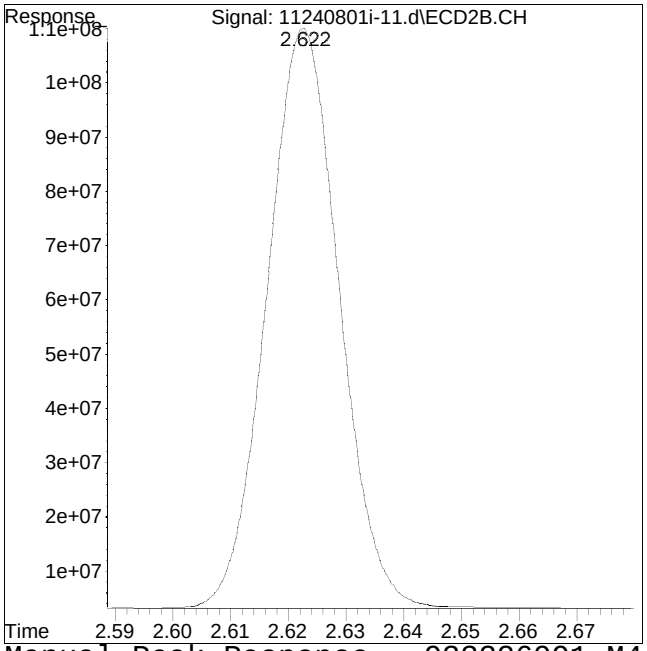
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #44: beta-BHC #2





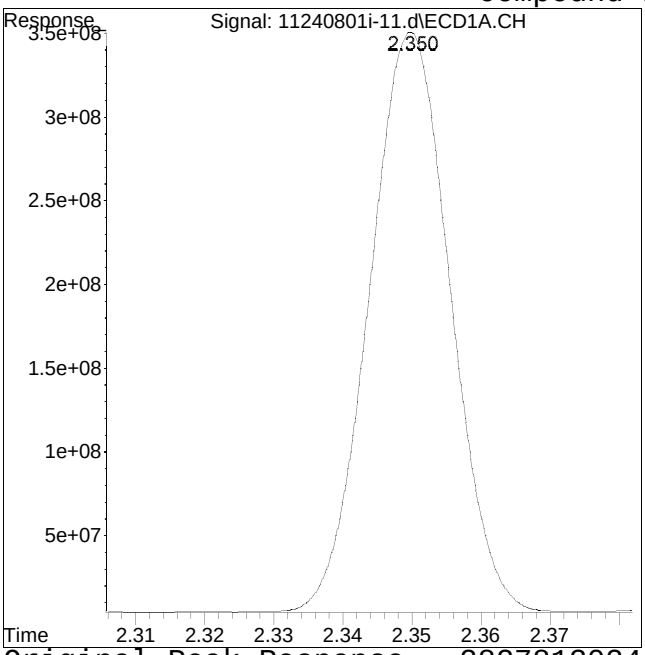
Original Peak Response = 934584288 Manual Peak Response = 933326991 M4
M4 = Poor automated baseline construction.

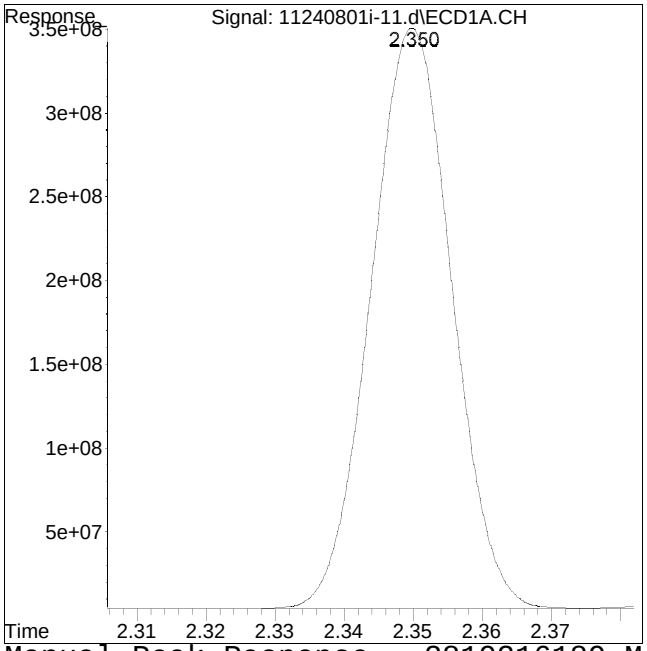
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #7: delta-BHC





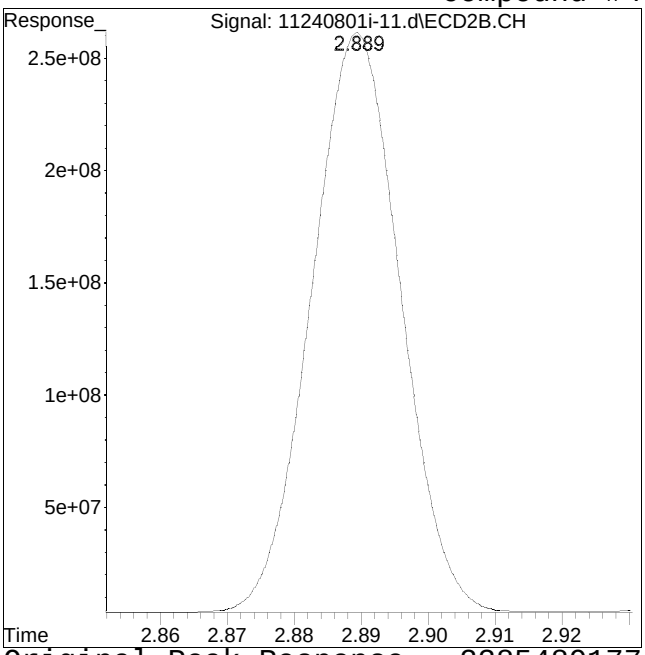
Original Peak Response = 2827813024 Manual Peak Response = 2819216189 M4
M4 = Poor automated baseline construction.

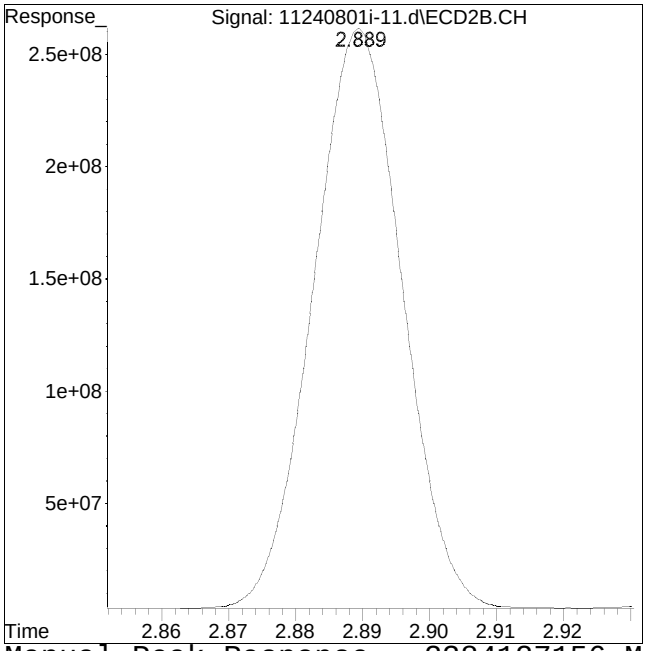
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #45: delta-BHC #2





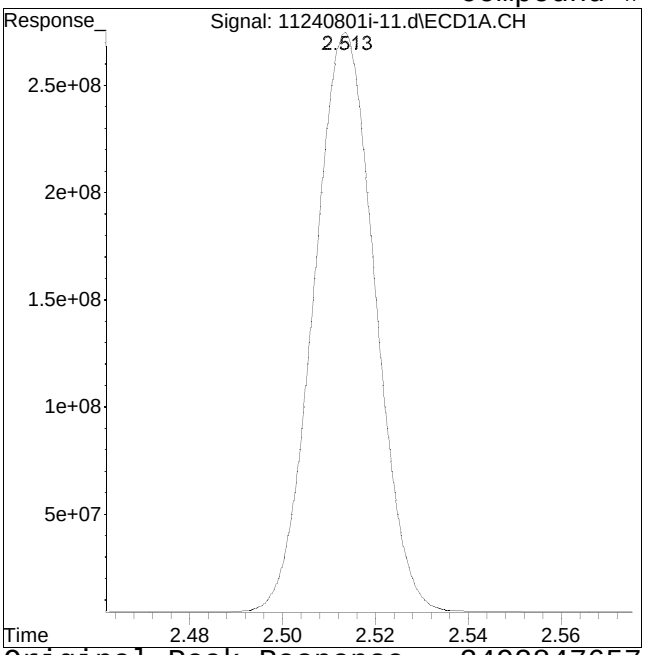
Original Peak Response = 2385489177 Manual Peak Response = 2384127156 M4
M4 = Poor automated baseline construction.

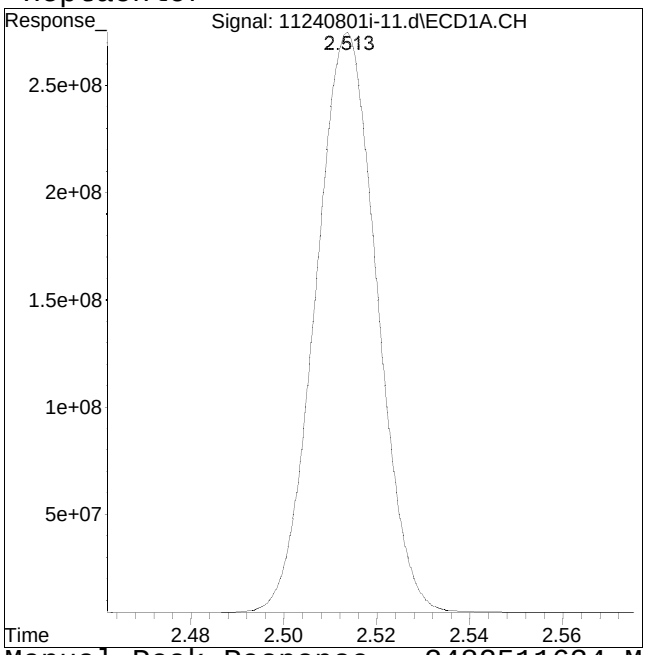
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #8: Heptachlor



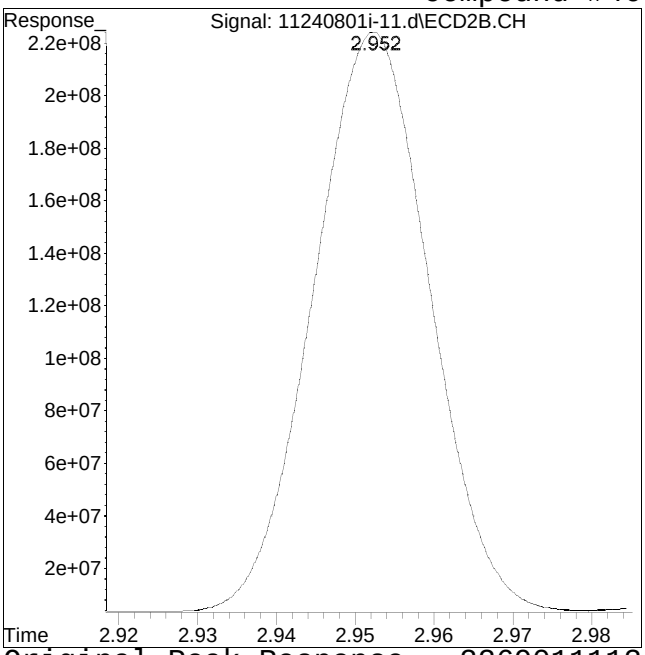


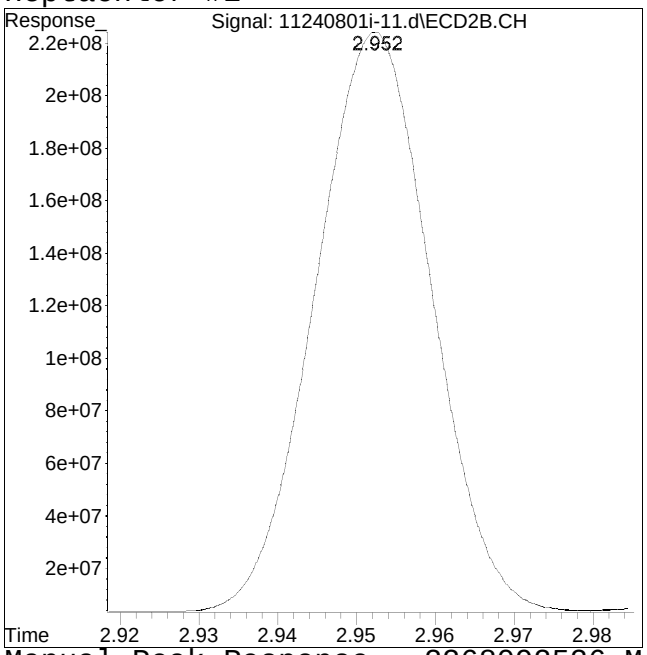
Original Peak Response = 2492847657 Manual Peak Response = 2482511634 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #46: Heptachlor #2





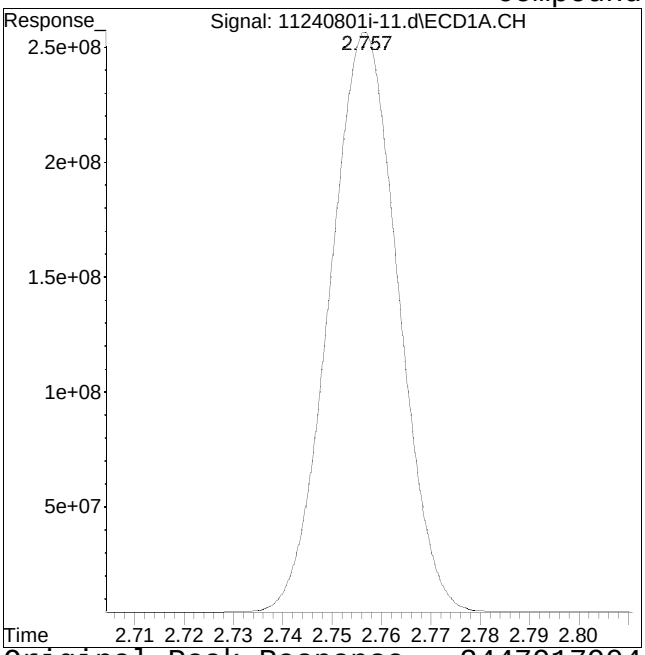
Original Peak Response = 2269011113 Manual Peak Response = 2268092526 M4
M4 = Poor automated baseline construction.

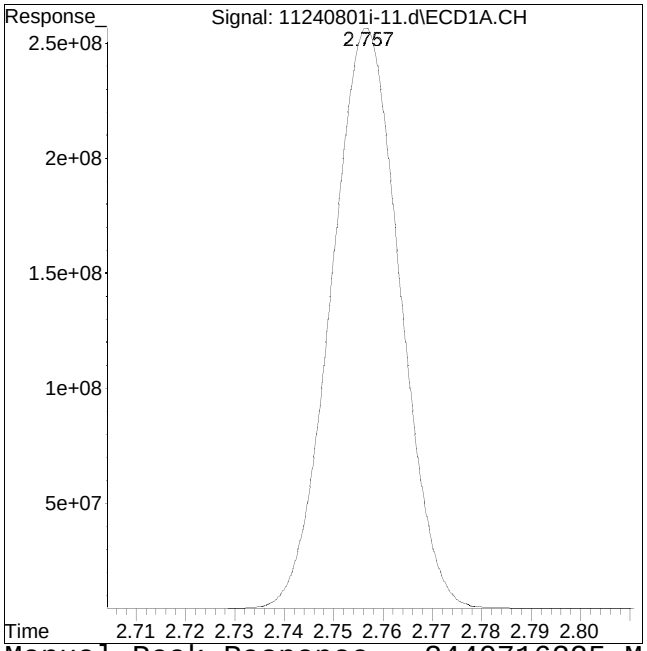
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #9: Aldrin





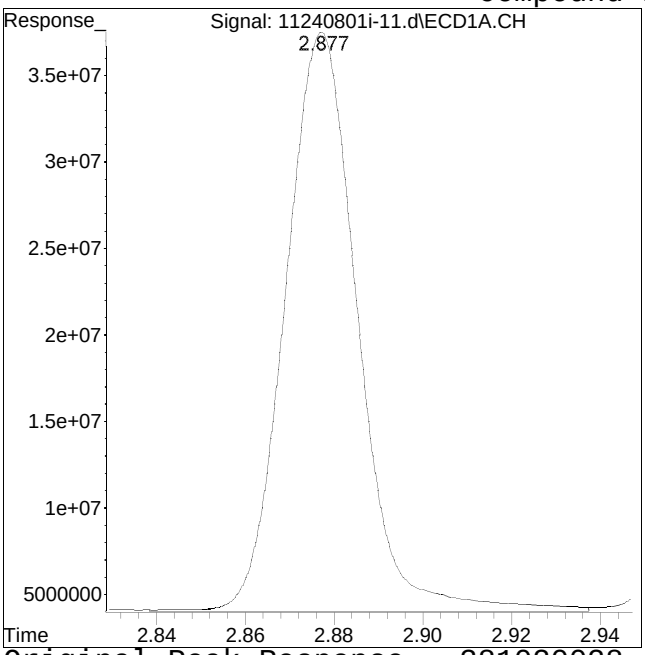
Original Peak Response = 2447917904 Manual Peak Response = 2440716225 M4
M4 = Poor automated baseline construction.

Manual Integration Report

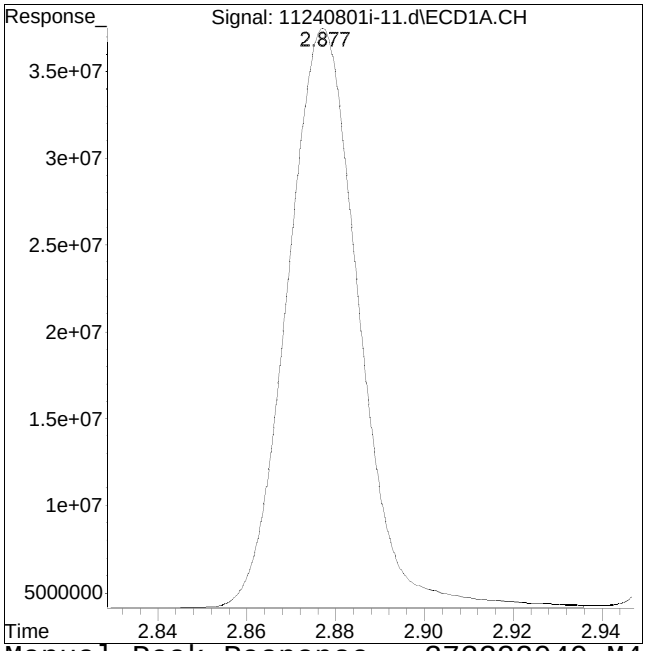
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #10: Alachlor



Original Peak Response = 381020028



Manual Peak Response = 373332040 M4

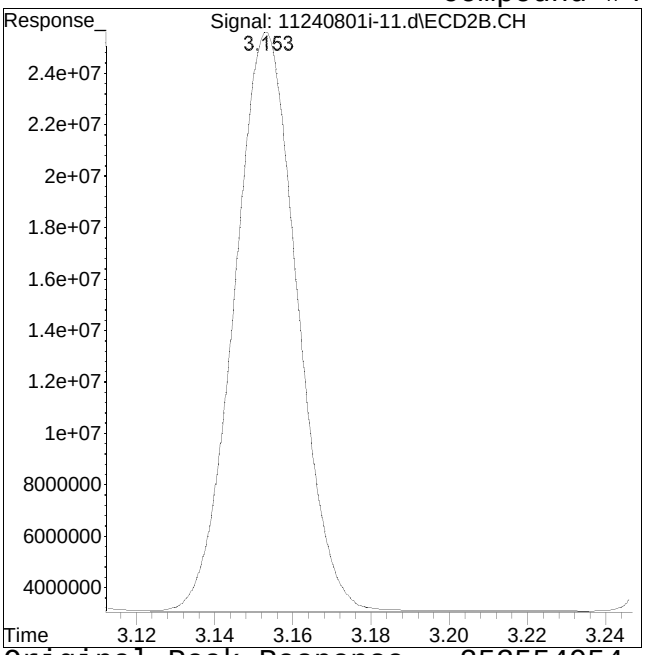
M4 = Poor automated baseline construction.

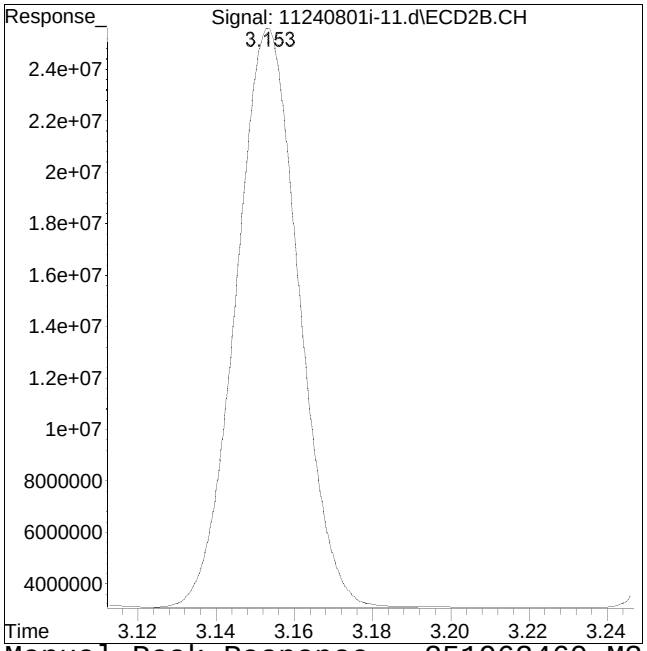
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #48: Alachlor #2





Original Peak Response = 253554954 Manual Peak Response = 251963460 M3

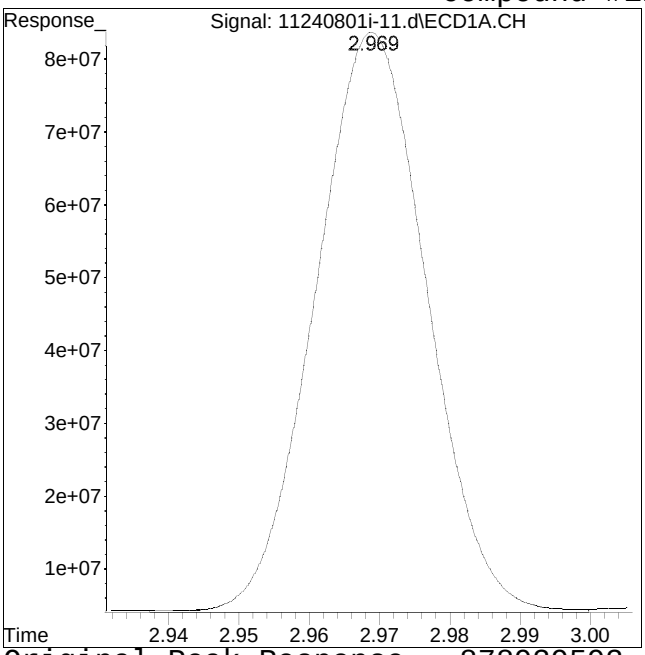
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

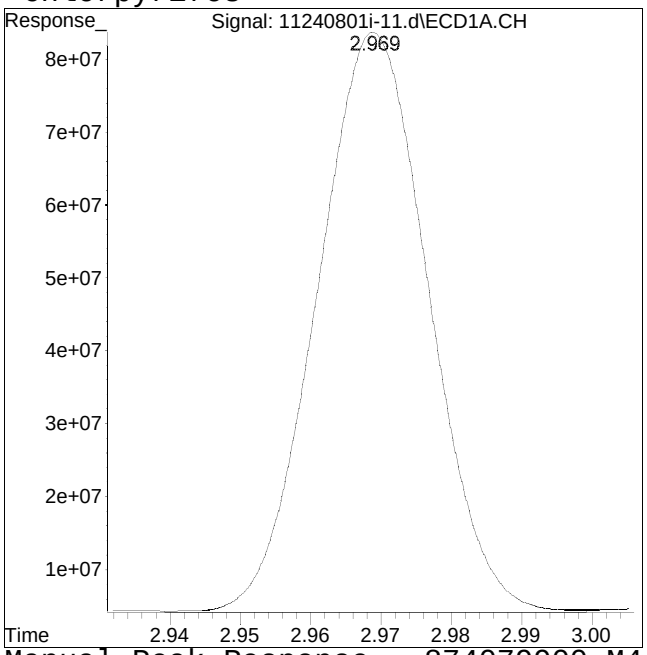
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #11: Chlorpyrifos



Original Peak Response = 878939593



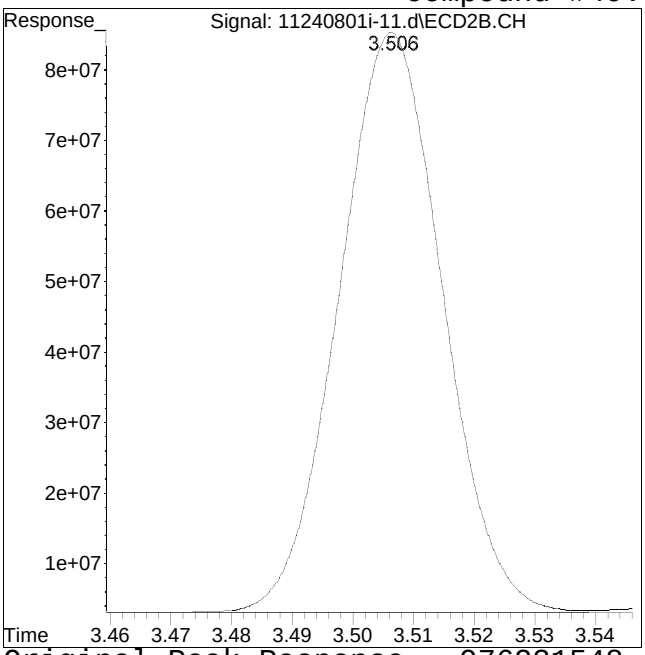
Manual Peak Response = 874079900 M4

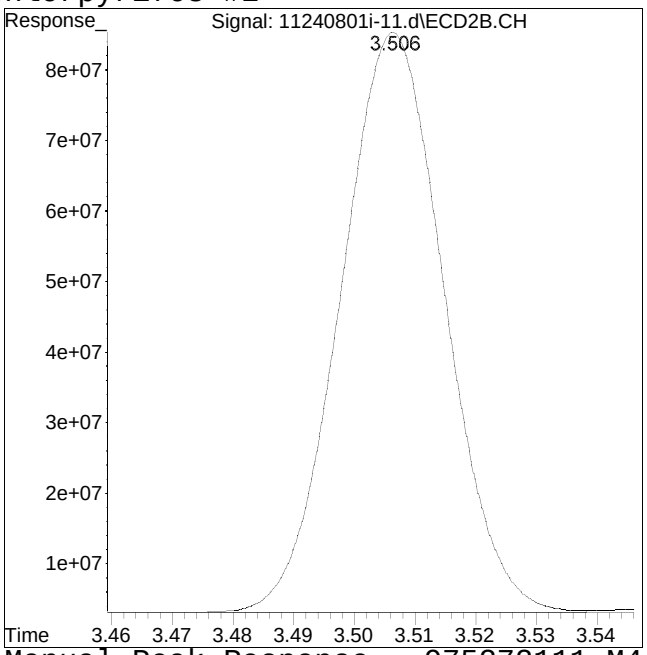
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-11.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:12 Instrument : Pest 11
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/2/2024 9:29 am

Compound #49: Chlorpyrifos #2





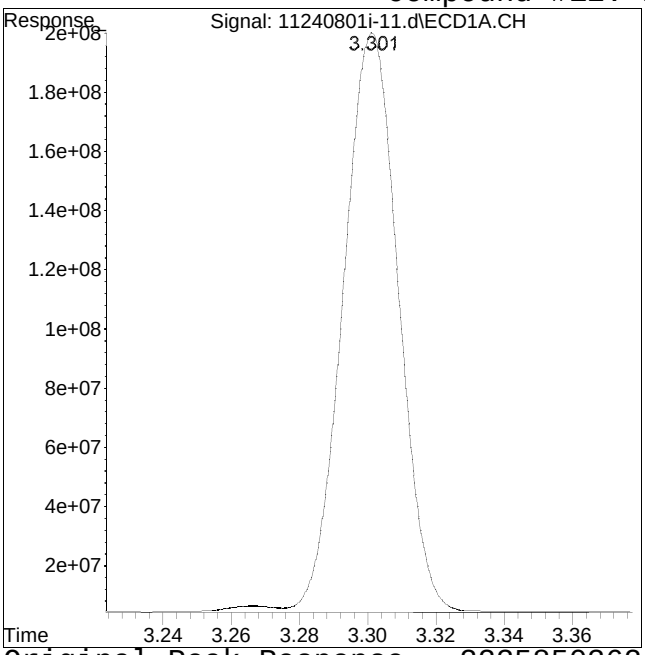
Original Peak Response = 976231548 Manual Peak Response = 975272111 M4
M4 = Poor automated baseline construction.

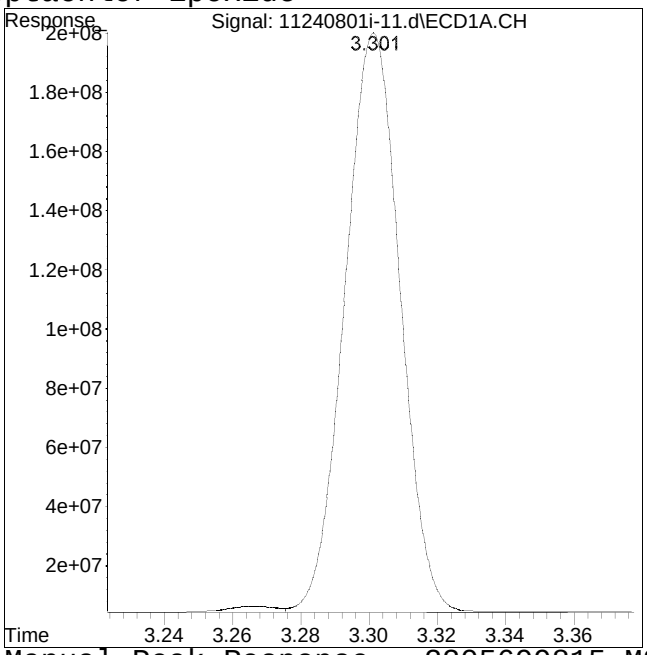
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #12: Heptachlor Epoxide





Original Peak Response = 2235850362 Manual Peak Response = 2205699815 M3

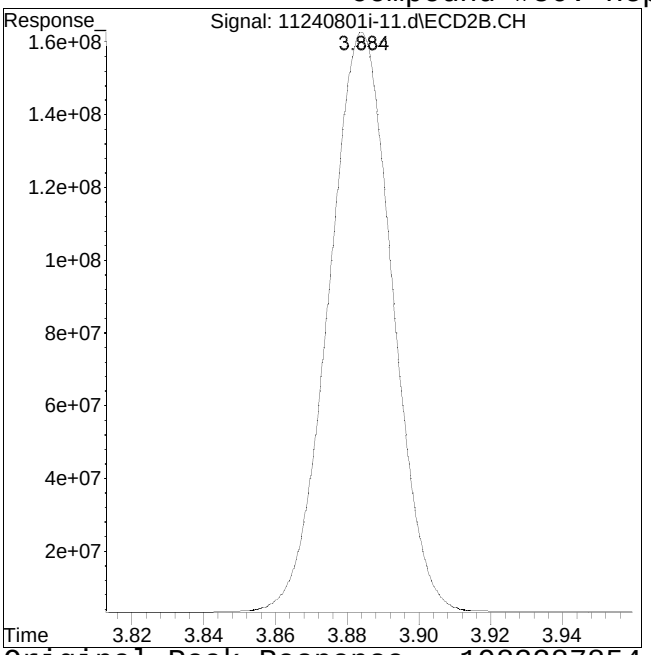
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

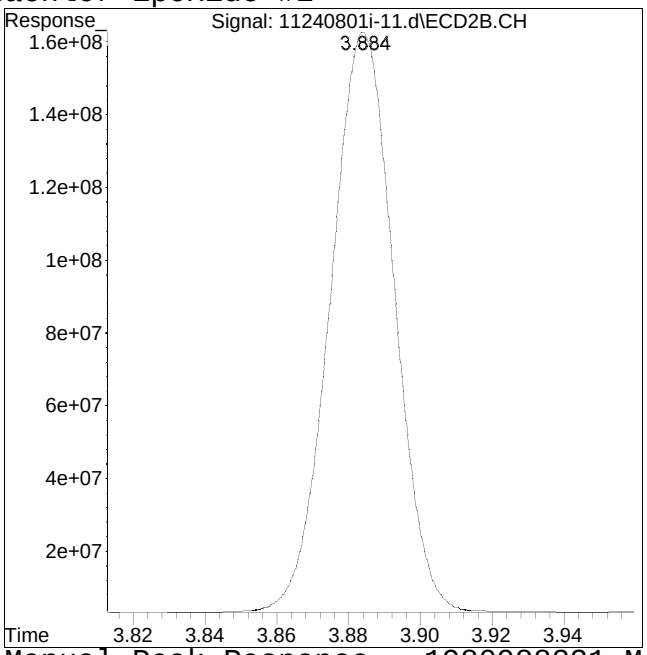
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #50: Heptachlor Epoxide #2





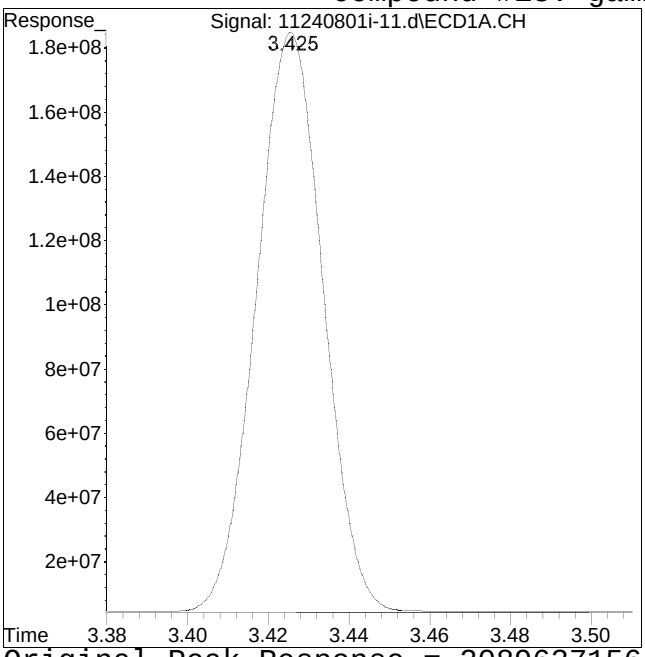
Original Peak Response = 1983387854 Manual Peak Response = 1980988231 M4
M4 = Poor automated baseline construction.

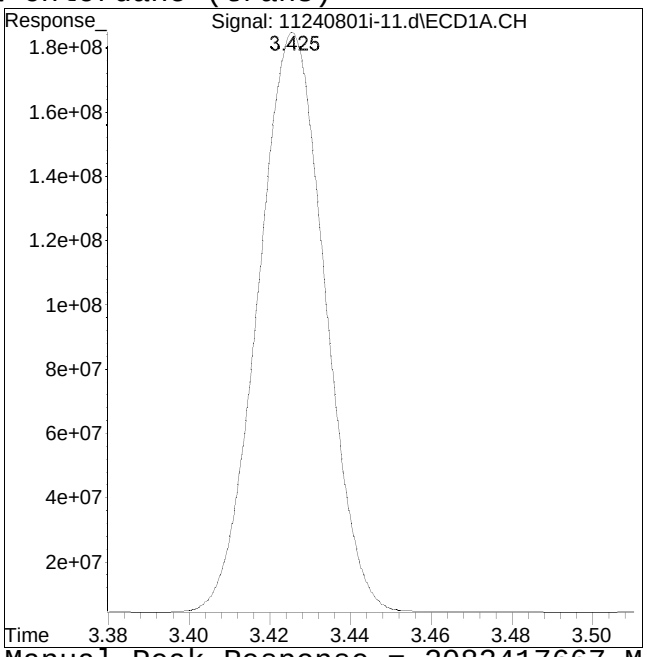
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #13: gamma-Chlordane (trans)





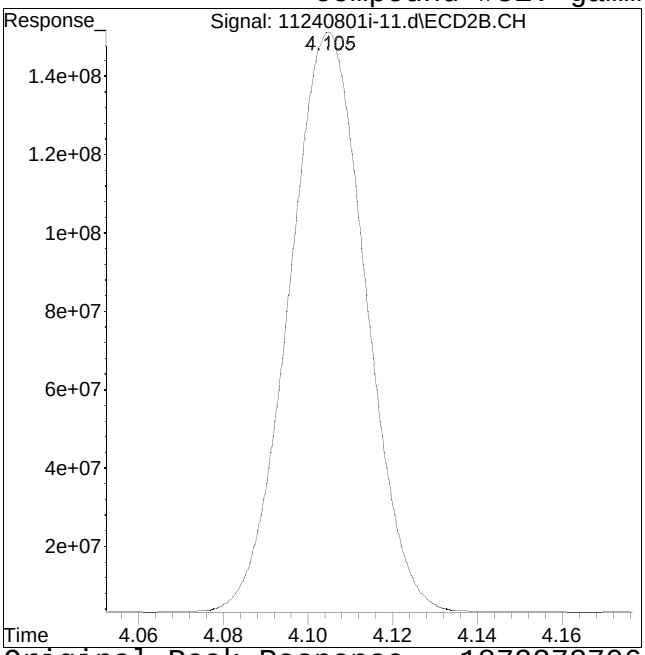
Original Peak Response = 2089637156 Manual Peak Response = 2083417667 M4
M4 = Poor automated baseline construction.

Manual Integration Report

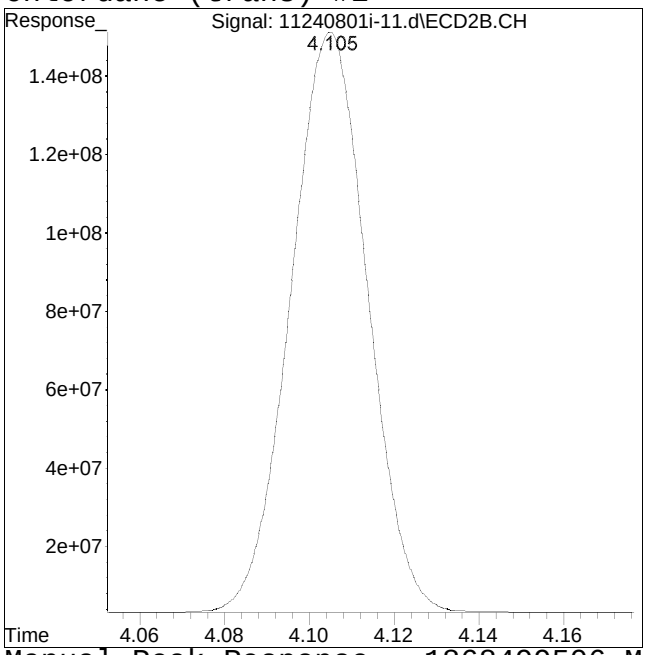
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 1872273706



Manual Peak Response = 1868499506 M4

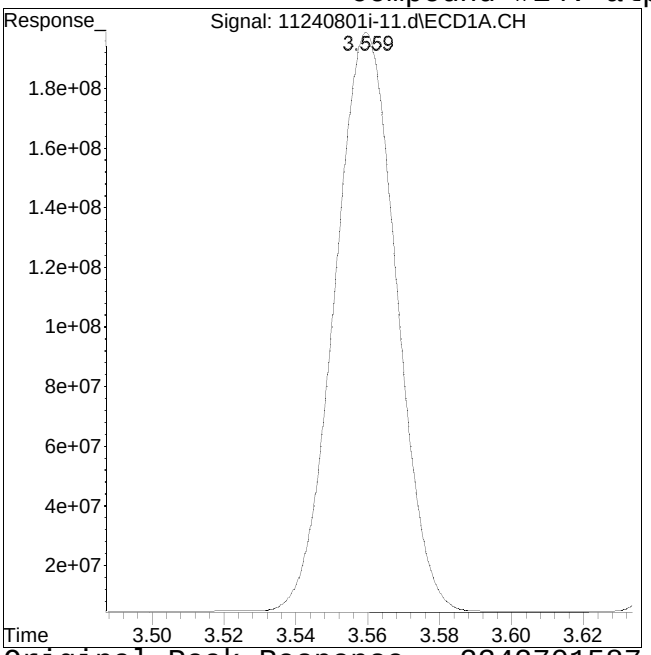
M4 = Poor automated baseline construction.

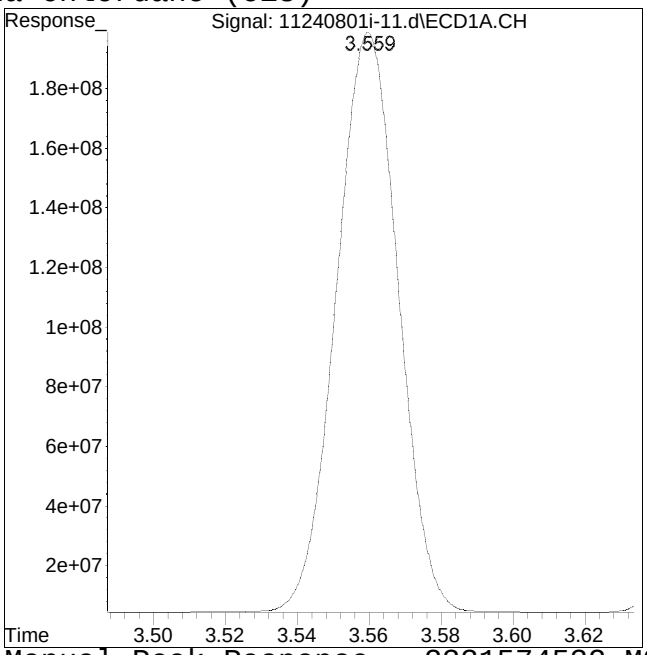
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #14: alpha-Chlordane (cis)





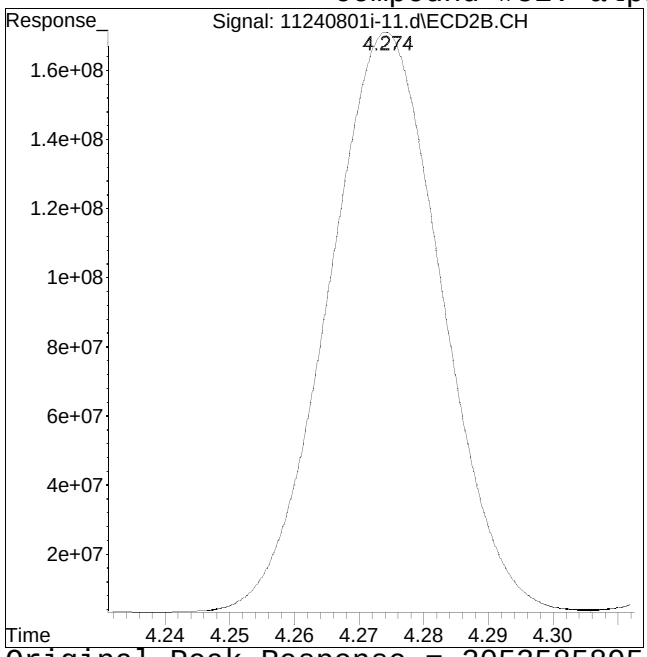
Original Peak Response = 2342701587 Manual Peak Response = 2331574532 M3

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

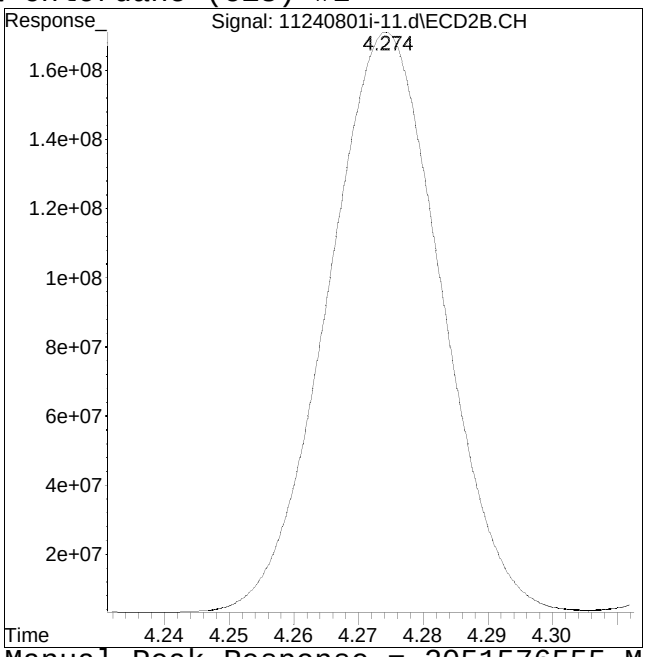
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 2053585895



Manual Peak Response = 2051576555 M4

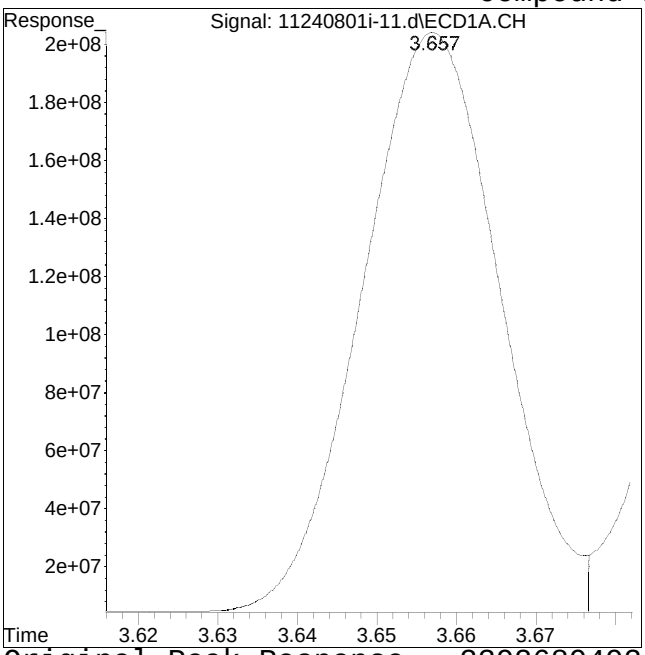
M4 = Poor automated baseline construction.

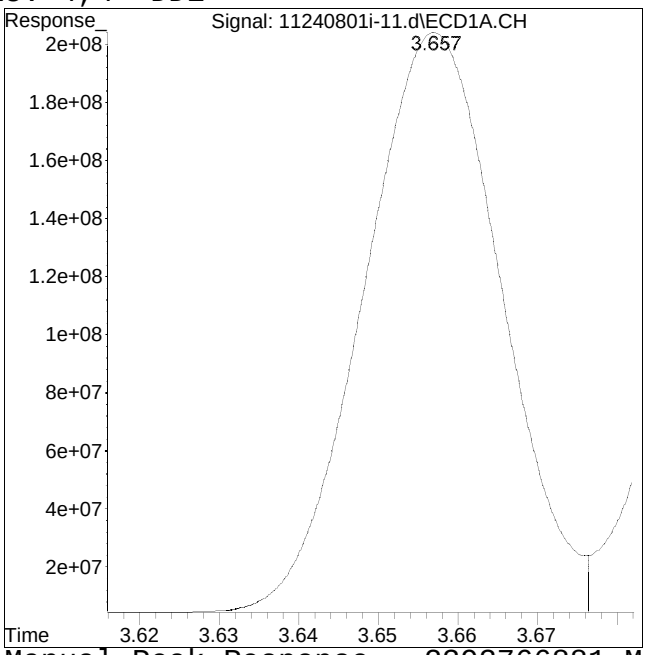
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #15: 4,4'-DDE





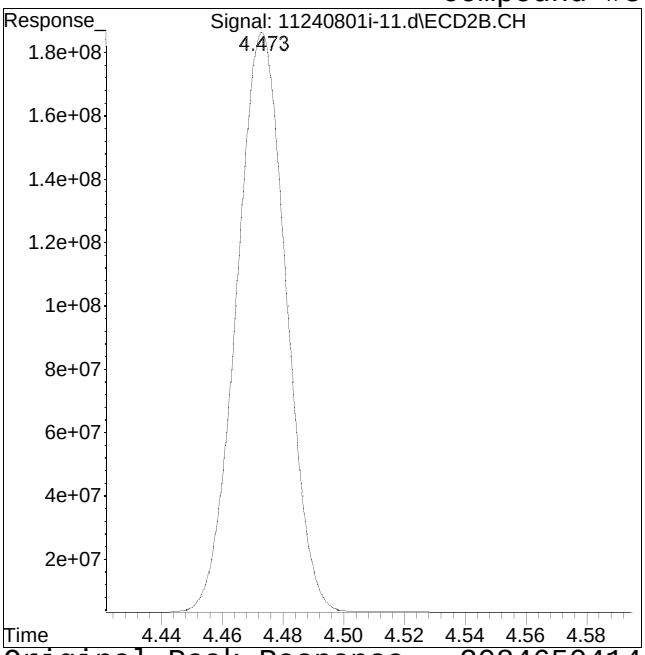
Original Peak Response = 2392689493 Manual Peak Response = 2393766881 M4
M4 = Poor automated baseline construction.

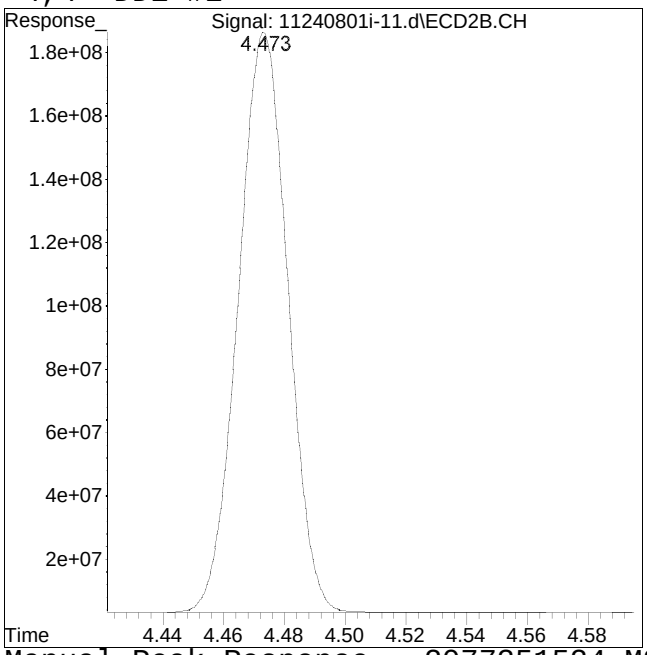
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #53: 4,4'-DDE #2





Original Peak Response = 2084650414 Manual Peak Response = 2077351524 M3

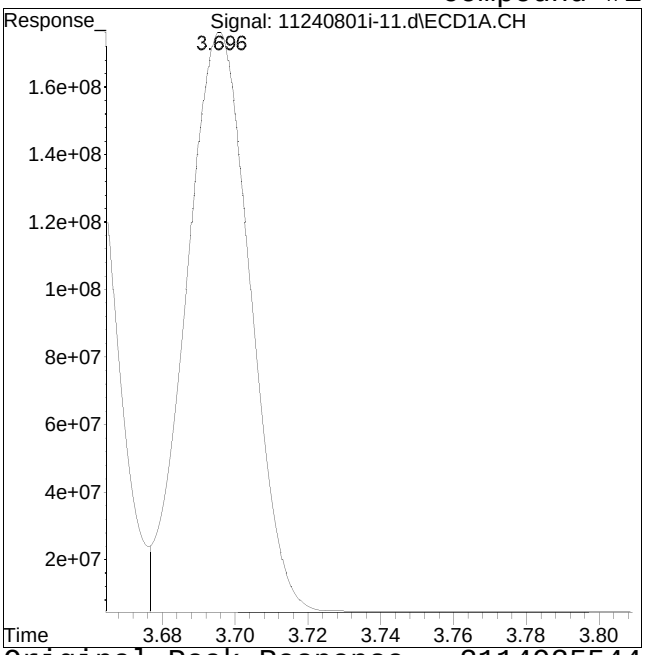
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

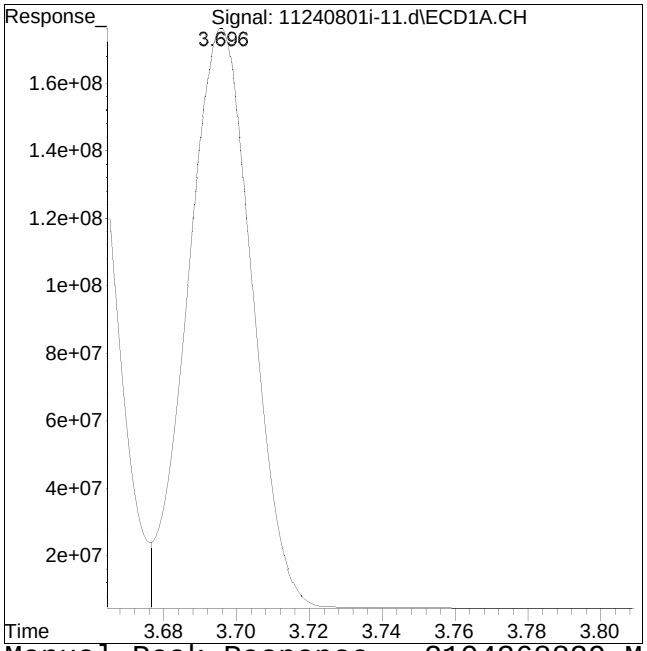
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #16: Endosulfan I



Original Peak Response = 2114925544



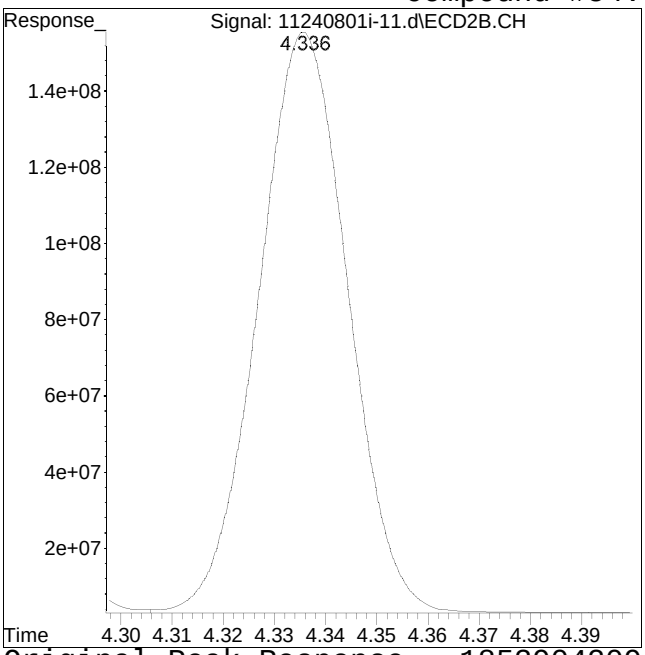
Manual Peak Response = 2104368839 M4

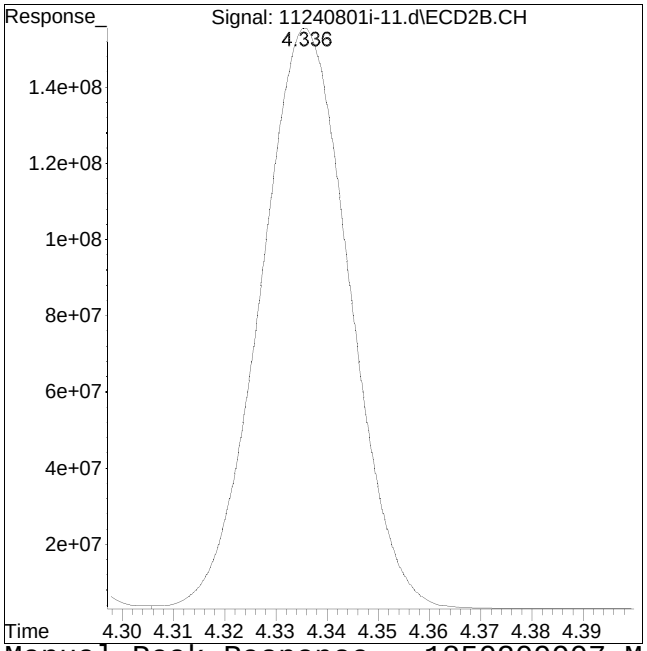
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #54: Endosulfan I #2





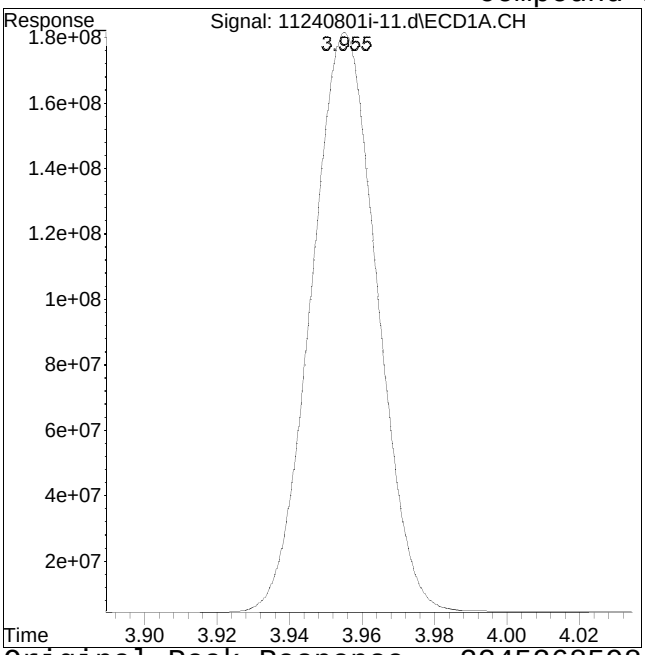
Original Peak Response = 1853904209 Manual Peak Response = 1850209907 M4
M4 = Poor automated baseline construction.

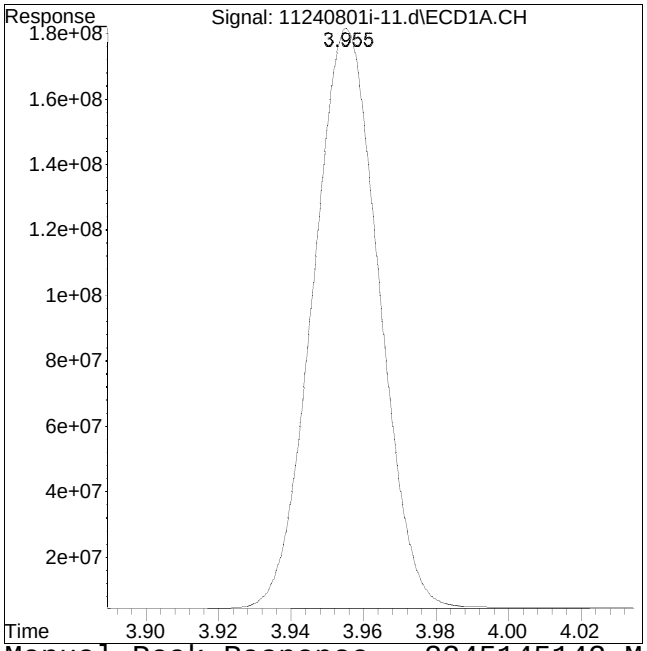
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #17: Dieldrin



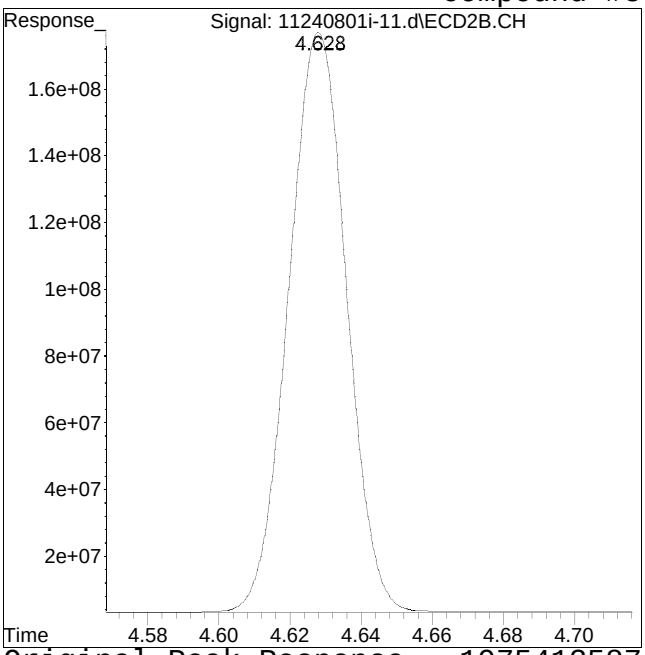


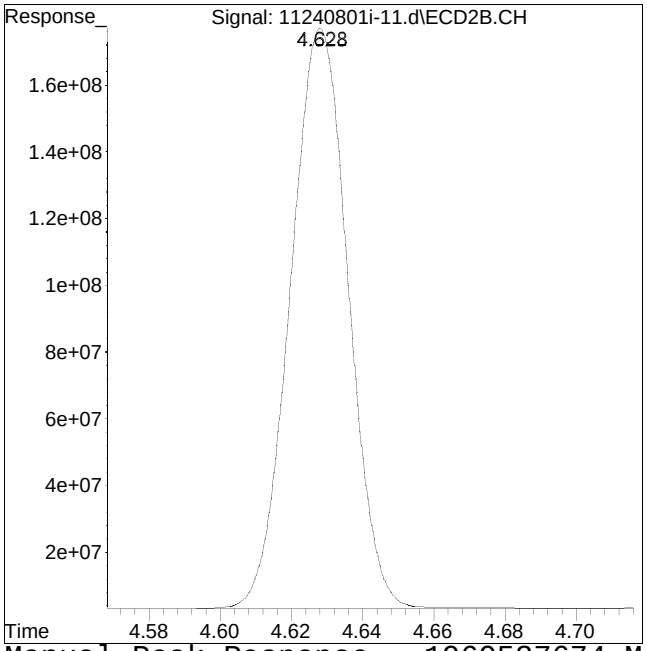
Original Peak Response = 2245268598 Manual Peak Response = 2245145142 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #55: Dieldrin #2



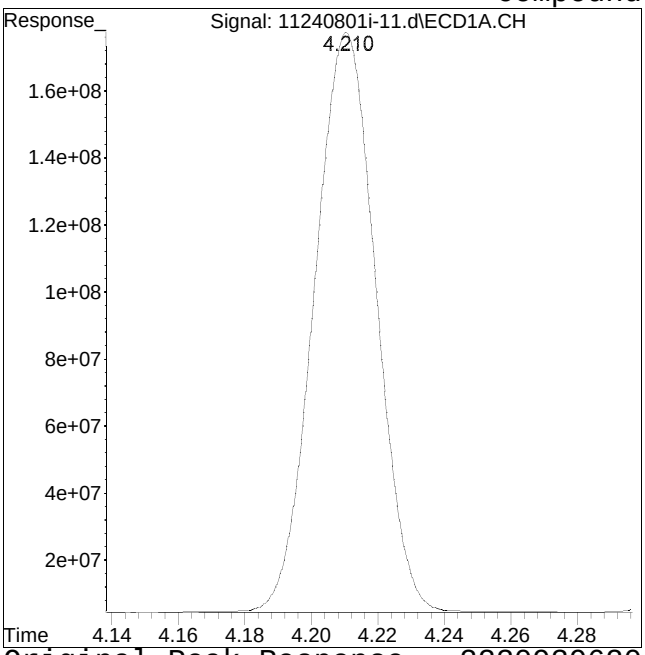


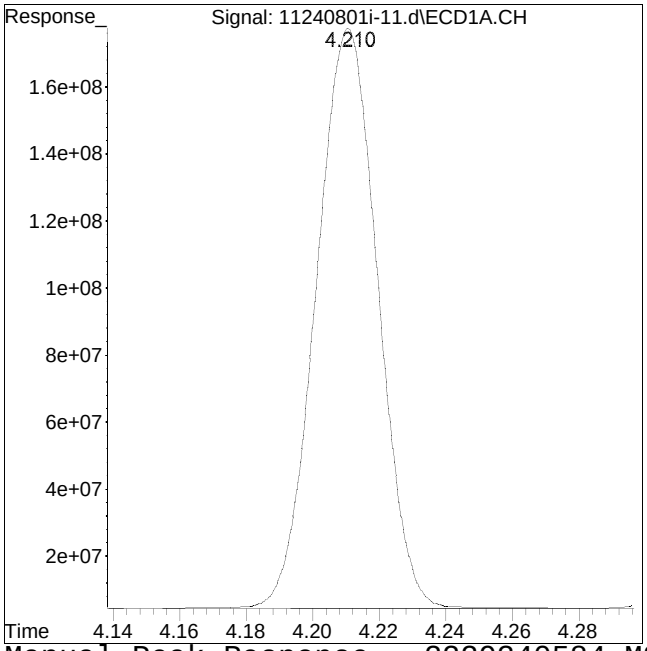
Original Peak Response = 1975413587 Manual Peak Response = 1969537674 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #18: Endrin



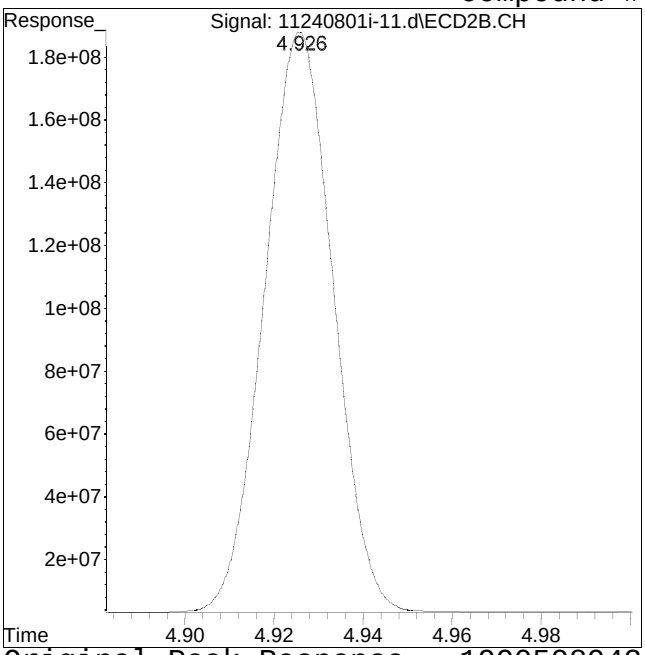


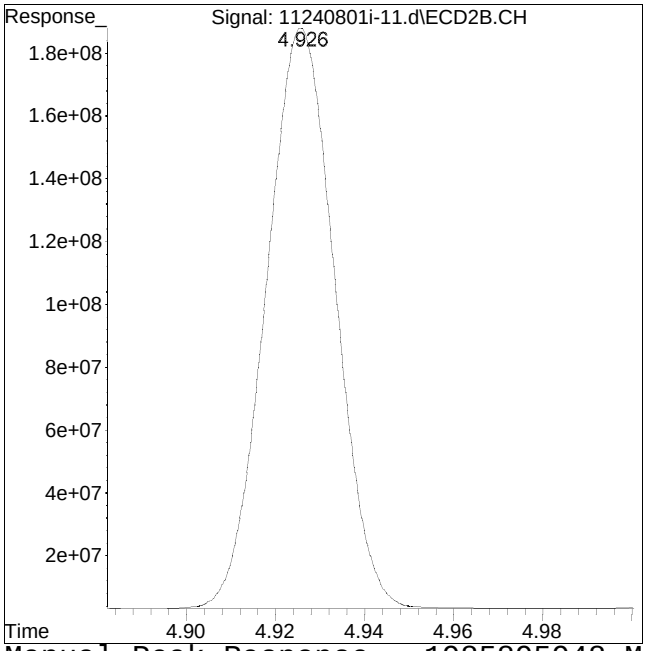
Original Peak Response = 2230939620 Manual Peak Response = 2229340584 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #56: Endrin #2





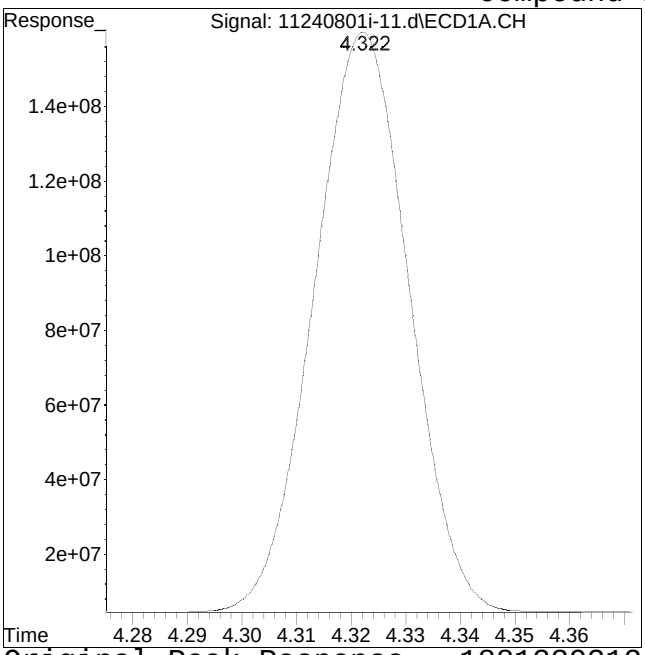
Original Peak Response = 1990508943 Manual Peak Response = 1985895948 M4
M4 = Poor automated baseline construction.

Manual Integration Report

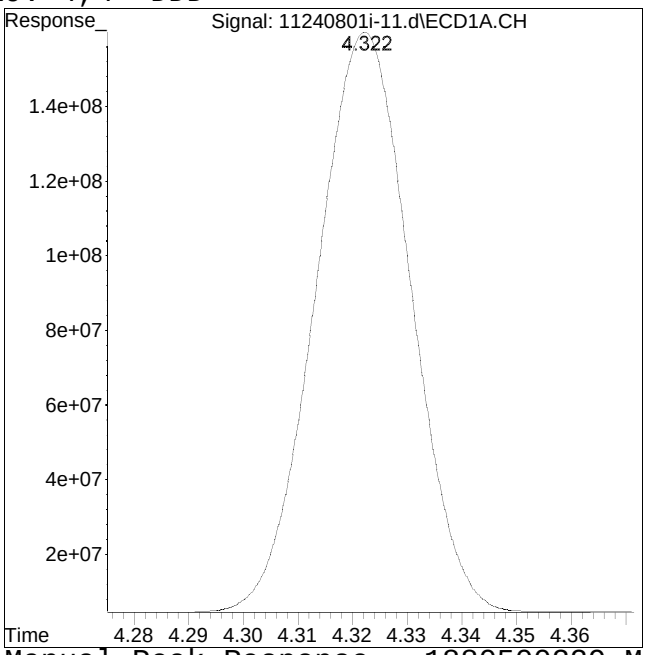
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #19: 4,4'-DDD



Original Peak Response = 1881239312



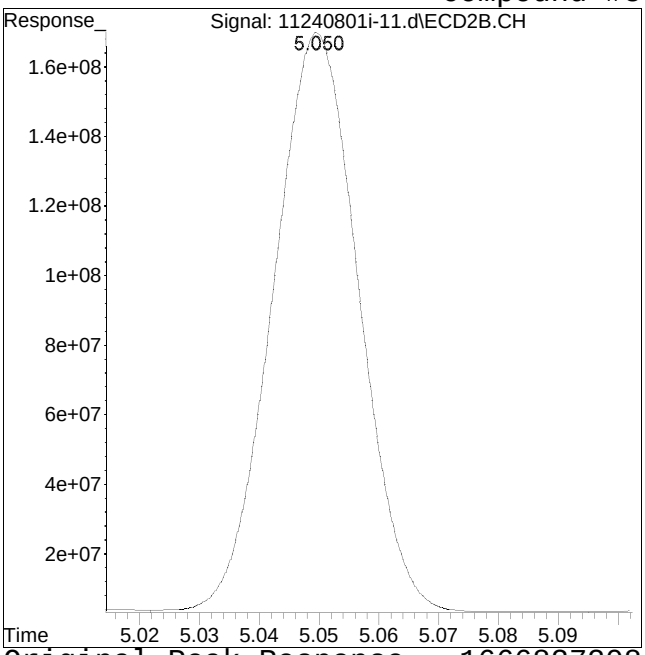
Manual Peak Response = 1880500229 M4

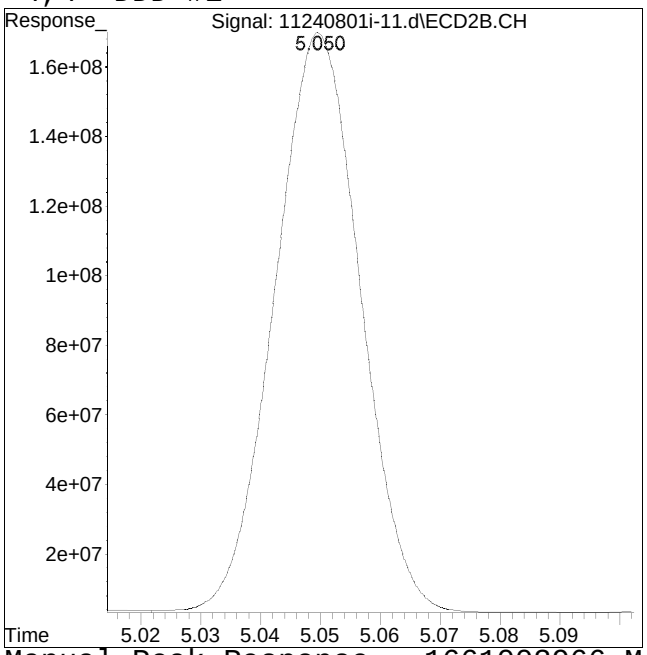
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #57: 4,4'-DDD #2





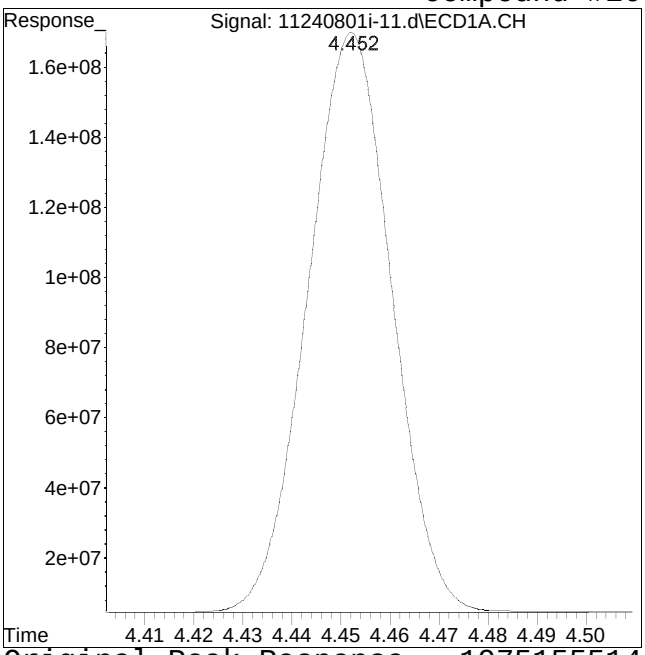
Original Peak Response = 1666827208 Manual Peak Response = 1661003966 M4
M4 = Poor automated baseline construction.

Manual Integration Report

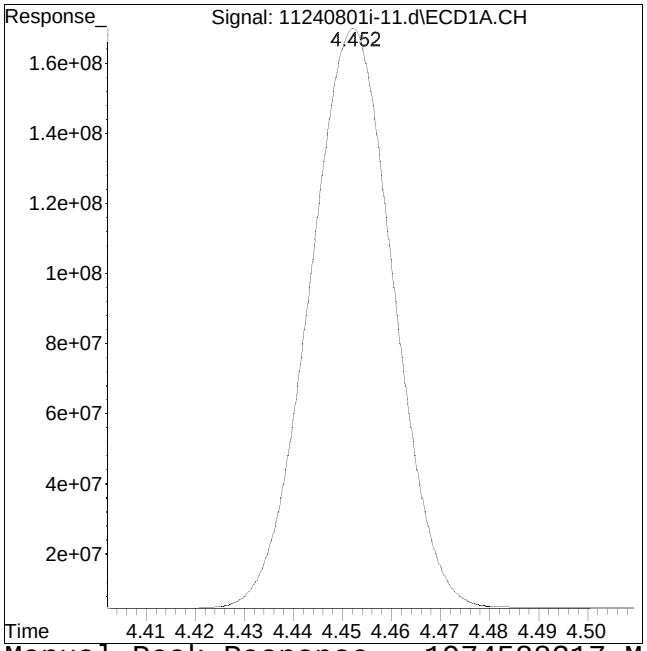
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #20: Endosulfan II



Original Peak Response = 1975155514



Manual Peak Response = 1974588317 M4

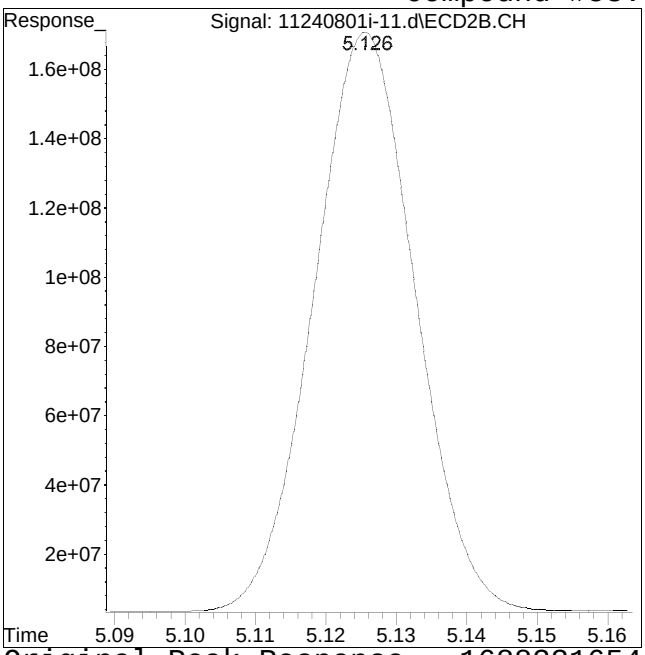
M4 = Poor automated baseline construction.

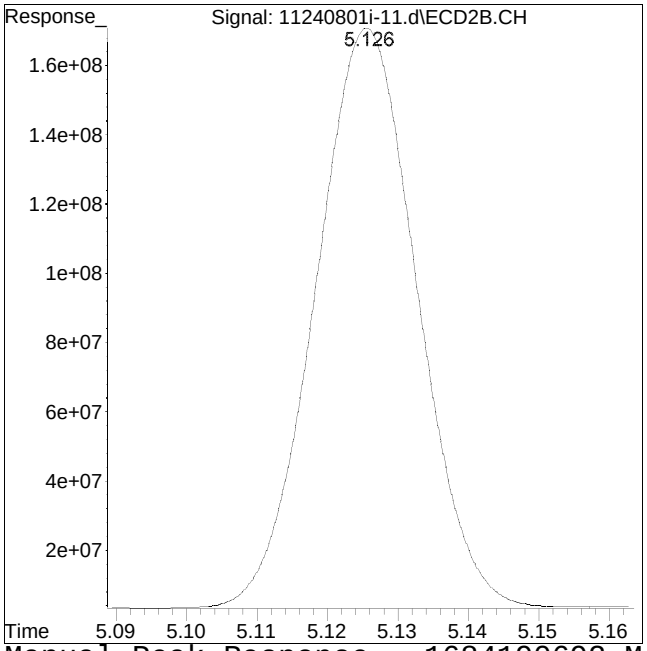
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #58: Endosulfan II #2





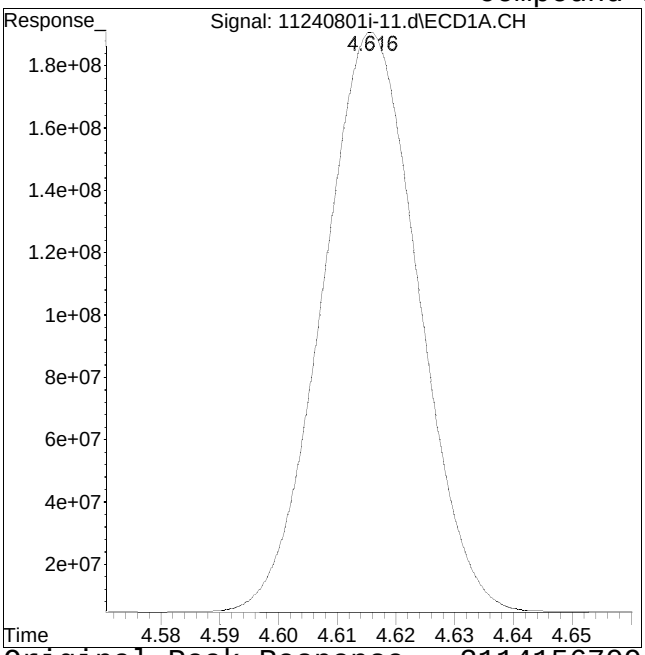
Original Peak Response = 1688331654 Manual Peak Response = 1684190692 M4
M4 = Poor automated baseline construction.

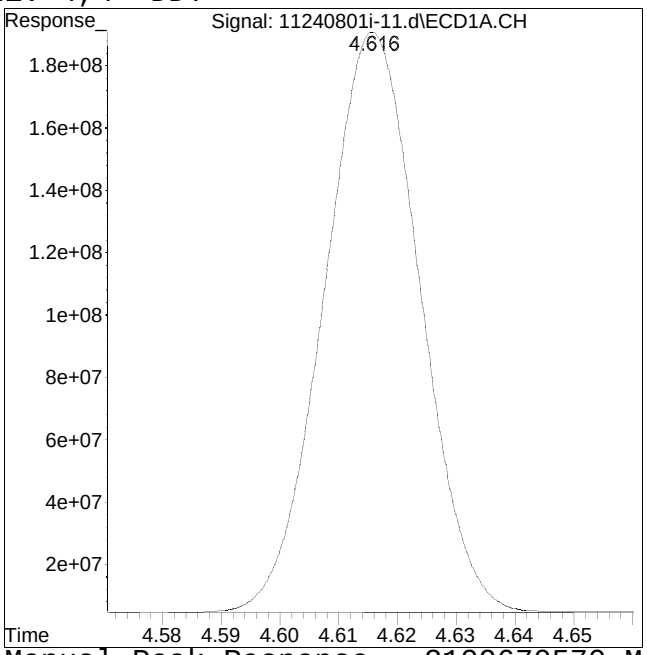
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #21: 4,4'-DDT



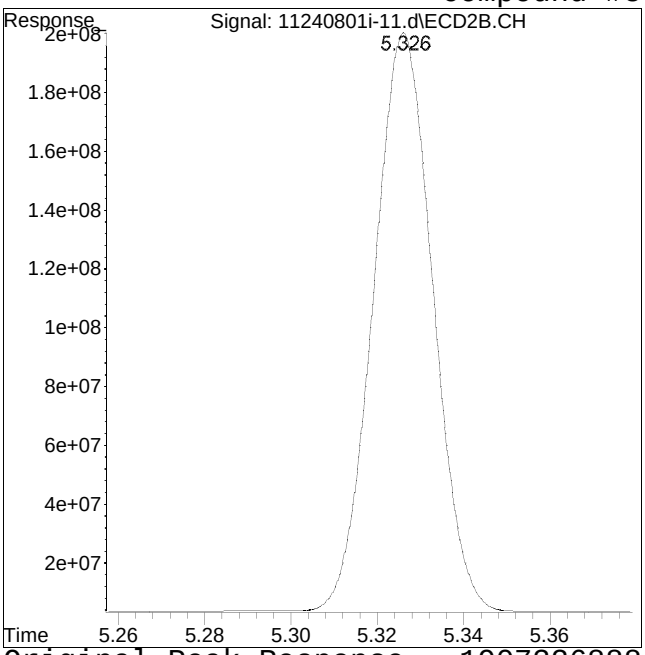


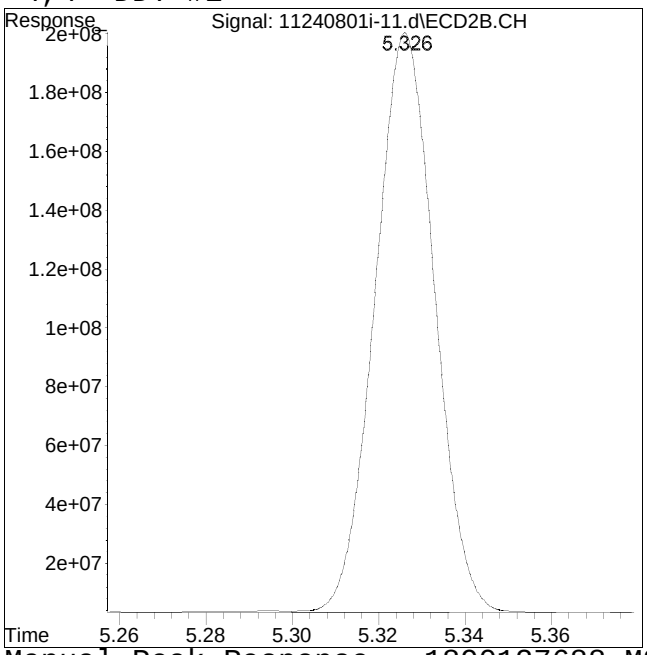
Original Peak Response = 2114156709 Manual Peak Response = 2109670570 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #59: 4,4'-DDT #2



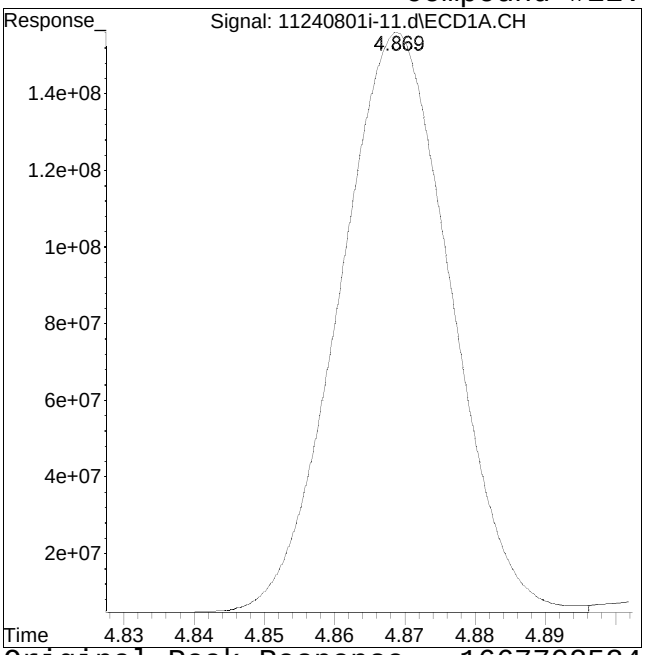


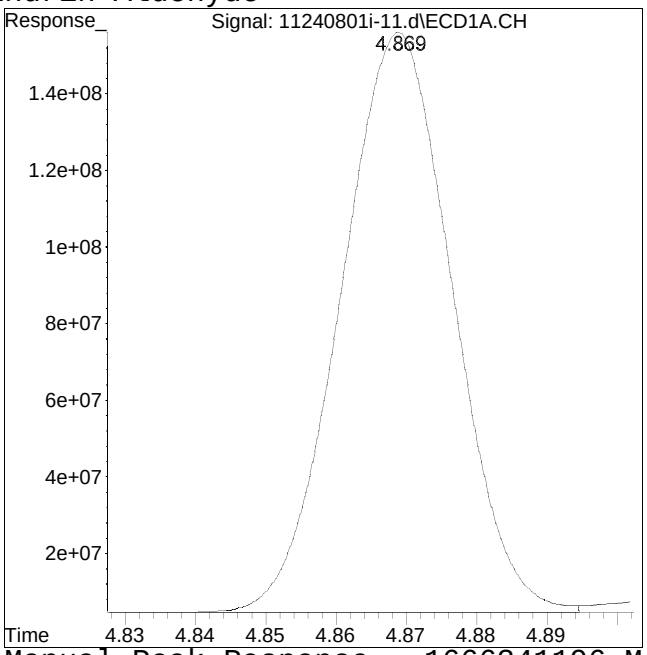
Original Peak Response = 1907326888 Manual Peak Response = 1890127688 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #22: Endrin Aldehyde



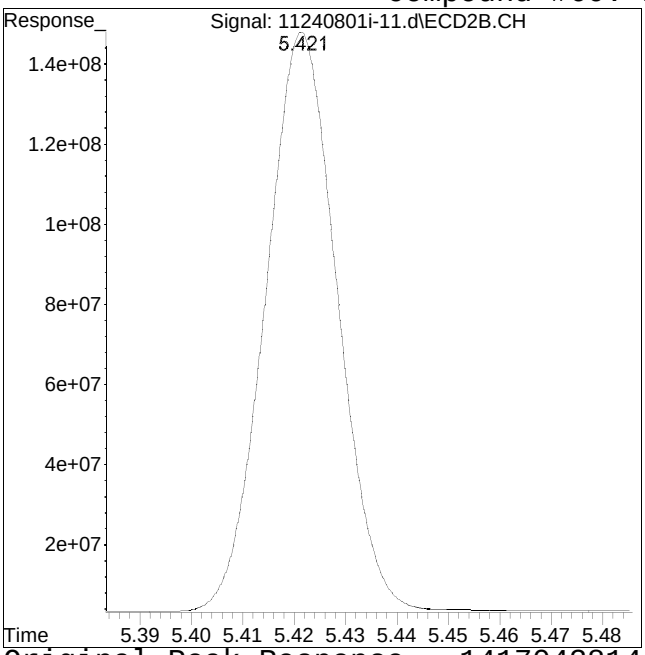


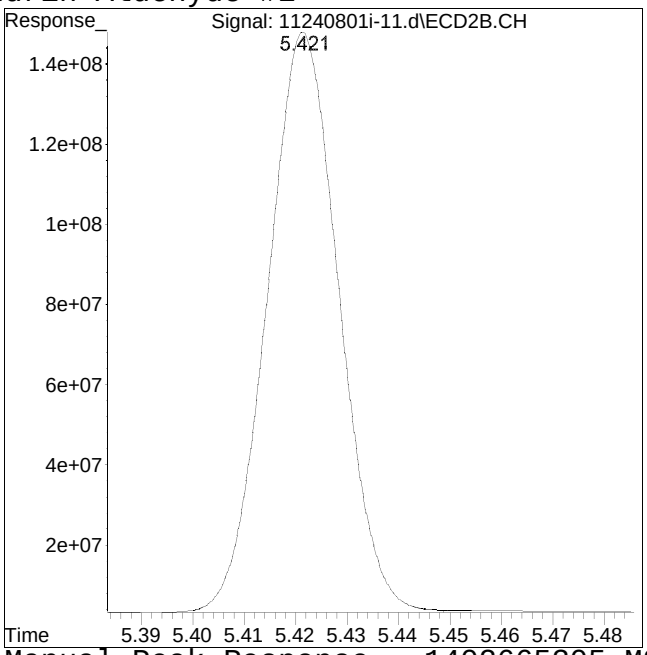
Original Peak Response = 1667702524 Manual Peak Response = 1666341196 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #60: Endrin Aldehyde #2





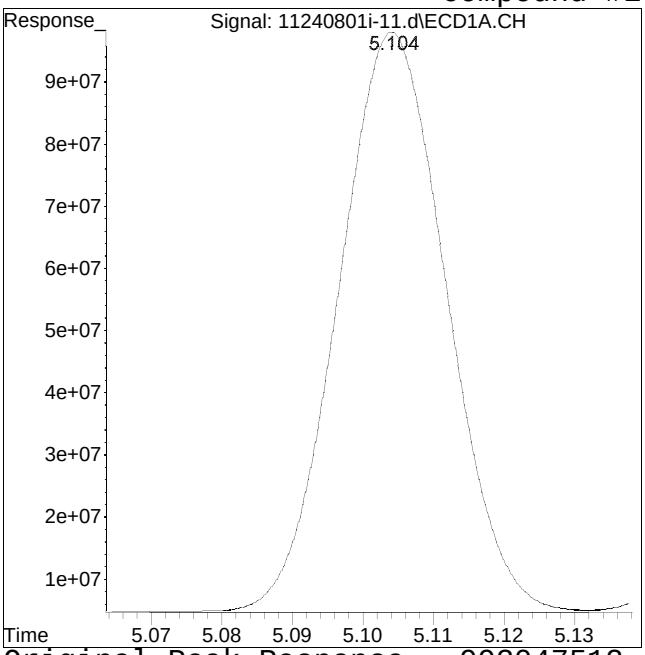
Original Peak Response = 1417043814 Manual Peak Response = 1402665305 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

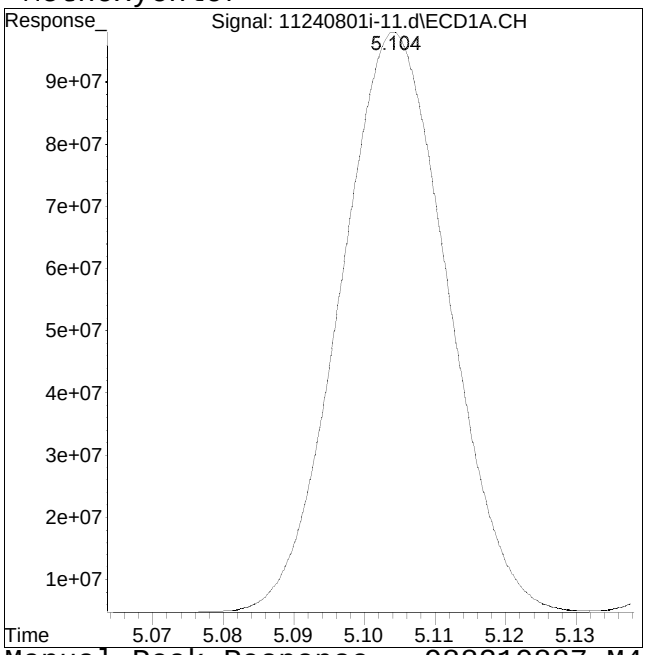
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #23: Methoxychlor



Original Peak Response = 993047512



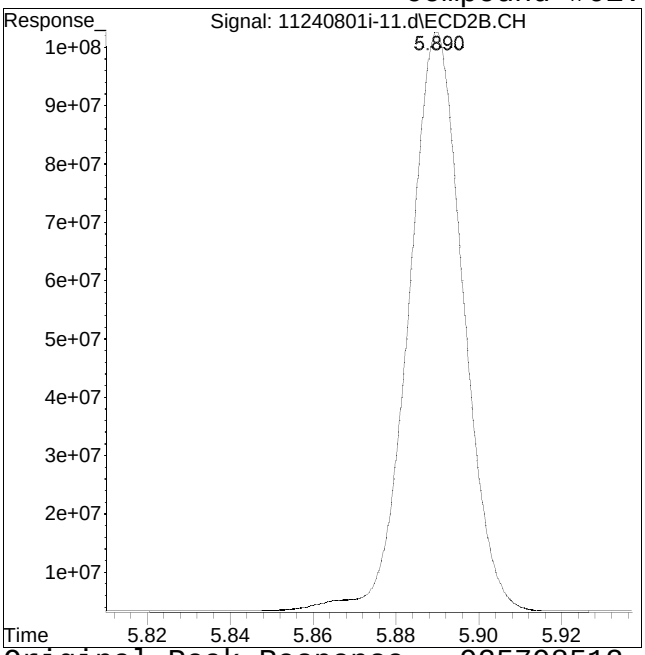
Manual Peak Response = 988310887 M4

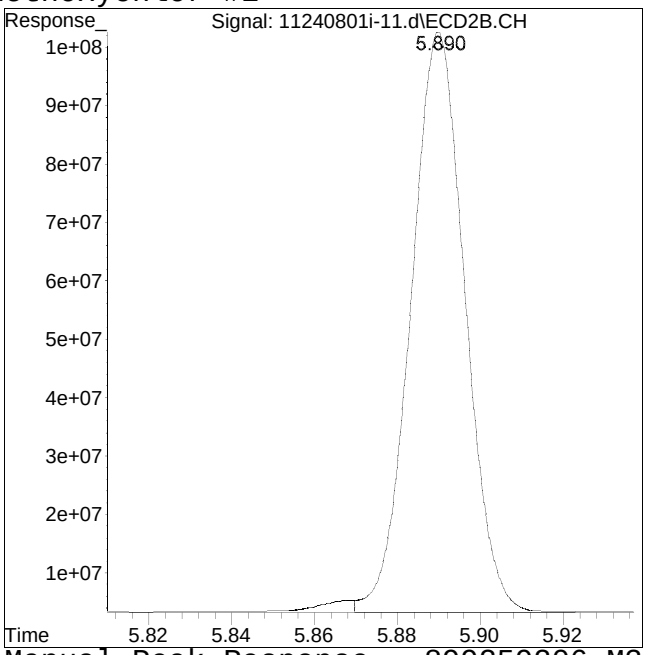
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-11.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:12 Instrument : Pest 11
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/2/2024 9:29 am

Compound #61: Methoxychlor #2



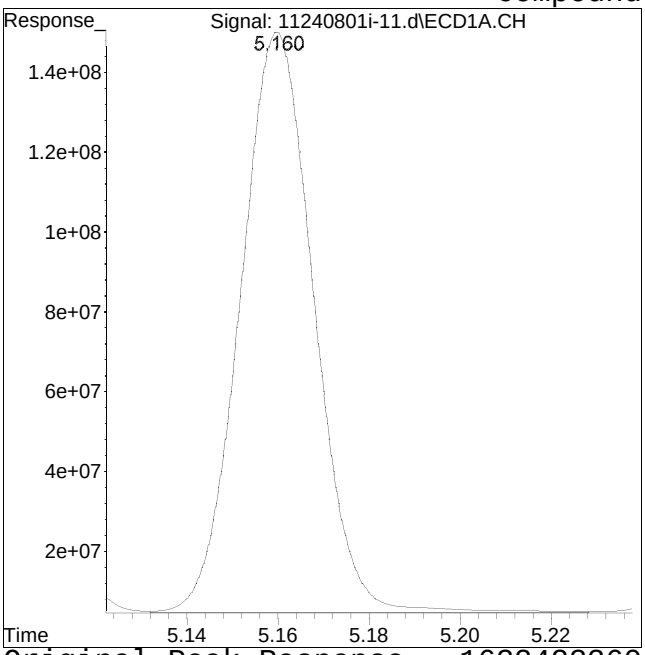


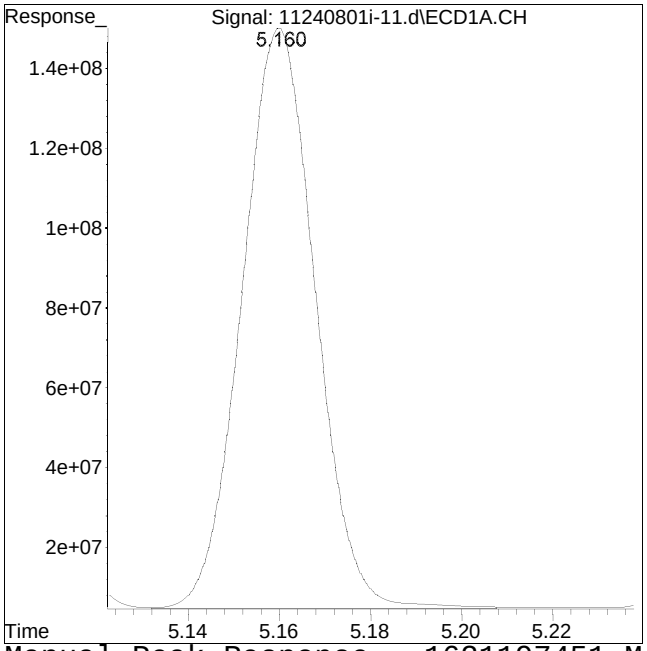
Original Peak Response = 925798512 Manual Peak Response = 899259206 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-11.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:12 Instrument : Pest 11
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/2/2024 9:29 am

Compound #24: Mirex





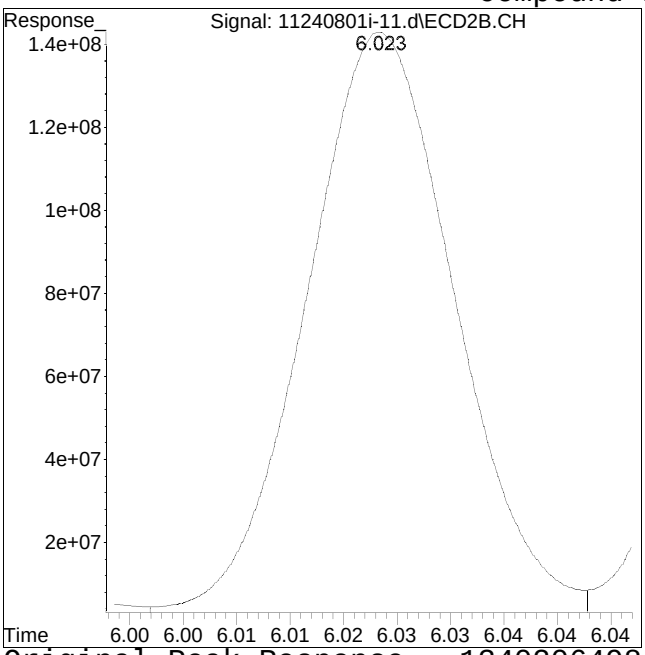
Original Peak Response = 1632423360 Manual Peak Response = 1621197451 M4
M4 = Poor automated baseline construction.

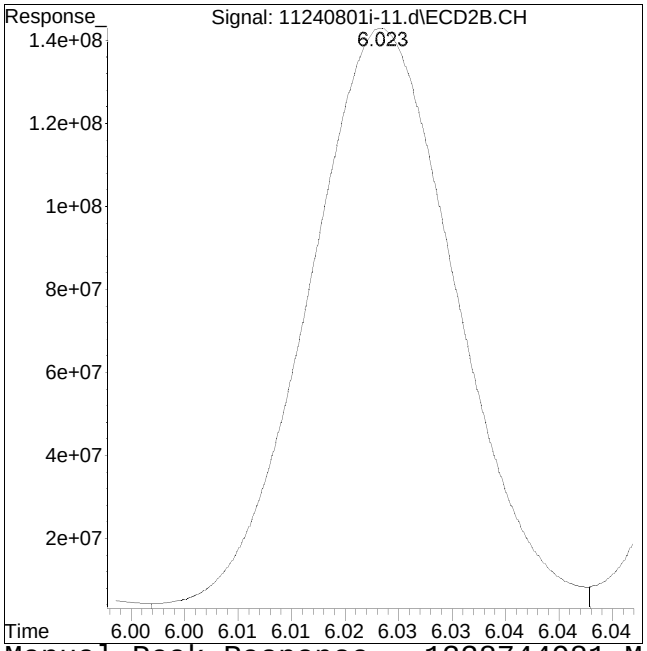
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #62: Mirex #2





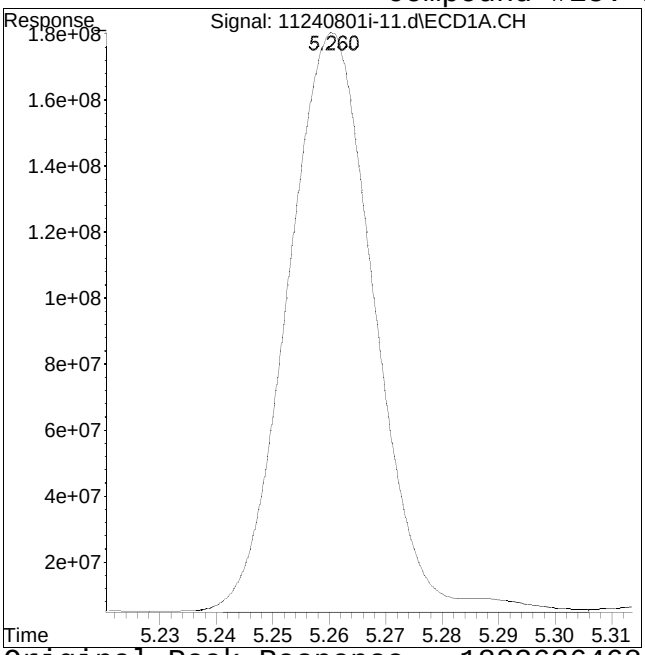
Original Peak Response = 1340206498 Manual Peak Response = 1338744981 M4
M4 = Poor automated baseline construction.

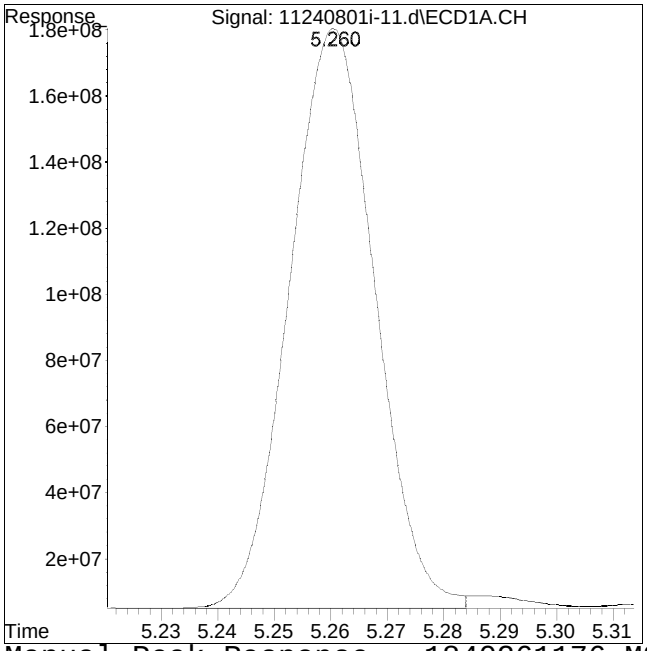
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #25: Endosulfan Sulfate





Original Peak Response = 1883636468 Manual Peak Response = 1840261176 M3

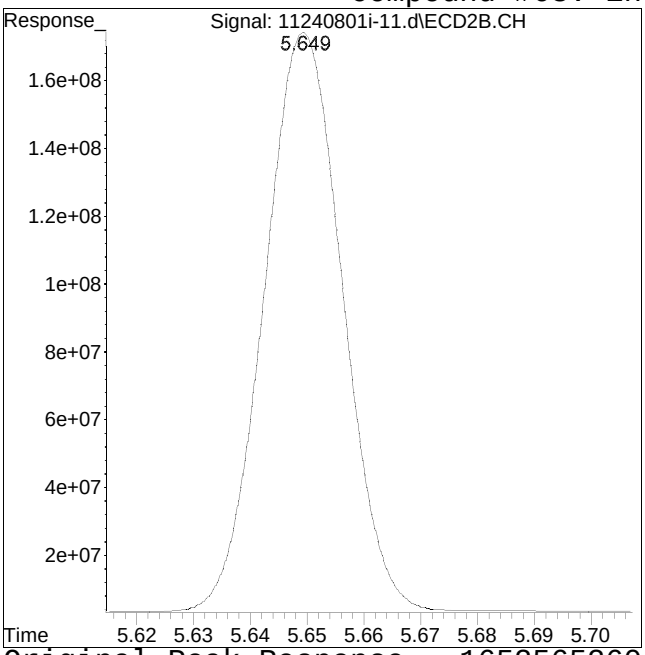
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

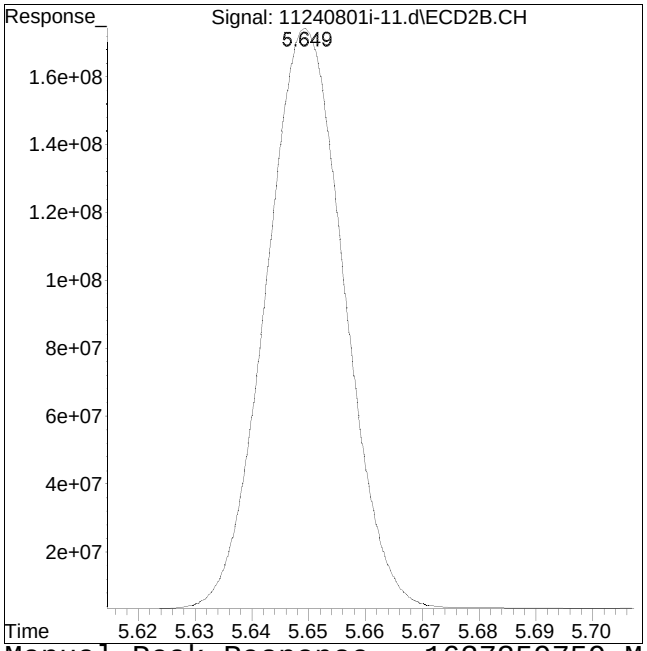
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #63: Endosulfan Sulfate #2



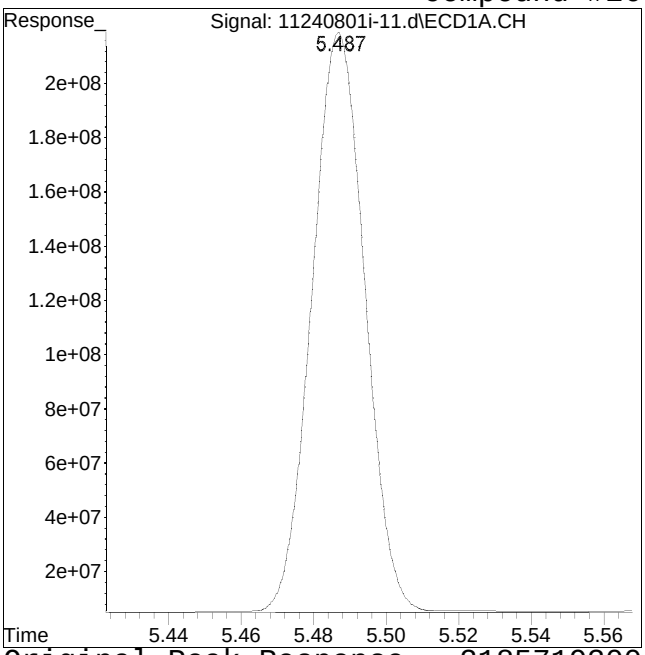


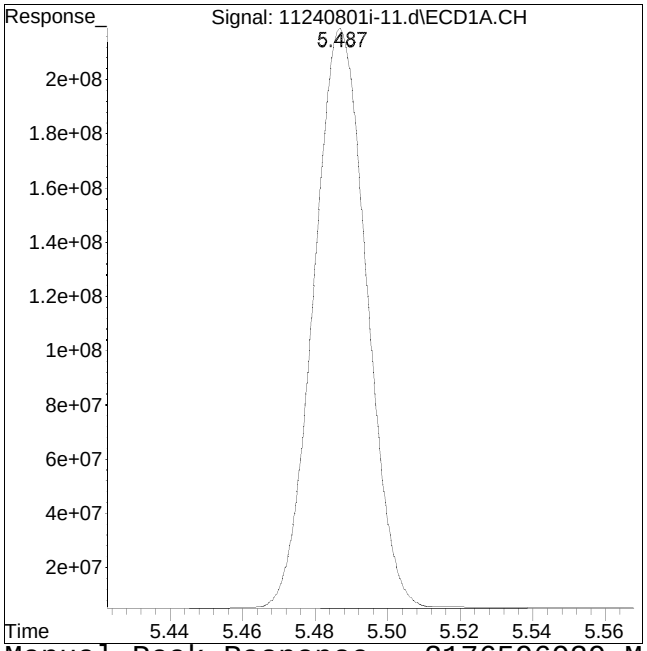
Original Peak Response = 1652565260 Manual Peak Response = 1637359759 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-11.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:12 Instrument : Pest 11
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/2/2024 9:29 am

Compound #26: Endrin Ketone





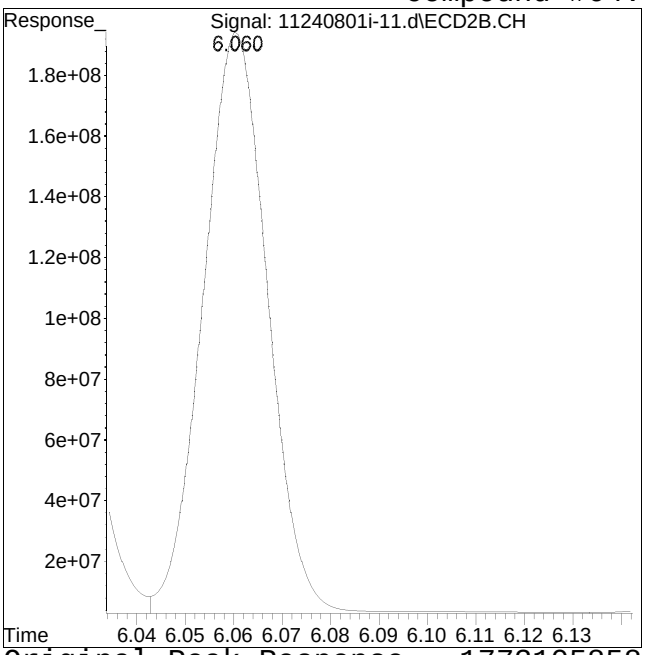
Original Peak Response = 2185719300 Manual Peak Response = 2176596939 M4
M4 = Poor automated baseline construction.

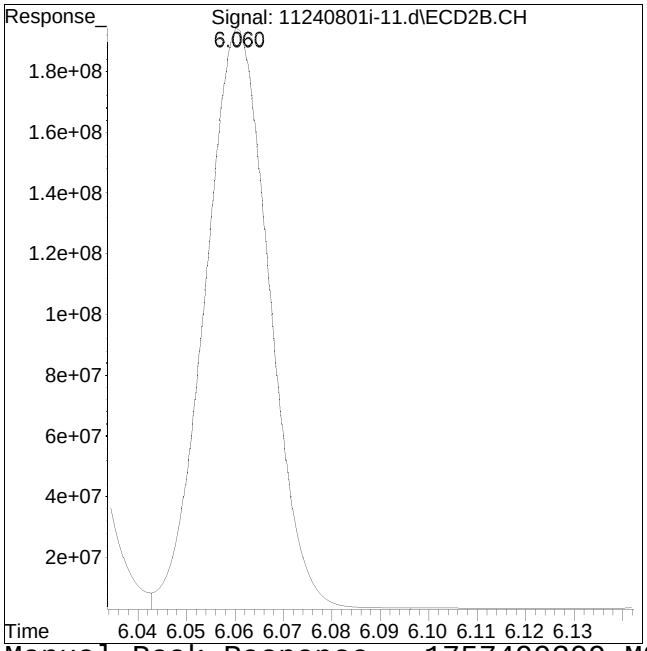
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #64: Endrin Ketone #2





Original Peak Response = 1773105858 Manual Peak Response = 1757499309 M3

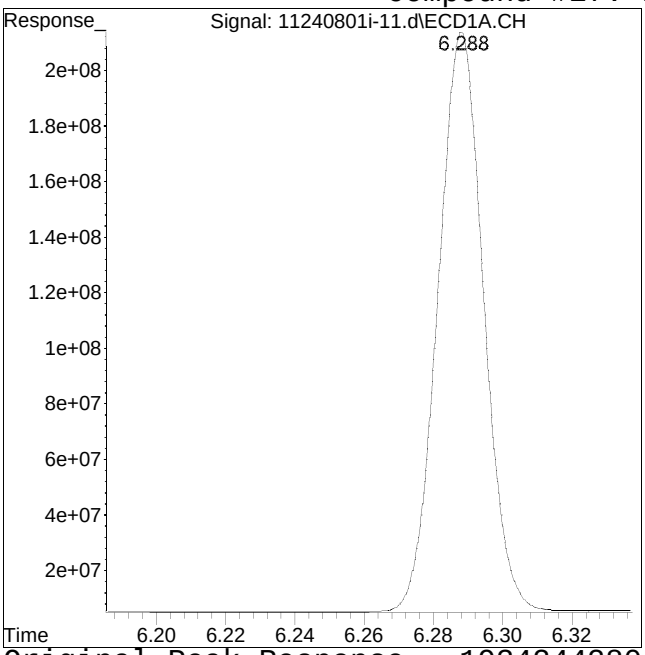
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

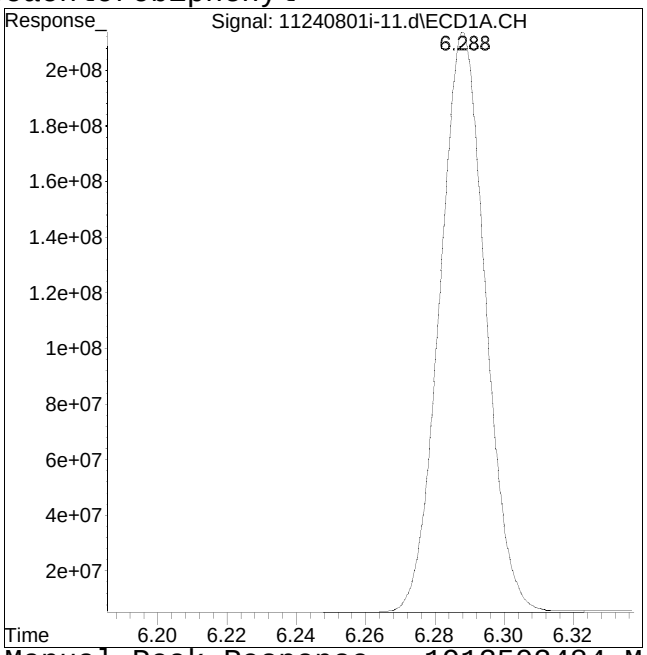
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #27: Decachlorobiphenyl



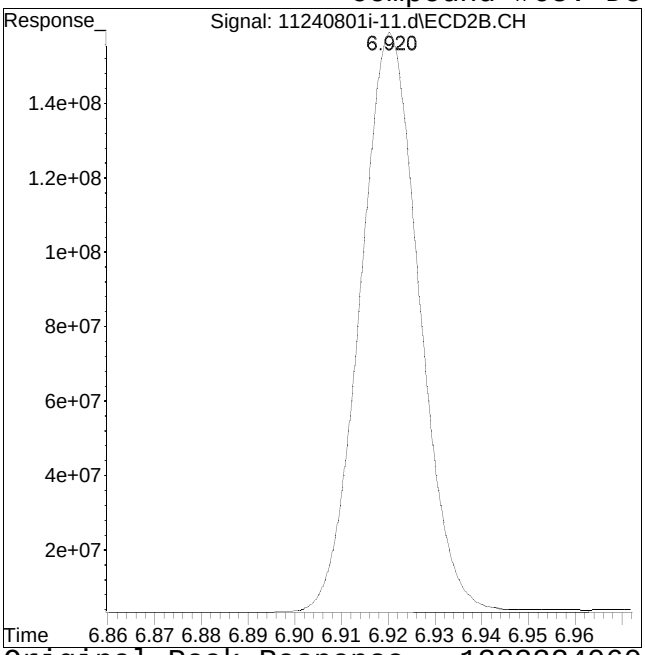


Original Peak Response = 1934244280 Manual Peak Response = 1913503484 M4
M4 = Poor automated baseline construction.

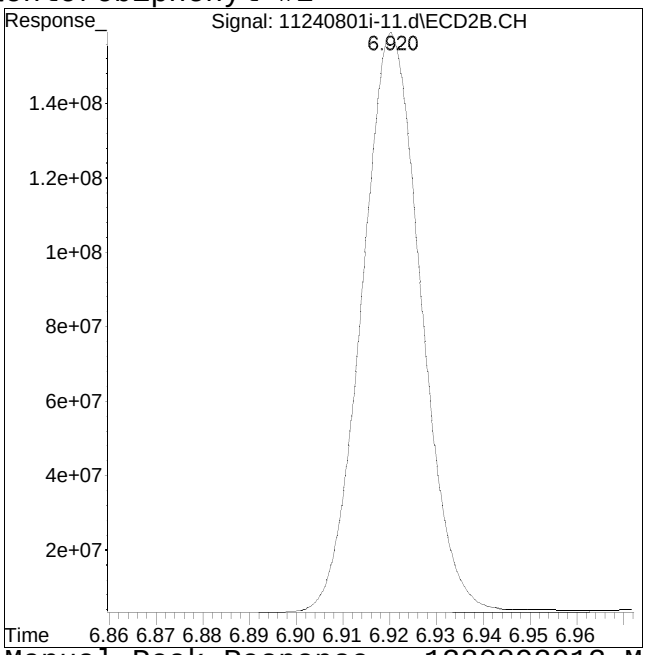
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 1383324060



Manual Peak Response = 1380892913 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:25
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:58:56 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:38:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.310	1.386	219.1E6	172.6E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.653	1.859	3436.3E6	2866.4E6	375.795M3	383.994
	Spiked Amount 50.000	Range 30 - 150		Recovery =		751.59%#	767.99%#
27) s	Decachlorobi	6.288	6.919	3542.0E6	2565.1E6	389.672M4	396.514M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		779.34%#	793.03%#
	Target Compounds						
3) t	Hexachlorobe	1.866	2.179	4393.8E6	3054.6E6	374.440M3	386.397M4
4) t	alpha-BHC	1.965	2.272	5474.0E6	4748.1E6	387.113M3	397.820M3
5) t	gamma-BHC (l	2.167	2.558	5015.2E6	4254.3E6	385.346M4	395.569
6) t	beta-BHC	2.222	2.623	2035.1E6	1695.7E6	381.357M3	384.044
7) t	delta-BHC	2.351	2.890	5109.5E6	4368.4E6	387.060M4	397.603M4
8) t	Heptachlor	2.514	2.953	4267.4E6	3941.6E6	357.934M4	366.974M4
9) t	Aldrin	2.757	3.272	4276.8E6	3818.0E6	371.928M4	378.594
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	3.302	3.885	3795.3E6	3457.2E6	359.403M3	369.359M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:25
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:58:56 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:38:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)	t	gamma-Chlord	3.426	4.105	3704.6E6	3328.5E6	381.821M4	385.505M4
14)	t	alpha-Chlord	3.560	4.275	4129.5E6	3639.2E6	377.801M3	381.858M4
15)	t	4,4'-DDE	3.658	4.474	4233.9E6	3665.1E6	381.347M4	383.165M3
16)	t	Endosulfan I	3.696	4.336	3638.6E6	3224.0E6	363.740M3	369.311M4
17)	t	Dieldrin	3.956	4.628	3938.0E6	3471.7E6	374.014M4	378.648M4
18)	t	Endrin	4.211	4.926	3882.2E6	3492.7E6	367.059M3	376.416M4
19)	t	4,4'-DDD	4.323	5.050	3366.6E6	3005.8E6	387.600M4	394.381M4
20)	t	Endosulfan I	4.452	5.126	3381.2E6	2907.3E6	357.803M4	364.277M4
21)	t	4,4'-DDT	4.617	5.327	3755.2E6	3373.8E6	384.027M4	387.821M3
22)	t	Endrin Aldeh	4.869	5.422	2950.3E6	2501.6E6	376.997M4	381.397M3
23)	t	Methoxychlor	5.105	5.891	1699.3E6	1603.4E6	350.495M4	373.779M3
24)	t	Mirex	5.160	6.024	2881.7E6	2395.8E6	373.166M3	379.221M4
25)	t	Endosulfan S	5.261	5.650	3233.7E6	2911.3E6	369.599M3	378.677M3
26)	t	Endrin Keton	5.487	6.061	3805.9E6	3138.1E6	363.553M4	377.488M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:25
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:58:56 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:38:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	chlordane-1					0.000	0.000
34)	l2 toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2 toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2 toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2 toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

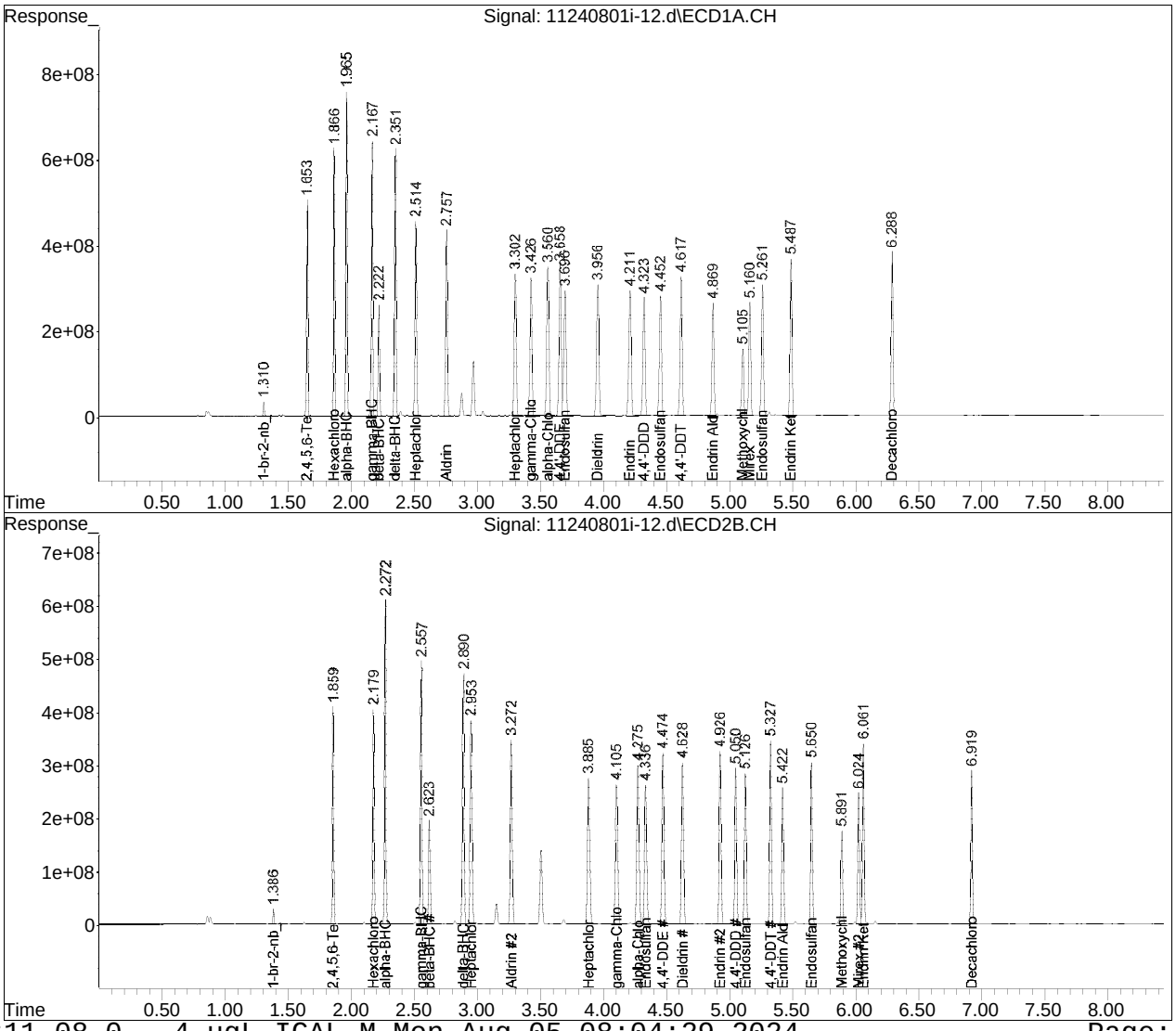
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:25
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:58:56 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:38:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

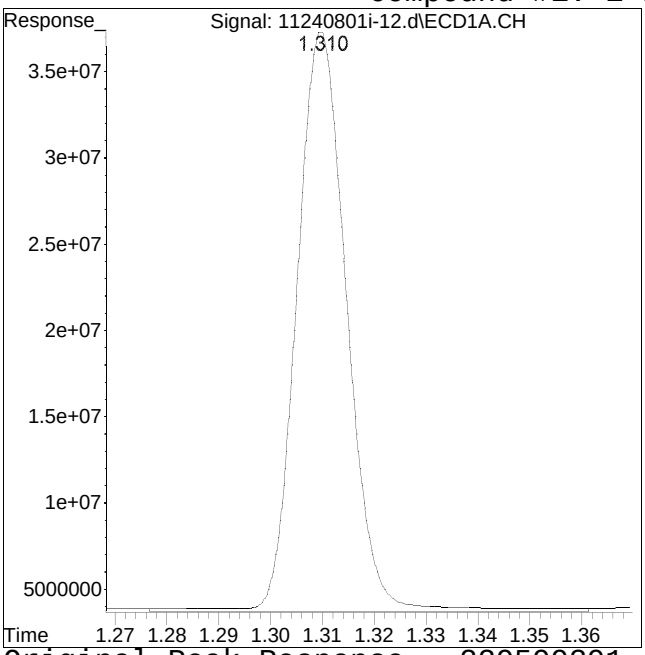
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



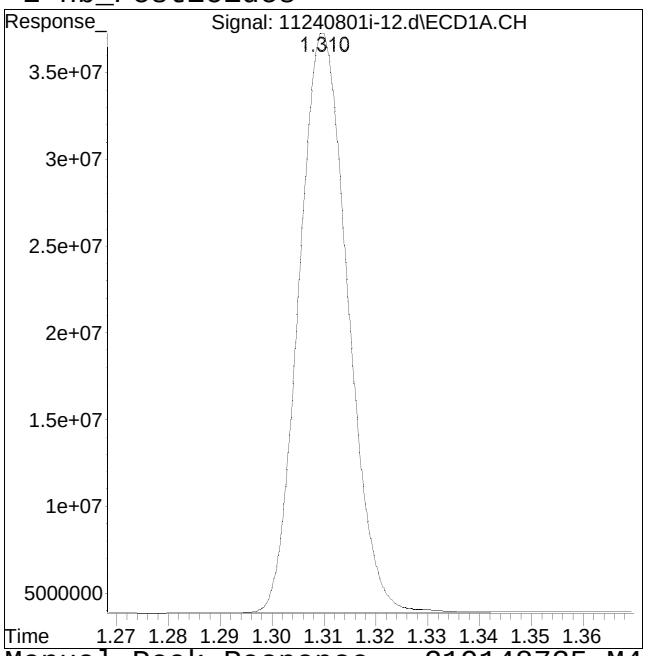
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 229599391



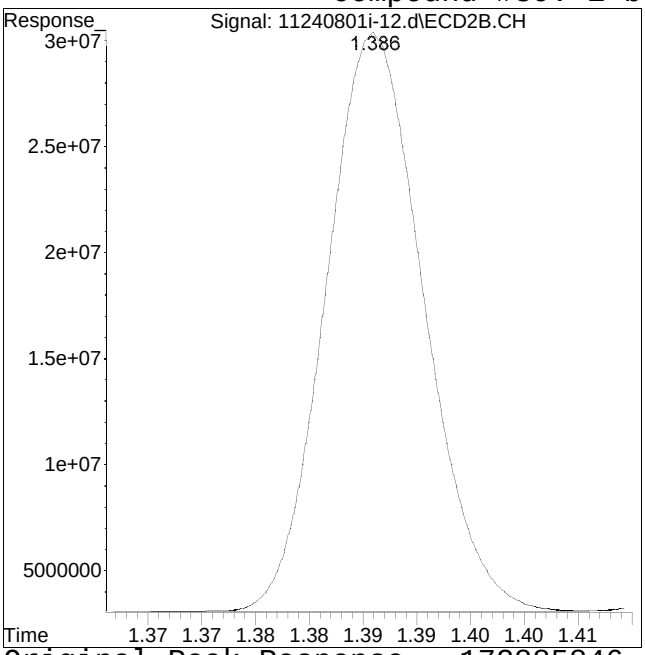
Manual Peak Response = 219148735 M4

M4 = Poor automated baseline construction.

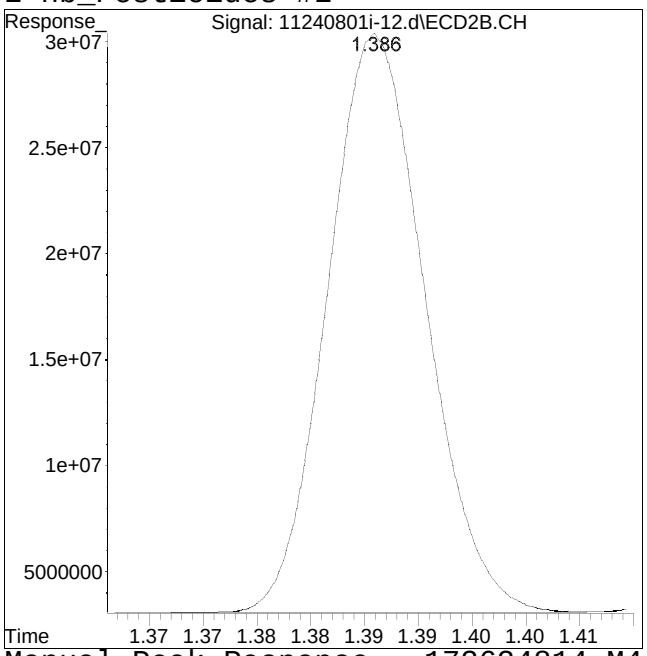
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 172885846



Manual Peak Response = 172624814 M4

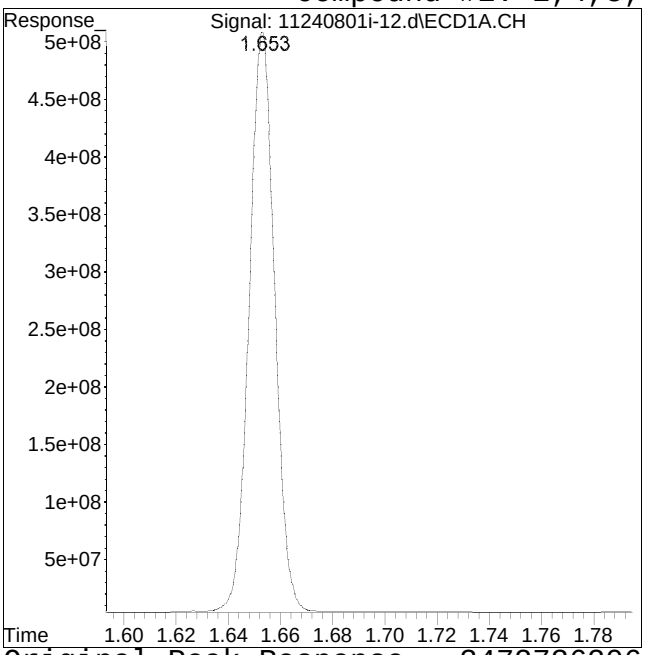
M4 = Poor automated baseline construction.

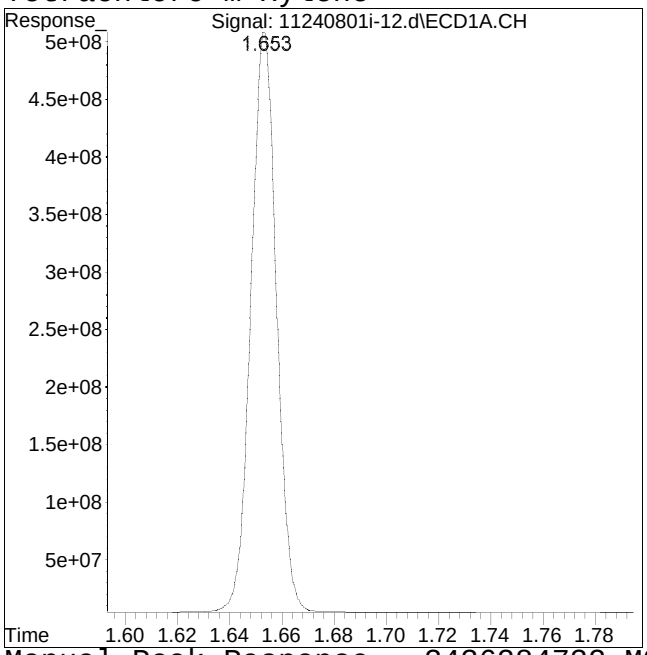
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



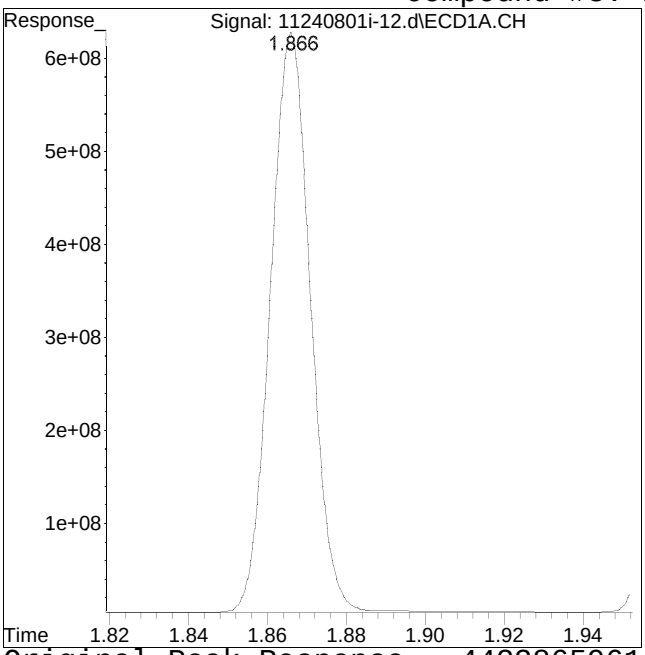


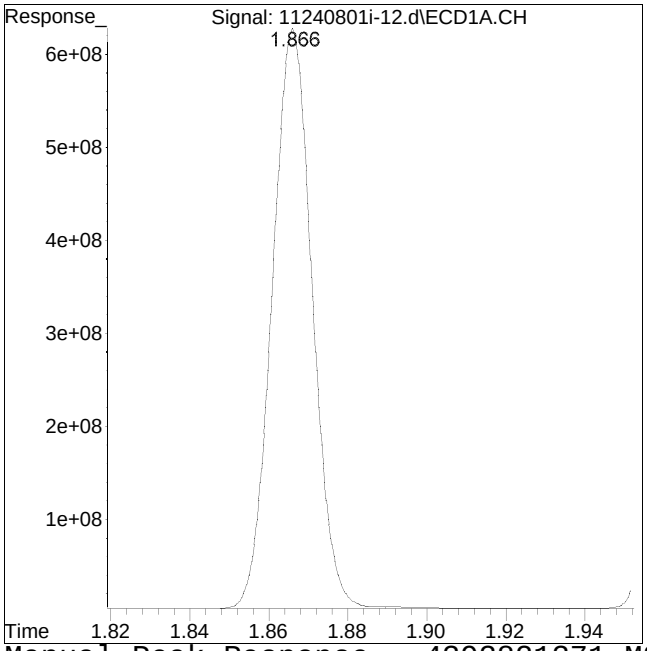
Original Peak Response = 3472736206 Manual Peak Response = 3436284732 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-12.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:25 Instrument : Pest 11
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/2/2024 9:58 am

Compound #3: Hexachlorobenzene





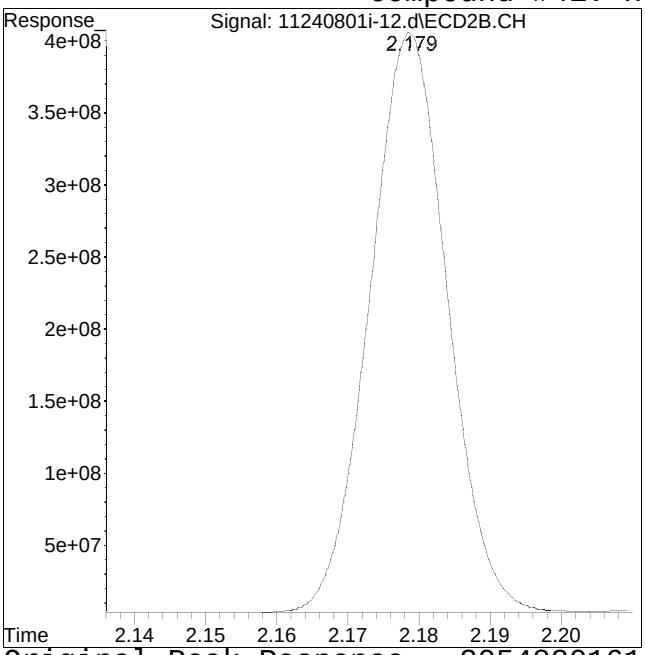
Original Peak Response = 4423865961 Manual Peak Response = 4393821371 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

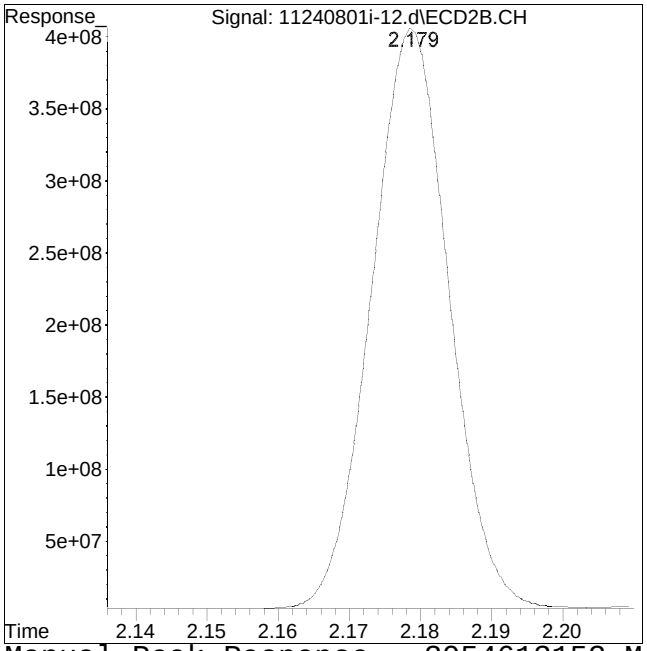
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #41: Hexachlorobenzene #2





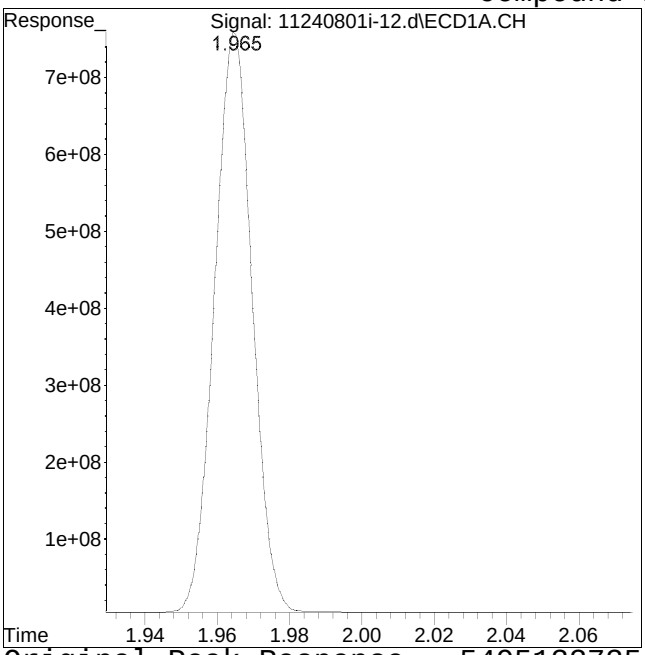
Original Peak Response = 3054820161 Manual Peak Response = 3054613153 M4
M4 = Poor automated baseline construction.

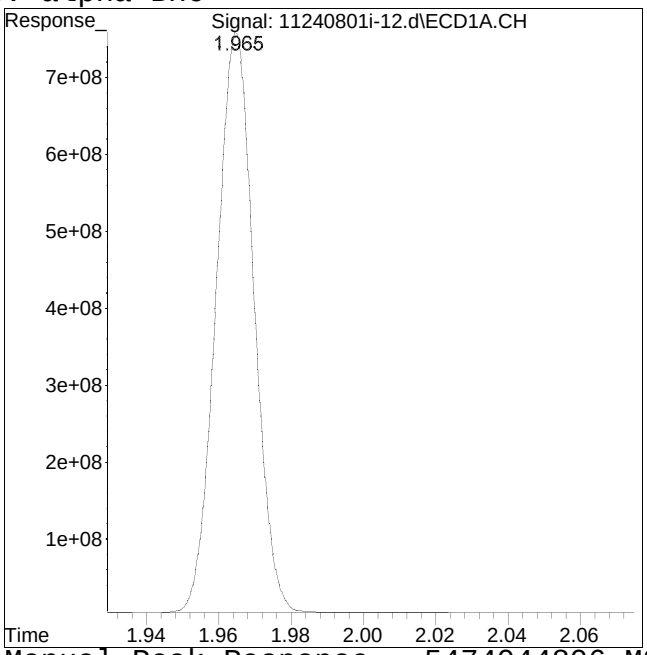
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #4: alpha-BHC



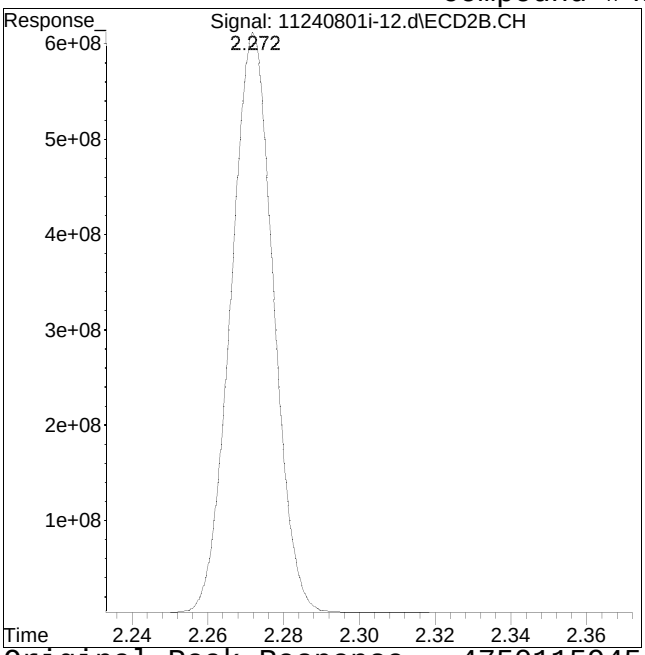


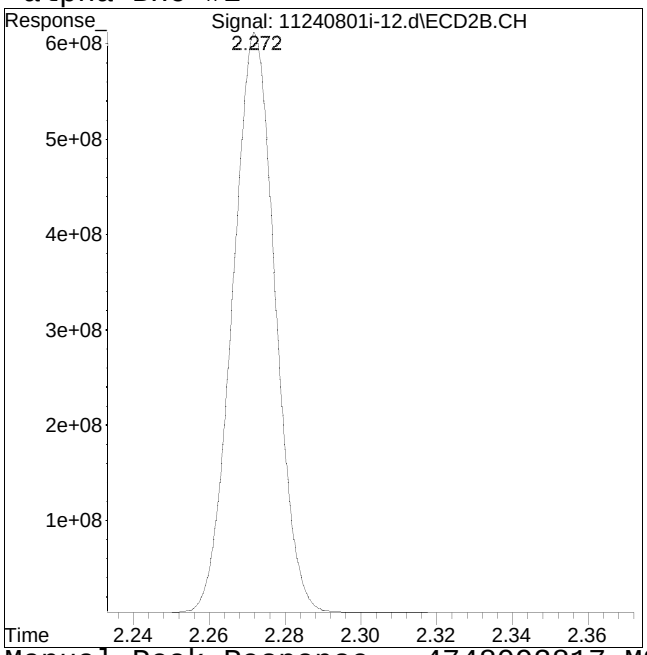
Original Peak Response = 5495133735 Manual Peak Response = 5474044806 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #42: alpha-BHC #2





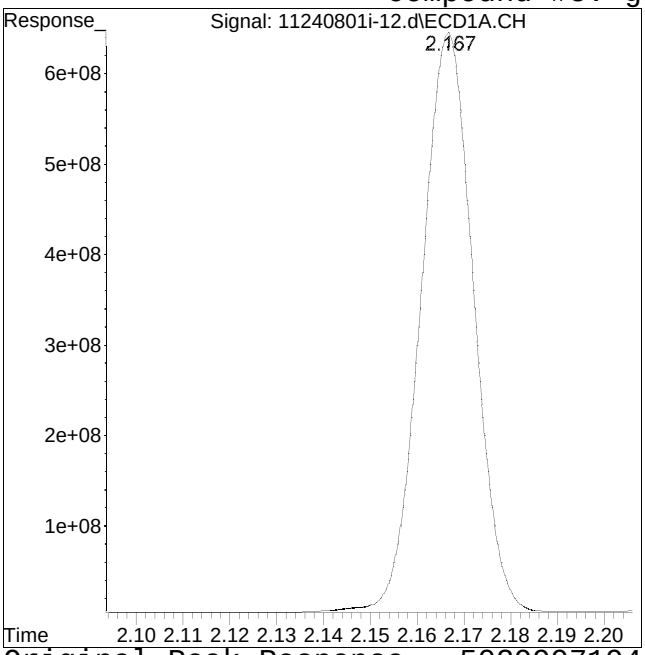
Original Peak Response = 4750115945 Manual Peak Response = 4748093817 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

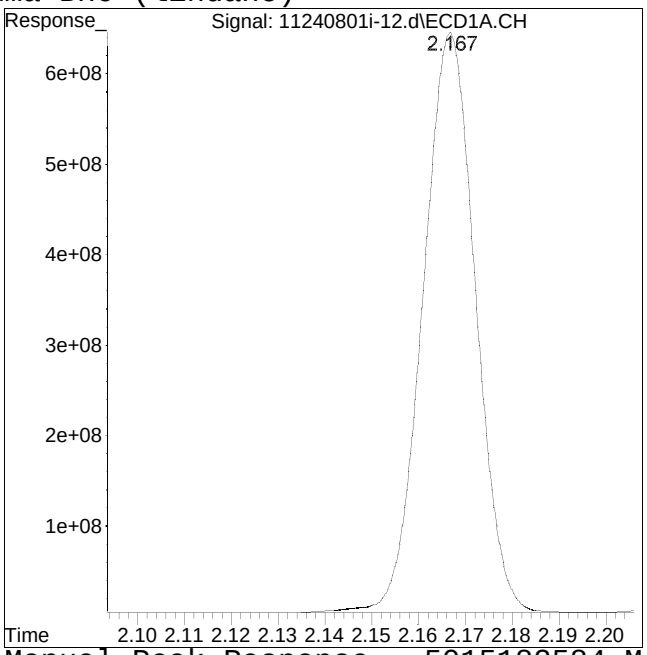
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #5: gamma-BHC (lindane)



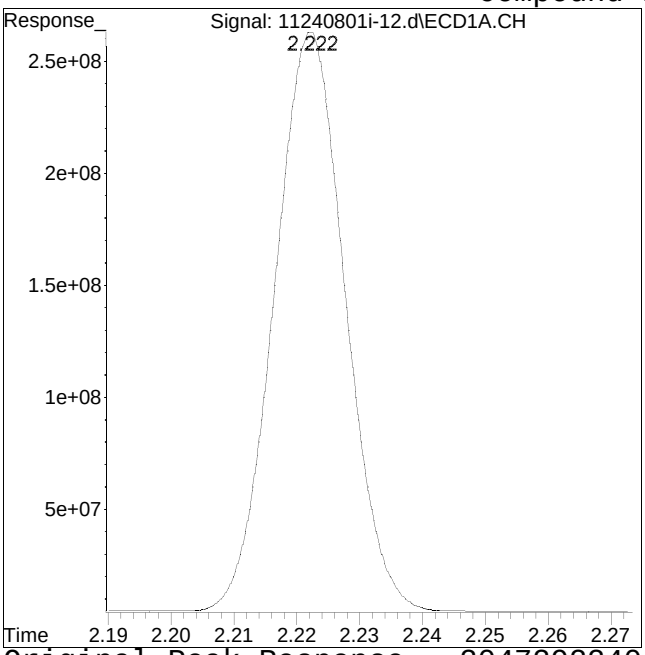


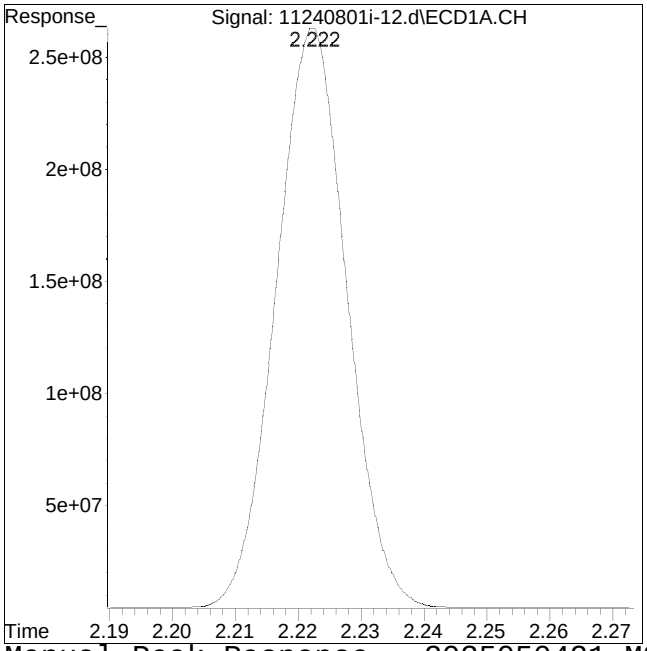
Original Peak Response = 5029997194 Manual Peak Response = 5015182584 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #6: beta-BHC



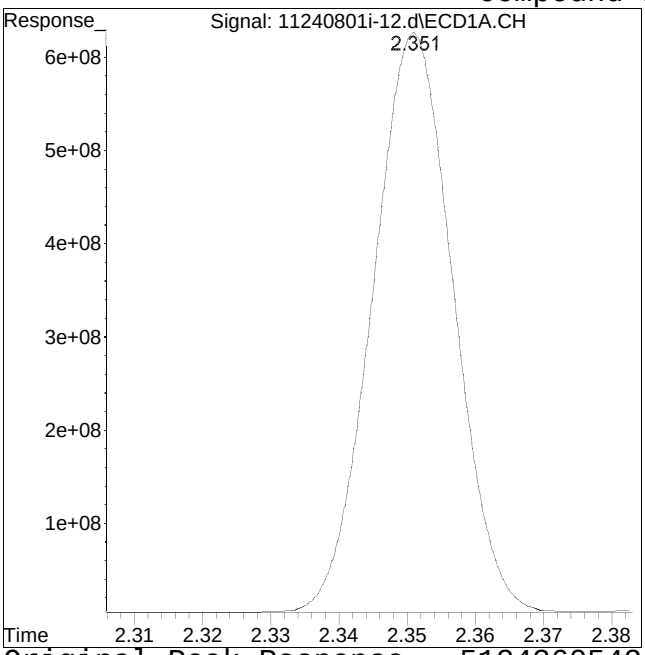


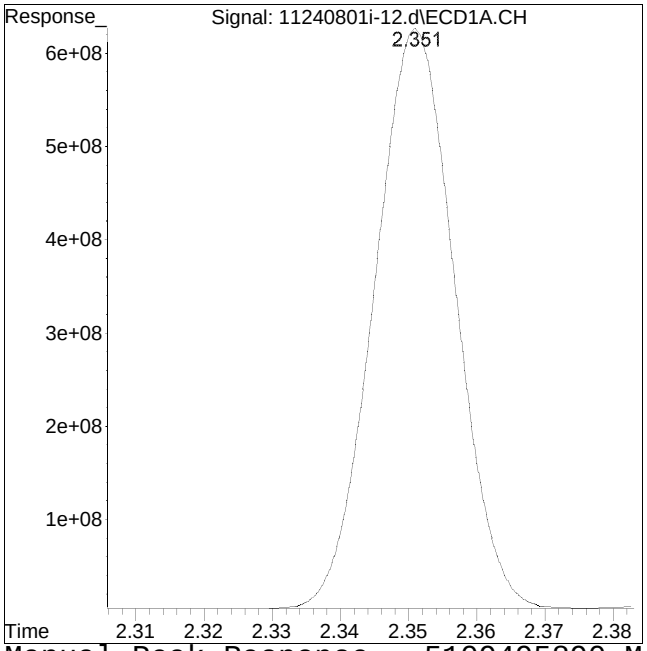
Original Peak Response = 2047292240 Manual Peak Response = 2035050421 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #7: delta-BHC



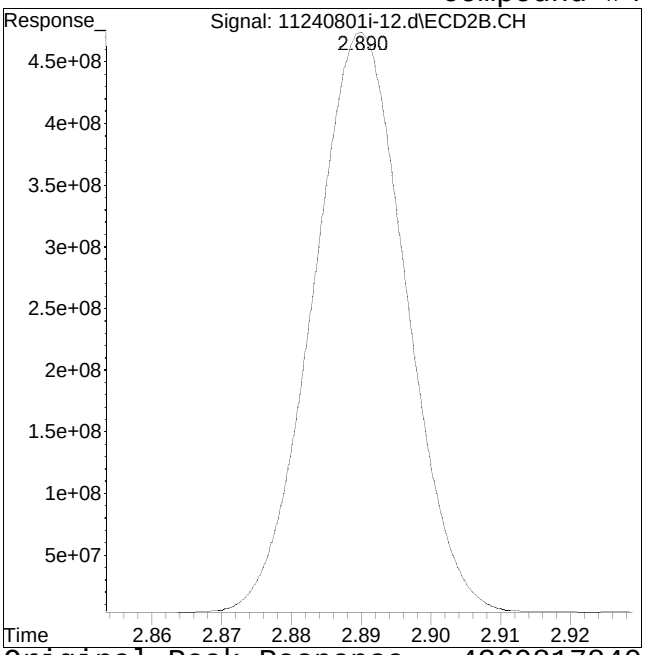


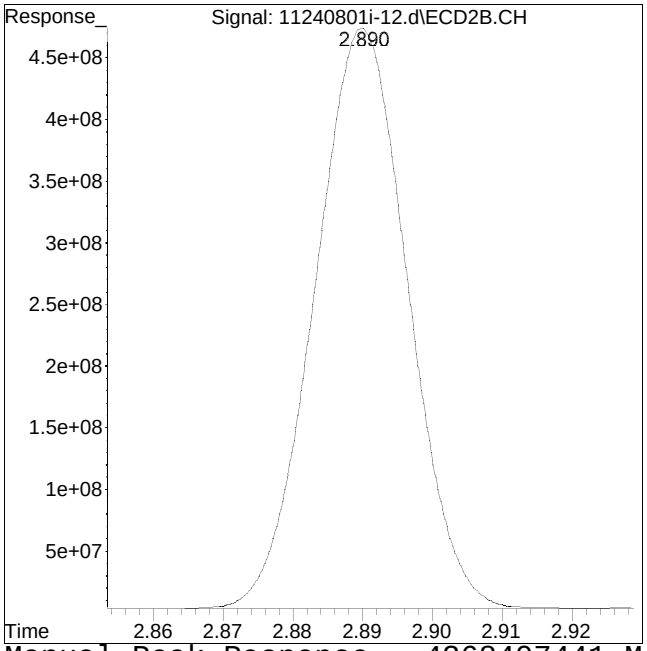
Original Peak Response = 5124360542 Manual Peak Response = 5109495890 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #45: delta-BHC #2





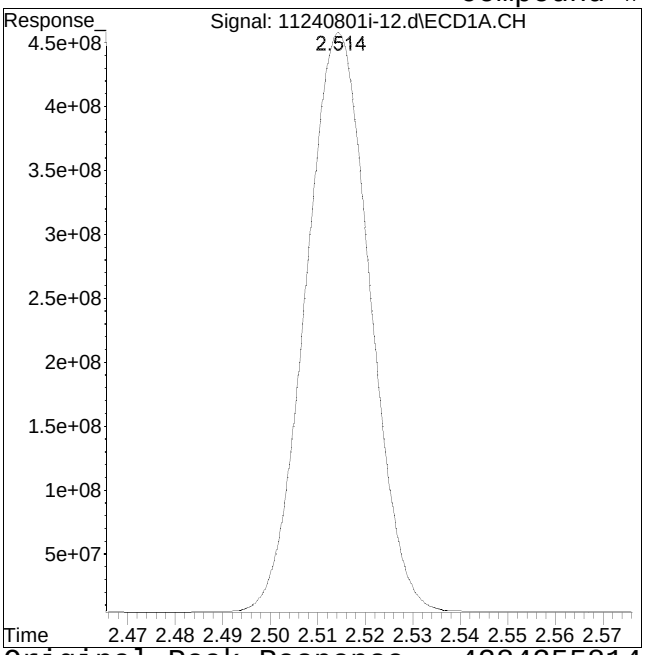
Original Peak Response = 4369817840 Manual Peak Response = 4368407441 M4
M4 = Poor automated baseline construction.

Manual Integration Report

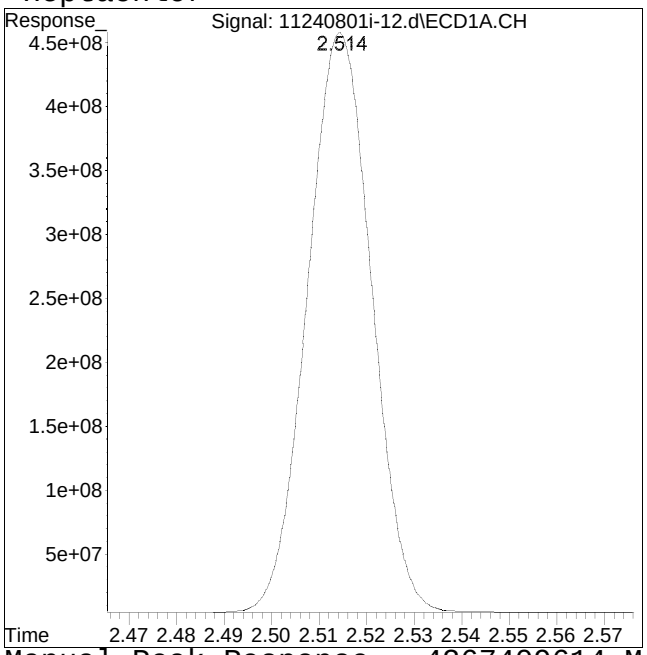
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #8: Heptachlor



Original Peak Response = 4284355814



Manual Peak Response = 4267409614 M4

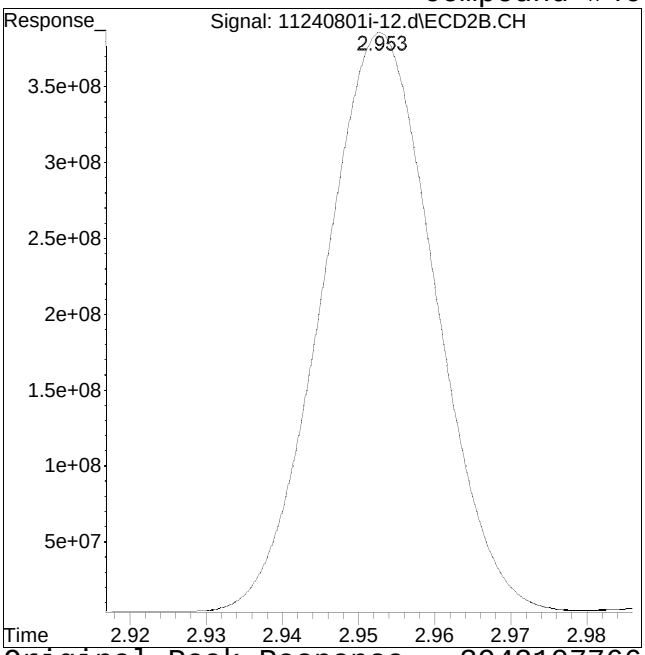
M4 = Poor automated baseline construction.

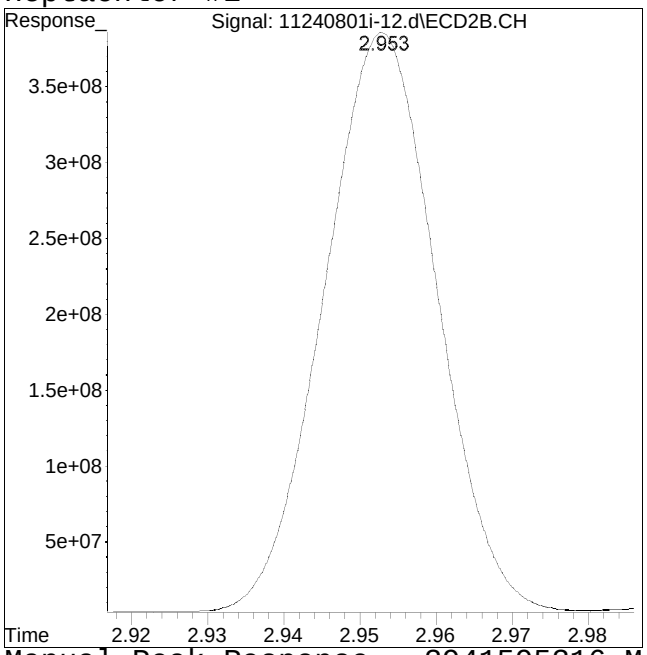
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #46: Heptachlor #2





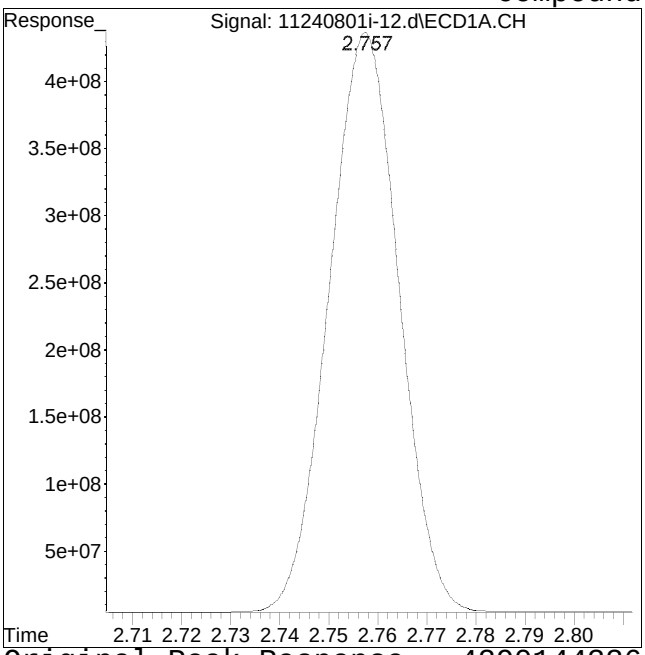
Original Peak Response = 3942107766 Manual Peak Response = 3941595316 M4
M4 = Poor automated baseline construction.

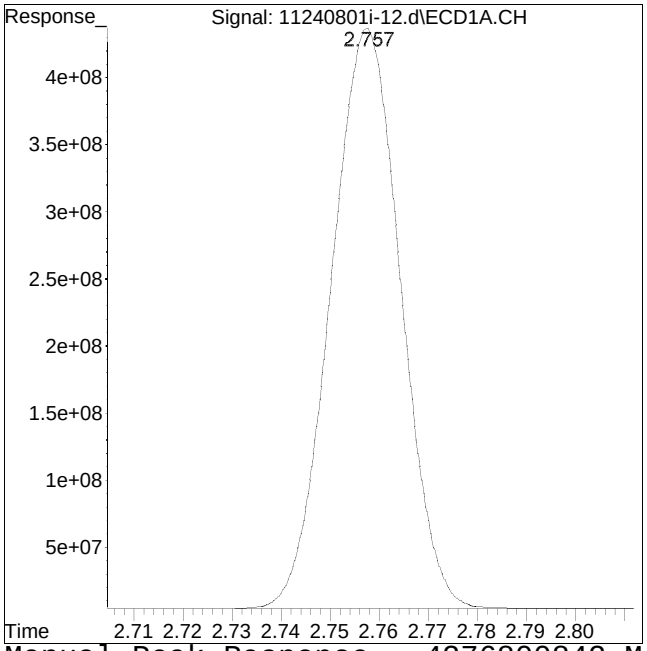
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #9: Aldrin



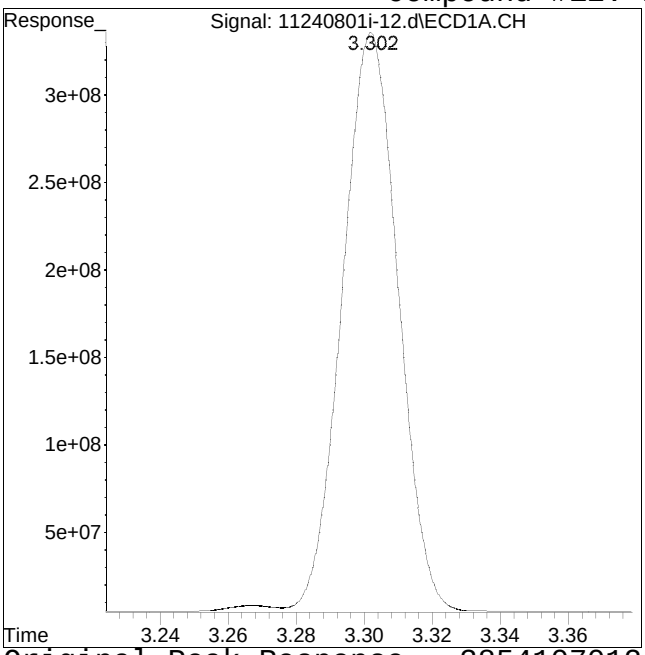


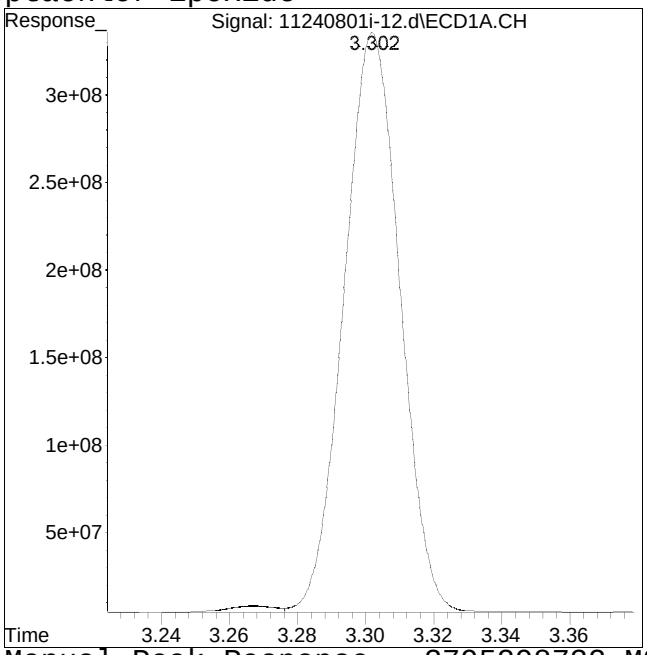
Original Peak Response = 4290144336 Manual Peak Response = 4276800842 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #12: Heptachlor Epoxide



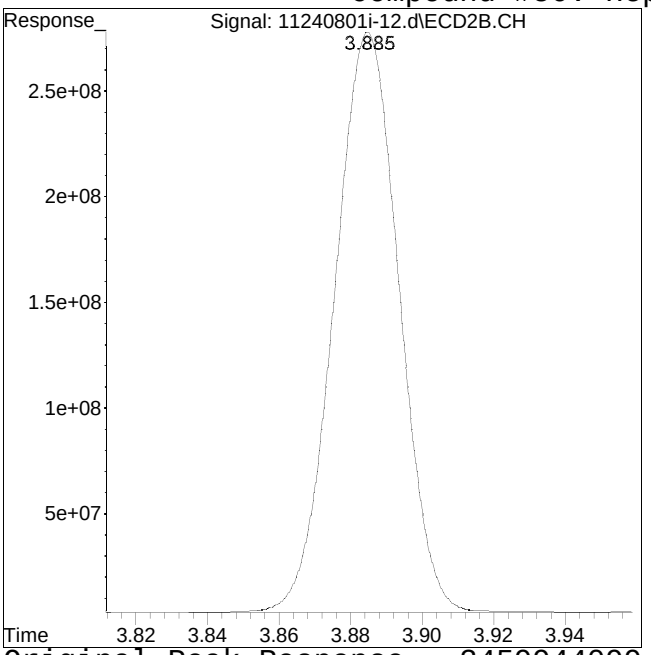


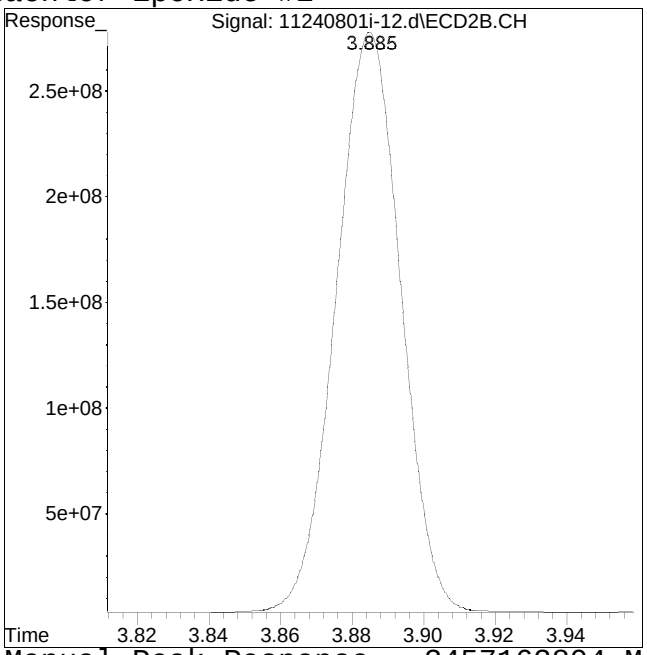
Original Peak Response = 3854107012 Manual Peak Response = 3795298732 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #50: Heptachlor Epoxide #2





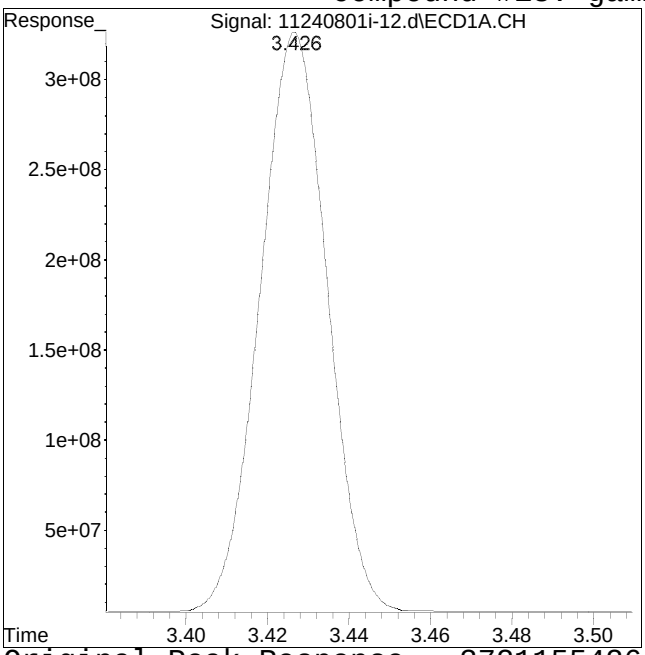
Original Peak Response = 3459944099 Manual Peak Response = 3457163804 M4
M4 = Poor automated baseline construction.

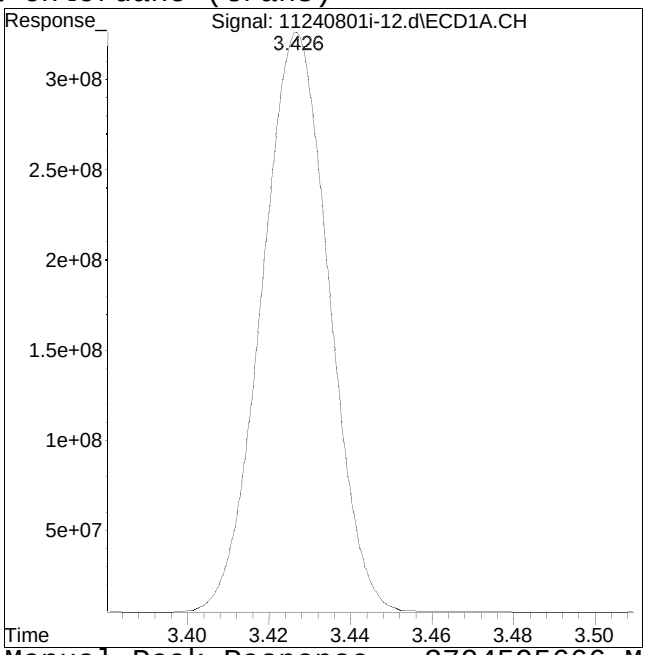
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #13: gamma-Chlordane (trans)



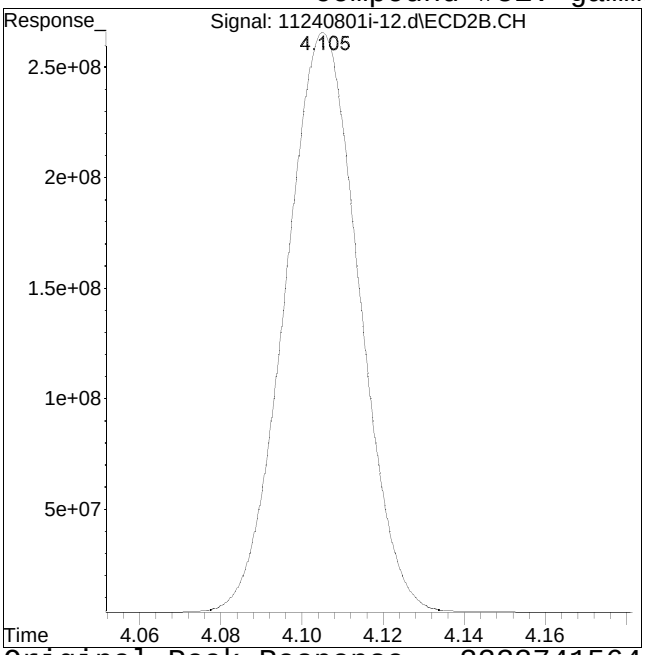


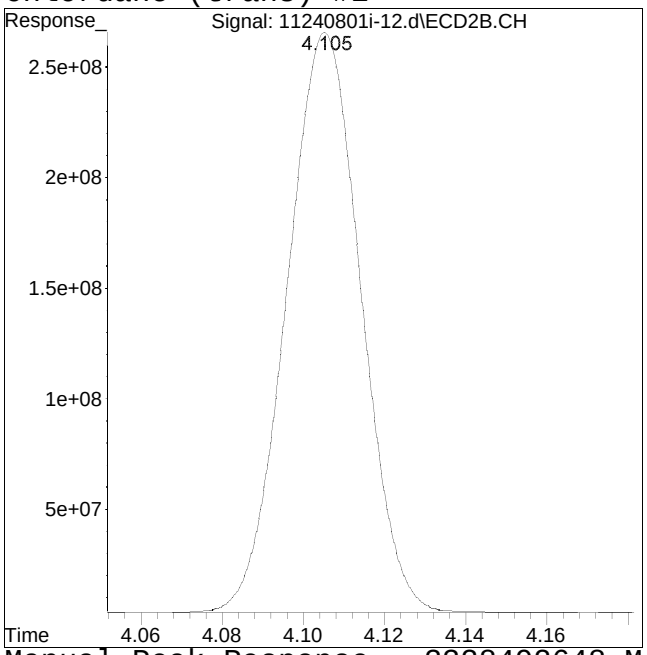
Original Peak Response = 3721155426 Manual Peak Response = 3704595666 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #51: gamma-Chlordane (trans) #2



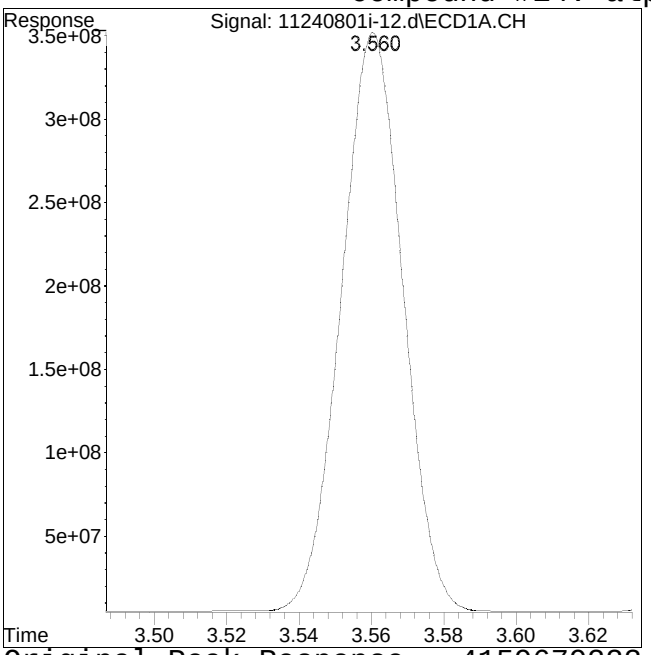


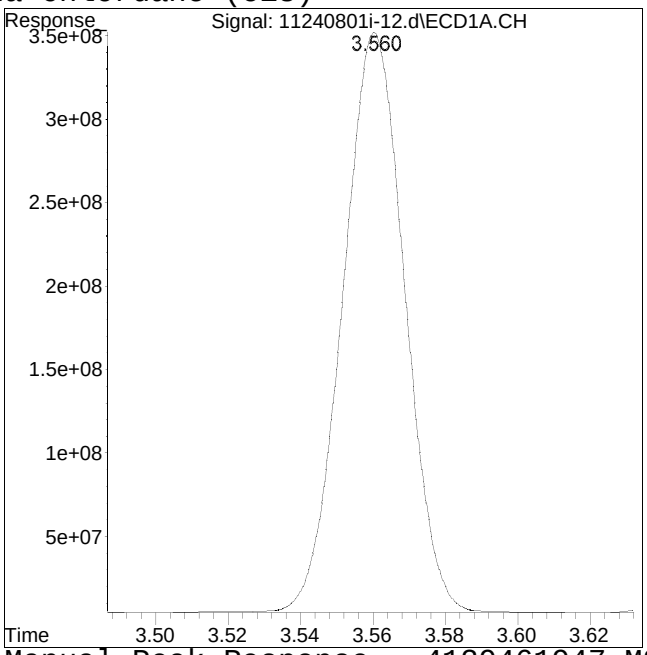
Original Peak Response = 3333741564 Manual Peak Response = 3328492648 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #14: alpha-Chlordane (cis)





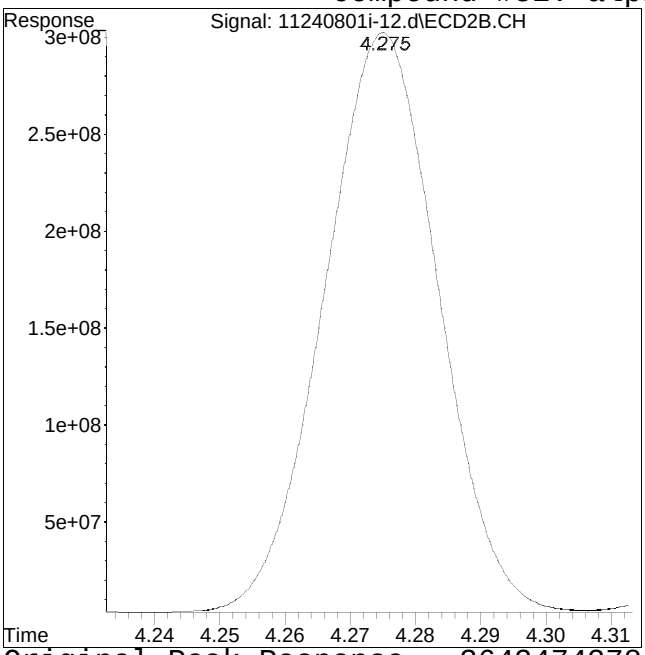
Original Peak Response = 4159679223 Manual Peak Response = 4129461947 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

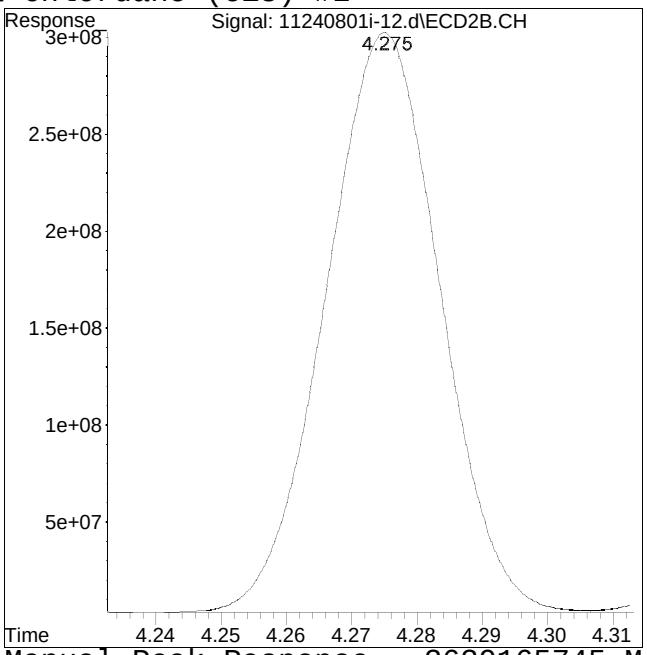
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #52: alpha-Chlordane (cis) #2





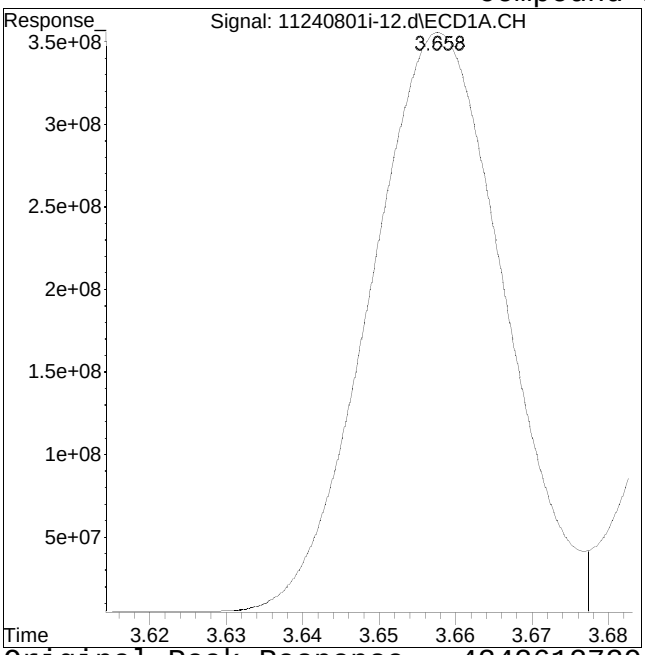
Original Peak Response = 3642474278 Manual Peak Response = 3639165745 M4
M4 = Poor automated baseline construction.

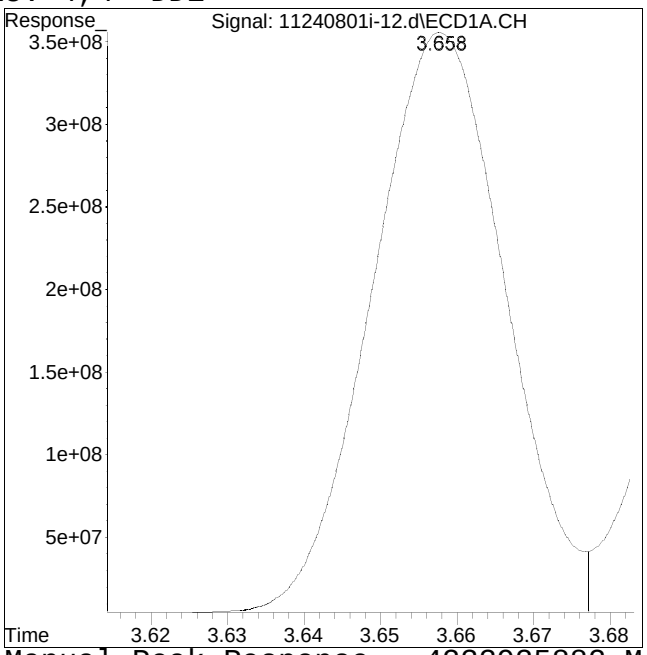
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #15: 4,4'-DDE





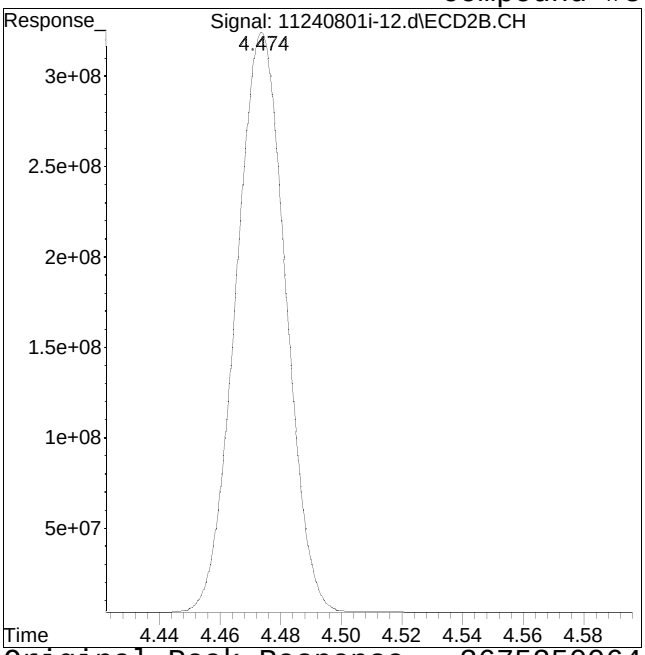
Original Peak Response = 4242612729 Manual Peak Response = 4233935882 M4
M4 = Poor automated baseline construction.

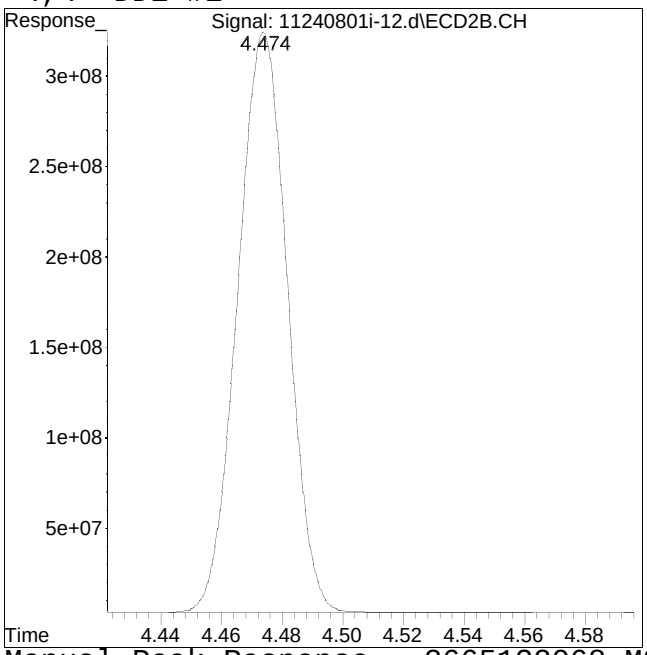
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #53: 4,4'-DDE #2



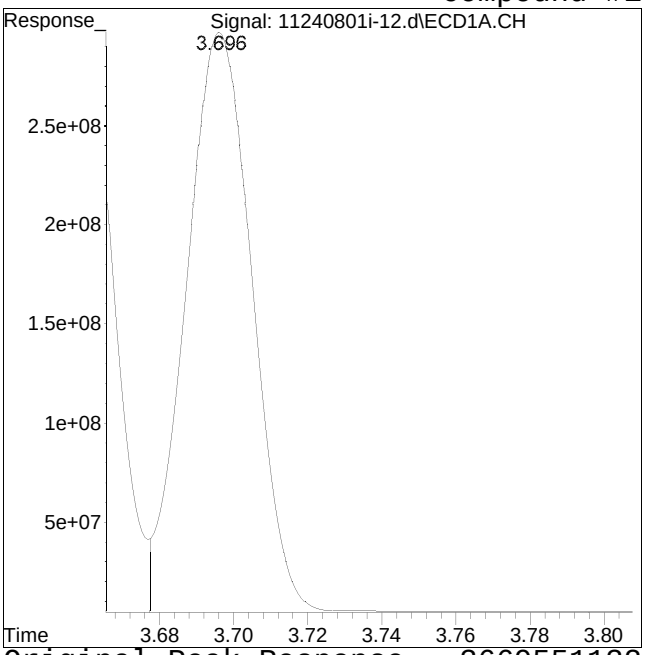


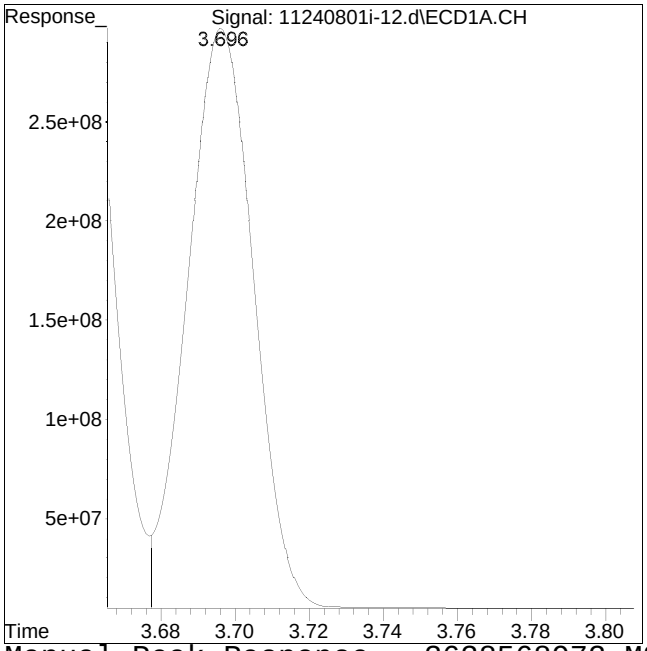
Original Peak Response = 3675250064 Manual Peak Response = 3665132068 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #16: Endosulfan I





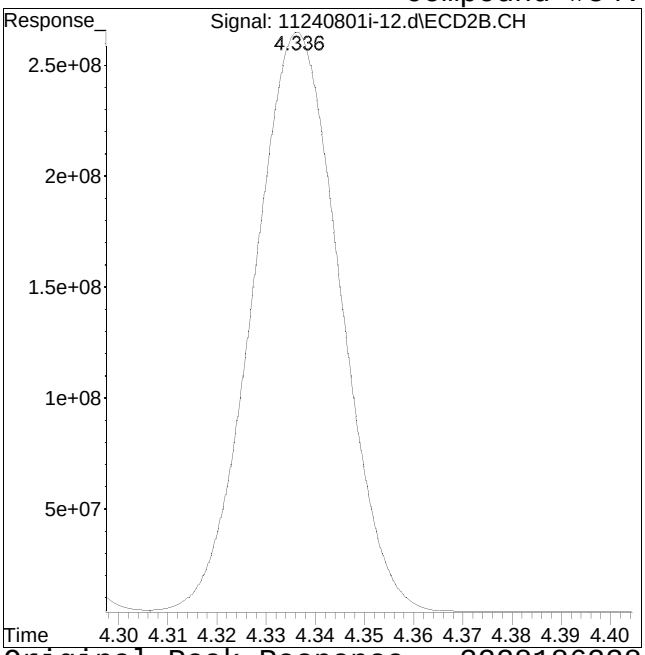
Original Peak Response = 3669551132 Manual Peak Response = 3638568973 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

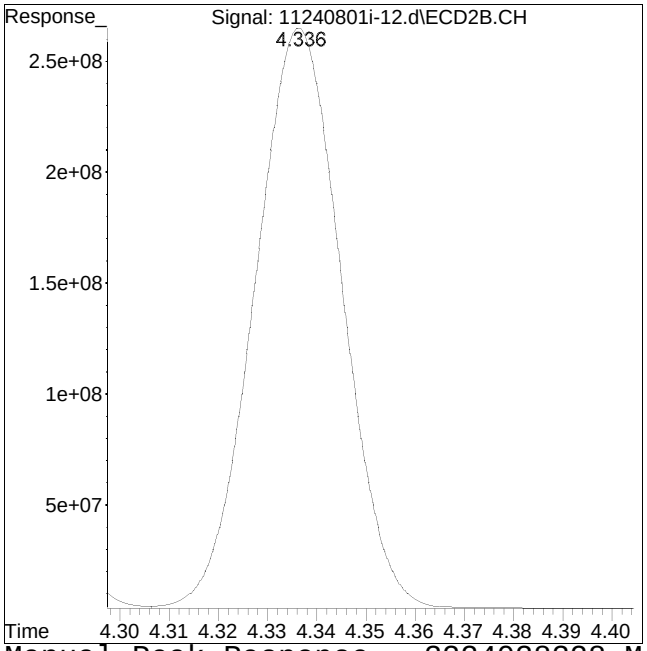
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #54: Endosulfan I #2





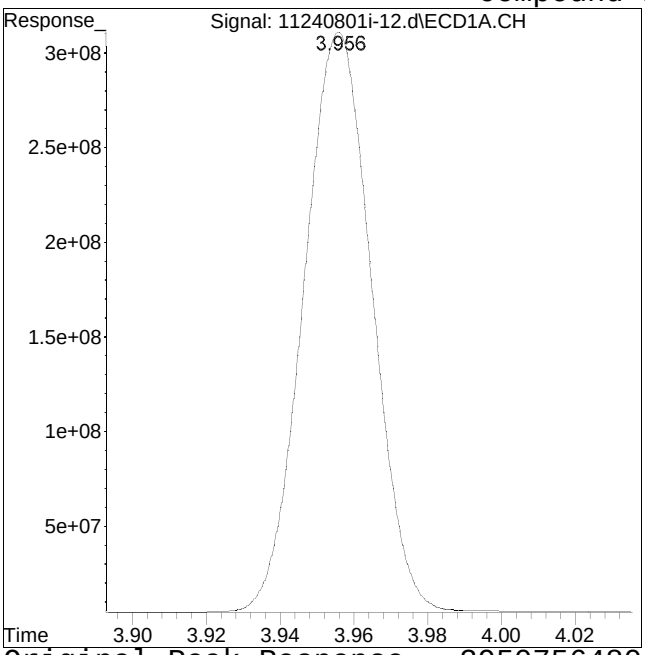
Original Peak Response = 3228186238 Manual Peak Response = 3224038328 M4
M4 = Poor automated baseline construction.

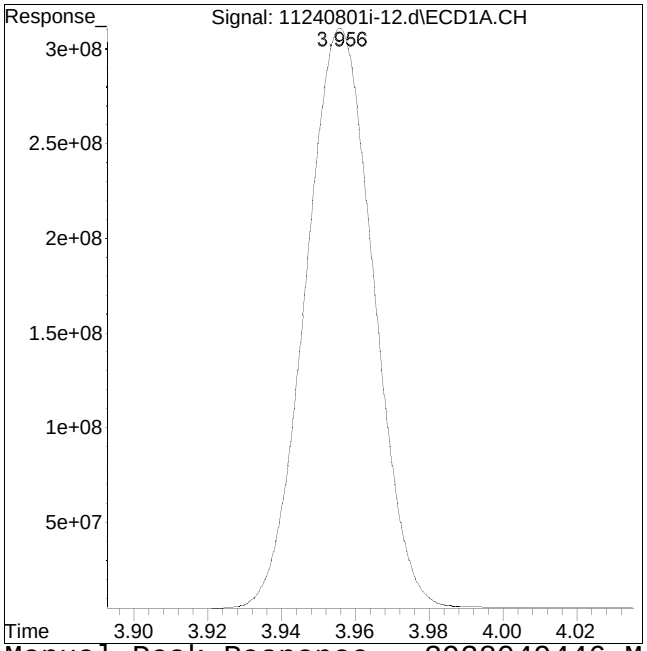
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #17: Dieldrin





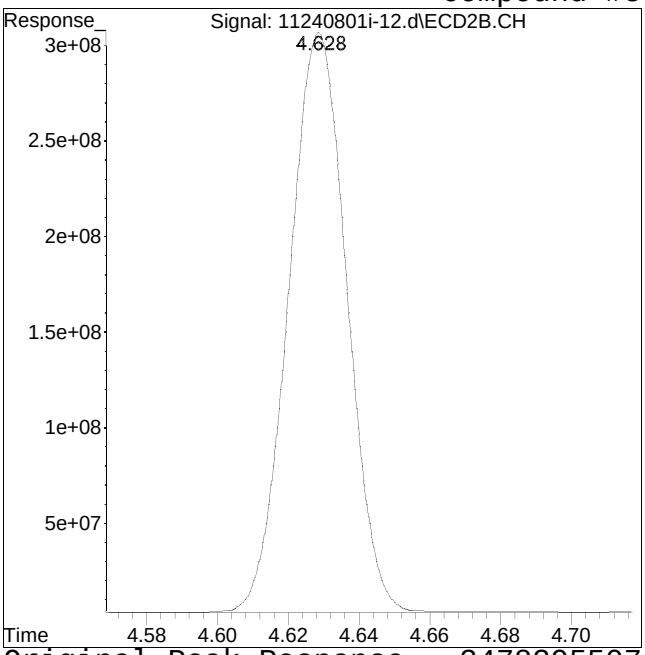
Original Peak Response = 3950756480 Manual Peak Response = 3938049446 M4
M4 = Poor automated baseline construction.

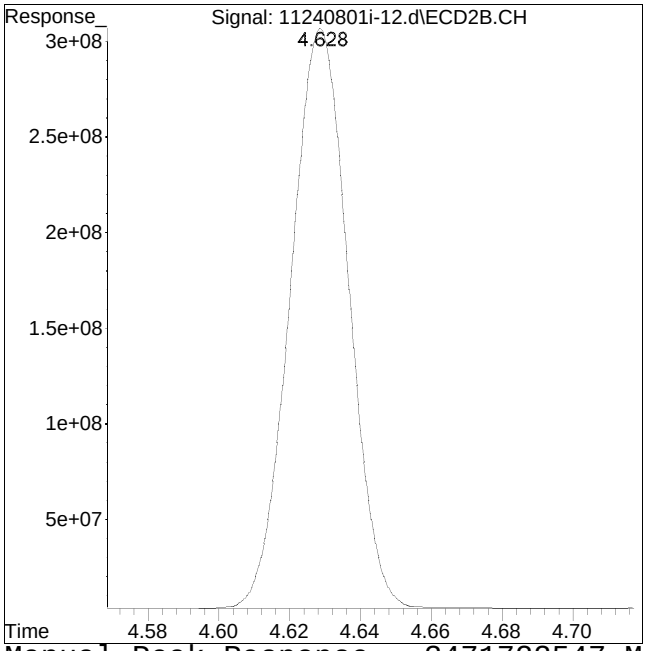
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #55: Dieldrin #2



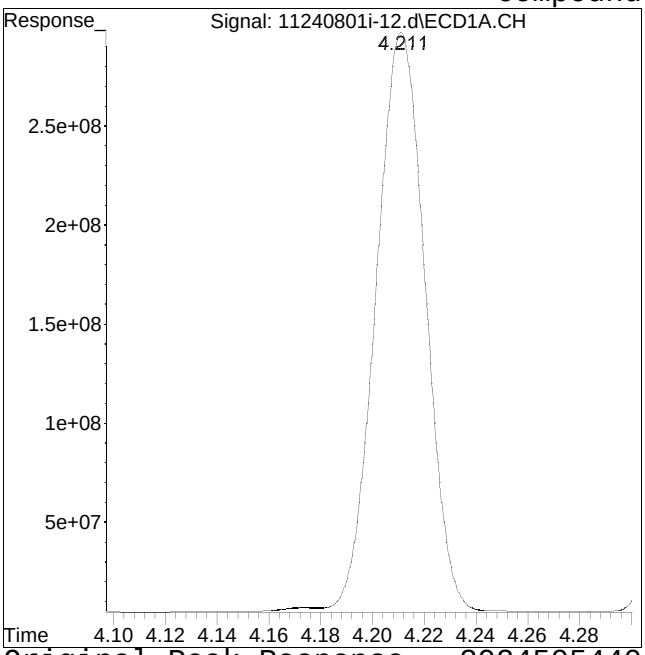


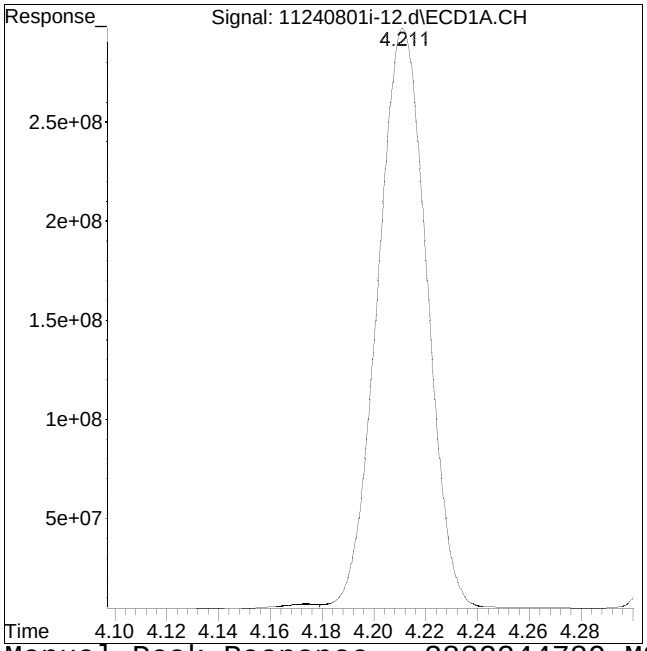
Original Peak Response = 3478395507 Manual Peak Response = 3471722547 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #18: Endrin





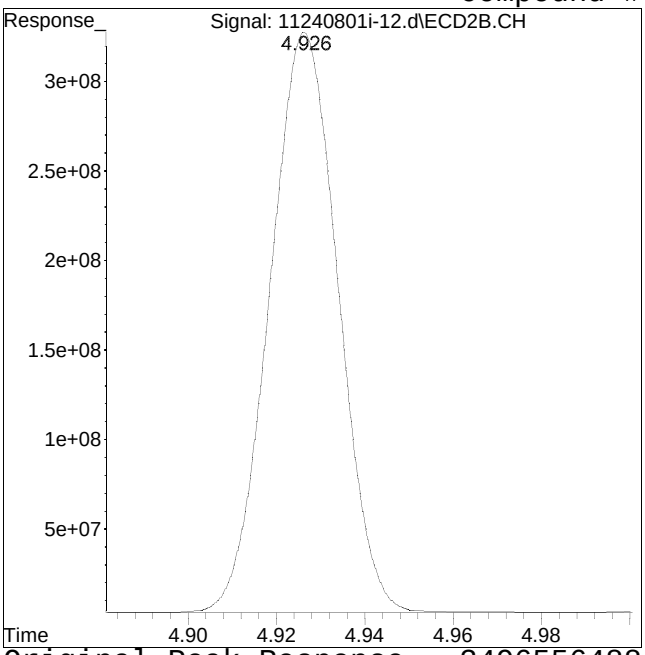
Original Peak Response = 3924505440 Manual Peak Response = 3882244789 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

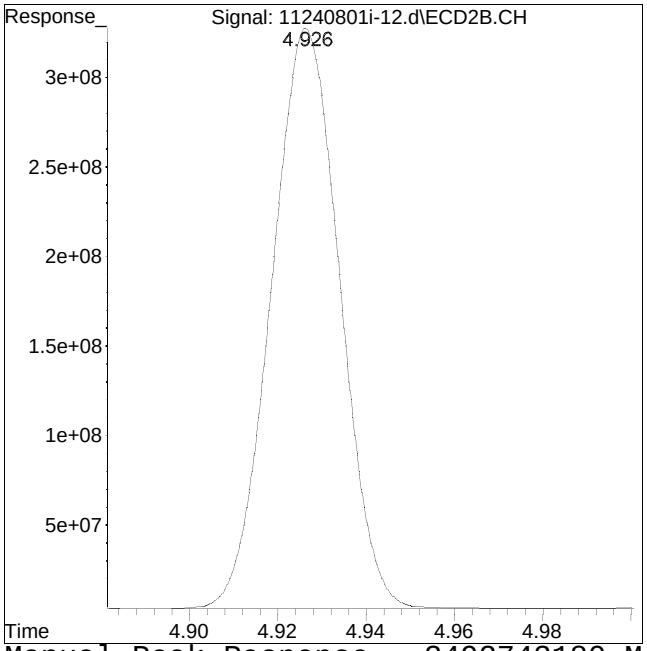
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #56: Endrin #2





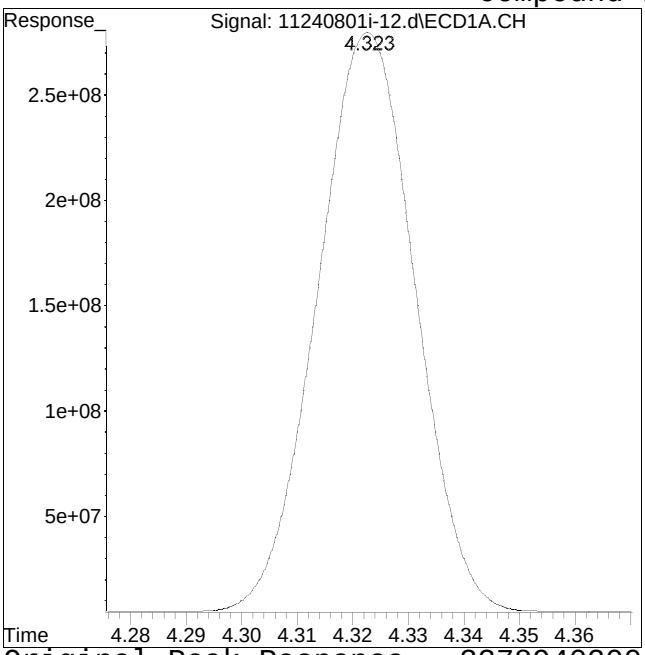
Original Peak Response = 3496556488 Manual Peak Response = 3492743180 M4
M4 = Poor automated baseline construction.

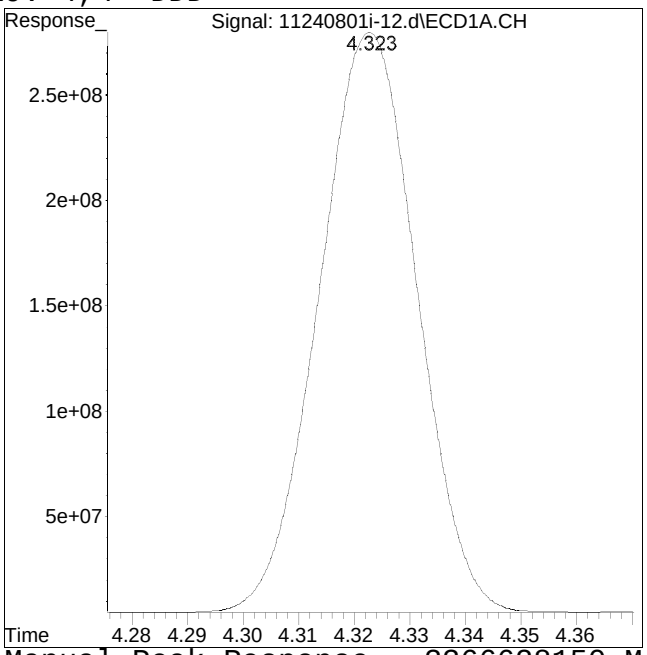
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #19: 4,4'-DDD





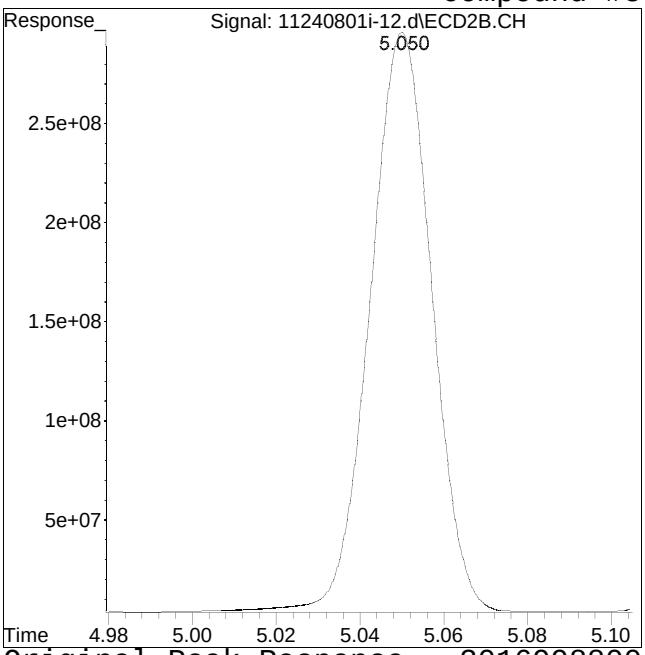
Original Peak Response = 3378940200 Manual Peak Response = 3366628150 M4
M4 = Poor automated baseline construction.

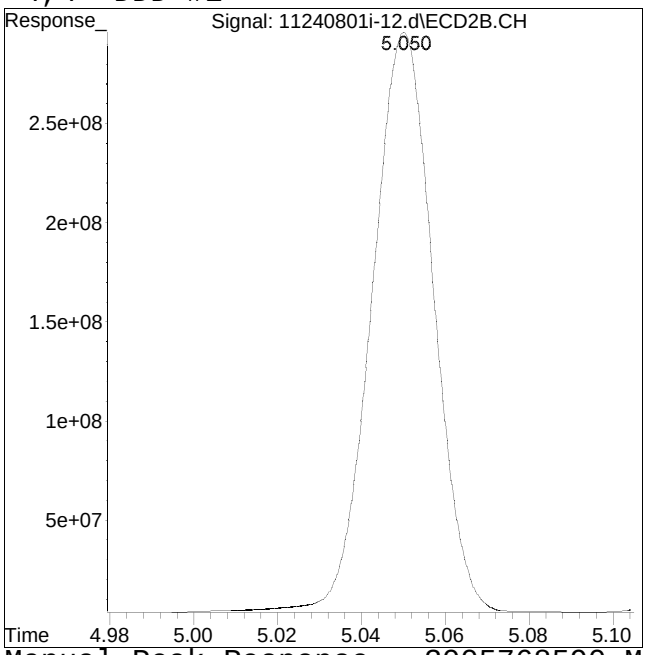
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #57: 4,4'-DDD #2



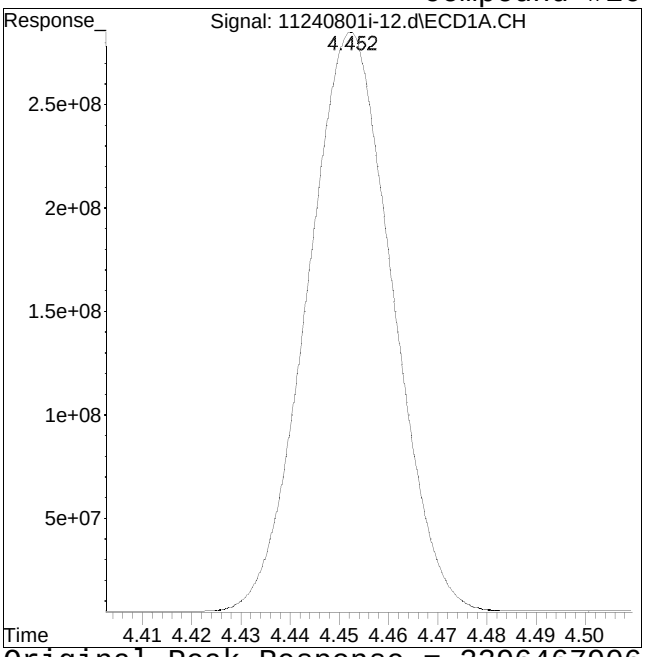


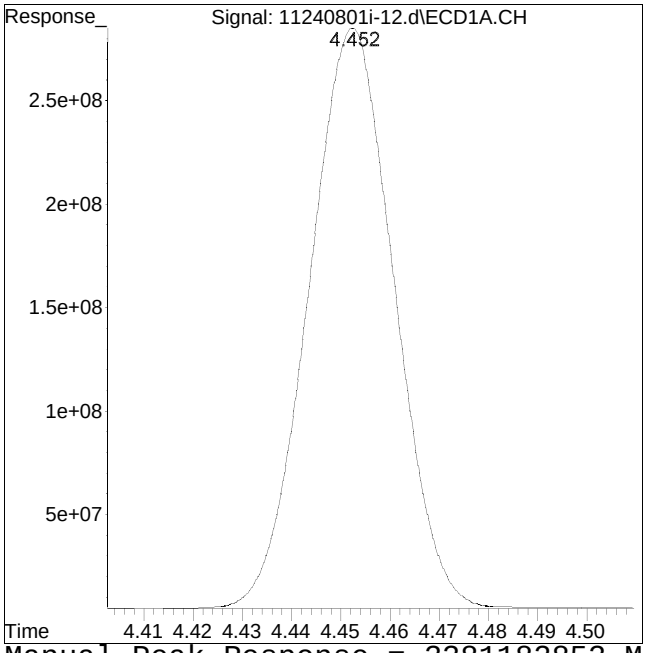
Original Peak Response = 3016998800 Manual Peak Response = 3005768590 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #20: Endosulfan II



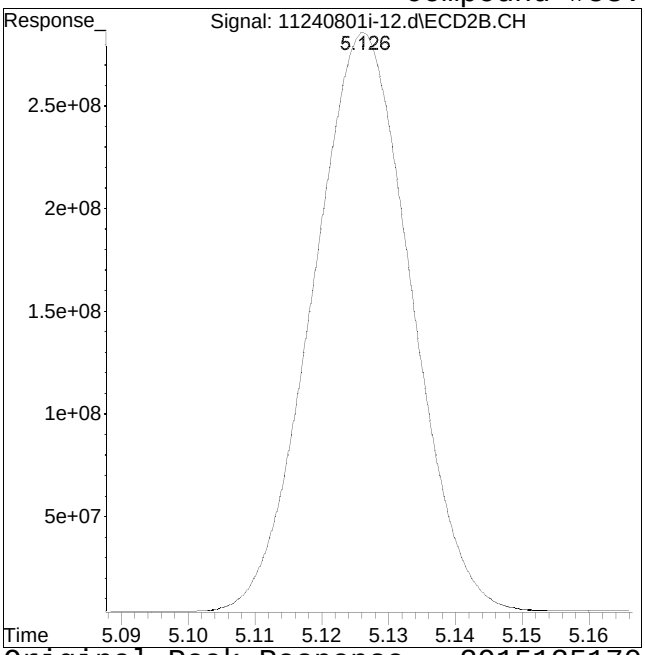


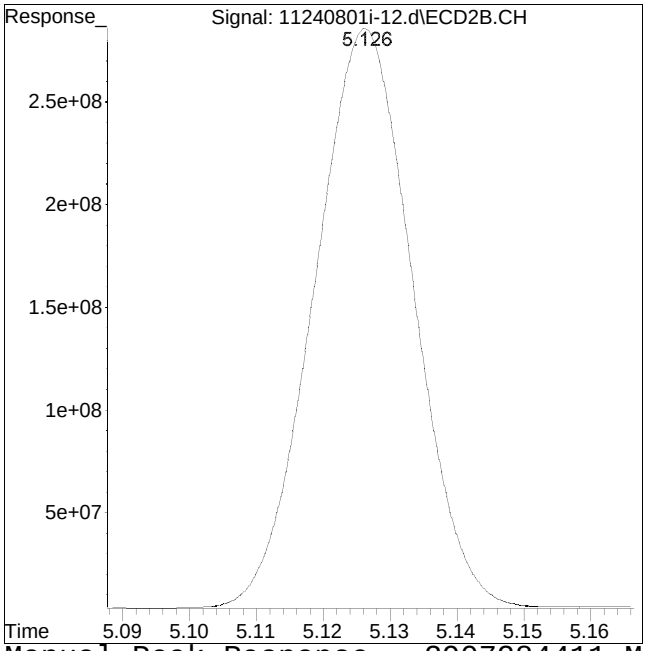
Original Peak Response = 3396467906 Manual Peak Response = 3381182853 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #58: Endosulfan II #2





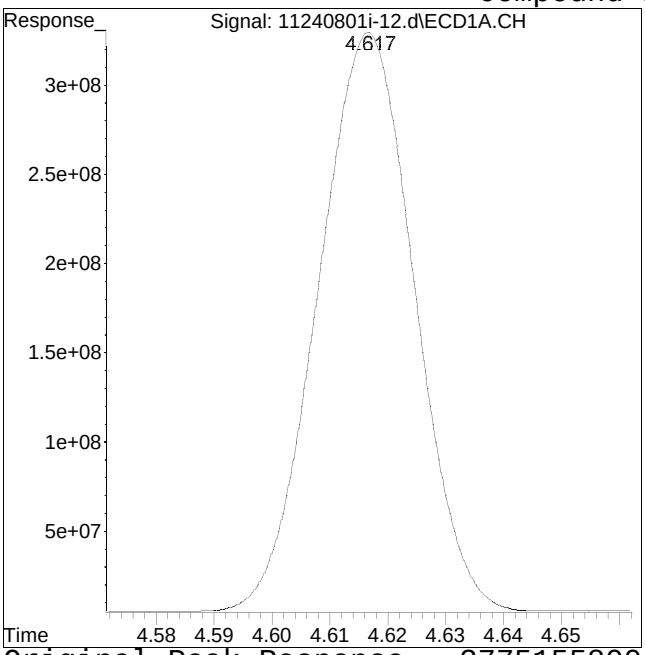
Original Peak Response = 2915125170 Manual Peak Response = 2907284411 M4
M4 = Poor automated baseline construction.

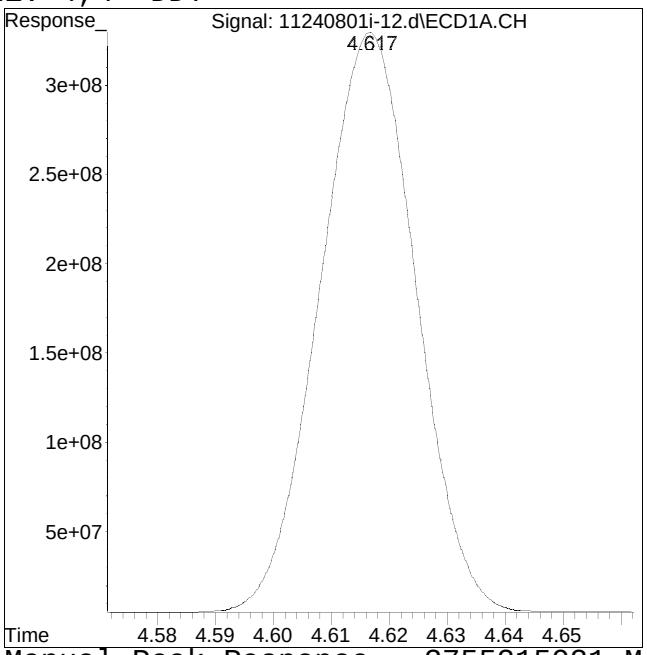
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #21: 4,4'-DDT



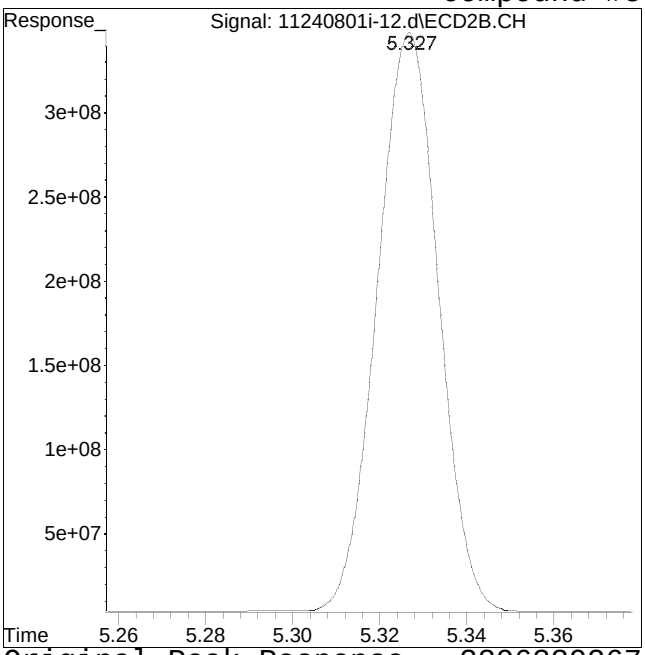


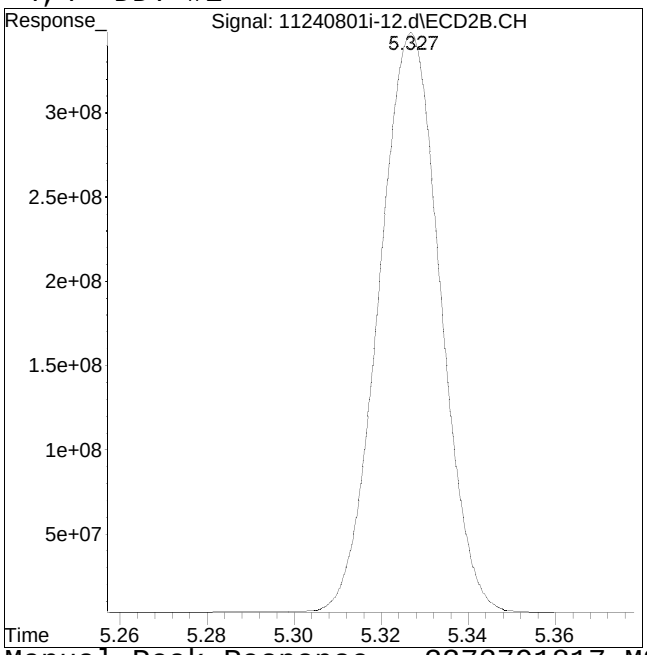
Original Peak Response = 3775155800 Manual Peak Response = 3755215921 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #59: 4,4'-DDT #2





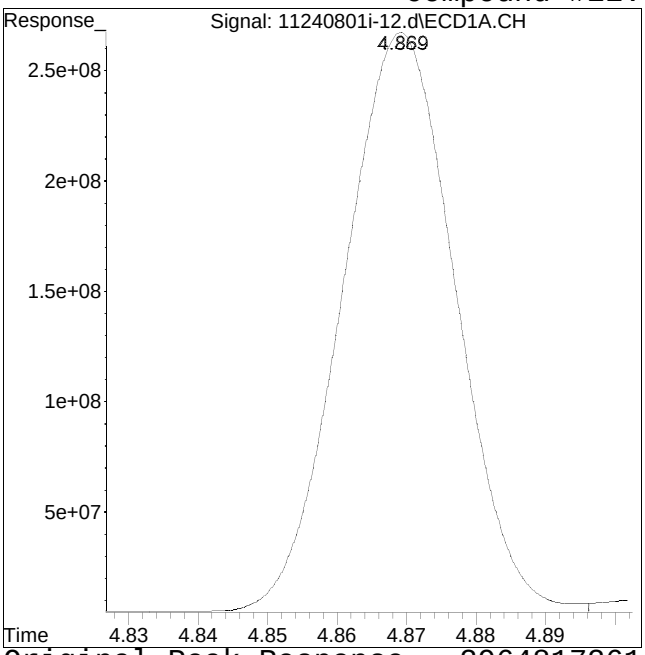
Original Peak Response = 3396339267 Manual Peak Response = 3373791817 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

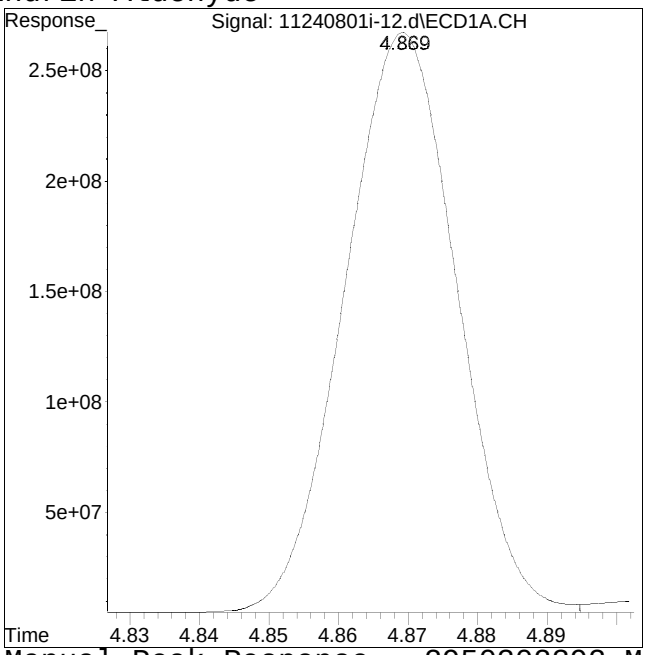
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #22: Endrin Aldehyde





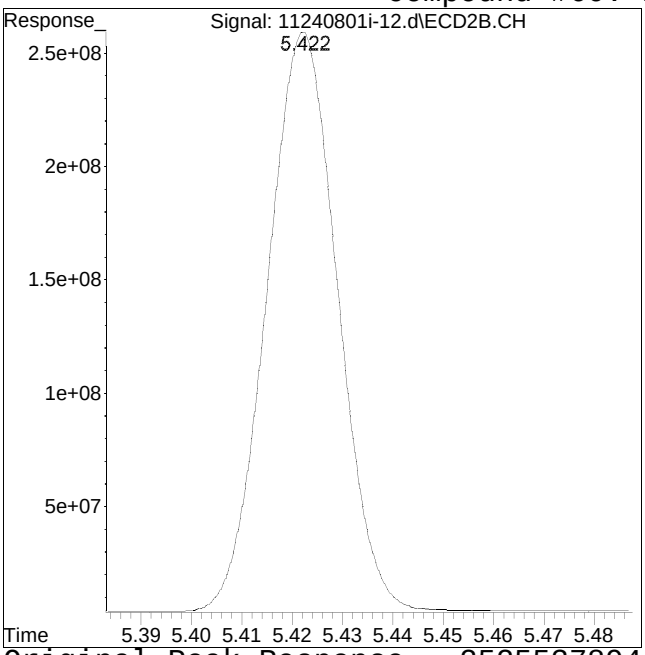
Original Peak Response = 2964817261 Manual Peak Response = 2950302392 M4
M4 = Poor automated baseline construction.

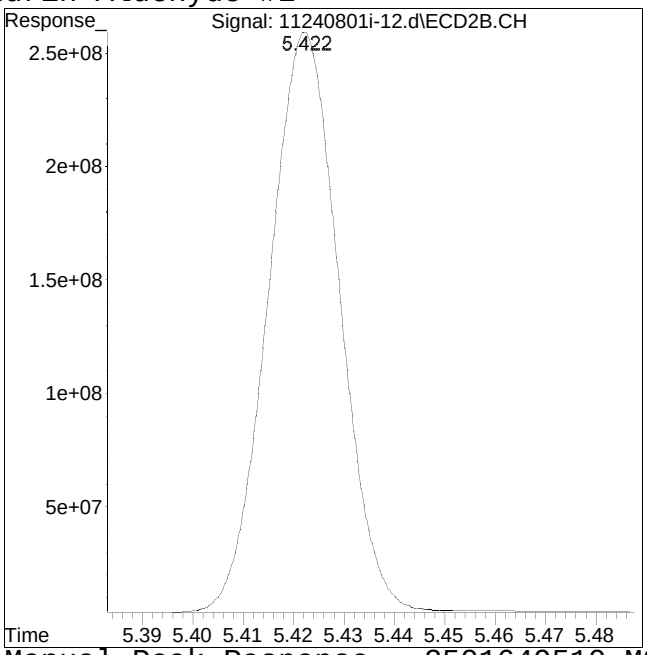
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #60: Endrin Aldehyde #2





Original Peak Response = 2525537894 Manual Peak Response = 2501649510 M3

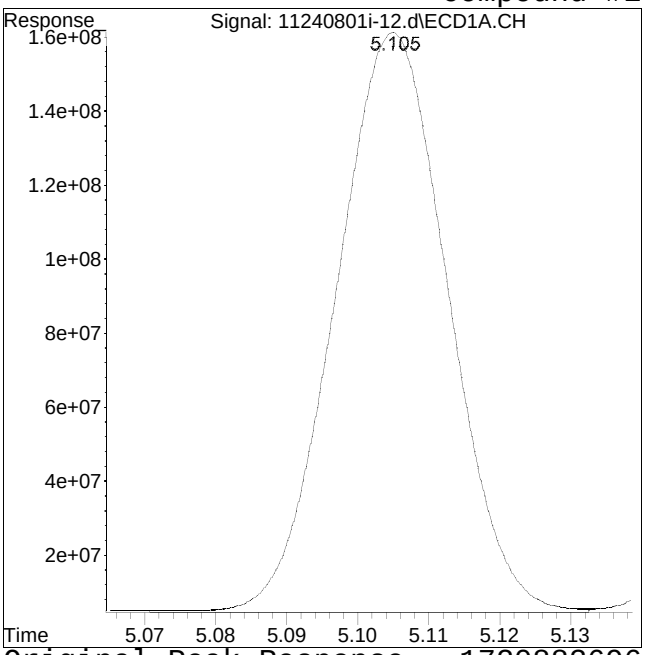
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

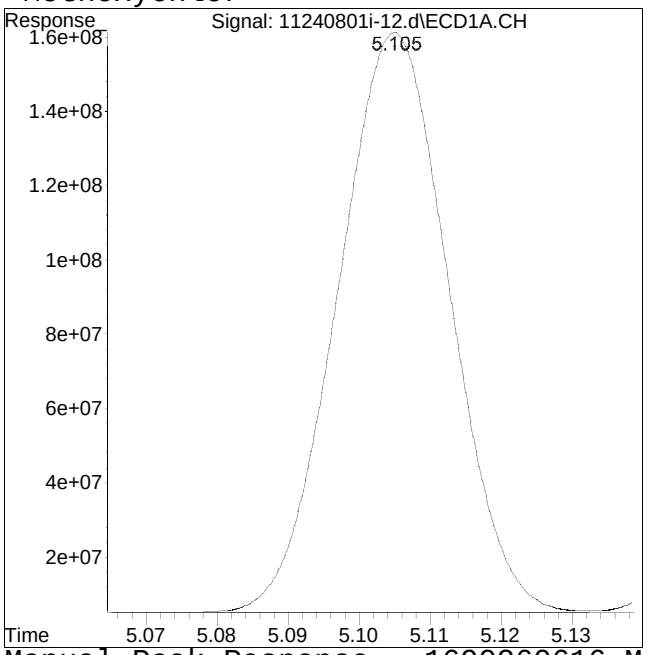
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #23: Methoxychlor



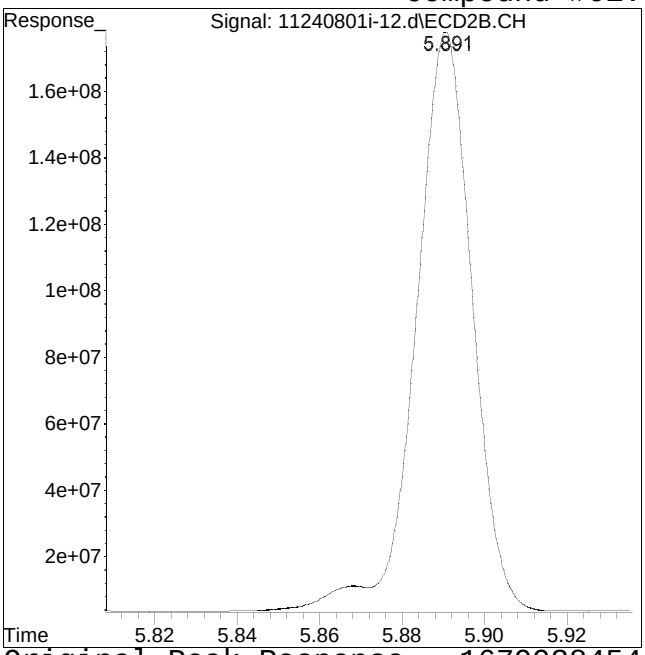


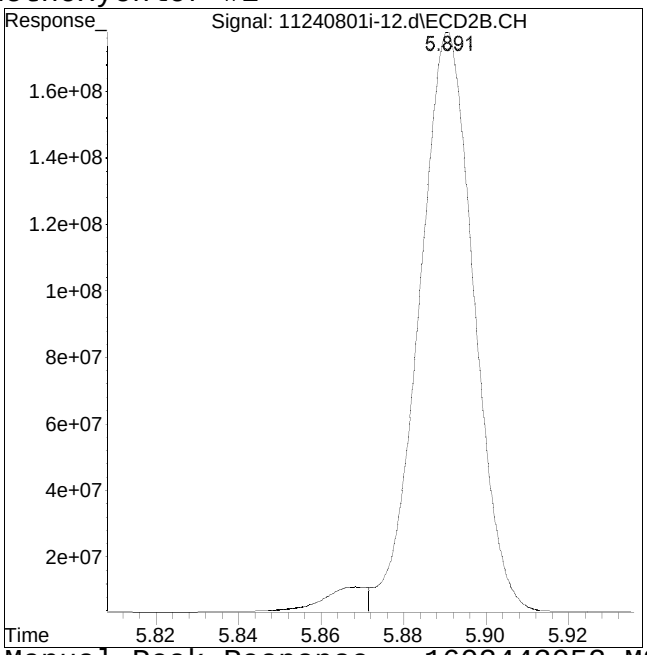
Original Peak Response = 1720883696 Manual Peak Response = 1699260616 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #61: Methoxychlor #2



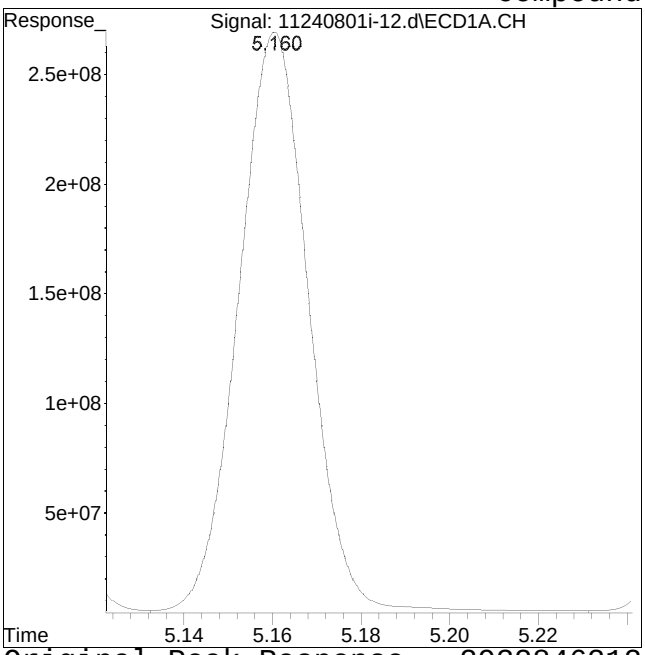


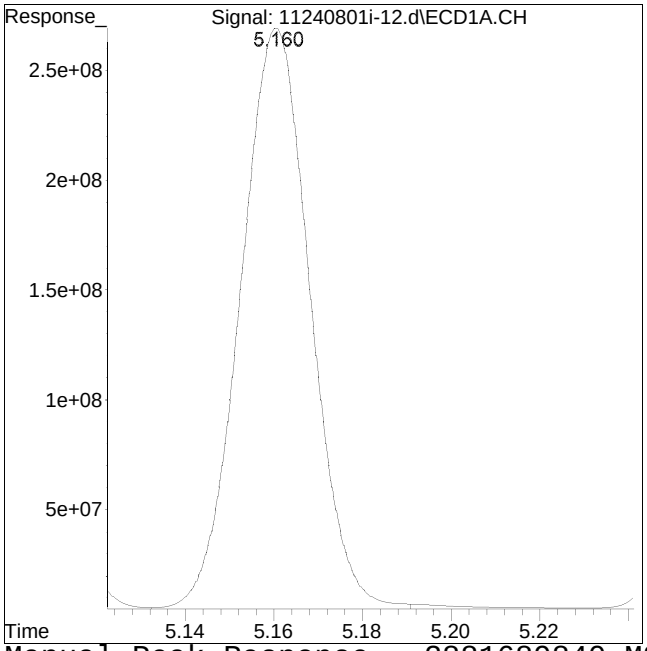
Original Peak Response = 1679938454 Manual Peak Response = 1603443052 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #24: Mirex





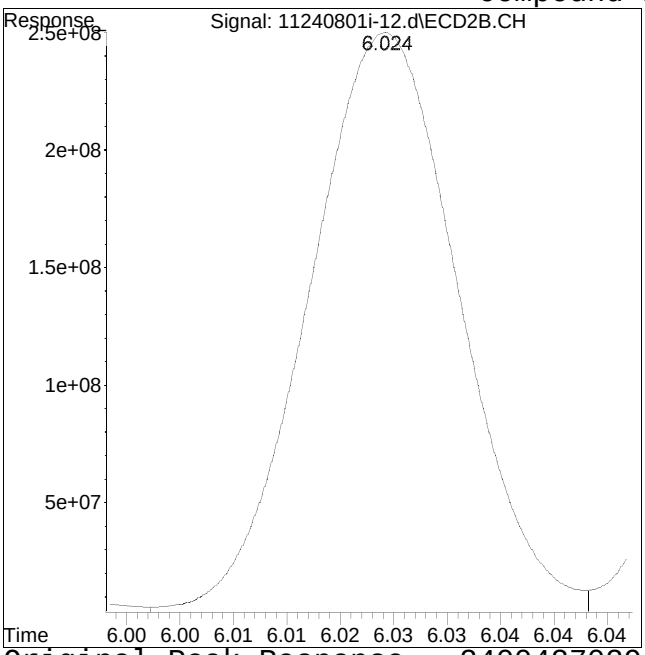
Original Peak Response = 2932846212 Manual Peak Response = 2881689840 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

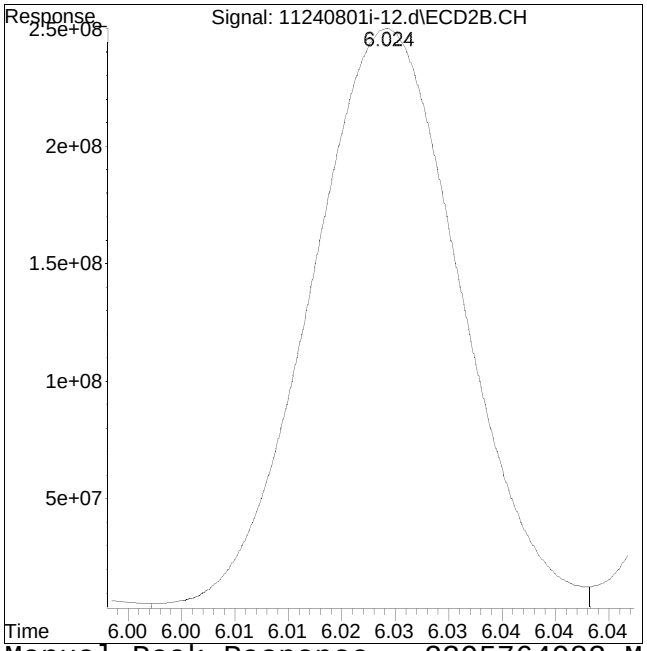
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #62: Mirex #2



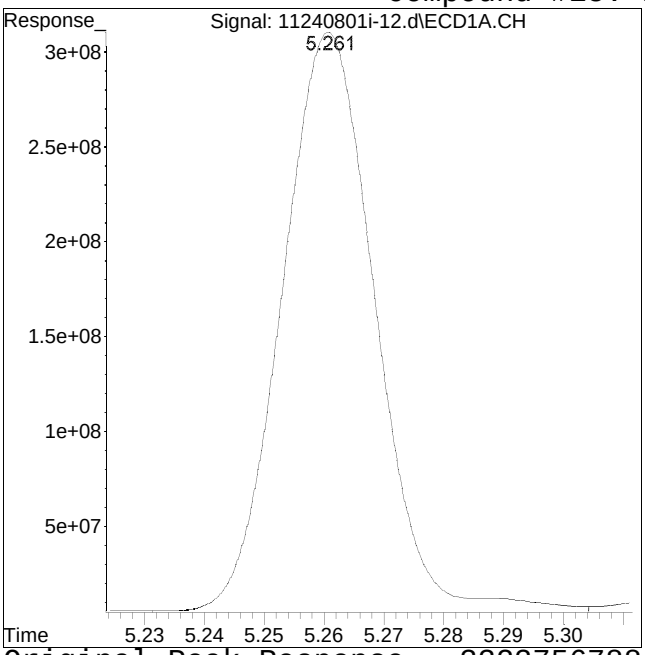


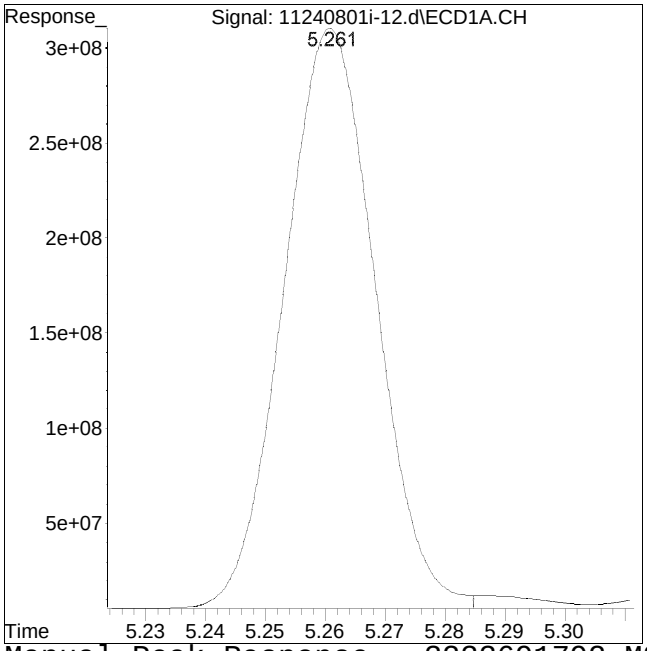
Original Peak Response = 2400427029 Manual Peak Response = 2395764983 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #25: Endosulfan Sulfate





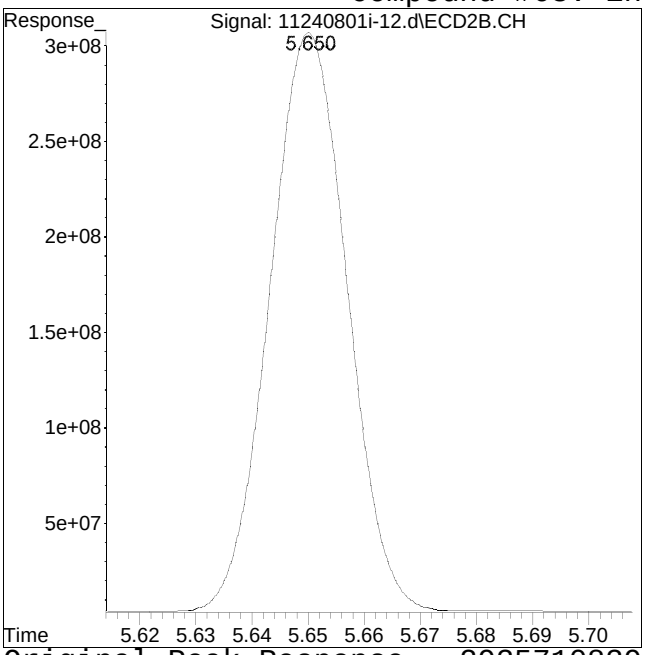
Original Peak Response = 3323756788 Manual Peak Response = 3233691792 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

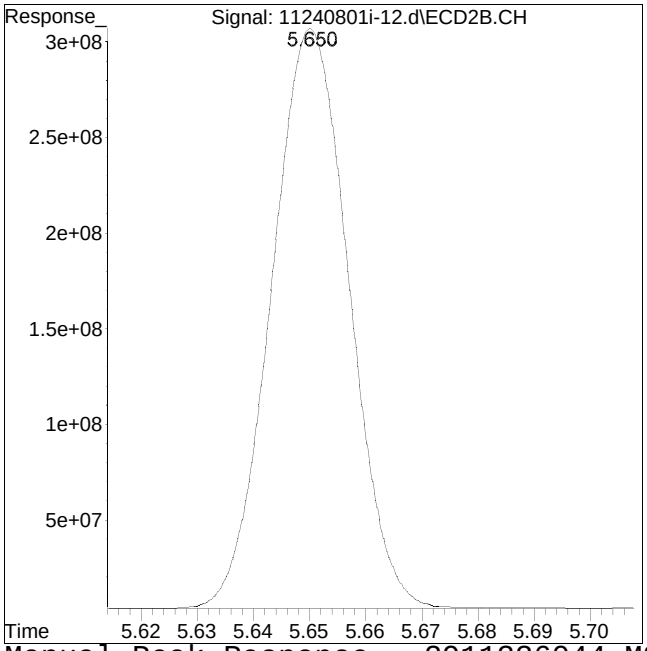
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #63: Endosulfan Sulfate #2



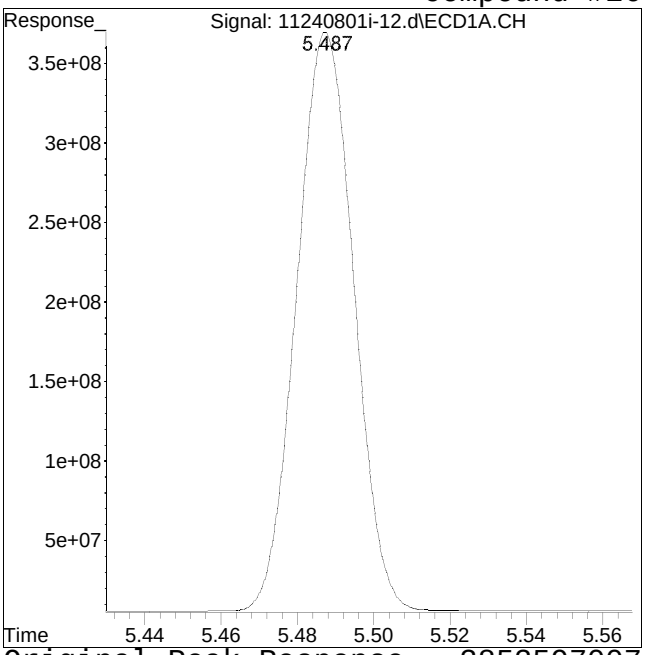


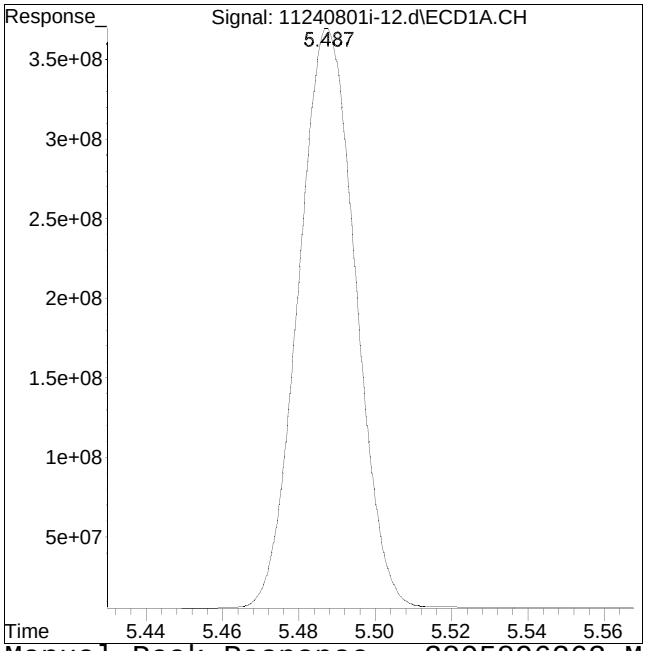
Original Peak Response = 2935710839 Manual Peak Response = 2911336044 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #26: Endrin Ketone



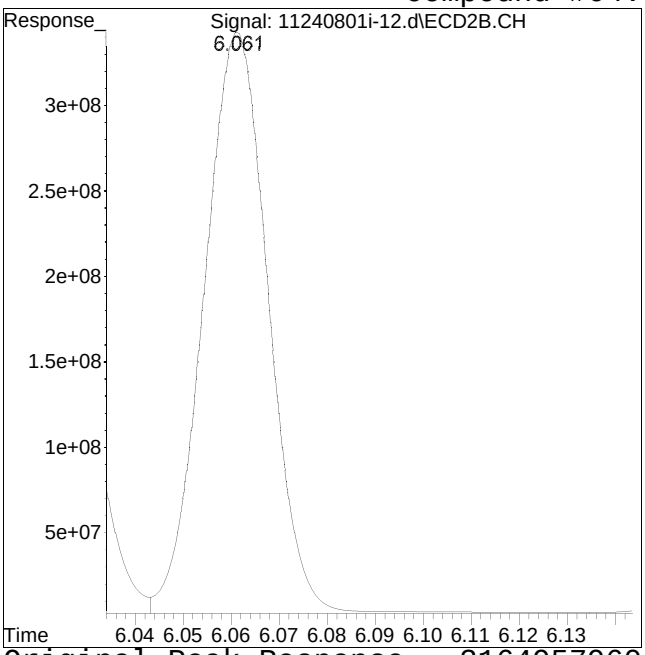


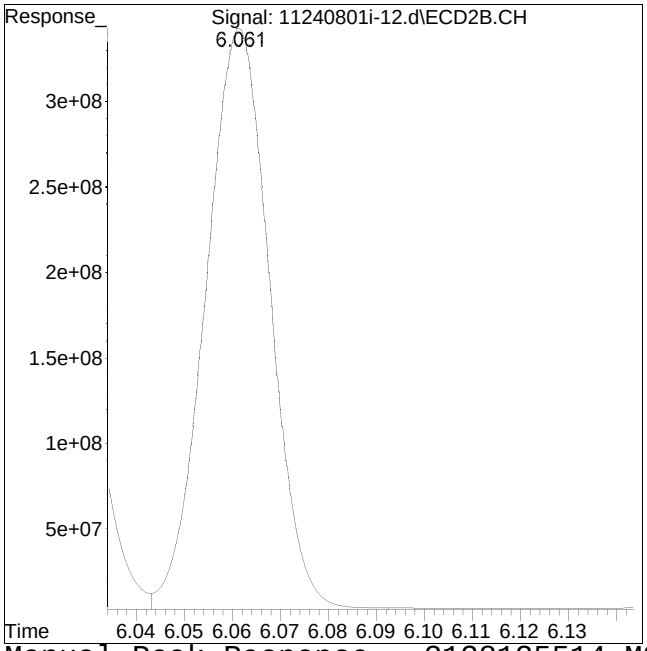
Original Peak Response = 3853597007 Manual Peak Response = 3805896263 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #64: Endrin Ketone #2





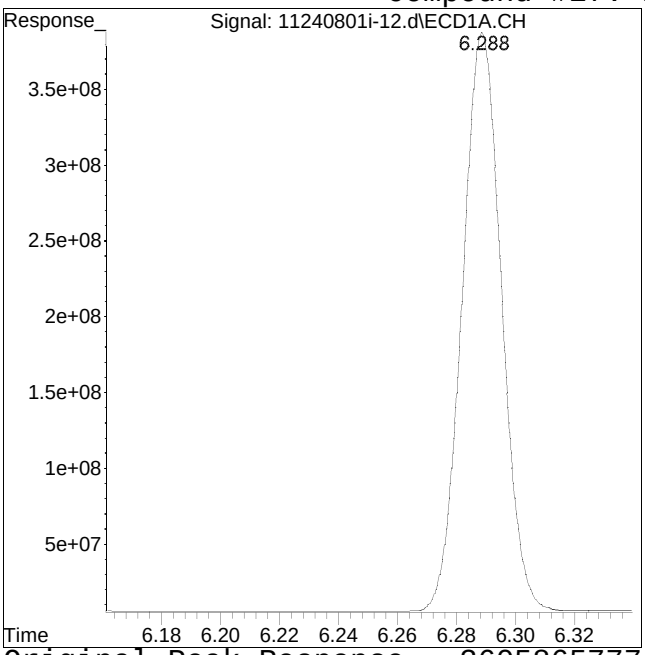
Original Peak Response = 3164957960 Manual Peak Response = 3138135514 M3

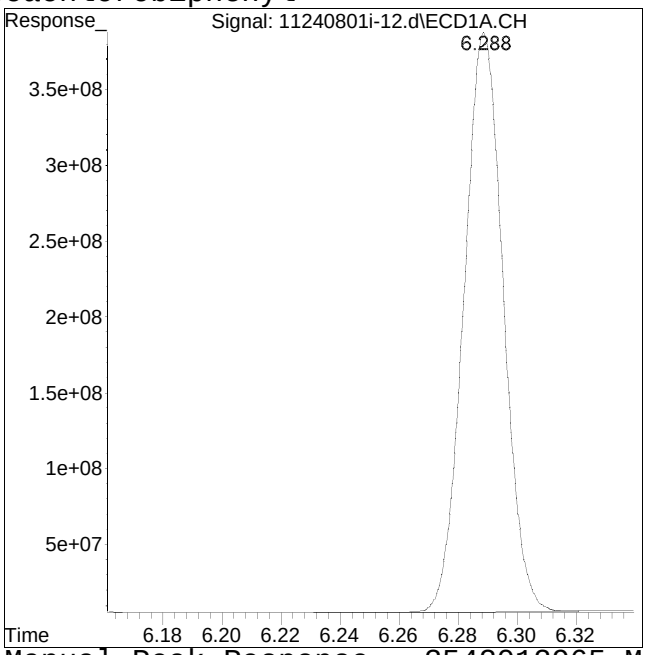
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #27: Decachlorobiphenyl



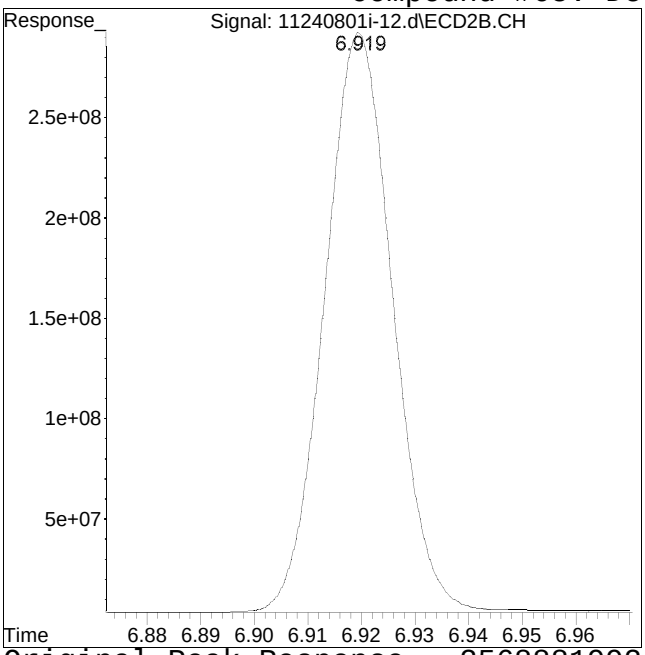


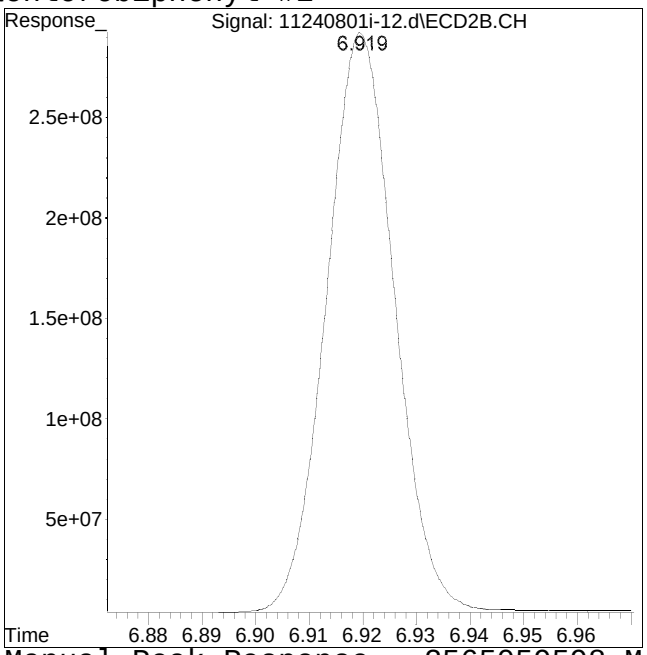
Original Peak Response = 3605865777 Manual Peak Response = 3542012965 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 2568881992 Manual Peak Response = 2565059598 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample   : cicvpest,42e,,pp 11675 L0.05ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	1.028	1.1	93	0.00
3	t	Hexachlorobenzene		1.406	1.322	6.0	93	0.00
4	t	alpha-BHC		1.461	1.501	-2.7	90	0.00
5	t	gamma-BHC (lindane)		1.395	1.357	2.7	88	0.00
6	t	beta-BHC		0.628	0.580	7.6	90	0.00
7	t	delta-BHC		1.374	1.334	2.9	85	0.00
8	t	Heptachlor		1.321	1.281	3.0	89	0.00
9	t	Aldrin		1.233	1.226	0.6	90	0.00
10	t	Alachlor		0.230	0.221	3.9	92	0.00
11	t	Chlorpyrifos		0.590	0.520	11.9	91	0.00
12	t	Heptachlor Epoxide		1.185	1.133	4.4	89	0.00
13	t	gamma-Chlordane (trans)		1.077	1.158	-7.5	101	0.00
14	t	alpha-Chlordane (cis)		1.216	1.146	5.8	88	0.00
15	t	4,4'-DDE		1.192	1.168	2.0	90	0.00
16	t	Endosulfan I		1.116	1.064	4.7	89	0.00
17	t	Dieldrin		1.135	1.204	-6.1	97	0.00
18	t	Endrin		1.153	1.120	2.9	88	0.00
19	t	4,4'-DDD		0.927	0.970	-4.6	96	0.00
20	t	Endosulfan II		1.052	1.055	-0.3	93	0.00
21	t	4,4'-DDT		1.058	1.044	1.3	91	0.00
22	t	Endrin Aldehyde		0.886	0.798	9.9	86	0.00
23	t	Methoxychlor		0.592	0.578	2.4	96	0.00
24	t	Mirex		0.938	0.888	5.3	95	0.00
25	t	Endosulfan Sulfate		1.010	0.981	2.9	93	0.00
26	t	Endrin Ketone		1.183	1.257	-6.3	99	0.00
27	s	Decachlorobiphenyl		1.163	1.085	6.7	99	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample   : cicvpest,42e,,pp 11675 L0.05ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	1.042	6.5	91	0.00
3	t	Hexachlorobenzene		1.239	1.113	10.2	92	0.00
4	t	alpha-BHC		1.620	1.576	2.7	88	0.00
5	t	gamma-BHC (lindane)		1.539	1.407	8.6	87	0.00
6	t	beta-BHC	*	50.000	47.735	4.5	89	0.00
7	t	delta-BHC		1.523	1.383	9.2	85	0.00
8	t	Heptachlor		1.598	1.441	9.8	88	0.00
9	t	Aldrin		1.435	1.344	6.3	89	0.00
10	t	Alachlor	*	50.000	52.133	-4.3	92	0.00
11	t	Chlorpyrifos	*	50.000	49.655	0.7	89	0.00
12	t	Heptachlor Epoxide		1.425	1.243	12.8	87	0.00
13	t	gamma-Chlordane (trans)		1.312	1.296	1.2	100	0.00
14	t	alpha-Chlordane (cis)		1.446	1.265	12.5	88	0.00
15	t	4,4'-DDE		1.343	1.252	6.8	88	0.00
16	t	Endosulfan I		1.332	1.167	12.4	88	0.00
17	t	Dieldrin		1.327	1.319	0.6	96	0.00
18	t	Endrin		1.347	1.231	8.6	88	0.00
19	t	4,4'-DDD		1.084	1.070	1.3	94	0.00
20	t	Endosulfan II		1.214	1.119	7.8	92	0.00
21	t	4,4'-DDT		1.250	1.163	7.0	90	0.00
22	t	Endrin Aldehyde	*	50.000	45.377	9.2	85	0.00
23	t	Methoxychlor		0.704	0.626	11.1	94	0.00
24	t	Mirex	*	50.000	50.644	-1.3	94	0.00
25	t	Endosulfan Sulfate		1.199	1.078	10.1	92	0.00
26	t	Endrin Ketone		1.261	1.242	1.5	98	0.00
27	s	Decachlorobiphenyl		1.060	0.941	11.2	95	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample   : cicvpest,42e,,pp 11675 L0.05ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.31#
29	l1	chlordane-1	*	0.037	0.000	100.0#	0#	-2.45#
30	l1	chlordane-3	*	0.047	0.000	100.0#	0#	-2.87#
31	l1	chlordane-4	*	0.159	0.000	100.0#	0#	-3.42#
32	l1	chlordane-5	*	0.245	0.000	100.0#	0#	-3.55#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.31#
34	l2	toxaphene-2	*	0.050	0.000	100.0#	0#	-4.44#
35	l2	toxaphene-3	*	0.039	0.000	100.0#	0#	-4.57#
36	l2	toxaphene-4	*	0.042	0.000	100.0#	0#	-4.79#
37	l2	toxaphene-5	*	0.043	0.000	100.0#	0#	-5.17#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.39#
29	l1	chlordane-1	*	0.043	0.000	100.0#	0#	-2.82#
30	l1	chlordane-3	*	0.052	0.000	100.0#	0#	-3.42#
31	l1	chlordane-4	*	0.173	0.000	100.0#	0#	-4.10#
32	l1	chlordane-5	*	0.134	0.000	100.0#	0#	-4.28#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.39#
34	l2	toxaphene-2	*	0.025	0.000	100.0#	0#	-5.08#
35	l2	toxaphene-3	*	0.037	0.000	100.0#	0#	-5.11#
36	l2	toxaphene-4	*	0.044	0.000	100.0#	0#	-5.43#
37	l2	toxaphene-5	*	0.042	0.000	100.0#	0#	-5.84#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	222.3E6	177.6E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	456.9E6	370.0E6	49.453M3	46.772M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		98.91%	93.54%
27) s	Decachlorobi	6.288	6.918	482.5E6	334.3E6	46.657M3	44.401M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		93.31%	88.80%
	Target Compounds						
3) t	Hexachlorobe	1.865	2.178	587.8E6	395.1E6	47.014M3	44.899M3
4) t	alpha-BHC	1.963	2.271	667.2E6	559.8E6	51.377M4	48.662M4
5) t	gamma-BHC (l	2.165	2.557	603.3E6	499.8E6	48.621M4	45.722M4
6) t	beta-BHC	2.221	2.623	257.8E6	214.1E6	46.189M4	47.735M3
7) t	delta-BHC	2.349	2.890	593.1E6	491.2E6	48.542M4	45.411
8) t	Heptachlor	2.513	2.953	569.5E6	511.7E6	48.485M4	45.092
9) t	Aldrin	2.756	3.272	545.1E6	477.4E6	49.714M3	46.842
10) t	Alachlor	2.876	3.153	98339329	67754072	48.033M4	52.133M4
11) t	Chlorpyrifos	2.968	3.506	231.0E6	247.0E6	44.053M3	49.655M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.884	503.7E6	441.6E6	47.784M3	43.617M3
13)	t	gamma-Chlord	3.425	4.105	514.8E6	460.2E6	53.753M4	49.404M4
14)	t	alpha-Chlord	3.559	4.274	509.4E6	449.4E6	47.103M4	43.758
15)	t	4,4'-DDE	3.656	4.473	519.3E6	444.5E6	49.014M4	46.608M4
16)	t	Endosulfan I	3.695	4.336	473.1E6	414.6E6	47.669M3	43.821M4
17)	t	Dieldrin	3.954	4.627	535.4E6	468.3E6	53.047M4	49.677M3
18)	t	Endrin	4.210	4.926	497.7E6	437.0E6	48.558	45.687
19)	t	4,4'-DDD	4.322	5.049	431.2E6	379.8E6	52.297	49.344M4
20)	t	Endosulfan I	4.451	5.125	468.9E6	397.6E6	50.128	46.124M4
21)	t	4,4'-DDT	4.616	5.326	464.0E6	412.9E6	49.301	46.497M4
22)	t	Endrin Aldeh	4.868	5.421	355.0E6	301.1E6	45.037M4	45.377M3
23)	t	Methoxychlor	5.104	5.890	256.9E6	222.3E6	48.807M4	44.431M3
24)	t	Mirex	5.160	6.023	394.7E6	325.6E6	47.337M3	50.644M4
25)	t	Endosulfan S	5.260	5.649	436.2E6	382.7E6	48.586M3	44.940M4
26)	t	Endrin Keton	5.486	6.060	558.9E6	441.2E6	53.123M4	49.265M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

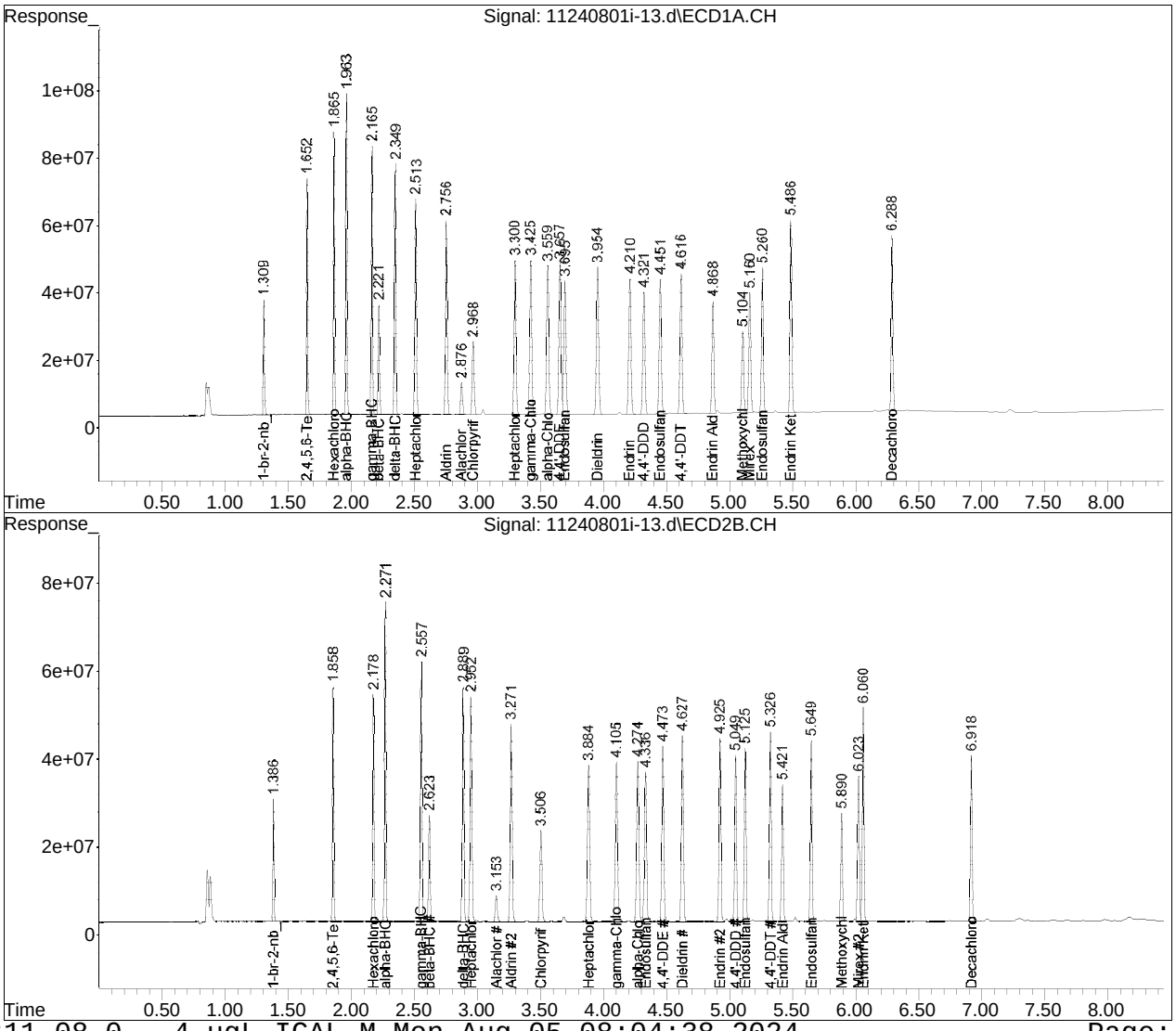
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

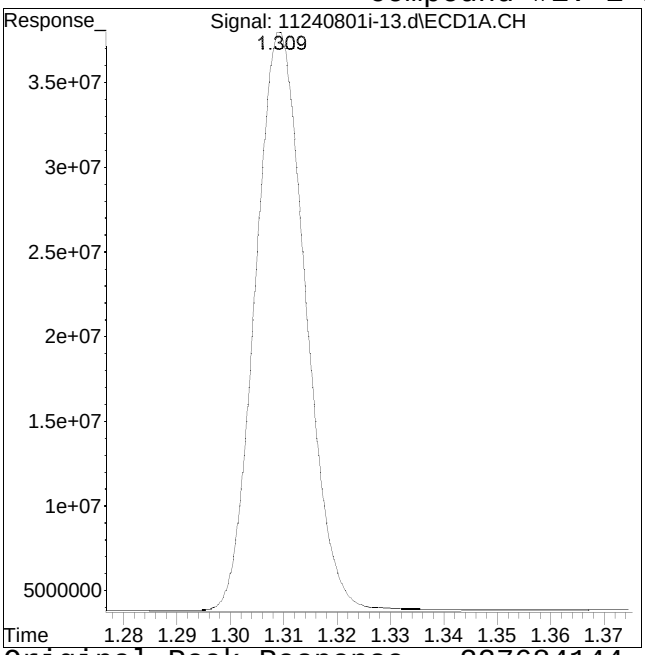


Manual Integration Report

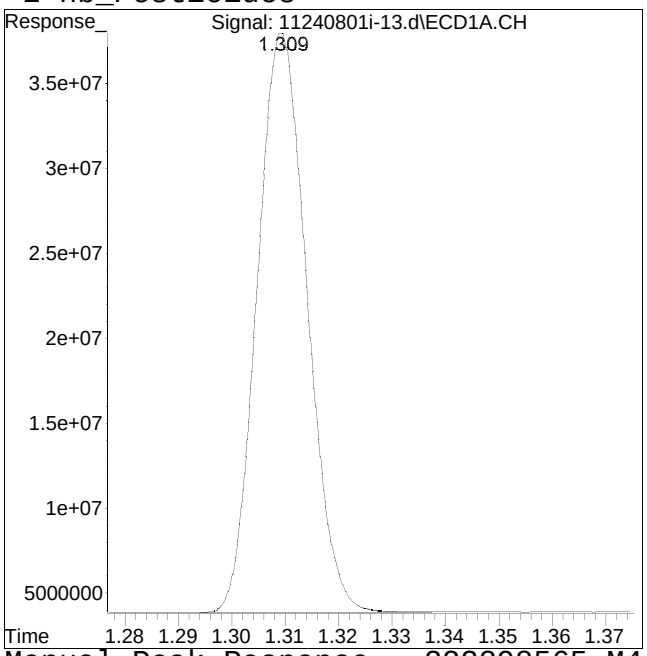
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 227684144



Manual Peak Response = 222298565 M4

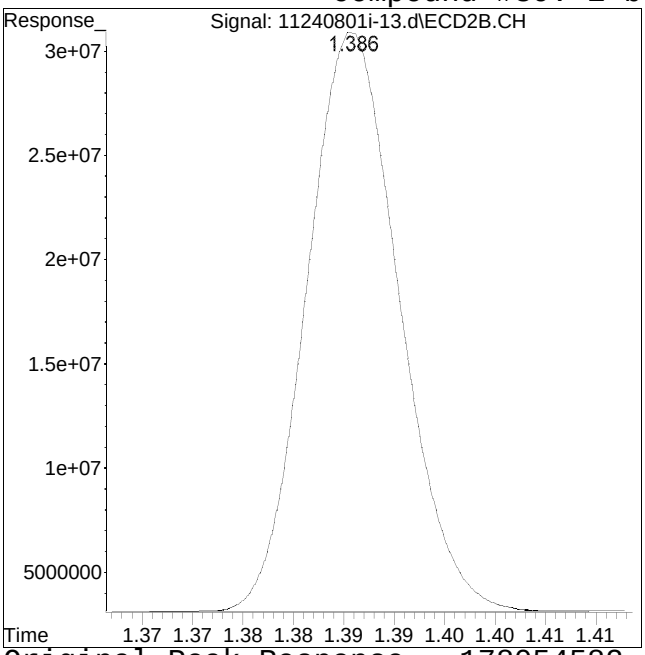
M4 = Poor automated baseline construction.

Manual Integration Report

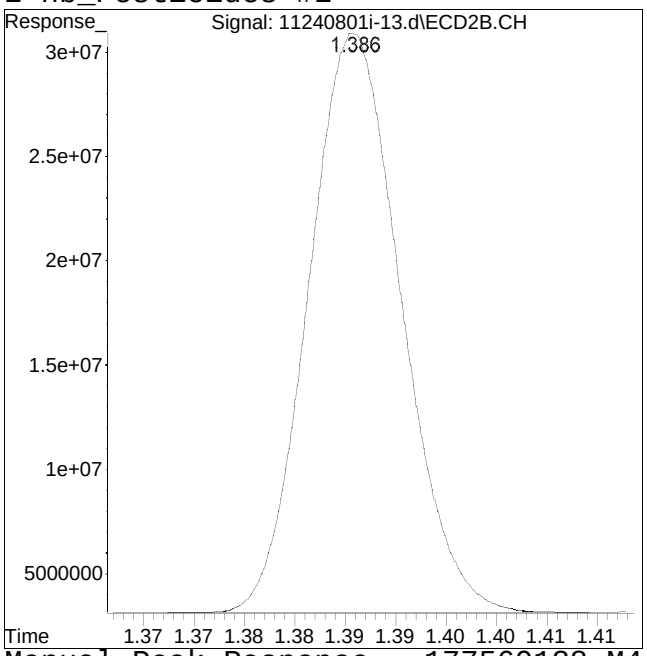
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 178054582



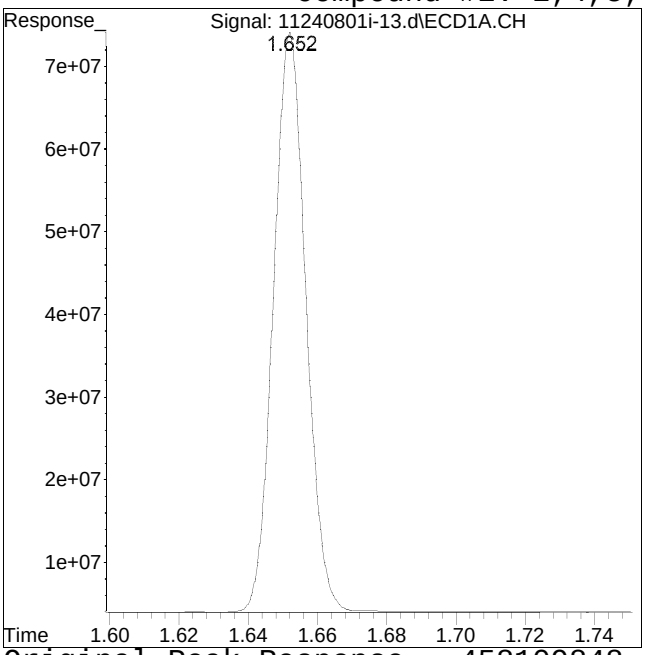
Manual Peak Response = 177569138 M4

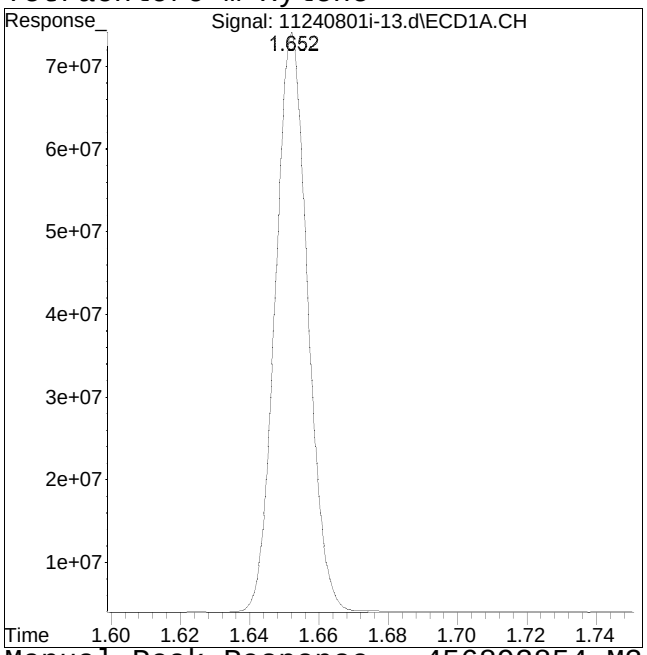
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





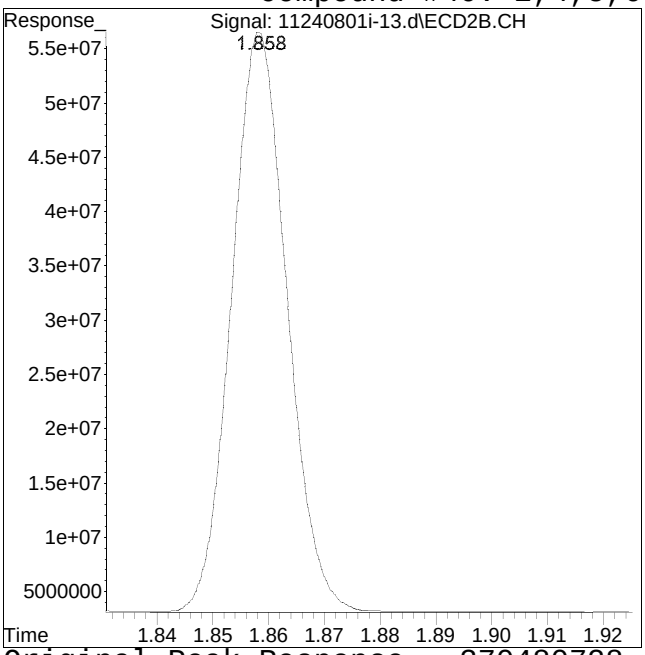
Original Peak Response = 458109848 Manual Peak Response = 456893854 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

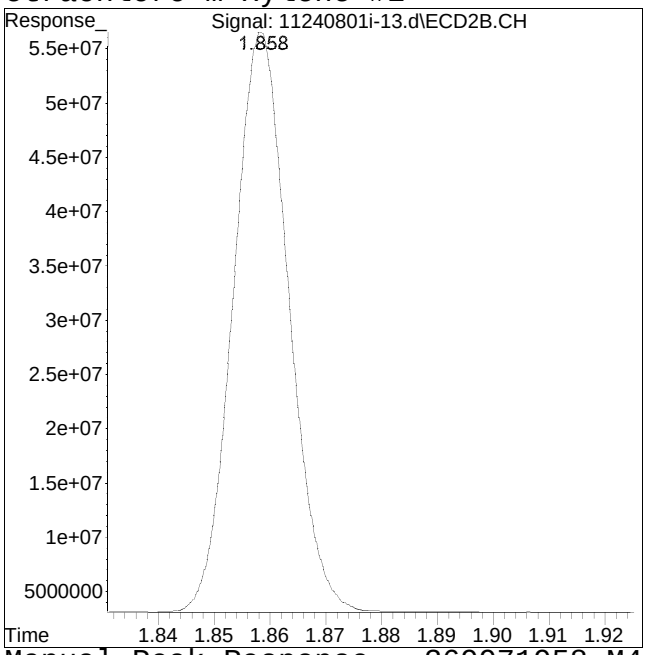
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 370480728



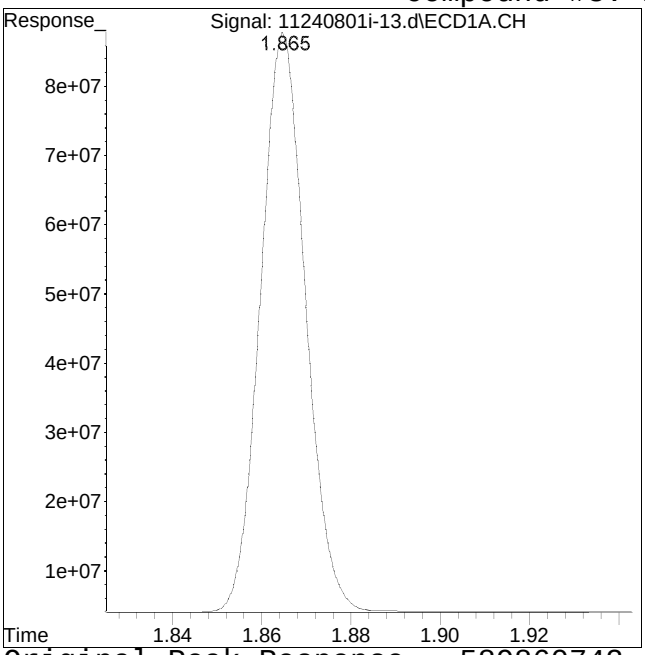
Manual Peak Response = 369971958 M4

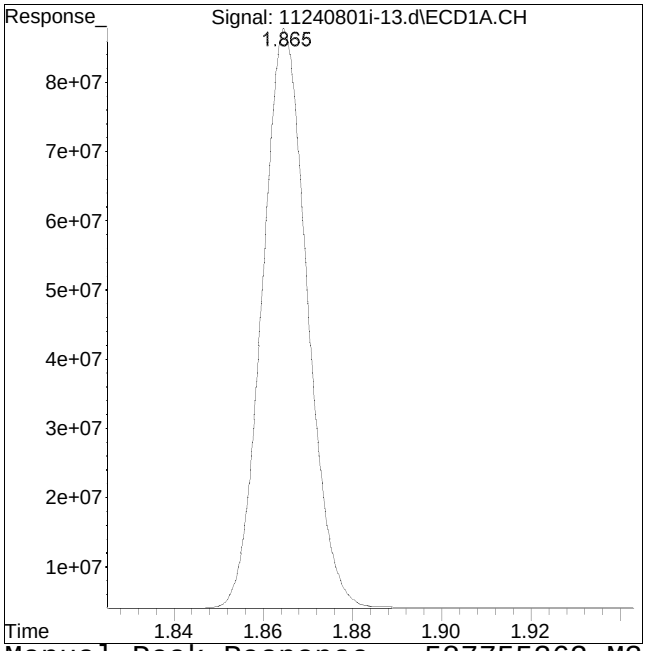
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #3: Hexachlorobenzene





Original Peak Response = 589860742 Manual Peak Response = 587755363 M3

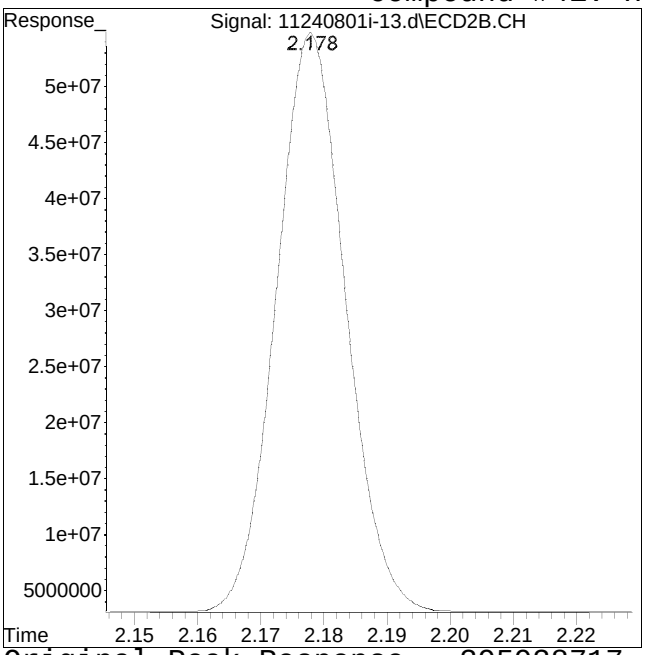
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

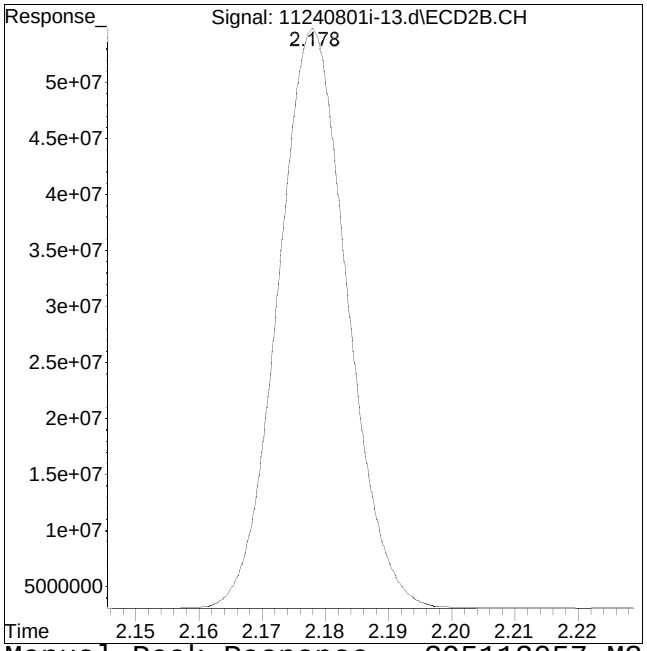
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #41: Hexachlorobenzene #2





Original Peak Response = 395938717 Manual Peak Response = 395113057 M3

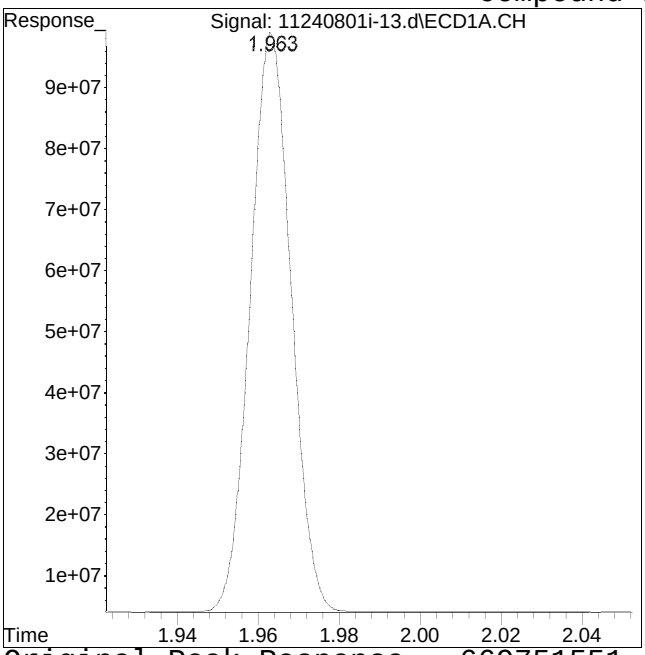
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

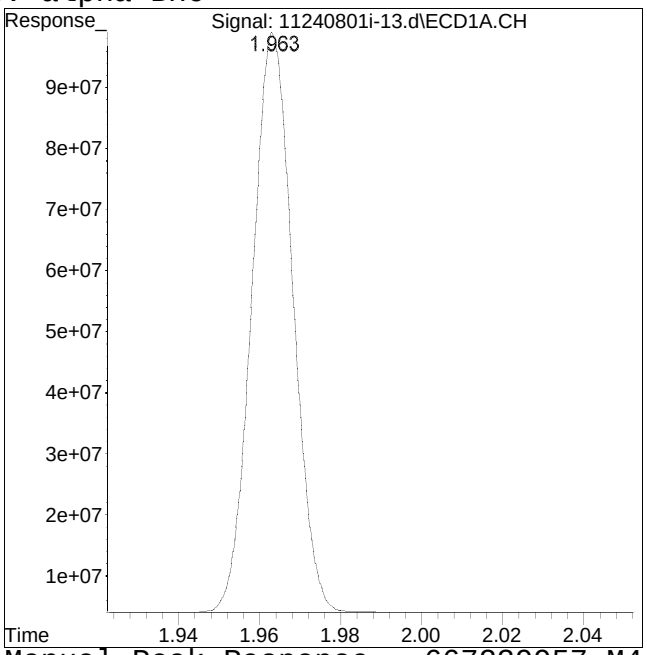
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #4: alpha-BHC



Original Peak Response = 669751551



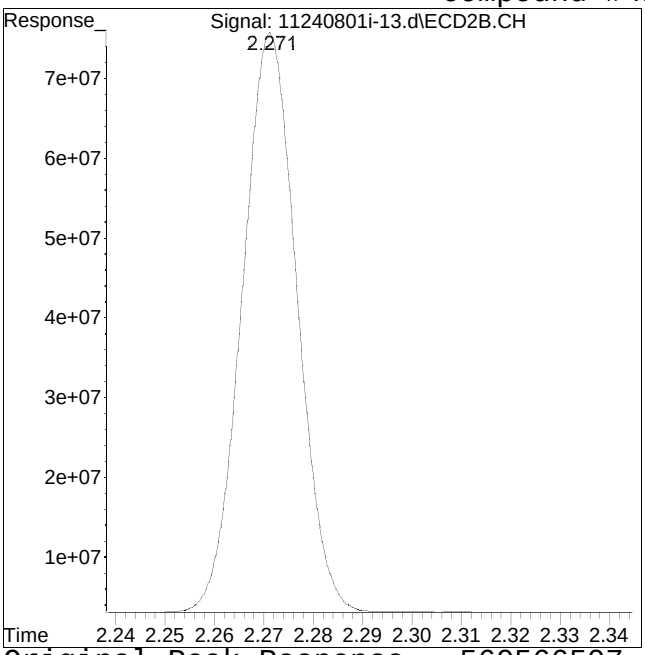
Manual Peak Response = 667239957 M4

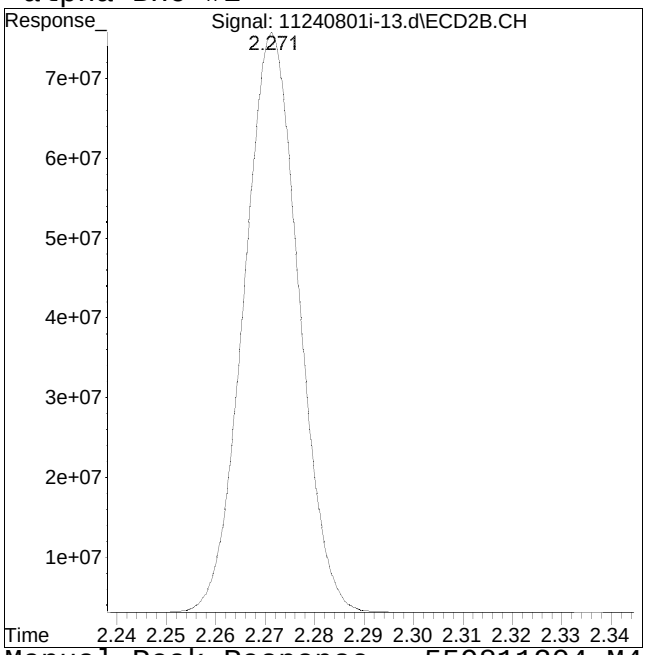
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #42: alpha-BHC #2



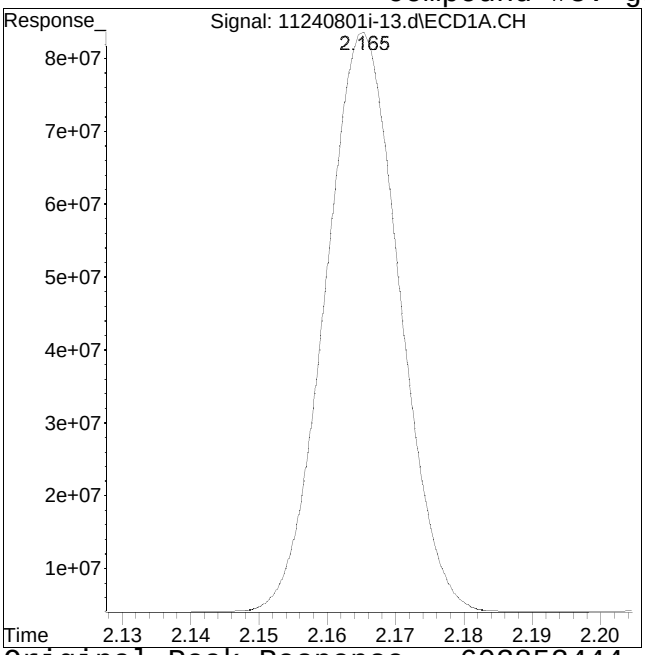


Original Peak Response = 560566507 Manual Peak Response = 559811204 M4
M4 = Poor automated baseline construction.

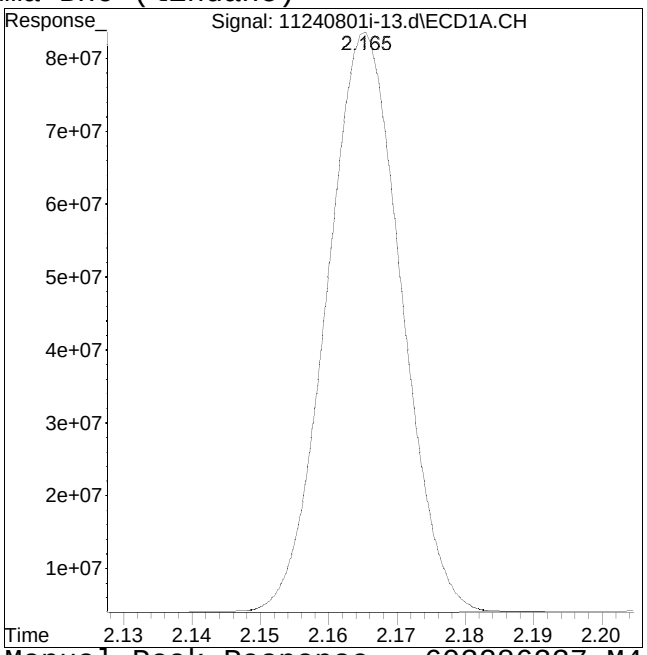
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 603852444



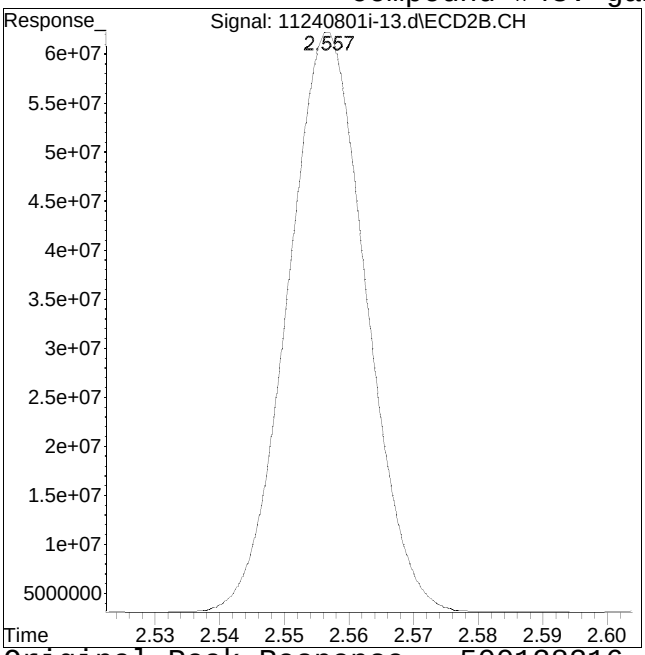
Manual Peak Response = 603286337 M4

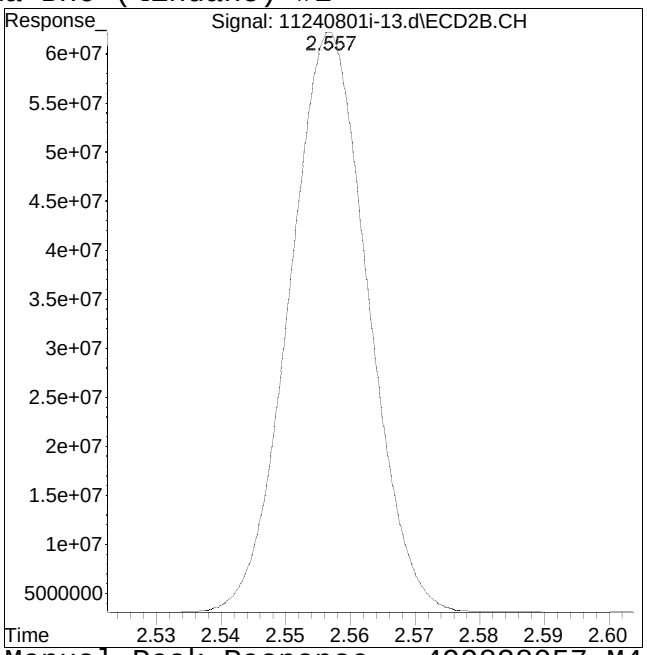
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #43: gamma-BHC (lindane) #2





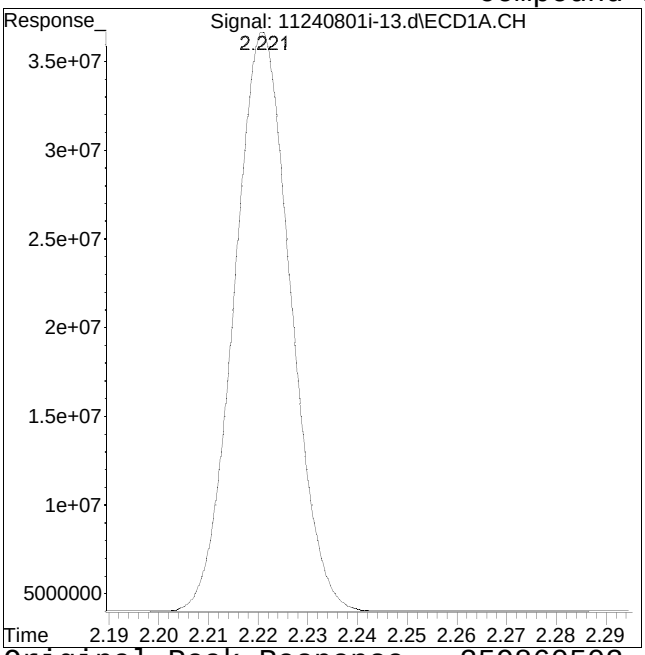
Original Peak Response = 500138316 Manual Peak Response = 499828057 M4
M4 = Poor automated baseline construction.

Manual Integration Report

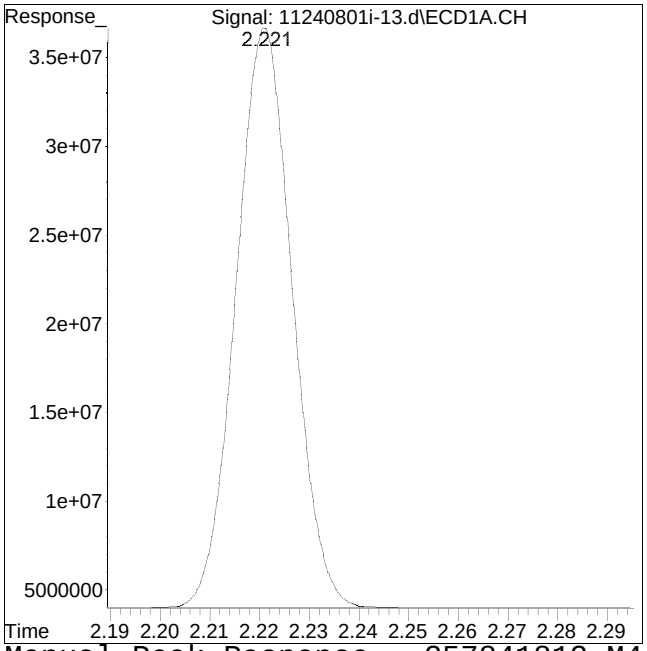
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #6: beta-BHC



Original Peak Response = 259860503



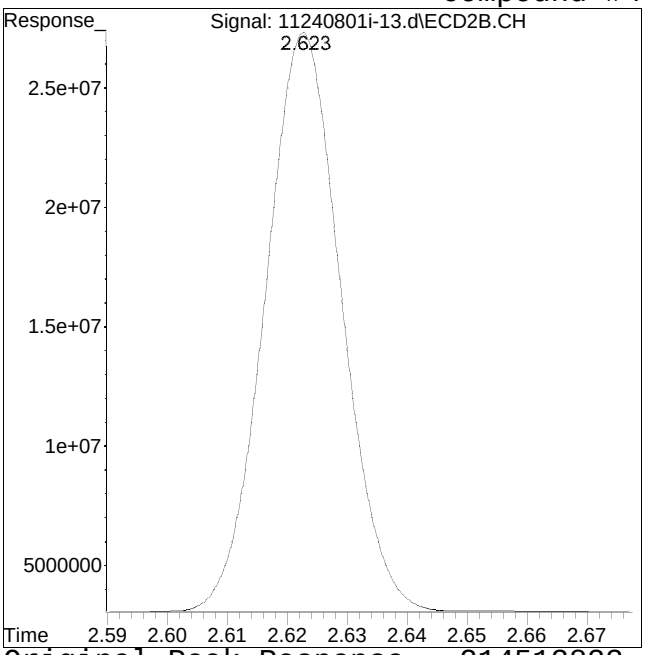
Manual Peak Response = 257841812 M4

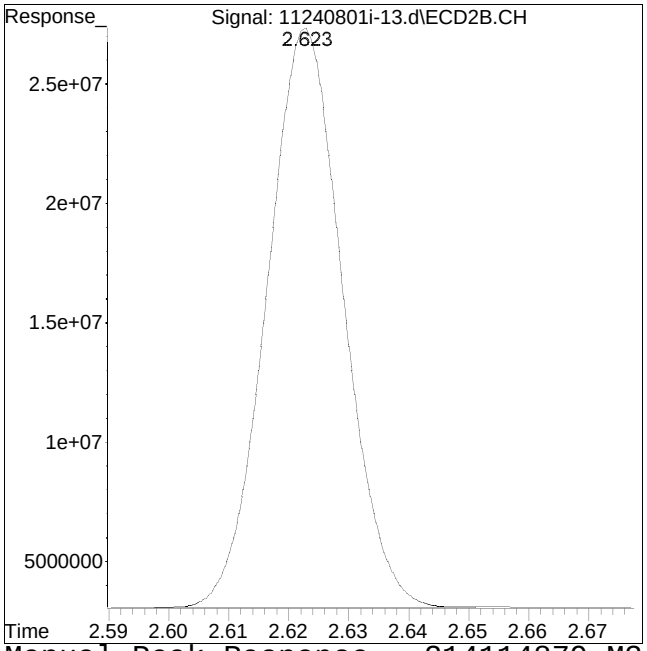
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #44: beta-BHC #2





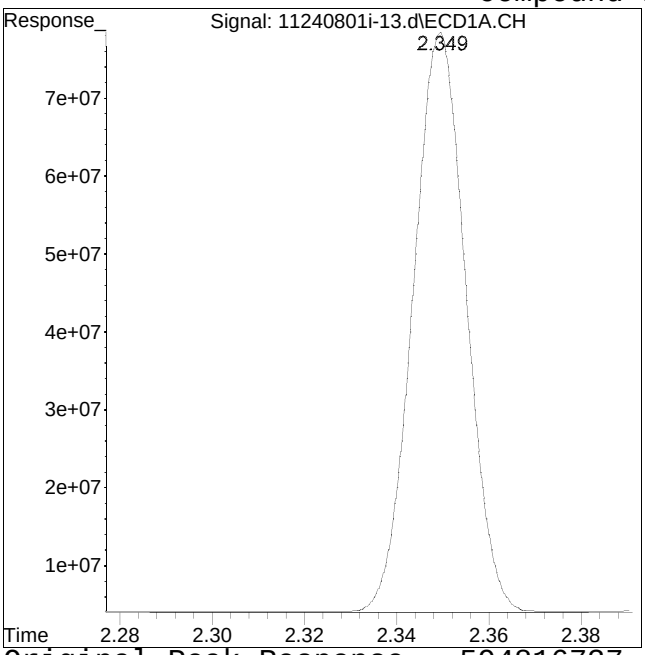
Original Peak Response = 214512823 Manual Peak Response = 214114879 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

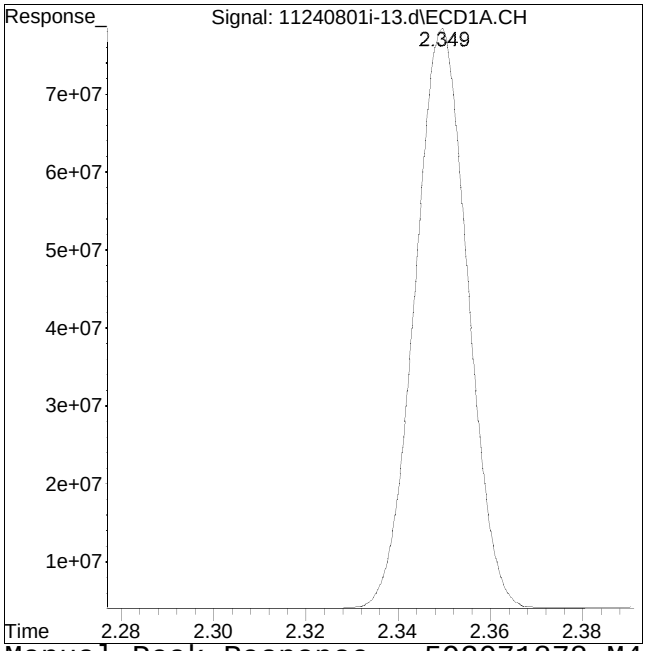
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #7: delta-BHC



Original Peak Response = 594816737



Manual Peak Response = 593071878 M4

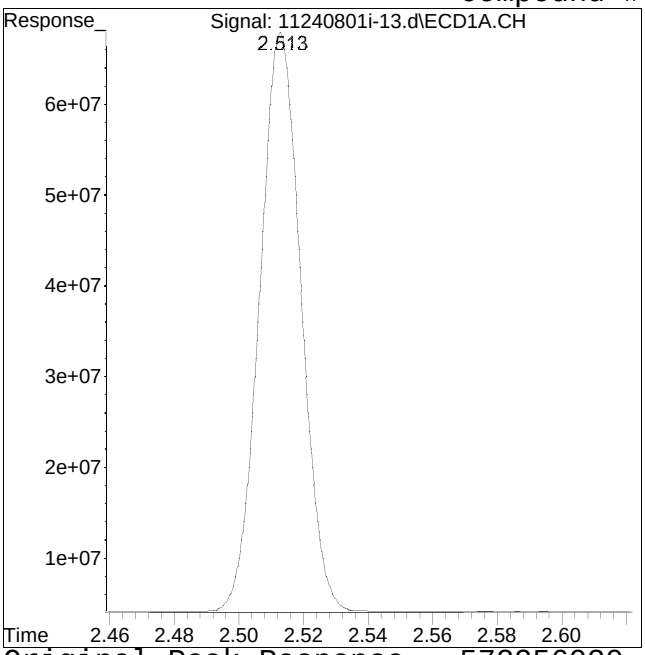
M4 = Poor automated baseline construction.

Manual Integration Report

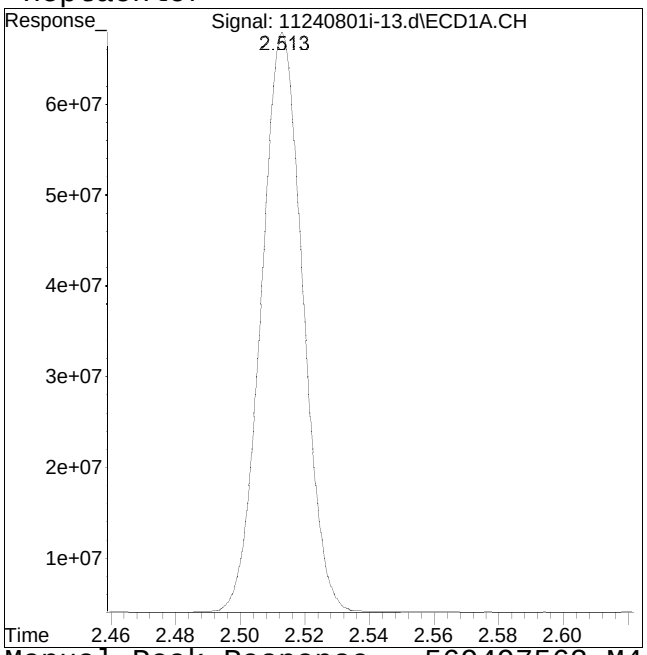
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #8: Heptachlor



Original Peak Response = 572256920



Manual Peak Response = 569497562 M4

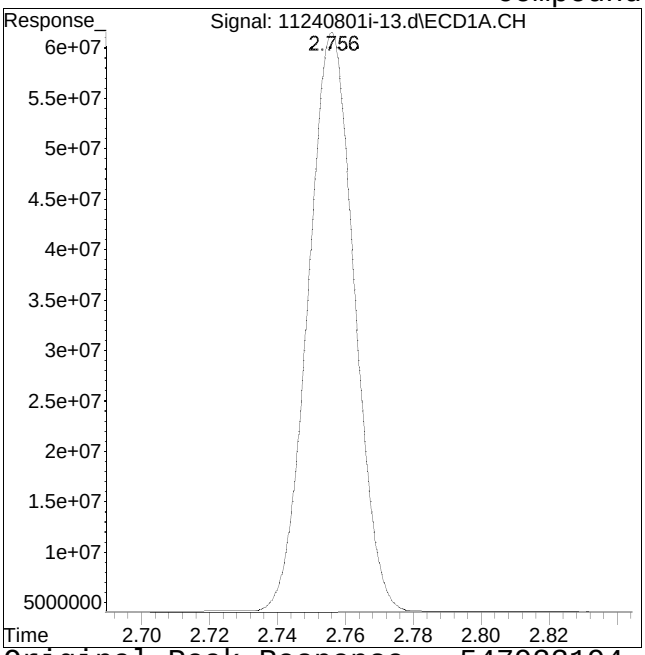
M4 = Poor automated baseline construction.

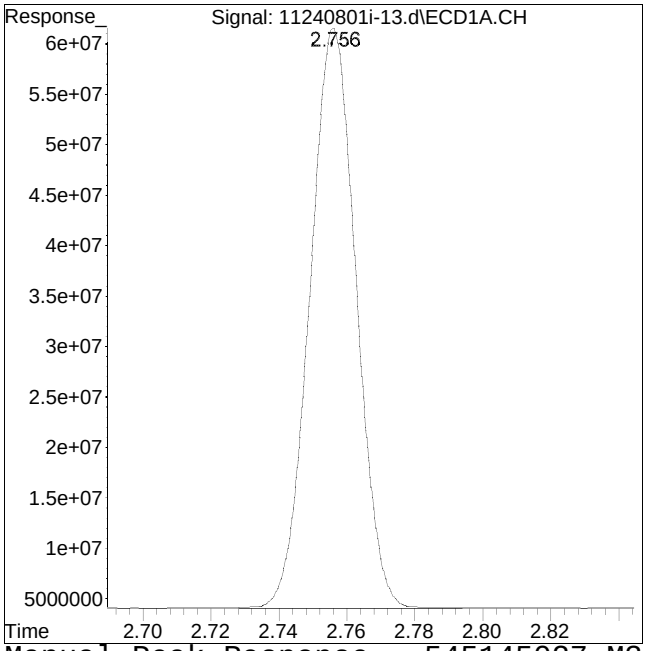
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #9: Aldrin





Original Peak Response = 547933194 Manual Peak Response = 545145027 M3

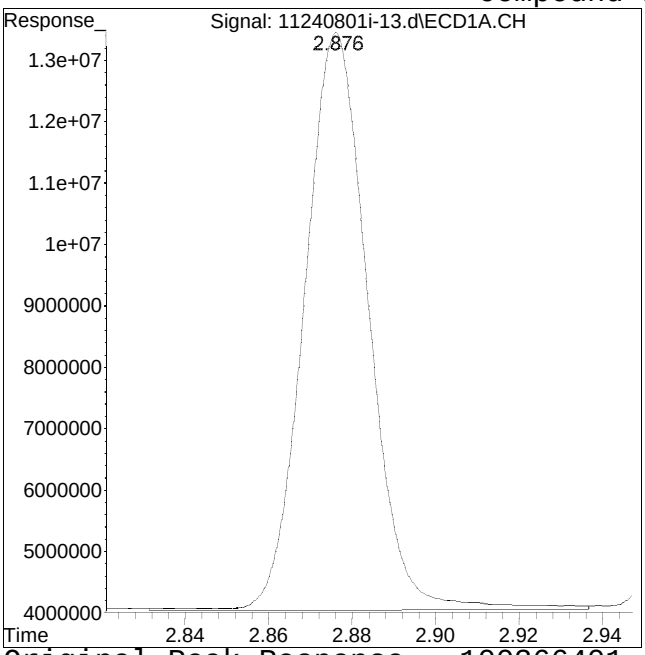
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

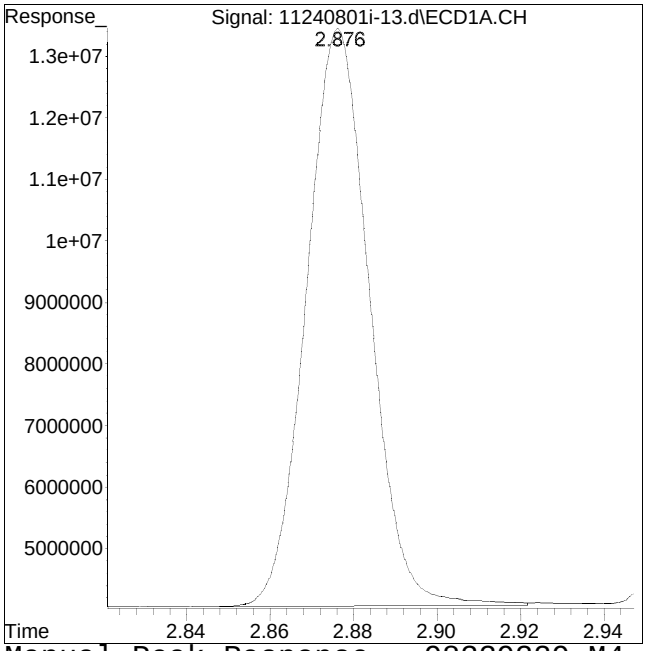
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #10: Alachlor



Original Peak Response = 100366401



Manual Peak Response = 98339329 M4

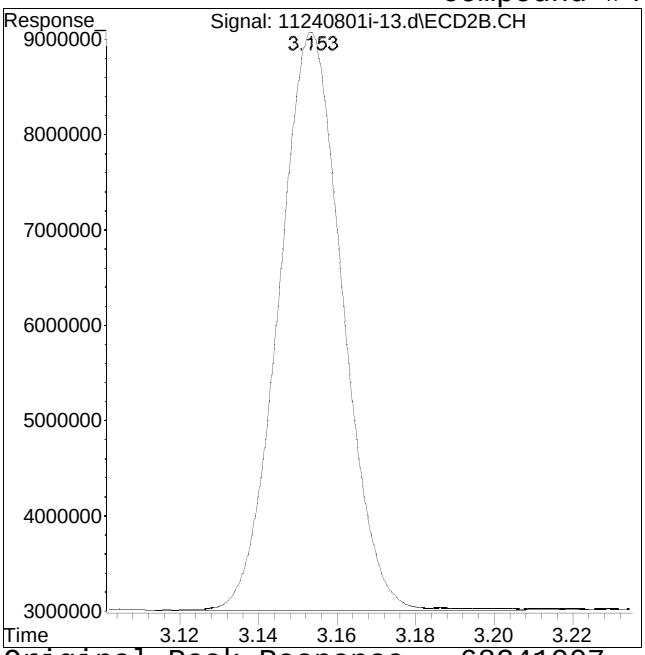
M4 = Poor automated baseline construction.

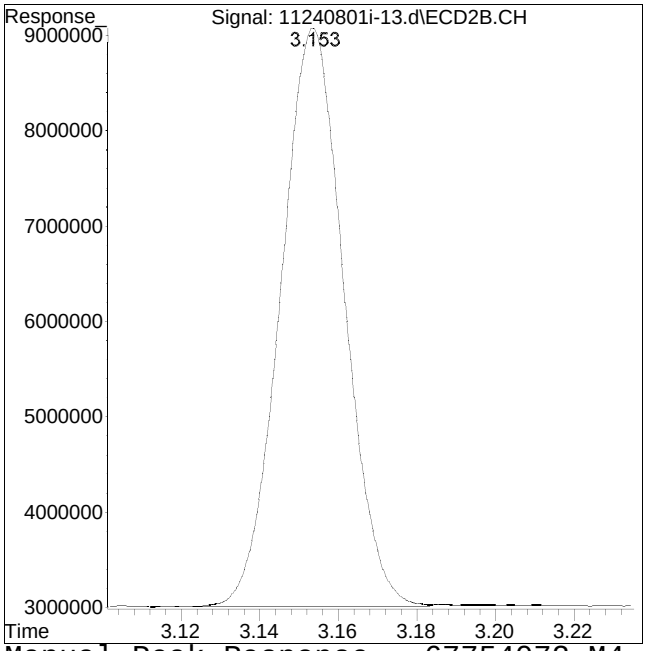
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #48: Alachlor #2



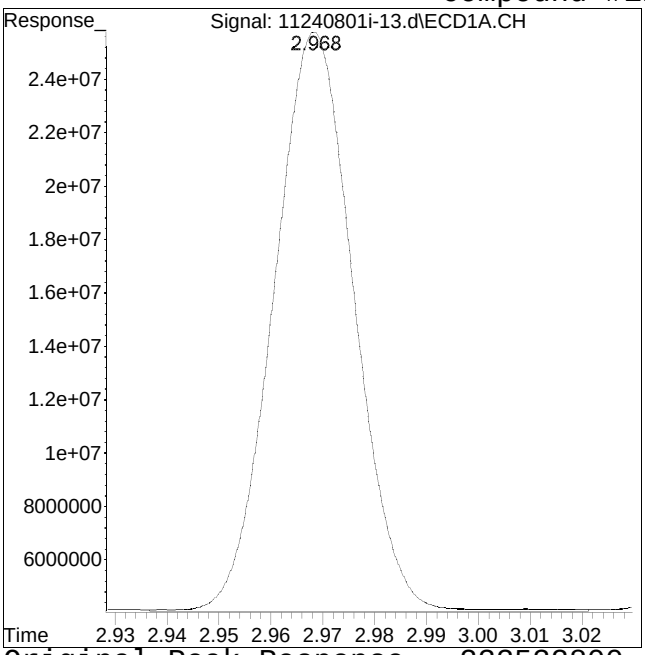


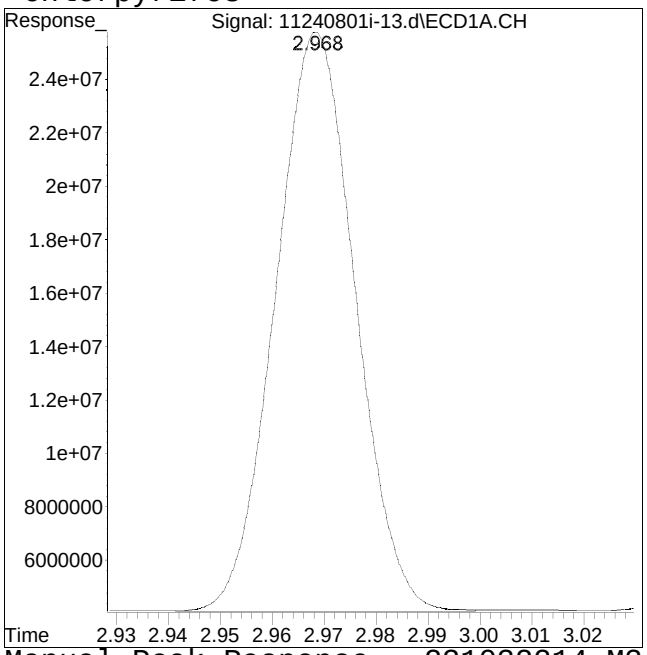
Original Peak Response = 68241007 Manual Peak Response = 67754072 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #11: Chlorpyrifos



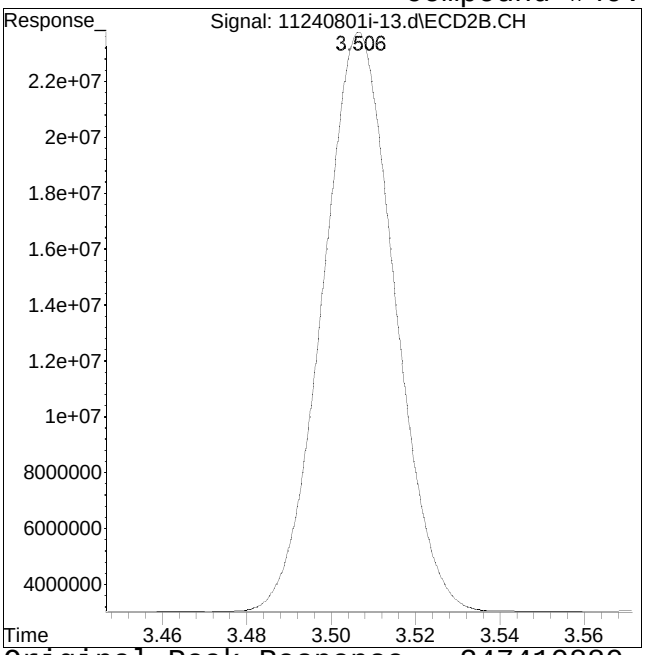


Original Peak Response = 233532800 Manual Peak Response = 231032214 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

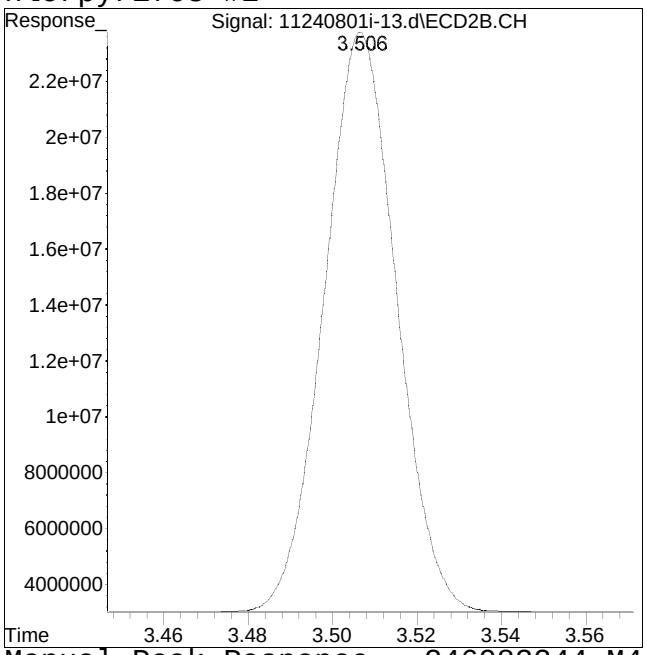
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 247410880



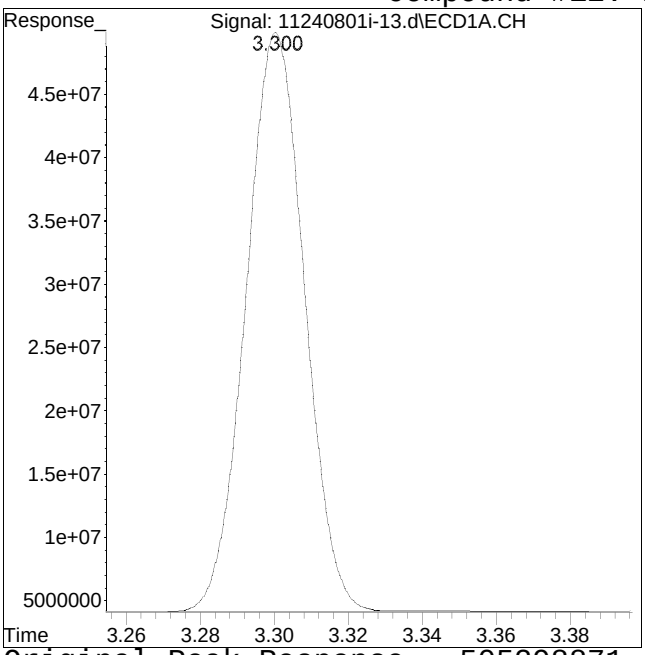
Manual Peak Response = 246983244 M4

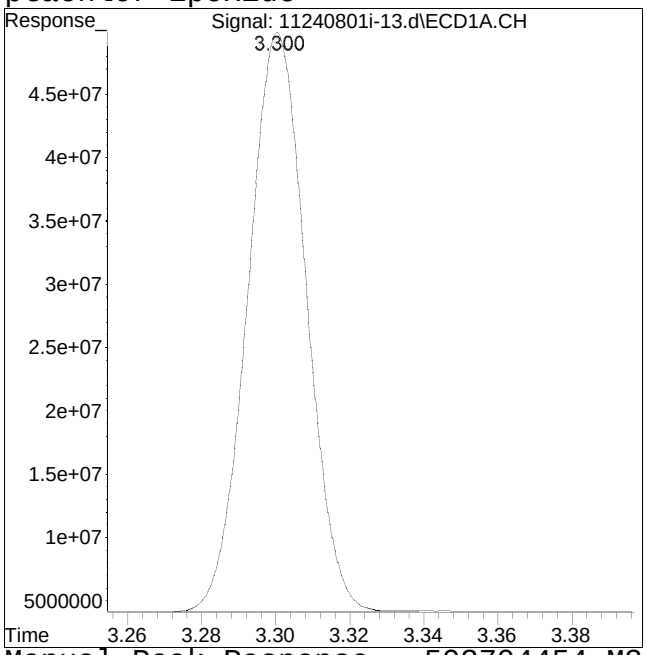
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #12: Heptachlor Epoxide





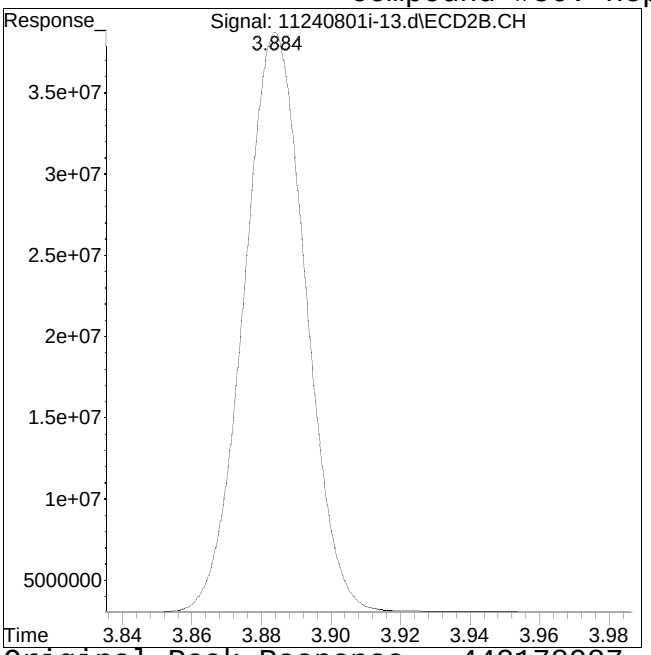
Original Peak Response = 505298871 Manual Peak Response = 503704454 M3

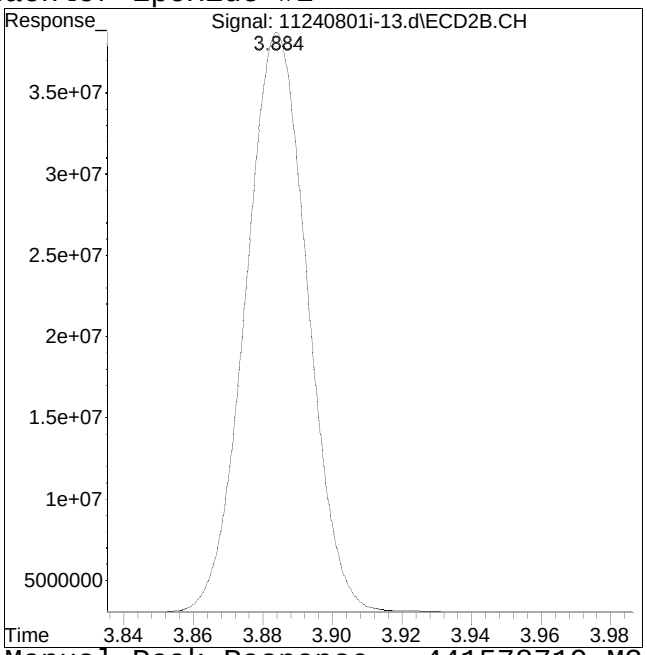
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #50: Heptachlor Epoxide #2





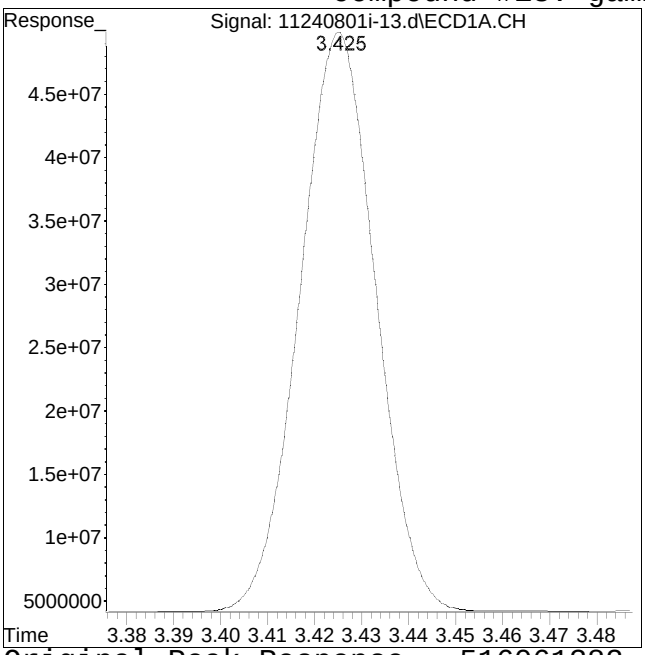
Original Peak Response = 442178987 Manual Peak Response = 441578719 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

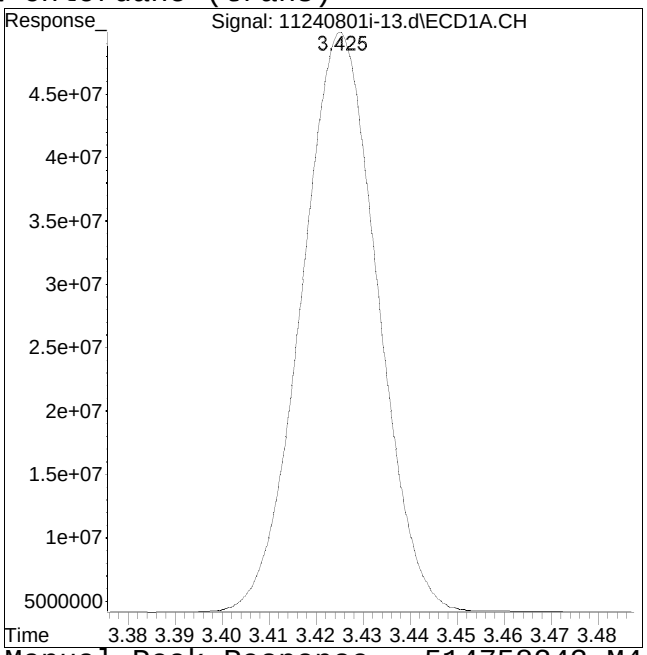
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 516061382



Manual Peak Response = 514758243 M4

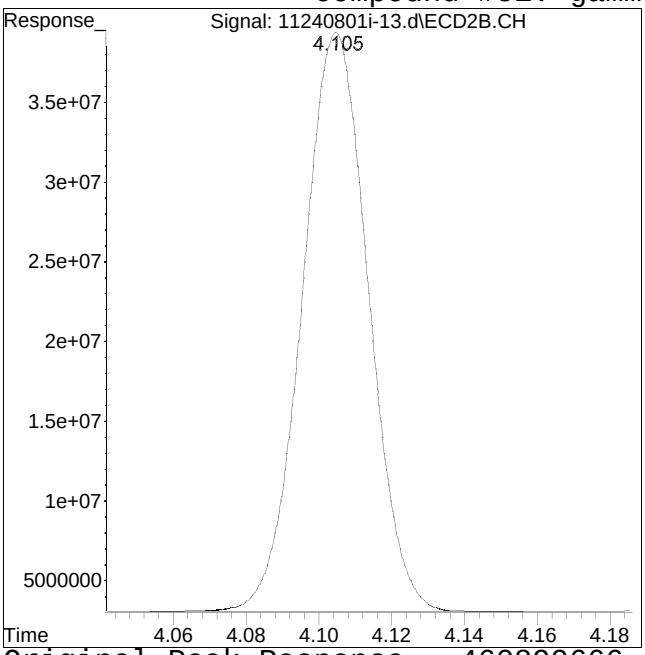
M4 = Poor automated baseline construction.

Manual Integration Report

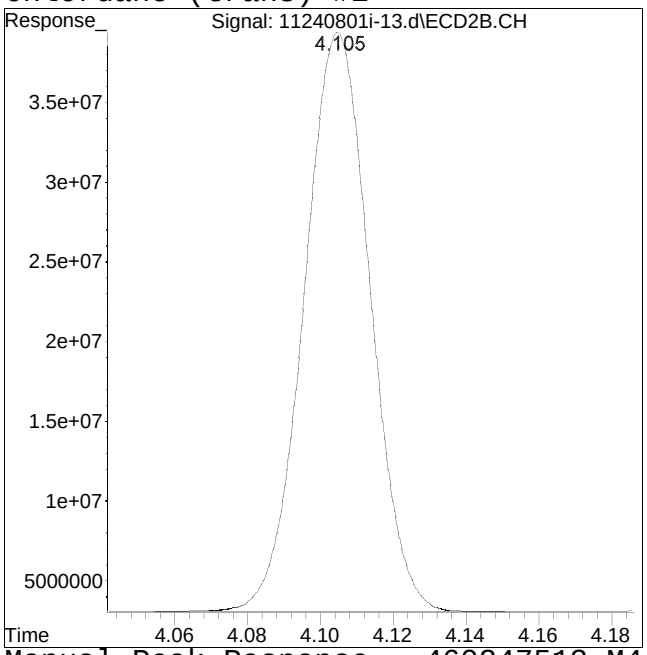
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 460899666



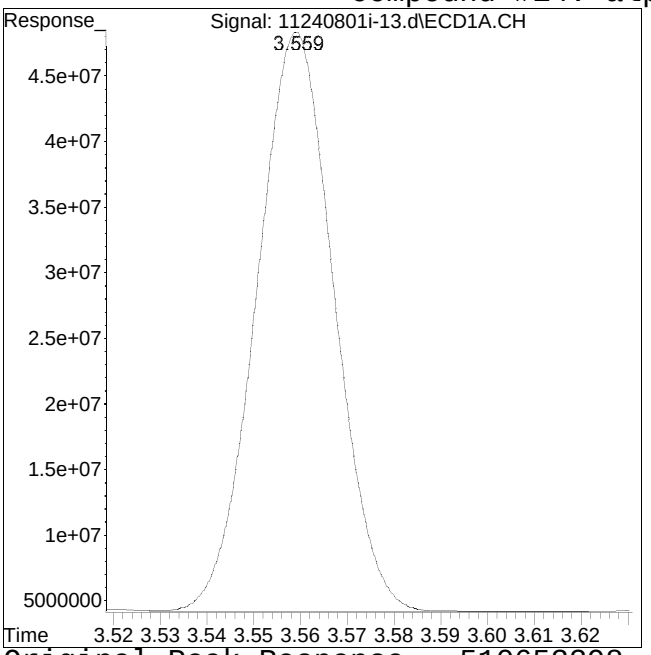
Manual Peak Response = 460247513 M4

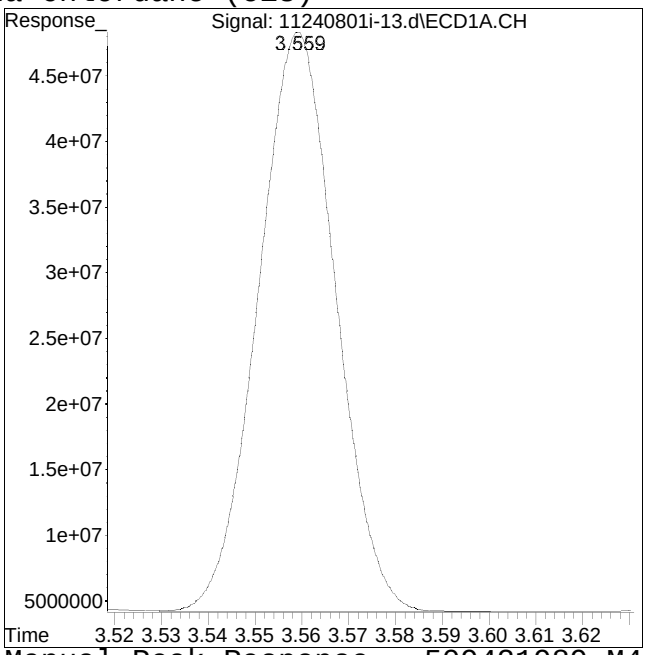
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #14: alpha-Chlordane (cis)





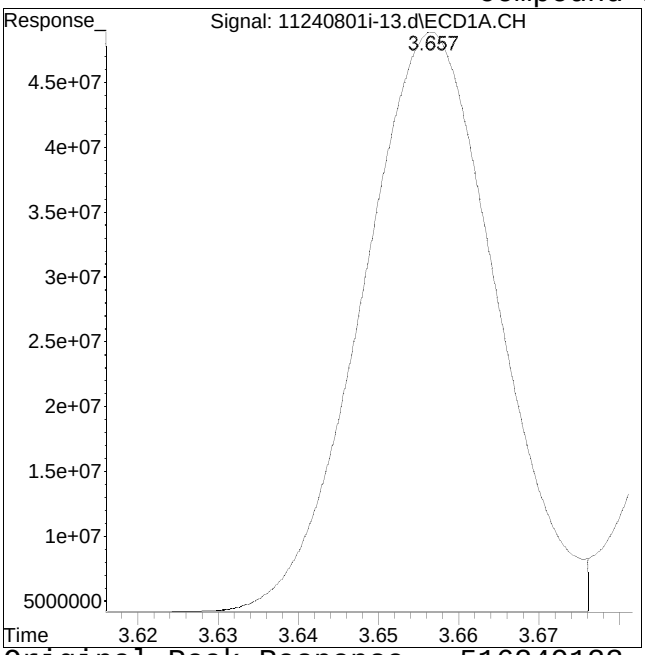
Original Peak Response = 510653398 Manual Peak Response = 509421989 M4
M4 = Poor automated baseline construction.

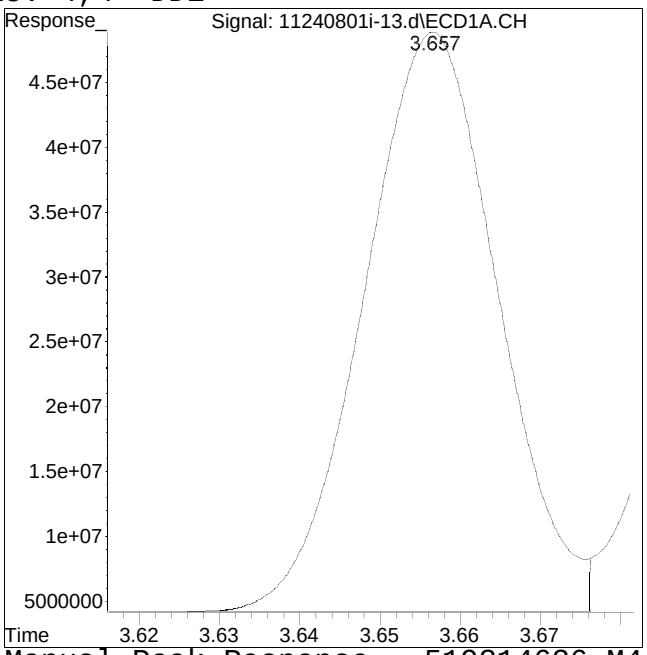
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #15: 4,4'-DDE



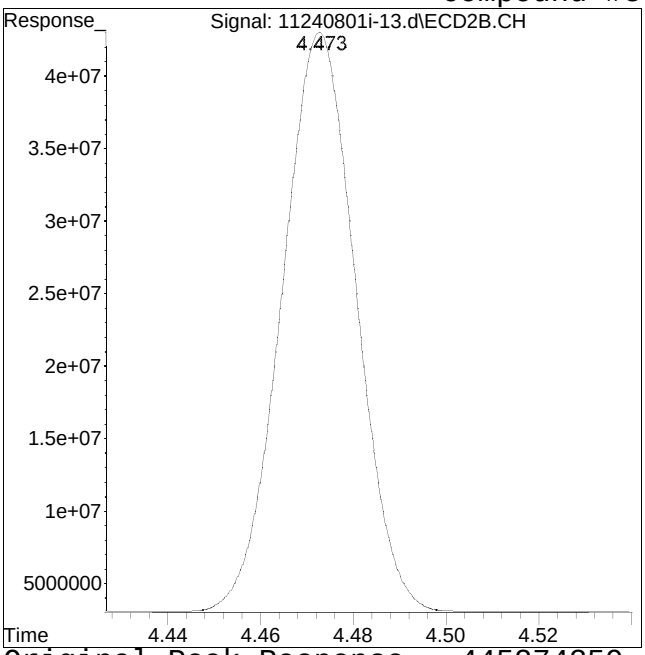


Original Peak Response = 516249123 Manual Peak Response = 519314626 M4
M4 = Poor automated baseline construction.

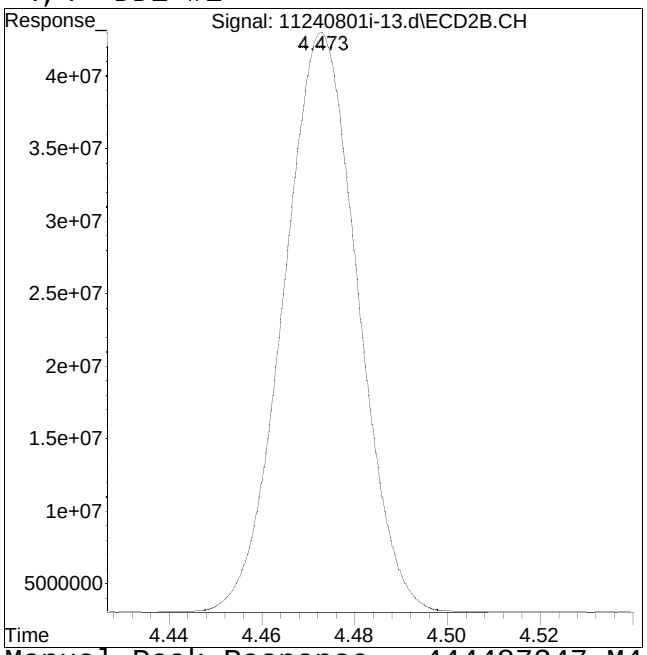
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 445274359



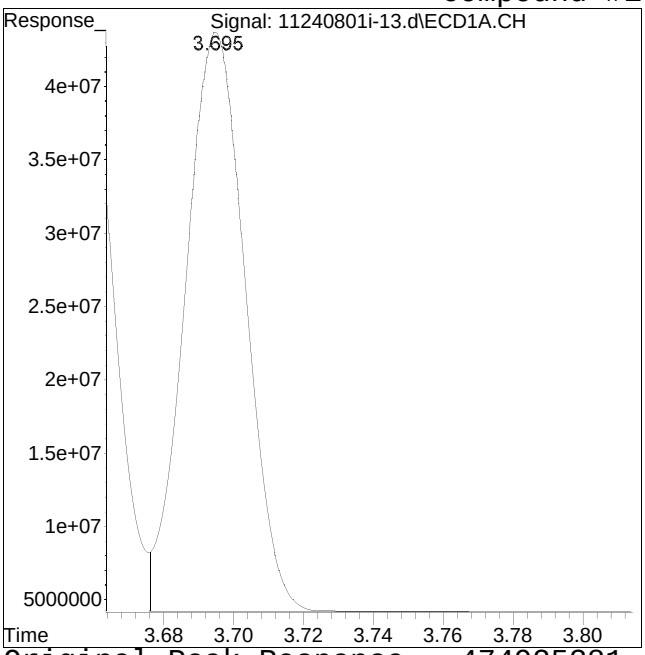
Manual Peak Response = 444487347 M4

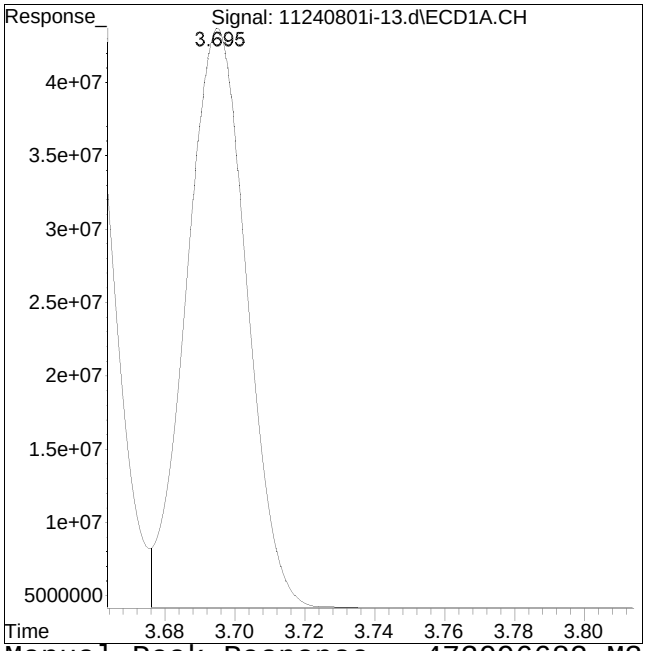
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #16: Endosulfan I



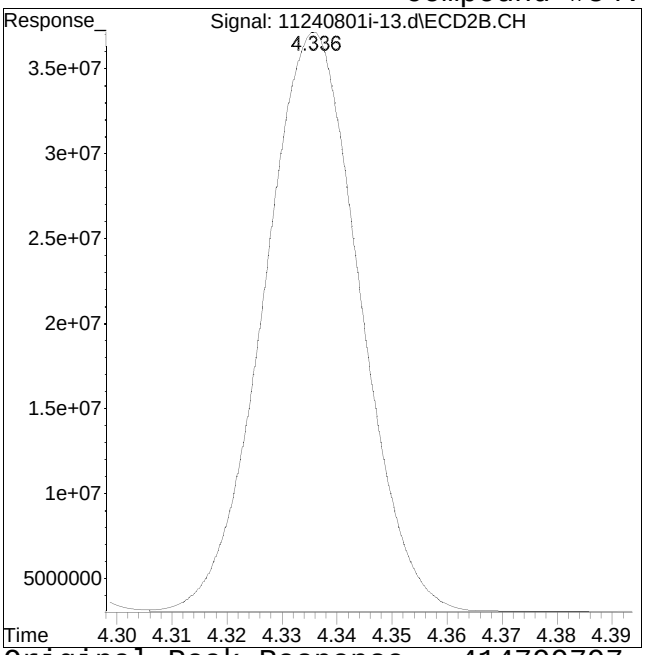


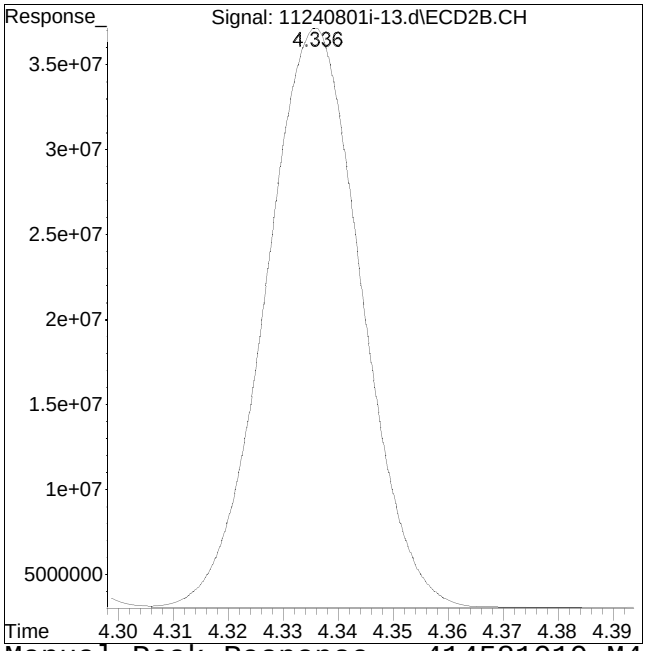
Original Peak Response = 474925381 Manual Peak Response = 473096682 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #54: Endosulfan I #2





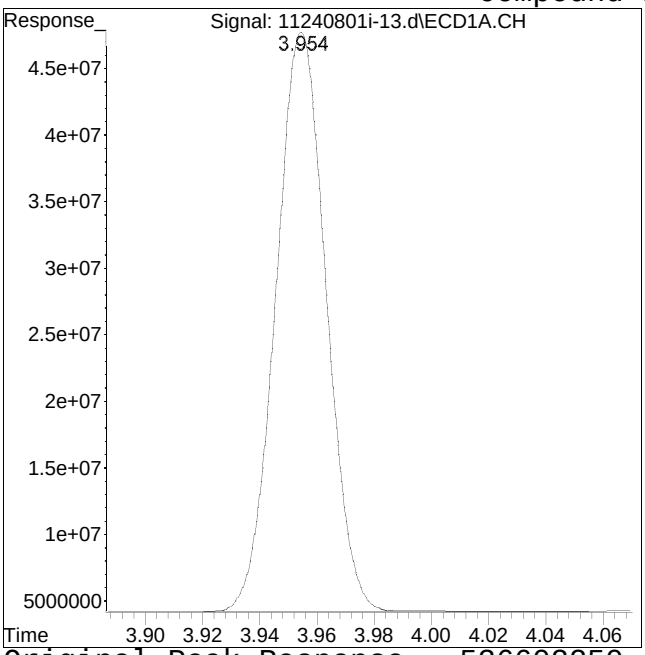
Original Peak Response = 414799797 Manual Peak Response = 414581010 M4
M4 = Poor automated baseline construction.

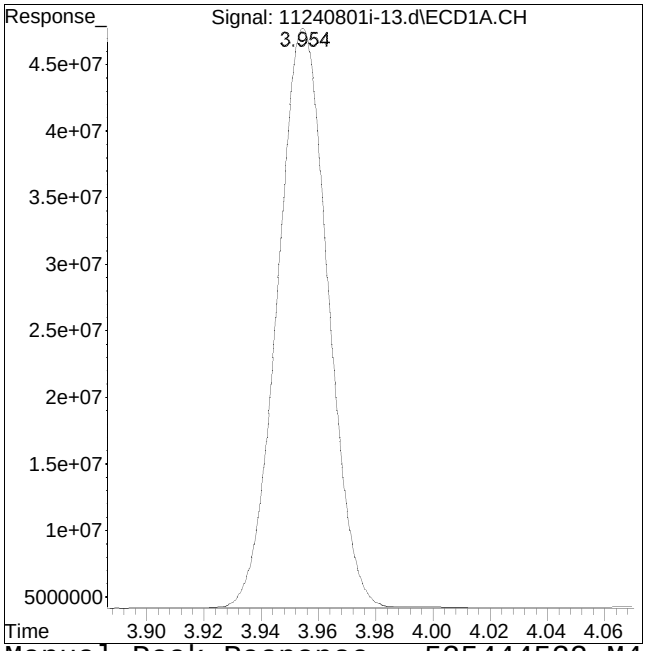
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #17: Dieldrin



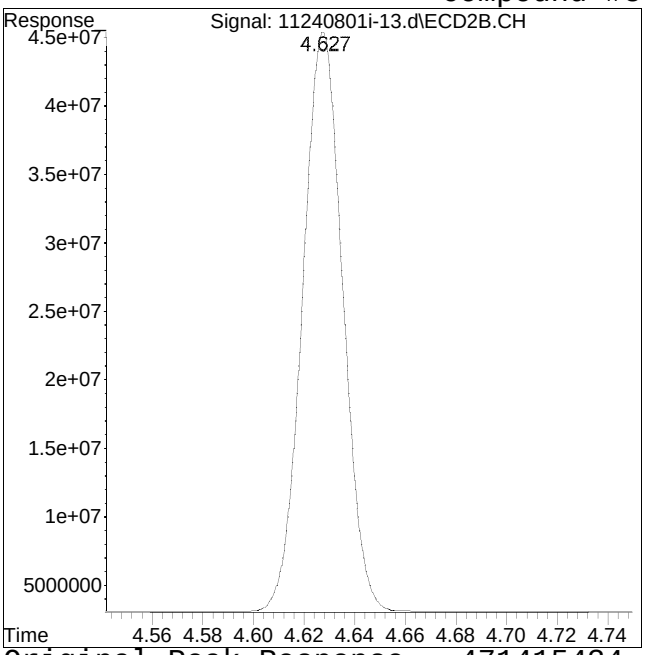


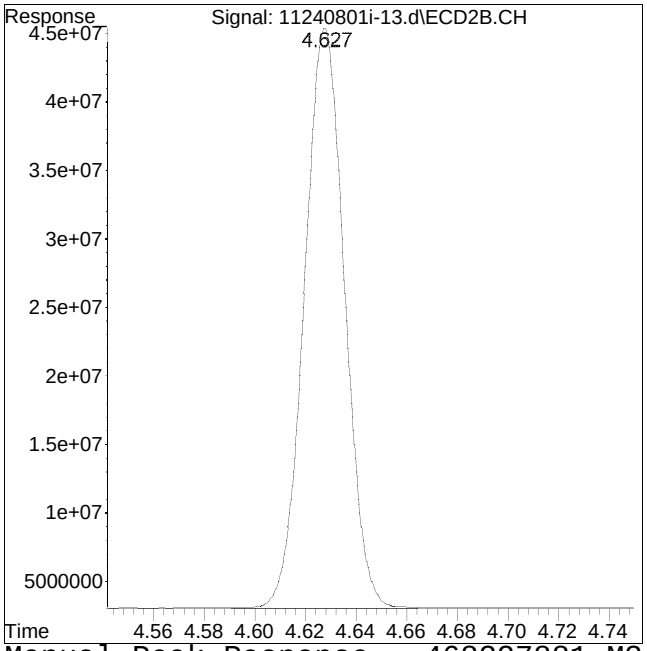
Original Peak Response = 536602250 Manual Peak Response = 535444532 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #55: Dieldrin #2





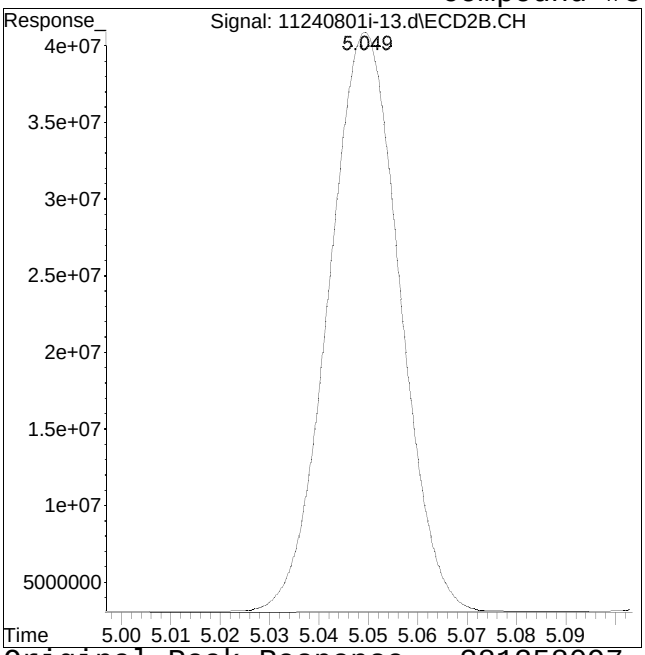
Original Peak Response = 471415434 Manual Peak Response = 468327881 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

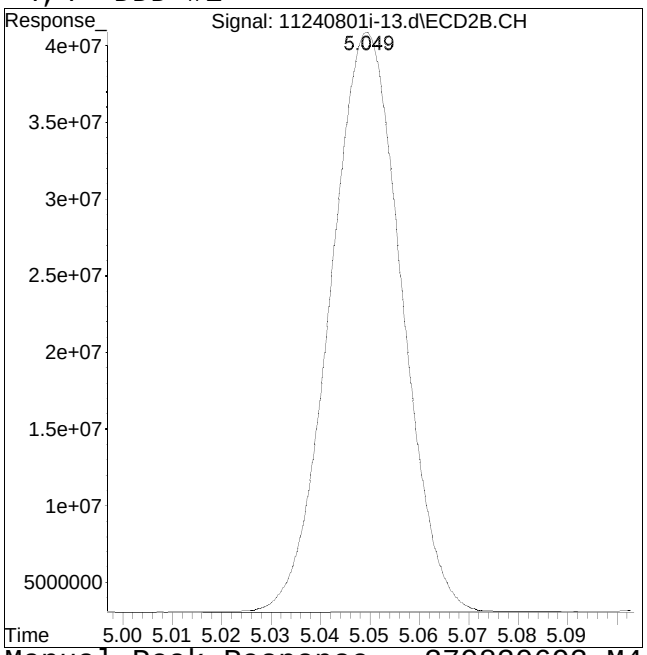
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 381358097



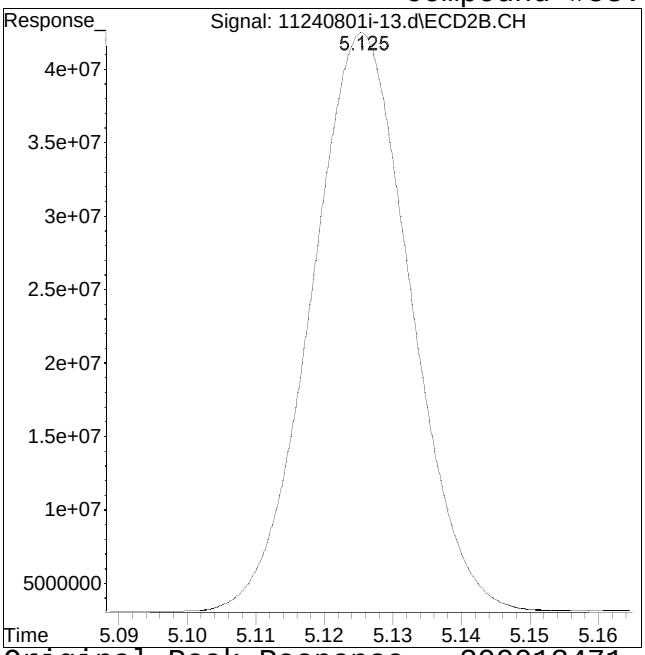
Manual Peak Response = 379830693 M4

M4 = Poor automated baseline construction.

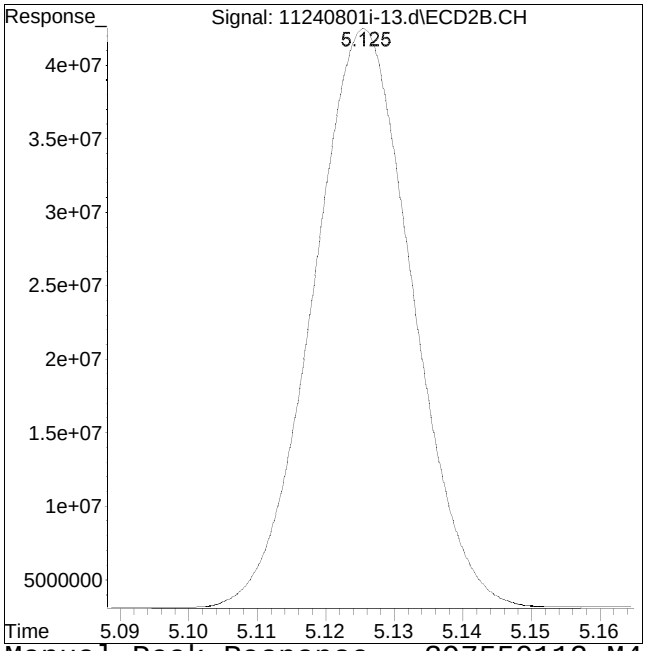
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #58: Endosulfan II #2



Original Peak Response = 399013471



Manual Peak Response = 397550112 M4

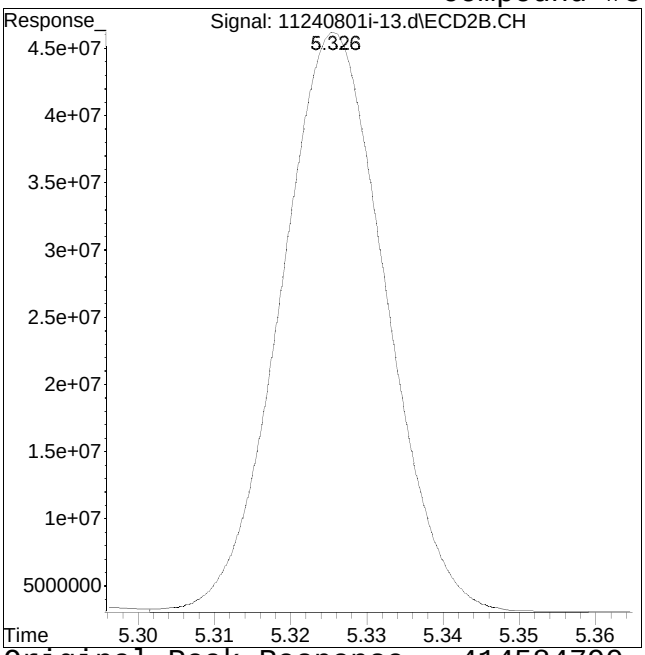
M4 = Poor automated baseline construction.

Manual Integration Report

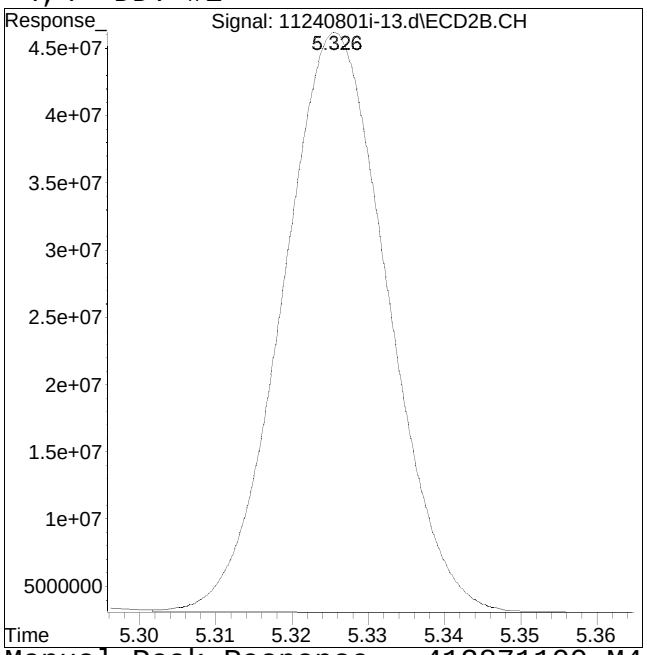
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 414584790



Manual Peak Response = 412871100 M4

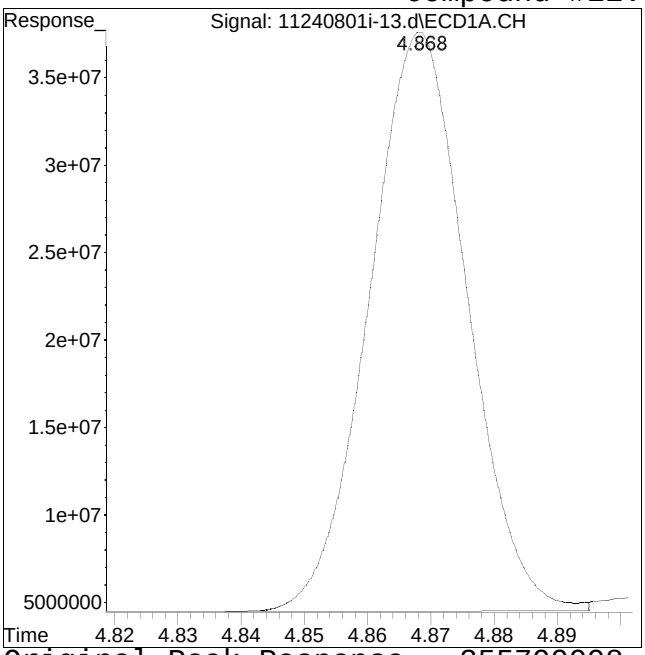
M4 = Poor automated baseline construction.

Manual Integration Report

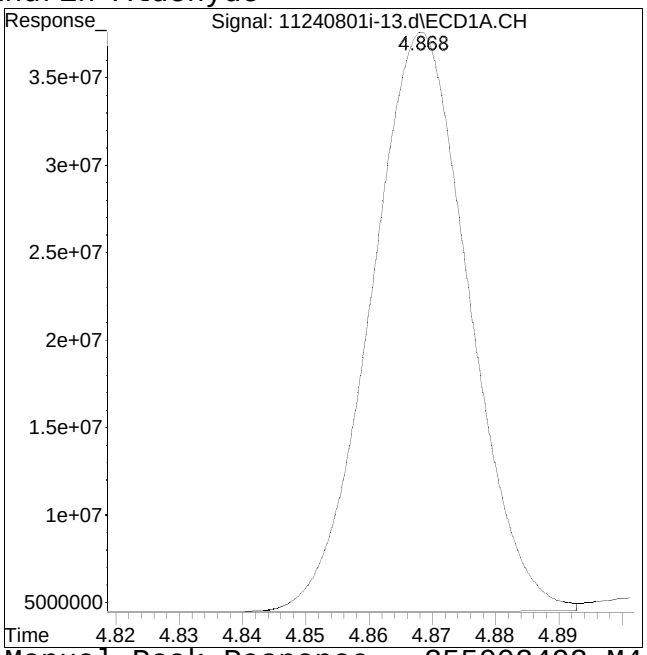
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #22: Endrin Aldehyde



Original Peak Response = 355799998



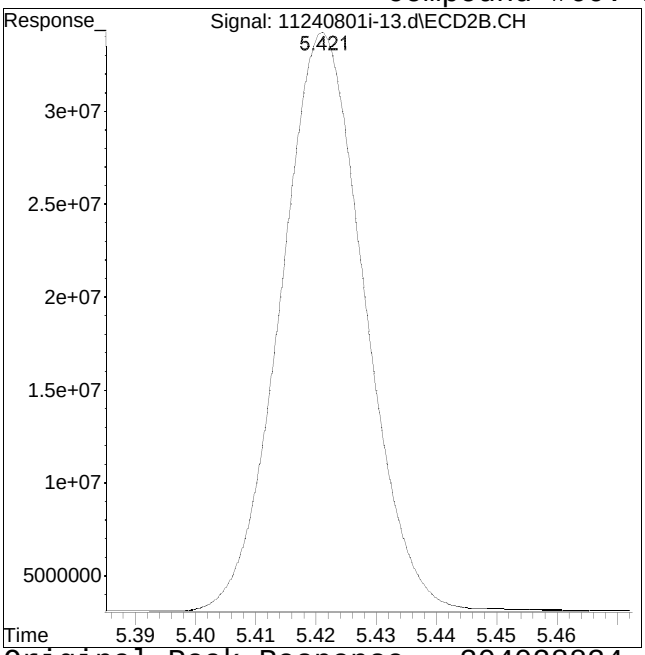
Manual Peak Response = 355002492 M4

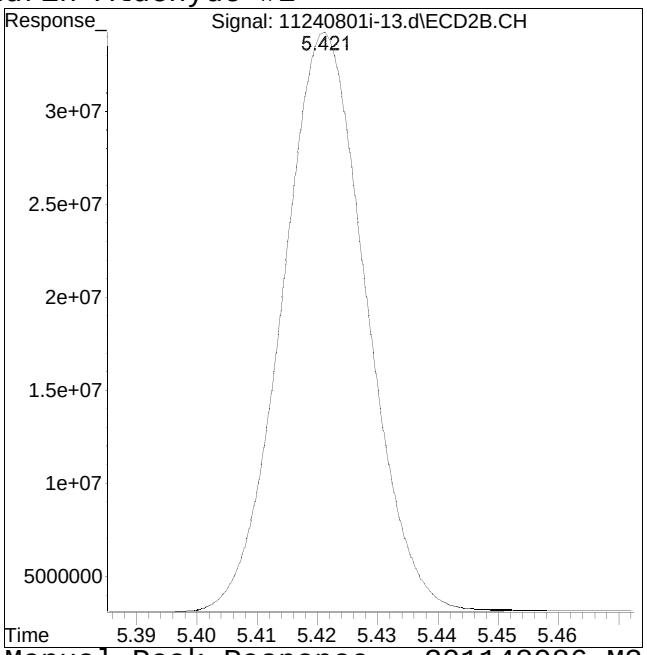
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #60: Endrin Aldehyde #2





Original Peak Response = 304028834 Manual Peak Response = 301148086 M3

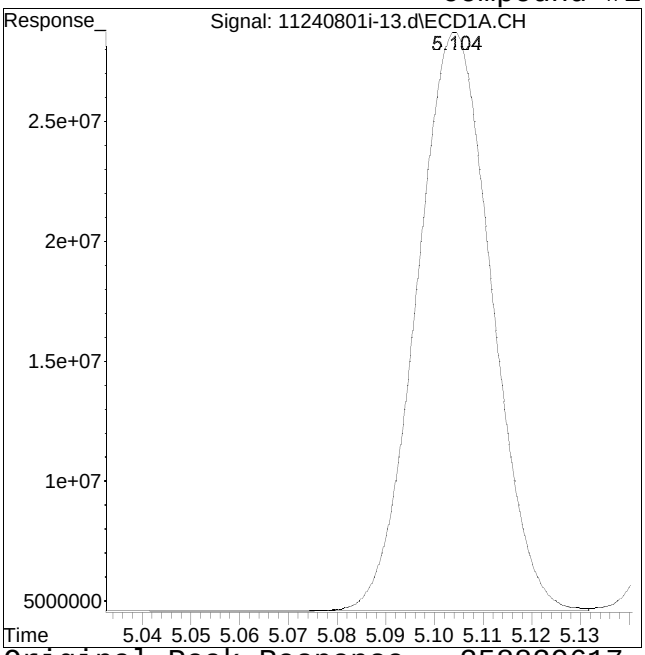
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

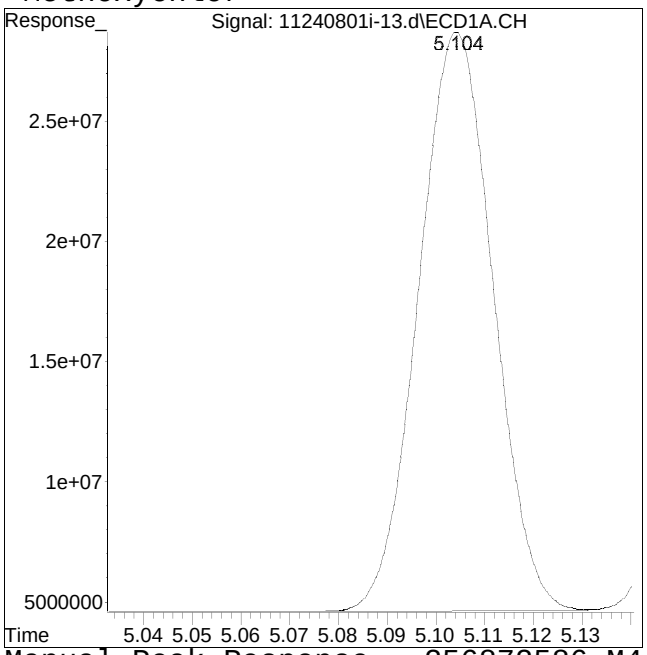
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #23: Methoxychlor



Original Peak Response = 258839617



Manual Peak Response = 256872586 M4

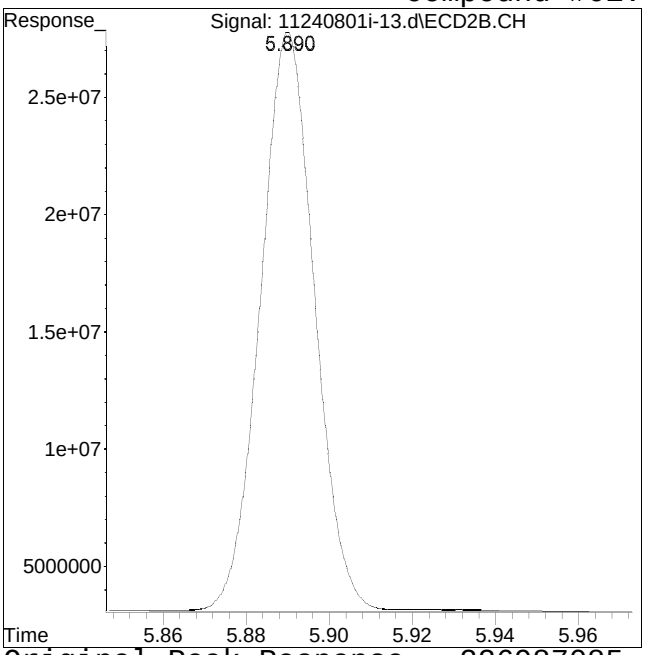
M4 = Poor automated baseline construction.

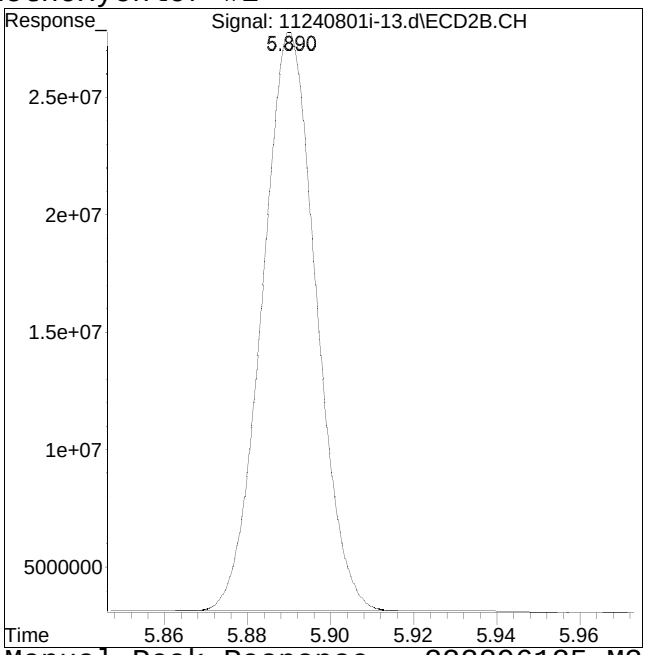
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #61: Methoxychlor #2





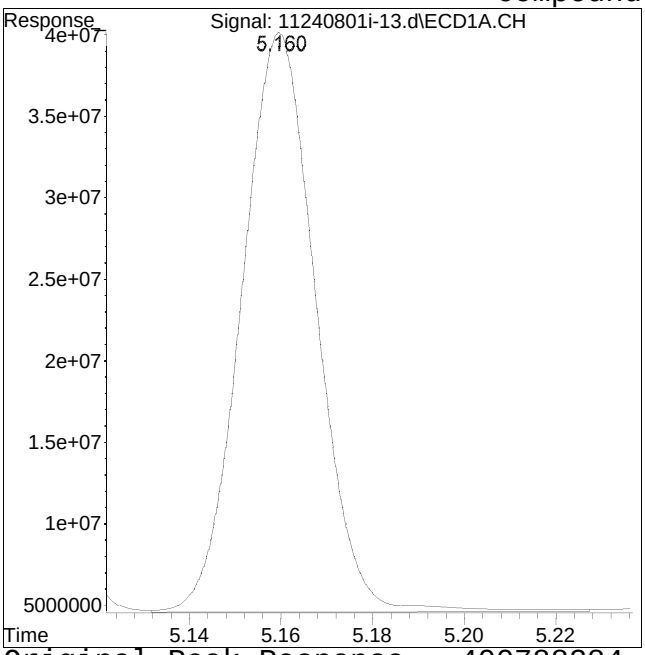
Original Peak Response = 226987085 Manual Peak Response = 222296125 M3

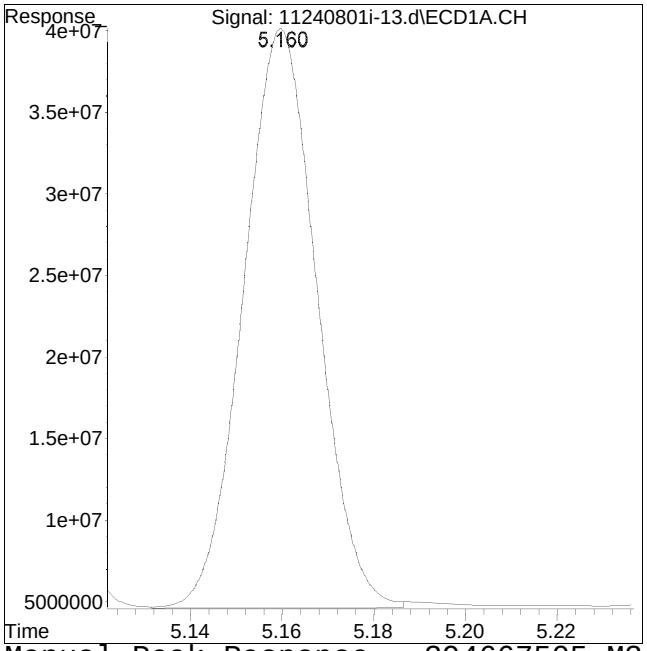
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #24: Mirex





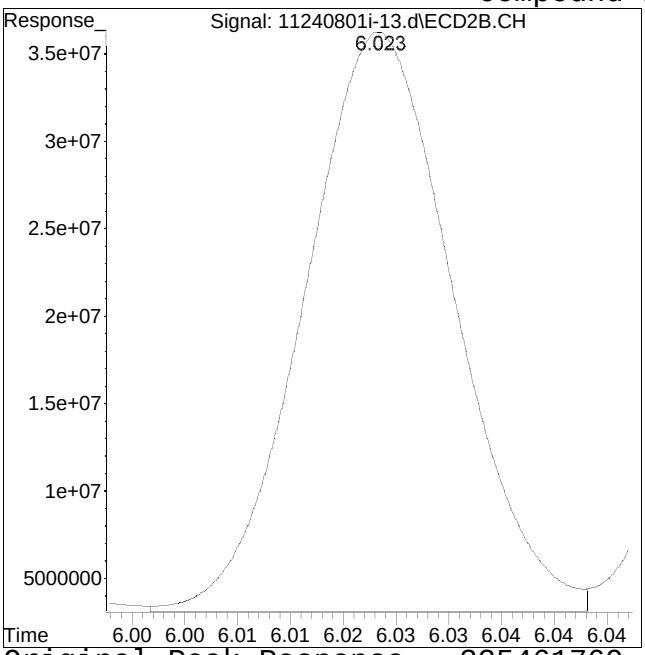
Original Peak Response = 400788384 Manual Peak Response = 394667505 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

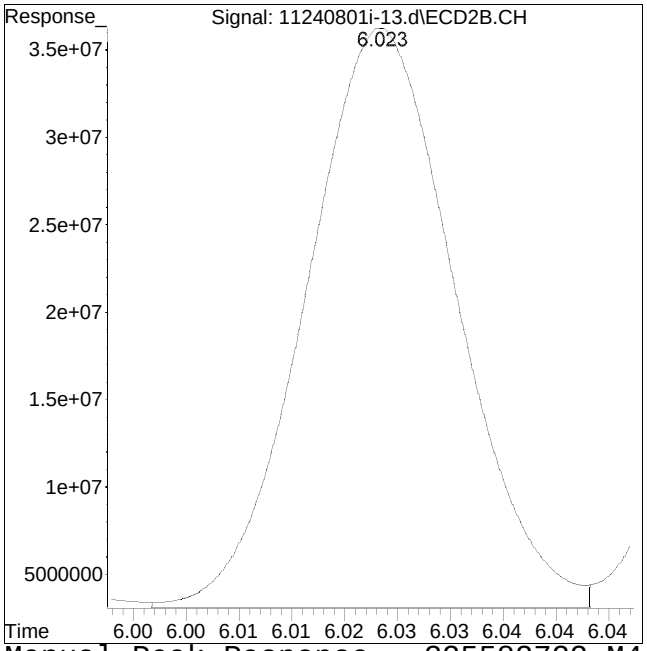
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #62: Mirex #2



Original Peak Response = 325461769



Manual Peak Response = 325582722 M4

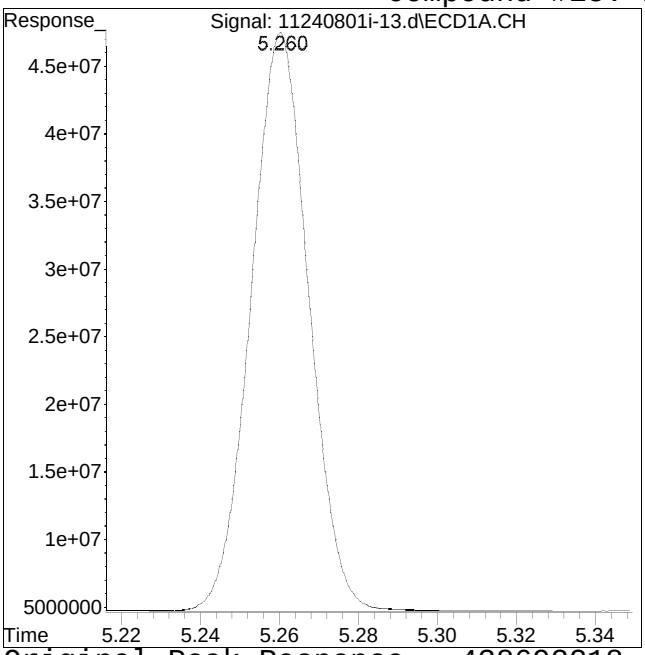
M4 = Poor automated baseline construction.

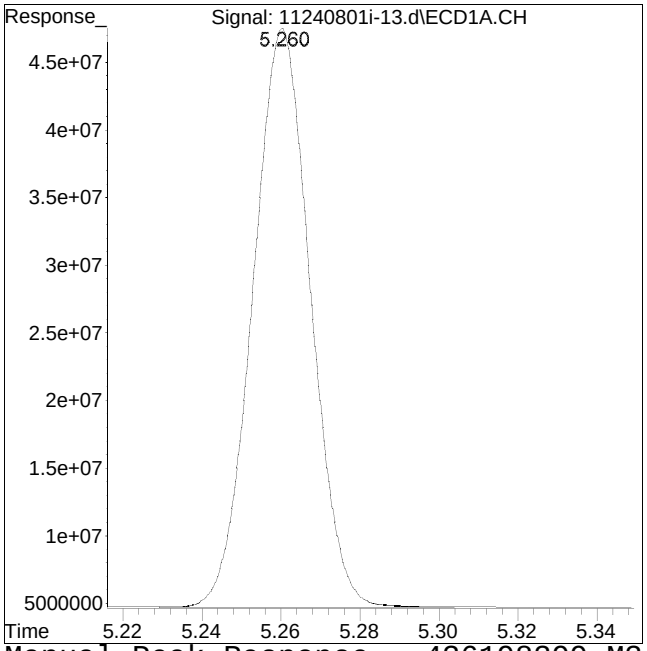
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #25: Endosulfan Sulfate





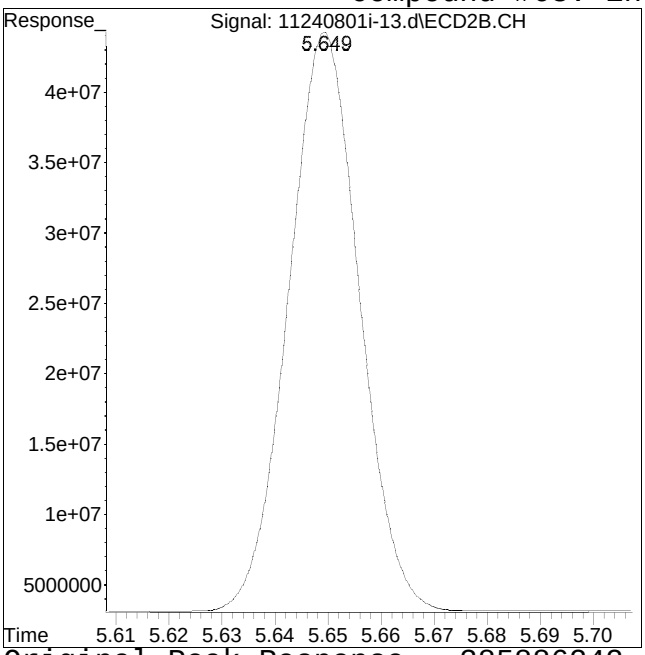
Original Peak Response = 438692218 Manual Peak Response = 436198399 M3

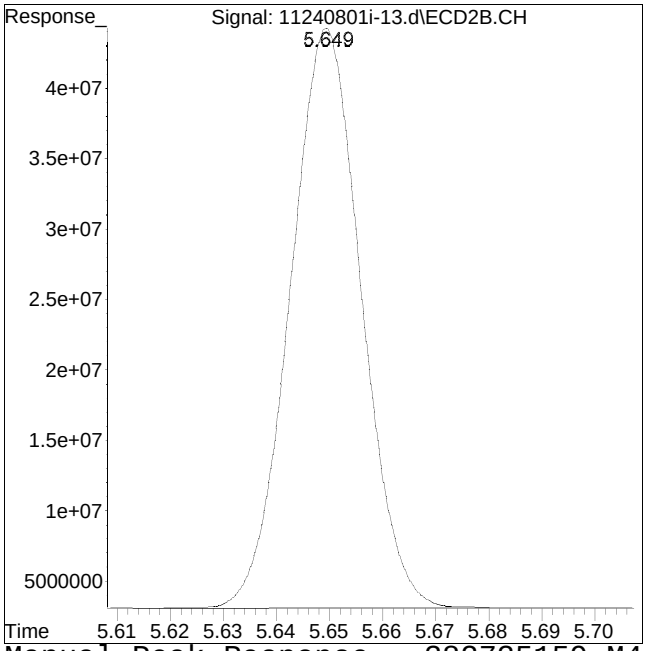
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #63: Endosulfan Sulfate #2



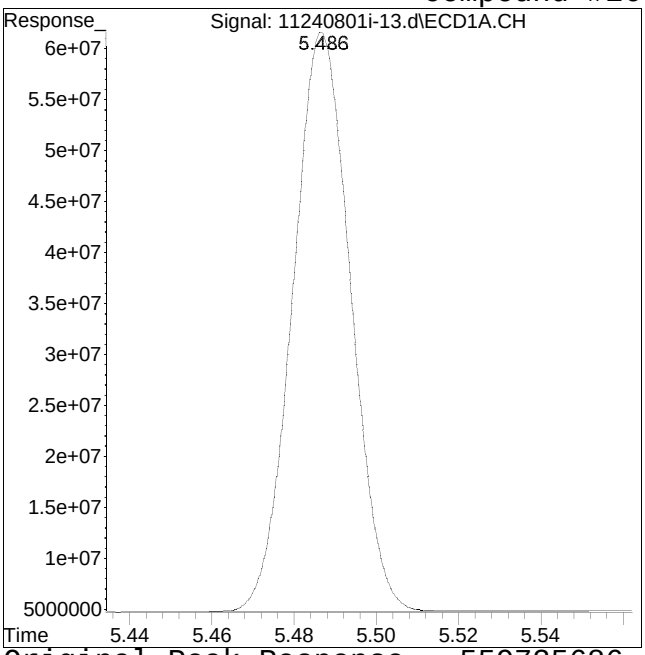


Original Peak Response = 385886242 Manual Peak Response = 382735159 M4
M4 = Poor automated baseline construction.

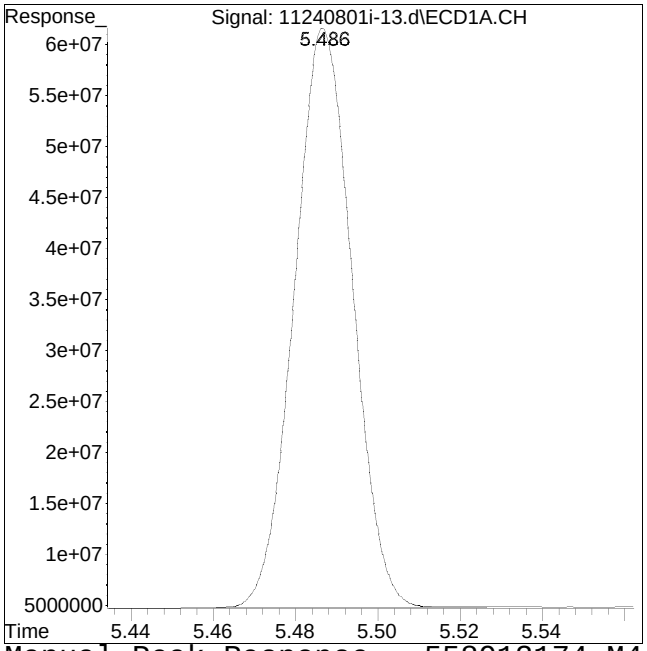
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #26: Endrin Ketone



Original Peak Response = 559735686



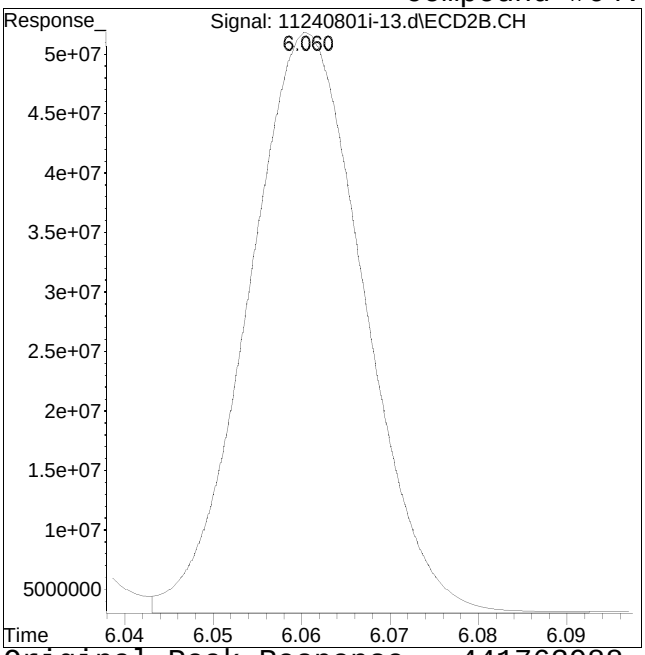
Manual Peak Response = 558913174 M4

M4 = Poor automated baseline construction.

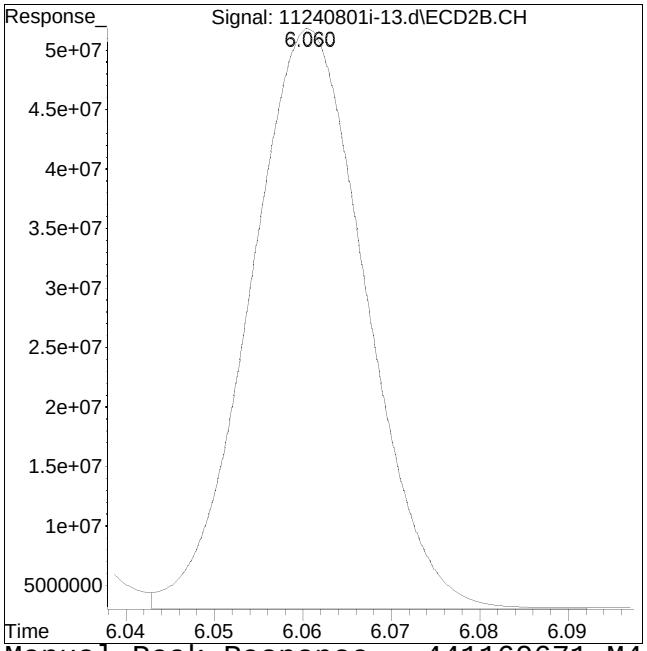
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #64: Endrin Ketone #2



Original Peak Response = 441763988



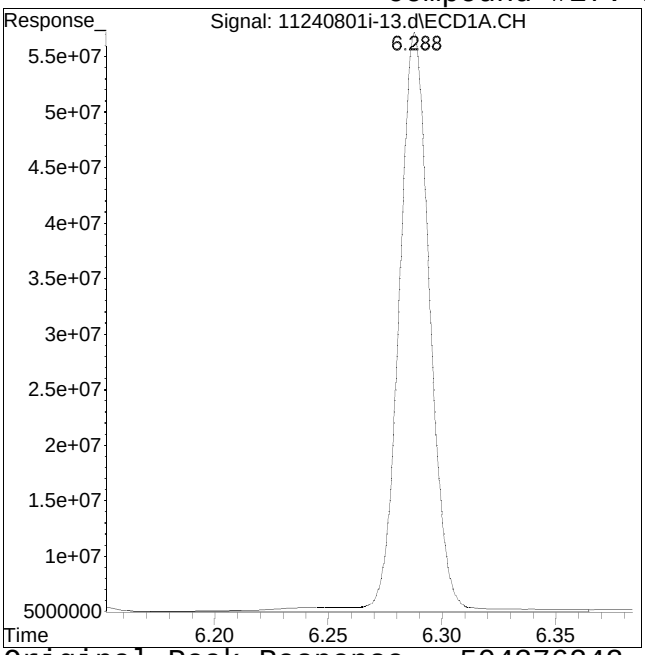
Manual Peak Response = 441160671 M4

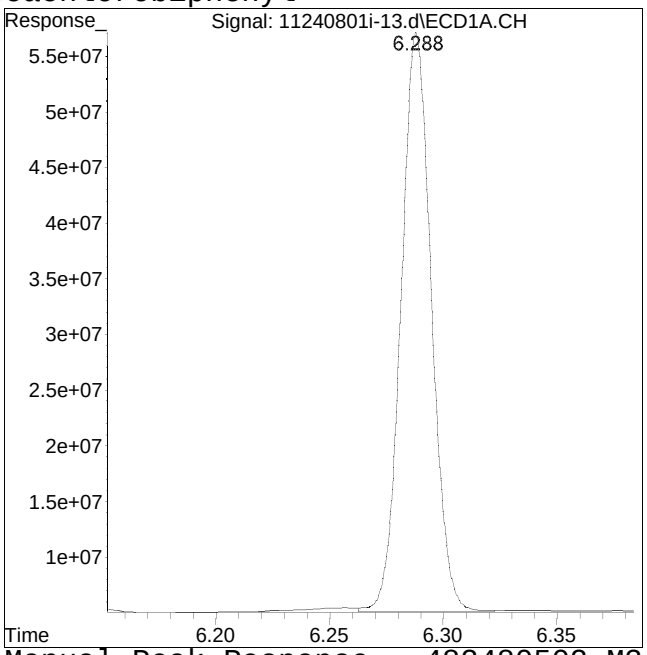
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #27: Decachlorobiphenyl





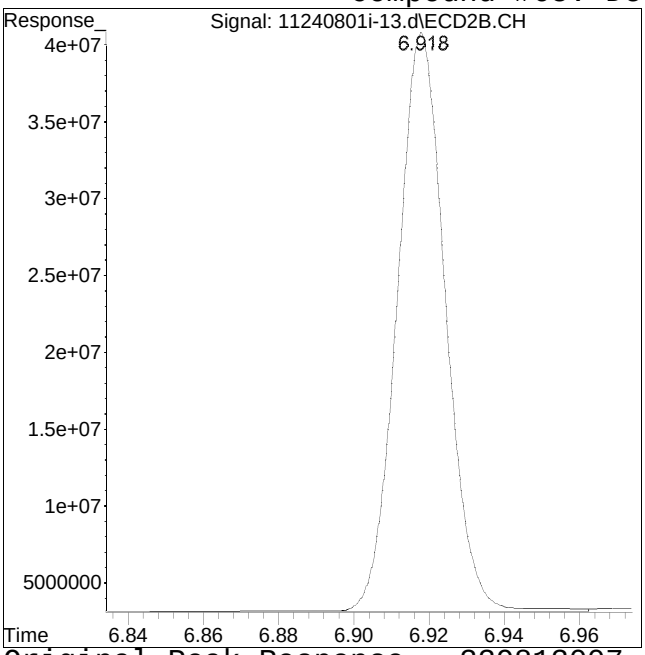
Original Peak Response = 504376242 Manual Peak Response = 482480502 M3

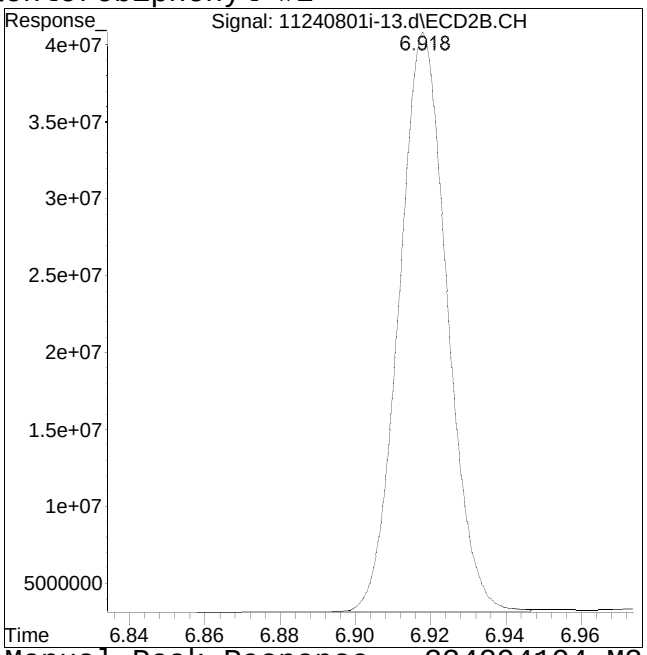
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 339813007 Manual Peak Response = 334294194 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:48
Operator : PEST11:ejl
Sample : il3chlor,42e,,pp 11694 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:13:06 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:12:45 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.386	221.9E6	176.1E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:48
Operator : PEST11:ejl
Sample : il3chlor,42e,,pp 11694 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:13:06 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:12:45 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.817	3348778	3797653	10.230	12.954
30) l1	chlordane-3	2.868	3.423	4387652	4962525	10.696M4	14.420
31) l1	chlordane-4	3.425	4.104	14578311	14683745	10.355	12.473
32) l1	chlordane-5	3.553	4.275	21582458	11409156	9.913	12.528
Sum	chlordane-1			43897199	34853078	NoCal	NoCal D
Average	chlordane-1					10.299	13.094
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

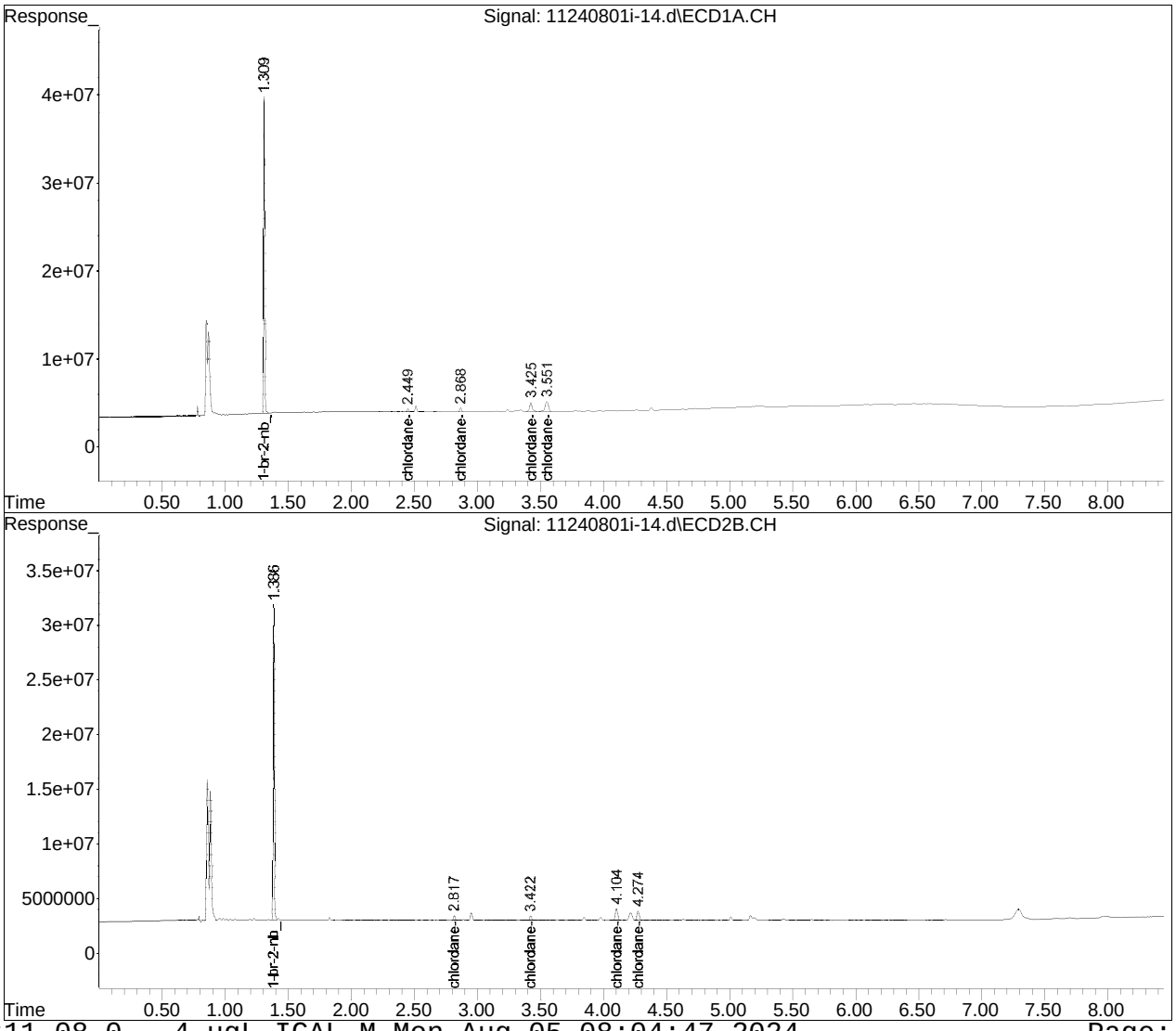
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:48
Operator : PEST11:ejl
Sample : il3chlor,42e,,pp 11694 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:13:06 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:12:45 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

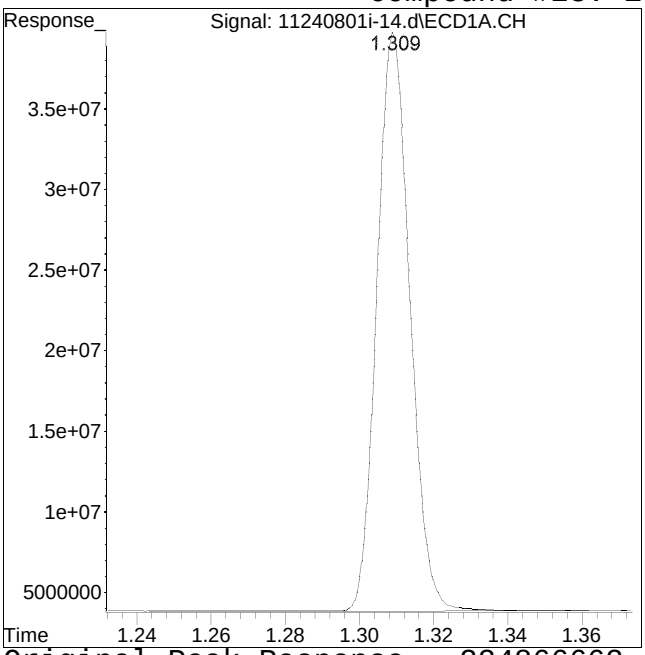


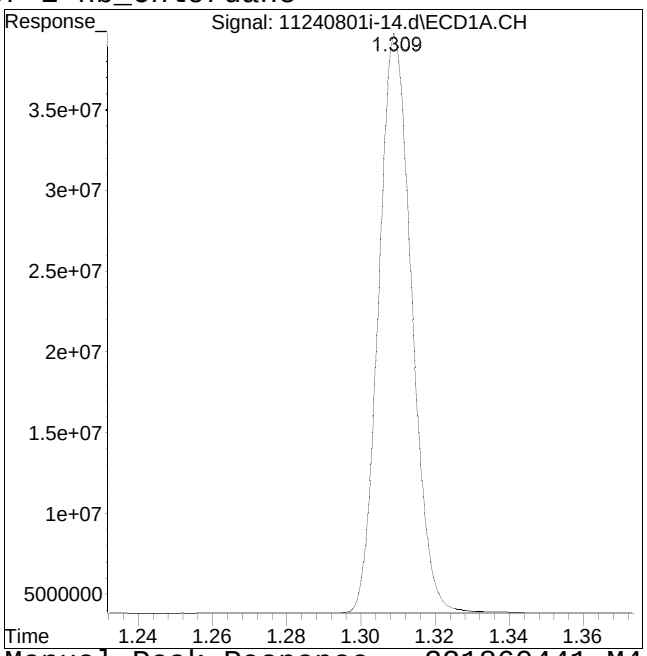
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-14.d
Date Inj'd : 8/1/2024 20:48
Sample : il3chlor,42e,,pp 11694 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:13 pm

Compound #28: 1-br-2-nb_Chlordane





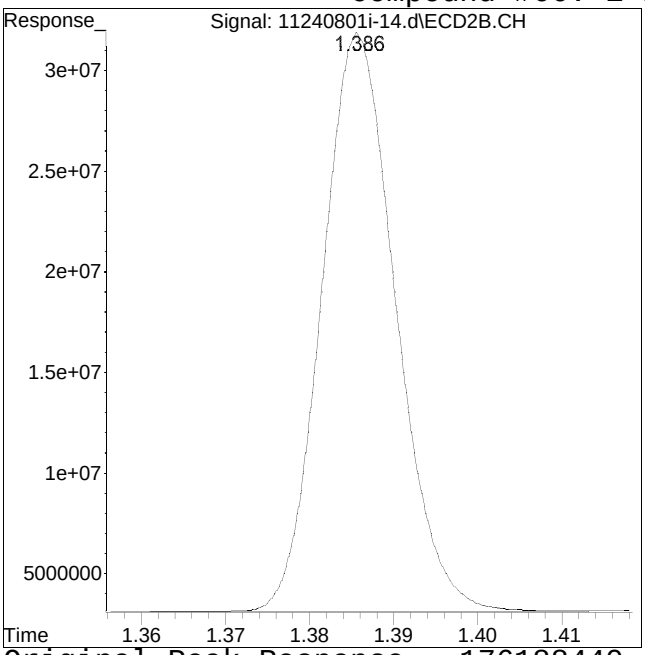
Original Peak Response = 224866662 Manual Peak Response = 221860441 M4
M4 = Poor automated baseline construction.

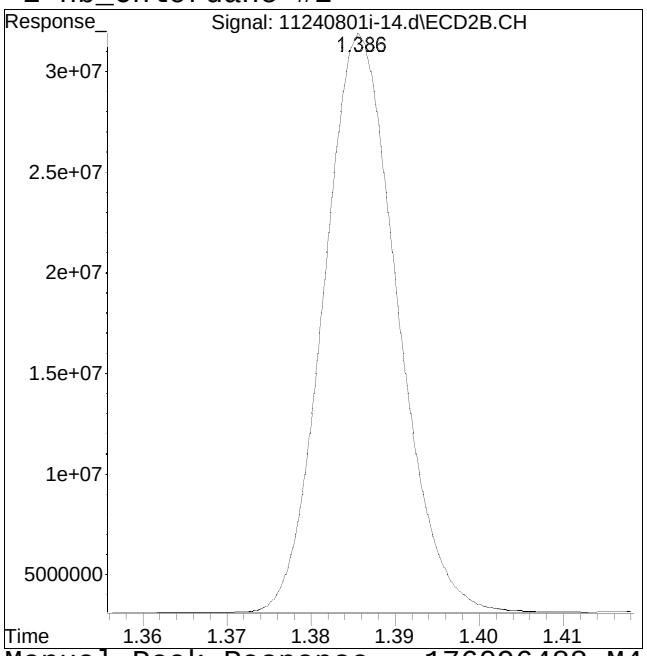
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-14.d
Date Inj'd : 8/1/2024 20:48
Sample : il3chlor,42e,,pp 11694 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:13 pm

Compound #66: 1-br-2-nb_Chlordane #2





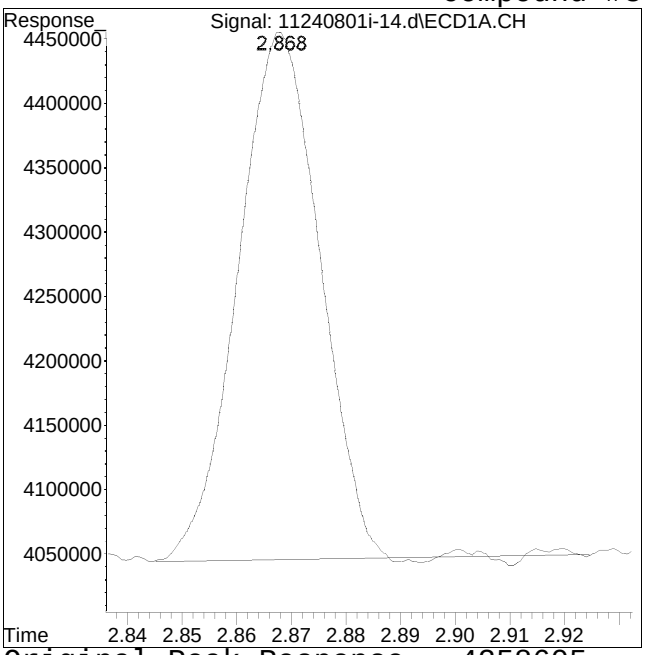
Original Peak Response = 176188440 Manual Peak Response = 176096488 M4
M4 = Poor automated baseline construction.

Manual Integration Report

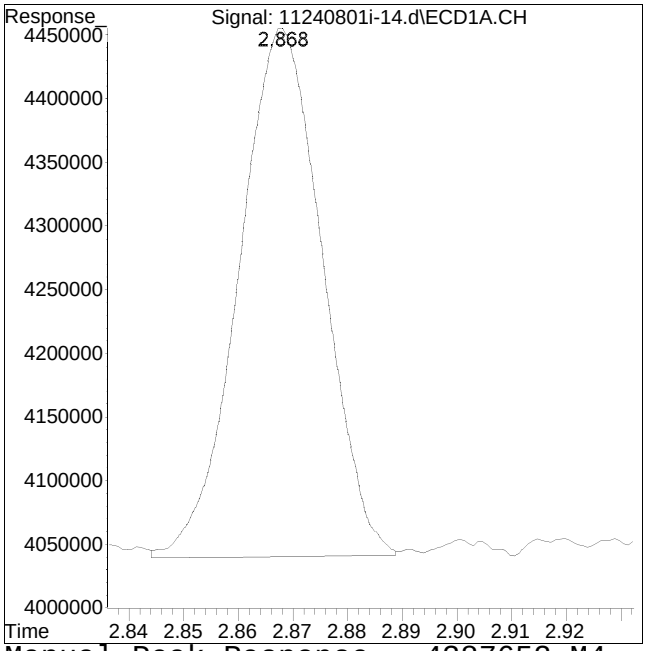
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-14.d
Date Inj'd : 8/1/2024 20:48
Sample : il3chlor,42e,,pp 11694 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:13 pm

Compound #30: chlordane-3



Original Peak Response = 4258605



Manual Peak Response = 4387652 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:00
Operator : PEST11:ejl
Sample : il4chlor,42e,,pp 11693 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:11:50 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:11:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.386	215.7E6	175.4E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:00
Operator : PEST11:ejl
Sample : il4chlor,42e,,pp 11693 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:11:50 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:11:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.818	6270200	7260829	19.646	26.129
30) l1	chlordane-3	2.869	3.422	9042606	9017445	23.300	28.067M4
31) l1	chlordane-4	3.426	4.105	27276142	26803162	19.917	23.521
32) l1	chlordane-5	3.552	4.275	42068468	20966520	19.853	23.849
Sum	chlordane-1			84657416	64047956	NoCal	NoCal D
Average	chlordane-1					20.679	25.392
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

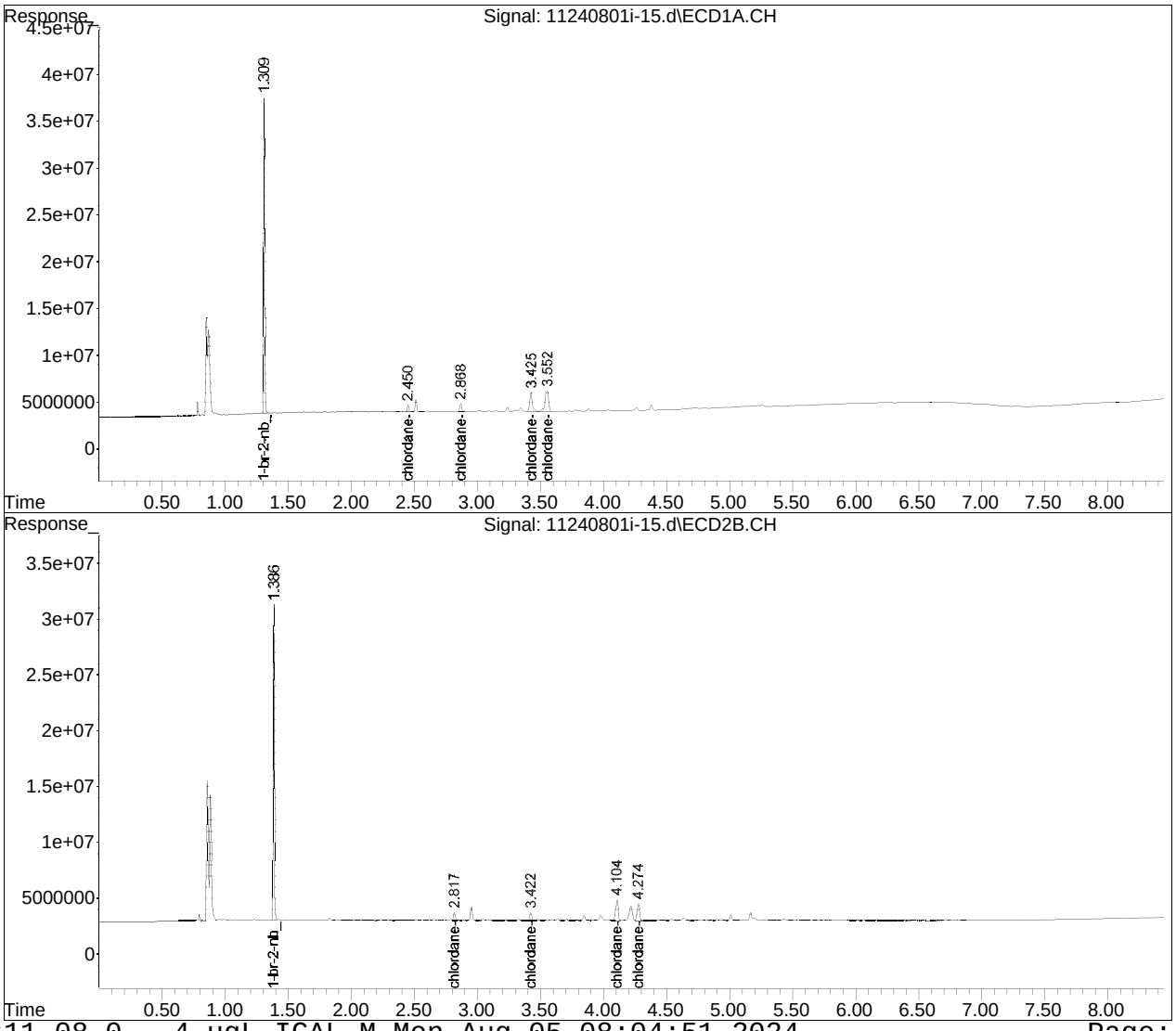
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:00
Operator : PEST11:ejl
Sample : il4chlor,42e,,pp 11693 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:11:50 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:11:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

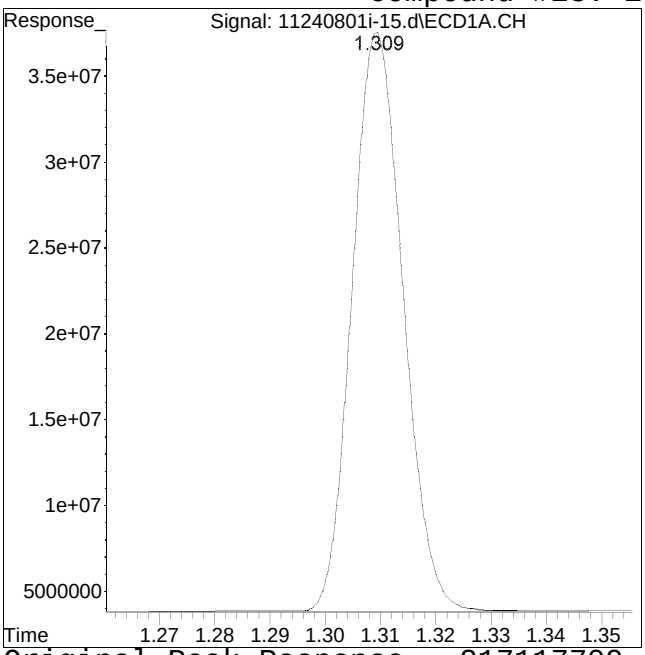


Manual Integration Report

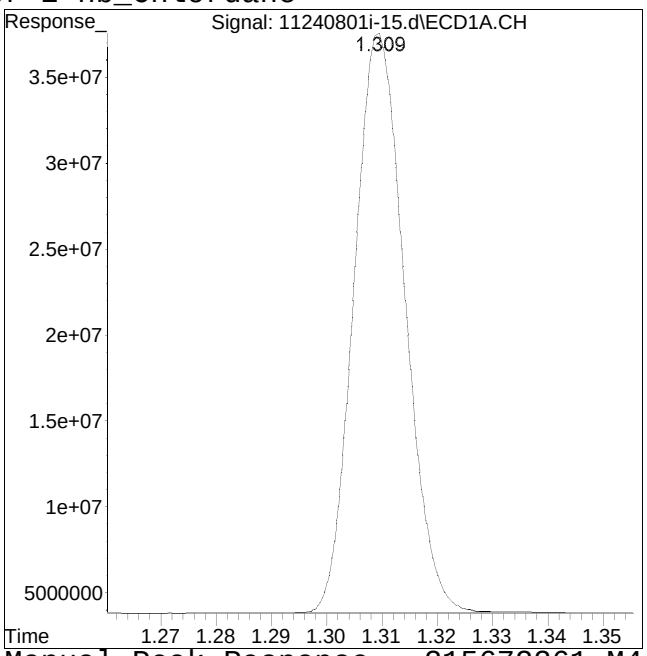
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-15.d
Date Inj'd : 8/1/2024 21:00
Sample : il4chlor,42e,,pp 11693 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:11 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 217117709



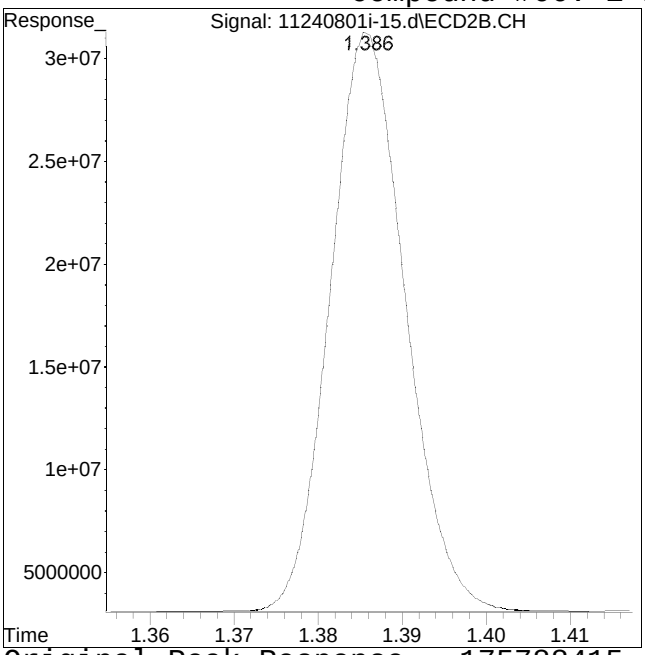
Manual Peak Response = 215672261 M4

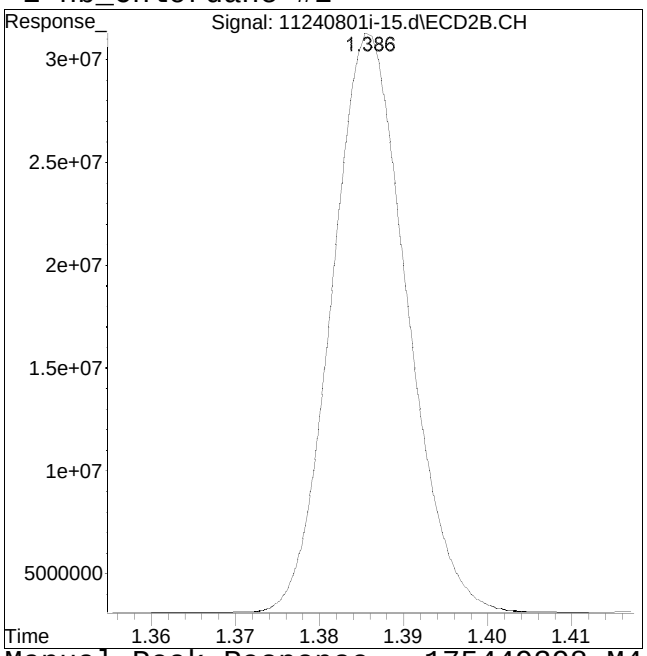
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-15.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:00 Instrument : Pest 11
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 8/2/2024 12:11 pm

Compound #66: 1-br-2-nb_Chlordane #2



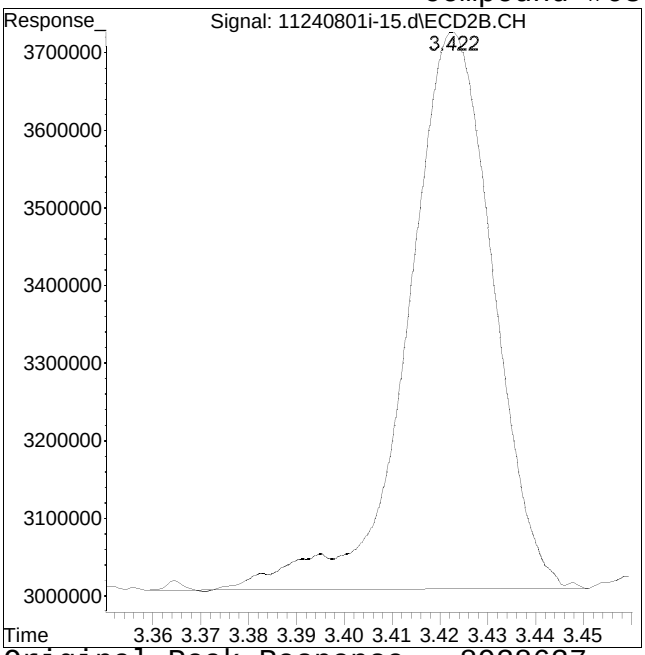


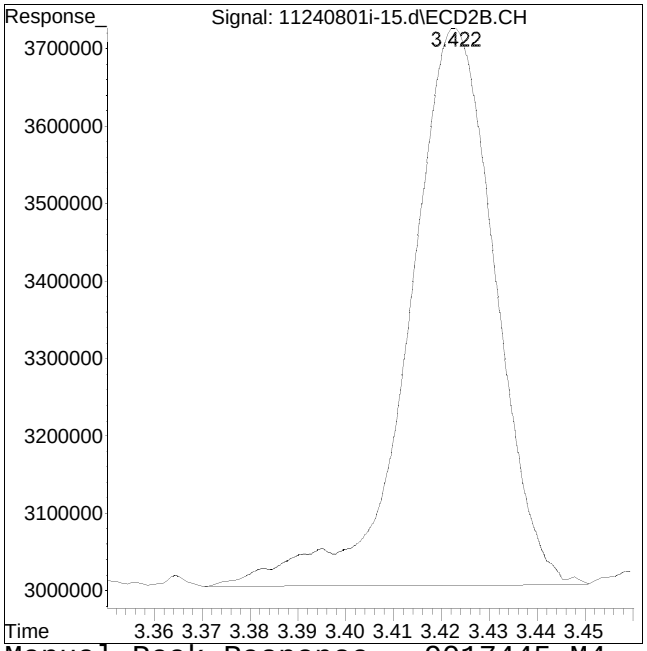
Original Peak Response = 175788415 Manual Peak Response = 175449398 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-15.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:00 Instrument : Pest 11
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 8/2/2024 12:11 pm

Compound #68: chlordane-3 #2





Original Peak Response = 8938637 Manual Peak Response = 9017445 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:12
Operator : PEST11:ejl
Sample : il5chlor,42e,,pp 11692 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:10:36 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:10:28 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.310	1.386	213.1E6	177.4E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:12
Operator : PEST11:ejl
Sample : il5chlor,42e,,pp 11692 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:10:36 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:10:28 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.818	31747496	31529401	100.863	115.730
30) l1	chlordane-3	2.868	3.423	42064633	39044033	112.438M3	126.559
31) l1	chlordane-4	3.426	4.105	133.2E6	117.6E6	98.086	102.618
32) l1	chlordane-5	3.553	4.275	208.7E6	92314998	99.611	104.846
Sum	chlordane-1			415.7E6	280.5E6	NoCal	NoCal D
Average	chlordane-1					102.749	112.438
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

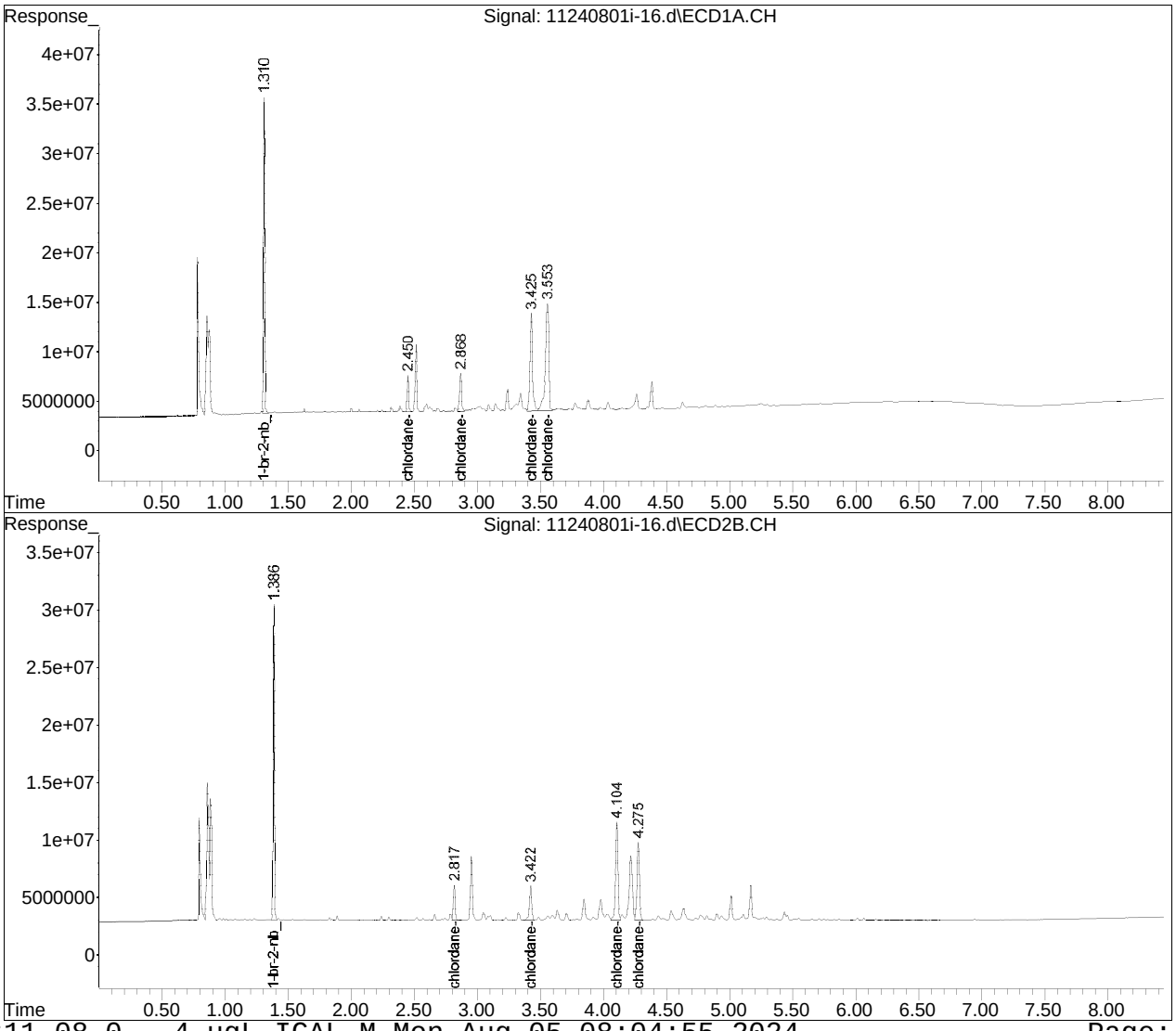
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:12
Operator : PEST11:ejl
Sample : il5chlor,42e,,pp 11692 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:10:36 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:10:28 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

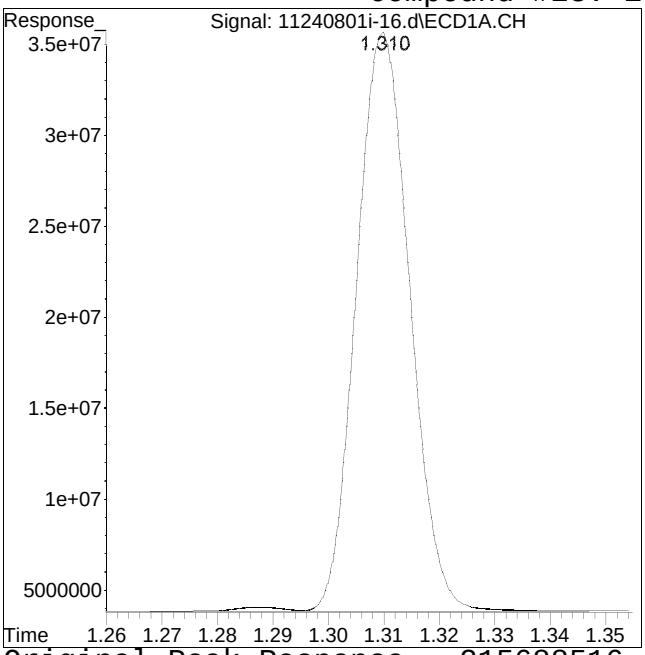


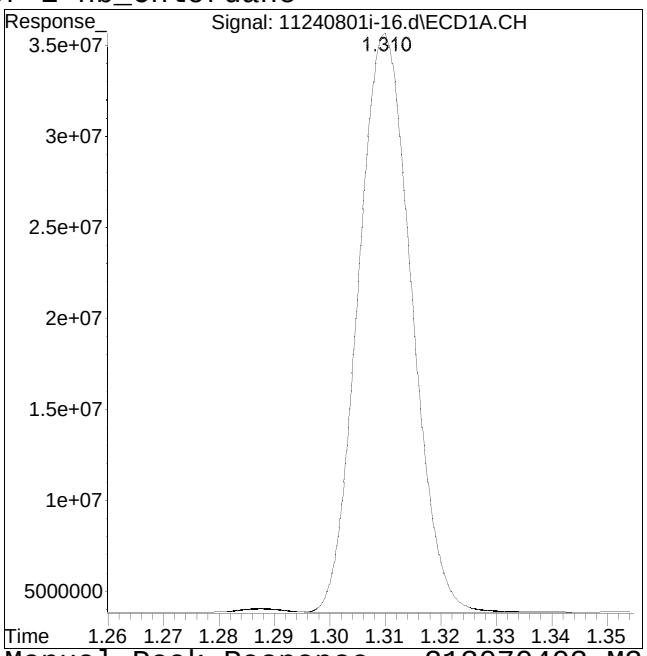
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-16.d
Date Inj'd : 8/1/2024 21:12
Sample : il5chlor,42e,,pp 11692 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:10 pm

Compound #28: 1-br-2-nb_Chlordane





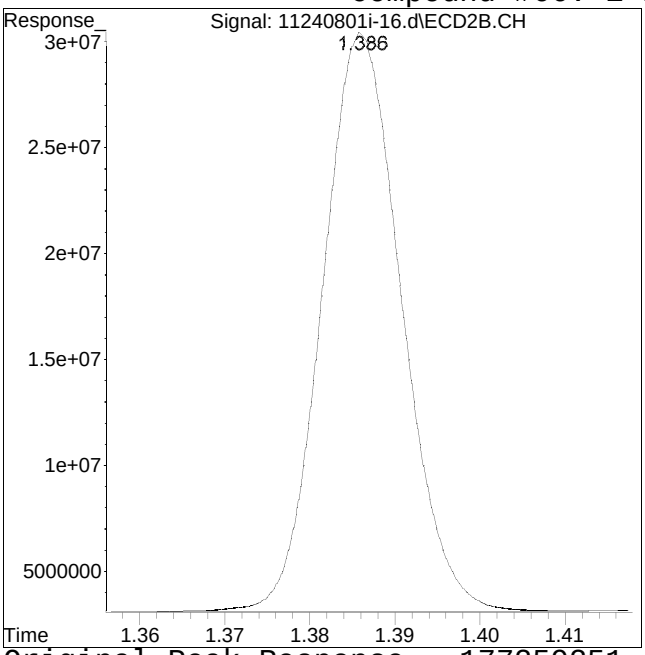
Original Peak Response = 215688516 Manual Peak Response = 213070403 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

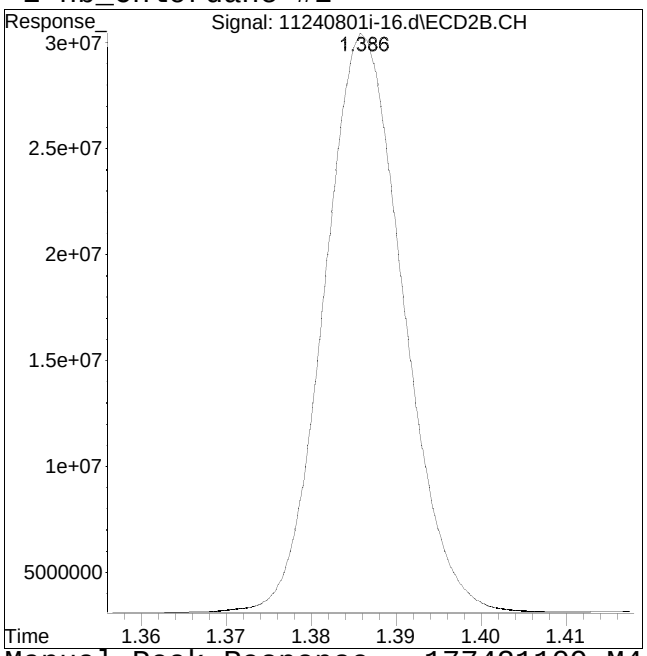
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-16.d
Date Inj'd : 8/1/2024 21:12
Sample : il5chlor,42e,,pp 11692 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:10 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 177259251



Manual Peak Response = 177421109 M4

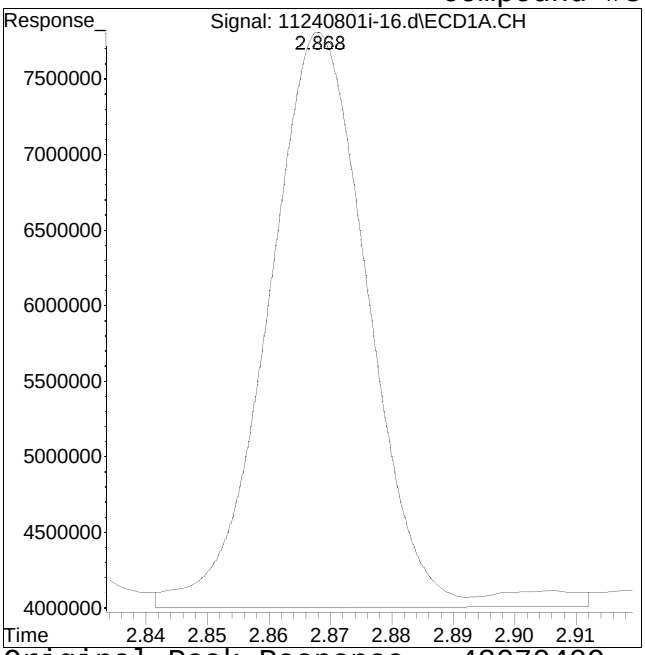
M4 = Poor automated baseline construction.

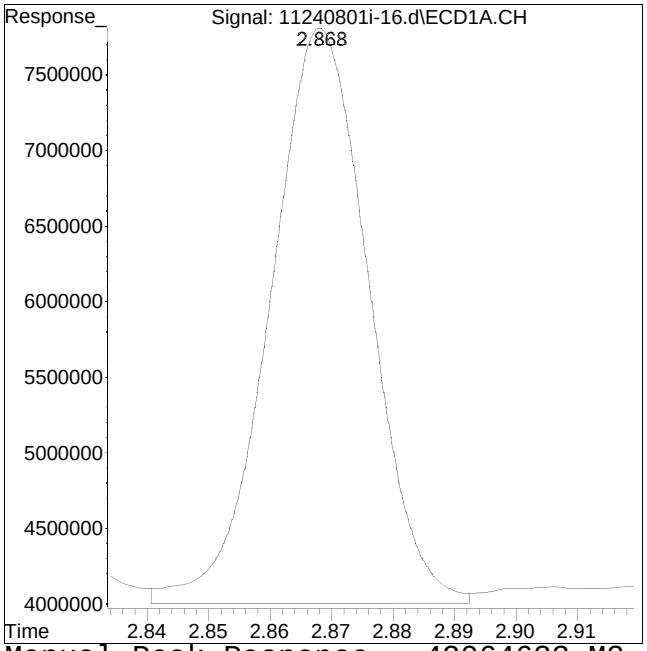
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-16.d
Date Inj'd : 8/1/2024 21:12
Sample : il5chlor,42e,,pp 11692 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:10 pm

Compound #30: chlordane-3





Original Peak Response = 43070499 Manual Peak Response = 42064633 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:24
Operator : PEST11:ejl
Sample : il7chlor,42e,,pp 11691 L0.5
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:09:22 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:09:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.385	218.4E6	184.3E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:24
Operator : PEST11:ejl
Sample : il7chlor,42e,,pp 11691 L0.5
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:09:22 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:09:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.818	161.0E6	143.9E6	498.684	511.438
30) l1	chlordane-3	2.868	3.423	200.4E6	172.2E6	530.433	551.110
31) l1	chlordane-4	3.425	4.105	700.4E6	600.2E6	504.213	505.425
32) l1	chlordane-5	3.551	4.275	1089.8E6	462.7E6	510.023M3	507.838
Sum	chlordane-1			2151.6E6	1379.0E6	NoCal	NoCal D
Average	chlordane-1					510.838	518.953
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

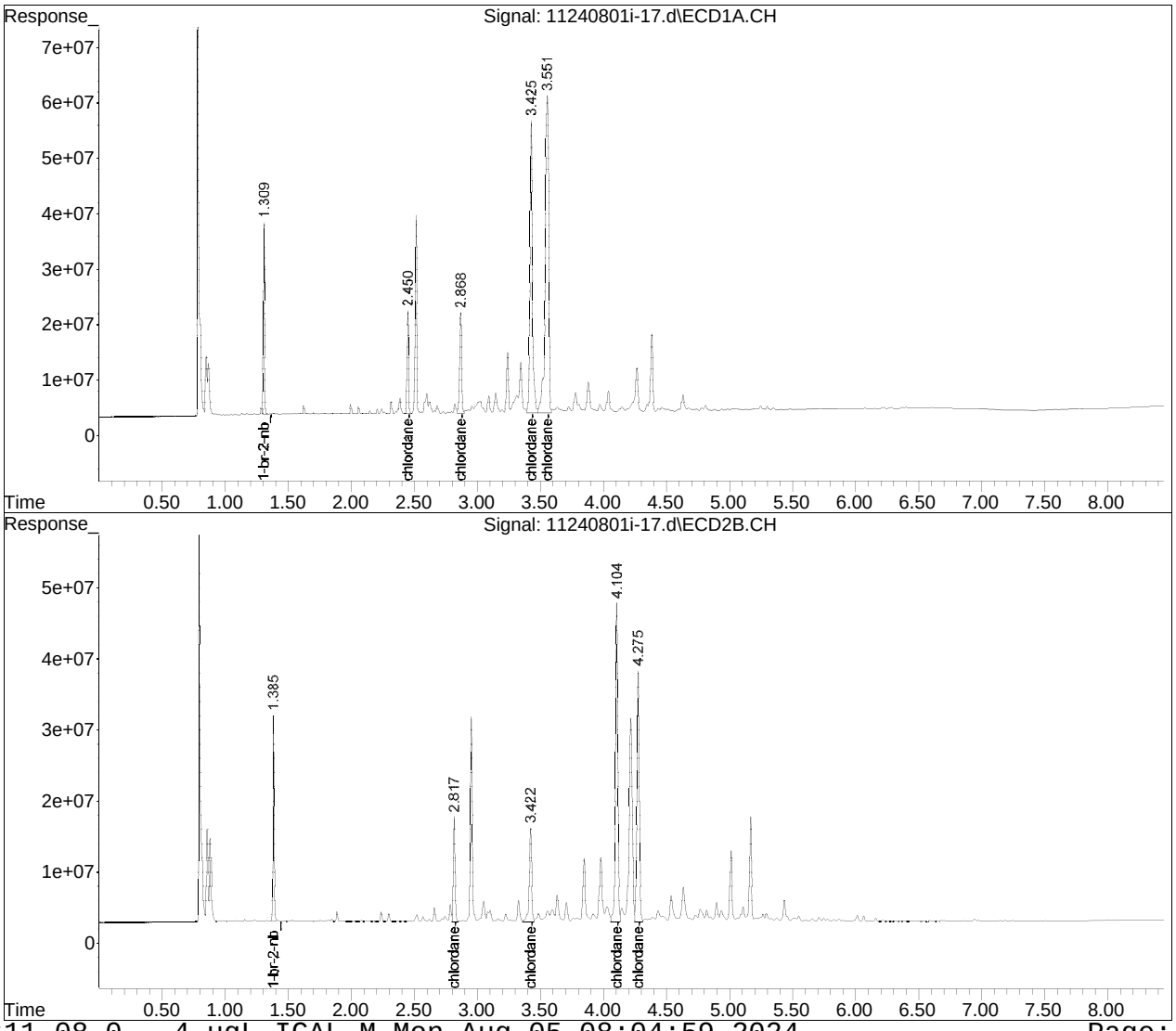
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:24
Operator : PEST11:ejl
Sample : il7chlor,42e,,pp 11691 L0.5
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:09:22 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:09:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

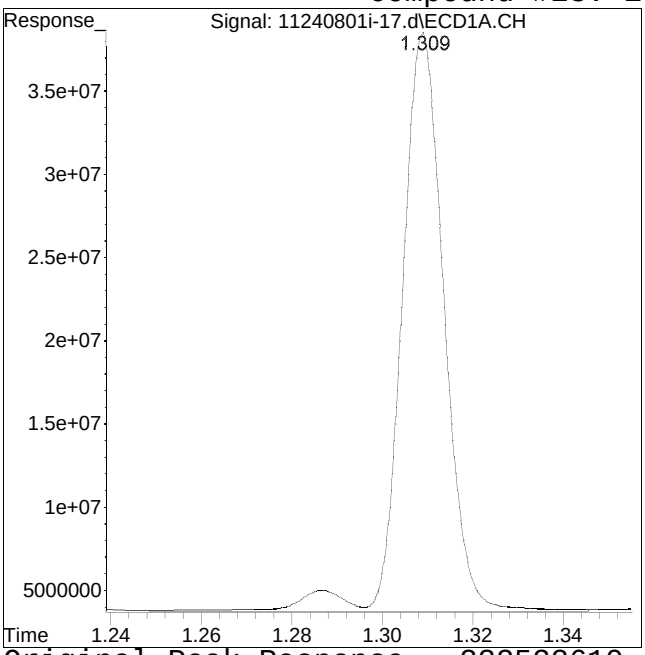
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

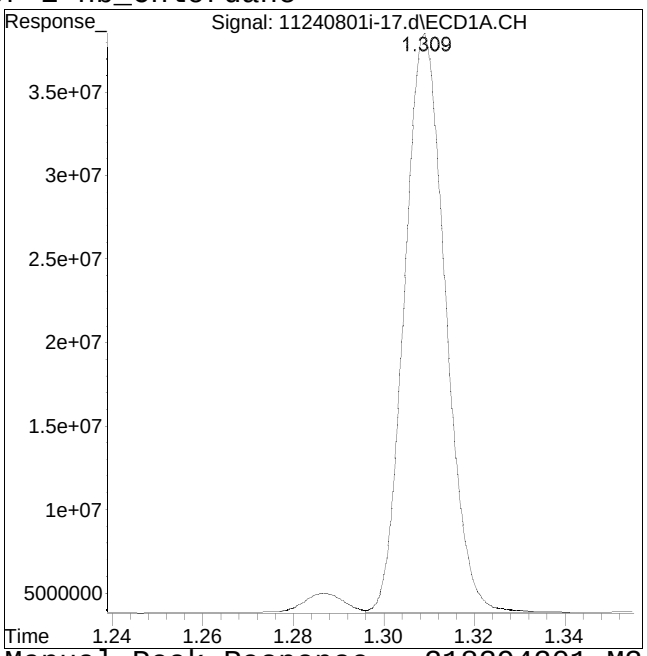


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-17.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:24 Instrument : Pest 11
Sample : il7chlor,42e,,pp 11691 L0.Quant Date : 8/2/2024 12:09 pm

Compound #28: 1-br-2-nb_Chlordane





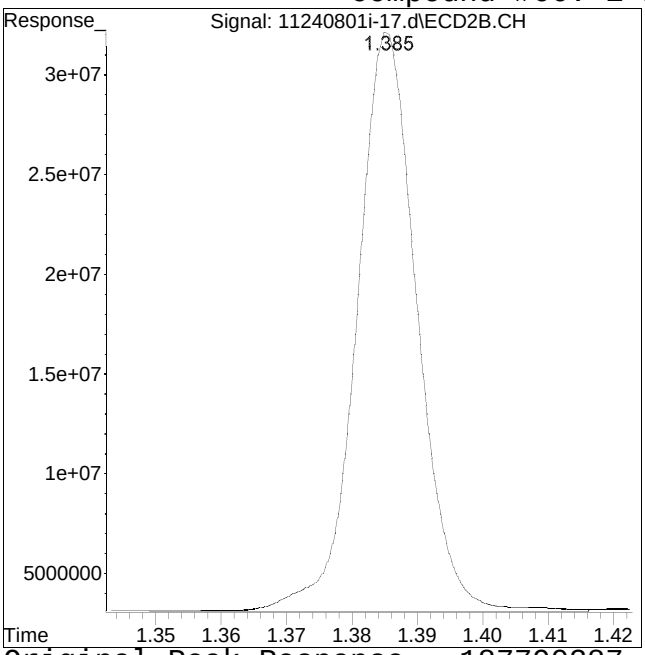
Original Peak Response = 232522610 Manual Peak Response = 218394201 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

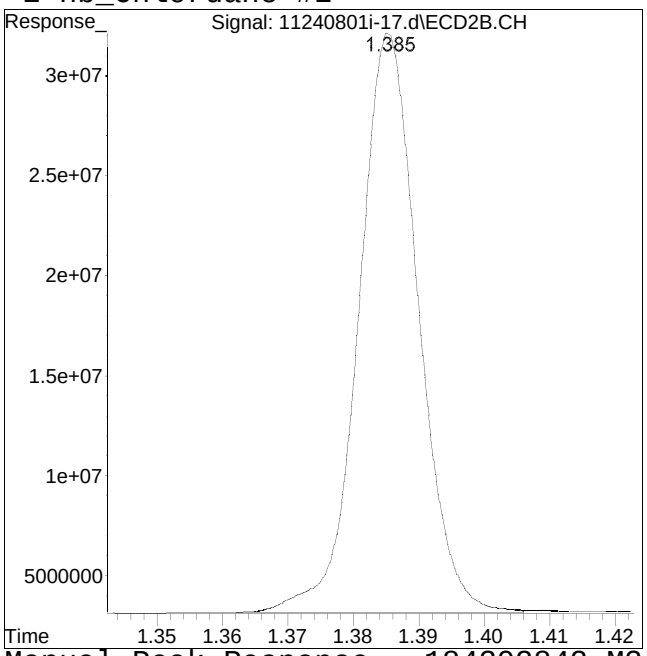
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-17.d
Date Inj'd : 8/1/2024 21:24
Sample : il7chlor,42e,,pp 11691 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:09 pm

Compound #66: 1-br-2-nb_Chlordane #2





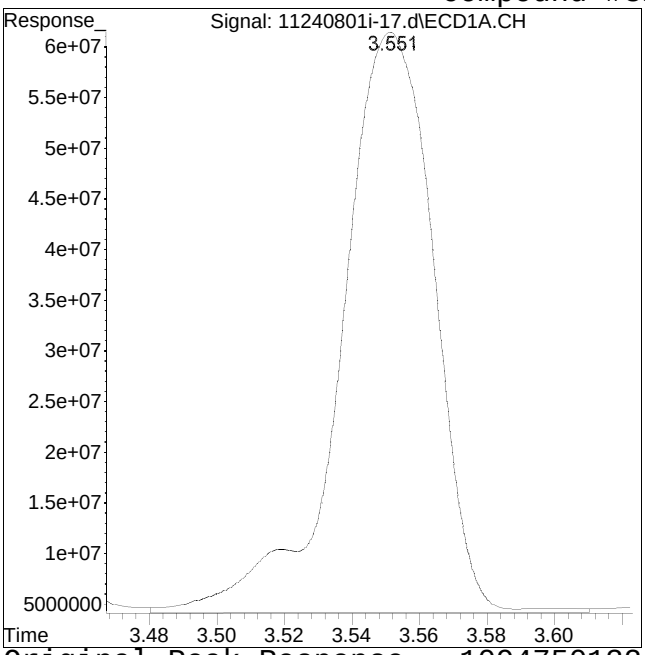
Original Peak Response = 187790387 Manual Peak Response = 184302842 M3

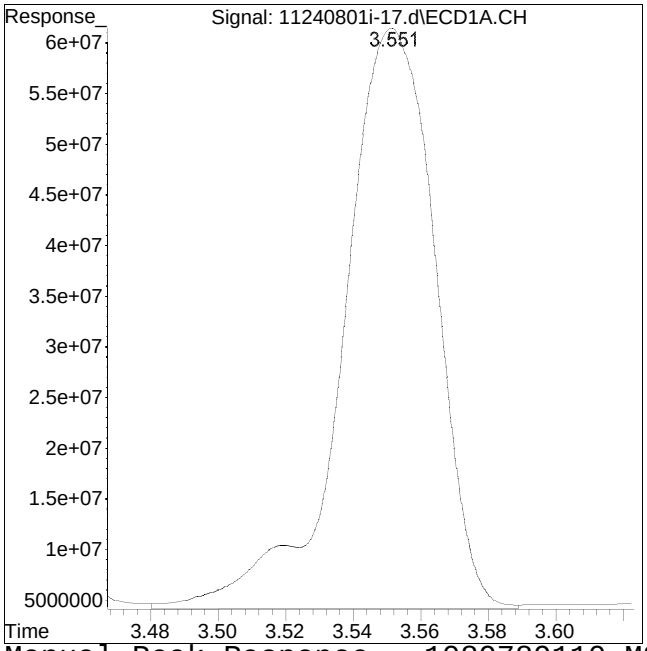
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-17.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:24 Instrument : Pest 11
Sample : il7chlor,42e,,pp 11691 L0.Quant Date : 8/2/2024 12:09 pm

Compound #32: chlordane-5





Original Peak Response = 1094750132 Manual Peak Response = 1089789110 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:36
Operator : PEST11:ejl
Sample : il8chlor,42e,,pp 11690 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:55:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:55:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.385	220.2E6	184.9E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:36
Operator : PEST11:ejl
Sample : il8chlor,42e,,pp 11690 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:55:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:55:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.817	332.9E6	292.8E6	NoCal	NoCal
30) l1	chlordane-3	2.867	3.422	400.7E6	336.8E6	NoCal M3	NoCal
31) l1	chlordane-4	3.425	4.104	1449.5E6	1235.6E6	NoCal	NoCal
32) l1	chlordane-5	3.552	4.275	2241.5E6	947.4E6	NoCal M3	NoCal
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

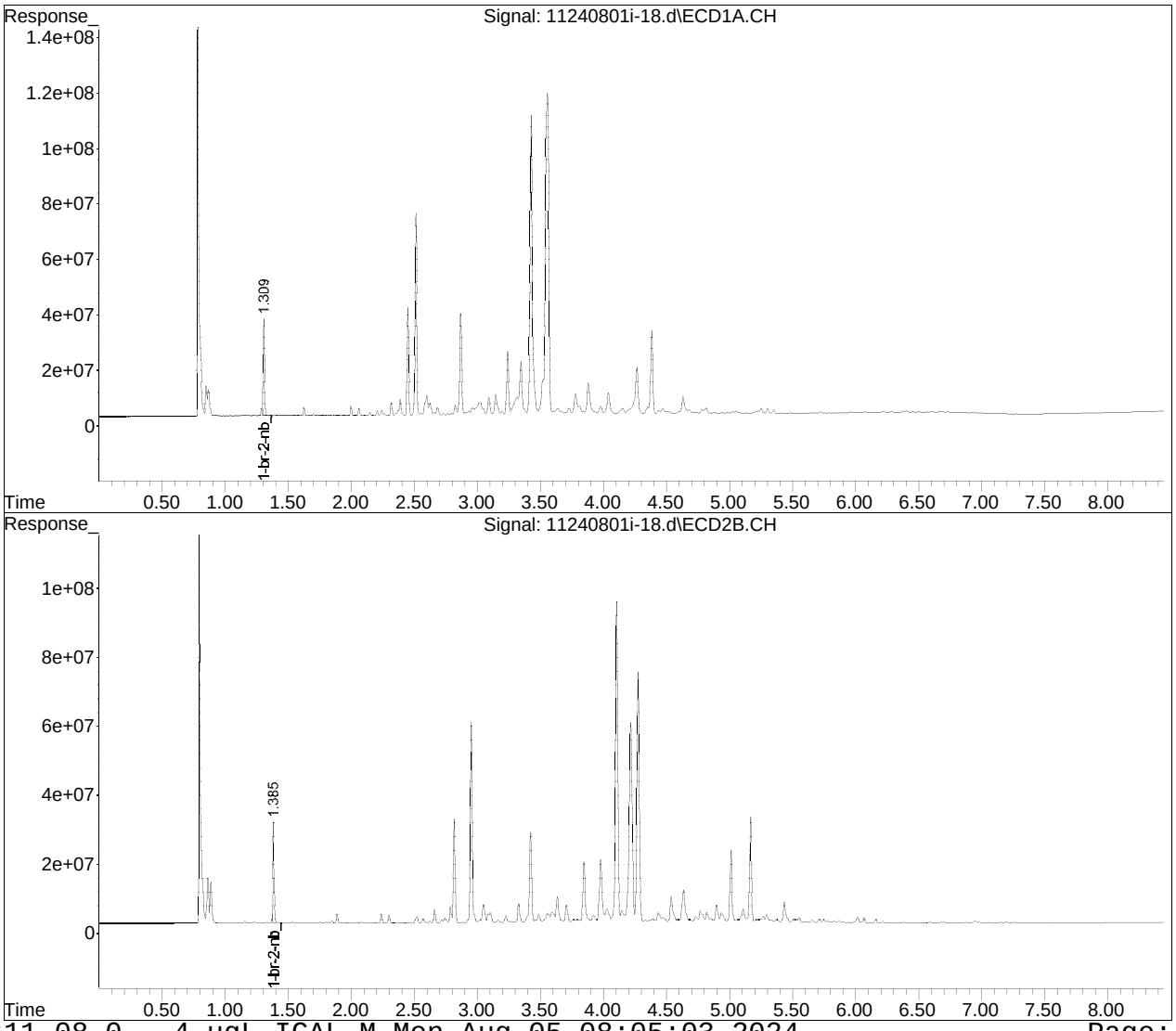
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:36
Operator : PEST11:ejl
Sample : il8chlor,42e,,pp 11690 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:55:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:55:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

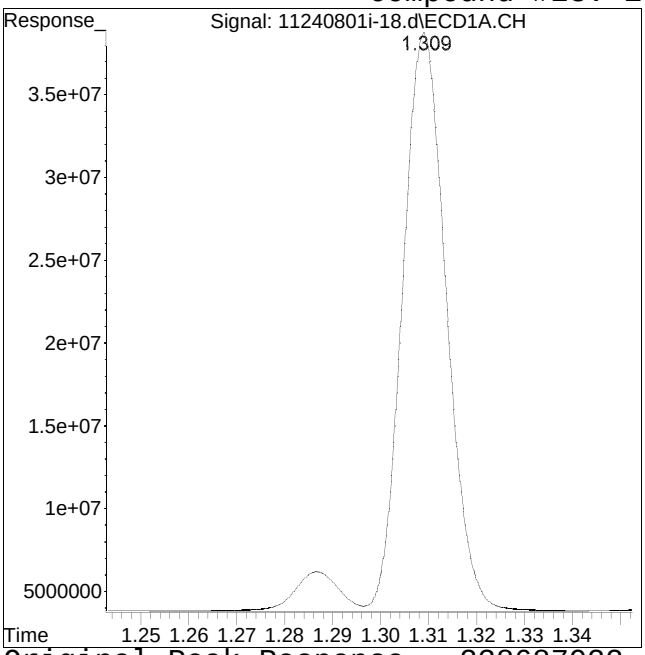


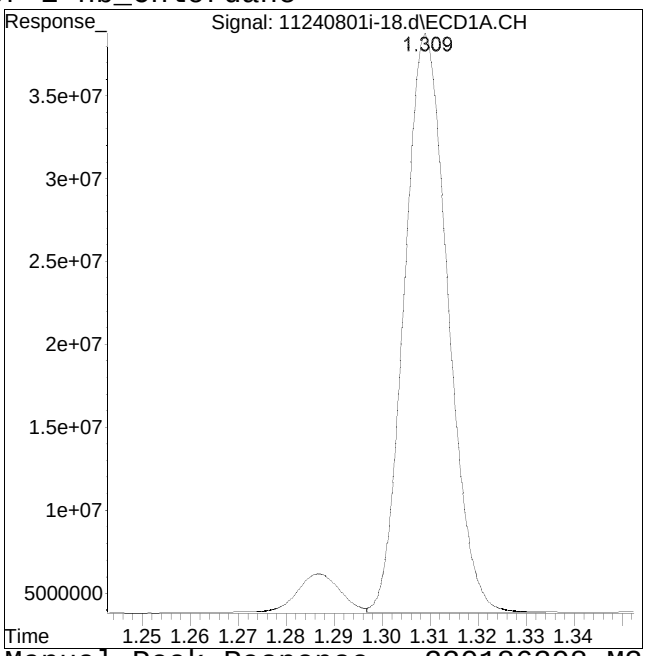
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-18.d
Date Inj'd : 8/1/2024 21:36
Sample : il8chlor,42e,,pp 11690 L1.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:55 am

Compound #28: 1-br-2-nb_Chlordane





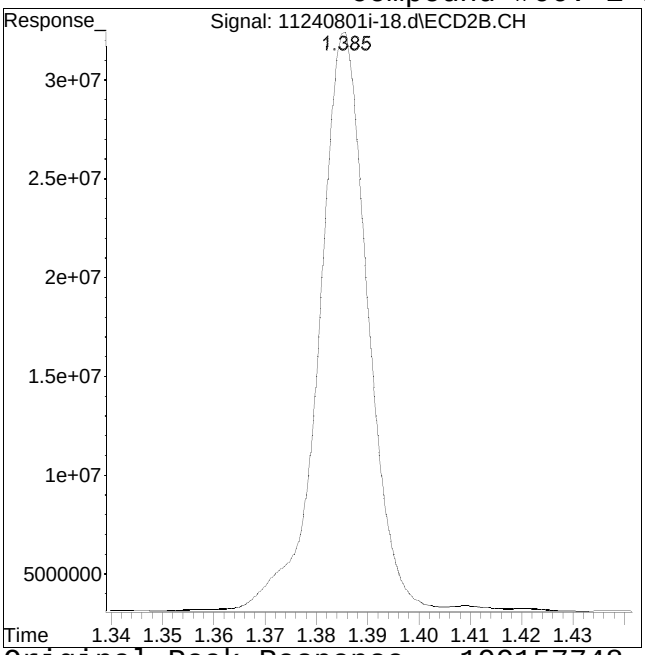
Original Peak Response = 238687922 Manual Peak Response = 220186398 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

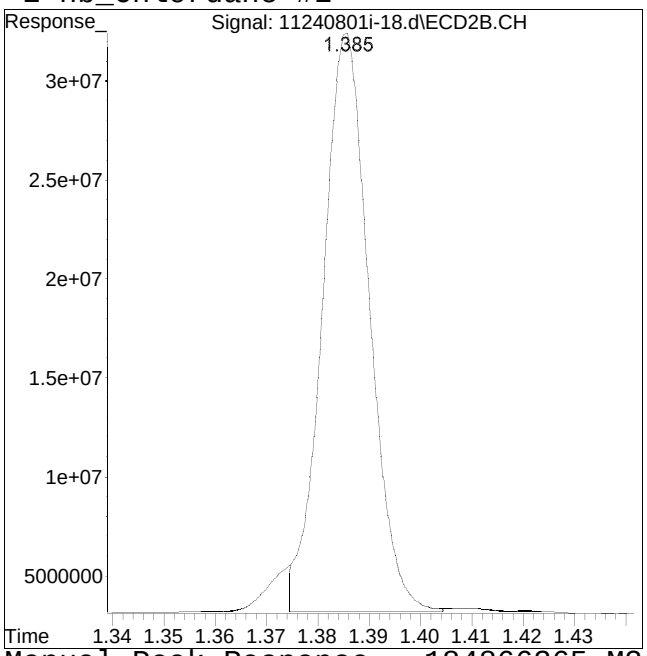
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-18.d
Date Inj'd : 8/1/2024 21:36
Sample : il8chlor,42e,,pp 11690 L1.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:55 am

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 199157748 Manual Peak Response = 184866365 M3

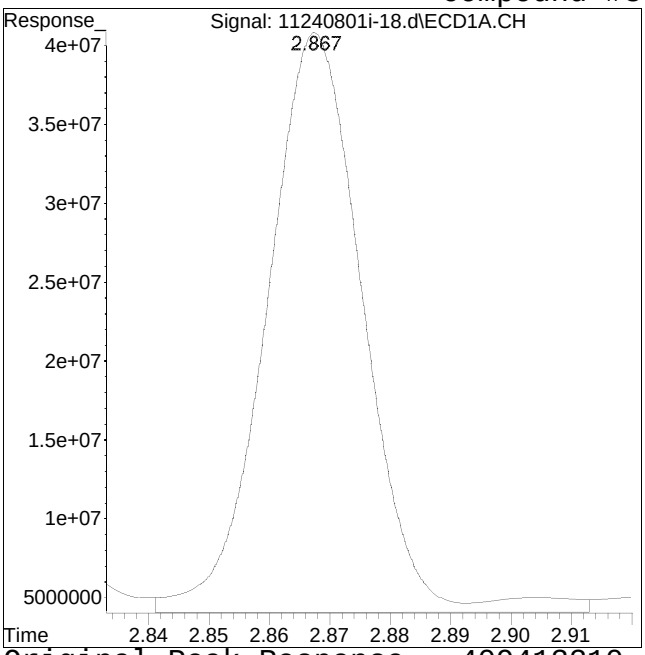
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

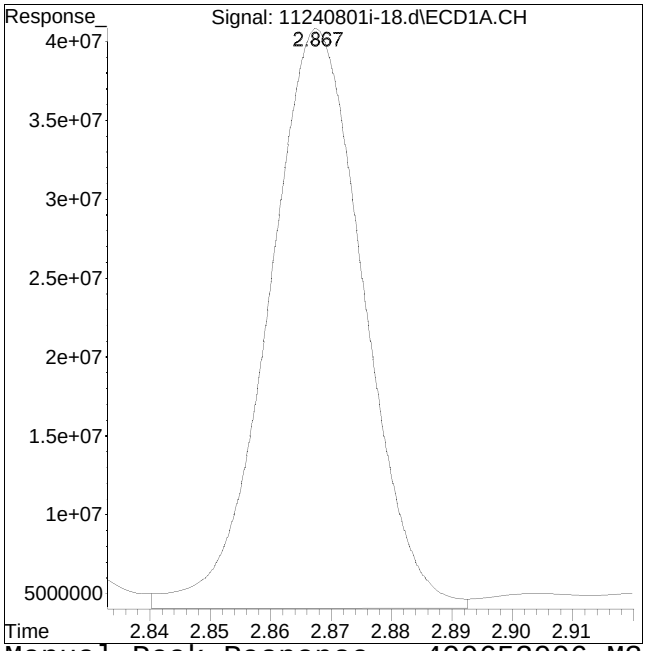
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-18.d
Date Inj'd : 8/1/2024 21:36
Sample : il8chlor,42e,,pp 11690 L1.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:55 am

Compound #30: chlordane-3





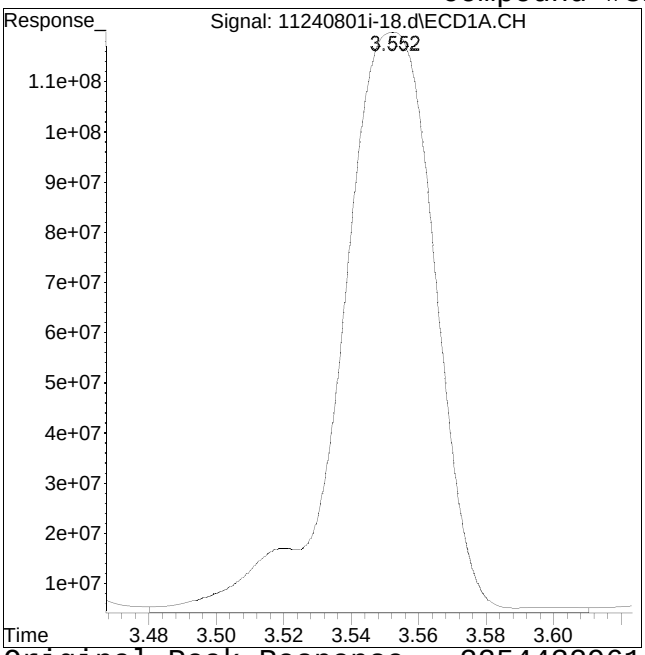
Original Peak Response = 409413310 Manual Peak Response = 400653006 M3

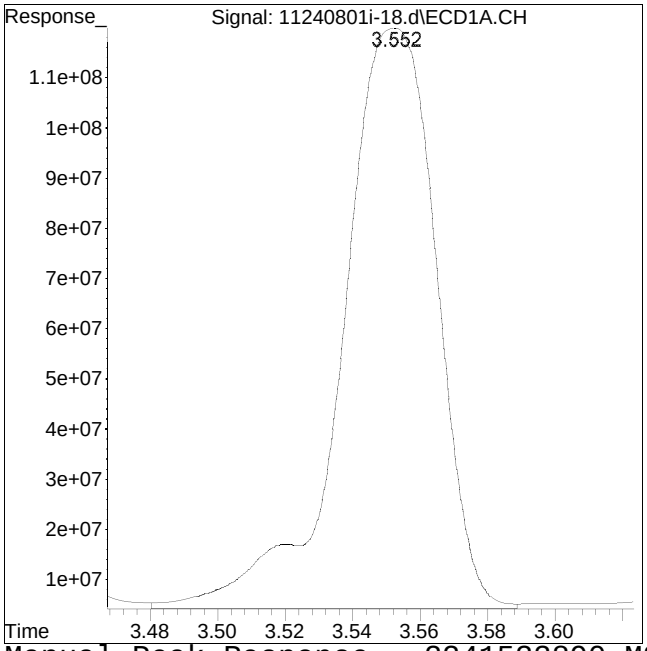
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-18.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:36 Instrument : Pest 11
Sample : il8chlor,42e,,pp 11690 L1.Quant Date : 8/2/2024 11:55 am

Compound #32: chlordane-5





Original Peak Response = 2254432961 Manual Peak Response = 2241533890 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:48
Operator : PEST11:ejl
Sample : il9chlor,42e,,pp 11689 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:06:31 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:06:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.385	225.5E6	184.1E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:48
Operator : PEST11:ejl
Sample : il9chlor,42e,,pp 11689 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:06:31 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:06:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.817	675.3E6	585.8E6	1981.244	2009.090
30) l1	chlordane-3	2.867	3.423	788.9E6	650.4E6	1922.917M3	1939.223
31) l1	chlordane-4	3.425	4.105	2915.2E6	2486.4E6	1964.100	2020.689
32) l1	chlordane-5	3.552	4.275	4487.5E6	1905.6E6	1955.174	2019.653
Sum	chlordane-1			8866.9E6	5628.2E6	NoCal	NoCal D
Average	chlordane-1					1955.859	1997.164
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

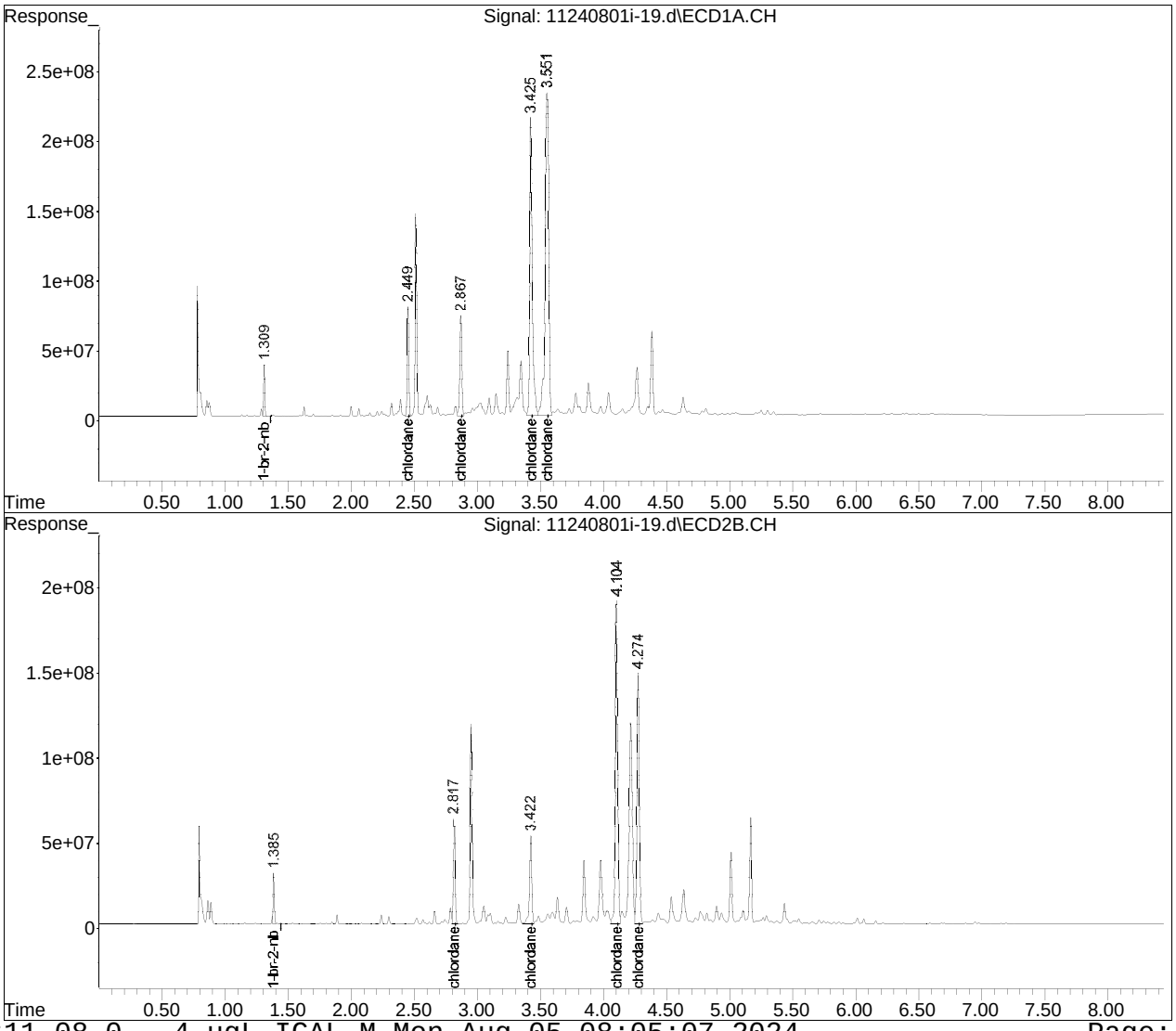
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:48
Operator : PEST11:ejl
Sample : il9chlor,42e,,pp 11689 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:06:31 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:06:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

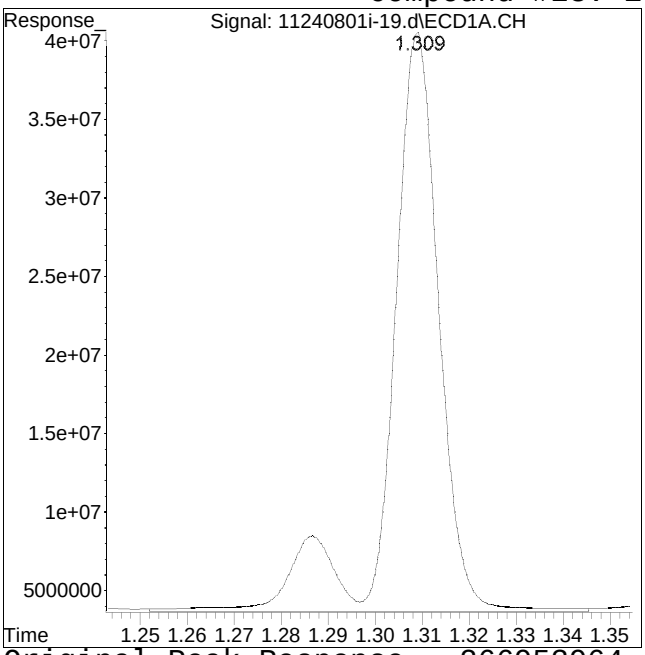
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

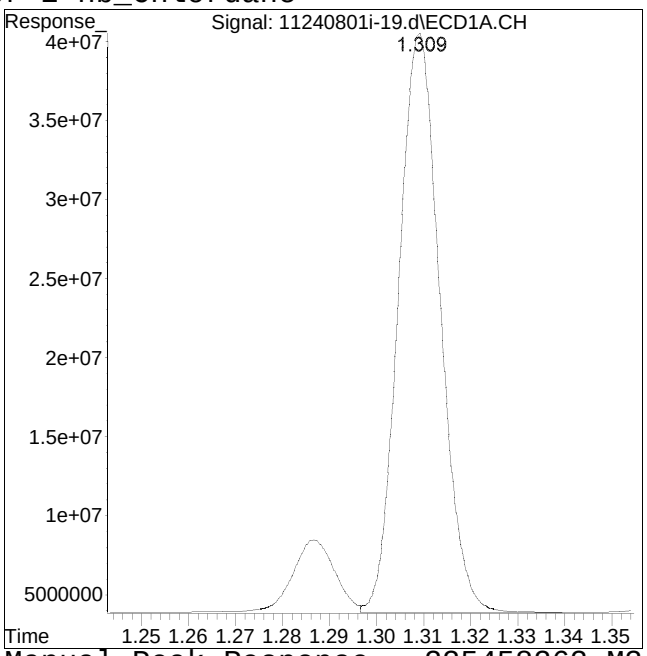


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-19.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:48 Instrument : Pest 11
Sample : il9chlor,42e,,pp 11689 L2.Quant Date : 8/2/2024 12:06 pm

Compound #28: 1-br-2-nb_Chlordane



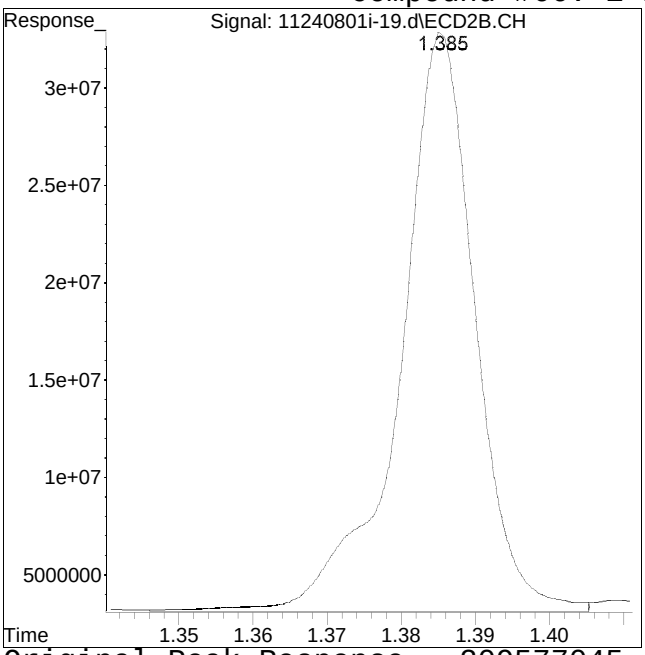


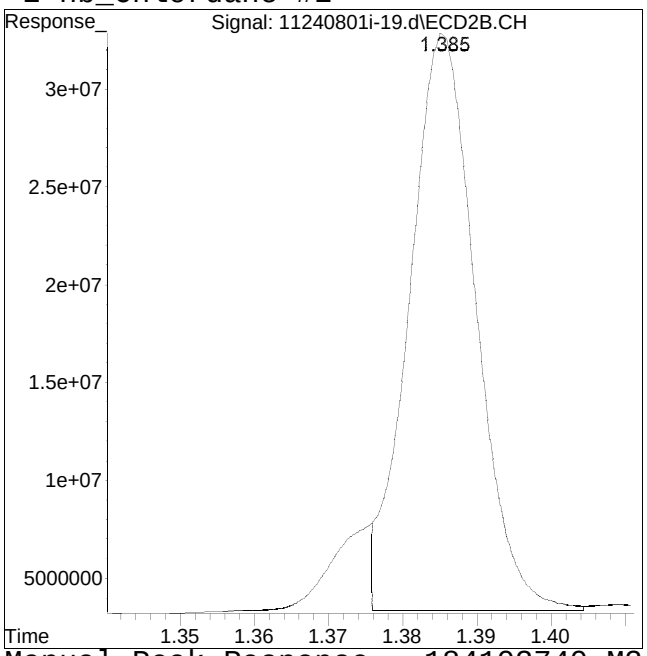
Original Peak Response = 266953964 Manual Peak Response = 225458262 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-19.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:48 Instrument : Pest 11
Sample : il9chlor,42e,,pp 11689 L2.Quant Date : 8/2/2024 12:06 pm

Compound #66: 1-br-2-nb_Chlordane #2



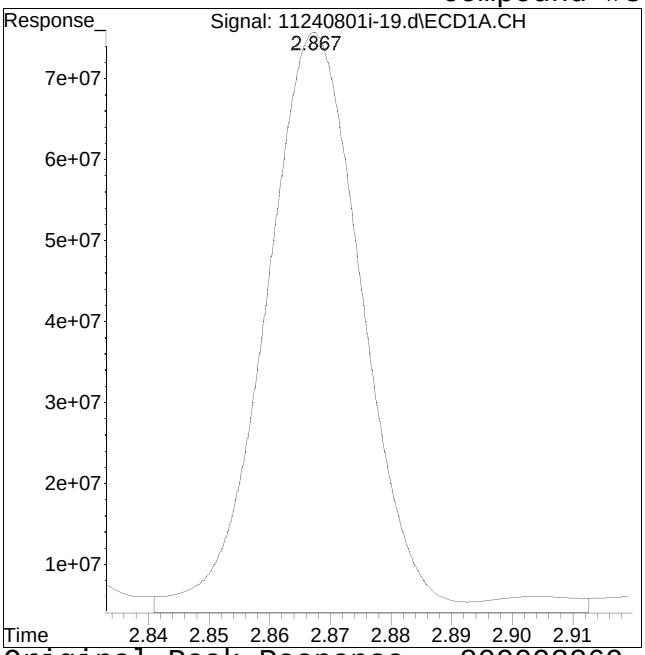


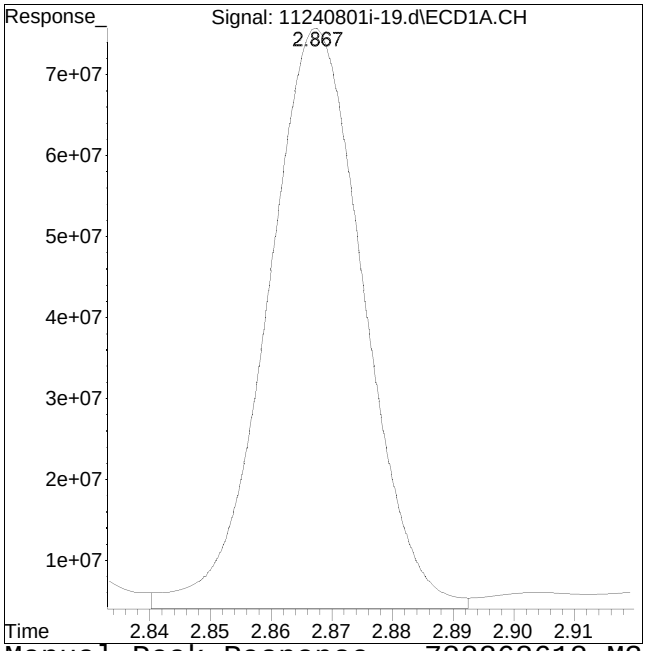
Original Peak Response = 209577045 Manual Peak Response = 184103740 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-19.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:48 Instrument : Pest 11
Sample : il9chlor,42e,,pp 11689 L2.Quant Date : 8/2/2024 12:06 pm

Compound #30: chlordane-3





Original Peak Response = 809093269 Manual Peak Response = 788868618 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:00
Operator : PEST11:ejl
Sample : il10chlor,42e,,pp 11688 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:07:47 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:07:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.386	240.1E6	211.3E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:00
Operator : PEST11:ejl
Sample : il10chlor,42e,,pp 11688 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:07:47 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:07:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.818	1711.0E6	1485.0E6	4735.136	4428.395
30) l1	chlordane-3	2.868	3.422	1944.4E6	1582.5E6	4537.369	4174.870
31) l1	chlordane-4	3.425	4.105	7244.9E6	6226.2E6	4624.523	4386.798
32) l1	chlordane-5	3.553	4.275	11069.4E6	4784.6E6	4579.501M3	4397.515
Sum	chlordane-1			21969.7E6	14078.2E6	NoCal	NoCal D
Average	chlordane-1					4619.132	4346.894
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

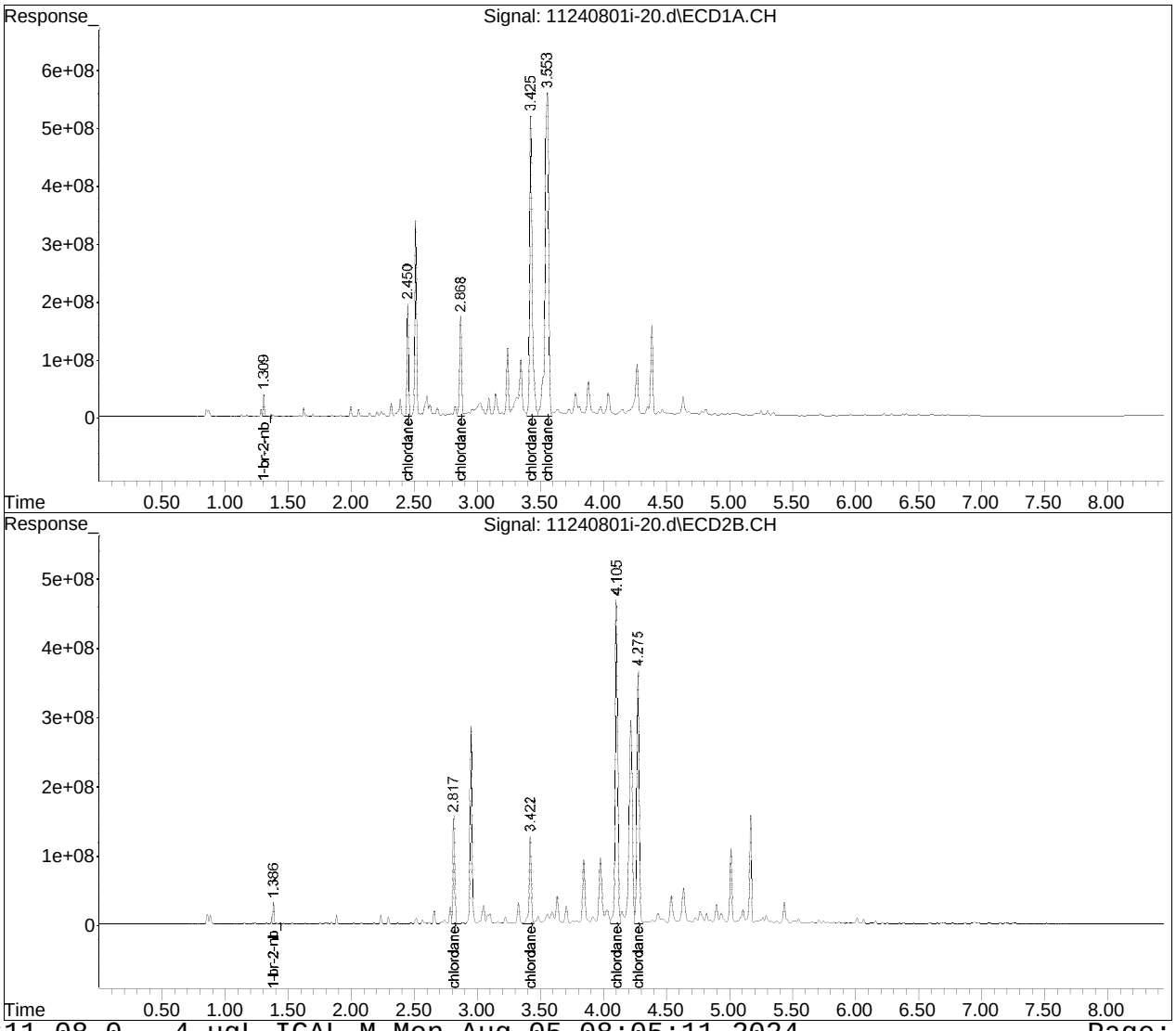
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:00
Operator : PEST11:ejl
Sample : il10chlor,42e,,pp 11688 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:07:47 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:07:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

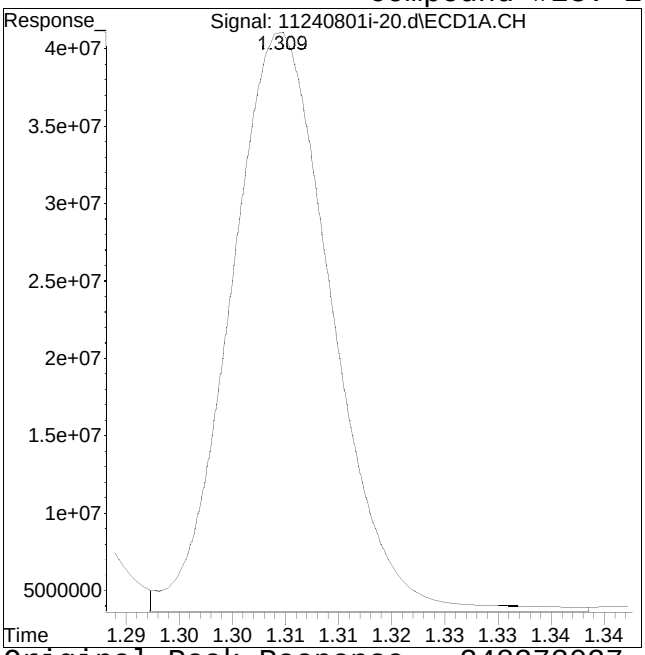


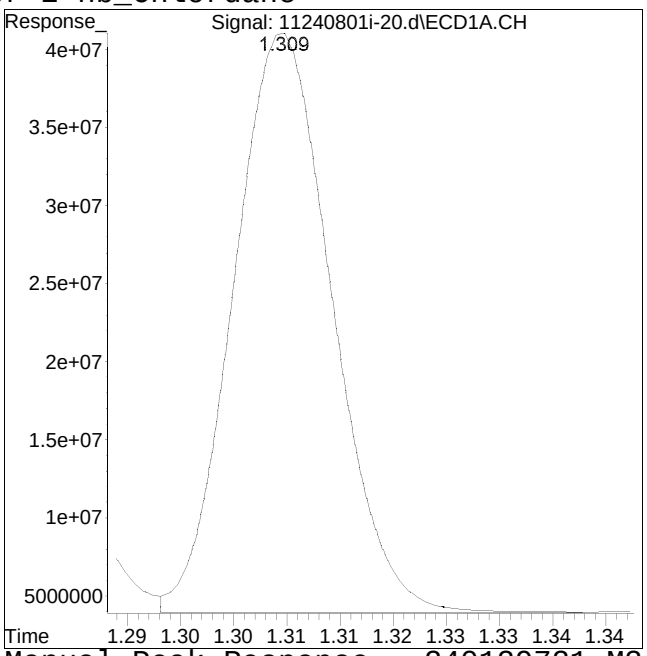
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-20.d
Date Inj'd : 8/1/2024 22:00
Sample : il10chlor,42e,,pp 11688 L5

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:07 pm

Compound #28: 1-br-2-nb_Chlordane





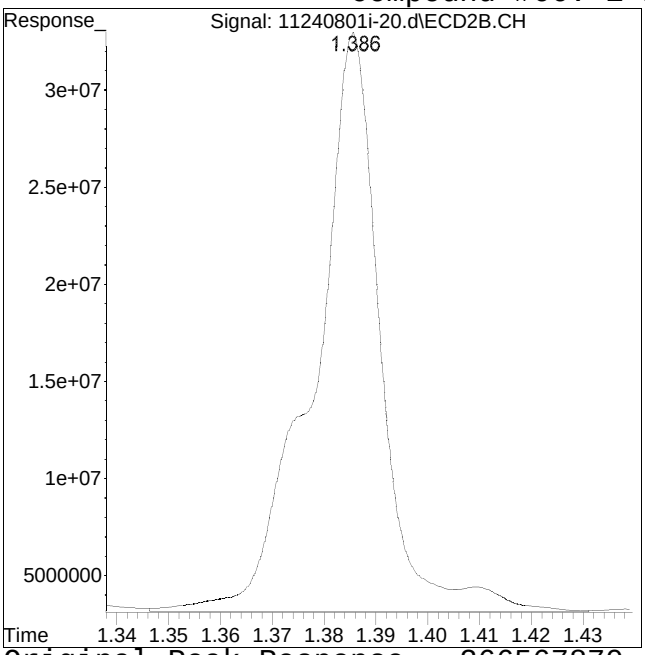
Original Peak Response = 248373027 Manual Peak Response = 240129721 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

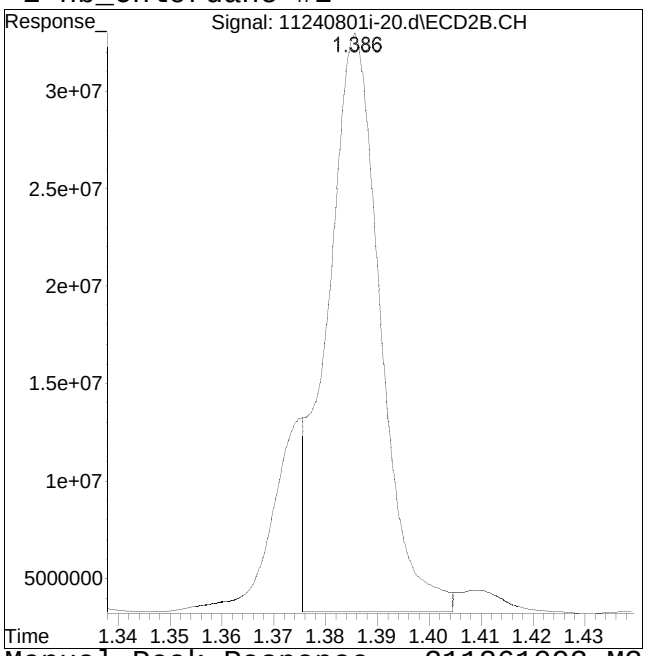
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-20.d
Date Inj'd : 8/1/2024 22:00
Sample : il10chlor,42e,,pp 11688 L5

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:07 pm

Compound #66: 1-br-2-nb_Chlordane #2





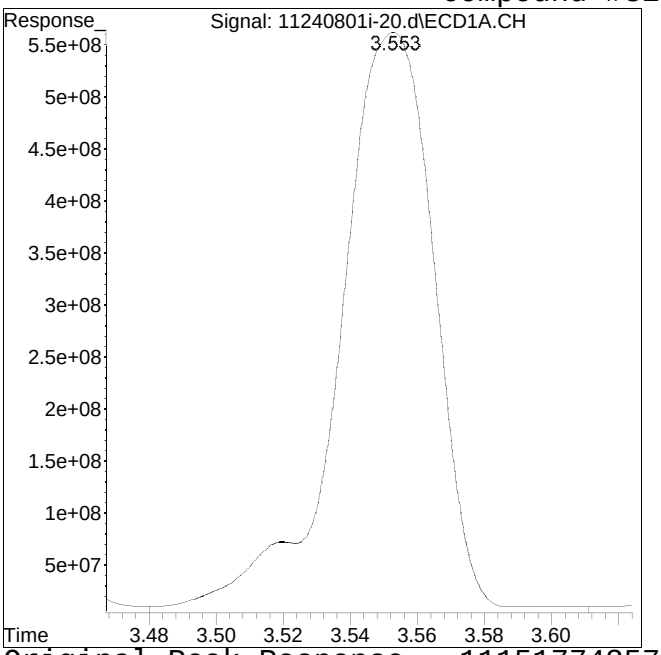
Original Peak Response = 266567870 Manual Peak Response = 211261092 M3

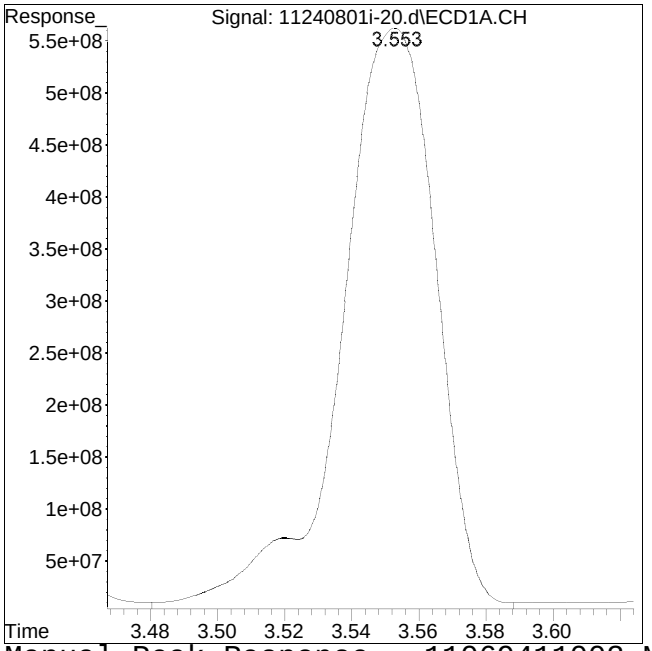
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-20.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:00 Instrument : Pest 11
Sample : il10chlor,42e,,pp 11688 L5Quant Date : 8/2/2024 12:07 pm

Compound #32: chlordane-5





Original Peak Response = 11151774357 Manual Peak Response = 11069411003 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample   : cicvchlor,42e,,pp 11670 L1.0ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	97	0.00
29	l1	chlordane-1		*1000.000	910.442	9.0	86	0.00
30	l1	chlordane-3		*1000.000	925.102	7.5	84	0.00
31	l1	chlordane-4		*1000.000	883.809	11.6	82	0.00
32	l1	chlordane-5		*1000.000	991.186	0.9	91	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	96	0.00
29	l1	chlordane-1		*1000.000	944.301	5.6	85	0.00
30	l1	chlordane-3		*1000.000	973.540	2.6	84	0.00
31	l1	chlordane-4		*1000.000	893.716	10.6	80	0.00
32	l1	chlordane-5		*1000.000	877.017	12.3	79	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.31#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.65#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.87#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.96#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.17#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.22#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.35#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.51#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.76#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.88#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.97#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.30#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.42#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample   : cicvchlor,42e,,pp 11670 L1.0ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.56#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.66#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.69#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.96#
18	t	Endrin		1.153	0.000	100.0#	0#	-4.21#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.32#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.45#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.62#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.87#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-5.10#
24	t	Mirex		0.938	0.000	100.0#	0#	-5.16#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.26#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.49#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.29#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.31#
34	l2	toxaphene-2	*	0.050	0.000	100.0#	0#	-4.44#
35	l2	toxaphene-3	*	0.039	0.000	100.0#	0#	-4.57#
36	l2	toxaphene-4	*	0.042	0.000	100.0#	0#	-4.79#
37	l2	toxaphene-5	*	0.043	0.000	100.0#	0#	-5.17#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.39#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.86#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.18#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.27#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.56#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.62#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.89#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample   : cicvchlor,42e,,pp 11670 L1.0ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.95#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.27#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.15#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.51#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.88#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-4.10#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.27#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.47#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.34#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.63#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.93#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-5.05#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-5.13#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.33#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.42#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.89#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.02#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.65#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-6.06#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.92#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.39#
34	l2	toxaphene-2	*	0.025	0.000	100.0#	0#	-5.08#
35	l2	toxaphene-3	*	0.037	0.000	100.0#	0#	-5.11#
36	l2	toxaphene-4	*	0.044	0.000	100.0#	0#	-5.43#
37	l2	toxaphene-5	*	0.042	0.000	100.0#	0#	-5.84#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample : cicvchlor,42e,,pp 11670 L1.0ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.385	215.4E6	177.1E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample : cicvchlor,42e,,pp 11670 L1.0ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.817	285.6E6	248.8E6	910.442	944.301
30) l1	chlordane-3	2.868	3.422	337.4E6	282.0E6	925.102	973.540
31) l1	chlordane-4	3.426	4.105	1185.4E6	988.3E6	883.809	893.716
32) l1	chlordane-5	3.550	4.275	2040.5E6	745.1E6	991.186	877.017
Sum	chlordane-1			3848.9E6	2264.2E6	NoCal	NoCal D
Average	chlordane-1					927.635	922.144
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

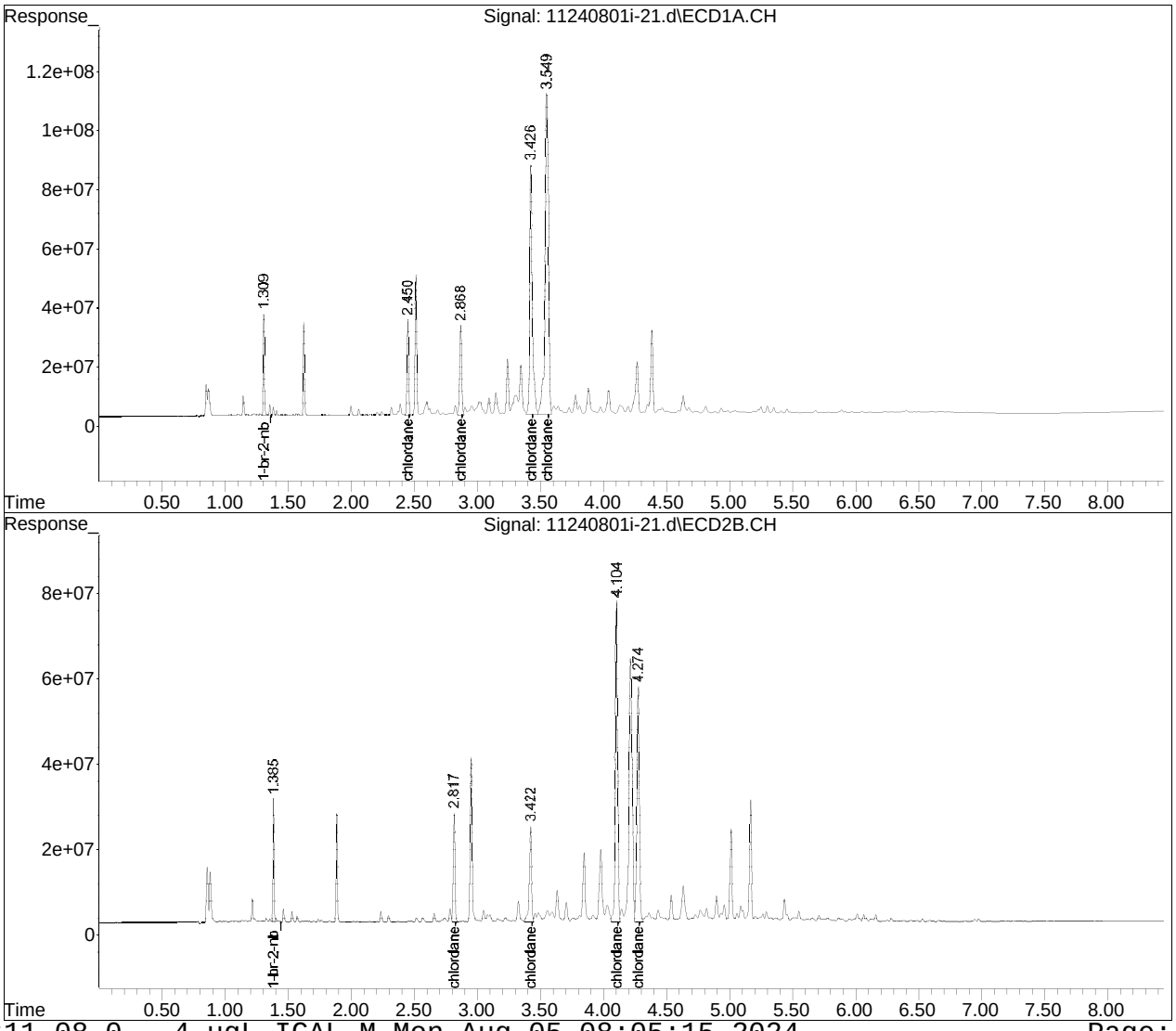
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample : cicvchlor,42e,,pp 11670 L1.0ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

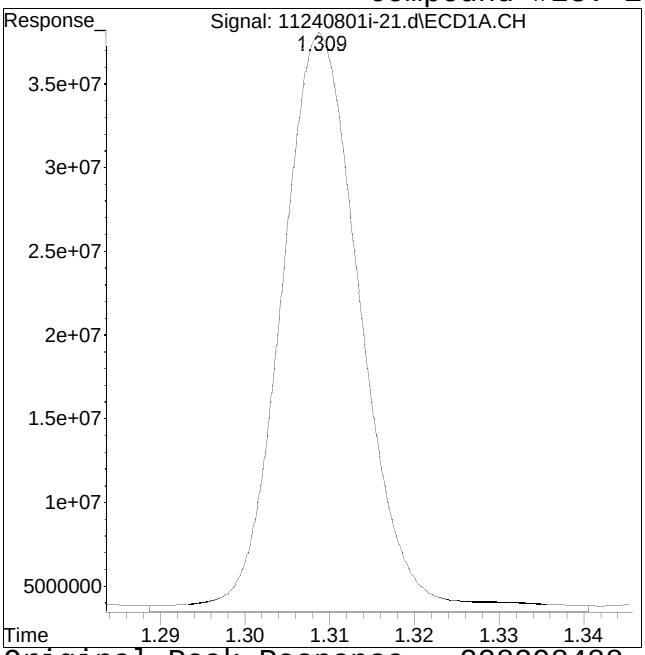
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

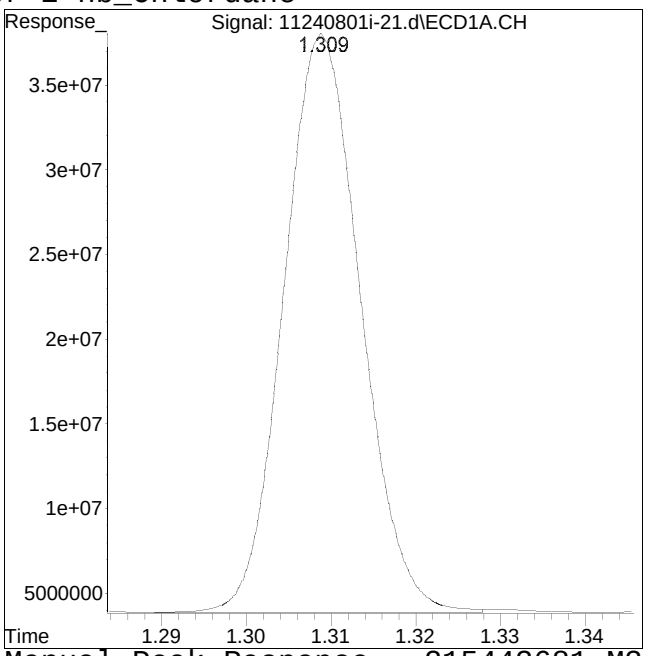


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-21.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:12 Instrument : Pest 11
Sample : cicvchlor,42e,,pp 11670 L1Quant Date : 8/2/2024 12:16 pm

Compound #28: 1-br-2-nb_Chlordane



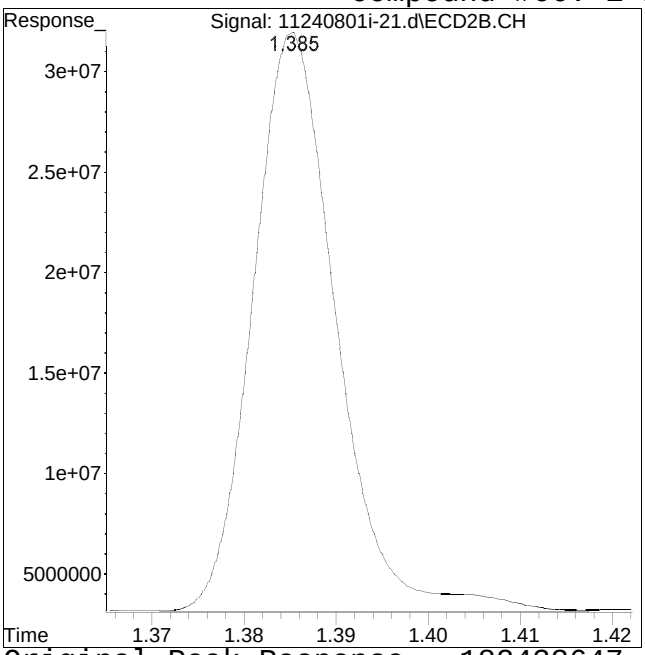


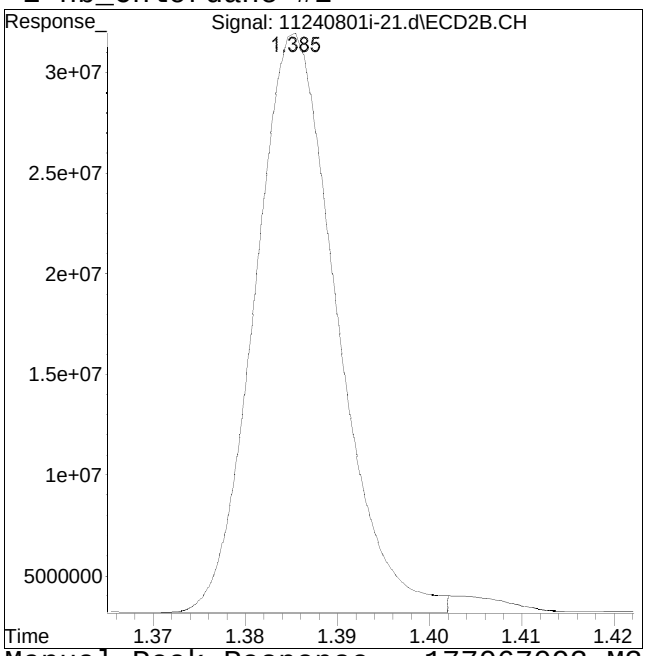
Original Peak Response = 228298488 Manual Peak Response = 215443681 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-21.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:12 Instrument : Pest 11
Sample : cicvchlor,42e,,pp 11670 L1Quant Date : 8/2/2024 12:16 pm

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 182433647 Manual Peak Response = 177067093 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:24
Operator : PEST11:ejl
Sample : il3tox,42e,,pp 11703 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:25:16 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:25:08 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.385	207.9E6	171.7E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7) t	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8) t	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9) t	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10) t	Alachlor	0.000	0.000	0	0	N.D.	N.D.
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12) t	Heptachlor E	0.000	0.000	0	0	N.D.	N.D.
13) t	gamma-Chlord	0.000	0.000	0	0	N.D.	N.D.
14) t	alpha-Chlord	0.000	0.000	0	0	N.D.	N.D.
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:24
Operator : PEST11:ejl
Sample : il3tox,42e,,pp 11703 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:25:16 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:25:08 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D.	N.D.
31) l1	chlordane-4	0.000	0.000	0	0	N.D.	N.D.
32) l1	chlordane-5	0.000	0.000	0	0	N.D.	N.D.
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.443	5.084	6298815	3783276	14.276	22.443
35) l2	toxaphene-3	4.566	5.112	5311161	5766534	15.580	23.257
36) l2	toxaphene-4	4.792	5.429	6754862	6780894	19.276M3	23.080
37) l2	toxaphene-5	5.168	5.836	8888706	6922230	26.745M4	25.343
Sum	toxaphene-2			27253545	23252934	75.878	94.123
Average	toxaphene-2					18.970	23.531

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			27253545	23252934	75.878	94.123
Average	toxaphene-2					18.970	23.531

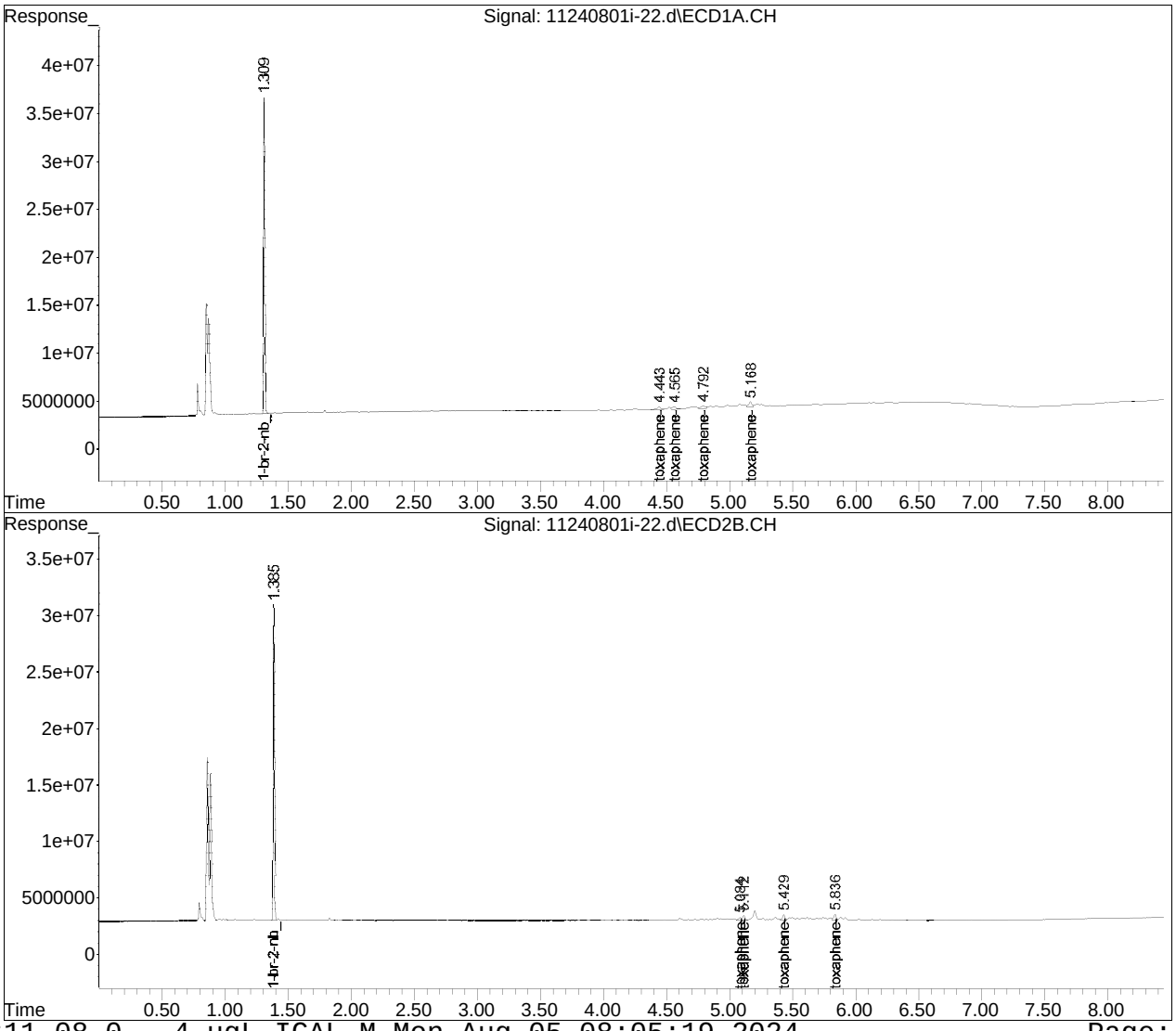
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:24
Operator : PEST11:ejl
Sample : il3tox,42e,,pp 11703 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:25:16 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:25:08 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

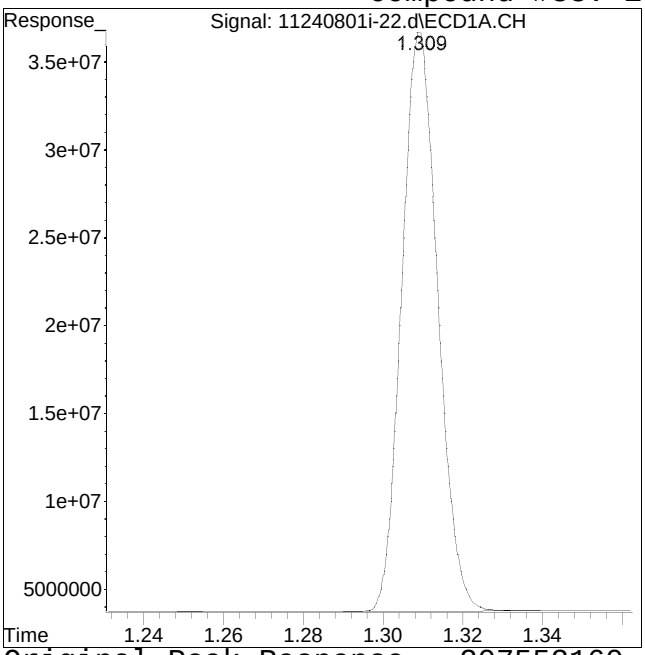


Manual Integration Report

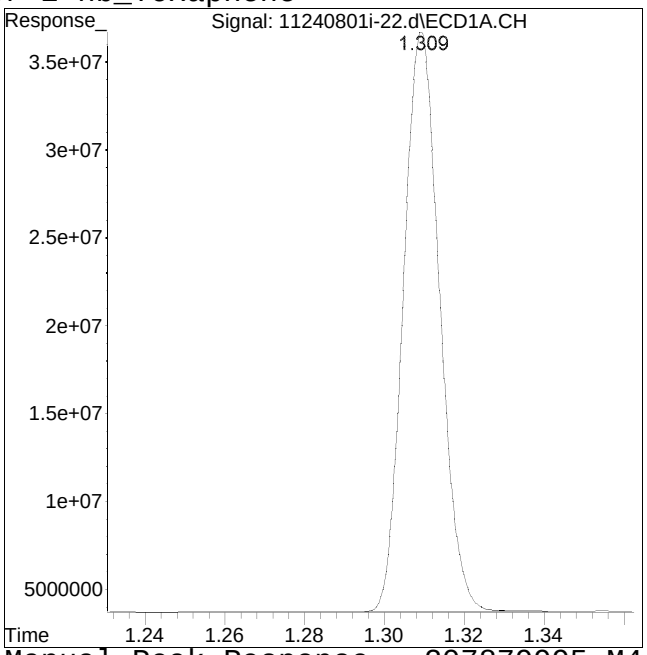
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-22.d
Date Inj'd : 8/1/2024 22:24
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:25 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 207552160



Manual Peak Response = 207879995 M4

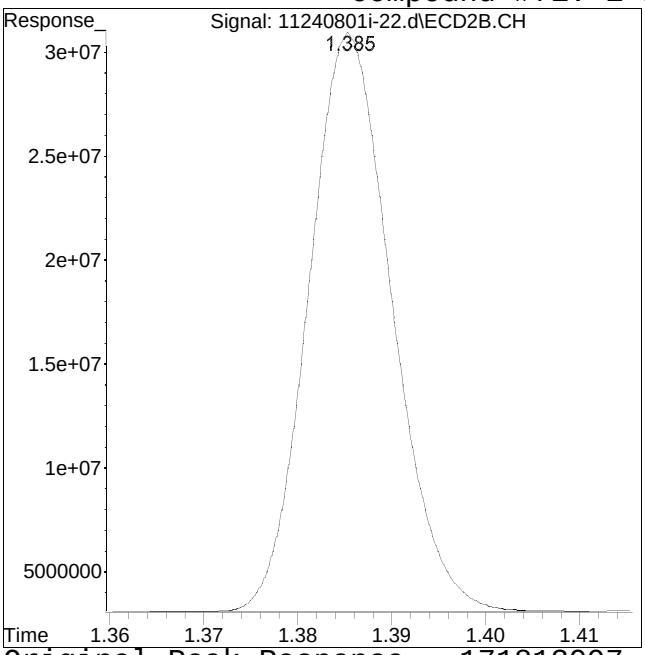
M4 = Poor automated baseline construction.

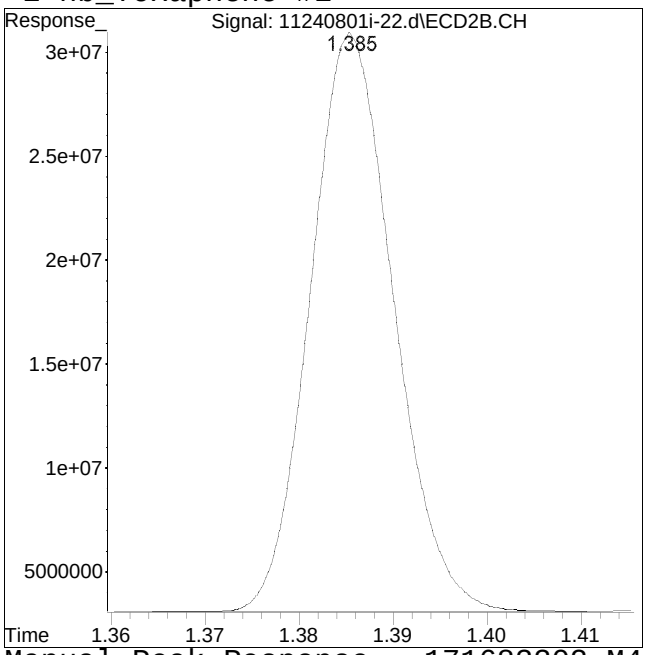
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-22.d
Date Inj'd : 8/1/2024 22:24
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:25 pm

Compound #71: 1-br-2-nb_Toxaphene #2





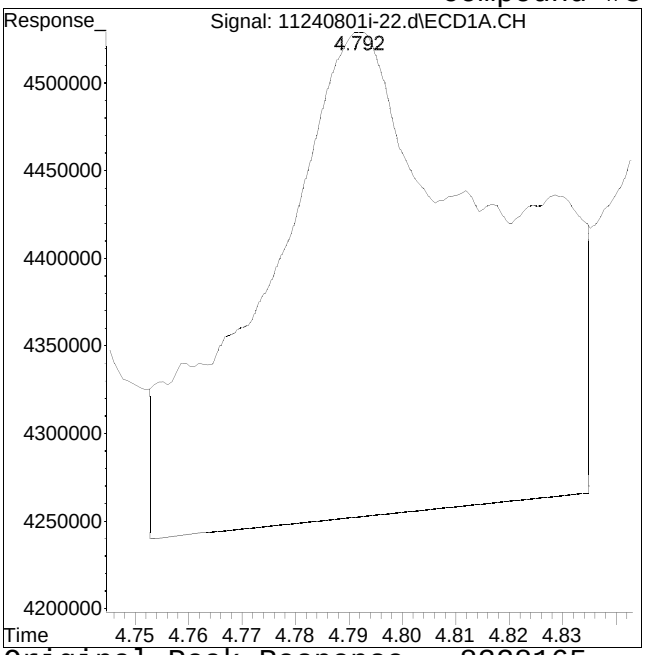
Original Peak Response = 171813997 Manual Peak Response = 171683302 M4
M4 = Poor automated baseline construction.

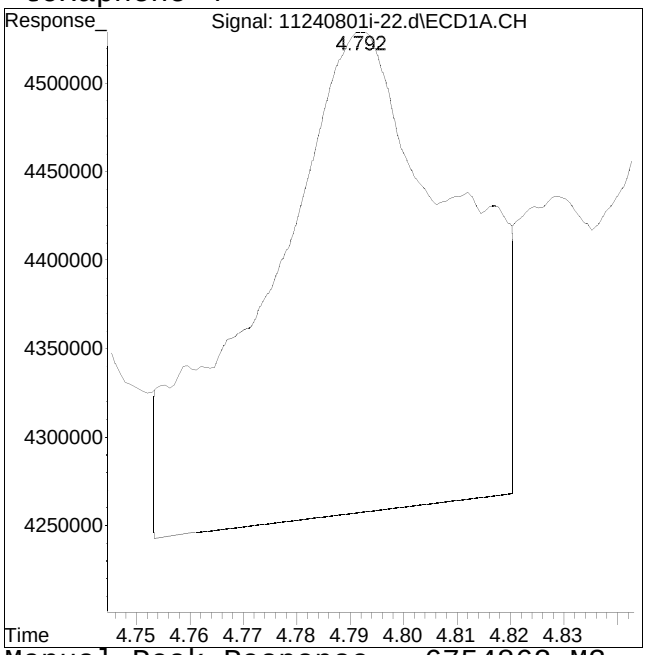
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-22.d
Date Inj'd : 8/1/2024 22:24
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:25 pm

Compound #36: toxaphene-4





Original Peak Response = 8328165 Manual Peak Response = 6754862 M3

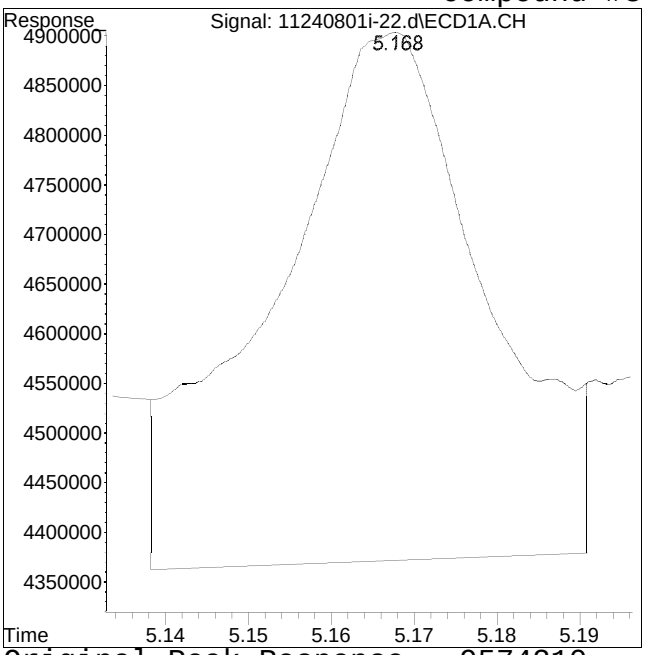
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

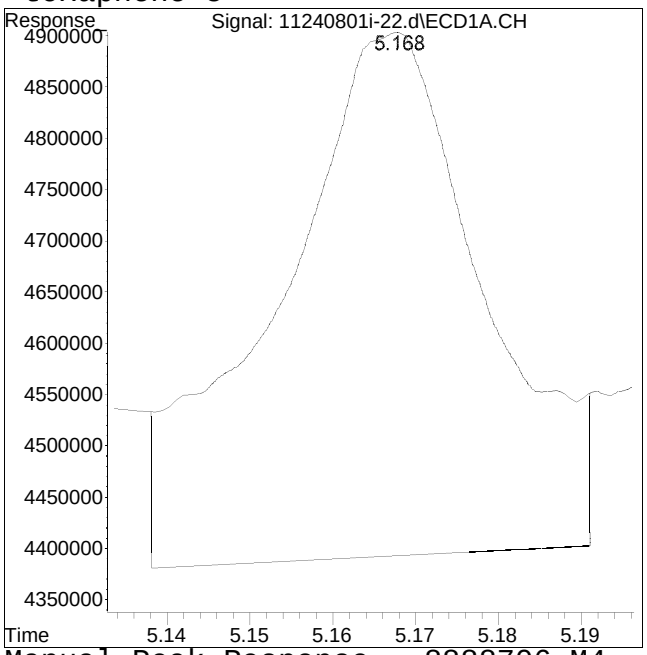
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-22.d
Date Inj'd : 8/1/2024 22:24
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:25 pm

Compound #37: toxaphene-5



Original Peak Response = 9574210



Manual Peak Response = 8888706 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:36
Operator : PEST11:ejl
Sample : il4tox,42e,,pp 11702 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:57 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:23:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.385	214.5E6	175.4E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7) t	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8) t	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:36
Operator : PEST11:ejl
Sample : il4tox,42e,,pp 11702 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:57 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:23:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.443	5.084	39578469	19576926	83.312	119.105
35) l2	toxaphene-3	4.566	5.112	30033204	28384507	81.420	116.744
36) l2	toxaphene-4	4.791	5.429	33900580	32843972	91.845M3	112.974
37) l2	toxaphene-5	5.168	5.836	35593892	31255677	105.126	116.675
Sum	toxaphene-2			139.1E6	112.1E6	361.703	465.498
Average	toxaphene-2					90.426	116.374

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			139.1E6	112.1E6	361.703	465.498
Average	toxaphene-2					90.426	116.374

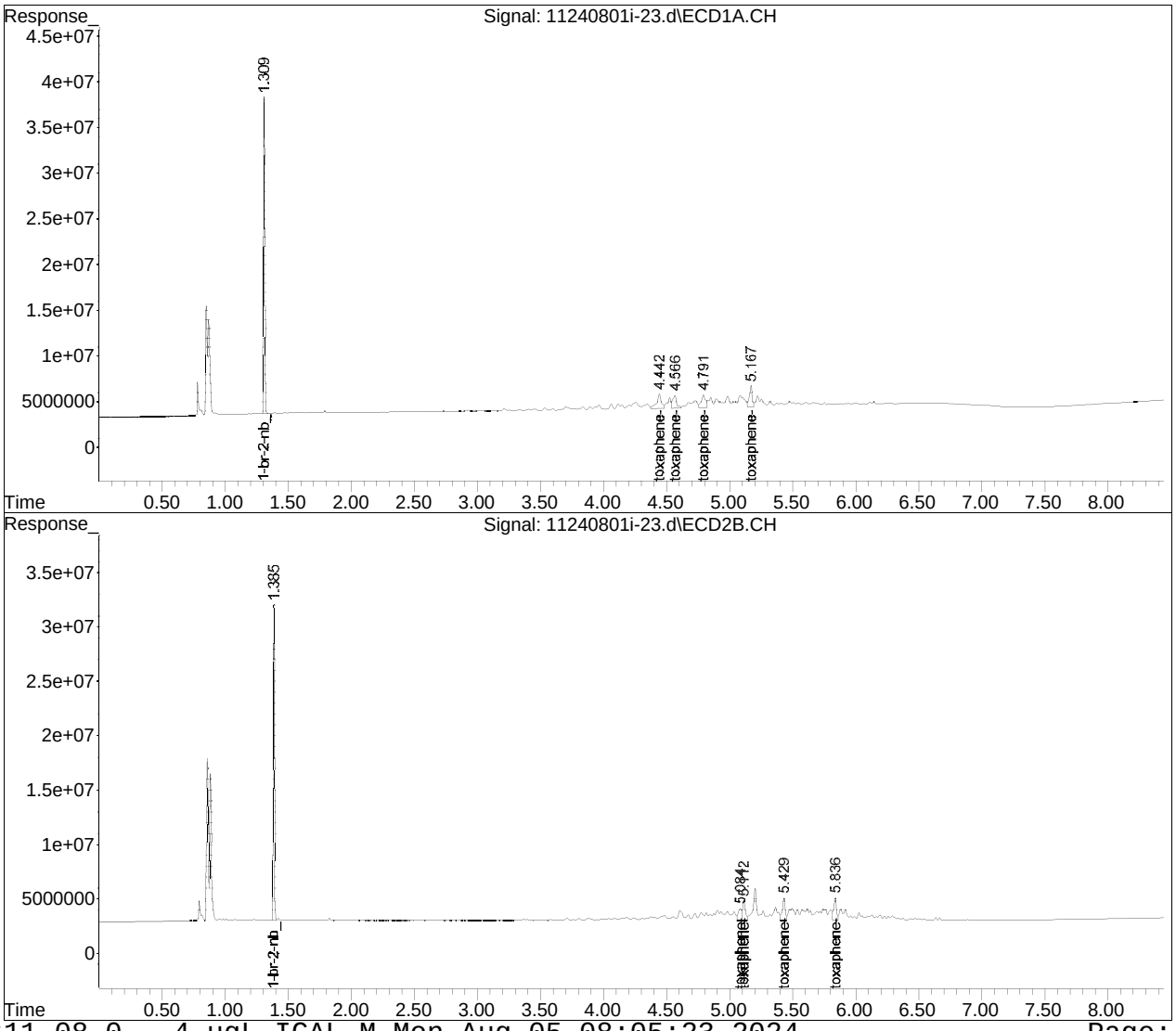
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:36
Operator : PEST11:ejl
Sample : il4tox,42e,,pp 11702 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:57 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:23:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

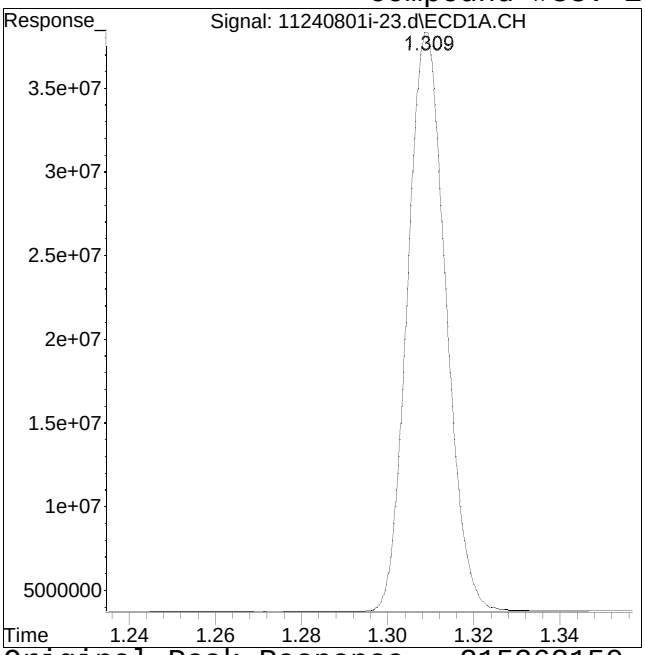
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

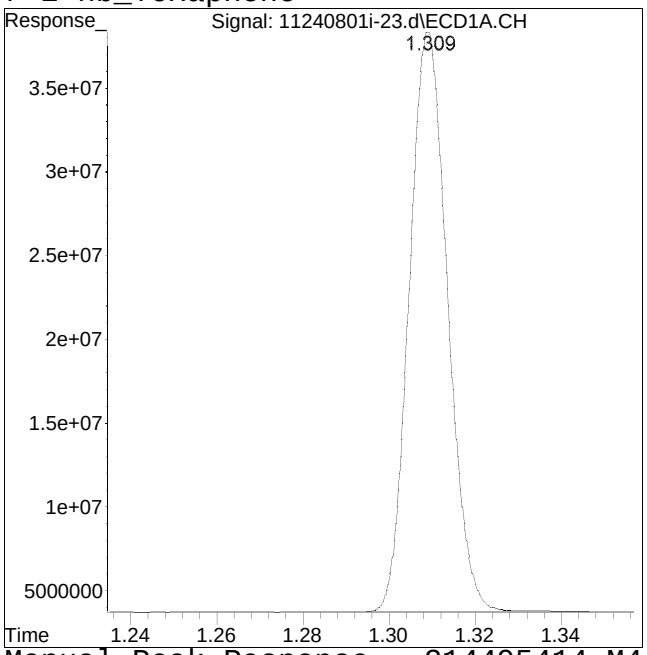


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-23.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:36 Instrument : Pest 11
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 8/2/2024 12:23 pm

Compound #33: 1-br-2-nb_Toxaphene



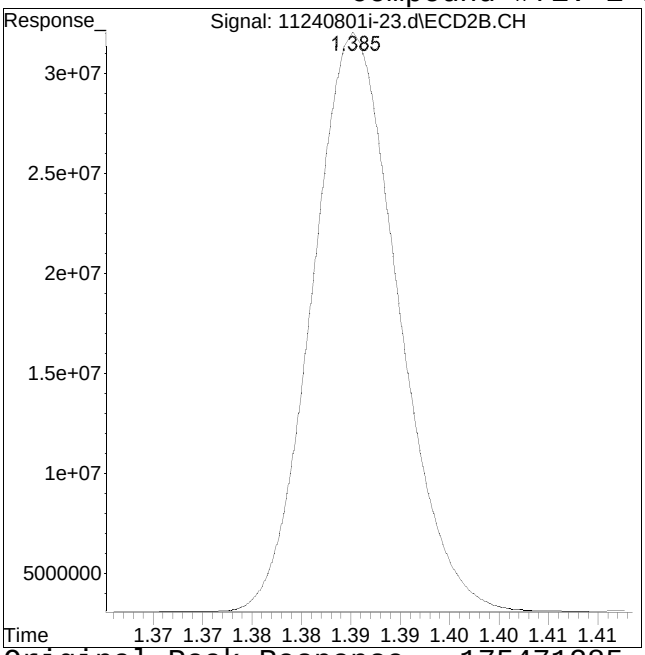


Original Peak Response = 215262150 Manual Peak Response = 214495414 M4
M4 = Poor automated baseline construction.

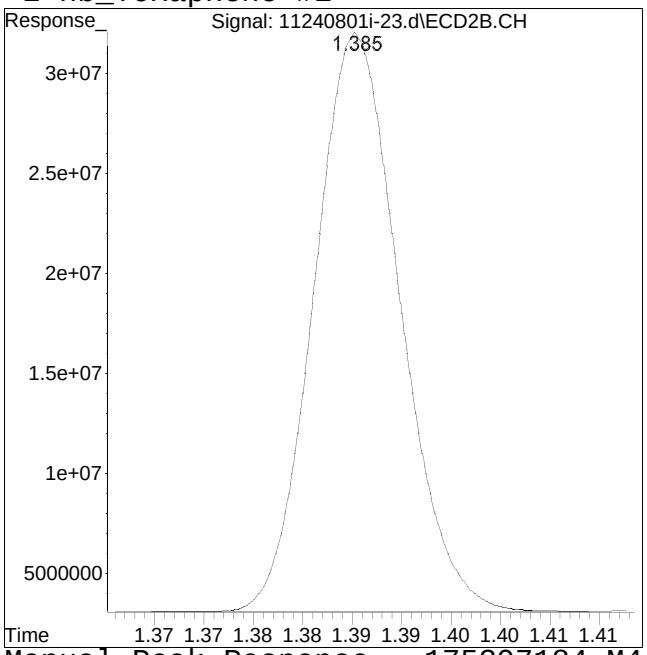
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-23.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:36 Instrument : Pest 11
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 8/2/2024 12:23 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 175471285



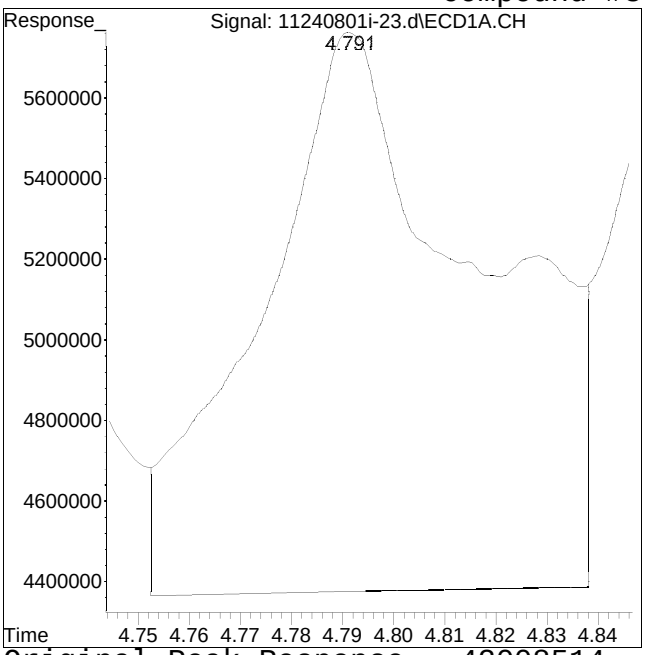
Manual Peak Response = 175397184 M4

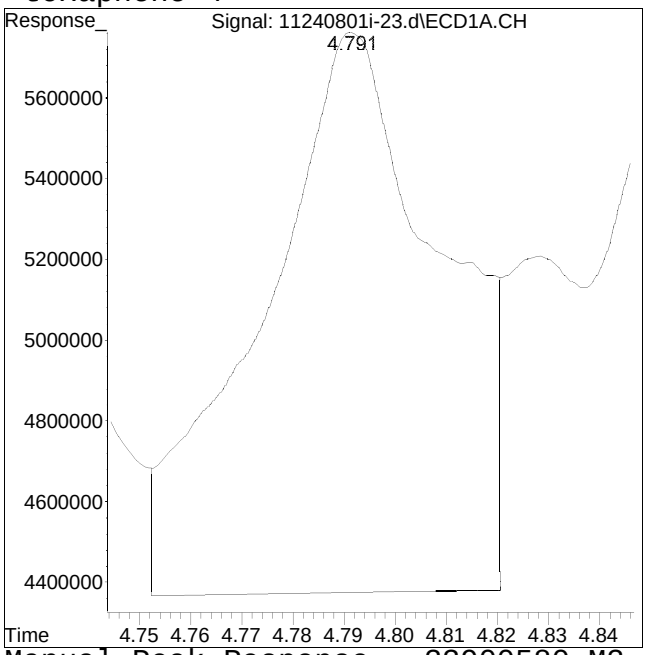
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-23.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:36 Instrument : Pest 11
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 8/2/2024 12:23 pm

Compound #36: toxaphene-4





Original Peak Response = 42008514 Manual Peak Response = 33900580 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:47
Operator : PEST11:ejl
Sample : il7tox,42e,,pp 11701 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:05 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:22:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.385	217.4E6	172.7E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:47
Operator : PEST11:ejl
Sample : il7tox,42e,,pp 11701 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:05 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:22:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.442	5.084	475.5E6	162.1E6	981.231	1002.404
35) l2	toxaphene-3	4.566	5.112	362.8E6	238.4E6	956.095	993.623
36) l2	toxaphene-4	4.792	5.429	362.1E6	283.2E6	952.261	983.638
37) l2	toxaphene-5	5.167	5.836	340.4E6	261.1E6	987.487	984.711
Sum	toxaphene-2			1540.8E6	944.9E6	3877.074	3964.377
Average	toxaphene-2					969.268	991.094

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			1540.8E6	944.9E6	3877.074	3964.377
Average	toxaphene-2					969.268	991.094

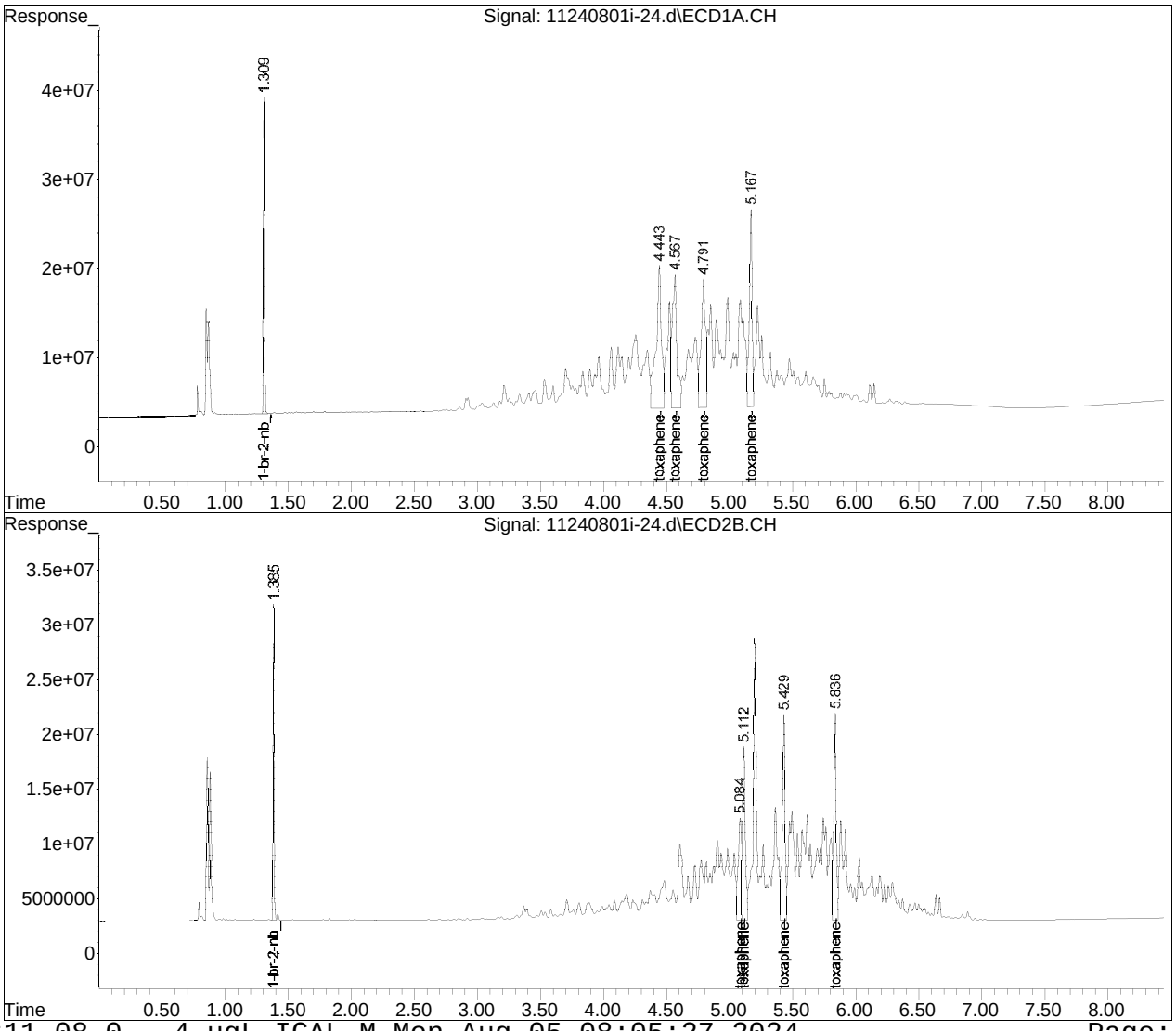
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:47
Operator : PEST11:ejl
Sample : il7tox,42e,,pp 11701 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:05 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:22:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

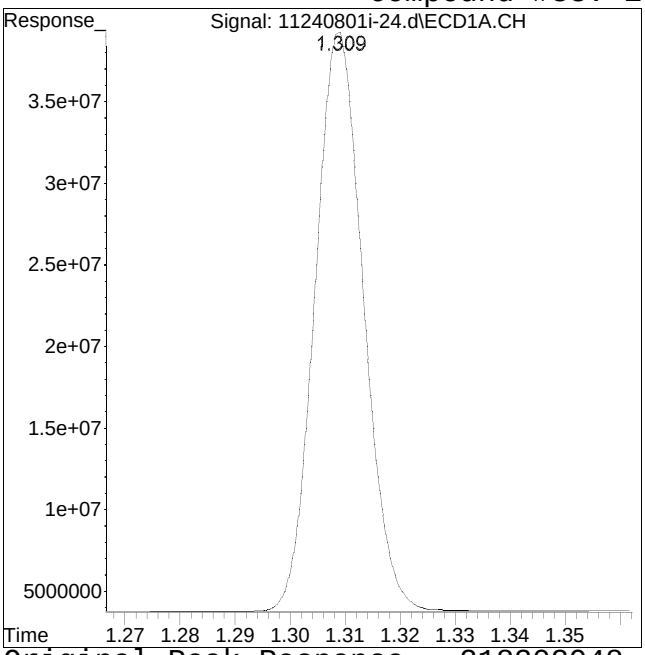
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



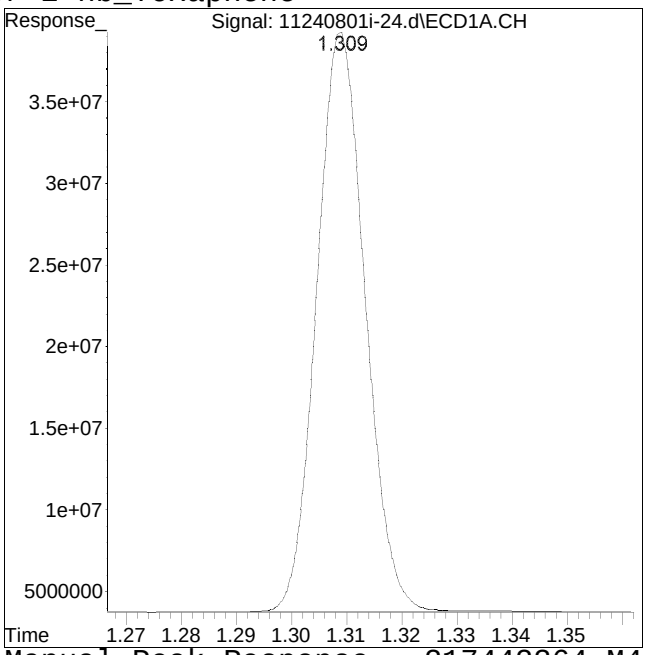
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-24.d
Date Inj'd : 8/1/2024 22:47
Sample : il7tox,42e,,pp 11701 L1.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:23 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 218302948



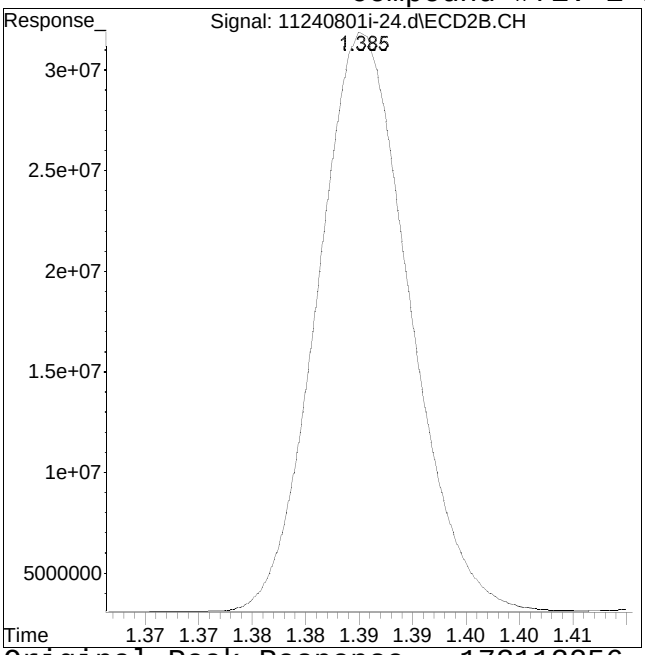
Manual Peak Response = 217442364 M4

M4 = Poor automated baseline construction.

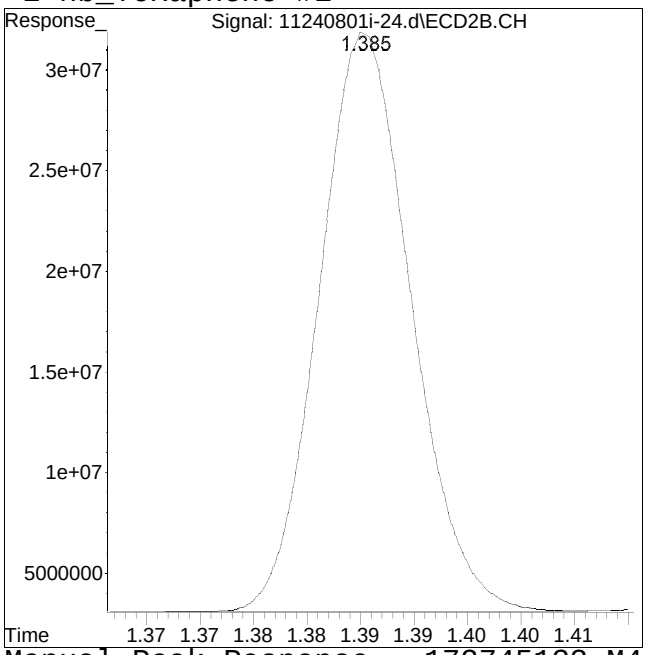
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-24.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:47 Instrument : Pest 11
Sample : il7tox,42e,,pp 11701 L1.0 Quant Date : 8/2/2024 12:23 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 173112256



Manual Peak Response = 172745133 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:59
Operator : PEST11:ejl
Sample : il8tox,42e,,pp 11700 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:20:35 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:20:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.385	226.5E6	177.8E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:59
Operator : PEST11:ejl
Sample : il8tox,42e,,pp 11700 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:20:35 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:20:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.443	5.084	1003.1E6	329.8E6	NoCal	NoCal
35) l2	toxaphene-3	4.567	5.112	782.8E6	491.2E6	NoCal M3	NoCal
36) l2	toxaphene-4	4.792	5.429	774.4E6	585.9E6	NoCal	NoCal
37) l2	toxaphene-5	5.168	5.836	711.9E6	540.3E6	NoCal	NoCal
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

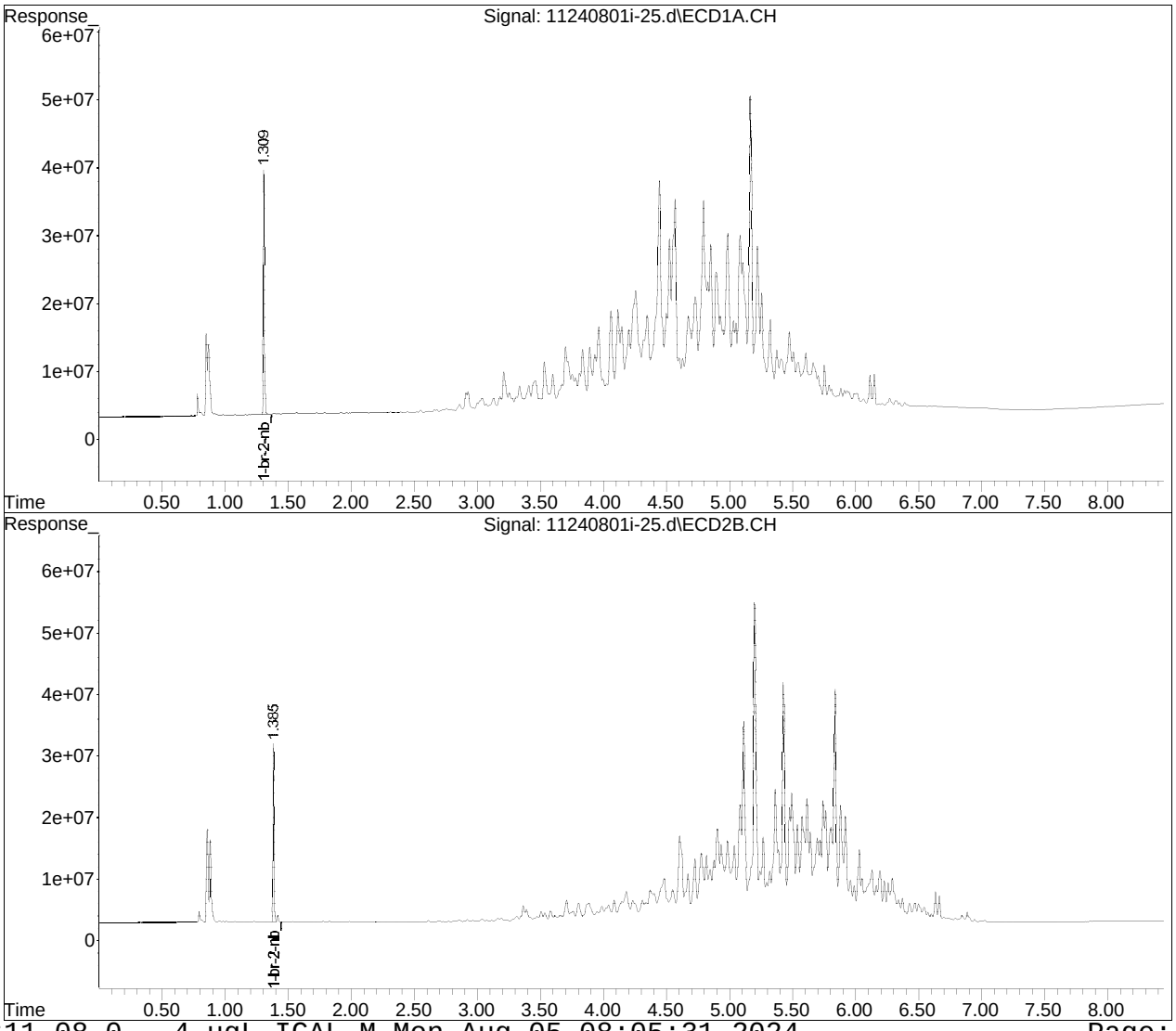
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:59
Operator : PEST11:ejl
Sample : il8tox,42e,,pp 11700 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:20:35 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:20:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

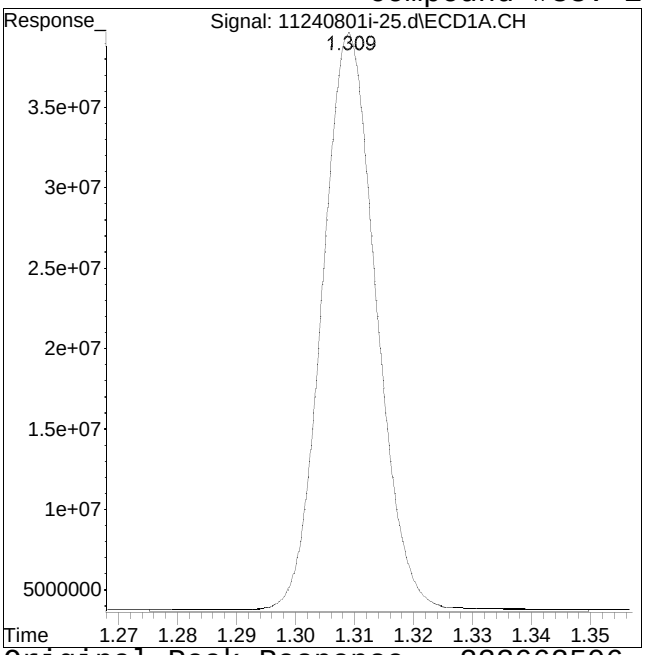
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



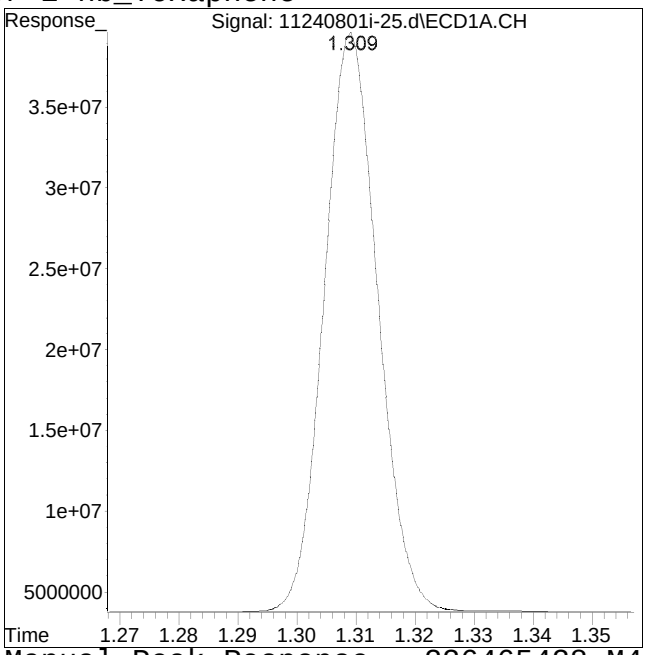
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-25.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:59 Instrument : Pest 11
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/2/2024 12:20 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 233662506



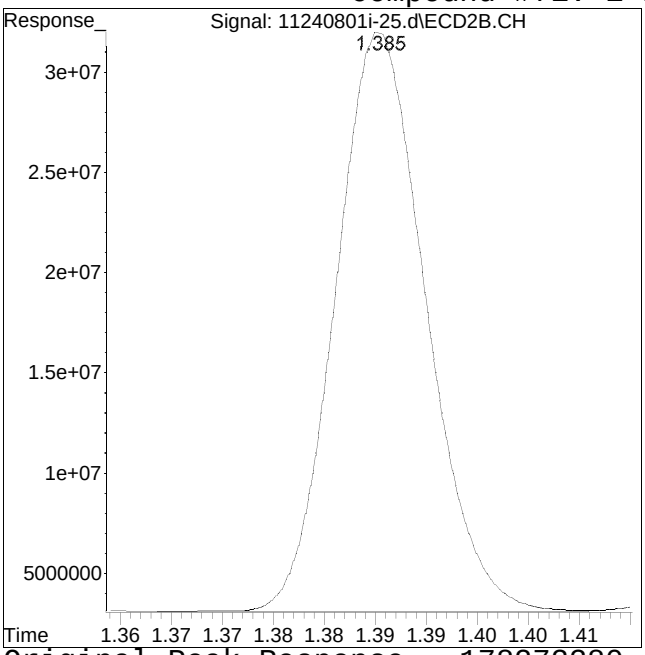
Manual Peak Response = 226465428 M4

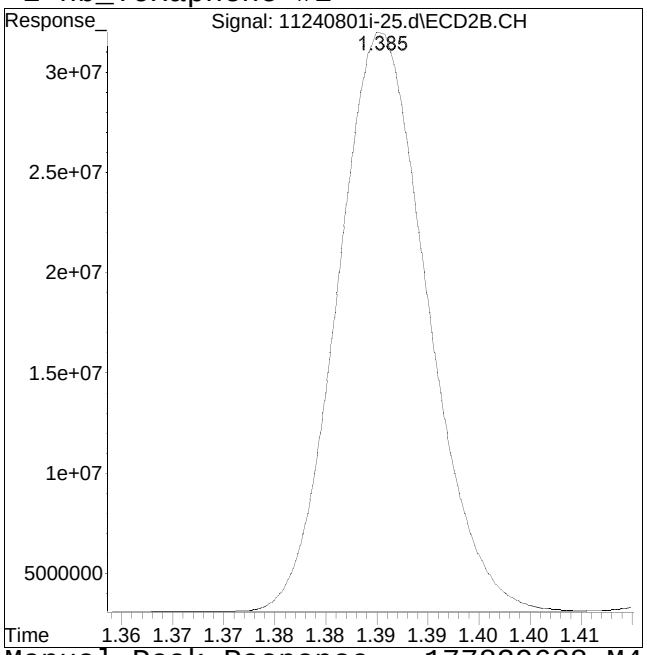
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-25.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:59 Instrument : Pest 11
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/2/2024 12:20 pm

Compound #71: 1-br-2-nb_Toxaphene #2



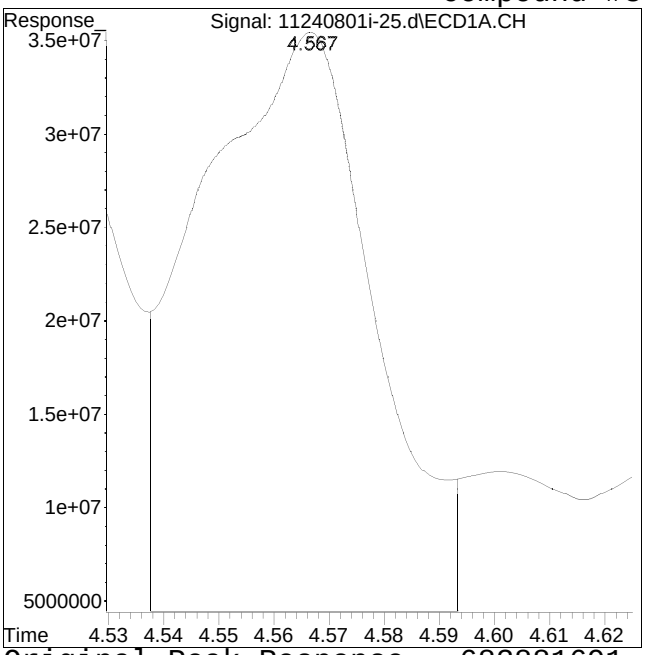


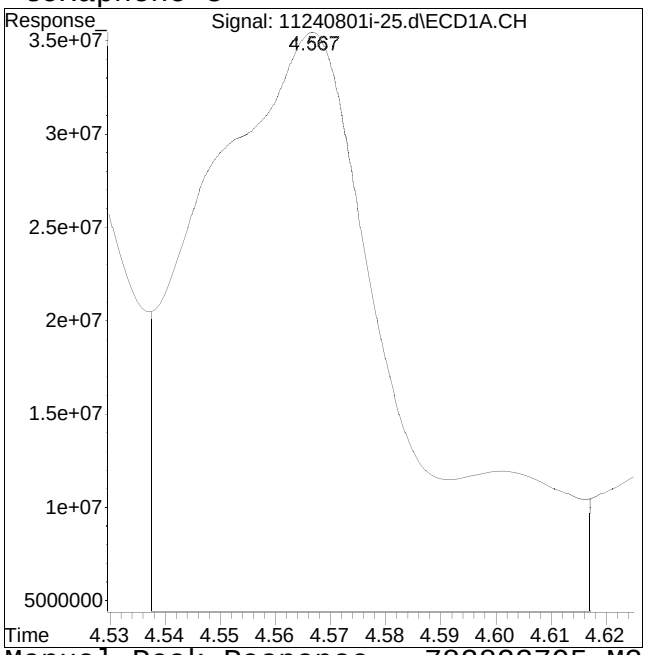
Original Peak Response = 178272380 Manual Peak Response = 177839688 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-25.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:59 Instrument : Pest 11
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/2/2024 12:20 pm

Compound #35: toxaphene-3





Original Peak Response = 683881691 Manual Peak Response = 782823795 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:11
Operator : PEST11:ejl
Sample : il9tox,42e,,pp 11695 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:22:02 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:21:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.386	224.3E6	174.1E6	25.000M3	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:11
Operator : PEST11:ejl
Sample : il9tox,42e,,pp 11695 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:22:02 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:21:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.442	5.084	2515.7E6	823.1E6	5063.269	5099.870
35) l2	toxaphene-3	4.566	5.113	1976.6E6	1216.3E6	5097.738	5059.169
36) l2	toxaphene-4	4.791	5.430	2005.0E6	1467.5E6	5227.075M3	5116.982
37) l2	toxaphene-5	5.167	5.836	1793.0E6	1350.3E6	5084.921	5105.955
Sum	toxaphene-2			8290.1E6	4857.3E6	20473.004	20381.976
Average	toxaphene-2					5118.251	5095.494

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			8290.1E6	4857.3E6	20473.004	20381.976
Average	toxaphene-2					5118.251	5095.494

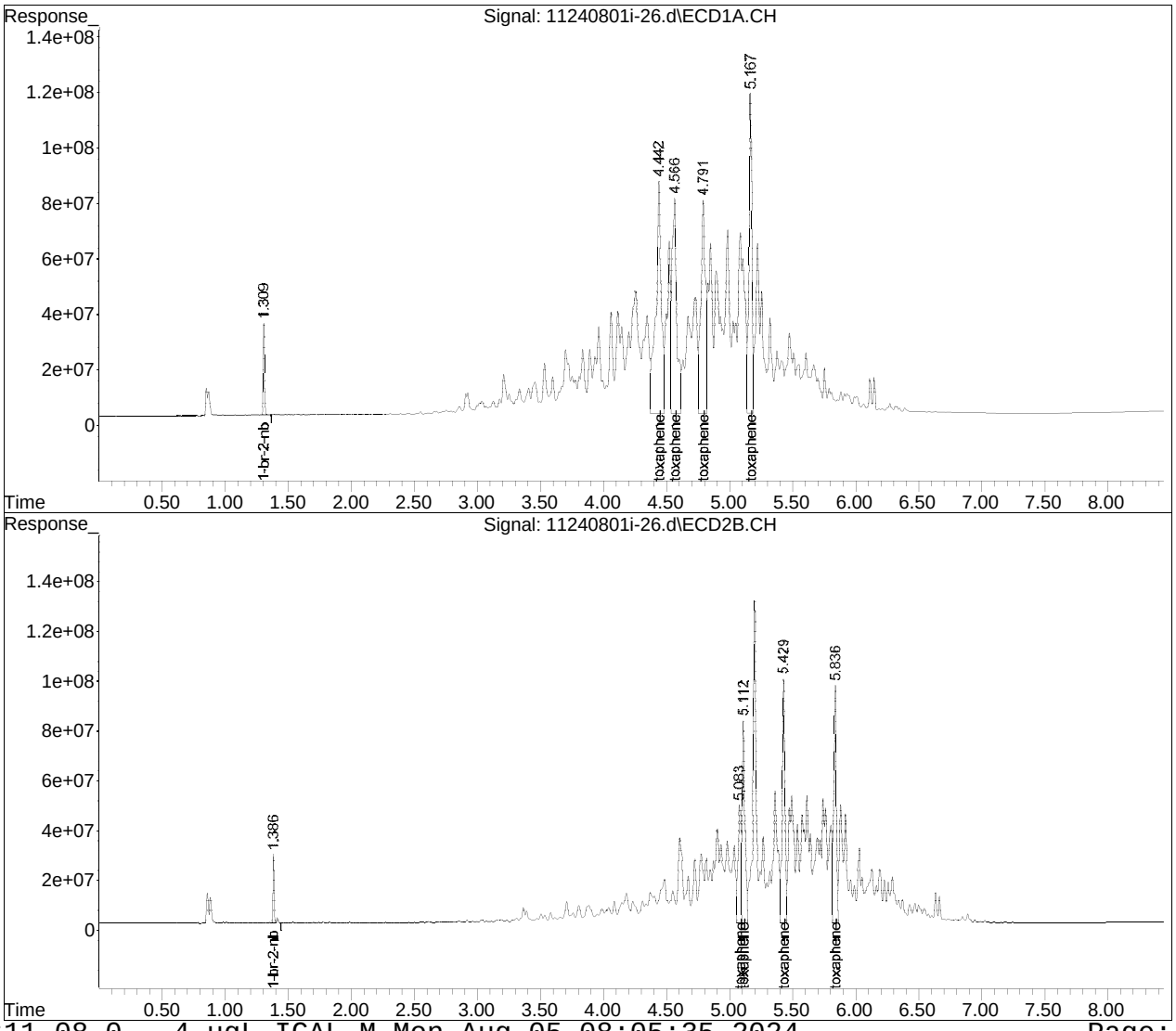
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:11
Operator : PEST11:ejl
Sample : il9tox,42e,,pp 11695 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:22:02 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:21:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

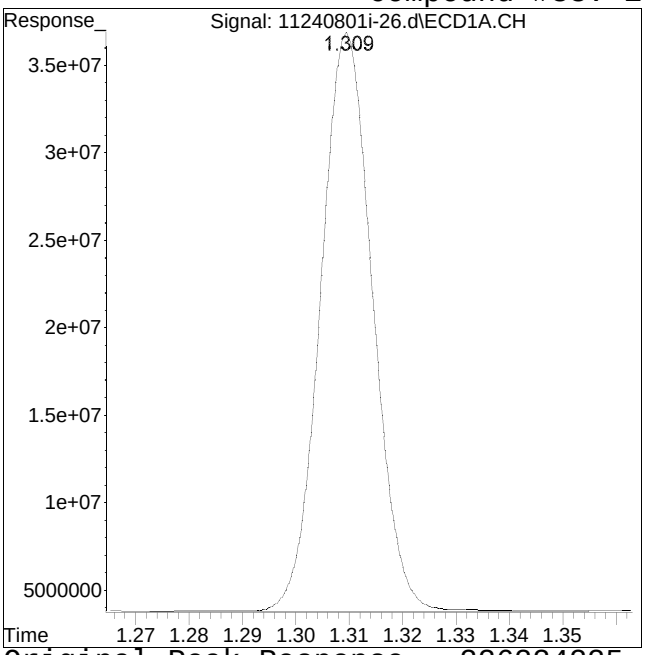
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

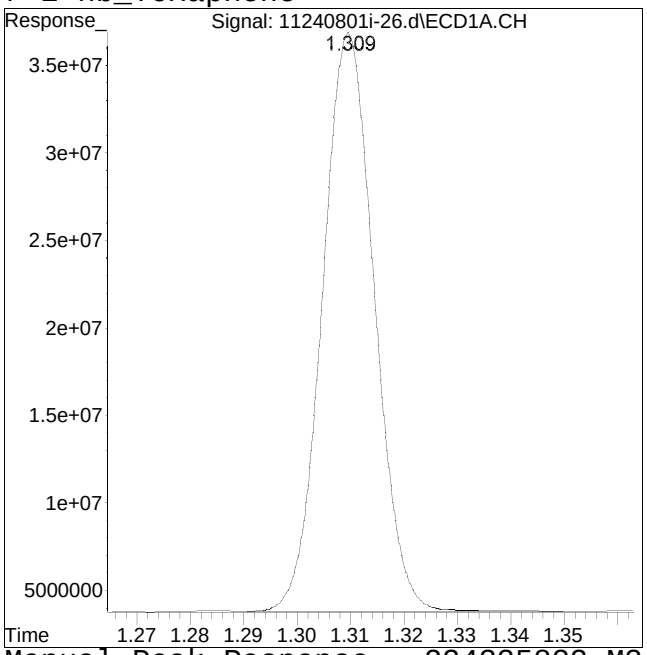


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-26.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:11 Instrument : Pest 11
Sample : il9tox,42e,,pp 11695 L5.0 Quant Date : 8/2/2024 12:22 pm

Compound #33: 1-br-2-nb_Toxaphene



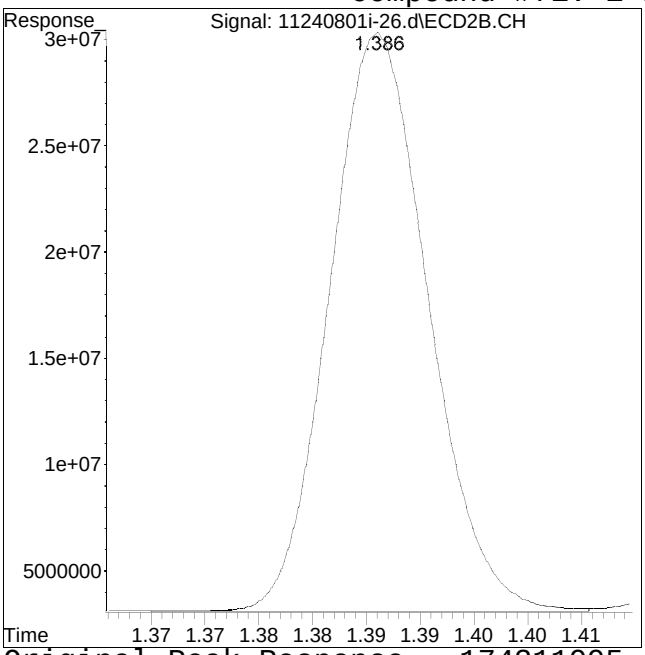


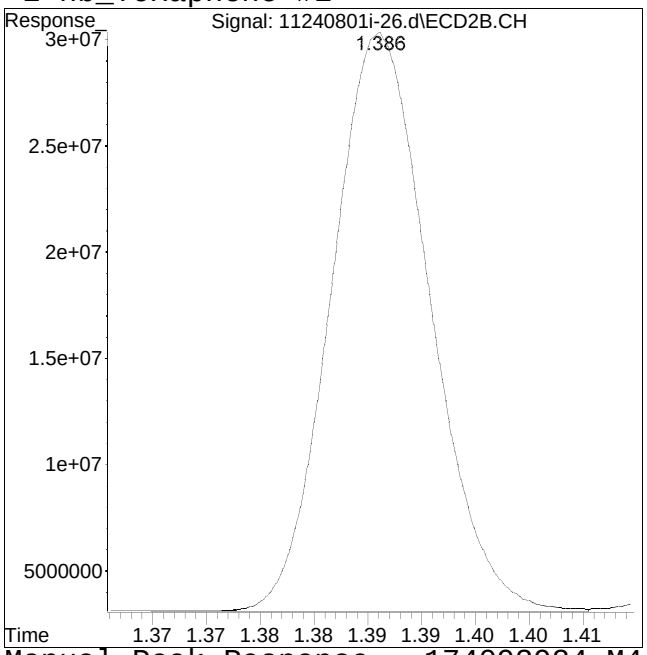
Original Peak Response = 226224225 Manual Peak Response = 224335822 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-26.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:11 Instrument : Pest 11
Sample : il9tox,42e,,pp 11695 L5.0 Quant Date : 8/2/2024 12:22 pm

Compound #71: 1-br-2-nb_Toxaphene #2



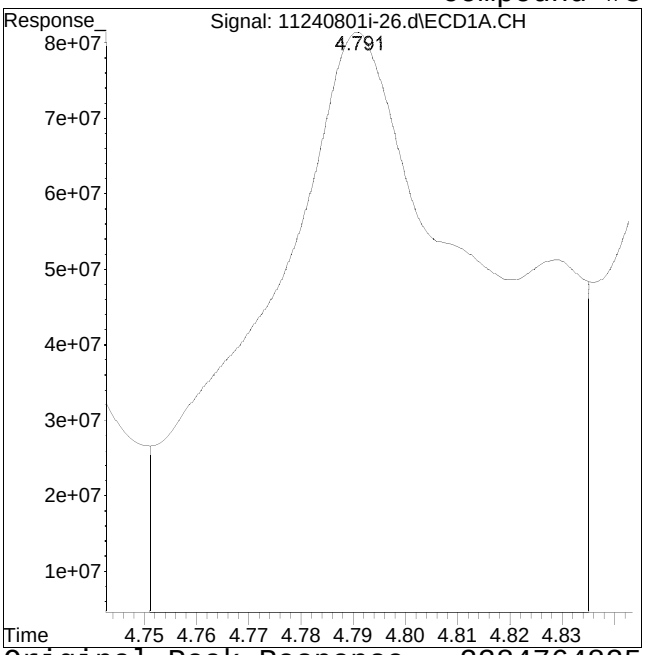


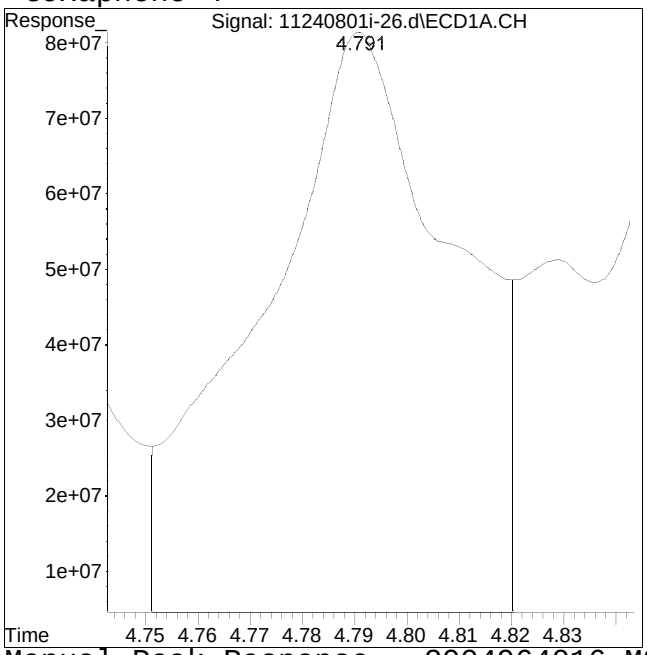
Original Peak Response = 174311995 Manual Peak Response = 174093924 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-26.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:11 Instrument : Pest 11
Sample : il9tox,42e,,pp 11695 L5.0 Quant Date : 8/2/2024 12:22 pm

Compound #36: toxaphene-4





Original Peak Response = 2384764825 Manual Peak Response = 2004964016 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample   : cicvtox,42e,,pp 11668 L2.0ICV
Misc   : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	102	0.00
34	l2	toxaphene-2		*2000.000	1966.030	1.7	97	0.00
35	l2	toxaphene-3		*2000.000	1837.511	8.1	91	0.00
36	l2	toxaphene-4		*2000.000	1758.818	12.1	89	0.00
37	l2	toxaphene-5		*2000.000	1870.162	6.5	93	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	102	0.00
34	l2	toxaphene-2		*2000.000	1898.603	5.1	96	0.00
35	l2	toxaphene-3		*2000.000	1889.204	5.5	95	0.00
36	l2	toxaphene-4		*2000.000	1769.287	11.5	90	0.00
37	l2	toxaphene-5		*2000.000	1896.013	5.2	96	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.31#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.65#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.87#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.96#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.17#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.22#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.35#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.51#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.76#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.88#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.97#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.30#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.42#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample   : cicvtox,42e,,pp 11668 L2.0ICV
Misc   : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.56#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.66#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.69#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.96#
18	t	Endrin		1.153	0.000	100.0#	0#	-4.21#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.32#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.45#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.62#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.87#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-5.10#
24	t	Mirex		0.938	0.000	100.0#	0#	-5.16#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.26#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.49#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.29#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.31#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.45#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.87#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.42#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.55#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.39#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.86#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.18#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.27#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.56#
6	t	beta-BHC		* 50.000	0.000	100.0#	0	-2.62#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.89#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample   : cicvtox,42e,,pp 11668 L2.0ICV
Misc   : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.95#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.27#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.15#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.51#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.88#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-4.10#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.27#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.47#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.34#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.63#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.93#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-5.05#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-5.13#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.33#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.42#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.89#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.02#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.65#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-6.06#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.92#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.39#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.82#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.42#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.10#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.28#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample : cicvtox,42e,,pp 11668 L2.0ICV
Misc : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.386	223.1E6	177.4E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample : cicvtox,42e,,pp 11668 L2.0ICV
Misc : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.443	5.084	975.4E6	317.3E6	1966.030	1898.603
35) l2	toxaphene-3	4.567	5.112	712.2E6	467.1E6	1837.511	1889.204
36) l2	toxaphene-4	4.792	5.430	686.8E6	525.1E6	1758.818M3	1769.287
37) l2	toxaphene-5	5.168	5.836	662.9E6	518.4E6	1870.162	1896.013
Sum	toxaphene-2			3037.3E6	1827.9E6	7432.520	7453.107
Average	toxaphene-2					1858.130	1863.277

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			3037.3E6	1827.9E6	7432.520	7453.107
Average	toxaphene-2					1858.130	1863.277

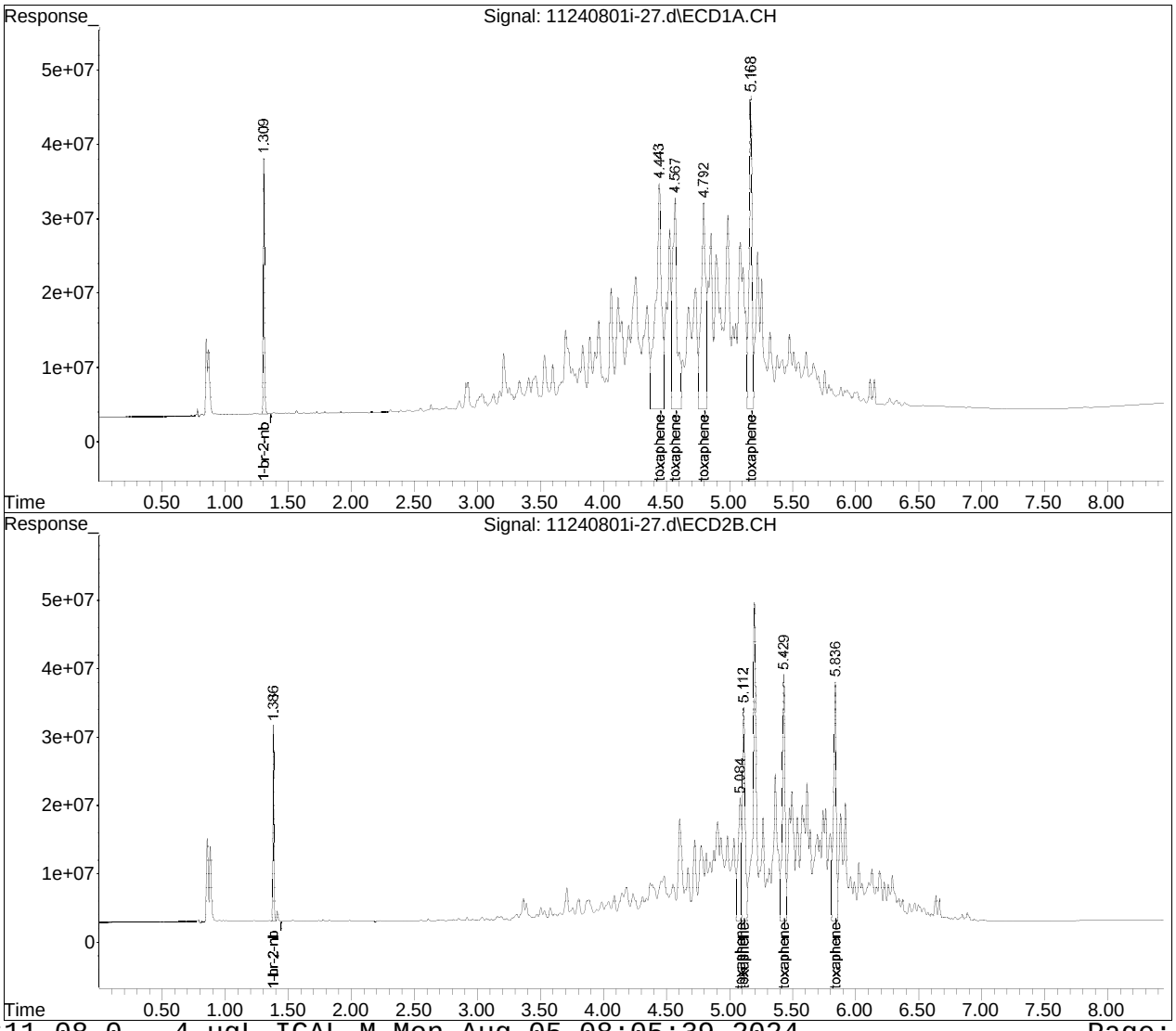
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample : cicvtox,42e,,pp 11668 L2.0ICV
Misc : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

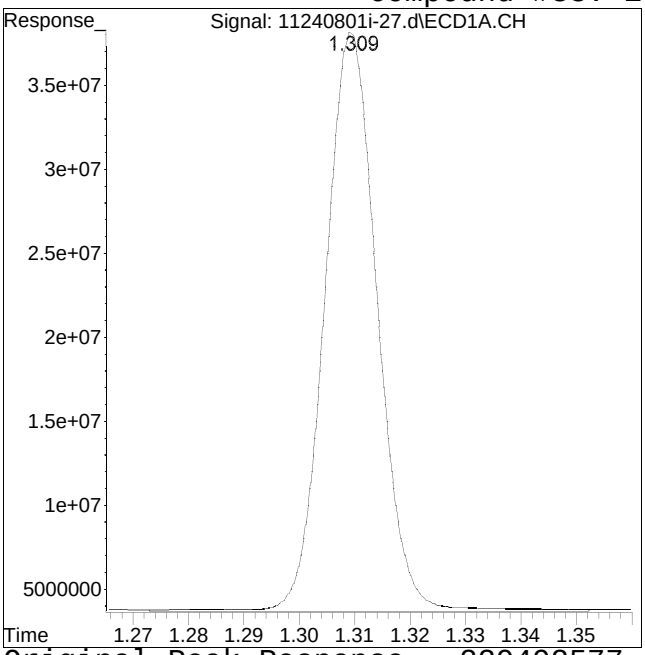
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

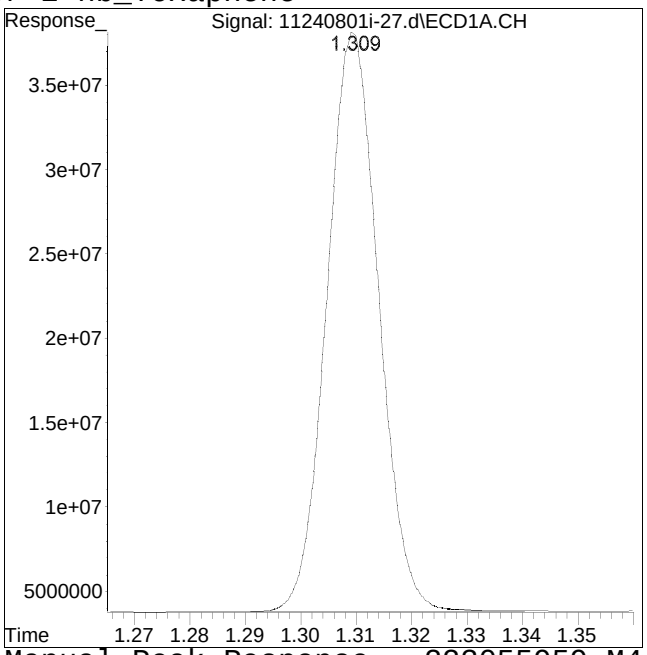


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-27.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:23 Instrument : Pest 11
Sample : cicvtox,42e,,pp 11668 L2.0 Quant Date : 8/2/2024 12:29 pm

Compound #33: 1-br-2-nb_Toxaphene





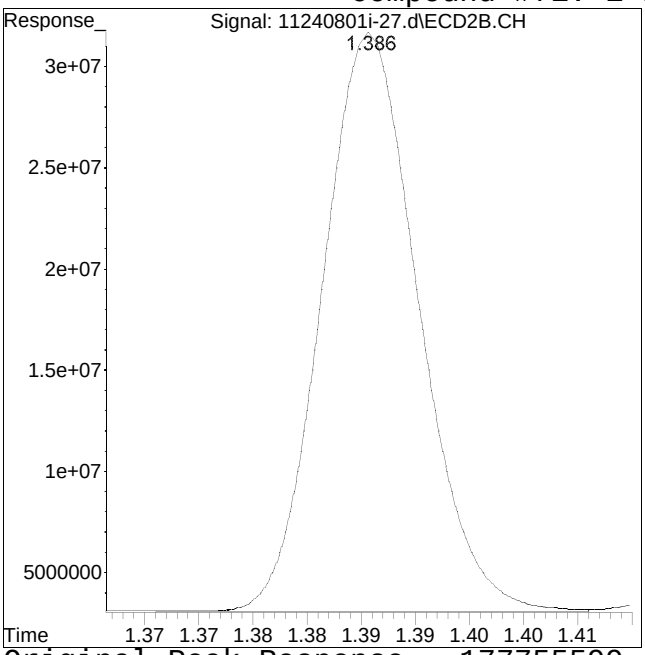
Original Peak Response = 229492577 Manual Peak Response = 223055959 M4
M4 = Poor automated baseline construction.

Manual Integration Report

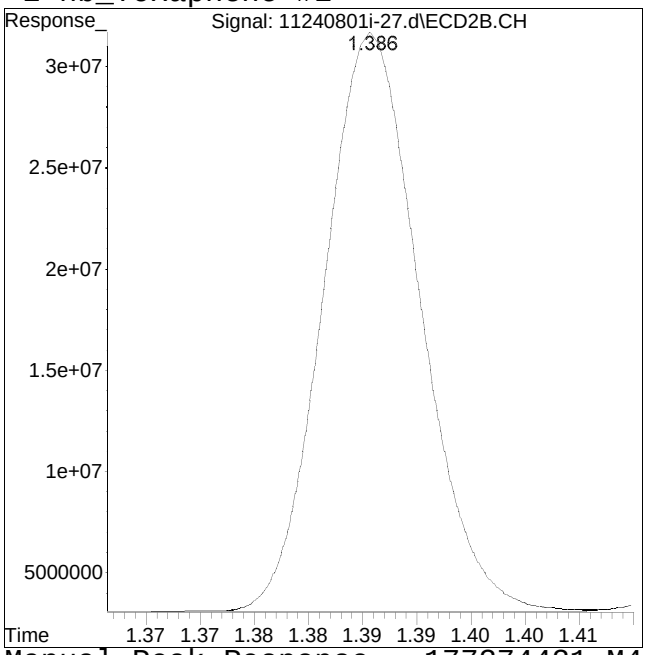
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-27.d
Date Inj'd : 8/1/2024 23:23
Sample : cicvtox,42e,,pp 11668 L2.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:29 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 177755599



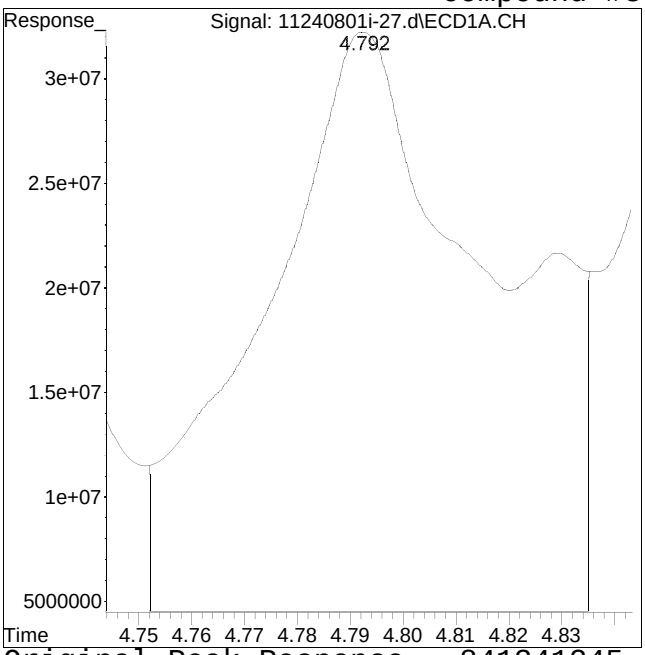
Manual Peak Response = 177374421 M4

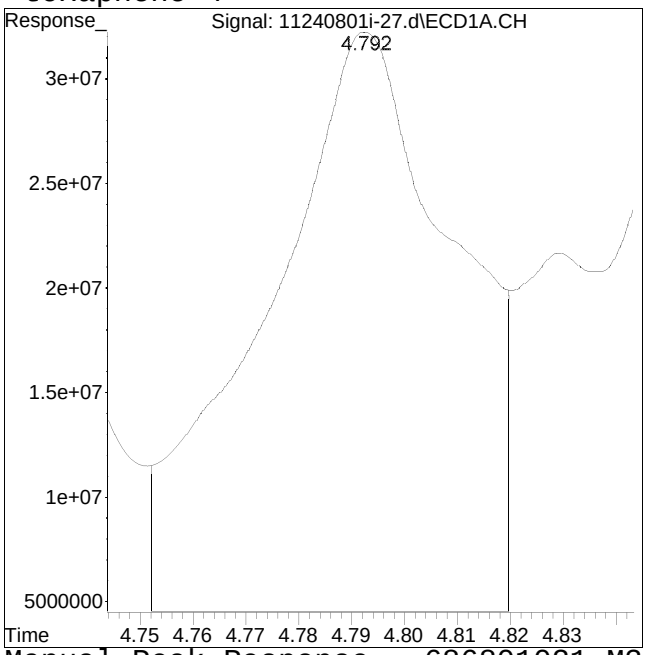
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-27.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:23 Instrument : Pest 11
Sample : cicvtox,42e,,pp 11668 L2.0Quant Date : 8/2/2024 12:29 pm

Compound #36: toxaphene-4





Original Peak Response = 841341245 Manual Peak Response = 686801021 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Relative Error Report Pest 11

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
29	L1 chlordane-1	L	ug/l	1000.0	1038.450	3.8	10.00	9.627	-3.7
30	L1 chlordane-3	L	ug/l	1000.0	1075.547	7.6	10.00	7.099	-29.0
31	L1 chlordane-4	L	ug/l	1000.0	1057.641	5.8	10.00	9.470	-5.3
32	L1 chlordane-5	L	ug/l	1000.0	1065.479	6.5	10.00	9.042	-9.6
34	L2 toxaphene-2	L	ug/l	2000.0	1991.278	-0.4	20.00	22.016	10.1
35	L2 toxaphene-3	L	ug/l	2000.0	1988.580	-0.6	20.00	22.909	14.5
36	L2 toxaphene-4	L	ug/l	2000.0	1952.950	-2.4	20.00	22.256	11.3
37	L2 toxaphene-5	L	ug/l	2000.0	1978.581	-1.1	20.00	20.714	3.6
44	T beta-BHC #2	L	ug/l	50.0	50.907	1.8	1.00	0.790	-21.0
48	T Alachlor #2	L	ug/l	50.0	53.910	7.8	2.00	1.484	-25.8
49	T Chlorpyrifos #2	L	ug/l	50.0	52.668	5.3	2.00	1.609	-19.6
60	T Endrin Aldehyde #2	L	ug/l	50.0	50.418	0.8	1.00	0.856	-14.4
62	T Mirex #2	L	ug/l	50.0	50.877	1.8	2.00	1.727	-13.6
67	L1 chlordane-1 #2	L	ug/l	1000.0	1065.397	6.5	10.00	7.110	-28.9
68	L1 chlordane-3 #2	L	ug/l	1000.0	1115.565	11.6	10.00	5.208	-47.9
69	L1 chlordane-4 #2	L	ug/l	1000.0	1071.147	7.1	10.00	8.535	-14.6
70	L1 chlordane-5 #2	L	ug/l	1000.0	1069.213	6.9	10.00	8.307	-16.9
72	L2 toxaphene-2 #2	L	ug/l	2000.0	1968.160	-1.6	20.00	17.722	-11.4
73	L2 toxaphene-3 #2	L	ug/l	2000.0	1981.747	-0.9	20.00	18.240	-8.8
74	L2 toxaphene-4 #2	L	ug/l	2000.0	1969.518	-1.5	20.00	19.050	-4.7
75	L2 toxaphene-5 #2	L	ug/l	2000.0	1971.269	-1.4	20.00	18.840	-5.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
29	L1 chlordane-1	Linear	0.999348	0.000000	0.0363716	0.00108757
30	L1 chlordane-3	Linear	0.997393	0.000000	0.0421132	0.0078182
31	L1 chlordane-4	Linear	0.998643	0.000000	0.155448	0.0068286
32	L1 chlordane-5	Linear	0.998228	0.000000	0.238606	0.0109807
34	L2 toxaphene-2	Linear	0.999824	0.000000	0.055848	-0.0188813
35	L2 toxaphene-3	Linear	0.999518	0.000000	0.0436385	-0.01444
36	L2 toxaphene-4	Linear	0.999238	0.000000	0.0438591	-0.00655081
37	L2 toxaphene-5	Linear	0.999880	0.000000	0.0395938	0.00995327
44	T beta-BHC #2	Linear	0.999559	0.000000	0.62395	0.0144288
48	T Alachlor #2	Linear	0.996730	0.000000	0.176781	0.0129204
49	T Chlorpyrifos #2	Linear	0.998303	0.000000	0.678141	0.0439823
60	T Endrin Aldehyde #2	Linear	0.999312	0.000000	0.92637	0.0145142
62	T Mirex #2	Linear	0.999318	0.000000	0.884014	0.0427365
67	L1 chlordane-1 #2	Linear	0.996325	0.000000	0.0369026	0.0110712
68	L1 chlordane-3 #2	Linear	0.991238	0.000000	0.0403855	0.0197671
69	L1 chlordane-4 #2	Linear	0.995940	0.000000	0.155283	0.0303717
70	L1 chlordane-5 #2	Linear	0.996066	0.000000	0.119242	0.0251686
72	L2 toxaphene-2 #2	Linear	0.999654	0.000000	0.0234841	0.00538869
73	L2 toxaphene-3 #2	Linear	0.999781	0.000000	0.0347383	0.00824347
74	L2 toxaphene-4 #2	Linear	0.999739	0.000000	0.0417228	0.00770414
75	L2 toxaphene-5 #2	Linear	0.999723	0.000000	0.0383851	0.0113923

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/27/24 09:26		
Lab File ID	: 11240927a-03	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1977176-1	**Init. Calib. Times**	: 18:37	23:11	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	134	0
2,4,5,6-Tetrachloro-m-xylen	1.039	1.001	-	3.7	20	125	0
Hexachlorobenzene	1.406	1.089	-	22.5*	20	106	0
alpha-BHC	1.461	1.536	-	-5.1	20	127	0
gamma-BHC (lindane)	1.395	1.374	-	1.5	20	123	0
beta-BHC	0.628	0.582	-	7.3	20	125	0
delta-BHC	1.374	1.363	-	0.8	20	121	0
Heptachlor	1.321	1.366	-	-3.4	20	131	0
Aldrin	1.233	1.272	-	-3.2	20	129	0
Alachlor	0.23	0.182	-	20.9*	20	105	0
Chlorpyrifos	0.59	0.607	-	-2.9	20	147	0
Heptachlor Epoxide	1.185	1.163	-	1.9	20	126	0
gamma-Chlordane (trans)	1.077	1.233	-	-14.5	20	149	0
alpha-Chlordane (cis)	1.216	1.211	-	0.4	20	129	0
4,4'-DDE	1.192	1.197	-	-0.4	20	127	0
Endosulfan I	1.116	1.115	-	0.1	20	129	0
Dieldrin	1.135	1.256	-	-10.7	20	140	0
Endrin	1.153	1.18	-	-2.3	20	129	0
4,4'-DDD	0.927	1.008	-	-8.7	20	138	0
Endosulfan II	1.052	1.086	-	-3.2	20	132	0
4,4'-DDT	1.058	1.113	-	-5.2	20	134	0
Endrin Aldehyde	0.886	0.808	-	8.8	20	120	0
Methoxychlor	0.592	0.605	-	-2.2	20	140	0
Mirex	0.938	0.949	-	-1.2	20	141	0
Endosulfan Sulfate	1.01	1.076	-	-6.5	20	142	0
Endrin Ketone	1.183	1.235	-	-4.4	20	135	0
Decachlorobiphenyl	1.163	0.956	-	17.8	20	120	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/27/24 09:26		
Lab File ID	: 11240927a-03	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1977176-1	**Init. Calib. Times**	: 18:37	23:11	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	118	0
2,4,5,6-Tetrachloro-m-xyl	1.114	0.951	-	14.6	20	101	0
Hexachlorobenzene	1.239	0.998	-	19.5	20	100	0
alpha-BHC	1.62	1.4	-	13.6	20	96	0
gamma-BHC (lindane)	1.539	1.254	-	18.5	20	95	0
beta-BHC	50	42.935	-	14.1	20	97	0
delta-BHC	1.523	1.239	-	18.6	20	92	0
Heptachlor	1.598	1.217	-	23.8*	20	90	0
Aldrin	1.435	1.134	-	21*	20	91	0
Alachlor	50	47.901	-	4.2	20	103	0
Chlorpyrifos	50	40.92	-	18.2	20	90	0
Heptachlor Epoxide	1.425	1.057	-	25.8*	20	90	0
gamma-Chlordane (trans)	1.312	1.095	-	16.5	20	103	0
alpha-Chlordane (cis)	1.446	1.068	-	26.1*	20	91	0
4,4'-DDE	1.343	1.053	-	21.6*	20	90	0
Endosulfan I	1.332	0.993	-	25.5*	20	91	0
Dieldrin	1.327	1.123	-	15.4	20	99	0
Endrin	1.347	1.058	-	21.5*	20	92	0
4,4'-DDD	1.084	0.906	-	16.4	20	97	0
Endosulfan II	1.214	0.973	-	19.9	20	97	0
4,4'-DDT	1.25	0.978	-	21.8*	20	92	0
Endrin Aldehyde	50	39.036	-	21.9*	20	89	0
Methoxychlor	0.704	0.525	-	25.4*	20	96	0
Mirex	50	43.64	-	12.7	20	99	0
Endosulfan Sulfate	1.199	0.933	-	22.2*	20	97	0
Endrin Ketone	1.261	1.091	-	13.5	20	104	0
Decachlorobiphenyl	1.06	0.792	-	25.3*	20	97	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/27/24 09:38		
Lab File ID	: 11240927a-04	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1977176-2	**Init. Calib. Times**	: 18:37	23:11	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	139	0
chlordane-1	1000	986.542	-	1.3	20	133	0
chlordane-3	1000	997.501	-	0.2	20	130	0
chlordane-4	1000	1009.027	-	-0.9	20	133	0
chlordane-5	1000	1132.585	-	-13.3	20	149	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Calibration Date**	: 09/27/24 09:38
Lab File ID	: 11240927a-04	**Init. Calib. Date(s)**	: 08/01/24 08/01/24
Sample No	: WG1977176-2	**Init. Calib. Times**	: 18:37 23:11
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	116	0
chlordane-1	1000	849.499	-	15.1	20	93	0
chlordane-3	1000	876.19	-	12.4	20	91	0
chlordane-4	1000	792.104	-	20.8*	20	86	0
chlordane-5	1000	783.264	-	21.7*	20	85	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/27/24 09:50		
Lab File ID	: 11240927a-05	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1977176-3	**Init. Calib. Times**	: 18:37	23:11	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	148	0
toxaphene-2	2000	2495.744	-	-24.8*	20	179	0
toxaphene-3	2000	1978.955	-	1.1	20	142	0
toxaphene-4	2000	1838.006	-	8.1	20	135	0
toxaphene-5	2000	2281.858	-	-14.1	20	165	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/27/24 09:50		
Lab File ID	: 11240927a-05	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1977176-3	**Init. Calib. Times**	: 18:37	23:11	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	123	0
toxaphene-2	2000	1840.02	-	8	20	113	0
toxaphene-3	2000	1917.769	-	4.1	20	117	0
toxaphene-4	2000	1779.027	-	11	20	109	0
toxaphene-5	2000	1894.064	-	5.3	20	116	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/28/24 10:31		
Lab File ID	: 11240928a-03	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1977568-1	**Init. Calib. Times**	: 18:37	23:11	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	119	0
2,4,5,6-Tetrachloro-m-xylen	1.039	1.109	-	-6.7	20	124	0
Hexachlorobenzene	1.406	1.221	-	13.2	20	105	0
alpha-BHC	1.461	1.725	-	-18.1	20	127	0
gamma-BHC (lindane)	1.395	1.54	-	-10.4	20	123	0
beta-BHC	0.628	0.654	-	-4.1	20	125	0
delta-BHC	1.374	1.504	-	-9.5	20	119	0
Heptachlor	1.321	1.491	-	-12.9	20	127	0
Aldrin	1.233	1.391	-	-12.8	20	126	0
Alachlor	0.23	0.209	-	9.1	20	108	0
Chlorpyrifos	0.59	0.646	-	-9.5	20	139	0
Heptachlor Epoxide	1.185	1.254	-	-5.8	20	121	0
gamma-Chlordane (trans)	1.077	1.325	-	-23*	20	143	0
alpha-Chlordane (cis)	1.216	1.301	-	-7	20	123	0
4,4'-DDE	1.192	1.274	-	-6.9	20	121	0
Endosulfan I	1.116	1.188	-	-6.5	20	122	0
Dieldrin	1.135	1.351	-	-19	20	134	0
Endrin	1.153	1.273	-	-10.4	20	124	0
4,4'-DDD	0.927	1.067	-	-15.1	20	130	0
Endosulfan II	1.052	1.162	-	-10.5	20	126	0
4,4'-DDT	1.058	1.102	-	-4.2	20	118	0
Endrin Aldehyde	0.886	0.858	-	3.2	20	113	0
Methoxychlor	0.592	0.62	-	-4.7	20	127	0
Mirex	0.938	0.992	-	-5.8	20	131	0
Endosulfan Sulfate	1.01	1.121	-	-11	20	132	0
Endrin Ketone	1.183	1.292	-	-9.2	20	125	0
Decachlorobiphenyl	1.163	0.968	-	16.8	20	108	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/28/24 10:31		
Lab File ID	: 11240928a-03	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1977568-1	**Init. Calib. Times**	: 18:37	23:11	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	110	0
2,4,5,6-Tetrachloro-m-xyl	1.114	1.051	-	5.7	20	104	0
Hexachlorobenzene	1.239	1.115	-	10	20	104	0
alpha-BHC	1.62	1.563	-	3.5	20	99	0
gamma-BHC (lindane)	1.539	1.397	-	9.2	20	98	0
beta-BHC	50	47.215	-	5.6	20	99	0
delta-BHC	1.523	1.365	-	10.4	20	94	0
Heptachlor	1.598	1.334	-	16.5	20	92	0
Aldrin	1.435	1.253	-	12.7	20	94	0
Alachlor	50	52.988	-	-6	20	105	0
Chlorpyrifos	50	44.271	-	11.5	20	90	0
Heptachlor Epoxide	1.425	1.153	-	19.1	20	91	0
gamma-Chlordane (trans)	1.312	1.187	-	9.5	20	104	0
alpha-Chlordane (cis)	1.446	1.163	-	19.6	20	92	0
4,4'-DDE	1.343	1.136	-	15.4	20	90	0
Endosulfan I	1.332	1.084	-	18.6	20	92	0
Dieldrin	1.327	1.222	-	7.9	20	100	0
Endrin	1.347	1.14	-	15.4	20	92	0
4,4'-DDD	1.084	0.965	-	11	20	96	0
Endosulfan II	1.214	1.041	-	14.3	20	97	0
4,4'-DDT	1.25	1.028	-	17.8	20	90	0
Endrin Aldehyde	50	41.373	-	17.3	20	88	0
Methoxychlor	0.704	0.55	-	21.9*	20	93	0
Mirex	50	46.195	-	7.6	20	97	0
Endosulfan Sulfate	1.199	0.991	-	17.3	20	96	0
Endrin Ketone	1.261	1.155	-	8.4	20	103	0
Decachlorobiphenyl	1.06	0.822	-	22.5*	20	94	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Calibration Date**	: 09/28/24 10:43
Lab File ID	: 11240928a-04	**Init. Calib. Date(s)**	: 08/01/24 08/01/24
Sample No	: WG1977568-2	**Init. Calib. Times**	: 18:37 23:11
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	131	0
chlordane-1	1000	1044.381	-	-4.4	20	133	0
chlordane-3	1000	1050.773	-	-5.1	20	129	0
chlordane-4	1000	1040.976	-	-4.1	20	130	0
chlordane-5	1000	1165.121	-	-16.5	20	144	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Calibration Date**	: 09/28/24 10:43
Lab File ID	: 11240928a-04	**Init. Calib. Date(s)**	: 08/01/24 08/01/24
Sample No	: WG1977568-2	**Init. Calib. Times**	: 18:37 23:11
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	113	0
chlordane-1	1000	917.055	-	8.3	20	97	0
chlordane-3	1000	935.408	-	6.5	20	95	0
chlordane-4	1000	842.936	-	15.7	20	89	0
chlordane-5	1000	834.856	-	16.5	20	88	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Calibration Date**	: 09/28/24 10:55
Lab File ID	: 11240928a-05	**Init. Calib. Date(s)**	: 08/01/24 08/01/24
Sample No	: WG1977568-3	**Init. Calib. Times**	: 18:37 23:11
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	134	0
toxaphene-2	2000	2644.407	-	-32.2*	20	171	0
toxaphene-3	2000	2761.178	-	-38.1*	20	179	0
toxaphene-4	2000	1959.885	-	2	20	129	0
toxaphene-5	2000	2351.538	-	-17.6	20	153	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/28/24 10:55		
Lab File ID	: 11240928a-05	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1977568-3	**Init. Calib. Times**	: 18:37	23:11	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	112	0
toxaphene-2	2000	2039.307	-	-2	20	113	0
toxaphene-3	2000	2129.238	-	-6.5	20	118	0
toxaphene-4	2000	1962.651	-	1.9	20	109	0
toxaphene-5	2000	2061.267	-	-3.1	20	115	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2024   9:26
Operator : PEST11:akm
Sample   : wg1977176-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1977176,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:09:46 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:09:40 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	134	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	1.001	3.7	125	0.00
3	t	Hexachlorobenzene		1.406	1.089	22.5#	106	0.00
4	t	alpha-BHC		1.461	1.536	-5.1	127	0.00
5	t	gamma-BHC (lindane)		1.395	1.374	1.5	123	0.00
6	t	beta-BHC		0.628	0.582	7.3	125	0.00
7	t	delta-BHC		1.374	1.363	0.8	121	0.00
8	t	Heptachlor		1.321	1.366	-3.4	131	0.00
9	t	Aldrin		1.233	1.272	-3.2	129	0.00
10	t	Alachlor		0.230	0.182	20.9#	105	0.00
11	t	Chlorpyrifos		0.590	0.607	-2.9	147	0.00
12	t	Heptachlor Epoxide		1.185	1.163	1.9	126	0.00
13	t	gamma-Chlordane (trans)		1.077	1.233	-14.5	149	0.00
14	t	alpha-Chlordane (cis)		1.216	1.211	0.4	129	0.00
15	t	4,4'-DDE		1.192	1.197	-0.4	127	0.00
16	t	Endosulfan I		1.116	1.115	0.1	129	0.00
17	t	Dieldrin		1.135	1.256	-10.7	140	0.00
18	t	Endrin		1.153	1.180	-2.3	129	0.00
19	t	4,4'-DDD		0.927	1.008	-8.7	138	0.00
20	t	Endosulfan II		1.052	1.086	-3.2	132	0.00
21	t	4,4'-DDT		1.058	1.113	-5.2	134	0.00
22	t	Endrin Aldehyde		0.886	0.808	8.8	120	0.00
23	t	Methoxychlor		0.592	0.605	-2.2	140	0.00
24	t	Mirex		0.938	0.949	-1.2	141	0.00
25	t	Endosulfan Sulfate		1.010	1.076	-6.5	142	0.00
26	t	Endrin Ketone		1.183	1.235	-4.4	135	0.00
27	s	Decachlorobiphenyl		1.163	0.956	17.8	120	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2024   9:26
Operator : PEST11:akm
Sample   : wg1977176-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1977176,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:09:46 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:09:40 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	118	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.951	14.6	101	0.00
3	t	Hexachlorobenzene		1.239	0.998	19.5	100	0.00
4	t	alpha-BHC		1.620	1.400	13.6	96	0.00
5	t	gamma-BHC (lindane)		1.539	1.254	18.5	95	0.00
6	t	beta-BHC	*	50.000	42.935	14.1	97	0.00
7	t	delta-BHC		1.523	1.239	18.6	92	0.00
8	t	Heptachlor		1.598	1.217	23.8#	90	0.00
9	t	Aldrin		1.435	1.134	21.0#	91	0.00
10	t	Alachlor	*	50.000	47.901	4.2	103	0.00
11	t	Chlorpyrifos	*	50.000	40.920	18.2	90	0.00
12	t	Heptachlor Epoxide		1.425	1.057	25.8#	90	0.00
13	t	gamma-Chlordane (trans)		1.312	1.095	16.5	103	0.00
14	t	alpha-Chlordane (cis)		1.446	1.068	26.1#	91	0.00
15	t	4,4'-DDE		1.343	1.053	21.6#	90	0.00
16	t	Endosulfan I		1.332	0.993	25.5#	91	0.00
17	t	Dieldrin		1.327	1.123	15.4	99	0.00
18	t	Endrin		1.347	1.058	21.5#	92	0.00
19	t	4,4'-DDD		1.084	0.906	16.4	97	0.00
20	t	Endosulfan II		1.214	0.973	19.9	97	0.00
21	t	4,4'-DDT		1.250	0.978	21.8#	92	0.00
22	t	Endrin Aldehyde	*	50.000	39.036	21.9#	89	0.00
23	t	Methoxychlor		0.704	0.525	25.4#	96	0.00
24	t	Mirex	*	50.000	43.640	12.7	99	0.00
25	t	Endosulfan Sulfate		1.199	0.933	22.2#	97	0.00
26	t	Endrin Ketone		1.261	1.091	13.5	104	0.00
27	s	Decachlorobiphenyl		1.060	0.792	25.3#	97	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2024   9:26
Operator : PEST11:akm
Sample   : wg1977176-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1977176,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:09:46 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:09:40 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.19#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.27#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.66#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.19#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.31#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.19#
34	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.19#
35	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-4.33#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-4.57#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-4.96#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.26#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.61#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.19#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.84#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.01#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.26#
34	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.87#
35	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-4.90#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.23#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.65#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 9:26
Operator : PEST11:akm
Sample : wg1977176-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1977176,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:09:46 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:09:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.187	1.260	308.1E6	216.2E6	25.000M4	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.513	1.706	616.7E6	411.3E6	48.168M4	42.706
	Spiked Amount 50.000	Range 30 - 150		Recovery =		96.34%	85.41%
27) s	Decachlorobi	6.116	6.754	589.1E6	342.4E6	41.110M4	37.353M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		82.22%	74.71%
	Target Compounds						
3) t	Hexachlorobe	1.714	2.006	670.9E6	431.4E6	38.724M4	40.268M4
4) t	alpha-BHC	1.807	2.094	946.2E6	605.2E6	52.574M4	43.212
5) t	gamma-BHC (l	1.998	2.363	846.5E6	542.0E6	49.230	40.724
6) t	beta-BHC	2.051	2.427	358.4E6	234.8E6	46.324M4	42.935
7) t	delta-BHC	2.172	2.679	839.9E6	535.7E6	49.604	40.682
8) t	Heptachlor	2.326	2.736	841.7E6	526.3E6	51.711	38.099
9) t	Aldrin	2.555	3.038	783.8E6	490.2E6	51.581	39.505
10) t	Alachlor	2.674	2.933	112.4E6	76019776	39.607	47.901
11) t	Chlorpyrifos	2.763	3.271	373.8E6	249.5E6	51.432	40.920
12) t	Heptachlor E	3.074	3.626	716.3E6	457.2E6	49.036M4	37.092
13) t	gamma-Chlord	3.194	3.840	759.6E6	473.4E6	57.238	41.738
14) t	alpha-Chlord	3.322	4.007	745.9E6	461.9E6	49.768M4	36.940
15) t	4,4'-DDE	3.420	4.226	737.6E6	455.3E6	50.236	39.216

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 9:26
Operator : PEST11:akm
Sample : wg1977176-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1977176,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:09:46 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:09:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) t	Endosulfan I	3.451	4.069	687.0E6	429.5E6	49.954	37.288
17) t	Dieldrin	3.701	4.386	773.6E6	485.5E6	55.307	42.296
18) t	Endrin	3.946	4.701	726.8E6	457.3E6	51.162	39.272
19) t	4,4'-DDD	4.068	4.842	620.8E6	391.9E6	54.328	41.821
20) t	Endosulfan I	4.201	4.912	668.8E6	420.8E6	51.592	40.100
21) t	4,4'-DDT	4.386	5.129	685.5E6	422.9E6	52.556	39.122
22) t	Endrin Aldeh	4.646	5.222	497.9E6	315.8E6	45.581M3	39.036
23) t	Methoxychlor	4.907	5.715	372.6E6	226.9E6	51.087	37.250M4
24) t	Mirex	4.948	5.833	584.6E6	342.8E6	50.593	43.640M3
25) t	Endosulfan S	5.054	5.457	662.7E6	403.3E6	53.267	38.899
26) t	Endrin Keton	5.287	5.875	761.1E6	471.7E6	52.204	43.265
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 9:26
Operator : PEST11:akm
Sample : wg1977176-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1977176,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:09:46 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:09:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

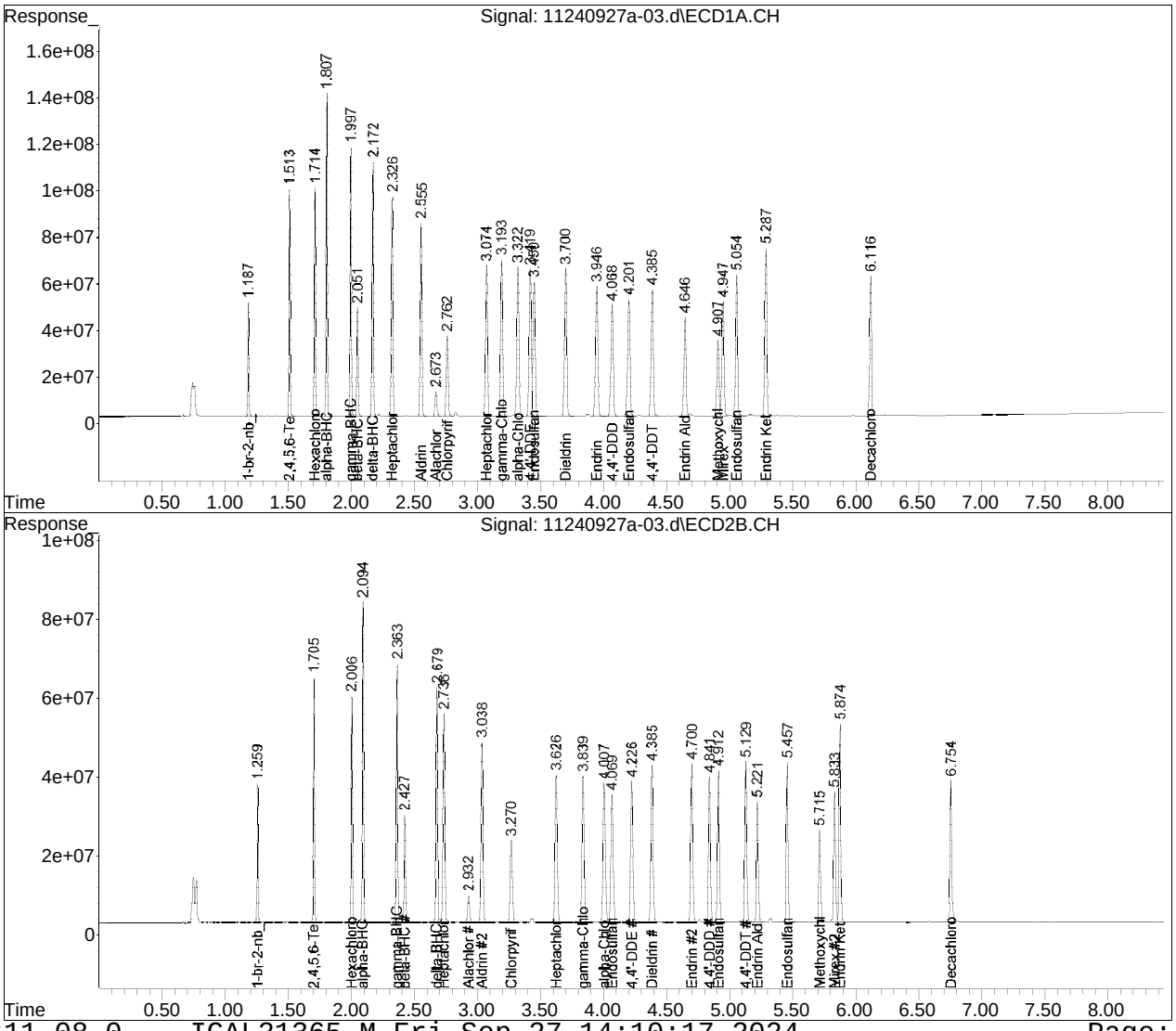
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 9:26
Operator : PEST11:akm
Sample : wg1977176-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1977176,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:09:46 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:09:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

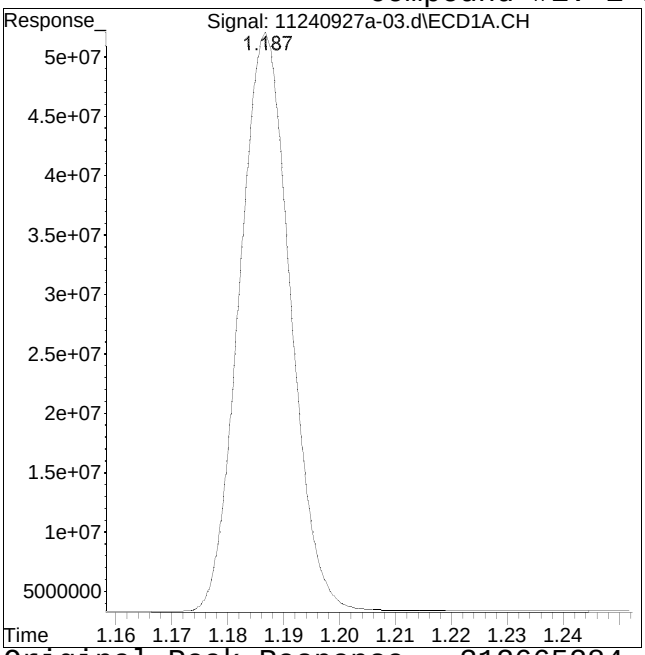
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



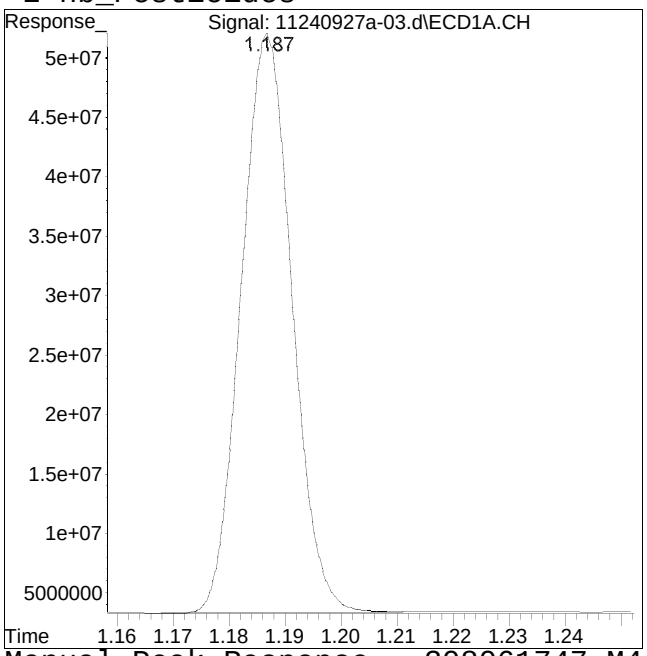
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-03.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:26 Instrument : Pest 11
Sample : wg1977176-1,42,,pest11675 Quant Date : 9/27/2024 10:09 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 312665284



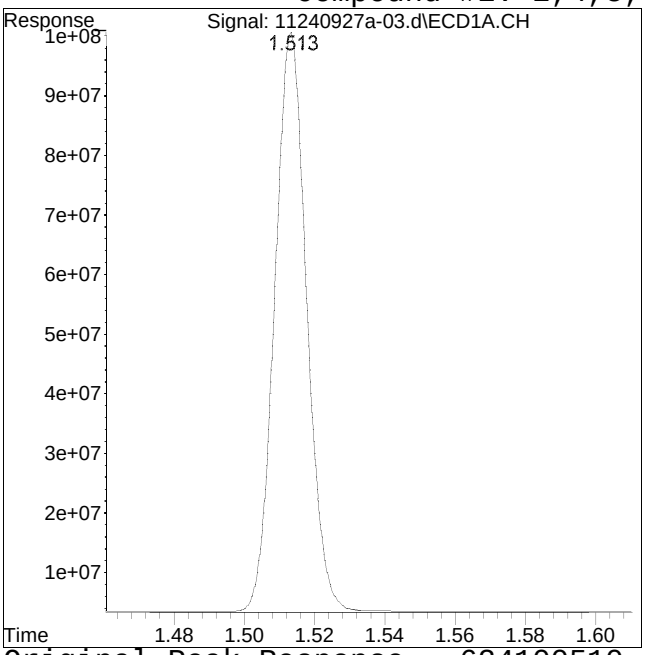
Manual Peak Response = 308061747 M4

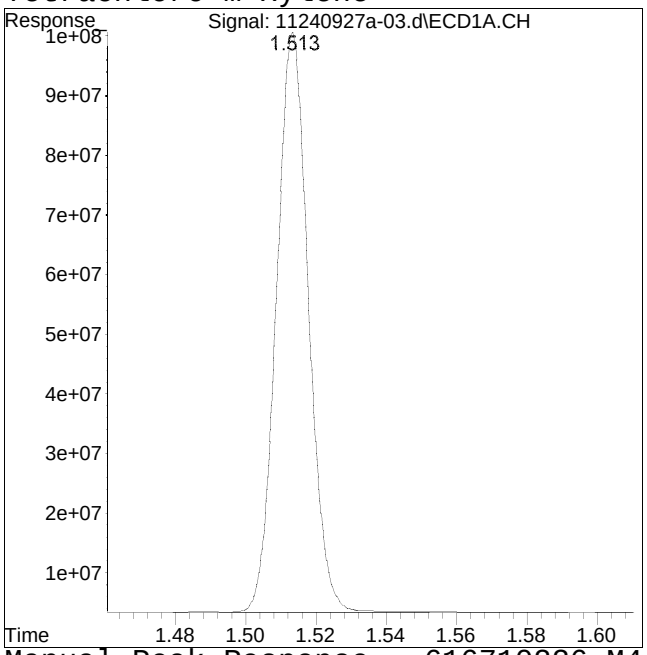
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-03.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:26 Instrument : Pest 11
Sample : wg1977176-1,42,,pest11675 Quant Date : 9/27/2024 10:09 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



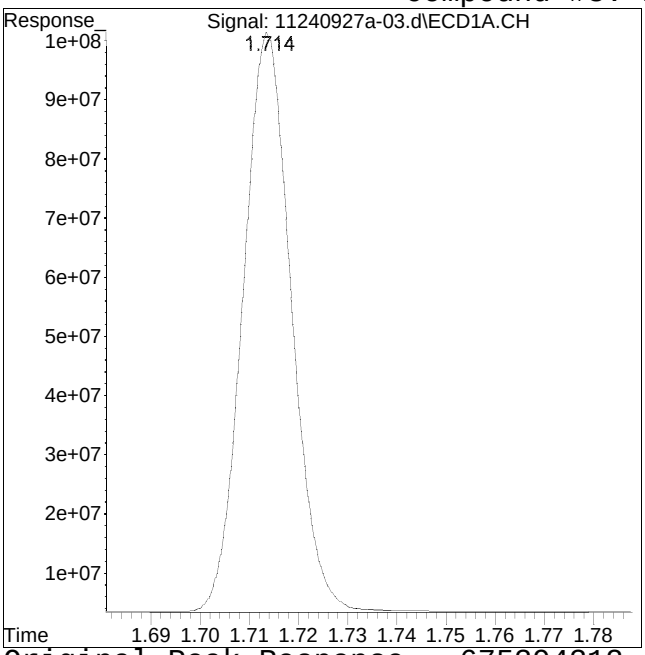


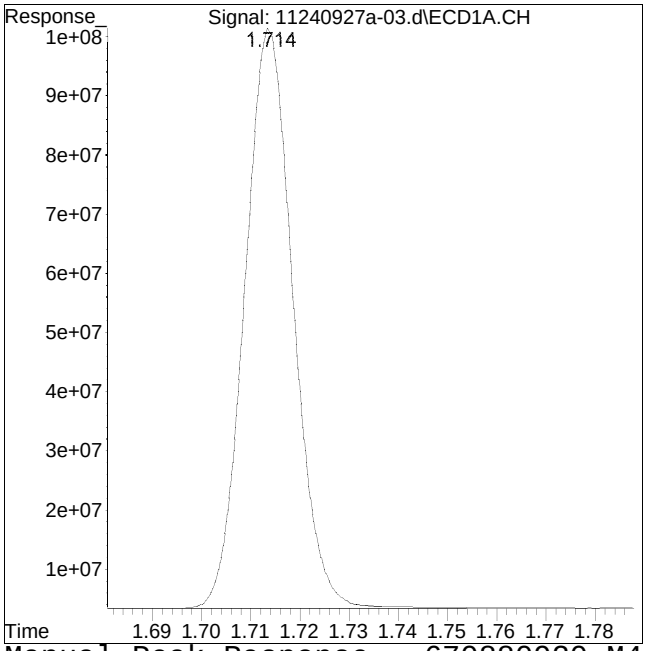
Original Peak Response = 624100510 Manual Peak Response = 616710226 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-03.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:26 Instrument : Pest 11
Sample : wg1977176-1,42,,pest11675 Quant Date : 9/27/2024 10:09 am

Compound #3: Hexachlorobenzene



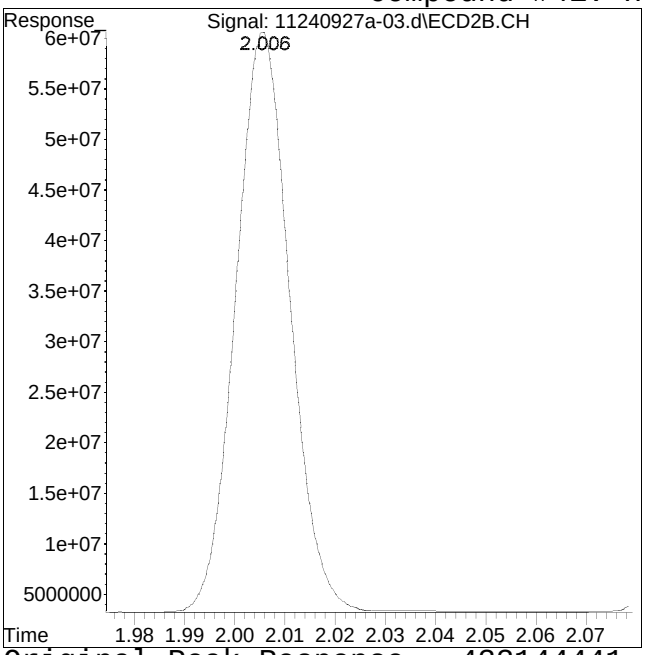


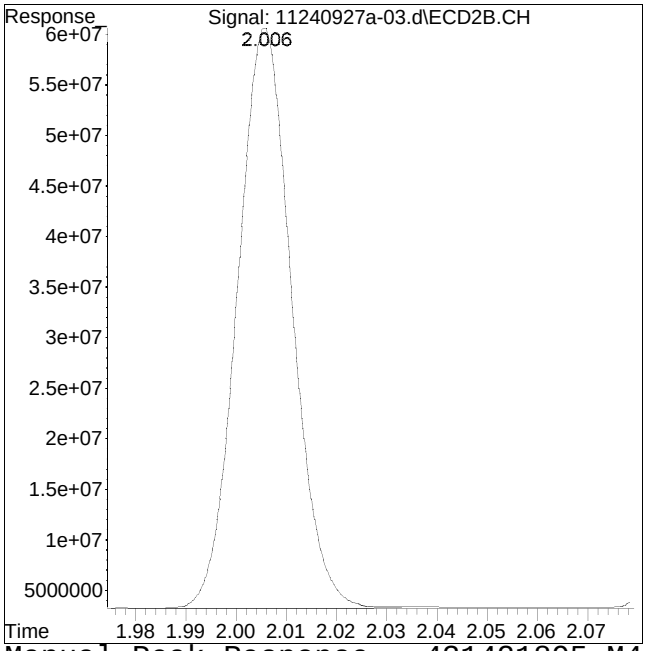
Original Peak Response = 675394312 Manual Peak Response = 670880920 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-03.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:26 Instrument : Pest 11
Sample : wg1977176-1,42,,pest11675 Quant Date : 9/27/2024 10:09 am

Compound #41: Hexachlorobenzene #2



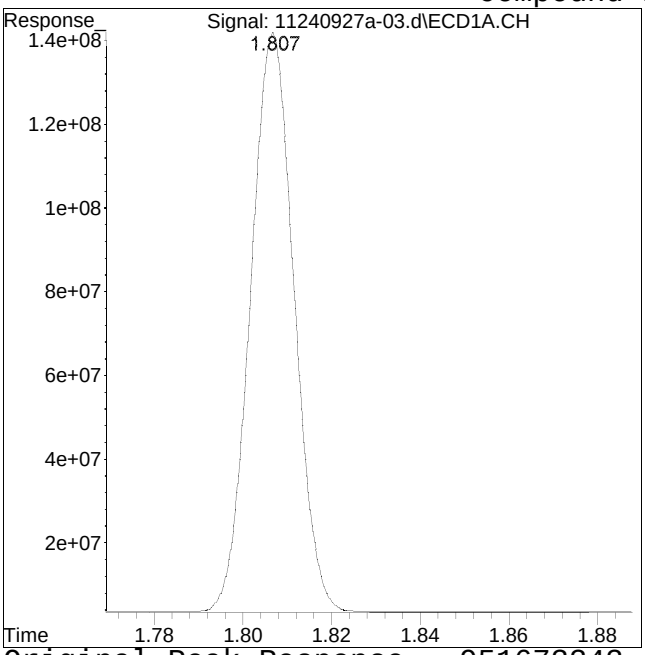


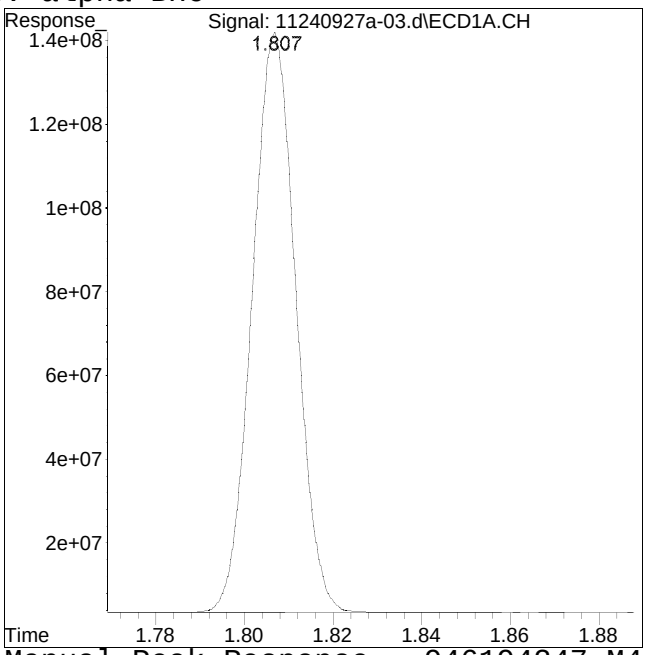
Original Peak Response = 433144441 Manual Peak Response = 431421895 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-03.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:26 Instrument : Pest 11
Sample : wg1977176-1,42,,pest11675 Quant Date : 9/27/2024 10:09 am

Compound #4: alpha-BHC



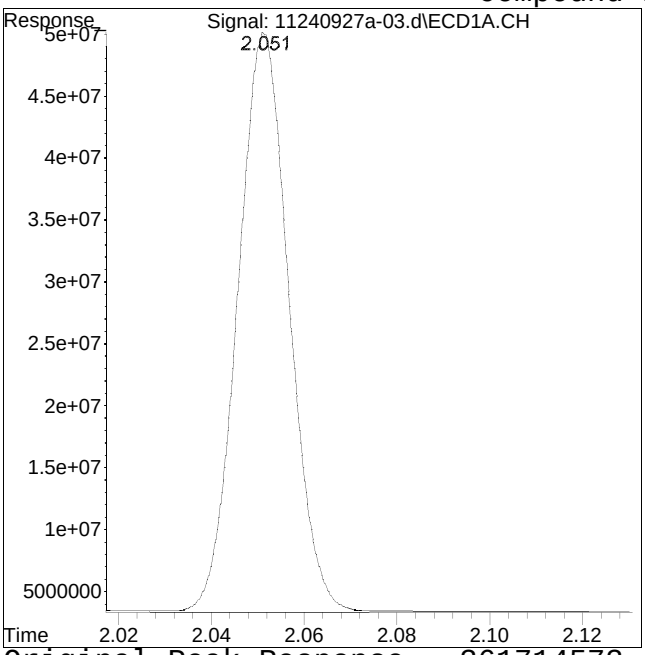


Original Peak Response = 951673343 Manual Peak Response = 946194247 M4
M4 = Poor automated baseline construction.

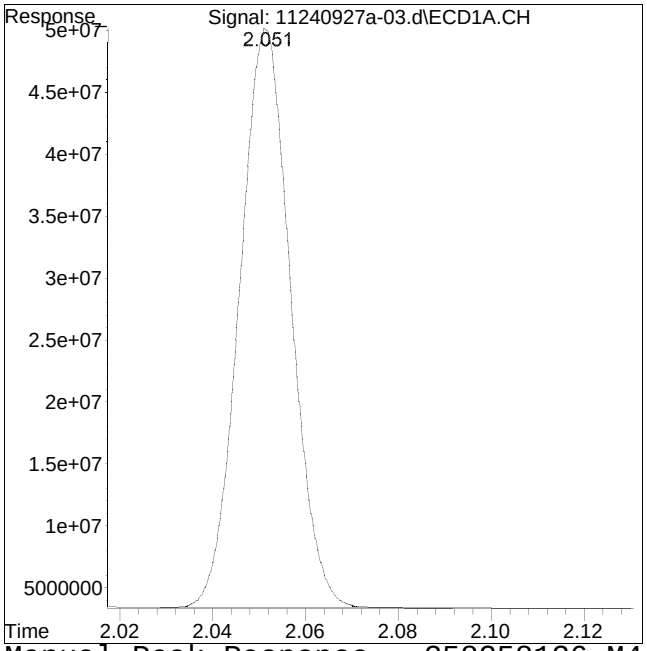
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-03.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:26 Instrument : Pest 11
Sample : wg1977176-1,42,,pest11675 Quant Date : 9/27/2024 10:09 am

Compound #6: beta-BHC



Original Peak Response = 361714573



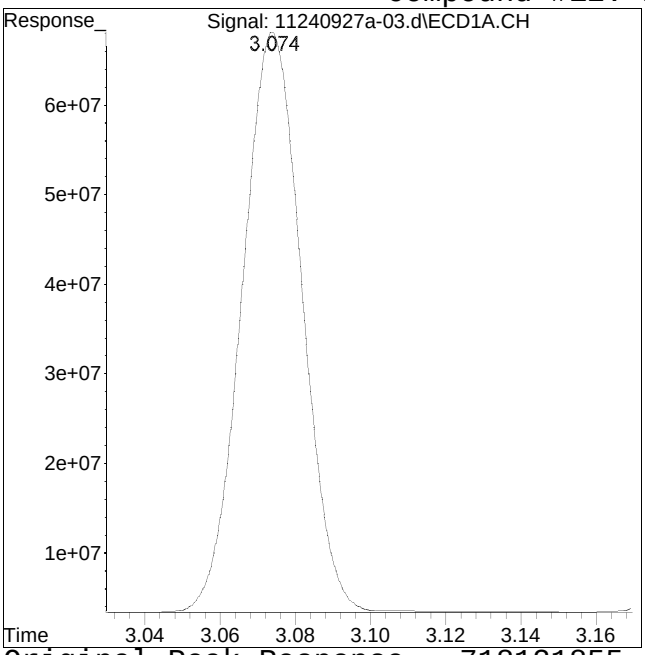
Manual Peak Response = 358358136 M4

M4 = Poor automated baseline construction.

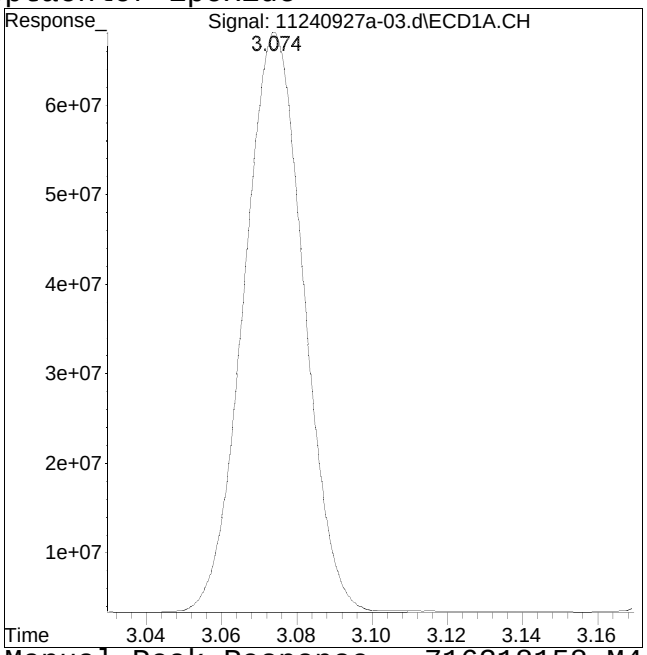
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-03.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:26 Instrument : Pest 11
Sample : wg1977176-1,42,,pest11675 Quant Date : 9/27/2024 10:09 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 718121855



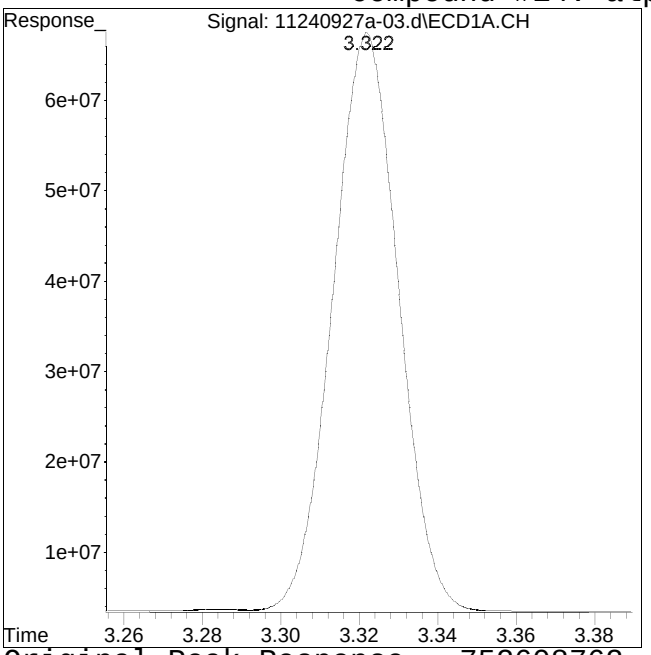
Manual Peak Response = 716318158 M4

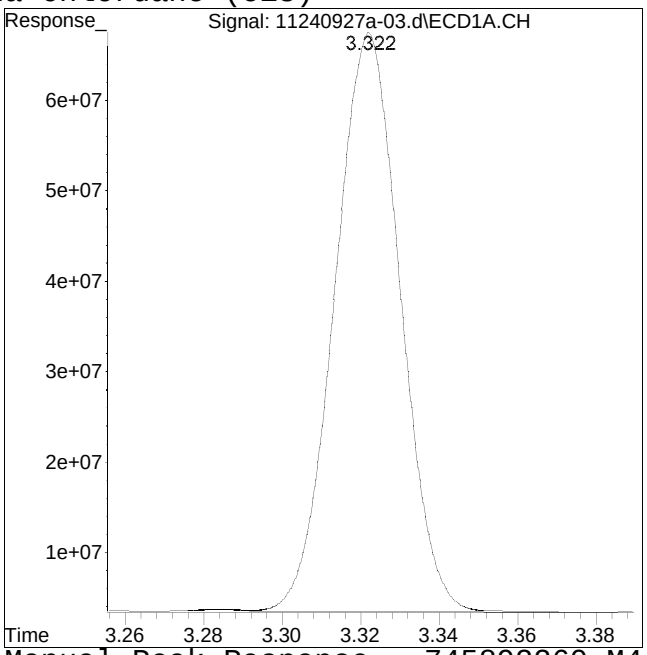
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-03.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:26 Instrument : Pest 11
Sample : wg1977176-1,42,,pest11675 Quant Date : 9/27/2024 10:09 am

Compound #14: alpha-Chlordane (cis)



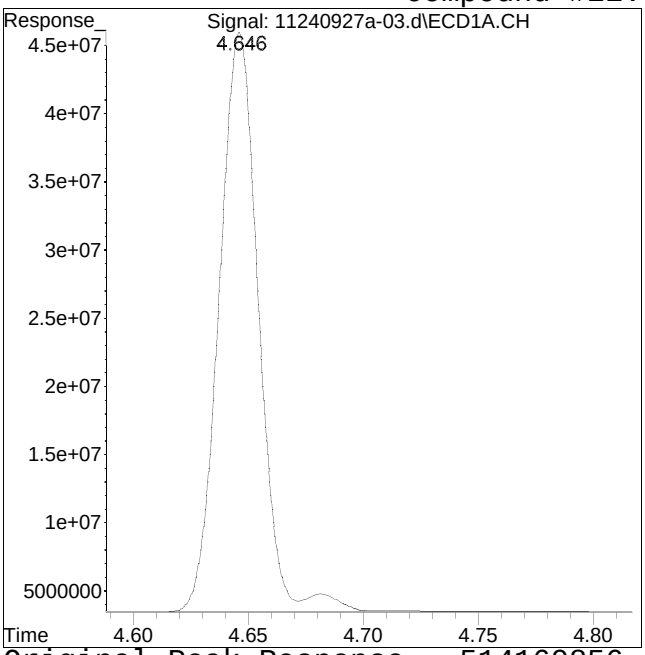


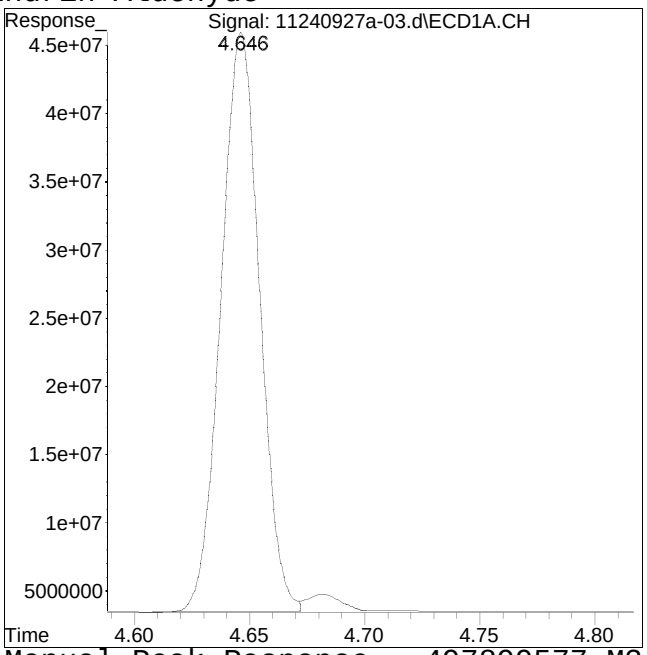
Original Peak Response = 752608762 Manual Peak Response = 745892260 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-03.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:26 Instrument : Pest 11
Sample : wg1977176-1,42,,pest11675 Quant Date : 9/27/2024 10:09 am

Compound #22: Endrin Aldehyde



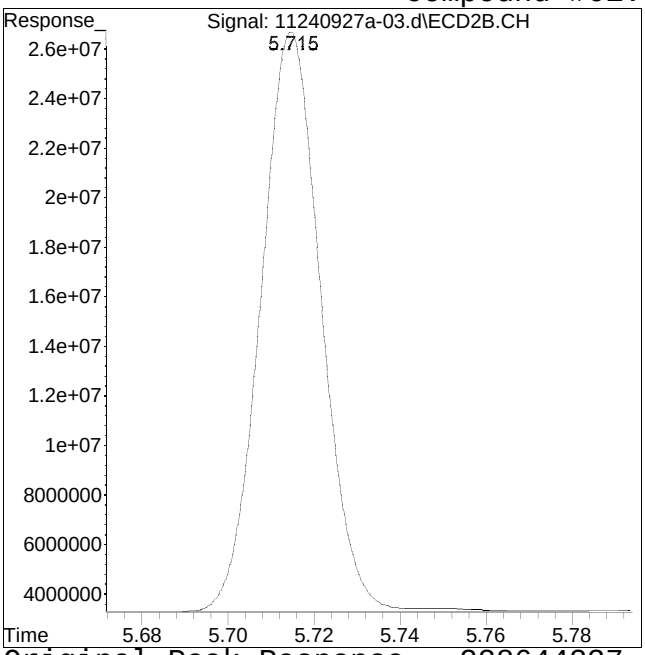


Original Peak Response = 514160856 Manual Peak Response = 497899577 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

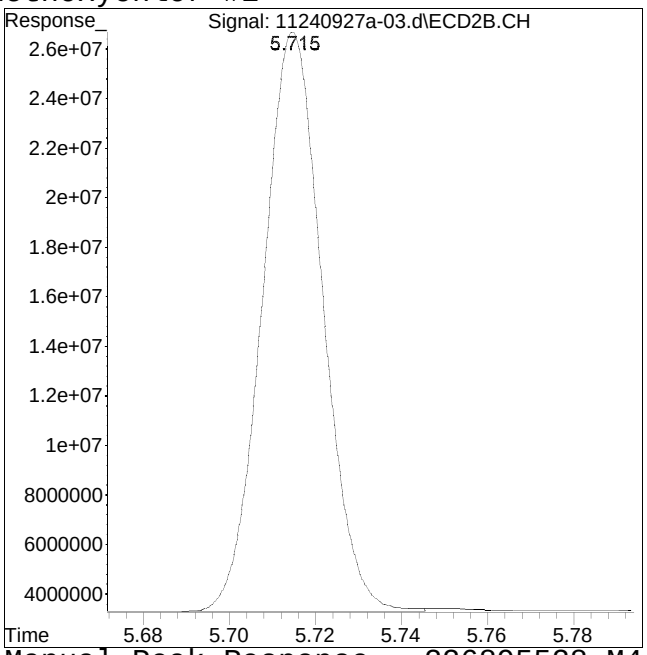
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-03.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:26 Instrument : Pest 11
Sample : wg1977176-1,42,,pest11675 Quant Date : 9/27/2024 10:09 am

Compound #61: Methoxychlor #2



Original Peak Response = 228644237



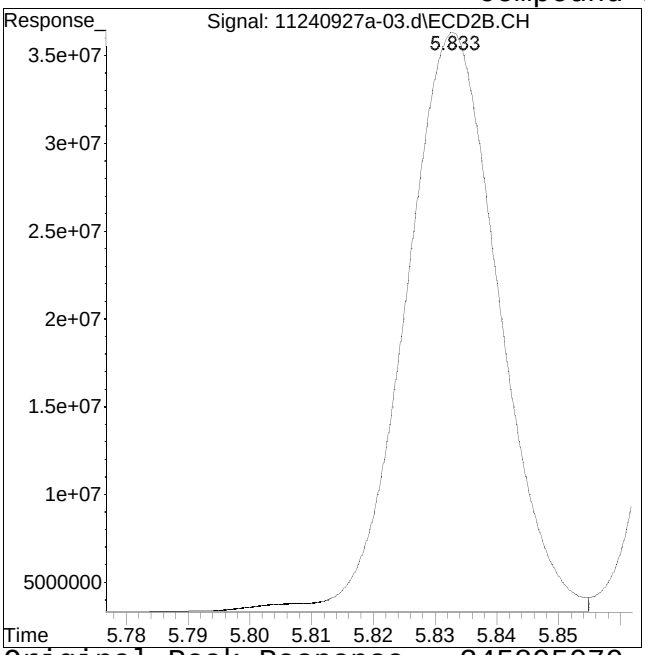
Manual Peak Response = 226895528 M4

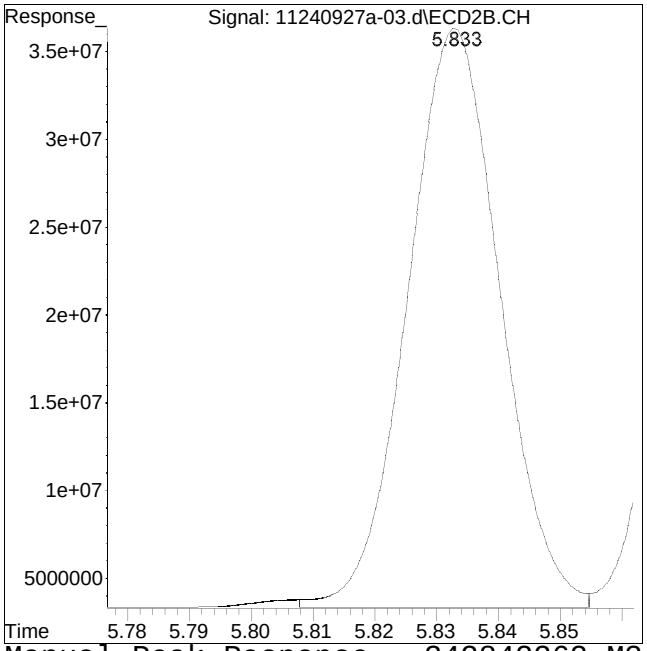
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-03.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:26 Instrument : Pest 11
Sample : wg1977176-1,42,,pest11675 Quant Date : 9/27/2024 10:09 am

Compound #62: Mirex #2



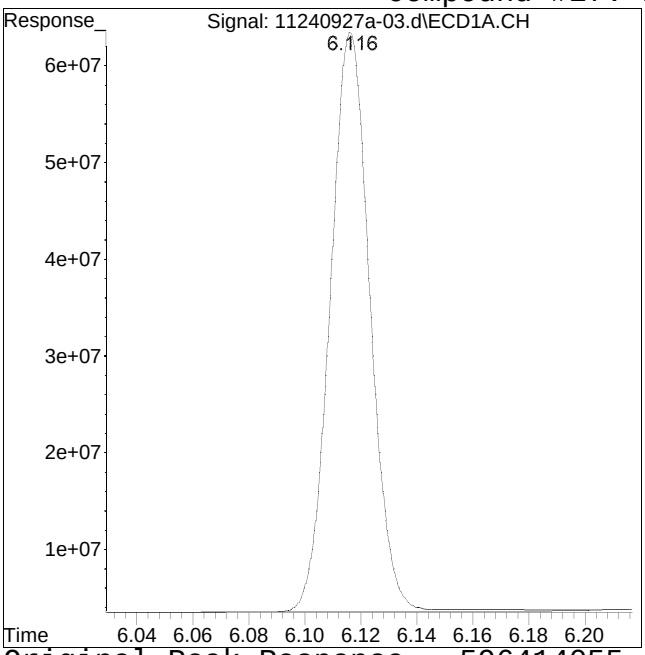


Original Peak Response = 345895070 Manual Peak Response = 342842262 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

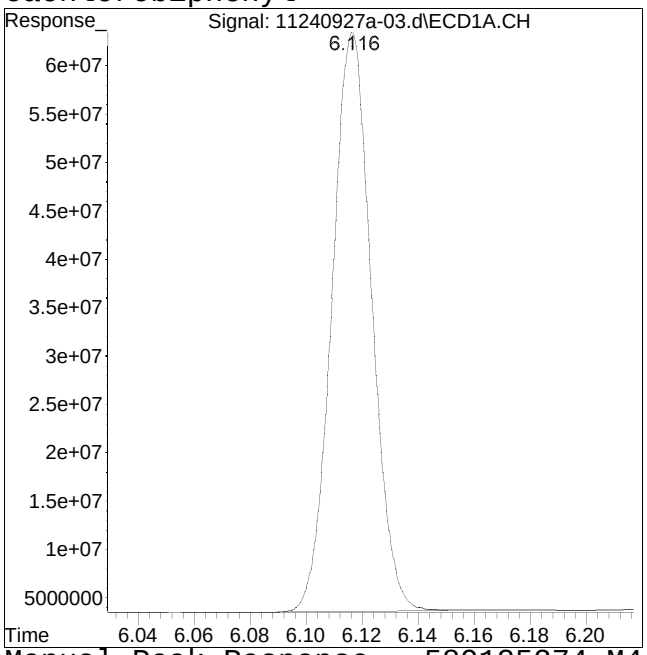
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-03.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:26 Instrument : Pest 11
Sample : wg1977176-1,42,,pest11675 Quant Date : 9/27/2024 10:09 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 596414055



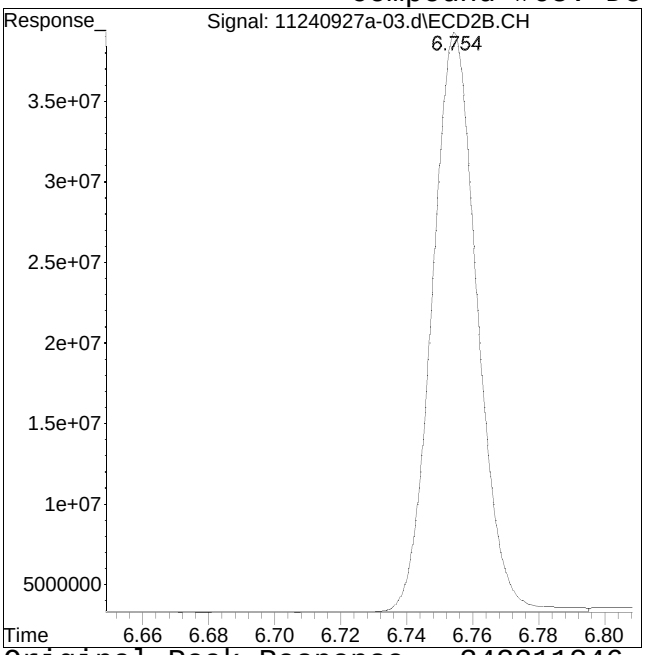
Manual Peak Response = 589125274 M4

M4 = Poor automated baseline construction.

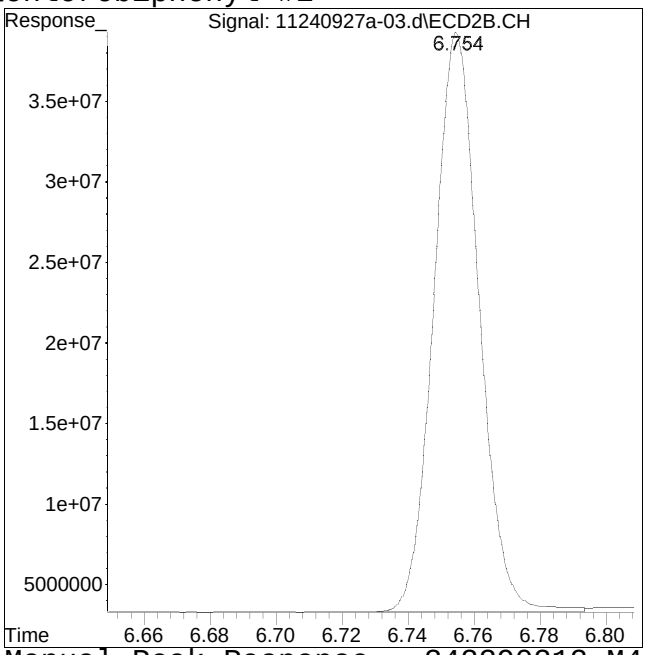
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-03.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:26 Instrument : Pest 11
Sample : wg1977176-1,42,,pest11675 Quant Date : 9/27/2024 10:09 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 342211246



Manual Peak Response = 342390212 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2024   9:38
Operator : PEST11:akm
Sample   : wg1977176-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc   : wg1977176,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:11:26 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:11:20 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	139	0.00
29	l1	chlordane-1		*1000.000	986.542	1.3	133	0.00
30	l1	chlordane-3		*1000.000	997.501	0.2	130	0.00
31	l1	chlordane-4		*1000.000	1009.027	-0.9	133	0.00
32	l1	chlordane-5		*1000.000	1132.585	-13.3	149	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	116	0.00
29	l1	chlordane-1		*1000.000	849.499	15.1	93	0.00
30	l1	chlordane-3		*1000.000	876.190	12.4	91	0.00
31	l1	chlordane-4		*1000.000	792.104	20.8#	86	0.00
32	l1	chlordane-5		*1000.000	783.264	21.7#	85	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.19#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.51#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.71#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.81#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.00#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.05#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.17#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.33#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.56#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.67#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.76#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.07#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.19#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2024   9:38
Operator : PEST11:akm
Sample   : wg1977176-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc   : wg1977176,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:11:26 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:11:20 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.32#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.42#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.45#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.70#
18	t	Endrin		1.153	0.000	100.0#	0#	-3.95#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.07#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.20#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.39#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.65#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-4.91#
24	t	Mirex		0.938	0.000	100.0#	0#	-4.95#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.05#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.29#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.12#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.19#
34	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.19#
35	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-4.33#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-4.57#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-4.96#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.26#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.71#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.01#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.09#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.36#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.43#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.68#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2024   9:38
Operator : PEST11:akm
Sample   : wg1977176-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc   : wg1977176,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:11:26 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:11:20 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.74#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.04#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-2.93#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.27#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.63#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-3.84#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.01#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.23#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.07#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.39#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.70#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-4.84#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-4.91#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.13#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.22#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.71#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.83#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.46#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-5.87#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.75#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.26#
34	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-4.87#
35	l2	toxaphene-3	*	2000.000	0.000	100.0#	0	-4.90#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-5.23#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-5.65#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 9:38
Operator : PEST11:akm
Sample : wg1977176-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc : wg1977176,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:11:26 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:11:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.187	1.260	307.9E6	214.6E6	25.000M4	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 9:38
Operator : PEST11:akm
Sample : wg1977176-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc : wg1977176,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:11:26 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:11:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d	
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29) l1	chlordane-1	2.265	2.609	442.2E6	271.4E6	986.542	849.499	
30) l1	chlordane-3	2.662	3.186	519.7E6	307.9E6	997.501	876.190	
31) l1	chlordane-4	3.193	3.840	1933.7E6	1062.2E6	1009.027	792.104	
32) l1	chlordane-5	3.314	4.008	3331.3E6	807.0E6	1132.585	783.264	
Sum	chlordane-1			6226.9E6	2448.6E6	N.D.	N.D.	D
Average	chlordane-1					1031.414	825.264	
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d	
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	toxaphene-2			0	0	N.D.	N.D.	
Average	toxaphene-2					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.	
Average	toxaphene-2					0.000	0.000	

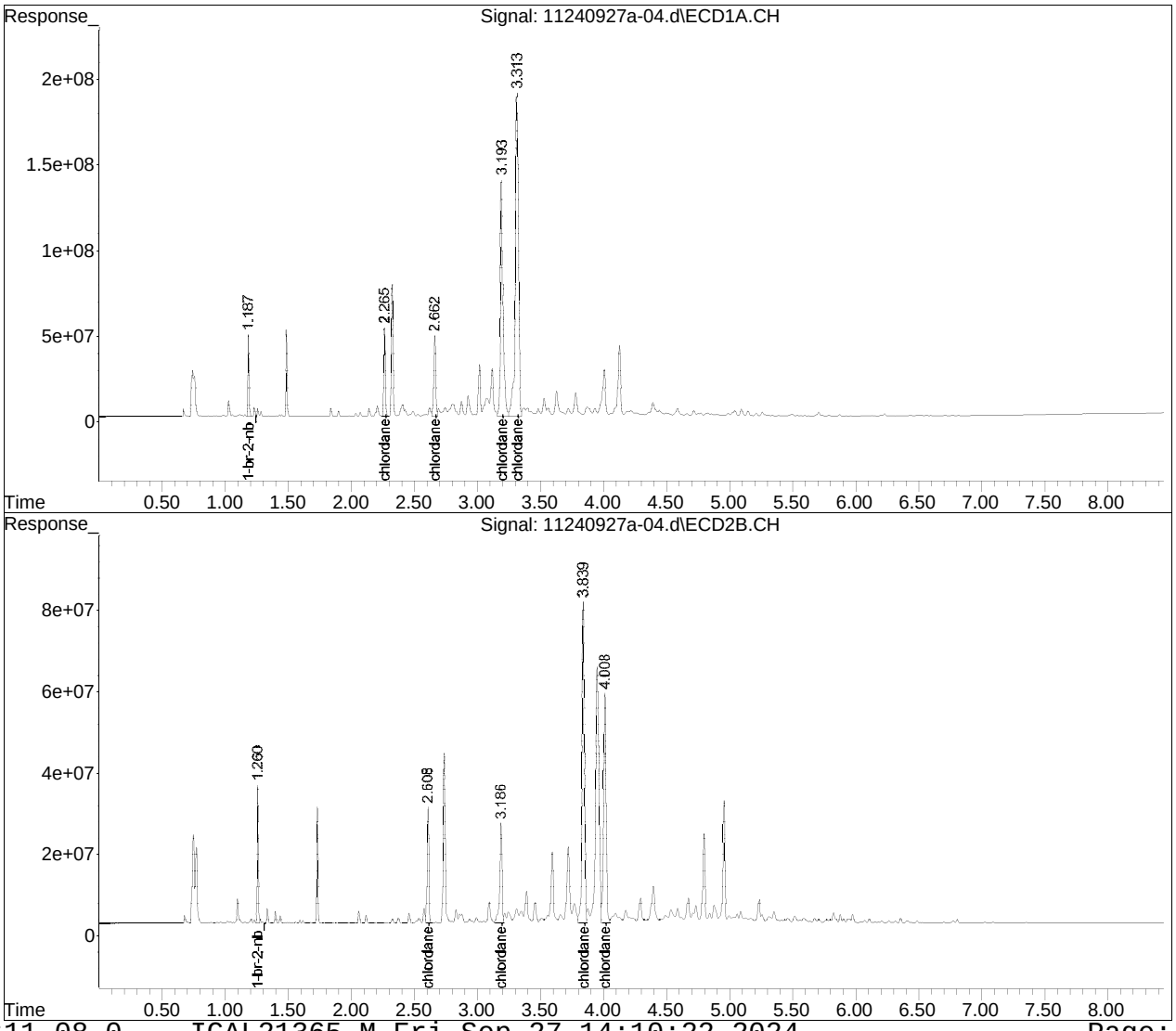
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 9:38
Operator : PEST11:akm
Sample : wg1977176-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc : wg1977176,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:11:26 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:11:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

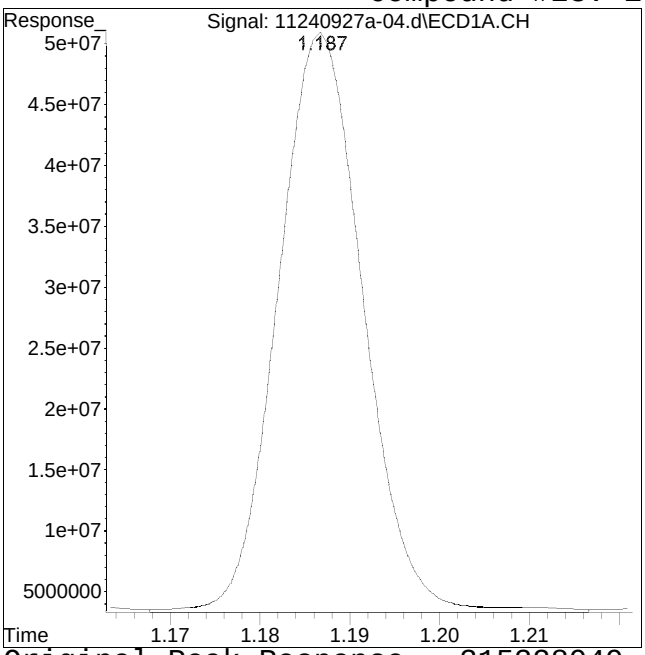
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

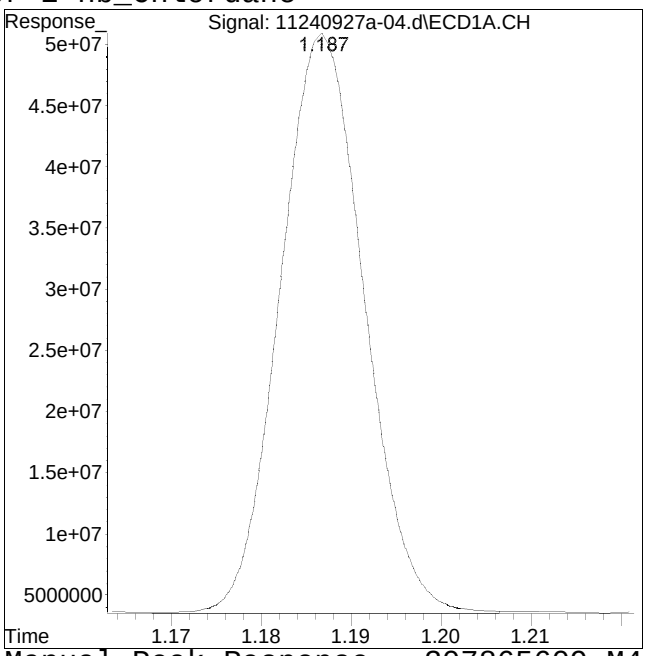


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-04.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:38 Instrument : Pest 11
Sample : wg1977176-2,42,,chlor11816Quant Date : 9/27/2024 10:11 am

Compound #28: 1-br-2-nb_Chlordane



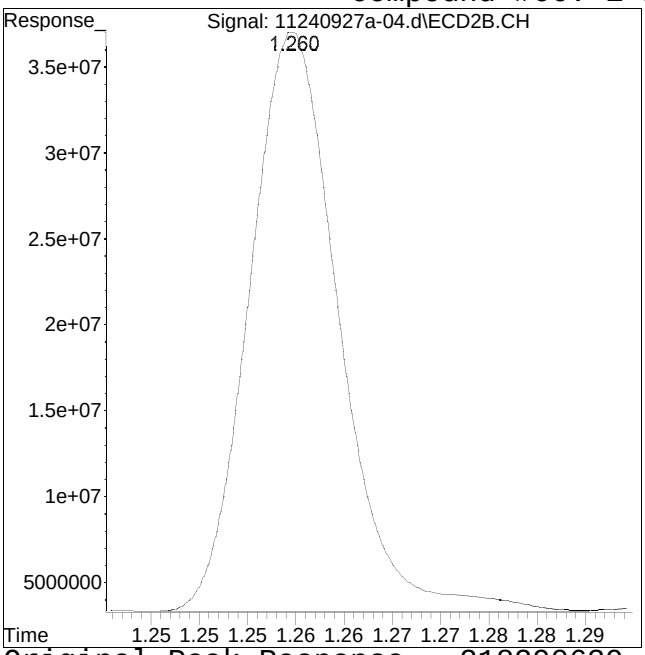


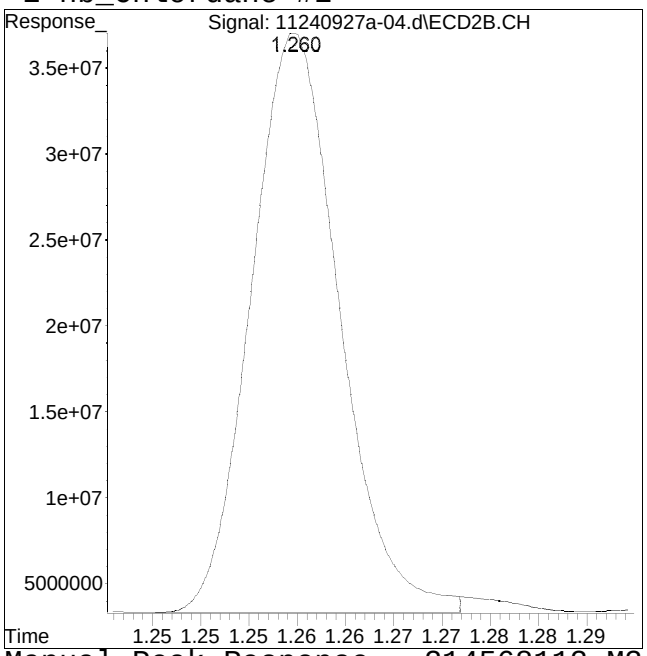
Original Peak Response = 315328949 Manual Peak Response = 307865609 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-04.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:38 Instrument : Pest 11
Sample : wg1977176-2,42,,chlor11816Quant Date : 9/27/2024 10:11 am

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 218290639 Manual Peak Response = 214568112 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2024   9:50
Operator : PEST11:akm
Sample   : wg1977176-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1977176,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:12:53 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:47 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	148	0.00
34	l2	toxaphene-2		*2000.000	2495.744	-24.8#	179	0.00
35	l2	toxaphene-3		*2000.000	1978.955	1.1	142	0.00
36	l2	toxaphene-4		*2000.000	1838.006	8.1	135	0.00
37	l2	toxaphene-5		*2000.000	2281.858	-14.1	165	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	123	0.00
34	l2	toxaphene-2		*2000.000	1840.020	8.0	113	0.00
35	l2	toxaphene-3		*2000.000	1917.769	4.1	117	0.00
36	l2	toxaphene-4		*2000.000	1779.027	11.0	109	0.00
37	l2	toxaphene-5		*2000.000	1894.064	5.3	116	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.19#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.51#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.71#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.81#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.00#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.05#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.17#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.33#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.56#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.67#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.76#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.07#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.19#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2024   9:50
Operator : PEST11:akm
Sample   : wg1977176-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1977176,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:12:53 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:47 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.32#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.42#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.45#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.70#
18	t	Endrin		1.153	0.000	100.0#	0#	-3.95#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.07#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.20#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.39#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.65#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-4.91#
24	t	Mirex		0.938	0.000	100.0#	0#	-4.95#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.05#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.29#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.12#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.19#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.27#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.66#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.19#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.31#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.26#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.71#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.01#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.09#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.36#
6	t	beta-BHC		* 50.000	0.000	100.0#	0	-2.43#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.68#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Sep 2024   9:50
Operator : PEST11:akm
Sample   : wg1977176-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1977176,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:12:53 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:47 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.74#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.04#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-2.93#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.27#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.63#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-3.84#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.01#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.23#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.07#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.39#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.70#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-4.84#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-4.91#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.13#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.22#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.71#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.83#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.46#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-5.87#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.75#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.26#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.61#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.19#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.84#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.01#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 9:50
Operator : PEST11:akm
Sample : wg1977176-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1977176,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:12:53 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.187	1.260	323.9E6	214.7E6	25.000M3	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 9:50
Operator : PEST11:akm
Sample : wg1977176-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1977176,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:12:53 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.192	4.872	1799.8E6	372.3E6	2495.744	1840.020
35) l2	toxaphene-3	4.326	4.900	1114.2E6	574.0E6	1978.955	1917.769
36) l2	toxaphene-4	4.571	5.232	1042.3E6	639.2E6	1838.006	1779.027
37) l2	toxaphene-5	4.958	5.648	1173.8E6	626.9E6	2281.858	1894.064
Sum	toxaphene-2			5130.1E6	2212.4E6	8594.564	7430.880
Average	toxaphene-2					2148.641	1857.720

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			5130.1E6	2212.4E6	8594.564	7430.880
Average	toxaphene-2					2148.641	1857.720

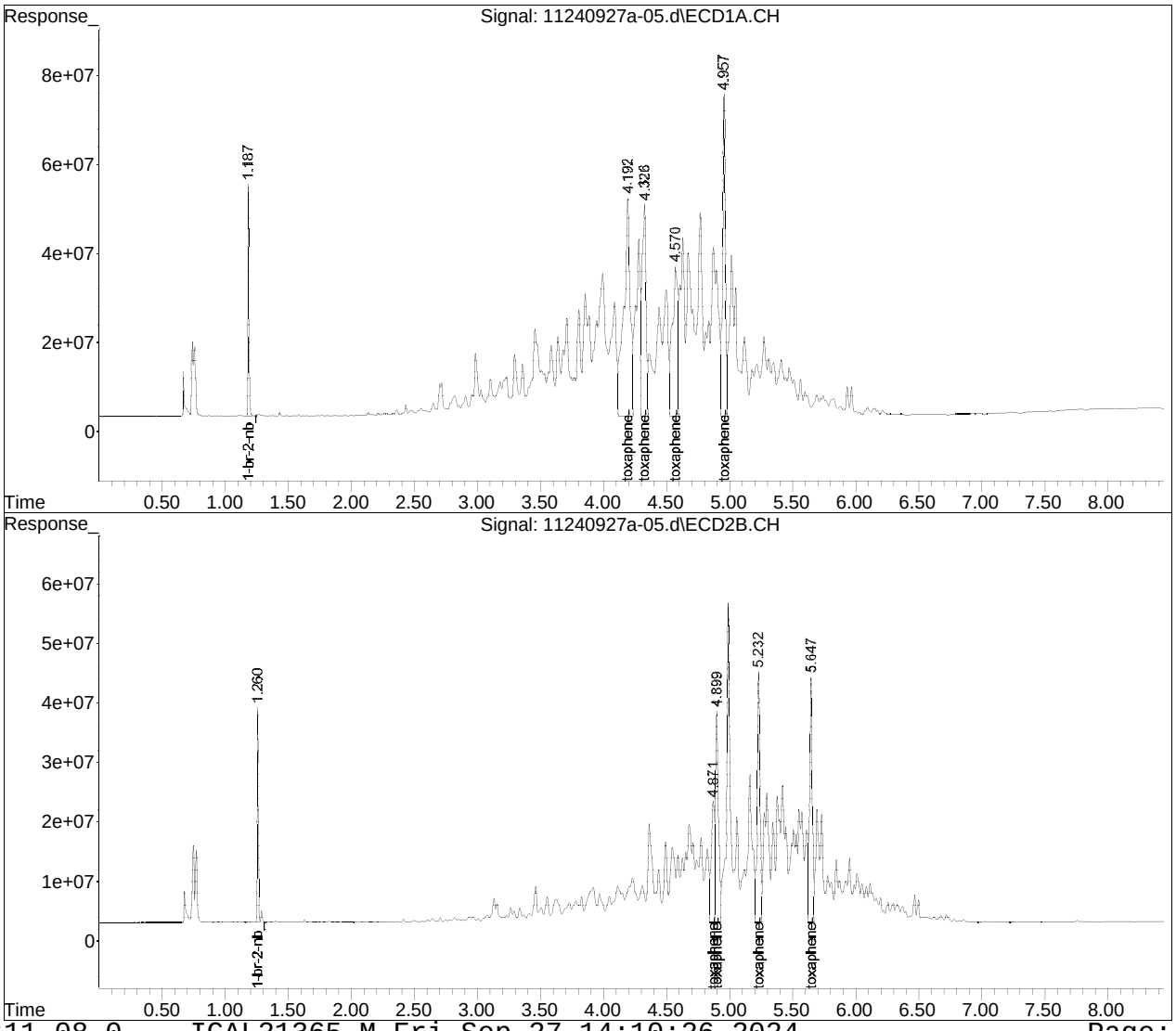
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 9:50
Operator : PEST11:akm
Sample : wg1977176-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1977176,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:12:53 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

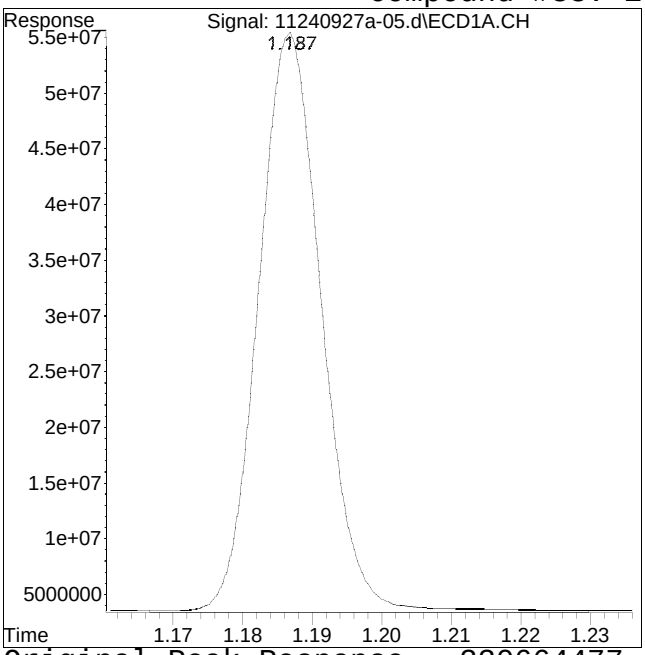
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

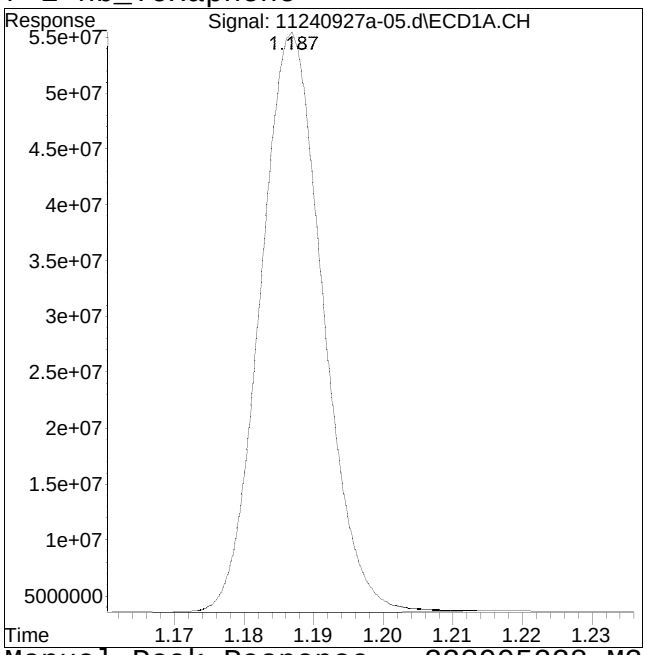


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-05.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:50 Instrument : Pest 11
Sample : wg1977176-3,42,,tox11668 Quant Date : 9/27/2024 10:12 am

Compound #33: 1-br-2-nb_Toxaphene





Original Peak Response = 330664477 Manual Peak Response = 323905238 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Sep 2024 10:31
Operator : PEST11:jag
Sample   : wg1977568-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1977568,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:20:46 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:20:40 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	119	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	1.109	-6.7	124	0.00
3	t	Hexachlorobenzene		1.406	1.221	13.2	105	0.00
4	t	alpha-BHC		1.461	1.725	-18.1	127	0.00
5	t	gamma-BHC (lindane)		1.395	1.540	-10.4	123	0.00
6	t	beta-BHC		0.628	0.654	-4.1	125	0.00
7	t	delta-BHC		1.374	1.504	-9.5	119	0.00
8	t	Heptachlor		1.321	1.491	-12.9	127	0.00
9	t	Aldrin		1.233	1.391	-12.8	126	0.00
10	t	Alachlor		0.230	0.209	9.1	108	0.00
11	t	Chlorpyrifos		0.590	0.646	-9.5	139	0.00
12	t	Heptachlor Epoxide		1.185	1.254	-5.8	121	0.00
13	t	gamma-Chlordane (trans)		1.077	1.325	-23.0#	143	0.00
14	t	alpha-Chlordane (cis)		1.216	1.301	-7.0	123	0.00
15	t	4,4'-DDE		1.192	1.274	-6.9	121	0.00
16	t	Endosulfan I		1.116	1.188	-6.5	122	0.00
17	t	Dieldrin		1.135	1.351	-19.0	134	0.00
18	t	Endrin		1.153	1.273	-10.4	124	0.00
19	t	4,4'-DDD		0.927	1.067	-15.1	130	0.00
20	t	Endosulfan II		1.052	1.162	-10.5	126	0.00
21	t	4,4'-DDT		1.058	1.102	-4.2	118	0.00
22	t	Endrin Aldehyde		0.886	0.858	3.2	113	0.00
23	t	Methoxychlor		0.592	0.620	-4.7	127	0.00
24	t	Mirex		0.938	0.992	-5.8	131	0.00
25	t	Endosulfan Sulfate		1.010	1.121	-11.0	132	0.00
26	t	Endrin Ketone		1.183	1.292	-9.2	125	0.00
27	s	Decachlorobiphenyl		1.163	0.968	16.8	108	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Sep 2024 10:31
Operator : PEST11:jag
Sample   : wg1977568-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1977568,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:20:46 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:20:40 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	110	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	1.051	5.7	104	0.00
3	t	Hexachlorobenzene		1.239	1.115	10.0	104	0.00
4	t	alpha-BHC		1.620	1.563	3.5	99	0.00
5	t	gamma-BHC (lindane)		1.539	1.397	9.2	98	0.00
6	t	beta-BHC	*	50.000	47.215	5.6	99	0.00
7	t	delta-BHC		1.523	1.365	10.4	94	0.00
8	t	Heptachlor		1.598	1.334	16.5	92	0.00
9	t	Aldrin		1.435	1.253	12.7	94	0.00
10	t	Alachlor	*	50.000	52.988	-6.0	105	0.00
11	t	Chlorpyrifos	*	50.000	44.271	11.5	90	0.00
12	t	Heptachlor Epoxide		1.425	1.153	19.1	91	0.00
13	t	gamma-Chlordane (trans)		1.312	1.187	9.5	104	0.00
14	t	alpha-Chlordane (cis)		1.446	1.163	19.6	92	0.00
15	t	4,4'-DDE		1.343	1.136	15.4	90	0.00
16	t	Endosulfan I		1.332	1.084	18.6	92	0.00
17	t	Dieldrin		1.327	1.222	7.9	100	0.00
18	t	Endrin		1.347	1.140	15.4	92	0.00
19	t	4,4'-DDD		1.084	0.965	11.0	96	0.00
20	t	Endosulfan II		1.214	1.041	14.3	97	0.00
21	t	4,4'-DDT		1.250	1.028	17.8	90	0.00
22	t	Endrin Aldehyde	*	50.000	41.373	17.3	88	0.00
23	t	Methoxychlor		0.704	0.550	21.9#	93	0.00
24	t	Mirex	*	50.000	46.195	7.6	97	0.00
25	t	Endosulfan Sulfate		1.199	0.991	17.3	96	0.00
26	t	Endrin Ketone		1.261	1.155	8.4	103	0.00
27	s	Decachlorobiphenyl		1.060	0.822	22.5#	94	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Sep 2024 10:31
Operator : PEST11:jag
Sample   : wg1977568-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1977568,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:20:46 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:20:40 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.19#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.26#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.66#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.19#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.31#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.19#
34	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.19#
35	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-4.32#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-4.57#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-4.95#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.26#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.61#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.18#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.84#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.00#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.26#
34	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.87#
35	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-4.90#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.23#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.64#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2024 10:31
Operator : PEST11:jag
Sample : wg1977568-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1977568,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:20:46 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:20:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.187	1.259	274.1E6	200.9E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.513	1.704	607.7E6	422.1E6	53.347M4	47.170M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		106.69%	94.34%
27) s	Decachlorobi	6.114	6.749	530.4E6	330.1E6	41.602M4	38.757M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		83.20%	77.51%
	Target Compounds						
3) t	Hexachlorobe	1.713	2.003	669.1E6	447.8E6	43.410M4	44.981M4
4) t	alpha-BHC	1.805	2.092	945.8E6	627.9E6	59.065M4	48.250M4
5) t	gamma-BHC (l	1.996	2.360	844.1E6	561.3E6	55.175M4	45.388M4
6) t	beta-BHC	2.050	2.424	358.3E6	239.6E6	52.052M3	47.215M4
7) t	delta-BHC	2.170	2.676	824.6E6	548.5E6	54.738M4	44.835
8) t	Heptachlor	2.324	2.733	817.2E6	535.9E6	56.427M4	41.752M4
9) t	Aldrin	2.553	3.034	762.8E6	503.4E6	56.417M4	43.671M4
10) t	Alachlor	2.671	2.929	114.7E6	77854726	45.434M4	52.988M4
11) t	Chlorpyrifos	2.760	3.267	354.3E6	250.0E6	54.801M4	44.271M3

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2024 10:31
Operator : PEST11:jag
Sample : wg1977568-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1977568,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:20:46 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:20:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.072	3.622	687.2E6	463.3E6	52.877M4	40.458M3
13)	t	gamma-Chlord	3.191	3.836	726.1E6	476.9E6	61.494M4	45.259M3
14)	t	alpha-Chlord	3.320	4.003	712.9E6	467.1E6	53.467M4	40.209M4
15)	t	4,4'-DDE	3.418	4.222	698.4E6	456.2E6	53.461	42.287M4
16)	t	Endosulfan I	3.448	4.065	651.3E6	435.4E6	53.222M4	40.688
17)	t	Dieldrin	3.698	4.381	740.6E6	491.1E6	59.508M4	46.049M4
18)	t	Endrin	3.944	4.697	697.6E6	457.8E6	55.197M3	42.310
19)	t	4,4'-DDD	4.066	4.838	585.0E6	387.8E6	57.539	44.534M4
20)	t	Endosulfan I	4.198	4.909	637.1E6	418.2E6	55.242M4	42.892M4
21)	t	4,4'-DDT	4.383	5.126	604.3E6	413.1E6	52.074M4	41.130M4
22)	t	Endrin Aldeh	4.643	5.218	470.1E6	310.8E6	48.366M3	41.373M4
23)	t	Methoxychlor	4.905	5.712	340.1E6	221.1E6	52.412	39.059M4
24)	t	Mirex	4.945	5.830	543.7E6	336.7E6	52.887	46.195M3
25)	t	Endosulfan S	5.052	5.454	614.3E6	398.1E6	55.492M4	41.320M3
26)	t	Endrin Keton	5.284	5.872	708.4E6	463.8E6	54.609M3	45.791M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2024 10:31
Operator : PEST11:jag
Sample : wg1977568-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1977568,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:20:46 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:20:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

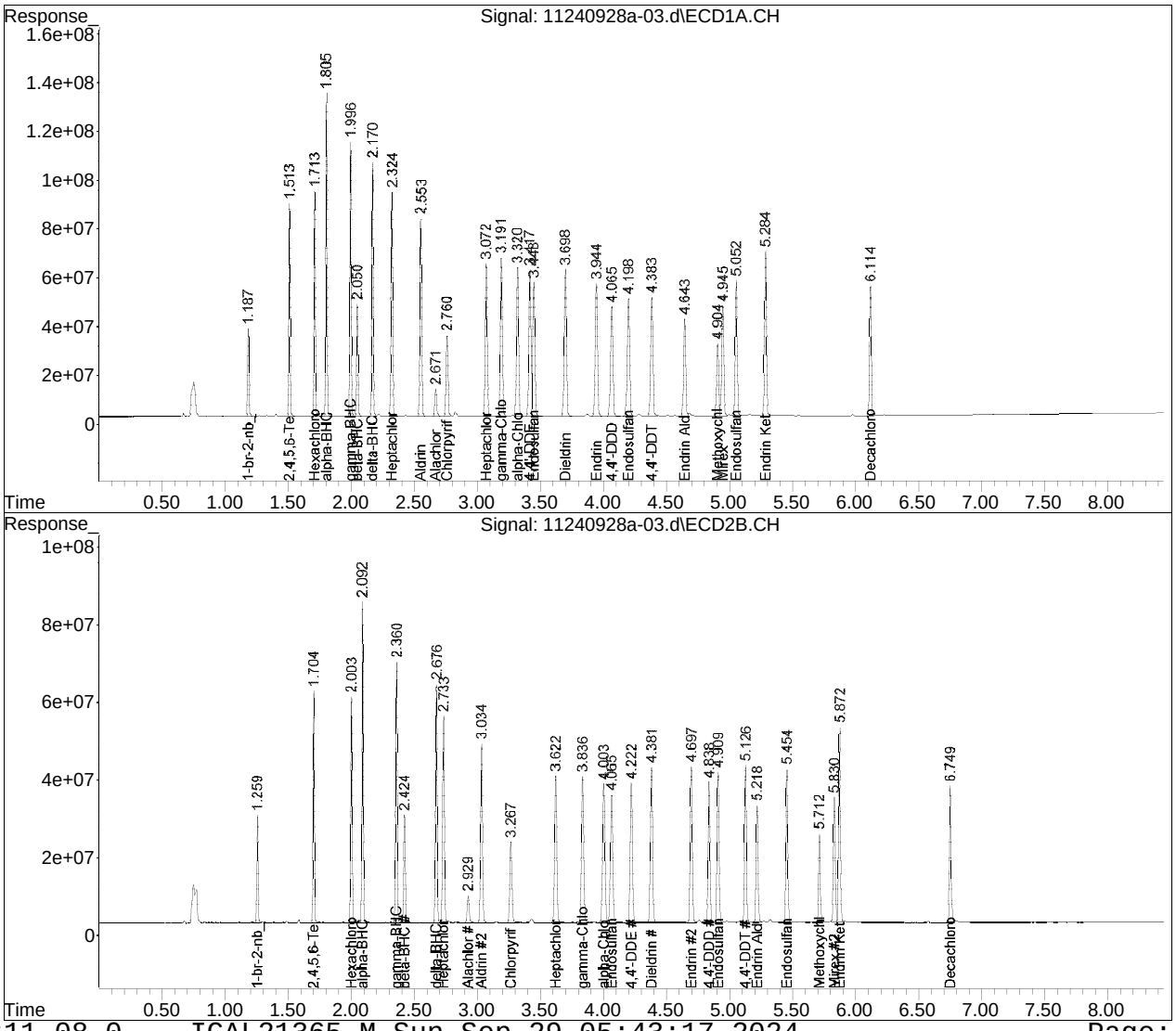
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2024 10:31
Operator : PEST11:jag
Sample : wg1977568-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1977568,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:20:46 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:20:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

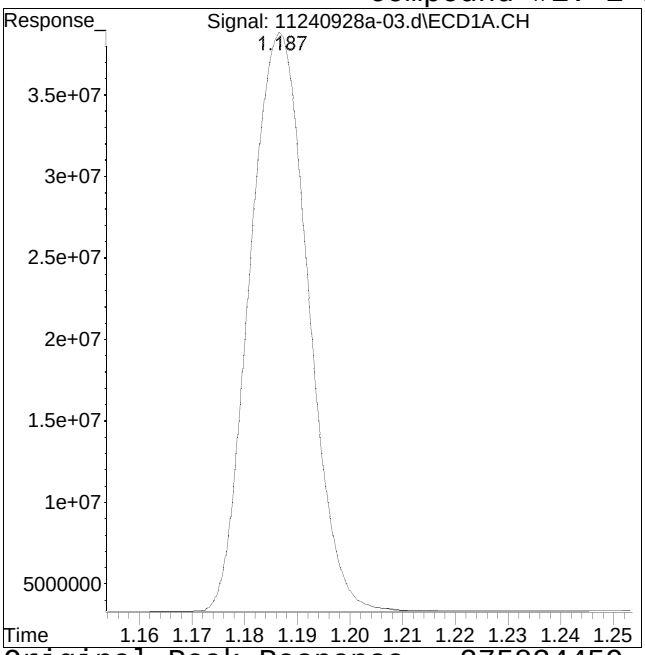
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

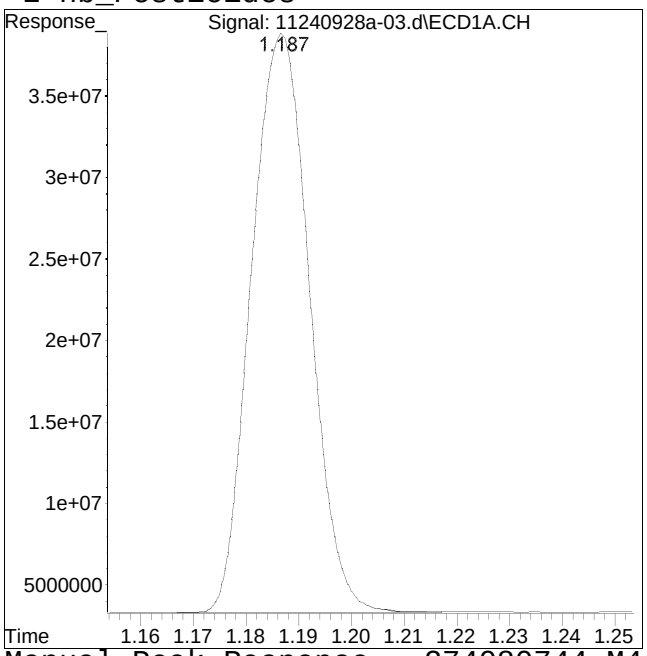


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #1: 1-br-2-nb_Pesticides



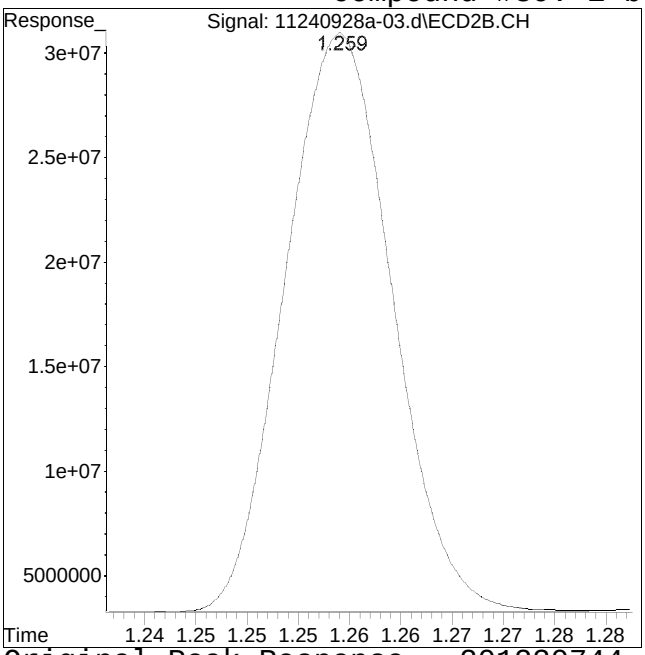


Original Peak Response = 275834459 Manual Peak Response = 274080744 M4
M4 = Poor automated baseline construction.

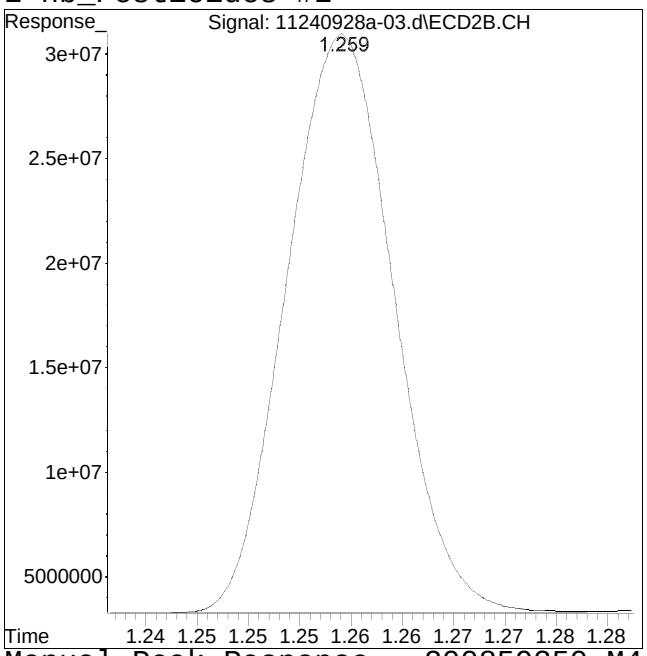
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 201230744



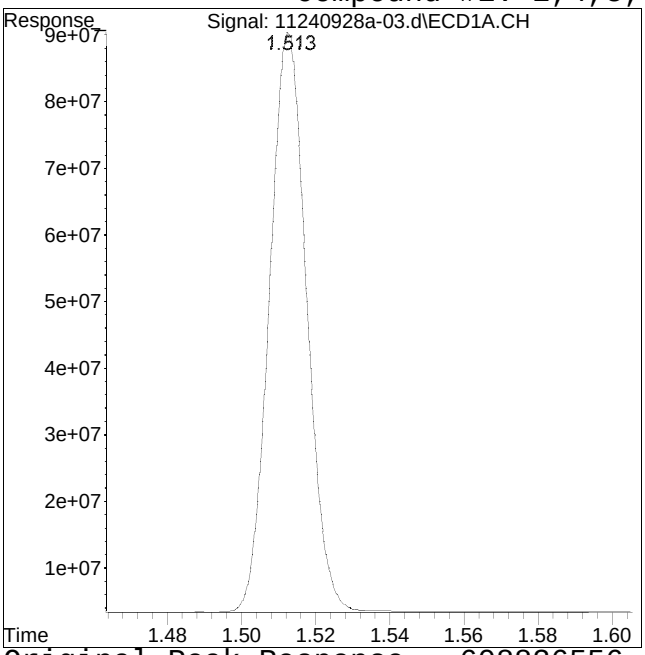
Manual Peak Response = 200859350 M4

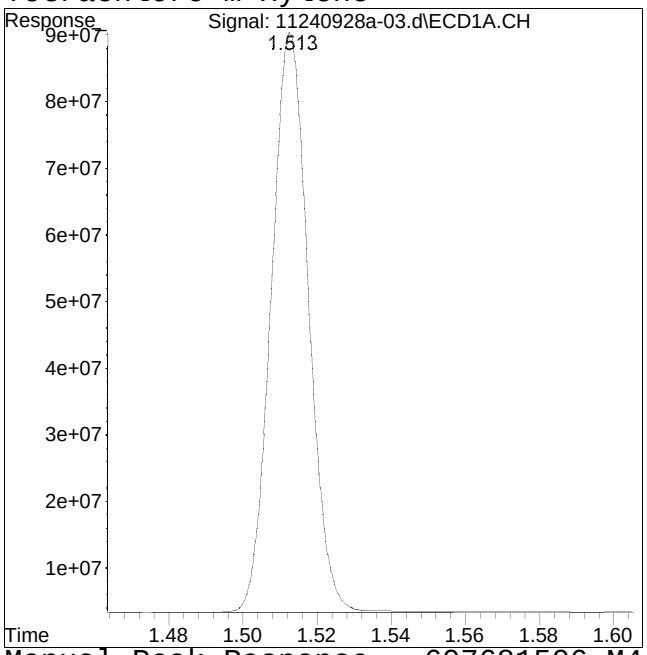
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



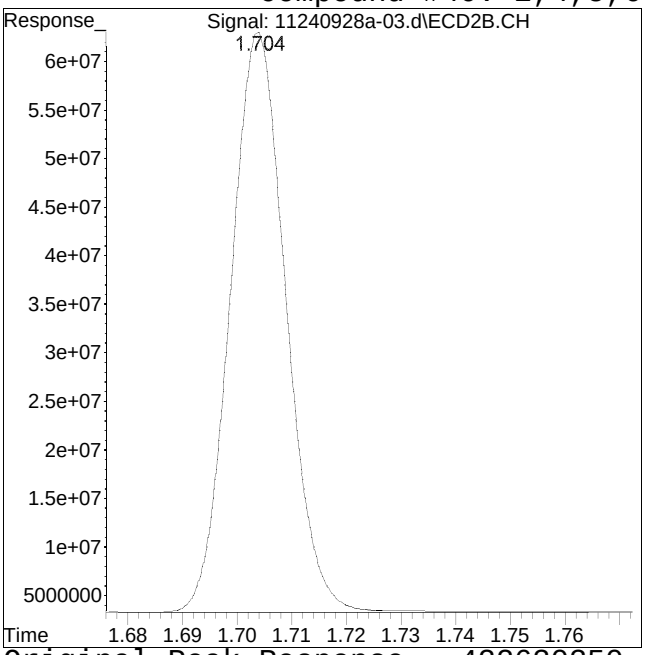


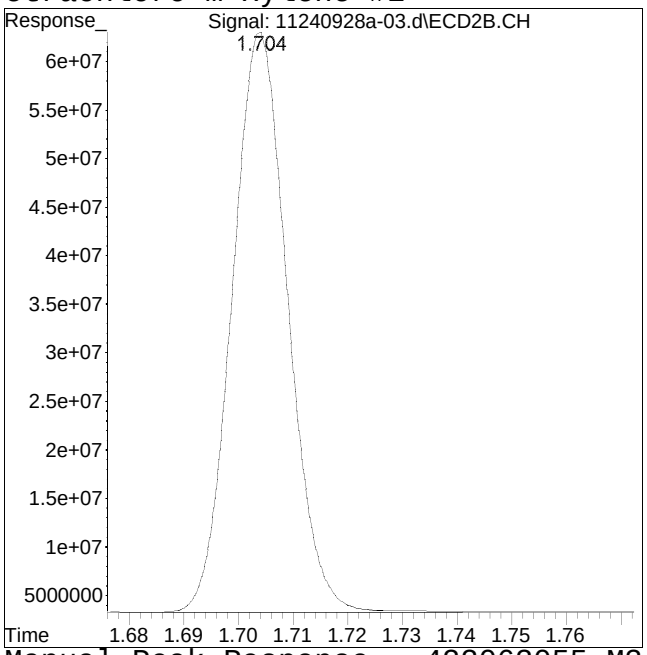
Original Peak Response = 608836556 Manual Peak Response = 607681506 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



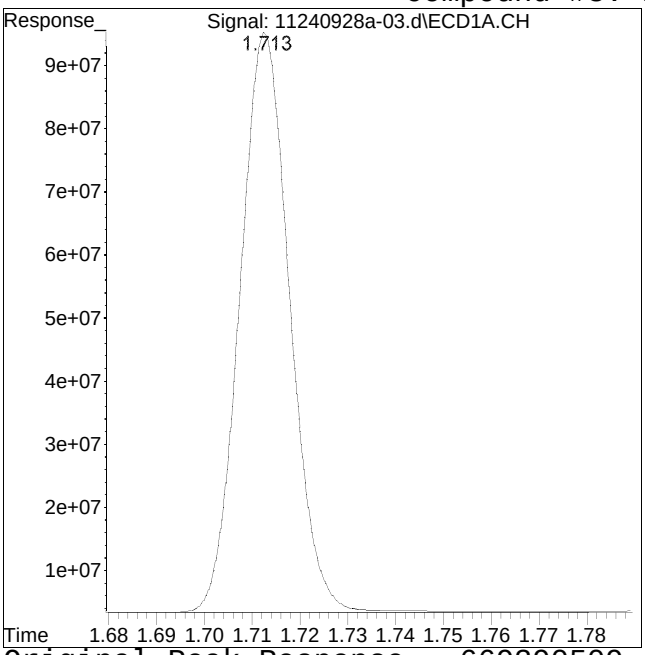


Original Peak Response = 422630350 Manual Peak Response = 422063055 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

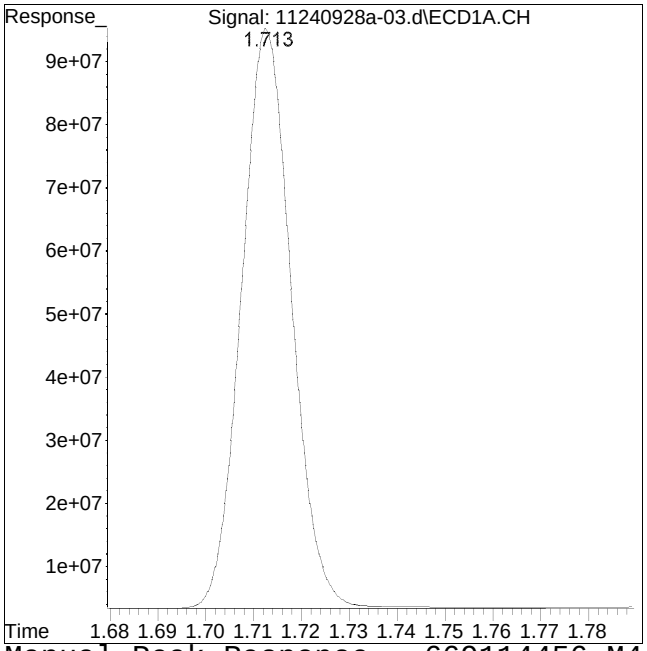
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #3: Hexachlorobenzene



Original Peak Response = 669390509



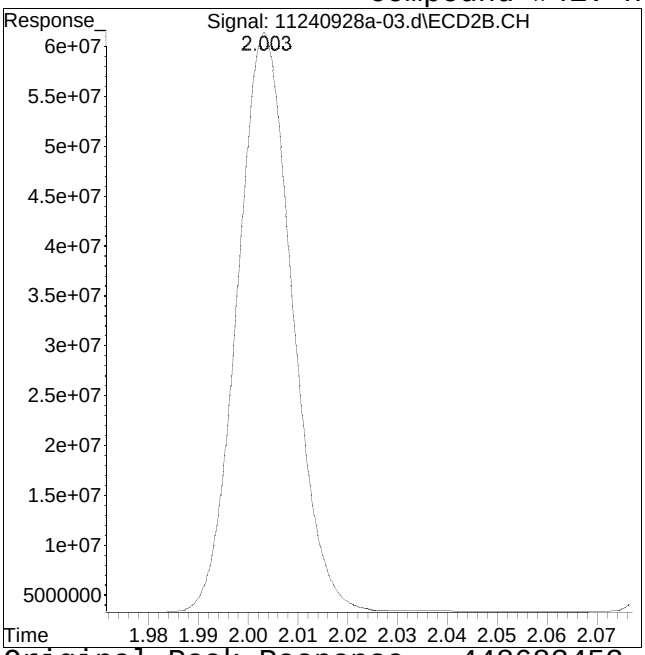
Manual Peak Response = 669114456 M4

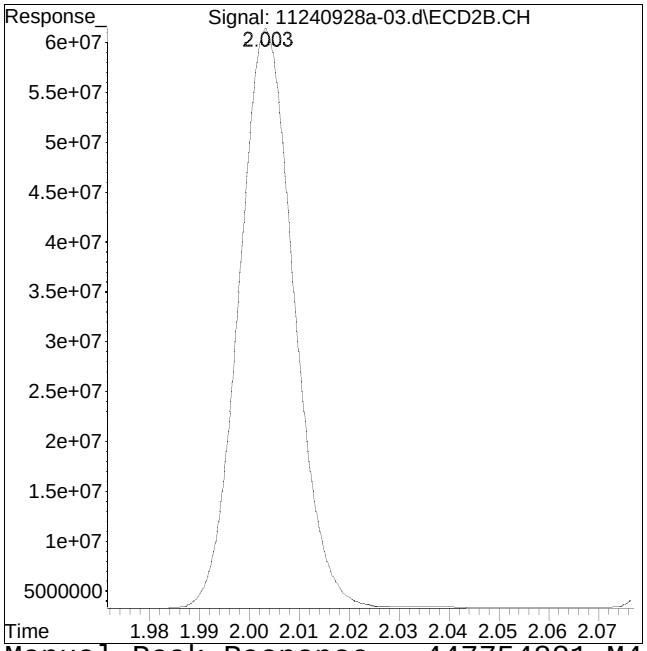
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #41: Hexachlorobenzene #2



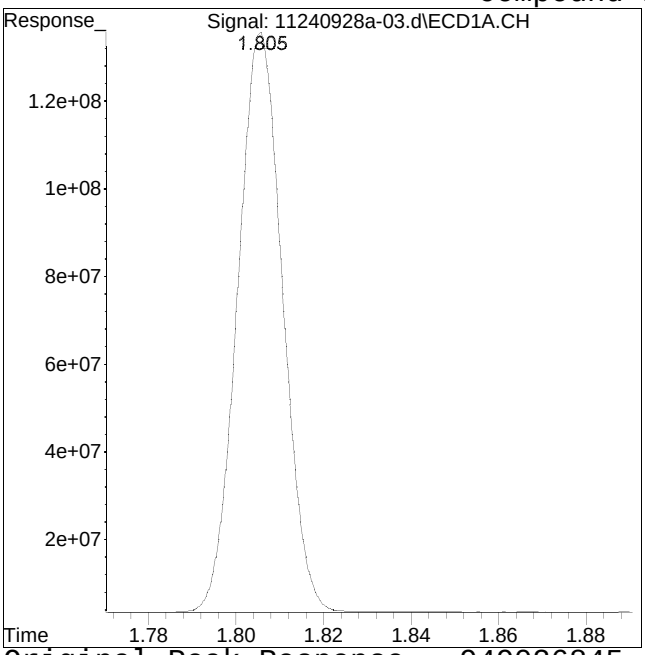


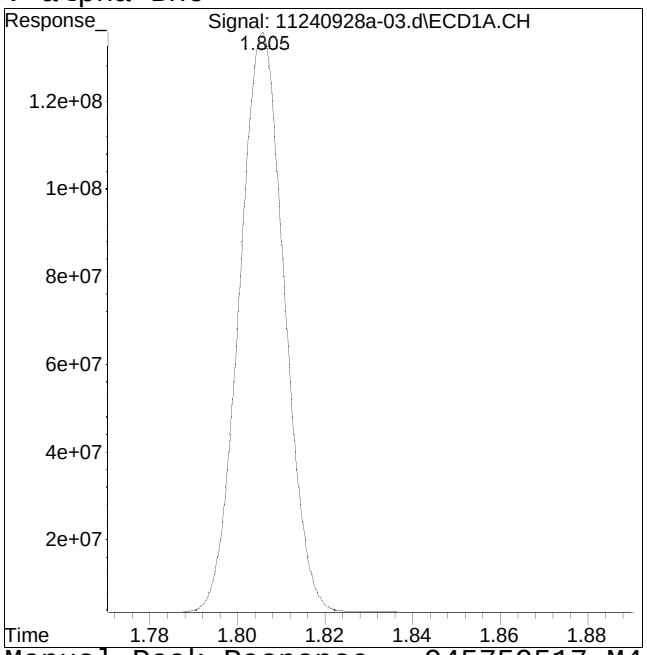
Original Peak Response = 448683453 Manual Peak Response = 447754881 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #4: alpha-BHC



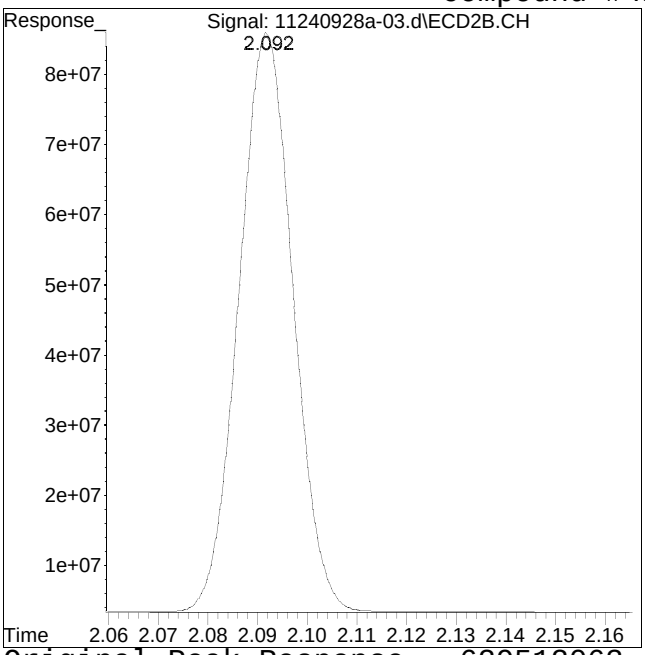


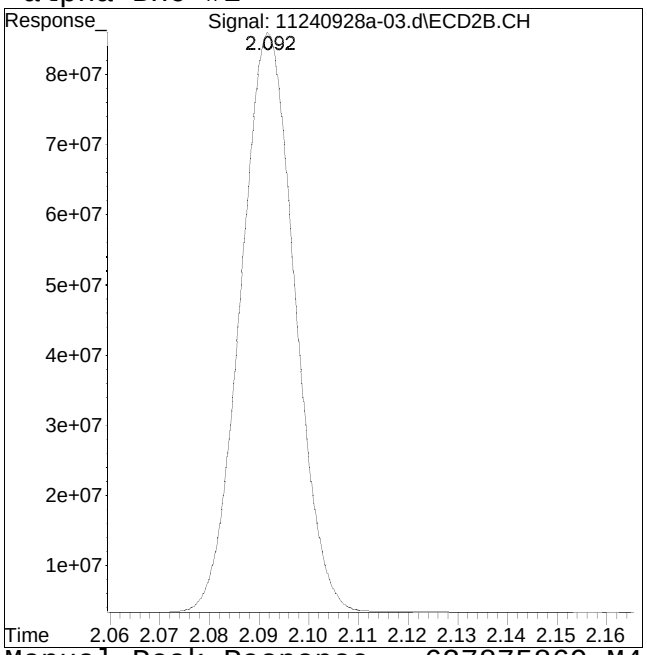
Original Peak Response = 949026845 Manual Peak Response = 945759517 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #42: alpha-BHC #2



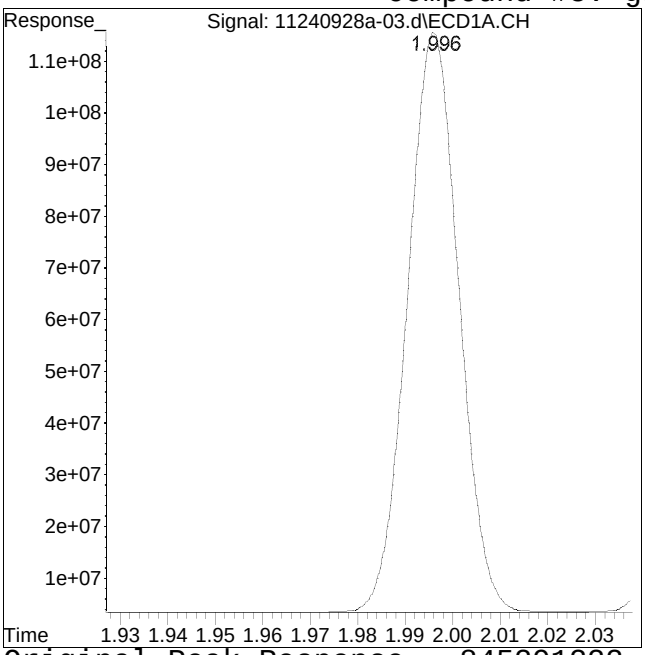


Original Peak Response = 629512063 Manual Peak Response = 627875869 M4
M4 = Poor automated baseline construction.

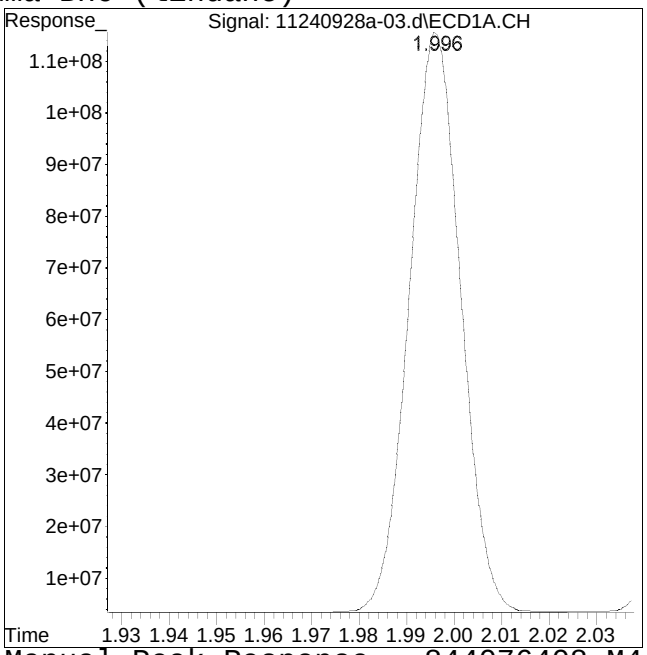
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #5: gamma-BHC (lindane)



Original Peak Response = 845291222



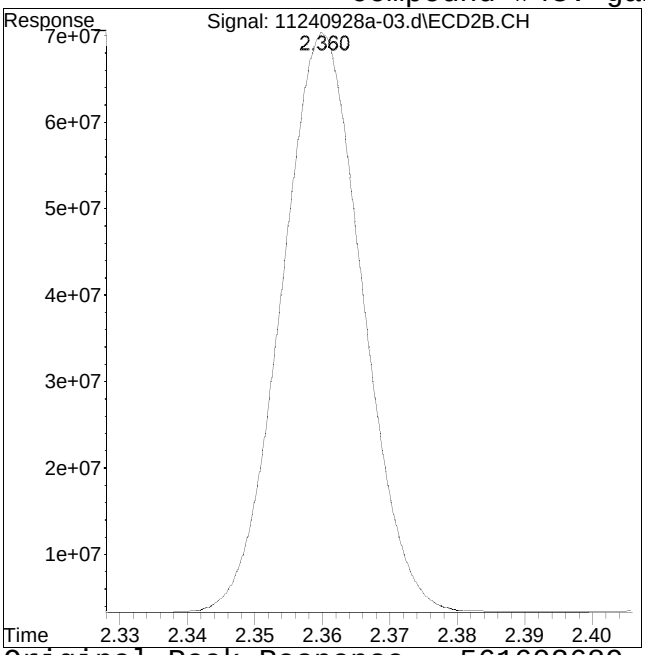
Manual Peak Response = 844076408 M4

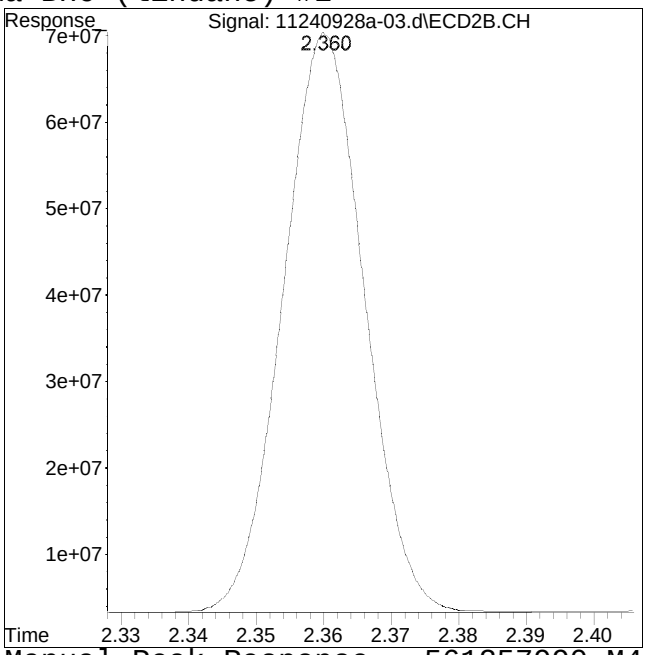
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #43: gamma-BHC (lindane) #2



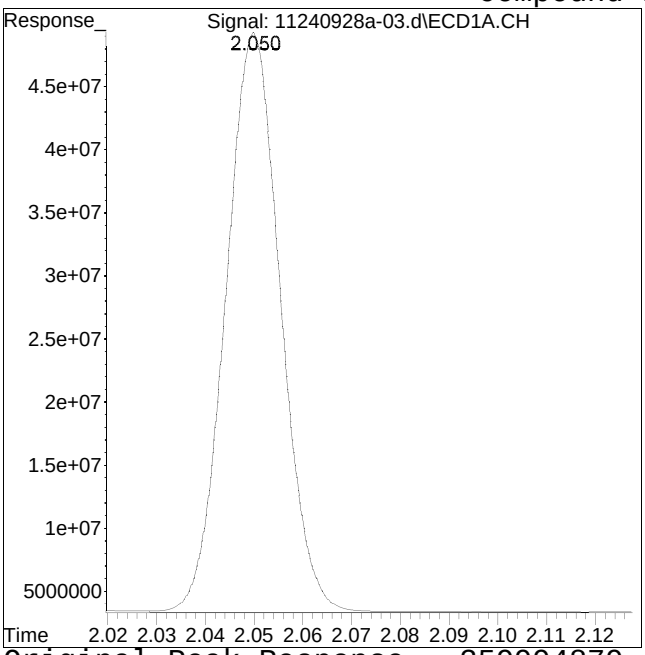


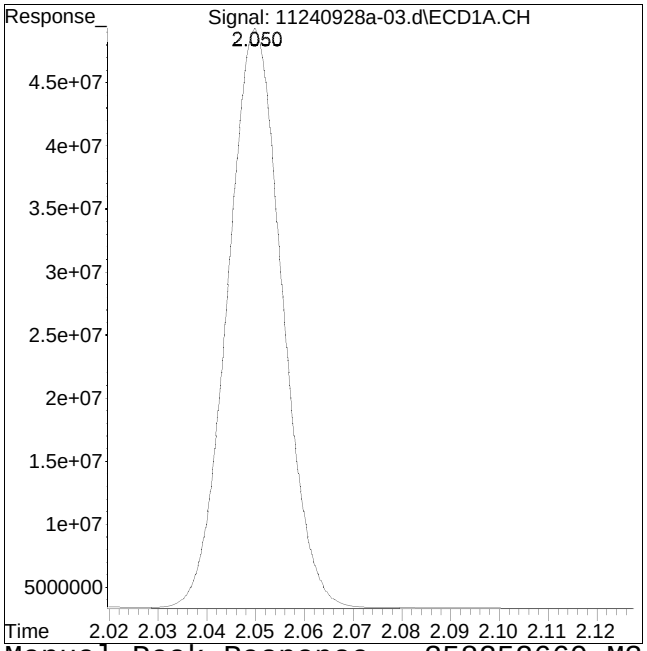
Original Peak Response = 561602689 Manual Peak Response = 561257990 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #6: beta-BHC



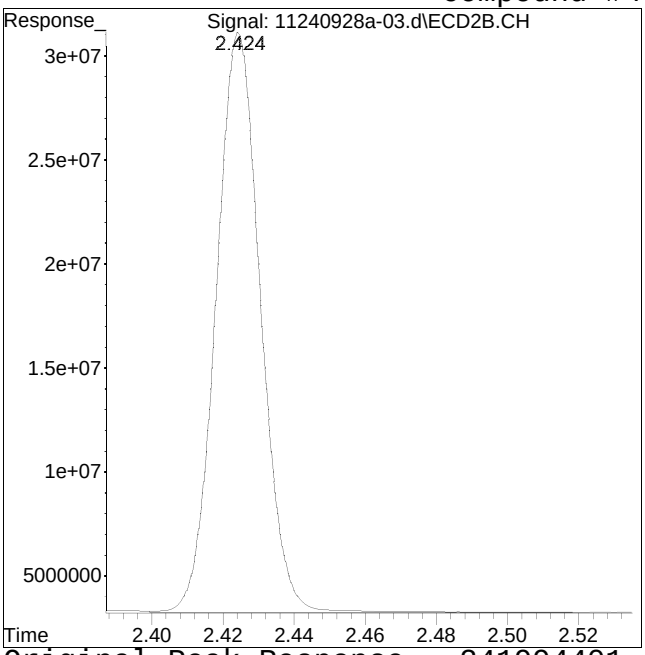


Original Peak Response = 359994879 Manual Peak Response = 358252660 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

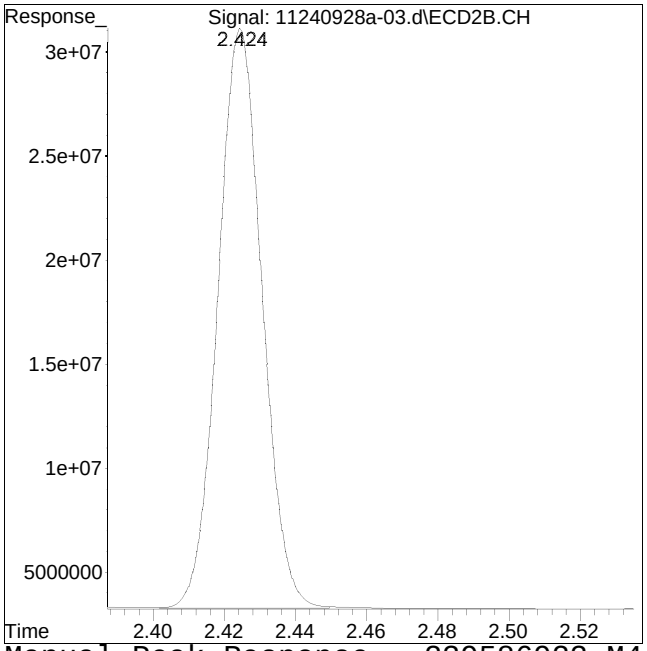
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #44: beta-BHC #2



Original Peak Response = 241994401



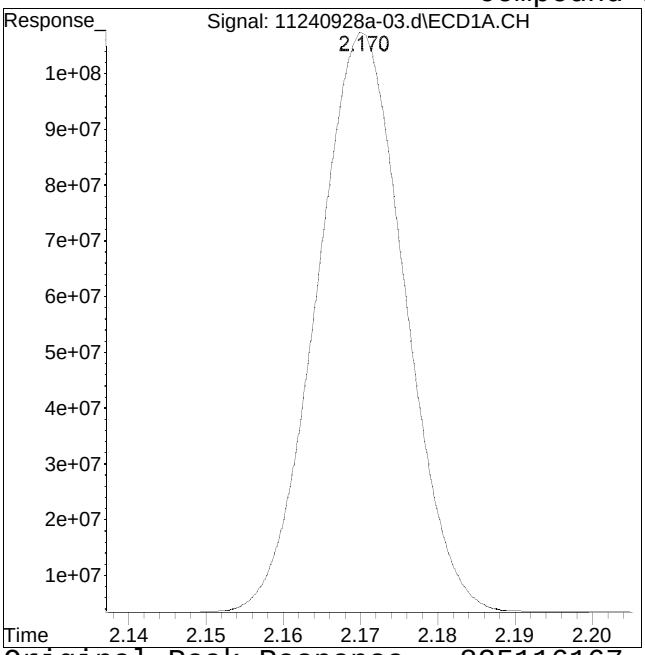
Manual Peak Response = 239586923 M4

M4 = Poor automated baseline construction.

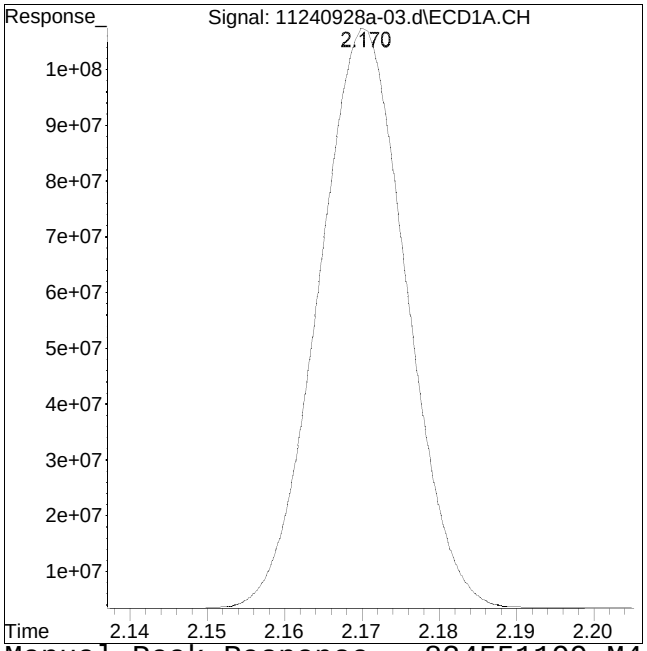
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #7: delta-BHC



Original Peak Response = 825116167

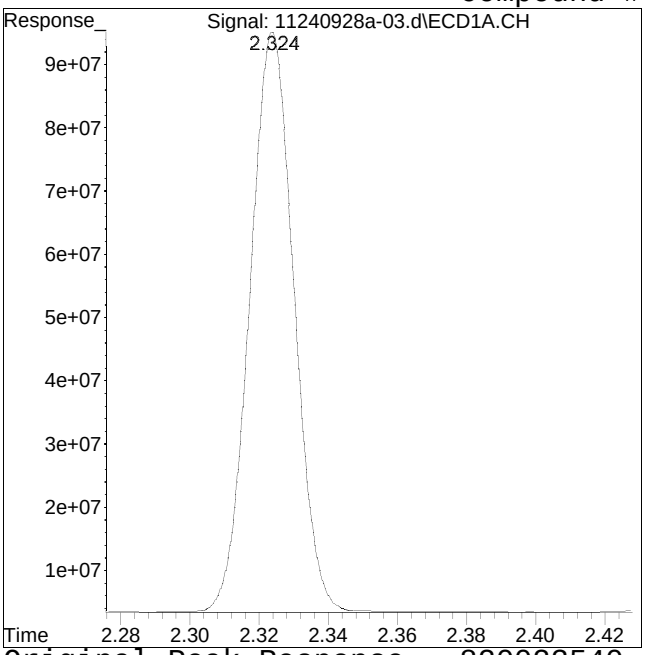


Manual Peak Response = 824551199 M4
M4 = Poor automated baseline construction.

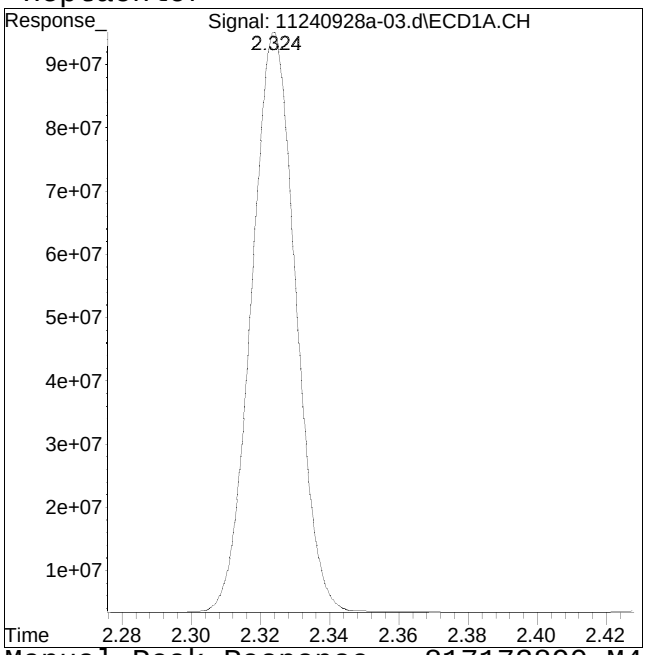
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #8: Heptachlor



Original Peak Response = 820023540



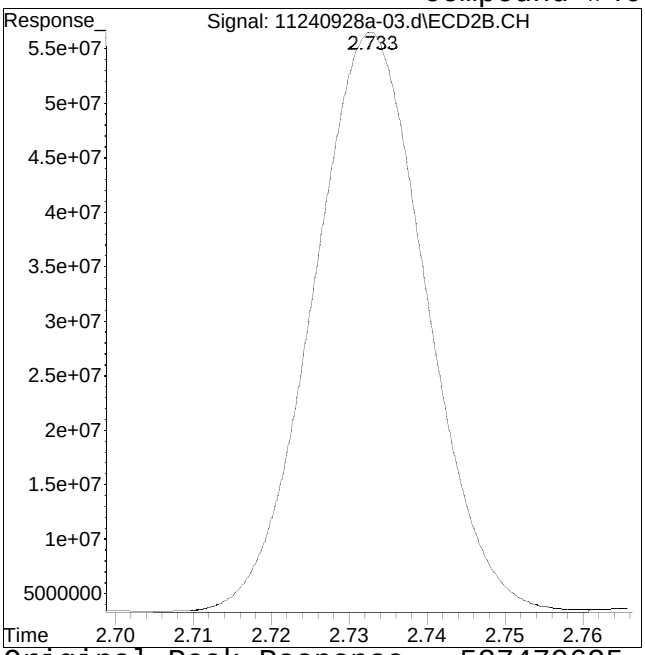
Manual Peak Response = 817173890 M4

M4 = Poor automated baseline construction.

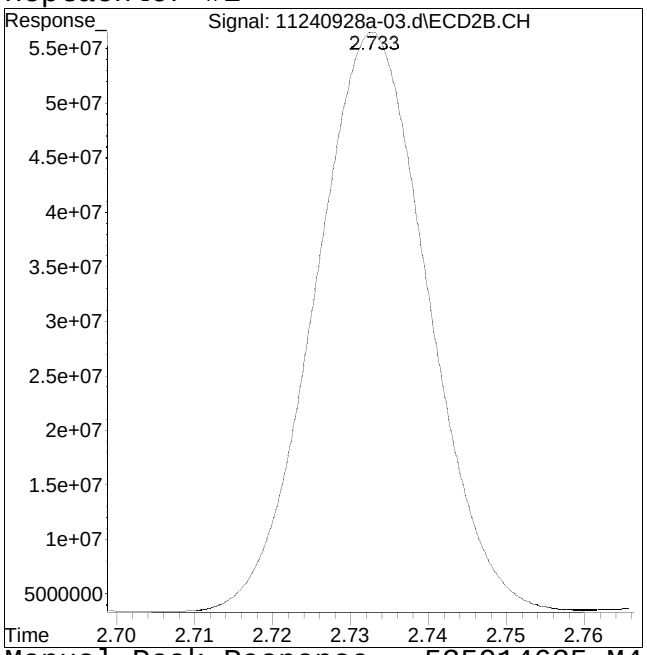
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #46: Heptachlor #2



Original Peak Response = 537479625



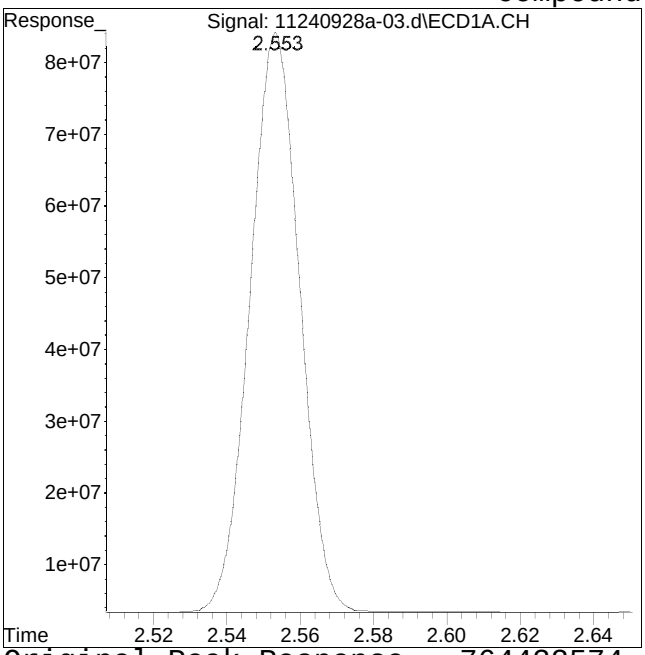
Manual Peak Response = 535914625 M4

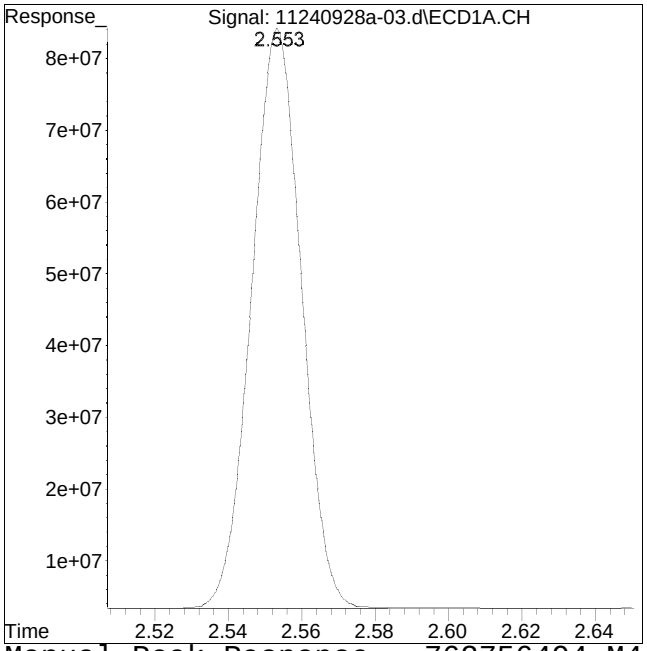
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #9: Aldrin



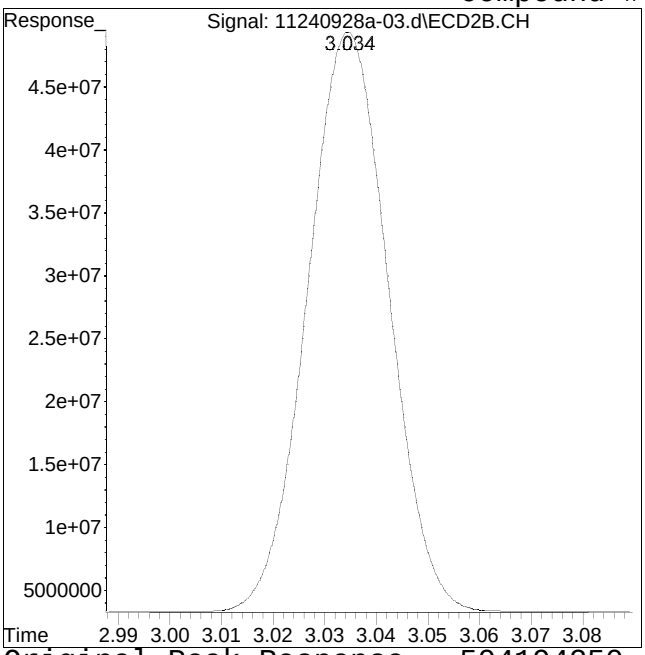


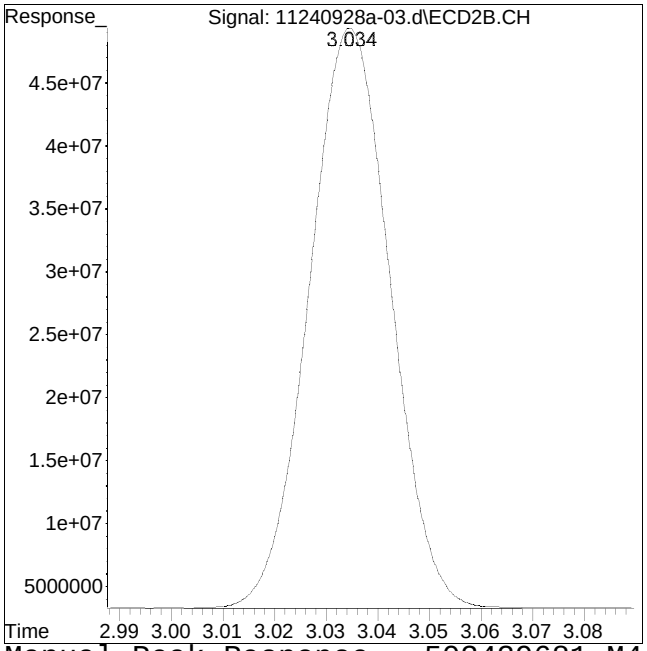
Original Peak Response = 764432574 Manual Peak Response = 762756494 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #47: Aldrin #2



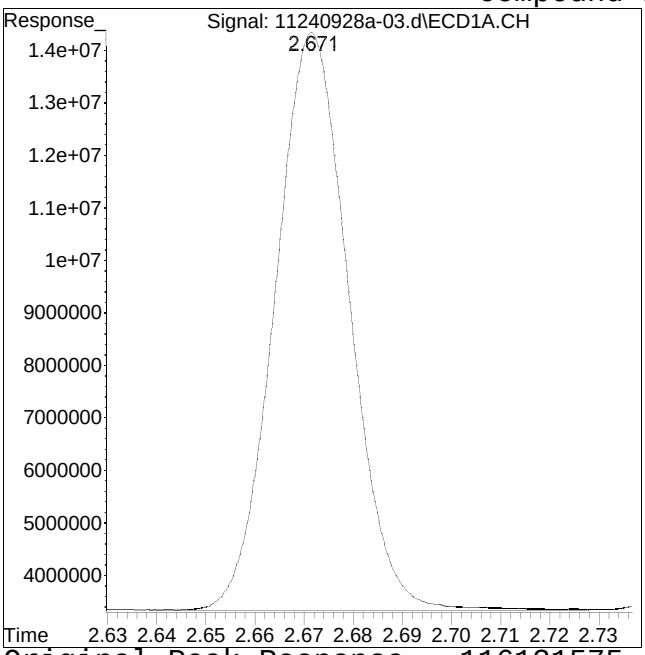


Original Peak Response = 504194250 Manual Peak Response = 503439681 M4
M4 = Poor automated baseline construction.

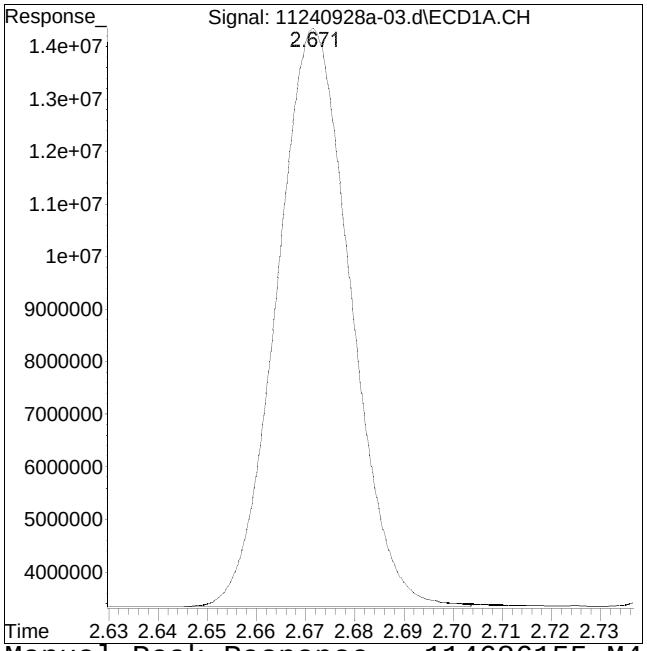
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #10: Alachlor



Original Peak Response = 116131575



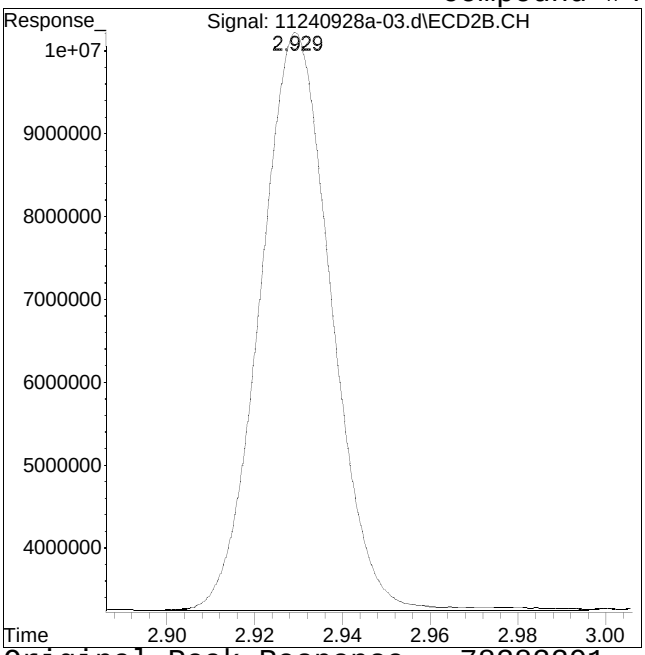
Manual Peak Response = 114686155 M4

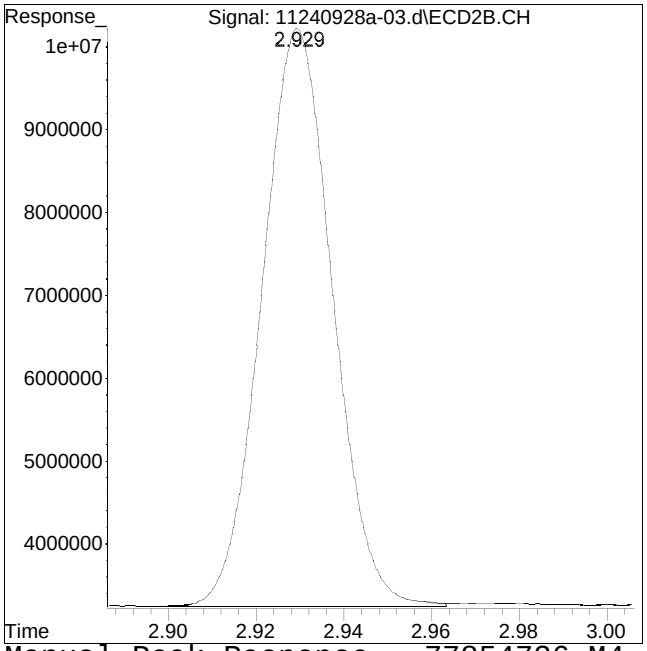
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #48: Alachlor #2



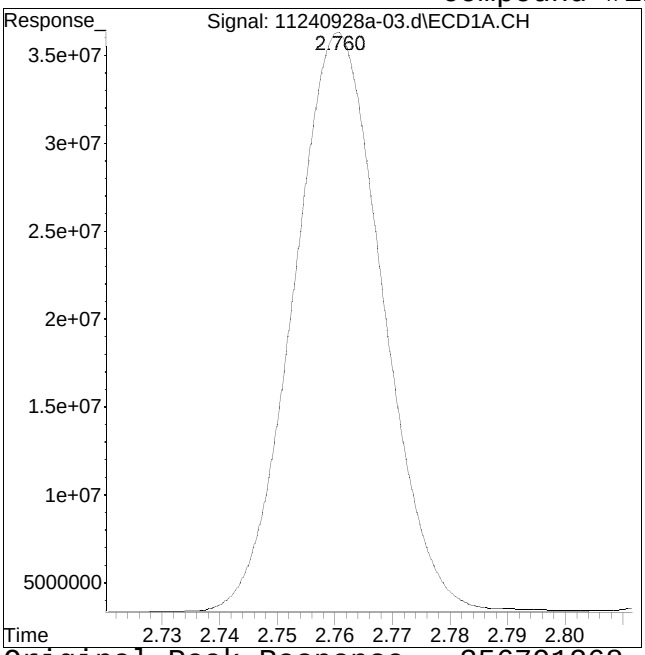


Original Peak Response = 78383291 Manual Peak Response = 77854726 M4
M4 = Poor automated baseline construction.

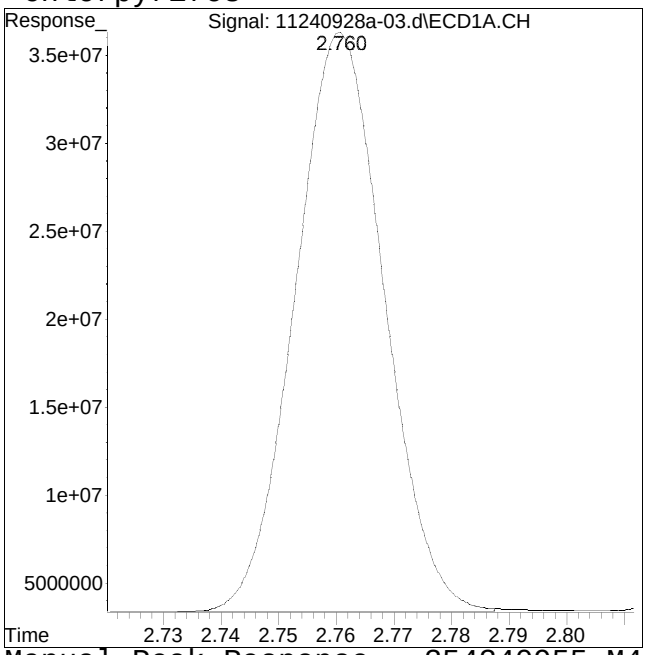
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #11: Chlorpyrifos



Original Peak Response = 356791268



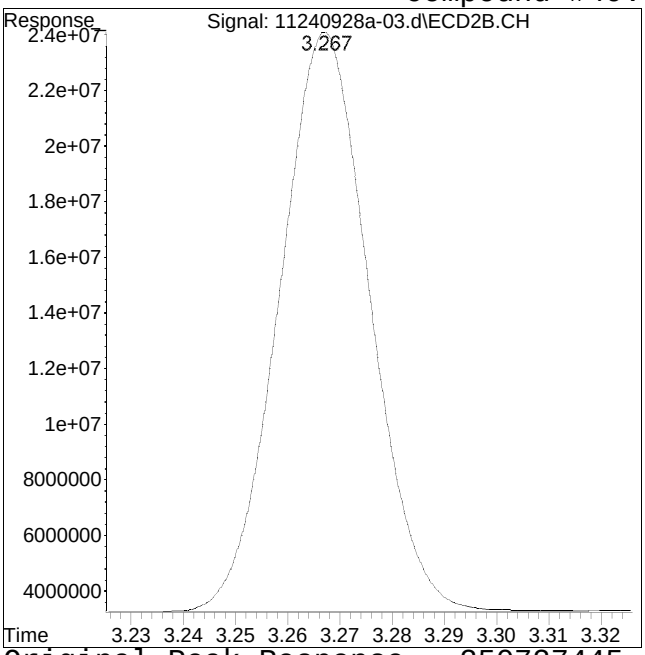
Manual Peak Response = 354340955 M4

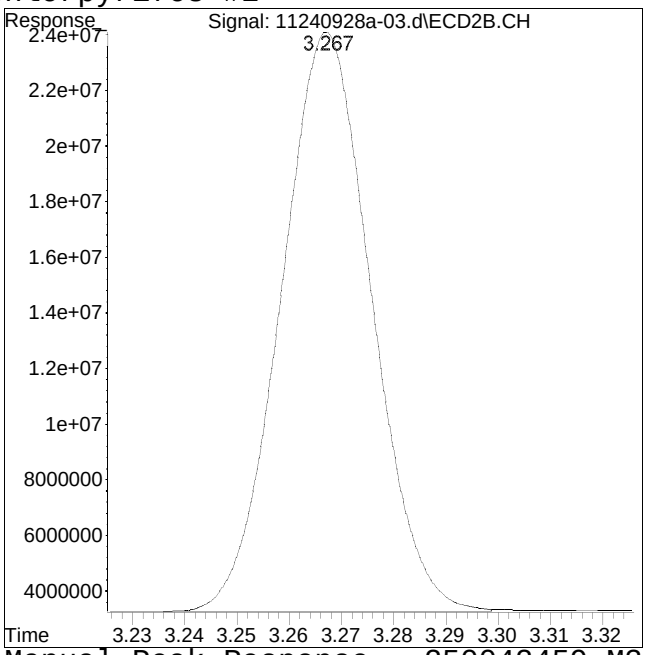
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #49: Chlorpyrifos #2



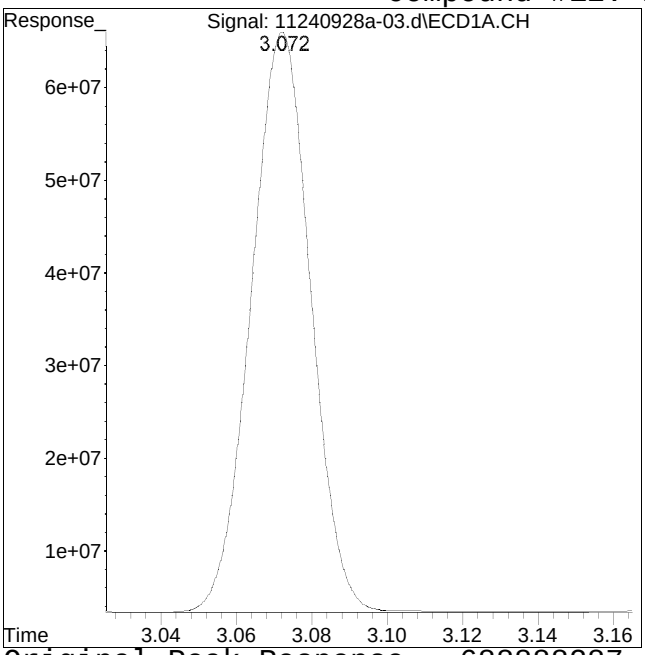


Original Peak Response = 250727445 Manual Peak Response = 250042459 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

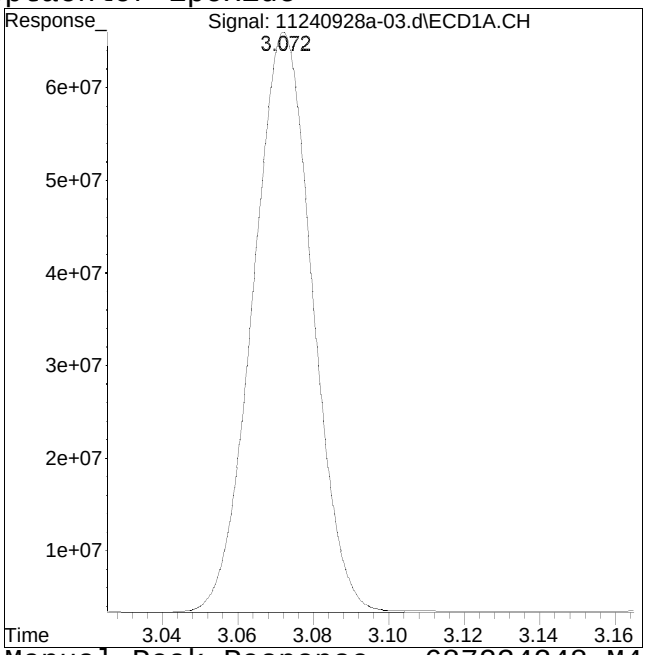
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 688888287



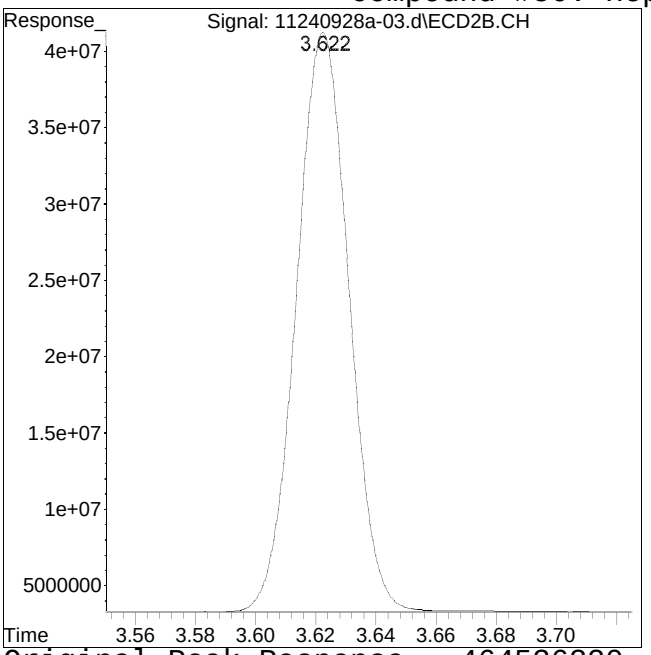
Manual Peak Response = 687234248 M4

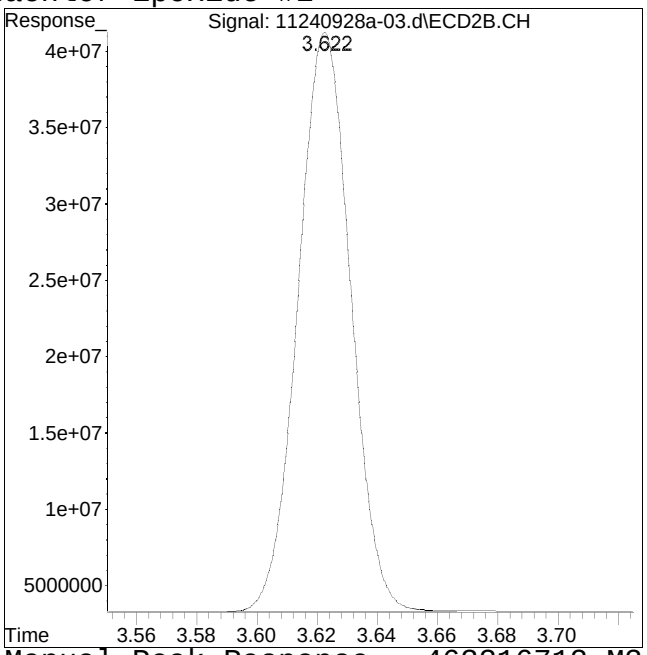
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #50: Heptachlor Epoxide #2



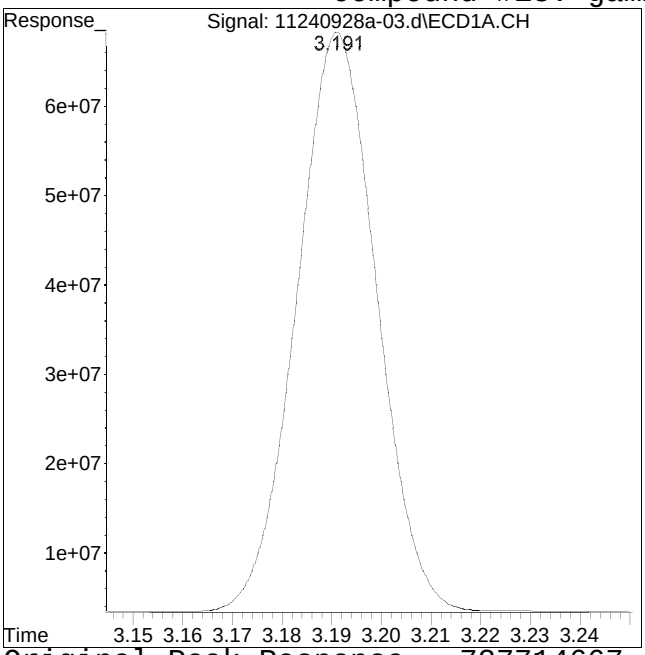


Original Peak Response = 464536320 Manual Peak Response = 463316712 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

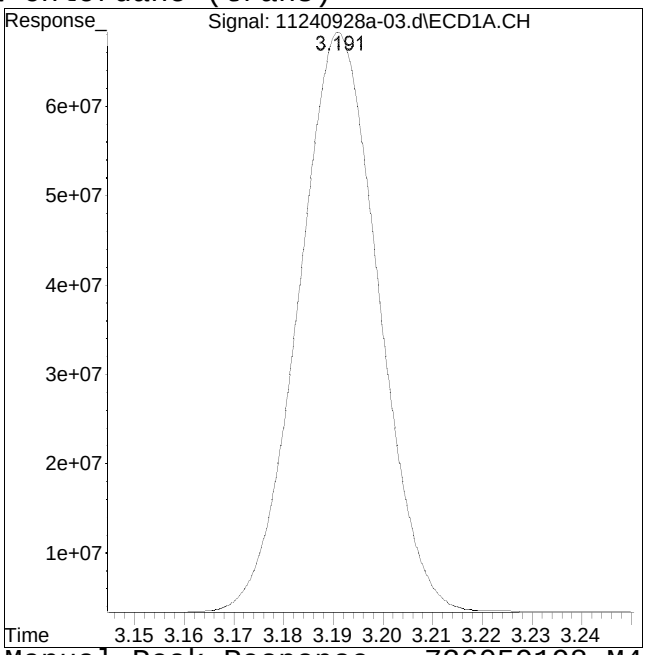
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 727714667



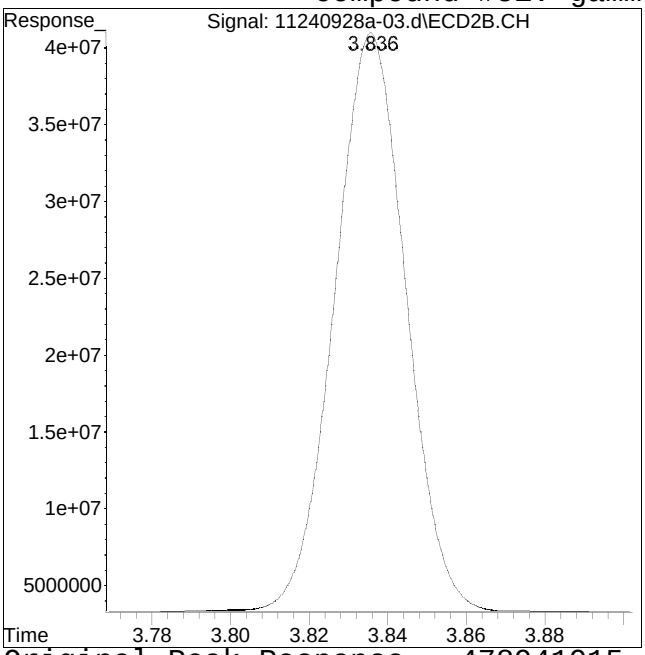
Manual Peak Response = 726059198 M4

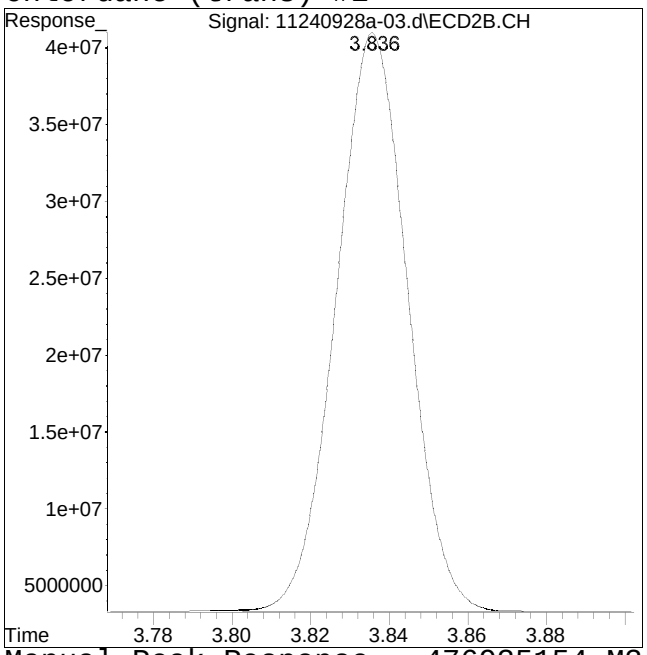
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #51: gamma-Chlordane (trans) #2



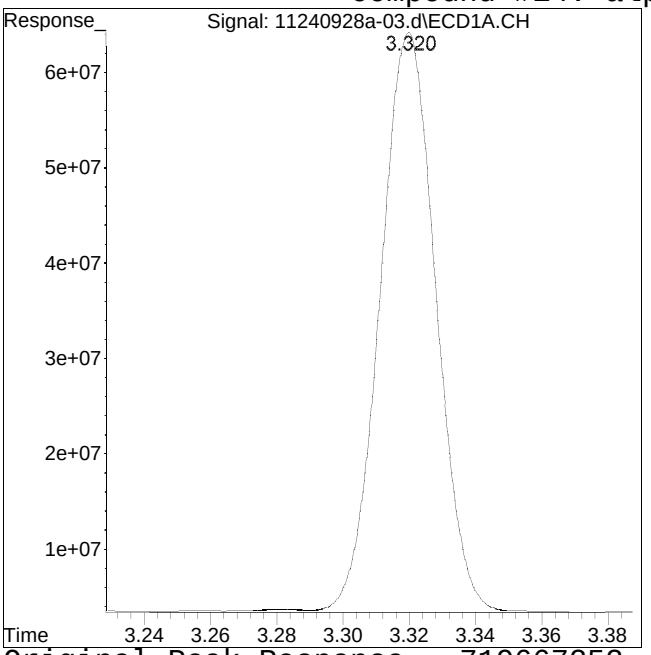


Original Peak Response = 478941915 Manual Peak Response = 476935154 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

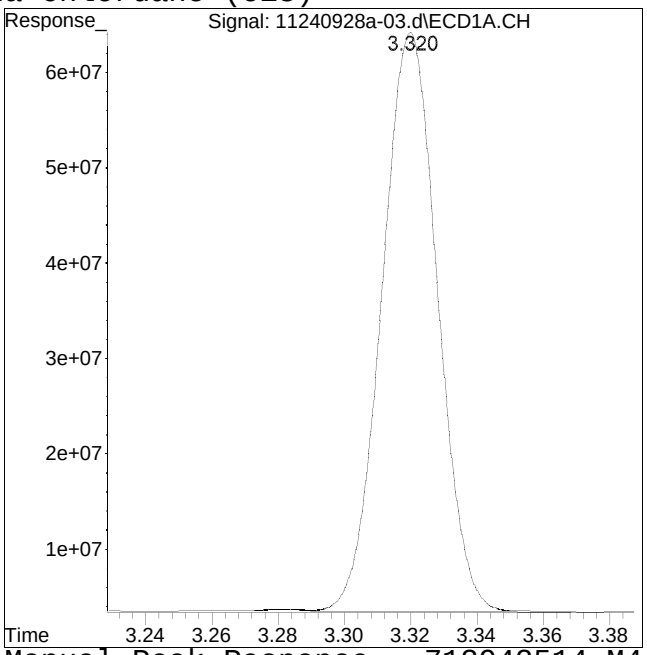
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 719667252

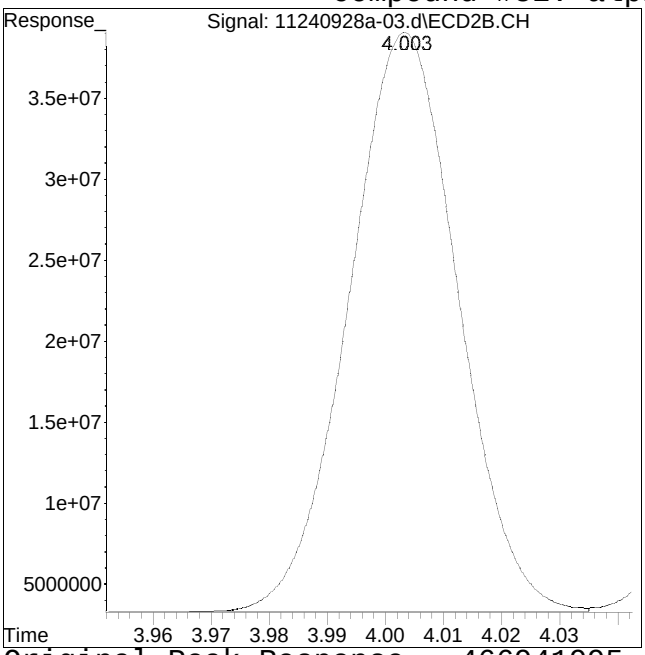


Manual Peak Response = 712942514 M4
M4 = Poor automated baseline construction.

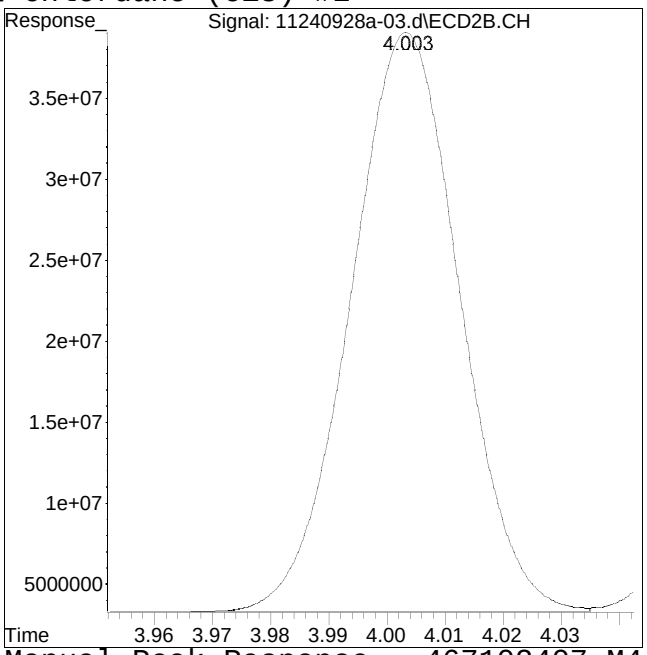
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 466941995

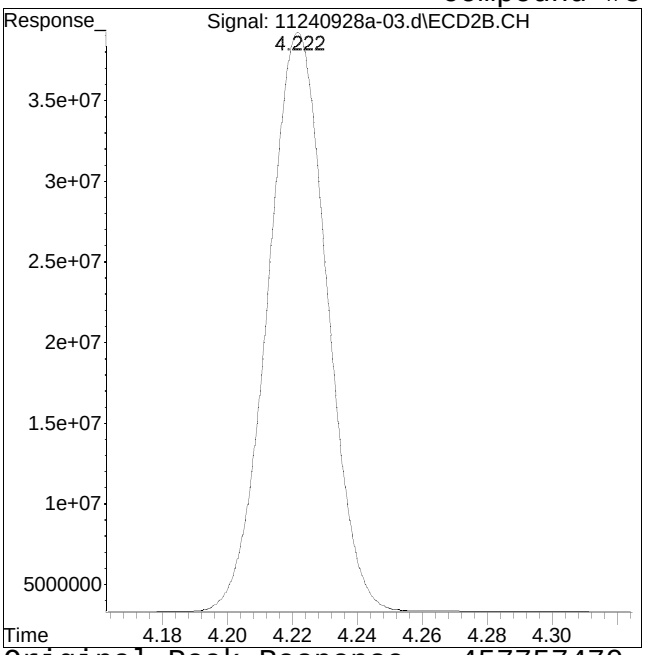


Manual Peak Response = 467102407 M4
M4 = Poor automated baseline construction.

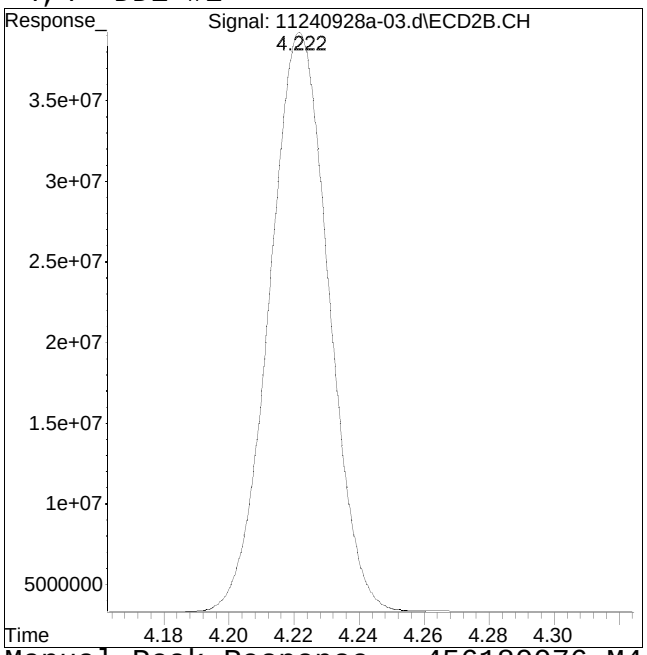
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 457757470

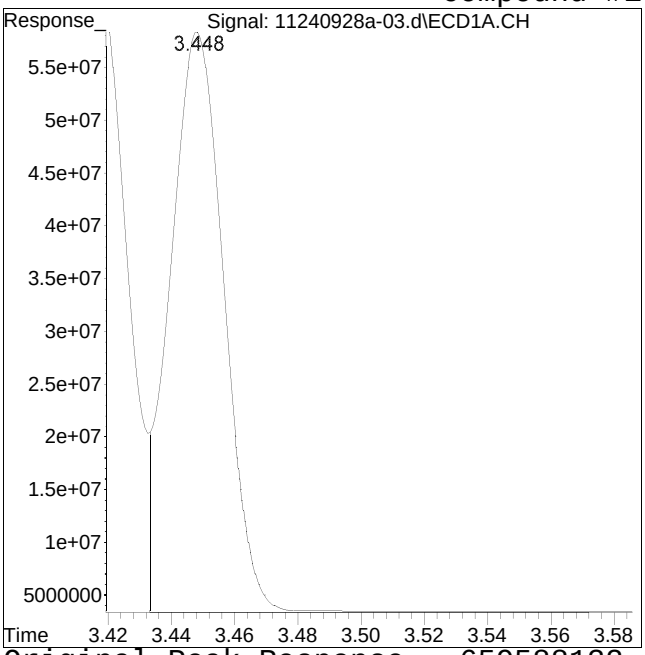


Manual Peak Response = 456180076 M4
M4 = Poor automated baseline construction.

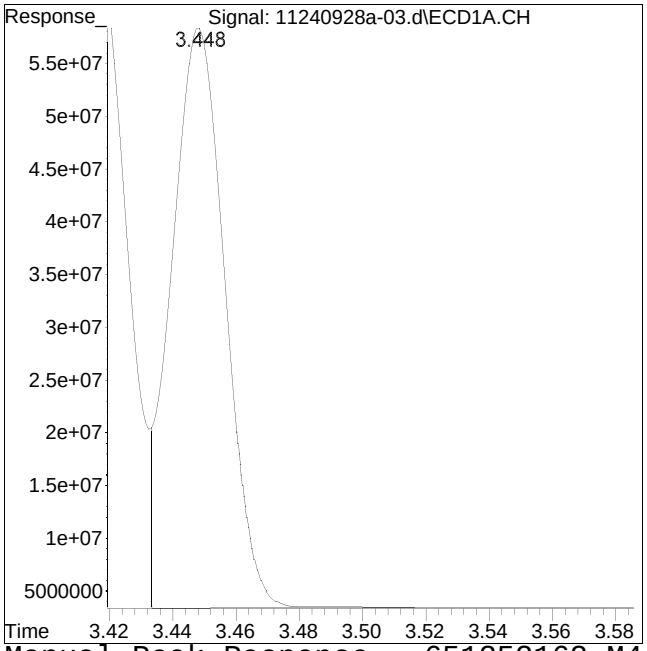
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #16: Endosulfan I



Original Peak Response = 659588132



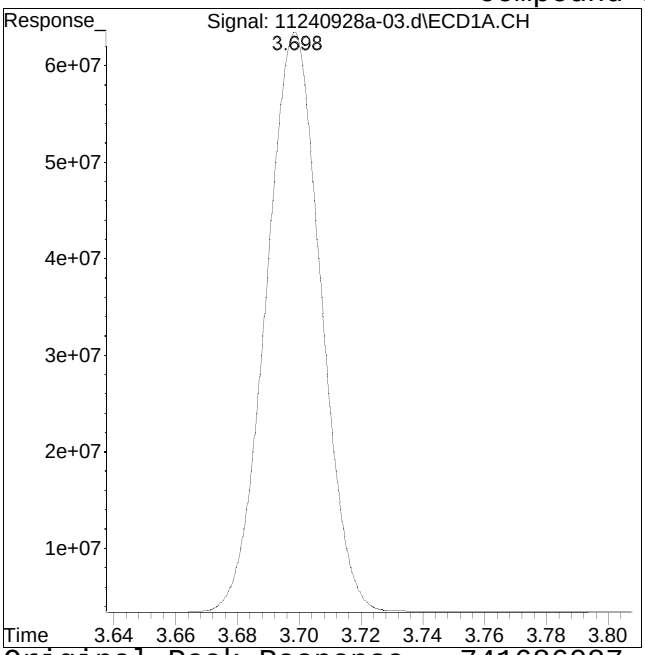
Manual Peak Response = 651252162 M4

M4 = Poor automated baseline construction.

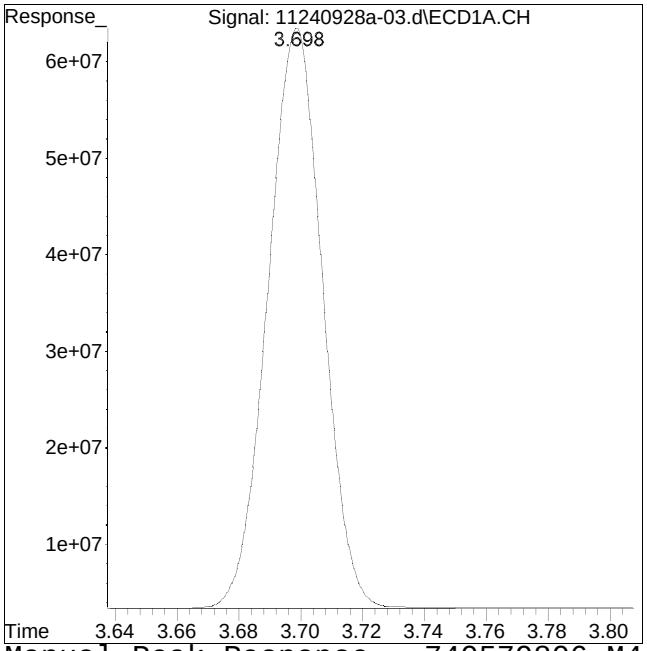
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #17: Dieldrin



Original Peak Response = 741686087



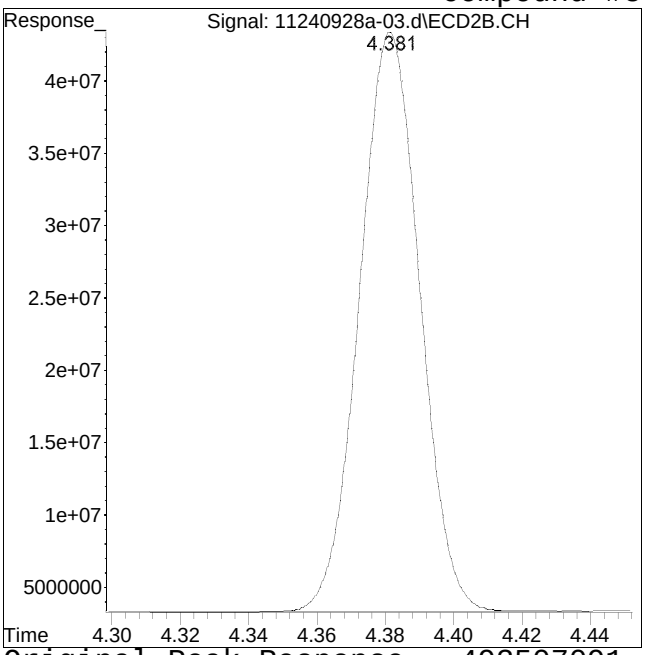
Manual Peak Response = 740579806 M4

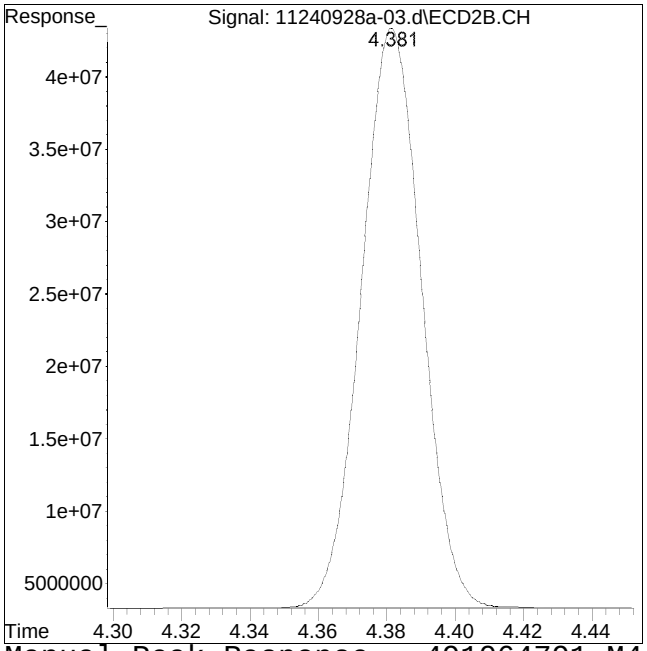
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #55: Dieldrin #2



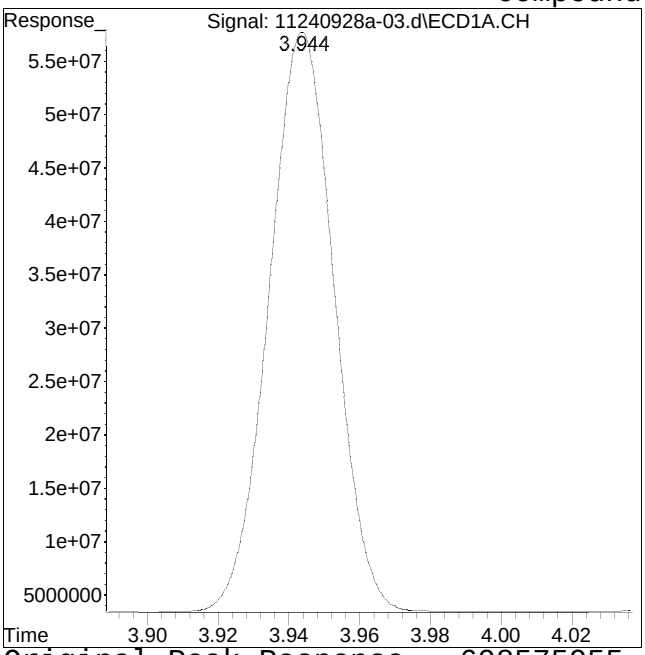


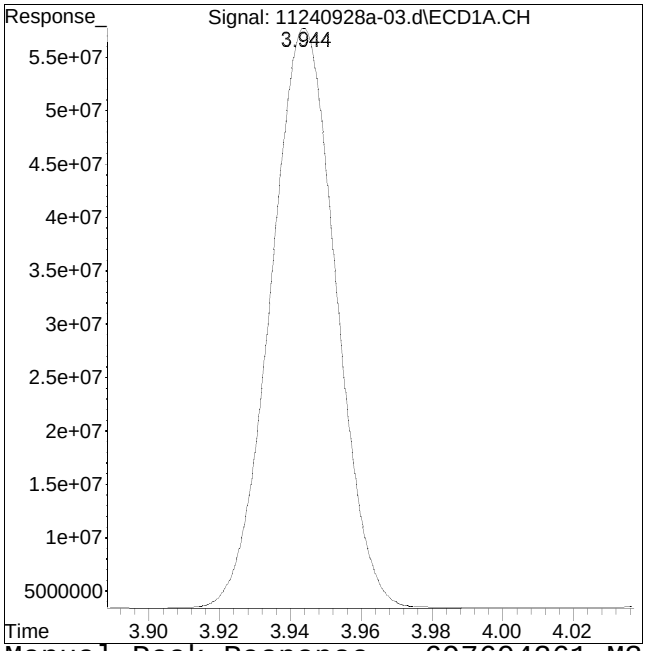
Original Peak Response = 493507091 Manual Peak Response = 491064791 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #18: Endrin



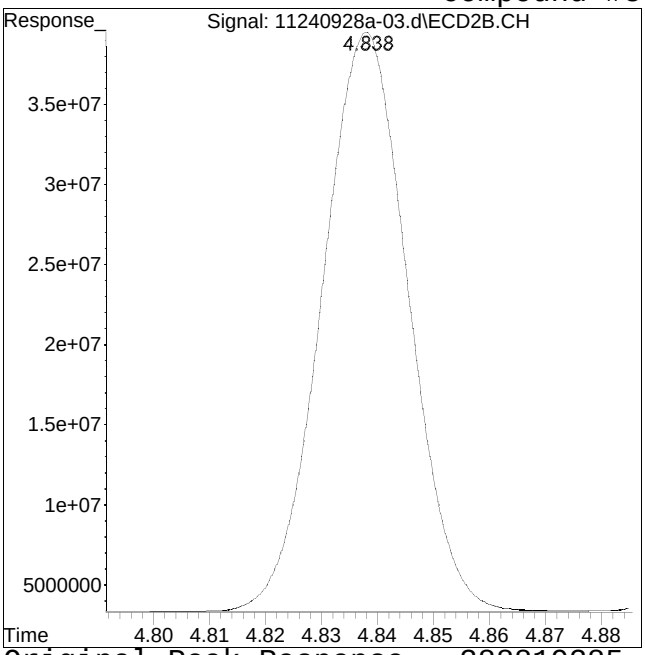


Original Peak Response = 698575955 Manual Peak Response = 697604261 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

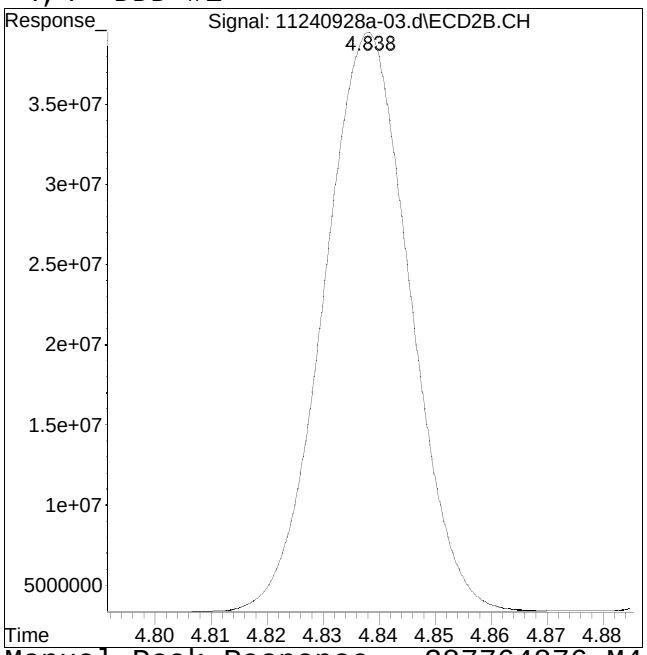
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 388819385



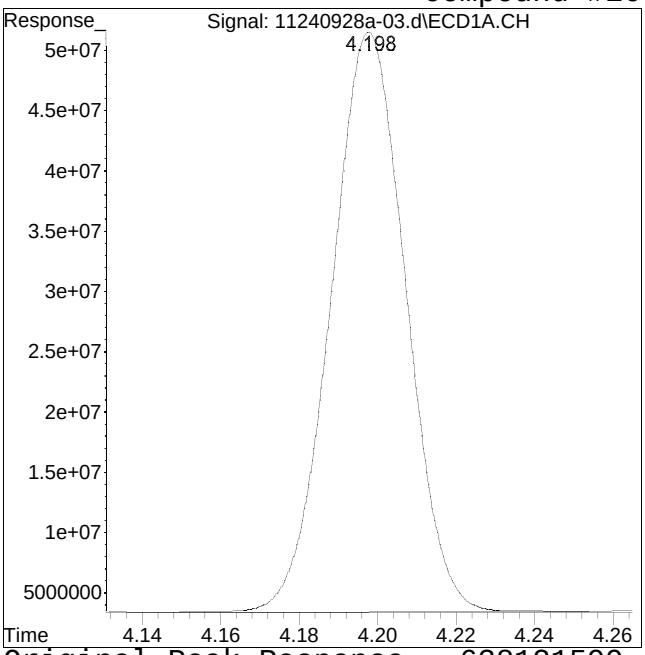
Manual Peak Response = 387764876 M4

M4 = Poor automated baseline construction.

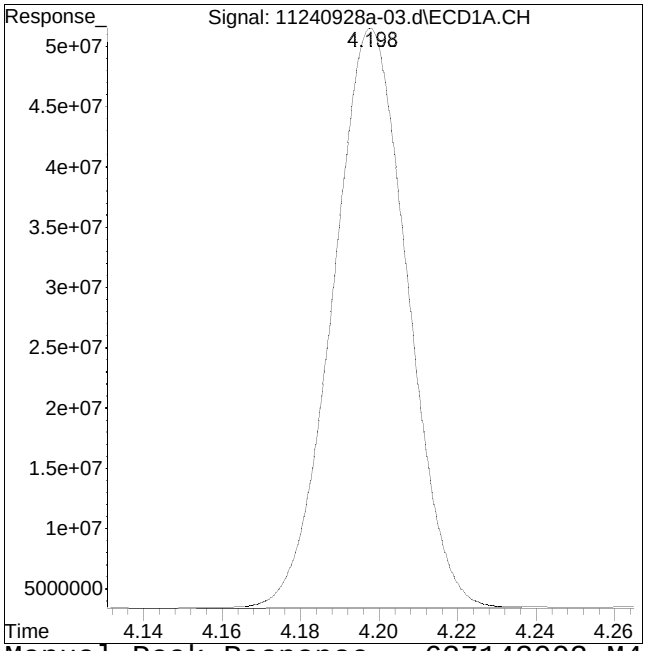
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #20: Endosulfan II



Original Peak Response = 638121599



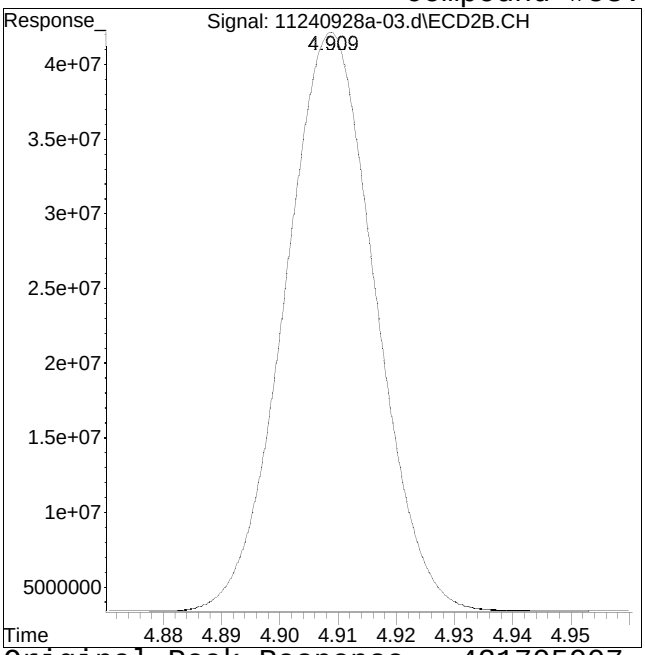
Manual Peak Response = 637143003 M4

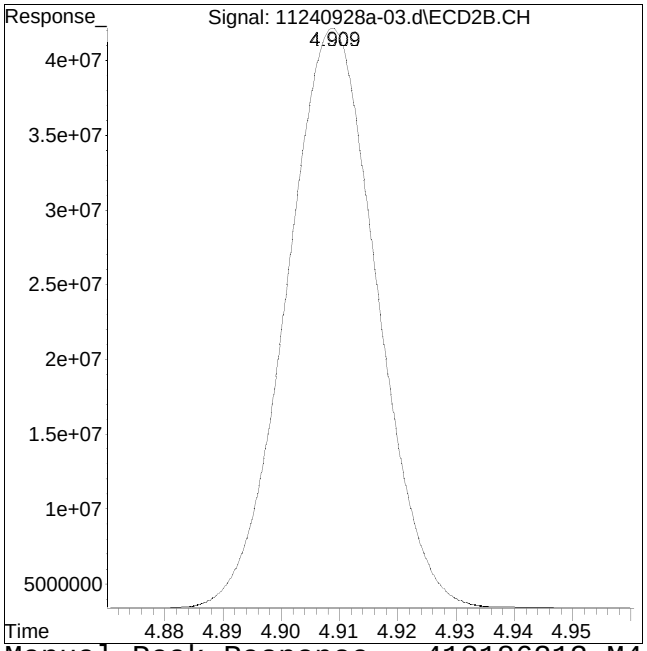
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #58: Endosulfan II #2



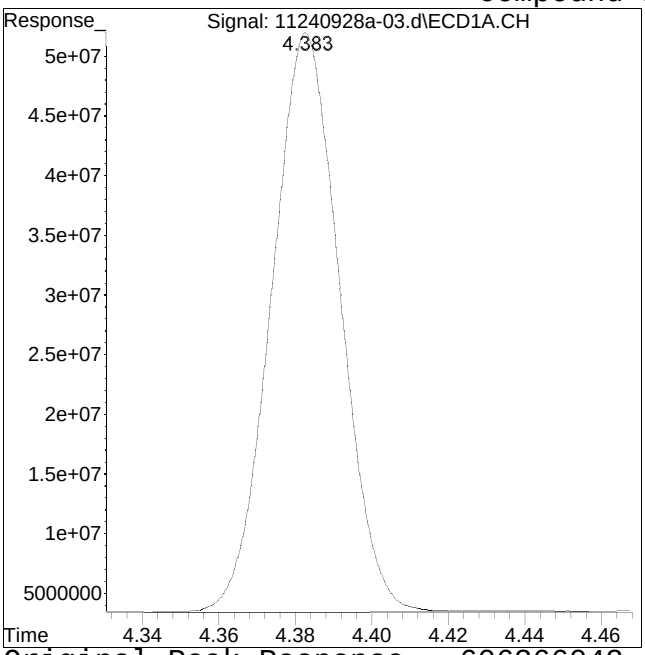


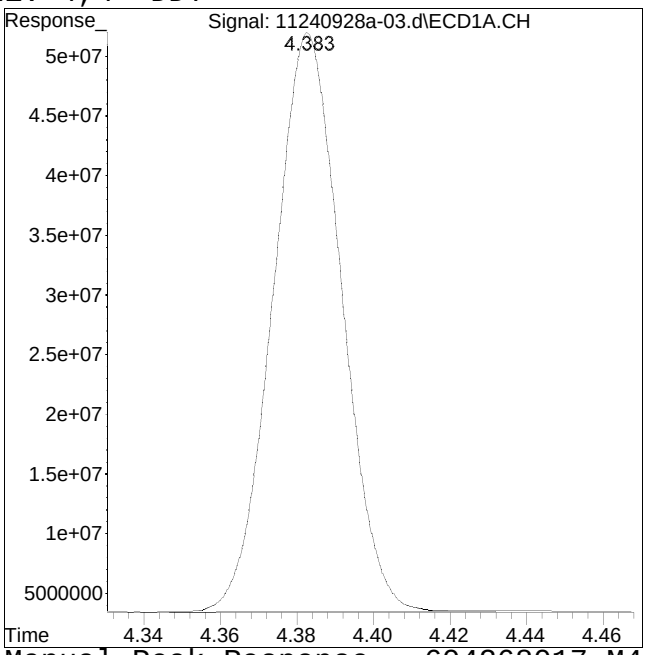
Original Peak Response = 421705907 Manual Peak Response = 418186213 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #21: 4,4'-DDT



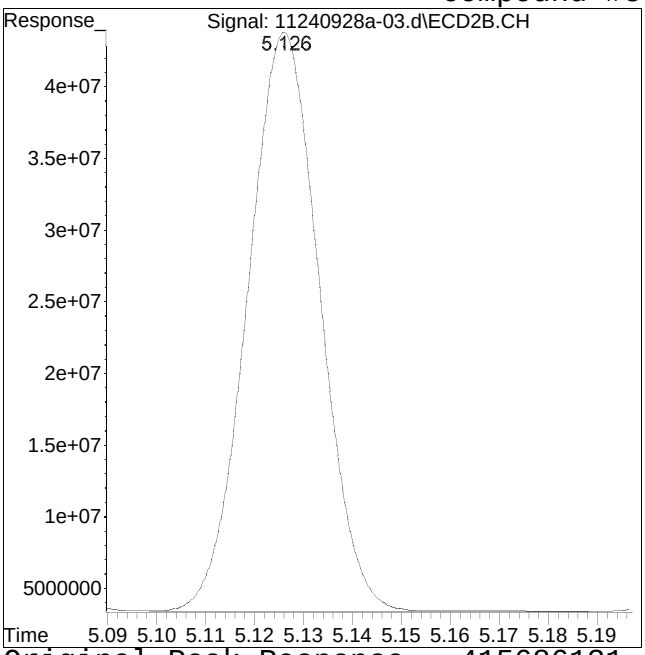


Original Peak Response = 606366042 Manual Peak Response = 604268017 M4
M4 = Poor automated baseline construction.

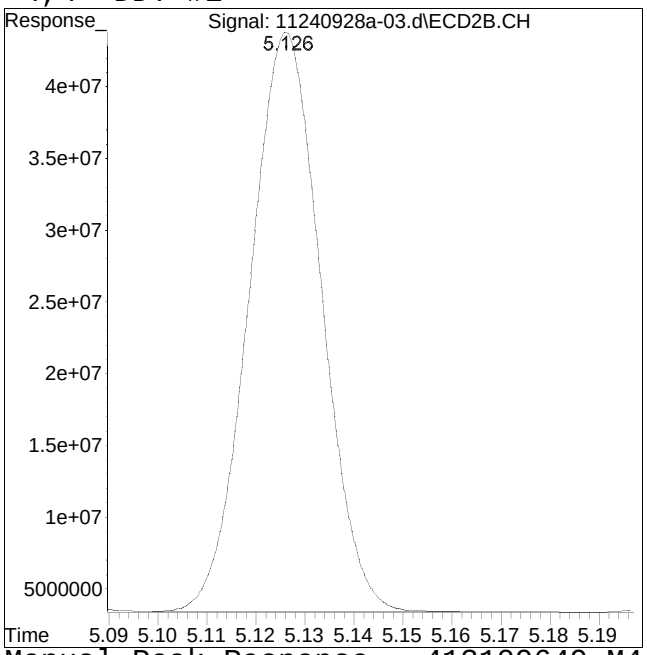
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 415686131



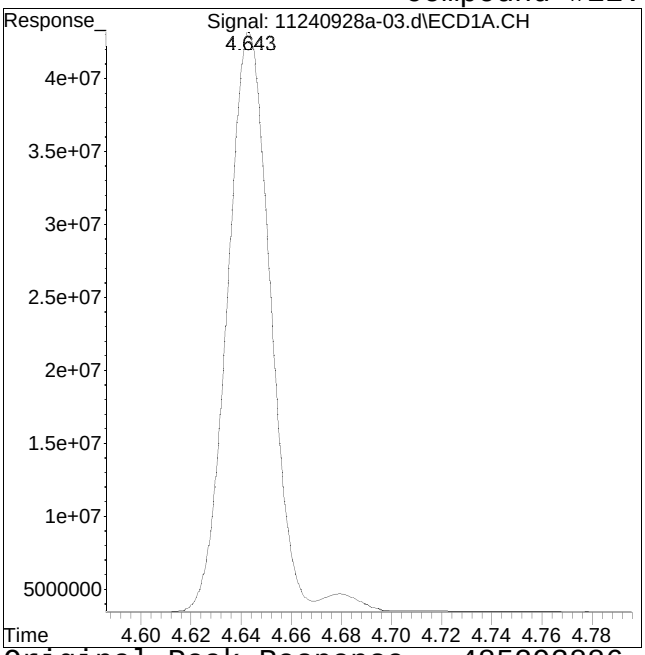
Manual Peak Response = 413109649 M4

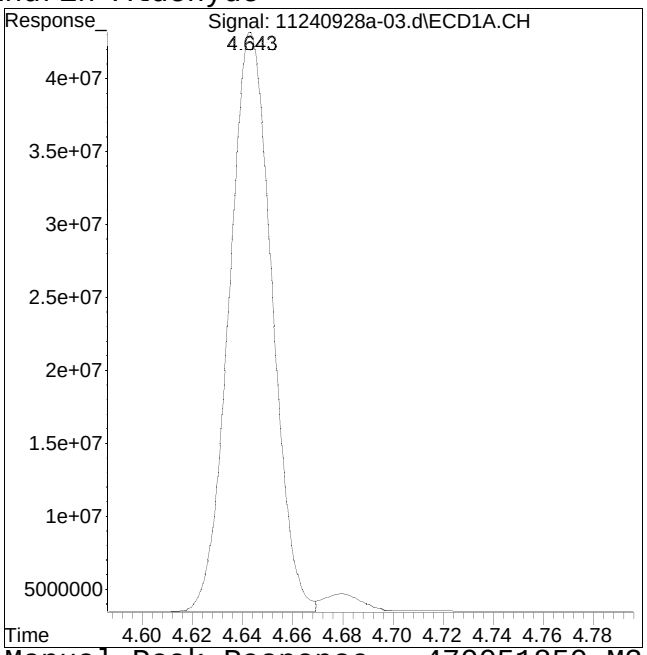
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #22: Endrin Aldehyde



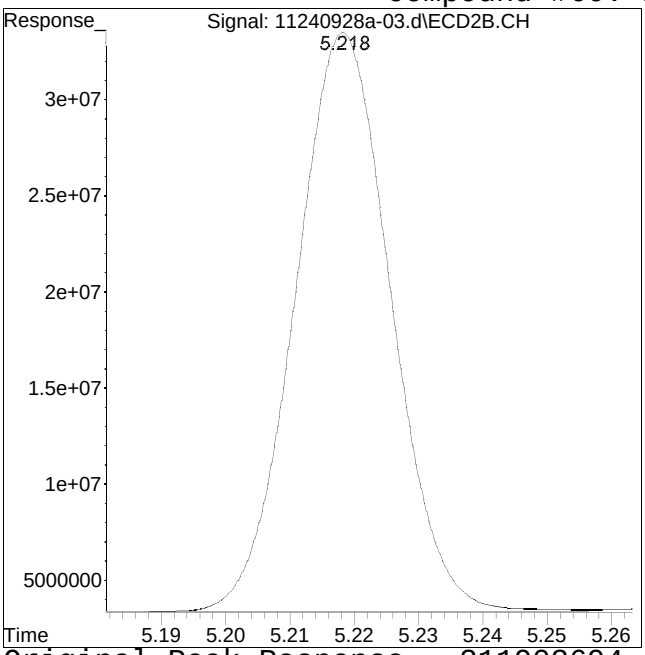


Original Peak Response = 485293886 Manual Peak Response = 470051850 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

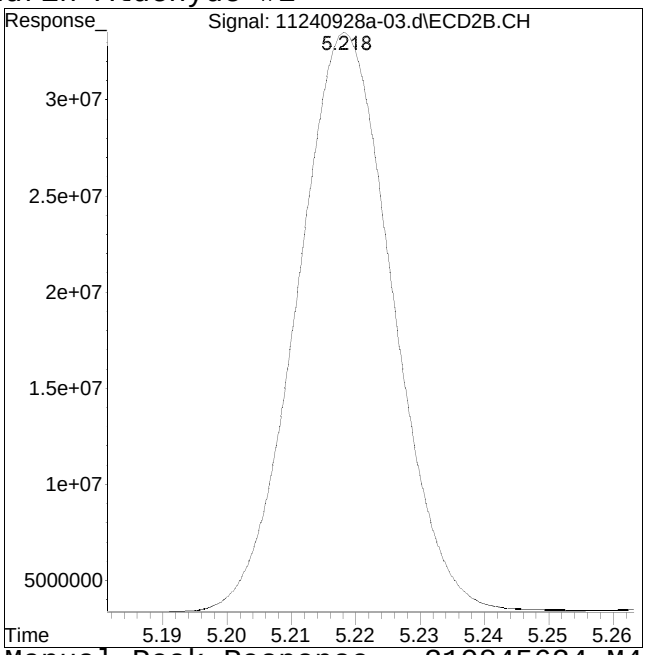
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 311903694



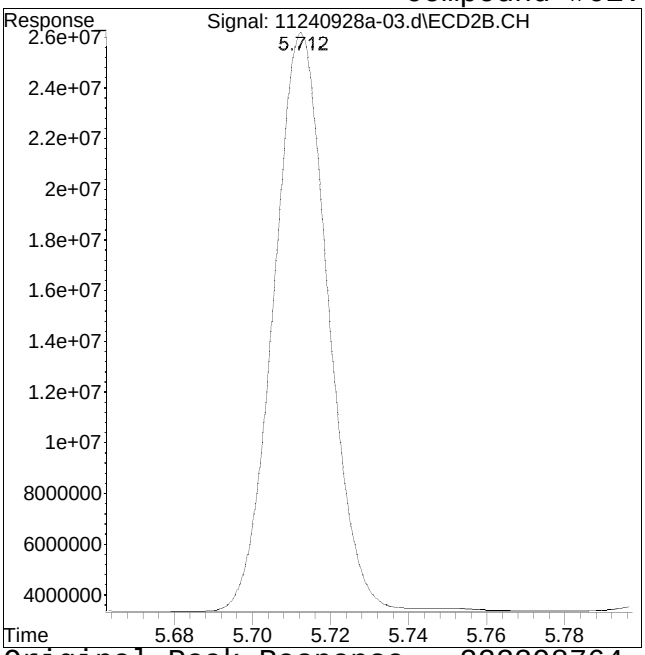
Manual Peak Response = 310845624 M4

M4 = Poor automated baseline construction.

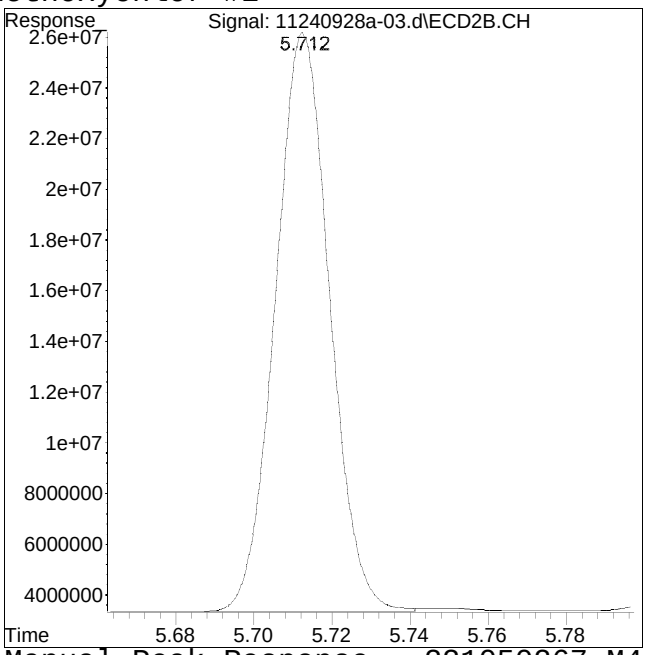
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #61: Methoxychlor #2



Original Peak Response = 223398764

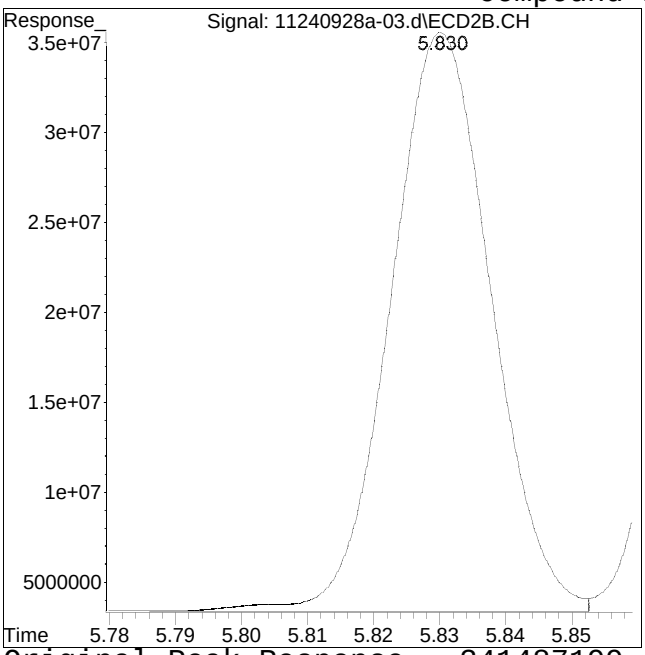


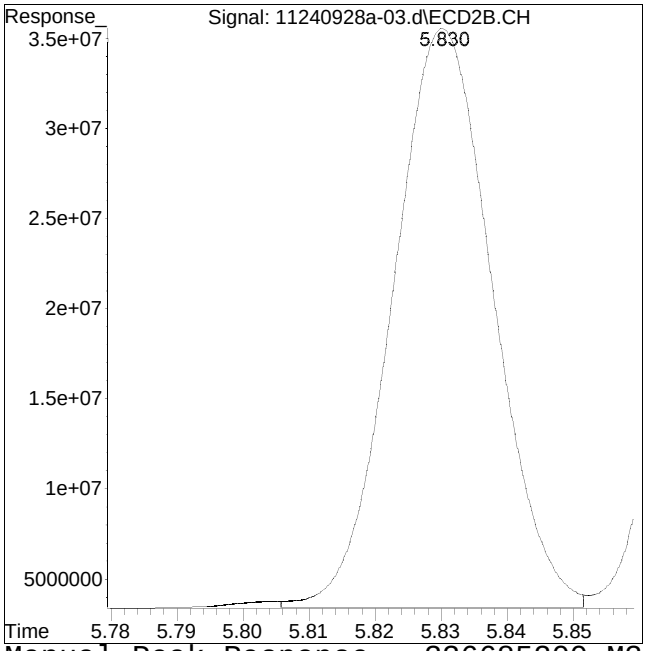
Manual Peak Response = 221050267 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #62: Mirex #2



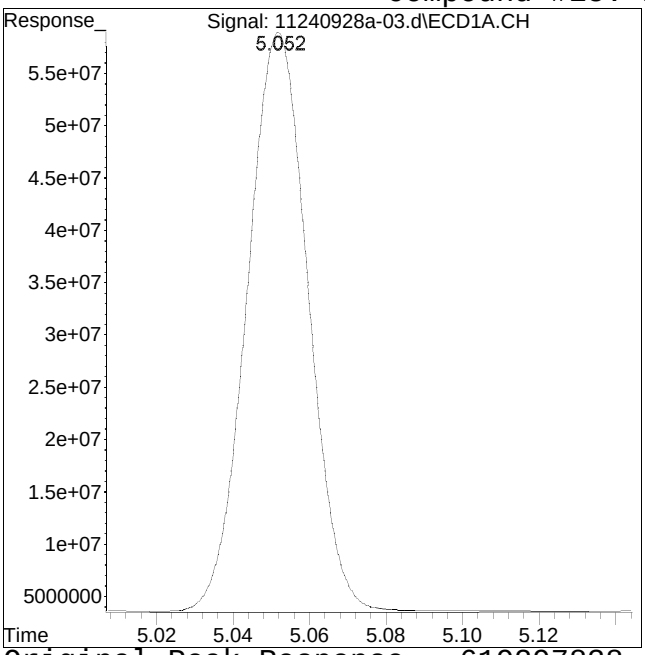


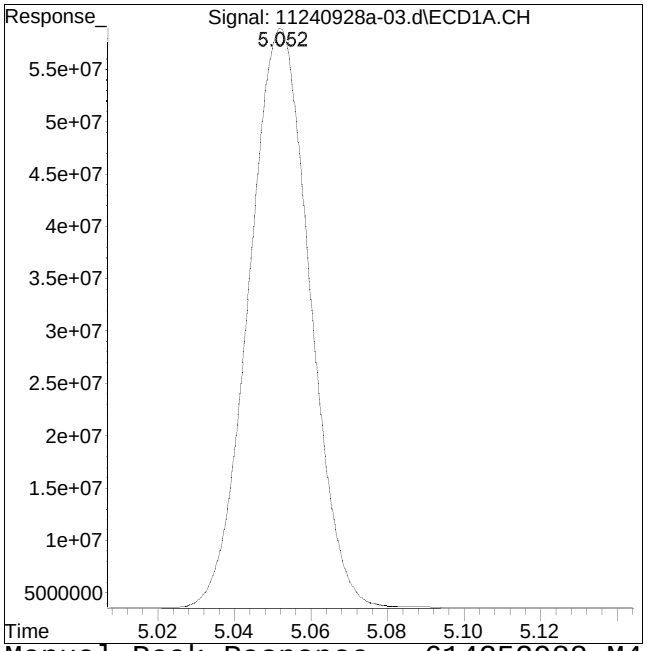
Original Peak Response = 341487199 Manual Peak Response = 336685200 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #25: Endosulfan Sulfate



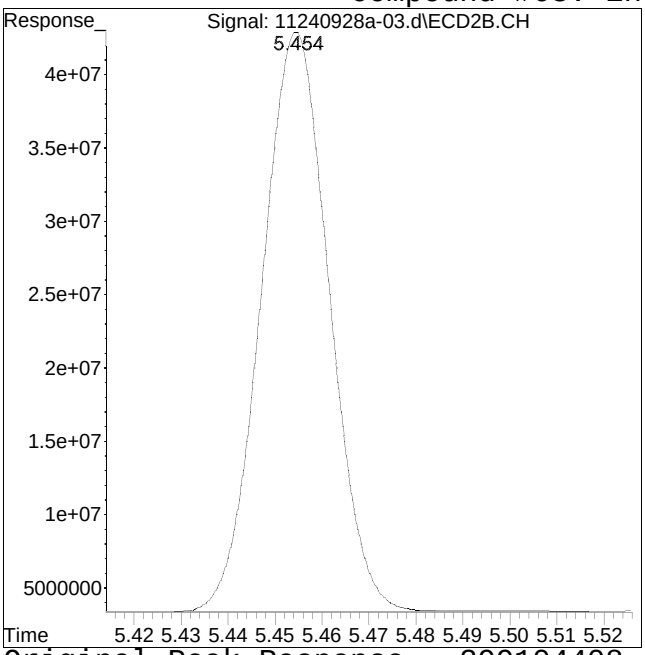


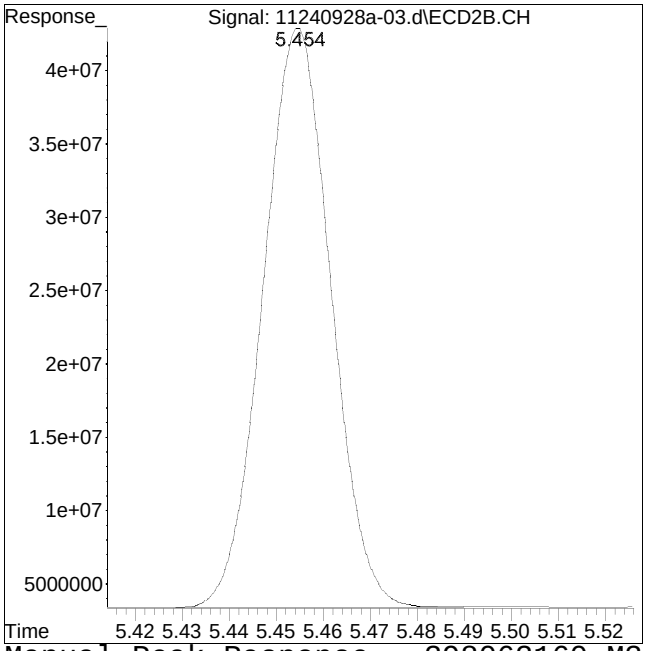
Original Peak Response = 619297838 Manual Peak Response = 614252988 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #63: Endosulfan Sulfate #2



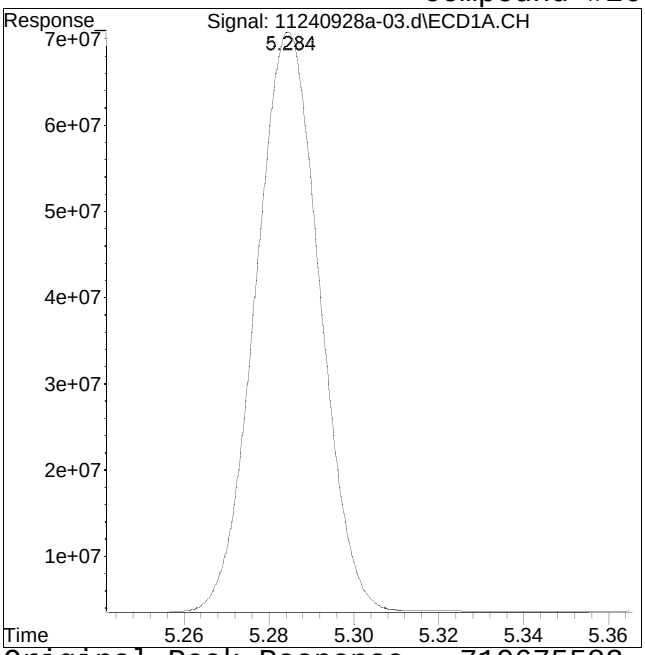


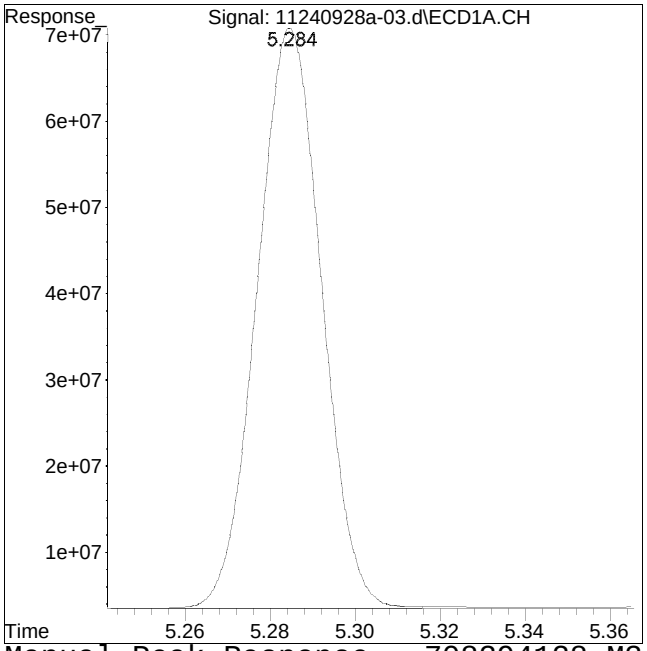
Original Peak Response = 399104408 Manual Peak Response = 398063160 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #26: Endrin Ketone



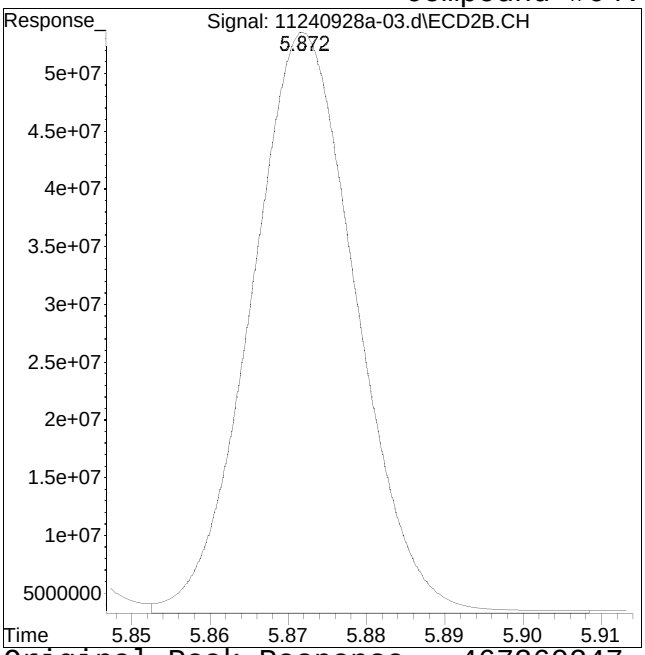


Original Peak Response = 710675583 Manual Peak Response = 708394128 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

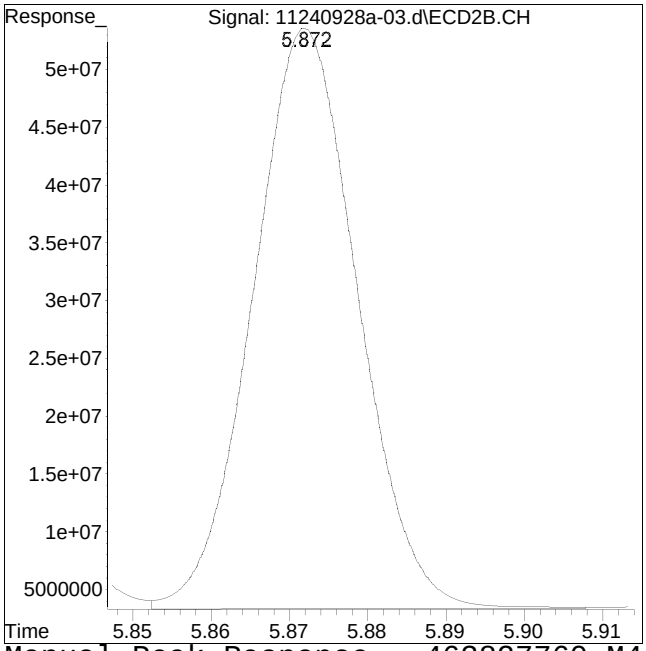
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 467360247



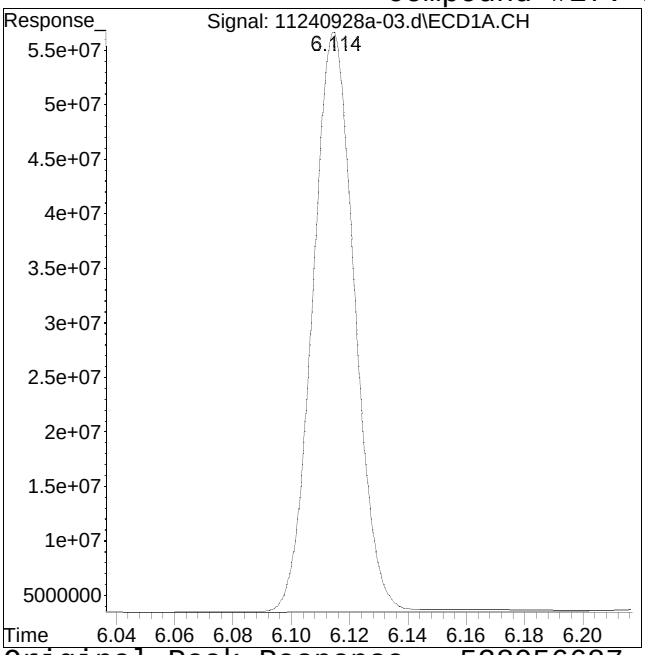
Manual Peak Response = 463827760 M4

M4 = Poor automated baseline construction.

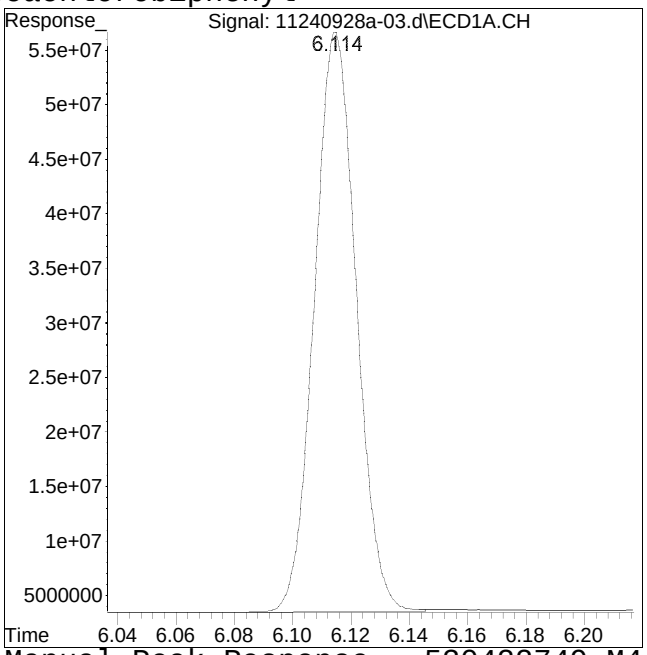
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 538056687



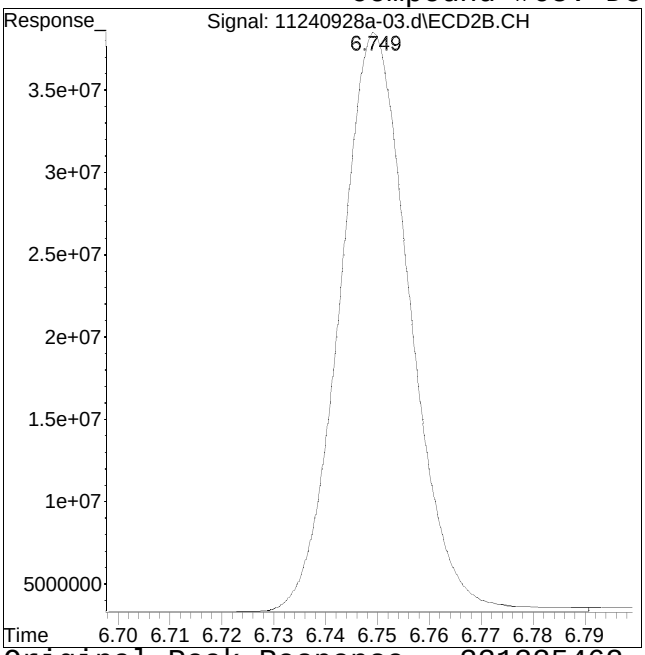
Manual Peak Response = 530422749 M4

M4 = Poor automated baseline construction.

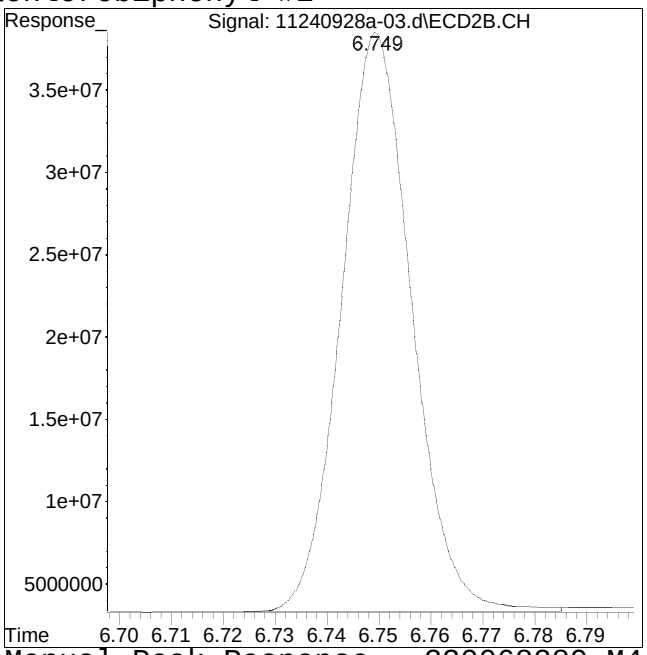
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-03.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:31 Instrument : Pest 11
Sample : wg1977568-1,42,,pest11675 Quant Date : 9/28/2024 12:20 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 331335462



Manual Peak Response = 330068280 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Sep 2024 10:43
Operator : PEST11:jag
Sample   : wg1977568-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc   : wg1977568,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:21:23 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:21:17 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	131	0.00
29	l1	chlordane-1		*1000.000	1044.381	-4.4	133	0.00
30	l1	chlordane-3		*1000.000	1050.773	-5.1	129	0.00
31	l1	chlordane-4		*1000.000	1040.976	-4.1	130	0.00
32	l1	chlordane-5		*1000.000	1165.121	-16.5	144	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	113	0.00
29	l1	chlordane-1		*1000.000	917.055	8.3	97	0.00
30	l1	chlordane-3		*1000.000	935.408	6.5	95	0.00
31	l1	chlordane-4		*1000.000	842.936	15.7	89	0.00
32	l1	chlordane-5		*1000.000	834.856	16.5	88	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.19#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.51#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.71#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.81#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.00#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.05#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.17#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.32#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.55#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.67#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.76#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.07#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.19#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Sep 2024 10:43
Operator : PEST11:jag
Sample   : wg1977568-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc   : wg1977568,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:21:23 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:21:17 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.32#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.42#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.45#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.70#
18	t	Endrin		1.153	0.000	100.0#	0#	-3.94#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.07#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.20#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.38#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.64#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-4.90#
24	t	Mirex		0.938	0.000	100.0#	0#	-4.95#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.05#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.28#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.11#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.19#
34	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.19#
35	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-4.32#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-4.57#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-4.95#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.26#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.70#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.00#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.09#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.36#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.42#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.68#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Sep 2024 10:43
Operator : PEST11:jag
Sample   : wg1977568-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc   : wg1977568,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:21:23 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:21:17 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.73#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.03#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-2.93#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.27#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.62#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-3.84#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.00#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.22#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.07#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.38#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.70#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-4.84#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-4.91#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.13#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.22#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.71#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.83#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.45#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-5.87#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.75#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.26#
34	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-4.87#
35	l2	toxaphene-3	*	2000.000	0.000	100.0#	0	-4.90#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-5.23#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-5.64#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2024 10:43
Operator : PEST11:jag
Sample : wg1977568-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc : wg1977568,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:21:23 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:21:17 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.189	1.261	290.8E6	208.8E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2024 10:43
Operator : PEST11:jag
Sample : wg1977568-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc : wg1977568,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:21:23 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:21:17 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d	
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29) l1	chlordane-1	2.265	2.607	442.2E6	284.9E6	1044.381	917.055	
30) l1	chlordane-3	2.661	3.183	517.1E6	319.6E6	1050.773	935.408	
31) l1	chlordane-4	3.192	3.837	1884.4E6	1099.5E6	1040.976	842.936	
32) l1	chlordane-5	3.312	4.005	3237.3E6	836.7E6	1165.121	834.856	
Sum	chlordane-1			6081.0E6	2540.8E6	N.D.	N.D.	D
Average	chlordane-1					1075.313	882.564	
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d	
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	toxaphene-2			0	0	N.D.	N.D.	
Average	toxaphene-2					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.	
Average	toxaphene-2					0.000	0.000	

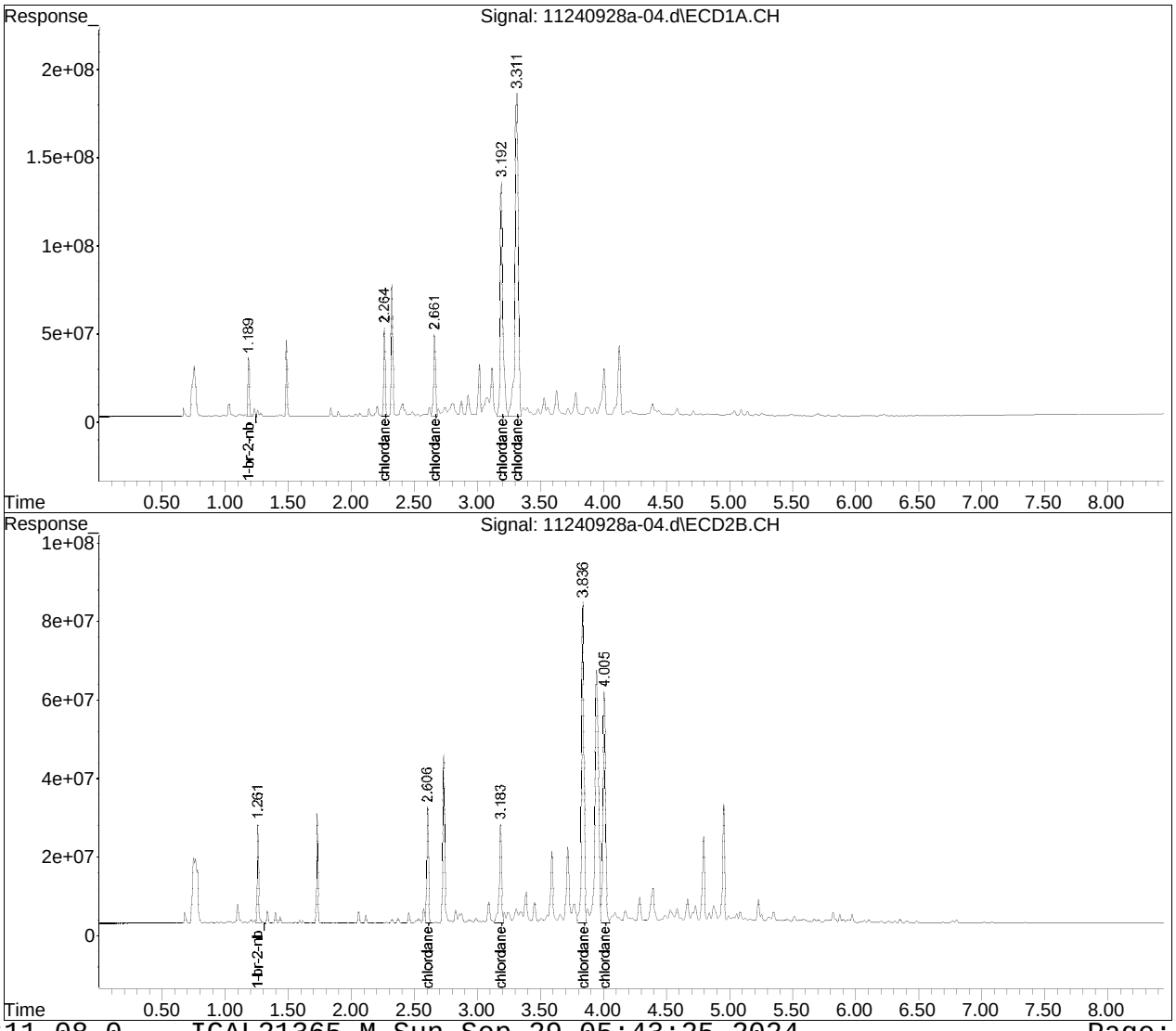
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2024 10:43
Operator : PEST11:jag
Sample : wg1977568-2,42,,chlor11816 (Sig #1); chlor11816 (Sig #2)
Misc : wg1977568,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:21:23 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:21:17 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

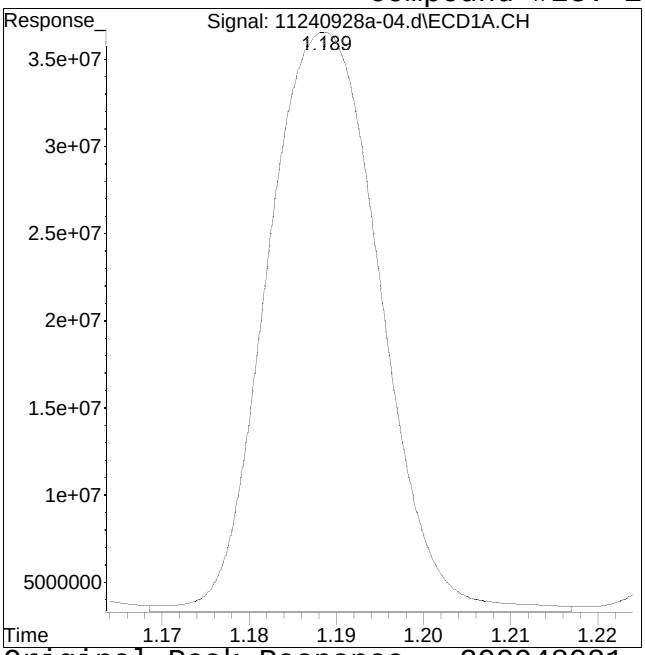
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

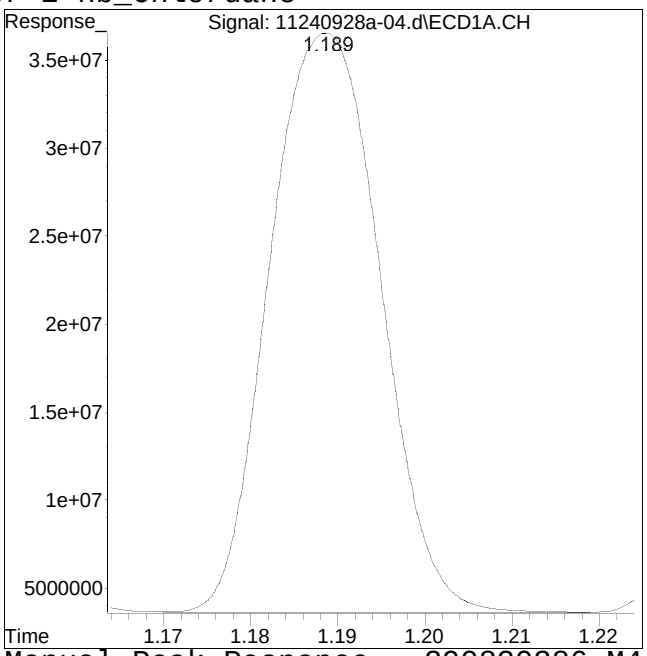


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-04.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:43 Instrument : Pest 11
Sample : wg1977568-2,42,,chlor11816Quant Date : 9/28/2024 12:21 pm

Compound #28: 1-br-2-nb_Chlordane



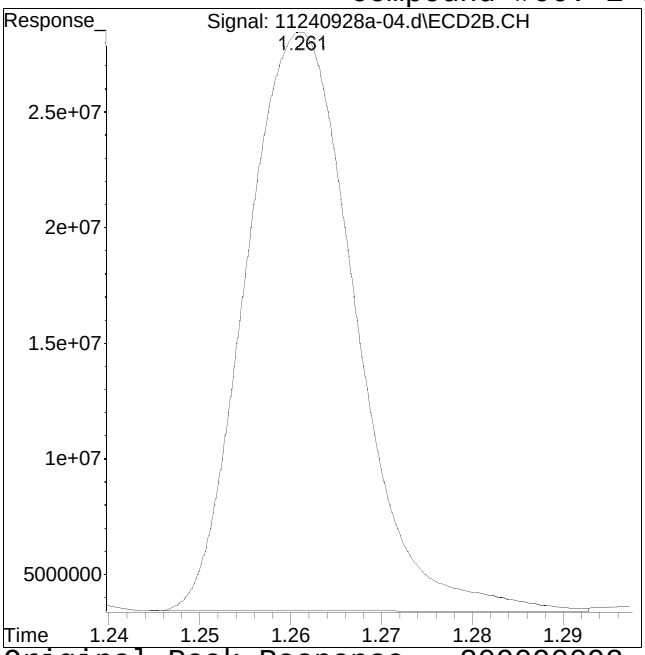


Original Peak Response = 299948981 Manual Peak Response = 290830386 M4
M4 = Poor automated baseline construction.

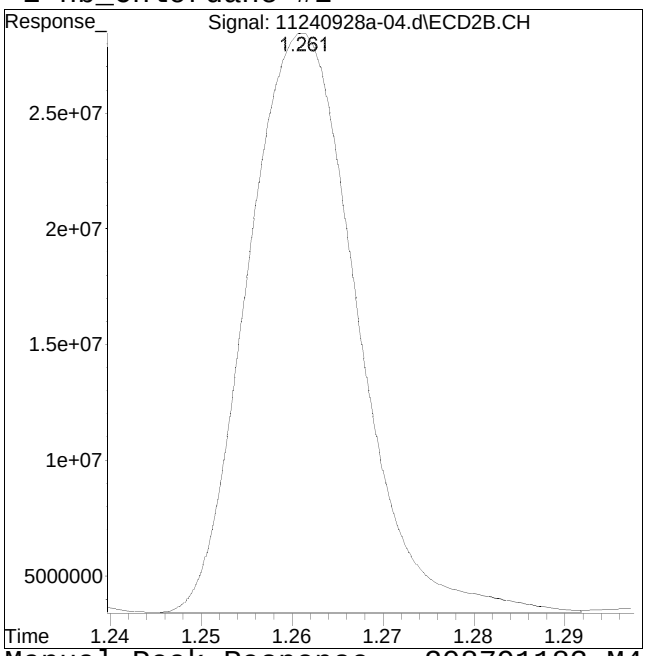
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-04.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:43 Instrument : Pest 11
Sample : wg1977568-2,42,,chlor11816Quant Date : 9/28/2024 12:21 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 209090092



Manual Peak Response = 208791183 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Sep 2024 10:55
Operator : PEST11:jag
Sample   : wg1977568-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1977568,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:25:08 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:25:00 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	134	0.00
34	l2	toxaphene-2		*2000.000	2644.407	-32.2#	171	0.00
35	l2	toxaphene-3		*2000.000	2761.178	-38.1#	179	0.00
36	l2	toxaphene-4		*2000.000	1959.885	2.0	129	0.00
37	l2	toxaphene-5		*2000.000	2351.538	-17.6	153	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	112	0.00
34	l2	toxaphene-2		*2000.000	2039.307	-2.0	113	0.00
35	l2	toxaphene-3		*2000.000	2129.238	-6.5	118	0.00
36	l2	toxaphene-4		*2000.000	1962.651	1.9	109	0.00
37	l2	toxaphene-5		*2000.000	2061.267	-3.1	115	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.19#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.51#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.71#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.81#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.00#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.05#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.17#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.32#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.55#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.67#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.76#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.07#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.19#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Sep 2024 10:55
Operator : PEST11:jag
Sample   : wg1977568-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1977568,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:25:08 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:25:00 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.32#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.42#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.45#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.70#
18	t	Endrin		1.153	0.000	100.0#	0#	-3.94#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.07#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.20#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.38#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.64#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-4.90#
24	t	Mirex		0.938	0.000	100.0#	0#	-4.95#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.05#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.28#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.11#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.19#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.26#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.66#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.19#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.31#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.26#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.70#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.00#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.09#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.36#
6	t	beta-BHC		* 50.000	0.000	100.0#	0	-2.42#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.68#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Sep 2024 10:55
Operator : PEST11:jag
Sample   : wg1977568-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1977568,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:25:08 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:25:00 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.73#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.03#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-2.93#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.27#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.62#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-3.84#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.00#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.22#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.07#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.38#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.70#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-4.84#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-4.91#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.13#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.22#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.71#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.83#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.45#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-5.87#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.75#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.26#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.61#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.18#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-3.84#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.00#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2024 10:55
Operator : PEST11:jag
Sample : wg1977568-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1977568,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:25:08 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:25:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards							
1)	i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	1.188	1.261	291.7E6	194.8E6	25.000M4	25.000
	System Monitoring Compounds							
2)	s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount		50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27)	s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount		50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds							
3)	t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2024 10:55
Operator : PEST11:jag
Sample : wg1977568-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1977568,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:25:08 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:25:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.190	4.869	1717.6E6	374.2E6	2644.407M3	2039.307
35) l2	toxaphene-3	4.323	4.896	1401.6E6	578.0E6	2761.178M3	2129.238
36) l2	toxaphene-4	4.568	5.228	1001.0E6	639.6E6	1959.885	1962.651
37) l2	toxaphene-5	4.955	5.644	1089.2E6	618.8E6	2351.538	2061.267
Sum	toxaphene-2			5209.3E6	2210.6E6	9717.008	8192.463
Average	toxaphene-2					2429.252	2048.116

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			5209.3E6	2210.6E6	9717.008	8192.463
Average	toxaphene-2					2429.252	2048.116

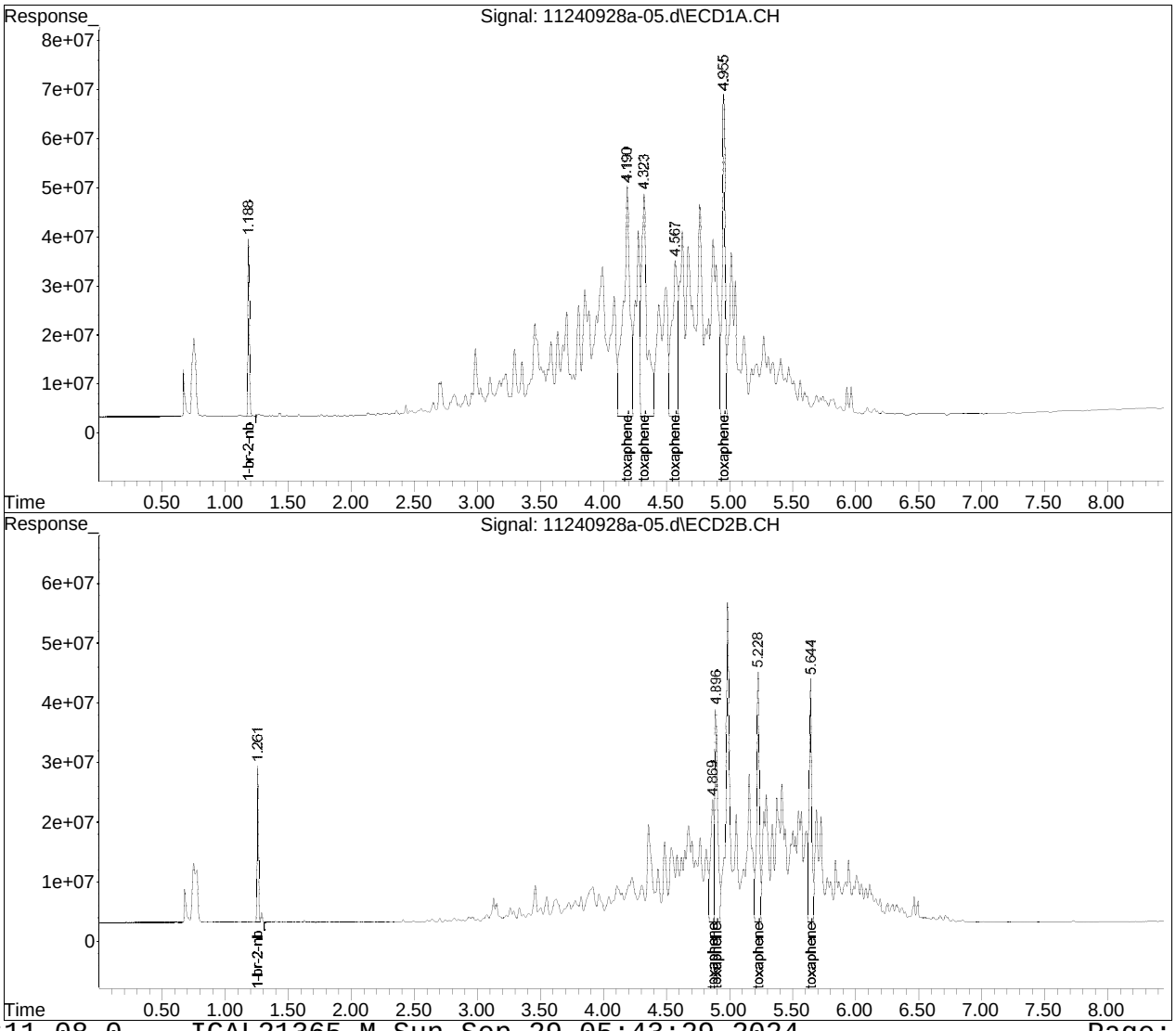
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2024 10:55
Operator : PEST11:jag
Sample : wg1977568-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1977568,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:25:08 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Sat Sep 28 12:25:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

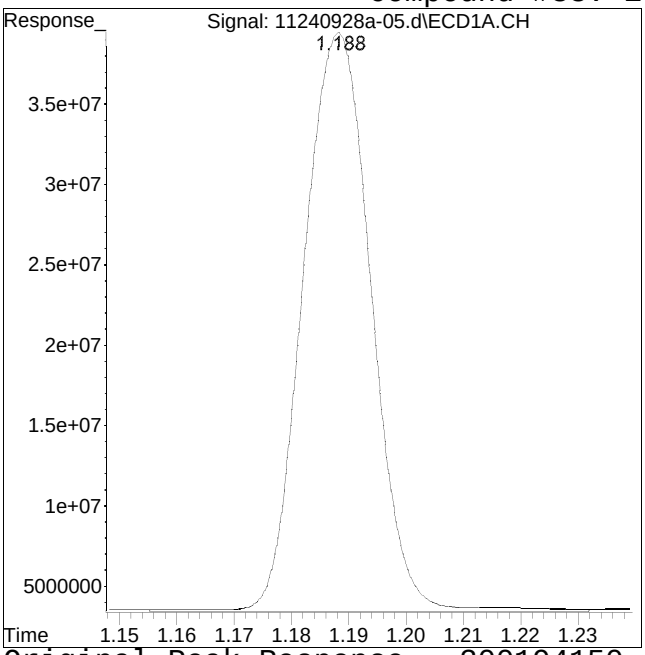
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



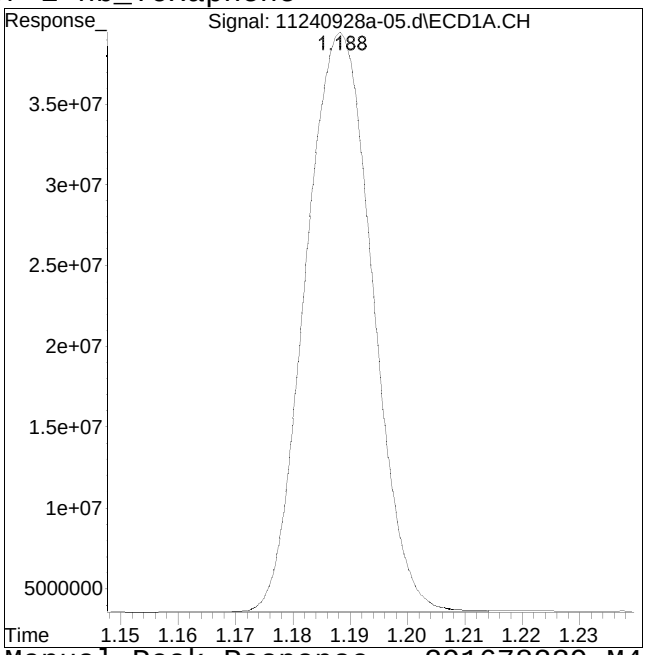
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-05.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:55 Instrument : Pest 11
Sample : wg1977568-3,42,,tox11668 Quant Date : 9/28/2024 12:25 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 300194150



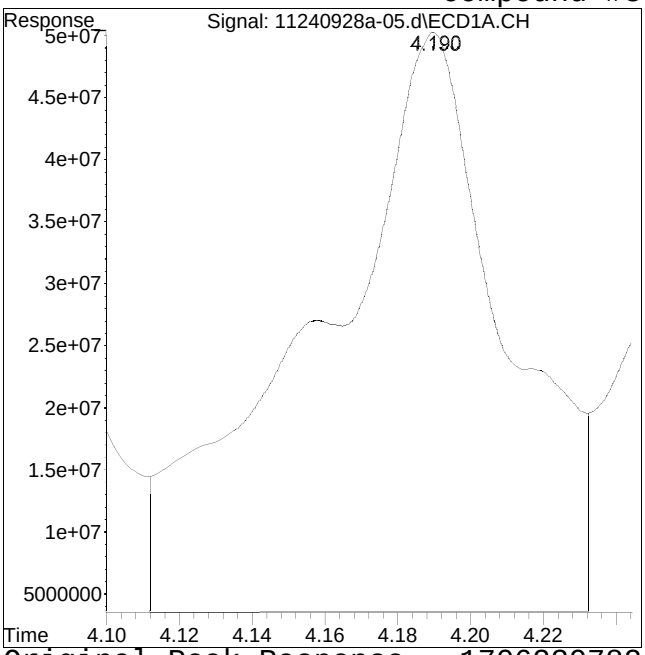
Manual Peak Response = 291678239 M4

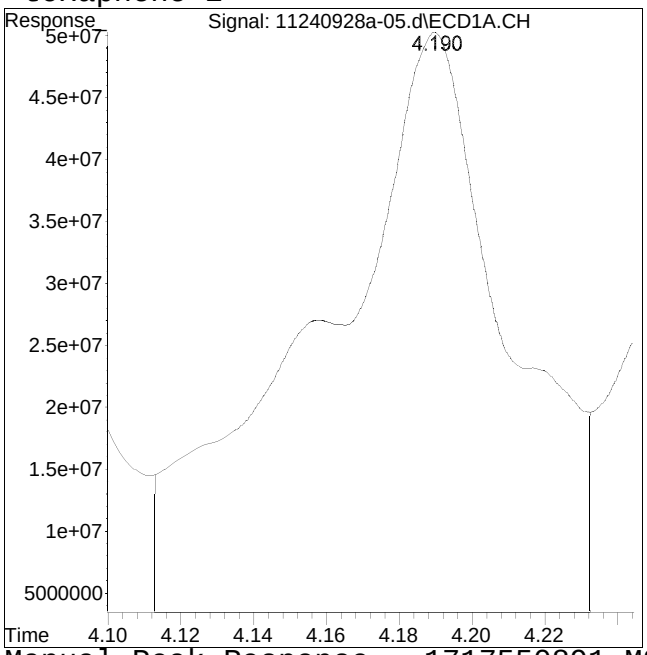
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-05.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:55 Instrument : Pest 11
Sample : wg1977568-3,42,,tox11668 Quant Date : 9/28/2024 12:25 pm

Compound #34: toxaphene-2



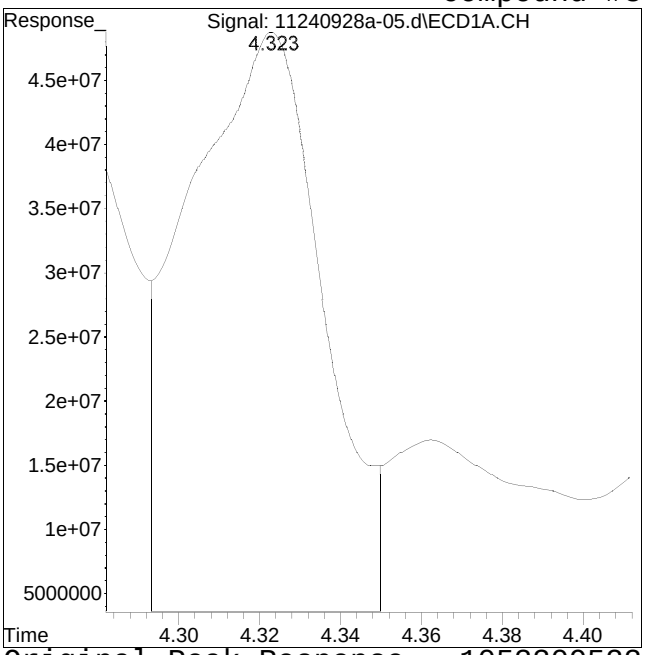


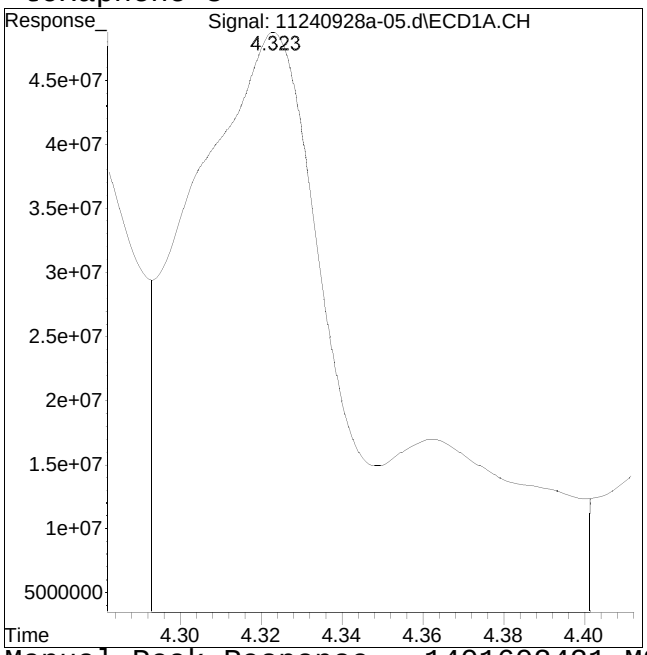
Original Peak Response = 1706239782 Manual Peak Response = 1717550891 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-05.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:55 Instrument : Pest 11
Sample : wg1977568-3,42,,tox11668 Quant Date : 9/28/2024 12:25 pm

Compound #35: toxaphene-3





Original Peak Response = 1053309523 Manual Peak Response = 1401602421 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Degradation Check Standard

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Analysis Date**	: 09/27/24 09:15
PEM Standard	: R1881161-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	508671.8598	800245.19783
Endrin	763478692.99115	502901396.84231
4,4'-DDD	2351113.60181	2119267.61318
4,4'-DDT	1476093868.7989	942254053.55412
Endrin Aldehyde	1857831.65809	1529807.4447
Endrin Ketone	6112182.97529	4593658.7255

Parameter	%Breakdown 1	%Breakdown 2
Endrin	1.03	1.20
DDT	0.193	0.309

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Analysis Date**	: 09/28/24 10:19
PEM Standard	: R1881445-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	1169003.60549	1546589.6777
Endrin	775081997.31669	493886701.57666
4,4'-DDD	2899517.10834	2570775.63741
4,4'-DDT	1275552910.1853	929672608.83871
Endrin Aldehyde	1015054.0178	1067865.35163
Endrin Ketone	3943483.88673	3310433.38629

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.636	0.879
DDT	0.318	0.441

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 9:15
Operator : PEST11:akm
Sample : pem11240927a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1977176,,ical21365
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:13:21 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.186	1.259	295.8E6	211.8E6	25.000M4	25.000
	System Monitoring Compounds						
	Target Compounds						
15) t D	4,4'-DDE	3.420	4.228	508672	800245	0.036M2	0.070M4
18) t	Endrin	3.948	4.701	763.5E6	502.9E6	55.981	44.082
19) t	4,4'-DDD	4.070	4.843	2351114	2119268	0.214M4	0.231M4
21) t	4,4'-DDT	4.387	5.129	1476.1E6	942.3E6	117.880M4	88.972
22) t D	Endrin Aldeh	4.647	5.222	1857832	1529807	0.177M4	N.D. M4
26) t	Endrin Keton	5.288	5.875	6112183	4593659	0.437M4	0.430M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 9:15
Operator : PEST11:akm
Sample : pem11240927a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1977176,,ical21365
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:13:21 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

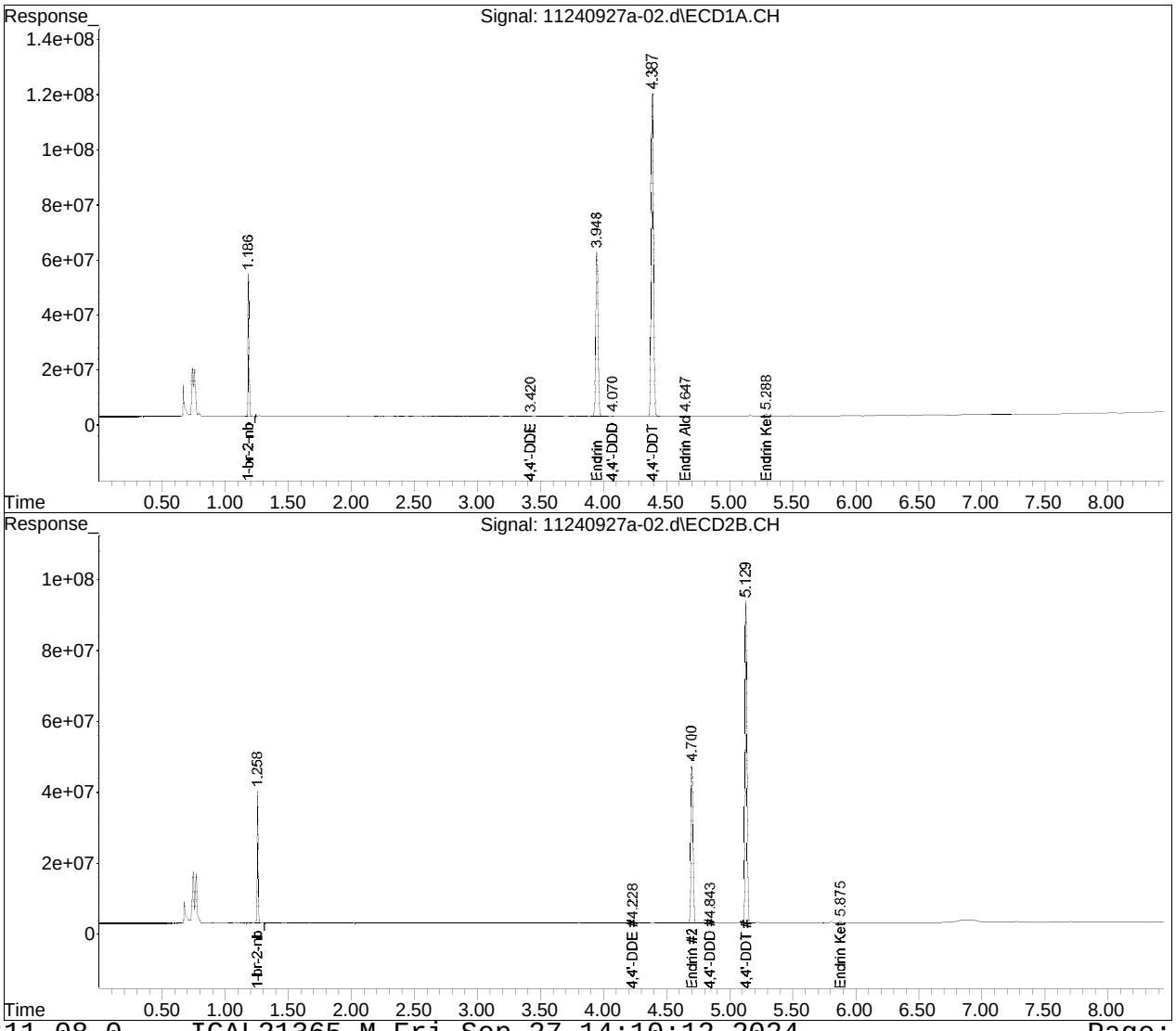
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 9:15
Operator : PEST11:akm
Sample : pem11240927a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1977176,,ical21365
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 10:13:21 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

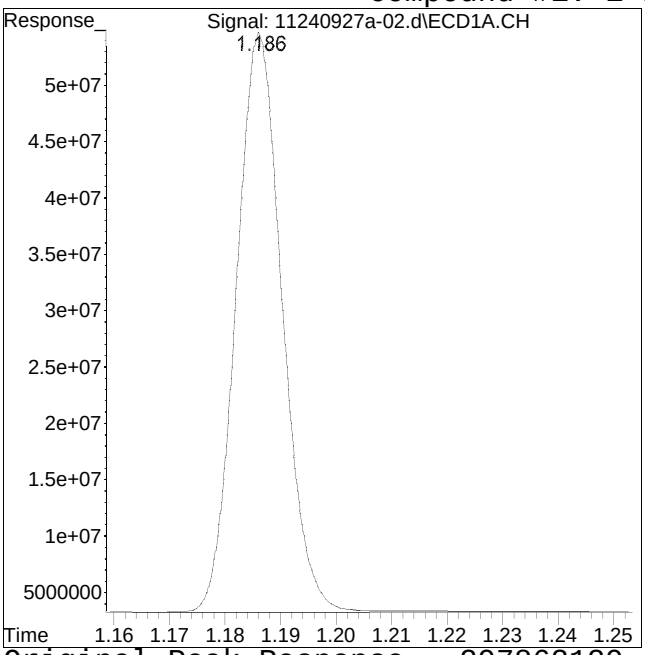
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

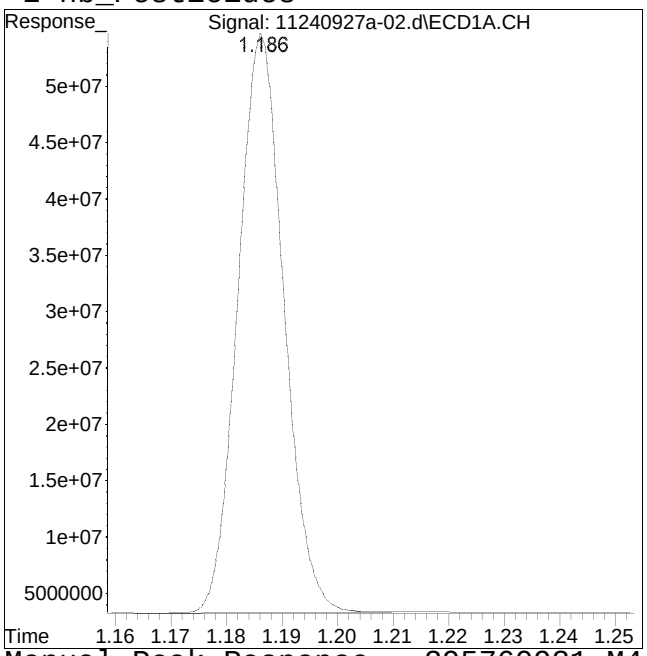


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-02.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:15 Instrument : Pest 11
Sample : pem11240927a-01,42,,deg115Quant Date : 9/27/2024 10:13 am

Compound #1: 1-br-2-nb_Pesticides



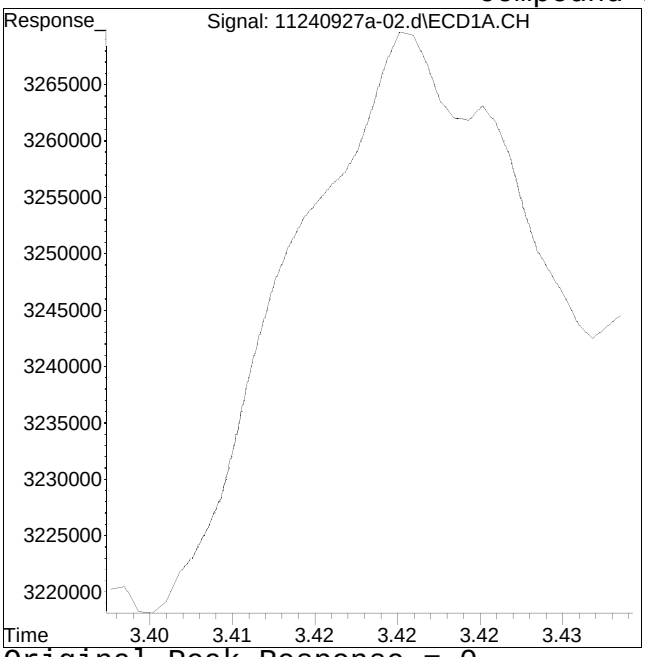


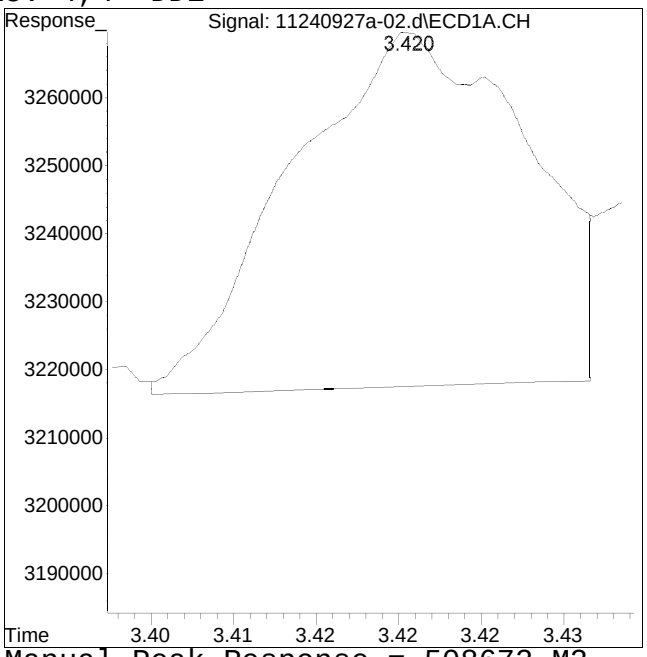
Original Peak Response = 297862129 Manual Peak Response = 295760931 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-02.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:15 Instrument : Pest 11
Sample : pem11240927a-01,42,,deg115Quant Date : 9/27/2024 10:13 am

Compound #15: 4,4'-DDE



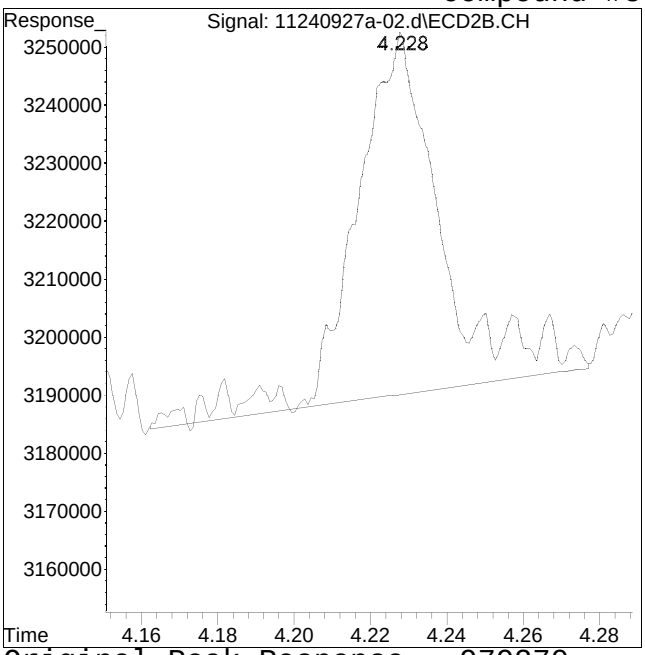


Original Peak Response = 0 Manual Peak Response = 508672 M2
M2 = Peak not found by automatic integration algorithm.

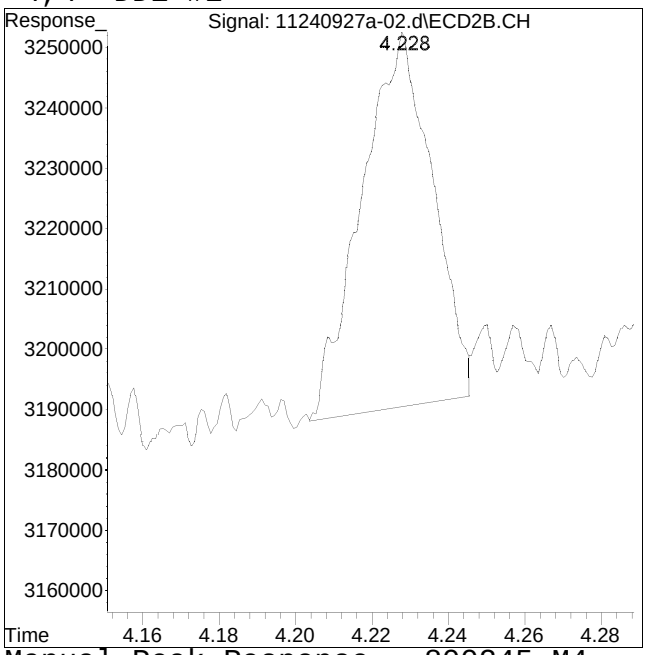
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-02.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:15 Instrument : Pest 11
Sample : pem11240927a-01,42,,deg115Quant Date : 9/27/2024 10:13 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 979270



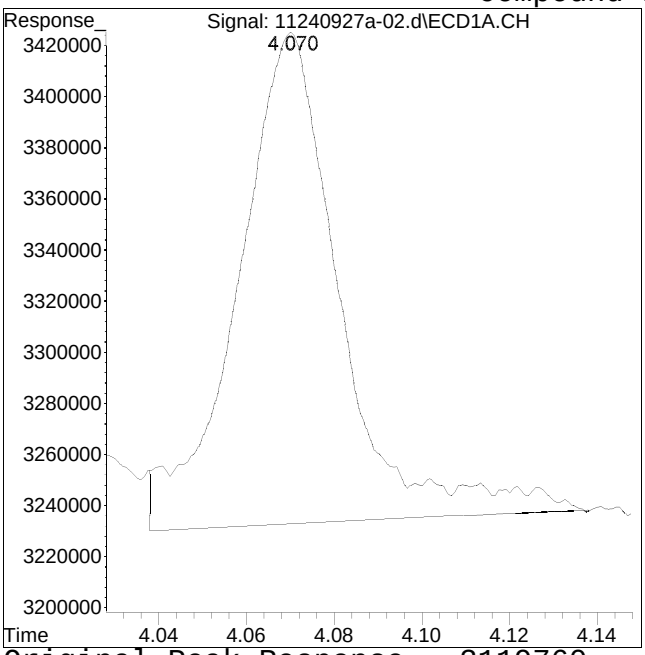
Manual Peak Response = 800245 M4

M4 = Poor automated baseline construction.

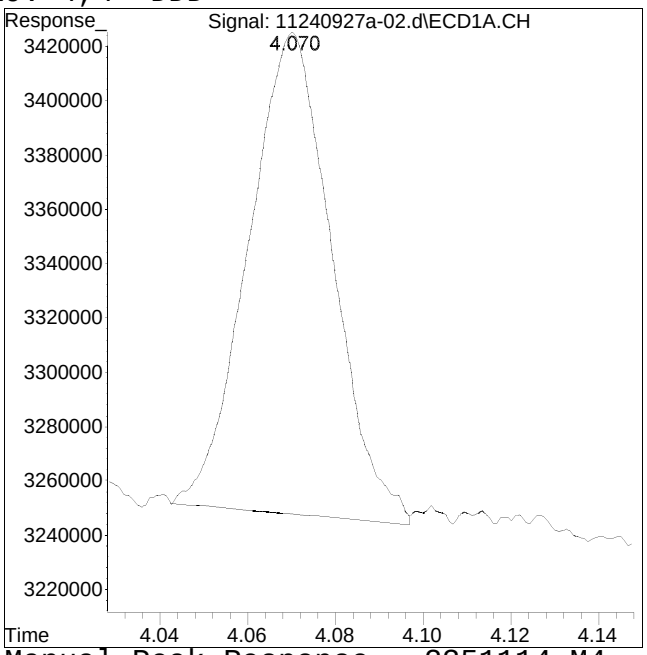
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-02.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:15 Instrument : Pest 11
Sample : pem11240927a-01,42,,deg115Quant Date : 9/27/2024 10:13 am

Compound #19: 4,4'-DDD



Original Peak Response = 3119760



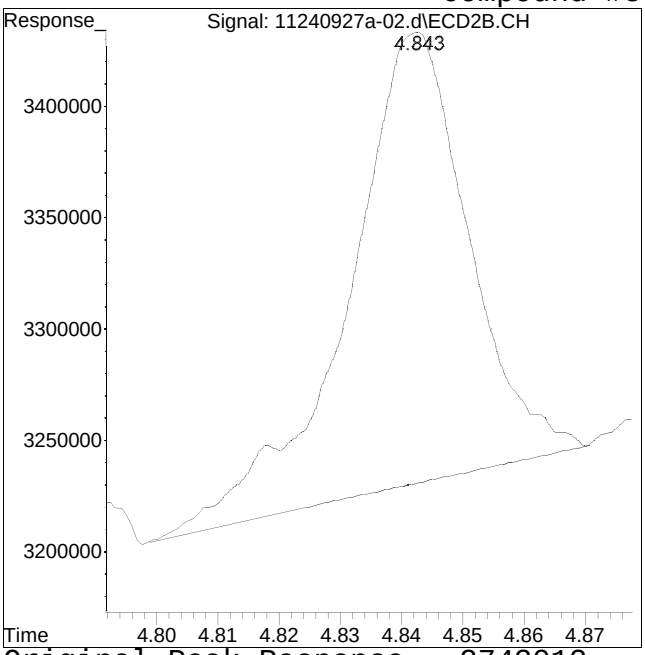
Manual Peak Response = 2351114 M4

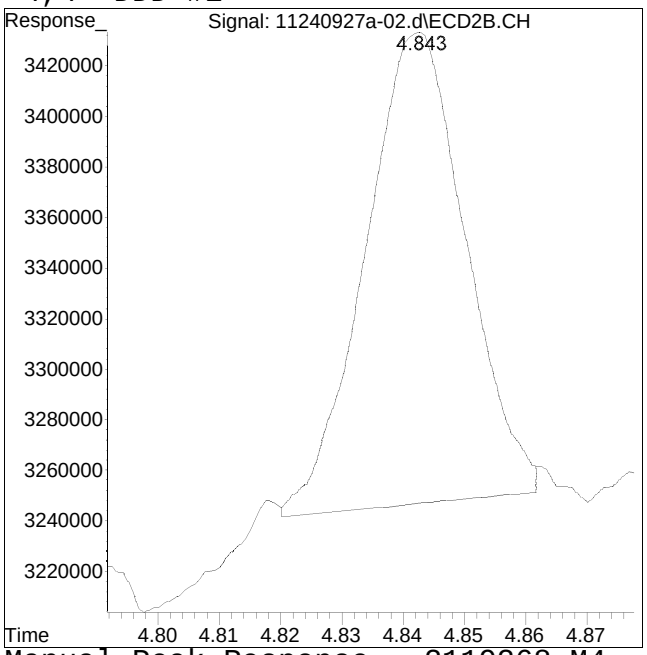
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-02.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:15 Instrument : Pest 11
Sample : pem11240927a-01,42,,deg115Quant Date : 9/27/2024 10:13 am

Compound #57: 4,4'-DDD #2



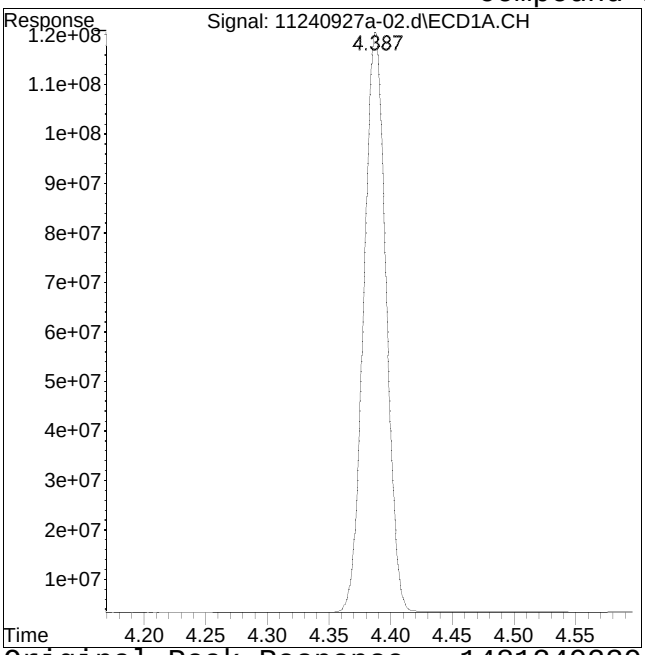


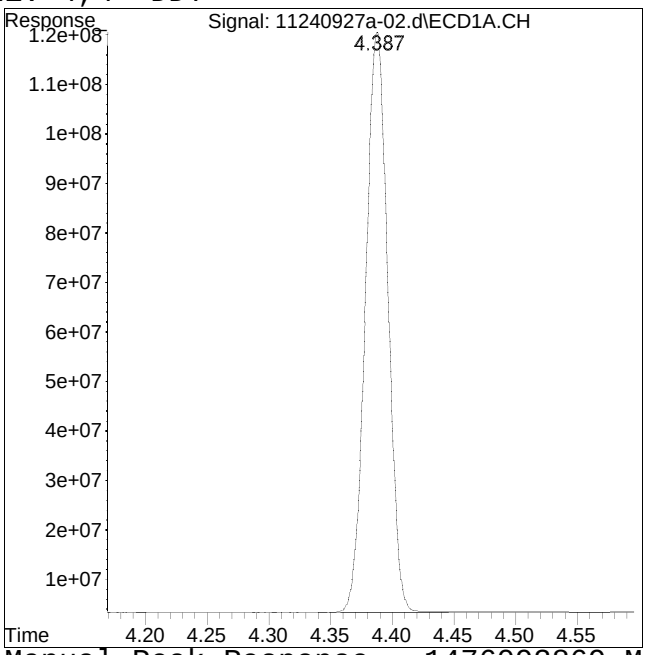
Original Peak Response = 2743012 Manual Peak Response = 2119268 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-02.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:15 Instrument : Pest 11
Sample : pem11240927a-01,42,,deg115Quant Date : 9/27/2024 10:13 am

Compound #21: 4,4'-DDT



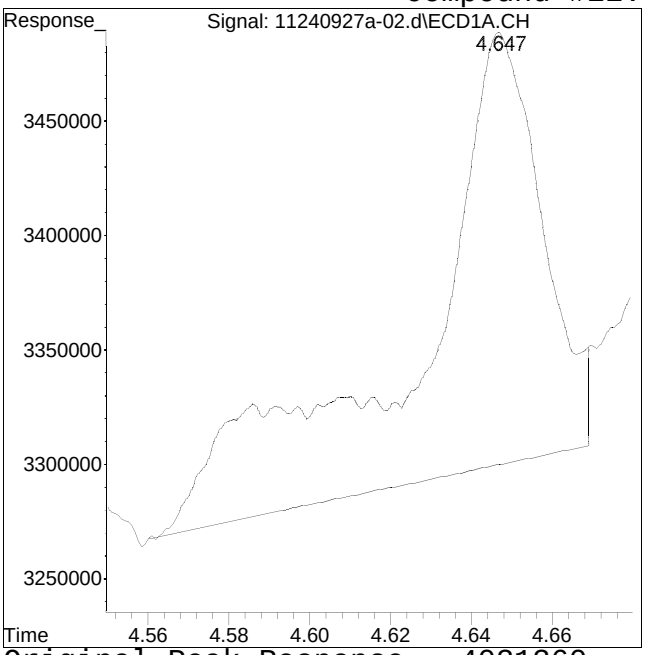


Original Peak Response = 1481249239 Manual Peak Response = 1476093869 M4
M4 = Poor automated baseline construction.

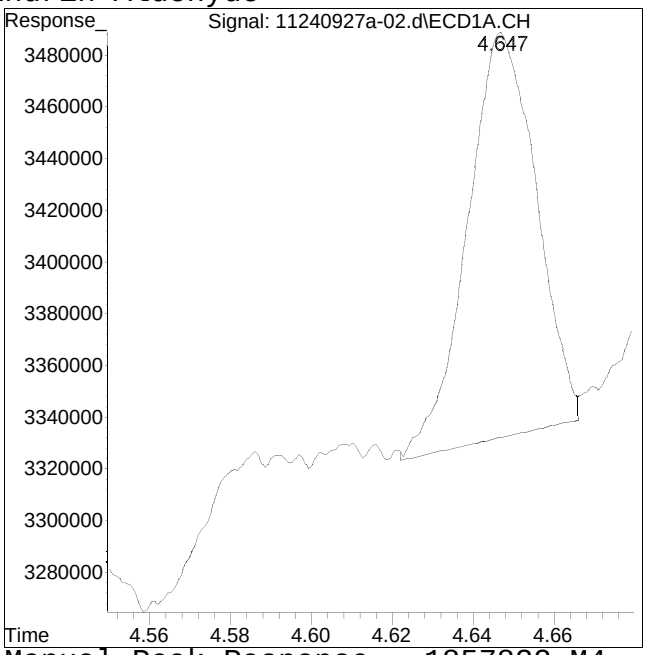
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-02.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:15 Instrument : Pest 11
Sample : pem11240927a-01,42,,deg115Quant Date : 9/27/2024 10:13 am

Compound #22: Endrin Aldehyde



Original Peak Response = 4031360



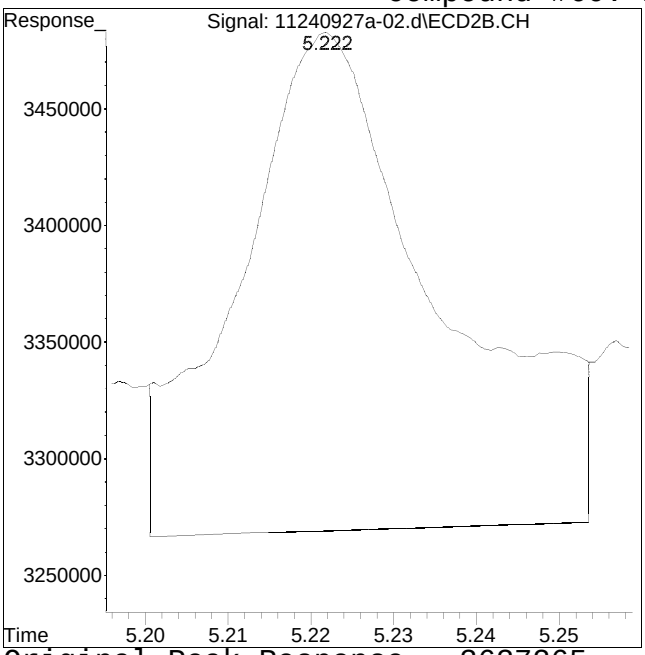
Manual Peak Response = 1857832 M4

M4 = Poor automated baseline construction.

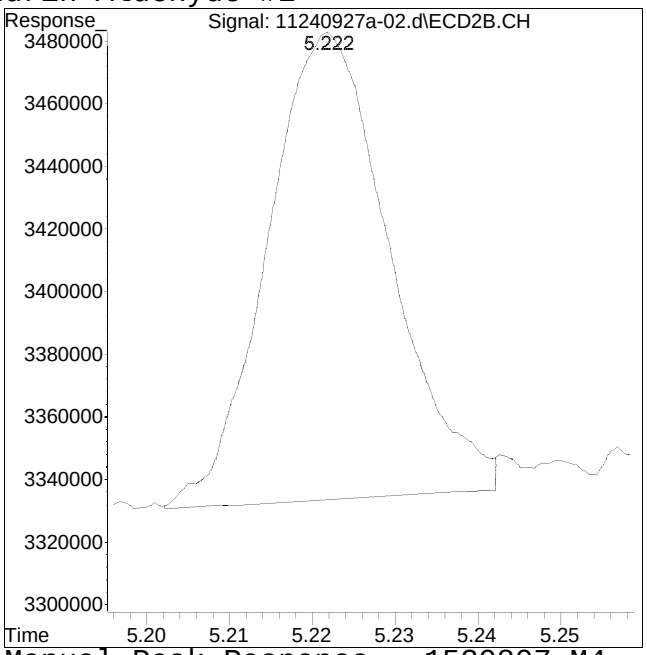
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-02.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:15 Instrument : Pest 11
Sample : pem11240927a-01,42,,deg115Quant Date : 9/27/2024 10:13 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 3637265



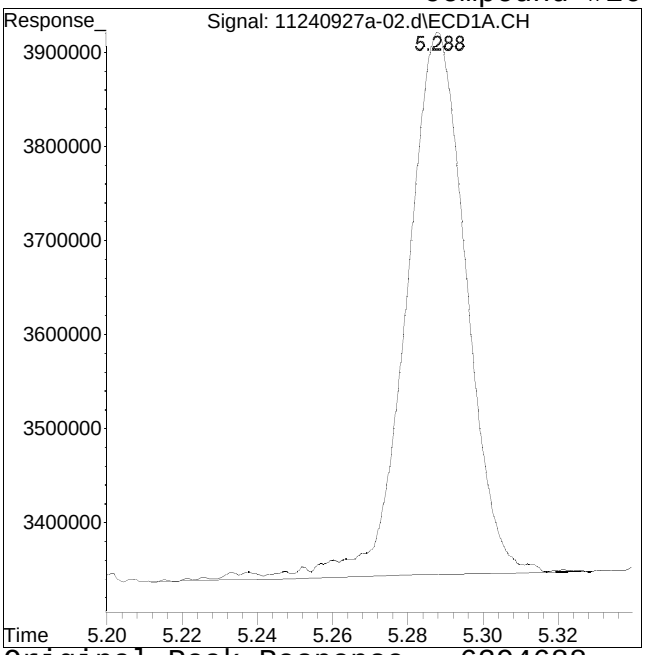
Manual Peak Response = 1529807 M4

M4 = Poor automated baseline construction.

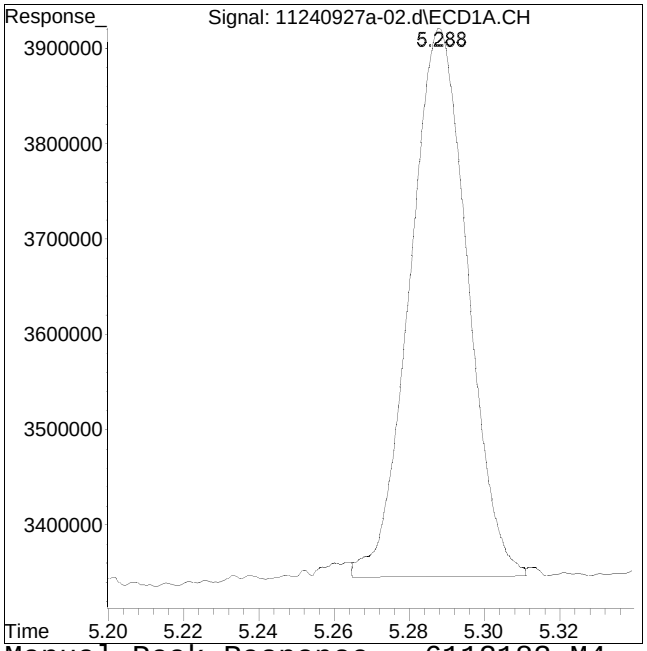
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-02.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:15 Instrument : Pest 11
Sample : pem11240927a-01,42,,deg115Quant Date : 9/27/2024 10:13 am

Compound #26: Endrin Ketone



Original Peak Response = 6394688



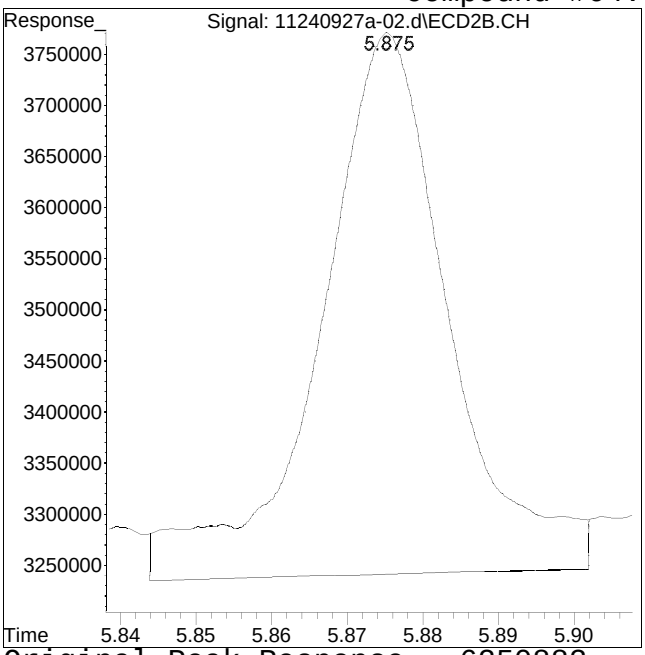
Manual Peak Response = 6112183 M4

M4 = Poor automated baseline construction.

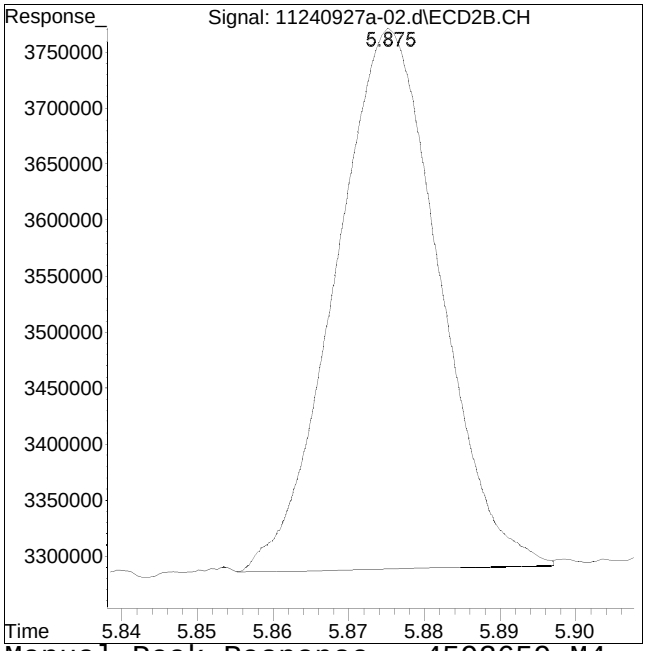
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-02.d Operator : PEST11:akm
Date Inj'd : 9/27/2024 9:15 Instrument : Pest 11
Sample : pem11240927a-01,42,,deg115Quant Date : 9/27/2024 10:13 am

Compound #64: Endrin Ketone #2



Original Peak Response = 6250883



Manual Peak Response = 4593659 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2024 10:19
Operator : PEST11:jag
Sample : pem11240928a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1977568,,ical21365
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:11:19 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.188	1.260	305.9E6	224.1E6	25.000M4	25.000
	System Monitoring Compounds						
	Target Compounds						
15) t D	4,4'-DDE	3.420	4.222	1169004	1546590	0.080M4	0.128M4
18) t	Endrin	3.946	4.697	775.1E6	493.9E6	54.946M4	40.909M4
19) t	4,4'-DDD	4.067	4.838	2899517	2570776	0.256M4	0.265M4
21) t	4,4'-DDT	4.385	5.126	1275.6E6	929.7E6	98.484M4	82.951M4
22) t D	Endrin Aldeh	4.647	5.218	1015054	1067865	0.094M4	N.D. M2
26) t	Endrin Keton	5.286	5.872	3943484	3310433	0.272M4	0.293M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2024 10:19
Operator : PEST11:jag
Sample : pem11240928a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1977568,,ical21365
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:11:19 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

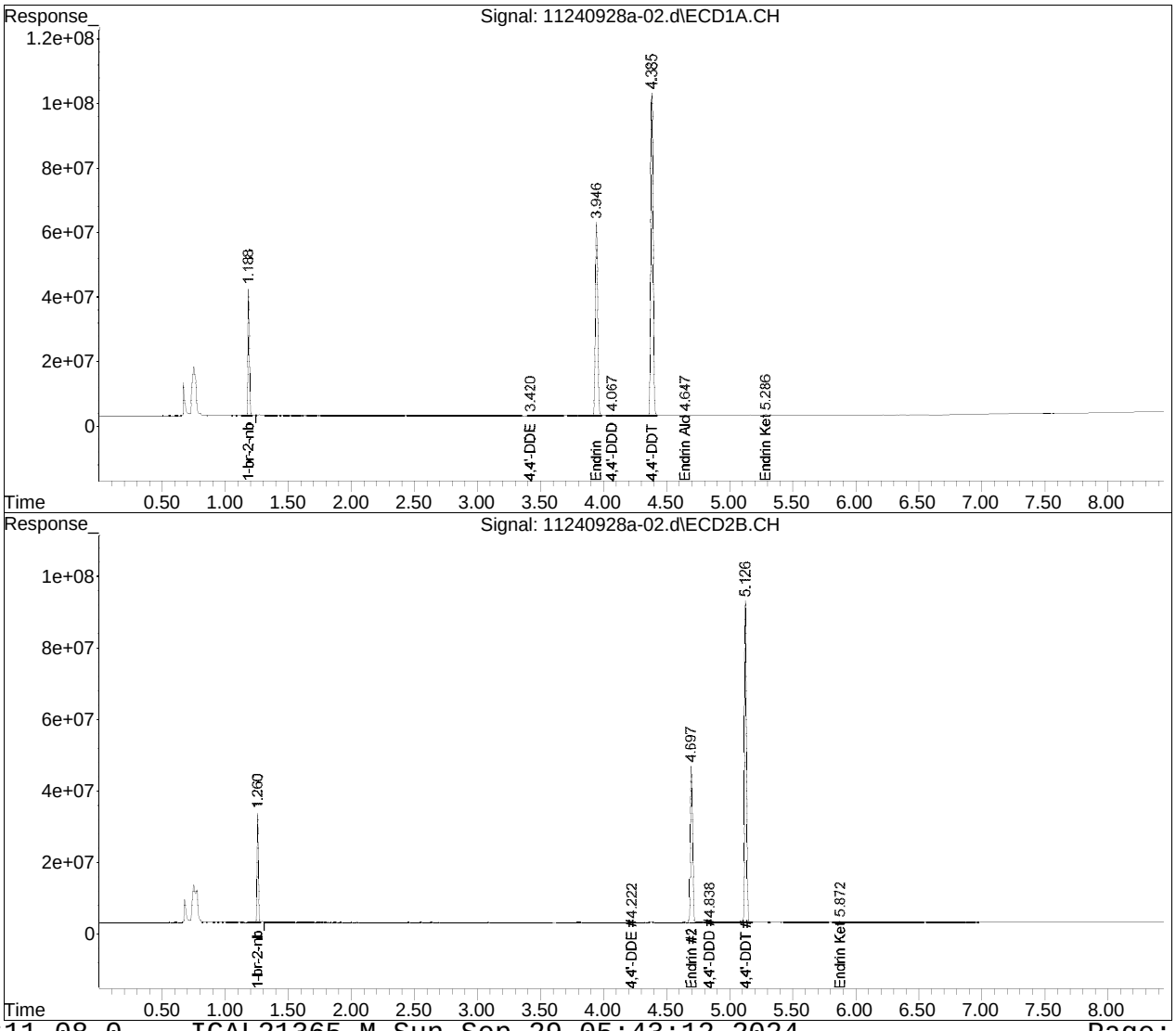
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest11\2024\240928A\
Data File : 11240928a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2024 10:19
Operator : PEST11:jag
Sample : pem11240928a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1977568,,ical21365
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 12:11:19 2024
Quant Method : I:\PEST\Pest11\2024\240928A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

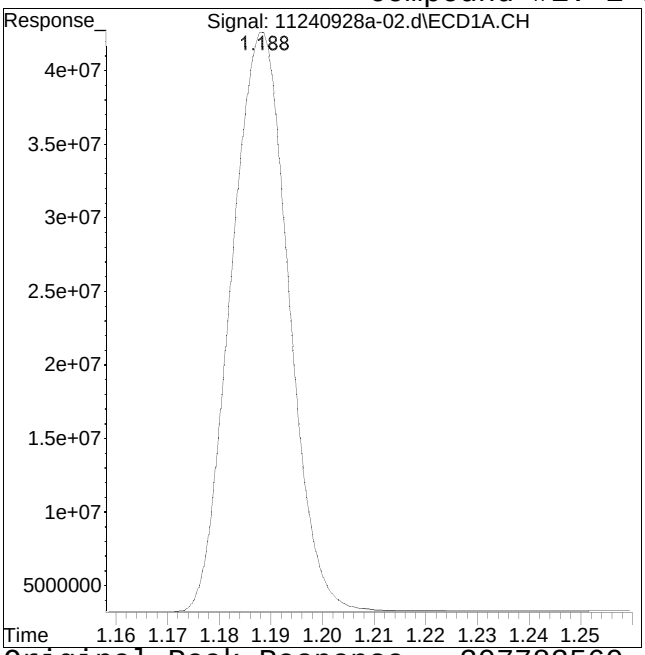
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



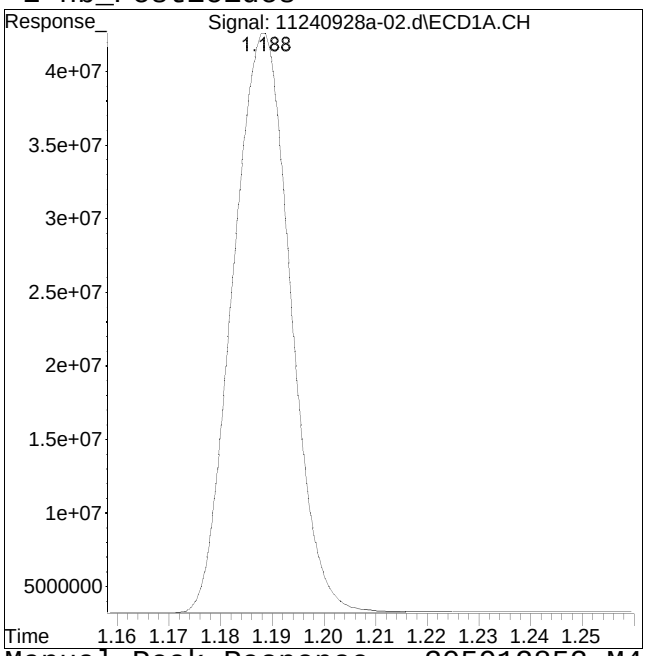
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-02.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:19 Instrument : Pest 11
Sample : pem11240928a-01,42,,deg115Quant Date : 9/28/2024 12:11 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 307783560



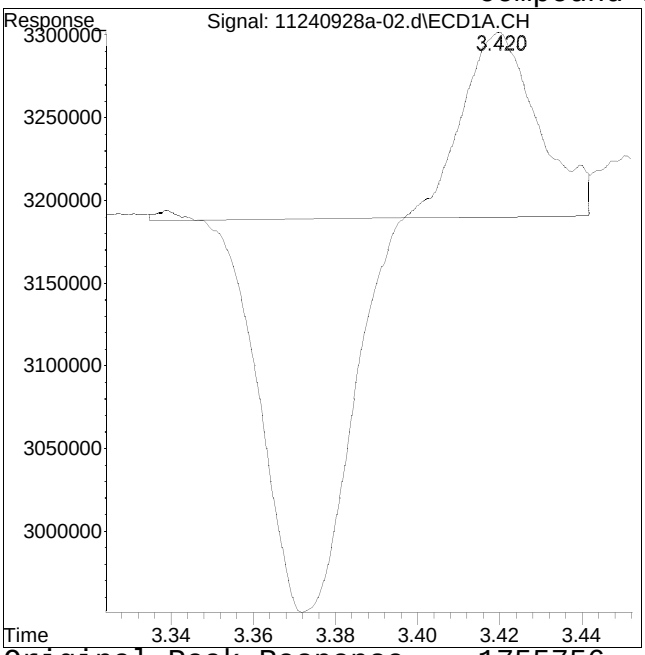
Manual Peak Response = 305912852 M4

M4 = Poor automated baseline construction.

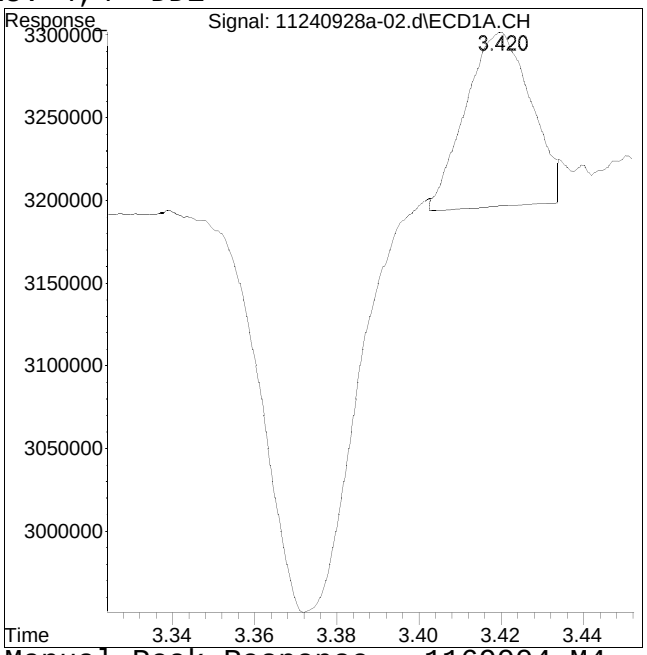
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-02.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:19 Instrument : Pest 11
Sample : pem11240928a-01,42,,deg115Quant Date : 9/28/2024 12:11 pm

Compound #15: 4,4'-DDE



Original Peak Response = -1755756



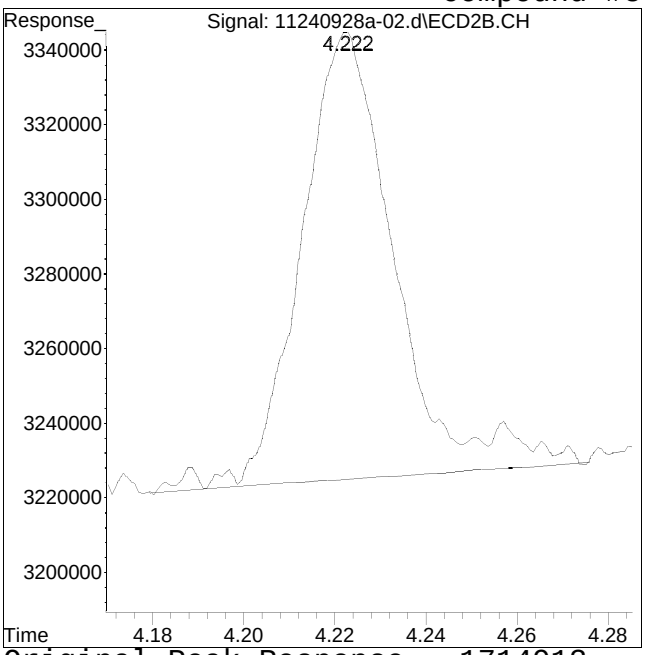
Manual Peak Response = 1169004 M4

M4 = Poor automated baseline construction.

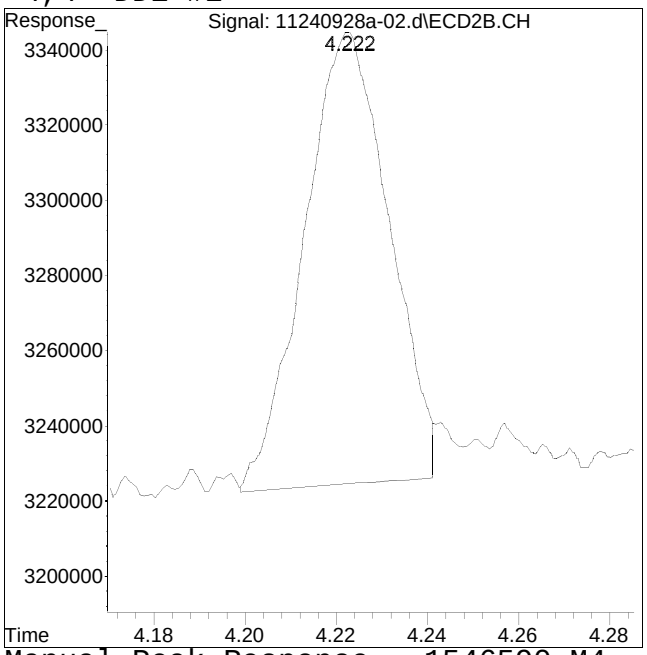
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-02.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:19 Instrument : Pest 11
Sample : pem11240928a-01,42,,deg115Quant Date : 9/28/2024 12:11 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 1714913



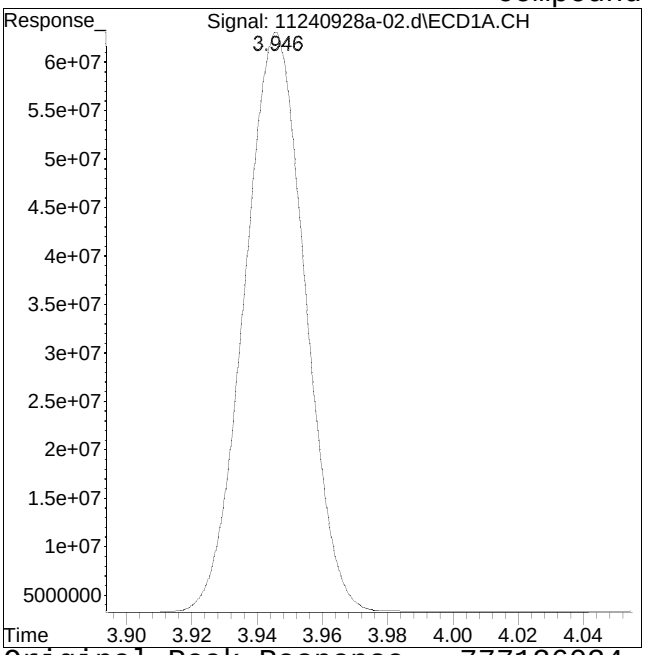
Manual Peak Response = 1546590 M4

M4 = Poor automated baseline construction.

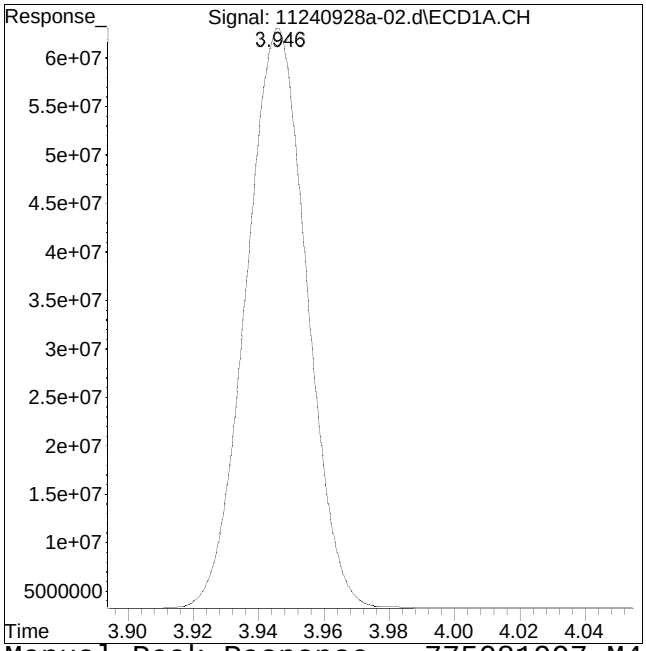
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-02.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:19 Instrument : Pest 11
Sample : pem11240928a-01,42,,deg115Quant Date : 9/28/2024 12:11 pm

Compound #18: Endrin



Original Peak Response = 777136034



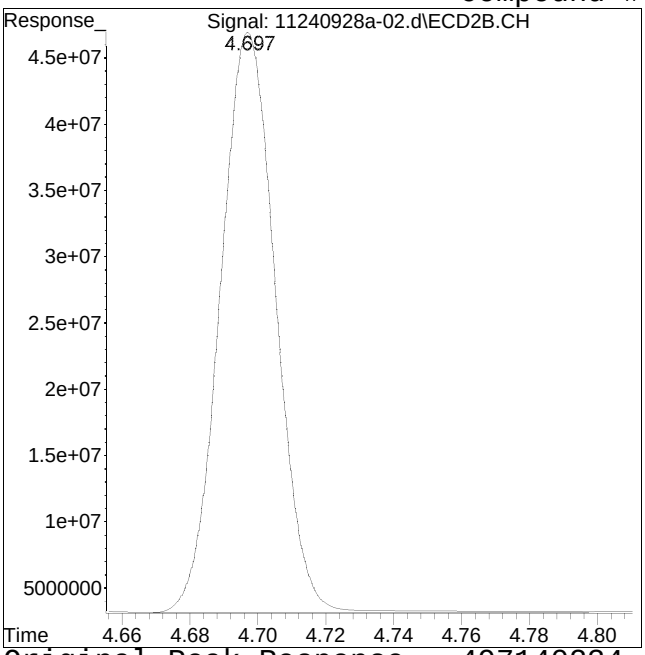
Manual Peak Response = 775081997 M4

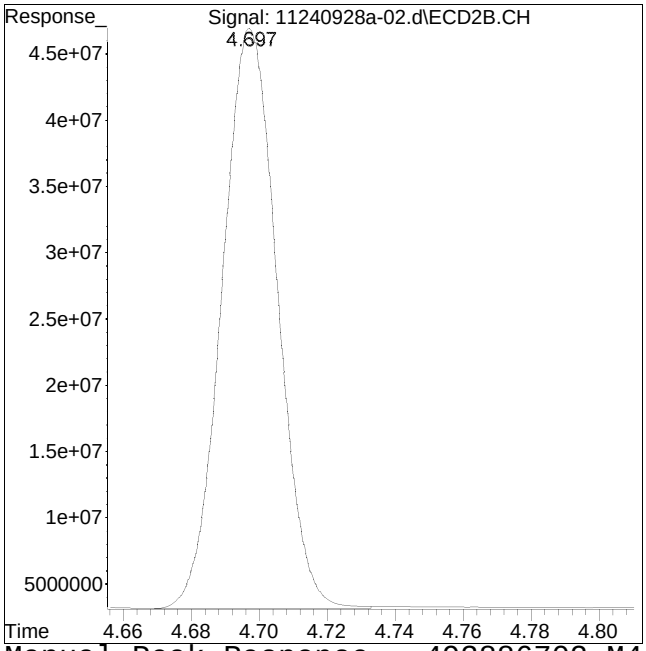
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-02.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:19 Instrument : Pest 11
Sample : pem11240928a-01,42,,deg115Quant Date : 9/28/2024 12:11 pm

Compound #56: Endrin #2



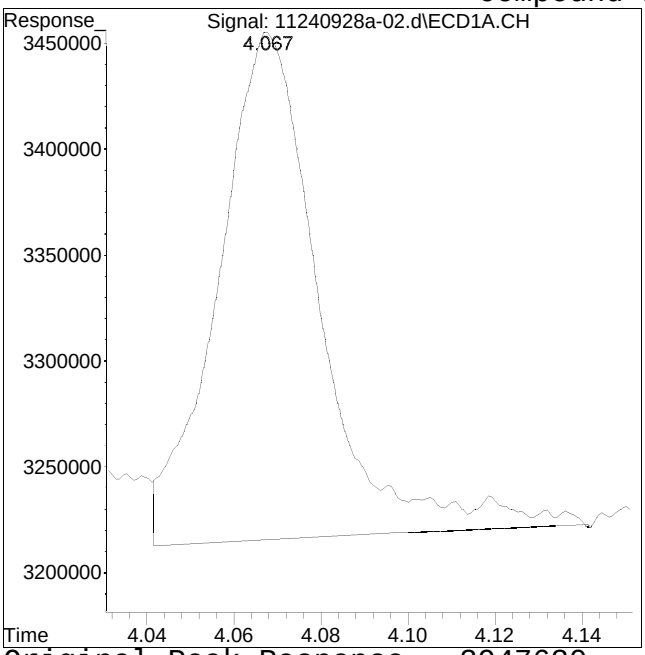


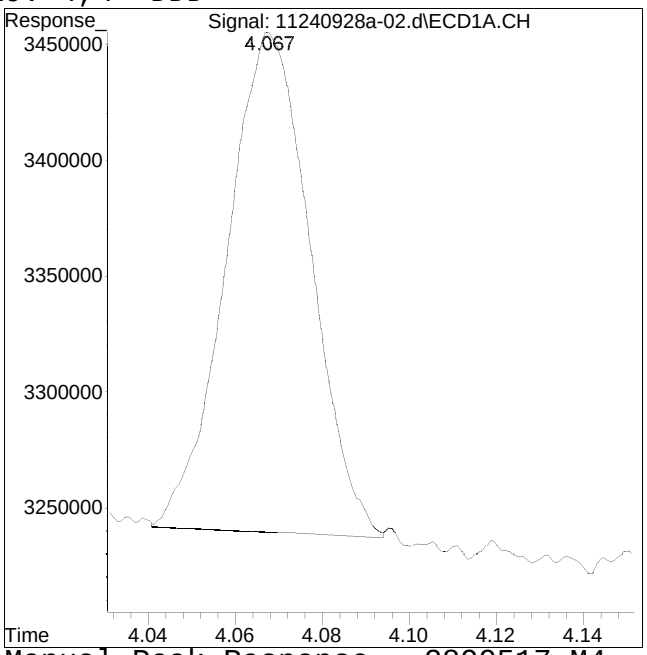
Original Peak Response = 497140234 Manual Peak Response = 493886702 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-02.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:19 Instrument : Pest 11
Sample : pem11240928a-01,42,,deg115Quant Date : 9/28/2024 12:11 pm

Compound #19: 4,4'-DDD



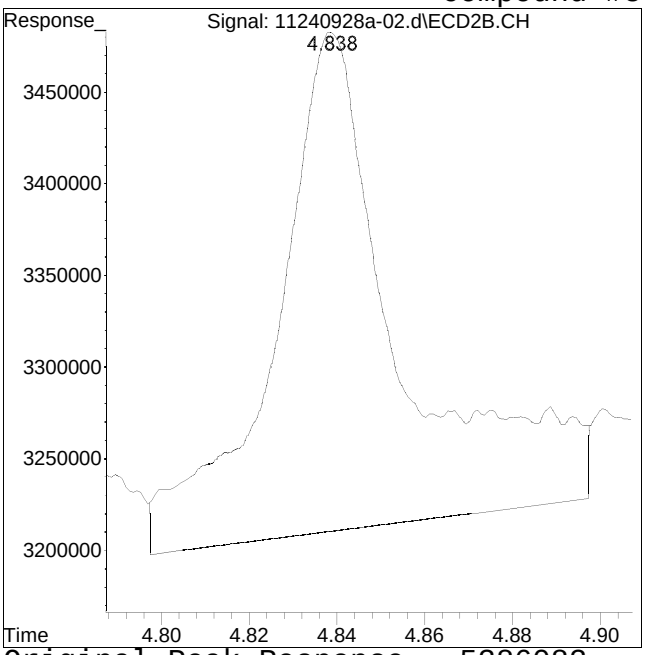


Original Peak Response = 3947630 Manual Peak Response = 2899517 M4
M4 = Poor automated baseline construction.

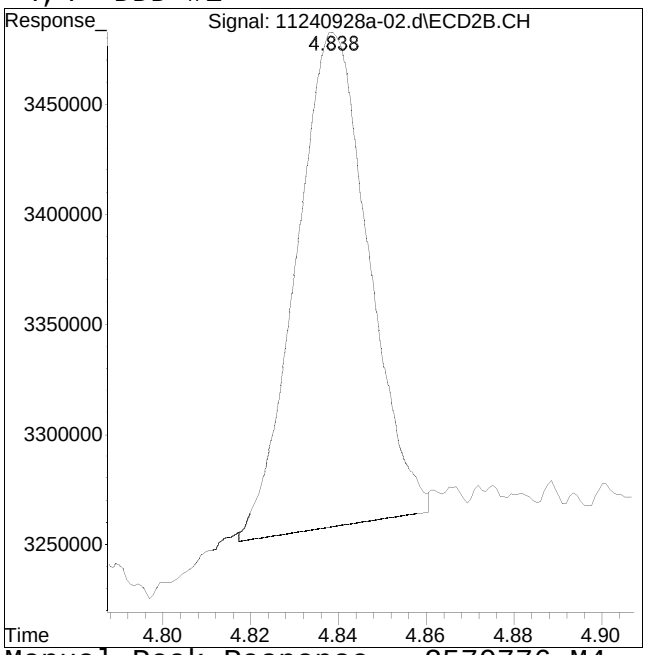
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-02.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:19 Instrument : Pest 11
Sample : pem11240928a-01,42,,deg115Quant Date : 9/28/2024 12:11 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 5386083



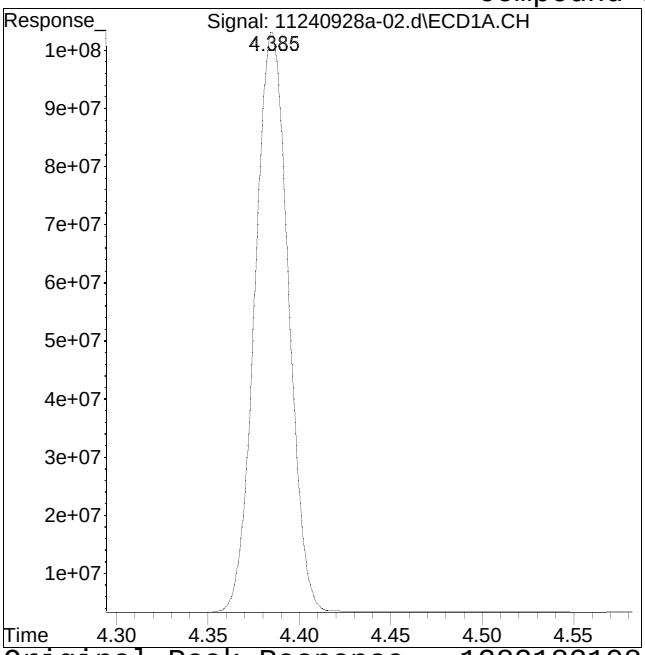
Manual Peak Response = 2570776 M4

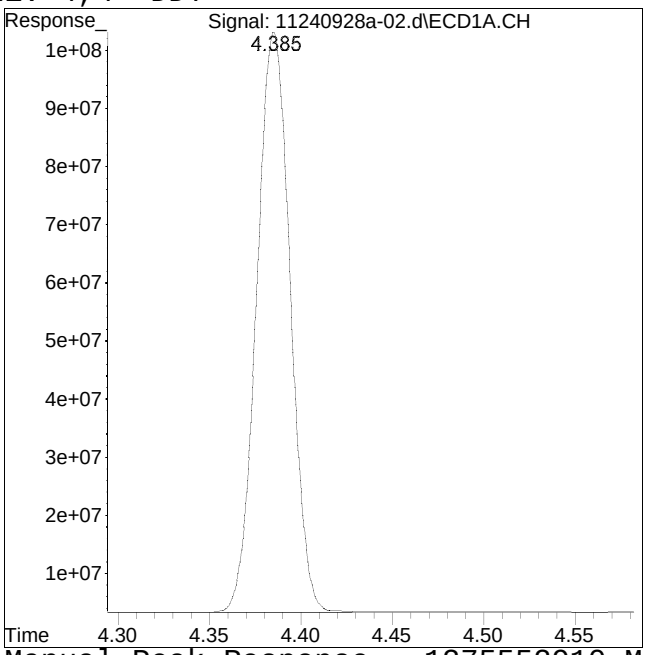
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-02.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:19 Instrument : Pest 11
Sample : pem11240928a-01,42,,deg115Quant Date : 9/28/2024 12:11 pm

Compound #21: 4,4'-DDT



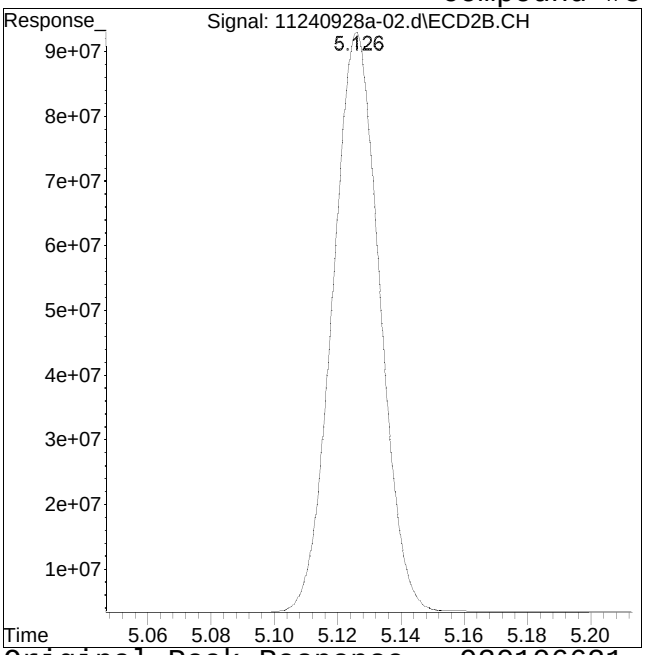


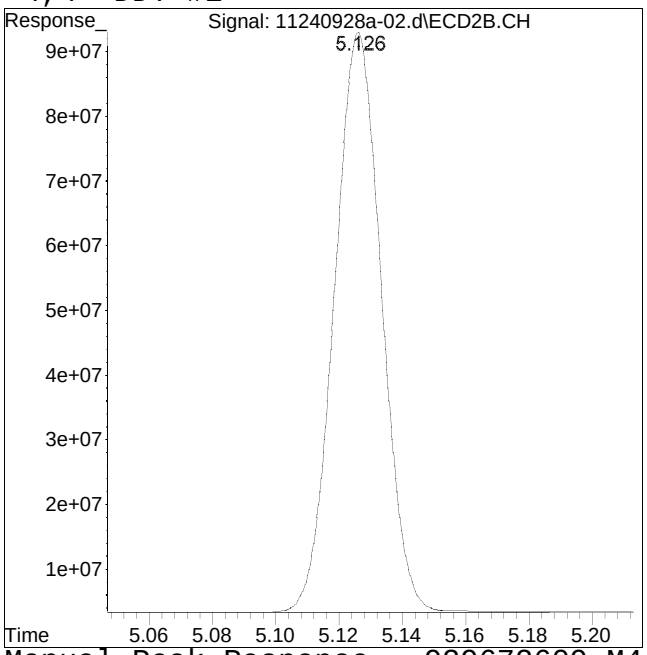
Original Peak Response = 1282183108 Manual Peak Response = 1275552910 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-02.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:19 Instrument : Pest 11
Sample : pem11240928a-01,42,,deg115Quant Date : 9/28/2024 12:11 pm

Compound #59: 4,4'-DDT #2



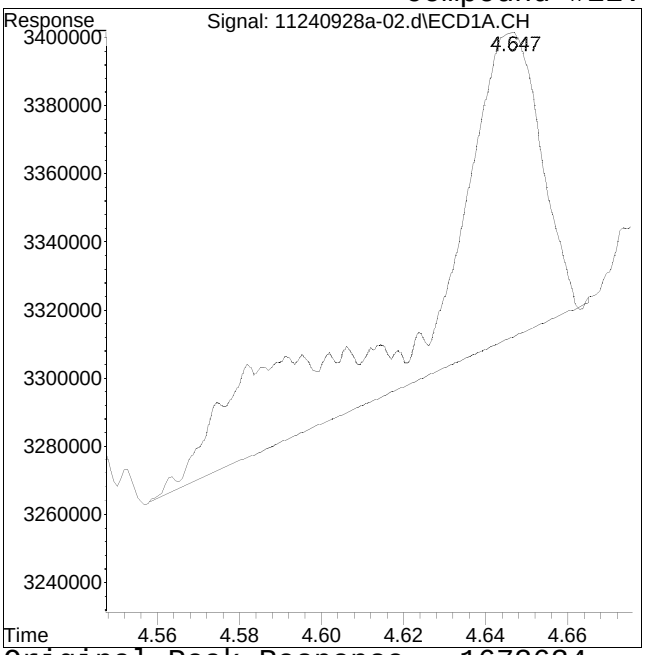


Original Peak Response = 930106621 Manual Peak Response = 929672609 M4
M4 = Poor automated baseline construction.

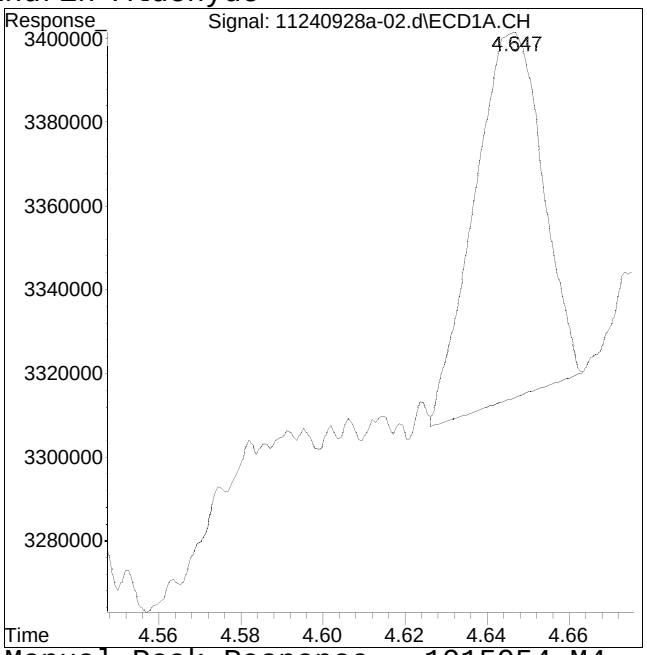
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-02.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:19 Instrument : Pest 11
Sample : pem11240928a-01,42,,deg115Quant Date : 9/28/2024 12:11 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 1673634



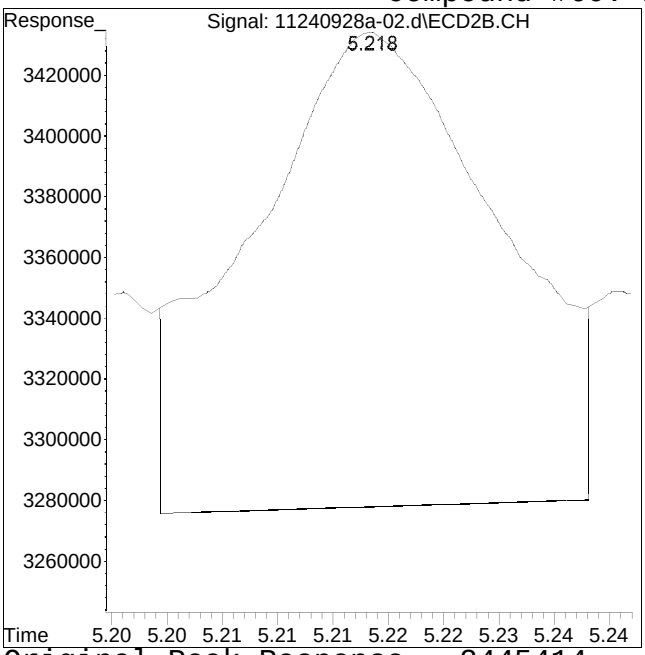
Manual Peak Response = 1015054 M4

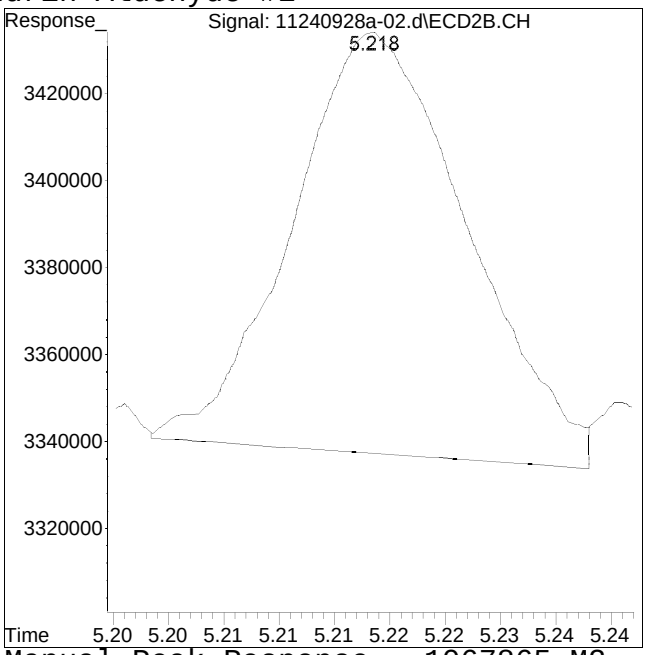
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-02.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:19 Instrument : Pest 11
Sample : pem11240928a-01,42,,deg115Quant Date : 9/28/2024 12:11 pm

Compound #60: Endrin Aldehyde #2



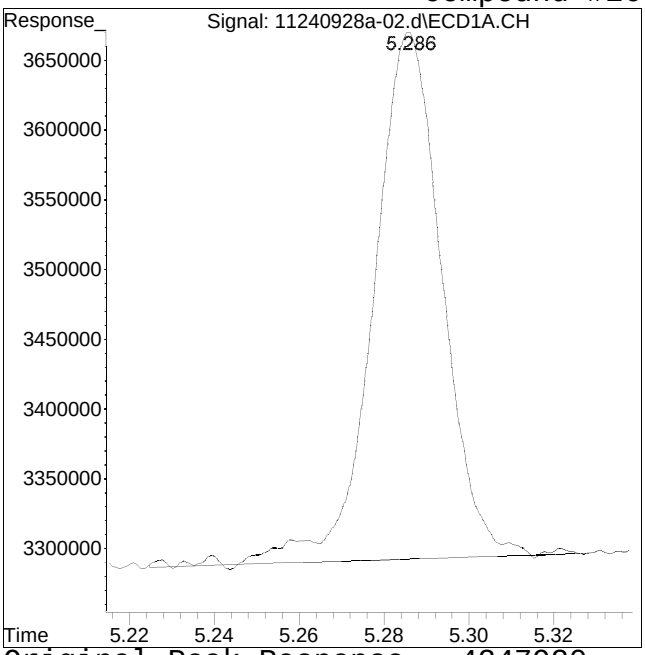


Original Peak Response = 2445414 Manual Peak Response = 1067865 M2
M2 = Peak not found by automatic integration algorithm.

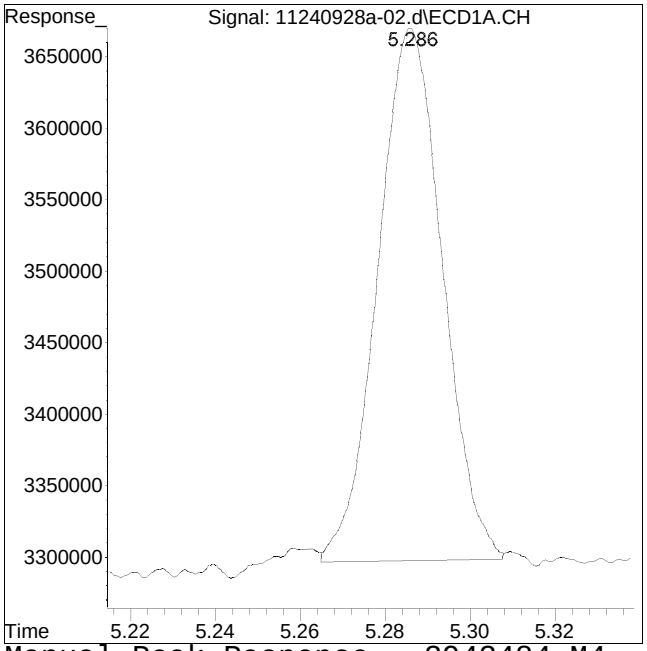
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-02.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:19 Instrument : Pest 11
Sample : pem11240928a-01,42,,deg115Quant Date : 9/28/2024 12:11 pm

Compound #26: Endrin Ketone



Original Peak Response = 4247920



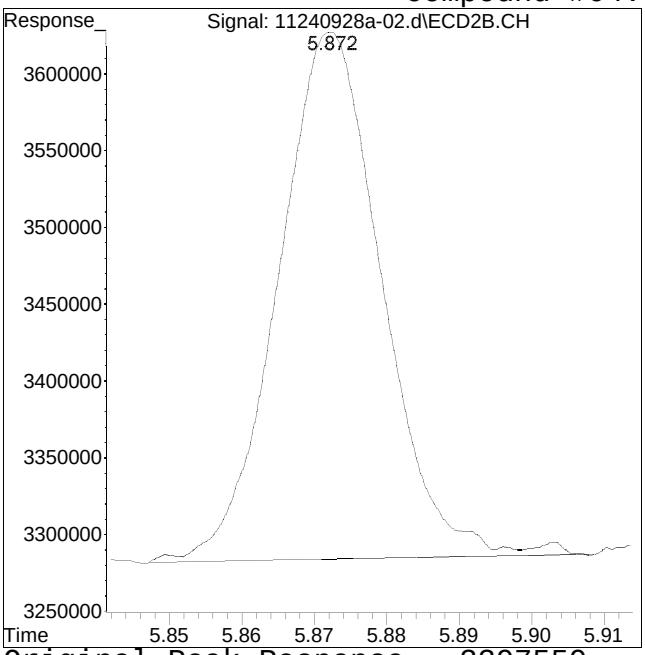
Manual Peak Response = 3943484 M4

M4 = Poor automated baseline construction.

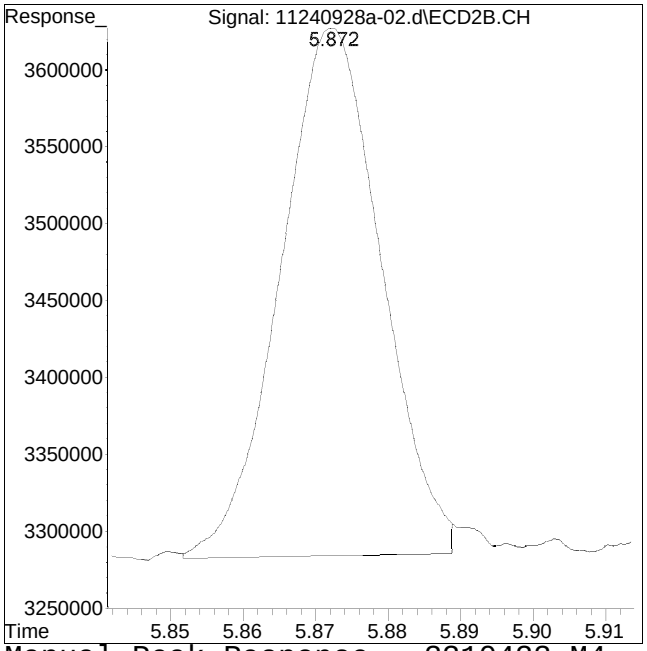
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240928QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240928a-02.d Operator : PEST11:jag
Date Inj'd : 9/28/2024 10:19 Instrument : Pest 11
Sample : pem11240928a-01,42,,deg115Quant Date : 9/28/2024 12:11 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 3397559



Manual Peak Response = 3310433 M4

M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2454352**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Pesticides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 11:56
Operator : PEST11:jag
Sample : WG1977043-1,42,, 7043 7145 (Sig #1); WG1977148-1,42,, 7043 7145 (Sig #2)
Misc : wg1977176,WG1977043,ical21365
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 14:12:15 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240927A\11240927a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.188	1.262	373.0E6	205.2E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 308061747				Recovery = 121.08%		
	Standard Area 1 : #2 = 216185320				Recovery = 94.94%		
28) i	1-br-2-nb_Ch	1.188	1.262	373.0E6	205.2E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.188	1.262	373.0E6	205.2E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.515	1.709	470.9E6	253.6E6	30.375M4	27.736M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 60.75%		55.47%
27) s	Decachlorobi	6.119	6.758	503.0E6	239.1E6	28.987M4	27.471M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 57.97%		54.94%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 11:56
Operator : PEST11:jag
Sample : WG1977043-1,42,, 7043 7145 (Sig #1); WG1977148-1,42,, 7043 7145 (Sig #2)
Misc : wg1977176,WG1977043,ical21365
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 14:12:15 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240927A\11240927a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

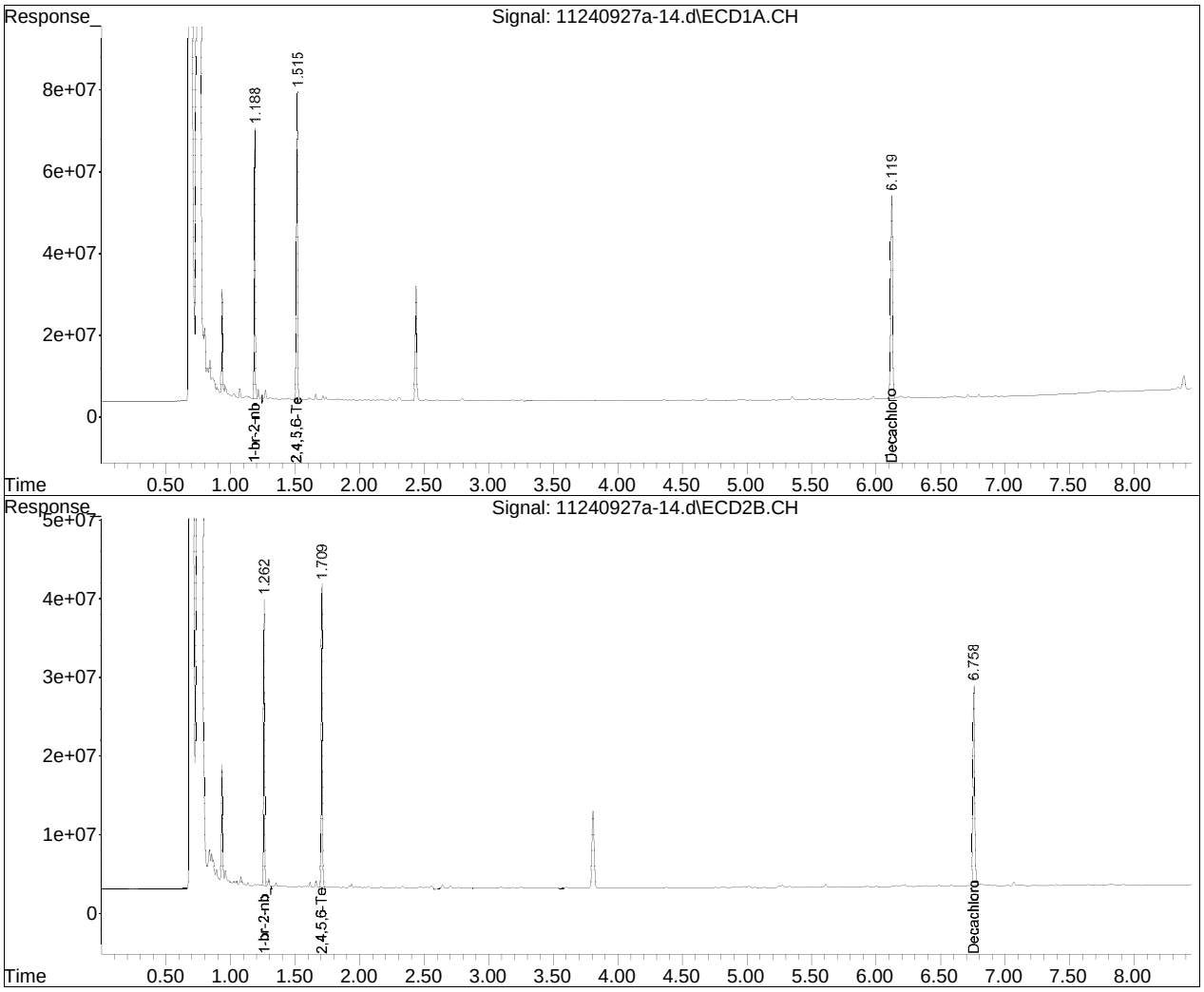
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\11240927a-03.d•

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 11:56
Operator : PEST11:jag
Sample : WG1977043-1,42,, 7043 7145 (Sig #1); WG1977148-1,42,, 7043 7145
Misc : wg1977176,WG1977043,ical21365
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 14:12:15 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

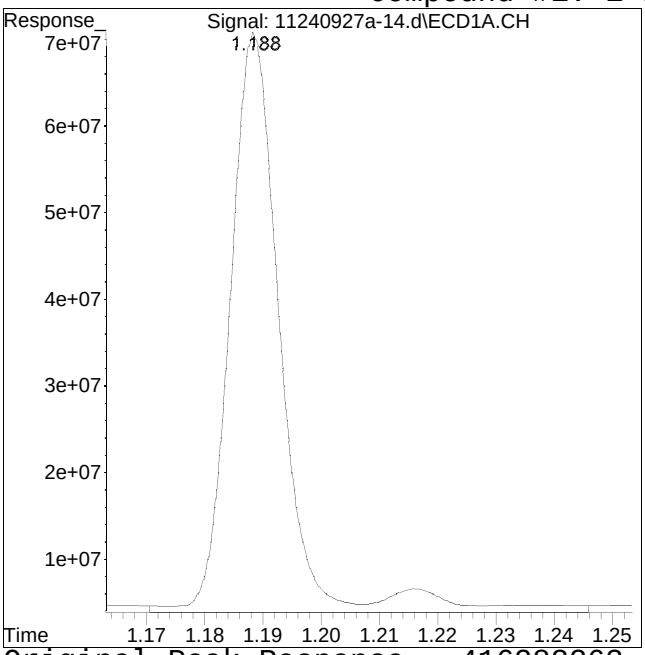
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

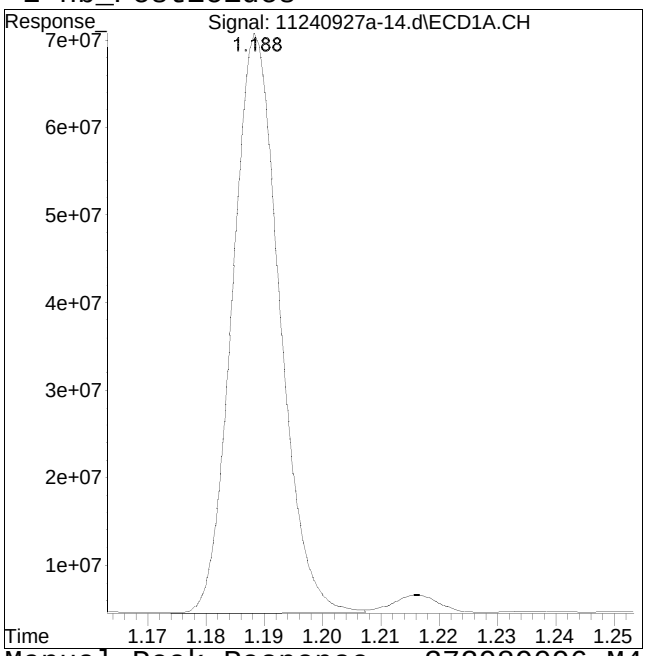


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-14.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 11:56 Instrument : Pest 11
Sample : WG1977043-1,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #1: 1-br-2-nb_Pesticides



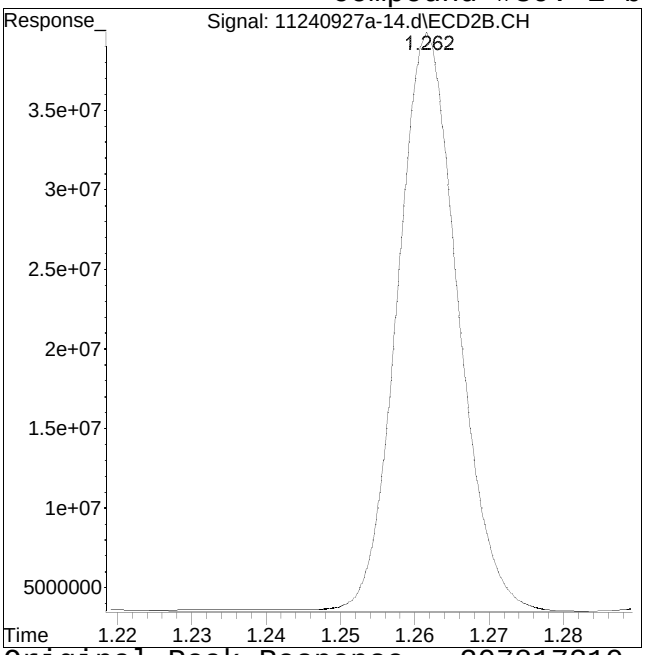


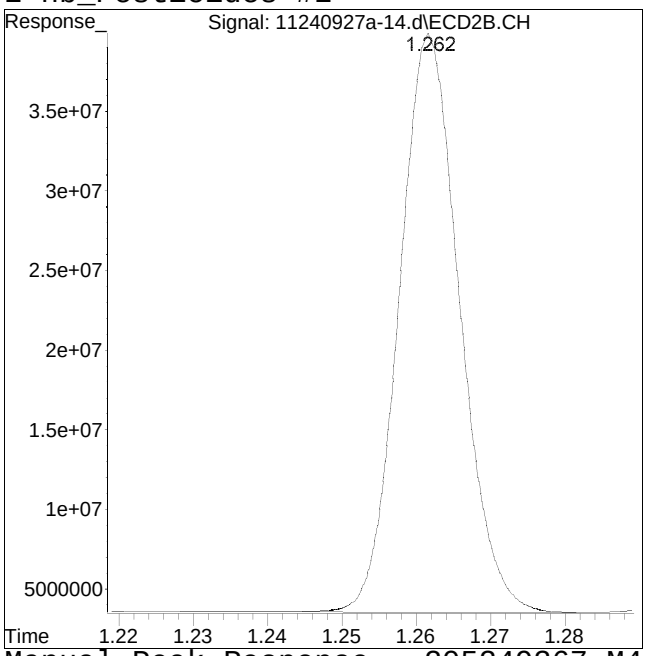
Original Peak Response = 416282263 Manual Peak Response = 372989096 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-14.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 11:56 Instrument : Pest 11
Sample : WG1977043-1,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #39: 1-br-2-nb_Pesticides #2



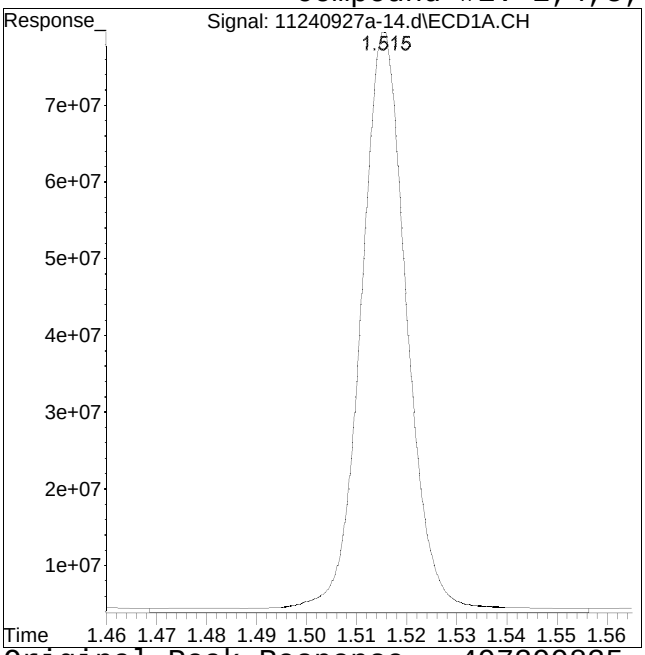


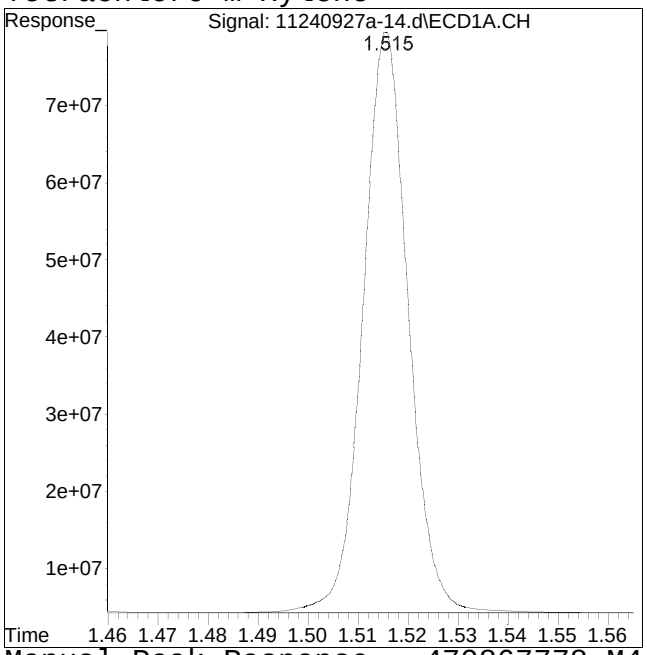
Original Peak Response = 207817310 Manual Peak Response = 205249367 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-14.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 11:56 Instrument : Pest 11
Sample : WG1977043-1,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



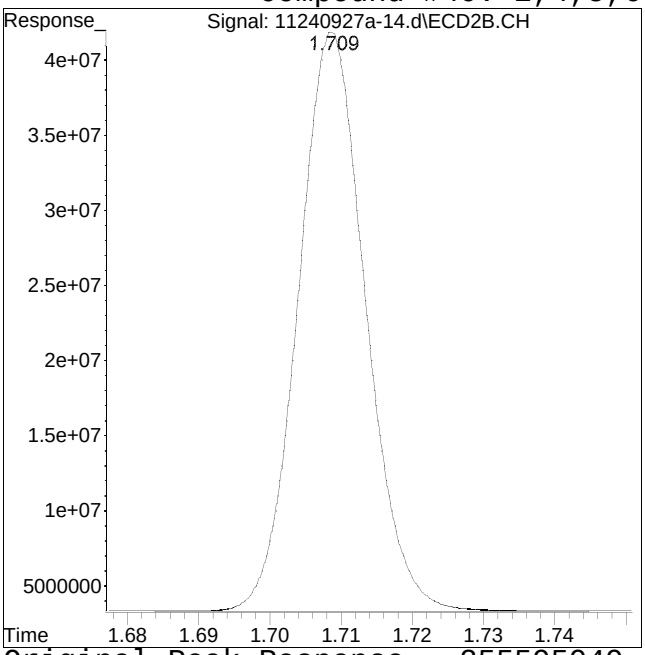


Original Peak Response = 497399835 Manual Peak Response = 470867778 M4
M4 = Poor automated baseline construction.

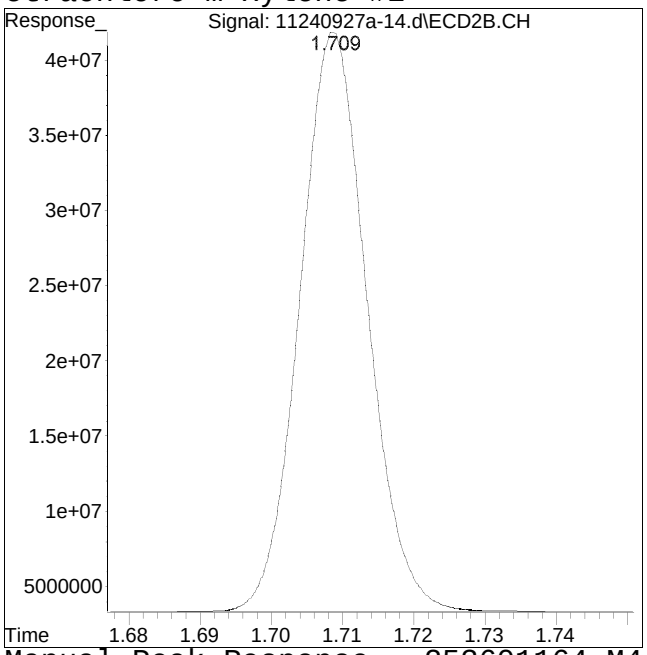
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-14.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 11:56 Instrument : Pest 11
Sample : WG1977043-1,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 255595949



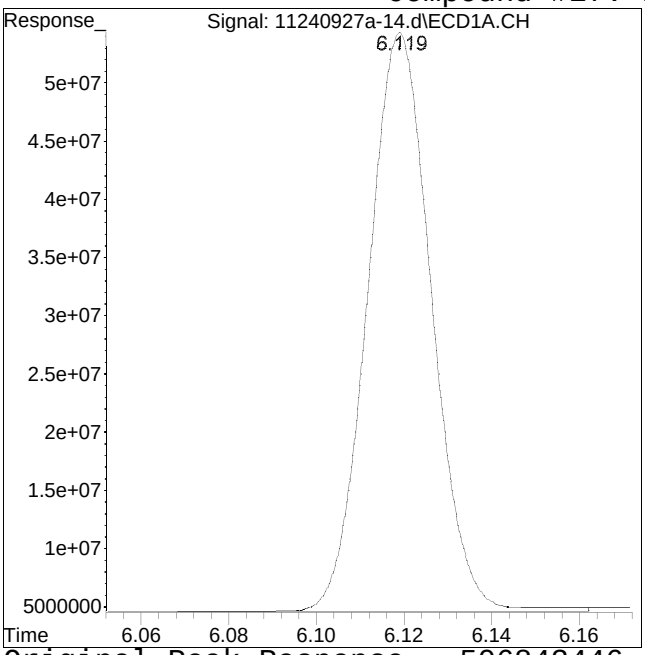
Manual Peak Response = 253601164 M4

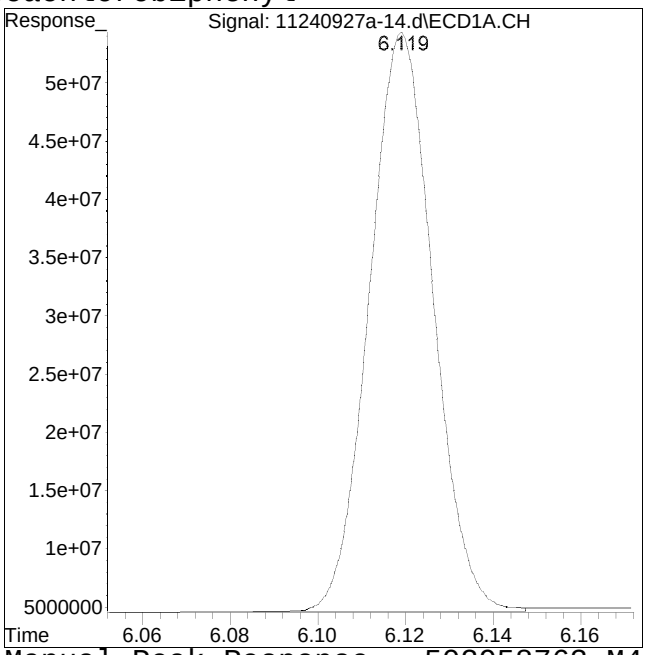
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-14.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 11:56 Instrument : Pest 11
Sample : WG1977043-1,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #27: Decachlorobiphenyl



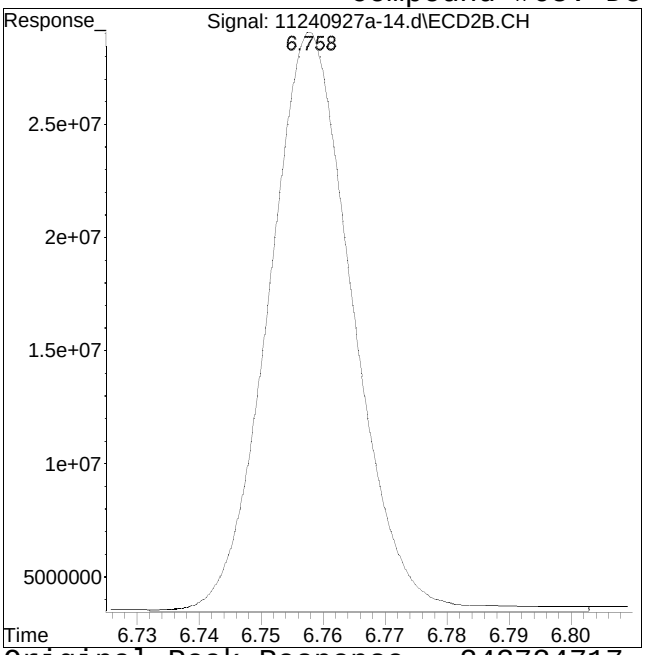


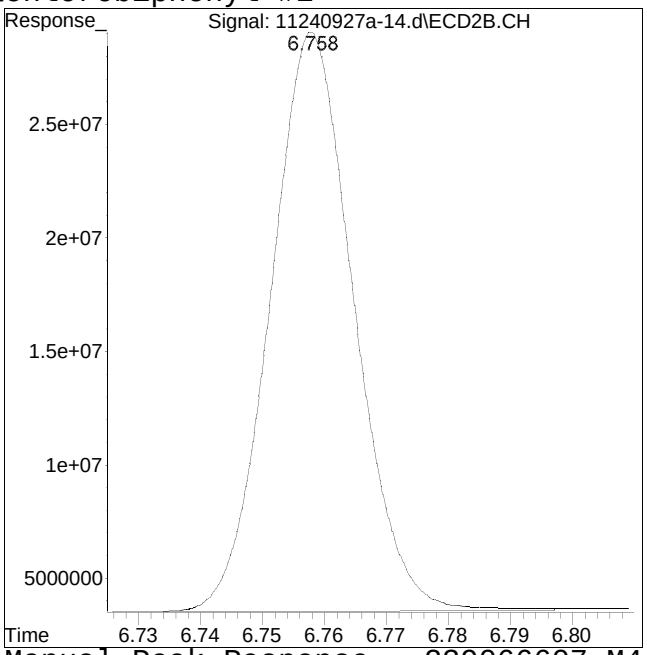
Original Peak Response = 506843446 Manual Peak Response = 502958763 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-14.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 11:56 Instrument : Pest 11
Sample : WG1977043-1,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #65: Decachlorobiphenyl #2



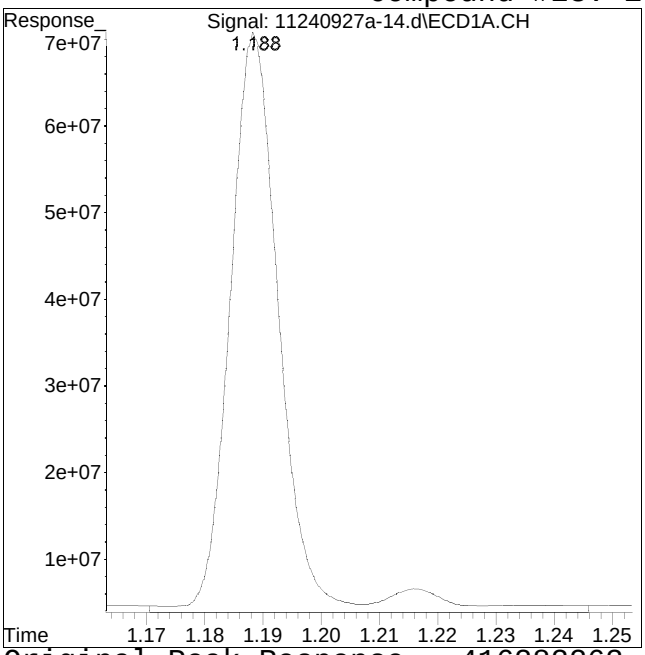


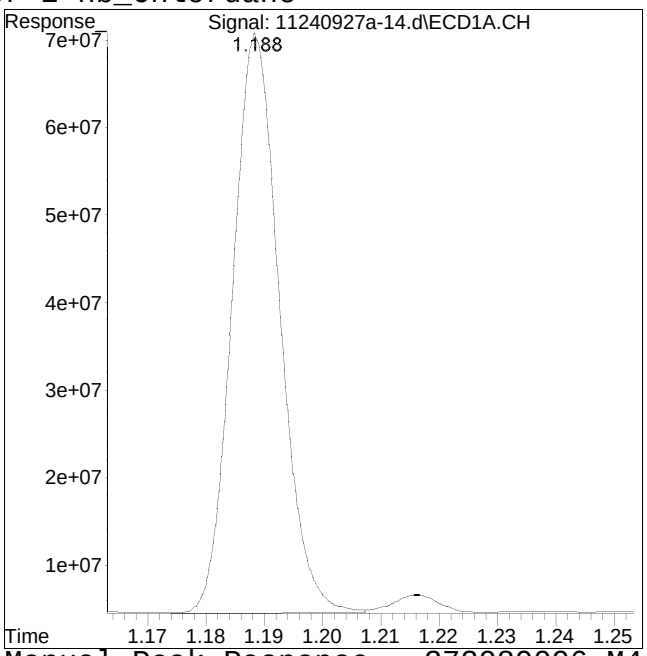
Original Peak Response = 243724717 Manual Peak Response = 239066607 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-14.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 11:56 Instrument : Pest 11
Sample : WG1977043-1,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #28: 1-br-2-nb_Chlordane



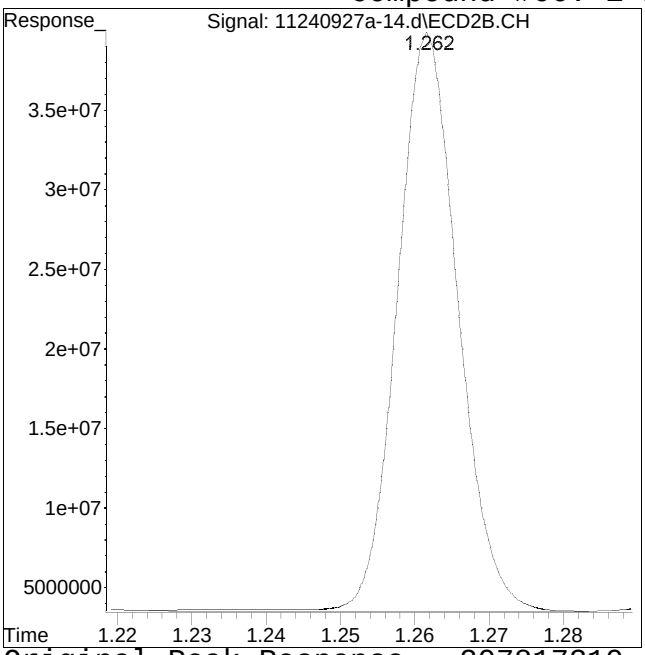


Original Peak Response = 416282263 Manual Peak Response = 372989096 M4
M4 = Poor automated baseline construction.

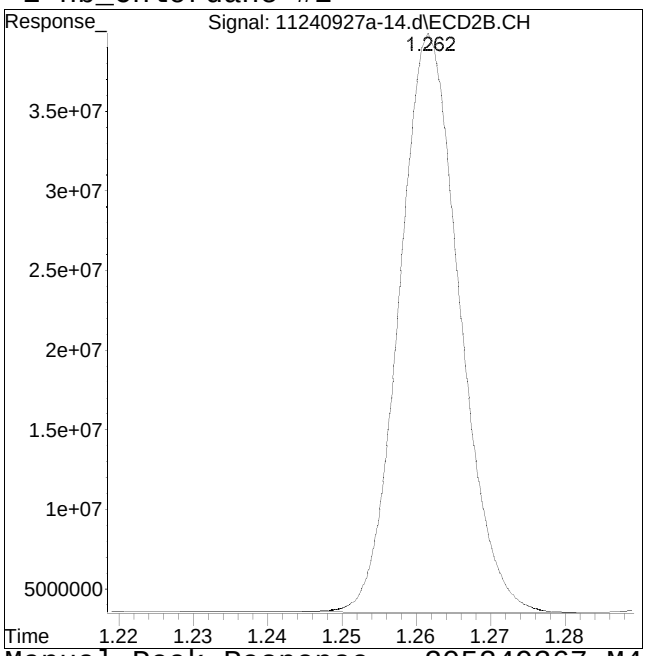
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-14.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 11:56 Instrument : Pest 11
Sample : WG1977043-1,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 207817310

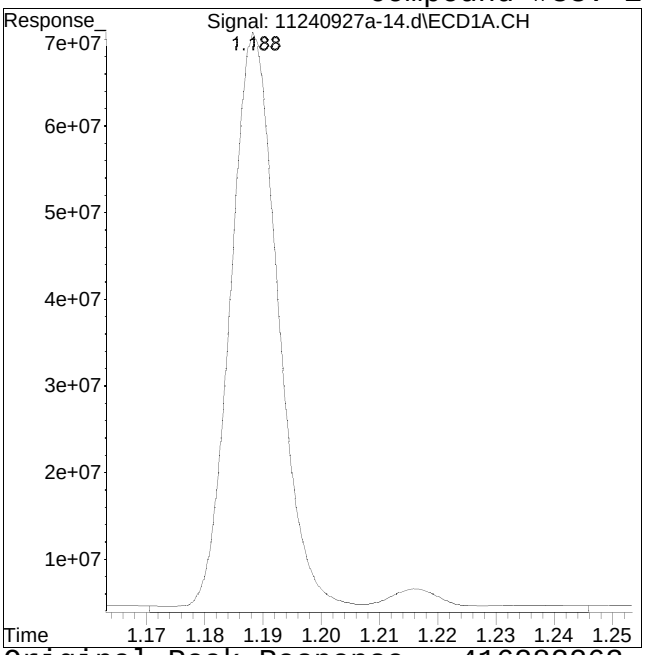


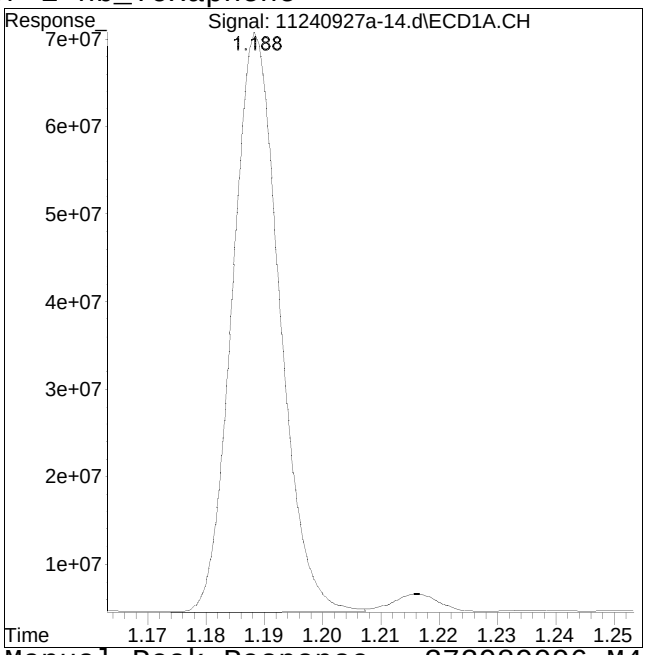
Manual Peak Response = 205249367 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-14.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 11:56 Instrument : Pest 11
Sample : WG1977043-1,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #33: 1-br-2-nb_Toxaphene



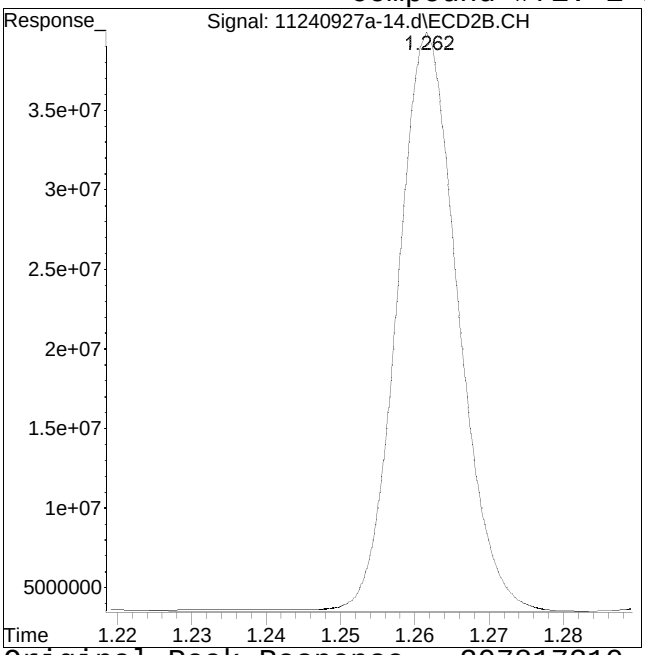


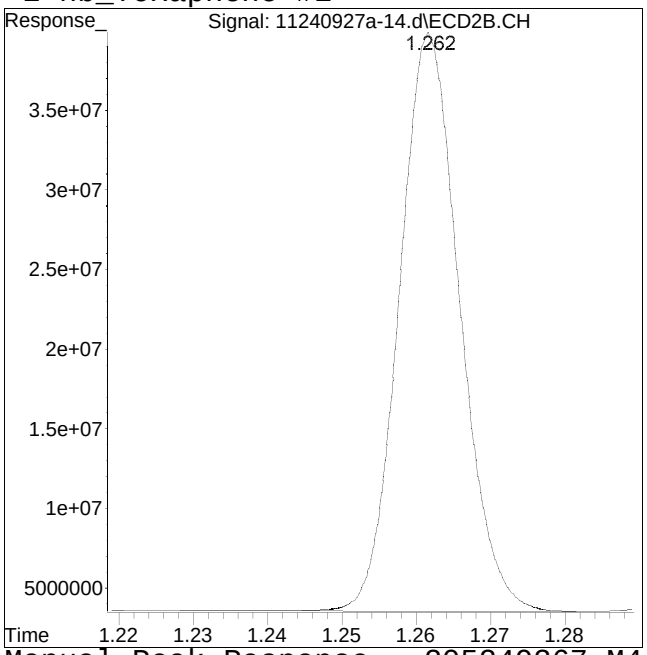
Original Peak Response = 416282263 Manual Peak Response = 372989096 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-14.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 11:56 Instrument : Pest 11
Sample : WG1977043-1,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 207817310 Manual Peak Response = 205249367 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 12:08
Operator : PEST11:jag
Sample : WG1977043-2,42,, 7043 7145 (Sig #1); WG1977148-2,42,, 7043 7145 (Sig #2)
Misc : wg1977176,WG1977043,ical21365
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 14:12:51 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240927A\11240927a-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.189	1.262	356.9E6	199.1E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 308061747				Recovery = 115.85%		
	Standard Area 1 : #2 = 216185320				Recovery = 92.09%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.516	1.709	452.2E6	246.1E6	30.485M3	27.748M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 60.97%		55.50%	
27) s	Decachlorobi	6.119	6.753	503.5E6	235.7E6	30.329M4	27.922M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 60.66%		55.84%	
Target Compounds							
4) t	alpha-BHC	1.810	2.098	686.2E6	354.6E6	32.909M4	27.496M4
5) t	gamma-BHC (l	2.000	2.367	620.4E6	325.4E6	31.146M4	26.550M4
6) t	beta-BHC	2.054	2.432	273.2E6	144.8E6	30.484M4	28.565M4
7) t	delta-BHC	2.175	2.684	572.7E6	291.9E6	29.196M4	24.072M4
8) t	Heptachlor	2.329	2.741	621.4E6	311.8E6	32.952M4	24.511M4
9) t	Aldrin	2.558	3.043	547.1E6	287.7E6	31.074M4	25.180M4
12) t	Heptachlor E	3.078	3.633	534.0E6	276.3E6	31.553M4	24.341M4
13) t	gamma-Chlord	3.197	3.846	549.5E6	282.7E6	35.740M3	27.066M4
14) t	alpha-Chlord	3.326	4.013	513.0E6	277.9E6	29.545M4	24.139M4
15) t	4,4'-DDE	3.424	4.232	527.0E6	270.2E6	30.984M4	25.274M4
16) t	Endosulfan I	3.455	4.075	503.3E6	262.0E6	31.585	24.698M4
17) t	Dieldrin	3.705	4.391	566.7E6	292.9E6	34.973M3	27.712M4
18) t	Endrin	3.951	4.706	533.4E6	274.3E6	32.413M4	25.579M4
19) t	4,4'-DDD	4.072	4.846	454.2E6	228.3E6	34.312M4	26.458M4
20) t	Endosulfan I	4.205	4.917	496.5E6	255.2E6	33.061M4	26.405M4
21) t	4,4'-DDT	4.390	5.134	501.3E6	255.4E6	33.179M4	25.658M4

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 12:08
Operator : PEST11:jag
Sample : WG1977043-2,42,, 7043 7145 (Sig #1); WG1977148-2,42,, 7043 7145 (Sig #2)
Misc : wg1977176,WG1977043,ical21365
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 14:12:51 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240927A\11240927a-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t Endrin Aldeh	4.649	5.226	345.1E6	179.9E6	27.274M4	24.001M4
23) t Methoxychlor	4.909	5.719	297.3E6	145.1E6	35.180M4	25.866M4
25) t Endosulfan S	5.057	5.462	485.2E6	243.0E6	33.663M4	25.454M4
26) t Endrin Keton	5.290	5.879	571.4E6	288.3E6	33.826M4	28.712M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

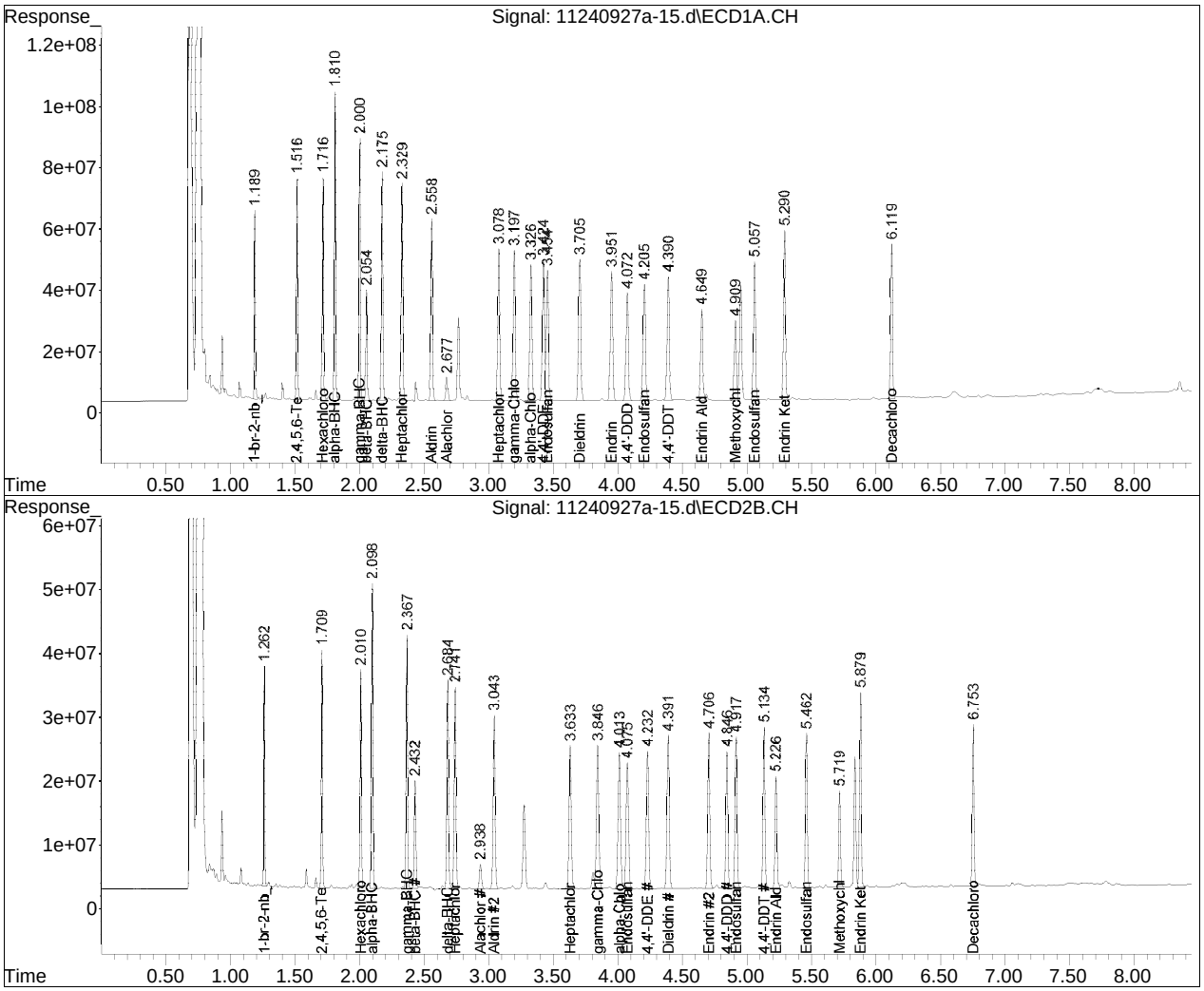
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only1\2024\240927A\11240927a-03.d•

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 12:08
Operator : PEST11:jag
Sample : WG1977043-2,42,, 7043 7145 (Sig #1); WG1977148-2,42,, 7043 7145
Misc : wg1977176,WG1977043,ical21365
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 14:12:51 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

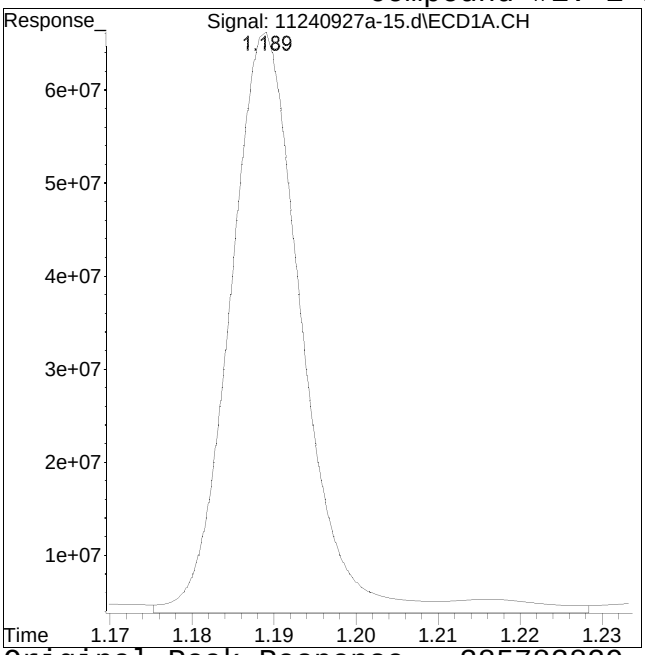
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



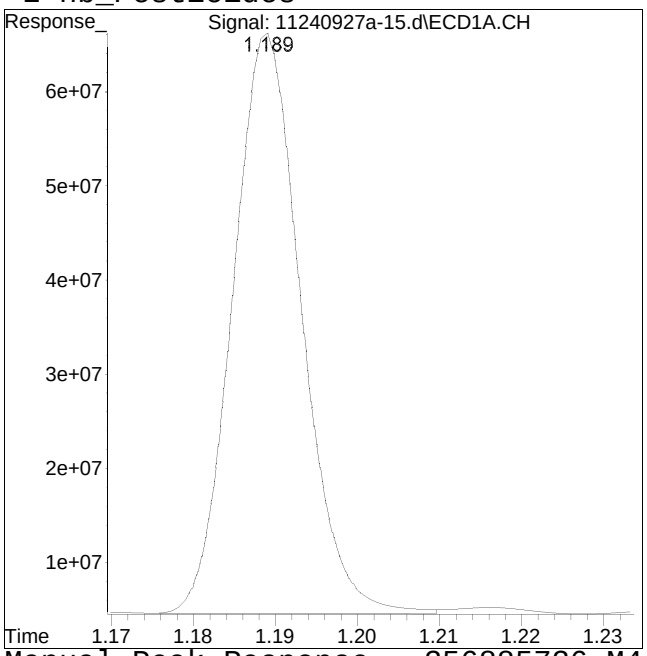
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 385783829

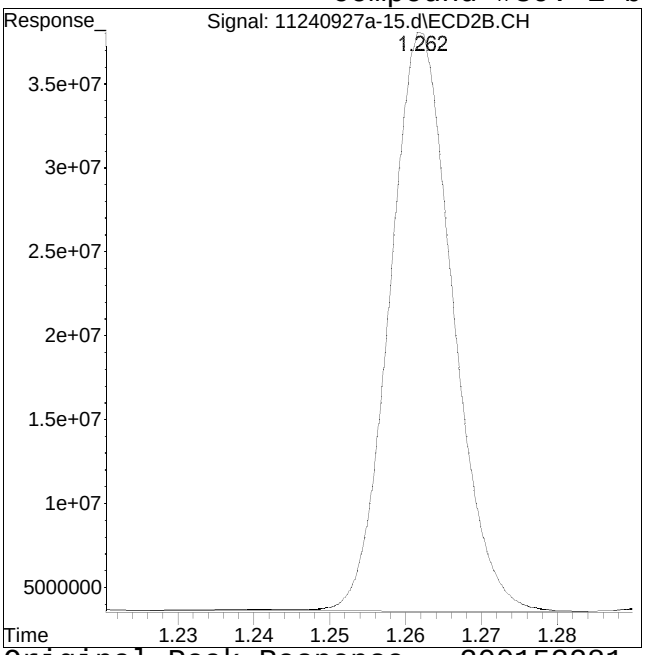


Manual Peak Response = 356885736 M4
M4 = Poor automated baseline construction.

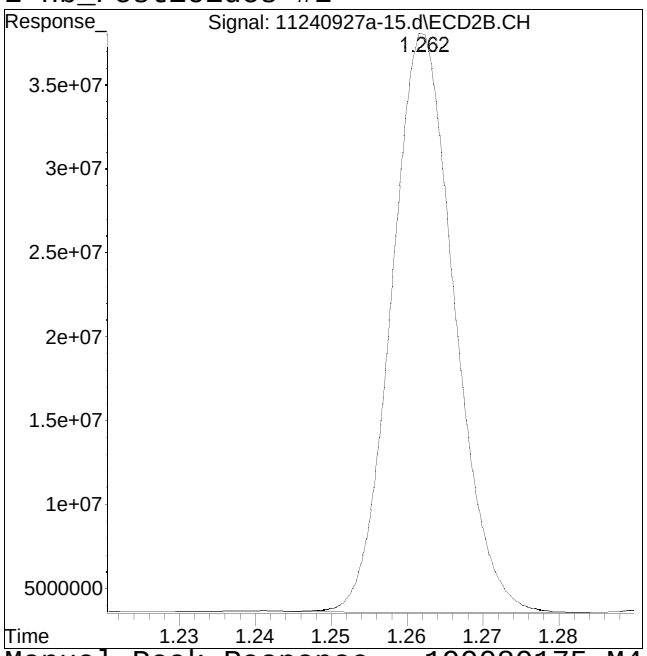
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 200153281



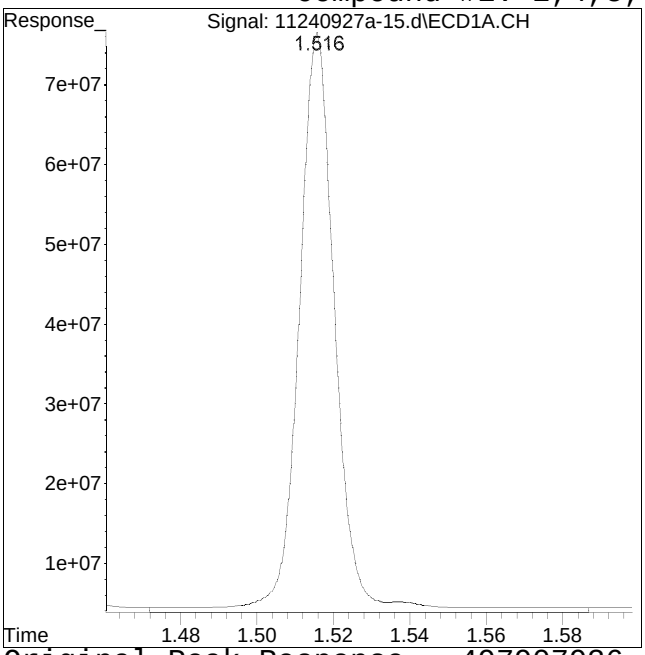
Manual Peak Response = 199080175 M4

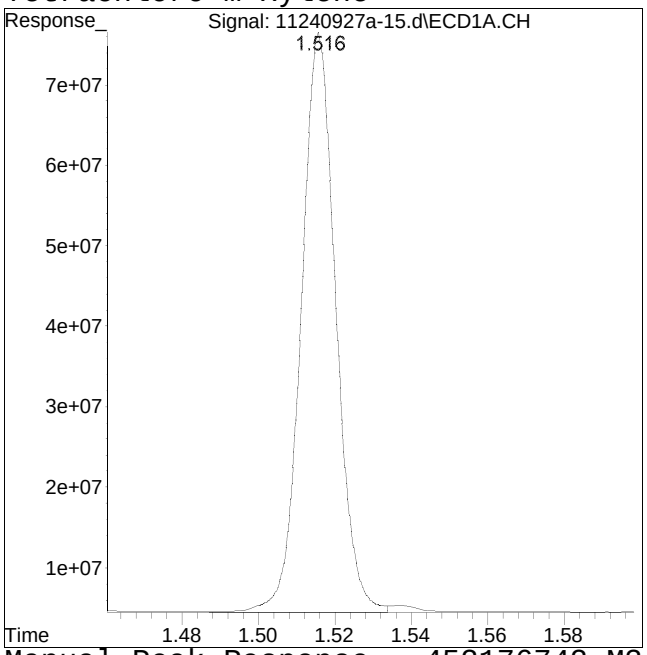
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



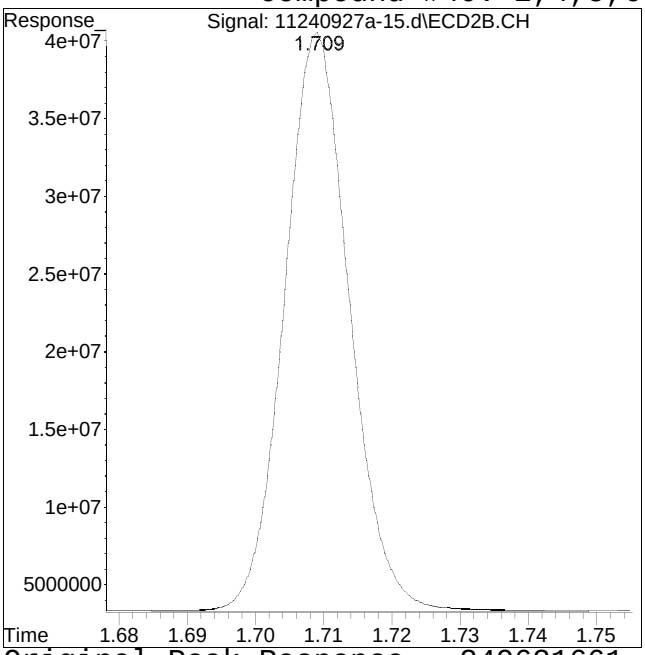


Original Peak Response = 497907936 Manual Peak Response = 452176742 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

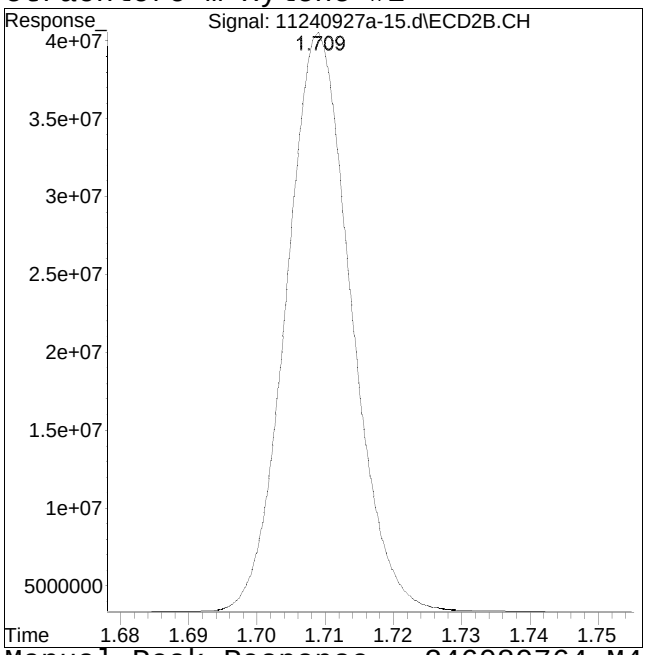
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 249621661



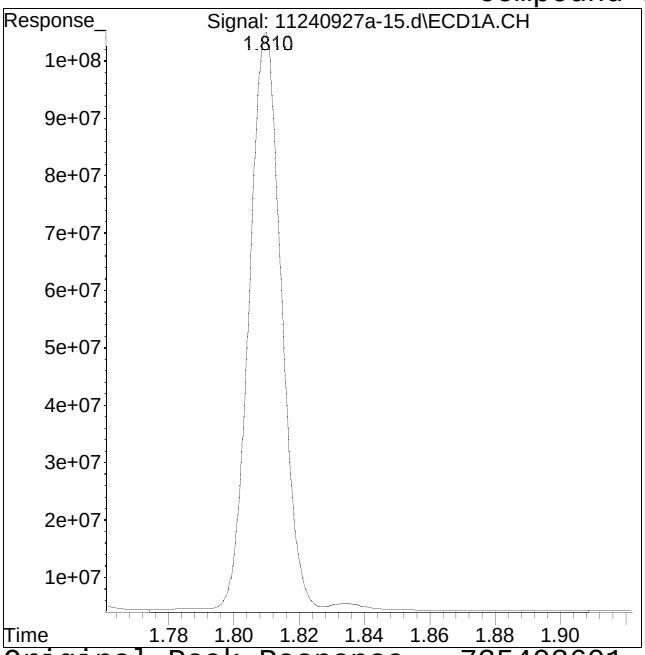
Manual Peak Response = 246080764 M4

M4 = Poor automated baseline construction.

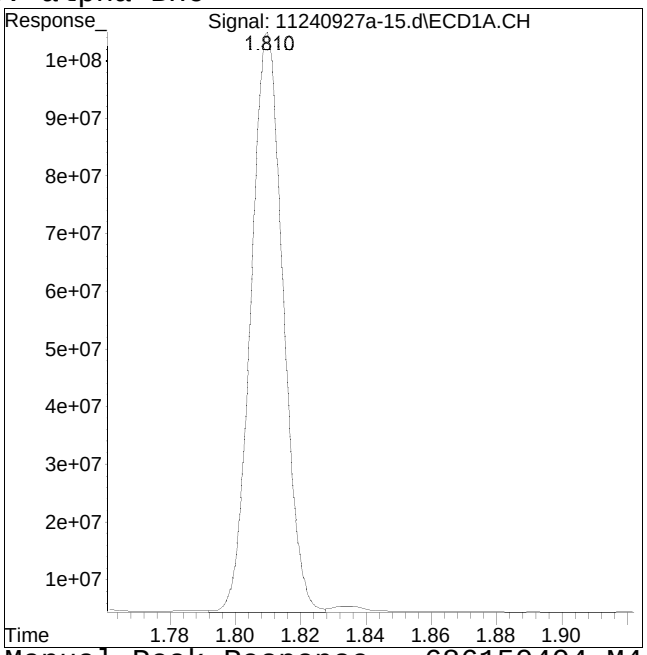
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #4: alpha-BHC



Original Peak Response = 735403601



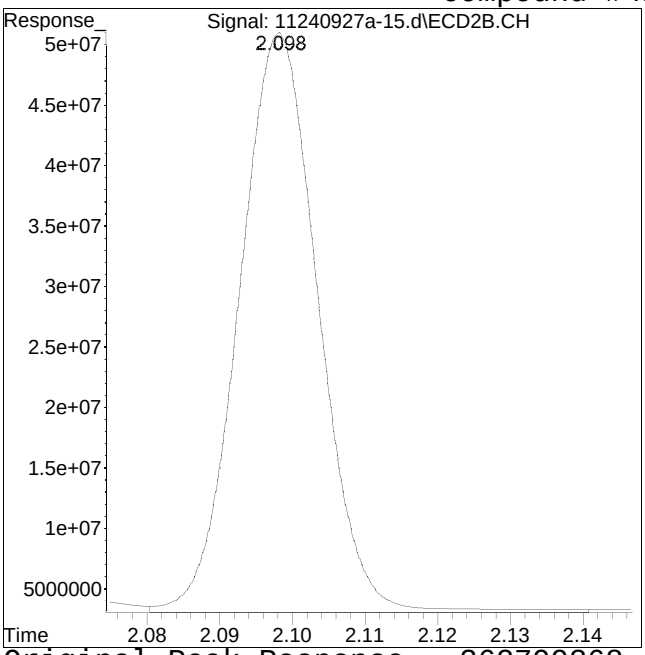
Manual Peak Response = 686150404 M4

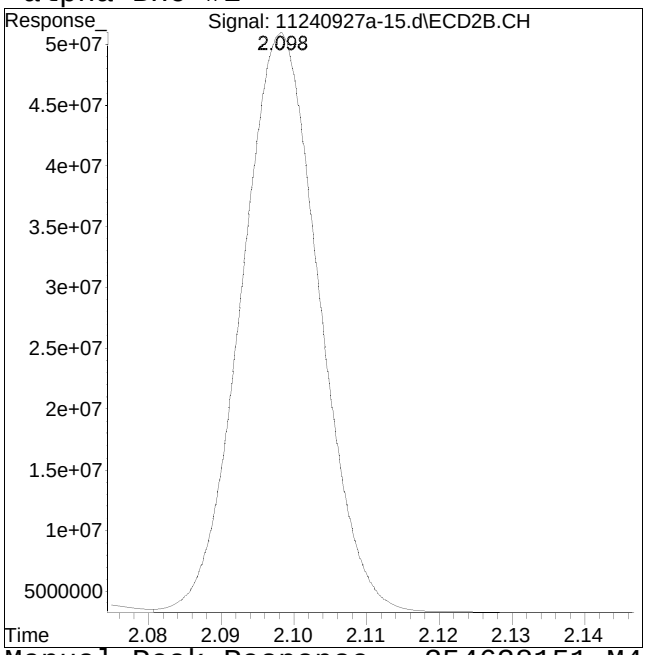
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #42: alpha-BHC #2



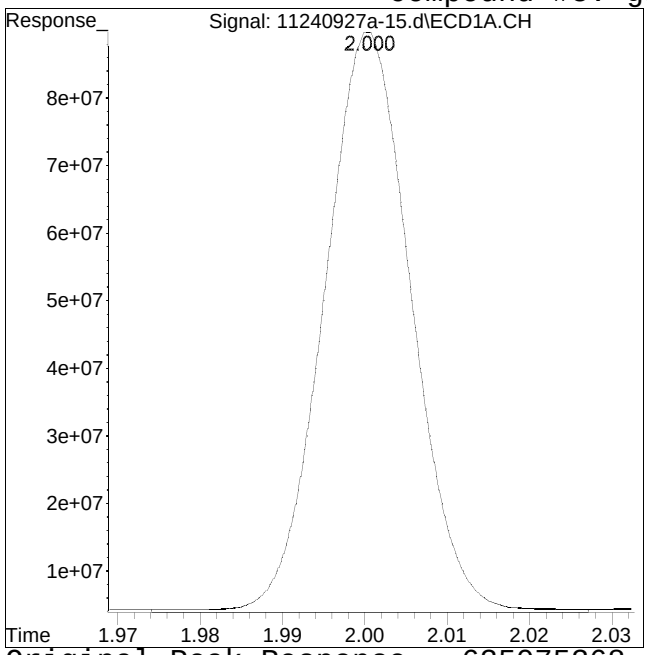


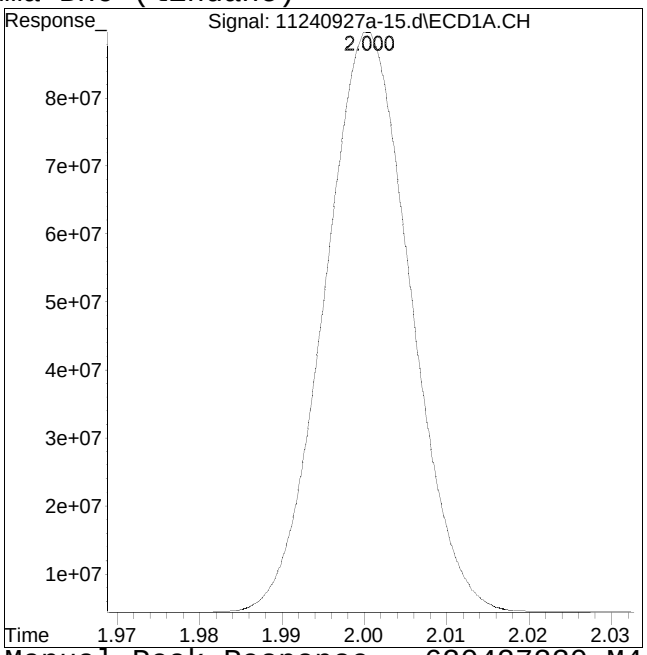
Original Peak Response = 362799368 Manual Peak Response = 354638151 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #5: gamma-BHC (lindane)



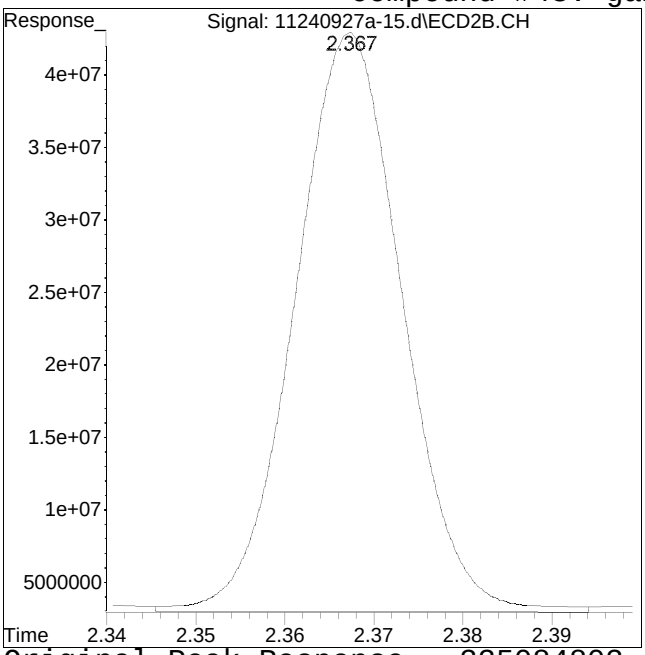


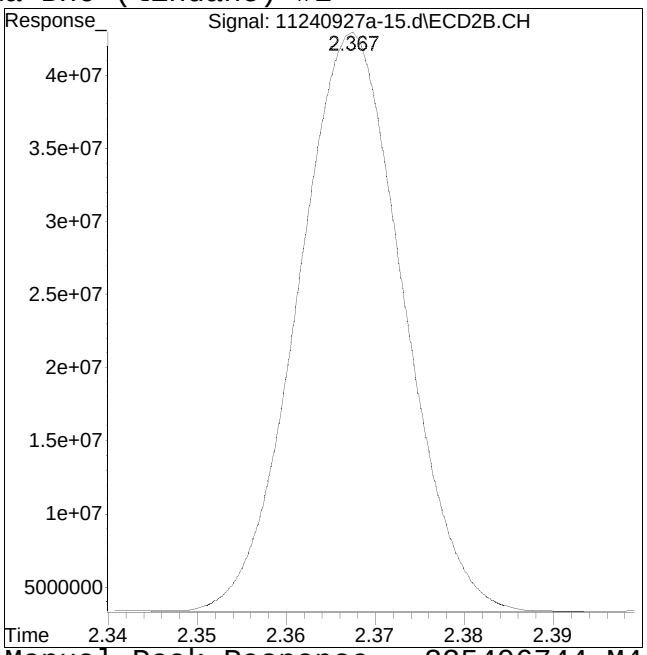
Original Peak Response = 635075368 Manual Peak Response = 620427330 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #43: gamma-BHC (lindane) #2



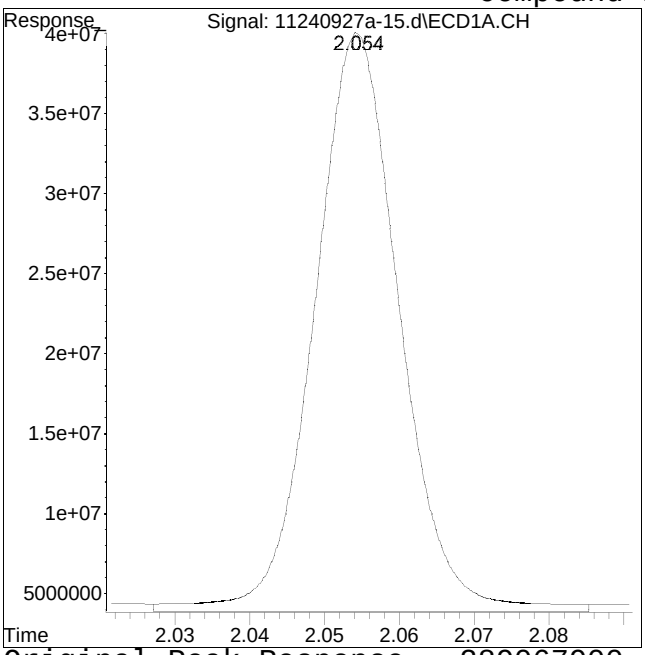


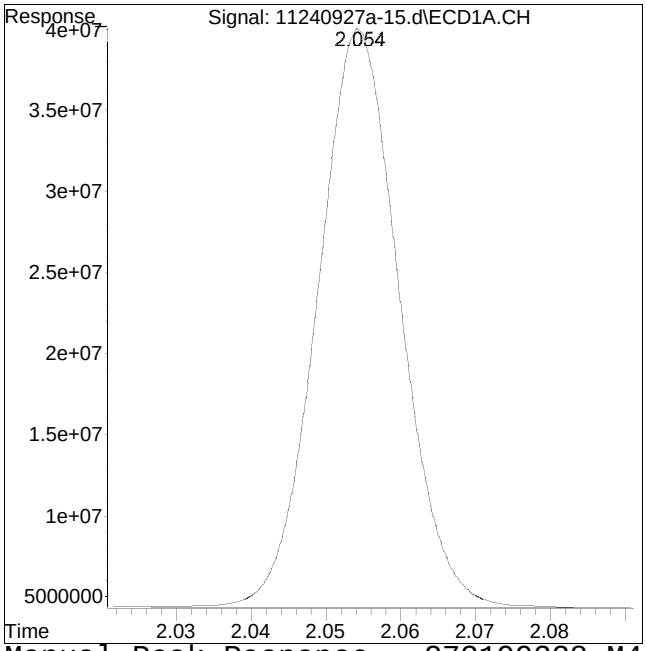
Original Peak Response = 335084803 Manual Peak Response = 325406744 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #6: beta-BHC



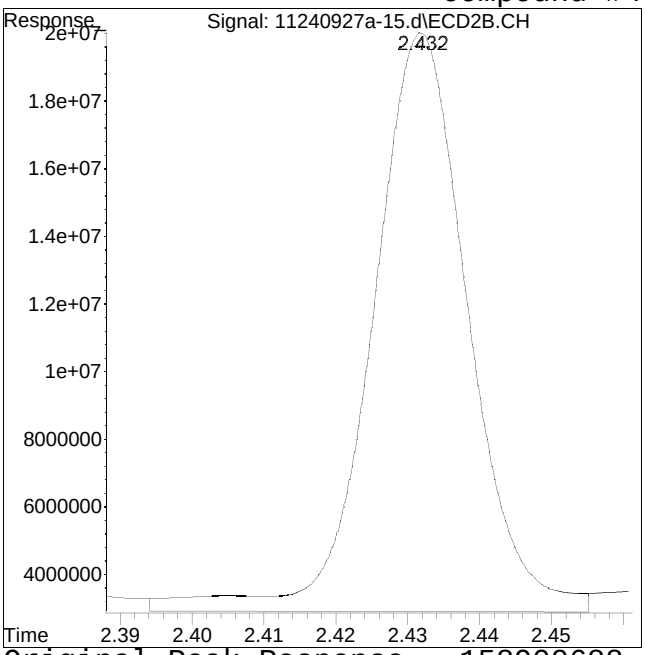


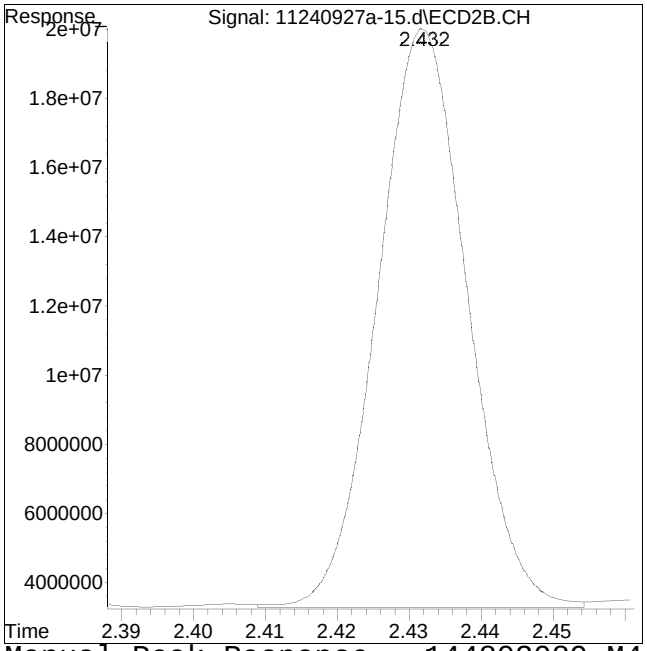
Original Peak Response = 289067900 Manual Peak Response = 273199228 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #44: beta-BHC #2



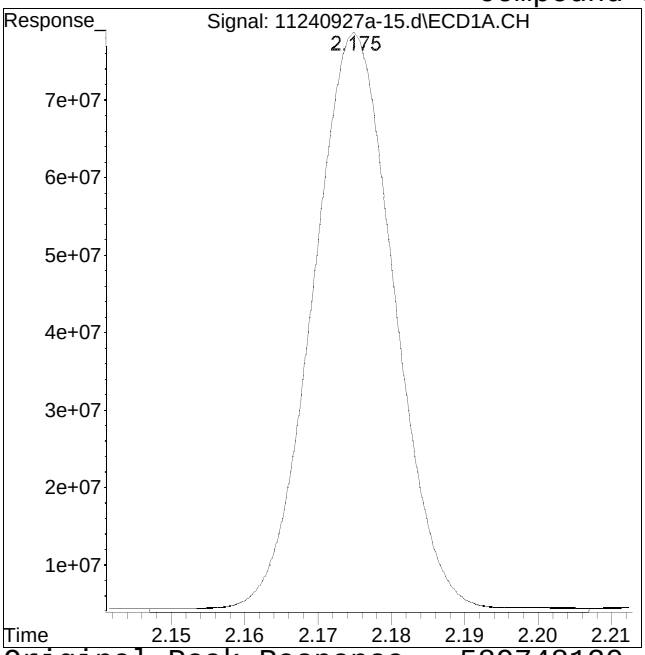


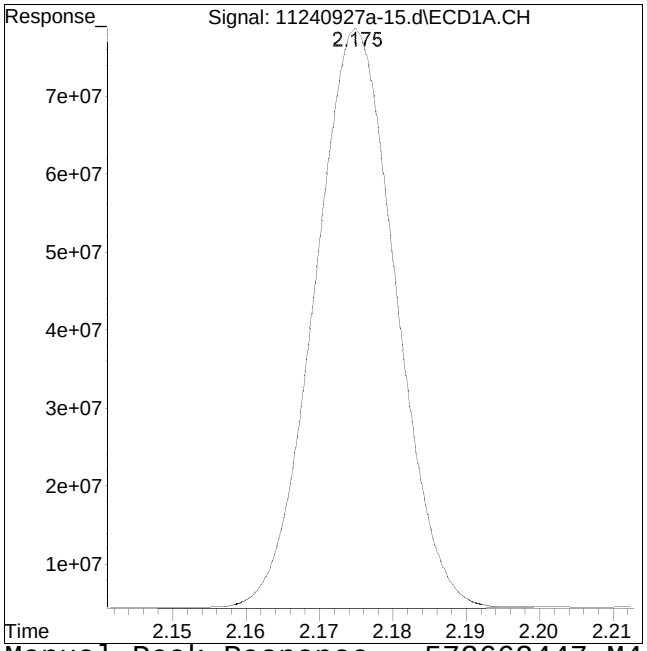
Original Peak Response = 158900688 Manual Peak Response = 144803089 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #7: delta-BHC



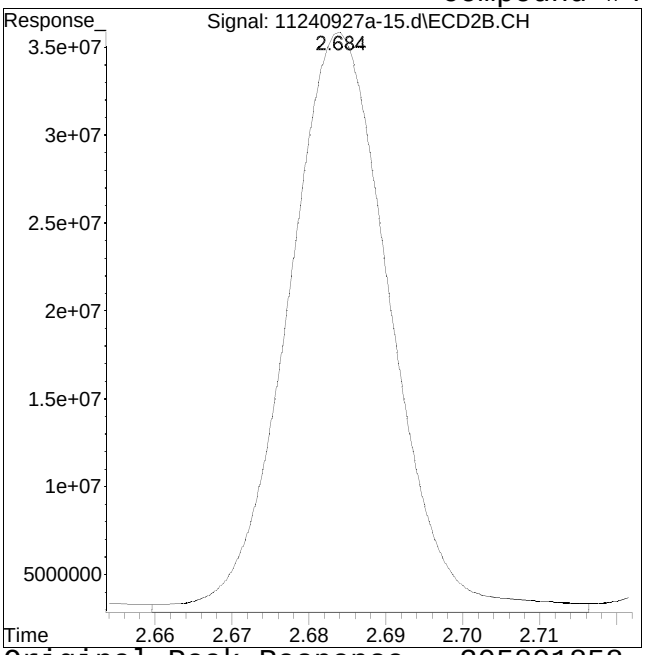


Original Peak Response = 589748120 Manual Peak Response = 572662447 M4
M4 = Poor automated baseline construction.

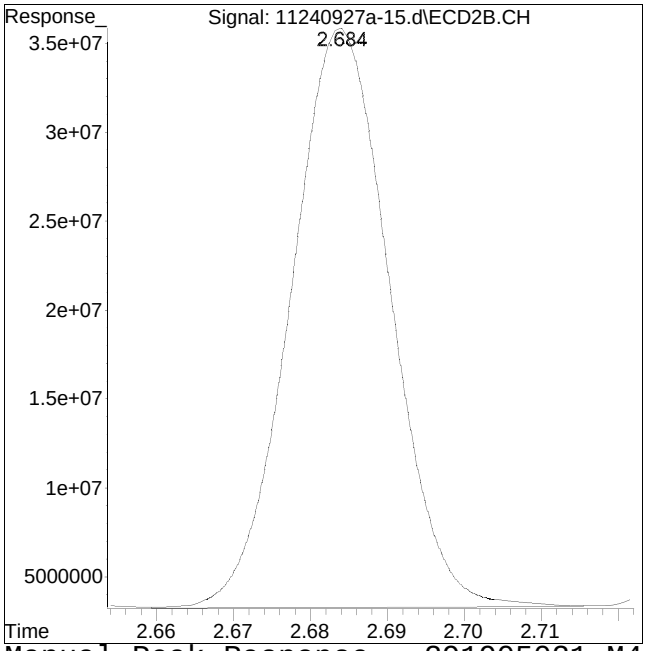
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #45: delta-BHC #2



Original Peak Response = 305891858



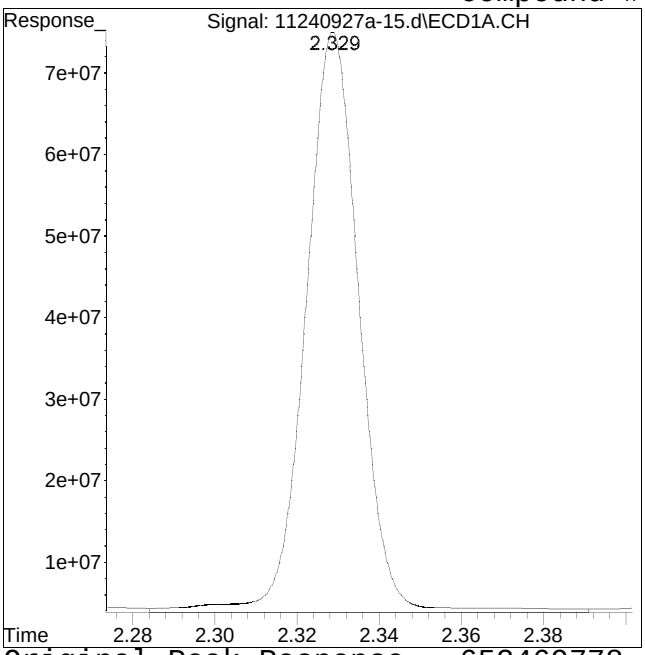
Manual Peak Response = 291905021 M4

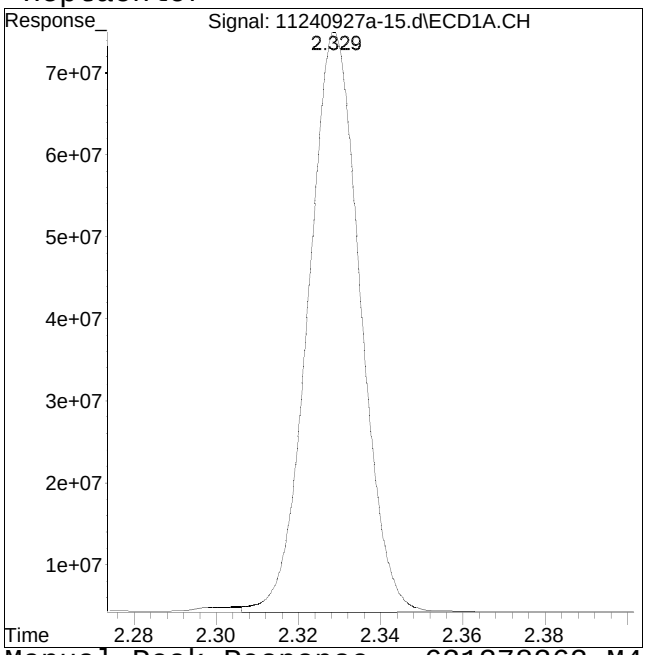
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #8: Heptachlor



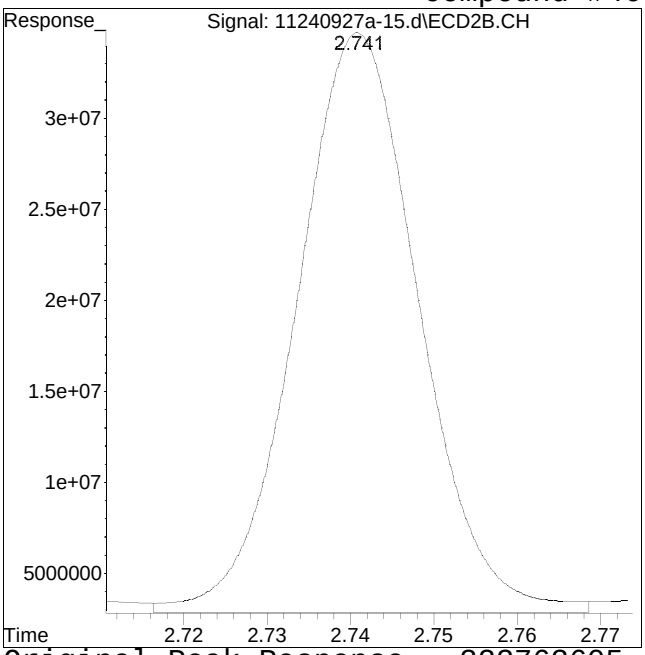


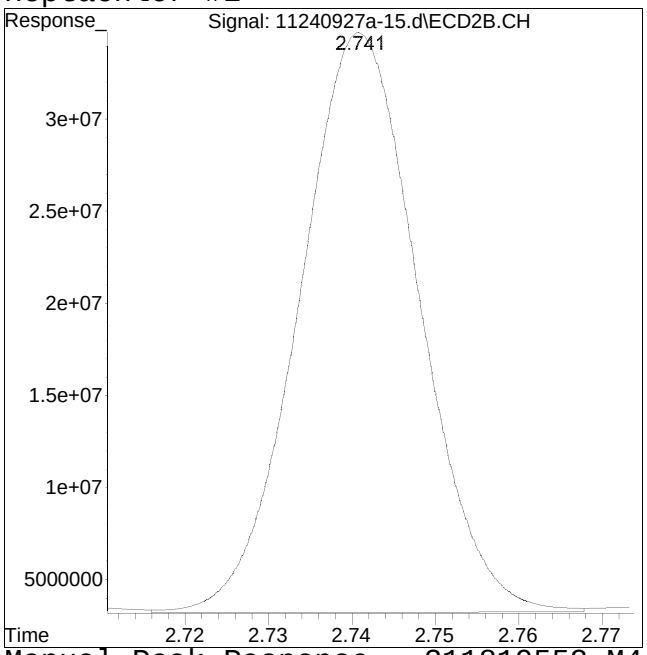
Original Peak Response = 652469778 Manual Peak Response = 621378362 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #46: Heptachlor #2



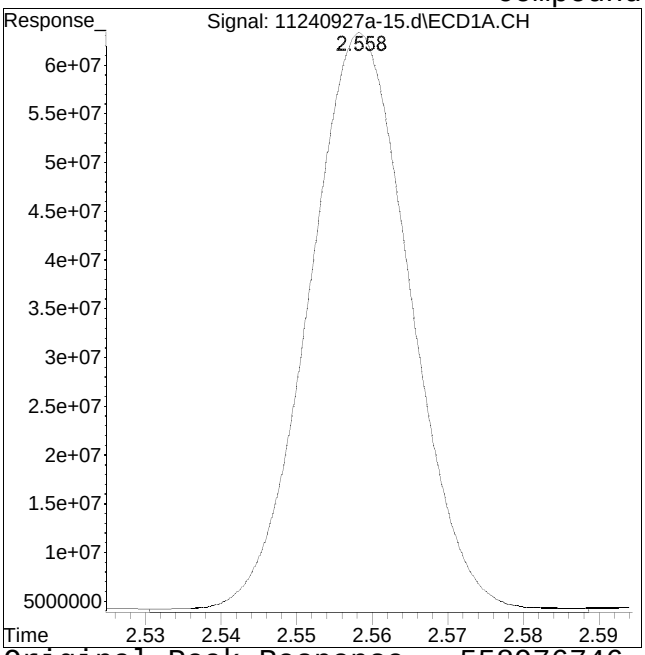


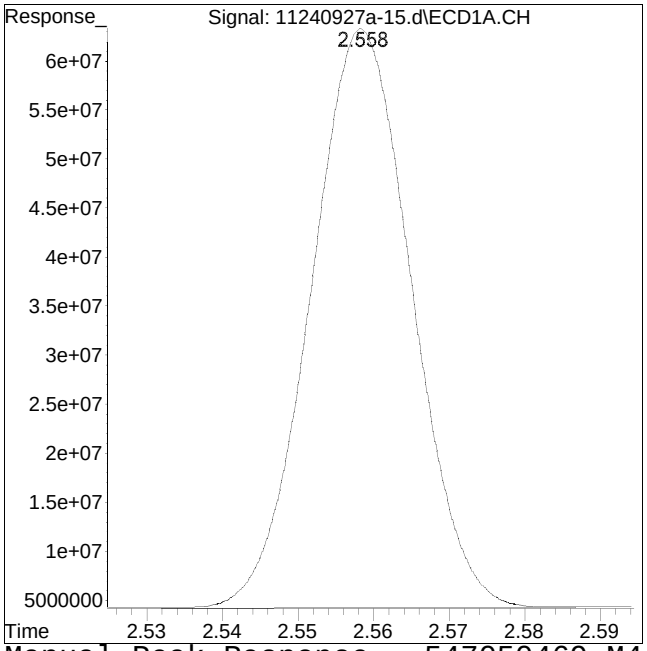
Original Peak Response = 323763605 Manual Peak Response = 311819552 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #9: Aldrin



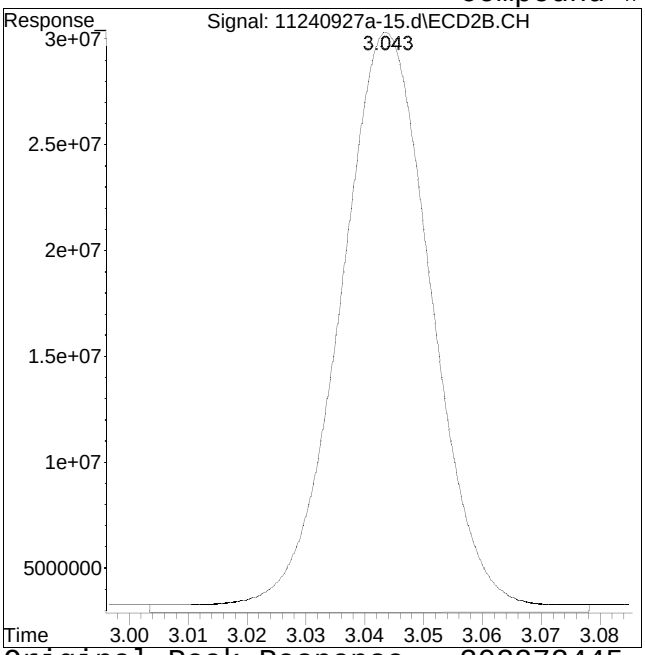


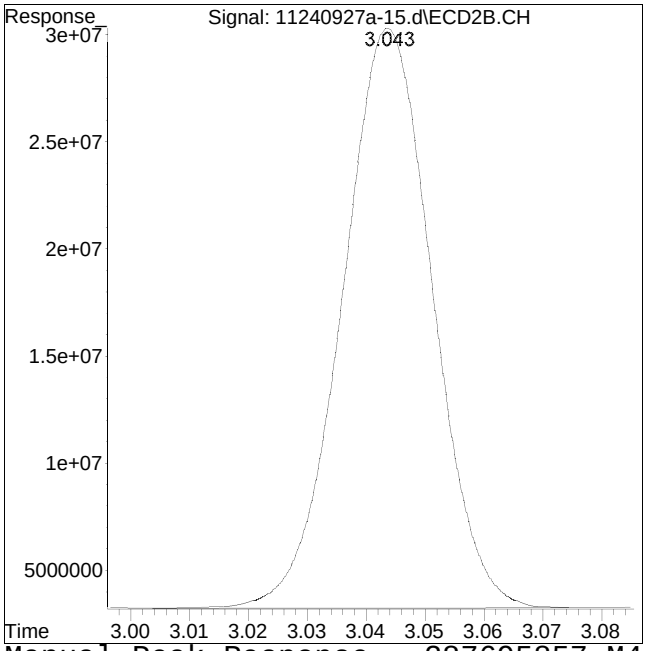
Original Peak Response = 558976746 Manual Peak Response = 547050469 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #47: Aldrin #2



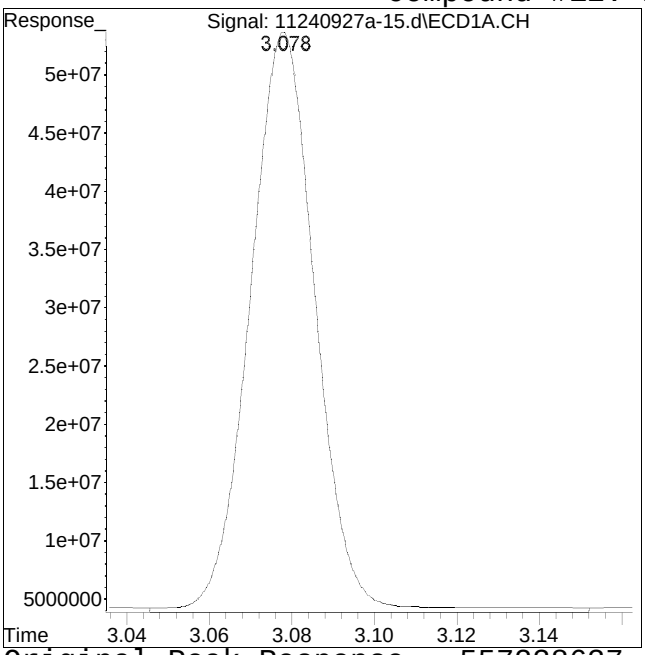


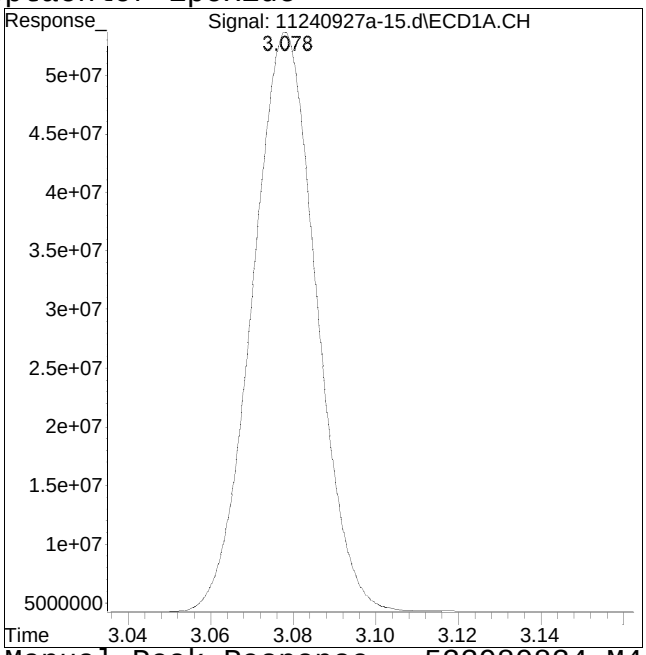
Original Peak Response = 302272445 Manual Peak Response = 287695857 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #12: Heptachlor Epoxide



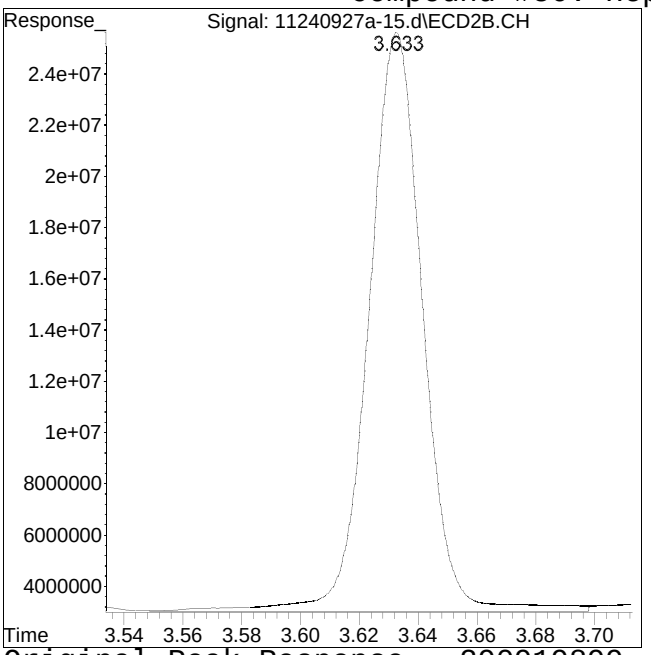


Original Peak Response = 557238637 Manual Peak Response = 533980834 M4
M4 = Poor automated baseline construction.

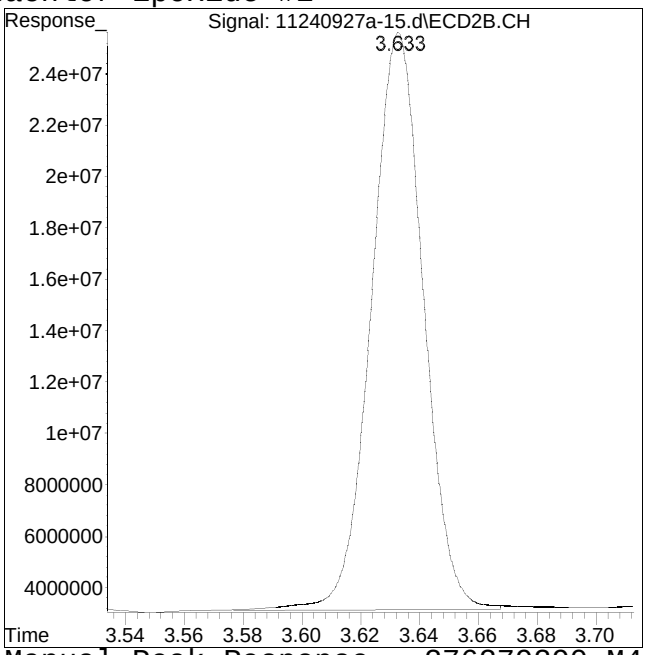
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 290919899



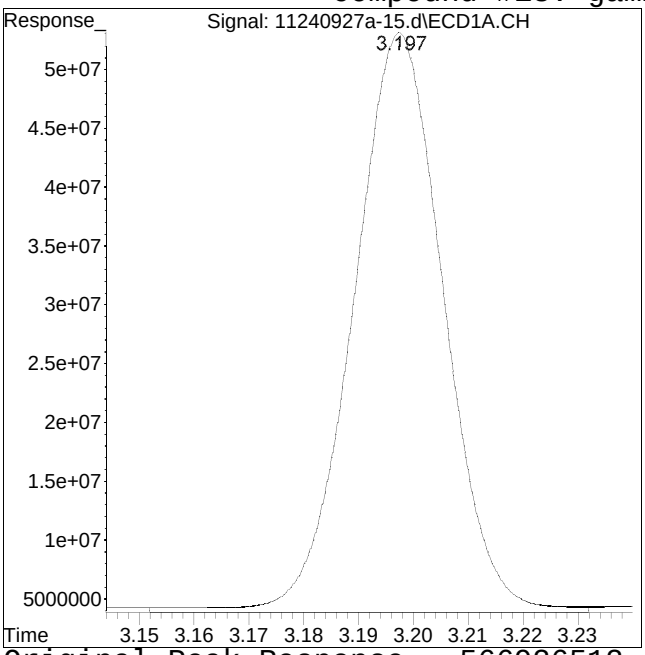
Manual Peak Response = 276279290 M4

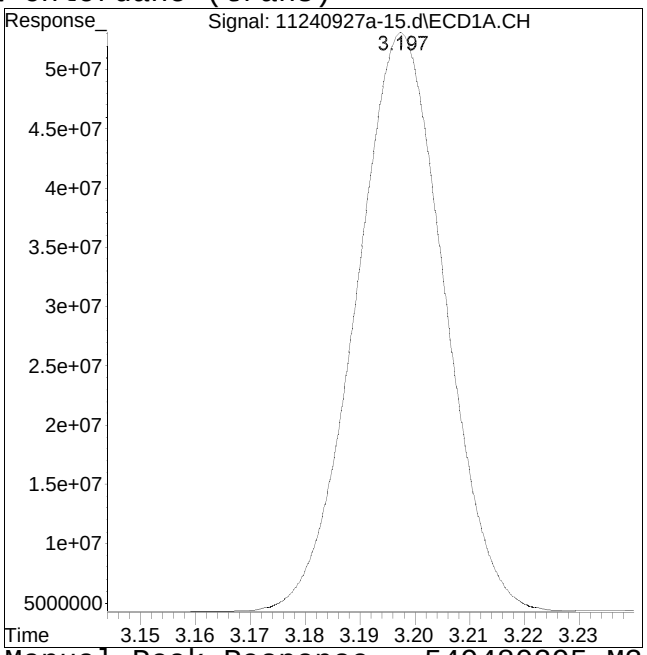
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #13: gamma-Chlordane (trans)



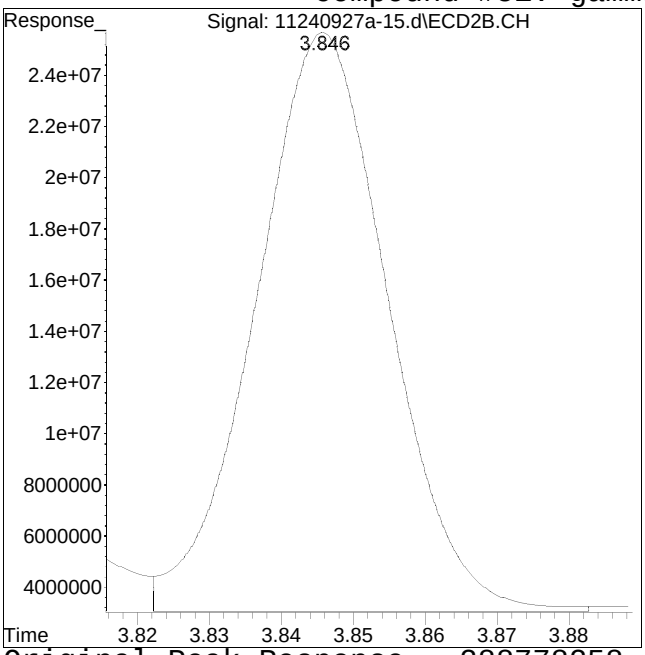


Original Peak Response = 566926512 Manual Peak Response = 549480295 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

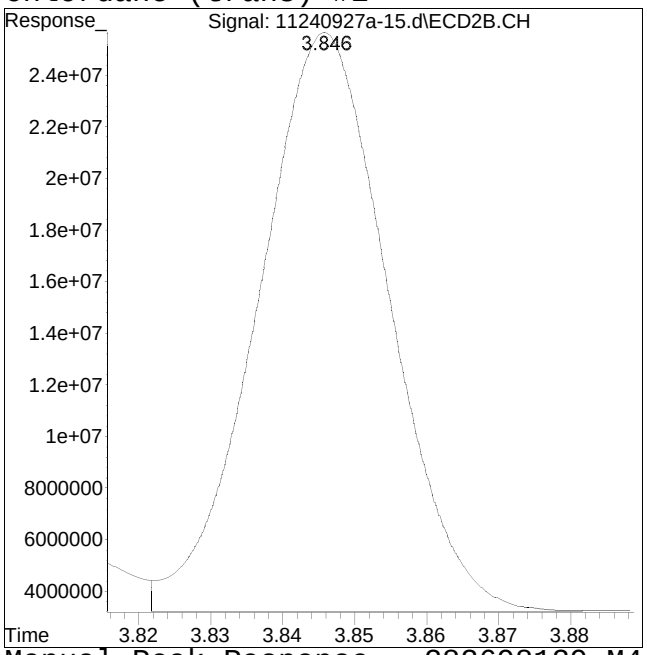
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 288778258



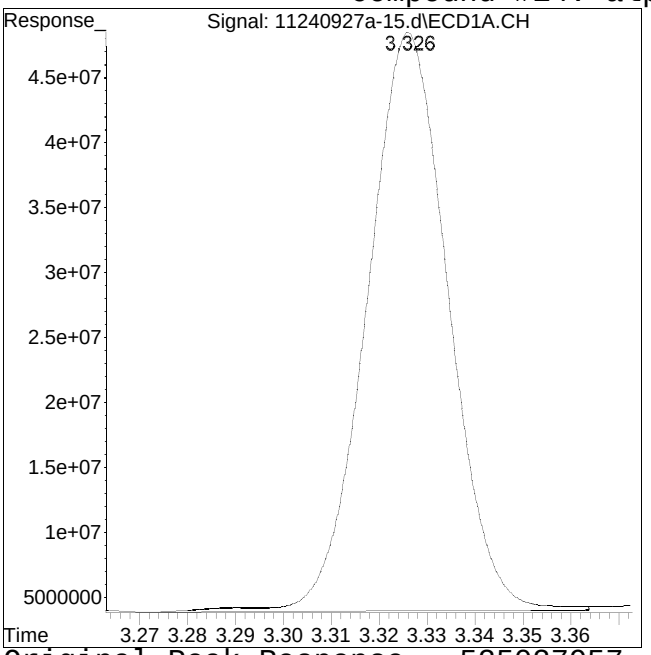
Manual Peak Response = 282698129 M4

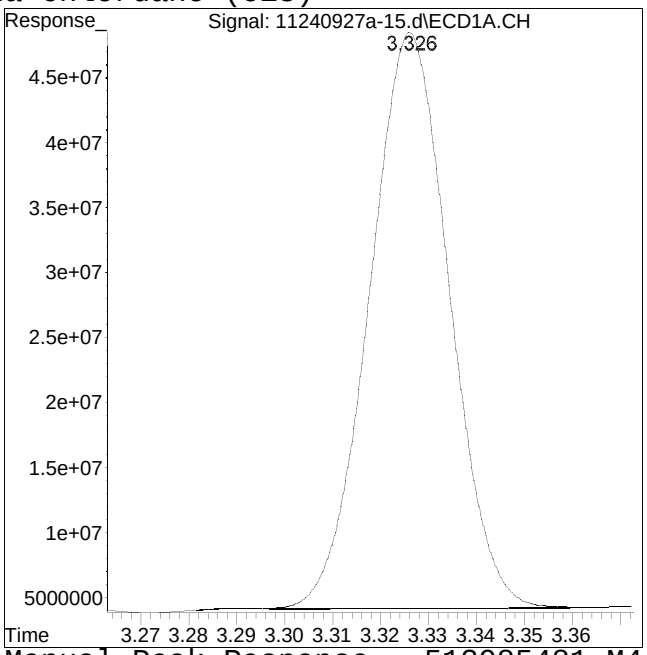
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #14: alpha-Chlordane (cis)



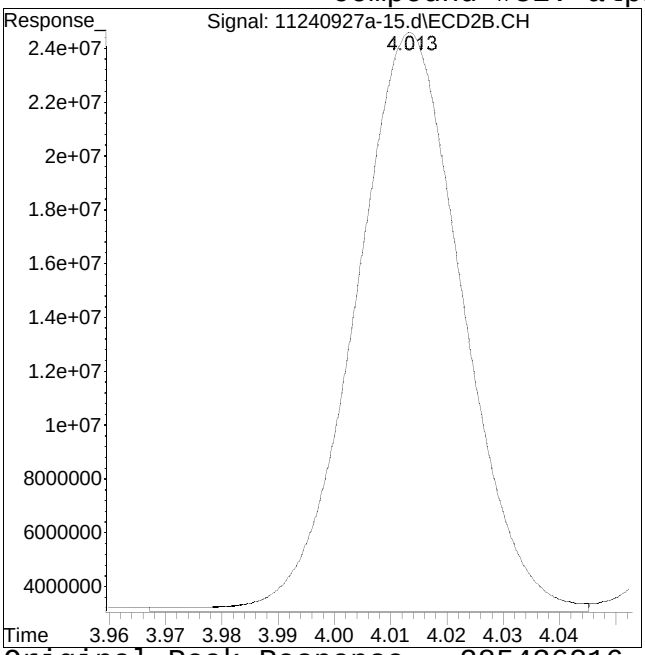


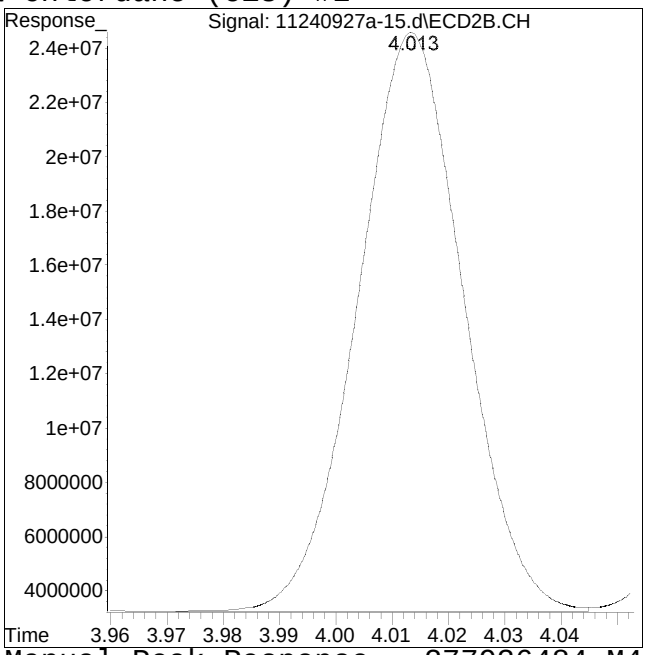
Original Peak Response = 525027957 Manual Peak Response = 512985481 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #52: alpha-Chlordane (cis) #2



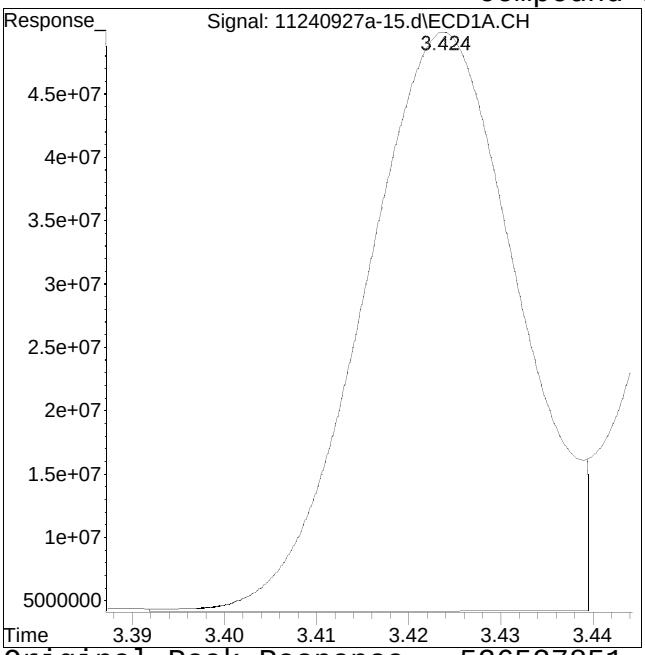


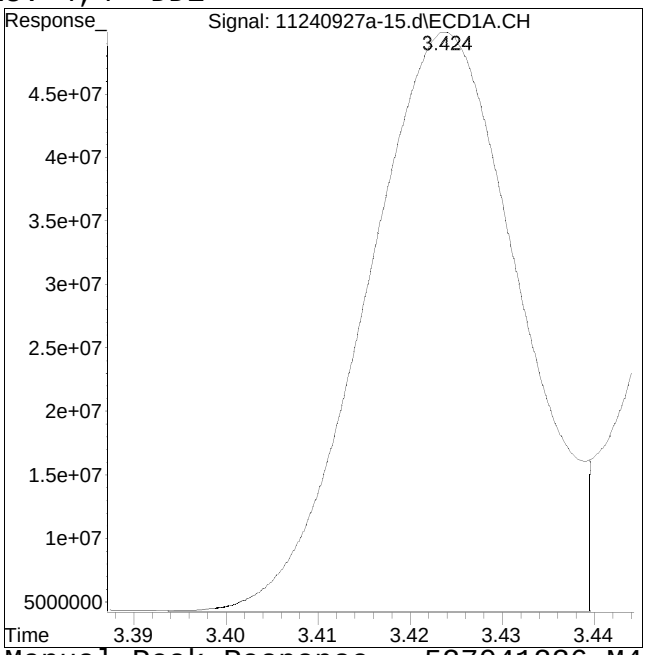
Original Peak Response = 285436216 Manual Peak Response = 277936484 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #15: 4,4'-DDE



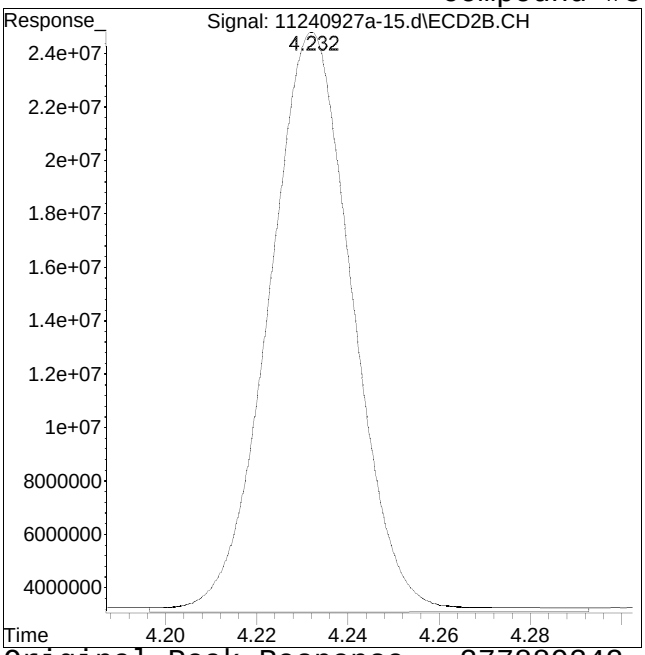


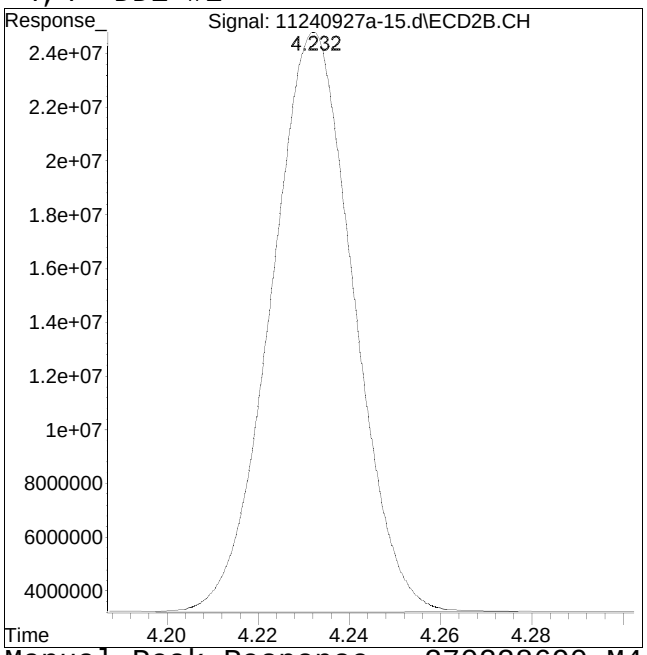
Original Peak Response = 526527851 Manual Peak Response = 527041236 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #53: 4,4'-DDE #2



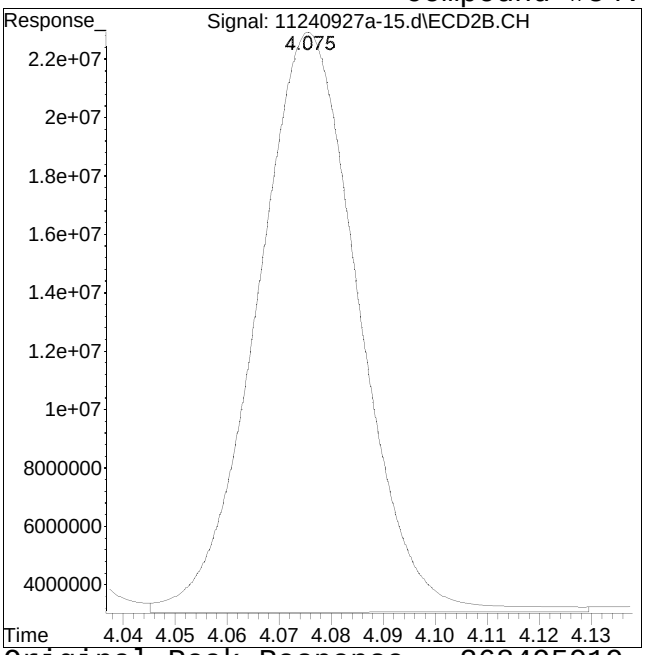


Original Peak Response = 277889342 Manual Peak Response = 270228690 M4
M4 = Poor automated baseline construction.

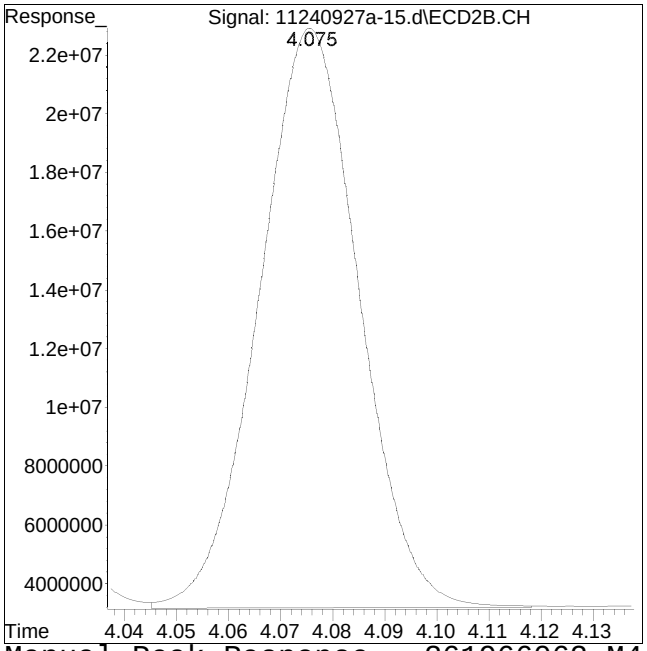
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #54: Endosulfan I #2



Original Peak Response = 268495919



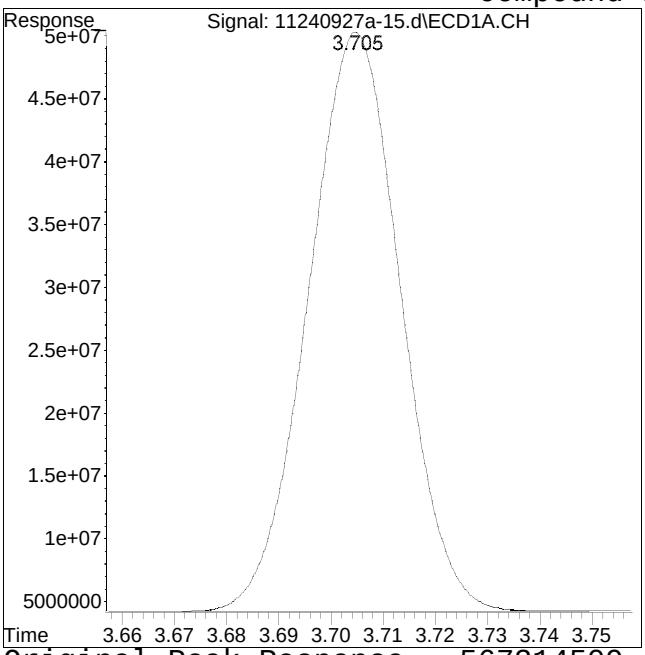
Manual Peak Response = 261966062 M4

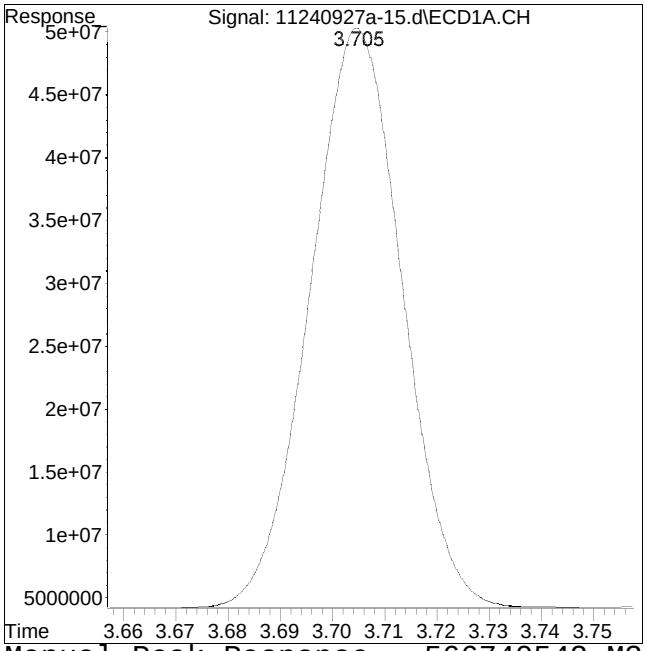
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #17: Dieldrin



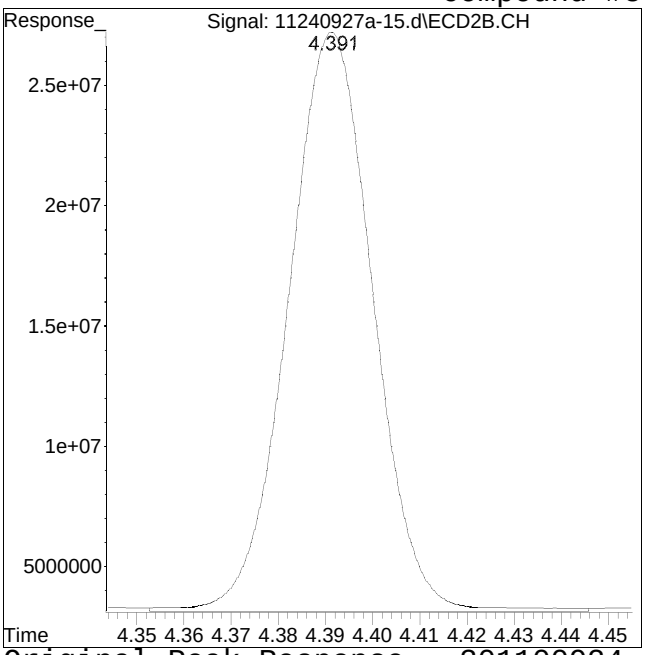


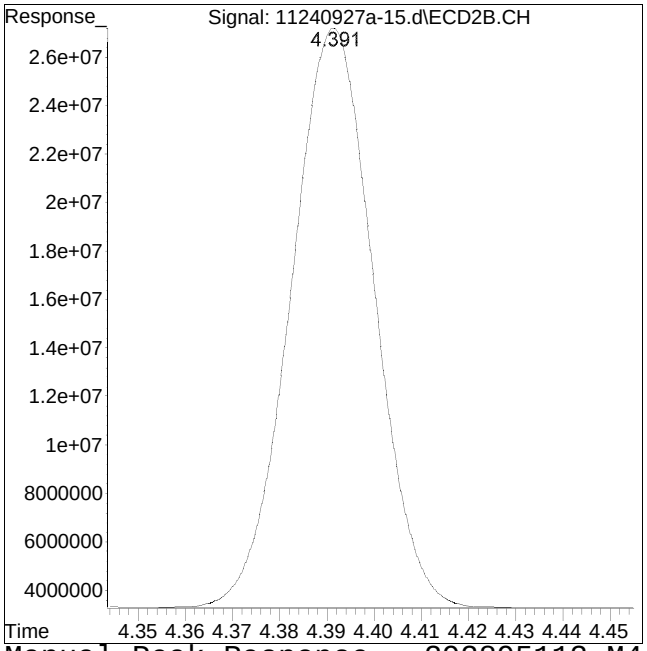
Original Peak Response = 567314509 Manual Peak Response = 566740542 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #55: Dieldrin #2



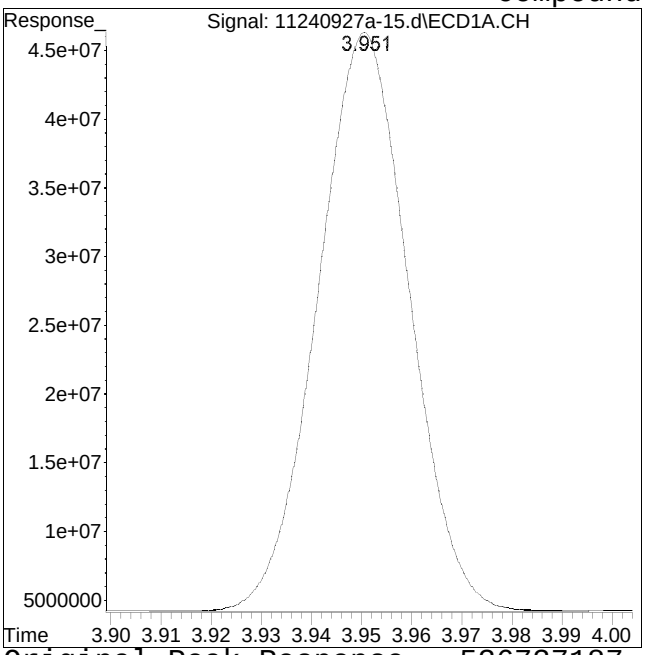


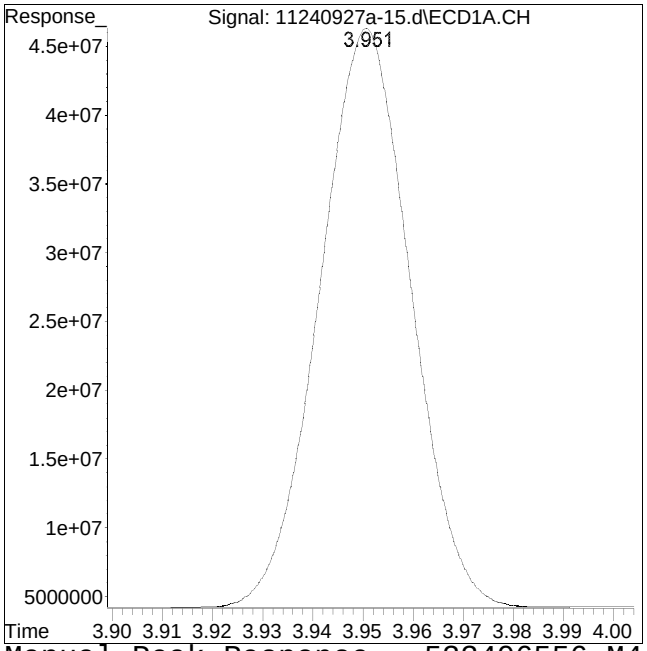
Original Peak Response = 301100924 Manual Peak Response = 292895113 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #18: Endrin



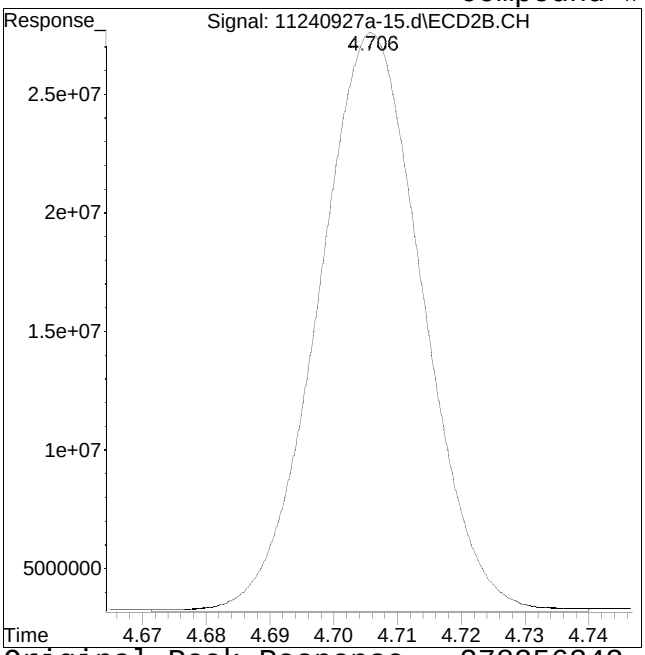


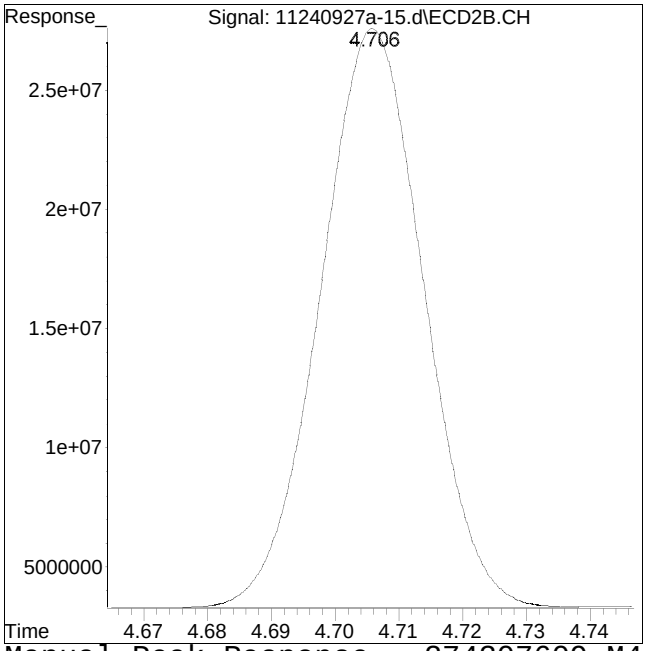
Original Peak Response = 536737187 Manual Peak Response = 533406556 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #56: Endrin #2



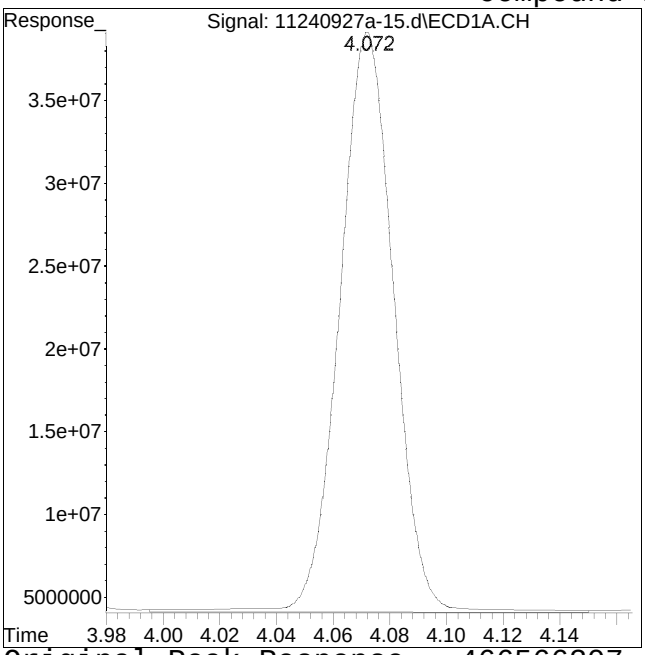


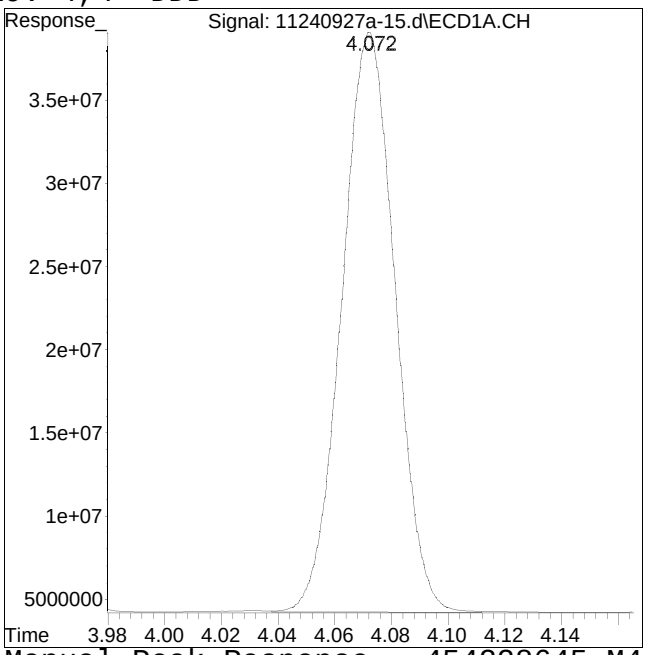
Original Peak Response = 278356343 Manual Peak Response = 274307609 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #19: 4,4'-DDD



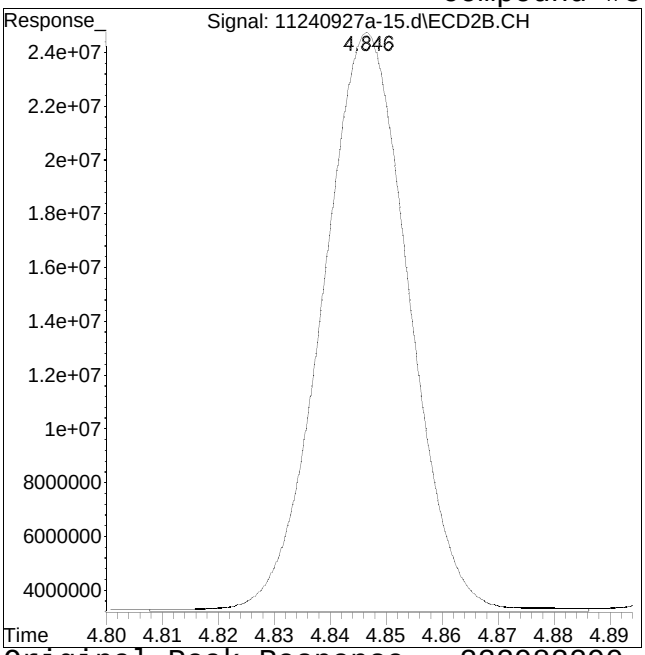


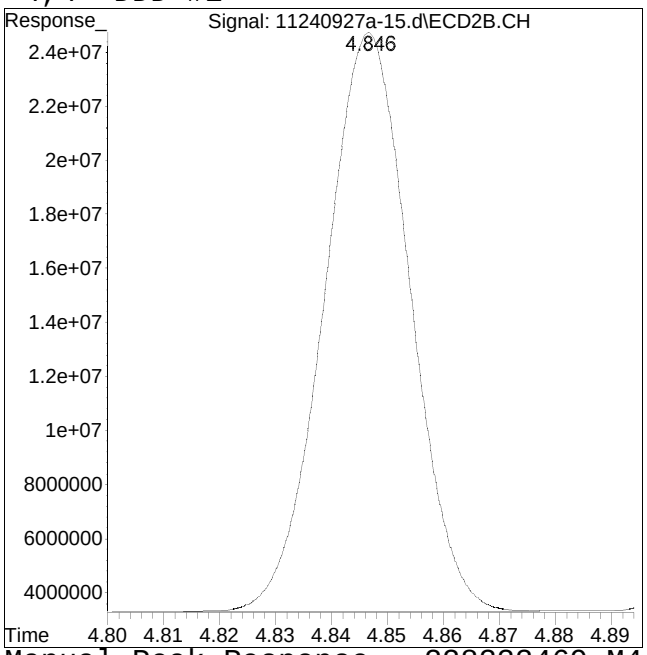
Original Peak Response = 466566307 Manual Peak Response = 454228645 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #57: 4,4'-DDD #2



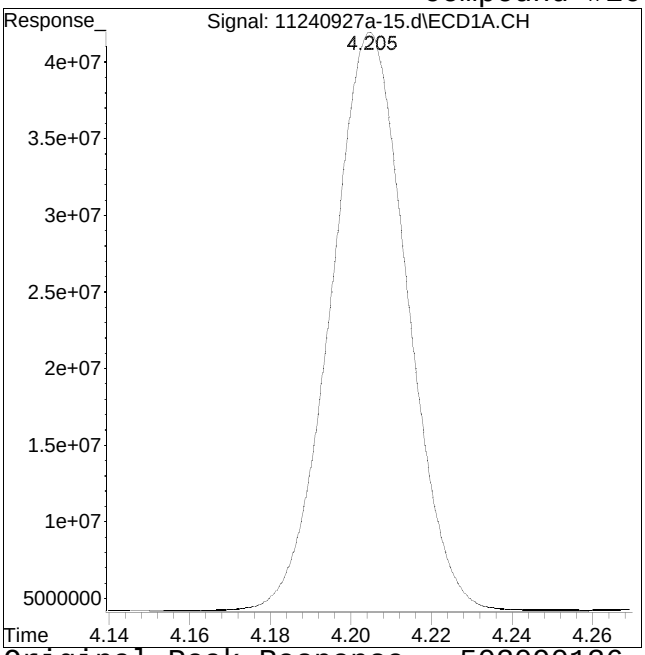


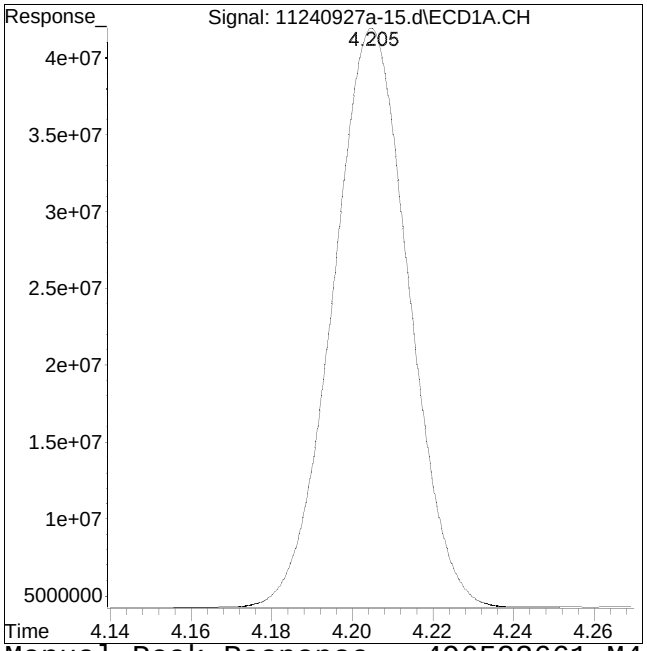
Original Peak Response = 232982290 Manual Peak Response = 228333469 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #20: Endosulfan II



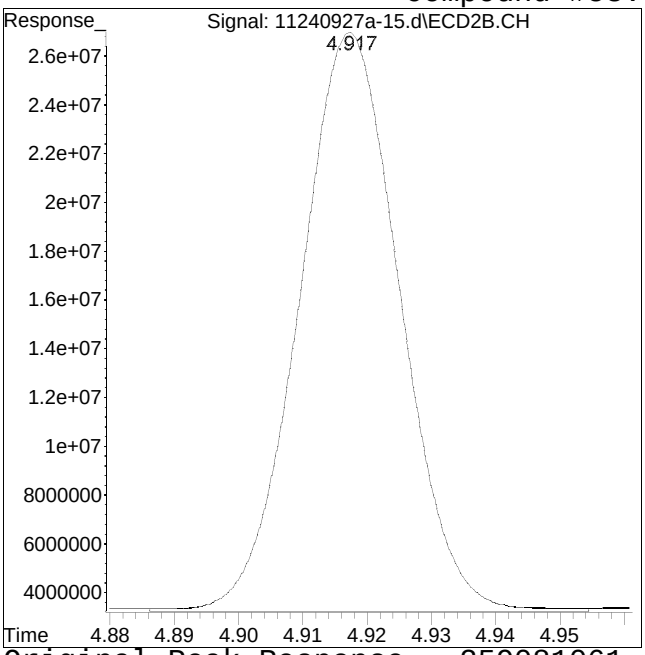


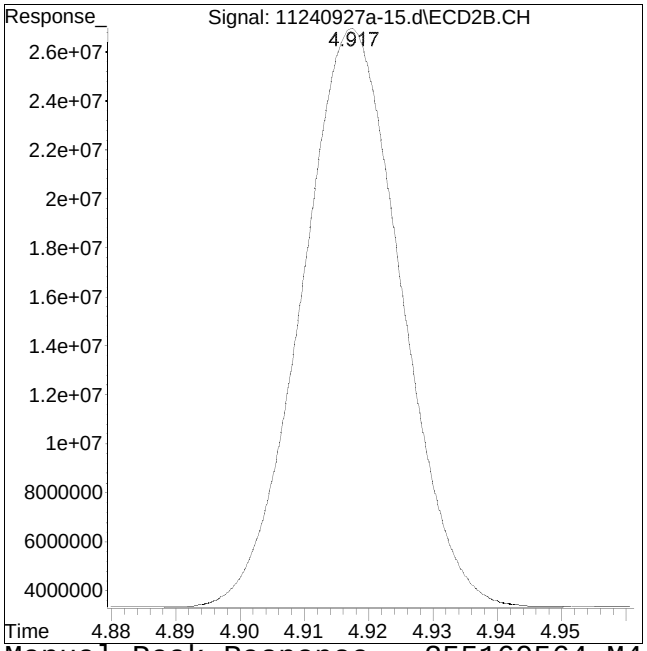
Original Peak Response = 503090136 Manual Peak Response = 496523661 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #58: Endosulfan II #2



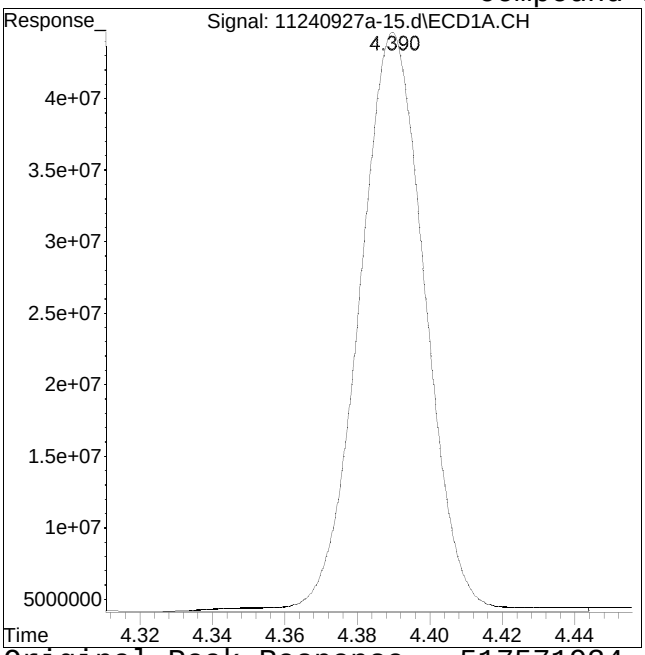


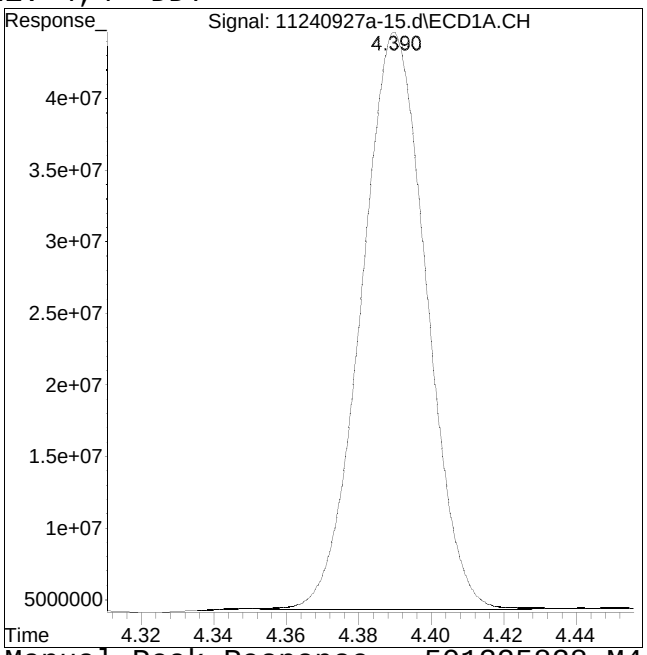
Original Peak Response = 259081061 Manual Peak Response = 255160564 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #21: 4,4'-DDT



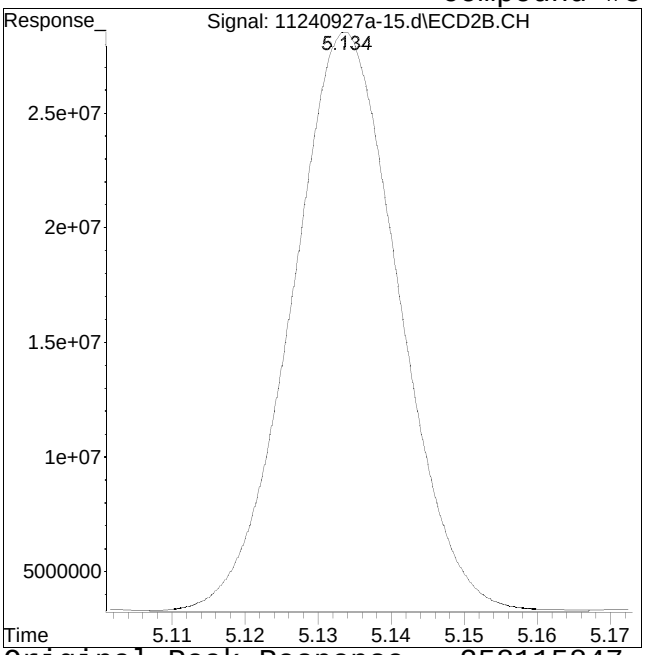


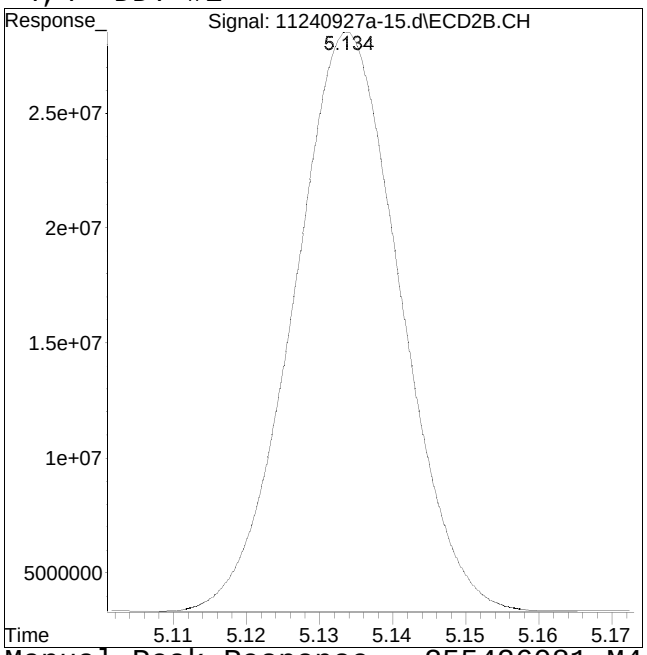
Original Peak Response = 517571934 Manual Peak Response = 501325828 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #59: 4,4'-DDT #2



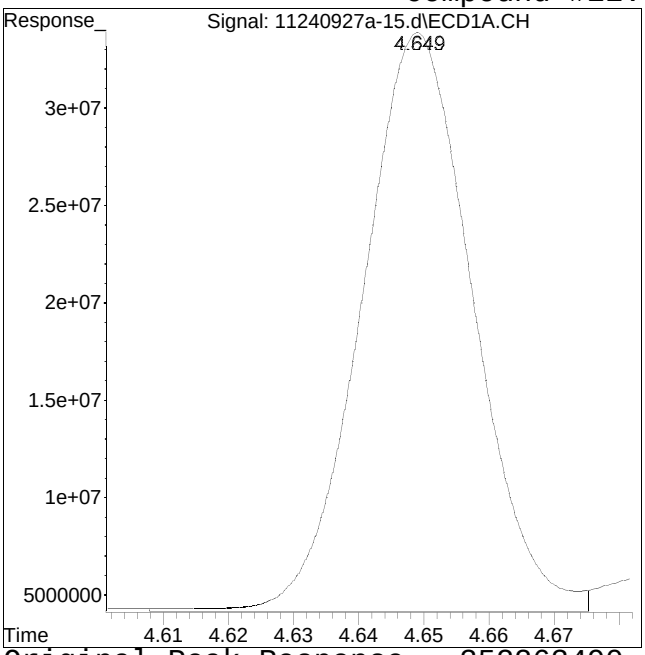


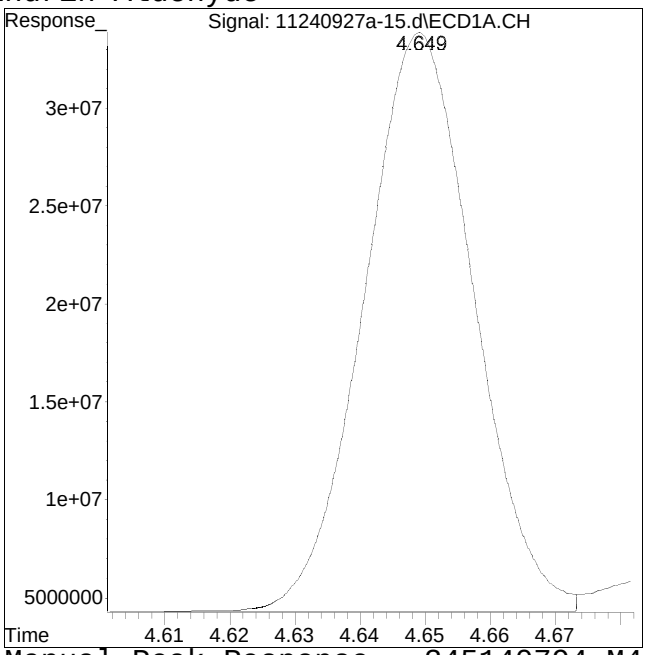
Original Peak Response = 258115847 Manual Peak Response = 255426081 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #22: Endrin Aldehyde



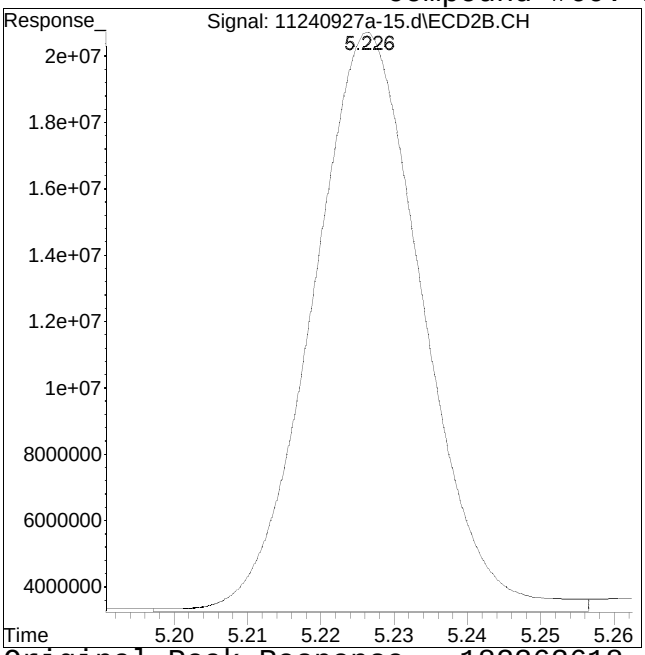


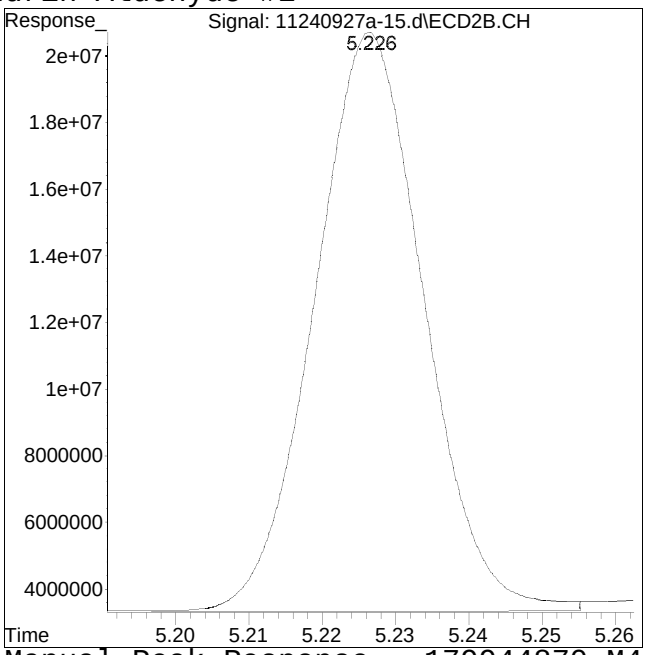
Original Peak Response = 352263490 Manual Peak Response = 345140794 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #60: Endrin Aldehyde #2



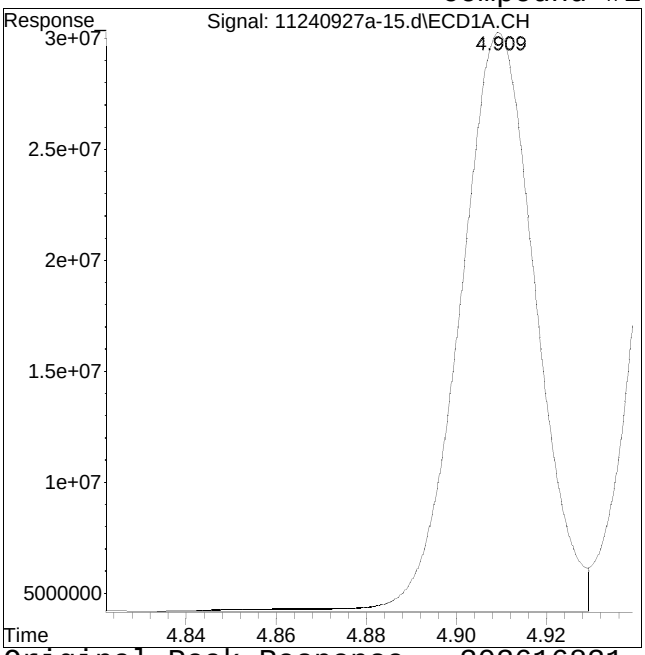


Original Peak Response = 182362618 Manual Peak Response = 179944870 M4
M4 = Poor automated baseline construction.

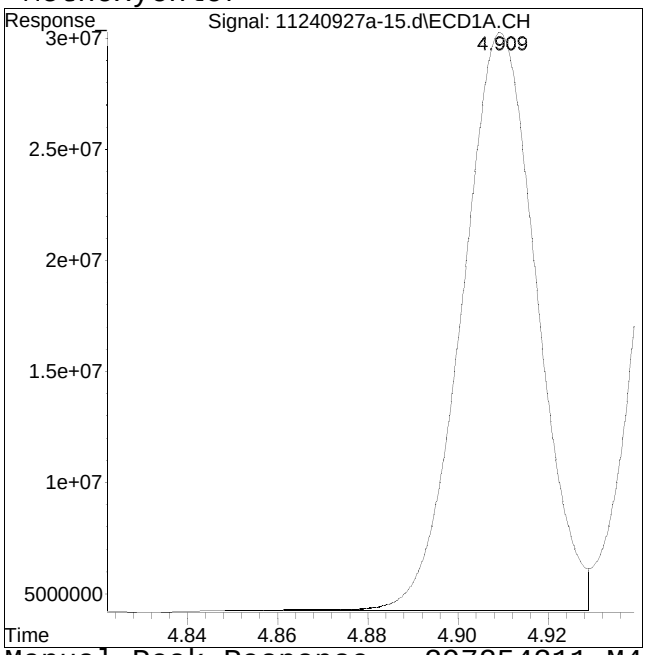
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #23: Methoxychlor



Original Peak Response = 303616831



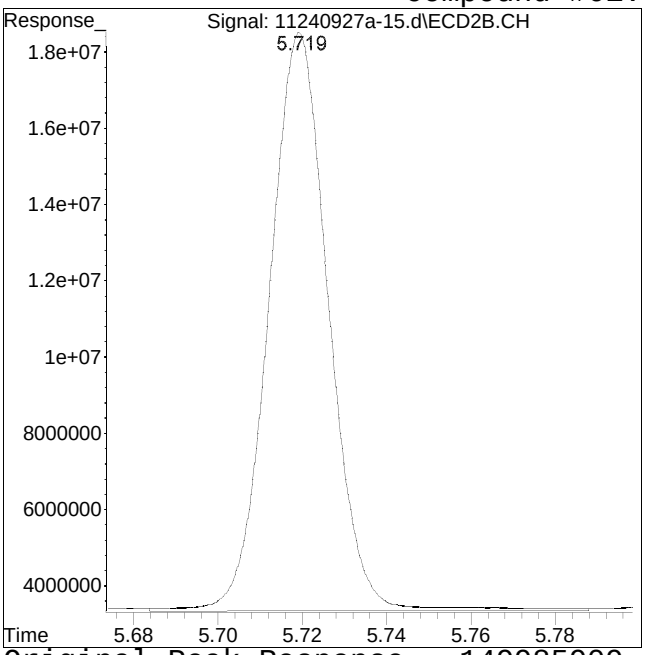
Manual Peak Response = 297254311 M4

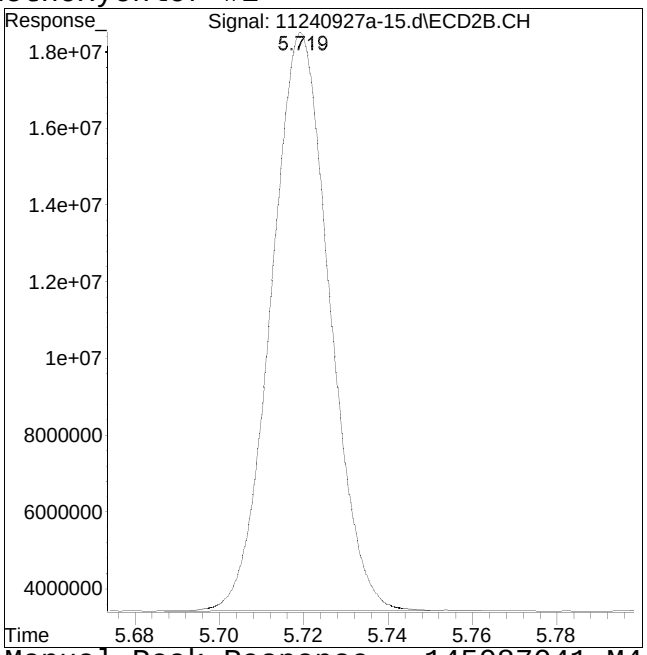
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #61: Methoxychlor #2



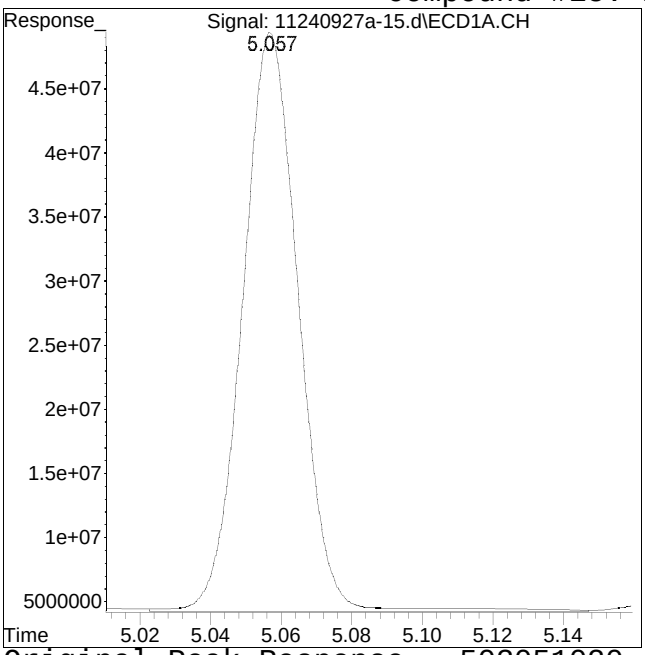


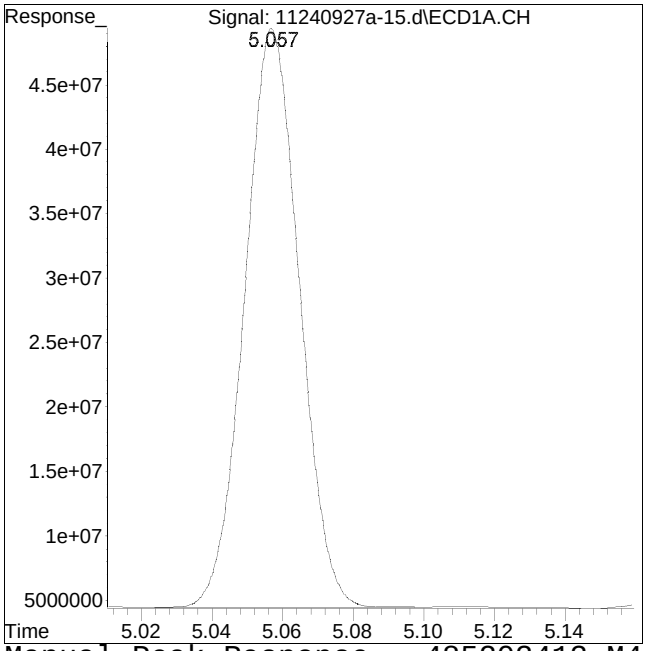
Original Peak Response = 149985909 Manual Peak Response = 145087041 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #25: Endosulfan Sulfate



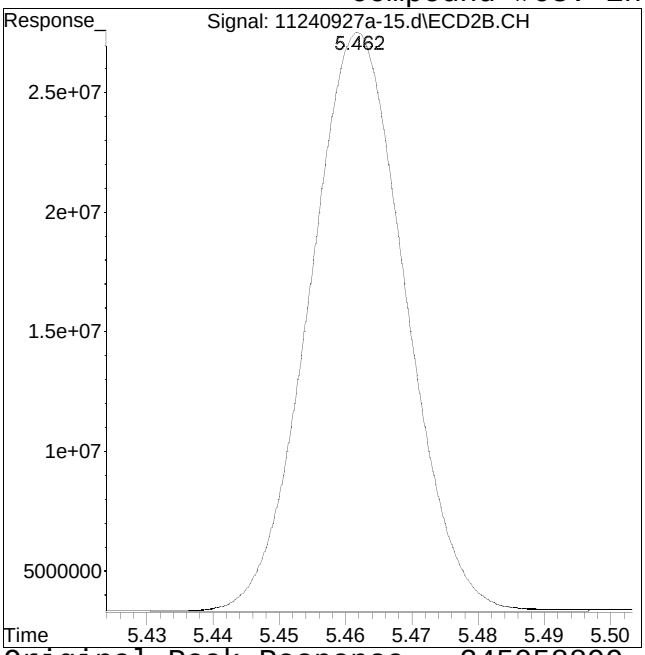


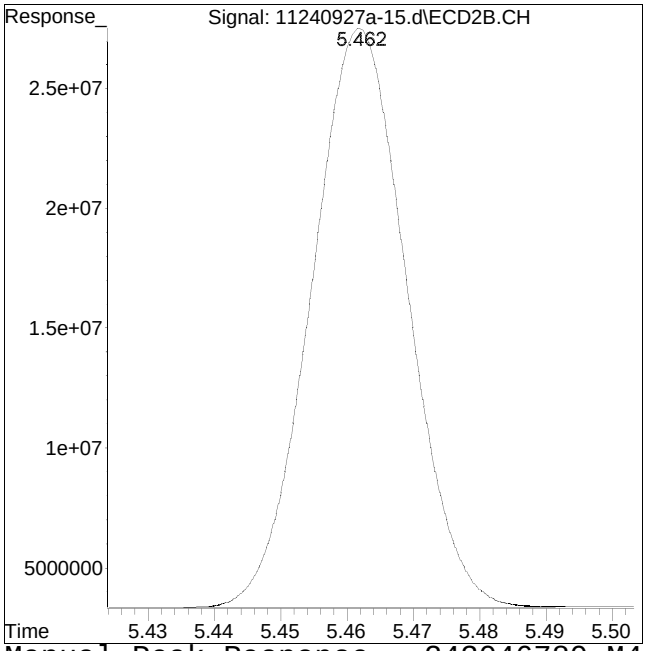
Original Peak Response = 503051020 Manual Peak Response = 485203413 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #63: Endosulfan Sulfate #2



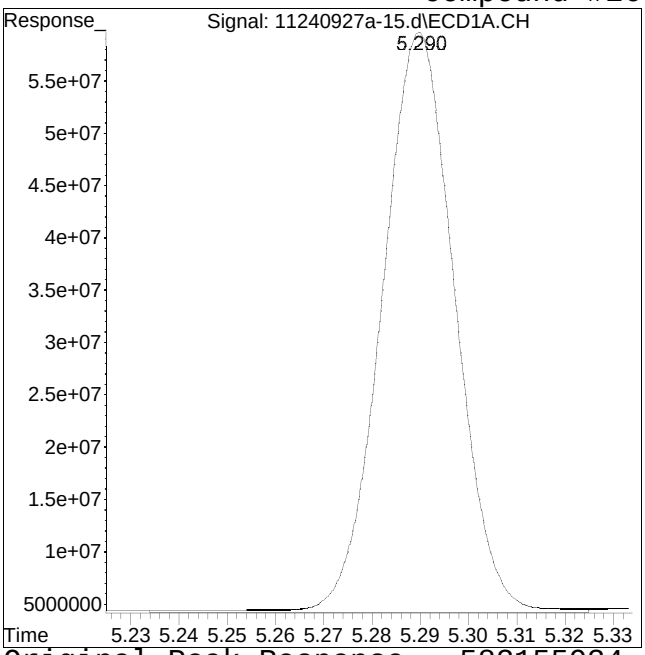


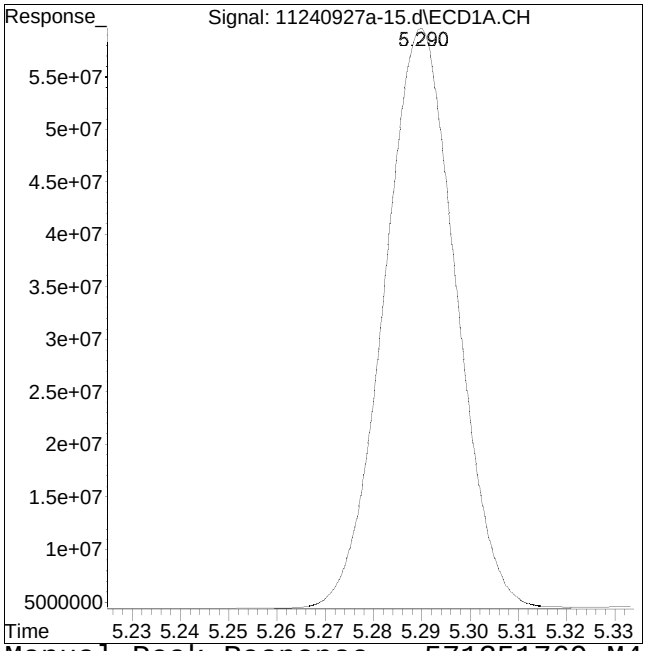
Original Peak Response = 245058899 Manual Peak Response = 243046780 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #26: Endrin Ketone



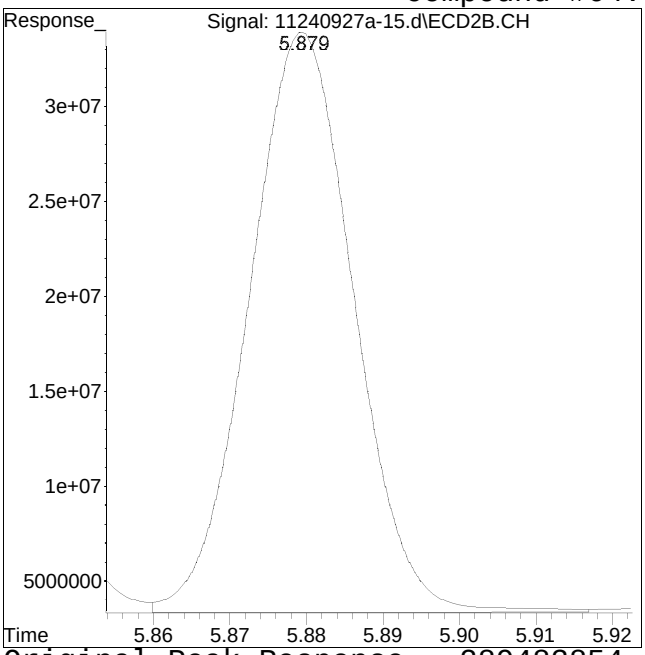


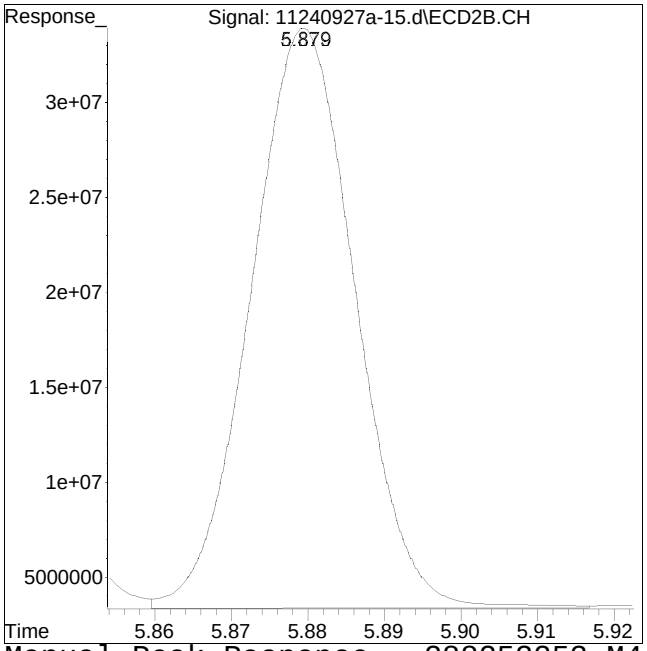
Original Peak Response = 583155934 Manual Peak Response = 571351769 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #64: Endrin Ketone #2



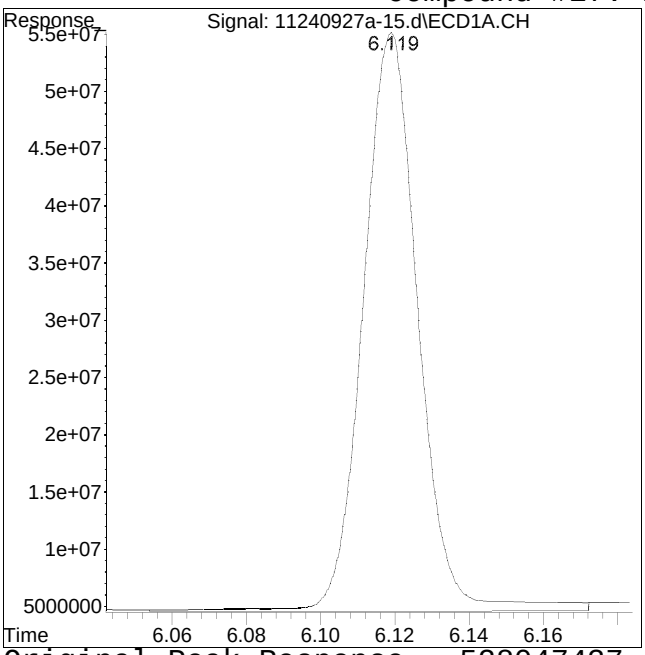


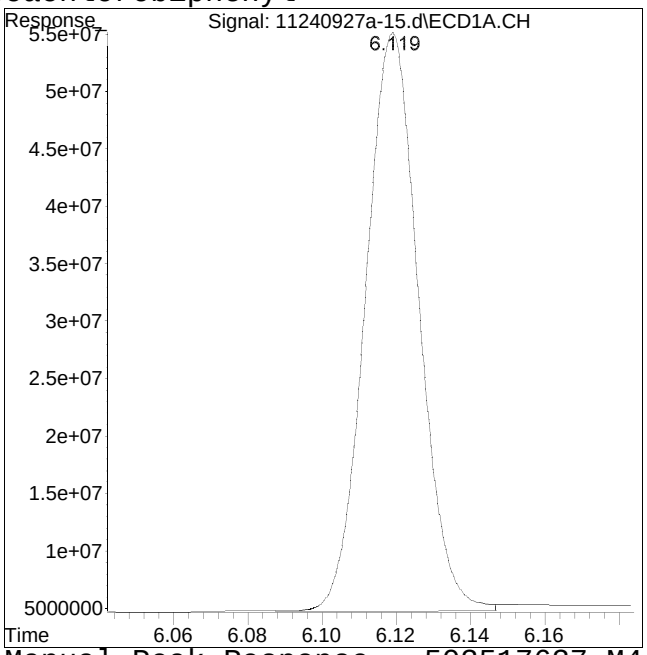
Original Peak Response = 289483854 Manual Peak Response = 288253253 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #27: Decachlorobiphenyl



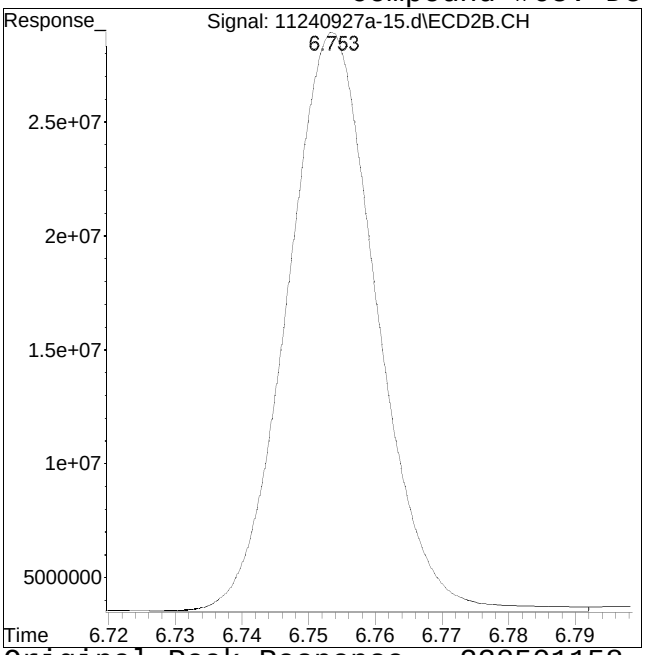


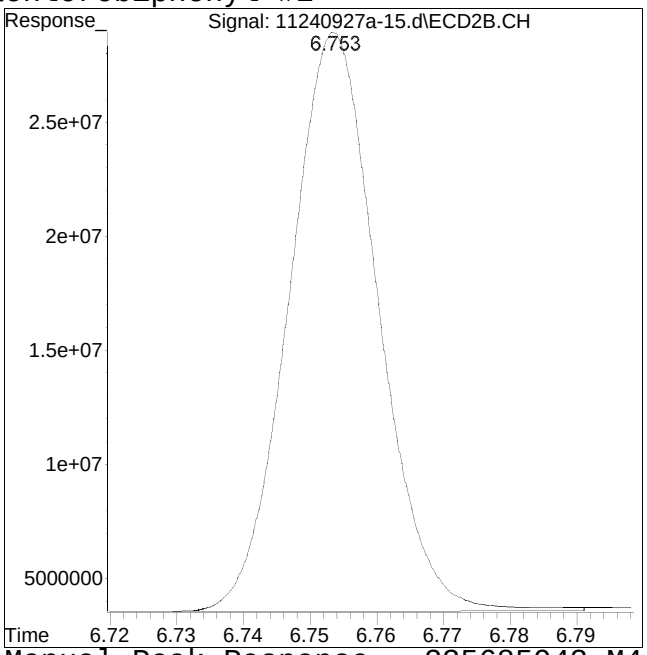
Original Peak Response = 528047437 Manual Peak Response = 503517637 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-15.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:08 Instrument : Pest 11
Sample : WG1977043-2,42,, 7043 714Quant Date : 9/27/2024 2:12 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 238501158 Manual Peak Response = 235685943 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 12:20
Operator : PEST11:jag
Sample : WG1977043-3,42,, 7043 7145 (Sig #1); WG1977148-3,42,, 7043 7145 (Sig #2)
Misc : wg1977176,WG1977043,ical21365
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 14:13:06 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240927A\11240927a-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.189	1.262	369.6E6	206.0E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 308061747				Recovery = 119.99%		
	Standard Area 1 : #2 = 216185320				Recovery = 95.30%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.516	1.709	442.8E6	242.4E6	28.825M4	26.414M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 57.65%		52.83%	
27) s	Decachlorobi	6.119	6.753	490.2E6	228.7E6	28.510M4	26.186M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 57.02%		52.37%	
Target Compounds							
4) t	alpha-BHC	1.810	2.098	673.1E6	352.5E6	31.169M4	26.411M4
5) t	gamma-BHC (l	2.001	2.368	621.0E6	324.3E6	30.097M4	25.564
6) t	beta-BHC	2.055	2.432	274.3E6	145.0E6	29.548M4	27.628M4
7) t	delta-BHC	2.175	2.684	586.0E6	294.2E6	28.843M4	23.440M4
8) t	Heptachlor	2.329	2.741	622.6E6	310.1E6	31.876M4	23.554M4
9) t	Aldrin	2.559	3.044	550.9E6	286.4E6	30.212M4	24.222M4
12) t	Heptachlor E	3.078	3.633	540.4E6	277.4E6	30.832M4	23.612M4
13) t	gamma-Chlord	3.198	3.847	552.1E6	285.5E6	34.671M4	26.411M4
14) t	alpha-Chlord	3.327	4.014	520.7E6	281.9E6	28.953M4	23.658M4
15) t	4,4'-DDE	3.424	4.233	539.0E6	275.2E6	30.591M4	24.867M4
16) t	Endosulfan I	3.455	4.076	511.2E6	265.9E6	30.978M4	24.222M4
17) t	Dieldrin	3.705	4.392	578.0E6	298.7E6	34.440M4	27.309M4
18) t	Endrin	3.951	4.707	548.6E6	280.9E6	32.187M4	25.315
19) t	4,4'-DDD	4.073	4.847	463.1E6	238.8E6	33.776M4	26.740M4
20) t	Endosulfan I	4.205	4.918	509.5E6	261.0E6	32.753M4	26.093M4
21) t	4,4'-DDT	4.390	5.134	510.8E6	259.9E6	32.640M4	25.225M4

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 12:20
Operator : PEST11:jag
Sample : WG1977043-3,42,, 7043 7145 (Sig #1); WG1977148-3,42,, 7043 7145 (Sig #2)
Misc : wg1977176,WG1977043,ical21365
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 14:13:06 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240927A\11240927a-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t Endrin Aldeh	4.649	5.227	356.5E6	186.6E6	27.198M4	24.045M4
23) t Methoxychlor	4.910	5.719	301.0E6	147.1E6	34.396M4	25.332M4
25) t Endosulfan S	5.058	5.462	500.4E6	250.5E6	33.517M4	25.350M4
26) t Endrin Keton	5.290	5.879	585.6E6	295.3E6	33.472M4	28.423M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

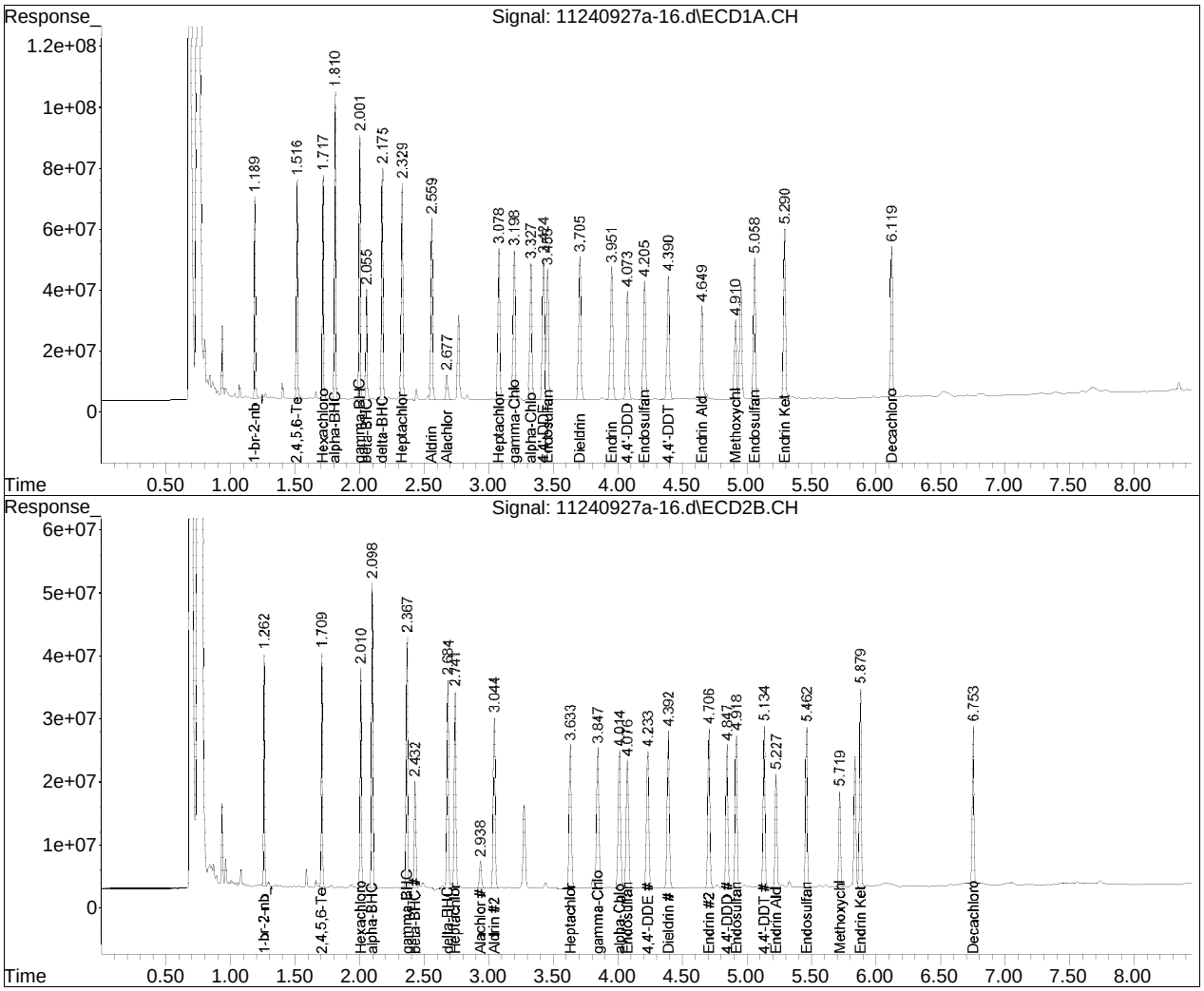
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only1\2024\240927A\11240927a-03.d•

Data Path : I:\PEST\Pest11\2024\240927A\
Data File : 11240927a-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2024 12:20
Operator : PEST11:jag
Sample : WG1977043-3,42,, 7043 7145 (Sig #1); WG1977148-3,42,, 7043 7145
Misc : wg1977176,WG1977043,ical21365
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 14:13:06 2024
Quant Method : I:\PEST\Pest11\2024\240927A\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Fri Sep 27 10:12:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

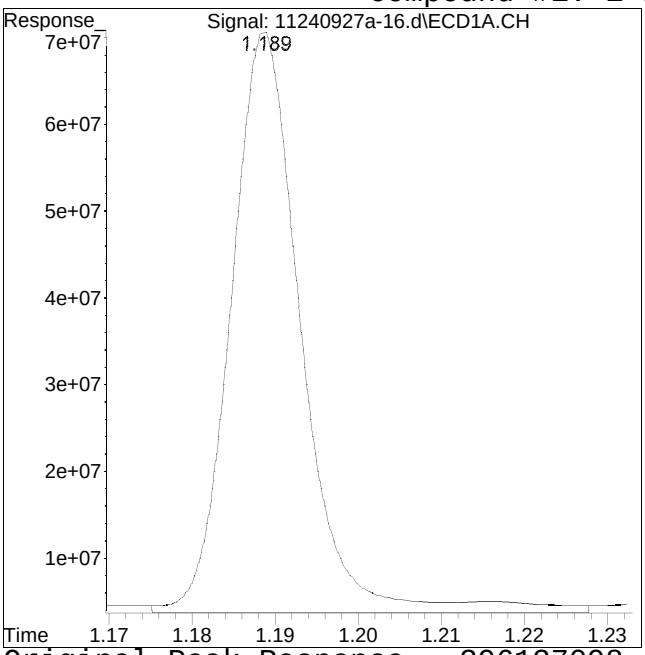
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



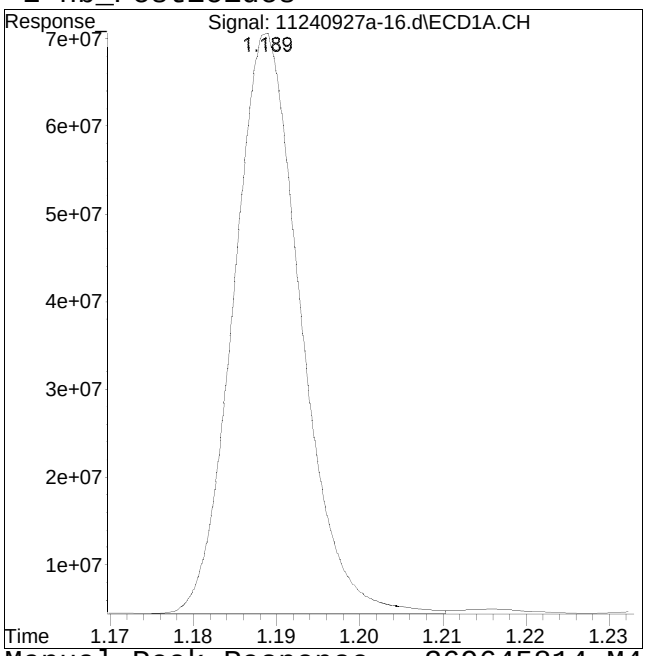
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 396137098



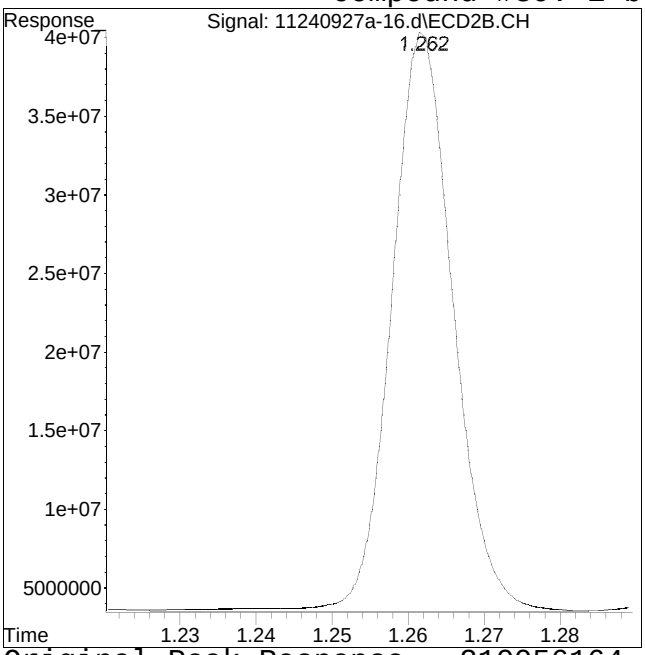
Manual Peak Response = 369645814 M4

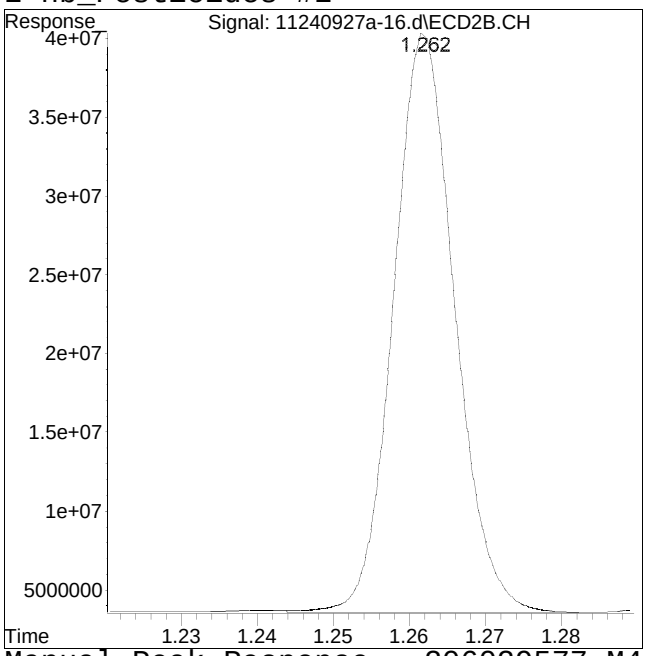
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #39: 1-br-2-nb_Pesticides #2



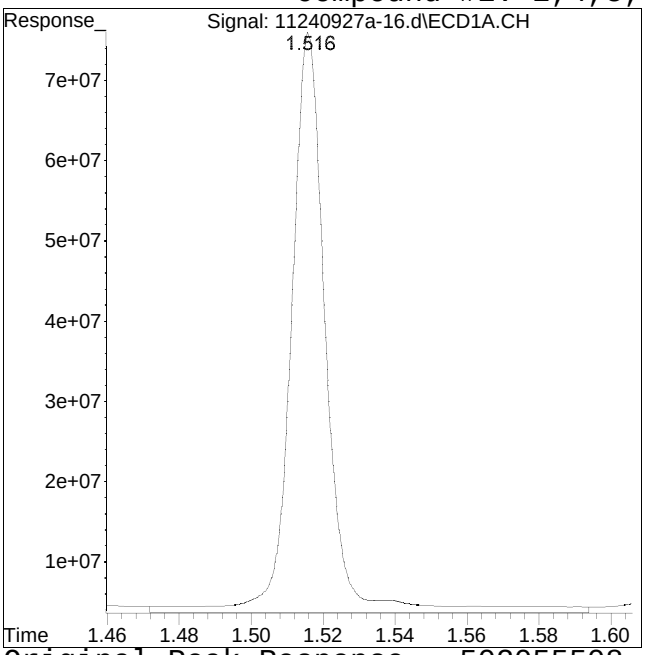


Original Peak Response = 210056164 Manual Peak Response = 206029577 M4
M4 = Poor automated baseline construction.

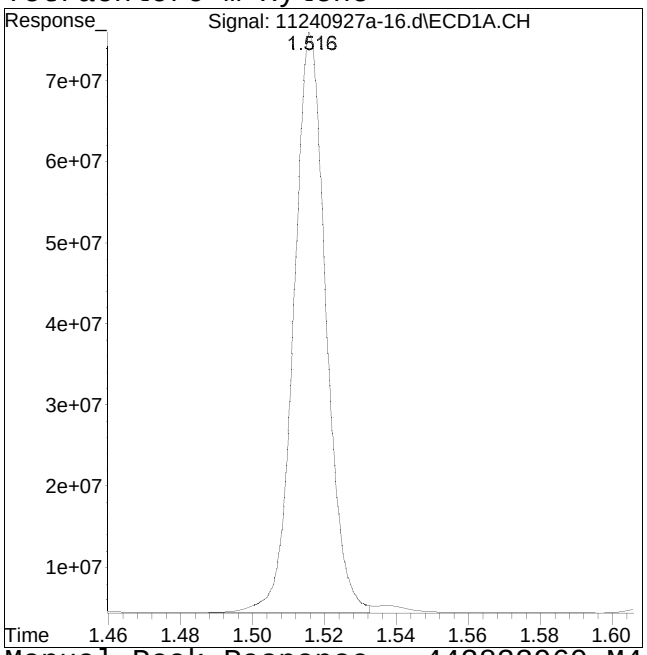
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 502055508

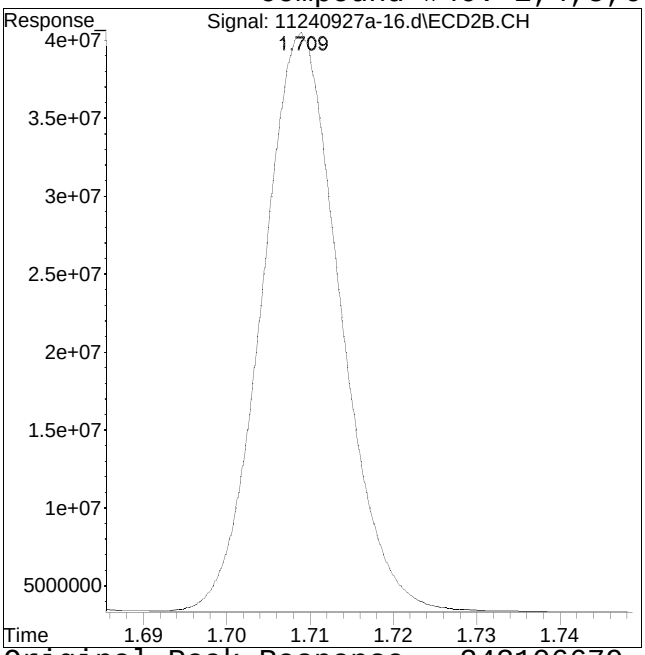


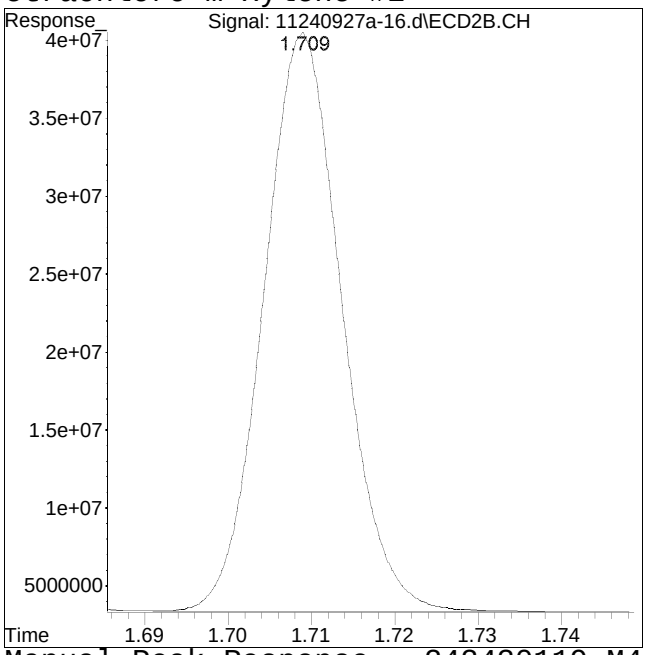
Manual Peak Response = 442833960 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



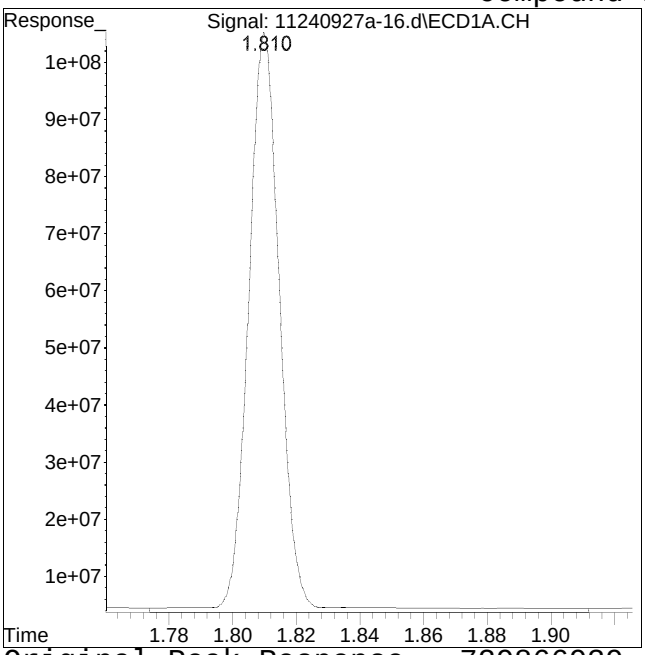


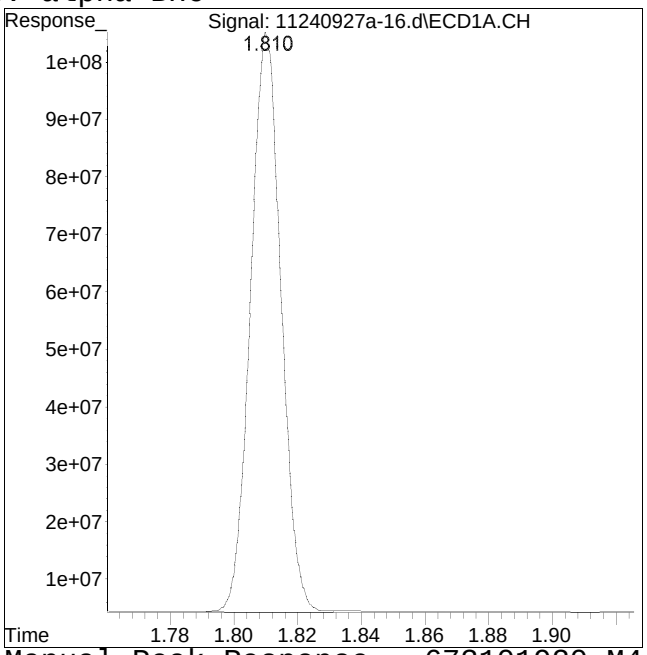
Original Peak Response = 243106679 Manual Peak Response = 242430119 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #4: alpha-BHC



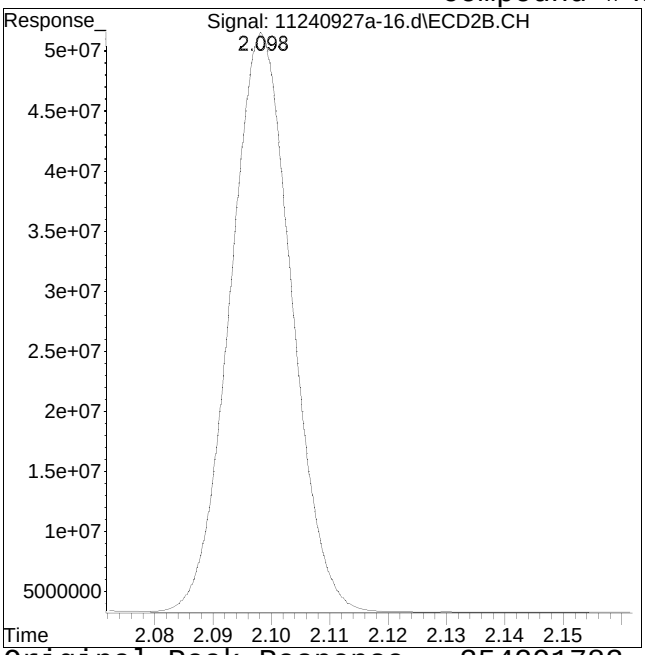


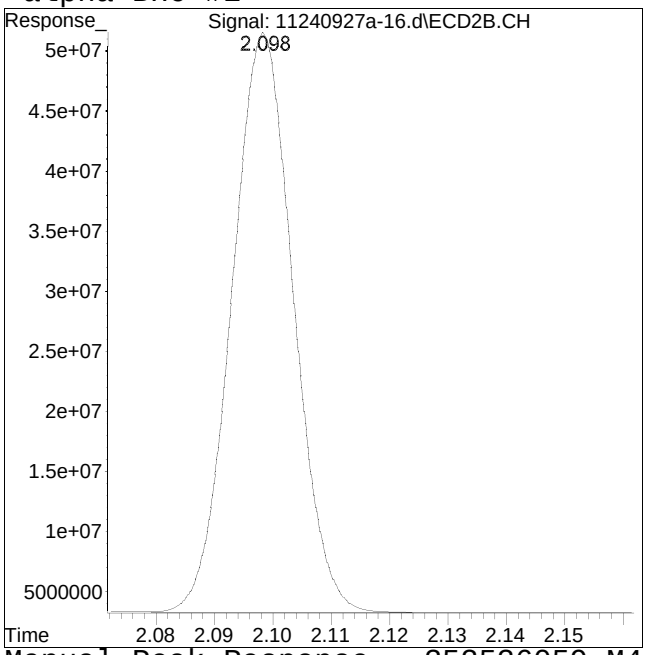
Original Peak Response = 729866939 Manual Peak Response = 673101920 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #42: alpha-BHC #2



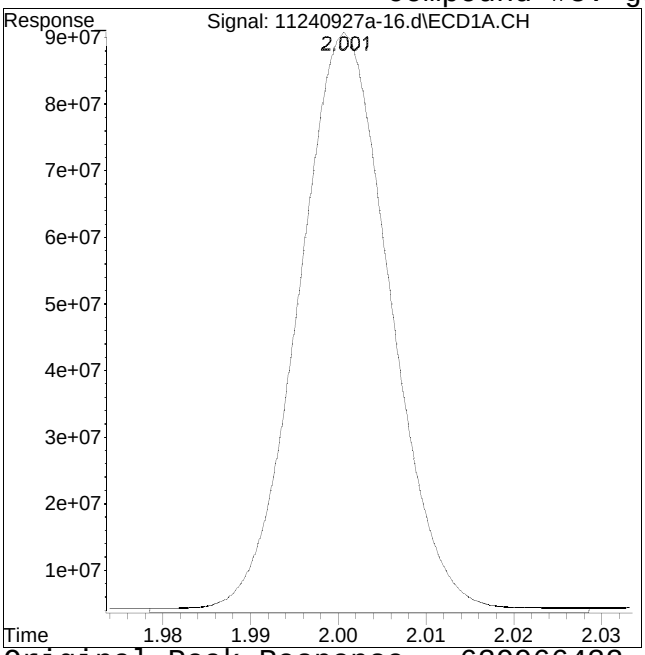


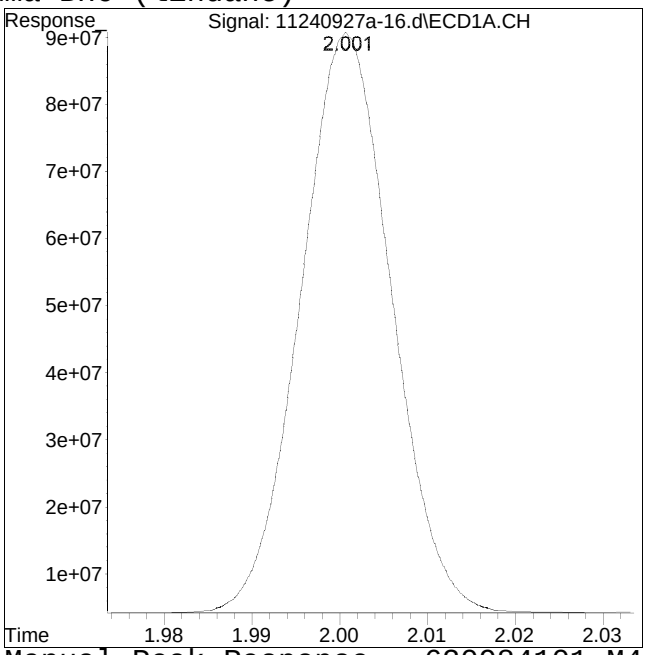
Original Peak Response = 354291783 Manual Peak Response = 352536059 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #5: gamma-BHC (lindane)



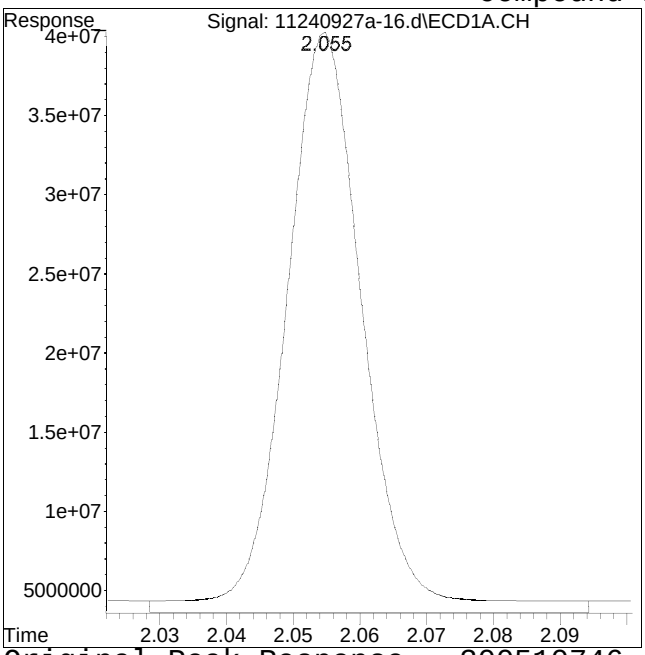


Original Peak Response = 639966432 Manual Peak Response = 620984101 M4
M4 = Poor automated baseline construction.

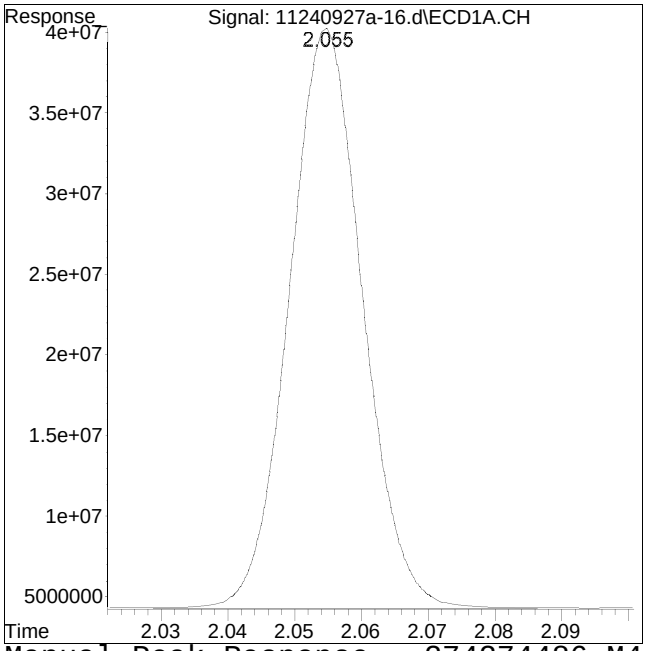
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #6: beta-BHC



Original Peak Response = 300510746



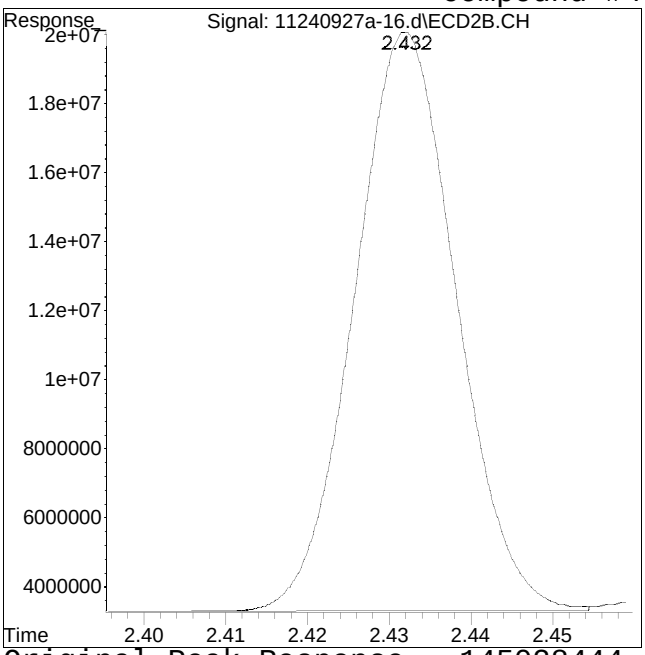
Manual Peak Response = 274274486 M4

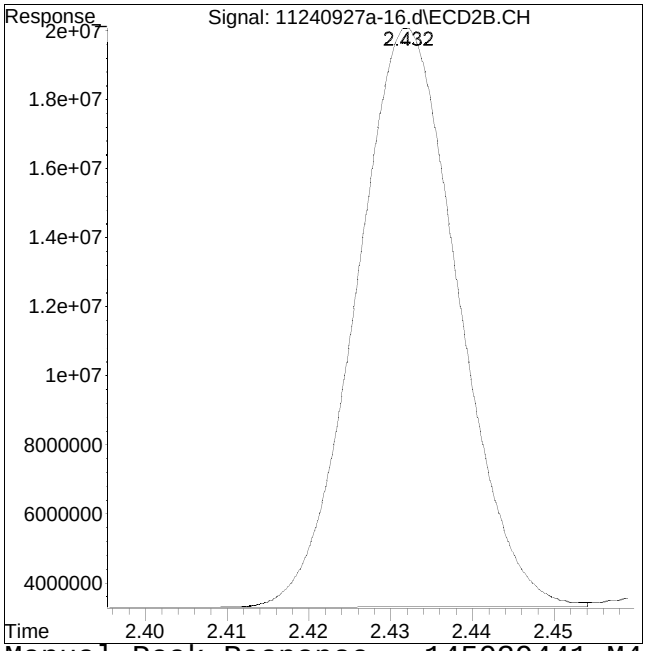
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #44: beta-BHC #2



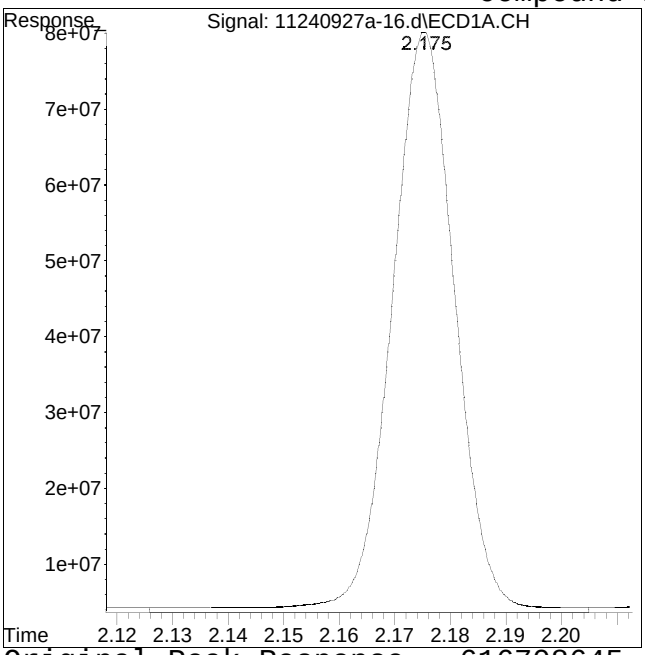


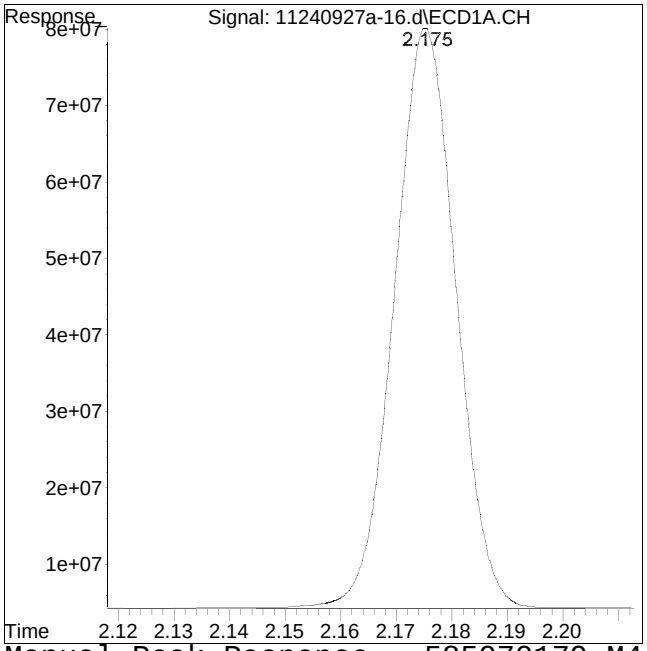
Original Peak Response = 145028444 Manual Peak Response = 145039441 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #7: delta-BHC



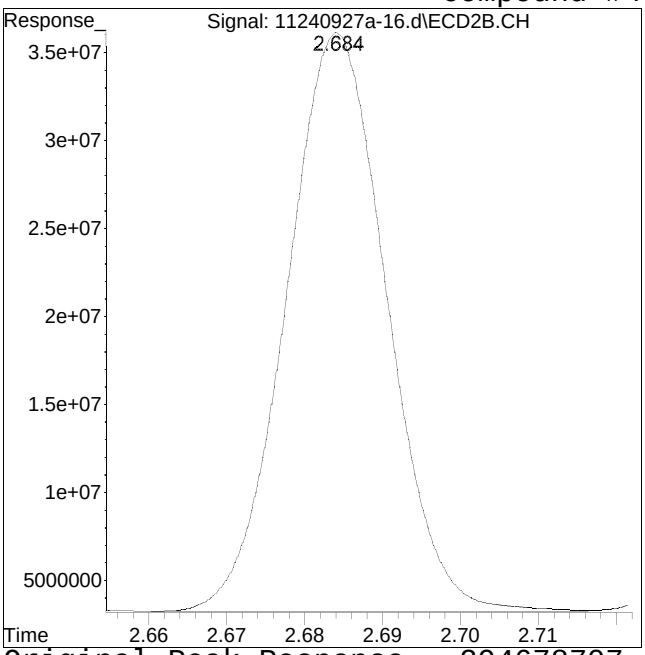


Original Peak Response = 616708645 Manual Peak Response = 585970179 M4
M4 = Poor automated baseline construction.

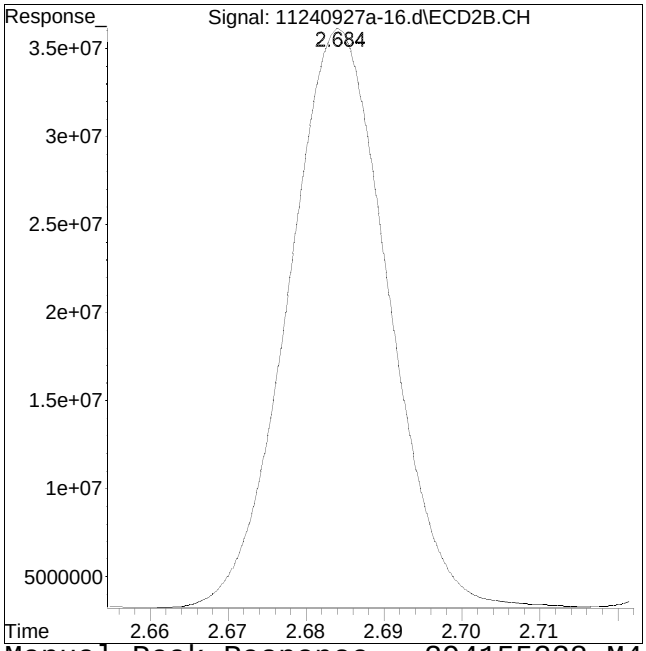
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #45: delta-BHC #2



Original Peak Response = 294678707



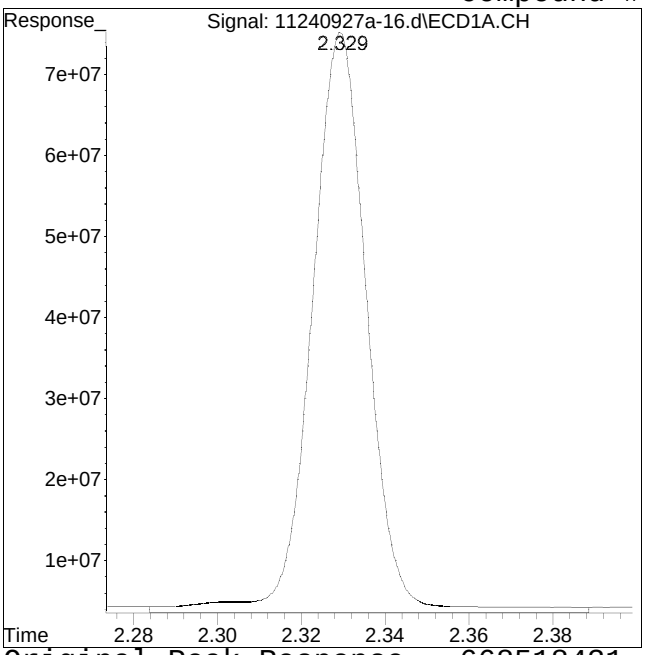
Manual Peak Response = 294155228 M4

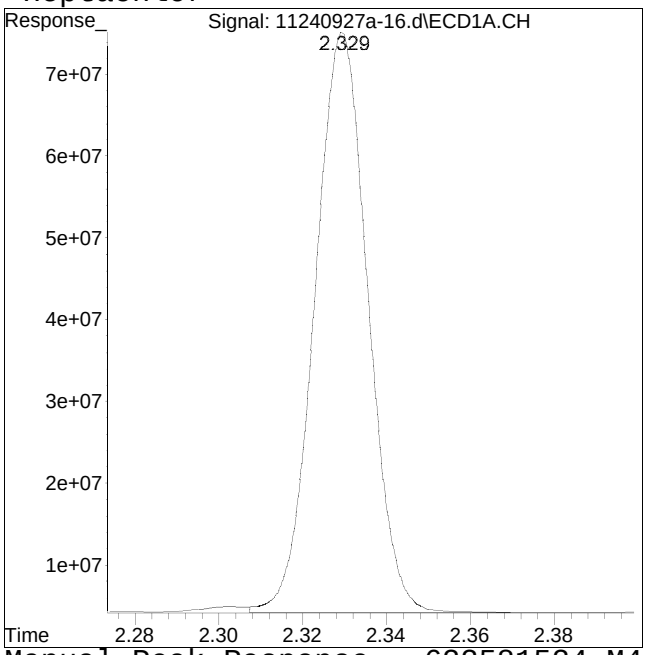
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #8: Heptachlor



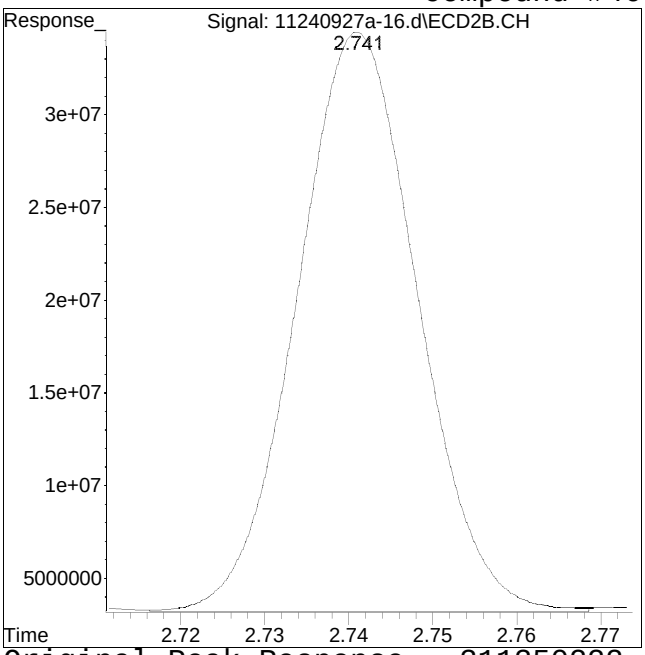


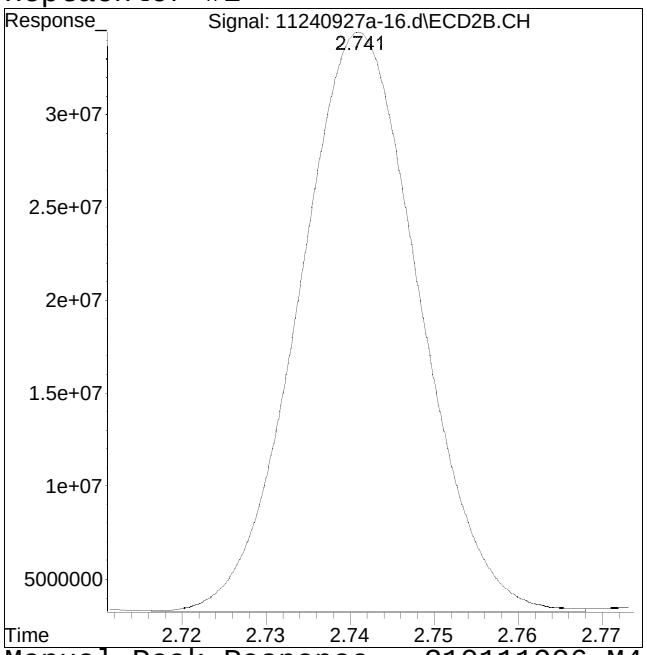
Original Peak Response = 668518431 Manual Peak Response = 622581524 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #46: Heptachlor #2



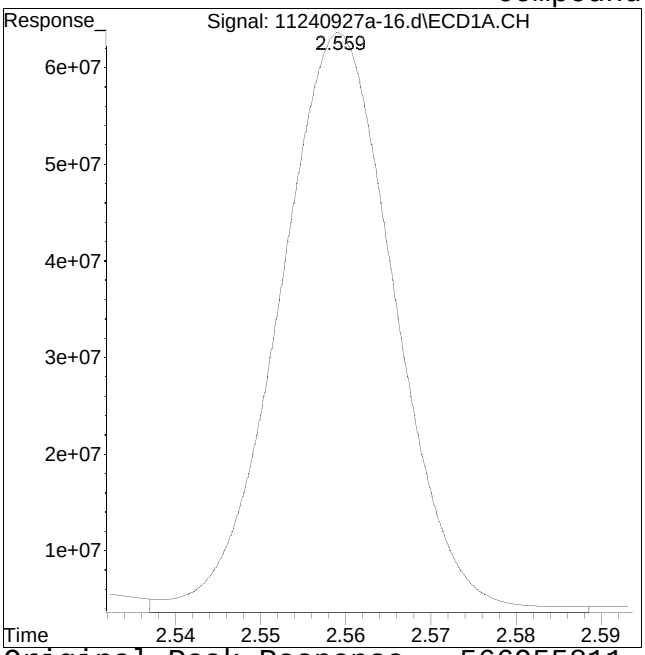


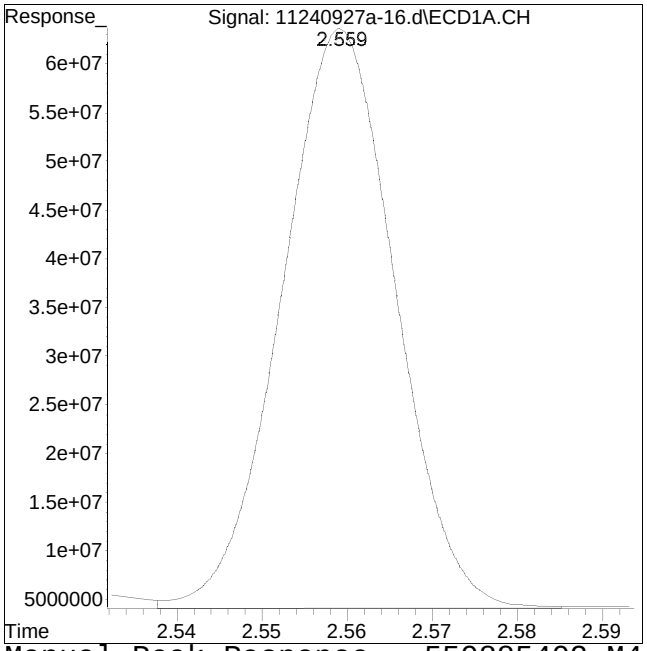
Original Peak Response = 311350222 Manual Peak Response = 310111996 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #9: Aldrin



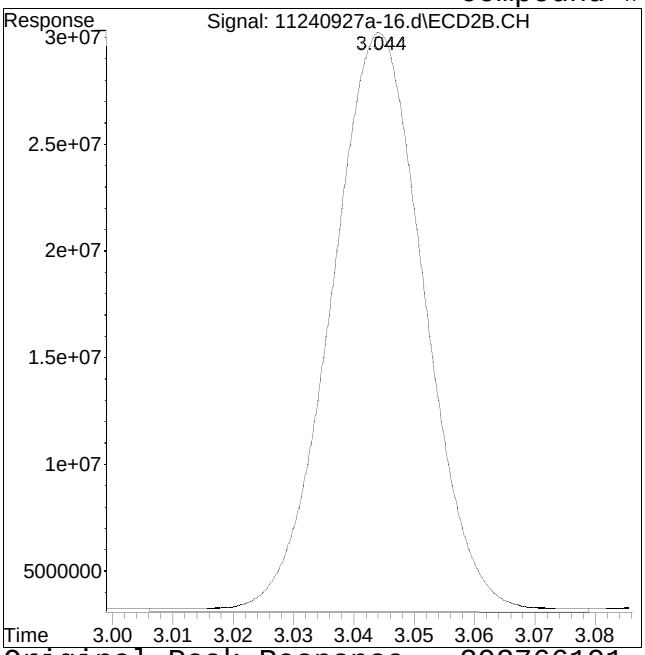


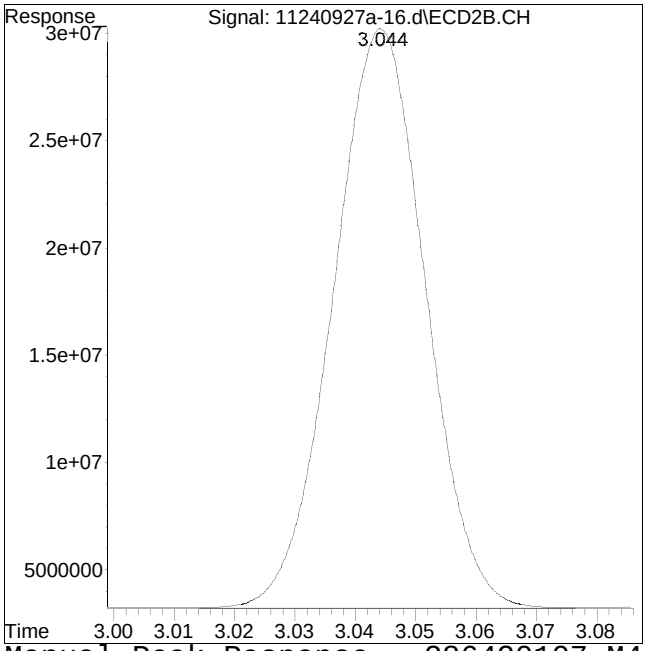
Original Peak Response = 566955811 Manual Peak Response = 550885402 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #47: Aldrin #2



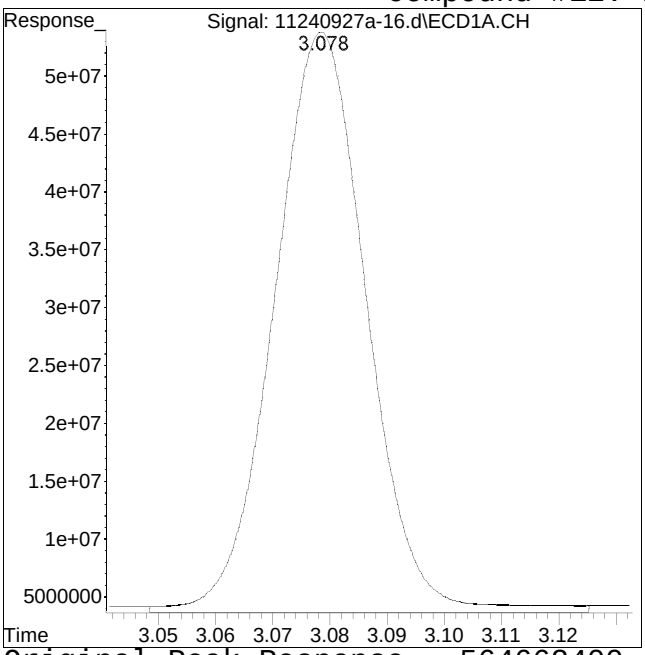


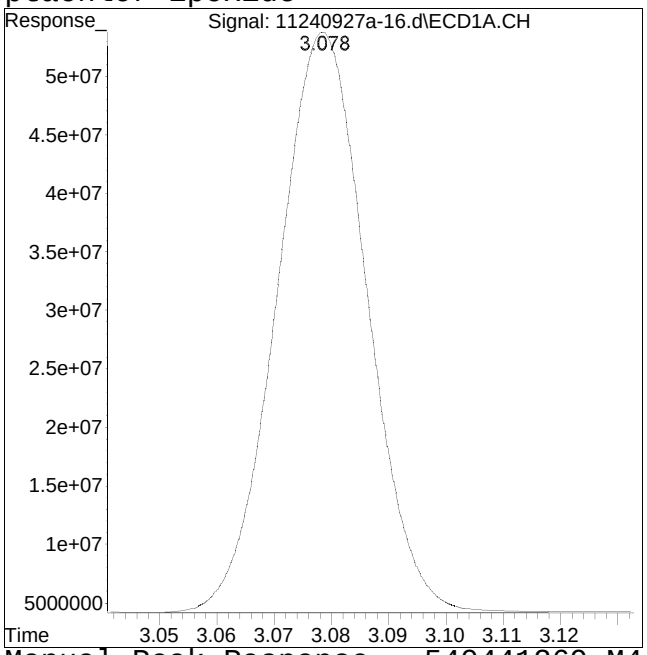
Original Peak Response = 292766191 Manual Peak Response = 286420107 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #12: Heptachlor Epoxide



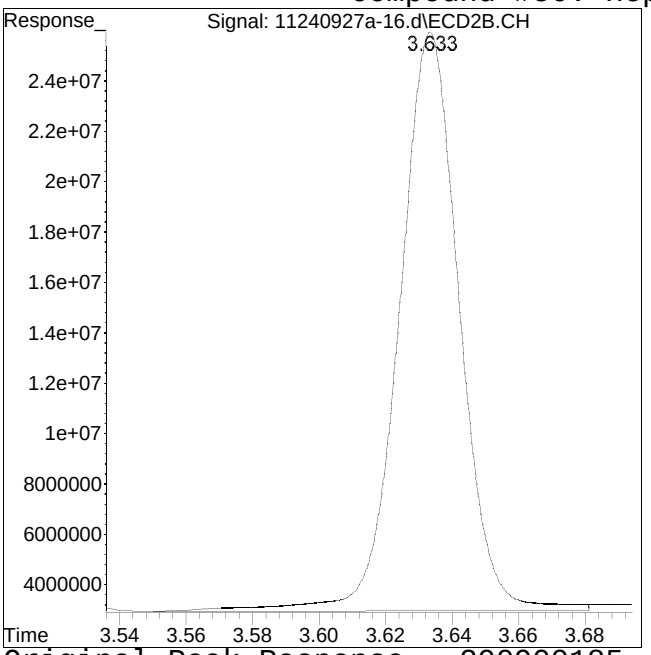


Original Peak Response = 564662400 Manual Peak Response = 540441269 M4
M4 = Poor automated baseline construction.

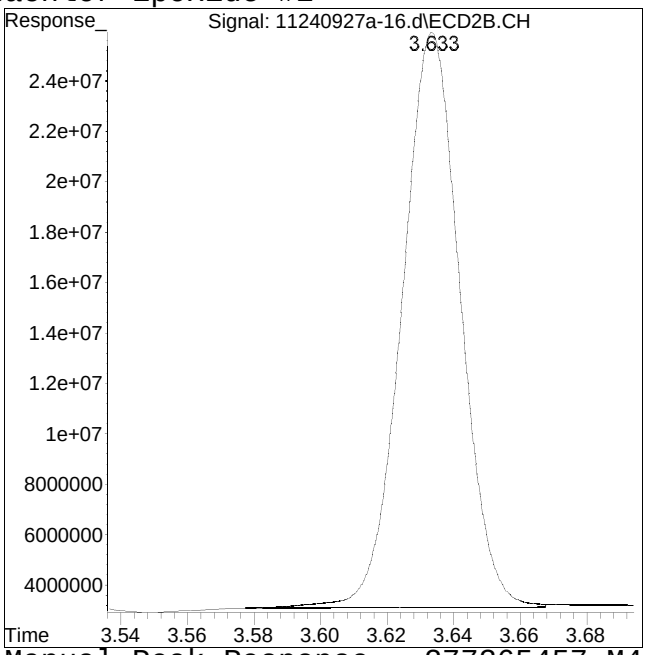
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 290900185



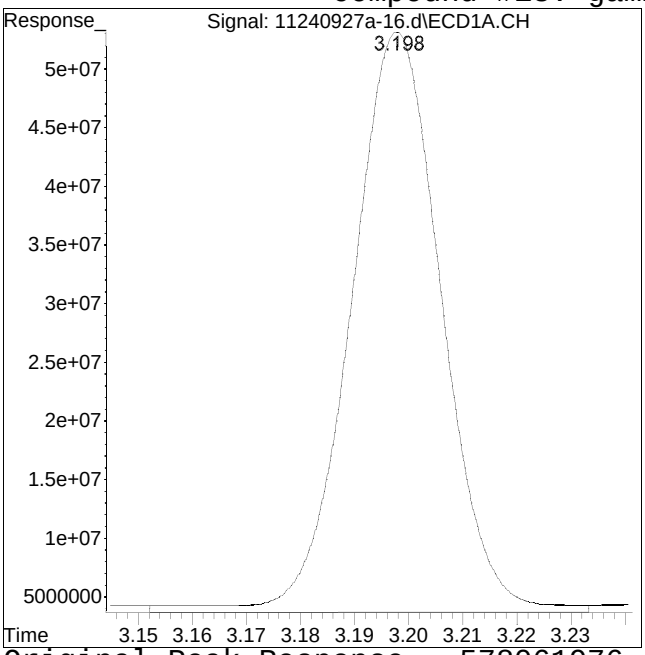
Manual Peak Response = 277365457 M4

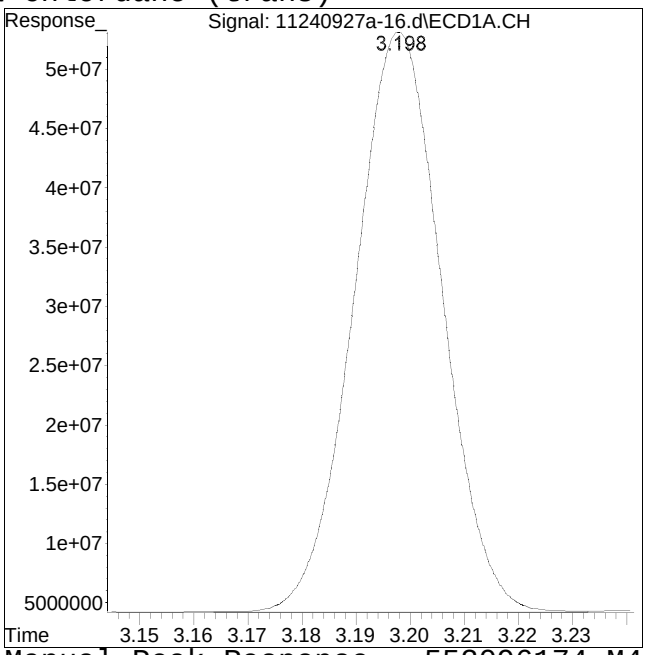
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #13: gamma-Chlordane (trans)



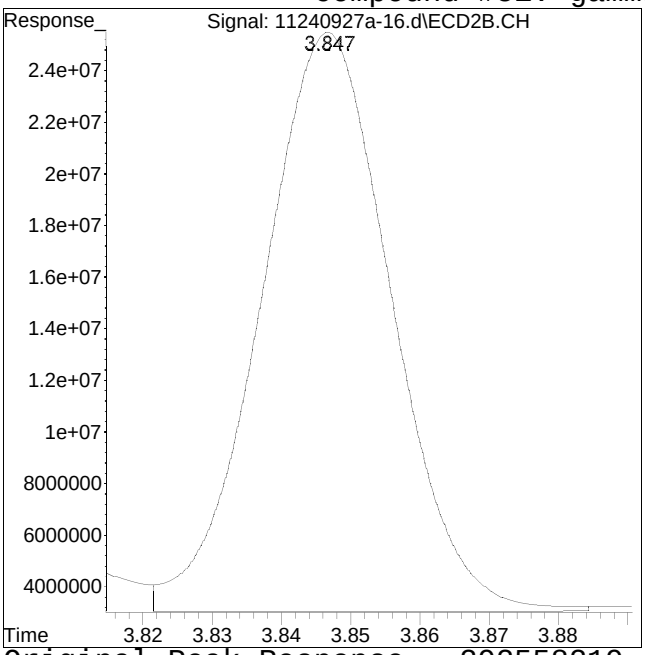


Original Peak Response = 578061976 Manual Peak Response = 552096174 M4
M4 = Poor automated baseline construction.

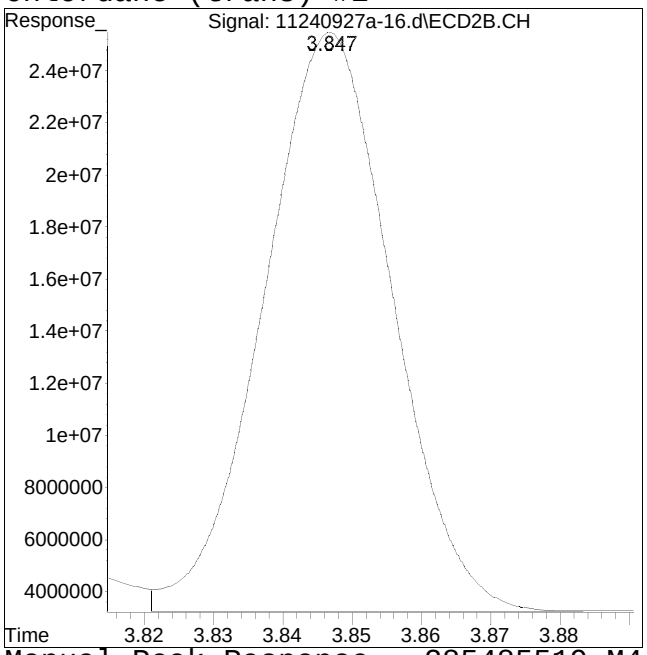
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 292558219



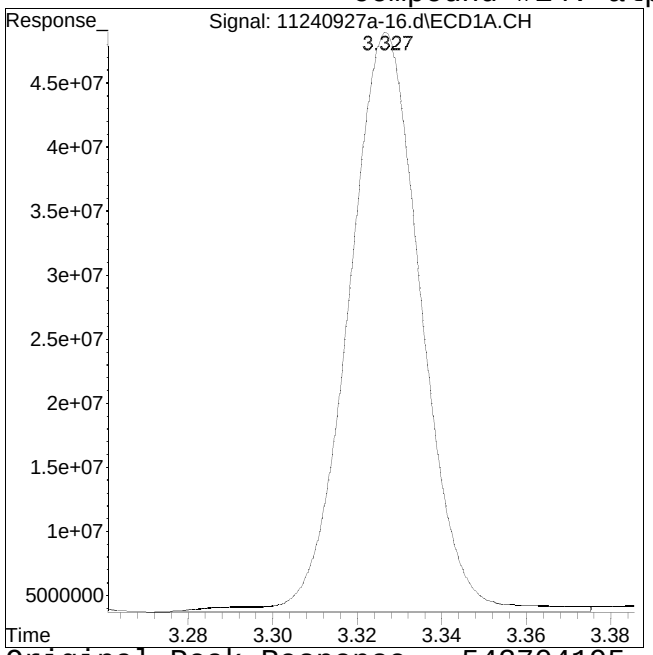
Manual Peak Response = 285485519 M4

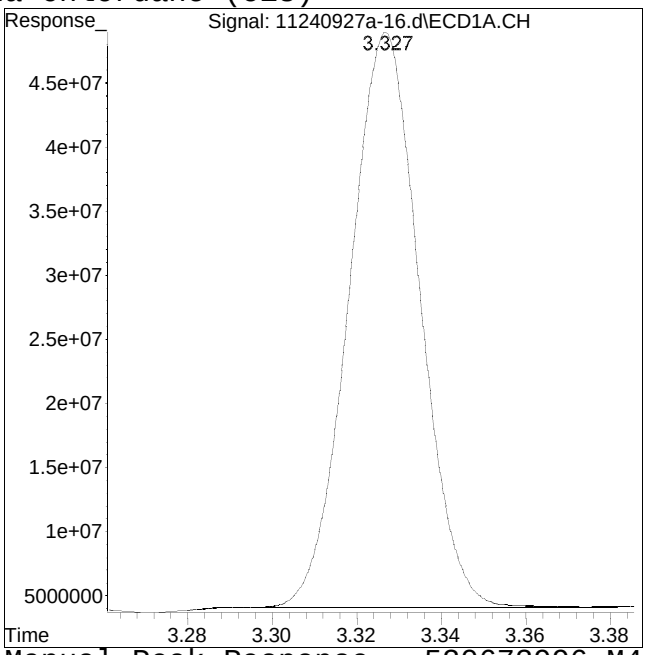
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #14: alpha-Chlordane (cis)



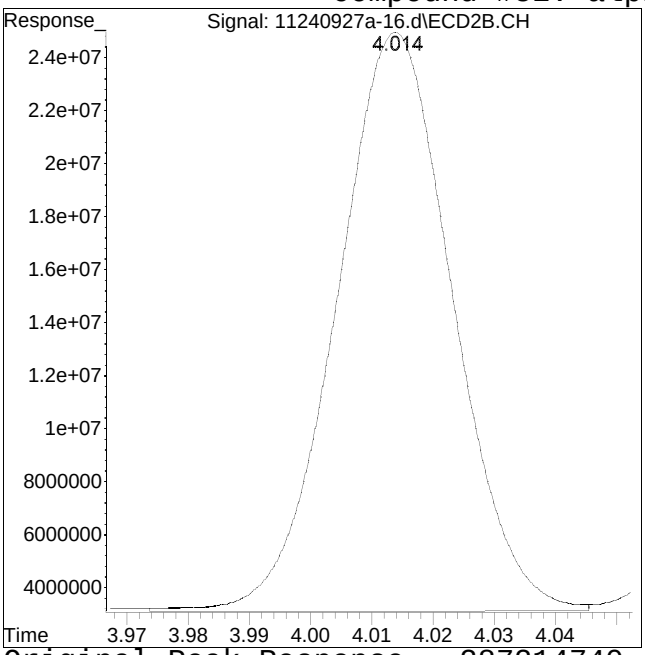


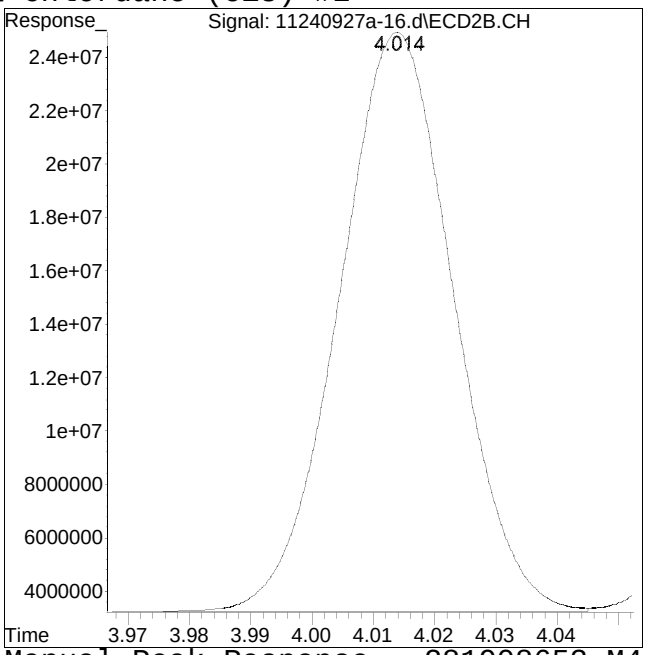
Original Peak Response = 542704195 Manual Peak Response = 520673996 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #52: alpha-Chlordane (cis) #2



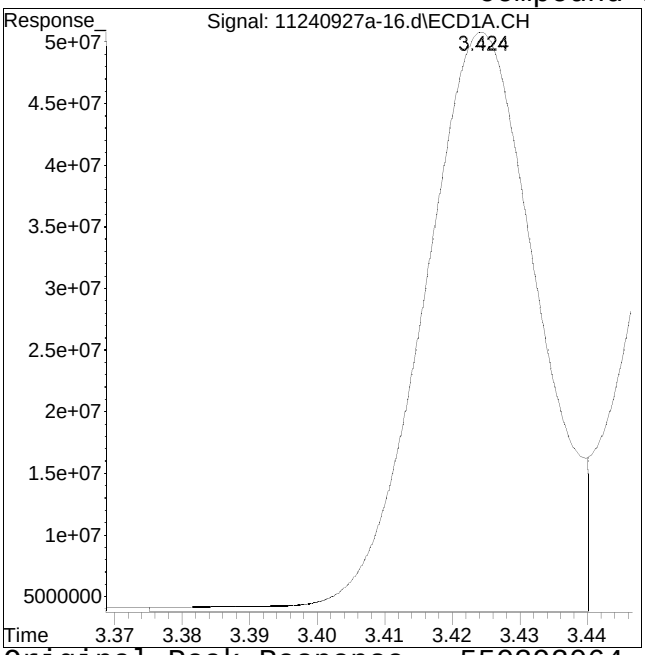


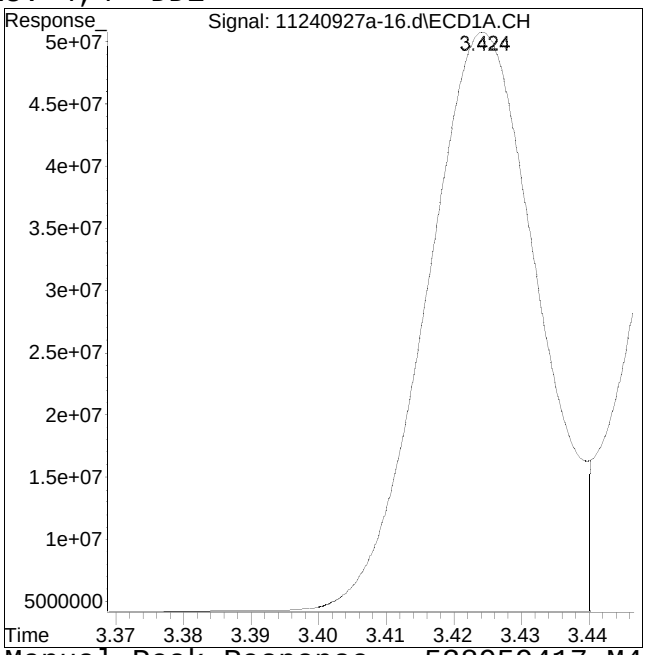
Original Peak Response = 287214740 Manual Peak Response = 281908653 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #15: 4,4'-DDE



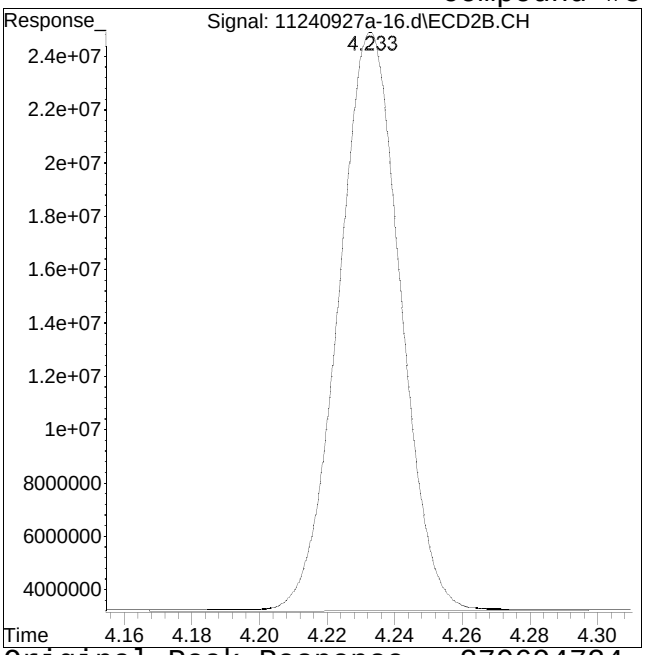


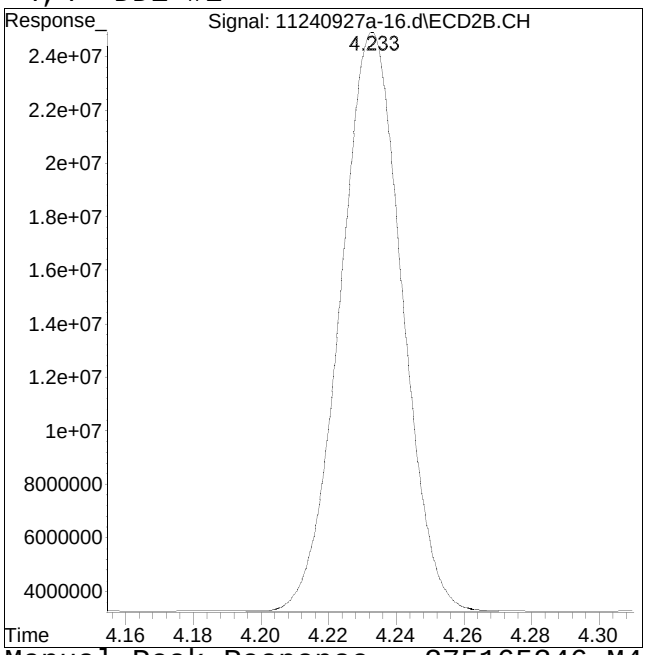
Original Peak Response = 550392064 Manual Peak Response = 538959417 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #53: 4,4'-DDE #2



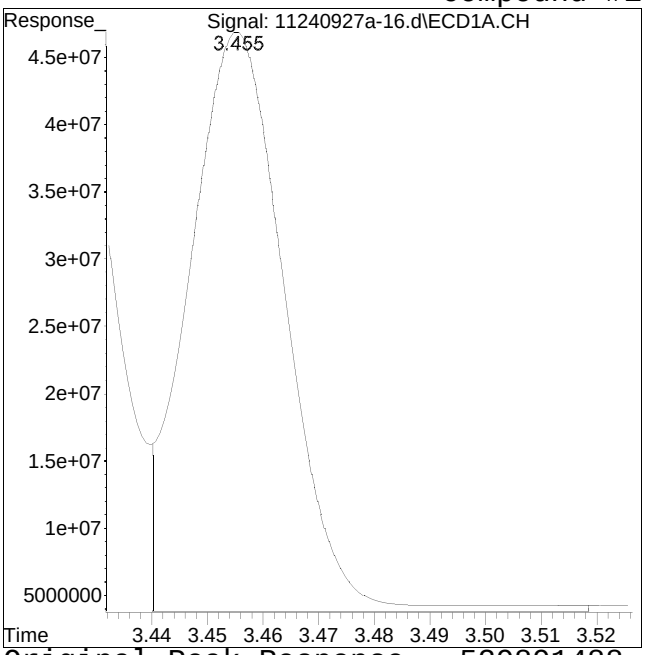


Original Peak Response = 279694724 Manual Peak Response = 275165346 M4
M4 = Poor automated baseline construction.

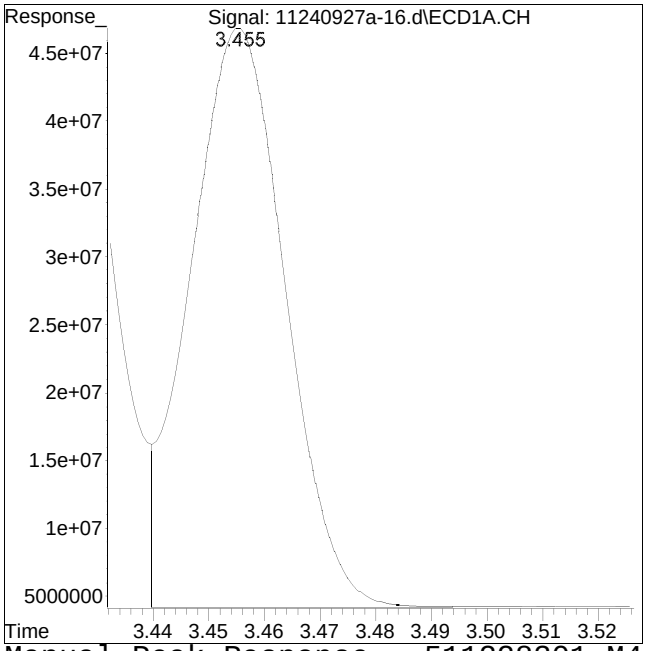
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #16: Endosulfan I



Original Peak Response = 529891488



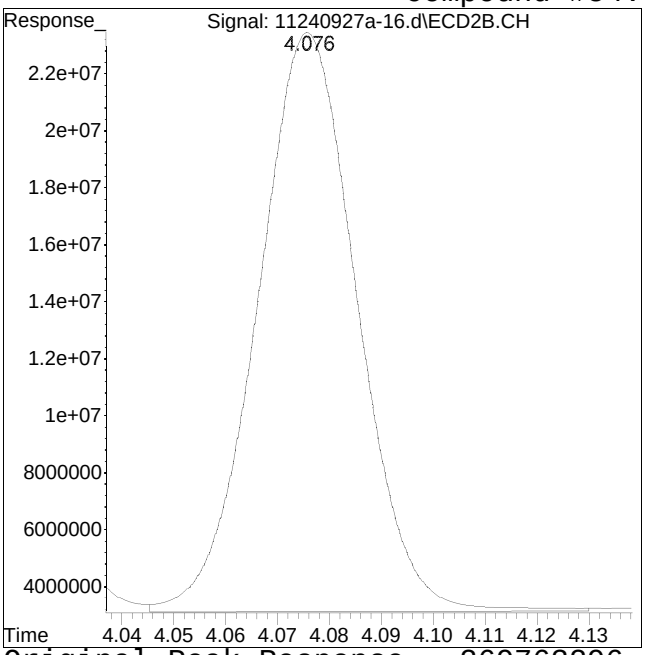
Manual Peak Response = 511228301 M4

M4 = Poor automated baseline construction.

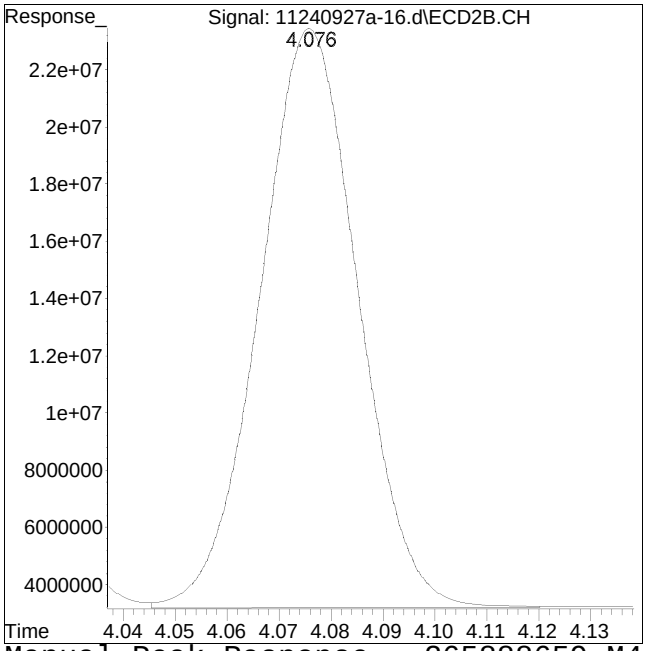
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #54: Endosulfan I #2



Original Peak Response = 269763296



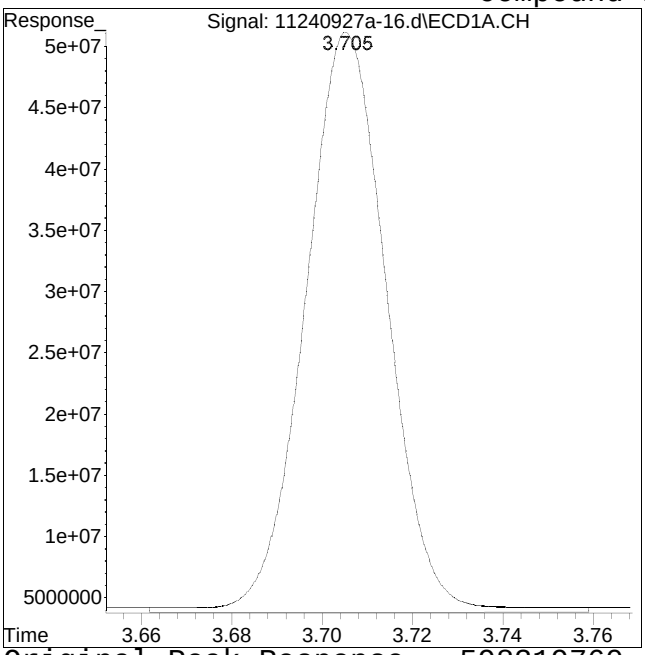
Manual Peak Response = 265888659 M4

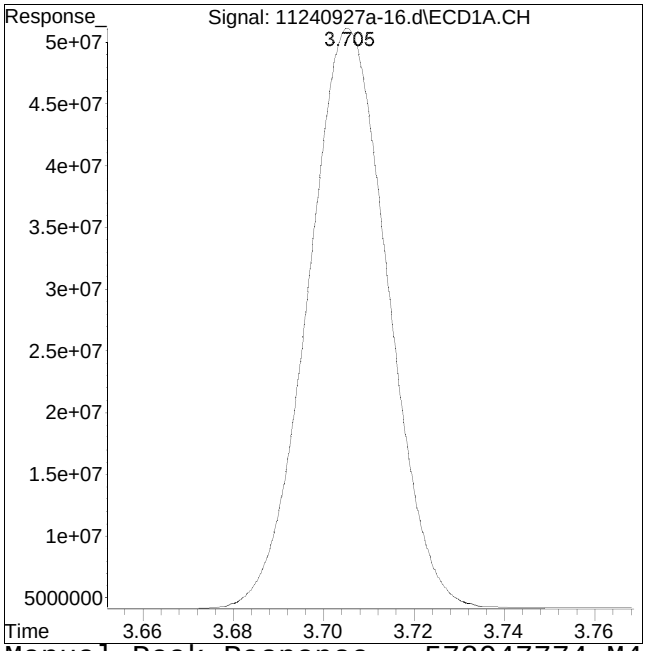
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #17: Dieldrin



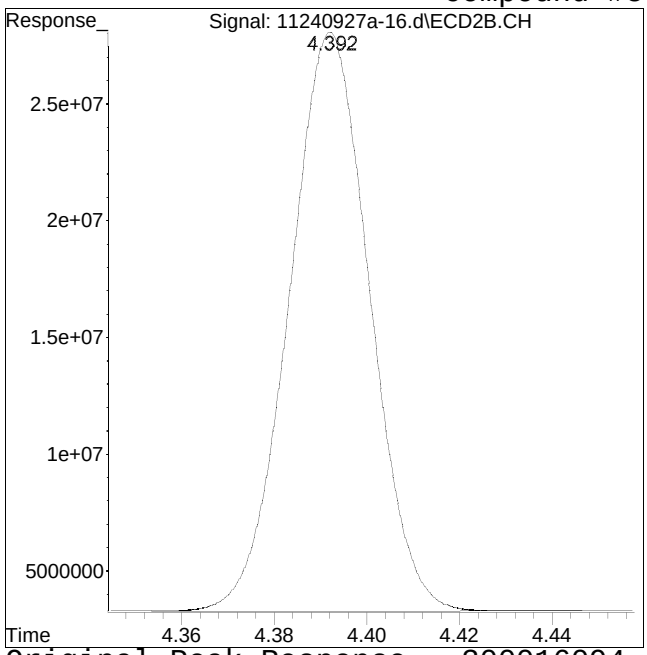


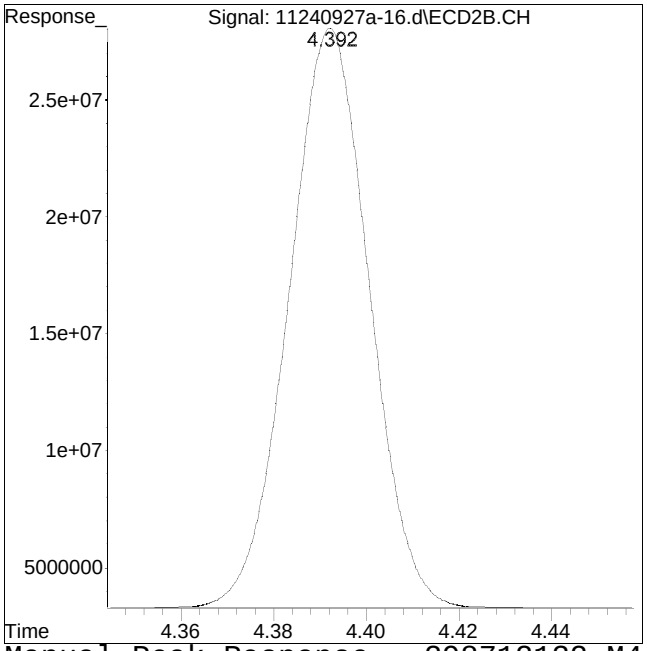
Original Peak Response = 598319760 Manual Peak Response = 578047774 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #55: Dieldrin #2



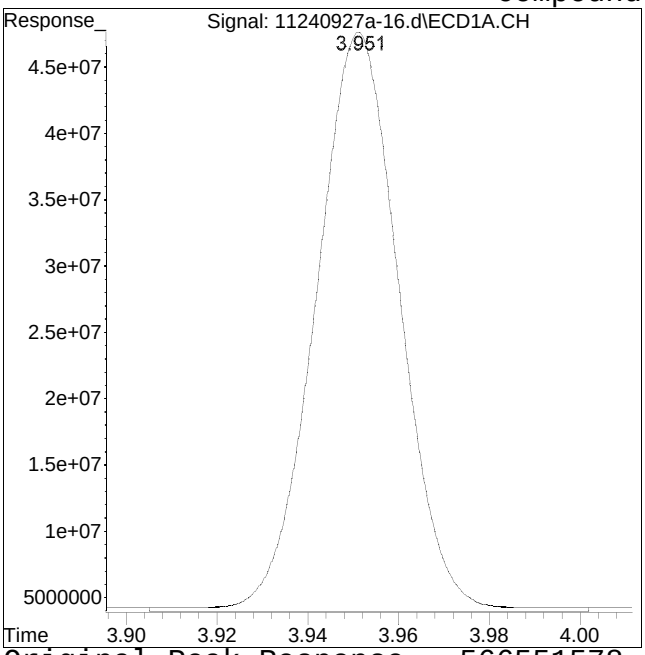


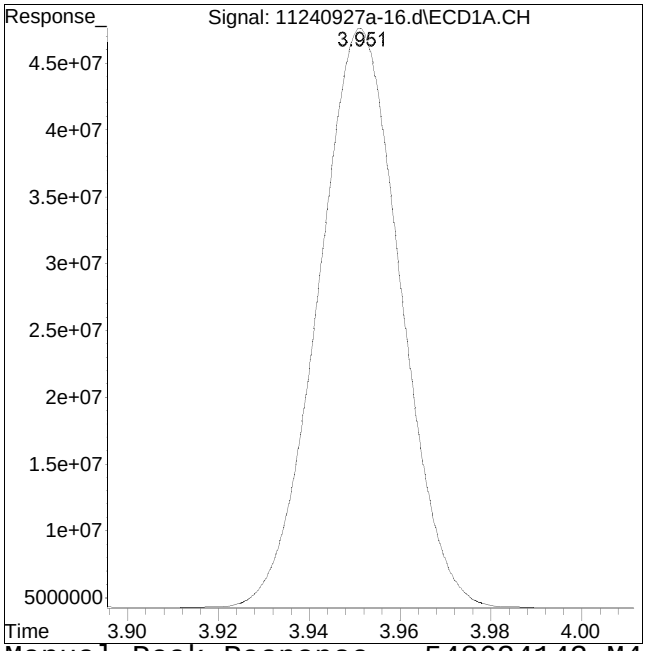
Original Peak Response = 300016094 Manual Peak Response = 298712132 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #18: Endrin



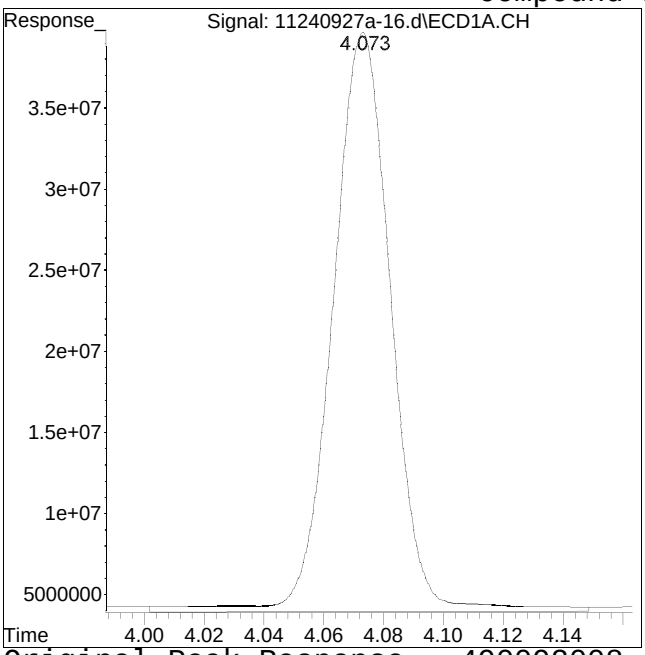


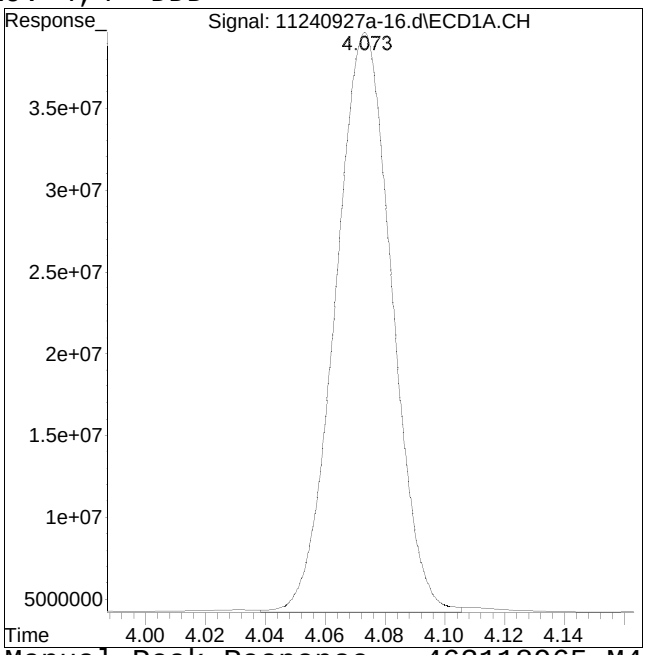
Original Peak Response = 566551578 Manual Peak Response = 548634143 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #19: 4,4'-DDD



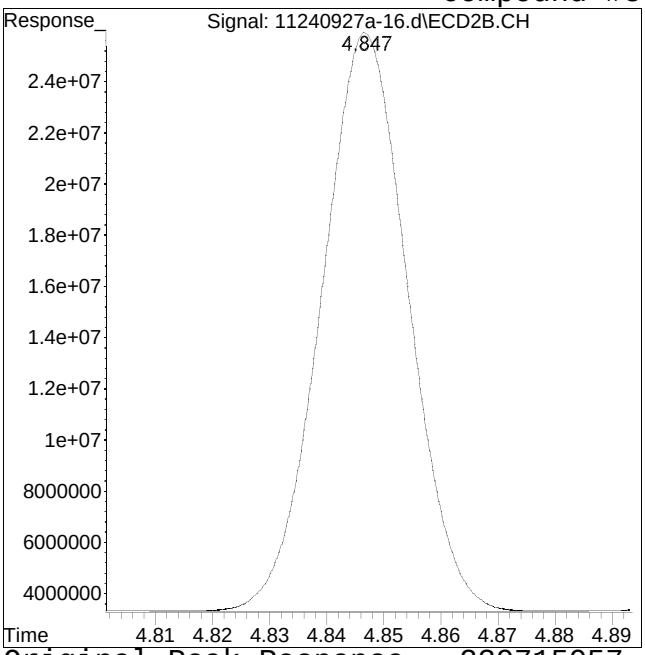


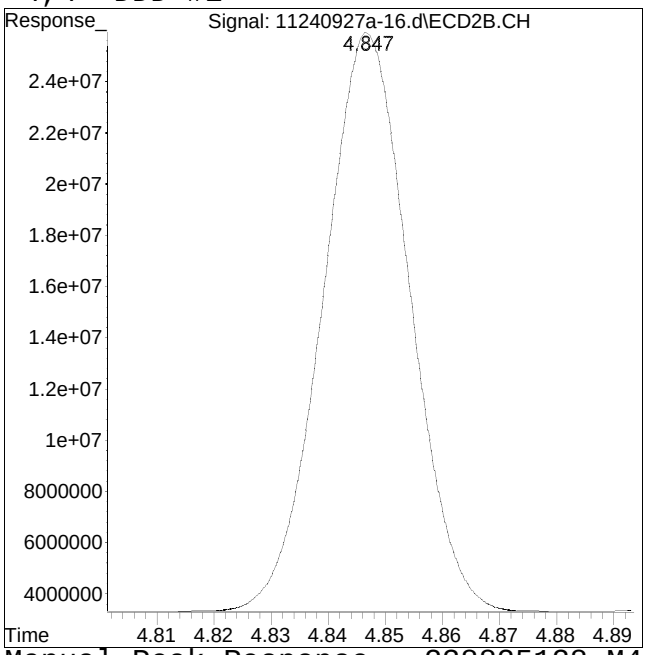
Original Peak Response = 490092008 Manual Peak Response = 463118965 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #57: 4,4'-DDD #2



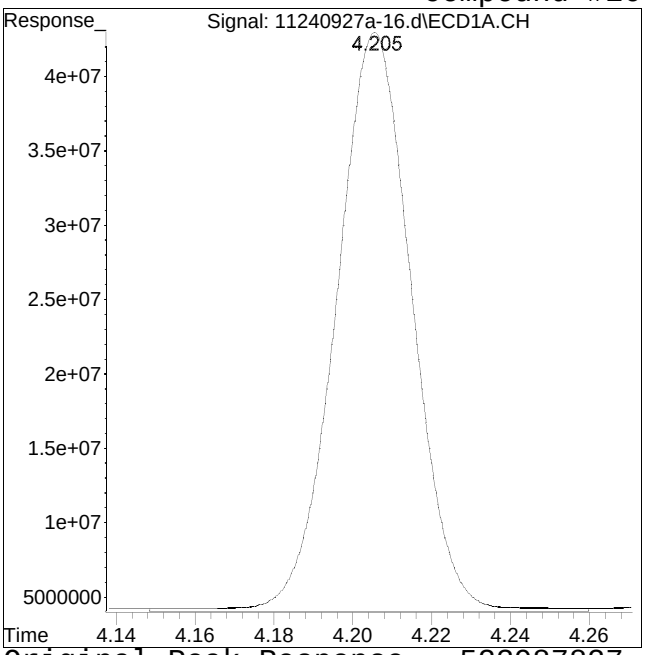


Original Peak Response = 239715957 Manual Peak Response = 238825128 M4
M4 = Poor automated baseline construction.

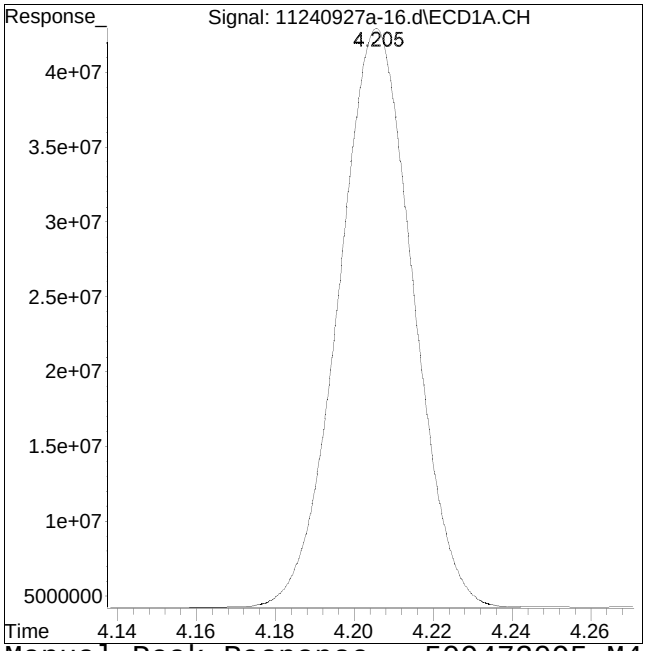
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #20: Endosulfan II



Original Peak Response = 523987827



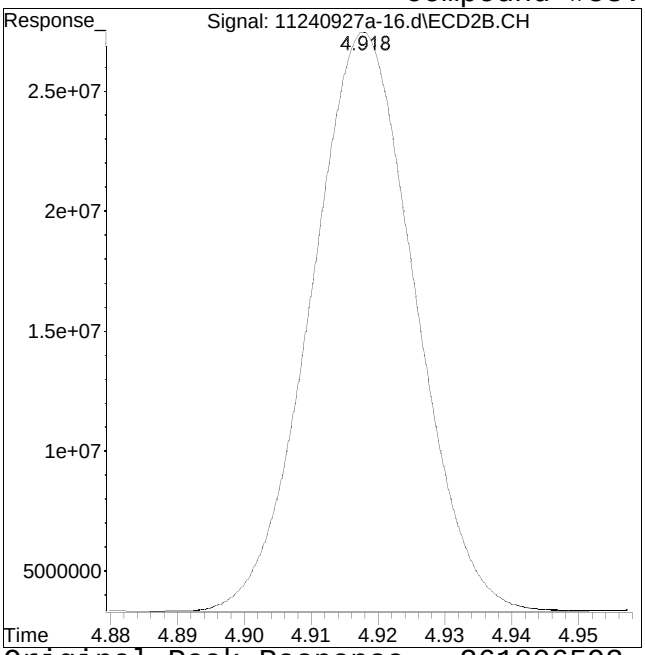
Manual Peak Response = 509473095 M4

M4 = Poor automated baseline construction.

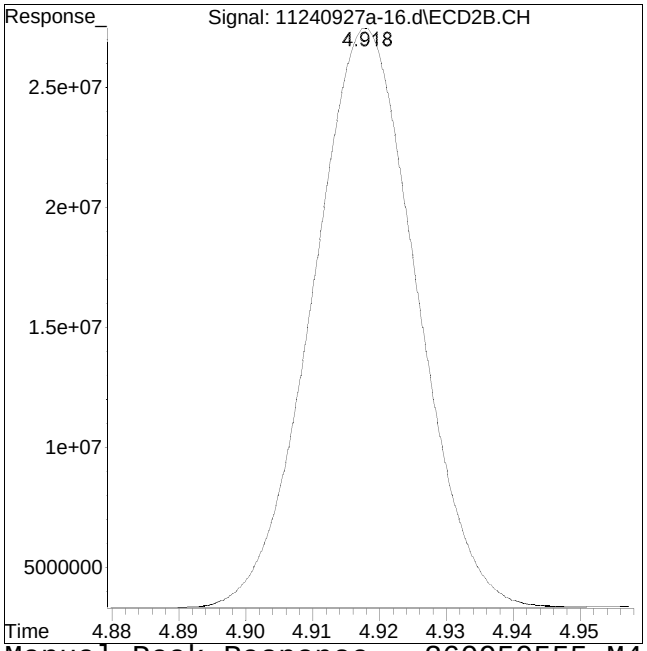
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #58: Endosulfan II #2



Original Peak Response = 261806593



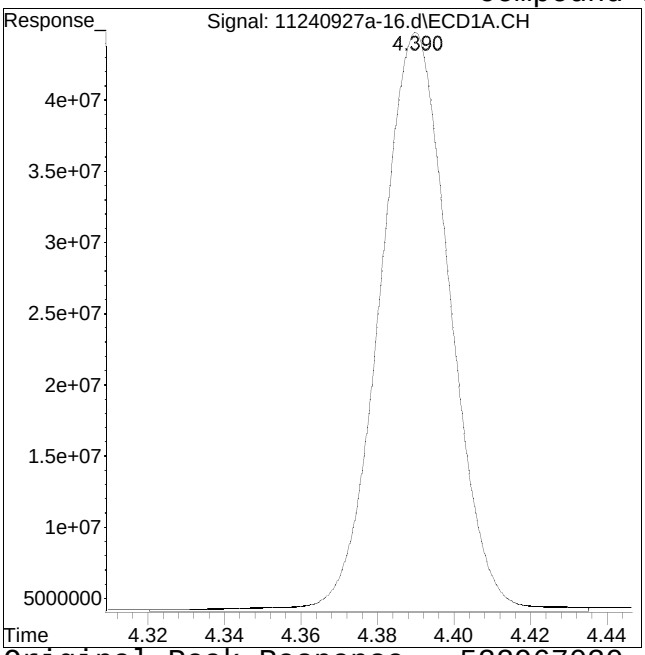
Manual Peak Response = 260950555 M4

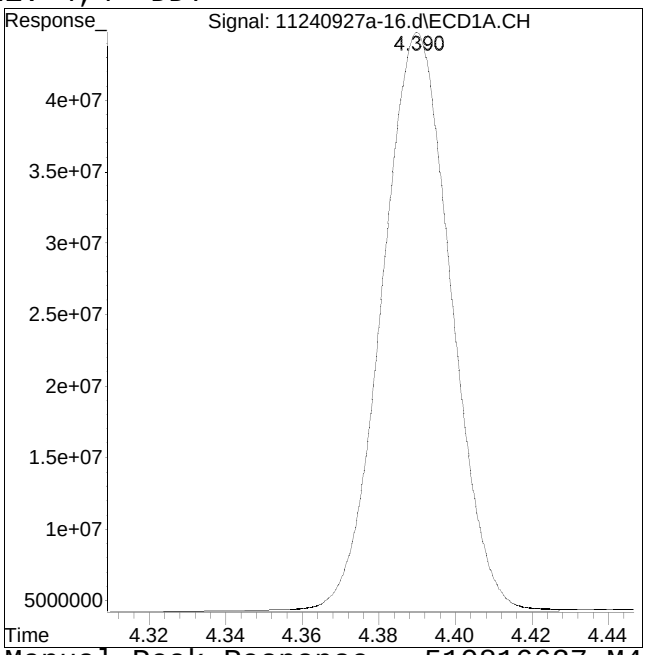
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #21: 4,4'-DDT



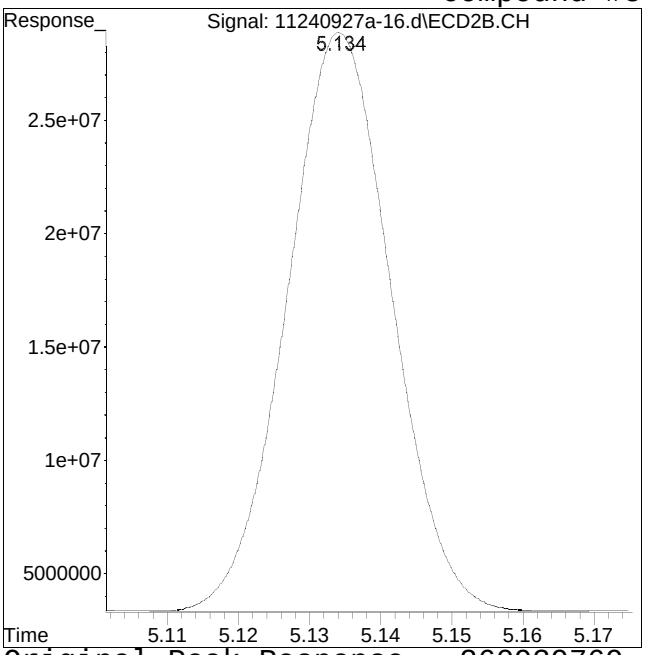


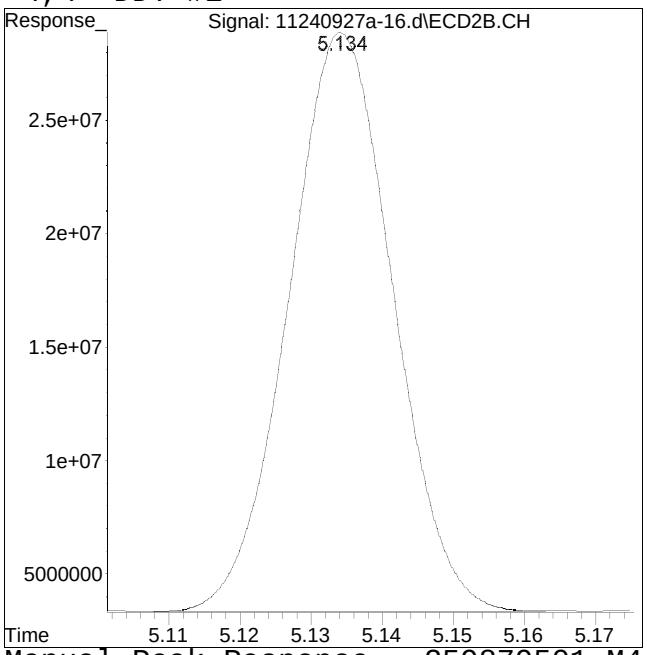
Original Peak Response = 522967030 Manual Peak Response = 510816627 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #59: 4,4'-DDT #2



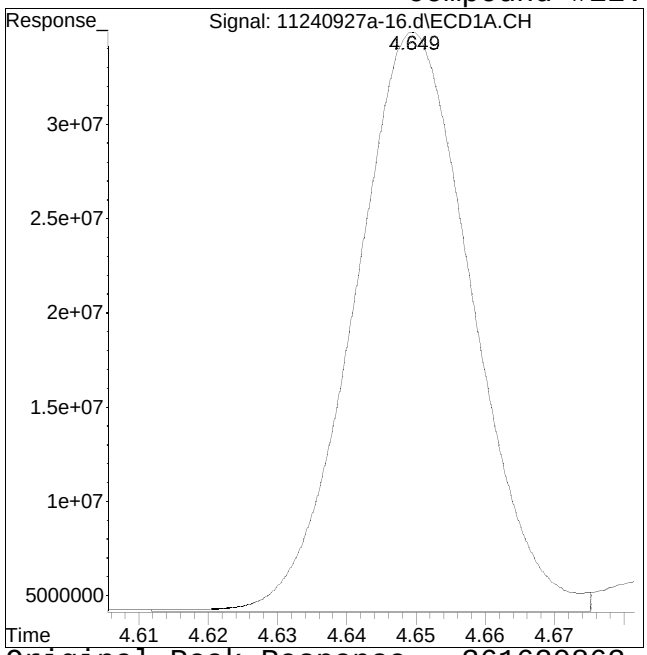


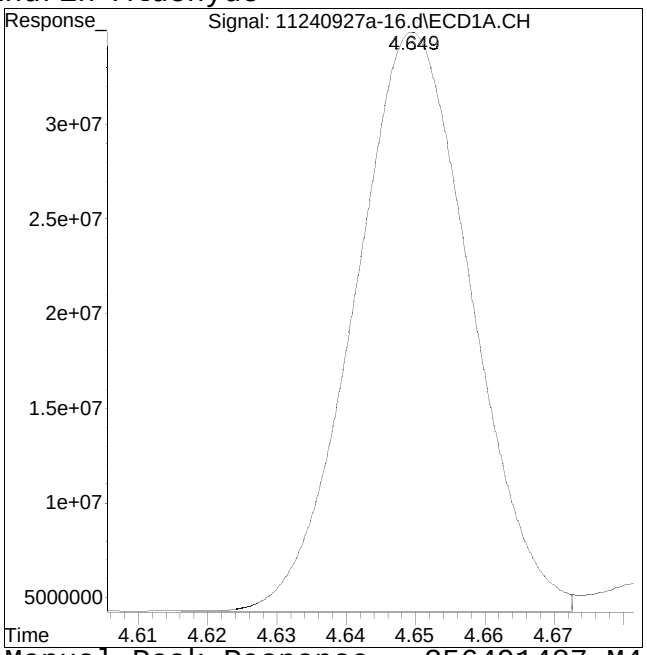
Original Peak Response = 260939769 Manual Peak Response = 259879501 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #22: Endrin Aldehyde



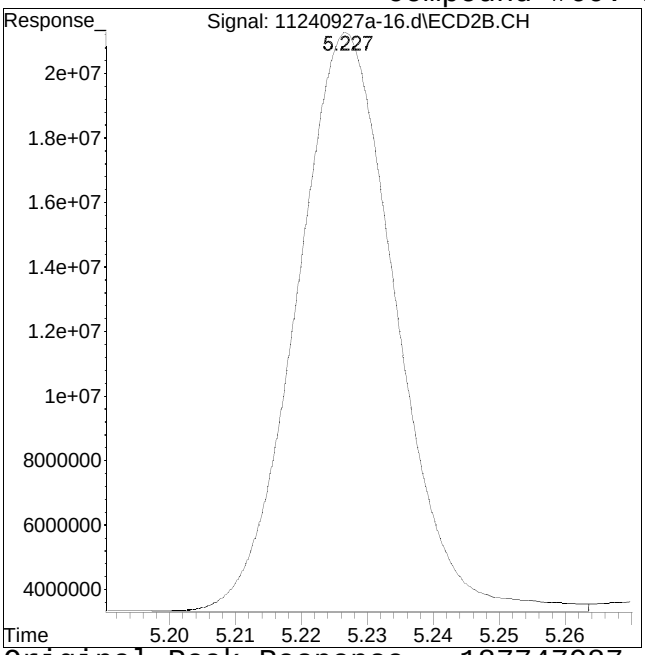


Original Peak Response = 361620863 Manual Peak Response = 356491487 M4
M4 = Poor automated baseline construction.

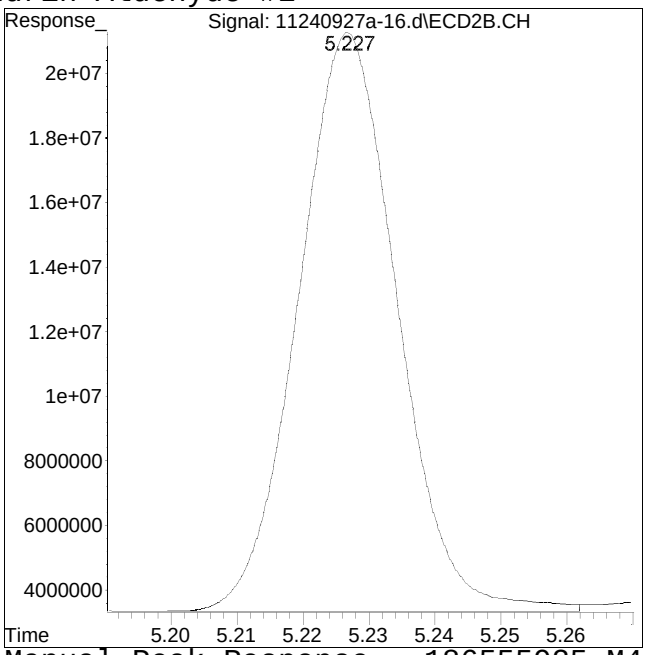
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 187747987



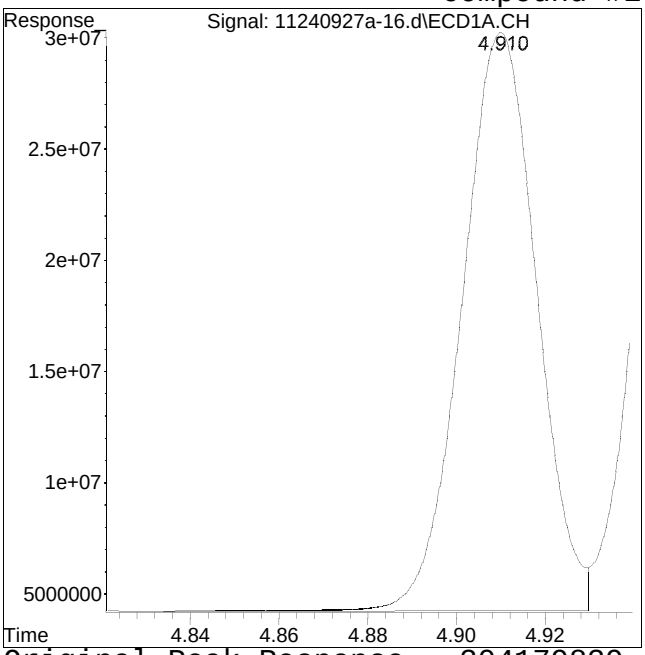
Manual Peak Response = 186555925 M4

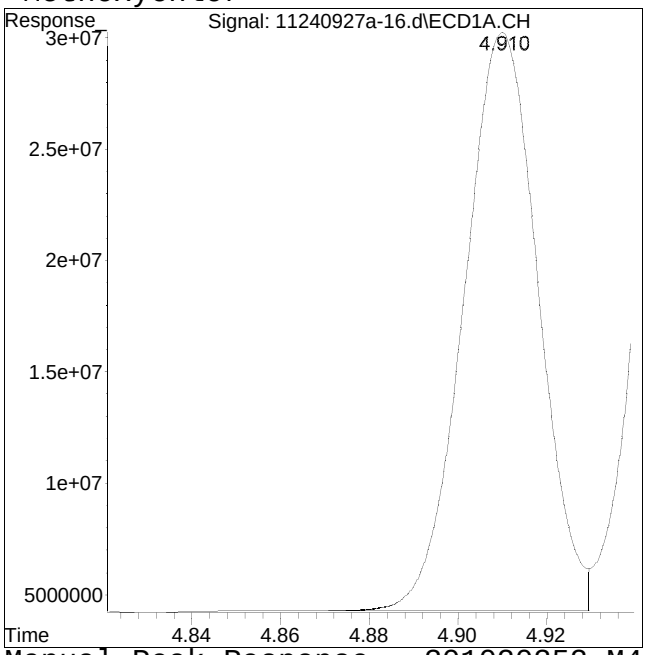
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #23: Methoxychlor



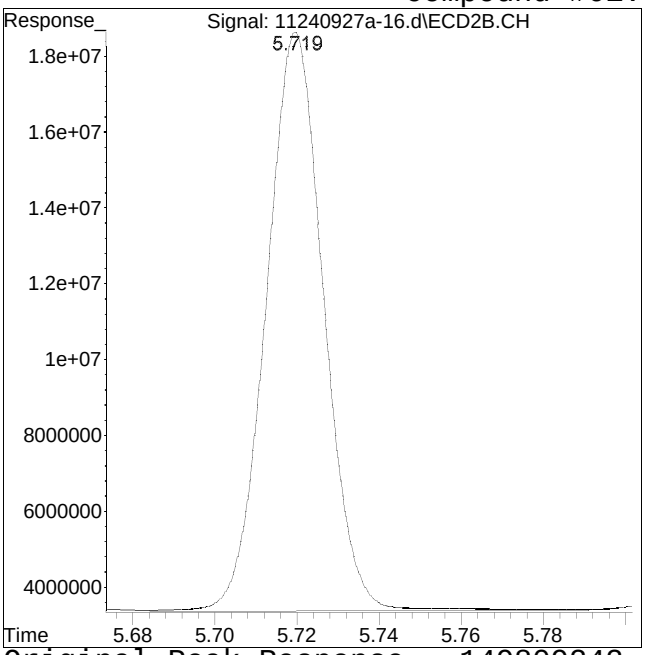


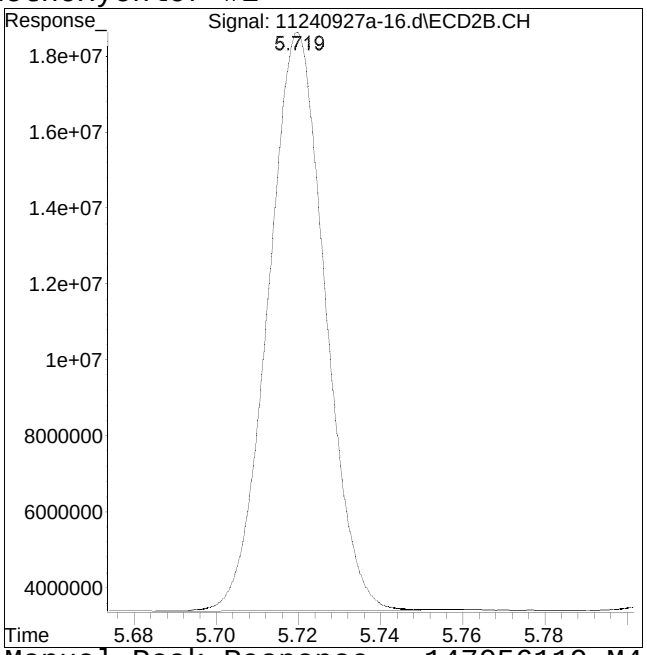
Original Peak Response = 304179839 Manual Peak Response = 301020352 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #61: Methoxychlor #2



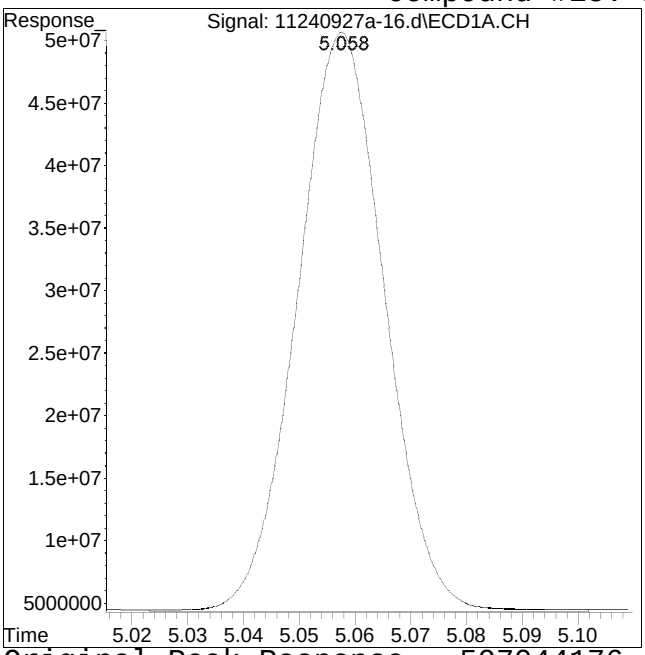


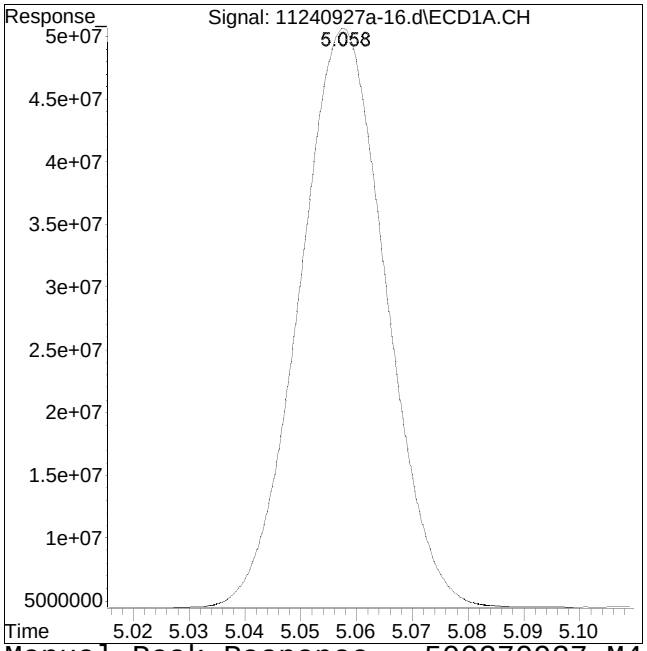
Original Peak Response = 149809242 Manual Peak Response = 147056119 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #25: Endosulfan Sulfate



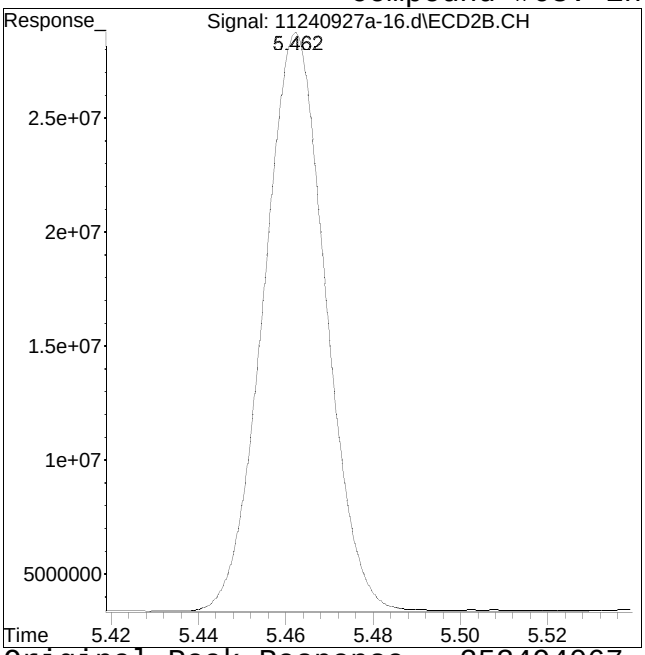


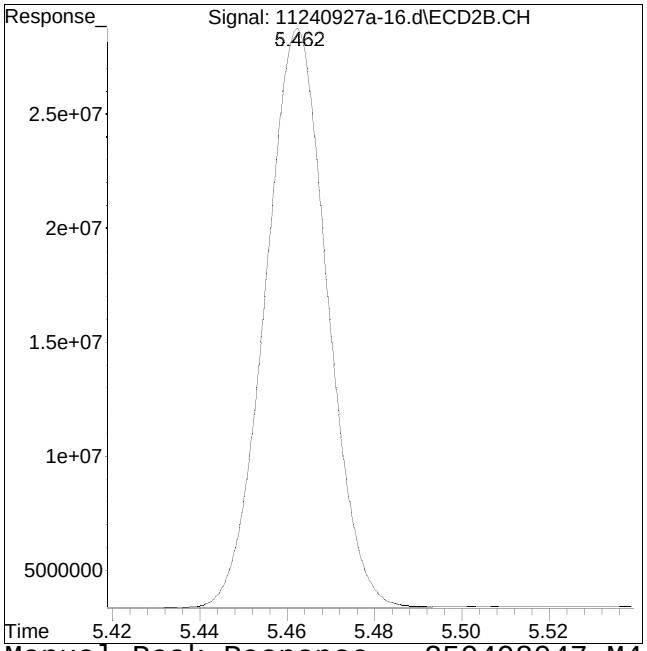
Original Peak Response = 507044176 Manual Peak Response = 500370937 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #63: Endosulfan Sulfate #2



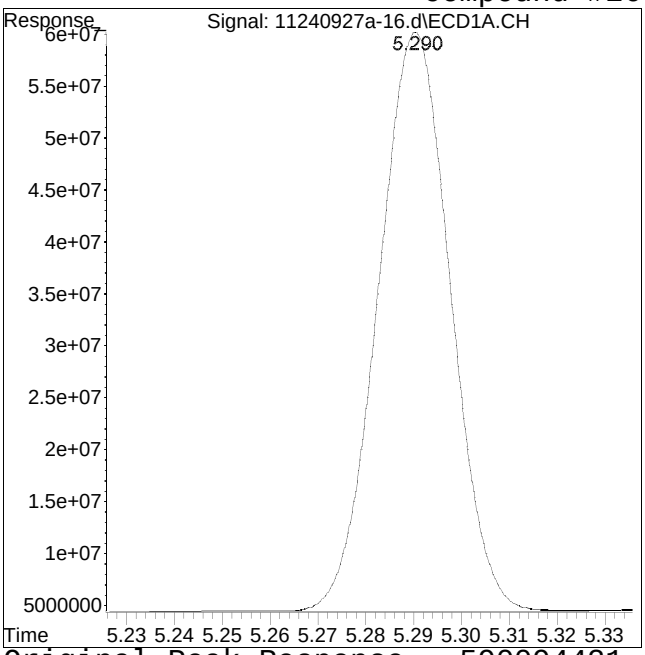


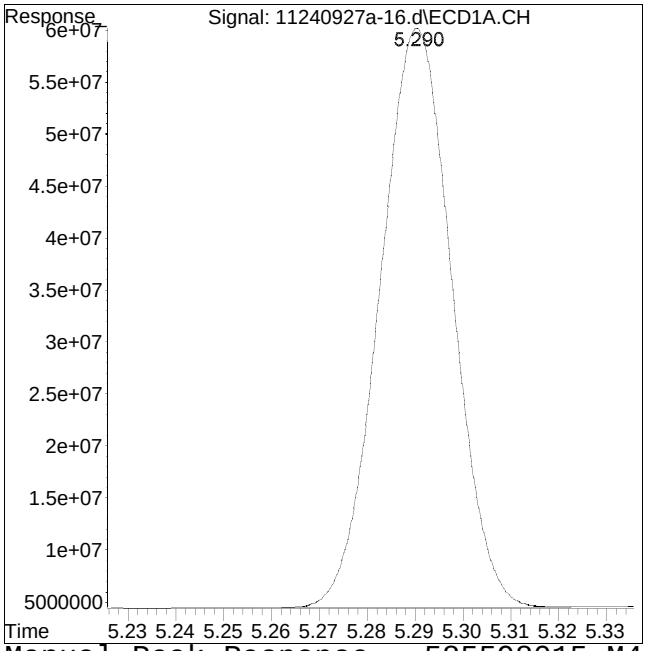
Original Peak Response = 253494067 Manual Peak Response = 250498047 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #26: Endrin Ketone



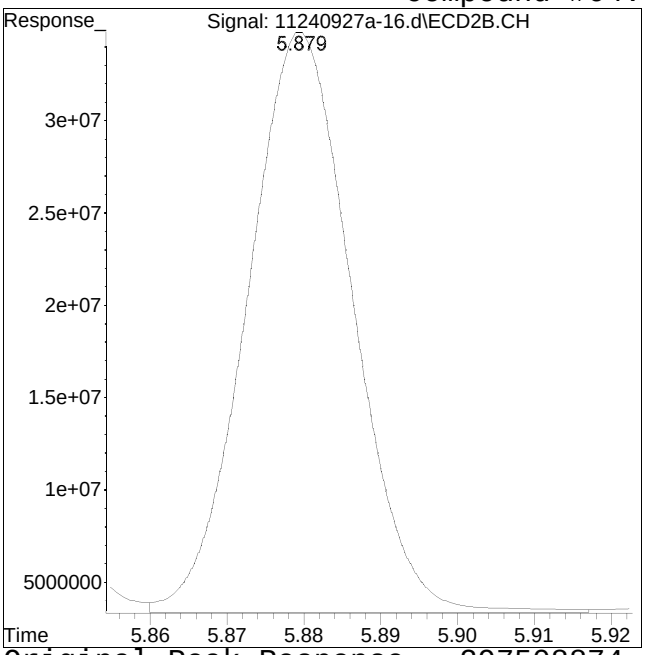


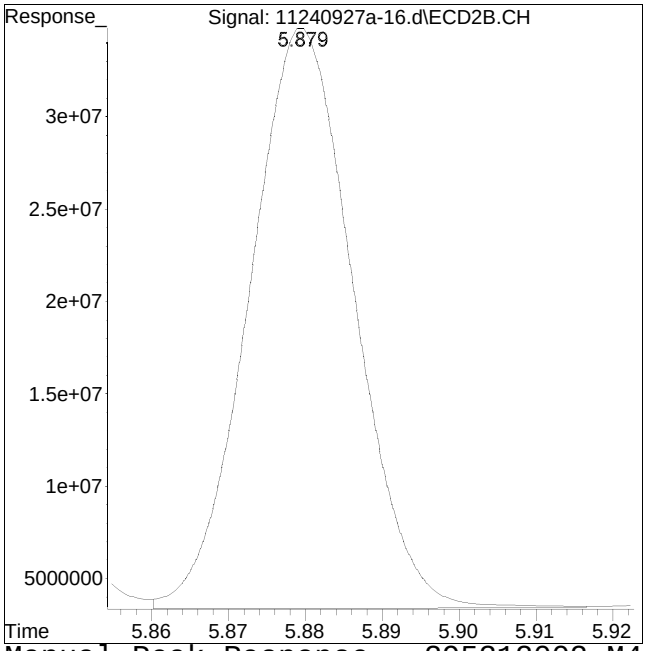
Original Peak Response = 590094421 Manual Peak Response = 585598015 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #64: Endrin Ketone #2



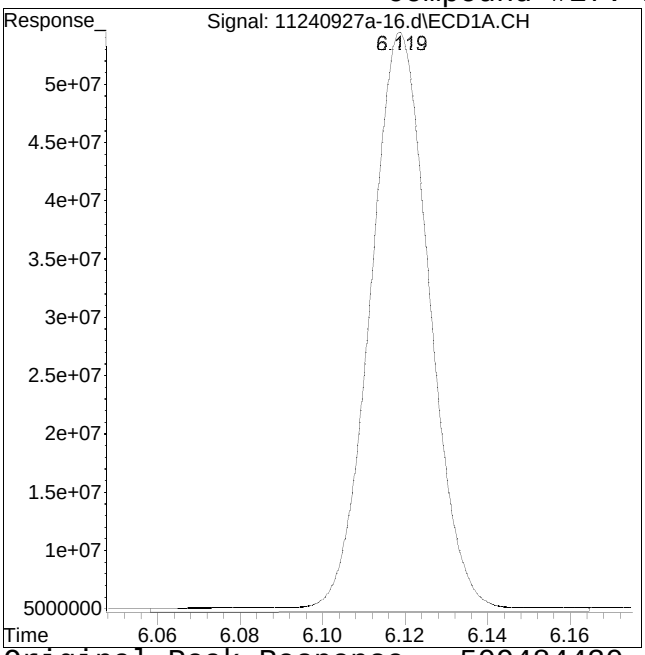


Original Peak Response = 297508874 Manual Peak Response = 295312002 M4
M4 = Poor automated baseline construction.

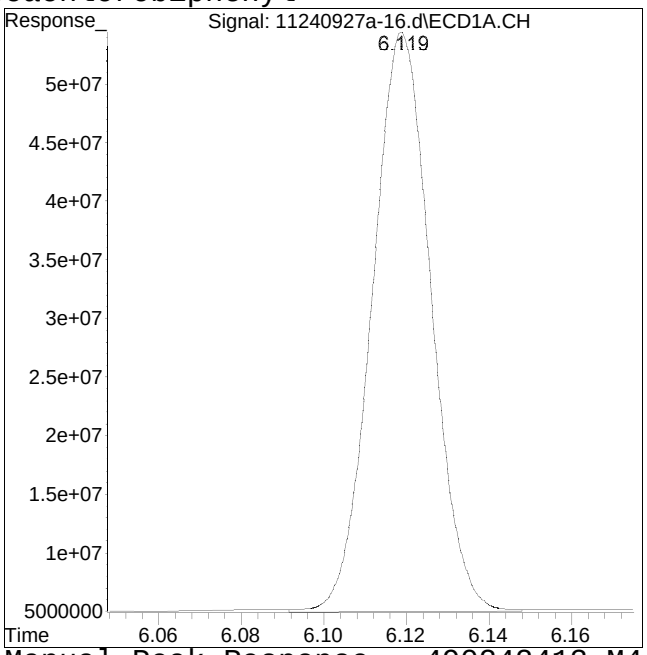
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 509484430

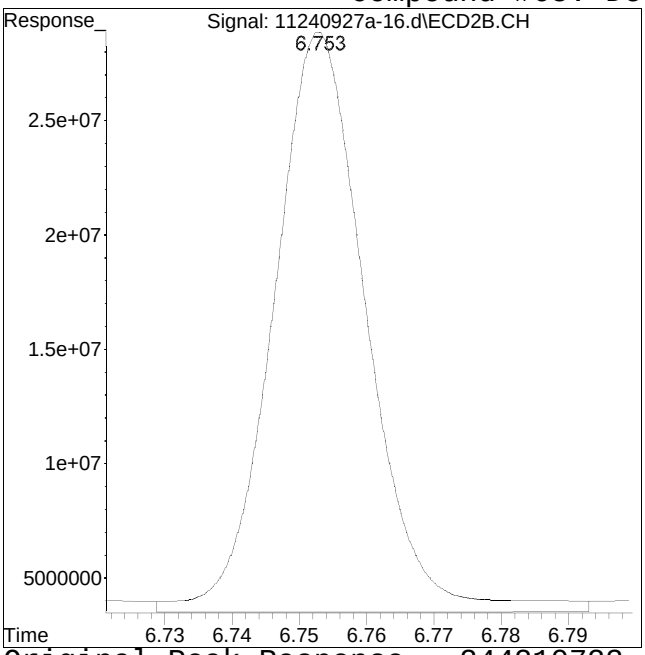


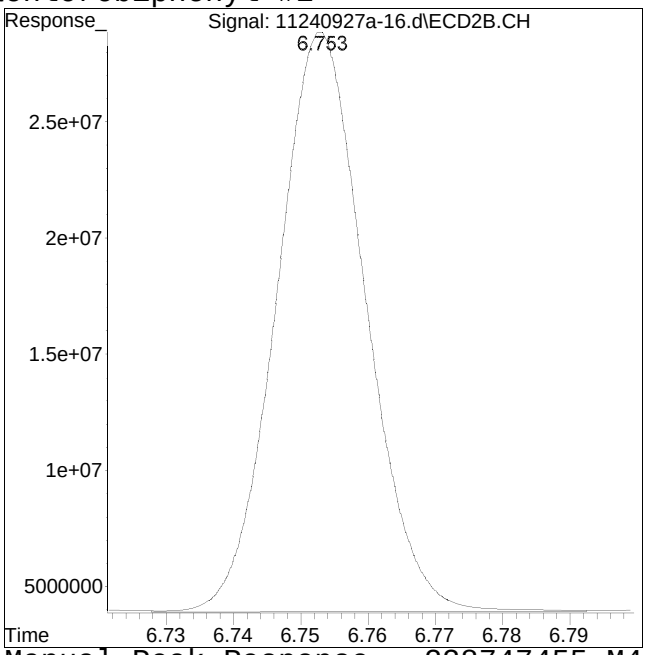
Manual Peak Response = 490242413 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240927QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240927a-16.d Operator : PEST11:jag
Date Inj'd : 9/27/2024 12:20 Instrument : Pest 11
Sample : WG1977043-3,42,, 7043 714Quant Date : 9/27/2024 2:13 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 244210723 Manual Peak Response = 228747455 M4
M4 = Poor automated baseline construction.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: PEST
Inst: PEST_11
Date: **08/01/24**
Run: ical

Method
GC: pest

Seq: WG1955254
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	11240801i-01	blank,42e,,pp 11660 -				
2	11240801i-02	pem-01,42e,,pp 11667 -				EJL 8/2
3	11240801i-03	il1pest,42e,,pp 11687 L0.0005				EJL 8/2
4	11240801i-04	il2pest,42e,,pp 11686 L0.001				EJL 8/2
5	11240801i-05	il3pest,42e,,pp 11685 L0.002				EJL 8/2
6	11240801i-06	il4pest,42e,,pp 11684 L0.003				EJL 8/2
7	11240801i-07	il5pest,42e,,pp 11683 L0.004				EJL 8/2
8	11240801i-08	il7pest,42e,,pp 11682 L0.01				EJL 8/2
9	11240801i-09	il8pest,42e,,pp 11681 L0.05				EJL 8/2
10	11240801i-10	il9pest,42e,,pp 11680 L0.1				EJL 8/2
11	11240801i-11	il10pest,42e,,pp 11679 L0.2				EJL 8/2
12	11240801i-12	il11pest,42e,,pp 11678 L0.4				EJL 8/2
13	11240801i-13	cicvpest,42e,,pp 11675 L0.05ICV				EJL 8/2
14	11240801i-14	il3chlor,42e,,pp 11694 L0.01				EJL 8/2
15	11240801i-15	il4chlor,42e,,pp 11693 L0.02				EJL 8/2
16	11240801i-16	il5chlor,42e,,pp 11692 L0.1				EJL 8/2
17	11240801i-17	il7chlor,42e,,pp 11691 L0.5				EJL 8/2
18	11240801i-18	il8chlor,42e,,pp 11690 L1.0				EJL 8/2
19	11240801i-19	il9chlor,42e,,pp 11689 L2.0				EJL 8/2
20	11240801i-20	il10chlor,42e,,pp 11688 L5.0				EJL 8/2
21	11240801i-21	cicvchlor,42e,,pp 11670 L1.0ICV				EJL 8/2
22	11240801i-22	il3tox,42e,,pp 11703 L0.02				EJL 8/2
23	11240801i-23	il4tox,42e,,pp 11702 L0.1				EJL 8/2
24	11240801i-24	il7tox,42e,,pp 11701 L1.0				EJL 8/2
25	11240801i-25	il8tox,42e,,pp 11700 L2.0				EJL 8/2
26	11240801i-26	il9tox,42e,,pp 11695 L5.0				EJL 8/2
27	11240801i-27	cicvtox,42e,,pp 11668 L2.0ICV			EJL	EJL 8/2

Dep.: PEST
Inst: PEST_11
Date: **09/27/24**
Run: a

Method
GC: pest

Seq: wg1977176
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	11240927a-01	blank				
2	11240927a-02	deg11573	9:15			Akm 9/27
3	11240927a-03	pest11675	b: low			Akm 9/27
4	11240927a-04	chlor11816	20%			Akm 9/27
5	11240927a-05	tox11668	20%			Akm 9/27
6	11240927a-06	blank				
7	11240927a-07	WG1976971-1,42,, t	t 24-SEP-24 21:05			JAG 9/27
8	11240927a-08	WG1976971-2,42,, t	t 24-SEP-24 21:05			JAG 9/27
9	11240927a-09	WG1976971-3,42,, t	t 24-SEP-24 21:05			JAG 9/27
10	11240927a-10	L2455018-09,42,,,R3C t	t 25-SEP-24 16:01			JAG 9/27
11	11240927a-11	L2455018-10,42,,,R3C t	t 25-SEP-24 16:01			JAG 9/27
12	11240927a-12	L2455019-09,42,,,R3C t	t 25-SEP-24 16:01			JAG 9/27
13	11240927a-13	L2455019-10,42,,,R3C t	t 25-SEP-24 16:01			JAG 9/27
14	11240927a-14	WG1977148-1,42,, 7043 7145				JAG 9/27
15	11240927a-15	WG1977148-2,42,, 7043 7145				JAG 9/27
16	11240927a-16	WG1977148-3,42,, 7043 7145				JAG 9/27
17	11240927a-17	L2455026-01,42,,,R1C				JAG 9/27
18	11240927a-18	L2455026-02,42,,,R1C				JAG 9/27
19	11240927a-19	L2454865-01,42,,,R3C t	t 25-SEP-24 16:01		akm	JAG 9/27
20	11240927a-20	WG1976747-1,42,, rr mcp	double spiked, surros and targets high, sar			JAG 9/27
21	11240927a-21	WG1976747-2,42,, rr mcp				JAG 9/27
22	11240927a-22	WG1976747-3,42,, rr mcp				JAG 9/27
23	11240927a-23	L2453932-01,42,, rr mcp				JAG 9/27
24	11240927a-24	WG1976969-1,42,, t	t 22-SEP-24 07:00			JAG 9/27
25	11240927a-25	WG1976969-2,42,, t	t 22-SEP-24 07:00			JAG 9/27
26	11240927a-26	WG1976969-3,42,, t	t 22-SEP-24 07:00			JAG 9/27
27	11240927a-27	L2453870-01,42,, t	t 22-SEP-24 07:00			JAG 9/27
28	11240927a-28	L2453915-01,42,, t	t 22-SEP-24 07:00			JAG 9/27
29	11240927a-29	pest11675	a: is high		akm	

Dep.: PEST
Inst: PEST_11
Date: **09/28/24**
Run: a

Method
GC: pest

Seq: wg1977568
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	11240928a-01	blank				
2	11240928a-02	deg11573	10:19			JAG 9/28
3	11240928a-03	pest11675	a: g-chlor high b: methoxy low			JAG 9/28
4	11240928a-04	chlor11816	15%			JAG 9/28
5	11240928a-05	tox11668	15%			JAG 9/28
6	11240928a-06	blank				
7	11240928a-07	L2453863-15,42,, rr		akm		AKM 9/29
8	11240928a-08	L2454239-01,42,,				AKM 9/29
9	11240928a-09	L2454239-02,42,,				AKM 9/29
10	11240928a-10	L2454239-03,42,,				AKM 9/29
11	11240928a-11	L2454316-01,42,,				AKM 9/29
12	11240928a-12	L2454316-02,42,,				AKM 9/29
13	11240928a-13	L2454402-05,42,,				AKM 9/29
14	11240928a-14	L2454402-03,42,,				AKM 9/29
15	11240928a-15	L2454402-02,42,,				AKM 9/29
16	11240928a-16	L2454402-01,42,,				AKM 9/29
17	11240928a-17	L2454352-01,42,,				AKM 9/29
18	11240928a-18	L2454309-01,42,,				AKM 9/29
19	11240928a-19	WG1977129-1,42,, 608	surros low in all, all re-exd	jag		
20	11240928a-20	WG1977129-2,42,, 608				
21	11240928a-21	L2453108-09,42,, 608 p				
22	11240928a-22	WG1977129-3,42,, 608 ms				
23	11240928a-23	WG1977129-4,42,, 608 msd				
24	11240928a-24	L2454217-01,42,, 608				
25	11240928a-25	L2454239-01,42,, 608	No volume left			
26	11240928a-26	L2454239-02,42,, 608	No volume left			
27	11240928a-27	L2454239-03,42,, 608	No volume left			
28	11240928a-28	L2454333-01,42,, 608				
29	11240928a-29	pest11675	b: methoxy low, else 25%		jag	AKM 9/29

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 30 2024, 12:39 pm

Work Group: WG1977043 for Department: 2 Organic Preparation

Created: 27-SEP-24 Due: Operator: ZCH

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2454309-01	BUFFALO RO-TYPE 1	S	NYTCL-8081	WATER	DONE	U	0927	1004	NC	Amber-A.120
L2454352-01	SCDOH-DR	S	NYTCL-8081	WATER	DONE	U	0927	0927	S0	Amber-A.120
L2454402-01	HA-MW-06	S	NYTCL-8081	WATER	DONE	U	0927	0927	S0	Amber-A.120
L2454402-02	HA-MW-02	S	NYTCL-8081	WATER	DONE	U	0927	0927	S0	Amber-A.120
L2454402-03	HA-MW-01	S	NYTCL-8081	WATER	DONE	U	0927	0927	S0	Amber-A.120
L2454402-05	FB-20240920	S	NYTCL-8081	WATER	DONE	U	0927	0927	S0	Amber-A.120
L2455026-01	MW-19	S	NYTCL-8081	WATER	DONE	U	1001	0927	1C	Amber-A.120
L2455026-02	FB 2024-09-24	S	NYTCL-8081	WATER	DONE	U	1001	0927	1C	Amber-A.120
WG1977043-1	Laboratory Method Bl	S	NYTCL-8081	WATER	DONE	U				
WG1977043-2	Laboratory Control S	S	NYTCL-8081	WATER	DONE	U				
WG1977043-3	LCS Duplicate	S	NYTCL-8081	WATER	DONE	U				

Comments:

WG1977043-3 WG1977043-2

ORGANIC ELN REPORT

Workgroup: WG1977043

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ089
Surrogate Type: Pesticide/PCB **Lot #:** PP11735bd,02/06/2025,7c,5,1
Spike Type: Pesticide **Lot #:** PP11617-AS [12/17/2024]
Spike Verify by: ZCH
Lims Spikelot: PEST_LVI

Additional Reagents/Stds

Na2SO4	23K2961078

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EJ061

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2454309-01 SAMP	09/27/24 09:20	Nicholas Dunn	140	>5, <9	.25		09/27/24 15:14	Kwame Mensah	1	H / K / #3
L2454352-01 SAMP	09/27/24 08:18	Sydney Meyer	140	>5,<9	.25		09/27/24 14:10	Priscilla Anim	1	C / A / #1
L2454402-01 SAMP	09/27/24 08:18	Sydney Meyer	140	>5,<9	.25		09/27/24 14:10	Priscilla Anim	1	C / A / #1
L2454402-02 SAMP	09/27/24 08:18	Sydney Meyer	140	>5,<9	.25		09/27/24 14:10	Priscilla Anim	1	C / A / #1
L2454402-03 SAMP	09/27/24 08:18	Sydney Meyer	140	>5,<9	.25		09/27/24 14:10	Priscilla Anim	1	C / A / #1
L2454402-05 SAMP	09/27/24 08:18	Sydney Meyer	140	>5,<9	.25		09/27/24 14:10	Priscilla Anim	1	C / A / #1
L2455026-01 SAMP	09/27/24 07:51	Zachary Helin	140	>5, <9	.25		09/27/24 10:30	Kwame Mensah	1	H / K / #3

Reported: 30-SEP-24 12:39 PM

ORGANIC ELN REPORT

Workgroup: WG1977043

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2455026-02 SAMP	09/27/24 07:51	Zachary Helin	140	>5, <9	.25		09/27/24 10:30	Kwame Mensah	1	H / K / #3
WG1977043-1 BLANK	09/27/24 07:51	Zachary Helin	140	>5, <9	.25		09/27/24 10:30	Kwame Mensah	1	H / K / #3
	WG1977145,WG1977147,WG1977043									
WG1977043-2 LCS	09/27/24 07:51	Zachary Helin	140	>5, <9	.25	.25	09/27/24 10:30	Kwame Mensah	1	H / K / #3
WG1977043-3 LCSD	09/27/24 07:51	Zachary Helin	140	>5, <9	.25	.25	09/27/24 10:30	Kwame Mensah	1	H / K / #3

Metals

Inorganic Data
(ICP Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976217-1	**Date Collected**	: NA
Client ID	: WG1976217-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/26/24 17:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1976444.csv	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976217-4	**Date Collected**	: 09/19/24 10:25
Client ID	: WG1976217-4 DUP	**Date Received**	: 09/19/24
Sample Location	:	**Date Analyzed**	: 09/26/24 18:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1976444.csv	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.032	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976217-1	**Date Collected**	: NA
Client ID	: WG1976217-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/26/24 17:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1976462.csv	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	ND	0.100	0.0350	U
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	ND	0.100	0.0153	U
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	ND	2.50	0.237	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	ND	2.00	0.120	U
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976217-4	**Date Collected**	: 09/19/24 10:25
Client ID	: WG1976217-4 DUP	**Date Received**	: 09/19/24
Sample Location	:	**Date Analyzed**	: 09/26/24 17:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1976462.csv	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-36-0	Antimony, Dissolved	ND	0.0500	0.007	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.002	U
7440-39-3	Barium, Dissolved	0.104	0.0100	0.002	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.001	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.001	U
7440-70-2	Calcium, Dissolved	15.6	0.100	0.035	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.002	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.002	U
7440-50-8	Copper, Dissolved	0.0031	0.0100	0.002	J
7439-89-6	Iron, Dissolved	0.0158	0.0500	0.009	J
7439-92-1	Lead, Dissolved	ND	0.0100	0.003	U
7439-95-4	Magnesium, Dissolved	4.36	0.100	0.015	
7439-96-5	Manganese, Dissolved	0.0336	0.0100	0.002	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.002	U
7440-09-7	Potassium, Dissolved	2.74	2.50	0.237	
7782-49-2	Selenium, Dissolved	ND	0.0100	0.004	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.003	U
7440-23-5	Sodium, Dissolved	72.5	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.003	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.002	U
7440-66-6	Zinc, Dissolved	0.0036	0.0050	0.002	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976217-6	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 09/26/24 17:52
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1976462.csv	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Dissolved	14.6	0.500	0.175	
7439-95-4	Magnesium, Dissolved	4.13	0.500	0.077	
7440-23-5	Sodium, Dissolved	69.1	10.0	0.600	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976262-1	**Date Collected**	: NA
Client ID	: WG1976262-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/26/24 13:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1976586.pdf	**Instrument ID**	: TRACE4
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	ND	0.100	0.0350	U
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	ND	0.100	0.0153	U
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	ND	2.50	0.237	U
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	ND	2.00	0.120	U
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 17:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1977137.pdf	**Instrument ID**	: TRACE4
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0160	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	13.6	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	6.22	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.50	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	21.4	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 14:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1977137.pdf	**Instrument ID**	: TRACE4
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0162	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	14.2	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0756	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	6.44	0.100	0.0153	
7439-96-5	Manganese, Total	0.0225	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.53	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	21.3	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1880462-1									
Date Analyzed	:	09/26/24 04:31									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum		0.500	0.4950	99							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1880462-3			R1880462-6			R1880462-8		R1880462-10	
Date Analyzed	:	09/26/24 04:41			09/26/24 06:13			09/26/24 06:25		09/26/24 07:17	
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum		0.500	0.4900	98	0.5000	0.493	99	0.491	98	0.495	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880462-12			R1880462-14		R1880462-16	
Date Analyzed :				09/26/24 07:43			09/26/24 08:35		09/26/24 09:28	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.487	97	0.494	99	0.498	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880462-18			R1880462-20		R1880462-22	
Date Analyzed :				09/26/24 09:41			09/26/24 10:37		09/26/24 11:17	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.482	96	0.480	96	0.457	91

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880462-24						
Date Analyzed :				09/26/24 11:27						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.460	92				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1880462-26									
Date Analyzed	:	09/26/24 11:53									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum		0.500	0.4950	99							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1880462-28			R1880462-30			R1880462-32		R1880462-34	
Date Analyzed :	09/26/24 12:01			09/26/24 12:41			09/26/24 13:27		09/26/24 14:17	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4910	98	0.5000	0.484	97	0.492	98	0.492	98

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880462-36			R1880462-38		R1880462-40	
Date Analyzed :				09/26/24 15:06			09/26/24 15:58		09/26/24 16:48	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.500	100	0.495	99	0.494	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880462-42			R1880462-44		R1880462-46	
Date Analyzed :				09/26/24 16:59			09/26/24 17:31		09/26/24 18:17	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.492	98	0.487	97	0.490	98

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1880535-1									
Date Analyzed	:	09/26/24 07:12									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony		0.500	0.5170	103							
Arsenic		0.500	0.4880	98							
Barium		0.500	0.4960	99							
Beryllium		0.500	0.5130	103							
Cadmium		0.500	0.5040	101							
Calcium		0.500	0.4920	98							
Chromium		0.500	0.4980	100							
Cobalt		0.500	0.5140	103							
Copper		0.500	0.4980	100							
Iron		0.500	0.5050	101							
Lead		0.500	0.5080	102							
Magnesium		0.500	0.4930	99							
Manganese		0.500	0.4920	98							
Nickel		0.500	0.5130	103							
Potassium		5.00	5.1600	103							
Selenium		0.500	0.4980	100							
Silver		0.500	0.5090	102							
Sodium		10.0	9.9500	100							
Thallium		0.500	0.5070	101							
Vanadium		0.500	0.4950	99							
Zinc		0.500	0.5140	103							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1880535-3			R1880535-6			R1880535-8		R1880535-10	
Date Analyzed:	09/26/24 07:24			09/26/24 10:01			09/26/24 10:49		09/26/24 11:20	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony	0.500	0.5090	102	0.5000	0.518	104	0.505	101	0.506	101
Arsenic	0.500	0.4890	98	0.5000	0.491	98	0.481	96	0.484	97
Barium	0.500	0.5080	102	0.5000	0.500	100	0.496	99	0.499	100
Beryllium	0.500	0.5200	104	0.5000	0.513	103	0.508	102	0.510	102
Cadmium	0.500	0.4990	100	0.5000	0.500	100	0.501	100	0.495	99
Calcium	0.500	0.5010	100	0.5000	0.493	99	0.492	98	0.496	99
Chromium	0.500	0.4920	98	0.5000	0.493	99	0.492	98	0.491	98
Cobalt	0.500	0.5080	102	0.5000	0.513	103	0.509	102	0.507	101
Copper	0.500	0.4930	99	0.5000	0.493	99	0.490	98	0.490	98
Iron	0.500	0.5120	102	0.5000	0.504	101	0.500	100	0.505	101
Lead	0.500	0.5050	101	0.5000	0.501	100	0.495	99	0.499	100
Magnesium	0.500	0.4890	98	0.5000	0.496	99	0.489	98	0.489	98
Manganese	0.500	0.4990	100	0.5000	0.493	99	0.491	98	0.492	98
Nickel	0.500	0.5090	102	0.5000	0.511	102	0.509	102	0.510	102
Potassium	5.00	5.2900	106	5.0000	5.20	104	5.18	104	5.21	104
Selenium	0.500	0.5070	101	0.5000	0.510	102	0.499	100	0.500	100
Silver	0.500	0.5120	102	0.5000	0.514	103	0.508	102	0.507	101
Sodium	10.0	10.2000	102	10.0000	10.0	100	9.98	100	10.1	101
Thallium	0.500	0.5040	101	0.5000	0.496	99	0.497	99	0.498	100
Vanadium	0.500	0.4890	98	0.5000	0.491	98	0.488	98	0.489	98
Zinc	0.500	0.5090	102	0.5000	0.516	103	0.510	102	0.511	102

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880535-12			R1880535-14		R1880535-16	
Date Analyzed :				09/26/24 12:20			09/26/24 13:08		09/26/24 13:28	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony				0.5000	0.511	102	0.496	99	0.500	100
Arsenic				0.5000	0.484	97	0.475	95	0.474	95
Barium				0.5000	0.501	100	0.489	98	0.490	98
Beryllium				0.5000	0.513	103	0.502	100	0.504	101
Cadmium				0.5000	0.502	100	0.490	98	0.499	100
Calcium				0.5000	0.493	99	0.483	97	0.488	98
Chromium				0.5000	0.493	99	0.480	96	0.484	97
Cobalt				0.5000	0.515	103	0.499	100	0.504	101
Copper				0.5000	0.492	98	0.482	96	0.484	97
Iron				0.5000	0.508	102	0.492	98	0.496	99
Lead				0.5000	0.502	100	0.493	99	0.492	98
Magnesium				0.5000	0.492	98	0.476	95	0.481	96
Manganese				0.5000	0.495	99	0.480	96	0.482	96
Nickel				0.5000	0.512	102	0.496	99	0.499	100
Potassium				5.0000	5.19	104	5.12	102	5.13	103
Selenium				0.5000	0.502	100	0.491	98	0.491	98
Silver				0.5000	0.509	102	0.495	99	0.501	100
Sodium				10.0000	10.1	101	9.82	98	9.84	98
Thallium				0.5000	0.498	100	0.489	98	0.489	98
Vanadium				0.5000	0.491	98	0.478	96	0.482	96
Zinc				0.5000	0.512	102	0.497	99	0.502	100

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880535-18			R1880535-20		R1880535-22	
Date Analyzed:				09/26/24 14:14			09/26/24 15:04		09/26/24 16:01	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony				0.5000	0.486	97	0.496	99	0.505	101
Arsenic				0.5000	0.469	94	0.473	95	0.478	96
Barium				0.5000	0.481	96	0.482	96	0.492	98
Beryllium				0.5000	0.495	99	0.495	99	0.502	100
Cadmium				0.5000	0.493	99	0.491	98	0.497	99
Calcium				0.5000	0.478	96	0.479	96	0.486	97
Chromium				0.5000	0.478	96	0.476	95	0.483	97
Cobalt				0.5000	0.497	99	0.498	100	0.507	101
Copper				0.5000	0.476	95	0.476	95	0.482	96
Iron				0.5000	0.486	97	0.493	99	0.502	100
Lead				0.5000	0.486	97	0.485	97	0.491	98
Magnesium				0.5000	0.475	95	0.476	95	0.498	100
Manganese				0.5000	0.471	94	0.473	95	0.481	96
Nickel				0.5000	0.492	98	0.488	98	0.495	99
Potassium				5.0000	5.03	101	5.00	100	5.15	103
Selenium				0.5000	0.487	97	0.491	98	0.494	99
Silver				0.5000	0.495	99	0.494	99	0.500	100
Sodium				10.0000	9.65	96	9.62	96	9.75	98
Thallium				0.5000	0.485	97	0.482	96	0.489	98
Vanadium				0.5000	0.476	95	0.475	95	0.481	96
Zinc				0.5000	0.495	99	0.493	99	0.500	100

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880535-24			R1880535-26		R1880535-28	
Date Analyzed :				09/26/24 17:03			09/26/24 17:12		09/26/24 18:07	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony				0.5000	0.475	95	0.493	99	0.491	98
Arsenic				0.5000	0.450	90	0.465	93	0.467	93
Barium				0.5000	0.458	92	0.463	93	0.478	96
Beryllium				0.5000	0.467	93	0.477	95	0.492	98
Cadmium				0.5000	0.472	94	0.487	97	0.488	98
Calcium				0.5000	0.446	89	0.454	91	0.474	95
Chromium				0.5000	0.456	91	0.467	93	0.474	95
Cobalt				0.5000	0.480	96	0.492	98	0.495	99
Copper				0.5000	0.456	91	0.469	94	0.473	95
Iron				0.5000	0.458	92	0.469	94	0.483	97
Lead				0.5000	0.467	93	0.476	95	0.485	97
Magnesium				0.5000	0.454	91	0.469	94	0.470	94
Manganese				0.5000	0.444	89	0.454	91	0.468	94
Nickel				0.5000	0.468	94	0.480	96	0.486	97
Potassium				5.0000	4.76	95	4.83	97	5.00	100
Selenium				0.5000	0.469	94	0.478	96	0.476	95
Silver				0.5000	0.476	95	0.481	96	0.484	97
Sodium				10.0000	9.10	91	9.20	92	9.52	95
Thallium				0.5000	0.464	93	0.470	94	0.480	96
Vanadium				0.5000	0.457	91	0.468	94	0.474	95
Zinc				0.5000	0.471	94	0.485	97	0.487	97

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1880720-1			R1880720-4			R1880720-6			
Date Analyzed :	09/26/24 09:09			09/26/24 13:07			09/26/24 14:23			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4980	100	0.5000	0.516	103	0.521	104		
Antimony	0.500	0.4770	95	0.5000	0.488	98	0.494	99		
Arsenic	0.500	0.4930	99	0.5000	0.501	100	0.506	101		
Barium	0.500	0.4940	99	0.5000	0.515	103	0.523	105		
Beryllium	0.500	0.5060	101	0.5000	0.510	102	0.512	102		
Cadmium	0.500	0.5000	100	0.5000	0.495	99	0.491	98		
Calcium	0.500	0.5010	100	0.5000	0.503	101	0.499	100		
Chromium	0.500	0.4930	99	0.5000	0.497	99	0.493	99		
Cobalt	0.500	0.4790	96	0.5000	0.476	95	0.476	95		
Copper	0.500	0.4810	96	0.5000	0.510	102	0.515	103		
Iron	0.500	0.5050	101	0.5000	0.507	101	0.510	102		
Lead	0.500	0.4840	97	0.5000	0.480	96	0.480	96		
Magnesium	0.500	0.4980	100	0.5000	0.520	104	0.515	103		
Manganese	0.500	0.4980	100	0.5000	0.491	98	0.490	98		
Nickel	0.500	0.4790	96	0.5000	0.469	94	0.469	94		
Potassium	5.00	5.1600	103	5.0000	5.23	105	5.43	109		
Selenium	0.500	0.5020	100	0.5000	0.507	101	0.513	103		
Silver	0.500	0.4970	99	0.5000	0.516	103	0.519	104		
Sodium	10.0	9.7800	98	10.0000	10.2	102	10.6	106		
Thallium	0.500	0.4960	99	0.5000	0.498	100	0.502	100		
Vanadium	0.500	0.4880	98	0.5000	0.503	101	0.502	100		
Zinc	0.500	0.4740	95	0.5000	0.456	91	0.449	90		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1880768-1									
Date Analyzed	:	09/26/24 11:39									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony		0.500	0.5100	102							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1880768-3			R1880768-6			R1880768-8		R1880768-10	
Date Analyzed :	09/26/24 11:52			09/26/24 14:00			09/26/24 14:16		09/26/24 15:55	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony	0.500	0.5210	104	0.5000	0.521	104	0.527	105	0.530	106

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880768-12			R1880768-14		R1880768-16	
Date Analyzed :				09/26/24 17:04			09/26/24 18:20		09/26/24 18:43	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony				0.5000	0.521	104	0.512	102	0.525	105

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1881167-1			R1881167-4			R1881167-6		R1881167-8	
Date Analyzed:	09/27/24 09:30			09/27/24 12:26			09/27/24 13:51		09/27/24 15:10	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4990	100	0.5000	0.502	100	0.503	101	0.511	102
Antimony	0.500	0.4870	97	0.5000	0.475	95	0.478	96	0.483	97
Arsenic	0.500	0.5030	101	0.5000	0.493	99	0.494	99	0.498	100
Barium	0.500	0.4980	100	0.5000	0.501	100	0.498	100	0.501	100
Beryllium	0.500	0.5070	101	0.5000	0.508	102	0.507	101	0.508	102
Cadmium	0.500	0.5070	101	0.5000	0.506	101	0.504	101	0.501	100
Calcium	0.500	0.5070	101	0.5000	0.519	104	0.508	102	0.507	101
Chromium	0.500	0.5030	101	0.5000	0.504	101	0.504	101	0.497	99
Cobalt	0.500	0.4880	98	0.5000	0.479	96	0.482	96	0.483	97
Copper	0.500	0.4910	98	0.5000	0.484	97	0.479	96	0.485	97
Iron	0.500	0.5040	101	0.5000	0.508	102	0.506	101	0.508	102
Lead	0.500	0.4930	99	0.5000	0.480	96	0.488	98	0.488	98
Magnesium	0.500	0.5110	102	0.5000	0.519	104	0.505	101	0.505	101
Manganese	0.500	0.4990	100	0.5000	0.501	100	0.497	99	0.496	99
Nickel	0.500	0.4900	98	0.5000	0.475	95	0.485	97	0.485	97
Potassium	5.00	5.1600	103	5.0000	5.03	101	5.14	103	5.22	104
Selenium	0.500	0.5110	102	0.5000	0.496	99	0.503	101	0.508	102
Silver	0.500	0.5030	101	0.5000	0.504	101	0.496	99	0.496	99
Sodium	10.0	9.7800	98	10.0000	9.55	96	9.78	98	9.95	100
Thallium	0.500	0.5060	101	0.5000	0.492	98	0.500	100	0.503	101
Vanadium	0.500	0.5000	100	0.5000	0.499	100	0.499	100	0.496	99
Zinc	0.500	0.4810	96	0.5000	0.477	95	0.480	96	0.473	95

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1881167-10			R1881167-12		R1881167-14	
Date Analyzed:				09/27/24 16:29			09/27/24 17:14		09/27/24 18:35	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.512	102	0.502	100	0.500	100
Antimony				0.5000	0.482	96	0.504	101	0.504	101
Arsenic				0.5000	0.498	100	0.504	101	0.505	101
Barium				0.5000	0.506	101	0.509	102	0.506	101
Beryllium				0.5000	0.504	101	0.499	100	0.493	99
Cadmium				0.5000	0.497	99	0.484	97	0.486	97
Calcium				0.5000	0.503	101	0.479	96	0.474	95
Chromium				0.5000	0.496	99	0.478	96	0.475	95
Cobalt				0.5000	0.481	96	0.494	99	0.494	99
Copper				0.5000	0.489	98	0.491	98	0.492	98
Iron				0.5000	0.498	100	0.488	98	0.486	97
Lead				0.5000	0.483	97	0.491	98	0.493	99
Magnesium				0.5000	0.508	102	0.486	97	0.482	96
Manganese				0.5000	0.492	98	0.478	96	0.475	95
Nickel				0.5000	0.480	96	0.493	99	0.495	99
Potassium				5.0000	5.14	103	5.18	104	5.34	107
Selenium				0.5000	0.505	101	0.512	102	0.515	103
Silver				0.5000	0.503	101	0.487	97	0.486	97
Sodium				10.0000	9.91	99	9.99	100	9.32	93
Thallium				0.5000	0.500	100	0.512	102	0.514	103
Vanadium				0.5000	0.497	99	0.488	98	0.485	97
Zinc				0.5000	0.467	93	0.458	92	0.460	92

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1881167-1			R1881167-4			R1881167-6		R1881167-8	
Date Analyzed:	09/27/24 09:30			09/27/24 12:26			09/27/24 13:51		09/27/24 15:10	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4990	100	0.5000	0.502	100	0.503	101	0.511	102
Antimony	0.500	0.4870	97	0.5000	0.475	95	0.478	96	0.483	97
Arsenic	0.500	0.5030	101	0.5000	0.493	99	0.494	99	0.498	100
Barium	0.500	0.4980	100	0.5000	0.501	100	0.498	100	0.501	100
Beryllium	0.500	0.5070	101	0.5000	0.508	102	0.507	101	0.508	102
Cadmium	0.500	0.5070	101	0.5000	0.506	101	0.504	101	0.501	100
Calcium	0.500	0.5070	101	0.5000	0.519	104	0.508	102	0.507	101
Chromium	0.500	0.5030	101	0.5000	0.504	101	0.504	101	0.497	99
Cobalt	0.500	0.4880	98	0.5000	0.479	96	0.482	96	0.483	97
Copper	0.500	0.4910	98	0.5000	0.484	97	0.479	96	0.485	97
Iron	0.500	0.5040	101	0.5000	0.508	102	0.506	101	0.508	102
Lead	0.500	0.4930	99	0.5000	0.480	96	0.488	98	0.488	98
Magnesium	0.500	0.5110	102	0.5000	0.519	104	0.505	101	0.505	101
Manganese	0.500	0.4990	100	0.5000	0.501	100	0.497	99	0.496	99
Nickel	0.500	0.4900	98	0.5000	0.475	95	0.485	97	0.485	97
Potassium	5.00	5.1600	103	5.0000	5.03	101	5.14	103	5.22	104
Selenium	0.500	0.5110	102	0.5000	0.496	99	0.503	101	0.508	102
Silver	0.500	0.5030	101	0.5000	0.504	101	0.496	99	0.496	99
Sodium	10.0	9.7800	98	10.0000	9.55	96	9.78	98	9.95	100
Thallium	0.500	0.5060	101	0.5000	0.492	98	0.500	100	0.503	101
Vanadium	0.500	0.5000	100	0.5000	0.499	100	0.499	100	0.496	99
Zinc	0.500	0.4810	96	0.5000	0.477	95	0.480	96	0.473	95

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1880462-2		R1880462-7		R1880462-9		R1880462-11		WG1976217-1	
Date Analyzed	:	09/26/24 04:35		09/26/24 06:17		09/26/24 06:29		09/26/24 07:21		09/26/24 17:40	
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum		0.0318	U	0.0318	U	0.0318	U	0.0318	U	0.0318	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1880462-4		R1880462-13		R1880462-15		R1880462-17			
Date Analyzed	:	09/26/24 04:45		09/26/24 07:47		09/26/24 08:39		09/26/24 09:32			
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum		0.0318	U	0.0318	U	0.0318	U	0.0318	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1880462-27		R1880462-19		R1880462-21		R1880462-23			
Date Analyzed	:	09/26/24 11:57		09/26/24 09:45		09/26/24 10:41		09/26/24 11:21			
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum		0.0318	U	0.0318	U	0.0318	U	0.0318	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1880462-29		R1880462-25		R1880462-31		R1880462-33			
Date Analyzed	:	09/26/24 12:05		09/26/24 11:31		09/26/24 12:45		09/26/24 13:31			
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum		0.0318	U	0.0318	U	0.0318	U	0.0318	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1880462-35		R1880462-37		R1880462-39			
Date Analyzed :			09/26/24 14:21		09/26/24 15:09		09/26/24 16:02			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U	0.0318	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1880462-41		R1880462-43		R1880462-45			
Date Analyzed :			09/26/24 16:52		09/26/24 17:03		09/26/24 17:35			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U	0.0318	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1880462-47							
Date Analyzed :			09/26/24 18:21							
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U						

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1880535-2		R1880535-7		R1880535-9		R1880535-11		WG1976217-1	
Date Analyzed :	09/26/24 07:16		09/26/24 10:05		09/26/24 10:53		09/26/24 11:24		09/26/24 17:28	
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U	0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U	0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U	0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U	0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U	0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U	0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U	0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U	0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U	0.0024	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00465	J	0.00350	U	0.00350	U	0.00388	J	0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U	0.0028	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U	0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1880535-4		R1880535-13		R1880535-15		R1880535-17			
Date Analyzed :	09/26/24 07:28		09/26/24 12:24		09/26/24 13:11		09/26/24 13:32			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		
Selenium	0.00493	J	0.00350	U	0.00519	J	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1880535-19		R1880535-21		R1880535-23			
Date Analyzed :			09/26/24 14:18		09/26/24 15:08		09/26/24 16:05			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00334	J		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00420	J	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1880535-25		R1880535-27		R1880535-29			
Date Analyzed :			09/26/24 17:07		09/26/24 17:18		09/26/24 18:11			
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00414	J	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1880720-2		R1880720-5		R1880720-7				WG1976262-1	
Date Analyzed :	09/26/24 09:15		09/26/24 13:13		09/26/24 14:29				09/26/24 13:20	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum	0.0318	U	0.0318	U	0.0318	U			0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U			0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00190	U			0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U			0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U			0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U			0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U			0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U			0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U			0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U			0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U			0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U			0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U			0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U			0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U			0.0024	U
Potassium	0.237	U	0.237	U	0.237	U			0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U			0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U			0.0028	U
Sodium	0.120	U	0.120	U	0.120	U			0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U			0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U			0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U			0.0021	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1880768-2		R1880768-7		R1880768-9		R1880768-11			
Date Analyzed :	09/26/24 11:45		09/26/24 14:06		09/26/24 14:23		09/26/24 16:01			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1880768-4		R1880768-13		R1880768-15		R1880768-17			
Date Analyzed :	09/26/24 11:58		09/26/24 17:10		09/26/24 18:26		09/26/24 18:49			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1881167-2		R1881167-5		R1881167-7		R1881167-9			
Date Analyzed :	09/27/24 09:36		09/27/24 12:32		09/27/24 13:57		09/27/24 15:16			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1881167-11		R1881167-13		R1881167-15			
Date Analyzed :			09/27/24 16:35		09/27/24 17:20		09/27/24 18:41			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1881167-2		R1881167-5		R1881167-7		R1881167-9			
Date Analyzed :	09/27/24 09:36		09/27/24 12:32		09/27/24 13:57		09/27/24 15:16			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Concentration Units**	: mg/l

		True		Initial Found				Final Found			
Lab ID	:			R1880462-5							
Analysis Date	:			09/26/24 04:53							
Analyte		**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum		500		501.	100						

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1880535-5							
Analysis Date :			09/26/24 07:35							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Antimony			-0.0121							
Arsenic			0.00126							
Barium			0.00155							
Beryllium			0.000112							
Cadmium			-0.000691							
Calcium	500		536.	107						
Chromium			0.000762							
Cobalt			-0.000638							
Copper			0.000190							
Iron	200		178.	89						
Lead			-0.0000960							
Magnesium	500		460.	92						
Manganese			-0.000607							
Nickel			-0.000140							
Potassium			-0.00332							
Selenium			0.00234							
Silver			0.00222							
Sodium			0.0127							
Thallium			0.00406							
Vanadium			0.00169							
Zinc			0.000136							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1880720-3							
Analysis Date :			09/26/24 09:30							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		523.	105						
Antimony			-0.0190							
Arsenic			-0.00395							
Barium			0.000763							
Beryllium			-0.000431							
Cadmium			-0.00236							
Calcium	500		563.	113						
Chromium			0.00181							
Cobalt			0.00114							
Copper			0.000860							
Iron	200		185.	92						
Lead			0.00469							
Magnesium	500		442.	88						
Manganese			0.00194							
Nickel			0.0121							
Potassium			0.0264							
Selenium			0.00114							
Silver			0.00108							
Sodium			0.0217							
Thallium			-0.00144							
Vanadium			-0.00292							
Zinc			-0.00257							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1880768-5							
Analysis Date :			09/26/24 12:10							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Antimony			0.00795							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1881167-3							
Analysis Date :			09/27/24 09:50							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		520.	104						
Antimony			-0.0192							
Arsenic			-0.00374							
Barium			0.000736							
Beryllium			-0.000449							
Cadmium			-0.00246							
Calcium	500		568.	114						
Chromium			0.00156							
Cobalt			0.00137							
Copper			0.000997							
Iron	200		186.	93						
Lead			0.00844							
Magnesium	500		435.	87						
Manganese			0.00182							
Nickel			-0.00466							
Potassium			0.00115							
Selenium			-0.00228							
Silver			0.00119							
Sodium			0.0222							
Thallium			-0.00222							
Vanadium			-0.00284							
Zinc			-0.00285							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1881167-3							
Analysis Date :			09/27/24 09:50							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		520.	104						
Antimony			-0.0192							
Arsenic			-0.00374							
Barium			0.000736							
Beryllium			-0.000449							
Cadmium			-0.00246							
Calcium	500		568.	114						
Chromium			0.00156							
Cobalt			0.00137							
Copper			0.000997							
Iron	200		186.	93						
Lead			0.00844							
Magnesium	500		435.	87						
Manganese			0.00182							
Nickel			-0.00466							
Potassium			0.00115							
Selenium			-0.00228							
Silver			0.00119							
Sodium			0.0222							
Thallium			-0.00222							
Vanadium			-0.00284							
Zinc			-0.00285							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2454059-01		
Matrix Spike	: WG1976217-3	**MS Analysis Date**	: 09/26/24 18:01
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	ND	2	2.00	100					75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2454059-01		
Matrix Spike	: WG1976217-3	**MS Analysis Date**	: 09/26/24 17:40
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Antimony, Dissolved	ND	0.5	0.390	78					75-125	20
Arsenic, Dissolved	ND	0.12	0.119	99					75-125	20
Barium, Dissolved	0.0986	2	2.03	96					75-125	20
Beryllium, Dissolved	ND	0.05	0.0496	99					75-125	20
Cadmium, Dissolved	ND	0.053	0.0516	97					75-125	20
Calcium, Dissolved	14.8	10	25.2	104					75-125	20
Chromium, Dissolved	ND	0.2	0.190	95					75-125	20
Cobalt, Dissolved	ND	0.5	0.482	96					75-125	20
Copper, Dissolved	0.0026J	0.25	0.242	97					75-125	20
Iron, Dissolved	0.0122J	1	0.995	100					75-125	20
Lead, Dissolved	ND	0.53	0.515	97					75-125	20
Magnesium, Dissolved	4.23	10	13.8	96					75-125	20
Manganese, Dissolved	0.0322	0.5	0.514	96					75-125	20
Nickel, Dissolved	ND	0.5	0.474	95					75-125	20
Potassium, Dissolved	2.62	10	12.8	102					75-125	20
Selenium, Dissolved	0.0044J	0.12	0.122	102					75-125	20
Silver, Dissolved	ND	0.05	0.0492	98					75-125	20
Sodium, Dissolved	69.0	10	81.7	127 Q					75-125	20
Thallium, Dissolved	ND	0.12	0.116	97					75-125	20
Vanadium, Dissolved	ND	0.5	0.489	98					75-125	20
Zinc, Dissolved	0.0034J	0.5	0.498	100					75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2454206-05		
Matrix Spike	: WG1976262-3	**MS Analysis Date**	: 09/26/24 13:58
Matrix Spike Dup	: WG1976262-4	**MSD Analysis Date**	: 09/26/24 14:05

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	0.093J	2	2.30	115	2	2.31	116	0	75-125	20
Antimony, Total	ND	0.5	0.529	106	0.5	0.540	108	2	75-125	20
Arsenic, Total	ND	0.12	0.130	108	0.12	0.133	111	2	75-125	20
Barium, Total	0.042	2	2.22	109	2	2.24	110	1	75-125	20
Beryllium, Total	ND	0.05	0.0525	105	0.05	0.0528	106	1	75-125	20
Cadmium, Total	ND	0.053	0.0524	99	0.053	0.0536	101	2	75-125	20
Calcium, Total	25.9	10	36.1	102	10	36.5	106	1	75-125	20
Chromium, Total	ND	0.2	0.196	98	0.2	0.202	101	3	75-125	20
Cobalt, Total	ND	0.5	0.482	96	0.5	0.494	99	2	75-125	20
Copper, Total	ND	0.25	0.273	109	0.25	0.281	112	3	75-125	20
Iron, Total	0.307	1	1.36	105	1	1.37	106	1	75-125	20
Lead, Total	ND	0.53	0.521	98	0.53	0.534	101	2	75-125	20
Magnesium, Total	5.52	10	15.5	100	10	15.9	104	3	75-125	20
Manganese, Total	0.057	0.5	0.564	101	0.5	0.568	102	1	75-125	20
Nickel, Total	ND	0.5	0.479	96	0.5	0.491	98	2	75-125	20
Potassium, Total	4.44	10	15.9	115	10	16.0	116	1	75-125	20
Selenium, Total	ND	0.12	0.131	109	0.12	0.134	112	2	75-125	20
Silver, Total	ND	0.05	0.0540	108	0.05	0.0556	111	3	75-125	20
Sodium, Total	24.8	10	35.8	110	10	36.0	112	1	75-125	20
Thallium, Total	ND	0.12	0.119	99	0.12	0.122	102	2	75-125	20
Vanadium, Total	ND	0.5	0.512	102	0.5	0.526	105	3	75-125	20
Zinc, Total	ND	0.5	0.461	92	0.5	0.472	94	2	75-125	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/26/24 17:57
Dup Sample ID	: WG1976217-4	**DUP Analysis Date**	: 09/26/24 18:05

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Aluminum, Dissolved	ND	ND	NC	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/26/24 17:36
Dup Sample ID	: WG1976217-4	**DUP Analysis Date**	: 09/26/24 17:44

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Antimony, Dissolved	ND	ND	NC	20
Arsenic, Dissolved	ND	ND	NC	20
Barium, Dissolved	0.0986	0.104	5	20
Beryllium, Dissolved	ND	ND	NC	20
Cadmium, Dissolved	ND	ND	NC	20
Calcium, Dissolved	14.8	15.6	5	20
Chromium, Dissolved	ND	ND	NC	20
Cobalt, Dissolved	ND	ND	NC	20
Copper, Dissolved	0.0026J	0.0031J	NC	20
Iron, Dissolved	0.0122J	0.0158J	NC	20
Lead, Dissolved	ND	ND	NC	20
Magnesium, Dissolved	4.23	4.36	3	20
Manganese, Dissolved	0.0322	0.0336	4	20
Nickel, Dissolved	ND	ND	NC	20
Potassium, Dissolved	2.62	2.74	4	20
Selenium, Dissolved	0.0044J	ND	NC	20
Silver, Dissolved	ND	ND	NC	20
Sodium, Dissolved	69.0	72.5	5	20
Thallium, Dissolved	ND	ND	NC	20
Vanadium, Dissolved	ND	ND	NC	20
Zinc, Dissolved	0.0034J	0.0036J	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1976217-2	**LCS Analysis Date**	: 09/26/24 17:49
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Aluminum, Dissolved	**2.00**	**1.93**	**96.**					**85-115**	**20**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1976217-2	**LCS Analysis Date**	: 09/26/24 17:32
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Arsenic, Dissolved	0.120	0.111	92.					85-115	20
Barium, Dissolved	2.00	1.86	93.					85-115	20
Beryllium, Dissolved	0.0500	0.0473	95.					85-115	20
Cadmium, Dissolved	0.0530	0.0506	95.					85-115	20
Calcium, Dissolved	10.0	9.35	94.					85-115	20
Chromium, Dissolved	0.200	0.185	92.					85-115	20
Cobalt, Dissolved	0.500	0.474	95.					85-115	20
Copper, Dissolved	0.250	0.234	94.					85-115	20
Iron, Dissolved	1.00	0.951	95.					85-115	20
Lead, Dissolved	0.530	0.504	95.					85-115	20
Magnesium, Dissolved	10.0	9.44	94.					85-115	20
Manganese, Dissolved	0.500	0.465	93.					85-115	20
Nickel, Dissolved	0.500	0.469	94.					85-115	20
Potassium, Dissolved	10.0	9.68	97.					85-115	20
Selenium, Dissolved	0.120	0.116	97.					85-115	20
Silver, Dissolved	0.0500	0.0490	98.					85-115	20
Sodium, Dissolved	10.0	9.52	95.					85-115	20
Thallium, Dissolved	0.120	0.113	94.					85-115	20
Vanadium, Dissolved	0.500	0.473	95.					85-115	20
Zinc, Dissolved	0.500	0.477	95.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1976262-2	**LCS Analysis Date**	: 09/26/24 13:27
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	2.00	2.19	110.					85-115	20
Antimony, Total	0.500	0.514	103.					85-115	20
Arsenic, Total	0.120	0.125	104.					85-115	20
Barium, Total	2.00	2.16	108.					85-115	20
Beryllium, Total	0.0500	0.0522	104.					85-115	20
Cadmium, Total	0.0530	0.0538	102.					85-115	20
Calcium, Total	10.0	10.2	102.					85-115	20
Chromium, Total	0.200	0.201	100.					85-115	20
Cobalt, Total	0.500	0.483	97.					85-115	20
Copper, Total	0.250	0.274	110.					85-115	20
Iron, Total	1.00	1.06	106.					85-115	20
Lead, Total	0.530	0.525	99.					85-115	20
Magnesium, Total	10.0	10.5	105.					85-115	20
Manganese, Total	0.500	0.514	103.					85-115	20
Nickel, Total	0.500	0.479	96.					85-115	20
Potassium, Total	10.0	11.4	114.					85-115	20
Selenium, Total	0.120	0.126	105.					85-115	20
Silver, Total	0.0500	0.0546	109.					85-115	20
Sodium, Total	10.0	11.5	115.					85-115	20
Thallium, Total	0.120	0.120	100.					85-115	20
Vanadium, Total	0.500	0.517	103.					85-115	20
Zinc, Total	0.500	0.459	92.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1976217-2	**LCS Analysis Date**	: 09/26/24 18:37
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Antimony, Dissolved	0.500	0.513	103.					85-115	20

Form 8
Serial Dilutions

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2454059-01	**Analysis Date**	: 09/26/24 17:36
Serial Dilution ID	: WG1976217-6	**Analysis Date**	: 09/26/24 17:52

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Calcium, Dissolved	14.8	14.6	1	20
Magnesium, Dissolved	4.23	4.13	2	20
Sodium, Dissolved	69.0	69.1	0	20

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10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	__
Aluminum	396.15	0.0000000	0.0000020	-0.0000310	-0.0000090	
Antimony	206.83	-0.0000020	0.0000040	-0.0000110	-0.0000050	
Arsenic	189.04	0.0000090	-0.0000010	-0.0000700	0.0000000	
Barium	455.40	-0.0000040	-0.0000020	-0.0000110	-0.0000010	
Beryllium	313.40	-0.0000020	-0.0000020	-0.0000050	0.0000000	
Cadmium	214.44	0.0000000	-0.0000030	0.0000000	-0.0000010	
Calcium	315.89	0.0000780	0.0000000	-0.0000170	0.0000710	
Chromium	267.72	0.0000050	-0.0000020	0.0000120	0.0000000	
Cobalt	228.62	-0.0000120	-0.0000060	-0.0000250	-0.0000020	
Copper	324.75	-0.0000030	-0.0000020	-0.0000040	0.0000110	
Iron	259.94	0.0000180	-0.0000120	0.0000000	-0.0000030	
Lead	220.35	0.0001100	-0.0000010	0.0000180	-0.0000010	
Magnesium	279.08	-0.0000540	-0.0000280	0.0000190	0.0000000	
Manganese	257.61	-0.0000030	-0.0000020	-0.0000080	0.0000020	
Mercury						
Nickel	231.60	-0.0000130	-0.0000050	-0.0000240	-0.0000020	
Potassium	766.49	-0.0012590	-0.0007040	-0.0028490	-0.0002350	
Selenium	196.09	-0.0000200	0.0000000	-0.0000290	-0.0000010	
Silver	328.07	-0.0000040	-0.0000020	-0.0000090	-0.0000010	
Sodium	589.59	-0.0006160	-0.0005220	-0.0020960	-0.0001600	
Thallium	190.86	-0.0000060	-0.0000040	-0.0000050	-0.0000010	
Vanadium	292.40	-0.0000050	-0.0000030	0.0000100	-0.0000020	
Zinc	206.20	0.0002750	0.0000030	-0.0007990	-0.0000040	

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	-0.0022950	-0.0018570
Antimony	206.83	0.0000000	0.0000000	0.0000000	-0.0003900	-0.0000120
Arsenic	189.04	0.0000000	0.0000000	0.0000210	-0.0001780	-0.0001730
Barium	455.40	0.0000000	0.0000000	0.0000000	-0.0002050	-0.0002030
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000860
Cadmium	214.44	0.0000000	0.0000000	0.0000000	-0.0002090	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	-0.0020880	-0.0018790
Chromium	267.72	0.0000000	0.0000000	0.0000000	-0.0002010	-0.0003100
Cobalt	228.62	0.0000000	0.0000000	0.0000000	-0.0004810	-0.0004970
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0002330	-0.0002260
Iron	259.94	0.0000000	0.0000000	0.0000000	-0.0012310	-0.0009570
Lead	220.35	0.0000000	0.0000000	0.0000000	-0.0001700	-0.0001850
Magnesium	279.08	0.0000000	0.0000000	0.0000000	-0.0022440	-0.0017830
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0001950	-0.0002020
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	-0.0005490	-0.0005200
Potassium	766.49	0.0000000	0.0000000	0.0000000	-0.0522980	-0.0517110
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000060	0.0000030
Silver	328.07	0.0000000	0.0000000	0.0000000	-0.0001740	-0.0001560
Sodium	589.59	0.0000000	0.0000000	0.0000000	-0.0417330	-0.0407400
Thallium	190.86	0.0000000	0.0000000	0.0000000	-0.0002650	-0.0002240
Vanadium	292.40	0.0000000	0.0000000	0.0000000	-0.0002090	-0.0002040
Zinc	206.20	0.0000000	0.0000000	0.0000000	-0.0000320	-0.0009250

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	-0.0020320	-0.0005350	-0.0005960	0.0000000	-0.0003930
Antimony	206.83	0.0049920	-0.0001600	-0.0001410	0.0000000	-0.0001780
Arsenic	189.04	0.0002670	-0.0001290	-0.0000570	0.0000000	-0.0000030
Barium	455.40	-0.0002000	-0.0000500	-0.0000660	0.0000000	-0.0000350
Beryllium	313.40	-0.0000900	-0.0000220	-0.0000300	0.0000000	-0.0000110
Cadmium	214.44	-0.0000290	-0.0000520	-0.0000680	0.0000000	-0.0000270
Calcium	315.89	-0.0020720	0.0009940	-0.0005720	0.0000000	-0.0000920
Chromium	267.72	0.0000000	-0.0000480	-0.0000690	0.0000000	0.0001140
Cobalt	228.62	-0.0005870	0.0000000	-0.0001660	0.0000000	-0.0000740
Copper	324.75	-0.0002130	-0.0000490	0.0000000	0.0000000	0.0000300
Iron	259.94	-0.0010370	-0.0002940	-0.0003760	0.0000000	-0.0001890
Lead	220.35	-0.0001960	-0.0003260	0.0002710	0.0000000	0.0000640
Magnesium	279.08	-0.0024620	-0.0005640	-0.0008730	0.0000000	-0.0069760
Manganese	257.61	-0.0002060	-0.0000480	-0.0000750	0.0000000	0.0000000
Mercury						
Nickel	231.60	-0.0005230	-0.0002210	-0.0001810	0.0000000	-0.0000730
Potassium	766.49	-0.0512430	-0.0126240	-0.0178480	0.0000000	-0.0089880
Selenium	196.09	-0.0000520	0.0000530	-0.0000240	0.0000000	0.0003780
Silver	328.07	-0.0001430	-0.0000370	-0.0000450	0.0000000	0.0001940
Sodium	589.59	-0.0407180	-0.0097580	-0.0137660	0.0000000	-0.0070470
Thallium	190.86	-0.0000390	0.0020440	-0.0000840	-0.0000200	0.0003990
Vanadium	292.40	-0.0002210	-0.0000500	-0.0000650	0.0000000	0.0001060
Zinc	206.20	-0.0012900	0.0000070	0.0003430	0.0001200	-0.0001520

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	0.0001500	0.0000000	-0.0004550	0.0000000	0.0038670
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000380	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Lead	220.35	0.0001750	0.0000000	0.0002100	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	-0.0000350	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000100	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0017890	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	0.0000000	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	0.0000000	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0000000	0.0000000		
Vanadium	292.40	0.0011610	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

EPA 200.7, EPA 6010D		Linear Dynamic Range					
		All values are in mg/L and are 90% of the established LDR concentration.					
Instrument ID:		Trace 4	Trace 5	Trace 6	Trace 7	Trace 8	Trace 9
2023 Complete		☐	☐	☐	☐	☐	☐
Ag	Silver	36	27	9	13	90	45
Al	Aluminum	900	540	450	900	900	900
As	Arsenic	90	54	90	72	180	90
B	Boron	90	90	9	45	90	54
Ba	Barium	90	27	18	13	135	27
Be	Beryllium	27	36	9	9	11	31
Ca	Calcium	450	900	675	900	900	900
Cd	Cadmium	11	9	9	11	27	18
Co	Cobalt	90	63	45	22	135	90
Cr	Chromium	45	63	9	45	157	90
Cu	Copper	90	54	45	45	90	67
Fe	Iron	630	900	450	450	540	540
K	Potassium	900	900	675	720	900	900
Mg	Magnesium	450	900	360	900	900	900
Mn	Manganese	90	31	90	67	90	90
Mo	Molybdenum	45	36	9	22	67	45
Na	Sodium	675	900	450	405	630	900
Ni	Nickel	90	45	45	22	135	90
Pb	Lead	180	180	90	90	225	90
S	Sulfur	-	90	-	-	-	-
Sb	Antimony	22	45	45	4.5	90	45
Se	Selenium	27	27	45	22	15	45
Si	Silica	45	90	22	22	90	45
Sn	Tin	45	45	13	22	72	45
Sr	Strontium	45	45	9	9	67	45
Ti	Titanium	45	90	9	90	72	45
Tl	Thallium	45	90	45	22	135	45
V	Vanadium	90	90	90	90	112	45
Zn	Zinc	45	27	45	22	63	22

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG1976217-1	09/25/24 17:23	-	50
WG1976217-2	09/25/24 17:23	-	50
WG1976217-3	09/25/24 17:23	-	50
WG1976217-4	09/25/24 17:23	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG1976217-1	09/25/24 17:23	-	50
WG1976217-2	09/25/24 17:23	-	50
WG1976217-3	09/25/24 17:23	-	50
WG1976217-4	09/25/24 17:23	-	50
WG1976217-6	09/25/24 17:23	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG1976262-1	09/26/24 08:03	-	50
WG1976262-2	09/26/24 08:03	-	50
WG1976262-3	09/26/24 08:03	-	50
WG1976262-4	09/26/24 08:03	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG1976217-2	09/25/24 17:23	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2454352-01	09/25/24 17:23	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2454352-01	09/26/24 08:03	-	50

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 09/26/24 04:31	**End Date**	: 09/26/24 18:21

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved
R1880462-1 ICV	1	04:31:45	X
R1880462-2 ICB	1	04:35:41	X
R1880462-3 ICV	1	04:41:11	X
R1880462-4 ICB	1	04:45:14	X
R1880462-5 ICSA	1	04:53:07	X
R1880462-6 CCV	1	06:13:45	X
R1880462-7 CCB	1	06:17:48	X
R1880462-8 CCV	1	06:25:40	X
R1880462-9 CCB	1	06:29:36	X
R1880462-10 CCV	1	07:17:59	X
R1880462-11 CCB	1	07:21:55	X
R1880462-12 CCV	1	07:43:39	X
R1880462-13 CCB	1	07:47:35	X
R1880462-14 CCV	1	08:35:44	X
R1880462-15 CCB	1	08:39:41	X
R1880462-16 CCV	1	09:28:56	X
R1880462-17 CCB	1	09:32:53	X
R1880462-18 CCV	1	09:41:51	X
R1880462-19 CCB	1	09:45:51	X
R1880462-20 CCV	1	10:37:38	X
R1880462-21 CCB	1	10:41:34	X
R1880462-22 CCV	1	11:17:33	X
R1880462-23 CCB	1	11:21:38	X
R1880462-24 CCV	1	11:27:17	X
R1880462-25 CCB	1	11:31:37	X
R1880462-26 ICV	1	11:53:31	X
R1880462-27 ICB	1	11:57:33	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 09/26/24 04:31	**End Date**	: 09/26/24 18:21

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved
R1880462-28 ICV	1	12:01:29	X
R1880462-29 ICB	1	12:05:29	X
R1880462-30 CCV	1	12:41:38	X
R1880462-31 CCB	1	12:45:34	X
R1880462-32 CCV	1	13:27:49	X
R1880462-33 CCB	1	13:31:45	X
R1880462-34 CCV	1	14:17:30	X
R1880462-35 CCB	1	14:21:26	X
R1880462-36 CCV	1	15:06:01	X
R1880462-37 CCB	1	15:09:57	X
R1880462-38 CCV	1	15:58:18	X
R1880462-39 CCB	1	16:02:15	X
R1880462-40 CCV	1	16:48:02	X
R1880462-41 CCB	1	16:52:00	X
R1880462-42 CCV	1	16:59:57	X
R1880462-43 CCB	1	17:03:54	X
R1880462-44 CCV	1	17:31:27	X
R1880462-45 CCB	1	17:35:24	X
WG1976217-1 BLANK	1	17:40:57	X
WG1976217-2 LCS	1	17:49:02	X
WG1976217-3 MS	1	18:01:14	X
WG1976217-4 DUP	1	18:05:13	X
R1880462-46 CCV	1	18:17:08	X
R1880462-47 CCB	1	18:21:05	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Analysis Method**	: 19,200.7
Start Date	: 09/26/24 07:12	**End Date**	: 09/26/24 18:11

Sample Number	Dilution Factor	Analysis Time	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1880535-1 ICV	1	07:12:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-2 ICB	1	07:16:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-3 ICV	1	07:24:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-4 ICB	1	07:28:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-5 ICSA	1	07:35:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-6 CCV	1	10:01:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-7 CCB	1	10:05:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-8 CCV	1	10:49:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-9 CCB	1	10:53:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-10 CCV	1	11:20:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-11 CCB	1	11:24:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-12 CCV	1	12:20:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-13 CCB	1	12:24:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-14 CCV	1	13:08:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-15 CCB	1	13:11:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-16 CCV	1	13:28:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-17 CCB	1	13:32:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-18 CCV	1	14:14:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-19 CCB	1	14:18:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-20 CCV	1	15:04:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-21 CCB	1	15:08:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-22 CCV	1	16:01:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-23 CCB	1	16:05:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-24 CCV	1	17:03:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-25 CCB	1	17:07:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-26 CCV	1	17:12:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-27 CCB	1	17:18:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Analysis Method**	: 19,200.7
Start Date	: 09/26/24 07:12	**End Date**	: 09/26/24 18:11

Sample Number	Dilution Factor	Analysis Time	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
WG1976217-1 BLANK	1	17:28:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1976217-2 LCS	1	17:32:28		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1976217-3 MS	1	17:40:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1976217-4 DUP	1	17:44:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1976217-6 SERDIL	5	17:52:03						X						X						X			
R1880535-28 CCV	1	18:07:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880535-29 CCB	1	18:11:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4	**Analysis Method**	: 19,200.7
Start Date	: 09/26/24 09:09	**End Date**	: 09/26/24 14:29

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1880720-1 ICV	1	09:09:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880720-2 ICB	1	09:15:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880720-3 ICSA	1	09:30:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880720-4 CCV	1	13:07:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880720-5 CCB	1	13:13:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1976262-1 BLANK	1	13:20:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1976262-2 LCS	1	13:27:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1976262-3 MS	1	13:58:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1976262-4 MSD	1	14:05:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880720-6 CCV	1	14:23:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880720-7 CCB	1	14:29:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	:	**Analysis Method**	:
Start Date	: 09/26/24 11:39	**End Date**	: 09/26/24 18:49

Sample Number	Dilution Factor	Analysis Time	Antimony, Dissolved
R1880768-1 ICV	1	11:39:38	X
R1880768-2 ICB	1	11:45:41	X
R1880768-3 ICV	1	11:52:00	X
R1880768-4 ICB	1	11:58:05	X
R1880768-5 ICSA	1	12:10:39	X
R1880768-6 CCV	1	14:00:21	X
R1880768-7 CCB	1	14:06:23	X
R1880768-8 CCV	1	14:16:57	X
R1880768-9 CCB	1	14:23:00	X
R1880768-10 CCV	1	15:55:35	X
R1880768-11 CCB	1	16:01:38	X
R1880768-12 CCV	1	17:04:36	X
R1880768-13 CCB	1	17:10:39	X
R1880768-14 CCV	1	18:20:22	X
R1880768-15 CCB	1	18:26:24	X
WG1976217-2 LCS	2	18:37:40	X
R1880768-16 CCV	1	18:43:46	X
R1880768-17 CCB	1	18:49:49	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4	**Analysis Method**	: 19,200.7
Start Date	: 09/27/24 09:30	**End Date**	: 09/27/24 18:41

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1881167-1 ICV	1	09:30:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-2 ICB	1	09:36:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-3 ICSA	1	09:50:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-4 CCV	1	12:26:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-5 CCB	1	12:32:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-6 CCV	1	13:51:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-7 CCB	1	13:57:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-8 CCV	1	15:10:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-9 CCB	1	15:16:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-10 CCV	1	16:29:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-11 CCB	1	16:35:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-12 CCV	1	17:14:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-13 CCB	1	17:20:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2454352-01	1	17:29:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-14 CCV	1	18:35:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-15 CCB	1	18:41:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE4	**Analysis Method**	: 19,200.7
Start Date	: 09/27/24 09:30	**End Date**	: 09/27/24 15:16

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1881167-1 ICV	1	09:30:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-2 ICB	1	09:36:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-3 ICSA	1	09:50:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-4 CCV	1	12:26:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-5 CCB	1	12:32:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-6 CCV	1	13:51:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-7 CCB	1	13:57:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2454352-01	1	14:26:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-8 CCV	1	15:10:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1881167-9 CCB	1	15:16:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2960-2
Page: 1

METALS by 200.7, 6010C (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum	7429-90-5	0.1	0.0318	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony	7440-36-0	0.05	0.0071	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic	7440-38-2	0.005	0.0019	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium	7440-39-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium	7440-41-7	0.005	0.0009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium	7440-43-9	0.005	0.001	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium	7440-70-2	0.1	0.035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium	7440-47-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt	7440-48-4	0.02	0.0017	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper	7440-50-8	0.01	0.0022	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron	7439-89-6	0.05	0.009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead	7439-92-1	0.01	0.0027	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium	7439-95-4	0.1	0.0153	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese	7439-96-5	0.01	0.0016	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel	7440-02-0	0.025	0.0024	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium	7440-09-7	2.5	0.237	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium	7782-49-2	0.01	0.0035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver	7440-22-4	0.007	0.0028	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium	7440-23-5	2	0.12	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium	7440-28-0	0.02	0.0025	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium	7440-62-2	0.01	0.002	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc	7440-66-6	0.05	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

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

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2962-1
Page: 1

METALS by 6010C (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	4	1.08	mg/kg	48-151		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Antimony, Total	7440-36-0	2	0.152	mg/kg	1-208		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Arsenic, Total	7440-38-2	0.4	0.0832	mg/kg	79-121		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Barium, Total	7440-39-3	0.4	0.0696	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Beryllium, Total	7440-41-7	0.2	0.0132	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cadmium, Total	7440-43-9	0.4	0.0392	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Calcium, Total	7440-70-2	4	1.4	mg/kg	81-119		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Chromium, Total	7440-47-3	0.4	0.0384	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cobalt, Total	7440-48-4	0.8	0.0664	mg/kg	84-115		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Copper, Total	7440-50-8	0.4	0.1032	mg/kg	81-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Iron, Total	7439-89-6	2	0.3612	mg/kg	45-155		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Lead, Total	7439-92-1	2	0.1072	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Magnesium, Total	7439-95-4	4	0.616	mg/kg	76-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Manganese, Total	7439-96-5	0.4	0.0636	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Nickel, Total	7440-02-0	1	0.0968	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Potassium, Total	7440-09-7	100	5.76	mg/kg	71-129		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Selenium, Total	7782-49-2	0.8	0.1032	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Silver, Total	7440-22-4	0.4	0.1132	mg/kg	75-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Sodium, Total	7440-23-5	80	1.26	mg/kg	72-127		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Thallium, Total	7440-28-0	0.8	0.126	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Vanadium, Total	7440-62-2	0.4	0.0812	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Zinc, Total	7440-66-6	2	0.1172	mg/kg	82-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved

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

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: Blank DMC Trace8
Analysis started at: 9/26/2024 11:42:15 AM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-6.4 %	-0.1 %	-0.6 %	0.3 %	0.5 %	-0.3 %	-0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-2.0 %	0.2 %	-0.3 %	0.0 %	-0.2 %	-2.7 %	-0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.3 %	-0.4 %	0.4 %	0.2 %	0.5 %	0.1 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-2.6 %	0.1 %	0.3 %	1.1 %	-0.2 %	-0.2 %	-1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	2.8 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: ICAL
Analysis started at: 9/26/2024 11:46:29 AM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9997 ppm	25.0365 ppm	0.9938 ppm	0.9984 ppm	0.9991 ppm	0.9988 ppm	10.0040 ppm
Concentration per Run 2	1.0004 ppm	24.9456 ppm	1.0005 ppm	1.0001 ppm	0.9954 ppm	1.0075 ppm	10.0446 ppm
Concentration per Run 3	1.0000 ppm	25.0179 ppm	1.0057 ppm	1.0015 ppm	1.0056 ppm	0.9937 ppm	9.9515 ppm
Concentration RSD	0.0 %	0.2 %	0.6 %	0.2 %	0.5 %	0.7 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9981 ppm	0.9987 ppm	0.9967 ppm	1.0037 ppm	24.9919 ppm	35.2545 ppm	1.0065 ppm
Concentration per Run 2	1.0015 ppm	1.0017 ppm	0.9990 ppm	1.0031 ppm	24.9420 ppm	34.8007 ppm	0.9895 ppm
Concentration per Run 3	1.0003 ppm	0.9996 ppm	1.0043 ppm	0.9932 ppm	25.0661 ppm	34.9448 ppm	1.0040 ppm
Concentration RSD	0.2 %	0.2 %	0.4 %	0.6 %	0.2 %	0.7 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9914 ppm	1.0013 ppm	0.9941 ppm	24.9701 ppm	0.9982 ppm	0.9937 ppm	0.9998 ppm
Concentration per Run 2	10.0071 ppm	1.0006 ppm	0.9983 ppm	24.7588 ppm	0.9990 ppm	1.0007 ppm	1.0004 ppm
Concentration per Run 3	10.0015 ppm	0.9980 ppm	1.0075 ppm	25.2711 ppm	1.0029 ppm	1.0056 ppm	0.9998 ppm
Concentration RSD	0.1 %	0.2 %	0.7 %	1.0 %	0.3 %	0.6 %	0.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9964 ppm	10.0376 ppm	0.9943 ppm	0.9964 ppm	1.0016 ppm	0.9897 ppm	0.9986 ppm
Concentration per Run 2	0.9961 ppm	9.9945 ppm	0.9953 ppm	1.0091 ppm	0.9992 ppm	0.9986 ppm	1.0009 ppm
Concentration per Run 3	1.0076 ppm	9.9680 ppm	1.0103 ppm	0.9946 ppm	0.9993 ppm	1.0117 ppm	1.0005 ppm
Concentration RSD	0.7 %	0.4 %	0.9 %	0.8 %	0.1 %	1.1 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	94.3649 %	101.0618 %	91.8267 %	90.0982 %	99.1803 %	92.4836 %
Concentration per Run 1	0.9992 ppm	94.4276 %	101.1045 %	92.4295 %	90.1566 %	99.0605 %	92.8450 %
Concentration per Run 2	1.0009 ppm	94.4295 %	100.0096 %	91.8674 %	90.1698 %	98.3930 %	92.7012 %
Concentration per Run 3	0.9999 ppm	94.2377 %	102.0712 %	91.1833 %	89.9683 %	100.0875 %	91.9045 %
Concentration RSD	0.1 %	0.1 %	1.0 %	0.7 %	0.1 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: ICV
Analysis started at: 9/26/2024 11:53:31 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5046 ppm	0.4948 ppm	0.4841 ppm	0.4991 ppm	0.5090 ppm	0.5123 ppm	0.4972 ppm
Concentration per Run 1	0.5055 ppm	0.4962 ppm	0.4849 ppm	0.5016 ppm	0.5077 ppm	0.5151 ppm	0.4973 ppm
Concentration per Run 2	0.5045 ppm	0.4987 ppm	0.4793 ppm	0.5003 ppm	0.5098 ppm	0.5110 ppm	0.5017 ppm
Concentration per Run 3	0.5038 ppm	0.4896 ppm	0.4881 ppm	0.4955 ppm	0.5093 ppm	0.5108 ppm	0.4926 ppm
Recovery Percentage 1	100.914 %	98.967 %	96.821 %	99.828 %	101.791 %	102.460 %	99.447 %
Concentration RSD	0.2 %	1.0 %	0.9 %	0.6 %	0.2 %	0.5 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5122 ppm	0.5156 ppm	0.5009 ppm	0.4924 ppm	0.5166 ppm	5.2954 ppm	0.4990 ppm
Concentration per Run 1	0.5149 ppm	0.5176 ppm	0.5014 ppm	0.4934 ppm	0.5165 ppm	5.3080 ppm	0.4998 ppm
Concentration per Run 2	0.5119 ppm	0.5161 ppm	0.5007 ppm	0.4916 ppm	0.5172 ppm	5.3129 ppm	0.5011 ppm
Concentration per Run 3	0.5099 ppm	0.5130 ppm	0.5006 ppm	0.4922 ppm	0.5162 ppm	5.2651 ppm	0.4960 ppm
Recovery Percentage 1	102.448 %	103.112 %	100.179 %	98.481 %	103.320 %	105.907 %	99.797 %
Concentration RSD	0.5 %	0.5 %	0.1 %	0.2 %	0.1 %	0.5 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4967 ppm	0.5033 ppm	0.5106 ppm	10.2154 ppm	0.5136 ppm	0.4969 ppm	0.5084 ppm
Concentration per Run 1	0.4981 ppm	0.5029 ppm	0.5103 ppm	10.1752 ppm	0.5153 ppm	0.4964 ppm	0.5112 ppm
Concentration per Run 2	0.4957 ppm	0.5062 ppm	0.5100 ppm	10.2723 ppm	0.5138 ppm	0.4954 ppm	0.5090 ppm
Concentration per Run 3	0.4964 ppm	0.5009 ppm	0.5116 ppm	10.1986 ppm	0.5118 ppm	0.4990 ppm	0.5050 ppm
Recovery Percentage 1	99.344 %	100.667 %	102.123 %	102.154 %	102.730 %	99.384 %	101.672 %
Concentration RSD	0.2 %	0.5 %	0.2 %	0.5 %	0.3 %	0.4 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4912 ppm	5.6180 ppm	0.4893 ppm	0.4800 ppm	0.5042 ppm	0.4969 ppm	0.5015 ppm
Concentration per Run 1	0.4892 ppm	5.6226 ppm	0.4915 ppm	0.4809 ppm	0.5035 ppm	0.4973 ppm	0.5025 ppm
Concentration per Run 2	0.4891 ppm	5.6137 ppm	0.4884 ppm	0.4792 ppm	0.5015 ppm	0.4915 ppm	0.5006 ppm
Concentration per Run 3	0.4952 ppm	5.6177 ppm	0.4881 ppm	0.4798 ppm	0.5077 ppm	0.5020 ppm	0.5013 ppm
Recovery Percentage 1	98.233 %	107.010 %	97.863 %	95.993 %	100.847 %	99.390 %	100.293 %
Concentration RSD	0.7 %	0.1 %	0.4 %	0.2 %	0.6 %	1.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5120 ppm	94.1504 %	100.4991 %	93.9430 %	91.3223 %	99.1230 %	93.7414 %
Concentration per Run 1	0.5133 ppm	93.8815 %	99.5849 %	93.9396 %	91.4374 %	97.9762 %	93.6964 %
Concentration per Run 2	0.5122 ppm	94.1941 %	99.9869 %	94.0474 %	91.1602 %	98.8897 %	93.8881 %
Concentration per Run 3	0.5107 ppm	94.3757 %	101.9257 %	93.8421 %	91.3694 %	100.5030 %	93.6395 %
Recovery Percentage 1	102.409 %						
Concentration RSD	0.3 %	0.3 %	1.2 %	0.1 %	0.2 %	1.3 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: ICB
Analysis started at: 9/26/2024 11:57:33 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0048 ppm	-0.0004 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0048 ppm
Concentration per Run 1	-0.0001 ppm	0.0043 ppm	0.0018 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0070 ppm
Concentration per Run 2	0.0004 ppm	0.0104 ppm	-0.0003 ppm	0.0021 ppm	0.0001 ppm	0.0000 ppm	0.0041 ppm
Concentration per Run 3	0.0002 ppm	-0.0003 ppm	-0.0027 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0033 ppm
Recovery Percentage 1	2.655 %	4.807 %	-13.782 %	3.941 %	0.080 %	-0.303 %	4.791 %
Concentration RSD	121.1 %	112.2 %	535.8 %	68.1 %	1,134.9 %	150.6 %	40.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0014 ppm	0.0035 ppm	-0.0013 ppm	0.0012 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0006 ppm	0.0015 ppm	0.0036 ppm	-0.0011 ppm	0.0012 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0015 ppm	0.0039 ppm	-0.0169 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0011 ppm	0.0032 ppm	0.0142 ppm	0.0017 ppm
Recovery Percentage 1	0.471 %	-0.419 %	2.246 %	14.030 %	7.072 %	-0.052 %	11.861 %
Concentration RSD	364.9 %	26.6 %	150.1 %	17.0 %	9.9 %	1,202.2 %	44.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0020 ppm	0.0014 ppm	0.0000 ppm	-0.0006 ppm	-0.0017 ppm
Concentration per Run 1	0.0015 ppm	0.0001 ppm	0.0021 ppm	0.0014 ppm	-0.0003 ppm	-0.0010 ppm	-0.0021 ppm
Concentration per Run 2	0.0007 ppm	0.0002 ppm	0.0016 ppm	0.0054 ppm	0.0007 ppm	-0.0002 ppm	-0.0016 ppm
Concentration per Run 3	-0.0022 ppm	-0.0001 ppm	0.0023 ppm	-0.0026 ppm	-0.0005 ppm	-0.0005 ppm	-0.0015 ppm
Recovery Percentage 1	0.015 %	0.870 %	3.978 %	0.071 %	-0.094 %	-5.826 %	-3.482 %
Concentration RSD	13,176.6 %	140.2 %	19.7 %	281.1 %	2,599.9 %	66.8 %	18.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	0.0023 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 1	-0.0004 ppm	0.0067 ppm	0.0006 ppm	0.0000 ppm	-0.0001 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 3	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0002 ppm
Recovery Percentage 1	-2.350 %	0.468 %	0.772 %	0.222 %	-0.333 %	-1.376 %	0.458 %
Concentration RSD	104.1 %	159.9 %	83.7 %	138.5 %	269.9 %	319.8 %	234.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	91.1480 %	99.1961 %	93.4773 %	92.5095 %	100.2867 %	94.8804 %
Concentration per Run 1	0.0005 ppm	89.7396 %	99.1402 %	93.7255 %	91.9899 %	100.1195 %	95.5926 %
Concentration per Run 2	0.0006 ppm	91.6026 %	98.8645 %	93.3255 %	92.9802 %	100.1373 %	94.8768 %
Concentration per Run 3	0.0005 ppm	92.1017 %	99.5837 %	93.3809 %	92.5583 %	100.6033 %	94.1717 %
Recovery Percentage 1	10.782 %						
Concentration RSD	8.7 %	1.4 %	0.4 %	0.2 %	0.5 %	0.3 %	0.7 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: ICV
Analysis started at: 9/26/2024 12:01:29 PM
Rack 0
Vial 10
Comment changed position

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5063 ppm	0.4912 ppm	0.4869 ppm	0.4974 ppm	0.5079 ppm	0.5108 ppm	0.4990 ppm
Concentration per Run 1	0.5077 ppm	0.4981 ppm	0.4860 ppm	0.4979 ppm	0.5095 ppm	0.5150 ppm	0.5019 ppm
Concentration per Run 2	0.5055 ppm	0.4887 ppm	0.4866 ppm	0.4984 ppm	0.5043 ppm	0.5104 ppm	0.4965 ppm
Concentration per Run 3	0.5057 ppm	0.4869 ppm	0.4881 ppm	0.4961 ppm	0.5099 ppm	0.5070 ppm	0.4986 ppm
Recovery Percentage 1	101.262 %	98.247 %	97.387 %	99.487 %	101.576 %	102.165 %	99.795 %
Concentration RSD	0.2 %	1.2 %	0.2 %	0.2 %	0.6 %	0.8 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5103 ppm	0.5134 ppm	0.4973 ppm	0.4886 ppm	0.5156 ppm	5.3231 ppm	0.5040 ppm
Concentration per Run 1	0.5148 ppm	0.5163 ppm	0.4991 ppm	0.4886 ppm	0.5178 ppm	5.3674 ppm	0.5073 ppm
Concentration per Run 2	0.5073 ppm	0.5114 ppm	0.4961 ppm	0.4877 ppm	0.5136 ppm	5.2753 ppm	0.4982 ppm
Concentration per Run 3	0.5089 ppm	0.5125 ppm	0.4968 ppm	0.4896 ppm	0.5155 ppm	5.3267 ppm	0.5064 ppm
Recovery Percentage 1	102.067 %	102.682 %	99.465 %	97.724 %	103.127 %	106.462 %	100.792 %
Concentration RSD	0.8 %	0.5 %	0.3 %	0.2 %	0.4 %	0.9 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4953 ppm	0.4994 ppm	0.5059 ppm	10.3397 ppm	0.5099 ppm	0.4938 ppm	0.5113 ppm
Concentration per Run 1	0.4987 ppm	0.5015 ppm	0.5053 ppm	10.4072 ppm	0.5091 ppm	0.4924 ppm	0.5121 ppm
Concentration per Run 2	0.4946 ppm	0.4972 ppm	0.5033 ppm	10.2828 ppm	0.5099 ppm	0.4915 ppm	0.5088 ppm
Concentration per Run 3	0.4925 ppm	0.4996 ppm	0.5092 ppm	10.3290 ppm	0.5106 ppm	0.4975 ppm	0.5130 ppm
Recovery Percentage 1	99.053 %	99.887 %	101.189 %	103.397 %	101.977 %	98.759 %	102.255 %
Concentration RSD	0.6 %	0.4 %	0.6 %	0.6 %	0.1 %	0.7 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4891 ppm	5.5919 ppm	0.4899 ppm	0.4834 ppm	0.5010 ppm	0.4891 ppm	0.4994 ppm
Concentration per Run 1	0.4869 ppm	5.5915 ppm	0.4933 ppm	0.4845 ppm	0.4984 ppm	0.4845 ppm	0.4995 ppm
Concentration per Run 2	0.4884 ppm	5.5721 ppm	0.4860 ppm	0.4828 ppm	0.4977 ppm	0.4897 ppm	0.4985 ppm
Concentration per Run 3	0.4919 ppm	5.6122 ppm	0.4905 ppm	0.4828 ppm	0.5068 ppm	0.4930 ppm	0.5003 ppm
Recovery Percentage 1	97.812 %	106.513 %	97.989 %	96.680 %	100.196 %	97.815 %	99.888 %
Concentration RSD	0.5 %	0.4 %	0.7 %	0.2 %	1.0 %	0.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5093 ppm	94.5113 %	102.0803 %	94.9276 %	90.9457 %	100.4425 %	94.3809 %
Concentration per Run 1	0.5115 ppm	93.4651 %	101.2324 %	95.1404 %	89.8395 %	99.9323 %	94.4388 %
Concentration per Run 2	0.5067 ppm	95.1017 %	103.0742 %	95.2923 %	91.3934 %	100.9397 %	94.6969 %
Concentration per Run 3	0.5097 ppm	94.9672 %	101.9342 %	94.3503 %	91.6043 %	100.4556 %	94.0071 %
Recovery Percentage 1	101.859 %						
Concentration RSD	0.5 %	1.0 %	0.9 %	0.5 %	1.1 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: ICB
Analysis started at: 9/26/2024 12:05:29 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0036 ppm	0.0013 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 1	0.0000 ppm	-0.0051 ppm	0.0027 ppm	0.0016 ppm	0.0001 ppm	0.0000 ppm	0.0077 ppm
Concentration per Run 2	0.0000 ppm	-0.0098 ppm	0.0006 ppm	0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 3	0.0003 ppm	0.0040 ppm	0.0008 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0059 ppm
Recovery Percentage 1	1.462 %	-3.600 %	44.489 %	4.362 %	0.601 %	0.664 %	5.216 %
Concentration RSD	209.2 %	194.5 %	87.3 %	26.4 %	132.4 %	143.5 %	54.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0010 ppm	0.0025 ppm	-0.0042 ppm	0.0009 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0013 ppm	0.0027 ppm	-0.0080 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0009 ppm	0.0034 ppm	0.0015 ppm	0.0013 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0009 ppm	0.0015 ppm	-0.0060 ppm	0.0005 ppm
Recovery Percentage 1	1.207 %	-0.299 %	0.733 %	10.441 %	5.049 %	-0.167 %	8.753 %
Concentration RSD	63.8 %	538.8 %	148.7 %	17.2 %	37.0 %	119.4 %	46.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0002 ppm	0.0000 ppm	0.0020 ppm	0.0020 ppm	0.0005 ppm	-0.0008 ppm	-0.0014 ppm
Concentration per Run 1	0.0006 ppm	-0.0001 ppm	0.0021 ppm	0.0054 ppm	0.0006 ppm	-0.0011 ppm	0.0004 ppm
Concentration per Run 2	-0.0011 ppm	0.0000 ppm	0.0018 ppm	-0.0014 ppm	0.0007 ppm	-0.0007 ppm	-0.0008 ppm
Concentration per Run 3	0.0012 ppm	0.0000 ppm	0.0022 ppm	0.0021 ppm	0.0001 ppm	-0.0005 ppm	-0.0038 ppm
Recovery Percentage 1	0.205 %	-0.296 %	4.062 %	0.101 %	1.877 %	-7.975 %	-2.769 %
Concentration RSD	578.2 %	281.6 %	11.7 %	168.5 %	64.8 %	36.4 %	155.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	0.0002 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0006 ppm	-0.0001 ppm	0.0006 ppm	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 2	-0.0004 ppm	0.0000 ppm	0.0013 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	0.0021 ppm	0.0007 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm
Recovery Percentage 1	7.693 %	0.044 %	1.513 %	-0.287 %	0.079 %	-0.634 %	1.945 %
Concentration RSD	165.7 %	194.3 %	64.0 %	45.5 %	3,436.1 %	124.7 %	83.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	90.5733 %	99.3161 %	92.9477 %	91.7184 %	99.7186 %	94.4148 %
Concentration per Run 1	0.0006 ppm	88.5612 %	100.0973 %	92.9805 %	90.7321 %	100.6037 %	94.9327 %
Concentration per Run 2	0.0004 ppm	91.6283 %	98.4737 %	92.4519 %	92.3678 %	98.7589 %	93.8543 %
Concentration per Run 3	0.0007 ppm	91.5305 %	99.3772 %	93.4107 %	92.0551 %	99.7933 %	94.4575 %
Recovery Percentage 1	11.736 %						
Concentration RSD	28.2 %	1.9 %	0.8 %	0.5 %	0.9 %	0.9 %	0.6 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: LLOQ
Analysis started at: 9/26/2024 12:09:26 PM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0052 ppm	0.1001 ppm	0.0045 ppm	0.0316 ppm	0.0102 ppm	0.0050 ppm	0.0996 ppm
Concentration per Run 1	0.0052 ppm	0.1011 ppm	0.0054 ppm	0.0326 ppm	0.0102 ppm	0.0050 ppm	0.1004 ppm
Concentration per Run 2	0.0053 ppm	0.0990 ppm	0.0045 ppm	0.0307 ppm	0.0102 ppm	0.0050 ppm	0.0995 ppm
Concentration per Run 3	0.0052 ppm	0.1002 ppm	0.0035 ppm	0.0317 ppm	0.0101 ppm	0.0050 ppm	0.0989 ppm
Recovery Percentage 1	104.552 %	100.081 %	89.781 %	105.457 %	101.517 %	100.070 %	99.593 %
Concentration RSD	1.4 %	1.0 %	21.0 %	3.0 %	0.4 %	0.5 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0042 ppm	0.0205 ppm	0.0099 ppm	0.0115 ppm	0.0526 ppm	2.7002 ppm	0.0101 ppm
Concentration per Run 1	0.0042 ppm	0.0207 ppm	0.0096 ppm	0.0113 ppm	0.0525 ppm	2.7349 ppm	0.0101 ppm
Concentration per Run 2	0.0042 ppm	0.0201 ppm	0.0100 ppm	0.0115 ppm	0.0532 ppm	2.6937 ppm	0.0103 ppm
Concentration per Run 3	0.0042 ppm	0.0206 ppm	0.0100 ppm	0.0116 ppm	0.0522 ppm	2.6721 ppm	0.0098 ppm
Recovery Percentage 1	105.185 %	102.334 %	98.819 %	114.643 %	105.231 %	108.009 %	100.652 %
Concentration RSD	0.8 %	1.5 %	2.1 %	1.5 %	1.1 %	1.2 %	2.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1017 ppm	0.0104 ppm	0.0530 ppm	2.0988 ppm	0.0205 ppm	0.0094 ppm	0.0499 ppm
Concentration per Run 1	0.1026 ppm	0.0105 ppm	0.0530 ppm	2.1096 ppm	0.0211 ppm	0.0098 ppm	0.0487 ppm
Concentration per Run 2	0.0999 ppm	0.0106 ppm	0.0523 ppm	2.0954 ppm	0.0201 ppm	0.0090 ppm	0.0492 ppm
Concentration per Run 3	0.1027 ppm	0.0102 ppm	0.0536 ppm	2.0914 ppm	0.0204 ppm	0.0094 ppm	0.0518 ppm
Recovery Percentage 1	101.734 %	104.443 %	105.926 %	104.940 %	82.100 %	94.182 %	99.802 %
Concentration RSD	1.5 %	1.9 %	1.2 %	0.5 %	2.5 %	4.2 %	3.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0102 ppm	0.5382 ppm	0.0503 ppm	0.0097 ppm	0.0516 ppm	0.0192 ppm	0.0103 ppm
Concentration per Run 1	0.0097 ppm	0.5399 ppm	0.0516 ppm	0.0096 ppm	0.0520 ppm	0.0189 ppm	0.0104 ppm
Concentration per Run 2	0.0087 ppm	0.5382 ppm	0.0484 ppm	0.0097 ppm	0.0513 ppm	0.0187 ppm	0.0102 ppm
Concentration per Run 3	0.0123 ppm	0.5366 ppm	0.0510 ppm	0.0097 ppm	0.0516 ppm	0.0199 ppm	0.0102 ppm
Recovery Percentage 1	102.240 %	107.648 %	100.679 %	96.716 %	103.275 %	96.009 %	102.957 %
Concentration RSD	18.0 %	0.3 %	3.3 %	0.4 %	0.7 %	3.4 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0054 ppm	93.1924 %	101.1818 %	94.4266 %	91.8018 %	99.9612 %	94.4713 %
Concentration per Run 1	0.0054 ppm	92.5222 %	100.2488 %	94.2720 %	91.6475 %	99.3715 %	94.7799 %
Concentration per Run 2	0.0054 ppm	94.0269 %	101.6979 %	94.0395 %	92.6010 %	100.3689 %	94.1114 %
Concentration per Run 3	0.0053 ppm	93.0282 %	101.5987 %	94.9684 %	91.1568 %	100.1431 %	94.5225 %
Recovery Percentage 1	107.355 %						
Concentration RSD	1.0 %	0.8 %	0.8 %	0.5 %	0.8 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: LDR (ICSA)
Analysis started at: 9/26/2024 12:13:22 PM
Rack 0
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	494.7391 ppm	-0.0015 ppm	0.0047 ppm	0.0016 ppm	0.0001 ppm	538.8233 ppm
Concentration per Run 1	0.0007 ppm	493.8247 ppm	0.0012 ppm	0.0049 ppm	0.0016 ppm	0.0001 ppm	539.7826 ppm
Concentration per Run 2	0.0004 ppm	493.5129 ppm	-0.0032 ppm	0.0050 ppm	0.0015 ppm	0.0001 ppm	537.3985 ppm
Concentration per Run 3	0.0003 ppm	496.8796 ppm	-0.0026 ppm	0.0042 ppm	0.0016 ppm	0.0000 ppm	539.2889 ppm
Concentration RSD	48.8 %	0.4 %	154.5 %	10.0 %	3.1 %	40.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0004 ppm	-0.0008 ppm	-0.0016 ppm	180.8564 ppm	0.0183 ppm	0.0013 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	-0.0005 ppm	-0.0016 ppm	180.5780 ppm	0.0056 ppm	0.0022 ppm
Concentration per Run 2	-0.0003 ppm	-0.0007 ppm	-0.0009 ppm	-0.0014 ppm	180.5359 ppm	0.0268 ppm	0.0009 ppm
Concentration per Run 3	-0.0002 ppm	-0.0001 ppm	-0.0009 ppm	-0.0018 ppm	181.4552 ppm	0.0225 ppm	0.0009 ppm
Concentration RSD	139.4 %	85.5 %	27.1 %	10.9 %	0.3 %	61.3 %	55.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	469.4071 ppm	0.0016 ppm	-0.0001 ppm	0.0267 ppm	0.0001 ppm	-0.0195 ppm	-0.0057 ppm
Concentration per Run 1	468.1318 ppm	0.0017 ppm	-0.0005 ppm	0.0292 ppm	-0.0002 ppm	-0.0165 ppm	-0.0088 ppm
Concentration per Run 2	469.9048 ppm	0.0015 ppm	-0.0001 ppm	0.0245 ppm	0.0000 ppm	-0.0196 ppm	-0.0057 ppm
Concentration per Run 3	470.1848 ppm	0.0016 ppm	0.0004 ppm	0.0265 ppm	0.0003 ppm	-0.0224 ppm	-0.0025 ppm
Concentration RSD	0.2 %	6.9 %	601.1 %	8.8 %	433.9 %	15.1 %	55.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0047 ppm	-0.0076 ppm	-0.0005 ppm	-0.0001 ppm	-0.0004 ppm	0.0022 ppm	0.0000 ppm
Concentration per Run 1	-0.0067 ppm	-0.0083 ppm	-0.0017 ppm	-0.0001 ppm	-0.0003 ppm	0.0020 ppm	0.0001 ppm
Concentration per Run 2	-0.0006 ppm	-0.0088 ppm	0.0007 ppm	-0.0001 ppm	-0.0004 ppm	0.0016 ppm	-0.0002 ppm
Concentration per Run 3	-0.0069 ppm	-0.0058 ppm	-0.0003 ppm	-0.0002 ppm	-0.0004 ppm	0.0029 ppm	0.0001 ppm
Concentration RSD	75.7 %	20.9 %	271.2 %	42.2 %	21.7 %	31.1 %	8,263.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	86.9296 %	95.8465 %	77.3844 %	82.8019 %	95.2651 %	82.7513 %
Concentration per Run 1	0.0001 ppm	87.2461 %	94.4263 %	77.6337 %	83.0833 %	93.8253 %	82.9934 %
Concentration per Run 2	0.0004 ppm	86.6605 %	96.8616 %	77.4587 %	82.3872 %	96.2303 %	82.5380 %
Concentration per Run 3	0.0002 ppm	86.8822 %	96.2515 %	77.0607 %	82.9351 %	95.7397 %	82.7224 %
Concentration RSD	66.8 %	0.3 %	1.3 %	0.4 %	0.4 %	1.3 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: LDR (SIC Multi)
Analysis started at: 9/26/2024 12:19:13 PM
Rack 0
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0199 ppm	0.0002 ppm	0.0096 ppm	0.0004 ppm	-0.0006 ppm	0.0052 ppm
Concentration per Run 1	-0.0004 ppm	0.0230 ppm	0.0006 ppm	0.0101 ppm	0.0004 ppm	-0.0004 ppm	0.0040 ppm
Concentration per Run 2	-0.0007 ppm	0.0193 ppm	0.0019 ppm	0.0097 ppm	0.0006 ppm	-0.0005 ppm	0.0057 ppm
Concentration per Run 3	-0.0005 ppm	0.0174 ppm	-0.0017 ppm	0.0090 ppm	0.0002 ppm	-0.0008 ppm	0.0058 ppm
Concentration RSD	27.4 %	14.5 %	736.3 %	5.8 %	42.1 %	38.7 %	19.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0034 ppm	19.3679 ppm	-0.0016 ppm	0.0151 ppm	0.0011 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	-0.0026 ppm	19.3036 ppm	-0.0015 ppm	0.0159 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0041 ppm	19.3521 ppm	-0.0019 ppm	0.0146 ppm	-0.0033 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	-0.0034 ppm	19.4481 ppm	-0.0013 ppm	0.0148 ppm	0.0076 ppm	-0.0003 ppm
Concentration RSD	145.1 %	23.0 %	0.4 %	18.4 %	4.4 %	503.3 %	1,924.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0006 ppm	20.5620 [SIC 100]	0.0008 ppm	0.0084 ppm	0.0004 ppm	-0.0026 ppm	-0.0056 ppm
Concentration per Run 1	-0.0003 ppm	20.5782 ppm	0.0006 ppm	0.0082 ppm	0.0003 ppm	-0.0022 ppm	-0.0032 ppm
Concentration per Run 2	-0.0004 ppm	20.5390 ppm	0.0010 ppm	0.0050 ppm	0.0004 ppm	-0.0019 ppm	-0.0088 ppm
Concentration per Run 3	-0.0011 ppm	20.5687 ppm	0.0009 ppm	0.0118 ppm	0.0005 ppm	-0.0036 ppm	-0.0048 ppm
Concentration RSD	71.0 %	0.1 %	20.5 %	40.6 %	35.1 %	34.4 %	50.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	0.3413 ppm	-0.0016 ppm	0.0000 ppm	19.4361 ppm	-0.0116 ppm	9.8609 ppm
Concentration per Run 1	-0.0002 ppm	0.3024 ppm	-0.0020 ppm	-0.0001 ppm	19.2712 ppm	-0.0168 ppm	9.8110 ppm
Concentration per Run 2	-0.0015 ppm	0.3415 ppm	-0.0010 ppm	0.0000 ppm	19.5948 ppm	-0.0105 ppm	9.8635 ppm
Concentration per Run 3	0.0005 ppm	0.3799 ppm	-0.0018 ppm	0.0001 ppm	19.4423 ppm	-0.0075 ppm	9.9083 ppm
Concentration RSD	253.1 %	11.3 %	31.8 %	696.8 %	0.8 %	40.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	101.9551 %	101.9439 %	79.1549 %	98.9237 %	100.5073 %	98.3254 %
Concentration per Run 1	0.0000 ppm	101.7673 %	101.0216 %	79.1448 %	98.5967 %	99.9591 %	98.3100 %
Concentration per Run 2	0.0001 ppm	102.2563 %	102.4756 %	79.5080 %	99.2047 %	100.9877 %	98.3359 %
Concentration per Run 3	0.0002 ppm	101.8415 %	102.3346 %	78.8120 %	98.9699 %	100.5750 %	98.3302 %
Concentration RSD	91.2 %	0.3 %	0.8 %	0.4 %	0.3 %	0.5 %	0.0 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: LDR Check
Analysis started at: 9/26/2024 12:23:30 PM
Rack 0
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0030 ppm	-0.0008 ppm	21.6745 ppm	24.8285 [SIC 20]	19.8667 ppm	5.0070 ppm	0.0390 ppm
Concentration per Run 1	0.0029 ppm	0.0020 ppm	21.4307 ppm	24.6521 ppm	19.9376 ppm	5.0143 ppm	0.0381 ppm
Concentration per Run 2	0.0031 ppm	-0.0032 ppm	21.8475 ppm	24.8518 ppm	19.8952 ppm	5.0220 ppm	0.0408 ppm
Concentration per Run 3	0.0030 ppm	-0.0011 ppm	21.7453 ppm	24.9816 ppm	19.7672 ppm	4.9845 ppm	0.0383 ppm
Recovery Percentage 1			108.373 %	124.143 %	99.333 %		0.000 %
Concentration RSD	3.5 %	325.6 %	1.0 %	0.7 %	0.4 %	0.4 %	3.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	4.8216 ppm	4.9355 ppm	0.0011 ppm	19.8400 ppm	0.0114 ppm	520.2727 ppm	19.0440 ppm
Concentration per Run 1	4.8309 ppm	4.9315 ppm	0.0013 ppm	19.7709 ppm	0.0110 ppm	521.8433 ppm	19.1769 ppm
Concentration per Run 2	4.8194 ppm	4.9326 ppm	0.0011 ppm	19.8333 ppm	0.0125 ppm	521.1136 ppm	19.1244 ppm
Concentration per Run 3	4.8147 ppm	4.9426 ppm	0.0010 ppm	19.9158 ppm	0.0106 ppm	517.8611 ppm	18.8307 ppm
Recovery Percentage 1	96.433 %	98.711 %		99.200 %	0.000 %	104.055 %	95.220 %
Concentration RSD	0.2 %	0.1 %	14.6 %	0.4 %	8.8 %	0.4 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0059 ppm	0.0011 ppm	4.8493 ppm	467.4511 ppm	9.6238 ppm	49.9652 ppm	5.0554 ppm
Concentration per Run 1	-0.0050 ppm	0.0010 ppm	4.7767 ppm	468.7426 ppm	9.6244 ppm	49.8576 ppm	4.9903 ppm
Concentration per Run 2	-0.0061 ppm	0.0012 ppm	4.8582 ppm	465.0569 ppm	9.6495 ppm	49.9660 ppm	5.0670 ppm
Concentration per Run 3	-0.0067 ppm	0.0010 ppm	4.9128 ppm	468.5539 ppm	9.5975 ppm	50.0719 ppm	5.1089 ppm
Recovery Percentage 1		0.000 %	96.985 %	93.490 %	96.238 %	99.930 %	101.108 %
Concentration RSD	14.6 %	10.2 %	1.4 %	0.4 %	0.3 %	0.2 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	5.1622 [SIC 20]	21.7092 [SIC 100]	9.5838 ppm	4.7660 ppm	0.0130 ppm	4.9616 ppm	0.0030 ppm
Concentration per Run 1	5.1264 ppm	21.5553 ppm	9.5831 ppm	4.7728 ppm	0.0135 ppm	4.9389 ppm	0.0028 ppm
Concentration per Run 2	5.1859 ppm	21.7094 ppm	9.6287 ppm	4.7714 ppm	0.0127 ppm	4.9865 ppm	0.0032 ppm
Concentration per Run 3	5.1745 ppm	21.8630 ppm	9.5396 ppm	4.7537 ppm	0.0127 ppm	4.9594 ppm	0.0030 ppm
Recovery Percentage 1	103.245 %	108.546 %	95.838 %	95.319 %	0.000 %	99.232 %	0.000 %
Concentration RSD	0.6 %	0.7 %	0.5 %	0.2 %	3.4 %	0.5 %	5.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	18.9908 ppm	89.0773 %	99.8763 %	83.8115 %	84.6521 %	97.5374 %	84.5268 %
Concentration per Run 1	19.0725 ppm	88.4042 %	99.8782 %	84.0543 %	83.6052 %	97.7208 %	84.7278 %
Concentration per Run 2	18.9852 ppm	89.1038 %	99.5534 %	83.5521 %	84.6990 %	97.1662 %	84.4164 %
Concentration per Run 3	18.9147 ppm	89.7239 %	100.1973 %	83.8282 %	85.6522 %	97.7252 %	84.4361 %
Recovery Percentage 1	94.954 %						
Concentration RSD	0.4 %	0.7 %	0.3 %	0.3 %	1.2 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: LDR 1000 Ca
Analysis started at: 9/26/2024 12:29:42 PM
Rack 1
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0256 ppm	-0.0004 ppm	0.0108 ppm	0.0010 ppm	0.0000 ppm	919.7770 ppm
Concentration per Run 1	0.0000 ppm	0.0341 ppm	-0.0016 ppm	0.0121 ppm	0.0011 ppm	0.0000 ppm	914.7792 ppm
Concentration per Run 2	-0.0003 ppm	0.0271 ppm	-0.0004 ppm	0.0103 ppm	0.0011 ppm	0.0000 ppm	921.7770 ppm
Concentration per Run 3	-0.0004 ppm	0.0157 ppm	0.0008 ppm	0.0101 ppm	0.0009 ppm	0.0000 ppm	922.7747 ppm
Concentration RSD	109.9 %	36.3 %	296.8 %	10.3 %	9.9 %	1,787.7 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0020 ppm	0.0050 ppm	0.2172 ppm	-0.0004 ppm
Concentration per Run 1	0.0004 ppm	-0.0004 ppm	0.0001 ppm	0.0022 ppm	0.0049 ppm	0.2024 ppm	-0.0004 ppm
Concentration per Run 2	0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0018 ppm	0.0051 ppm	0.2384 ppm	-0.0006 ppm
Concentration per Run 3	0.0003 ppm	0.0006 ppm	0.0003 ppm	0.0020 ppm	0.0051 ppm	0.2109 ppm	-0.0001 ppm
Concentration RSD	22.9 %	277.1 %	82.9 %	8.6 %	2.5 %	8.6 %	72.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0135 ppm	0.0005 ppm	0.0086 ppm	0.0474 ppm	0.0009 ppm	0.0011 ppm	0.0088 ppm
Concentration per Run 1	0.0134 ppm	0.0004 ppm	0.0086 ppm	0.0436 ppm	0.0010 ppm	0.0015 ppm	0.0089 ppm
Concentration per Run 2	0.0135 ppm	0.0006 ppm	0.0087 ppm	0.0472 ppm	0.0006 ppm	0.0006 ppm	0.0099 ppm
Concentration per Run 3	0.0135 ppm	0.0004 ppm	0.0084 ppm	0.0514 ppm	0.0011 ppm	0.0013 ppm	0.0077 ppm
Concentration RSD	0.5 %	17.2 %	1.6 %	8.2 %	28.2 %	44.4 %	12.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	0.0165 ppm	0.0011 ppm	-0.0006 ppm	-0.0007 ppm	-0.0009 ppm	0.0007 ppm
Concentration per Run 1	0.0036 ppm	0.0193 ppm	0.0021 ppm	-0.0005 ppm	-0.0007 ppm	-0.0004 ppm	0.0007 ppm
Concentration per Run 2	0.0033 ppm	0.0128 ppm	0.0008 ppm	-0.0006 ppm	-0.0011 ppm	-0.0002 ppm	0.0007 ppm
Concentration per Run 3	-0.0007 ppm	0.0173 ppm	0.0005 ppm	-0.0006 ppm	-0.0005 ppm	-0.0020 ppm	0.0007 ppm
Concentration RSD	114.1 %	20.0 %	73.1 %	17.4 %	42.2 %	114.1 %	3.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0024 ppm	87.8339 %	97.2167 %	81.4685 %	85.1210 %	96.1168 %	84.7781 %
Concentration per Run 1	0.0025 ppm	87.7354 %	97.9829 %	81.5777 %	85.0671 %	96.6660 %	84.5140 %
Concentration per Run 2	0.0023 ppm	87.4374 %	97.4951 %	81.3754 %	84.7932 %	96.6843 %	84.8132 %
Concentration per Run 3	0.0023 ppm	88.3289 %	96.1721 %	81.4524 %	85.5026 %	95.0003 %	85.0072 %
Concentration RSD	4.6 %	0.5 %	1.0 %	0.1 %	0.4 %	1.0 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: LDR 500 Fe
Analysis started at: 9/26/2024 12:33:44 PM
Rack 1
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0478 ppm	-0.0004 ppm	0.0039 ppm	0.0004 ppm	0.0000 ppm	0.0090 ppm
Concentration per Run 1	0.0001 ppm	0.0459 ppm	0.0004 ppm	0.0043 ppm	0.0004 ppm	0.0000 ppm	0.0081 ppm
Concentration per Run 2	-0.0005 ppm	0.0493 ppm	-0.0014 ppm	0.0034 ppm	0.0004 ppm	0.0000 ppm	0.0102 ppm
Concentration per Run 3	0.0000 ppm	0.0483 ppm	-0.0003 ppm	0.0040 ppm	0.0004 ppm	0.0000 ppm	0.0088 ppm
Concentration RSD	252.8 %	3.6 %	214.9 %	12.6 %	8.3 %	27.8 %	12.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0019 ppm	-0.0023 ppm	-0.0044 ppm	448.1524 ppm	-0.0105 ppm	0.0010 ppm
Concentration per Run 1	0.0003 ppm	-0.0021 ppm	-0.0023 ppm	-0.0036 ppm	448.0200 ppm	-0.0060 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	-0.0022 ppm	-0.0021 ppm	-0.0052 ppm	450.9832 ppm	-0.0371 ppm	0.0013 ppm
Concentration per Run 3	0.0001 ppm	-0.0013 ppm	-0.0026 ppm	-0.0045 ppm	445.4538 ppm	0.0116 ppm	0.0012 ppm
Concentration RSD	239.2 %	25.7 %	10.6 %	18.2 %	0.6 %	234.4 %	56.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0161 ppm	0.0004 ppm	-0.0005 ppm	0.0233 ppm	-0.0015 ppm	-0.0002 ppm	0.0105 ppm
Concentration per Run 1	0.0155 ppm	0.0003 ppm	-0.0004 ppm	0.0260 ppm	-0.0009 ppm	0.0002 ppm	0.0103 ppm
Concentration per Run 2	0.0161 ppm	0.0005 ppm	-0.0007 ppm	0.0212 ppm	-0.0015 ppm	-0.0007 ppm	0.0119 ppm
Concentration per Run 3	0.0166 ppm	0.0003 ppm	-0.0005 ppm	0.0228 ppm	-0.0022 ppm	-0.0001 ppm	0.0092 ppm
Concentration RSD	3.3 %	34.8 %	33.3 %	10.6 %	41.5 %	247.5 %	13.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	0.0021 ppm	0.0021 ppm	0.0003 ppm	0.0000 ppm	-0.0002 ppm	0.0006 ppm
Concentration per Run 1	0.0012 ppm	0.0015 ppm	0.0011 ppm	0.0002 ppm	0.0000 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 2	0.0019 ppm	0.0033 ppm	0.0029 ppm	0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0014 ppm
Concentration per Run 3	-0.0002 ppm	0.0014 ppm	0.0022 ppm	0.0002 ppm	-0.0001 ppm	-0.0006 ppm	0.0003 ppm
Concentration RSD	106.9 %	51.1 %	42.1 %	7.5 %	397.1 %	181.5 %	141.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0007 ppm	95.6250 %	102.8851 %	89.0647 %	91.1482 %	101.6360 %	93.5283 %
Concentration per Run 1	-0.0008 ppm	95.1211 %	102.9994 %	88.8080 %	90.5695 %	101.7931 %	93.0140 %
Concentration per Run 2	-0.0006 ppm	95.9572 %	102.4935 %	89.0264 %	91.3599 %	101.3263 %	93.7778 %
Concentration per Run 3	-0.0007 ppm	95.7967 %	103.1624 %	89.3597 %	91.5152 %	101.7886 %	93.7932 %
Concentration RSD	9.8 %	0.5 %	0.3 %	0.3 %	0.6 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: LDR 20 B
Analysis started at: 9/26/2024 12:37:41 PM
Rack 1
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0035 ppm	0.0008 ppm	20.5601 [SIC 20]	0.0000 ppm	0.0000 ppm	0.0054 ppm
Concentration per Run 1	0.0003 ppm	0.0039 ppm	0.0004 ppm	20.8587 ppm	0.0000 ppm	0.0000 ppm	0.0072 ppm
Concentration per Run 2	0.0000 ppm	0.0031 ppm	0.0016 ppm	20.4995 ppm	0.0000 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 3	0.0002 ppm	0.0034 ppm	0.0002 ppm	20.3221 ppm	0.0000 ppm	0.0000 ppm	0.0054 ppm
Concentration RSD	99.7 %	11.7 %	98.1 %	1.3 %	4,531.0 %	210.4 %	31.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0012 ppm	0.0153 ppm	0.0386 ppm	0.0016 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0013 ppm	0.0158 ppm	0.0571 ppm	0.0014 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0011 ppm	0.0141 ppm	0.0186 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0012 ppm	0.0160 ppm	0.0400 ppm	0.0026 ppm
Concentration RSD	189.7 %	30.7 %	57.9 %	10.6 %	7.0 %	50.1 %	55.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0016 ppm	0.0001 ppm	0.0012 ppm	0.0121 ppm	0.0002 ppm	-0.0004 ppm	0.0020 ppm
Concentration per Run 1	0.0011 ppm	0.0000 ppm	0.0010 ppm	0.0112 ppm	0.0002 ppm	-0.0005 ppm	0.0013 ppm
Concentration per Run 2	0.0014 ppm	0.0002 ppm	0.0012 ppm	0.0094 ppm	0.0007 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 3	0.0024 ppm	0.0001 ppm	0.0012 ppm	0.0158 ppm	-0.0004 ppm	-0.0006 ppm	0.0027 ppm
Concentration RSD	42.2 %	130.9 %	8.8 %	27.3 %	287.7 %	95.7 %	35.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0010 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0016 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm	0.0001 ppm
Concentration per Run 2	-0.0006 ppm	0.0022 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 3	0.0003 ppm	-0.0009 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0010 ppm	-0.0003 ppm
Concentration RSD	571.1 %	172.9 %	82.6 %	509.3 %	28.1 %	103.0 %	279.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	93.8445 %	102.1922 %	94.4893 %	93.1823 %	101.5024 %	95.2028 %
Concentration per Run 1	0.0006 ppm	92.9220 %	102.6491 %	93.9006 %	93.0352 %	101.7649 %	94.6161 %
Concentration per Run 2	0.0004 ppm	93.7521 %	102.1805 %	94.4103 %	92.8319 %	101.5744 %	94.8238 %
Concentration per Run 3	0.0001 ppm	94.8593 %	101.7471 %	95.1570 %	93.6799 %	101.1680 %	96.1686 %
Concentration RSD	72.1 %	1.0 %	0.4 %	0.7 %	0.5 %	0.3 %	0.9 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 12:41:38 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4971 ppm	0.4839 ppm	0.4811 ppm	0.5085 ppm	0.5097 ppm	0.5067 ppm	0.4920 ppm
Concentration per Run 1	0.4993 ppm	0.4809 ppm	0.4828 ppm	0.5170 ppm	0.5090 ppm	0.5031 ppm	0.4892 ppm
Concentration per Run 2	0.4963 ppm	0.4777 ppm	0.4777 ppm	0.5063 ppm	0.5084 ppm	0.5081 ppm	0.4939 ppm
Concentration per Run 3	0.4955 ppm	0.4931 ppm	0.4830 ppm	0.5021 ppm	0.5117 ppm	0.5087 ppm	0.4928 ppm
Recovery Percentage 1	99.411 %	96.778 %	96.230 %	101.694 %	101.945 %	101.335 %	98.392 %
Concentration RSD	0.4 %	1.7 %	0.6 %	1.5 %	0.3 %	0.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4972 ppm	0.5025 ppm	0.4891 ppm	0.4859 ppm	0.5134 ppm	5.3450 ppm	0.5033 ppm
Concentration per Run 1	0.5007 ppm	0.5064 ppm	0.4909 ppm	0.4903 ppm	0.5143 ppm	5.3558 ppm	0.5040 ppm
Concentration per Run 2	0.4955 ppm	0.5017 ppm	0.4874 ppm	0.4862 ppm	0.5094 ppm	5.3121 ppm	0.4979 ppm
Concentration per Run 3	0.4955 ppm	0.4995 ppm	0.4889 ppm	0.4813 ppm	0.5164 ppm	5.3671 ppm	0.5079 ppm
Recovery Percentage 1	99.446 %	100.505 %	97.819 %	97.187 %	102.673 %	106.900 %	100.654 %
Concentration RSD	0.6 %	0.7 %	0.4 %	0.9 %	0.7 %	0.5 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4837 ppm	0.4963 ppm	0.4967 ppm	10.1482 ppm	0.5010 ppm	0.4911 ppm	0.4987 ppm
Concentration per Run 1	0.4835 ppm	0.4960 ppm	0.4974 ppm	10.1590 ppm	0.5046 ppm	0.4902 ppm	0.5059 ppm
Concentration per Run 2	0.4852 ppm	0.4946 ppm	0.4960 ppm	10.0969 ppm	0.4988 ppm	0.4913 ppm	0.4971 ppm
Concentration per Run 3	0.4824 ppm	0.4982 ppm	0.4967 ppm	10.1888 ppm	0.4995 ppm	0.4918 ppm	0.4931 ppm
Recovery Percentage 1	96.742 %	99.251 %	99.340 %	101.482 %	100.193 %	98.221 %	99.736 %
Concentration RSD	0.3 %	0.4 %	0.1 %	0.5 %	0.6 %	0.2 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4885 ppm	5.5103 ppm	0.4769 ppm	0.4755 ppm	0.4986 ppm	0.4891 ppm	0.4920 ppm
Concentration per Run 1	0.4867 ppm	5.5345 ppm	0.4795 ppm	0.4723 ppm	0.4950 ppm	0.4880 ppm	0.4936 ppm
Concentration per Run 2	0.4859 ppm	5.5001 ppm	0.4743 ppm	0.4800 ppm	0.5004 ppm	0.4855 ppm	0.4924 ppm
Concentration per Run 3	0.4930 ppm	5.4964 ppm	0.4769 ppm	0.4741 ppm	0.5004 ppm	0.4939 ppm	0.4900 ppm
Recovery Percentage 1	97.702 %	104.958 %	95.376 %	95.093 %	99.722 %	97.825 %	98.395 %
Concentration RSD	0.8 %	0.4 %	0.5 %	0.8 %	0.6 %	0.9 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4970 ppm	96.8478 %	102.9433 %	95.2943 %	93.4942 %	101.2565 %	94.8491 %
Concentration per Run 1	0.5017 ppm	96.5124 %	103.1659 %	95.9317 %	93.5027 %	101.6852 %	95.5756 %
Concentration per Run 2	0.4940 ppm	96.6635 %	103.5088 %	95.0663 %	92.9946 %	101.7290 %	94.4775 %
Concentration per Run 3	0.4953 ppm	97.3676 %	102.1552 %	94.8848 %	93.9854 %	100.3553 %	94.4943 %
Recovery Percentage 1	99.397 %						
Concentration RSD	0.8 %	0.5 %	0.7 %	0.6 %	0.5 %	0.8 %	0.7 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 12:45:34 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0042 ppm	0.0007 ppm	0.0060 ppm	0.0000 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 1	0.0004 ppm	-0.0001 ppm	0.0019 ppm	0.0068 ppm	0.0000 ppm	0.0000 ppm	0.0080 ppm
Concentration per Run 2	0.0001 ppm	0.0066 ppm	0.0013 ppm	0.0061 ppm	0.0000 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 3	0.0004 ppm	0.0060 ppm	-0.0012 ppm	0.0053 ppm	-0.0002 ppm	0.0000 ppm	0.0093 ppm
Recovery Percentage 1	4.316 %	4.165 %	22.878 %	20.163 %	-0.425 %	0.019 %	6.422 %
Concentration RSD	61.8 %	88.2 %	242.3 %	11.7 %	225.0 %	5,804.6 %	60.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0013 ppm	0.0038 ppm	0.0210 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0016 ppm	0.0053 ppm	0.0123 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0008 ppm	0.0025 ppm	0.0303 ppm	0.0014 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0014 ppm	0.0035 ppm	0.0204 ppm	-0.0012 ppm
Recovery Percentage 1	1.116 %	0.076 %	-1.411 %	12.897 %	7.578 %	0.839 %	1.783 %
Concentration RSD	105.2 %	802.6 %	71.7 %	31.6 %	36.3 %	42.9 %	729.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0000 ppm	0.0019 ppm	0.0115 ppm	0.0006 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0002 ppm	0.0000 ppm	0.0020 ppm	0.0124 ppm	0.0001 ppm	-0.0002 ppm	-0.0007 ppm
Concentration per Run 2	-0.0011 ppm	0.0000 ppm	0.0019 ppm	0.0067 ppm	0.0011 ppm	-0.0001 ppm	-0.0007 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0019 ppm	0.0152 ppm	0.0004 ppm	-0.0001 ppm	0.0019 ppm
Recovery Percentage 1	-0.339 %	0.230 %	3.835 %	0.573 %	2.214 %	-1.221 %	0.333 %
Concentration RSD	213.3 %	233.5 %	2.3 %	37.9 %	89.6 %	54.4 %	893.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	0.0013 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0016 ppm	0.0027 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 2	-0.0006 ppm	0.0008 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 3	0.0023 ppm	0.0004 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm
Recovery Percentage 1	10.650 %	0.260 %	0.444 %	0.076 %	-0.105 %	-0.294 %	2.132 %
Concentration RSD	143.0 %	95.0 %	266.7 %	645.2 %	303.9 %	229.7 %	21.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	90.4876 %	99.2203 %	92.7079 %	91.4897 %	99.4165 %	94.0766 %
Concentration per Run 1	0.0010 ppm	88.9070 %	99.0425 %	92.7902 %	90.8134 %	99.5073 %	94.2999 %
Concentration per Run 2	0.0007 ppm	91.1401 %	99.0641 %	92.5607 %	91.8265 %	98.9388 %	93.8033 %
Concentration per Run 3	0.0007 ppm	91.4157 %	99.5544 %	92.7727 %	91.8291 %	99.8033 %	94.1267 %
Recovery Percentage 1	16.115 %						
Concentration RSD	20.0 %	1.5 %	0.3 %	0.1 %	0.6 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976465-1 WG1976465
Analysis started at: 9/26/2024 12:52:19 PM
Rack 2
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0040 ppm	-0.0002 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0121 ppm
Concentration per Run 1	0.0003 ppm	0.0108 ppm	0.0002 ppm	0.0019 ppm	0.0001 ppm	0.0000 ppm	0.0120 ppm
Concentration per Run 2	0.0005 ppm	0.0008 ppm	-0.0010 ppm	0.0026 ppm	0.0002 ppm	0.0000 ppm	0.0133 ppm
Concentration per Run 3	0.0003 ppm	0.0005 ppm	0.0003 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0108 ppm
Recovery Percentage 1	5.149 %	4.038 %	-5.493 %	6.629 %	1.039 %	-0.596 %	12.055 %
Concentration RSD	26.3 %	144.2 %	440.8 %	27.8 %	97.3 %	79.6 %	10.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0012 ppm	0.0216 ppm	0.0225 ppm	0.0010 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0012 ppm	0.0218 ppm	0.0178 ppm	0.0030 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0006 ppm	0.0012 ppm	0.0208 ppm	0.0180 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0012 ppm	0.0222 ppm	0.0316 ppm	-0.0001 ppm
Recovery Percentage 1	1.596 %	-0.349 %	4.523 %	11.976 %	43.193 %	0.899 %	10.275 %
Concentration RSD	93.3 %	419.1 %	31.3 %	2.7 %	3.3 %	35.2 %	163.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0036 ppm	0.0003 ppm	0.0003 ppm	0.0113 ppm	0.0003 ppm	-0.0005 ppm	0.0003 ppm
Concentration per Run 1	0.0045 ppm	0.0003 ppm	0.0003 ppm	0.0118 ppm	0.0006 ppm	-0.0004 ppm	-0.0004 ppm
Concentration per Run 2	0.0037 ppm	0.0003 ppm	0.0002 ppm	0.0113 ppm	0.0009 ppm	-0.0004 ppm	0.0017 ppm
Concentration per Run 3	0.0028 ppm	0.0002 ppm	0.0004 ppm	0.0109 ppm	-0.0005 ppm	-0.0007 ppm	-0.0003 ppm
Recovery Percentage 1	3.645 %	2.968 %	0.635 %	0.566 %	1.343 %	-5.129 %	0.664 %
Concentration RSD	23.7 %	18.3 %	36.7 %	4.2 %	224.0 %	39.3 %	360.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	0.0058 ppm	0.0005 ppm	0.0000 ppm	0.0006 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	0.0079 ppm	0.0008 ppm	0.0000 ppm	0.0006 ppm	-0.0007 ppm	-0.0002 ppm
Concentration per Run 2	0.0014 ppm	0.0037 ppm	0.0009 ppm	0.0000 ppm	0.0005 ppm	-0.0018 ppm	0.0000 ppm
Concentration per Run 3	-0.0003 ppm	0.0059 ppm	-0.0002 ppm	0.0000 ppm	0.0009 ppm	-0.0007 ppm	0.0001 ppm
Recovery Percentage 1	3.987 %	1.164 %	1.004 %	-0.279 %	6.381 %	-5.255 %	-0.290 %
Concentration RSD	218.0 %	36.5 %	123.6 %	83.9 %	32.4 %	59.6 %	531.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	95.7771 %	102.7435 %	94.4988 %	94.8022 %	102.2188 %	95.9293 %
Concentration per Run 1	0.0005 ppm	95.3206 %	102.2862 %	95.1527 %	94.5586 %	102.1893 %	96.9431 %
Concentration per Run 2	0.0004 ppm	95.1398 %	101.9880 %	94.4339 %	93.9541 %	101.2690 %	95.4120 %
Concentration per Run 3	0.0007 ppm	96.8708 %	103.9563 %	93.9099 %	95.8938 %	103.1981 %	95.4328 %
Recovery Percentage 1	11.231 %						
Concentration RSD	26.2 %	1.0 %	1.0 %	0.7 %	1.0 %	0.9 %	0.9 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976465-2D2 WG1976465
Analysis started at: 9/26/2024 12:56:22 PM
Rack 2
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0522 ppm	2.0357 ppm	0.1207 ppm	1.0184 ppm	2.0868 ppm	0.0526 ppm	10.3098 ppm
Concentration per Run 1	0.0527 ppm	2.0531 ppm	0.1208 ppm	1.0193 ppm	2.0933 ppm	0.0529 ppm	10.3102 ppm
Concentration per Run 2	0.0523 ppm	2.0240 ppm	0.1203 ppm	1.0211 ppm	2.0895 ppm	0.0524 ppm	10.2811 ppm
Concentration per Run 3	0.0517 ppm	2.0299 ppm	0.1210 ppm	1.0148 ppm	2.0775 ppm	0.0525 ppm	10.3380 ppm
Concentration RSD	1.0 %	0.8 %	0.3 %	0.3 %	0.4 %	0.5 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0534 ppm	0.5181 ppm	0.2040 ppm	0.2620 ppm	1.0722 ppm	10.8513 ppm	0.0001 ppm
Concentration per Run 1	0.0536 ppm	0.5194 ppm	0.2045 ppm	0.2628 ppm	1.0759 ppm	10.9532 ppm	0.0010 ppm
Concentration per Run 2	0.0536 ppm	0.5192 ppm	0.2036 ppm	0.2620 ppm	1.0770 ppm	10.8152 ppm	-0.0009 ppm
Concentration per Run 3	0.0530 ppm	0.5158 ppm	0.2037 ppm	0.2611 ppm	1.0638 ppm	10.7854 ppm	0.0001 ppm
Concentration RSD	0.6 %	0.4 %	0.3 %	0.3 %	0.7 %	0.8 %	1,315.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.2507 ppm	0.5231 ppm	1.0419 ppm	10.6931 ppm	0.5195 ppm	0.5485 ppm	0.5162 ppm
Concentration per Run 1	10.3114 ppm	0.5243 ppm	1.0383 ppm	10.7336 ppm	0.5215 ppm	0.5469 ppm	0.5206 ppm
Concentration per Run 2	10.2588 ppm	0.5229 ppm	1.0433 ppm	10.6859 ppm	0.5198 ppm	0.5473 ppm	0.5118 ppm
Concentration per Run 3	10.1818 ppm	0.5220 ppm	1.0442 ppm	10.6596 ppm	0.5174 ppm	0.5512 ppm	0.5160 ppm
Concentration RSD	0.6 %	0.2 %	0.3 %	0.4 %	0.4 %	0.4 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1245 ppm	0.8293 ppm	0.9969 ppm	0.9847 ppm	1.0444 ppm	0.1204 ppm	0.5203 ppm
Concentration per Run 1	0.1241 ppm	0.8335 ppm	0.9925 ppm	0.9887 ppm	1.0503 ppm	0.1204 ppm	0.5222 ppm
Concentration per Run 2	0.1242 ppm	0.8326 ppm	0.9993 ppm	0.9825 ppm	1.0418 ppm	0.1193 ppm	0.5189 ppm
Concentration per Run 3	0.1251 ppm	0.8218 ppm	0.9989 ppm	0.9830 ppm	1.0410 ppm	0.1214 ppm	0.5198 ppm
Concentration RSD	0.4 %	0.8 %	0.4 %	0.3 %	0.5 %	0.9 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5184 ppm	94.7482 %	103.6187 %	92.7115 %	91.6731 %	102.2911 %	93.7625 %
Concentration per Run 1	0.5183 ppm	94.4868 %	103.6657 %	92.7614 %	91.4312 %	102.6210 %	93.9246 %
Concentration per Run 2	0.5218 ppm	94.7277 %	103.5320 %	93.0233 %	91.8317 %	102.1954 %	93.9676 %
Concentration per Run 3	0.5152 ppm	95.0300 %	103.6583 %	92.3498 %	91.7563 %	102.0568 %	93.3951 %
Concentration RSD	0.6 %	0.3 %	0.1 %	0.4 %	0.2 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455430-01D2 WG1976465
Analysis started at: 9/26/2024 1:00:18 PM
Rack 2
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	98.6460 ppm	0.0121 ppm	0.0061 ppm	1.5615 ppm	0.0017 ppm	25.8816 ppm
Concentration per Run 1	0.0004 ppm	98.5260 ppm	0.0126 ppm	0.0050 ppm	1.5726 ppm	0.0017 ppm	25.8644 ppm
Concentration per Run 2	0.0002 ppm	99.1673 ppm	0.0109 ppm	0.0059 ppm	1.5657 ppm	0.0017 ppm	25.9705 ppm
Concentration per Run 3	0.0003 ppm	98.2448 ppm	0.0129 ppm	0.0073 ppm	1.5463 ppm	0.0018 ppm	25.8099 ppm
Concentration RSD	41.8 %	0.5 %	8.9 %	19.3 %	0.9 %	4.5 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0883 ppm	0.3494 ppm	0.4162 ppm	202.0001 ppm	48.5369 ppm	0.0879 ppm
Concentration per Run 1	0.0004 ppm	0.0889 ppm	0.3520 ppm	0.4200 ppm	202.4164 ppm	48.1722 ppm	0.0899 ppm
Concentration per Run 2	0.0006 ppm	0.0877 ppm	0.3471 ppm	0.4127 ppm	203.3607 ppm	49.2883 ppm	0.0883 ppm
Concentration per Run 3	0.0006 ppm	0.0882 ppm	0.3490 ppm	0.4159 ppm	200.2234 ppm	48.1501 ppm	0.0857 ppm
Concentration RSD	18.8 %	0.7 %	0.7 %	0.9 %	0.8 %	1.3 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	68.4117 ppm	2.2298 ppm	0.0076 ppm	3.8036 ppm	0.2261 ppm	0.0274 ppm	-0.0003 ppm
Concentration per Run 1	68.9903 ppm	2.2320 ppm	0.0074 ppm	3.8146 ppm	0.2283 ppm	0.0289 ppm	-0.0002 ppm
Concentration per Run 2	67.9244 ppm	2.2325 ppm	0.0075 ppm	3.8249 ppm	0.2242 ppm	0.0265 ppm	0.0007 ppm
Concentration per Run 3	68.3202 ppm	2.2248 ppm	0.0079 ppm	3.7713 ppm	0.2258 ppm	0.0269 ppm	-0.0015 ppm
Concentration RSD	0.8 %	0.2 %	3.7 %	0.7 %	0.9 %	4.8 %	342.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0032 ppm	16.3434 ppm	0.0030 ppm	0.0912 ppm	12.4003 ppm	0.0063 ppm	0.4702 ppm
Concentration per Run 1	0.0012 ppm	16.5855 ppm	0.0031 ppm	0.0910 ppm	12.5396 ppm	0.0040 ppm	0.4737 ppm
Concentration per Run 2	0.0027 ppm	16.0408 ppm	0.0031 ppm	0.0918 ppm	12.3156 ppm	0.0092 ppm	0.4678 ppm
Concentration per Run 3	0.0057 ppm	16.4039 ppm	0.0027 ppm	0.0908 ppm	12.3456 ppm	0.0058 ppm	0.4690 ppm
Concentration RSD	71.7 %	1.7 %	7.9 %	0.5 %	1.0 %	41.3 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5511 ppm	100.1837 %	107.8710 %	82.3426 %	109.8311 %	123.3746 %	112.6780 %
Concentration per Run 1	0.5560 ppm	99.4958 %	108.3614 %	82.2630 %	109.3963 %	123.6850 %	112.3652 %
Concentration per Run 2	0.5453 ppm	100.8491 %	107.5445 %	82.6085 %	110.3863 %	123.4119 %	112.9406 %
Concentration per Run 3	0.5521 ppm	100.2062 %	107.7070 %	82.1562 %	109.7108 %	123.0268 %	112.7283 %
Concentration RSD	1.0 %	0.7 %	0.4 %	0.3 %	0.5 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976465-3D2 WG1976465
Analysis started at: 9/26/2024 1:04:14 PM
Rack 2
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0508 ppm	106.4669 ppm	0.1554 ppm	0.9471 ppm	3.3580 ppm	0.0531 ppm	40.9896 ppm
Concentration per Run 1	0.0508 ppm	106.4324 ppm	0.1548 ppm	0.9406 ppm	3.3597 ppm	0.0527 ppm	40.8930 ppm
Concentration per Run 2	0.0509 ppm	106.6262 ppm	0.1568 ppm	0.9413 ppm	3.3746 ppm	0.0535 ppm	41.1082 ppm
Concentration per Run 3	0.0507 ppm	106.3422 ppm	0.1544 ppm	0.9593 ppm	3.3396 ppm	0.0531 ppm	40.9676 ppm
Concentration RSD	0.2 %	0.1 %	0.8 %	1.1 %	0.5 %	0.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0490 ppm	0.5716 ppm	0.5221 ppm	0.6779 ppm	222.2711 ppm	57.3020 ppm	0.1024 ppm
Concentration per Run 1	0.0490 ppm	0.5709 ppm	0.5227 ppm	0.6770 ppm	222.1816 ppm	57.1890 ppm	0.1033 ppm
Concentration per Run 2	0.0486 ppm	0.5683 ppm	0.5213 ppm	0.6757 ppm	222.6581 ppm	57.4121 ppm	0.1017 ppm
Concentration per Run 3	0.0494 ppm	0.5757 ppm	0.5223 ppm	0.6810 ppm	221.9736 ppm	57.3050 ppm	0.1023 ppm
Concentration RSD	0.7 %	0.6 %	0.1 %	0.4 %	0.2 %	0.2 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	85.6031 ppm	3.0212 ppm	0.9662 ppm	13.5896 ppm	0.7218 ppm	0.6496 ppm	0.4573 ppm
Concentration per Run 1	85.6546 ppm	3.0271 ppm	0.9569 ppm	13.6856 ppm	0.7235 ppm	0.6469 ppm	0.4585 ppm
Concentration per Run 2	85.4335 ppm	3.0230 ppm	0.9599 ppm	13.5335 ppm	0.7155 ppm	0.6491 ppm	0.4524 ppm
Concentration per Run 3	85.7211 ppm	3.0136 ppm	0.9817 ppm	13.5496 ppm	0.7265 ppm	0.6527 ppm	0.4611 ppm
Concentration RSD	0.2 %	0.2 %	1.4 %	0.6 %	0.8 %	0.4 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1377 ppm	24.8864 [SIC 100]	0.9097 ppm	1.0539 ppm	12.7350 ppm	0.1415 ppm	0.9934 ppm
Concentration per Run 1	0.1371 ppm	25.1121 ppm	0.9139 ppm	1.0495 ppm	12.7667 ppm	0.1407 ppm	0.9944 ppm
Concentration per Run 2	0.1371 ppm	24.8639 ppm	0.9040 ppm	1.0607 ppm	12.7095 ppm	0.1404 ppm	0.9914 ppm
Concentration per Run 3	0.1389 ppm	24.6832 ppm	0.9111 ppm	1.0516 ppm	12.7288 ppm	0.1433 ppm	0.9945 ppm
Concentration RSD	0.8 %	0.9 %	0.6 %	0.6 %	0.2 %	1.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0211 ppm	98.4091 %	106.1977 %	78.8810 %	112.1411 %	127.6331 %	115.1822 %
Concentration per Run 1	1.0228 ppm	98.3017 %	107.4065 %	79.3611 %	111.7121 %	128.9201 %	115.2170 %
Concentration per Run 2	1.0133 ppm	98.9056 %	105.8038 %	78.7691 %	112.8569 %	127.4298 %	115.1993 %
Concentration per Run 3	1.0271 ppm	98.0199 %	105.3829 %	78.5130 %	111.8543 %	126.5495 %	115.1303 %
Concentration RSD	0.7 %	0.5 %	1.0 %	0.6 %	0.6 %	0.9 %	0.0 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976465-4D2 WG1976465
Analysis started at: 9/26/2024 1:08:09 PM
Rack 2
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	95.8606 ppm	0.0129 ppm	0.0071 ppm	1.4970 ppm	0.0018 ppm	26.2705 ppm
Concentration per Run 1	0.0000 ppm	95.4216 ppm	0.0108 ppm	0.0076 ppm	1.4923 ppm	0.0018 ppm	26.1592 ppm
Concentration per Run 2	0.0001 ppm	96.1764 ppm	0.0148 ppm	0.0059 ppm	1.5019 ppm	0.0019 ppm	26.3590 ppm
Concentration per Run 3	0.0001 ppm	95.9837 ppm	0.0131 ppm	0.0079 ppm	1.4967 ppm	0.0018 ppm	26.2933 ppm
Concentration RSD	45.9 %	0.4 %	15.7 %	15.3 %	0.3 %	3.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0916 ppm	0.3477 ppm	0.4936 ppm	222.2326 ppm	46.9990 ppm	0.0866 ppm
Concentration per Run 1	0.0006 ppm	0.0917 ppm	0.3475 ppm	0.4941 ppm	221.2196 ppm	46.6523 ppm	0.0888 ppm
Concentration per Run 2	0.0004 ppm	0.0913 ppm	0.3479 ppm	0.4914 ppm	222.8661 ppm	46.9083 ppm	0.0848 ppm
Concentration per Run 3	0.0005 ppm	0.0918 ppm	0.3475 ppm	0.4953 ppm	222.6120 ppm	47.4364 ppm	0.0860 ppm
Concentration RSD	21.2 %	0.3 %	0.1 %	0.4 %	0.4 %	0.9 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	66.4009 ppm	2.0875 ppm	0.0121 ppm	3.6434 ppm	0.2344 ppm	0.0304 ppm	0.0022 ppm
Concentration per Run 1	66.5343 ppm	2.0817 ppm	0.0119 ppm	3.6213 ppm	0.2346 ppm	0.0301 ppm	0.0016 ppm
Concentration per Run 2	66.3572 ppm	2.0991 ppm	0.0122 ppm	3.6570 ppm	0.2348 ppm	0.0307 ppm	0.0034 ppm
Concentration per Run 3	66.3114 ppm	2.0816 ppm	0.0123 ppm	3.6519 ppm	0.2337 ppm	0.0305 ppm	0.0016 ppm
Concentration RSD	0.2 %	0.5 %	1.5 %	0.5 %	0.3 %	1.0 %	48.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	15.4273 ppm	0.0028 ppm	0.0954 ppm	11.4669 ppm	0.0067 ppm	0.5031 ppm
Concentration per Run 1	0.0013 ppm	15.7152 ppm	0.0031 ppm	0.0950 ppm	11.4655 ppm	0.0048 ppm	0.5010 ppm
Concentration per Run 2	0.0033 ppm	15.1083 ppm	0.0035 ppm	0.0958 ppm	11.5548 ppm	0.0081 ppm	0.5042 ppm
Concentration per Run 3	0.0029 ppm	15.4583 ppm	0.0019 ppm	0.0952 ppm	11.3804 ppm	0.0071 ppm	0.5040 ppm
Concentration RSD	43.5 %	2.0 %	30.6 %	0.4 %	0.8 %	25.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5091 ppm	98.5658 %	107.3942 %	82.1562 %	110.2241 %	125.3894 %	114.2832 %
Concentration per Run 1	0.5119 ppm	98.7123 %	108.0709 %	82.4803 %	110.3403 %	125.8395 %	113.9273 %
Concentration per Run 2	0.5082 ppm	98.5987 %	106.5328 %	82.3328 %	110.3564 %	124.8338 %	114.6244 %
Concentration per Run 3	0.5072 ppm	98.3863 %	107.5790 %	81.6556 %	109.9755 %	125.4949 %	114.2980 %
Concentration RSD	0.5 %	0.2 %	0.7 %	0.5 %	0.2 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976465-5D2 WG1976465
Analysis started at: 9/26/2024 1:12:05 PM
Rack 2
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0477 ppm	99.3061 ppm	0.1464 ppm	0.9115 ppm	3.3335 ppm	0.0497 ppm	34.7998 ppm
Concentration per Run 1	0.0480 ppm	99.1122 ppm	0.1466 ppm	0.9102 ppm	3.3338 ppm	0.0494 ppm	34.6701 ppm
Concentration per Run 2	0.0478 ppm	99.4479 ppm	0.1469 ppm	0.9118 ppm	3.3208 ppm	0.0505 ppm	35.1349 ppm
Concentration per Run 3	0.0474 ppm	99.3582 ppm	0.1456 ppm	0.9126 ppm	3.3458 ppm	0.0493 ppm	34.5943 ppm
Concentration RSD	0.7 %	0.2 %	0.5 %	0.1 %	0.4 %	1.4 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0471 ppm	0.5401 ppm	0.5369 ppm	0.6591 ppm	198.1510 ppm	56.3590 ppm	0.0861 ppm
Concentration per Run 1	0.0470 ppm	0.5402 ppm	0.5373 ppm	0.6608 ppm	197.3409 ppm	56.1734 ppm	0.0877 ppm
Concentration per Run 2	0.0472 ppm	0.5384 ppm	0.5352 ppm	0.6590 ppm	198.3207 ppm	55.7802 ppm	0.0833 ppm
Concentration per Run 3	0.0472 ppm	0.5416 ppm	0.5381 ppm	0.6575 ppm	198.7915 ppm	57.1235 ppm	0.0873 ppm
Concentration RSD	0.3 %	0.3 %	0.3 %	0.3 %	0.4 %	1.2 %	2.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	77.9507 ppm	2.6591 ppm	0.9101 ppm	12.9138 ppm	0.6776 ppm	0.6004 ppm	0.4211 ppm
Concentration per Run 1	78.2158 ppm	2.6544 ppm	0.9010 ppm	12.9807 ppm	0.6762 ppm	0.6000 ppm	0.4163 ppm
Concentration per Run 2	77.6242 ppm	2.6678 ppm	0.9103 ppm	12.8258 ppm	0.6780 ppm	0.6003 ppm	0.4204 ppm
Concentration per Run 3	78.0121 ppm	2.6552 ppm	0.9190 ppm	12.9348 ppm	0.6786 ppm	0.6010 ppm	0.4266 ppm
Concentration RSD	0.4 %	0.3 %	1.0 %	0.6 %	0.2 %	0.1 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1357 ppm	18.0874 ppm	0.9057 ppm	1.0100 ppm	13.2280 ppm	0.1357 ppm	0.9412 ppm
Concentration per Run 1	0.1333 ppm	18.5163 ppm	0.9000 ppm	1.0042 ppm	13.3473 ppm	0.1354 ppm	0.9412 ppm
Concentration per Run 2	0.1381 ppm	17.7120 ppm	0.9035 ppm	1.0168 ppm	13.3032 ppm	0.1344 ppm	0.9391 ppm
Concentration per Run 3	0.1357 ppm	18.0339 ppm	0.9135 ppm	1.0090 ppm	13.0335 ppm	0.1371 ppm	0.9432 ppm
Concentration RSD	1.8 %	2.2 %	0.8 %	0.6 %	1.3 %	1.0 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9940 ppm	97.9836 %	105.5480 %	79.4199 %	107.4251 %	120.9376 %	110.8806 %
Concentration per Run 1	0.9978 ppm	97.9229 %	105.8561 %	80.0274 %	107.1596 %	120.8505 %	110.8414 %
Concentration per Run 2	0.9917 ppm	98.8877 %	103.7976 %	79.2979 %	108.4337 %	120.0057 %	112.0004 %
Concentration per Run 3	0.9924 ppm	97.1402 %	106.9902 %	78.9346 %	106.6820 %	121.9566 %	109.8001 %
Concentration RSD	0.3 %	0.9 %	1.5 %	0.7 %	0.8 %	0.8 %	1.0 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976465-6D10 WG1976465
Analysis started at: 9/26/2024 1:16:01 PM
Rack 2
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	21.6025 ppm	0.0026 ppm	0.0032 ppm	0.3385 ppm	0.0004 ppm	5.7369 ppm
Concentration per Run 1	-0.0002 ppm	21.5428 ppm	0.0025 ppm	0.0037 ppm	0.3377 ppm	0.0004 ppm	5.7885 ppm
Concentration per Run 2	0.0003 ppm	21.5533 ppm	0.0024 ppm	0.0025 ppm	0.3340 ppm	0.0004 ppm	5.7498 ppm
Concentration per Run 3	-0.0002 ppm	21.7113 ppm	0.0027 ppm	0.0034 ppm	0.3438 ppm	0.0003 ppm	5.6724 ppm
Concentration RSD	558.9 %	0.4 %	6.7 %	20.4 %	1.5 %	24.7 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0203 ppm	0.0796 ppm	0.0905 ppm	46.1193 ppm	10.5697 ppm	0.0190 ppm
Concentration per Run 1	0.0000 ppm	0.0208 ppm	0.0809 ppm	0.0914 ppm	46.0780 ppm	10.4995 ppm	0.0195 ppm
Concentration per Run 2	0.0002 ppm	0.0205 ppm	0.0795 ppm	0.0907 ppm	45.4801 ppm	10.3056 ppm	0.0180 ppm
Concentration per Run 3	0.0001 ppm	0.0197 ppm	0.0782 ppm	0.0894 ppm	46.7997 ppm	10.9041 ppm	0.0197 ppm
Concentration RSD	60.1 %	2.8 %	1.7 %	1.1 %	1.4 %	2.9 %	4.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.4438 ppm	0.4956 ppm	0.0041 ppm	0.8400 ppm	0.0531 ppm	0.0042 ppm	0.0057 ppm
Concentration per Run 1	15.7156 ppm	0.4967 ppm	0.0042 ppm	0.8287 ppm	0.0538 ppm	0.0055 ppm	0.0059 ppm
Concentration per Run 2	15.3885 ppm	0.4959 ppm	0.0039 ppm	0.8357 ppm	0.0529 ppm	0.0044 ppm	0.0045 ppm
Concentration per Run 3	15.2274 ppm	0.4941 ppm	0.0041 ppm	0.8556 ppm	0.0525 ppm	0.0027 ppm	0.0068 ppm
Concentration RSD	1.6 %	0.3 %	4.2 %	1.7 %	1.2 %	33.3 %	19.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	3.6957 ppm	0.0017 ppm	0.0197 ppm	2.8103 ppm	0.0002 ppm	0.1053 ppm
Concentration per Run 1	0.0005 ppm	3.8256 ppm	0.0021 ppm	0.0200 ppm	2.8633 ppm	0.0006 ppm	0.1069 ppm
Concentration per Run 2	0.0013 ppm	3.6562 ppm	0.0019 ppm	0.0198 ppm	2.7869 ppm	-0.0010 ppm	0.1044 ppm
Concentration per Run 3	0.0025 ppm	3.6053 ppm	0.0012 ppm	0.0192 ppm	2.7806 ppm	0.0010 ppm	0.1044 ppm
Concentration RSD	68.8 %	3.1 %	25.0 %	2.3 %	1.6 %	525.2 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1265 ppm	93.9286 %	102.6505 %	91.5148 %	94.3112 %	105.8988 %	98.1788 %
Concentration per Run 1	0.1287 ppm	92.5425 %	101.1393 %	91.2951 %	93.3062 %	104.8678 %	98.1258 %
Concentration per Run 2	0.1261 ppm	94.3957 %	101.5733 %	91.9314 %	94.7203 %	104.5438 %	98.6404 %
Concentration per Run 3	0.1246 ppm	94.8475 %	105.2389 %	91.3180 %	94.9071 %	108.2847 %	97.7703 %
Concentration RSD	1.6 %	1.3 %	2.2 %	0.4 %	0.9 %	2.0 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455430-02D2 WG1976465
Analysis started at: 9/26/2024 1:19:57 PM
Rack 2
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	84.4460 ppm	0.0109 ppm	0.0128 ppm	1.1725 ppm	0.0026 ppm	204.1783 ppm
Concentration per Run 1	-0.0006 ppm	84.0143 ppm	0.0112 ppm	0.0127 ppm	1.1632 ppm	0.0027 ppm	204.0666 ppm
Concentration per Run 2	-0.0005 ppm	84.7358 ppm	0.0100 ppm	0.0140 ppm	1.1756 ppm	0.0026 ppm	203.6960 ppm
Concentration per Run 3	-0.0003 ppm	84.5880 ppm	0.0115 ppm	0.0117 ppm	1.1785 ppm	0.0026 ppm	204.7721 ppm
Concentration RSD	27.1 %	0.5 %	7.3 %	8.6 %	0.7 %	3.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0695 ppm	0.2495 ppm	0.2148 ppm	170.8776 ppm	42.7136 ppm	0.0991 ppm
Concentration per Run 1	-0.0003 ppm	0.0696 ppm	0.2499 ppm	0.2137 ppm	170.4403 ppm	42.7147 ppm	0.1011 ppm
Concentration per Run 2	-0.0003 ppm	0.0696 ppm	0.2499 ppm	0.2156 ppm	171.1285 ppm	42.3317 ppm	0.0968 ppm
Concentration per Run 3	-0.0001 ppm	0.0694 ppm	0.2487 ppm	0.2151 ppm	171.0641 ppm	43.0942 ppm	0.0993 ppm
Concentration RSD	43.2 %	0.1 %	0.3 %	0.5 %	0.2 %	0.9 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	131.2709 ppm	2.0403 ppm	0.0023 ppm	3.3291 ppm	0.1597 ppm	0.0413 ppm	0.0017 ppm
Concentration per Run 1	131.5882 ppm	2.0402 ppm	0.0015 ppm	3.2986 ppm	0.1591 ppm	0.0413 ppm	0.0025 ppm
Concentration per Run 2	131.1854 ppm	2.0396 ppm	0.0026 ppm	3.3625 ppm	0.1619 ppm	0.0402 ppm	0.0008 ppm
Concentration per Run 3	131.0391 ppm	2.0412 ppm	0.0027 ppm	3.3261 ppm	0.1581 ppm	0.0424 ppm	0.0017 ppm
Concentration RSD	0.2 %	0.0 %	29.3 %	1.0 %	1.2 %	2.7 %	49.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	17.5810 ppm	0.0046 ppm	0.2079 ppm	9.9419 ppm	0.0044 ppm	0.3333 ppm
Concentration per Run 1	-0.0003 ppm	17.7736 ppm	0.0042 ppm	0.2085 ppm	9.9204 ppm	0.0060 ppm	0.3342 ppm
Concentration per Run 2	0.0001 ppm	17.5822 ppm	0.0050 ppm	0.2063 ppm	10.0108 ppm	0.0041 ppm	0.3342 ppm
Concentration per Run 3	0.0005 ppm	17.3873 ppm	0.0047 ppm	0.2090 ppm	9.8945 ppm	0.0031 ppm	0.3315 ppm
Concentration RSD	525.7 %	1.1 %	8.3 %	0.7 %	0.6 %	34.3 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4346 ppm	95.2282 %	103.7559 %	78.7092 %	106.8840 %	122.4500 %	109.6709 %
Concentration per Run 1	0.4327 ppm	94.9438 %	103.7959 %	79.2603 %	106.2224 %	122.6903 %	110.0220 %
Concentration per Run 2	0.4379 ppm	95.7328 %	104.1409 %	78.7218 %	107.8311 %	122.6761 %	110.0244 %
Concentration per Run 3	0.4331 ppm	95.0082 %	103.3307 %	78.1455 %	106.5984 %	121.9836 %	108.9662 %
Concentration RSD	0.7 %	0.5 %	0.4 %	0.7 %	0.8 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455430-03D2 WG1976465
Analysis started at: 9/26/2024 1:23:53 PM
Rack 2
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	81.5105 ppm	0.0107 ppm	0.0062 ppm	1.4205 ppm	0.0018 ppm	74.4395 ppm
Concentration per Run 1	-0.0001 ppm	81.4692 ppm	0.0086 ppm	0.0060 ppm	1.4157 ppm	0.0018 ppm	74.3963 ppm
Concentration per Run 2	0.0000 ppm	81.8241 ppm	0.0106 ppm	0.0075 ppm	1.4330 ppm	0.0016 ppm	74.2640 ppm
Concentration per Run 3	-0.0005 ppm	81.2383 ppm	0.0128 ppm	0.0052 ppm	1.4127 ppm	0.0019 ppm	74.6583 ppm
Concentration RSD	151.1 %	0.4 %	19.9 %	18.9 %	0.8 %	8.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0817 ppm	0.3195 ppm	0.3250 ppm	179.7599 ppm	42.4946 ppm	0.0837 ppm
Concentration per Run 1	-0.0001 ppm	0.0816 ppm	0.3196 ppm	0.3252 ppm	179.3944 ppm	42.4231 ppm	0.0853 ppm
Concentration per Run 2	0.0001 ppm	0.0822 ppm	0.3187 ppm	0.3261 ppm	181.4297 ppm	43.0635 ppm	0.0849 ppm
Concentration per Run 3	-0.0002 ppm	0.0814 ppm	0.3200 ppm	0.3237 ppm	178.4556 ppm	41.9971 ppm	0.0808 ppm
Concentration RSD	280.4 %	0.5 %	0.2 %	0.4 %	0.8 %	1.3 %	2.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	84.7369 ppm	1.5780 ppm	0.0012 ppm	4.8504 ppm	0.2002 ppm	0.0228 ppm	0.0007 ppm
Concentration per Run 1	85.6407 ppm	1.5766 ppm	0.0009 ppm	4.8609 ppm	0.2006 ppm	0.0233 ppm	0.0032 ppm
Concentration per Run 2	84.0305 ppm	1.5815 ppm	0.0016 ppm	4.8931 ppm	0.1984 ppm	0.0216 ppm	-0.0014 ppm
Concentration per Run 3	84.5394 ppm	1.5759 ppm	0.0010 ppm	4.7974 ppm	0.2018 ppm	0.0235 ppm	0.0004 ppm
Concentration RSD	1.0 %	0.2 %	33.9 %	1.0 %	0.9 %	4.6 %	320.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0039 ppm	11.3416 ppm	0.0023 ppm	0.1349 ppm	10.3061 ppm	0.0045 ppm	0.4087 ppm
Concentration per Run 1	0.0029 ppm	11.2811 ppm	0.0026 ppm	0.1345 ppm	10.3622 ppm	0.0041 ppm	0.4106 ppm
Concentration per Run 2	0.0053 ppm	11.3430 ppm	0.0034 ppm	0.1348 ppm	10.2415 ppm	0.0064 ppm	0.4055 ppm
Concentration per Run 3	0.0034 ppm	11.4006 ppm	0.0008 ppm	0.1355 ppm	10.3146 ppm	0.0028 ppm	0.4100 ppm
Concentration RSD	31.7 %	0.5 %	58.2 %	0.4 %	0.6 %	40.6 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4333 ppm	95.3009 %	103.3382 %	80.6581 %	103.7271 %	117.4423 %	107.9494 %
Concentration per Run 1	0.4377 ppm	94.0470 %	103.5578 %	81.0736 %	102.1624 %	117.5786 %	108.0887 %
Concentration per Run 2	0.4291 ppm	96.2871 %	104.2054 %	80.6819 %	104.9944 %	118.2287 %	108.0227 %
Concentration per Run 3	0.4331 ppm	95.5686 %	102.2512 %	80.2186 %	104.0245 %	116.5195 %	107.7367 %
Concentration RSD	1.0 %	1.2 %	1.0 %	0.5 %	1.4 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 1:27:49 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5085 ppm	0.4915 ppm	0.4913 ppm	0.5031 ppm	0.5103 ppm	0.5190 ppm	0.5030 ppm
Concentration per Run 1	0.5130 ppm	0.4884 ppm	0.4881 ppm	0.5053 ppm	0.5089 ppm	0.5181 ppm	0.5022 ppm
Concentration per Run 2	0.5068 ppm	0.4973 ppm	0.4924 ppm	0.4987 ppm	0.5110 ppm	0.5202 ppm	0.5043 ppm
Concentration per Run 3	0.5059 ppm	0.4889 ppm	0.4933 ppm	0.5052 ppm	0.5110 ppm	0.5189 ppm	0.5026 ppm
Recovery Percentage 1	101.708 %	98.306 %	98.257 %	100.619 %	102.063 %	103.808 %	100.608 %
Concentration RSD	0.8 %	1.0 %	0.6 %	0.7 %	0.2 %	0.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5128 ppm	0.5177 ppm	0.5025 ppm	0.4972 ppm	0.5289 ppm	5.3733 ppm	0.5035 ppm
Concentration per Run 1	0.5151 ppm	0.5197 ppm	0.5067 ppm	0.4994 ppm	0.5258 ppm	5.3761 ppm	0.5004 ppm
Concentration per Run 2	0.5105 ppm	0.5152 ppm	0.4998 ppm	0.4969 ppm	0.5301 ppm	5.3446 ppm	0.5047 ppm
Concentration per Run 3	0.5127 ppm	0.5181 ppm	0.5010 ppm	0.4953 ppm	0.5307 ppm	5.3991 ppm	0.5055 ppm
Recovery Percentage 1	102.557 %	103.534 %	100.502 %	99.447 %	105.776 %	107.465 %	100.707 %
Concentration RSD	0.5 %	0.4 %	0.7 %	0.4 %	0.5 %	0.5 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4997 ppm	0.5056 ppm	0.5131 ppm	10.2028 ppm	0.5189 ppm	0.5004 ppm	0.5114 ppm
Concentration per Run 1	0.5051 ppm	0.5040 ppm	0.5133 ppm	10.1210 ppm	0.5244 ppm	0.4972 ppm	0.5159 ppm
Concentration per Run 2	0.4973 ppm	0.5060 ppm	0.5107 ppm	10.2206 ppm	0.5131 ppm	0.5024 ppm	0.5113 ppm
Concentration per Run 3	0.4967 ppm	0.5069 ppm	0.5153 ppm	10.2667 ppm	0.5192 ppm	0.5017 ppm	0.5070 ppm
Recovery Percentage 1	99.938 %	101.123 %	102.617 %	102.028 %	103.787 %	100.084 %	102.282 %
Concentration RSD	0.9 %	0.3 %	0.4 %	0.7 %	1.1 %	0.6 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4985 ppm	5.6678 ppm	0.4927 ppm	0.4909 ppm	0.5131 ppm	0.4966 ppm	0.5050 ppm
Concentration per Run 1	0.4989 ppm	5.7020 ppm	0.4947 ppm	0.4901 ppm	0.5190 ppm	0.4932 ppm	0.5075 ppm
Concentration per Run 2	0.4983 ppm	5.6442 ppm	0.4922 ppm	0.4918 ppm	0.5107 ppm	0.4956 ppm	0.5039 ppm
Concentration per Run 3	0.4984 ppm	5.6571 ppm	0.4912 ppm	0.4908 ppm	0.5095 ppm	0.5010 ppm	0.5036 ppm
Recovery Percentage 1	99.709 %	107.957 %	98.540 %	98.175 %	102.615 %	99.319 %	100.999 %
Concentration RSD	0.1 %	0.5 %	0.4 %	0.2 %	1.0 %	0.8 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5141 ppm	94.3750 %	102.4165 %	93.3511 %	91.2440 %	101.4610 %	93.7556 %
Concentration per Run 1	0.5213 ppm	93.7609 %	102.8092 %	93.8633 %	90.6821 %	101.8989 %	94.1380 %
Concentration per Run 2	0.5073 ppm	94.6337 %	101.6348 %	92.9456 %	91.5007 %	100.4048 %	93.2621 %
Concentration per Run 3	0.5138 ppm	94.7303 %	102.8056 %	93.2443 %	91.5492 %	102.0792 %	93.8667 %
Recovery Percentage 1	102.828 %						
Concentration RSD	1.4 %	0.6 %	0.7 %	0.5 %	0.5 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 1:31:45 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0028 ppm	0.0001 ppm	0.0012 ppm	-0.0001 ppm	0.0000 ppm	0.0043 ppm
Concentration per Run 1	0.0000 ppm	-0.0079 ppm	0.0012 ppm	0.0013 ppm	-0.0002 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 2	0.0002 ppm	0.0019 ppm	-0.0009 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 3	-0.0004 ppm	-0.0024 ppm	-0.0002 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0044 ppm
Recovery Percentage 1	-0.789 %	-2.803 %	1.713 %	4.144 %	-1.184 %	-0.107 %	4.295 %
Concentration RSD	507.3 %	175.1 %	2,067.9 %	9.9 %	64.9 %	881.6 %	23.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0014 ppm	0.0043 ppm	0.0107 ppm	0.0014 ppm
Concentration per Run 1	0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0016 ppm	0.0040 ppm	-0.0023 ppm	0.0009 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0014 ppm	0.0059 ppm	0.0125 ppm	0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0012 ppm	0.0031 ppm	0.0219 ppm	0.0023 ppm
Recovery Percentage 1	1.300 %	-0.806 %	-0.287 %	13.976 %	8.657 %	0.428 %	13.663 %
Concentration RSD	151.1 %	94.7 %	548.7 %	11.8 %	33.9 %	113.9 %	60.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0007 ppm	0.0000 ppm	0.0018 ppm	0.0099 ppm	0.0007 ppm	0.0001 ppm	-0.0012 ppm
Concentration per Run 1	0.0020 ppm	-0.0001 ppm	0.0015 ppm	0.0102 ppm	0.0008 ppm	0.0010 ppm	-0.0001 ppm
Concentration per Run 2	-0.0005 ppm	0.0000 ppm	0.0017 ppm	0.0082 ppm	0.0009 ppm	-0.0007 ppm	-0.0038 ppm
Concentration per Run 3	0.0006 ppm	0.0001 ppm	0.0022 ppm	0.0112 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm
Recovery Percentage 1	0.671 %	0.199 %	3.617 %	0.494 %	2.852 %	0.918 %	-2.435 %
Concentration RSD	186.3 %	586.9 %	19.9 %	15.2 %	39.7 %	892.4 %	182.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	0.0068 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 1	0.0002 ppm	0.0117 ppm	0.0002 ppm	-0.0001 ppm	0.0004 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 2	-0.0018 ppm	0.0063 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 3	0.0026 ppm	0.0024 ppm	-0.0003 ppm	-0.0001 ppm	0.0003 ppm	0.0012 ppm	0.0002 ppm
Recovery Percentage 1	3.557 %	1.361 %	0.163 %	-0.392 %	2.660 %	2.217 %	1.346 %
Concentration RSD	626.8 %	68.8 %	400.8 %	229.1 %	70.0 %	215.5 %	44.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	91.0858 %	99.8451 %	93.0134 %	92.1858 %	100.8209 %	94.7316 %
Concentration per Run 1	0.0005 ppm	89.3206 %	99.0173 %	92.7522 %	90.8654 %	100.3697 %	94.7773 %
Concentration per Run 2	0.0005 ppm	91.5359 %	100.5573 %	93.1264 %	92.5849 %	101.3333 %	94.7153 %
Concentration per Run 3	0.0005 ppm	92.4009 %	99.9609 %	93.1617 %	93.1071 %	100.7596 %	94.7021 %
Recovery Percentage 1	9.939 %						
Concentration RSD	6.0 %	1.7 %	0.8 %	0.2 %	1.3 %	0.5 %	0.0 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454018-01d2 WG1975344
Analysis started at: 9/26/2024 1:37:49 PM
Rack 1
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	124.8774 ppm	0.1304 ppm	0.0055 ppm	0.6385 ppm	0.0044 ppm	13.0092 ppm
Concentration per Run 1	-0.0001 ppm	126.2066 ppm	0.1291 ppm	0.0060 ppm	0.6521 ppm	0.0040 ppm	12.9420 ppm
Concentration per Run 2	-0.0001 ppm	123.7550 ppm	0.1317 ppm	0.0049 ppm	0.6337 ppm	0.0045 ppm	13.0759 ppm
Concentration per Run 3	-0.0004 ppm	124.6706 ppm	0.1304 ppm	0.0058 ppm	0.6297 ppm	0.0046 ppm	13.0097 ppm
Concentration RSD	84.9 %	1.0 %	1.0 %	10.4 %	1.9 %	8.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0455 ppm	0.2423 ppm	0.1017 ppm	138.1851 ppm	31.9305 ppm	0.1414 ppm
Concentration per Run 1	0.0002 ppm	0.0454 ppm	0.2411 ppm	0.1020 ppm	140.4470 ppm	33.4561 ppm	0.1489 ppm
Concentration per Run 2	0.0003 ppm	0.0453 ppm	0.2427 ppm	0.1020 ppm	136.2515 ppm	31.1809 ppm	0.1370 ppm
Concentration per Run 3	0.0002 ppm	0.0460 ppm	0.2432 ppm	0.1011 ppm	137.8568 ppm	31.1546 ppm	0.1384 ppm
Concentration RSD	25.9 %	0.8 %	0.5 %	0.5 %	1.5 %	4.1 %	4.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	39.0587 ppm	1.6728 ppm	0.0069 ppm	1.3681 ppm	0.1351 ppm	0.0867 ppm	-0.0015 ppm
Concentration per Run 1	38.9467 ppm	1.6743 ppm	0.0067 ppm	1.4139 ppm	0.1347 ppm	0.0856 ppm	0.0003 ppm
Concentration per Run 2	39.1475 ppm	1.6628 ppm	0.0071 ppm	1.3417 ppm	0.1352 ppm	0.0862 ppm	-0.0045 ppm
Concentration per Run 3	39.0820 ppm	1.6812 ppm	0.0068 ppm	1.3486 ppm	0.1353 ppm	0.0883 ppm	-0.0002 ppm
Concentration RSD	0.3 %	0.6 %	3.5 %	2.9 %	0.2 %	1.6 %	175.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	6.1081 ppm	0.0029 ppm	0.0585 ppm	6.3517 ppm	0.0044 ppm	0.2193 ppm
Concentration per Run 1	0.0006 ppm	6.1278 ppm	0.0028 ppm	0.0573 ppm	6.3115 ppm	0.0038 ppm	0.2176 ppm
Concentration per Run 2	0.0012 ppm	6.1140 ppm	0.0028 ppm	0.0588 ppm	6.3505 ppm	0.0059 ppm	0.2191 ppm
Concentration per Run 3	0.0005 ppm	6.0824 ppm	0.0030 ppm	0.0593 ppm	6.3931 ppm	0.0036 ppm	0.2211 ppm
Concentration RSD	47.1 %	0.4 %	2.7 %	1.7 %	0.6 %	28.8 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3744 ppm	106.0946 %	107.1448 %	91.1825 %	114.8573 %	120.8621 %	116.4244 %
Concentration per Run 1	0.3722 ppm	106.6430 %	109.5956 %	91.3252 %	115.8991 %	122.1349 %	116.4103 %
Concentration per Run 2	0.3773 ppm	106.0507 %	107.4689 %	90.8380 %	114.4857 %	121.5512 %	116.3536 %
Concentration per Run 3	0.3736 ppm	105.5901 %	104.3700 %	91.3843 %	114.1871 %	118.9001 %	116.5092 %
Concentration RSD	0.7 %	0.5 %	2.5 %	0.3 %	0.8 %	1.4 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454018-02d2 WG1975344
Analysis started at: 9/26/2024 1:42:01 PM
Rack 1
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	128.7033 ppm	0.1350 ppm	0.0039 ppm	0.9925 ppm	0.0036 ppm	25.9378 ppm
Concentration per Run 1	-0.0005 ppm	128.1702 ppm	0.1342 ppm	0.0045 ppm	0.9876 ppm	0.0036 ppm	25.8556 ppm
Concentration per Run 2	-0.0003 ppm	128.8320 ppm	0.1365 ppm	0.0027 ppm	0.9936 ppm	0.0035 ppm	25.9003 ppm
Concentration per Run 3	-0.0005 ppm	129.1077 ppm	0.1344 ppm	0.0046 ppm	0.9964 ppm	0.0036 ppm	26.0574 ppm
Concentration RSD	31.3 %	0.4 %	0.9 %	27.1 %	0.5 %	1.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0584 ppm	0.4294 ppm	0.1381 ppm	141.2725 ppm	53.4476 ppm	0.1430 ppm
Concentration per Run 1	0.0000 ppm	0.0590 ppm	0.4343 ppm	0.1401 ppm	140.6189 ppm	53.2004 ppm	0.1447 ppm
Concentration per Run 2	-0.0002 ppm	0.0582 ppm	0.4273 ppm	0.1382 ppm	142.0136 ppm	53.6467 ppm	0.1420 ppm
Concentration per Run 3	-0.0002 ppm	0.0579 ppm	0.4264 ppm	0.1360 ppm	141.1849 ppm	53.4958 ppm	0.1424 ppm
Concentration RSD	86.0 %	1.1 %	1.0 %	1.5 %	0.5 %	0.4 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	56.3545 ppm	2.0540 ppm	0.0168 ppm	3.4766 ppm	0.2507 ppm	0.0486 ppm	-0.0029 ppm
Concentration per Run 1	56.8795 ppm	2.0491 ppm	0.0173 ppm	3.4434 ppm	0.2536 ppm	0.0481 ppm	-0.0010 ppm
Concentration per Run 2	56.1897 ppm	2.0563 ppm	0.0168 ppm	3.4837 ppm	0.2493 ppm	0.0487 ppm	-0.0025 ppm
Concentration per Run 3	55.9942 ppm	2.0568 ppm	0.0163 ppm	3.5025 ppm	0.2492 ppm	0.0491 ppm	-0.0052 ppm
Concentration RSD	0.8 %	0.2 %	3.0 %	0.9 %	1.0 %	1.1 %	73.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	3.9531 ppm	0.0022 ppm	0.1290 ppm	7.7882 ppm	0.0038 ppm	0.2734 ppm
Concentration per Run 1	-0.0029 ppm	3.9915 ppm	0.0020 ppm	0.1289 ppm	7.8606 ppm	0.0029 ppm	0.2750 ppm
Concentration per Run 2	0.0009 ppm	3.9457 ppm	0.0025 ppm	0.1287 ppm	7.7857 ppm	0.0051 ppm	0.2736 ppm
Concentration per Run 3	0.0026 ppm	3.9220 ppm	0.0021 ppm	0.1294 ppm	7.7182 ppm	0.0033 ppm	0.2716 ppm
Concentration RSD	1,382.1 %	0.9 %	10.7 %	0.3 %	0.9 %	30.6 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2948 ppm	97.3240 %	106.7770 %	86.2460 %	104.9814 %	120.3980 %	109.7753 %
Concentration per Run 1	0.2992 ppm	96.6061 %	107.4742 %	86.5450 %	104.8158 %	121.1031 %	109.9077 %
Concentration per Run 2	0.2924 ppm	97.6543 %	106.8596 %	86.3079 %	105.1596 %	120.3227 %	109.7354 %
Concentration per Run 3	0.2928 ppm	97.7115 %	105.9973 %	85.8850 %	104.9687 %	119.7682 %	109.6828 %
Concentration RSD	1.3 %	0.6 %	0.7 %	0.4 %	0.2 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-41d2 WG1975344
Analysis started at: 9/26/2024 1:45:57 PM
Rack 1
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	175.1522 ppm	0.1226 ppm	0.0599 ppm	0.6728 ppm	0.0084 ppm	40.3833 ppm
Concentration per Run 1	-0.0006 ppm	174.5523 ppm	0.1203 ppm	0.0603 ppm	0.6647 ppm	0.0082 ppm	40.1942 ppm
Concentration per Run 2	-0.0002 ppm	175.0682 ppm	0.1237 ppm	0.0595 ppm	0.6761 ppm	0.0083 ppm	40.3799 ppm
Concentration per Run 3	-0.0011 ppm	175.8360 ppm	0.1239 ppm	0.0597 ppm	0.6775 ppm	0.0086 ppm	40.5757 ppm
Concentration RSD	72.7 %	0.4 %	1.7 %	0.7 %	1.0 %	2.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.1170 ppm	0.3918 ppm	0.2363 ppm	265.1606 ppm	55.8188 ppm	0.3575 ppm
Concentration per Run 1	0.0002 ppm	0.1169 ppm	0.3937 ppm	0.2359 ppm	264.6039 ppm	55.8159 ppm	0.3611 ppm
Concentration per Run 2	0.0004 ppm	0.1180 ppm	0.3907 ppm	0.2373 ppm	264.7690 ppm	55.9193 ppm	0.3501 ppm
Concentration per Run 3	0.0002 ppm	0.1162 ppm	0.3911 ppm	0.2356 ppm	266.1088 ppm	55.7214 ppm	0.3612 ppm
Concentration RSD	47.4 %	0.8 %	0.4 %	0.4 %	0.3 %	0.2 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	90.0192 ppm	4.4320 ppm	0.0046 ppm	13.2328 ppm	0.2724 ppm	0.1068 ppm	0.0000 ppm
Concentration per Run 1	90.3859 ppm	4.4146 ppm	0.0046 ppm	13.2585 ppm	0.2744 ppm	0.1042 ppm	-0.0020 ppm
Concentration per Run 2	90.2346 ppm	4.4342 ppm	0.0043 ppm	13.2566 ppm	0.2699 ppm	0.1076 ppm	-0.0008 ppm
Concentration per Run 3	89.4371 ppm	4.4473 ppm	0.0051 ppm	13.1834 ppm	0.2730 ppm	0.1086 ppm	0.0029 ppm
Concentration RSD	0.6 %	0.4 %	9.4 %	0.3 %	0.9 %	2.2 %	7,237.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	1.9791 ppm	0.0083 ppm	0.2306 ppm	10.7478 ppm	0.0050 ppm	0.4892 ppm
Concentration per Run 1	-0.0005 ppm	2.0059 ppm	0.0080 ppm	0.2282 ppm	10.7448 ppm	0.0022 ppm	0.4910 ppm
Concentration per Run 2	-0.0011 ppm	1.9834 ppm	0.0095 ppm	0.2300 ppm	10.6937 ppm	0.0068 ppm	0.4879 ppm
Concentration per Run 3	0.0007 ppm	1.9480 ppm	0.0075 ppm	0.2334 ppm	10.8049 ppm	0.0060 ppm	0.4886 ppm
Concentration RSD	302.8 %	1.5 %	12.5 %	1.2 %	0.5 %	49.7 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6326 ppm	100.4903 %	110.2882 %	83.1464 %	119.1110 %	138.3180 %	124.7437 %
Concentration per Run 1	0.6322 ppm	99.6612 %	110.9918 %	83.6075 %	117.5046 %	139.0554 %	125.2391 %
Concentration per Run 2	0.6350 ppm	100.6269 %	110.4459 %	83.5488 %	119.7974 %	138.1086 %	124.9485 %
Concentration per Run 3	0.6305 ppm	101.1827 %	109.4267 %	82.2829 %	120.0311 %	137.7901 %	124.0434 %
Concentration RSD	0.4 %	0.8 %	0.7 %	0.9 %	1.2 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-43d2 WG1975344
Analysis started at: 9/26/2024 1:49:53 PM
Rack 1
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	191.1024 ppm	0.1070 ppm	0.0600 ppm	0.6635 ppm	0.0089 ppm	43.0166 ppm
Concentration per Run 1	-0.0006 ppm	190.4469 ppm	0.1071 ppm	0.0595 ppm	0.6635 ppm	0.0089 ppm	42.9207 ppm
Concentration per Run 2	-0.0003 ppm	191.5272 ppm	0.1074 ppm	0.0595 ppm	0.6568 ppm	0.0091 ppm	43.1984 ppm
Concentration per Run 3	-0.0008 ppm	191.3330 ppm	0.1065 ppm	0.0610 ppm	0.6703 ppm	0.0088 ppm	42.9307 ppm
Concentration RSD	45.1 %	0.3 %	0.4 %	1.4 %	1.0 %	1.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.1277 ppm	0.4263 ppm	0.2662 ppm	291.6150 ppm	55.4927 ppm	0.3988 ppm
Concentration per Run 1	0.0004 ppm	0.1283 ppm	0.4289 ppm	0.2661 ppm	289.2645 ppm	54.9668 ppm	0.3949 ppm
Concentration per Run 2	0.0007 ppm	0.1277 ppm	0.4228 ppm	0.2658 ppm	292.7876 ppm	55.7994 ppm	0.3988 ppm
Concentration per Run 3	0.0004 ppm	0.1272 ppm	0.4272 ppm	0.2665 ppm	292.7928 ppm	55.7119 ppm	0.4027 ppm
Concentration RSD	25.7 %	0.4 %	0.7 %	0.1 %	0.7 %	0.8 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	100.9065 ppm	5.2261 ppm	0.0048 ppm	8.6133 ppm	0.3013 ppm	0.1164 ppm	0.0019 ppm
Concentration per Run 1	101.6182 ppm	5.2066 ppm	0.0043 ppm	8.5992 ppm	0.3030 ppm	0.1154 ppm	-0.0016 ppm
Concentration per Run 2	100.6094 ppm	5.2512 ppm	0.0051 ppm	8.5745 ppm	0.2994 ppm	0.1169 ppm	0.0032 ppm
Concentration per Run 3	100.4918 ppm	5.2204 ppm	0.0050 ppm	8.6663 ppm	0.3016 ppm	0.1169 ppm	0.0039 ppm
Concentration RSD	0.6 %	0.4 %	8.6 %	0.6 %	0.6 %	0.7 %	161.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0021 ppm	2.2754 ppm	0.0097 ppm	0.2501 ppm	10.7864 ppm	0.0061 ppm	0.5164 ppm
Concentration per Run 1	-0.0006 ppm	2.2926 ppm	0.0093 ppm	0.2501 ppm	10.7839 ppm	0.0041 ppm	0.5194 ppm
Concentration per Run 2	-0.0037 ppm	2.2697 ppm	0.0098 ppm	0.2507 ppm	10.7608 ppm	0.0075 ppm	0.5127 ppm
Concentration per Run 3	-0.0021 ppm	2.2639 ppm	0.0100 ppm	0.2495 ppm	10.8145 ppm	0.0066 ppm	0.5170 ppm
Concentration RSD	73.6 %	0.7 %	3.5 %	0.2 %	0.2 %	29.6 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6873 ppm	100.9682 %	110.0145 %	82.7960 %	121.1319 %	139.2173 %	126.2222 %
Concentration per Run 1	0.6963 ppm	100.1249 %	110.2674 %	82.7114 %	119.9657 %	139.6636 %	126.3196 %
Concentration per Run 2	0.6828 ppm	101.4037 %	108.7207 %	82.6548 %	121.7266 %	137.6067 %	125.6780 %
Concentration per Run 3	0.6828 ppm	101.3759 %	111.0555 %	83.0219 %	121.7033 %	140.3815 %	126.6691 %
Concentration RSD	1.1 %	0.7 %	1.1 %	0.2 %	0.8 %	1.0 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-45d2 WG1975344
Analysis started at: 9/26/2024 1:53:49 PM
Rack 1
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0020 ppm	97.6053 ppm	0.1167 ppm	0.0306 ppm	0.7300 ppm	0.0042 ppm	55.8680 ppm
Concentration per Run 1	0.0022 ppm	97.1196 ppm	0.1156 ppm	0.0303 ppm	0.7370 ppm	0.0042 ppm	55.4486 ppm
Concentration per Run 2	0.0022 ppm	97.6493 ppm	0.1149 ppm	0.0304 ppm	0.7311 ppm	0.0042 ppm	55.8112 ppm
Concentration per Run 3	0.0017 ppm	98.0469 ppm	0.1195 ppm	0.0310 ppm	0.7218 ppm	0.0043 ppm	56.3442 ppm
Concentration RSD	13.5 %	0.5 %	2.1 %	1.2 %	1.1 %	0.9 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0073 ppm	0.0718 ppm	0.1952 ppm	1.2249 ppm	200.1227 ppm	12.0432 ppm	0.1707 ppm
Concentration per Run 1	0.0073 ppm	0.0723 ppm	0.1971 ppm	1.2414 ppm	198.4308 ppm	12.0712 ppm	0.1708 ppm
Concentration per Run 2	0.0072 ppm	0.0719 ppm	0.1946 ppm	1.2182 ppm	200.9639 ppm	12.0208 ppm	0.1720 ppm
Concentration per Run 3	0.0073 ppm	0.0712 ppm	0.1939 ppm	1.2152 ppm	200.9733 ppm	12.0375 ppm	0.1694 ppm
Concentration RSD	0.9 %	0.8 %	0.9 %	1.2 %	0.7 %	0.2 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	36.7552 ppm	2.4702 ppm	0.0169 ppm	1.5275 ppm	0.1758 ppm	1.8982 ppm	0.0090 ppm
Concentration per Run 1	37.0889 ppm	2.4521 ppm	0.0171 ppm	1.5200 ppm	0.1780 ppm	1.8960 ppm	0.0089 ppm
Concentration per Run 2	36.7251 ppm	2.4727 ppm	0.0167 ppm	1.5355 ppm	0.1752 ppm	1.8999 ppm	0.0106 ppm
Concentration per Run 3	36.4516 ppm	2.4859 ppm	0.0170 ppm	1.5270 ppm	0.1741 ppm	1.8988 ppm	0.0074 ppm
Concentration RSD	0.9 %	0.7 %	1.0 %	0.5 %	1.2 %	0.1 %	18.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0053 ppm	3.0574 ppm	0.1118 ppm	0.3023 ppm	3.8153 ppm	0.0017 ppm	0.3441 ppm
Concentration per Run 1	0.0041 ppm	3.0803 ppm	0.1133 ppm	0.3033 ppm	3.8586 ppm	0.0018 ppm	0.3480 ppm
Concentration per Run 2	0.0060 ppm	3.0436 ppm	0.1110 ppm	0.3022 ppm	3.7993 ppm	0.0008 ppm	0.3436 ppm
Concentration per Run 3	0.0058 ppm	3.0482 ppm	0.1110 ppm	0.3014 ppm	3.7881 ppm	0.0024 ppm	0.3408 ppm
Concentration RSD	18.8 %	0.7 %	1.2 %	0.3 %	1.0 %	49.4 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.6196 ppm	95.3859 %	108.6249 %	86.5736 %	107.6269 %	126.1595 %	110.3623 %
Concentration per Run 1	1.6334 ppm	94.8958 %	110.4926 %	86.7273 %	107.5825 %	127.9986 %	110.5173 %
Concentration per Run 2	1.6218 ppm	94.9650 %	109.0768 %	86.4286 %	106.9616 %	127.0715 %	110.1667 %
Concentration per Run 3	1.6035 ppm	96.2969 %	106.3052 %	86.5649 %	108.3368 %	123.4083 %	110.4029 %
Concentration RSD	0.9 %	0.8 %	2.0 %	0.2 %	0.6 %	1.9 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-47d2 WG1975344
Analysis started at: 9/26/2024 1:57:45 PM
Rack 1
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	85.5101 ppm	0.0858 ppm	0.0696 ppm	0.3168 ppm	0.0035 ppm	42.1924 ppm
Concentration per Run 1	0.0008 ppm	85.3315 ppm	0.0854 ppm	0.0705 ppm	0.3145 ppm	0.0035 ppm	42.1914 ppm
Concentration per Run 2	0.0014 ppm	85.8196 ppm	0.0859 ppm	0.0698 ppm	0.3168 ppm	0.0035 ppm	42.2790 ppm
Concentration per Run 3	0.0008 ppm	85.3792 ppm	0.0862 ppm	0.0686 ppm	0.3191 ppm	0.0035 ppm	42.1069 ppm
Concentration RSD	33.4 %	0.3 %	0.5 %	1.3 %	0.7 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0438 ppm	0.1844 ppm	0.2761 ppm	181.8576 ppm	19.5234 ppm	0.2053 ppm
Concentration per Run 1	0.0011 ppm	0.0443 ppm	0.1840 ppm	0.2772 ppm	182.0560 ppm	19.5663 ppm	0.2062 ppm
Concentration per Run 2	0.0012 ppm	0.0437 ppm	0.1854 ppm	0.2761 ppm	182.2663 ppm	19.5946 ppm	0.2051 ppm
Concentration per Run 3	0.0011 ppm	0.0435 ppm	0.1840 ppm	0.2750 ppm	181.2505 ppm	19.4094 ppm	0.2045 ppm
Concentration RSD	4.1 %	0.9 %	0.4 %	0.4 %	0.3 %	0.5 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.6393 ppm	1.5316 ppm	0.0297 ppm	1.3110 ppm	0.1179 ppm	0.6461 ppm	0.0043 ppm
Concentration per Run 1	31.8118 ppm	1.5307 ppm	0.0295 ppm	1.3154 ppm	0.1181 ppm	0.6391 ppm	0.0050 ppm
Concentration per Run 2	31.5322 ppm	1.5352 ppm	0.0301 ppm	1.3141 ppm	0.1181 ppm	0.6509 ppm	0.0026 ppm
Concentration per Run 3	31.5739 ppm	1.5288 ppm	0.0295 ppm	1.3036 ppm	0.1174 ppm	0.6482 ppm	0.0052 ppm
Concentration RSD	0.5 %	0.2 %	1.2 %	0.5 %	0.4 %	1.0 %	33.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0039 ppm	3.6567 ppm	0.1338 ppm	0.2224 ppm	4.2576 ppm	0.0018 ppm	0.2897 ppm
Concentration per Run 1	0.0040 ppm	3.6662 ppm	0.1323 ppm	0.2223 ppm	4.2862 ppm	0.0021 ppm	0.2909 ppm
Concentration per Run 2	0.0044 ppm	3.6521 ppm	0.1354 ppm	0.2221 ppm	4.2437 ppm	0.0019 ppm	0.2896 ppm
Concentration per Run 3	0.0032 ppm	3.6518 ppm	0.1336 ppm	0.2228 ppm	4.2428 ppm	0.0014 ppm	0.2886 ppm
Concentration RSD	15.8 %	0.2 %	1.1 %	0.2 %	0.6 %	18.8 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5518 ppm	97.0176 %	109.0546 %	87.4416 %	106.6695 %	123.9800 %	108.5481 %
Concentration per Run 1	0.5535 ppm	96.5735 %	109.3654 %	88.1584 %	106.5460 %	124.2270 %	108.9781 %
Concentration per Run 2	0.5515 ppm	97.3462 %	108.0067 %	87.1565 %	106.6739 %	122.9691 %	108.2271 %
Concentration per Run 3	0.5504 ppm	97.1332 %	109.7916 %	87.0101 %	106.7887 %	124.7439 %	108.4391 %
Concentration RSD	0.3 %	0.4 %	0.9 %	0.7 %	0.1 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454056-01d2 WG1975344
Analysis started at: 9/26/2024 2:01:42 PM
Rack 1
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	73.5843 ppm	0.0782 ppm	0.0194 ppm	0.5128 ppm	0.0042 ppm	47.3335 ppm
Concentration per Run 1	0.0009 ppm	73.6496 ppm	0.0774 ppm	0.0194 ppm	0.5126 ppm	0.0041 ppm	47.1718 ppm
Concentration per Run 2	0.0001 ppm	73.4916 ppm	0.0786 ppm	0.0191 ppm	0.5112 ppm	0.0043 ppm	47.5699 ppm
Concentration per Run 3	0.0008 ppm	73.6117 ppm	0.0787 ppm	0.0198 ppm	0.5146 ppm	0.0042 ppm	47.2587 ppm
Concentration RSD	71.9 %	0.1 %	0.9 %	1.8 %	0.3 %	2.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.0645 ppm	0.1421 ppm	0.3623 ppm	155.9227 ppm	9.2401 ppm	0.1106 ppm
Concentration per Run 1	0.0019 ppm	0.0647 ppm	0.1441 ppm	0.3674 ppm	156.9659 ppm	9.3467 ppm	0.1104 ppm
Concentration per Run 2	0.0019 ppm	0.0644 ppm	0.1421 ppm	0.3612 ppm	154.0006 ppm	9.0844 ppm	0.1107 ppm
Concentration per Run 3	0.0019 ppm	0.0643 ppm	0.1401 ppm	0.3583 ppm	156.8017 ppm	9.2893 ppm	0.1106 ppm
Concentration RSD	0.2 %	0.3 %	1.4 %	1.3 %	1.1 %	1.5 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.9667 ppm	3.1124 ppm	0.0066 ppm	1.8535 ppm	0.1276 ppm	1.5913 ppm	0.0062 ppm
Concentration per Run 1	35.3108 ppm	3.1151 ppm	0.0067 ppm	1.8511 ppm	0.1295 ppm	1.5805 ppm	0.0074 ppm
Concentration per Run 2	34.9281 ppm	3.1094 ppm	0.0067 ppm	1.8521 ppm	0.1265 ppm	1.5970 ppm	0.0056 ppm
Concentration per Run 3	34.6611 ppm	3.1127 ppm	0.0063 ppm	1.8574 ppm	0.1267 ppm	1.5965 ppm	0.0055 ppm
Concentration RSD	0.9 %	0.1 %	3.4 %	0.2 %	1.3 %	0.6 %	17.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	3.3806 ppm	0.0785 ppm	0.1814 ppm	3.3817 ppm	0.0016 ppm	0.2809 ppm
Concentration per Run 1	0.0039 ppm	3.4294 ppm	0.0786 ppm	0.1803 ppm	3.4337 ppm	0.0025 ppm	0.2827 ppm
Concentration per Run 2	0.0022 ppm	3.3831 ppm	0.0786 ppm	0.1814 ppm	3.3625 ppm	0.0017 ppm	0.2818 ppm
Concentration per Run 3	0.0014 ppm	3.3294 ppm	0.0784 ppm	0.1825 ppm	3.3490 ppm	0.0005 ppm	0.2782 ppm
Concentration RSD	50.8 %	1.5 %	0.2 %	0.6 %	1.3 %	62.1 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9962 ppm	94.9679 %	102.8390 %	87.6018 %	106.1997 %	120.8473 %	110.6610 %
Concentration per Run 1	1.0086 ppm	94.4577 %	103.5690 %	88.1504 %	106.4257 %	121.1850 %	111.0743 %
Concentration per Run 2	0.9934 ppm	94.8243 %	101.2237 %	87.2391 %	105.6901 %	119.1706 %	110.2042 %
Concentration per Run 3	0.9867 ppm	95.6218 %	103.7244 %	87.4158 %	106.4835 %	122.1865 %	110.7045 %
Concentration RSD	1.1 %	0.6 %	1.4 %	0.6 %	0.4 %	1.3 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454077-01d2 WG1975344
Analysis started at: 9/26/2024 2:05:40 PM
Rack 1
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	44.5481 ppm	0.0226 ppm	0.0067 ppm	0.1749 ppm	0.0018 ppm	7.3592 ppm
Concentration per Run 1	-0.0004 ppm	44.4758 ppm	0.0223 ppm	0.0059 ppm	0.1747 ppm	0.0019 ppm	7.3578 ppm
Concentration per Run 2	-0.0001 ppm	44.6490 ppm	0.0226 ppm	0.0062 ppm	0.1747 ppm	0.0019 ppm	7.3533 ppm
Concentration per Run 3	-0.0002 ppm	44.5194 ppm	0.0229 ppm	0.0081 ppm	0.1752 ppm	0.0018 ppm	7.3665 ppm
Concentration RSD	79.2 %	0.2 %	1.3 %	17.6 %	0.2 %	2.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0261 ppm	0.0796 ppm	0.0888 ppm	63.2924 ppm	5.7236 ppm	0.1478 ppm
Concentration per Run 1	0.0014 ppm	0.0260 ppm	0.0793 ppm	0.0891 ppm	63.1492 ppm	5.7361 ppm	0.1492 ppm
Concentration per Run 2	0.0014 ppm	0.0262 ppm	0.0798 ppm	0.0889 ppm	63.3157 ppm	5.7066 ppm	0.1488 ppm
Concentration per Run 3	0.0015 ppm	0.0262 ppm	0.0797 ppm	0.0883 ppm	63.4124 ppm	5.7280 ppm	0.1452 ppm
Concentration RSD	3.8 %	0.4 %	0.4 %	0.5 %	0.2 %	0.3 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.6912 ppm	0.6423 ppm	0.0053 ppm	1.3028 ppm	0.0980 ppm	0.0271 ppm	0.0000 ppm
Concentration per Run 1	17.7573 ppm	0.6416 ppm	0.0055 ppm	1.3061 ppm	0.0979 ppm	0.0264 ppm	0.0000 ppm
Concentration per Run 2	17.6724 ppm	0.6411 ppm	0.0052 ppm	1.3041 ppm	0.0985 ppm	0.0274 ppm	-0.0001 ppm
Concentration per Run 3	17.6439 ppm	0.6443 ppm	0.0052 ppm	1.2982 ppm	0.0978 ppm	0.0276 ppm	0.0000 ppm
Concentration RSD	0.3 %	0.3 %	3.1 %	0.3 %	0.4 %	2.5 %	207.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	4.4590 ppm	0.0022 ppm	0.0391 ppm	2.6635 ppm	0.0004 ppm	0.1123 ppm
Concentration per Run 1	0.0018 ppm	4.4525 ppm	0.0024 ppm	0.0391 ppm	2.6663 ppm	-0.0004 ppm	0.1123 ppm
Concentration per Run 2	0.0031 ppm	4.4595 ppm	0.0021 ppm	0.0389 ppm	2.6659 ppm	0.0005 ppm	0.1127 ppm
Concentration per Run 3	0.0004 ppm	4.4650 ppm	0.0022 ppm	0.0391 ppm	2.6582 ppm	0.0010 ppm	0.1120 ppm
Concentration RSD	74.7 %	0.1 %	5.3 %	0.3 %	0.2 %	186.4 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2845 ppm	95.5660 %	105.6451 %	91.0775 %	96.6506 %	110.6882 %	100.6425 %
Concentration per Run 1	0.2850 ppm	95.3793 %	106.1927 %	91.3105 %	96.8098 %	111.4399 %	101.0261 %
Concentration per Run 2	0.2843 ppm	95.9155 %	105.6204 %	91.1190 %	97.0018 %	110.4392 %	100.3490 %
Concentration per Run 3	0.2841 ppm	95.4030 %	105.1222 %	90.8030 %	96.1401 %	110.1853 %	100.5523 %
Concentration RSD	0.2 %	0.3 %	0.5 %	0.3 %	0.5 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-01D2 WG1975335
Analysis started at: 9/26/2024 2:09:38 PM
Rack 2
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	46.3973 ppm	0.0450 ppm	0.0037 ppm	0.2092 ppm	0.0029 ppm	9.2176 ppm
Concentration per Run 1	0.0000 ppm	45.8610 ppm	0.0441 ppm	0.0040 ppm	0.2056 ppm	0.0030 ppm	9.3032 ppm
Concentration per Run 2	0.0008 ppm	46.9498 ppm	0.0461 ppm	0.0037 ppm	0.2114 ppm	0.0028 ppm	9.2338 ppm
Concentration per Run 3	0.0001 ppm	46.3810 ppm	0.0448 ppm	0.0033 ppm	0.2106 ppm	0.0027 ppm	9.1158 ppm
Concentration RSD	132.7 %	1.2 %	2.3 %	9.0 %	1.5 %	6.1 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0037 ppm	0.0362 ppm	0.1221 ppm	0.1163 ppm	104.3563 ppm	5.2963 ppm	0.0698 ppm
Concentration per Run 1	0.0037 ppm	0.0361 ppm	0.1233 ppm	0.1158 ppm	102.1219 ppm	5.0739 ppm	0.0695 ppm
Concentration per Run 2	0.0039 ppm	0.0366 ppm	0.1220 ppm	0.1175 ppm	105.7921 ppm	5.4423 ppm	0.0701 ppm
Concentration per Run 3	0.0036 ppm	0.0360 ppm	0.1209 ppm	0.1155 ppm	105.1551 ppm	5.3726 ppm	0.0697 ppm
Concentration RSD	3.4 %	0.9 %	1.0 %	0.9 %	1.9 %	3.7 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.4873 ppm	1.8493 ppm	0.0204 ppm	0.6007 ppm	0.0785 ppm	0.3594 ppm	0.0017 ppm
Concentration per Run 1	18.6072 ppm	1.8420 ppm	0.0202 ppm	0.5873 ppm	0.0775 ppm	0.3595 ppm	0.0031 ppm
Concentration per Run 2	18.4647 ppm	1.8634 ppm	0.0207 ppm	0.6096 ppm	0.0798 ppm	0.3618 ppm	0.0013 ppm
Concentration per Run 3	18.3900 ppm	1.8425 ppm	0.0201 ppm	0.6053 ppm	0.0782 ppm	0.3568 ppm	0.0008 ppm
Concentration RSD	0.6 %	0.7 %	1.7 %	2.0 %	1.5 %	0.7 %	69.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	2.2850 ppm	0.0099 ppm	0.0872 ppm	2.4517 ppm	0.0015 ppm	0.1402 ppm
Concentration per Run 1	-0.0008 ppm	2.3028 ppm	0.0104 ppm	0.0891 ppm	2.4640 ppm	0.0011 ppm	0.1410 ppm
Concentration per Run 2	0.0021 ppm	2.3014 ppm	0.0101 ppm	0.0864 ppm	2.4618 ppm	0.0016 ppm	0.1392 ppm
Concentration per Run 3	0.0005 ppm	2.2509 ppm	0.0092 ppm	0.0860 ppm	2.4293 ppm	0.0017 ppm	0.1403 ppm
Concentration RSD	241.7 %	1.3 %	6.3 %	2.0 %	0.8 %	22.1 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3956 ppm	95.2278 %	103.7567 %	90.0876 %	**184.2111 %**	**206.9822 %**	**190.4696 %**
Concentration per Run 1	0.3949 ppm	94.3107 %	101.5670 %	90.3412 %	**182.5156 %**	**204.2697 %**	**190.8536 %**
Concentration per Run 2	0.4022 ppm	95.7608 %	104.1025 %	89.9162 %	**186.7109 %**	**207.2999 %**	**190.5025 %**
Concentration per Run 3	0.3897 ppm	95.6119 %	105.6005 %	90.0053 %	**183.4068 %**	**209.3769 %**	**190.0526 %**
Concentration RSD	1.6 %	0.8 %	2.0 %	0.2 %	**1.2 %**	**1.2 %**	**0.2 %**

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-03D2 WG1975335
Analysis started at: 9/26/2024 2:13:34 PM
Rack 2
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	51.1743 ppm	0.0514 ppm	0.0061 ppm	0.1751 ppm	0.0028 ppm	9.4655 ppm
Concentration per Run 1	0.0001 ppm	51.6850 ppm	0.0508 ppm	0.0065 ppm	0.1779 ppm	0.0026 ppm	9.4305 ppm
Concentration per Run 2	-0.0001 ppm	50.5917 ppm	0.0517 ppm	0.0053 ppm	0.1711 ppm	0.0030 ppm	9.6160 ppm
Concentration per Run 3	0.0001 ppm	51.2464 ppm	0.0518 ppm	0.0064 ppm	0.1763 ppm	0.0027 ppm	9.3499 ppm
Concentration RSD	527.8 %	1.1 %	1.1 %	11.0 %	2.0 %	6.8 %	1.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0084 ppm	0.0405 ppm	0.1084 ppm	0.1658 ppm	105.2213 ppm	6.8805 ppm	0.0903 ppm
Concentration per Run 1	0.0084 ppm	0.0409 ppm	0.1100 ppm	0.1679 ppm	106.7439 ppm	7.1175 ppm	0.0944 ppm
Concentration per Run 2	0.0084 ppm	0.0401 ppm	0.1084 ppm	0.1647 ppm	103.0884 ppm	6.4873 ppm	0.0841 ppm
Concentration per Run 3	0.0083 ppm	0.0403 ppm	0.1067 ppm	0.1649 ppm	105.8315 ppm	7.0368 ppm	0.0924 ppm
Concentration RSD	0.9 %	1.0 %	1.5 %	1.1 %	1.8 %	5.0 %	6.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.0617 ppm	1.6688 ppm	0.0042 ppm	0.5923 ppm	0.0782 ppm	0.4822 ppm	0.0169 ppm
Concentration per Run 1	22.3907 ppm	1.6709 ppm	0.0045 ppm	0.6004 ppm	0.0803 ppm	0.4852 ppm	0.0164 ppm
Concentration per Run 2	22.0313 ppm	1.6685 ppm	0.0038 ppm	0.5787 ppm	0.0774 ppm	0.4829 ppm	0.0159 ppm
Concentration per Run 3	21.7631 ppm	1.6669 ppm	0.0045 ppm	0.5979 ppm	0.0771 ppm	0.4785 ppm	0.0183 ppm
Concentration RSD	1.4 %	0.1 %	9.0 %	2.0 %	2.3 %	0.7 %	7.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	3.2320 ppm	0.0249 ppm	0.0570 ppm	2.5989 ppm	0.0002 ppm	0.1382 ppm
Concentration per Run 1	0.0016 ppm	3.2697 ppm	0.0251 ppm	0.0566 ppm	2.6448 ppm	-0.0001 ppm	0.1402 ppm
Concentration per Run 2	0.0017 ppm	3.2256 ppm	0.0253 ppm	0.0580 ppm	2.5865 ppm	0.0004 ppm	0.1389 ppm
Concentration per Run 3	0.0027 ppm	3.2008 ppm	0.0243 ppm	0.0564 ppm	2.5655 ppm	0.0005 ppm	0.1355 ppm
Concentration RSD	30.5 %	1.1 %	2.1 %	1.5 %	1.6 %	132.7 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3860 ppm	95.4788 %	104.9091 %	90.6270 %	106.5503 %	120.9155 %	110.8067 %
Concentration per Run 1	0.3922 ppm	94.6956 %	107.4854 %	90.6132 %	105.6623 %	123.0706 %	110.8490 %
Concentration per Run 2	0.3853 ppm	95.3282 %	101.1413 %	90.5122 %	106.4437 %	117.5584 %	110.6340 %
Concentration per Run 3	0.3804 ppm	96.4125 %	106.1005 %	90.7555 %	107.5447 %	122.1176 %	110.9371 %
Concentration RSD	1.5 %	0.9 %	3.2 %	0.1 %	0.9 %	2.4 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 2:17:30 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5098 ppm	0.4918 ppm	0.4923 ppm	0.5004 ppm	0.5104 ppm	0.5207 ppm	0.5024 ppm
Concentration per Run 1	0.5145 ppm	0.4935 ppm	0.4902 ppm	0.5044 ppm	0.5119 ppm	0.5221 ppm	0.5011 ppm
Concentration per Run 2	0.5093 ppm	0.4891 ppm	0.4942 ppm	0.5017 ppm	0.5105 ppm	0.5185 ppm	0.5028 ppm
Concentration per Run 3	0.5056 ppm	0.4928 ppm	0.4923 ppm	0.4951 ppm	0.5090 ppm	0.5214 ppm	0.5034 ppm
Recovery Percentage 1	101.963 %	98.355 %	98.451 %	100.082 %	102.089 %	104.140 %	100.486 %
Concentration RSD	0.9 %	0.5 %	0.4 %	1.0 %	0.3 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5124 ppm	0.5159 ppm	0.5035 ppm	0.4982 ppm	0.5299 ppm	5.4021 ppm	0.5077 ppm
Concentration per Run 1	0.5186 ppm	0.5220 ppm	0.5093 ppm	0.5034 ppm	0.5281 ppm	5.4601 ppm	0.5105 ppm
Concentration per Run 2	0.5114 ppm	0.5148 ppm	0.5013 ppm	0.4977 ppm	0.5298 ppm	5.3541 ppm	0.5049 ppm
Concentration per Run 3	0.5070 ppm	0.5109 ppm	0.4999 ppm	0.4935 ppm	0.5319 ppm	5.3922 ppm	0.5077 ppm
Recovery Percentage 1	102.473 %	103.184 %	100.692 %	99.642 %	105.986 %	108.042 %	101.547 %
Concentration RSD	1.1 %	1.1 %	1.0 %	1.0 %	0.4 %	1.0 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4984 ppm	0.5069 ppm	0.5105 ppm	10.3101 ppm	0.5153 ppm	0.5041 ppm	0.5062 ppm
Concentration per Run 1	0.5042 ppm	0.5065 ppm	0.5129 ppm	10.3072 ppm	0.5205 ppm	0.5056 ppm	0.5096 ppm
Concentration per Run 2	0.4979 ppm	0.5054 ppm	0.5097 ppm	10.2889 ppm	0.5131 ppm	0.5046 ppm	0.5049 ppm
Concentration per Run 3	0.4931 ppm	0.5089 ppm	0.5089 ppm	10.3341 ppm	0.5123 ppm	0.5021 ppm	0.5040 ppm
Recovery Percentage 1	99.681 %	101.387 %	102.100 %	103.101 %	103.058 %	100.829 %	101.236 %
Concentration RSD	1.1 %	0.4 %	0.4 %	0.2 %	0.9 %	0.4 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5017 ppm	5.6628 ppm	0.4897 ppm	0.4915 ppm	0.5106 ppm	0.5016 ppm	0.5050 ppm
Concentration per Run 1	0.5024 ppm	5.7072 ppm	0.4986 ppm	0.4936 ppm	0.5135 ppm	0.5025 ppm	0.5097 ppm
Concentration per Run 2	0.5035 ppm	5.6558 ppm	0.4855 ppm	0.4904 ppm	0.5114 ppm	0.5009 ppm	0.5048 ppm
Concentration per Run 3	0.4991 ppm	5.6255 ppm	0.4849 ppm	0.4904 ppm	0.5068 ppm	0.5012 ppm	0.5006 ppm
Recovery Percentage 1	100.332 %	107.863 %	97.933 %	98.292 %	102.112 %	100.311 %	101.005 %
Concentration RSD	0.4 %	0.7 %	1.6 %	0.4 %	0.7 %	0.2 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5118 ppm	94.4153 %	102.1513 %	93.1540 %	91.2991 %	100.8603 %	93.4135 %
Concentration per Run 1	0.5163 ppm	93.0027 %	103.2207 %	93.1154 %	89.8900 %	101.7977 %	93.2858 %
Concentration per Run 2	0.5114 ppm	94.7781 %	102.3893 %	93.1748 %	91.8801 %	101.0735 %	93.4565 %
Concentration per Run 3	0.5078 ppm	95.4650 %	100.8440 %	93.1717 %	92.1273 %	99.7098 %	93.4983 %
Recovery Percentage 1	102.365 %						
Concentration RSD	0.8 %	1.3 %	1.2 %	0.0 %	1.3 %	1.1 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 2:21:26 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0025 ppm	0.0006 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 1	-0.0002 ppm	-0.0070 ppm	0.0025 ppm	0.0016 ppm	-0.0001 ppm	0.0001 ppm	0.0053 ppm
Concentration per Run 2	0.0000 ppm	0.0045 ppm	-0.0015 ppm	0.0014 ppm	-0.0001 ppm	0.0000 ppm	0.0048 ppm
Concentration per Run 3	0.0000 ppm	-0.0049 ppm	0.0007 ppm	0.0019 ppm	0.0001 ppm	0.0000 ppm	0.0076 ppm
Recovery Percentage 1	-1.351 %	-2.485 %	19.573 %	5.335 %	-0.463 %	0.336 %	5.888 %
Concentration RSD	142.2 %	245.7 %	341.8 %	15.8 %	209.0 %	384.6 %	25.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0014 ppm	0.0045 ppm	0.0086 ppm	-0.0006 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0014 ppm	0.0042 ppm	0.0078 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0012 ppm	0.0045 ppm	0.0375 ppm	-0.0005 ppm
Concentration per Run 3	0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0016 ppm	0.0046 ppm	-0.0195 ppm	-0.0015 ppm
Recovery Percentage 1	2.785 %	0.201 %	1.484 %	13.857 %	8.910 %	0.344 %	-6.361 %
Concentration RSD	67.5 %	678.9 %	55.3 %	15.7 %	4.9 %	332.0 %	123.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0013 ppm	0.0000 ppm	0.0017 ppm	0.0043 ppm	0.0003 ppm	-0.0007 ppm	-0.0012 ppm
Concentration per Run 1	0.0011 ppm	0.0000 ppm	0.0015 ppm	0.0018 ppm	0.0007 ppm	-0.0003 ppm	-0.0017 ppm
Concentration per Run 2	0.0011 ppm	0.0001 ppm	0.0017 ppm	0.0028 ppm	-0.0004 ppm	-0.0011 ppm	0.0014 ppm
Concentration per Run 3	0.0018 ppm	-0.0001 ppm	0.0018 ppm	0.0082 ppm	0.0007 ppm	-0.0007 ppm	-0.0033 ppm
Recovery Percentage 1	1.337 %	0.104 %	3.354 %	0.213 %	1.253 %	-6.814 %	-2.400 %
Concentration RSD	32.5 %	819.5 %	9.8 %	80.8 %	206.6 %	60.5 %	196.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	0.0014 ppm	-0.0004 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 1	0.0035 ppm	0.0017 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 2	0.0025 ppm	0.0019 ppm	-0.0003 ppm	-0.0001 ppm	0.0002 ppm	-0.0014 ppm	0.0002 ppm
Concentration per Run 3	0.0004 ppm	0.0008 ppm	-0.0009 ppm	-0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0001 ppm
Recovery Percentage 1	21.209 %	0.288 %	-0.731 %	-0.485 %	2.680 %	-1.668 %	1.677 %
Concentration RSD	75.6 %	41.7 %	134.2 %	50.1 %	40.9 %	326.6 %	44.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	92.0374 %	100.2922 %	93.2477 %	92.5910 %	100.7210 %	94.6676 %
Concentration per Run 1	0.0006 ppm	90.5033 %	100.6481 %	93.3151 %	91.5585 %	101.3274 %	94.7476 %
Concentration per Run 2	0.0004 ppm	91.9374 %	99.9739 %	93.3765 %	91.8829 %	100.3659 %	95.0039 %
Concentration per Run 3	0.0007 ppm	93.6714 %	100.2546 %	93.0515 %	94.3315 %	100.4696 %	94.2514 %
Recovery Percentage 1	10.716 %						
Concentration RSD	31.7 %	1.7 %	0.3 %	0.2 %	1.6 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1975335-1 WG1975335
Analysis started at: 9/26/2024 2:26:25 PM
Rack 2
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0124 ppm	0.0010 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0165 ppm
Concentration per Run 1	0.0000 ppm	0.0122 ppm	0.0008 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0154 ppm
Concentration per Run 2	-0.0002 ppm	0.0147 ppm	0.0004 ppm	0.0011 ppm	0.0002 ppm	0.0000 ppm	0.0159 ppm
Concentration per Run 3	0.0000 ppm	0.0102 ppm	0.0017 ppm	0.0012 ppm	-0.0001 ppm	0.0000 ppm	0.0181 ppm
Recovery Percentage 1	-1.279 %	12.386 %	32.297 %	3.027 %	0.932 %	0.491 %	16.454 %
Concentration RSD	126.4 %	18.4 %	72.2 %	41.7 %	154.1 %	132.9 %	8.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0004 ppm	0.0003 ppm	0.0263 ppm	0.0102 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	-0.0008 ppm	0.0006 ppm	0.0003 ppm	0.0273 ppm	0.0090 ppm	0.0013 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0005 ppm	0.0002 ppm	0.0266 ppm	-0.0061 ppm	-0.0009 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0248 ppm	0.0277 ppm	0.0009 ppm
Recovery Percentage 1	0.039 %	-2.232 %	4.140 %	3.365 %	52.507 %	0.408 %	4.393 %
Concentration RSD	2,075.4 %	79.2 %	46.6 %	42.6 %	4.8 %	165.8 %	263.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0063 ppm	0.0005 ppm	0.0001 ppm	0.0137 ppm	0.0002 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 1	0.0060 ppm	0.0006 ppm	0.0001 ppm	0.0164 ppm	0.0001 ppm	-0.0007 ppm	0.0025 ppm
Concentration per Run 2	0.0066 ppm	0.0004 ppm	0.0001 ppm	0.0106 ppm	0.0002 ppm	-0.0012 ppm	-0.0017 ppm
Concentration per Run 3	0.0063 ppm	0.0006 ppm	0.0002 ppm	0.0140 ppm	0.0002 ppm	-0.0002 ppm	-0.0004 ppm
Recovery Percentage 1	6.309 %	5.124 %	0.230 %	0.683 %	0.642 %	-6.905 %	0.271 %
Concentration RSD	4.5 %	18.4 %	66.4 %	21.4 %	30.9 %	67.9 %	1,554.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	0.0117 ppm	0.0006 ppm	0.0000 ppm	0.0010 ppm	-0.0012 ppm	0.0001 ppm
Concentration per Run 1	0.0015 ppm	0.0116 ppm	0.0005 ppm	0.0000 ppm	0.0010 ppm	-0.0009 ppm	0.0003 ppm
Concentration per Run 2	0.0020 ppm	0.0115 ppm	0.0002 ppm	0.0000 ppm	0.0011 ppm	-0.0010 ppm	0.0002 ppm
Concentration per Run 3	0.0033 ppm	0.0120 ppm	0.0012 ppm	-0.0001 ppm	0.0010 ppm	-0.0018 ppm	0.0000 ppm
Recovery Percentage 1	22.893 %	2.336 %	1.255 %	-0.272 %	10.144 %	-6.179 %	1.312 %
Concentration RSD	39.3 %	2.3 %	82.7 %	167.2 %	4.8 %	37.3 %	118.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0019 ppm	103.0003 %	101.9664 %	97.7153 %	101.7186 %	101.3510 %	99.3929 %
Concentration per Run 1	0.0019 ppm	102.8361 %	101.0456 %	97.2393 %	101.5058 %	100.4340 %	98.7468 %
Concentration per Run 2	0.0019 ppm	102.8624 %	101.7075 %	97.6940 %	102.0019 %	101.0161 %	99.4200 %
Concentration per Run 3	0.0019 ppm	103.3023 %	103.1462 %	98.2126 %	101.6481 %	102.6029 %	100.0120 %
Recovery Percentage 1	38.123 %						
Concentration RSD	1.5 %	0.3 %	1.1 %	0.5 %	0.3 %	1.1 %	0.6 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1975335-2D2 WG1975335
Analysis started at: 9/26/2024 2:30:31 PM
Rack 2
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3665 ppm	17.9768 ppm	1.3548 ppm	1.0392 ppm	1.2123 ppm	0.7222 ppm	21.1523 ppm
Concentration per Run 1	0.3707 ppm	18.2481 ppm	1.3619 ppm	1.0528 ppm	1.2242 ppm	0.7291 ppm	21.3579 ppm
Concentration per Run 2	0.3669 ppm	18.0822 ppm	1.3623 ppm	1.0360 ppm	1.2164 ppm	0.7224 ppm	21.1928 ppm
Concentration per Run 3	0.3620 ppm	17.6001 ppm	1.3402 ppm	1.0289 ppm	1.1965 ppm	0.7150 ppm	20.9063 ppm
Concentration RSD	1.2 %	1.9 %	0.9 %	1.2 %	1.2 %	1.0 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.9661 ppm	0.3612 ppm	0.7983 ppm	0.9121 ppm	23.8514 ppm	4.4715 ppm	0.5541 ppm
Concentration per Run 1	0.9771 ppm	0.3651 ppm	0.8058 ppm	0.9239 ppm	24.1097 ppm	4.5366 ppm	0.5616 ppm
Concentration per Run 2	0.9670 ppm	0.3629 ppm	0.8005 ppm	0.9125 ppm	23.9213 ppm	4.4497 ppm	0.5559 ppm
Concentration per Run 3	0.9542 ppm	0.3557 ppm	0.7887 ppm	0.9000 ppm	23.5232 ppm	4.4281 ppm	0.5450 ppm
Concentration RSD	1.2 %	1.4 %	1.1 %	1.3 %	1.3 %	1.3 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.1612 ppm	2.2350 ppm	0.6041 ppm	7.6178 ppm	1.4003 ppm	0.4008 ppm	0.8783 ppm
Concentration per Run 1	6.2239 ppm	2.2613 ppm	0.6087 ppm	7.7127 ppm	1.4105 ppm	0.4038 ppm	0.8909 ppm
Concentration per Run 2	6.1718 ppm	2.2447 ppm	0.6037 ppm	7.6777 ppm	1.4053 ppm	0.4029 ppm	0.8730 ppm
Concentration per Run 3	6.0878 ppm	2.1992 ppm	0.5998 ppm	7.4630 ppm	1.3851 ppm	0.3955 ppm	0.8709 ppm
Concentration RSD	1.1 %	1.4 %	0.7 %	1.8 %	1.0 %	1.1 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.7406 ppm	6.8244 ppm	0.3224 ppm	0.5475 ppm	1.2622 ppm	0.9493 ppm	0.4530 ppm
Concentration per Run 1	0.7466 ppm	6.9004 ppm	0.3250 ppm	0.5517 ppm	1.2757 ppm	0.9517 ppm	0.4588 ppm
Concentration per Run 2	0.7447 ppm	6.8418 ppm	0.3248 ppm	0.5488 ppm	1.2675 ppm	0.9573 ppm	0.4531 ppm
Concentration per Run 3	0.7305 ppm	6.7310 ppm	0.3175 ppm	0.5421 ppm	1.2434 ppm	0.9390 ppm	0.4470 ppm
Concentration RSD	1.2 %	1.3 %	1.3 %	0.9 %	1.3 %	1.0 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7239 ppm	94.1494 %	103.3661 %	91.0772 %	97.3691 %	108.0344 %	99.0259 %
Concentration per Run 1	0.7296 ppm	93.2379 %	103.4433 %	91.0477 %	96.6296 %	108.4273 %	98.9358 %
Concentration per Run 2	0.7247 ppm	93.7870 %	103.4968 %	91.0129 %	96.9708 %	108.0764 %	98.9535 %
Concentration per Run 3	0.7174 ppm	95.4232 %	103.1583 %	91.1710 %	98.5068 %	107.5997 %	99.1883 %
Concentration RSD	0.8 %	1.2 %	0.2 %	0.1 %	1.0 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1975335-3D2 WG1975335
Analysis started at: 9/26/2024 2:34:27 PM
Rack 2
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3476 ppm	19.1627 ppm	1.2830 ppm	0.9952 ppm	1.2409 ppm	0.6970 ppm	20.2425 ppm
Concentration per Run 1	0.3521 ppm	19.1924 ppm	1.2828 ppm	1.0041 ppm	1.2475 ppm	0.6973 ppm	20.2953 ppm
Concentration per Run 2	0.3473 ppm	19.2326 ppm	1.2904 ppm	0.9944 ppm	1.2367 ppm	0.6974 ppm	20.2758 ppm
Concentration per Run 3	0.3435 ppm	19.0632 ppm	1.2757 ppm	0.9870 ppm	1.2384 ppm	0.6965 ppm	20.1564 ppm
Concentration RSD	1.2 %	0.5 %	0.6 %	0.9 %	0.5 %	0.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8970 ppm	0.3417 ppm	0.7389 ppm	0.8591 ppm	24.4629 ppm	4.5249 ppm	0.5348 ppm
Concentration per Run 1	0.9075 ppm	0.3451 ppm	0.7490 ppm	0.8684 ppm	24.5754 ppm	4.5342 ppm	0.5373 ppm
Concentration per Run 2	0.8972 ppm	0.3412 ppm	0.7378 ppm	0.8586 ppm	24.4233 ppm	4.5587 ppm	0.5363 ppm
Concentration per Run 3	0.8862 ppm	0.3387 ppm	0.7299 ppm	0.8503 ppm	24.3899 ppm	4.4819 ppm	0.5307 ppm
Concentration RSD	1.2 %	1.0 %	1.3 %	1.1 %	0.4 %	0.9 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.1112 ppm	2.2043 ppm	0.5717 ppm	7.4464 ppm	1.3163 ppm	0.3883 ppm	0.8656 ppm
Concentration per Run 1	6.2003 ppm	2.2094 ppm	0.5738 ppm	7.4439 ppm	1.3304 ppm	0.3890 ppm	0.8758 ppm
Concentration per Run 2	6.1058 ppm	2.2048 ppm	0.5698 ppm	7.4768 ppm	1.3171 ppm	0.3888 ppm	0.8635 ppm
Concentration per Run 3	6.0274 ppm	2.1986 ppm	0.5714 ppm	7.4183 ppm	1.3013 ppm	0.3869 ppm	0.8574 ppm
Concentration RSD	1.4 %	0.2 %	0.4 %	0.4 %	1.1 %	0.3 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6967 ppm	3.4769 ppm	0.3071 ppm	0.5409 ppm	1.2265 ppm	0.8681 ppm	0.4240 ppm
Concentration per Run 1	0.6968 ppm	3.5155 ppm	0.3099 ppm	0.5418 ppm	1.2427 ppm	0.8645 ppm	0.4290 ppm
Concentration per Run 2	0.6987 ppm	3.4671 ppm	0.3060 ppm	0.5408 ppm	1.2263 ppm	0.8747 ppm	0.4237 ppm
Concentration per Run 3	0.6947 ppm	3.4482 ppm	0.3054 ppm	0.5403 ppm	1.2106 ppm	0.8651 ppm	0.4192 ppm
Concentration RSD	0.3 %	1.0 %	0.8 %	0.1 %	1.3 %	0.7 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6909 ppm	94.2644 %	102.4091 %	91.1698 %	97.5983 %	106.9710 %	99.0289 %
Concentration per Run 1	0.6980 ppm	93.2092 %	102.3815 %	91.0877 %	96.6766 %	107.1872 %	99.3001 %
Concentration per Run 2	0.6910 ppm	94.3341 %	102.0925 %	90.7883 %	97.6735 %	106.6441 %	98.6022 %
Concentration per Run 3	0.6837 ppm	95.2498 %	102.7533 %	91.6336 %	98.4448 %	107.0817 %	99.1843 %
Concentration RSD	1.0 %	1.1 %	0.3 %	0.5 %	0.9 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-05D2 WG1975335
Analysis started at: 9/26/2024 2:38:22 PM
Rack 2
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	39.4333 ppm	0.0400 ppm	0.0058 ppm	0.1531 ppm	0.0022 ppm	4.9642 ppm
Concentration per Run 1	-0.0001 ppm	39.5763 ppm	0.0402 ppm	0.0060 ppm	0.1542 ppm	0.0022 ppm	5.0056 ppm
Concentration per Run 2	0.0000 ppm	39.6494 ppm	0.0391 ppm	0.0050 ppm	0.1535 ppm	0.0022 ppm	4.9761 ppm
Concentration per Run 3	0.0001 ppm	39.0741 ppm	0.0406 ppm	0.0063 ppm	0.1516 ppm	0.0022 ppm	4.9109 ppm
Concentration RSD	21,579.4 %	0.8 %	1.9 %	11.8 %	0.9 %	1.8 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0950 ppm	0.0296 ppm	0.1007 ppm	0.1290 ppm	87.4149 ppm	3.3930 ppm	0.0570 ppm
Concentration per Run 1	0.0963 ppm	0.0300 ppm	0.1011 ppm	0.1306 ppm	87.6646 ppm	3.4332 ppm	0.0580 ppm
Concentration per Run 2	0.0950 ppm	0.0295 ppm	0.1011 ppm	0.1292 ppm	87.6477 ppm	3.3918 ppm	0.0567 ppm
Concentration per Run 3	0.0936 ppm	0.0293 ppm	0.1000 ppm	0.1271 ppm	86.9326 ppm	3.3538 ppm	0.0562 ppm
Concentration RSD	1.4 %	1.2 %	0.7 %	1.4 %	0.5 %	1.2 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.6343 ppm	1.1440 ppm	0.0069 ppm	0.3330 ppm	0.0526 ppm	0.2738 ppm	0.0108 ppm
Concentration per Run 1	14.8176 ppm	1.1471 ppm	0.0073 ppm	0.3383 ppm	0.0528 ppm	0.2764 ppm	0.0120 ppm
Concentration per Run 2	14.6787 ppm	1.1512 ppm	0.0066 ppm	0.3349 ppm	0.0523 ppm	0.2737 ppm	0.0095 ppm
Concentration per Run 3	14.4067 ppm	1.1335 ppm	0.0069 ppm	0.3257 ppm	0.0526 ppm	0.2713 ppm	0.0109 ppm
Concentration RSD	1.4 %	0.8 %	4.9 %	2.0 %	0.5 %	0.9 %	11.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0015 ppm	2.9711 ppm	0.0166 ppm	0.0466 ppm	1.8470 ppm	0.0007 ppm	0.0944 ppm
Concentration per Run 1	0.0007 ppm	3.0182 ppm	0.0170 ppm	0.0471 ppm	1.8618 ppm	0.0001 ppm	0.0949 ppm
Concentration per Run 2	0.0009 ppm	2.9688 ppm	0.0169 ppm	0.0466 ppm	1.8541 ppm	0.0012 ppm	0.0947 ppm
Concentration per Run 3	0.0029 ppm	2.9263 ppm	0.0158 ppm	0.0461 ppm	1.8250 ppm	0.0006 ppm	0.0934 ppm
Concentration RSD	82.3 %	1.5 %	4.2 %	1.0 %	1.1 %	88.8 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4322 ppm	94.8118 %	105.5522 %	91.1133 %	106.5255 %	121.4099 %	110.9236 %
Concentration per Run 1	0.4358 ppm	93.8645 %	105.4688 %	91.0542 %	105.5648 %	121.7363 %	110.5746 %
Concentration per Run 2	0.4348 ppm	94.7010 %	104.8670 %	91.7925 %	106.4532 %	120.5315 %	111.5668 %
Concentration per Run 3	0.4260 ppm	95.8698 %	106.3207 %	90.4932 %	107.5583 %	121.9620 %	110.6293 %
Concentration RSD	1.2 %	1.1 %	0.7 %	0.7 %	0.9 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-07D2 WG1975335
Analysis started at: 9/26/2024 2:42:19 PM
Rack 2
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	24.9329 ppm	0.0240 ppm	0.0032 ppm	0.0877 ppm	0.0016 ppm	4.7366 ppm
Concentration per Run 1	-0.0003 ppm	24.6893 ppm	0.0220 ppm	0.0038 ppm	0.0868 ppm	0.0017 ppm	4.7905 ppm
Concentration per Run 2	-0.0003 ppm	25.2091 ppm	0.0256 ppm	0.0031 ppm	0.0886 ppm	0.0016 ppm	4.7366 ppm
Concentration per Run 3	-0.0002 ppm	24.9004 ppm	0.0245 ppm	0.0028 ppm	0.0877 ppm	0.0016 ppm	4.6826 ppm
Concentration RSD	28.7 %	1.0 %	7.7 %	17.0 %	1.0 %	3.8 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0024 ppm	0.0172 ppm	0.0612 ppm	0.0372 ppm	50.9364 ppm	2.5891 ppm	0.0435 ppm
Concentration per Run 1	0.0024 ppm	0.0174 ppm	0.0621 ppm	0.0382 ppm	50.4086 ppm	2.5328 ppm	0.0425 ppm
Concentration per Run 2	0.0024 ppm	0.0172 ppm	0.0608 ppm	0.0373 ppm	51.3377 ppm	2.6276 ppm	0.0449 ppm
Concentration per Run 3	0.0024 ppm	0.0170 ppm	0.0607 ppm	0.0361 ppm	51.0628 ppm	2.6068 ppm	0.0432 ppm
Concentration RSD	0.3 %	1.0 %	1.2 %	2.7 %	0.9 %	1.9 %	2.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0718 ppm	0.7085 ppm	0.0068 ppm	0.3541 ppm	0.0326 ppm	0.0300 ppm	-0.0016 ppm
Concentration per Run 1	10.2158 ppm	0.7074 ppm	0.0073 ppm	0.3424 ppm	0.0332 ppm	0.0300 ppm	-0.0017 ppm
Concentration per Run 2	10.0787 ppm	0.7128 ppm	0.0066 ppm	0.3602 ppm	0.0324 ppm	0.0302 ppm	-0.0023 ppm
Concentration per Run 3	9.9210 ppm	0.7054 ppm	0.0065 ppm	0.3596 ppm	0.0320 ppm	0.0297 ppm	-0.0009 ppm
Concentration RSD	1.5 %	0.5 %	6.9 %	2.9 %	1.9 %	1.0 %	43.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	1.9537 ppm	0.0034 ppm	0.0387 ppm	1.3992 ppm	-0.0004 ppm	0.0619 ppm
Concentration per Run 1	0.0014 ppm	1.9936 ppm	0.0039 ppm	0.0397 ppm	1.4164 ppm	-0.0007 ppm	0.0621 ppm
Concentration per Run 2	0.0011 ppm	1.9430 ppm	0.0027 ppm	0.0383 ppm	1.3973 ppm	-0.0003 ppm	0.0622 ppm
Concentration per Run 3	0.0013 ppm	1.9246 ppm	0.0035 ppm	0.0381 ppm	1.3840 ppm	-0.0001 ppm	0.0614 ppm
Concentration RSD	13.0 %	1.8 %	19.0 %	2.2 %	1.2 %	80.1 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1205 ppm	94.1919 %	102.9368 %	91.2735 %	99.0059 %	110.6480 %	102.1308 %
Concentration per Run 1	0.1232 ppm	93.4916 %	100.9108 %	90.9269 %	99.0588 %	109.3762 %	102.0734 %
Concentration per Run 2	0.1198 ppm	93.8684 %	103.6283 %	91.2294 %	98.4766 %	110.9896 %	101.9609 %
Concentration per Run 3	0.1186 ppm	95.2158 %	104.2714 %	91.6642 %	99.4822 %	111.5782 %	102.3582 %
Concentration RSD	2.0 %	1.0 %	1.7 %	0.4 %	0.5 %	1.0 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-09D2 WG1975335
Analysis started at: 9/26/2024 2:46:16 PM
Rack 2
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0019 ppm	58.8468 ppm	0.0719 ppm	0.0484 ppm	0.2996 ppm	0.0028 ppm	20.1269 ppm
Concentration per Run 1	0.0020 ppm	58.9158 ppm	0.0715 ppm	0.0493 ppm	0.2991 ppm	0.0028 ppm	20.1424 ppm
Concentration per Run 2	0.0019 ppm	59.0349 ppm	0.0707 ppm	0.0484 ppm	0.3019 ppm	0.0028 ppm	20.1710 ppm
Concentration per Run 3	0.0018 ppm	58.5896 ppm	0.0736 ppm	0.0476 ppm	0.2976 ppm	0.0028 ppm	20.0673 ppm
Concentration RSD	4.7 %	0.4 %	2.0 %	1.7 %	0.7 %	1.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0132 ppm	0.0444 ppm	0.3359 ppm	0.7087 ppm	147.5021 ppm	9.5586 ppm	0.1385 ppm
Concentration per Run 1	0.0133 ppm	0.0447 ppm	0.3373 ppm	0.7105 ppm	147.5051 ppm	9.5636 ppm	0.1391 ppm
Concentration per Run 2	0.0133 ppm	0.0442 ppm	0.3356 ppm	0.7086 ppm	148.5149 ppm	9.6680 ppm	0.1387 ppm
Concentration per Run 3	0.0131 ppm	0.0443 ppm	0.3347 ppm	0.7069 ppm	146.4863 ppm	9.4442 ppm	0.1377 ppm
Concentration RSD	1.0 %	0.7 %	0.4 %	0.3 %	0.7 %	1.2 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	27.5801 ppm	1.2629 ppm	0.0341 ppm	5.2435 ppm	0.1069 ppm	6.5448 ppm	0.0235 ppm
Concentration per Run 1	27.7296 ppm	1.2656 ppm	0.0345 ppm	5.2408 ppm	0.1080 ppm	6.5427 ppm	0.0211 ppm
Concentration per Run 2	27.6009 ppm	1.2640 ppm	0.0337 ppm	5.2535 ppm	0.1066 ppm	6.5737 ppm	0.0252 ppm
Concentration per Run 3	27.4099 ppm	1.2590 ppm	0.0342 ppm	5.2363 ppm	0.1061 ppm	6.5182 ppm	0.0240 ppm
Concentration RSD	0.6 %	0.3 %	1.2 %	0.2 %	0.9 %	0.4 %	8.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0033 ppm	1.7455 ppm	0.2260 ppm	0.1273 ppm	3.4342 ppm	0.0017 ppm	0.1845 ppm
Concentration per Run 1	0.0015 ppm	1.7586 ppm	0.2268 ppm	0.1268 ppm	3.4435 ppm	0.0022 ppm	0.1850 ppm
Concentration per Run 2	0.0044 ppm	1.7555 ppm	0.2265 ppm	0.1277 ppm	3.4367 ppm	0.0014 ppm	0.1850 ppm
Concentration per Run 3	0.0039 ppm	1.7222 ppm	0.2248 ppm	0.1274 ppm	3.4222 ppm	0.0014 ppm	0.1835 ppm
Concentration RSD	47.2 %	1.2 %	0.5 %	0.4 %	0.3 %	28.2 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.0548 ppm	96.6465 %	108.3108 %	88.4036 %	104.1592 %	119.5967 %	105.8163 %
Concentration per Run 1	2.0736 ppm	95.7443 %	107.9905 %	88.3539 %	103.3468 %	118.9699 %	105.7370 %
Concentration per Run 2	2.0435 ppm	96.4626 %	108.3307 %	88.5090 %	103.5925 %	119.8454 %	106.0548 %
Concentration per Run 3	2.0474 ppm	97.7327 %	108.6112 %	88.3481 %	105.5383 %	119.9747 %	105.6572 %
Concentration RSD	0.8 %	1.0 %	0.3 %	0.1 %	1.2 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-11D2 WG1975335
Analysis started at: 9/26/2024 2:50:12 PM
Rack 2
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0017 ppm	230.2629 ppm	0.1543 ppm	0.0781 ppm	0.9354 ppm	0.0109 ppm	32.3841 ppm
Concentration per Run 1	-0.0015 ppm	230.6685 ppm	0.1550 ppm	0.0782 ppm	0.9335 ppm	0.0110 ppm	32.3588 ppm
Concentration per Run 2	-0.0025 ppm	230.5597 ppm	0.1537 ppm	0.0791 ppm	0.9394 ppm	0.0109 ppm	32.5082 ppm
Concentration per Run 3	-0.0011 ppm	229.5604 ppm	0.1541 ppm	0.0768 ppm	0.9332 ppm	0.0108 ppm	32.2852 ppm
Concentration RSD	42.6 %	0.3 %	0.4 %	1.5 %	0.4 %	0.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.1387 ppm	0.4866 ppm	0.2944 ppm	322.3279 ppm	78.1261 ppm	0.4507 ppm
Concentration per Run 1	0.0002 ppm	0.1393 ppm	0.4884 ppm	0.2971 ppm	322.4485 ppm	77.9448 ppm	0.4515 ppm
Concentration per Run 2	0.0000 ppm	0.1385 ppm	0.4873 ppm	0.2942 ppm	323.5300 ppm	78.2827 ppm	0.4504 ppm
Concentration per Run 3	0.0004 ppm	0.1384 ppm	0.4841 ppm	0.2918 ppm	321.0051 ppm	78.1508 ppm	0.4501 ppm
Concentration RSD	106.6 %	0.4 %	0.5 %	0.9 %	0.4 %	0.2 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	111.9318 ppm	5.6966 ppm	0.0065 ppm	19.8911 ppm	0.3359 ppm	0.1444 ppm	0.0019 ppm
Concentration per Run 1	112.5968 ppm	5.6991 ppm	0.0064 ppm	19.9978 ppm	0.3370 ppm	0.1445 ppm	0.0024 ppm
Concentration per Run 2	111.6156 ppm	5.7041 ppm	0.0059 ppm	19.8441 ppm	0.3358 ppm	0.1451 ppm	-0.0036 ppm
Concentration per Run 3	111.5831 ppm	5.6867 ppm	0.0071 ppm	19.8313 ppm	0.3350 ppm	0.1437 ppm	0.0069 ppm
Concentration RSD	0.5 %	0.2 %	9.4 %	0.5 %	0.3 %	0.5 %	275.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	1.4212 ppm	0.0116 ppm	0.2296 ppm	14.2033 ppm	0.0083 ppm	0.6214 ppm
Concentration per Run 1	0.0004 ppm	1.4393 ppm	0.0128 ppm	0.2297 ppm	14.2618 ppm	0.0094 ppm	0.6262 ppm
Concentration per Run 2	0.0017 ppm	1.4214 ppm	0.0096 ppm	0.2306 ppm	14.2310 ppm	0.0100 ppm	0.6235 ppm
Concentration per Run 3	0.0011 ppm	1.4029 ppm	0.0123 ppm	0.2284 ppm	14.1171 ppm	0.0055 ppm	0.6145 ppm
Concentration RSD	62.7 %	1.3 %	15.3 %	0.5 %	0.5 %	29.4 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7948 ppm	102.0817 %	111.1532 %	79.4440 %	123.8656 %	141.4525 %	129.1069 %
Concentration per Run 1	0.7982 ppm	101.3472 %	110.7862 %	79.7281 %	123.6100 %	141.1096 %	129.1728 %
Concentration per Run 2	0.7883 ppm	102.1002 %	111.2072 %	79.1960 %	123.4661 %	141.3916 %	129.1599 %
Concentration per Run 3	0.7979 ppm	102.7977 %	111.4663 %	79.4079 %	124.5207 %	141.8562 %	128.9880 %
Concentration RSD	0.7 %	0.7 %	0.3 %	0.3 %	0.5 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-13D2 WG1975335
Analysis started at: 9/26/2024 2:54:09 PM
Rack 2
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0027 ppm	236.2058 ppm	0.1512 ppm	0.0831 ppm	0.9359 ppm	0.0112 ppm	37.2725 ppm
Concentration per Run 1	-0.0034 ppm	235.5168 ppm	0.1531 ppm	0.0841 ppm	0.9337 ppm	0.0113 ppm	37.2773 ppm
Concentration per Run 2	-0.0020 ppm	238.5828 ppm	0.1502 ppm	0.0827 ppm	0.9460 ppm	0.0111 ppm	37.5005 ppm
Concentration per Run 3	-0.0026 ppm	234.5176 ppm	0.1502 ppm	0.0825 ppm	0.9279 ppm	0.0113 ppm	37.0398 ppm
Concentration RSD	26.7 %	0.9 %	1.1 %	1.0 %	1.0 %	0.9 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.1429 ppm	0.5253 ppm	0.2990 ppm	330.7569 ppm	77.8984 ppm	0.4792 ppm
Concentration per Run 1	-0.0002 ppm	0.1441 ppm	0.5300 ppm	0.2989 ppm	330.6272 ppm	77.8089 ppm	0.4808 ppm
Concentration per Run 2	0.0001 ppm	0.1436 ppm	0.5222 ppm	0.3016 ppm	334.9716 ppm	78.7555 ppm	0.4831 ppm
Concentration per Run 3	0.0002 ppm	0.1410 ppm	0.5236 ppm	0.2964 ppm	326.6719 ppm	77.1306 ppm	0.4738 ppm
Concentration RSD	1,035.5 %	1.2 %	0.8 %	0.9 %	1.3 %	1.0 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	119.1697 ppm	5.5662 ppm	0.0066 ppm	20.1215 ppm	0.3574 ppm	0.1453 ppm	0.0014 ppm
Concentration per Run 1	119.7015 ppm	5.5647 ppm	0.0063 ppm	20.0016 ppm	0.3614 ppm	0.1449 ppm	0.0022 ppm
Concentration per Run 2	119.4171 ppm	5.6006 ppm	0.0063 ppm	20.4079 ppm	0.3546 ppm	0.1451 ppm	-0.0001 ppm
Concentration per Run 3	118.3906 ppm	5.5333 ppm	0.0072 ppm	19.9552 ppm	0.3561 ppm	0.1458 ppm	0.0020 ppm
Concentration RSD	0.6 %	0.6 %	7.5 %	1.2 %	1.0 %	0.3 %	92.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	1.6663 ppm	0.0116 ppm	0.2689 ppm	14.5665 ppm	0.0099 ppm	0.6358 ppm
Concentration per Run 1	0.0005 ppm	1.6840 ppm	0.0102 ppm	0.2679 ppm	14.6946 ppm	0.0103 ppm	0.6447 ppm
Concentration per Run 2	-0.0008 ppm	1.6645 ppm	0.0131 ppm	0.2696 ppm	14.5263 ppm	0.0114 ppm	0.6317 ppm
Concentration per Run 3	-0.0023 ppm	1.6503 ppm	0.0114 ppm	0.2693 ppm	14.4787 ppm	0.0080 ppm	0.6311 ppm
Concentration RSD	162.8 %	1.0 %	12.5 %	0.3 %	0.8 %	17.3 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7996 ppm	101.6065 %	110.0102 %	78.5898 %	123.8776 %	140.8275 %	129.7190 %
Concentration per Run 1	0.8007 ppm	100.5946 %	109.9451 %	79.3036 %	122.2235 %	139.9867 %	129.9555 %
Concentration per Run 2	0.7990 ppm	101.9339 %	109.4147 %	77.8692 %	124.9047 %	140.7901 %	129.3350 %
Concentration per Run 3	0.7990 ppm	102.2912 %	110.6707 %	78.5966 %	124.5046 %	141.7058 %	129.8665 %
Concentration RSD	0.1 %	0.9 %	0.6 %	0.9 %	1.2 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-15D2 WG1975335
Analysis started at: 9/26/2024 2:58:06 PM
Rack 2
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0021 ppm	197.1978 ppm	0.1278 ppm	0.0690 ppm	0.7029 ppm	0.0091 ppm	46.0131 ppm
Concentration per Run 1	-0.0022 ppm	196.8716 ppm	0.1282 ppm	0.0688 ppm	0.6969 ppm	0.0091 ppm	46.0898 ppm
Concentration per Run 2	-0.0021 ppm	198.6732 ppm	0.1292 ppm	0.0694 ppm	0.7126 ppm	0.0091 ppm	46.1300 ppm
Concentration per Run 3	-0.0021 ppm	196.0487 ppm	0.1259 ppm	0.0687 ppm	0.6993 ppm	0.0090 ppm	45.8195 ppm
Concentration RSD	3.0 %	0.7 %	1.3 %	0.5 %	1.2 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.1344 ppm	0.4124 ppm	0.2725 ppm	304.4076 ppm	57.3127 ppm	0.3803 ppm
Concentration per Run 1	-0.0002 ppm	0.1344 ppm	0.4144 ppm	0.2729 ppm	302.4337 ppm	56.9990 ppm	0.3791 ppm
Concentration per Run 2	0.0002 ppm	0.1354 ppm	0.4118 ppm	0.2731 ppm	308.3845 ppm	57.7048 ppm	0.3835 ppm
Concentration per Run 3	-0.0001 ppm	0.1333 ppm	0.4110 ppm	0.2714 ppm	302.4044 ppm	57.2342 ppm	0.3782 ppm
Concentration RSD	335.6 %	0.8 %	0.4 %	0.3 %	1.1 %	0.6 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	100.9684 ppm	5.2147 ppm	0.0050 ppm	10.7693 ppm	0.2962 ppm	0.1197 ppm	0.0010 ppm
Concentration per Run 1	101.2952 ppm	5.1986 ppm	0.0049 ppm	10.7381 ppm	0.2961 ppm	0.1185 ppm	0.0005 ppm
Concentration per Run 2	101.0722 ppm	5.2529 ppm	0.0047 ppm	10.8264 ppm	0.2969 ppm	0.1186 ppm	0.0006 ppm
Concentration per Run 3	100.5378 ppm	5.1927 ppm	0.0053 ppm	10.7435 ppm	0.2955 ppm	0.1220 ppm	0.0019 ppm
Concentration RSD	0.4 %	0.6 %	6.0 %	0.5 %	0.3 %	1.6 %	74.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	1.7961 ppm	0.0079 ppm	0.2499 ppm	12.2131 ppm	0.0062 ppm	0.5519 ppm
Concentration per Run 1	0.0007 ppm	1.8046 ppm	0.0084 ppm	0.2501 ppm	12.2589 ppm	0.0070 ppm	0.5538 ppm
Concentration per Run 2	0.0032 ppm	1.7974 ppm	0.0084 ppm	0.2504 ppm	12.2118 ppm	0.0066 ppm	0.5523 ppm
Concentration per Run 3	-0.0015 ppm	1.7864 ppm	0.0070 ppm	0.2491 ppm	12.1686 ppm	0.0050 ppm	0.5497 ppm
Concentration RSD	287.8 %	0.5 %	10.2 %	0.3 %	0.4 %	16.5 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6904 ppm	100.4745 %	109.2802 %	79.7510 %	122.7219 %	139.8473 %	127.8135 %
Concentration per Run 1	0.6935 ppm	99.8928 %	110.3097 %	80.5984 %	121.6916 %	141.2191 %	128.5532 %
Concentration per Run 2	0.6903 ppm	100.5048 %	107.8814 %	79.3298 %	123.0393 %	138.4369 %	127.6293 %
Concentration per Run 3	0.6873 ppm	101.0258 %	109.6497 %	79.3246 %	123.4346 %	139.8859 %	127.2581 %
Concentration RSD	0.5 %	0.6 %	1.1 %	0.9 %	0.7 %	1.0 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-17D2 WG1975335
Analysis started at: 9/26/2024 3:02:03 PM
Rack 2
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0028 ppm	104.2474 ppm	0.1148 ppm	0.0388 ppm	1.2538 ppm	0.0049 ppm	158.2426 ppm
Concentration per Run 1	0.0029 ppm	104.1259 ppm	0.1148 ppm	0.0399 ppm	1.2571 ppm	0.0049 ppm	157.9101 ppm
Concentration per Run 2	0.0026 ppm	104.2903 ppm	0.1137 ppm	0.0385 ppm	1.2432 ppm	0.0050 ppm	158.5103 ppm
Concentration per Run 3	0.0029 ppm	104.3261 ppm	0.1159 ppm	0.0379 ppm	1.2612 ppm	0.0049 ppm	158.3075 ppm
Concentration RSD	5.6 %	0.1 %	1.0 %	2.6 %	0.8 %	1.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0713 ppm	0.0888 ppm	0.2494 ppm	2.6449 ppm	247.9795 ppm	10.2388 ppm	0.1663 ppm
Concentration per Run 1	0.0720 ppm	0.0904 ppm	0.2524 ppm	2.6697 ppm	248.1128 ppm	10.3089 ppm	0.1685 ppm
Concentration per Run 2	0.0712 ppm	0.0887 ppm	0.2487 ppm	2.6474 ppm	246.6893 ppm	10.1852 ppm	0.1660 ppm
Concentration per Run 3	0.0707 ppm	0.0872 ppm	0.2471 ppm	2.6176 ppm	249.1365 ppm	10.2223 ppm	0.1644 ppm
Concentration RSD	0.9 %	1.8 %	1.1 %	1.0 %	0.5 %	0.6 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	55.0453 ppm	3.7752 ppm	0.0135 ppm	1.7413 ppm	0.2399 ppm	4.8767 ppm	0.1641 ppm
Concentration per Run 1	55.6891 ppm	3.7671 ppm	0.0130 ppm	1.7453 ppm	0.2431 ppm	4.8800 ppm	0.1634 ppm
Concentration per Run 2	55.0170 ppm	3.7752 ppm	0.0136 ppm	1.7374 ppm	0.2391 ppm	4.8834 ppm	0.1639 ppm
Concentration per Run 3	54.4299 ppm	3.7832 ppm	0.0139 ppm	1.7413 ppm	0.2375 ppm	4.8667 ppm	0.1651 ppm
Concentration RSD	1.1 %	0.2 %	3.1 %	0.2 %	1.2 %	0.2 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0050 ppm	9.1217 ppm	1.2788 ppm	0.7675 ppm	3.4592 ppm	0.0014 ppm	0.3793 ppm
Concentration per Run 1	0.0022 ppm	9.2310 ppm	1.2950 ppm	0.7689 ppm	3.4799 ppm	-0.0013 ppm	0.3826 ppm
Concentration per Run 2	0.0070 ppm	9.1155 ppm	1.2750 ppm	0.7666 ppm	3.4538 ppm	0.0020 ppm	0.3805 ppm
Concentration per Run 3	0.0057 ppm	9.0187 ppm	1.2664 ppm	0.7670 ppm	3.4438 ppm	0.0035 ppm	0.3749 ppm
Concentration RSD	49.9 %	1.2 %	1.1 %	0.2 %	0.5 %	174.7 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	20.0530 [SIC 50]	94.7738 %	108.2681 %	83.3832 %	108.3433 %	127.1790 %	109.2795 %
Concentration per Run 1	20.3942 ppm	93.8834 %	108.4954 %	83.6433 %	107.8125 %	127.2601 %	109.4570 %
Concentration per Run 2	20.0017 ppm	94.8337 %	108.3798 %	83.2401 %	108.3211 %	127.1969 %	109.1502 %
Concentration per Run 3	19.7633 ppm	95.6044 %	107.9291 %	83.2662 %	108.8962 %	127.0800 %	109.2314 %
Concentration RSD	1.6 %	0.9 %	0.3 %	0.3 %	0.5 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 3:06:01 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5086 ppm	0.5003 ppm	0.4908 ppm	0.5031 ppm	0.5076 ppm	0.5200 ppm	0.5022 ppm
Concentration per Run 1	0.5133 ppm	0.5013 ppm	0.4911 ppm	0.5067 ppm	0.5097 ppm	0.5220 ppm	0.5017 ppm
Concentration per Run 2	0.5080 ppm	0.4971 ppm	0.4932 ppm	0.5018 ppm	0.5065 ppm	0.5167 ppm	0.5037 ppm
Concentration per Run 3	0.5044 ppm	0.5025 ppm	0.4881 ppm	0.5008 ppm	0.5066 ppm	0.5212 ppm	0.5013 ppm
Recovery Percentage 1	101.714 %	100.055 %	98.158 %	100.622 %	101.518 %	103.994 %	100.449 %
Concentration RSD	0.9 %	0.6 %	0.5 %	0.6 %	0.4 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5151 ppm	0.5147 ppm	0.5044 ppm	0.4997 ppm	0.5341 ppm	5.3402 ppm	0.5022 ppm
Concentration per Run 1	0.5195 ppm	0.5192 ppm	0.5093 ppm	0.5048 ppm	0.5359 ppm	5.3904 ppm	0.5054 ppm
Concentration per Run 2	0.5136 ppm	0.5140 ppm	0.5040 ppm	0.4991 ppm	0.5332 ppm	5.3260 ppm	0.4999 ppm
Concentration per Run 3	0.5123 ppm	0.5108 ppm	0.5001 ppm	0.4953 ppm	0.5332 ppm	5.3041 ppm	0.5013 ppm
Recovery Percentage 1	103.023 %	102.935 %	100.888 %	99.944 %	106.828 %	106.804 %	100.441 %
Concentration RSD	0.7 %	0.8 %	0.9 %	1.0 %	0.3 %	0.8 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4991 ppm	0.5064 ppm	0.5080 ppm	10.2639 ppm	0.5148 ppm	0.5040 ppm	0.5067 ppm
Concentration per Run 1	0.5048 ppm	0.5081 ppm	0.5094 ppm	10.3209 ppm	0.5196 ppm	0.5043 ppm	0.5141 ppm
Concentration per Run 2	0.4977 ppm	0.5064 ppm	0.5069 ppm	10.2437 ppm	0.5142 ppm	0.5050 ppm	0.5020 ppm
Concentration per Run 3	0.4949 ppm	0.5048 ppm	0.5077 ppm	10.2271 ppm	0.5107 ppm	0.5027 ppm	0.5039 ppm
Recovery Percentage 1	99.829 %	101.289 %	101.600 %	102.639 %	102.969 %	100.798 %	101.333 %
Concentration RSD	1.0 %	0.3 %	0.2 %	0.5 %	0.9 %	0.2 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5033 ppm	5.6755 ppm	0.4924 ppm	0.4898 ppm	0.5085 ppm	0.5035 ppm	0.5068 ppm
Concentration per Run 1	0.5058 ppm	5.7315 ppm	0.4960 ppm	0.4901 ppm	0.5117 ppm	0.5079 ppm	0.5115 ppm
Concentration per Run 2	0.5045 ppm	5.6586 ppm	0.4923 ppm	0.4905 ppm	0.5121 ppm	0.5032 ppm	0.5065 ppm
Concentration per Run 3	0.4996 ppm	5.6364 ppm	0.4889 ppm	0.4888 ppm	0.5017 ppm	0.4992 ppm	0.5025 ppm
Recovery Percentage 1	100.661 %	108.105 %	98.479 %	97.961 %	101.702 %	100.693 %	101.367 %
Concentration RSD	0.6 %	0.9 %	0.7 %	0.2 %	1.2 %	0.9 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5143 ppm	93.9251 %	102.5292 %	92.5472 %	91.1122 %	100.6228 %	92.6283 %
Concentration per Run 1	0.5189 ppm	93.1618 %	102.1457 %	92.3236 %	90.5071 %	100.2784 %	92.6112 %
Concentration per Run 2	0.5115 ppm	94.2775 %	102.3172 %	92.3466 %	91.3063 %	100.4239 %	92.4921 %
Concentration per Run 3	0.5125 ppm	94.3360 %	103.1247 %	92.9714 %	91.5231 %	101.1660 %	92.7817 %
Recovery Percentage 1	102.858 %						
Concentration RSD	0.8 %	0.7 %	0.5 %	0.4 %	0.6 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 3:09:57 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0012 ppm	0.0011 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run 1	-0.0002 ppm	-0.0012 ppm	0.0010 ppm	0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 2	-0.0003 ppm	-0.0056 ppm	0.0011 ppm	0.0007 ppm	0.0001 ppm	-0.0001 ppm	0.0031 ppm
Concentration per Run 3	-0.0002 ppm	0.0032 ppm	0.0011 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	0.0058 ppm
Recovery Percentage 1	-3.282 %	-1.208 %	35.043 %	4.317 %	0.828 %	-0.322 %	4.165 %
Concentration RSD	42.8 %	362.2 %	6.6 %	42.3 %	96.7 %	334.6 %	34.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0013 ppm	0.0060 ppm	0.0093 ppm	0.0009 ppm
Concentration per Run 1	0.0001 ppm	-0.0005 ppm	-0.0002 ppm	0.0016 ppm	0.0068 ppm	0.0208 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0010 ppm	0.0048 ppm	-0.0065 ppm	0.0001 ppm
Concentration per Run 3	0.0001 ppm	-0.0006 ppm	0.0002 ppm	0.0014 ppm	0.0065 ppm	0.0135 ppm	0.0009 ppm
Recovery Percentage 1	1.809 %	-2.152 %	0.391 %	13.495 %	12.033 %	0.370 %	9.383 %
Concentration RSD	56.3 %	53.6 %	582.4 %	22.6 %	18.1 %	152.4 %	90.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0009 ppm	0.0001 ppm	0.0016 ppm	0.0050 ppm	0.0003 ppm	0.0001 ppm	-0.0031 ppm
Concentration per Run 1	0.0009 ppm	0.0002 ppm	0.0014 ppm	0.0017 ppm	0.0004 ppm	0.0006 ppm	-0.0032 ppm
Concentration per Run 2	0.0010 ppm	0.0002 ppm	0.0017 ppm	0.0040 ppm	0.0004 ppm	-0.0010 ppm	-0.0038 ppm
Concentration per Run 3	0.0009 ppm	0.0001 ppm	0.0017 ppm	0.0091 ppm	0.0001 ppm	0.0006 ppm	-0.0025 ppm
Recovery Percentage 1	0.918 %	1.461 %	3.207 %	0.248 %	1.207 %	0.778 %	-6.278 %
Concentration RSD	5.2 %	46.2 %	10.2 %	76.5 %	61.4 %	1,215.9 %	20.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	0.0025 ppm	0.0007 ppm	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0022 ppm	0.0030 ppm	0.0008 ppm	0.0000 ppm	0.0003 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 2	0.0022 ppm	0.0025 ppm	0.0009 ppm	-0.0001 ppm	0.0005 ppm	0.0008 ppm	-0.0001 ppm
Concentration per Run 3	0.0020 ppm	0.0019 ppm	0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0011 ppm	0.0000 ppm
Recovery Percentage 1	21.171 %	0.494 %	1.316 %	-0.329 %	3.686 %	1.579 %	0.225 %
Concentration RSD	3.9 %	23.2 %	59.1 %	133.6 %	28.3 %	359.7 %	414.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	92.2456 %	101.2724 %	93.2132 %	92.4305 %	101.1143 %	94.5457 %
Concentration per Run 1	0.0007 ppm	91.1993 %	101.8449 %	93.2830 %	92.0028 %	102.2499 %	94.7985 %
Concentration per Run 2	0.0006 ppm	92.4809 %	101.3182 %	93.1125 %	92.6211 %	100.5484 %	94.3748 %
Concentration per Run 3	0.0008 ppm	93.0567 %	100.6541 %	93.2440 %	92.6674 %	100.5445 %	94.4638 %
Recovery Percentage 1	13.382 %						
Concentration RSD	15.9 %	1.0 %	0.6 %	0.1 %	0.4 %	1.0 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-19D2 WG1975335
Analysis started at: 9/26/2024 3:18:47 PM
Rack 2
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	88.8007 ppm	0.1225 ppm	0.0883 ppm	0.8219 ppm	0.0039 ppm	307.0234 ppm
Concentration per Run 1	0.0010 ppm	88.7476 ppm	0.1197 ppm	0.0887 ppm	0.8218 ppm	0.0039 ppm	307.7822 ppm
Concentration per Run 2	0.0017 ppm	88.7791 ppm	0.1240 ppm	0.0875 ppm	0.8265 ppm	0.0039 ppm	306.8883 ppm
Concentration per Run 3	0.0012 ppm	88.8755 ppm	0.1239 ppm	0.0889 ppm	0.8175 ppm	0.0039 ppm	306.3997 ppm
Concentration RSD	26.5 %	0.1 %	2.0 %	0.8 %	0.6 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0068 ppm	0.0901 ppm	0.4030 ppm	1.0778 ppm	374.3628 ppm	8.8766 ppm	0.1600 ppm
Concentration per Run 1	0.0069 ppm	0.0897 ppm	0.4036 ppm	1.0830 ppm	376.0363 ppm	8.9391 ppm	0.1620 ppm
Concentration per Run 2	0.0065 ppm	0.0902 ppm	0.4025 ppm	1.0668 ppm	375.0117 ppm	8.8381 ppm	0.1591 ppm
Concentration per Run 3	0.0070 ppm	0.0905 ppm	0.4030 ppm	1.0837 ppm	372.0403 ppm	8.8526 ppm	0.1589 ppm
Concentration RSD	4.1 %	0.4 %	0.1 %	0.9 %	0.6 %	0.6 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	104.4742 ppm	4.7398 ppm	0.0227 ppm	2.6803 ppm	1.1170 ppm	1.8426 ppm	0.0139 ppm
Concentration per Run 1	104.5842 ppm	4.7423 ppm	0.0229 ppm	2.6768 ppm	1.1187 ppm	1.8500 ppm	0.0122 ppm
Concentration per Run 2	104.1693 ppm	4.7417 ppm	0.0229 ppm	2.6976 ppm	1.1114 ppm	1.8339 ppm	0.0165 ppm
Concentration per Run 3	104.6690 ppm	4.7354 ppm	0.0224 ppm	2.6665 ppm	1.1209 ppm	1.8440 ppm	0.0129 ppm
Concentration RSD	0.3 %	0.1 %	1.2 %	0.6 %	0.4 %	0.4 %	16.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0060 ppm	17.1111 ppm	0.0608 ppm	1.7753 ppm	3.1902 ppm	0.0082 ppm	3.2331 ppm
Concentration per Run 1	0.0070 ppm	17.1406 ppm	0.0607 ppm	1.7709 ppm	3.1935 ppm	0.0067 ppm	3.2362 ppm
Concentration per Run 2	0.0050 ppm	17.1095 ppm	0.0606 ppm	1.7830 ppm	3.1759 ppm	0.0075 ppm	3.2264 ppm
Concentration per Run 3	0.0061 ppm	17.0833 ppm	0.0612 ppm	1.7720 ppm	3.2010 ppm	0.0106 ppm	3.2367 ppm
Concentration RSD	16.8 %	0.2 %	0.5 %	0.4 %	0.4 %	25.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.2160 ppm	93.8783 %	106.0775 %	79.0194 %	102.3679 %	118.8823 %	101.1099 %
Concentration per Run 1	2.2198 ppm	93.9780 %	105.8349 %	78.8160 %	102.5218 %	118.9881 %	101.0336 %
Concentration per Run 2	2.2029 ppm	94.1404 %	105.9490 %	79.5957 %	102.2564 %	118.4368 %	101.5908 %
Concentration per Run 3	2.2251 ppm	93.5166 %	106.4486 %	78.6464 %	102.3255 %	119.2218 %	100.7054 %
Concentration RSD	0.5 %	0.3 %	0.3 %	0.6 %	0.1 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-21D2 WG1975335
Analysis started at: 9/26/2024 3:22:49 PM
Rack 2
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	43.0855 ppm	0.0153 ppm	0.0093 ppm	0.0653 ppm	0.0017 ppm	7.4433 ppm
Concentration per Run 1	-0.0005 ppm	43.4830 ppm	0.0156 ppm	0.0094 ppm	0.0659 ppm	0.0017 ppm	7.4370 ppm
Concentration per Run 2	-0.0005 ppm	43.2956 ppm	0.0156 ppm	0.0089 ppm	0.0659 ppm	0.0016 ppm	7.3990 ppm
Concentration per Run 3	-0.0002 ppm	42.4780 ppm	0.0147 ppm	0.0096 ppm	0.0640 ppm	0.0019 ppm	7.4938 ppm
Concentration RSD	42.7 %	1.2 %	3.3 %	4.2 %	1.7 %	8.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0295 ppm	0.0917 ppm	0.0463 ppm	64.9849 ppm	4.8129 ppm	0.1482 ppm
Concentration per Run 1	-0.0001 ppm	0.0300 ppm	0.0929 ppm	0.0472 ppm	65.8345 ppm	4.9427 ppm	0.1540 ppm
Concentration per Run 2	-0.0002 ppm	0.0291 ppm	0.0912 ppm	0.0466 ppm	65.5166 ppm	4.8781 ppm	0.1496 ppm
Concentration per Run 3	0.0000 ppm	0.0294 ppm	0.0911 ppm	0.0451 ppm	63.6037 ppm	4.6179 ppm	0.1409 ppm
Concentration RSD	110.2 %	1.5 %	1.1 %	2.3 %	1.9 %	3.6 %	4.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.2809 ppm	0.6431 ppm	0.0070 ppm	0.7727 ppm	0.0701 ppm	0.0221 ppm	-0.0024 ppm
Concentration per Run 1	18.5491 ppm	0.6460 ppm	0.0069 ppm	0.7912 ppm	0.0714 ppm	0.0217 ppm	-0.0013 ppm
Concentration per Run 2	18.1642 ppm	0.6431 ppm	0.0065 ppm	0.7786 ppm	0.0696 ppm	0.0227 ppm	-0.0035 ppm
Concentration per Run 3	18.1295 ppm	0.6402 ppm	0.0076 ppm	0.7483 ppm	0.0692 ppm	0.0218 ppm	-0.0023 ppm
Concentration RSD	1.3 %	0.5 %	8.0 %	2.9 %	1.6 %	2.4 %	47.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	3.8396 ppm	0.0021 ppm	0.0362 ppm	2.5243 ppm	0.0002 ppm	0.1083 ppm
Concentration per Run 1	0.0018 ppm	3.8974 ppm	0.0022 ppm	0.0362 ppm	2.5652 ppm	-0.0004 ppm	0.1101 ppm
Concentration per Run 2	0.0023 ppm	3.8285 ppm	0.0025 ppm	0.0359 ppm	2.5062 ppm	0.0004 ppm	0.1076 ppm
Concentration per Run 3	-0.0001 ppm	3.7930 ppm	0.0015 ppm	0.0366 ppm	2.5014 ppm	0.0006 ppm	0.1072 ppm
Concentration RSD	97.9 %	1.4 %	26.3 %	1.0 %	1.4 %	228.5 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1297 ppm	92.6166 %	104.3185 %	89.4568 %	94.5540 %	109.1411 %	99.1794 %
Concentration per Run 1	0.1315 ppm	91.1864 %	105.3437 %	89.4996 %	93.8088 %	109.7831 %	99.1744 %
Concentration per Run 2	0.1289 ppm	93.0509 %	106.2808 %	89.2618 %	94.8184 %	110.8604 %	99.1292 %
Concentration per Run 3	0.1288 ppm	93.6125 %	101.3310 %	89.6089 %	95.0350 %	106.7799 %	99.2346 %
Concentration RSD	1.2 %	1.4 %	2.5 %	0.2 %	0.7 %	1.9 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-23D2 WG1975335
Analysis started at: 9/26/2024 3:26:46 PM
Rack 2
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0024 ppm	229.5874 ppm	0.1644 ppm	0.0784 ppm	0.8993 ppm	0.0109 ppm	30.9338 ppm
Concentration per Run 1	-0.0022 ppm	230.8693 ppm	0.1639 ppm	0.0773 ppm	0.9094 ppm	0.0109 ppm	30.9978 ppm
Concentration per Run 2	-0.0023 ppm	229.5324 ppm	0.1670 ppm	0.0794 ppm	0.8973 ppm	0.0111 ppm	30.9445 ppm
Concentration per Run 3	-0.0029 ppm	228.3603 ppm	0.1622 ppm	0.0784 ppm	0.8911 ppm	0.0109 ppm	30.8592 ppm
Concentration RSD	16.3 %	0.5 %	1.5 %	1.3 %	1.0 %	0.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.1406 ppm	0.4859 ppm	0.3002 ppm	323.6646 ppm	77.4862 ppm	0.4453 ppm
Concentration per Run 1	-0.0001 ppm	0.1411 ppm	0.4883 ppm	0.3023 ppm	327.0914 ppm	78.2910 ppm	0.4518 ppm
Concentration per Run 2	-0.0001 ppm	0.1407 ppm	0.4847 ppm	0.3004 ppm	322.1009 ppm	77.2632 ppm	0.4425 ppm
Concentration per Run 3	-0.0003 ppm	0.1401 ppm	0.4846 ppm	0.2979 ppm	321.8014 ppm	76.9045 ppm	0.4415 ppm
Concentration RSD	106.3 %	0.4 %	0.4 %	0.7 %	0.9 %	0.9 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	110.3193 ppm	5.4480 ppm	0.0058 ppm	15.4314 ppm	0.3397 ppm	0.1353 ppm	-0.0003 ppm
Concentration per Run 1	111.0181 ppm	5.4813 ppm	0.0057 ppm	15.5320 ppm	0.3421 ppm	0.1357 ppm	0.0026 ppm
Concentration per Run 2	110.1354 ppm	5.4327 ppm	0.0067 ppm	15.4584 ppm	0.3373 ppm	0.1354 ppm	-0.0027 ppm
Concentration per Run 3	109.8043 ppm	5.4298 ppm	0.0052 ppm	15.3038 ppm	0.3397 ppm	0.1348 ppm	-0.0007 ppm
Concentration RSD	0.6 %	0.5 %	13.1 %	0.8 %	0.7 %	0.4 %	981.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	2.2584 ppm	0.0099 ppm	0.2159 ppm	14.5608 ppm	0.0093 ppm	0.6226 ppm
Concentration per Run 1	0.0019 ppm	2.2795 ppm	0.0102 ppm	0.2176 ppm	14.5735 ppm	0.0084 ppm	0.6250 ppm
Concentration per Run 2	-0.0033 ppm	2.2475 ppm	0.0116 ppm	0.2164 ppm	14.5632 ppm	0.0107 ppm	0.6196 ppm
Concentration per Run 3	0.0012 ppm	2.2482 ppm	0.0081 ppm	0.2139 ppm	14.5459 ppm	0.0089 ppm	0.6232 ppm
Concentration RSD	3,242.3 %	0.8 %	17.9 %	0.9 %	0.1 %	12.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7842 ppm	102.0634 %	111.2383 %	78.9535 %	124.2198 %	141.9647 %	129.9606 %
Concentration per Run 1	0.7878 ppm	101.3832 %	110.4519 %	78.9486 %	123.6783 %	140.8546 %	129.4749 %
Concentration per Run 2	0.7824 ppm	102.5246 %	111.9419 %	78.8928 %	124.6966 %	142.9597 %	130.1157 %
Concentration per Run 3	0.7824 ppm	102.2825 %	111.3210 %	79.0191 %	124.2845 %	142.0798 %	130.2912 %
Concentration RSD	0.4 %	0.6 %	0.7 %	0.1 %	0.4 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-25D2 WG1975335
Analysis started at: 9/26/2024 3:30:42 PM
Rack 2
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0024 ppm	246.7958 ppm	0.1664 ppm	0.0993 ppm	1.0429 ppm	0.0129 ppm	39.7576 ppm
Concentration per Run 1	-0.0030 ppm	247.0107 ppm	0.1666 ppm	0.1000 ppm	1.0483 ppm	0.0129 ppm	39.7193 ppm
Concentration per Run 2	-0.0021 ppm	247.8911 ppm	0.1658 ppm	0.0996 ppm	1.0450 ppm	0.0131 ppm	39.7901 ppm
Concentration per Run 3	-0.0021 ppm	245.4856 ppm	0.1669 ppm	0.0984 ppm	1.0354 ppm	0.0128 ppm	39.7632 ppm
Concentration RSD	21.9 %	0.5 %	0.4 %	0.8 %	0.6 %	1.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.1377 ppm	0.5719 ppm	0.2740 ppm	328.7877 ppm	88.5092 ppm	0.5251 ppm
Concentration per Run 1	-0.0002 ppm	0.1380 ppm	0.5752 ppm	0.2739 ppm	329.8525 ppm	89.0515 ppm	0.5313 ppm
Concentration per Run 2	-0.0001 ppm	0.1378 ppm	0.5725 ppm	0.2753 ppm	329.2642 ppm	88.5234 ppm	0.5284 ppm
Concentration per Run 3	0.0001 ppm	0.1373 ppm	0.5681 ppm	0.2730 ppm	327.2464 ppm	87.9528 ppm	0.5154 ppm
Concentration RSD	187.4 %	0.3 %	0.6 %	0.4 %	0.4 %	0.6 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	119.2181 ppm	5.9704 ppm	0.0047 ppm	17.0879 ppm	0.3747 ppm	0.1501 ppm	0.0033 ppm
Concentration per Run 1	119.7830 ppm	5.9629 ppm	0.0049 ppm	17.1826 ppm	0.3774 ppm	0.1510 ppm	0.0042 ppm
Concentration per Run 2	119.1869 ppm	5.9829 ppm	0.0041 ppm	17.0614 ppm	0.3762 ppm	0.1486 ppm	0.0017 ppm
Concentration per Run 3	118.6844 ppm	5.9653 ppm	0.0052 ppm	17.0196 ppm	0.3707 ppm	0.1507 ppm	0.0039 ppm
Concentration RSD	0.5 %	0.2 %	12.1 %	0.5 %	1.0 %	0.9 %	42.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	2.3039 ppm	0.0147 ppm	0.3004 ppm	15.0167 ppm	0.0103 ppm	0.6183 ppm
Concentration per Run 1	-0.0049 ppm	2.3019 ppm	0.0142 ppm	0.3016 ppm	15.0840 ppm	0.0114 ppm	0.6223 ppm
Concentration per Run 2	-0.0016 ppm	2.3126 ppm	0.0155 ppm	0.3007 ppm	15.0273 ppm	0.0118 ppm	0.6159 ppm
Concentration per Run 3	0.0011 ppm	2.2972 ppm	0.0145 ppm	0.2989 ppm	14.9387 ppm	0.0077 ppm	0.6168 ppm
Concentration RSD	165.8 %	0.3 %	4.6 %	0.4 %	0.5 %	21.7 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8086 ppm	103.5786 %	111.7244 %	78.8165 %	126.4113 %	143.8714 %	131.2497 %
Concentration per Run 1	0.8101 ppm	102.7352 %	111.9581 %	78.8630 %	125.0582 %	143.9070 %	131.4348 %
Concentration per Run 2	0.8136 ppm	103.9719 %	111.9429 %	78.8281 %	127.0770 %	144.5985 %	130.8308 %
Concentration per Run 3	0.8022 ppm	104.0287 %	111.2721 %	78.7585 %	127.0986 %	143.1087 %	131.4834 %
Concentration RSD	0.7 %	0.7 %	0.4 %	0.1 %	0.9 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-27D2 WG1975335
Analysis started at: 9/26/2024 3:34:38 PM
Rack 2
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0026 ppm	226.7609 ppm	0.1687 ppm	0.0654 ppm	0.7420 ppm	0.0109 ppm	47.2622 ppm
Concentration per Run 1	-0.0020 ppm	226.7993 ppm	0.1705 ppm	0.0668 ppm	0.7492 ppm	0.0109 ppm	47.2997 ppm
Concentration per Run 2	-0.0037 ppm	227.7938 ppm	0.1677 ppm	0.0647 ppm	0.7407 ppm	0.0111 ppm	47.7908 ppm
Concentration per Run 3	-0.0022 ppm	225.6895 ppm	0.1678 ppm	0.0647 ppm	0.7359 ppm	0.0106 ppm	46.6963 ppm
Concentration RSD	36.0 %	0.5 %	0.9 %	1.9 %	0.9 %	2.6 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.1477 ppm	0.5180 ppm	0.2973 ppm	334.8322 ppm	62.4986 ppm	0.4663 ppm
Concentration per Run 1	-0.0001 ppm	0.1484 ppm	0.5195 ppm	0.2999 ppm	335.2211 ppm	62.8027 ppm	0.4769 ppm
Concentration per Run 2	-0.0004 ppm	0.1474 ppm	0.5188 ppm	0.2964 ppm	335.8572 ppm	62.0473 ppm	0.4672 ppm
Concentration per Run 3	-0.0004 ppm	0.1473 ppm	0.5158 ppm	0.2957 ppm	333.4184 ppm	62.6458 ppm	0.4547 ppm
Concentration RSD	68.4 %	0.4 %	0.4 %	0.8 %	0.4 %	0.6 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	120.7519 ppm	5.9811 ppm	0.0057 ppm	9.8234 ppm	0.3551 ppm	0.1418 ppm	0.0021 ppm
Concentration per Run 1	121.6311 ppm	5.9737 ppm	0.0059 ppm	9.8437 ppm	0.3560 ppm	0.1418 ppm	0.0038 ppm
Concentration per Run 2	120.4497 ppm	6.0210 ppm	0.0056 ppm	9.8458 ppm	0.3561 ppm	0.1437 ppm	-0.0026 ppm
Concentration per Run 3	120.1749 ppm	5.9486 ppm	0.0056 ppm	9.7808 ppm	0.3533 ppm	0.1398 ppm	0.0051 ppm
Concentration RSD	0.6 %	0.6 %	3.2 %	0.4 %	0.5 %	1.4 %	195.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	1.7701 ppm	0.0119 ppm	0.2835 ppm	13.7838 ppm	0.0076 ppm	0.6224 ppm
Concentration per Run 1	0.0023 ppm	1.7838 ppm	0.0115 ppm	0.2869 ppm	13.8308 ppm	0.0040 ppm	0.6219 ppm
Concentration per Run 2	0.0007 ppm	1.7564 ppm	0.0120 ppm	0.2841 ppm	13.7994 ppm	0.0079 ppm	0.6255 ppm
Concentration per Run 3	0.0004 ppm	1.7700 ppm	0.0122 ppm	0.2796 ppm	13.7212 ppm	0.0108 ppm	0.6199 ppm
Concentration RSD	92.1 %	0.8 %	3.3 %	1.3 %	0.4 %	44.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7862 ppm	101.7065 %	111.5483 %	78.9052 %	125.5319 %	144.3422 %	130.8815 %
Concentration per Run 1	0.7957 ppm	101.3517 %	112.7063 %	79.0922 %	125.1939 %	145.2603 %	130.8576 %
Concentration per Run 2	0.7805 ppm	101.3897 %	109.0480 %	77.9013 %	125.0638 %	142.2097 %	130.3010 %
Concentration per Run 3	0.7824 ppm	102.3780 %	112.8904 %	79.7223 %	126.3379 %	145.5566 %	131.4860 %
Concentration RSD	1.1 %	0.6 %	1.9 %	1.2 %	0.6 %	1.3 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-29D2 WG1975335
Analysis started at: 9/26/2024 3:38:35 PM
Rack 2
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	49.8733 ppm	0.0513 ppm	0.0058 ppm	0.3123 ppm	0.0030 ppm	11.1393 ppm
Concentration per Run 1	0.0009 ppm	50.2270 ppm	0.0519 ppm	0.0061 ppm	0.3146 ppm	0.0030 ppm	11.2178 ppm
Concentration per Run 2	0.0006 ppm	49.7854 ppm	0.0518 ppm	0.0049 ppm	0.3125 ppm	0.0029 ppm	11.1408 ppm
Concentration per Run 3	0.0005 ppm	49.6074 ppm	0.0501 ppm	0.0064 ppm	0.3098 ppm	0.0029 ppm	11.0592 ppm
Concentration RSD	27.8 %	0.6 %	2.0 %	14.2 %	0.8 %	1.9 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0175 ppm	0.0392 ppm	0.1171 ppm	0.4246 ppm	122.1778 ppm	4.2901 ppm	0.0729 ppm
Concentration per Run 1	0.0175 ppm	0.0399 ppm	0.1188 ppm	0.4269 ppm	122.6742 ppm	4.3294 ppm	0.0743 ppm
Concentration per Run 2	0.0174 ppm	0.0386 ppm	0.1170 ppm	0.4243 ppm	121.9614 ppm	4.2336 ppm	0.0733 ppm
Concentration per Run 3	0.0175 ppm	0.0391 ppm	0.1155 ppm	0.4228 ppm	121.8978 ppm	4.3073 ppm	0.0712 ppm
Concentration RSD	0.5 %	1.7 %	1.4 %	0.5 %	0.4 %	1.2 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.5837 ppm	1.8063 ppm	0.0072 ppm	0.4601 ppm	0.0705 ppm	0.6421 ppm	0.0099 ppm
Concentration per Run 1	17.7324 ppm	1.8165 ppm	0.0072 ppm	0.4635 ppm	0.0709 ppm	0.6476 ppm	0.0108 ppm
Concentration per Run 2	17.6167 ppm	1.8004 ppm	0.0075 ppm	0.4605 ppm	0.0705 ppm	0.6421 ppm	0.0095 ppm
Concentration per Run 3	17.4021 ppm	1.8018 ppm	0.0070 ppm	0.4565 ppm	0.0700 ppm	0.6366 ppm	0.0093 ppm
Concentration RSD	1.0 %	0.5 %	4.1 %	0.8 %	0.6 %	0.9 %	8.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	2.4204 ppm	0.0462 ppm	0.0940 ppm	2.4393 ppm	0.0001 ppm	0.1484 ppm
Concentration per Run 1	0.0054 ppm	2.4359 ppm	0.0466 ppm	0.0948 ppm	2.4575 ppm	0.0001 ppm	0.1492 ppm
Concentration per Run 2	-0.0007 ppm	2.4300 ppm	0.0467 ppm	0.0936 ppm	2.4428 ppm	-0.0017 ppm	0.1485 ppm
Concentration per Run 3	0.0009 ppm	2.3955 ppm	0.0454 ppm	0.0935 ppm	2.4175 ppm	0.0019 ppm	0.1476 ppm
Concentration RSD	172.2 %	0.9 %	1.5 %	0.8 %	0.8 %	1,518.1 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6154 ppm	96.1318 %	107.3442 %	89.7192 %	109.7163 %	123.7633 %	111.1209 %
Concentration per Run 1	0.6207 ppm	95.7383 %	106.8002 %	89.6494 %	109.5424 %	123.3709 %	111.7344 %
Concentration per Run 2	0.6161 ppm	95.6714 %	107.8527 %	89.8392 %	109.1309 %	124.0351 %	111.0303 %
Concentration per Run 3	0.6094 ppm	96.9855 %	107.3796 %	89.6690 %	110.4757 %	123.8838 %	110.5980 %
Concentration RSD	0.9 %	0.8 %	0.5 %	0.1 %	0.6 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-31D2 WG1975335
Analysis started at: 9/26/2024 3:42:31 PM
Rack 2
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	31.7915 ppm	0.0302 ppm	0.0029 ppm	0.1013 ppm	0.0024 ppm	4.9475 ppm
Concentration per Run 1	-0.0005 ppm	31.8541 ppm	0.0312 ppm	0.0045 ppm	0.1017 ppm	0.0024 ppm	4.9568 ppm
Concentration per Run 2	-0.0004 ppm	31.9195 ppm	0.0309 ppm	0.0026 ppm	0.1014 ppm	0.0024 ppm	4.9510 ppm
Concentration per Run 3	-0.0007 ppm	31.6008 ppm	0.0286 ppm	0.0016 ppm	0.1006 ppm	0.0025 ppm	4.9347 ppm
Concentration RSD	27.0 %	0.5 %	4.6 %	50.7 %	0.5 %	1.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0017 ppm	0.0259 ppm	0.0447 ppm	0.0398 ppm	70.5586 ppm	2.6568 ppm	0.0386 ppm
Concentration per Run 1	0.0018 ppm	0.0262 ppm	0.0448 ppm	0.0405 ppm	70.7862 ppm	2.6735 ppm	0.0400 ppm
Concentration per Run 2	0.0018 ppm	0.0256 ppm	0.0447 ppm	0.0394 ppm	70.9139 ppm	2.6692 ppm	0.0380 ppm
Concentration per Run 3	0.0016 ppm	0.0258 ppm	0.0445 ppm	0.0396 ppm	69.9758 ppm	2.6276 ppm	0.0379 ppm
Concentration RSD	6.9 %	1.3 %	0.3 %	1.4 %	0.7 %	1.0 %	3.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.7696 ppm	1.3658 ppm	0.0036 ppm	0.2781 ppm	0.0386 ppm	0.0345 ppm	0.0006 ppm
Concentration per Run 1	11.8280 ppm	1.3711 ppm	0.0031 ppm	0.2762 ppm	0.0386 ppm	0.0347 ppm	-0.0002 ppm
Concentration per Run 2	11.7820 ppm	1.3698 ppm	0.0041 ppm	0.2797 ppm	0.0392 ppm	0.0351 ppm	0.0028 ppm
Concentration per Run 3	11.6987 ppm	1.3566 ppm	0.0036 ppm	0.2782 ppm	0.0379 ppm	0.0336 ppm	-0.0008 ppm
Concentration RSD	0.6 %	0.6 %	13.9 %	0.6 %	1.7 %	2.2 %	308.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	3.1742 ppm	0.0014 ppm	0.0414 ppm	1.8671 ppm	-0.0001 ppm	0.0795 ppm
Concentration per Run 1	-0.0011 ppm	3.2149 ppm	0.0013 ppm	0.0416 ppm	1.8742 ppm	-0.0021 ppm	0.0798 ppm
Concentration per Run 2	0.0028 ppm	3.1625 ppm	0.0017 ppm	0.0415 ppm	1.8718 ppm	0.0003 ppm	0.0793 ppm
Concentration per Run 3	0.0025 ppm	3.1454 ppm	0.0012 ppm	0.0411 ppm	1.8554 ppm	0.0015 ppm	0.0793 ppm
Concentration RSD	152.1 %	1.1 %	19.9 %	0.6 %	0.5 %	1,604.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1521 ppm	94.7253 %	100.0688 %	90.5333 %	104.1208 %	114.2079 %	107.9816 %
Concentration per Run 1	0.1527 ppm	94.6658 %	100.4887 %	90.5399 %	104.5703 %	114.3680 %	108.0474 %
Concentration per Run 2	0.1522 ppm	94.8016 %	100.1790 %	90.2193 %	103.9275 %	114.1379 %	107.6035 %
Concentration per Run 3	0.1515 ppm	94.7085 %	99.5386 %	90.8408 %	103.8645 %	114.1178 %	108.2940 %
Concentration RSD	0.4 %	0.1 %	0.5 %	0.3 %	0.4 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-33D2 WG1975335
Analysis started at: 9/26/2024 3:46:28 PM
Rack 2
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	36.1972 ppm	0.0143 ppm	0.0024 ppm	0.0809 ppm	0.0016 ppm	9.1563 ppm
Concentration per Run 1	-0.0004 ppm	35.8759 ppm	0.0147 ppm	0.0022 ppm	0.0804 ppm	0.0018 ppm	9.2176 ppm
Concentration per Run 2	-0.0005 ppm	36.7920 ppm	0.0157 ppm	0.0023 ppm	0.0827 ppm	0.0015 ppm	9.0686 ppm
Concentration per Run 3	-0.0005 ppm	35.9239 ppm	0.0125 ppm	0.0027 ppm	0.0798 ppm	0.0017 ppm	9.1827 ppm
Concentration RSD	13.5 %	1.4 %	11.6 %	10.2 %	1.9 %	8.8 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0322 ppm	0.0780 ppm	0.0721 ppm	85.9582 ppm	2.0609 ppm	0.0518 ppm
Concentration per Run 1	0.0004 ppm	0.0324 ppm	0.0785 ppm	0.0721 ppm	85.2166 ppm	2.0479 ppm	0.0507 ppm
Concentration per Run 2	0.0002 ppm	0.0325 ppm	0.0774 ppm	0.0726 ppm	87.5882 ppm	2.1229 ppm	0.0553 ppm
Concentration per Run 3	0.0002 ppm	0.0316 ppm	0.0780 ppm	0.0716 ppm	85.0697 ppm	2.0119 ppm	0.0494 ppm
Concentration RSD	35.2 %	1.5 %	0.7 %	0.7 %	1.6 %	2.7 %	6.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.4445 ppm	1.2323 ppm	0.0021 ppm	0.4442 ppm	0.0585 ppm	0.0422 ppm	-0.0027 ppm
Concentration per Run 1	20.6890 ppm	1.2252 ppm	0.0021 ppm	0.4424 ppm	0.0596 ppm	0.0423 ppm	-0.0043 ppm
Concentration per Run 2	20.3202 ppm	1.2429 ppm	0.0020 ppm	0.4619 ppm	0.0579 ppm	0.0422 ppm	-0.0018 ppm
Concentration per Run 3	20.3242 ppm	1.2288 ppm	0.0022 ppm	0.4284 ppm	0.0582 ppm	0.0420 ppm	-0.0020 ppm
Concentration RSD	1.0 %	0.8 %	5.2 %	3.8 %	1.6 %	0.4 %	51.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	1.5513 ppm	0.0026 ppm	0.0628 ppm	2.2442 ppm	-0.0001 ppm	0.1014 ppm
Concentration per Run 1	0.0015 ppm	1.5617 ppm	0.0035 ppm	0.0638 ppm	2.2710 ppm	0.0001 ppm	0.1028 ppm
Concentration per Run 2	0.0014 ppm	1.5450 ppm	0.0024 ppm	0.0615 ppm	2.2333 ppm	-0.0005 ppm	0.1009 ppm
Concentration per Run 3	0.0025 ppm	1.5471 ppm	0.0019 ppm	0.0631 ppm	2.2282 ppm	0.0001 ppm	0.1004 ppm
Concentration RSD	31.9 %	0.6 %	32.7 %	1.9 %	1.0 %	310.7 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2108 ppm	94.6400 %	103.3723 %	90.4107 %	101.3100 %	114.1118 %	105.1171 %
Concentration per Run 1	0.2131 ppm	93.4850 %	101.9490 %	90.8499 %	99.8727 %	113.5574 %	105.3719 %
Concentration per Run 2	0.2095 ppm	95.4135 %	105.7490 %	89.7444 %	102.2462 %	115.1166 %	104.6029 %
Concentration per Run 3	0.2099 ppm	95.0215 %	102.4187 %	90.6379 %	101.8112 %	113.6615 %	105.3765 %
Concentration RSD	0.9 %	1.1 %	2.0 %	0.6 %	1.2 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-35D2 WG1975335
Analysis started at: 9/26/2024 3:50:24 PM
Rack 2
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	31.5936 ppm	0.0152 ppm	0.0024 ppm	0.0852 ppm	0.0017 ppm	9.3567 ppm
Concentration per Run 1	0.0004 ppm	31.9053 ppm	0.0160 ppm	0.0038 ppm	0.0866 ppm	0.0016 ppm	9.2637 ppm
Concentration per Run 2	-0.0004 ppm	31.3610 ppm	0.0145 ppm	0.0012 ppm	0.0838 ppm	0.0018 ppm	9.3897 ppm
Concentration per Run 3	-0.0004 ppm	31.5146 ppm	0.0152 ppm	0.0021 ppm	0.0852 ppm	0.0018 ppm	9.4168 ppm
Concentration RSD	268.6 %	0.9 %	4.7 %	56.9 %	1.7 %	5.5 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0285 ppm	0.0583 ppm	0.0658 ppm	76.1186 ppm	2.1103 ppm	0.0422 ppm
Concentration per Run 1	0.0004 ppm	0.0292 ppm	0.0590 ppm	0.0676 ppm	76.9394 ppm	2.1957 ppm	0.0467 ppm
Concentration per Run 2	0.0003 ppm	0.0286 ppm	0.0585 ppm	0.0651 ppm	75.2928 ppm	2.0493 ppm	0.0402 ppm
Concentration per Run 3	0.0002 ppm	0.0278 ppm	0.0575 ppm	0.0648 ppm	76.1236 ppm	2.0858 ppm	0.0397 ppm
Concentration RSD	26.7 %	2.5 %	1.4 %	2.4 %	1.1 %	3.6 %	9.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.2337 ppm	1.0302 ppm	0.0007 ppm	0.3501 ppm	0.0555 ppm	0.0386 ppm	-0.0016 ppm
Concentration per Run 1	17.4390 ppm	1.0305 ppm	0.0009 ppm	0.3590 ppm	0.0557 ppm	0.0385 ppm	-0.0002 ppm
Concentration per Run 2	17.2229 ppm	1.0290 ppm	0.0008 ppm	0.3440 ppm	0.0553 ppm	0.0385 ppm	-0.0004 ppm
Concentration per Run 3	17.0393 ppm	1.0312 ppm	0.0005 ppm	0.3471 ppm	0.0556 ppm	0.0387 ppm	-0.0042 ppm
Concentration RSD	1.2 %	0.1 %	31.8 %	2.3 %	0.4 %	0.3 %	141.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	2.0091 ppm	0.0011 ppm	0.0633 ppm	2.0127 ppm	0.0007 ppm	0.1012 ppm
Concentration per Run 1	-0.0014 ppm	2.0463 ppm	0.0017 ppm	0.0618 ppm	2.0231 ppm	0.0013 ppm	0.1014 ppm
Concentration per Run 2	0.0027 ppm	2.0169 ppm	0.0009 ppm	0.0640 ppm	2.0184 ppm	0.0007 ppm	0.1019 ppm
Concentration per Run 3	0.0034 ppm	1.9641 ppm	0.0008 ppm	0.0641 ppm	1.9967 ppm	0.0002 ppm	0.1003 ppm
Concentration RSD	167.1 %	2.1 %	42.8 %	2.1 %	0.7 %	73.3 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1856 ppm	94.8763 %	102.5963 %	90.8288 %	102.2427 %	113.5319 %	105.4172 %
Concentration per Run 1	0.1903 ppm	94.2799 %	106.1843 %	91.2499 %	102.1434 %	116.4126 %	105.9554 %
Concentration per Run 2	0.1844 ppm	94.5026 %	100.6653 %	90.7954 %	101.3154 %	111.3572 %	105.3913 %
Concentration per Run 3	0.1820 ppm	95.8465 %	100.9393 %	90.4412 %	103.2692 %	112.8261 %	104.9048 %
Concentration RSD	2.3 %	0.9 %	3.0 %	0.4 %	1.0 %	2.3 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-37D2 WG1975335
Analysis started at: 9/26/2024 3:54:21 PM
Rack 2
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0077 ppm	62.9991 ppm	0.0500 ppm	0.0109 ppm	0.4412 ppm	0.0031 ppm	20.1734 ppm
Concentration per Run 1	0.0079 ppm	62.9249 ppm	0.0501 ppm	0.0105 ppm	0.4419 ppm	0.0030 ppm	20.1676 ppm
Concentration per Run 2	0.0074 ppm	62.9291 ppm	0.0502 ppm	0.0113 ppm	0.4399 ppm	0.0031 ppm	20.1366 ppm
Concentration per Run 3	0.0077 ppm	63.1435 ppm	0.0498 ppm	0.0109 ppm	0.4419 ppm	0.0031 ppm	20.2160 ppm
Concentration RSD	3.1 %	0.2 %	0.4 %	3.4 %	0.3 %	1.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.2334 ppm	0.0628 ppm	0.7036 ppm	0.6789 ppm	146.7512 ppm	7.1866 ppm	0.0847 ppm
Concentration per Run 1	0.2374 ppm	0.0635 ppm	0.7145 ppm	0.6874 ppm	146.8561 ppm	7.2140 ppm	0.0852 ppm
Concentration per Run 2	0.2322 ppm	0.0629 ppm	0.7005 ppm	0.6777 ppm	146.2558 ppm	7.1637 ppm	0.0839 ppm
Concentration per Run 3	0.2307 ppm	0.0621 ppm	0.6960 ppm	0.6715 ppm	147.1419 ppm	7.1822 ppm	0.0851 ppm
Concentration RSD	1.5 %	1.1 %	1.4 %	1.2 %	0.3 %	0.4 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	33.9944 ppm	1.7948 ppm	0.0055 ppm	3.7552 ppm	0.1395 ppm	0.6618 ppm	0.0041 ppm
Concentration per Run 1	34.4618 ppm	1.7929 ppm	0.0053 ppm	3.7676 ppm	0.1418 ppm	0.6622 ppm	0.0059 ppm
Concentration per Run 2	33.8969 ppm	1.7941 ppm	0.0053 ppm	3.7424 ppm	0.1389 ppm	0.6634 ppm	0.0042 ppm
Concentration per Run 3	33.6245 ppm	1.7974 ppm	0.0059 ppm	3.7557 ppm	0.1377 ppm	0.6598 ppm	0.0021 ppm
Concentration RSD	1.3 %	0.1 %	6.1 %	0.3 %	1.5 %	0.3 %	46.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	2.6520 ppm	0.2253 ppm	0.1398 ppm	3.7926 ppm	0.0018 ppm	0.3057 ppm
Concentration per Run 1	0.0048 ppm	2.6976 ppm	0.2286 ppm	0.1397 ppm	3.8341 ppm	0.0015 ppm	0.3092 ppm
Concentration per Run 2	0.0028 ppm	2.6426 ppm	0.2247 ppm	0.1399 ppm	3.7819 ppm	0.0014 ppm	0.3051 ppm
Concentration per Run 3	-0.0014 ppm	2.6159 ppm	0.2227 ppm	0.1398 ppm	3.7618 ppm	0.0023 ppm	0.3027 ppm
Concentration RSD	152.8 %	1.6 %	1.3 %	0.1 %	1.0 %	28.9 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.4402 ppm	95.4806 %	107.1789 %	86.5268 %	111.4622 %	127.5436 %	112.4934 %
Concentration per Run 1	1.4737 ppm	94.1407 %	107.2034 %	86.6229 %	110.4879 %	127.4593 %	112.6919 %
Concentration per Run 2	1.4305 ppm	95.7557 %	108.4167 %	86.2008 %	111.5789 %	129.2831 %	112.3914 %
Concentration per Run 3	1.4163 ppm	96.5454 %	105.9165 %	86.7566 %	112.3198 %	125.8883 %	112.3970 %
Concentration RSD	2.1 %	1.3 %	1.2 %	0.3 %	0.8 %	1.3 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 3:58:18 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5032 ppm	0.4949 ppm	0.4914 ppm	0.4942 ppm	0.5061 ppm	0.5178 ppm	0.5025 ppm
Concentration per Run 1	0.5074 ppm	0.4908 ppm	0.4906 ppm	0.4976 ppm	0.5052 ppm	0.5191 ppm	0.5022 ppm
Concentration per Run 2	0.5027 ppm	0.4944 ppm	0.4949 ppm	0.4925 ppm	0.5049 ppm	0.5186 ppm	0.5054 ppm
Concentration per Run 3	0.4994 ppm	0.4995 ppm	0.4887 ppm	0.4924 ppm	0.5083 ppm	0.5157 ppm	0.4999 ppm
Recovery Percentage 1	100.638 %	98.978 %	98.284 %	98.834 %	101.227 %	103.561 %	100.498 %
Concentration RSD	0.8 %	0.9 %	0.6 %	0.6 %	0.4 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5068 ppm	0.5087 ppm	0.4994 ppm	0.4928 ppm	0.5278 ppm	5.2744 ppm	0.4976 ppm
Concentration per Run 1	0.5137 ppm	0.5149 ppm	0.5042 ppm	0.4975 ppm	0.5272 ppm	5.2795 ppm	0.4990 ppm
Concentration per Run 2	0.5060 ppm	0.5073 ppm	0.4983 ppm	0.4916 ppm	0.5287 ppm	5.2375 ppm	0.4951 ppm
Concentration per Run 3	0.5007 ppm	0.5038 ppm	0.4957 ppm	0.4894 ppm	0.5274 ppm	5.3062 ppm	0.4988 ppm
Recovery Percentage 1	101.357 %	101.731 %	99.878 %	98.565 %	105.552 %	105.488 %	99.525 %
Concentration RSD	1.3 %	1.1 %	0.9 %	0.9 %	0.2 %	0.7 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4939 ppm	0.5040 ppm	0.5008 ppm	10.2226 ppm	0.5093 ppm	0.5018 ppm	0.4970 ppm
Concentration per Run 1	0.5020 ppm	0.5032 ppm	0.5028 ppm	10.1529 ppm	0.5149 ppm	0.4992 ppm	0.5019 ppm
Concentration per Run 2	0.4922 ppm	0.5047 ppm	0.4998 ppm	10.2701 ppm	0.5080 ppm	0.5025 ppm	0.4951 ppm
Concentration per Run 3	0.4875 ppm	0.5040 ppm	0.4998 ppm	10.2448 ppm	0.5051 ppm	0.5035 ppm	0.4941 ppm
Recovery Percentage 1	98.780 %	100.791 %	100.155 %	102.226 %	101.863 %	100.350 %	99.404 %
Concentration RSD	1.5 %	0.1 %	0.3 %	0.6 %	1.0 %	0.4 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5015 ppm	5.5883 ppm	0.4846 ppm	0.4865 ppm	0.5075 ppm	0.4981 ppm	0.5012 ppm
Concentration per Run 1	0.5002 ppm	5.6327 ppm	0.4884 ppm	0.4871 ppm	0.5122 ppm	0.4959 ppm	0.5044 ppm
Concentration per Run 2	0.5024 ppm	5.5768 ppm	0.4851 ppm	0.4868 ppm	0.5063 ppm	0.4989 ppm	0.5004 ppm
Concentration per Run 3	0.5019 ppm	5.5552 ppm	0.4803 ppm	0.4856 ppm	0.5040 ppm	0.4995 ppm	0.4988 ppm
Recovery Percentage 1	100.304 %	106.443 %	96.920 %	97.301 %	101.502 %	99.615 %	100.241 %
Concentration RSD	0.2 %	0.7 %	0.8 %	0.2 %	0.8 %	0.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5050 ppm	94.8073 %	102.5241 %	92.6500 %	91.6367 %	100.5820 %	92.9464 %
Concentration per Run 1	0.5135 ppm	93.4719 %	102.4516 %	93.1699 %	90.3891 %	100.2286 %	93.5038 %
Concentration per Run 2	0.5032 ppm	95.0307 %	102.5787 %	92.6036 %	91.8837 %	100.8849 %	92.7630 %
Concentration per Run 3	0.4982 ppm	95.9193 %	102.5420 %	92.1766 %	92.6374 %	100.6326 %	92.5725 %
Recovery Percentage 1	100.993 %						
Concentration RSD	1.5 %	1.3 %	0.1 %	0.5 %	1.2 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 4:02:15 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0004 ppm	-0.0002 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0038 ppm
Concentration per Run 1	0.0000 ppm	-0.0031 ppm	0.0000 ppm	0.0021 ppm	0.0000 ppm	0.0000 ppm	0.0039 ppm
Concentration per Run 2	-0.0001 ppm	-0.0018 ppm	-0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 3	-0.0002 ppm	0.0062 ppm	-0.0004 ppm	0.0022 ppm	0.0000 ppm	0.0000 ppm	0.0038 ppm
Recovery Percentage 1	-1.479 %	0.400 %	-5.773 %	5.400 %	0.022 %	0.369 %	3.761 %
Concentration RSD	110.4 %	1,254.6 %	123.3 %	53.6 %	2,370.8 %	200.3 %	4.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0013 ppm	0.0053 ppm	0.0012 ppm	0.0005 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0014 ppm	0.0049 ppm	-0.0108 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0014 ppm	0.0056 ppm	0.0250 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0011 ppm	0.0055 ppm	-0.0106 ppm	0.0019 ppm
Recovery Percentage 1	1.523 %	-0.423 %	0.521 %	13.028 %	10.676 %	0.048 %	5.191 %
Concentration RSD	43.9 %	257.0 %	552.1 %	12.2 %	7.3 %	1,715.1 %	237.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0017 ppm	0.0037 ppm	0.0003 ppm	-0.0003 ppm	-0.0019 ppm
Concentration per Run 1	0.0006 ppm	0.0001 ppm	0.0020 ppm	0.0071 ppm	0.0000 ppm	-0.0009 ppm	-0.0026 ppm
Concentration per Run 2	-0.0007 ppm	0.0002 ppm	0.0016 ppm	0.0036 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	0.0017 ppm	0.0003 ppm	0.0006 ppm	0.0001 ppm	-0.0032 ppm
Recovery Percentage 1	0.069 %	1.604 %	3.491 %	0.184 %	1.046 %	-3.118 %	-3.778 %
Concentration RSD	933.4 %	46.7 %	10.6 %	92.7 %	103.6 %	172.5 %	94.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	-0.0006 ppm	0.0002 ppm	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0008 ppm	-0.0014 ppm	0.0002 ppm	-0.0001 ppm	0.0005 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 2	0.0025 ppm	-0.0011 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0010 ppm	-0.0003 ppm
Concentration per Run 3	0.0030 ppm	0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm
Recovery Percentage 1	20.741 %	-0.115 %	0.379 %	-0.540 %	4.533 %	0.978 %	-0.279 %
Concentration RSD	56.7 %	203.6 %	15.1 %	64.6 %	46.1 %	383.1 %	719.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	92.8299 %	101.0317 %	92.8411 %	93.1977 %	101.1292 %	94.1224 %
Concentration per Run 1	0.0007 ppm	91.8951 %	101.6750 %	92.3487 %	92.8378 %	101.8524 %	93.8072 %
Concentration per Run 2	0.0006 ppm	93.1510 %	101.6713 %	93.4018 %	93.7560 %	101.4906 %	94.8429 %
Concentration per Run 3	0.0006 ppm	93.4436 %	99.7488 %	92.7729 %	92.9993 %	100.0445 %	93.7170 %
Recovery Percentage 1	12.844 %						
Concentration RSD	13.6 %	0.9 %	1.1 %	0.6 %	0.5 %	0.9 %	0.7 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976106-1 WG1976106
Analysis started at: 9/26/2024 4:08:10 PM
Rack 2
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0012 ppm	0.0002 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 1	-0.0005 ppm	-0.0048 ppm	-0.0007 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0060 ppm
Concentration per Run 2	-0.0001 ppm	0.0045 ppm	0.0007 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0051 ppm
Concentration per Run 3	0.0000 ppm	-0.0035 ppm	0.0006 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0074 ppm
Recovery Percentage 1	-2.828 %	-1.233 %	6.618 %	0.962 %	-1.013 %	0.701 %	6.163 %
Concentration RSD	143.5 %	408.5 %	371.8 %	197.6 %	42.8 %	17.8 %	18.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm	0.0008 ppm	0.0106 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0008 ppm	-0.0067 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	-0.0008 ppm	-0.0002 ppm	0.0004 ppm	0.0011 ppm	0.0236 ppm	0.0005 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0148 ppm	0.0009 ppm
Recovery Percentage 1	1.209 %	-1.656 %	0.096 %	2.572 %	1.503 %	0.423 %	6.524 %
Concentration RSD	95.3 %	123.9 %	1,487.4 %	48.0 %	50.0 %	147.4 %	32.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0006 ppm	0.0000 ppm	-0.0002 ppm	0.0029 ppm	0.0003 ppm	-0.0007 ppm	-0.0015 ppm
Concentration per Run 1	0.0008 ppm	0.0001 ppm	-0.0004 ppm	0.0067 ppm	0.0001 ppm	-0.0008 ppm	-0.0007 ppm
Concentration per Run 2	-0.0020 ppm	0.0000 ppm	-0.0002 ppm	0.0039 ppm	0.0003 ppm	-0.0007 ppm	-0.0030 ppm
Concentration per Run 3	-0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0018 ppm	0.0005 ppm	-0.0005 ppm	-0.0008 ppm
Recovery Percentage 1	-0.648 %	0.104 %	-0.407 %	0.146 %	1.236 %	-6.817 %	-3.019 %
Concentration RSD	213.3 %	412.2 %	87.9 %	147.9 %	56.9 %	24.8 %	87.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	-0.0012 ppm	-0.0005 ppm	-0.0001 ppm	0.0004 ppm	0.0007 ppm	0.0000 ppm
Concentration per Run 1	0.0029 ppm	-0.0007 ppm	-0.0011 ppm	-0.0001 ppm	0.0004 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 2	0.0022 ppm	-0.0023 ppm	-0.0008 ppm	0.0000 ppm	0.0003 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 3	0.0012 ppm	-0.0005 ppm	0.0003 ppm	-0.0001 ppm	0.0005 ppm	0.0008 ppm	-0.0001 ppm
Recovery Percentage 1	21.216 %	-0.235 %	-1.084 %	-0.715 %	3.953 %	3.501 %	-0.030 %
Concentration RSD	41.2 %	82.3 %	129.3 %	83.5 %	23.9 %	19.2 %	4,100.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	97.4686 %	100.3498 %	96.6435 %	103.3114 %	102.8119 %	100.6270 %
Concentration per Run 1	0.0007 ppm	96.6624 %	100.1318 %	96.0808 %	103.5817 %	102.6482 %	100.6534 %
Concentration per Run 2	0.0007 ppm	97.4190 %	99.7913 %	96.9512 %	103.5630 %	102.2299 %	100.5840 %
Concentration per Run 3	0.0005 ppm	98.3245 %	101.1263 %	96.8986 %	102.7896 %	103.5576 %	100.6436 %
Recovery Percentage 1	12.662 %						
Concentration RSD	12.0 %	0.9 %	0.7 %	0.5 %	0.4 %	0.7 %	0.0 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976106-2 WG1976106
Analysis started at: 9/26/2024 4:12:25 PM
Rack 2
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0527 ppm	2.0486 ppm	0.1199 ppm	1.0115 ppm	2.0611 ppm	0.0522 ppm	10.2534 ppm
Concentration per Run 1	0.0531 ppm	2.0457 ppm	0.1202 ppm	1.0270 ppm	2.0574 ppm	0.0521 ppm	10.2642 ppm
Concentration per Run 2	0.0530 ppm	2.0390 ppm	0.1193 ppm	1.0096 ppm	2.0592 ppm	0.0521 ppm	10.2343 ppm
Concentration per Run 3	0.0520 ppm	2.0611 ppm	0.1203 ppm	0.9979 ppm	2.0667 ppm	0.0522 ppm	10.2617 ppm
Concentration RSD	1.1 %	0.6 %	0.4 %	1.4 %	0.2 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0556 ppm	0.5212 ppm	0.2069 ppm	0.2662 ppm	1.0596 ppm	10.7258 ppm	-0.0011 ppm
Concentration per Run 1	0.0566 ppm	0.5308 ppm	0.2101 ppm	0.2700 ppm	1.0566 ppm	10.6771 ppm	0.0002 ppm
Concentration per Run 2	0.0556 ppm	0.5199 ppm	0.2065 ppm	0.2663 ppm	1.0537 ppm	10.7047 ppm	-0.0014 ppm
Concentration per Run 3	0.0545 ppm	0.5130 ppm	0.2041 ppm	0.2625 ppm	1.0684 ppm	10.7954 ppm	-0.0020 ppm
Concentration RSD	1.9 %	1.7 %	1.5 %	1.4 %	0.7 %	0.6 %	107.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.3206 ppm	0.5220 ppm	0.9645 ppm	10.5965 ppm	0.5268 ppm	0.5451 ppm	0.4512 ppm
Concentration per Run 1	10.5032 ppm	0.5224 ppm	0.9725 ppm	10.5391 ppm	0.5351 ppm	0.5458 ppm	0.4534 ppm
Concentration per Run 2	10.3240 ppm	0.5201 ppm	0.9630 ppm	10.6070 ppm	0.5270 ppm	0.5454 ppm	0.4502 ppm
Concentration per Run 3	10.1345 ppm	0.5233 ppm	0.9580 ppm	10.6433 ppm	0.5182 ppm	0.5440 ppm	0.4502 ppm
Concentration RSD	1.8 %	0.3 %	0.8 %	0.5 %	1.6 %	0.2 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1215 ppm	0.8192 ppm	0.9730 ppm	0.9798 ppm	1.0474 ppm	0.1223 ppm	0.5286 ppm
Concentration per Run 1	0.1207 ppm	0.8343 ppm	0.9902 ppm	0.9830 ppm	1.0639 ppm	0.1226 ppm	0.5377 ppm
Concentration per Run 2	0.1207 ppm	0.8173 ppm	0.9696 ppm	0.9778 ppm	1.0459 ppm	0.1220 ppm	0.5278 ppm
Concentration per Run 3	0.1230 ppm	0.8060 ppm	0.9593 ppm	0.9785 ppm	1.0322 ppm	0.1225 ppm	0.5205 ppm
Concentration RSD	1.1 %	1.7 %	1.6 %	0.3 %	1.5 %	0.3 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5232 ppm	93.2080 %	103.4146 %	92.0786 %	93.0333 %	102.1455 %	94.2714 %
Concentration per Run 1	0.5316 ppm	91.5172 %	103.1287 %	91.6661 %	91.9263 %	102.1943 %	94.1483 %
Concentration per Run 2	0.5220 ppm	93.2407 %	103.8609 %	91.9893 %	93.1864 %	102.4617 %	94.2633 %
Concentration per Run 3	0.5160 ppm	94.8662 %	103.2541 %	92.5803 %	93.9872 %	101.7804 %	94.4025 %
Concentration RSD	1.5 %	1.8 %	0.4 %	0.5 %	1.1 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453858-03 WG1976106
Analysis started at: 9/26/2024 4:16:23 PM
Rack 2
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	1.5593 ppm	0.0004 ppm	0.0534 ppm	0.0318 ppm	0.0017 ppm	13.6712 ppm
Concentration per Run 1	-0.0005 ppm	1.5596 ppm	0.0002 ppm	0.0540 ppm	0.0317 ppm	0.0017 ppm	13.7269 ppm
Concentration per Run 2	0.0000 ppm	1.5609 ppm	0.0008 ppm	0.0528 ppm	0.0319 ppm	0.0017 ppm	13.6272 ppm
Concentration per Run 3	-0.0002 ppm	1.5573 ppm	0.0002 ppm	0.0534 ppm	0.0317 ppm	0.0018 ppm	13.6595 ppm
Concentration RSD	111.8 %	0.1 %	86.5 %	1.1 %	0.3 %	2.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0168 ppm	0.0000 ppm	0.0021 ppm	1.7526 ppm	2.6978 ppm	0.0258 ppm
Concentration per Run 1	0.0003 ppm	0.0168 ppm	0.0002 ppm	0.0025 ppm	1.7543 ppm	2.7177 ppm	0.0267 ppm
Concentration per Run 2	0.0003 ppm	0.0170 ppm	0.0002 ppm	0.0021 ppm	1.7505 ppm	2.6602 ppm	0.0254 ppm
Concentration per Run 3	0.0003 ppm	0.0164 ppm	-0.0003 ppm	0.0018 ppm	1.7531 ppm	2.7157 ppm	0.0251 ppm
Concentration RSD	10.6 %	1.8 %	1,182.8 %	15.6 %	0.1 %	1.2 %	3.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.4020 ppm	0.5458 ppm	0.0042 ppm	16.6705 ppm	0.0219 ppm	0.0010 ppm	0.0012 ppm
Concentration per Run 1	6.5537 ppm	0.5460 ppm	0.0043 ppm	16.6539 ppm	0.0226 ppm	0.0007 ppm	0.0005 ppm
Concentration per Run 2	6.3630 ppm	0.5440 ppm	0.0041 ppm	16.7281 ppm	0.0221 ppm	0.0010 ppm	0.0024 ppm
Concentration per Run 3	6.2894 ppm	0.5475 ppm	0.0041 ppm	16.6296 ppm	0.0211 ppm	0.0014 ppm	0.0007 ppm
Concentration RSD	2.1 %	0.3 %	3.2 %	0.3 %	3.4 %	36.9 %	86.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	12.0470 ppm	0.0021 ppm	0.1171 ppm	0.0003 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 1	0.0014 ppm	12.2555 ppm	0.0029 ppm	0.1172 ppm	0.0004 ppm	0.0013 ppm	0.0001 ppm
Concentration per Run 2	-0.0009 ppm	12.0195 ppm	0.0017 ppm	0.1168 ppm	0.0003 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 3	-0.0003 ppm	11.8659 ppm	0.0018 ppm	0.1171 ppm	0.0003 ppm	-0.0013 ppm	0.0000 ppm
Concentration RSD	1,485.1 %	1.6 %	32.2 %	0.2 %	11.2 %	606.3 %	10.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0415 ppm	90.5031 %	103.3558 %	90.9305 %	93.9755 %	104.9501 %	95.1901 %
Concentration per Run 1	0.0423 ppm	88.4344 %	103.1322 %	91.2486 %	92.9491 %	105.0605 %	96.1226 %
Concentration per Run 2	0.0415 ppm	90.7768 %	104.4553 %	90.8149 %	94.1059 %	105.8836 %	94.9304 %
Concentration per Run 3	0.0406 ppm	92.2980 %	102.4797 %	90.7281 %	94.8716 %	103.9063 %	94.5172 %
Concentration RSD	2.1 %	2.2 %	1.0 %	0.3 %	1.0 %	0.9 %	0.9 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976106-3 WG1976106
Analysis started at: 9/26/2024 4:20:21 PM
Rack 2
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0537 ppm	3.6072 ppm	0.1246 ppm	1.0959 ppm	2.0972 ppm	0.0542 ppm	23.7913 ppm
Concentration per Run 1	0.0547 ppm	3.6331 ppm	0.1221 ppm	1.1155 ppm	2.0897 ppm	0.0542 ppm	23.7407 ppm
Concentration per Run 2	0.0535 ppm	3.5952 ppm	0.1266 ppm	1.0997 ppm	2.0954 ppm	0.0544 ppm	23.9033 ppm
Concentration per Run 3	0.0529 ppm	3.5934 ppm	0.1252 ppm	1.0725 ppm	2.1066 ppm	0.0541 ppm	23.7300 ppm
Concentration RSD	1.7 %	0.6 %	1.8 %	2.0 %	0.4 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0563 ppm	0.5413 ppm	0.2087 ppm	0.2714 ppm	2.8147 ppm	13.4966 ppm	0.0262 ppm
Concentration per Run 1	0.0573 ppm	0.5501 ppm	0.2133 ppm	0.2753 ppm	2.8092 ppm	13.4100 ppm	0.0272 ppm
Concentration per Run 2	0.0564 ppm	0.5409 ppm	0.2075 ppm	0.2718 ppm	2.8129 ppm	13.4806 ppm	0.0253 ppm
Concentration per Run 3	0.0551 ppm	0.5328 ppm	0.2052 ppm	0.2671 ppm	2.8219 ppm	13.5993 ppm	0.0260 ppm
Concentration RSD	1.9 %	1.6 %	2.0 %	1.5 %	0.2 %	0.7 %	3.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.8294 ppm	1.0636 ppm	0.9337 ppm	27.2718 ppm	0.5512 ppm	0.5561 ppm	0.4615 ppm
Concentration per Run 1	17.1757 ppm	1.0644 ppm	0.9418 ppm	27.3210 ppm	0.5634 ppm	0.5549 ppm	0.4623 ppm
Concentration per Run 2	16.7815 ppm	1.0667 ppm	0.9375 ppm	27.2204 ppm	0.5506 ppm	0.5619 ppm	0.4649 ppm
Concentration per Run 3	16.5309 ppm	1.0596 ppm	0.9217 ppm	27.2741 ppm	0.5396 ppm	0.5514 ppm	0.4574 ppm
Concentration RSD	1.9 %	0.3 %	1.1 %	0.2 %	2.2 %	1.0 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1309 ppm	12.7655 ppm	0.9728 ppm	1.0992 ppm	1.0652 ppm	0.1256 ppm	0.5355 ppm
Concentration per Run 1	0.1331 ppm	13.0219 ppm	0.9892 ppm	1.1004 ppm	1.0867 ppm	0.1257 ppm	0.5440 ppm
Concentration per Run 2	0.1313 ppm	12.7397 ppm	0.9744 ppm	1.1007 ppm	1.0595 ppm	0.1259 ppm	0.5350 ppm
Concentration per Run 3	0.1283 ppm	12.5349 ppm	0.9548 ppm	1.0966 ppm	1.0494 ppm	0.1253 ppm	0.5276 ppm
Concentration RSD	1.9 %	1.9 %	1.8 %	0.2 %	1.8 %	0.3 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5716 ppm	90.6966 %	103.3193 %	89.4765 %	92.6746 %	103.2662 %	93.9787 %
Concentration per Run 1	0.5823 ppm	89.1839 %	103.6890 %	89.2531 %	92.1825 %	103.9571 %	94.1471 %
Concentration per Run 2	0.5739 ppm	90.6386 %	103.4720 %	89.2753 %	92.4222 %	103.5071 %	93.8837 %
Concentration per Run 3	0.5585 ppm	92.2674 %	102.7968 %	89.9011 %	93.4190 %	102.3345 %	93.9052 %
Concentration RSD	2.1 %	1.7 %	0.5 %	0.4 %	0.7 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976106-4 WG1976106
Analysis started at: 9/26/2024 4:24:19 PM
Rack 2
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	1.6057 ppm	-0.0003 ppm	0.0544 ppm	0.0329 ppm	0.0018 ppm	14.1426 ppm
Concentration per Run 1	0.0000 ppm	1.6062 ppm	-0.0019 ppm	0.0565 ppm	0.0329 ppm	0.0018 ppm	14.1613 ppm
Concentration per Run 2	-0.0006 ppm	1.6097 ppm	0.0003 ppm	0.0540 ppm	0.0329 ppm	0.0018 ppm	14.1306 ppm
Concentration per Run 3	-0.0001 ppm	1.6013 ppm	0.0007 ppm	0.0527 ppm	0.0330 ppm	0.0018 ppm	14.1358 ppm
Concentration RSD	150.0 %	0.3 %	469.6 %	3.5 %	0.1 %	1.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0178 ppm	-0.0001 ppm	0.0020 ppm	1.8183 ppm	2.7858 ppm	0.0270 ppm
Concentration per Run 1	0.0002 ppm	0.0180 ppm	-0.0001 ppm	0.0022 ppm	1.8180 ppm	2.7869 ppm	0.0278 ppm
Concentration per Run 2	0.0003 ppm	0.0175 ppm	-0.0002 ppm	0.0021 ppm	1.8144 ppm	2.7995 ppm	0.0265 ppm
Concentration per Run 3	0.0003 ppm	0.0178 ppm	-0.0001 ppm	0.0018 ppm	1.8225 ppm	2.7710 ppm	0.0266 ppm
Concentration RSD	7.2 %	1.6 %	49.5 %	10.2 %	0.2 %	0.5 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.6252 ppm	0.5629 ppm	0.0056 ppm	17.2546 ppm	0.0226 ppm	0.0007 ppm	-0.0006 ppm
Concentration per Run 1	6.7698 ppm	0.5631 ppm	0.0056 ppm	17.2065 ppm	0.0232 ppm	0.0005 ppm	-0.0006 ppm
Concentration per Run 2	6.5917 ppm	0.5620 ppm	0.0056 ppm	17.2451 ppm	0.0226 ppm	0.0001 ppm	-0.0006 ppm
Concentration per Run 3	6.5141 ppm	0.5636 ppm	0.0055 ppm	17.3121 ppm	0.0220 ppm	0.0014 ppm	-0.0007 ppm
Concentration RSD	2.0 %	0.1 %	0.8 %	0.3 %	2.7 %	95.6 %	10.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	12.4742 ppm	0.0039 ppm	0.1205 ppm	0.0005 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.0005 ppm	12.6572 ppm	0.0040 ppm	0.1211 ppm	0.0007 ppm	0.0007 ppm	0.0004 ppm
Concentration per Run 2	0.0038 ppm	12.4639 ppm	0.0040 ppm	0.1200 ppm	0.0004 ppm	-0.0013 ppm	0.0002 ppm
Concentration per Run 3	0.0012 ppm	12.3014 ppm	0.0037 ppm	0.1205 ppm	0.0006 ppm	0.0003 ppm	0.0001 ppm
Concentration RSD	96.0 %	1.4 %	4.7 %	0.5 %	29.8 %	1,069.1 %	48.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0430 ppm	90.6723 %	103.5360 %	91.2851 %	94.4482 %	104.8846 %	95.7544 %
Concentration per Run 1	0.0440 ppm	89.0495 %	102.8065 %	90.9857 %	93.8963 %	104.5276 %	95.7188 %
Concentration per Run 2	0.0427 ppm	91.1562 %	103.9116 %	91.3235 %	94.6730 %	105.4032 %	96.0085 %
Concentration per Run 3	0.0422 ppm	91.8113 %	103.8898 %	91.5462 %	94.7752 %	104.7229 %	95.5360 %
Concentration RSD	2.1 %	1.6 %	0.6 %	0.3 %	0.5 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976106-5 WG1976106
Analysis started at: 9/26/2024 4:28:16 PM
Rack 2
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0518 ppm	3.4589 ppm	0.1215 ppm	1.0719 ppm	2.0175 ppm	0.0523 ppm	22.8887 ppm
Concentration per Run 1	0.0533 ppm	3.4589 ppm	0.1223 ppm	1.1039 ppm	2.0090 ppm	0.0524 ppm	22.9331 ppm
Concentration per Run 2	0.0517 ppm	3.4448 ppm	0.1194 ppm	1.0678 ppm	2.0209 ppm	0.0521 ppm	22.8091 ppm
Concentration per Run 3	0.0504 ppm	3.4730 ppm	0.1229 ppm	1.0439 ppm	2.0227 ppm	0.0523 ppm	22.9237 ppm
Concentration RSD	2.8 %	0.4 %	1.6 %	2.8 %	0.4 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0540 ppm	0.5253 ppm	0.2020 ppm	0.2635 ppm	2.6919 ppm	13.0497 ppm	0.0251 ppm
Concentration per Run 1	0.0560 ppm	0.5435 ppm	0.2087 ppm	0.2715 ppm	2.6676 ppm	13.0132 ppm	0.0254 ppm
Concentration per Run 2	0.0538 ppm	0.5229 ppm	0.2018 ppm	0.2626 ppm	2.6785 ppm	13.0554 ppm	0.0259 ppm
Concentration per Run 3	0.0523 ppm	0.5096 ppm	0.1957 ppm	0.2564 ppm	2.7295 ppm	13.0805 ppm	0.0241 ppm
Concentration RSD	3.4 %	3.3 %	3.2 %	2.9 %	1.2 %	0.3 %	3.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.3591 ppm	1.0233 ppm	0.9114 ppm	26.2743 ppm	0.5344 ppm	0.5370 ppm	0.3821 ppm
Concentration per Run 1	16.9260 ppm	1.0237 ppm	0.9355 ppm	26.0769 ppm	0.5526 ppm	0.5373 ppm	0.3873 ppm
Concentration per Run 2	16.2873 ppm	1.0180 ppm	0.9067 ppm	26.3958 ppm	0.5316 ppm	0.5348 ppm	0.3811 ppm
Concentration per Run 3	15.8640 ppm	1.0283 ppm	0.8920 ppm	26.3501 ppm	0.5189 ppm	0.5388 ppm	0.3779 ppm
Concentration RSD	3.3 %	0.5 %	2.4 %	0.7 %	3.2 %	0.4 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1265 ppm	12.0937 ppm	0.9671 ppm	1.0736 ppm	1.0420 ppm	0.1206 ppm	0.5204 ppm
Concentration per Run 1	0.1271 ppm	12.4134 ppm	0.9940 ppm	1.0813 ppm	1.0738 ppm	0.1209 ppm	0.5367 ppm
Concentration per Run 2	0.1255 ppm	12.0516 ppm	0.9655 ppm	1.0688 ppm	1.0379 ppm	0.1214 ppm	0.5180 ppm
Concentration per Run 3	0.1269 ppm	11.8161 ppm	0.9417 ppm	1.0706 ppm	1.0143 ppm	0.1196 ppm	0.5065 ppm
Concentration RSD	0.7 %	2.5 %	2.7 %	0.6 %	2.9 %	0.8 %	2.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5528 ppm	90.6653 %	103.9459 %	89.5658 %	93.1959 %	104.4024 %	94.2537 %
Concentration per Run 1	0.5721 ppm	88.1040 %	102.9700 %	89.7900 %	91.7769 %	103.5569 %	94.8970 %
Concentration per Run 2	0.5530 ppm	90.6040 %	105.6150 %	89.5179 %	92.9991 %	105.6995 %	94.1357 %
Concentration per Run 3	0.5331 ppm	93.2879 %	103.2526 %	89.3896 %	94.8115 %	103.9508 %	93.7284 %
Concentration RSD	3.5 %	2.9 %	1.4 %	0.2 %	1.6 %	1.1 %	0.6 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976106-6D5 WG1976106
Analysis started at: 9/26/2024 4:32:13 PM
Rack 2
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.3029 ppm	0.0001 ppm	0.0117 ppm	0.0061 ppm	0.0003 ppm	2.6256 ppm
Concentration per Run 1	-0.0001 ppm	0.3009 ppm	-0.0002 ppm	0.0125 ppm	0.0060 ppm	0.0003 ppm	2.6179 ppm
Concentration per Run 2	-0.0002 ppm	0.3053 ppm	0.0015 ppm	0.0120 ppm	0.0060 ppm	0.0004 ppm	2.6300 ppm
Concentration per Run 3	-0.0001 ppm	0.3024 ppm	-0.0009 ppm	0.0104 ppm	0.0062 ppm	0.0003 ppm	2.6289 ppm
Concentration RSD	82.5 %	0.7 %	1,026.9 %	9.3 %	1.8 %	7.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0033 ppm	0.0000 ppm	0.0014 ppm	0.3436 ppm	0.5340 ppm	0.0069 ppm
Concentration per Run 1	0.0001 ppm	0.0034 ppm	-0.0002 ppm	0.0019 ppm	0.3417 ppm	0.5304 ppm	0.0065 ppm
Concentration per Run 2	0.0001 ppm	0.0034 ppm	0.0002 ppm	0.0014 ppm	0.3463 ppm	0.5536 ppm	0.0075 ppm
Concentration per Run 3	0.0001 ppm	0.0030 ppm	0.0001 ppm	0.0011 ppm	0.3429 ppm	0.5180 ppm	0.0067 ppm
Concentration RSD	5.0 %	8.3 %	4,739.8 %	27.0 %	0.7 %	3.4 %	8.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.2058 ppm	0.1038 ppm	0.0067 ppm	3.2487 ppm	0.0043 ppm	-0.0002 ppm	0.0100 ppm
Concentration per Run 1	1.2259 ppm	0.1042 ppm	0.0069 ppm	3.2490 ppm	0.0048 ppm	0.0002 ppm	0.0104 ppm
Concentration per Run 2	1.2049 ppm	0.1036 ppm	0.0065 ppm	3.2322 ppm	0.0043 ppm	-0.0012 ppm	0.0089 ppm
Concentration per Run 3	1.1866 ppm	0.1036 ppm	0.0068 ppm	3.2649 ppm	0.0040 ppm	0.0004 ppm	0.0106 ppm
Concentration RSD	1.6 %	0.3 %	3.2 %	0.5 %	9.2 %	425.0 %	9.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	2.2136 ppm	0.0112 ppm	0.0223 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0013 ppm	2.2434 ppm	0.0111 ppm	0.0222 ppm	0.0007 ppm	0.0009 ppm	-0.0002 ppm
Concentration per Run 2	-0.0002 ppm	2.2115 ppm	0.0118 ppm	0.0224 ppm	0.0006 ppm	-0.0010 ppm	0.0002 ppm
Concentration per Run 3	0.0015 ppm	2.1858 ppm	0.0108 ppm	0.0223 ppm	0.0007 ppm	0.0005 ppm	0.0000 ppm
Concentration RSD	107.6 %	1.3 %	4.4 %	0.4 %	10.5 %	732.0 %	14,611.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0081 ppm	92.5544 %	103.3922 %	93.6797 %	92.5749 %	102.3882 %	95.0690 %
Concentration per Run 1	0.0084 ppm	91.0747 %	102.4181 %	93.8277 %	91.5901 %	101.3854 %	95.6934 %
Concentration per Run 2	0.0081 ppm	92.7685 %	103.8115 %	93.4169 %	92.7178 %	103.0245 %	94.3510 %
Concentration per Run 3	0.0079 ppm	93.8200 %	103.9471 %	93.7944 %	93.4168 %	102.7546 %	95.1624 %
Concentration RSD	3.6 %	1.5 %	0.8 %	0.2 %	1.0 %	0.9 %	0.7 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453858-01 WG1976106
Analysis started at: 9/26/2024 4:36:10 PM
Rack 2
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	11.6807 ppm	0.0013 ppm	0.1449 ppm	0.0135 ppm	0.0081 ppm	52.7548 ppm
Concentration per Run 1	-0.0001 ppm	11.6400 ppm	0.0024 ppm	0.1497 ppm	0.0134 ppm	0.0081 ppm	52.5459 ppm
Concentration per Run 2	0.0003 ppm	11.6885 ppm	0.0005 ppm	0.1443 ppm	0.0135 ppm	0.0081 ppm	52.7274 ppm
Concentration per Run 3	0.0001 ppm	11.7136 ppm	0.0011 ppm	0.1407 ppm	0.0135 ppm	0.0081 ppm	52.9911 ppm
Concentration RSD	310.1 %	0.3 %	74.4 %	3.1 %	0.6 %	0.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0024 ppm	0.1143 ppm	-0.0001 ppm	0.0215 ppm	41.1642 ppm	5.7178 ppm	0.1156 ppm
Concentration per Run 1	0.0025 ppm	0.1167 ppm	-0.0001 ppm	0.0219 ppm	40.8575 ppm	5.6987 ppm	0.1149 ppm
Concentration per Run 2	0.0024 ppm	0.1136 ppm	0.0000 ppm	0.0214 ppm	41.3005 ppm	5.7234 ppm	0.1170 ppm
Concentration per Run 3	0.0023 ppm	0.1126 ppm	-0.0001 ppm	0.0211 ppm	41.3347 ppm	5.7313 ppm	0.1148 ppm
Concentration RSD	5.0 %	1.9 %	84.7 %	1.8 %	0.6 %	0.3 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.7642 ppm	3.7136 ppm	0.0005 ppm	37.4597 ppm	0.1670 ppm	0.0013 ppm	0.0002 ppm
Concentration per Run 1	25.2532 ppm	3.6991 ppm	0.0006 ppm	37.3132 ppm	0.1708 ppm	0.0011 ppm	-0.0001 ppm
Concentration per Run 2	24.7132 ppm	3.7110 ppm	0.0005 ppm	37.5029 ppm	0.1666 ppm	0.0018 ppm	0.0009 ppm
Concentration per Run 3	24.3261 ppm	3.7307 ppm	0.0005 ppm	37.5629 ppm	0.1637 ppm	0.0010 ppm	-0.0002 ppm
Concentration RSD	1.9 %	0.4 %	11.8 %	0.3 %	2.2 %	34.0 %	309.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	21.2777 [SIC 100]	0.0005 ppm	0.6277 ppm	0.0001 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 1	0.0013 ppm	21.7038 ppm	0.0006 ppm	0.6261 ppm	0.0000 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 2	0.0016 ppm	21.2507 ppm	0.0009 ppm	0.6256 ppm	0.0001 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 3	0.0018 ppm	20.8787 ppm	-0.0001 ppm	0.6312 ppm	0.0003 ppm	-0.0024 ppm	0.0000 ppm
Concentration RSD	16.0 %	1.9 %	105.1 %	0.5 %	118.6 %	191.9 %	5,344.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4188 ppm	91.8499 %	104.6022 %	90.8870 %	100.7920 %	114.5198 %	103.4508 %
Concentration per Run 1	0.4259 ppm	90.3464 %	104.9206 %	90.2901 %	100.0874 %	114.9107 %	102.9079 %
Concentration per Run 2	0.4189 ppm	92.0582 %	104.5304 %	91.1431 %	100.8679 %	114.0609 %	103.8249 %
Concentration per Run 3	0.4115 ppm	93.1452 %	104.3555 %	91.2279 %	101.4205 %	114.5879 %	103.6198 %
Concentration RSD	1.7 %	1.5 %	0.3 %	0.6 %	0.7 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453858-02 WG1976106
Analysis started at: 9/26/2024 4:40:07 PM
Rack 2
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0235 ppm	0.0006 ppm	0.1806 ppm	0.0379 ppm	0.0013 ppm	385.4822 ppm
Concentration per Run 1	-0.0006 ppm	0.0229 ppm	0.0012 ppm	0.1852 ppm	0.0380 ppm	0.0013 ppm	387.2325 ppm
Concentration per Run 2	-0.0006 ppm	0.0265 ppm	-0.0005 ppm	0.1809 ppm	0.0379 ppm	0.0013 ppm	383.6077 ppm
Concentration per Run 3	-0.0005 ppm	0.0212 ppm	0.0012 ppm	0.1758 ppm	0.0378 ppm	0.0013 ppm	385.6063 ppm
Concentration RSD	15.7 %	11.5 %	162.3 %	2.6 %	0.2 %	2.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0710 ppm	-0.0007 ppm	0.0054 ppm	0.7396 ppm	21.8839 ppm	0.0644 ppm
Concentration per Run 1	0.0003 ppm	0.0723 ppm	-0.0009 ppm	0.0057 ppm	0.7419 ppm	21.9190 ppm	0.0634 ppm
Concentration per Run 2	0.0002 ppm	0.0708 ppm	-0.0004 ppm	0.0055 ppm	0.7349 ppm	21.7571 ppm	0.0648 ppm
Concentration per Run 3	0.0003 ppm	0.0698 ppm	-0.0007 ppm	0.0052 ppm	0.7418 ppm	21.9756 ppm	0.0649 ppm
Concentration RSD	21.3 %	1.7 %	34.0 %	4.8 %	0.5 %	0.5 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	232.5467 ppm	7.0845 ppm	0.0005 ppm	110.0080 ppm	0.5986 ppm	0.0005 ppm	-0.0014 ppm
Concentration per Run 1	237.5542 ppm	7.0797 ppm	0.0004 ppm	109.5024 ppm	0.6090 ppm	-0.0003 ppm	-0.0025 ppm
Concentration per Run 2	231.8687 ppm	7.0726 ppm	0.0003 ppm	109.6905 ppm	0.5986 ppm	0.0015 ppm	0.0012 ppm
Concentration per Run 3	228.2171 ppm	7.1012 ppm	0.0008 ppm	110.8310 ppm	0.5883 ppm	0.0002 ppm	-0.0030 ppm
Concentration RSD	2.0 %	0.2 %	45.2 %	0.7 %	1.7 %	193.8 %	161.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	24.6878 [SIC 100]	-0.0003 ppm	2.3533 ppm	-0.0003 ppm	-0.0034 ppm	0.0000 ppm
Concentration per Run 1	0.0006 ppm	25.1107 ppm	-0.0003 ppm	2.3563 ppm	-0.0003 ppm	-0.0029 ppm	-0.0002 ppm
Concentration per Run 2	0.0001 ppm	24.6660 ppm	-0.0010 ppm	2.3522 ppm	-0.0001 ppm	-0.0039 ppm	0.0000 ppm
Concentration per Run 3	-0.0023 ppm	24.2866 ppm	0.0004 ppm	2.3514 ppm	-0.0003 ppm	-0.0035 ppm	0.0001 ppm
Concentration RSD	281.3 %	1.7 %	262.2 %	0.1 %	37.8 %	15.3 %	38,481.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1607 ppm	86.1038 %	102.9084 %	80.7576 %	93.8405 %	110.7592 %	93.3231 %
Concentration per Run 1	0.1640 ppm	84.5272 %	101.7476 %	80.6079 %	93.0525 %	110.1681 %	93.4704 %
Concentration per Run 2	0.1613 ppm	86.4759 %	103.7358 %	80.9940 %	94.0467 %	111.2880 %	93.5868 %
Concentration per Run 3	0.1569 ppm	87.3084 %	103.2417 %	80.6708 %	94.4222 %	110.8214 %	92.9121 %
Concentration RSD	2.3 %	1.7 %	1.0 %	0.3 %	0.8 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454035-39D2 WG1975335
Analysis started at: 9/26/2024 4:44:04 PM
Rack 2
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0021 ppm	198.9160 ppm	0.1362 ppm	0.0636 ppm	0.7378 ppm	0.0093 ppm	32.7842 ppm
Concentration per Run 1	-0.0017 ppm	199.4382 ppm	0.1334 ppm	0.0640 ppm	0.7433 ppm	0.0093 ppm	32.8696 ppm
Concentration per Run 2	-0.0029 ppm	198.8124 ppm	0.1380 ppm	0.0639 ppm	0.7348 ppm	0.0092 ppm	32.8127 ppm
Concentration per Run 3	-0.0018 ppm	198.4973 ppm	0.1371 ppm	0.0629 ppm	0.7353 ppm	0.0094 ppm	32.6704 ppm
Concentration RSD	31.2 %	0.2 %	1.8 %	0.9 %	0.6 %	1.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.1316 ppm	0.4626 ppm	0.2837 ppm	293.2393 ppm	61.6911 ppm	0.3956 ppm
Concentration per Run 1	0.0003 ppm	0.1338 ppm	0.4667 ppm	0.2875 ppm	295.2200 ppm	62.0114 ppm	0.3983 ppm
Concentration per Run 2	0.0001 ppm	0.1309 ppm	0.4629 ppm	0.2826 ppm	291.7660 ppm	61.5663 ppm	0.3942 ppm
Concentration per Run 3	0.0003 ppm	0.1301 ppm	0.4582 ppm	0.2810 ppm	292.7320 ppm	61.4956 ppm	0.3943 ppm
Concentration RSD	54.6 %	1.5 %	0.9 %	1.2 %	0.6 %	0.5 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	105.6821 ppm	5.3961 ppm	0.0059 ppm	16.7387 ppm	0.3253 ppm	0.1251 ppm	0.0036 ppm
Concentration per Run 1	106.7241 ppm	5.4165 ppm	0.0058 ppm	16.8040 ppm	0.3288 ppm	0.1241 ppm	-0.0001 ppm
Concentration per Run 2	105.7161 ppm	5.3880 ppm	0.0060 ppm	16.7775 ppm	0.3263 ppm	0.1250 ppm	0.0009 ppm
Concentration per Run 3	104.6062 ppm	5.3837 ppm	0.0060 ppm	16.6344 ppm	0.3209 ppm	0.1261 ppm	0.0098 ppm
Concentration RSD	1.0 %	0.3 %	1.5 %	0.5 %	1.2 %	0.8 %	153.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0028 ppm	1.0133 ppm	0.0112 ppm	0.2035 ppm	12.6044 ppm	0.0089 ppm	0.5574 ppm
Concentration per Run 1	-0.0051 ppm	1.0210 ppm	0.0114 ppm	0.2048 ppm	12.6425 ppm	0.0083 ppm	0.5588 ppm
Concentration per Run 2	-0.0030 ppm	1.0168 ppm	0.0109 ppm	0.2025 ppm	12.5975 ppm	0.0090 ppm	0.5608 ppm
Concentration per Run 3	-0.0003 ppm	1.0020 ppm	0.0114 ppm	0.2032 ppm	12.5733 ppm	0.0094 ppm	0.5525 ppm
Concentration RSD	84.8 %	1.0 %	2.7 %	0.6 %	0.3 %	6.5 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6993 ppm	100.7230 %	110.6706 %	80.5191 %	121.9361 %	139.9544 %	127.1860 %
Concentration per Run 1	0.7093 ppm	100.0427 %	110.1979 %	80.8585 %	121.7011 %	139.8177 %	127.4122 %
Concentration per Run 2	0.6974 ppm	100.1912 %	111.8292 %	80.6598 %	120.7165 %	141.0250 %	127.3403 %
Concentration per Run 3	0.6912 ppm	101.9351 %	109.9848 %	80.0390 %	123.3905 %	139.0206 %	126.8054 %
Concentration RSD	1.3 %	1.0 %	0.9 %	0.5 %	1.1 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 4:48:02 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5063 ppm	0.4945 ppm	0.4884 ppm	0.4988 ppm	0.5078 ppm	0.5201 ppm	0.5010 ppm
Concentration per Run 1	0.5126 ppm	0.4946 ppm	0.4881 ppm	0.5022 ppm	0.5072 ppm	0.5188 ppm	0.4988 ppm
Concentration per Run 2	0.5053 ppm	0.4911 ppm	0.4893 ppm	0.4991 ppm	0.5061 ppm	0.5229 ppm	0.5040 ppm
Concentration per Run 3	0.5010 ppm	0.4977 ppm	0.4879 ppm	0.4951 ppm	0.5101 ppm	0.5185 ppm	0.5002 ppm
Recovery Percentage 1	101.262 %	98.898 %	97.680 %	99.762 %	101.557 %	104.017 %	100.206 %
Concentration RSD	1.2 %	0.7 %	0.2 %	0.7 %	0.4 %	0.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5111 ppm	0.5132 ppm	0.5016 ppm	0.4983 ppm	0.5334 ppm	5.3172 ppm	0.4997 ppm
Concentration per Run 1	0.5162 ppm	0.5189 ppm	0.5060 ppm	0.5055 ppm	0.5385 ppm	5.3569 ppm	0.5011 ppm
Concentration per Run 2	0.5102 ppm	0.5119 ppm	0.5026 ppm	0.4963 ppm	0.5301 ppm	5.2803 ppm	0.4962 ppm
Concentration per Run 3	0.5067 ppm	0.5088 ppm	0.4962 ppm	0.4931 ppm	0.5316 ppm	5.3145 ppm	0.5017 ppm
Recovery Percentage 1	102.212 %	102.641 %	100.326 %	99.659 %	106.681 %	106.345 %	99.934 %
Concentration RSD	0.9 %	1.0 %	1.0 %	1.3 %	0.8 %	0.7 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4970 ppm	0.5052 ppm	0.5030 ppm	10.2421 ppm	0.5119 ppm	0.5009 ppm	0.5044 ppm
Concentration per Run 1	0.5039 ppm	0.5046 ppm	0.5055 ppm	10.1864 ppm	0.5174 ppm	0.5002 ppm	0.5054 ppm
Concentration per Run 2	0.4961 ppm	0.5049 ppm	0.5023 ppm	10.2774 ppm	0.5127 ppm	0.5024 ppm	0.5053 ppm
Concentration per Run 3	0.4911 ppm	0.5061 ppm	0.5011 ppm	10.2624 ppm	0.5055 ppm	0.4999 ppm	0.5025 ppm
Recovery Percentage 1	99.410 %	101.043 %	100.597 %	102.421 %	102.375 %	100.171 %	100.881 %
Concentration RSD	1.3 %	0.2 %	0.4 %	0.5 %	1.2 %	0.3 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4999 ppm	5.6339 ppm	0.4874 ppm	0.4894 ppm	0.5083 ppm	0.4998 ppm	0.5044 ppm
Concentration per Run 1	0.5011 ppm	5.6787 ppm	0.4914 ppm	0.4878 ppm	0.5137 ppm	0.5001 ppm	0.5108 ppm
Concentration per Run 2	0.5007 ppm	5.6204 ppm	0.4873 ppm	0.4911 ppm	0.5102 ppm	0.4990 ppm	0.5037 ppm
Concentration per Run 3	0.4979 ppm	5.6027 ppm	0.4836 ppm	0.4892 ppm	0.5011 ppm	0.5002 ppm	0.4988 ppm
Recovery Percentage 1	99.986 %	107.313 %	97.483 %	97.872 %	101.665 %	99.957 %	100.881 %
Concentration RSD	0.4 %	0.7 %	0.8 %	0.3 %	1.3 %	0.1 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5071 ppm	94.6345 %	102.9977 %	93.3085 %	92.0326 %	100.9709 %	93.6783 %
Concentration per Run 1	0.5114 ppm	93.7399 %	103.0571 %	93.4733 %	91.2902 %	101.1405 %	93.9280 %
Concentration per Run 2	0.5075 ppm	94.7597 %	102.2925 %	93.2237 %	92.1716 %	100.2597 %	93.7107 %
Concentration per Run 3	0.5023 ppm	95.4039 %	103.6435 %	93.2284 %	92.6361 %	101.5124 %	93.3962 %
Recovery Percentage 1	101.415 %						
Concentration RSD	0.9 %	0.9 %	0.7 %	0.2 %	0.7 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 4:52:00 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0051 ppm	0.0002 ppm	0.0016 ppm	-0.0001 ppm	0.0000 ppm	0.0080 ppm
Concentration per Run 1	0.0002 ppm	-0.0023 ppm	-0.0002 ppm	0.0020 ppm	0.0000 ppm	0.0000 ppm	0.0078 ppm
Concentration per Run 2	0.0003 ppm	-0.0075 ppm	0.0016 ppm	0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0078 ppm
Concentration per Run 3	0.0000 ppm	-0.0054 ppm	-0.0007 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0084 ppm
Recovery Percentage 1	2.494 %	-5.078 %	8.001 %	5.403 %	-0.569 %	0.516 %	8.000 %
Concentration RSD	107.3 %	52.1 %	515.0 %	34.2 %	60.0 %	25.2 %	4.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0014 ppm	0.0051 ppm	0.0226 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0013 ppm	0.0054 ppm	0.0009 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0014 ppm	0.0048 ppm	0.0390 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0014 ppm	0.0051 ppm	0.0277 ppm	0.0014 ppm
Recovery Percentage 1	0.861 %	-0.310 %	1.366 %	13.615 %	10.244 %	0.902 %	7.794 %
Concentration RSD	66.2 %	262.1 %	141.4 %	7.2 %	6.3 %	86.8 %	94.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0007 ppm	0.0000 ppm	0.0019 ppm	0.0067 ppm	0.0003 ppm	-0.0007 ppm	-0.0013 ppm
Concentration per Run 1	-0.0009 ppm	0.0002 ppm	0.0021 ppm	0.0104 ppm	0.0005 ppm	-0.0011 ppm	-0.0005 ppm
Concentration per Run 2	0.0015 ppm	-0.0001 ppm	0.0018 ppm	0.0060 ppm	0.0002 ppm	0.0001 ppm	-0.0031 ppm
Concentration per Run 3	0.0013 ppm	0.0000 ppm	0.0017 ppm	0.0036 ppm	0.0002 ppm	-0.0010 ppm	-0.0004 ppm
Recovery Percentage 1	0.653 %	0.231 %	3.759 %	0.333 %	1.054 %	-6.655 %	-2.603 %
Concentration RSD	201.0 %	590.2 %	12.1 %	51.7 %	71.0 %	99.7 %	116.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	-0.0018 ppm	0.0010 ppm	0.0000 ppm	0.0005 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 1	0.0027 ppm	-0.0031 ppm	0.0004 ppm	-0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 2	0.0015 ppm	-0.0016 ppm	0.0017 ppm	0.0000 ppm	0.0006 ppm	0.0009 ppm	-0.0001 ppm
Concentration per Run 3	-0.0006 ppm	-0.0006 ppm	0.0010 ppm	0.0000 ppm	0.0004 ppm	0.0005 ppm	0.0000 ppm
Recovery Percentage 1	11.905 %	-0.358 %	2.047 %	-0.129 %	4.628 %	2.177 %	-0.504 %
Concentration RSD	143.9 %	70.2 %	61.9 %	520.6 %	28.7 %	116.0 %	142.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	92.1980 %	101.5251 %	92.7181 %	92.3829 %	101.6868 %	94.0494 %
Concentration per Run 1	0.0006 ppm	90.0502 %	101.3825 %	92.3377 %	90.7864 %	101.4243 %	94.2606 %
Concentration per Run 2	0.0005 ppm	93.1478 %	102.2157 %	92.5440 %	93.3791 %	102.4429 %	93.9024 %
Concentration per Run 3	0.0004 ppm	93.3960 %	100.9771 %	93.2727 %	92.9833 %	101.1932 %	93.9851 %
Recovery Percentage 1	10.069 %						
Concentration RSD	23.9 %	2.0 %	0.6 %	0.5 %	1.5 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453858-04 WG1976106
Analysis started at: 9/26/2024 4:56:00 PM
Rack 2
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0173 ppm	0.0014 ppm	0.0213 ppm	0.0141 ppm	0.0003 ppm	136.7042 ppm
Concentration per Run 1	0.0002 ppm	0.0121 ppm	0.0035 ppm	0.0221 ppm	0.0142 ppm	0.0003 ppm	136.0985 ppm
Concentration per Run 2	0.0003 ppm	0.0194 ppm	0.0014 ppm	0.0213 ppm	0.0140 ppm	0.0003 ppm	136.9005 ppm
Concentration per Run 3	0.0005 ppm	0.0203 ppm	-0.0006 ppm	0.0207 ppm	0.0142 ppm	0.0003 ppm	137.1136 ppm
Concentration RSD	45.7 %	26.0 %	145.0 %	3.5 %	0.7 %	1.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0217 ppm	-0.0005 ppm	0.0032 ppm	41.5612 ppm	11.4641 ppm	0.0267 ppm
Concentration per Run 1	-0.0004 ppm	0.0221 ppm	-0.0007 ppm	0.0034 ppm	41.4499 ppm	11.4821 ppm	0.0265 ppm
Concentration per Run 2	-0.0004 ppm	0.0212 ppm	-0.0004 ppm	0.0030 ppm	41.5383 ppm	11.4545 ppm	0.0275 ppm
Concentration per Run 3	-0.0004 ppm	0.0219 ppm	-0.0006 ppm	0.0031 ppm	41.6955 ppm	11.4556 ppm	0.0260 ppm
Concentration RSD	5.5 %	2.2 %	25.1 %	7.4 %	0.3 %	0.1 %	2.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	71.3221 ppm	1.2593 ppm	0.0001 ppm	52.3471 ppm	0.0897 ppm	-0.0001 ppm	-0.0012 ppm
Concentration per Run 1	72.7662 ppm	1.2586 ppm	0.0000 ppm	52.1817 ppm	0.0916 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 2	71.0876 ppm	1.2605 ppm	-0.0001 ppm	52.5531 ppm	0.0893 ppm	-0.0002 ppm	-0.0013 ppm
Concentration per Run 3	70.1124 ppm	1.2587 ppm	0.0003 ppm	52.3066 ppm	0.0883 ppm	0.0000 ppm	-0.0007 ppm
Concentration RSD	1.9 %	0.1 %	306.0 %	0.4 %	1.9 %	100.3 %	34.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	22.4912 [SIC 100]	-0.0002 ppm	0.8141 ppm	0.0002 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0024 ppm	22.9316 ppm	0.0000 ppm	0.8067 ppm	0.0003 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 2	0.0009 ppm	22.3747 ppm	0.0001 ppm	0.8170 ppm	0.0002 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 3	-0.0009 ppm	22.1673 ppm	-0.0006 ppm	0.8185 ppm	0.0002 ppm	-0.0013 ppm	0.0000 ppm
Concentration RSD	208.5 %	1.8 %	212.5 %	0.8 %	29.3 %	72.5 %	153.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0841 ppm	90.7132 %	103.5838 %	87.5244 %	89.9872 %	102.9353 %	90.9112 %
Concentration per Run 1	0.0858 ppm	89.1922 %	104.8074 %	87.8915 %	89.0753 %	104.3904 %	91.1320 %
Concentration per Run 2	0.0838 ppm	91.0601 %	103.4601 %	87.6490 %	90.1034 %	102.6748 %	90.8400 %
Concentration per Run 3	0.0827 ppm	91.8873 %	102.4838 %	87.0328 %	90.7831 %	101.7408 %	90.7616 %
Concentration RSD	1.9 %	1.5 %	1.1 %	0.5 %	1.0 %	1.3 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 4:59:57 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5035 ppm	0.4925 ppm	0.4866 ppm	0.4959 ppm	0.5063 ppm	0.5165 ppm	0.5020 ppm
Concentration per Run 1	0.5067 ppm	0.4969 ppm	0.4875 ppm	0.4989 ppm	0.5043 ppm	0.5146 ppm	0.5006 ppm
Concentration per Run 2	0.5037 ppm	0.4893 ppm	0.4865 ppm	0.4981 ppm	0.5050 ppm	0.5168 ppm	0.5020 ppm
Concentration per Run 3	0.5000 ppm	0.4912 ppm	0.4857 ppm	0.4908 ppm	0.5097 ppm	0.5181 ppm	0.5034 ppm
Recovery Percentage 1	100.693 %	98.496 %	97.316 %	99.188 %	101.260 %	103.298 %	100.393 %
Concentration RSD	0.7 %	0.8 %	0.2 %	0.9 %	0.6 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5064 ppm	0.5083 ppm	0.4983 ppm	0.4935 ppm	0.5220 ppm	5.2814 ppm	0.4973 ppm
Concentration per Run 1	0.5101 ppm	0.5133 ppm	0.5001 ppm	0.4969 ppm	0.5215 ppm	5.2779 ppm	0.4953 ppm
Concentration per Run 2	0.5086 ppm	0.5105 ppm	0.4999 ppm	0.4936 ppm	0.5189 ppm	5.2598 ppm	0.4947 ppm
Concentration per Run 3	0.5003 ppm	0.5012 ppm	0.4950 ppm	0.4900 ppm	0.5255 ppm	5.3066 ppm	0.5019 ppm
Recovery Percentage 1	101.271 %	101.666 %	99.666 %	98.702 %	104.394 %	105.628 %	99.461 %
Concentration RSD	1.0 %	1.2 %	0.6 %	0.7 %	0.6 %	0.4 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4927 ppm	0.5029 ppm	0.4984 ppm	10.1728 ppm	0.5076 ppm	0.5005 ppm	0.5035 ppm
Concentration per Run 1	0.4979 ppm	0.5004 ppm	0.4993 ppm	10.1194 ppm	0.5112 ppm	0.4994 ppm	0.5063 ppm
Concentration per Run 2	0.4940 ppm	0.5032 ppm	0.4994 ppm	10.1942 ppm	0.5069 ppm	0.4993 ppm	0.5076 ppm
Concentration per Run 3	0.4862 ppm	0.5051 ppm	0.4965 ppm	10.2048 ppm	0.5048 ppm	0.5028 ppm	0.4965 ppm
Recovery Percentage 1	98.538 %	100.583 %	99.674 %	101.728 %	101.527 %	100.098 %	100.691 %
Concentration RSD	1.2 %	0.5 %	0.3 %	0.5 %	0.6 %	0.4 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4960 ppm	5.5843 ppm	0.4840 ppm	0.4877 ppm	0.5038 ppm	0.4979 ppm	0.5007 ppm
Concentration per Run 1	0.4942 ppm	5.6113 ppm	0.4842 ppm	0.4844 ppm	0.5064 ppm	0.4951 ppm	0.5051 ppm
Concentration per Run 2	0.4958 ppm	5.5877 ppm	0.4840 ppm	0.4863 ppm	0.5050 ppm	0.4963 ppm	0.5016 ppm
Concentration per Run 3	0.4980 ppm	5.5540 ppm	0.4838 ppm	0.4924 ppm	0.4999 ppm	0.5021 ppm	0.4953 ppm
Recovery Percentage 1	99.194 %	106.369 %	96.799 %	97.536 %	100.755 %	99.573 %	100.140 %
Concentration RSD	0.4 %	0.5 %	0.0 %	0.9 %	0.7 %	0.8 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5038 ppm	95.2795 %	103.8050 %	93.6259 %	91.9242 %	101.9838 %	93.6839 %
Concentration per Run 1	0.5060 ppm	94.6627 %	104.5835 %	94.0963 %	91.4566 %	102.8805 %	94.0674 %
Concentration per Run 2	0.5066 ppm	94.7238 %	102.7955 %	93.5997 %	91.4987 %	100.4834 %	93.6882 %
Concentration per Run 3	0.4987 ppm	96.4520 %	104.0361 %	93.1817 %	92.8174 %	102.5873 %	93.2960 %
Recovery Percentage 1	100.753 %						
Concentration RSD	0.9 %	1.1 %	0.9 %	0.5 %	0.8 %	1.3 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 5:03:54 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0004 ppm	-0.0004 ppm	0.0013 ppm	-0.0001 ppm	0.0000 ppm	0.0057 ppm
Concentration per Run 1	-0.0002 ppm	0.0103 ppm	-0.0009 ppm	0.0014 ppm	-0.0001 ppm	0.0000 ppm	0.0070 ppm
Concentration per Run 2	-0.0003 ppm	-0.0065 ppm	0.0000 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0044 ppm
Concentration per Run 3	0.0001 ppm	-0.0027 ppm	-0.0003 ppm	0.0017 ppm	0.0000 ppm	0.0001 ppm	0.0058 ppm
Recovery Percentage 1	-1.947 %	0.363 %	-12.892 %	4.318 %	-0.722 %	0.954 %	5.698 %
Concentration RSD	135.8 %	2,424.3 %	121.4 %	38.8 %	116.8 %	76.6 %	22.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0003 ppm	0.0000 ppm	0.0013 ppm	0.0049 ppm	0.0079 ppm	-0.0003 ppm
Concentration per Run 1	0.0002 ppm	-0.0004 ppm	-0.0001 ppm	0.0012 ppm	0.0051 ppm	0.0025 ppm	0.0006 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0015 ppm	0.0049 ppm	-0.0042 ppm	-0.0002 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0047 ppm	0.0256 ppm	-0.0012 ppm
Recovery Percentage 1	3.113 %	-1.369 %	-0.365 %	12.790 %	9.708 %	0.318 %	-2.842 %
Concentration RSD	43.7 %	64.5 %	326.3 %	12.0 %	4.1 %	197.0 %	326.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0006 ppm	0.0000 ppm	0.0019 ppm	0.0077 ppm	0.0002 ppm	-0.0008 ppm	-0.0008 ppm
Concentration per Run 1	0.0010 ppm	0.0000 ppm	0.0024 ppm	0.0058 ppm	0.0003 ppm	-0.0013 ppm	-0.0015 ppm
Concentration per Run 2	0.0011 ppm	0.0000 ppm	0.0017 ppm	0.0092 ppm	-0.0005 ppm	-0.0006 ppm	-0.0010 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	0.0016 ppm	0.0082 ppm	0.0009 ppm	-0.0004 ppm	0.0000 ppm
Recovery Percentage 1	0.640 %	0.143 %	3.718 %	0.386 %	0.843 %	-7.903 %	-1.649 %
Concentration RSD	114.6 %	392.4 %	23.4 %	22.5 %	343.2 %	62.6 %	94.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	-0.0022 ppm	0.0006 ppm	-0.0001 ppm	0.0005 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0005 ppm	-0.0013 ppm	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 2	-0.0002 ppm	-0.0037 ppm	0.0008 ppm	0.0000 ppm	0.0005 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 3	0.0015 ppm	-0.0015 ppm	0.0010 ppm	-0.0001 ppm	0.0006 ppm	0.0005 ppm	0.0000 ppm
Recovery Percentage 1	5.987 %	-0.437 %	1.281 %	-0.521 %	5.270 %	2.550 %	0.456 %
Concentration RSD	148.2 %	61.6 %	74.2 %	112.1 %	11.0 %	7.2 %	171.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	92.9428 %	101.4812 %	92.6902 %	92.9067 %	101.3874 %	93.9346 %
Concentration per Run 1	0.0007 ppm	91.3330 %	101.9377 %	93.0285 %	91.9484 %	101.7122 %	94.3648 %
Concentration per Run 2	0.0005 ppm	93.7012 %	100.3213 %	92.2054 %	93.8107 %	100.1634 %	93.8198 %
Concentration per Run 3	0.0005 ppm	93.7944 %	102.1845 %	92.8368 %	92.9611 %	102.2865 %	93.6192 %
Recovery Percentage 1	11.241 %						
Concentration RSD	23.5 %	1.5 %	1.0 %	0.5 %	1.0 %	1.1 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976295-1 WG1976295
Analysis started at: 9/26/2024 5:09:12 PM
Rack 2
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0114 ppm	-0.0002 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0986 ppm
Concentration per Run 1	0.0003 ppm	0.0195 ppm	-0.0005 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0990 ppm
Concentration per Run 2	0.0000 ppm	0.0153 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0999 ppm
Concentration per Run 3	0.0003 ppm	-0.0007 ppm	-0.0004 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	0.0968 ppm
Recovery Percentage 1	2.843 %	11.380 %	-6.149 %	3.949 %	0.321 %	0.549 %	98.574 %
Concentration RSD	69.2 %	93.8 %	252.8 %	81.5 %	15.8 %	173.9 %	1.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0002 ppm	0.0004 ppm	0.0294 ppm	0.0042 ppm	-0.0009 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0006 ppm	0.0279 ppm	-0.0089 ppm	-0.0021 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	0.0001 ppm	0.0005 ppm	0.0293 ppm	0.0219 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0309 ppm	-0.0003 ppm	-0.0008 ppm
Recovery Percentage 1	0.927 %	-1.630 %	1.744 %	3.684 %	58.802 %	0.169 %	-8.568 %
Concentration RSD	86.0 %	133.5 %	98.0 %	73.7 %	5.1 %	376.6 %	138.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0089 ppm	0.0004 ppm	0.0001 ppm	0.0101 ppm	0.0001 ppm	-0.0006 ppm	-0.0006 ppm
Concentration per Run 1	0.0079 ppm	0.0005 ppm	-0.0001 ppm	0.0088 ppm	-0.0008 ppm	-0.0012 ppm	-0.0030 ppm
Concentration per Run 2	0.0095 ppm	0.0002 ppm	0.0003 ppm	0.0139 ppm	0.0007 ppm	-0.0002 ppm	0.0005 ppm
Concentration per Run 3	0.0092 ppm	0.0005 ppm	0.0003 ppm	0.0075 ppm	0.0005 ppm	-0.0004 ppm	0.0007 ppm
Recovery Percentage 1	8.891 %	3.931 %	0.259 %	0.503 %	0.449 %	-5.904 %	-1.251 %
Concentration RSD	9.4 %	44.3 %	170.9 %	33.3 %	726.2 %	96.4 %	334.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	-0.0007 ppm	0.0002 ppm	0.0001 ppm	0.0011 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 1	0.0015 ppm	-0.0019 ppm	0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 2	0.0020 ppm	0.0007 ppm	-0.0002 ppm	0.0000 ppm	0.0011 ppm	0.0012 ppm	-0.0002 ppm
Concentration per Run 3	0.0021 ppm	-0.0010 ppm	0.0005 ppm	0.0002 ppm	0.0011 ppm	0.0000 ppm	0.0002 ppm
Recovery Percentage 1	18.543 %	-0.144 %	0.303 %	1.041 %	11.192 %	3.238 %	0.317 %
Concentration RSD	18.5 %	181.7 %	212.8 %	53.9 %	5.1 %	89.8 %	554.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	99.4197 %	102.6956 %	98.8641 %	101.8971 %	103.4625 %	100.9662 %
Concentration per Run 1	0.0008 ppm	97.7533 %	102.5895 %	98.1354 %	101.0742 %	103.3473 %	100.6360 %
Concentration per Run 2	0.0008 ppm	100.7333 %	103.2716 %	99.3221 %	103.3577 %	104.0431 %	101.2628 %
Concentration per Run 3	0.0007 ppm	99.7725 %	102.2258 %	99.1348 %	101.2594 %	102.9971 %	100.9997 %
Recovery Percentage 1	15.149 %						
Concentration RSD	5.4 %	1.5 %	0.5 %	0.6 %	1.2 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976295-2D2 WG1976295
Analysis started at: 9/26/2024 5:13:24 PM
Rack 2
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0517 ppm	2.0615 ppm	0.1187 ppm	1.0071 ppm	2.0697 ppm	0.0531 ppm	10.1691 ppm
Concentration per Run 1	0.0522 ppm	2.0557 ppm	0.1181 ppm	1.0182 ppm	2.0696 ppm	0.0529 ppm	10.1332 ppm
Concentration per Run 2	0.0518 ppm	2.0730 ppm	0.1197 ppm	1.0037 ppm	2.0625 ppm	0.0533 ppm	10.2233 ppm
Concentration per Run 3	0.0513 ppm	2.0557 ppm	0.1184 ppm	0.9994 ppm	2.0770 ppm	0.0530 ppm	10.1510 ppm
Concentration RSD	0.8 %	0.5 %	0.7 %	1.0 %	0.3 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0543 ppm	0.5212 ppm	0.2065 ppm	0.2662 ppm	1.0811 ppm	10.6588 ppm	0.0012 ppm
Concentration per Run 1	0.0552 ppm	0.5271 ppm	0.2092 ppm	0.2691 ppm	1.0793 ppm	10.7192 ppm	0.0016 ppm
Concentration per Run 2	0.0539 ppm	0.5181 ppm	0.2052 ppm	0.2645 ppm	1.0827 ppm	10.6554 ppm	0.0001 ppm
Concentration per Run 3	0.0538 ppm	0.5182 ppm	0.2052 ppm	0.2650 ppm	1.0812 ppm	10.6018 ppm	0.0018 ppm
Concentration RSD	1.4 %	1.0 %	1.1 %	0.9 %	0.2 %	0.6 %	79.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0918 ppm	0.5302 ppm	1.0021 ppm	10.5454 ppm	0.5268 ppm	0.5437 ppm	0.5223 ppm
Concentration per Run 1	10.2699 ppm	0.5300 ppm	1.0083 ppm	10.5378 ppm	0.5347 ppm	0.5381 ppm	0.5259 ppm
Concentration per Run 2	10.0267 ppm	0.5319 ppm	0.9968 ppm	10.5408 ppm	0.5224 ppm	0.5484 ppm	0.5191 ppm
Concentration per Run 3	9.9789 ppm	0.5289 ppm	1.0010 ppm	10.5576 ppm	0.5233 ppm	0.5445 ppm	0.5218 ppm
Concentration RSD	1.5 %	0.3 %	0.6 %	0.1 %	1.3 %	1.0 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1236 ppm	0.8012 ppm	0.9776 ppm	0.9717 ppm	1.0149 ppm	0.1198 ppm	0.5284 ppm
Concentration per Run 1	0.1229 ppm	0.8110 ppm	0.9919 ppm	0.9685 ppm	1.0296 ppm	0.1200 ppm	0.5353 ppm
Concentration per Run 2	0.1246 ppm	0.7963 ppm	0.9697 ppm	0.9752 ppm	1.0133 ppm	0.1224 ppm	0.5253 ppm
Concentration per Run 3	0.1233 ppm	0.7964 ppm	0.9713 ppm	0.9714 ppm	1.0017 ppm	0.1168 ppm	0.5245 ppm
Concentration RSD	0.7 %	1.1 %	1.3 %	0.3 %	1.4 %	2.4 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5237 ppm	94.0639 %	101.8390 %	91.4874 %	91.7674 %	99.9931 %	92.6184 %
Concentration per Run 1	0.5309 ppm	92.3641 %	101.6655 %	92.0339 %	90.3664 %	99.8744 %	92.8168 %
Concentration per Run 2	0.5171 ppm	95.0153 %	101.4241 %	91.2032 %	92.7540 %	99.9041 %	92.5845 %
Concentration per Run 3	0.5229 ppm	94.8123 %	102.4274 %	91.2251 %	92.1818 %	100.2008 %	92.4539 %
Concentration RSD	1.3 %	1.6 %	0.5 %	0.5 %	1.4 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454047-07D4 WG1975918
Analysis started at: 9/26/2024 5:23:14 PM
Rack 3
Vial 6
Comment Al rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	211.3013 ppm	0.0009 ppm	0.0037 ppm	0.4671 ppm	0.0072 ppm	38.6387 ppm
Concentration per Run 1	-0.0006 ppm	211.2043 ppm	-0.0026 ppm	0.0043 ppm	0.4643 ppm	0.0072 ppm	38.6689 ppm
Concentration per Run 2	-0.0010 ppm	210.7624 ppm	0.0016 ppm	0.0044 ppm	0.4657 ppm	0.0072 ppm	38.6295 ppm
Concentration per Run 3	-0.0007 ppm	211.9372 ppm	0.0037 ppm	0.0025 ppm	0.4712 ppm	0.0071 ppm	38.6176 ppm
Concentration RSD	26.6 %	0.3 %	348.7 %	29.2 %	0.8 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	0.1990 ppm	3.8025 ppm	-0.0041 ppm	164.7021 ppm	50.5174 ppm	0.1628 ppm
Concentration per Run 1	-0.0004 ppm	0.1997 ppm	3.8095 ppm	-0.0043 ppm	164.6780 ppm	50.7282 ppm	0.1662 ppm
Concentration per Run 2	-0.0003 ppm	0.1996 ppm	3.7996 ppm	-0.0041 ppm	164.4516 ppm	50.0830 ppm	0.1606 ppm
Concentration per Run 3	-0.0004 ppm	0.1978 ppm	3.7984 ppm	-0.0037 ppm	164.9766 ppm	50.7408 ppm	0.1615 ppm
Concentration RSD	8.0 %	0.5 %	0.2 %	7.3 %	0.2 %	0.7 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	285.9358 ppm	1.4292 ppm	0.0003 ppm	10.4715 ppm	3.0897 ppm	0.0207 ppm	-0.0098 ppm
Concentration per Run 1	286.5564 ppm	1.4331 ppm	0.0003 ppm	10.4595 ppm	3.0993 ppm	0.0215 ppm	-0.0083 ppm
Concentration per Run 2	285.9975 ppm	1.4228 ppm	0.0003 ppm	10.4103 ppm	3.0836 ppm	0.0201 ppm	-0.0115 ppm
Concentration per Run 3	285.2535 ppm	1.4317 ppm	0.0004 ppm	10.5447 ppm	3.0862 ppm	0.0205 ppm	-0.0096 ppm
Concentration RSD	0.2 %	0.4 %	13.0 %	0.6 %	0.3 %	3.4 %	16.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	0.4492 ppm	0.0038 ppm	0.1455 ppm	9.2202 ppm	0.0082 ppm	0.2453 ppm
Concentration per Run 1	0.0005 ppm	0.4474 ppm	0.0032 ppm	0.1457 ppm	9.2012 ppm	0.0087 ppm	0.2450 ppm
Concentration per Run 2	0.0008 ppm	0.4518 ppm	0.0038 ppm	0.1455 ppm	9.1712 ppm	0.0068 ppm	0.2457 ppm
Concentration per Run 3	0.0035 ppm	0.4484 ppm	0.0043 ppm	0.1454 ppm	9.2884 ppm	0.0092 ppm	0.2450 ppm
Concentration RSD	101.6 %	0.5 %	13.4 %	0.1 %	0.7 %	15.6 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3268 ppm	98.1190 %	98.5223 %	79.3228 %	95.4743 %	100.3592 %	97.0183 %
Concentration per Run 1	0.3288 ppm	97.9235 %	97.8571 %	79.0962 %	95.1646 %	99.9151 %	96.4410 %
Concentration per Run 2	0.3256 ppm	97.8972 %	98.1574 %	79.2226 %	95.4210 %	99.7603 %	96.9932 %
Concentration per Run 3	0.3260 ppm	98.5363 %	99.5522 %	79.6496 %	95.8374 %	101.4022 %	97.6207 %
Concentration RSD	0.5 %	0.4 %	0.9 %	0.4 %	0.4 %	0.9 %	0.6 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453965-01D2 WG1976295
Analysis started at: 9/26/2024 5:27:30 PM
Rack 2
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	12.8363 ppm	0.0274 ppm	0.0682 ppm	0.2015 ppm	0.0011 ppm	1,016.9215 [SIC 1500]
Concentration per Run 1	-0.0003 ppm	12.9129 ppm	0.0260 ppm	0.0687 ppm	0.2032 ppm	0.0012 ppm	1,022.4292 ppm
Concentration per Run 2	-0.0007 ppm	12.7733 ppm	0.0292 ppm	0.0689 ppm	0.2005 ppm	0.0011 ppm	1,015.4376 ppm
Concentration per Run 3	-0.0007 ppm	12.8228 ppm	0.0271 ppm	0.0671 ppm	0.2007 ppm	0.0012 ppm	1,012.8977 ppm
Concentration RSD	39.1 %	0.6 %	5.8 %	1.5 %	0.7 %	1.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0047 ppm	0.0104 ppm	0.0357 ppm	0.0420 ppm	26.5086 ppm	4.1820 ppm	0.0276 ppm
Concentration per Run 1	-0.0049 ppm	0.0109 ppm	0.0364 ppm	0.0425 ppm	26.7877 ppm	4.2520 ppm	0.0288 ppm
Concentration per Run 2	-0.0048 ppm	0.0105 ppm	0.0355 ppm	0.0419 ppm	26.3338 ppm	4.1629 ppm	0.0273 ppm
Concentration per Run 3	-0.0046 ppm	0.0099 ppm	0.0351 ppm	0.0415 ppm	26.4044 ppm	4.1310 ppm	0.0266 ppm
Concentration RSD	3.6 %	5.0 %	1.8 %	1.1 %	0.9 %	1.5 %	4.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.8924 ppm	0.9007 ppm	0.0178 ppm	0.7568 ppm	0.0338 ppm	0.0360 ppm	-0.0006 ppm
Concentration per Run 1	8.0748 ppm	0.9064 ppm	0.0173 ppm	0.7577 ppm	0.0352 ppm	0.0356 ppm	0.0001 ppm
Concentration per Run 2	7.8286 ppm	0.8984 ppm	0.0179 ppm	0.7525 ppm	0.0334 ppm	0.0360 ppm	-0.0025 ppm
Concentration per Run 3	7.7739 ppm	0.8975 ppm	0.0181 ppm	0.7603 ppm	0.0328 ppm	0.0365 ppm	0.0006 ppm
Concentration RSD	2.0 %	0.5 %	2.4 %	0.5 %	3.7 %	1.3 %	270.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0053 ppm	6.8631 ppm	0.0017 ppm	4.4660 ppm	0.2076 ppm	0.0021 ppm	0.0452 ppm
Concentration per Run 1	0.0060 ppm	6.9462 ppm	0.0008 ppm	4.4896 ppm	0.2098 ppm	0.0027 ppm	0.0458 ppm
Concentration per Run 2	0.0062 ppm	6.8509 ppm	0.0025 ppm	4.4648 ppm	0.2075 ppm	0.0029 ppm	0.0452 ppm
Concentration per Run 3	0.0036 ppm	6.7924 ppm	0.0017 ppm	4.4436 ppm	0.2055 ppm	0.0007 ppm	0.0448 ppm
Concentration RSD	27.0 %	1.1 %	51.3 %	0.5 %	1.1 %	59.3 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2203 ppm	86.8891 %	104.3828 %	80.2315 %	85.7248 %	104.6898 %	86.0650 %
Concentration per Run 1	0.2261 ppm	85.0144 %	103.7543 %	80.3434 %	84.5059 %	104.1966 %	85.8634 %
Concentration per Run 2	0.2188 ppm	87.4248 %	104.6638 %	80.3479 %	85.9656 %	104.7982 %	86.2816 %
Concentration per Run 3	0.2162 ppm	88.2283 %	104.7305 %	80.0033 %	86.7028 %	105.0748 %	86.0500 %
Concentration RSD	2.3 %	1.9 %	0.5 %	0.2 %	1.3 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 5:31:27 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5023 ppm	0.4868 ppm	0.4868 ppm	0.4910 ppm	0.5070 ppm	0.5123 ppm	0.5055 ppm
Concentration per Run 1	0.5070 ppm	0.4873 ppm	0.4859 ppm	0.4914 ppm	0.5045 ppm	0.5143 ppm	0.5059 ppm
Concentration per Run 2	0.5012 ppm	0.4859 ppm	0.4866 ppm	0.4925 ppm	0.5074 ppm	0.5102 ppm	0.5028 ppm
Concentration per Run 3	0.4985 ppm	0.4873 ppm	0.4880 ppm	0.4892 ppm	0.5090 ppm	0.5124 ppm	0.5077 ppm
Recovery Percentage 1	100.452 %	97.367 %	97.359 %	98.210 %	101.400 %	102.459 %	101.094 %
Concentration RSD	0.9 %	0.2 %	0.2 %	0.3 %	0.4 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4988 ppm	0.5023 ppm	0.4950 ppm	0.4924 ppm	0.5176 ppm	5.2580 ppm	0.4996 ppm
Concentration per Run 1	0.5015 ppm	0.5076 ppm	0.4996 ppm	0.4962 ppm	0.5162 ppm	5.2793 ppm	0.5025 ppm
Concentration per Run 2	0.4992 ppm	0.5007 ppm	0.4938 ppm	0.4921 ppm	0.5184 ppm	5.2717 ppm	0.4951 ppm
Concentration per Run 3	0.4957 ppm	0.4985 ppm	0.4917 ppm	0.4889 ppm	0.5183 ppm	5.2231 ppm	0.5012 ppm
Recovery Percentage 1	99.759 %	100.455 %	99.008 %	98.474 %	103.528 %	105.161 %	99.921 %
Concentration RSD	0.6 %	0.9 %	0.8 %	0.7 %	0.2 %	0.6 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4867 ppm	0.4981 ppm	0.4935 ppm	10.1171 ppm	0.5036 ppm	0.4990 ppm	0.4984 ppm
Concentration per Run 1	0.4909 ppm	0.4978 ppm	0.4941 ppm	10.0425 ppm	0.5101 ppm	0.5003 ppm	0.5017 ppm
Concentration per Run 2	0.4867 ppm	0.4988 ppm	0.4937 ppm	10.1280 ppm	0.5026 ppm	0.4958 ppm	0.4992 ppm
Concentration per Run 3	0.4824 ppm	0.4978 ppm	0.4928 ppm	10.1808 ppm	0.4980 ppm	0.5009 ppm	0.4944 ppm
Recovery Percentage 1	97.336 %	99.626 %	98.708 %	101.171 %	100.713 %	99.802 %	99.687 %
Concentration RSD	0.9 %	0.1 %	0.1 %	0.7 %	1.2 %	0.6 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4984 ppm	5.5762 ppm	0.4766 ppm	0.4861 ppm	0.4994 ppm	0.4976 ppm	0.4978 ppm
Concentration per Run 1	0.4970 ppm	5.6039 ppm	0.4789 ppm	0.4868 ppm	0.5043 ppm	0.4981 ppm	0.5019 ppm
Concentration per Run 2	0.4986 ppm	5.5690 ppm	0.4761 ppm	0.4843 ppm	0.4985 ppm	0.4979 ppm	0.4973 ppm
Concentration per Run 3	0.4994 ppm	5.5556 ppm	0.4746 ppm	0.4870 ppm	0.4956 ppm	0.4970 ppm	0.4942 ppm
Recovery Percentage 1	99.673 %	106.213 %	95.314 %	97.211 %	99.889 %	99.528 %	99.558 %
Concentration RSD	0.2 %	0.4 %	0.5 %	0.3 %	0.9 %	0.1 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4955 ppm	97.1117 %	107.1306 %	94.3194 %	93.6373 %	104.9039 %	94.8144 %
Concentration per Run 1	0.4983 ppm	96.7245 %	107.1018 %	93.9654 %	93.3052 %	105.4029 %	94.2722 %
Concentration per Run 2	0.4969 ppm	96.9469 %	106.3360 %	94.2473 %	93.4103 %	104.0470 %	95.0278 %
Concentration per Run 3	0.4912 ppm	97.6637 %	107.9542 %	94.7456 %	94.1963 %	105.2618 %	95.1431 %
Recovery Percentage 1	99.095 %						
Concentration RSD	0.8 %	0.5 %	0.8 %	0.4 %	0.5 %	0.7 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 5:35:24 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0064 ppm	0.0001 ppm	0.0017 ppm	-0.0001 ppm	0.0000 ppm	0.0076 ppm
Concentration per Run 1	-0.0003 ppm	0.0074 ppm	0.0003 ppm	0.0015 ppm	-0.0002 ppm	0.0000 ppm	0.0084 ppm
Concentration per Run 2	0.0001 ppm	0.0060 ppm	-0.0005 ppm	0.0020 ppm	-0.0001 ppm	0.0001 ppm	0.0064 ppm
Concentration per Run 3	0.0002 ppm	0.0058 ppm	0.0004 ppm	0.0016 ppm	-0.0001 ppm	0.0000 ppm	0.0082 ppm
Recovery Percentage 1	-0.346 %	6.404 %	2.940 %	5.680 %	-1.164 %	0.464 %	7.632 %
Concentration RSD	1,085.6 %	13.5 %	590.8 %	14.6 %	67.1 %	200.1 %	14.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0015 ppm	0.0052 ppm	0.0103 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	-0.0001 ppm	0.0017 ppm	0.0056 ppm	0.0065 ppm	0.0013 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0015 ppm	0.0053 ppm	0.0073 ppm	-0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0013 ppm	0.0045 ppm	0.0171 ppm	0.0013 ppm
Recovery Percentage 1	1.681 %	-0.630 %	-1.239 %	14.559 %	10.301 %	0.412 %	6.033 %
Concentration RSD	78.7 %	220.1 %	28.6 %	13.8 %	11.0 %	57.1 %	195.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0002 ppm	0.0001 ppm	0.0016 ppm	0.0054 ppm	0.0004 ppm	-0.0002 ppm	-0.0005 ppm
Concentration per Run 1	-0.0008 ppm	0.0002 ppm	0.0020 ppm	0.0062 ppm	0.0005 ppm	-0.0005 ppm	-0.0015 ppm
Concentration per Run 2	0.0015 ppm	0.0001 ppm	0.0017 ppm	0.0088 ppm	0.0007 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0011 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0009 ppm
Recovery Percentage 1	0.220 %	0.983 %	3.118 %	0.269 %	1.541 %	-1.985 %	-1.057 %
Concentration RSD	548.4 %	110.5 %	29.7 %	72.8 %	102.2 %	132.3 %	236.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	-0.0023 ppm	0.0003 ppm	0.0000 ppm	0.0006 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0008 ppm	-0.0017 ppm	0.0007 ppm	0.0000 ppm	0.0006 ppm	0.0010 ppm	0.0000 ppm
Concentration per Run 2	-0.0011 ppm	-0.0029 ppm	0.0004 ppm	0.0000 ppm	0.0007 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 3	-0.0008 ppm	-0.0024 ppm	-0.0003 ppm	0.0000 ppm	0.0004 ppm	-0.0005 ppm	0.0001 ppm
Recovery Percentage 1	-3.982 %	-0.463 %	0.538 %	-0.005 %	5.817 %	-0.768 %	0.329 %
Concentration RSD	257.6 %	26.9 %	177.7 %	4,335.8 %	20.3 %	643.4 %	305.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	93.3520 %	103.2630 %	93.2934 %	93.8849 %	103.6274 %	95.0892 %
Concentration per Run 1	0.0007 ppm	91.2888 %	104.2103 %	93.2359 %	92.0442 %	104.3991 %	95.1933 %
Concentration per Run 2	0.0004 ppm	93.5793 %	102.5934 %	93.3905 %	93.9519 %	103.0404 %	95.3779 %
Concentration per Run 3	0.0005 ppm	95.1880 %	102.9854 %	93.2539 %	95.6584 %	103.4428 %	94.6963 %
Recovery Percentage 1	10.864 %						
Concentration RSD	30.1 %	2.1 %	0.8 %	0.1 %	1.9 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976217-1 WG1976217
Analysis started at: 9/26/2024 5:40:57 PM
Rack 3
Vial 7
Comment Al rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0025 ppm	0.0009 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0057 ppm
Concentration per Run 1	-0.0005 ppm	-0.0017 ppm	0.0009 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0046 ppm
Concentration per Run 2	-0.0001 ppm	-0.0043 ppm	0.0005 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0077 ppm
Concentration per Run 3	0.0000 ppm	-0.0016 ppm	0.0013 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0048 ppm
Recovery Percentage 1	-3.039 %	-2.510 %	30.332 %	1.802 %	-0.880 %	-0.237 %	5.693 %
Concentration RSD	124.4 %	60.9 %	41.9 %	116.6 %	88.7 %	96.4 %	30.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0015 ppm	0.0121 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0018 ppm	0.0014 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0013 ppm	0.0017 ppm	0.0005 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0012 ppm	0.0332 ppm	0.0000 ppm
Recovery Percentage 1	0.830 %	-1.524 %	0.576 %	2.432 %	2.914 %	0.484 %	1.649 %
Concentration RSD	98.3 %	40.4 %	113.5 %	101.9 %	21.2 %	151.1 %	179.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0034 ppm	-0.0002 ppm	-0.0001 ppm	-0.0026 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0048 ppm	-0.0002 ppm	-0.0005 ppm	-0.0036 ppm
Concentration per Run 2	-0.0008 ppm	0.0002 ppm	-0.0003 ppm	0.0005 ppm	-0.0005 ppm	-0.0001 ppm	-0.0020 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0049 ppm	0.0002 ppm	0.0001 ppm	-0.0022 ppm
Recovery Percentage 1	-0.271 %	1.204 %	0.437 %	0.170 %	-0.705 %	-1.459 %	-5.196 %
Concentration RSD	171.0 %	123.6 %	205.1 %	74.9 %	186.1 %	193.3 %	33.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	-0.0023 ppm	-0.0003 ppm	-0.0001 ppm	0.0003 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 1	-0.0003 ppm	-0.0024 ppm	-0.0004 ppm	0.0000 ppm	0.0004 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 2	0.0034 ppm	-0.0018 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0011 ppm	-0.0002 ppm
Concentration per Run 3	0.0029 ppm	-0.0028 ppm	-0.0004 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm	-0.0002 ppm
Recovery Percentage 1	19.864 %	-0.468 %	-0.519 %	-0.719 %	3.027 %	0.764 %	-0.631 %
Concentration RSD	100.0 %	20.4 %	114.6 %	47.6 %	60.1 %	592.3 %	284.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	96.6188 %	102.7408 %	96.7516 %	103.6034 %	105.8502 %	101.7694 %
Concentration per Run 1	0.0004 ppm	94.5228 %	102.2293 %	96.1839 %	102.5625 %	105.6333 %	101.4087 %
Concentration per Run 2	0.0004 ppm	96.7645 %	103.0827 %	97.4948 %	103.7834 %	106.0949 %	102.7021 %
Concentration per Run 3	0.0004 ppm	98.5692 %	102.9105 %	96.5761 %	104.4643 %	105.8224 %	101.1975 %
Recovery Percentage 1	8.085 %						
Concentration RSD	8.6 %	2.1 %	0.4 %	0.7 %	0.9 %	0.2 %	0.8 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976217-2 WG1976217
Analysis started at: 9/26/2024 5:49:02 PM
Rack 3
Vial 8
Comment Al rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0442 ppm	1.9271 ppm	0.1073 ppm	0.8088 ppm	1.9455 ppm	0.0491 ppm	9.6698 ppm
Concentration per Run 1	0.0436 ppm	1.9185 ppm	0.1077 ppm	0.7968 ppm	1.9427 ppm	0.0490 ppm	9.6004 ppm
Concentration per Run 2	0.0440 ppm	1.9277 ppm	0.1073 ppm	0.8049 ppm	1.9428 ppm	0.0489 ppm	9.6776 ppm
Concentration per Run 3	0.0448 ppm	1.9352 ppm	0.1069 ppm	0.8247 ppm	1.9511 ppm	0.0495 ppm	9.7314 ppm
Concentration RSD	1.4 %	0.4 %	0.4 %	1.8 %	0.2 %	0.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0450 ppm	0.4305 ppm	0.1722 ppm	0.2224 ppm	0.9925 ppm	10.1107 ppm	0.0009 ppm
Concentration per Run 1	0.0445 ppm	0.4254 ppm	0.1699 ppm	0.2193 ppm	0.9895 ppm	10.0993 ppm	0.0005 ppm
Concentration per Run 2	0.0448 ppm	0.4284 ppm	0.1712 ppm	0.2216 ppm	0.9898 ppm	10.1196 ppm	0.0018 ppm
Concentration per Run 3	0.0457 ppm	0.4376 ppm	0.1754 ppm	0.2263 ppm	0.9981 ppm	10.1133 ppm	0.0005 ppm
Concentration RSD	1.4 %	1.5 %	1.6 %	1.6 %	0.5 %	0.1 %	77.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.4038 ppm	0.4917 ppm	0.8085 ppm	10.0428 ppm	0.4322 ppm	0.5055 ppm	0.3730 ppm
Concentration per Run 1	8.3271 ppm	0.4872 ppm	0.7938 ppm	9.9252 ppm	0.4258 ppm	0.5002 ppm	0.3654 ppm
Concentration per Run 2	8.3803 ppm	0.4920 ppm	0.8042 ppm	10.0389 ppm	0.4315 ppm	0.5063 ppm	0.3715 ppm
Concentration per Run 3	8.5039 ppm	0.4960 ppm	0.8275 ppm	10.1643 ppm	0.4393 ppm	0.5099 ppm	0.3820 ppm
Concentration RSD	1.1 %	0.9 %	2.1 %	1.2 %	1.6 %	1.0 %	2.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1083 ppm	0.6833 ppm	0.7999 ppm	0.9346 ppm	0.8783 ppm	0.1168 ppm	0.4428 ppm
Concentration per Run 1	0.1079 ppm	0.6756 ppm	0.7872 ppm	0.9317 ppm	0.8622 ppm	0.1171 ppm	0.4371 ppm
Concentration per Run 2	0.1083 ppm	0.6765 ppm	0.7972 ppm	0.9281 ppm	0.8811 ppm	0.1167 ppm	0.4417 ppm
Concentration per Run 3	0.1086 ppm	0.6979 ppm	0.8153 ppm	0.9441 ppm	0.8918 ppm	0.1166 ppm	0.4496 ppm
Concentration RSD	0.3 %	1.8 %	1.8 %	0.9 %	1.7 %	0.2 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4212 ppm	117.0528 %	112.1930 %	104.4378 %	101.2956 %	105.2400 %	99.2228 %
Concentration per Run 1	0.4151 ppm	118.3170 %	112.9696 %	105.1618 %	100.0123 %	105.5626 %	98.9941 %
Concentration per Run 2	0.4187 ppm	117.5806 %	112.4531 %	104.0671 %	102.4044 %	105.3264 %	98.9405 %
Concentration per Run 3	0.4299 ppm	115.2608 %	111.1564 %	104.0845 %	101.4701 %	104.8310 %	99.7339 %
Concentration RSD	1.8 %	1.4 %	0.8 %	0.6 %	1.2 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454059-02 WG1976217
Analysis started at: 9/26/2024 5:53:18 PM
Rack 3
Vial 14
Comment Al rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0012 ppm	-0.0004 ppm	0.0080 ppm	0.0155 ppm	0.0000 ppm	11.8081 ppm
Concentration per Run 1	0.0001 ppm	-0.0007 ppm	0.0002 ppm	0.0080 ppm	0.0156 ppm	0.0000 ppm	11.7832 ppm
Concentration per Run 2	-0.0002 ppm	-0.0052 ppm	-0.0006 ppm	0.0083 ppm	0.0155 ppm	0.0000 ppm	11.8178 ppm
Concentration per Run 3	0.0002 ppm	0.0024 ppm	-0.0007 ppm	0.0076 ppm	0.0156 ppm	0.0000 ppm	11.8234 ppm
Concentration RSD	429.4 %	325.3 %	132.8 %	4.2 %	0.5 %	75.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0029 ppm	0.0019 ppm	0.0045 ppm	1.0219 ppm	0.0043 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0032 ppm	0.0020 ppm	0.0047 ppm	1.0285 ppm	0.0059 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0028 ppm	0.0018 ppm	0.0047 ppm	1.0167 ppm	0.0031 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0027 ppm	0.0017 ppm	0.0040 ppm	1.0205 ppm	0.0041 ppm
Concentration RSD	121.8 %	231.1 %	8.0 %	6.6 %	9.8 %	0.6 %	32.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.9147 ppm	0.0002 ppm	0.0048 ppm	9.0009 ppm	0.0006 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 1	6.0654 ppm	0.0001 ppm	0.0047 ppm	9.0029 ppm	0.0009 ppm	-0.0007 ppm	0.0015 ppm
Concentration per Run 2	5.8846 ppm	0.0001 ppm	0.0050 ppm	8.9910 ppm	0.0011 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	5.7942 ppm	0.0003 ppm	0.0048 ppm	9.0088 ppm	-0.0001 ppm	0.0000 ppm	-0.0007 ppm
Concentration RSD	2.3 %	80.5 %	2.6 %	0.1 %	106.7 %	89.4 %	474.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	10.6244 ppm	0.0021 ppm	0.0489 ppm	0.0002 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 1	0.0025 ppm	10.8652 ppm	0.0016 ppm	0.0489 ppm	0.0003 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 2	0.0018 ppm	10.5550 ppm	0.0022 ppm	0.0489 ppm	0.0001 ppm	-0.0003 ppm	0.0006 ppm
Concentration per Run 3	0.0026 ppm	10.4530 ppm	0.0025 ppm	0.0488 ppm	0.0000 ppm	-0.0007 ppm	0.0003 ppm
Concentration RSD	17.5 %	2.0 %	20.0 %	0.1 %	101.2 %	36.9 %	59.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	90.3712 %	104.4716 %	92.7765 %	94.0209 %	105.5968 %	96.7260 %
Concentration per Run 1	0.0009 ppm	88.0964 %	104.3879 %	91.1009 %	92.7510 %	106.2834 %	95.6970 %
Concentration per Run 2	0.0009 ppm	90.7369 %	103.4474 %	93.7225 %	94.0835 %	104.4040 %	97.8271 %
Concentration per Run 3	0.0009 ppm	92.2804 %	105.5794 %	93.5062 %	95.2282 %	106.1030 %	96.6538 %
Concentration RSD	2.7 %	2.3 %	1.0 %	1.6 %	1.3 %	1.0 %	1.1 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454059-01 WG1976217
Analysis started at: 9/26/2024 5:57:16 PM
Rack 3
Vial 9
Comment Al rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0116 ppm	0.0000 ppm	0.0231 ppm	0.1093 ppm	0.0001 ppm	16.2274 ppm
Concentration per Run 1	0.0000 ppm	0.0159 ppm	-0.0001 ppm	0.0235 ppm	0.1086 ppm	0.0000 ppm	16.3056 ppm
Concentration per Run 2	-0.0003 ppm	0.0115 ppm	0.0005 ppm	0.0224 ppm	0.1094 ppm	0.0001 ppm	16.1547 ppm
Concentration per Run 3	-0.0001 ppm	0.0075 ppm	-0.0004 ppm	0.0233 ppm	0.1100 ppm	0.0001 ppm	16.2220 ppm
Concentration RSD	89.9 %	36.1 %	1,642.3 %	2.6 %	0.7 %	11.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0044 ppm	0.0134 ppm	2.9032 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0043 ppm	0.0136 ppm	2.9148 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0045 ppm	0.0131 ppm	2.8885 ppm	0.0014 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0043 ppm	0.0133 ppm	2.9061 ppm	0.0001 ppm
Concentration RSD	308.4 %	207.2 %	109.9 %	3.0 %	1.9 %	0.5 %	101.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.7359 ppm	0.0358 ppm	0.0009 ppm	76.7644 ppm	0.0009 ppm	-0.0001 ppm	-0.0019 ppm
Concentration per Run 1	4.8658 ppm	0.0360 ppm	0.0008 ppm	76.8537 ppm	0.0012 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 2	4.7105 ppm	0.0356 ppm	0.0013 ppm	76.4769 ppm	0.0012 ppm	0.0002 ppm	-0.0014 ppm
Concentration per Run 3	4.6313 ppm	0.0358 ppm	0.0005 ppm	76.9626 ppm	0.0004 ppm	-0.0006 ppm	-0.0030 ppm
Concentration RSD	2.5 %	0.7 %	45.2 %	0.3 %	46.5 %	264.5 %	47.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	3.5804 ppm	0.0001 ppm	0.0888 ppm	0.0000 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 1	-0.0013 ppm	3.6489 ppm	0.0002 ppm	0.0886 ppm	0.0001 ppm	0.0012 ppm	0.0004 ppm
Concentration per Run 2	0.0023 ppm	3.5684 ppm	-0.0002 ppm	0.0887 ppm	-0.0003 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 3	0.0007 ppm	3.5238 ppm	0.0003 ppm	0.0890 ppm	0.0002 ppm	0.0004 ppm	0.0004 ppm
Concentration RSD	334.0 %	1.8 %	185.7 %	0.2 %	920.1 %	80.6 %	25.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0041 ppm	87.8654 %	101.5914 %	89.1356 %	91.4675 %	102.6474 %	93.1018 %
Concentration per Run 1	0.0042 ppm	85.7210 %	100.2520 %	88.7426 %	90.2772 %	101.5309 %	93.0522 %
Concentration per Run 2	0.0041 ppm	88.2271 %	102.6635 %	89.4501 %	91.6851 %	103.8492 %	93.5055 %
Concentration per Run 3	0.0040 ppm	89.6480 %	101.8589 %	89.2142 %	92.4402 %	102.5619 %	92.7477 %
Concentration RSD	2.4 %	2.3 %	1.2 %	0.4 %	1.2 %	1.1 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976217-3 WG1976217
Analysis started at: 9/26/2024 6:01:14 PM
Rack 3
Vial 10
Comment Al rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0536 ppm	2.0056 ppm	0.1232 ppm	1.0681 ppm	2.1241 ppm	0.0518 ppm	26.0939 ppm
Concentration per Run 1	0.0548 ppm	2.0018 ppm	0.1246 ppm	1.0895 ppm	2.1254 ppm	0.0517 ppm	26.0653 ppm
Concentration per Run 2	0.0537 ppm	2.0096 ppm	0.1220 ppm	1.0663 ppm	2.1225 ppm	0.0517 ppm	25.9541 ppm
Concentration per Run 3	0.0522 ppm	2.0054 ppm	0.1232 ppm	1.0484 ppm	2.1246 ppm	0.0519 ppm	26.2622 ppm
Concentration RSD	2.4 %	0.2 %	1.1 %	1.9 %	0.1 %	0.2 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0555 ppm	0.5198 ppm	0.2069 ppm	0.2723 ppm	1.0382 ppm	13.4994 ppm	0.0008 ppm
Concentration per Run 1	0.0568 ppm	0.5306 ppm	0.2114 ppm	0.2783 ppm	1.0401 ppm	13.5762 ppm	0.0002 ppm
Concentration per Run 2	0.0555 ppm	0.5192 ppm	0.2065 ppm	0.2725 ppm	1.0362 ppm	13.4615 ppm	0.0013 ppm
Concentration per Run 3	0.0542 ppm	0.5096 ppm	0.2027 ppm	0.2660 ppm	1.0384 ppm	13.4606 ppm	0.0010 ppm
Concentration RSD	2.3 %	2.0 %	2.1 %	2.3 %	0.2 %	0.5 %	68.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.0144 ppm	0.5445 ppm	0.9255 ppm	86.3347 ppm	0.5251 ppm	0.5459 ppm	0.4280 ppm
Concentration per Run 1	15.3320 ppm	0.5440 ppm	0.9415 ppm	86.0766 ppm	0.5356 ppm	0.5474 ppm	0.4317 ppm
Concentration per Run 2	15.0203 ppm	0.5431 ppm	0.9242 ppm	86.3473 ppm	0.5255 ppm	0.5447 ppm	0.4312 ppm
Concentration per Run 3	14.6908 ppm	0.5464 ppm	0.9108 ppm	86.5801 ppm	0.5141 ppm	0.5457 ppm	0.4210 ppm
Concentration RSD	2.1 %	0.3 %	1.7 %	0.3 %	2.0 %	0.3 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1285 ppm	4.4693 ppm	0.9607 ppm	1.0570 ppm	1.0522 ppm	0.1226 ppm	0.5328 ppm
Concentration per Run 1	0.1299 ppm	4.5642 ppm	0.9764 ppm	1.0540 ppm	1.0729 ppm	0.1234 ppm	0.5426 ppm
Concentration per Run 2	0.1262 ppm	4.4695 ppm	0.9608 ppm	1.0576 ppm	1.0491 ppm	0.1217 ppm	0.5321 ppm
Concentration per Run 3	0.1294 ppm	4.3741 ppm	0.9450 ppm	1.0594 ppm	1.0345 ppm	0.1228 ppm	0.5236 ppm
Concentration RSD	1.6 %	2.1 %	1.6 %	0.3 %	1.8 %	0.7 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5301 ppm	89.1540 %	102.5787 %	88.1974 %	90.6498 %	102.2404 %	92.1732 %
Concentration per Run 1	0.5420 ppm	87.5380 %	103.0483 %	88.1012 %	90.0561 %	103.2663 %	92.6322 %
Concentration per Run 2	0.5303 ppm	89.1117 %	102.8352 %	88.4764 %	90.4807 %	102.3496 %	92.3179 %
Concentration per Run 3	0.5179 ppm	90.8124 %	101.8526 %	88.0146 %	91.4124 %	101.1053 %	91.5696 %
Concentration RSD	2.3 %	1.8 %	0.6 %	0.3 %	0.8 %	1.1 %	0.6 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976217-4 WG1976217
Analysis started at: 9/26/2024 6:05:13 PM
Rack 3
Vial 11
Comment Al rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0150 ppm	0.0008 ppm	0.0240 ppm	0.1093 ppm	0.0000 ppm	16.2972 ppm
Concentration per Run 1	-0.0001 ppm	0.0185 ppm	0.0008 ppm	0.0243 ppm	0.1099 ppm	0.0000 ppm	16.3550 ppm
Concentration per Run 2	-0.0005 ppm	0.0176 ppm	0.0008 ppm	0.0251 ppm	0.1092 ppm	0.0000 ppm	16.2693 ppm
Concentration per Run 3	0.0002 ppm	0.0090 ppm	0.0008 ppm	0.0226 ppm	0.1088 ppm	0.0000 ppm	16.2674 ppm
Concentration RSD	268.0 %	35.1 %	4.6 %	5.3 %	0.5 %	89.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0046 ppm	0.0168 ppm	2.9349 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0048 ppm	0.0172 ppm	2.9579 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0002 ppm	0.0045 ppm	0.0157 ppm	2.9046 ppm	0.0009 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0045 ppm	0.0173 ppm	2.9422 ppm	0.0007 ppm
Concentration RSD	132.8 %	112.0 %	135.4 %	3.5 %	5.3 %	0.9 %	51.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.7346 ppm	0.0362 ppm	0.0056 ppm	77.0304 ppm	0.0008 ppm	0.0007 ppm	0.0015 ppm
Concentration per Run 1	4.8292 ppm	0.0367 ppm	0.0058 ppm	77.3266 ppm	0.0010 ppm	0.0008 ppm	0.0027 ppm
Concentration per Run 2	4.7175 ppm	0.0360 ppm	0.0055 ppm	76.8278 ppm	0.0009 ppm	0.0007 ppm	0.0018 ppm
Concentration per Run 3	4.6571 ppm	0.0359 ppm	0.0056 ppm	76.9369 ppm	0.0005 ppm	0.0006 ppm	0.0000 ppm
Concentration RSD	1.8 %	1.2 %	2.4 %	0.3 %	30.7 %	11.1 %	91.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	3.5702 ppm	0.0035 ppm	0.0888 ppm	0.0005 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 1	0.0012 ppm	3.6325 ppm	0.0031 ppm	0.0891 ppm	0.0006 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 2	-0.0019 ppm	3.5661 ppm	0.0036 ppm	0.0886 ppm	0.0005 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 3	0.0026 ppm	3.5119 ppm	0.0038 ppm	0.0888 ppm	0.0003 ppm	0.0018 ppm	0.0002 ppm
Concentration RSD	364.4 %	1.7 %	10.7 %	0.3 %	28.4 %	224.7 %	35.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0039 ppm	88.5185 %	101.9818 %	89.4473 %	91.8487 %	102.8643 %	93.4564 %
Concentration per Run 1	0.0039 ppm	86.8858 %	101.5359 %	89.0583 %	91.3724 %	102.8061 %	93.4911 %
Concentration per Run 2	0.0038 ppm	88.7788 %	101.6520 %	89.4420 %	92.0988 %	102.4676 %	93.3506 %
Concentration per Run 3	0.0040 ppm	89.8910 %	102.7576 %	89.8416 %	92.0748 %	103.3194 %	93.5276 %
Concentration RSD	2.6 %	1.7 %	0.7 %	0.4 %	0.4 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976217-5 WG1976217
Analysis started at: 9/26/2024 6:09:11 PM
Rack 3
Vial 12
Comment Al rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0518 ppm	1.9440 ppm	0.1200 ppm	1.0413 ppm	2.0576 ppm	0.0504 ppm	25.2819 ppm
Concentration per Run 1	0.0528 ppm	1.9489 ppm	0.1198 ppm	1.0599 ppm	2.0682 ppm	0.0507 ppm	25.3393 ppm
Concentration per Run 2	0.0515 ppm	1.9430 ppm	0.1204 ppm	1.0405 ppm	2.0569 ppm	0.0504 ppm	25.0680 ppm
Concentration per Run 3	0.0512 ppm	1.9402 ppm	0.1197 ppm	1.0234 ppm	2.0477 ppm	0.0501 ppm	25.4383 ppm
Concentration RSD	1.7 %	0.2 %	0.3 %	1.8 %	0.5 %	0.6 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0536 ppm	0.5062 ppm	0.2008 ppm	0.2654 ppm	1.0010 ppm	13.1504 ppm	0.0008 ppm
Concentration per Run 1	0.0544 ppm	0.5140 ppm	0.2042 ppm	0.2711 ppm	1.0045 ppm	13.1798 ppm	0.0016 ppm
Concentration per Run 2	0.0538 ppm	0.5083 ppm	0.2012 ppm	0.2645 ppm	1.0021 ppm	13.0731 ppm	0.0000 ppm
Concentration per Run 3	0.0525 ppm	0.4962 ppm	0.1969 ppm	0.2607 ppm	0.9965 ppm	13.1983 ppm	0.0008 ppm
Concentration RSD	1.8 %	1.8 %	1.8 %	2.0 %	0.4 %	0.5 %	101.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.5981 ppm	0.5308 ppm	0.9111 ppm	83.2919 ppm	0.5093 ppm	0.5307 ppm	0.3806 ppm
Concentration per Run 1	14.8407 ppm	0.5310 ppm	0.9214 ppm	83.0281 ppm	0.5190 ppm	0.5314 ppm	0.3799 ppm
Concentration per Run 2	14.5847 ppm	0.5295 ppm	0.9157 ppm	83.1401 ppm	0.5103 ppm	0.5324 ppm	0.3816 ppm
Concentration per Run 3	14.3690 ppm	0.5319 ppm	0.8962 ppm	83.7076 ppm	0.4985 ppm	0.5282 ppm	0.3802 ppm
Concentration RSD	1.6 %	0.2 %	1.4 %	0.4 %	2.0 %	0.4 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1258 ppm	4.0290 ppm	0.9533 ppm	1.0331 ppm	1.0274 ppm	0.1203 ppm	0.5191 ppm
Concentration per Run 1	0.1260 ppm	4.1041 ppm	0.9616 ppm	1.0365 ppm	1.0463 ppm	0.1199 ppm	0.5279 ppm
Concentration per Run 2	0.1270 ppm	4.0355 ppm	0.9612 ppm	1.0346 ppm	1.0239 ppm	0.1207 ppm	0.5192 ppm
Concentration per Run 3	0.1243 ppm	3.9475 ppm	0.9372 ppm	1.0283 ppm	1.0121 ppm	0.1202 ppm	0.5103 ppm
Concentration RSD	1.1 %	1.9 %	1.5 %	0.4 %	1.7 %	0.3 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5155 ppm	89.1513 %	102.9690 %	88.2485 %	91.1532 %	103.0676 %	92.4916 %
Concentration per Run 1	0.5236 ppm	87.9239 %	103.0205 %	87.8245 %	91.1390 %	103.2168 %	92.5257 %
Concentration per Run 2	0.5178 ppm	88.9709 %	103.3961 %	88.2435 %	90.8725 %	103.4341 %	92.6839 %
Concentration per Run 3	0.5051 ppm	90.5591 %	102.4902 %	88.6774 %	91.4480 %	102.5518 %	92.2654 %
Concentration RSD	1.8 %	1.5 %	0.4 %	0.5 %	0.3 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976217-6D5 WG1976217
Analysis started at: 9/26/2024 6:13:09 PM
Rack 3
Vial 13
Comment Al rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0054 ppm	0.0001 ppm	0.0063 ppm	0.0213 ppm	0.0000 ppm	3.1920 ppm
Concentration per Run 1	0.0002 ppm	-0.0001 ppm	0.0011 ppm	0.0071 ppm	0.0210 ppm	0.0000 ppm	3.1873 ppm
Concentration per Run 2	0.0001 ppm	0.0099 ppm	-0.0012 ppm	0.0064 ppm	0.0215 ppm	0.0000 ppm	3.2040 ppm
Concentration per Run 3	-0.0001 ppm	0.0066 ppm	0.0004 ppm	0.0054 ppm	0.0214 ppm	0.0000 ppm	3.1847 ppm
Concentration RSD	153.0 %	93.9 %	1,244.1 %	13.4 %	1.1 %	17.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0018 ppm	0.0041 ppm	0.5911 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	-0.0001 ppm	0.0019 ppm	0.0039 ppm	0.5987 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0001 ppm	0.0019 ppm	0.0035 ppm	0.5777 ppm	-0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0016 ppm	0.0050 ppm	0.5968 ppm	-0.0006 ppm
Concentration RSD	225.2 %	84.3 %	702.6 %	9.5 %	18.9 %	2.0 %	38,224.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.9000 ppm	0.0070 ppm	0.0067 ppm	15.2887 ppm	0.0005 ppm	-0.0007 ppm	0.0100 ppm
Concentration per Run 1	0.9173 ppm	0.0071 ppm	0.0062 ppm	15.2892 ppm	0.0010 ppm	-0.0005 ppm	0.0073 ppm
Concentration per Run 2	0.8975 ppm	0.0071 ppm	0.0070 ppm	15.1726 ppm	0.0001 ppm	-0.0008 ppm	0.0111 ppm
Concentration per Run 3	0.8851 ppm	0.0069 ppm	0.0070 ppm	15.4043 ppm	0.0004 ppm	-0.0009 ppm	0.0116 ppm
Concentration RSD	1.8 %	1.3 %	6.6 %	0.8 %	95.3 %	24.2 %	23.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	0.6691 ppm	0.0102 ppm	0.0174 ppm	0.0005 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0017 ppm	0.6800 ppm	0.0105 ppm	0.0175 ppm	0.0005 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 2	-0.0011 ppm	0.6679 ppm	0.0093 ppm	0.0174 ppm	0.0005 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	0.0010 ppm	0.6592 ppm	0.0109 ppm	0.0173 ppm	0.0004 ppm	0.0008 ppm	-0.0001 ppm
Concentration RSD	268.6 %	1.6 %	7.9 %	0.6 %	12.8 %	410.8 %	247.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	92.3847 %	103.0348 %	92.8696 %	92.1954 %	102.1875 %	93.9262 %
Concentration per Run 1	0.0013 ppm	90.4997 %	103.3137 %	93.0659 %	91.0742 %	102.7615 %	94.2134 %
Concentration per Run 2	0.0010 ppm	92.7065 %	102.2638 %	92.8385 %	92.4707 %	101.7289 %	93.7110 %
Concentration per Run 3	0.0010 ppm	93.9478 %	103.5270 %	92.7043 %	93.0412 %	102.0720 %	93.8541 %
Concentration RSD	18.8 %	1.9 %	0.7 %	0.2 %	1.1 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 6:17:08 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4995 ppm	0.4898 ppm	0.4842 ppm	0.4919 ppm	0.5074 ppm	0.5154 ppm	0.4964 ppm
Concentration per Run 1	0.5021 ppm	0.4850 ppm	0.4849 ppm	0.4953 ppm	0.5035 ppm	0.5122 ppm	0.4930 ppm
Concentration per Run 2	0.4983 ppm	0.4916 ppm	0.4859 ppm	0.4921 ppm	0.5086 ppm	0.5183 ppm	0.5002 ppm
Concentration per Run 3	0.4981 ppm	0.4928 ppm	0.4820 ppm	0.4884 ppm	0.5102 ppm	0.5158 ppm	0.4958 ppm
Recovery Percentage 1	99.900 %	97.960 %	96.849 %	98.380 %	101.480 %	103.088 %	99.273 %
Concentration RSD	0.5 %	0.9 %	0.4 %	0.7 %	0.7 %	0.6 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5020 ppm	0.5053 ppm	0.4929 ppm	0.4925 ppm	0.5180 ppm	5.3065 ppm	0.4998 ppm
Concentration per Run 1	0.5063 ppm	0.5084 ppm	0.4953 ppm	0.4941 ppm	0.5107 ppm	5.2854 ppm	0.4977 ppm
Concentration per Run 2	0.5017 ppm	0.5045 ppm	0.4919 ppm	0.4915 ppm	0.5215 ppm	5.3459 ppm	0.5061 ppm
Concentration per Run 3	0.4982 ppm	0.5030 ppm	0.4915 ppm	0.4919 ppm	0.5218 ppm	5.2882 ppm	0.4957 ppm
Recovery Percentage 1	100.409 %	101.058 %	98.583 %	98.498 %	103.601 %	106.131 %	99.969 %
Concentration RSD	0.8 %	0.5 %	0.4 %	0.3 %	1.2 %	0.6 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4872 ppm	0.5015 ppm	0.4965 ppm	10.1857 ppm	0.5047 ppm	0.4962 ppm	0.5003 ppm
Concentration per Run 1	0.4899 ppm	0.4976 ppm	0.4968 ppm	10.0693 ppm	0.5061 ppm	0.4959 ppm	0.5016 ppm
Concentration per Run 2	0.4869 ppm	0.5031 ppm	0.4958 ppm	10.2093 ppm	0.5044 ppm	0.4947 ppm	0.4960 ppm
Concentration per Run 3	0.4847 ppm	0.5037 ppm	0.4969 ppm	10.2787 ppm	0.5037 ppm	0.4980 ppm	0.5031 ppm
Recovery Percentage 1	97.433 %	100.291 %	99.302 %	101.857 %	100.944 %	99.242 %	100.051 %
Concentration RSD	0.5 %	0.7 %	0.1 %	1.0 %	0.2 %	0.3 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4976 ppm	5.5485 ppm	0.4824 ppm	0.4868 ppm	0.4958 ppm	0.4938 ppm	0.4985 ppm
Concentration per Run 1	0.4967 ppm	5.5712 ppm	0.4832 ppm	0.4839 ppm	0.4978 ppm	0.4953 ppm	0.4991 ppm
Concentration per Run 2	0.4984 ppm	5.5351 ppm	0.4839 ppm	0.4881 ppm	0.4959 ppm	0.4937 ppm	0.4982 ppm
Concentration per Run 3	0.4976 ppm	5.5392 ppm	0.4803 ppm	0.4883 ppm	0.4939 ppm	0.4924 ppm	0.4982 ppm
Recovery Percentage 1	99.510 %	105.685 %	96.486 %	97.352 %	99.169 %	98.756 %	99.705 %
Concentration RSD	0.2 %	0.4 %	0.4 %	0.5 %	0.4 %	0.3 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4987 ppm	95.9275 %	104.3372 %	93.9803 %	92.5491 %	101.9843 %	93.8243 %
Concentration per Run 1	0.5018 ppm	95.1423 %	105.4229 %	93.9768 %	91.9699 %	102.8191 %	93.9847 %
Concentration per Run 2	0.4992 ppm	96.0504 %	103.6674 %	94.1261 %	92.4900 %	101.5356 %	93.7201 %
Concentration per Run 3	0.4952 ppm	96.5897 %	103.9212 %	93.8380 %	93.1874 %	101.5980 %	93.7681 %
Recovery Percentage 1	99.749 %						
Concentration RSD	0.7 %	0.8 %	0.9 %	0.2 %	0.7 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 6:21:05 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0023 ppm	-0.0001 ppm	0.0000 ppm	0.0077 ppm
Concentration per Run 1	-0.0004 ppm	-0.0059 ppm	0.0001 ppm	0.0024 ppm	-0.0002 ppm	0.0001 ppm	0.0055 ppm
Concentration per Run 2	0.0000 ppm	0.0032 ppm	-0.0009 ppm	0.0021 ppm	0.0001 ppm	0.0001 ppm	0.0070 ppm
Concentration per Run 3	-0.0002 ppm	0.0027 ppm	0.0007 ppm	0.0022 ppm	-0.0001 ppm	0.0000 ppm	0.0107 ppm
Recovery Percentage 1	-2.641 %	0.004 %	-0.734 %	7.565 %	-0.645 %	0.911 %	7.724 %
Concentration RSD	95.3 %	123,961.0 %	3,481.0 %	6.9 %	226.1 %	99.8 %	34.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0013 ppm	0.0038 ppm	0.0114 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0014 ppm	0.0034 ppm	0.0169 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	-0.0005 ppm	0.0000 ppm	0.0011 ppm	0.0050 ppm	0.0194 ppm	-0.0006 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0014 ppm	0.0031 ppm	-0.0021 ppm	-0.0002 ppm
Recovery Percentage 1	1.442 %	-0.083 %	0.318 %	13.098 %	7.609 %	0.456 %	-2.243 %
Concentration RSD	78.4 %	2,618.2 %	302.5 %	15.8 %	26.7 %	103.1 %	134.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0010 ppm	0.0001 ppm	0.0023 ppm	0.0123 ppm	-0.0002 ppm	-0.0004 ppm	0.0005 ppm
Concentration per Run 1	0.0010 ppm	0.0002 ppm	0.0026 ppm	0.0091 ppm	-0.0002 ppm	0.0005 ppm	0.0012 ppm
Concentration per Run 2	0.0017 ppm	0.0002 ppm	0.0021 ppm	0.0120 ppm	-0.0002 ppm	-0.0006 ppm	0.0003 ppm
Concentration per Run 3	0.0004 ppm	0.0000 ppm	0.0024 ppm	0.0158 ppm	-0.0001 ppm	-0.0012 ppm	-0.0001 ppm
Recovery Percentage 1	1.027 %	1.034 %	4.669 %	0.614 %	-0.729 %	-4.202 %	0.993 %
Concentration RSD	62.0 %	91.6 %	10.5 %	27.2 %	41.2 %	193.4 %	133.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	-0.0036 ppm	0.0017 ppm	0.0000 ppm	0.0003 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 1	0.0007 ppm	-0.0032 ppm	0.0020 ppm	0.0000 ppm	0.0002 ppm	-0.0014 ppm	0.0001 ppm
Concentration per Run 2	0.0010 ppm	-0.0031 ppm	0.0018 ppm	0.0000 ppm	0.0004 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 3	0.0006 ppm	-0.0045 ppm	0.0014 ppm	0.0000 ppm	0.0005 ppm	-0.0007 ppm	-0.0001 ppm
Recovery Percentage 1	7.727 %	-0.720 %	3.431 %	0.212 %	3.487 %	-5.140 %	0.390 %
Concentration RSD	31.8 %	22.2 %	17.8 %	107.0 %	46.6 %	32.6 %	274.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	92.7334 %	101.6861 %	92.8684 %	92.6714 %	101.8706 %	94.2023 %
Concentration per Run 1	0.0006 ppm	91.4196 %	101.6277 %	93.0800 %	91.8954 %	101.7872 %	94.1693 %
Concentration per Run 2	0.0007 ppm	92.8530 %	102.6230 %	92.7415 %	92.7749 %	102.8954 %	94.2401 %
Concentration per Run 3	0.0005 ppm	93.9275 %	100.8077 %	92.7837 %	93.3440 %	100.9293 %	94.1976 %
Recovery Percentage 1	12.207 %						
Concentration RSD	20.9 %	1.4 %	0.9 %	0.2 %	0.8 %	1.0 %	0.0 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454085-04D2 WG1976295
Analysis started at: 9/26/2024 6:26:57 PM
Rack 2
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	116.1300 ppm	0.0314 ppm	0.0152 ppm	0.5503 ppm	0.0092 ppm	20.8480 ppm
Concentration per Run 1	-0.0009 ppm	115.4604 ppm	0.0318 ppm	0.0143 ppm	0.5474 ppm	0.0090 ppm	20.6517 ppm
Concentration per Run 2	-0.0002 ppm	116.8444 ppm	0.0310 ppm	0.0157 ppm	0.5517 ppm	0.0092 ppm	20.9267 ppm
Concentration per Run 3	-0.0005 ppm	116.0851 ppm	0.0316 ppm	0.0156 ppm	0.5518 ppm	0.0094 ppm	20.9657 ppm
Concentration RSD	66.7 %	0.6 %	1.4 %	5.2 %	0.5 %	2.0 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0785 ppm	0.2324 ppm	0.2231 ppm	153.0255 ppm	19.7199 ppm	0.1826 ppm
Concentration per Run 1	0.0001 ppm	0.0791 ppm	0.2339 ppm	0.2247 ppm	152.1964 ppm	19.6302 ppm	0.1798 ppm
Concentration per Run 2	0.0001 ppm	0.0781 ppm	0.2325 ppm	0.2222 ppm	154.1437 ppm	19.8581 ppm	0.1836 ppm
Concentration per Run 3	0.0002 ppm	0.0782 ppm	0.2306 ppm	0.2226 ppm	152.7364 ppm	19.6713 ppm	0.1843 ppm
Concentration RSD	65.9 %	0.7 %	0.7 %	0.6 %	0.7 %	0.6 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	50.9588 ppm	2.9527 ppm	0.0033 ppm	1.3944 ppm	0.1604 ppm	0.1522 ppm	0.0004 ppm
Concentration per Run 1	51.2841 ppm	2.9397 ppm	0.0030 ppm	1.3855 ppm	0.1606 ppm	0.1504 ppm	-0.0022 ppm
Concentration per Run 2	51.0245 ppm	2.9591 ppm	0.0034 ppm	1.4072 ppm	0.1609 ppm	0.1533 ppm	0.0039 ppm
Concentration per Run 3	50.5678 ppm	2.9593 ppm	0.0035 ppm	1.3904 ppm	0.1597 ppm	0.1529 ppm	-0.0006 ppm
Concentration RSD	0.7 %	0.4 %	8.9 %	0.8 %	0.4 %	1.0 %	864.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	3.1388 ppm	0.0082 ppm	0.0869 ppm	7.8752 ppm	0.0060 ppm	0.4676 ppm
Concentration per Run 1	-0.0014 ppm	3.1423 ppm	0.0085 ppm	0.0859 ppm	7.9127 ppm	0.0055 ppm	0.4712 ppm
Concentration per Run 2	0.0024 ppm	3.1435 ppm	0.0083 ppm	0.0873 ppm	7.8777 ppm	0.0054 ppm	0.4666 ppm
Concentration per Run 3	-0.0010 ppm	3.1307 ppm	0.0078 ppm	0.0874 ppm	7.8351 ppm	0.0071 ppm	0.4650 ppm
Concentration RSD	8,999.4 %	0.2 %	4.6 %	0.9 %	0.5 %	16.7 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3501 ppm	109.2860 %	111.4104 %	92.5950 %	140.8339 %	**149.4343 %**	143.9321 %
Concentration per Run 1	0.3505 ppm	108.3081 %	112.5254 %	92.6014 %	139.6663 %	**150.3568 %**	144.0201 %
Concentration per Run 2	0.3522 ppm	109.4269 %	110.8208 %	92.4625 %	141.2409 %	**149.2638 %**	143.6341 %
Concentration per Run 3	0.3478 ppm	110.1229 %	110.8849 %	92.7210 %	141.5946 %	**148.6822 %**	144.1420 %
Concentration RSD	0.6 %	0.8 %	0.9 %	0.1 %	0.7 %	**0.6 %**	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454097-02D2 WG1976295
Analysis started at: 9/26/2024 6:31:13 PM
Rack 2
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	77.5137 ppm	0.0410 ppm	0.0435 ppm	0.7321 ppm	0.0041 ppm	56.3935 ppm
Concentration per Run 1	0.0006 ppm	77.5167 ppm	0.0408 ppm	0.0445 ppm	0.7292 ppm	0.0041 ppm	55.9682 ppm
Concentration per Run 2	0.0005 ppm	77.0327 ppm	0.0397 ppm	0.0431 ppm	0.7302 ppm	0.0041 ppm	56.5536 ppm
Concentration per Run 3	0.0011 ppm	77.9915 ppm	0.0425 ppm	0.0428 ppm	0.7370 ppm	0.0041 ppm	56.6586 ppm
Concentration RSD	41.7 %	0.6 %	3.4 %	2.0 %	0.6 %	0.4 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0021 ppm	0.0538 ppm	0.1737 ppm	0.3149 ppm	134.3141 ppm	4.3845 ppm	0.0726 ppm
Concentration per Run 1	0.0021 ppm	0.0556 ppm	0.1766 ppm	0.3195 ppm	133.1852 ppm	4.3963 ppm	0.0726 ppm
Concentration per Run 2	0.0021 ppm	0.0532 ppm	0.1729 ppm	0.3129 ppm	134.1461 ppm	4.3656 ppm	0.0722 ppm
Concentration per Run 3	0.0022 ppm	0.0526 ppm	0.1716 ppm	0.3123 ppm	135.6110 ppm	4.3914 ppm	0.0730 ppm
Concentration RSD	3.8 %	2.9 %	1.5 %	1.3 %	0.9 %	0.4 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	27.9528 ppm	2.8035 ppm	0.0034 ppm	1.5717 ppm	0.1171 ppm	1.1894 ppm	0.0062 ppm
Concentration per Run 1	28.3686 ppm	2.7862 ppm	0.0038 ppm	1.5688 ppm	0.1187 ppm	1.1902 ppm	0.0059 ppm
Concentration per Run 2	27.8769 ppm	2.8063 ppm	0.0032 ppm	1.5703 ppm	0.1171 ppm	1.1870 ppm	0.0083 ppm
Concentration per Run 3	27.6130 ppm	2.8180 ppm	0.0032 ppm	1.5761 ppm	0.1156 ppm	1.1910 ppm	0.0044 ppm
Concentration RSD	1.4 %	0.6 %	9.9 %	0.2 %	1.3 %	0.2 %	31.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0028 ppm	4.8919 ppm	0.0239 ppm	0.2824 ppm	2.5445 ppm	0.0012 ppm	0.2336 ppm
Concentration per Run 1	0.0021 ppm	4.9798 ppm	0.0237 ppm	0.2818 ppm	2.5803 ppm	0.0019 ppm	0.2376 ppm
Concentration per Run 2	0.0021 ppm	4.8450 ppm	0.0243 ppm	0.2809 ppm	2.5384 ppm	0.0003 ppm	0.2339 ppm
Concentration per Run 3	0.0043 ppm	4.8509 ppm	0.0238 ppm	0.2846 ppm	2.5147 ppm	0.0015 ppm	0.2294 ppm
Concentration RSD	44.2 %	1.6 %	1.5 %	0.7 %	1.3 %	69.8 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.7530 ppm	95.1920 %	103.5540 %	89.1382 %	107.7160 %	121.6511 %	112.1247 %
Concentration per Run 1	1.7816 ppm	93.6696 %	105.2389 %	89.2641 %	106.1400 %	123.3162 %	112.3090 %
Concentration per Run 2	1.7305 ppm	95.1835 %	102.6569 %	89.3958 %	107.1448 %	120.9430 %	112.3536 %
Concentration per Run 3	1.7468 ppm	96.7228 %	102.7662 %	88.7546 %	109.8633 %	120.6939 %	111.7117 %
Concentration RSD	1.5 %	1.6 %	1.4 %	0.4 %	1.8 %	1.2 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454097-04D2 WG1976295
Analysis started at: 9/26/2024 6:35:11 PM
Rack 2
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	72.6956 ppm	0.0533 ppm	0.0344 ppm	0.8158 ppm	0.0046 ppm	58.9086 ppm
Concentration per Run 1	0.0017 ppm	72.1423 ppm	0.0536 ppm	0.0359 ppm	0.8027 ppm	0.0047 ppm	59.2019 ppm
Concentration per Run 2	0.0011 ppm	73.7987 ppm	0.0538 ppm	0.0334 ppm	0.8408 ppm	0.0044 ppm	58.1620 ppm
Concentration per Run 3	0.0013 ppm	72.1457 ppm	0.0524 ppm	0.0339 ppm	0.8038 ppm	0.0048 ppm	59.3619 ppm
Concentration RSD	21.7 %	1.3 %	1.5 %	3.8 %	2.7 %	3.8 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0112 ppm	0.0487 ppm	0.1329 ppm	0.2866 ppm	140.4185 ppm	5.0983 ppm	0.0822 ppm
Concentration per Run 1	0.0113 ppm	0.0495 ppm	0.1332 ppm	0.2901 ppm	138.9841 ppm	4.9847 ppm	0.0815 ppm
Concentration per Run 2	0.0112 ppm	0.0490 ppm	0.1337 ppm	0.2859 ppm	143.6481 ppm	5.3855 ppm	0.0874 ppm
Concentration per Run 3	0.0112 ppm	0.0476 ppm	0.1318 ppm	0.2837 ppm	138.6233 ppm	4.9248 ppm	0.0778 ppm
Concentration RSD	0.5 %	2.0 %	0.7 %	1.1 %	2.0 %	4.9 %	5.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.6756 ppm	3.3991 ppm	0.0035 ppm	1.1779 ppm	0.1151 ppm	1.9430 ppm	0.0067 ppm
Concentration per Run 1	21.8206 ppm	3.3801 ppm	0.0032 ppm	1.1556 ppm	0.1155 ppm	1.9475 ppm	0.0053 ppm
Concentration per Run 2	21.8519 ppm	3.4226 ppm	0.0034 ppm	1.2306 ppm	0.1156 ppm	1.9441 ppm	0.0050 ppm
Concentration per Run 3	21.3542 ppm	3.3946 ppm	0.0037 ppm	1.1474 ppm	0.1141 ppm	1.9375 ppm	0.0096 ppm
Concentration RSD	1.3 %	0.6 %	7.6 %	3.9 %	0.7 %	0.3 %	38.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	4.3900 ppm	0.0516 ppm	0.3571 ppm	1.8056 ppm	0.0014 ppm	0.2148 ppm
Concentration per Run 1	0.0020 ppm	4.4183 ppm	0.0522 ppm	0.3584 ppm	1.8069 ppm	0.0024 ppm	0.2152 ppm
Concentration per Run 2	0.0006 ppm	4.3896 ppm	0.0519 ppm	0.3509 ppm	1.8143 ppm	0.0007 ppm	0.2166 ppm
Concentration per Run 3	0.0033 ppm	4.3621 ppm	0.0508 ppm	0.3620 ppm	1.7957 ppm	0.0010 ppm	0.2128 ppm
Concentration RSD	69.5 %	0.6 %	1.5 %	1.6 %	0.5 %	64.7 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	14.4757 ppm	95.0904 %	103.8662 %	89.9280 %	109.5166 %	123.6618 %	113.9211 %
Concentration per Run 1	14.5915 ppm	94.9197 %	102.3408 %	90.0730 %	109.5318 %	122.7548 %	114.2003 %
Concentration per Run 2	14.5721 ppm	93.9297 %	107.7599 %	89.6809 %	108.2813 %	126.6781 %	113.6674 %
Concentration per Run 3	14.2635 ppm	96.4219 %	101.4979 %	90.0301 %	110.7366 %	121.5523 %	113.8957 %
Concentration RSD	1.3 %	1.3 %	3.3 %	0.2 %	1.1 %	2.2 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454098-02D2 WG1976295
Analysis started at: 9/26/2024 6:39:09 PM
Rack 2
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	174.1450 ppm	0.0410 ppm	0.1449 ppm	0.8700 ppm	0.0040 ppm	613.7981 ppm
Concentration per Run 1	0.0014 ppm	173.6358 ppm	0.0392 ppm	0.1452 ppm	0.8648 ppm	0.0039 ppm	607.3451 ppm
Concentration per Run 2	0.0014 ppm	174.0965 ppm	0.0426 ppm	0.1450 ppm	0.8728 ppm	0.0040 ppm	614.7359 ppm
Concentration per Run 3	0.0011 ppm	174.7028 ppm	0.0411 ppm	0.1444 ppm	0.8725 ppm	0.0041 ppm	619.3133 ppm
Concentration RSD	11.7 %	0.3 %	4.1 %	0.3 %	0.5 %	2.7 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.0900 ppm	0.3772 ppm	0.5868 ppm	184.5815 ppm	7.9770 ppm	0.0804 ppm
Concentration per Run 1	0.0018 ppm	0.0906 ppm	0.3818 ppm	0.5900 ppm	182.8313 ppm	7.9539 ppm	0.0802 ppm
Concentration per Run 2	0.0020 ppm	0.0896 ppm	0.3745 ppm	0.5847 ppm	184.4133 ppm	7.9828 ppm	0.0809 ppm
Concentration per Run 3	0.0020 ppm	0.0898 ppm	0.3753 ppm	0.5858 ppm	186.5001 ppm	7.9941 ppm	0.0802 ppm
Concentration RSD	5.8 %	0.6 %	1.1 %	0.5 %	1.0 %	0.3 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	79.2544 ppm	2.2737 ppm	0.0277 ppm	18.5537 ppm	0.3156 ppm	0.0263 ppm	0.0024 ppm
Concentration per Run 1	80.1330 ppm	2.2655 ppm	0.0276 ppm	18.5820 ppm	0.3191 ppm	0.0262 ppm	0.0036 ppm
Concentration per Run 2	78.9306 ppm	2.2763 ppm	0.0272 ppm	18.5472 ppm	0.3135 ppm	0.0260 ppm	0.0021 ppm
Concentration per Run 3	78.6998 ppm	2.2793 ppm	0.0282 ppm	18.5319 ppm	0.3143 ppm	0.0265 ppm	0.0016 ppm
Concentration RSD	1.0 %	0.3 %	1.7 %	0.1 %	1.0 %	1.0 %	44.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0070 ppm	2.7243 ppm	0.0045 ppm	1.5944 ppm	14.8437 ppm	0.0081 ppm	1.1916 ppm
Concentration per Run 1	0.0076 ppm	2.7399 ppm	0.0040 ppm	1.5803 ppm	14.9327 ppm	0.0076 ppm	1.2022 ppm
Concentration per Run 2	0.0068 ppm	2.7137 ppm	0.0038 ppm	1.5981 ppm	14.7507 ppm	0.0101 ppm	1.1878 ppm
Concentration per Run 3	0.0065 ppm	2.7194 ppm	0.0057 ppm	1.6047 ppm	14.8477 ppm	0.0066 ppm	1.1847 ppm
Concentration RSD	8.3 %	0.5 %	22.4 %	0.8 %	0.6 %	21.9 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5257 ppm	91.0484 %	104.0327 %	69.3558 %	102.3942 %	122.5526 %	105.5918 %
Concentration per Run 1	0.5327 ppm	90.3129 %	106.1611 %	69.6394 %	102.1093 %	124.6476 %	105.6540 %
Concentration per Run 2	0.5216 ppm	91.5786 %	103.7374 %	69.9158 %	102.9936 %	121.9865 %	106.0157 %
Concentration per Run 3	0.5227 ppm	91.2536 %	102.1997 %	68.5121 %	102.0796 %	121.0238 %	105.1058 %
Concentration RSD	1.2 %	0.7 %	1.9 %	1.1 %	0.5 %	1.5 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454865-01D2 WG1976295
Analysis started at: 9/26/2024 6:43:07 PM
Rack 2
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	88.4075 ppm	0.0462 ppm	0.0379 ppm	0.1366 ppm	0.0044 ppm	10.7799 ppm
Concentration per Run 1	0.0001 ppm	88.0899 ppm	0.0474 ppm	0.0387 ppm	0.1360 ppm	0.0043 ppm	10.7995 ppm
Concentration per Run 2	-0.0005 ppm	88.4177 ppm	0.0464 ppm	0.0372 ppm	0.1373 ppm	0.0044 ppm	10.7239 ppm
Concentration per Run 3	-0.0004 ppm	88.7149 ppm	0.0447 ppm	0.0380 ppm	0.1364 ppm	0.0043 ppm	10.8162 ppm
Concentration RSD	108.7 %	0.4 %	2.9 %	2.0 %	0.5 %	1.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0020 ppm	0.0110 ppm	0.4667 ppm	0.0480 ppm	139.9088 ppm	6.5994 ppm	0.0421 ppm
Concentration per Run 1	0.0021 ppm	0.0106 ppm	0.4725 ppm	0.0493 ppm	139.6804 ppm	6.5983 ppm	0.0426 ppm
Concentration per Run 2	0.0021 ppm	0.0111 ppm	0.4674 ppm	0.0475 ppm	139.8708 ppm	6.5863 ppm	0.0417 ppm
Concentration per Run 3	0.0019 ppm	0.0114 ppm	0.4602 ppm	0.0471 ppm	140.1752 ppm	6.6136 ppm	0.0420 ppm
Concentration RSD	6.1 %	3.5 %	1.3 %	2.4 %	0.2 %	0.2 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.6560 ppm	0.6151 ppm	0.0004 ppm	0.5741 ppm	0.1299 ppm	0.0874 ppm	-0.0016 ppm
Concentration per Run 1	5.7199 ppm	0.6138 ppm	0.0001 ppm	0.5706 ppm	0.1321 ppm	0.0882 ppm	-0.0012 ppm
Concentration per Run 2	5.6761 ppm	0.6158 ppm	0.0007 ppm	0.5767 ppm	0.1299 ppm	0.0868 ppm	-0.0017 ppm
Concentration per Run 3	5.5721 ppm	0.6158 ppm	0.0003 ppm	0.5748 ppm	0.1275 ppm	0.0871 ppm	-0.0020 ppm
Concentration RSD	1.3 %	0.2 %	77.7 %	0.5 %	1.8 %	0.9 %	26.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0055 ppm	4.5354 ppm	0.0044 ppm	0.0684 ppm	0.2555 ppm	0.0007 ppm	0.4093 ppm
Concentration per Run 1	0.0048 ppm	4.6007 ppm	0.0047 ppm	0.0684 ppm	0.2580 ppm	0.0009 ppm	0.4125 ppm
Concentration per Run 2	0.0064 ppm	4.5252 ppm	0.0045 ppm	0.0687 ppm	0.2553 ppm	0.0005 ppm	0.4102 ppm
Concentration per Run 3	0.0052 ppm	4.4802 ppm	0.0040 ppm	0.0680 ppm	0.2533 ppm	0.0006 ppm	0.4052 ppm
Concentration RSD	15.4 %	1.3 %	8.1 %	0.5 %	0.9 %	32.7 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4612 ppm	95.5759 %	108.3621 %	93.4051 %	95.7700 %	111.0194 %	100.6036 %
Concentration per Run 1	0.4680 ppm	94.7102 %	108.3932 %	93.6982 %	95.3263 %	111.1883 %	100.9027 %
Concentration per Run 2	0.4623 ppm	95.2949 %	109.6248 %	93.3014 %	95.2752 %	112.5215 %	100.5922 %
Concentration per Run 3	0.4532 ppm	96.7226 %	107.0684 %	93.2156 %	96.7086 %	109.3485 %	100.3158 %
Concentration RSD	1.6 %	1.1 %	1.2 %	0.3 %	0.8 %	1.4 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2452560-01D2 WG1976295
Analysis started at: 9/26/2024 6:47:05 PM
Rack 2
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	84.8519 ppm	0.0950 ppm	0.0396 ppm	0.0925 ppm	0.0025 ppm	9.5650 ppm
Concentration per Run 1	-0.0009 ppm	84.2755 ppm	0.0940 ppm	0.0391 ppm	0.0914 ppm	0.0025 ppm	9.5596 ppm
Concentration per Run 2	-0.0004 ppm	85.1013 ppm	0.0948 ppm	0.0400 ppm	0.0923 ppm	0.0026 ppm	9.5721 ppm
Concentration per Run 3	-0.0010 ppm	85.1790 ppm	0.0961 ppm	0.0396 ppm	0.0936 ppm	0.0025 ppm	9.5632 ppm
Concentration RSD	44.5 %	0.6 %	1.1 %	1.2 %	1.2 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.2139 ppm	0.1795 ppm	0.2477 ppm	236.3608 ppm	4.8124 ppm	0.1844 ppm
Concentration per Run 1	0.0003 ppm	0.2168 ppm	0.1817 ppm	0.2493 ppm	235.0504 ppm	4.7663 ppm	0.1832 ppm
Concentration per Run 2	0.0005 ppm	0.2126 ppm	0.1789 ppm	0.2475 ppm	234.4342 ppm	4.8311 ppm	0.1828 ppm
Concentration per Run 3	0.0002 ppm	0.2125 ppm	0.1781 ppm	0.2462 ppm	239.5979 ppm	4.8398 ppm	0.1873 ppm
Concentration RSD	46.0 %	1.1 %	1.0 %	0.6 %	1.2 %	0.8 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	33.6936 ppm	2.0896 ppm	0.0145 ppm	20.5894 ppm	0.1985 ppm	0.1260 ppm	0.0187 ppm
Concentration per Run 1	34.2538 ppm	2.0807 ppm	0.0142 ppm	20.3900 ppm	0.2015 ppm	0.1244 ppm	0.0212 ppm
Concentration per Run 2	33.5033 ppm	2.0961 ppm	0.0148 ppm	20.7745 ppm	0.1967 ppm	0.1266 ppm	0.0185 ppm
Concentration per Run 3	33.3236 ppm	2.0919 ppm	0.0146 ppm	20.6037 ppm	0.1974 ppm	0.1269 ppm	0.0163 ppm
Concentration RSD	1.5 %	0.4 %	1.9 %	0.9 %	1.3 %	1.1 %	13.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0027 ppm	7.7007 ppm	0.0105 ppm	0.0959 ppm	1.0083 ppm	0.0014 ppm	0.1654 ppm
Concentration per Run 1	0.0018 ppm	7.7768 ppm	0.0110 ppm	0.0955 ppm	1.0196 ppm	0.0023 ppm	0.1675 ppm
Concentration per Run 2	0.0036 ppm	7.7015 ppm	0.0104 ppm	0.0956 ppm	1.0020 ppm	0.0005 ppm	0.1643 ppm
Concentration per Run 3	0.0028 ppm	7.6238 ppm	0.0102 ppm	0.0966 ppm	1.0033 ppm	0.0015 ppm	0.1643 ppm
Concentration RSD	32.0 %	1.0 %	4.1 %	0.6 %	1.0 %	63.0 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5751 ppm	93.9127 %	102.8728 %	88.9331 %	100.1676 %	114.4424 %	105.2220 %
Concentration per Run 1	0.5836 ppm	92.3394 %	102.8291 %	89.2649 %	98.1619 %	114.2135 %	105.6543 %
Concentration per Run 2	0.5724 ppm	94.5169 %	102.4206 %	89.1388 %	101.1207 %	113.4004 %	105.3012 %
Concentration per Run 3	0.5693 ppm	94.8818 %	103.3686 %	88.3958 %	101.2202 %	115.7134 %	104.7106 %
Concentration RSD	1.3 %	1.5 %	0.5 %	0.5 %	1.7 %	1.0 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976295-3D2 WG1976295
Analysis started at: 9/26/2024 6:51:03 PM
Rack 2
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0518 ppm	69.9369 ppm	0.1713 ppm	0.9922 ppm	2.0904 ppm	0.0553 ppm	110.1887 ppm
Concentration per Run 1	0.0521 ppm	69.1131 ppm	0.1692 ppm	0.9936 ppm	2.0504 ppm	0.0560 ppm	110.6800 ppm
Concentration per Run 2	0.0515 ppm	69.7179 ppm	0.1694 ppm	0.9963 ppm	2.0816 ppm	0.0560 ppm	111.0404 ppm
Concentration per Run 3	0.0518 ppm	70.9797 ppm	0.1752 ppm	0.9868 ppm	2.1393 ppm	0.0538 ppm	108.8455 ppm
Concentration RSD	0.6 %	1.4 %	2.0 %	0.5 %	2.2 %	2.2 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0507 ppm	0.5551 ppm	0.3988 ppm	0.4187 ppm	176.3018 ppm	13.8324 ppm	0.1675 ppm
Concentration per Run 1	0.0510 ppm	0.5575 ppm	0.3988 ppm	0.4199 ppm	172.8946 ppm	13.4304 ppm	0.1641 ppm
Concentration per Run 2	0.0508 ppm	0.5574 ppm	0.4003 ppm	0.4188 ppm	175.6477 ppm	13.5744 ppm	0.1621 ppm
Concentration per Run 3	0.0504 ppm	0.5504 ppm	0.3975 ppm	0.4173 ppm	180.3632 ppm	14.4925 ppm	0.1764 ppm
Concentration RSD	0.5 %	0.7 %	0.4 %	0.3 %	2.1 %	4.2 %	4.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	38.3516 ppm	2.4068 ppm	0.9634 ppm	31.8183 ppm	0.6423 ppm	0.6623 ppm	0.5010 ppm
Concentration per Run 1	38.4938 ppm	2.3951 ppm	0.9577 ppm	30.8377 ppm	0.6407 ppm	0.6638 ppm	0.5039 ppm
Concentration per Run 2	38.3706 ppm	2.4112 ppm	0.9650 ppm	31.2693 ppm	0.6451 ppm	0.6587 ppm	0.5037 ppm
Concentration per Run 3	38.1903 ppm	2.4141 ppm	0.9676 ppm	33.3479 ppm	0.6411 ppm	0.6643 ppm	0.4956 ppm
Concentration RSD	0.4 %	0.4 %	0.5 %	4.2 %	0.4 %	0.5 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1260 ppm	8.2252 ppm	0.9535 ppm	1.9476 ppm	2.1005 ppm	0.1158 ppm	0.6628 ppm
Concentration per Run 1	0.1241 ppm	8.3029 ppm	0.9485 ppm	1.9661 ppm	2.1135 ppm	0.1150 ppm	0.6651 ppm
Concentration per Run 2	0.1261 ppm	8.2156 ppm	0.9617 ppm	1.9702 ppm	2.1060 ppm	0.1151 ppm	0.6627 ppm
Concentration per Run 3	0.1278 ppm	8.1571 ppm	0.9502 ppm	1.9064 ppm	2.0820 ppm	0.1172 ppm	0.6607 ppm
Concentration RSD	1.5 %	0.9 %	0.8 %	1.8 %	0.8 %	1.1 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0043 ppm	92.0862 %	102.3777 %	84.6696 %	95.6796 %	110.2917 %	98.6362 %
Concentration per Run 1	1.0058 ppm	91.6718 %	101.1011 %	85.0705 %	95.0824 %	109.6724 %	98.7778 %
Concentration per Run 2	1.0102 ppm	91.7952 %	101.0233 %	84.4790 %	95.4057 %	109.2474 %	98.5593 %
Concentration per Run 3	0.9969 ppm	92.7918 %	105.0087 %	84.4593 %	96.5508 %	111.9553 %	98.5713 %
Concentration RSD	0.7 %	0.7 %	2.2 %	0.4 %	0.8 %	1.3 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976295-4D2 WG1976295
Analysis started at: 9/26/2024 6:55:02 PM
Rack 2
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	69.2256 ppm	0.0663 ppm	0.0350 ppm	0.0819 ppm	0.0022 ppm	10.3357 ppm
Concentration per Run 1	-0.0005 ppm	69.3122 ppm	0.0669 ppm	0.0321 ppm	0.0823 ppm	0.0022 ppm	10.2770 ppm
Concentration per Run 2	-0.0005 ppm	69.4208 ppm	0.0661 ppm	0.0359 ppm	0.0825 ppm	0.0022 ppm	10.3650 ppm
Concentration per Run 3	0.0003 ppm	68.9439 ppm	0.0659 ppm	0.0371 ppm	0.0810 ppm	0.0022 ppm	10.3649 ppm
Concentration RSD	221.9 %	0.4 %	0.8 %	7.4 %	1.0 %	1.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0704 ppm	0.1457 ppm	0.1888 ppm	201.7485 ppm	3.7777 ppm	0.1586 ppm
Concentration per Run 1	0.0002 ppm	0.0668 ppm	0.1385 ppm	0.1777 ppm	202.4596 ppm	3.8379 ppm	0.1595 ppm
Concentration per Run 2	0.0005 ppm	0.0725 ppm	0.1500 ppm	0.1950 ppm	202.8848 ppm	3.7921 ppm	0.1597 ppm
Concentration per Run 3	0.0005 ppm	0.0718 ppm	0.1487 ppm	0.1936 ppm	199.9012 ppm	3.7031 ppm	0.1565 ppm
Concentration RSD	36.6 %	4.4 %	4.3 %	5.1 %	0.8 %	1.8 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	29.6724 ppm	1.7200 ppm	0.0156 ppm	20.7762 ppm	0.1501 ppm	0.1073 ppm	0.0171 ppm
Concentration per Run 1	28.2500 ppm	1.7214 ppm	0.0146 ppm	20.8192 ppm	0.1430 ppm	0.1079 ppm	0.0180 ppm
Concentration per Run 2	30.5440 ppm	1.7213 ppm	0.0164 ppm	20.8822 ppm	0.1551 ppm	0.1075 ppm	0.0152 ppm
Concentration per Run 3	30.2231 ppm	1.7174 ppm	0.0158 ppm	20.6271 ppm	0.1521 ppm	0.1065 ppm	0.0182 ppm
Concentration RSD	4.2 %	0.1 %	5.9 %	0.6 %	4.2 %	0.7 %	9.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	6.1637 ppm	0.0085 ppm	0.0869 ppm	1.0806 ppm	0.0014 ppm	0.1620 ppm
Concentration per Run 1	0.0015 ppm	5.8606 ppm	0.0087 ppm	0.0866 ppm	1.0290 ppm	0.0020 ppm	0.1541 ppm
Concentration per Run 2	0.0039 ppm	6.3284 ppm	0.0084 ppm	0.0872 ppm	1.1111 ppm	0.0015 ppm	0.1674 ppm
Concentration per Run 3	0.0014 ppm	6.3023 ppm	0.0082 ppm	0.0869 ppm	1.1017 ppm	0.0007 ppm	0.1645 ppm
Concentration RSD	63.9 %	4.3 %	2.9 %	0.4 %	4.2 %	46.5 %	4.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4932 ppm	95.6241 %	101.9371 %	88.7326 %	102.2467 %	113.1881 %	103.9229 %
Concentration per Run 1	0.4696 ppm	99.5712 %	102.5942 %	88.7424 %	107.0219 %	113.7800 %	103.9479 %
Concentration per Run 2	0.5054 ppm	92.9384 %	101.5717 %	88.8821 %	99.0538 %	113.1709 %	103.9503 %
Concentration per Run 3	0.5044 ppm	94.3628 %	101.6455 %	88.5732 %	100.6644 %	112.6134 %	103.8703 %
Concentration RSD	4.1 %	3.7 %	0.6 %	0.2 %	4.1 %	0.5 %	0.0 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976295-5D2 WG1976295
Analysis started at: 9/26/2024 6:59:00 PM
Rack 2
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0506 ppm	87.9472 ppm	0.2211 ppm	1.0012 ppm	2.0561 ppm	0.0531 ppm	19.1599 ppm
Concentration per Run 1	0.0506 ppm	86.5324 ppm	0.2234 ppm	1.0086 ppm	2.0146 ppm	0.0540 ppm	19.2378 ppm
Concentration per Run 2	0.0509 ppm	88.5860 ppm	0.2196 ppm	1.0031 ppm	2.0791 ppm	0.0525 ppm	19.0728 ppm
Concentration per Run 3	0.0503 ppm	88.7232 ppm	0.2202 ppm	0.9918 ppm	2.0745 ppm	0.0528 ppm	19.1691 ppm
Concentration RSD	0.5 %	1.4 %	0.9 %	0.9 %	1.7 %	1.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0504 ppm	0.6939 ppm	0.3741 ppm	0.5066 ppm	242.2377 ppm	15.2730 ppm	0.1957 ppm
Concentration per Run 1	0.0504 ppm	0.6979 ppm	0.3759 ppm	0.5086 ppm	237.5663 ppm	14.6903 ppm	0.1878 ppm
Concentration per Run 2	0.0506 ppm	0.6951 ppm	0.3748 ppm	0.5059 ppm	244.1139 ppm	15.5813 ppm	0.2007 ppm
Concentration per Run 3	0.0502 ppm	0.6888 ppm	0.3715 ppm	0.5051 ppm	245.0330 ppm	15.5475 ppm	0.1987 ppm
Concentration RSD	0.4 %	0.7 %	0.6 %	0.4 %	1.7 %	3.3 %	3.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	43.2371 ppm	2.5740 ppm	0.9431 ppm	31.4131 ppm	0.6816 ppm	0.6638 ppm	0.5124 ppm
Concentration per Run 1	43.3660 ppm	2.5540 ppm	0.9400 ppm	30.1234 ppm	0.6873 ppm	0.6653 ppm	0.5174 ppm
Concentration per Run 2	43.3740 ppm	2.5742 ppm	0.9426 ppm	32.0358 ppm	0.6822 ppm	0.6572 ppm	0.5118 ppm
Concentration per Run 3	42.9712 ppm	2.5939 ppm	0.9468 ppm	32.0799 ppm	0.6753 ppm	0.6690 ppm	0.5080 ppm
Concentration RSD	0.5 %	0.8 %	0.4 %	3.6 %	0.9 %	0.9 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1288 ppm	8.2941 ppm	0.9829 ppm	1.0631 ppm	1.9872 ppm	0.1165 ppm	0.6692 ppm
Concentration per Run 1	0.1280 ppm	8.3756 ppm	0.9881 ppm	1.0773 ppm	2.0020 ppm	0.1164 ppm	0.6730 ppm
Concentration per Run 2	0.1298 ppm	8.2981 ppm	0.9897 ppm	1.0559 ppm	1.9879 ppm	0.1164 ppm	0.6709 ppm
Concentration per Run 3	0.1285 ppm	8.2086 ppm	0.9709 ppm	1.0561 ppm	1.9716 ppm	0.1167 ppm	0.6636 ppm
Concentration RSD	0.7 %	1.0 %	1.1 %	1.2 %	0.8 %	0.1 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0412 ppm	93.2214 %	104.5068 %	85.9589 %	99.1069 %	115.1283 %	103.0704 %
Concentration per Run 1	1.0496 ppm	93.0157 %	103.6961 %	86.1646 %	99.0861 %	115.2366 %	103.2229 %
Concentration per Run 2	1.0433 ppm	92.7960 %	105.8726 %	86.2874 %	98.3688 %	115.8671 %	103.4012 %
Concentration per Run 3	1.0308 ppm	93.8526 %	103.9517 %	85.4248 %	99.8660 %	114.2811 %	102.5872 %
Concentration RSD	0.9 %	0.6 %	1.1 %	0.5 %	0.8 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976295-6D10 WG1976295
Analysis started at: 9/26/2024 7:02:58 PM
Rack 2
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	17.4413 ppm	0.0187 ppm	0.0103 ppm	0.0191 ppm	0.0005 ppm	1.8817 ppm
Concentration per Run 1	-0.0001 ppm	17.3857 ppm	0.0190 ppm	0.0117 ppm	0.0189 ppm	0.0004 ppm	1.8656 ppm
Concentration per Run 2	0.0000 ppm	17.3263 ppm	0.0175 ppm	0.0092 ppm	0.0192 ppm	0.0005 ppm	1.8877 ppm
Concentration per Run 3	-0.0001 ppm	17.6118 ppm	0.0197 ppm	0.0101 ppm	0.0192 ppm	0.0004 ppm	1.8919 ppm
Concentration RSD	66.8 %	0.9 %	5.8 %	12.4 %	1.0 %	12.5 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0440 ppm	0.0365 ppm	0.0494 ppm	51.6939 ppm	1.0417 ppm	0.0419 ppm
Concentration per Run 1	0.0001 ppm	0.0438 ppm	0.0366 ppm	0.0496 ppm	51.3245 ppm	1.0535 ppm	0.0427 ppm
Concentration per Run 2	0.0001 ppm	0.0438 ppm	0.0360 ppm	0.0487 ppm	51.5680 ppm	1.0246 ppm	0.0419 ppm
Concentration per Run 3	0.0001 ppm	0.0443 ppm	0.0369 ppm	0.0500 ppm	52.1891 ppm	1.0470 ppm	0.0410 ppm
Concentration RSD	7.6 %	0.7 %	1.1 %	1.3 %	0.9 %	1.5 %	2.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.8269 ppm	0.4266 ppm	0.0060 ppm	4.4196 ppm	0.0404 ppm	0.0247 ppm	0.0017 ppm
Concentration per Run 1	6.8289 ppm	0.4241 ppm	0.0060 ppm	4.3677 ppm	0.0406 ppm	0.0256 ppm	0.0010 ppm
Concentration per Run 2	6.7543 ppm	0.4268 ppm	0.0059 ppm	4.4383 ppm	0.0398 ppm	0.0250 ppm	0.0026 ppm
Concentration per Run 3	6.8974 ppm	0.4289 ppm	0.0061 ppm	4.4528 ppm	0.0408 ppm	0.0234 ppm	0.0013 ppm
Concentration RSD	1.0 %	0.6 %	2.1 %	1.0 %	1.3 %	4.5 %	49.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	1.5332 ppm	0.0045 ppm	0.0186 ppm	0.2011 ppm	0.0006 ppm	0.0325 ppm
Concentration per Run 1	0.0016 ppm	1.5394 ppm	0.0038 ppm	0.0185 ppm	0.2006 ppm	0.0005 ppm	0.0327 ppm
Concentration per Run 2	0.0014 ppm	1.5033 ppm	0.0052 ppm	0.0185 ppm	0.1987 ppm	0.0005 ppm	0.0323 ppm
Concentration per Run 3	0.0007 ppm	1.5570 ppm	0.0046 ppm	0.0187 ppm	0.2042 ppm	0.0008 ppm	0.0326 ppm
Concentration RSD	36.3 %	1.8 %	15.6 %	0.7 %	1.4 %	31.8 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1184 ppm	92.5798 %	104.3619 %	91.4995 %	91.9705 %	105.4032 %	95.1646 %
Concentration per Run 1	0.1191 ppm	92.5134 %	105.7527 %	90.6139 %	92.2385 %	106.7742 %	94.2650 %
Concentration per Run 2	0.1168 ppm	93.6975 %	103.7012 %	92.2580 %	92.7968 %	104.4030 %	95.7861 %
Concentration per Run 3	0.1194 ppm	91.5287 %	103.6319 %	91.6266 %	90.8761 %	105.0322 %	95.4426 %
Concentration RSD	1.2 %	1.2 %	1.2 %	0.9 %	1.1 %	1.2 %	0.8 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 7:06:57 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5037 ppm	0.4971 ppm	0.4886 ppm	0.4956 ppm	0.5090 ppm	0.5202 ppm	0.5025 ppm
Concentration per Run 1	0.5056 ppm	0.4981 ppm	0.4860 ppm	0.4970 ppm	0.5057 ppm	0.5184 ppm	0.4983 ppm
Concentration per Run 2	0.5016 ppm	0.4946 ppm	0.4913 ppm	0.4937 ppm	0.5097 ppm	0.5172 ppm	0.5045 ppm
Concentration per Run 3	0.5038 ppm	0.4987 ppm	0.4885 ppm	0.4962 ppm	0.5116 ppm	0.5249 ppm	0.5047 ppm
Recovery Percentage 1	100.740 %	99.423 %	97.717 %	99.130 %	101.801 %	104.033 %	100.499 %
Concentration RSD	0.4 %	0.5 %	0.5 %	0.3 %	0.6 %	0.8 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5080 ppm	0.5088 ppm	0.4998 ppm	0.4962 ppm	0.5286 ppm	5.3183 ppm	0.4995 ppm
Concentration per Run 1	0.5093 ppm	0.5098 ppm	0.5030 ppm	0.4979 ppm	0.5233 ppm	5.3287 ppm	0.4965 ppm
Concentration per Run 2	0.5067 ppm	0.5075 ppm	0.4966 ppm	0.4953 ppm	0.5307 ppm	5.3071 ppm	0.5010 ppm
Concentration per Run 3	0.5079 ppm	0.5090 ppm	0.4999 ppm	0.4954 ppm	0.5316 ppm	5.3192 ppm	0.5011 ppm
Recovery Percentage 1	101.595 %	101.757 %	99.963 %	99.246 %	105.711 %	106.367 %	99.903 %
Concentration RSD	0.3 %	0.2 %	0.6 %	0.3 %	0.9 %	0.2 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4938 ppm	0.5061 ppm	0.4997 ppm	10.2595 ppm	0.5100 ppm	0.5021 ppm	0.5006 ppm
Concentration per Run 1	0.4961 ppm	0.5047 ppm	0.4968 ppm	10.2673 ppm	0.5135 ppm	0.5010 ppm	0.5006 ppm
Concentration per Run 2	0.4906 ppm	0.5064 ppm	0.4984 ppm	10.2398 ppm	0.5078 ppm	0.5031 ppm	0.5020 ppm
Concentration per Run 3	0.4948 ppm	0.5072 ppm	0.5040 ppm	10.2712 ppm	0.5085 ppm	0.5023 ppm	0.4992 ppm
Recovery Percentage 1	98.763 %	101.225 %	99.947 %	102.595 %	101.992 %	100.427 %	100.121 %
Concentration RSD	0.6 %	0.3 %	0.8 %	0.2 %	0.6 %	0.2 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5009 ppm	5.6057 ppm	0.4862 ppm	0.4911 ppm	0.5059 ppm	0.4987 ppm	0.5032 ppm
Concentration per Run 1	0.4982 ppm	5.6208 ppm	0.4884 ppm	0.4876 ppm	0.5062 ppm	0.4961 ppm	0.5049 ppm
Concentration per Run 2	0.5040 ppm	5.5847 ppm	0.4845 ppm	0.4913 ppm	0.5050 ppm	0.5019 ppm	0.5011 ppm
Concentration per Run 3	0.5006 ppm	5.6117 ppm	0.4856 ppm	0.4945 ppm	0.5066 ppm	0.4979 ppm	0.5034 ppm
Recovery Percentage 1	100.185 %	106.776 %	97.231 %	98.229 %	101.190 %	99.731 %	100.636 %
Concentration RSD	0.6 %	0.3 %	0.4 %	0.7 %	0.2 %	0.6 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5041 ppm	94.6605 %	102.5119 %	92.2238 %	91.3907 %	100.3514 %	92.3895 %
Concentration per Run 1	0.5065 ppm	94.1575 %	102.2373 %	92.9007 %	90.7250 %	100.1262 %	92.7339 %
Concentration per Run 2	0.5027 ppm	95.1586 %	103.2948 %	91.9338 %	91.9763 %	101.0465 %	92.1001 %
Concentration per Run 3	0.5030 ppm	94.6656 %	102.0036 %	91.8368 %	91.4706 %	99.8813 %	92.3346 %
Recovery Percentage 1	100.816 %						
Concentration RSD	0.4 %	0.5 %	0.7 %	0.6 %	0.7 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 7:10:54 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0009 ppm	0.0001 ppm	0.0015 ppm	-0.0001 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0007 ppm	0.0017 ppm	-0.0001 ppm	0.0000 ppm	0.0070 ppm
Concentration per Run 2	-0.0001 ppm	0.0044 ppm	-0.0010 ppm	0.0014 ppm	-0.0001 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 3	-0.0002 ppm	-0.0014 ppm	0.0007 ppm	0.0013 ppm	-0.0001 ppm	0.0000 ppm	0.0056 ppm
Recovery Percentage 1	-1.706 %	0.918 %	4.247 %	4.857 %	-1.032 %	0.834 %	6.369 %
Concentration RSD	97.3 %	335.5 %	783.6 %	14.5 %	45.9 %	29.7 %	11.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0014 ppm	0.0066 ppm	0.0025 ppm	0.0000 ppm
Concentration per Run 1	0.0002 ppm	0.0004 ppm	0.0002 ppm	0.0016 ppm	0.0082 ppm	0.0057 ppm	0.0008 ppm
Concentration per Run 2	0.0001 ppm	-0.0005 ppm	0.0004 ppm	0.0014 ppm	0.0058 ppm	0.0120 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	0.0014 ppm	0.0058 ppm	-0.0102 ppm	-0.0009 ppm
Recovery Percentage 1	2.266 %	-0.811 %	1.611 %	14.272 %	13.242 %	0.099 %	0.183 %
Concentration RSD	61.0 %	283.8 %	133.0 %	8.1 %	20.9 %	462.1 %	4,803.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0010 ppm	0.0001 ppm	0.0022 ppm	0.0047 ppm	-0.0001 ppm	-0.0001 ppm	-0.0013 ppm
Concentration per Run 1	0.0010 ppm	0.0001 ppm	0.0021 ppm	0.0048 ppm	0.0006 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 2	0.0008 ppm	0.0001 ppm	0.0023 ppm	0.0036 ppm	-0.0004 ppm	-0.0002 ppm	-0.0013 ppm
Concentration per Run 3	0.0011 ppm	0.0002 ppm	0.0021 ppm	0.0058 ppm	-0.0006 ppm	0.0003 ppm	-0.0023 ppm
Recovery Percentage 1	0.952 %	1.313 %	4.372 %	0.237 %	-0.402 %	-0.732 %	-2.562 %
Concentration RSD	14.2 %	40.1 %	5.9 %	22.6 %	637.5 %	396.3 %	75.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	0.0004 ppm	0.0008 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0010 ppm	0.0028 ppm	0.0006 ppm	0.0001 ppm	0.0004 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 2	0.0008 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 3	0.0014 ppm	-0.0009 ppm	0.0017 ppm	-0.0001 ppm	0.0003 ppm	0.0013 ppm	0.0002 ppm
Recovery Percentage 1	10.452 %	0.077 %	1.529 %	-0.039 %	3.217 %	0.490 %	-0.173 %
Concentration RSD	28.1 %	544.7 %	110.5 %	1,732.4 %	41.7 %	1,074.7 %	1,209.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	92.0086 %	101.5239 %	92.5002 %	92.3245 %	101.2432 %	93.9792 %
Concentration per Run 1	0.0007 ppm	91.1841 %	101.4616 %	92.6290 %	92.1127 %	101.4523 %	94.0070 %
Concentration per Run 2	0.0006 ppm	91.6812 %	101.8335 %	92.6125 %	91.8259 %	101.1871 %	94.0336 %
Concentration per Run 3	0.0004 ppm	93.1604 %	101.2768 %	92.2592 %	93.0349 %	101.0901 %	93.8971 %
Recovery Percentage 1	11.617 %						
Concentration RSD	31.3 %	1.1 %	0.3 %	0.2 %	0.7 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454991-01D2 WG1976295
Analysis started at: 9/26/2024 7:16:22 PM
Rack 2
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	140.0946 ppm	0.0440 ppm	0.0185 ppm	0.9139 ppm	0.0052 ppm	69.0941 ppm
Concentration per Run 1	-0.0002 ppm	139.8443 ppm	0.0432 ppm	0.0189 ppm	0.9206 ppm	0.0052 ppm	68.8192 ppm
Concentration per Run 2	-0.0003 ppm	140.4171 ppm	0.0437 ppm	0.0184 ppm	0.9113 ppm	0.0052 ppm	69.6017 ppm
Concentration per Run 3	-0.0009 ppm	140.0226 ppm	0.0451 ppm	0.0181 ppm	0.9097 ppm	0.0051 ppm	68.8614 ppm
Concentration RSD	84.7 %	0.2 %	2.2 %	1.9 %	0.6 %	0.9 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0013 ppm	0.0741 ppm	0.2223 ppm	0.1604 ppm	176.1608 ppm	5.0390 ppm	0.1086 ppm
Concentration per Run 1	0.0012 ppm	0.0748 ppm	0.2252 ppm	0.1622 ppm	177.2897 ppm	5.0983 ppm	0.1116 ppm
Concentration per Run 2	0.0014 ppm	0.0745 ppm	0.2212 ppm	0.1599 ppm	176.5336 ppm	5.0353 ppm	0.1068 ppm
Concentration per Run 3	0.0013 ppm	0.0731 ppm	0.2205 ppm	0.1592 ppm	174.6592 ppm	4.9833 ppm	0.1074 ppm
Concentration RSD	5.7 %	1.2 %	1.2 %	1.0 %	0.8 %	1.1 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	41.7538 ppm	3.3367 ppm	0.0043 ppm	2.6703 ppm	0.1440 ppm	1.0385 ppm	0.0000 ppm
Concentration per Run 1	42.3945 ppm	3.3247 ppm	0.0039 ppm	2.6508 ppm	0.1446 ppm	1.0415 ppm	-0.0024 ppm
Concentration per Run 2	41.4337 ppm	3.3585 ppm	0.0045 ppm	2.6862 ppm	0.1434 ppm	1.0384 ppm	-0.0004 ppm
Concentration per Run 3	41.4332 ppm	3.3269 ppm	0.0044 ppm	2.6738 ppm	0.1440 ppm	1.0356 ppm	0.0027 ppm
Concentration RSD	1.3 %	0.6 %	7.4 %	0.7 %	0.4 %	0.3 %	7,756.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	4.3487 ppm	0.0159 ppm	0.2561 ppm	2.7749 ppm	0.0005 ppm	0.3080 ppm
Concentration per Run 1	0.0017 ppm	4.3992 ppm	0.0160 ppm	0.2570 ppm	2.7979 ppm	0.0002 ppm	0.3101 ppm
Concentration per Run 2	0.0021 ppm	4.3425 ppm	0.0163 ppm	0.2570 ppm	2.7757 ppm	0.0013 ppm	0.3066 ppm
Concentration per Run 3	0.0029 ppm	4.3044 ppm	0.0155 ppm	0.2543 ppm	2.7509 ppm	0.0000 ppm	0.3073 ppm
Concentration RSD	28.1 %	1.1 %	2.6 %	0.6 %	0.8 %	153.1 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9661 ppm	97.0346 %	106.2978 %	88.9626 %	109.3373 %	126.1343 %	114.0527 %
Concentration per Run 1	0.9826 ppm	95.9998 %	106.5004 %	88.7846 %	108.5823 %	125.5150 %	113.4631 %
Concentration per Run 2	0.9656 ppm	97.9002 %	105.6962 %	89.2687 %	110.5589 %	126.2833 %	114.6228 %
Concentration per Run 3	0.9500 ppm	97.2038 %	106.6967 %	88.8345 %	108.8708 %	126.6047 %	114.0722 %
Concentration RSD	1.7 %	1.0 %	0.5 %	0.3 %	1.0 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454991-02D2 WG1976295
Analysis started at: 9/26/2024 7:20:23 PM
Rack 2
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	121.2360 ppm	0.0294 ppm	0.0116 ppm	0.3749 ppm	0.0045 ppm	5.5474 ppm
Concentration per Run 1	-0.0002 ppm	120.5892 ppm	0.0302 ppm	0.0118 ppm	0.3732 ppm	0.0044 ppm	5.5066 ppm
Concentration per Run 2	-0.0007 ppm	122.0491 ppm	0.0289 ppm	0.0107 ppm	0.3778 ppm	0.0045 ppm	5.5608 ppm
Concentration per Run 3	-0.0009 ppm	121.0699 ppm	0.0291 ppm	0.0123 ppm	0.3738 ppm	0.0045 ppm	5.5748 ppm
Concentration RSD	55.5 %	0.6 %	2.5 %	7.1 %	0.7 %	1.2 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0559 ppm	0.1895 ppm	0.1101 ppm	183.7811 ppm	5.4759 ppm	0.1217 ppm
Concentration per Run 1	-0.0001 ppm	0.0565 ppm	0.1920 ppm	0.1119 ppm	183.3136 ppm	5.4863 ppm	0.1248 ppm
Concentration per Run 2	0.0000 ppm	0.0554 ppm	0.1889 ppm	0.1100 ppm	185.2141 ppm	5.5205 ppm	0.1211 ppm
Concentration per Run 3	-0.0002 ppm	0.0557 ppm	0.1876 ppm	0.1084 ppm	182.8157 ppm	5.4207 ppm	0.1193 ppm
Concentration RSD	101.7 %	1.0 %	1.2 %	1.6 %	0.7 %	0.9 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	33.7187 ppm	1.4989 ppm	0.0029 ppm	2.7821 ppm	0.1230 ppm	0.0809 ppm	0.0005 ppm
Concentration per Run 1	34.1470 ppm	1.4879 ppm	0.0026 ppm	2.7551 ppm	0.1242 ppm	0.0801 ppm	0.0019 ppm
Concentration per Run 2	33.6422 ppm	1.5048 ppm	0.0033 ppm	2.8096 ppm	0.1230 ppm	0.0822 ppm	-0.0019 ppm
Concentration per Run 3	33.3668 ppm	1.5039 ppm	0.0028 ppm	2.7816 ppm	0.1217 ppm	0.0804 ppm	0.0015 ppm
Concentration RSD	1.2 %	0.6 %	13.2 %	1.0 %	1.0 %	1.4 %	426.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	4.2012 ppm	0.0040 ppm	0.0519 ppm	2.3007 ppm	0.0017 ppm	0.2289 ppm
Concentration per Run 1	0.0020 ppm	4.2472 ppm	0.0045 ppm	0.0515 ppm	2.3225 ppm	0.0015 ppm	0.2304 ppm
Concentration per Run 2	0.0018 ppm	4.1842 ppm	0.0030 ppm	0.0520 ppm	2.3016 ppm	0.0020 ppm	0.2280 ppm
Concentration per Run 3	0.0012 ppm	4.1724 ppm	0.0046 ppm	0.0523 ppm	2.2780 ppm	0.0017 ppm	0.2281 ppm
Concentration RSD	23.6 %	1.0 %	21.7 %	0.8 %	1.0 %	16.0 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3255 ppm	96.7137 %	105.8387 %	91.6003 %	105.2466 %	119.5811 %	110.8462 %
Concentration per Run 1	0.3316 ppm	95.7389 %	106.4453 %	92.0472 %	104.7915 %	119.9305 %	111.4450 %
Concentration per Run 2	0.3232 ppm	96.8841 %	105.4189 %	91.5954 %	105.3507 %	119.1695 %	110.7516 %
Concentration per Run 3	0.3217 ppm	97.5182 %	105.6520 %	91.1583 %	105.5975 %	119.6431 %	110.3419 %
Concentration RSD	1.6 %	0.9 %	0.5 %	0.5 %	0.4 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455018-09D2 WG1976295
Analysis started at: 9/26/2024 7:24:22 PM
Rack 2
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	65.7439 ppm	0.0223 ppm	0.0601 ppm	0.3893 ppm	0.0026 ppm	746.3596 ppm
Concentration per Run 1	-0.0009 ppm	65.0055 ppm	0.0194 ppm	0.0603 ppm	0.3835 ppm	0.0028 ppm	747.7466 ppm
Concentration per Run 2	-0.0007 ppm	66.7938 ppm	0.0222 ppm	0.0605 ppm	0.4005 ppm	0.0022 ppm	737.1356 ppm
Concentration per Run 3	-0.0013 ppm	65.4323 ppm	0.0253 ppm	0.0596 ppm	0.3838 ppm	0.0028 ppm	754.1966 ppm
Concentration RSD	35.6 %	1.4 %	13.2 %	0.8 %	2.5 %	14.2 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0029 ppm	0.0288 ppm	0.1740 ppm	0.1136 ppm	86.5237 ppm	25.5476 ppm	0.0682 ppm
Concentration per Run 1	-0.0029 ppm	0.0286 ppm	0.1749 ppm	0.1137 ppm	85.5280 ppm	25.0593 ppm	0.0669 ppm
Concentration per Run 2	-0.0030 ppm	0.0298 ppm	0.1738 ppm	0.1148 ppm	88.4388 ppm	26.6974 ppm	0.0721 ppm
Concentration per Run 3	-0.0028 ppm	0.0281 ppm	0.1734 ppm	0.1122 ppm	85.6044 ppm	24.8861 ppm	0.0657 ppm
Concentration RSD	3.7 %	3.1 %	0.5 %	1.2 %	1.9 %	3.9 %	4.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	54.6263 ppm	1.3652 ppm	0.0051 ppm	13.1508 ppm	0.1117 ppm	1.1822 ppm	0.0000 ppm
Concentration per Run 1	55.2370 ppm	1.3551 ppm	0.0057 ppm	12.8204 ppm	0.1135 ppm	1.1784 ppm	0.0015 ppm
Concentration per Run 2	54.6352 ppm	1.3747 ppm	0.0045 ppm	13.7699 ppm	0.1112 ppm	1.1831 ppm	-0.0010 ppm
Concentration per Run 3	54.0067 ppm	1.3659 ppm	0.0052 ppm	12.8622 ppm	0.1105 ppm	1.1852 ppm	-0.0006 ppm
Concentration RSD	1.1 %	0.7 %	12.6 %	4.1 %	1.4 %	0.3 %	4,029.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	4.6869 ppm	0.0687 ppm	1.4995 ppm	6.7823 ppm	0.0019 ppm	0.1943 ppm
Concentration per Run 1	0.0032 ppm	4.7614 ppm	0.0690 ppm	1.5046 ppm	6.8323 ppm	0.0017 ppm	0.1944 ppm
Concentration per Run 2	-0.0011 ppm	4.6812 ppm	0.0675 ppm	1.4786 ppm	6.7722 ppm	0.0005 ppm	0.1948 ppm
Concentration per Run 3	0.0003 ppm	4.6181 ppm	0.0697 ppm	1.5154 ppm	6.7425 ppm	0.0036 ppm	0.1938 ppm
Concentration RSD	286.7 %	1.5 %	1.6 %	1.3 %	0.7 %	81.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2727 ppm	89.4350 %	100.5455 %	77.0847 %	95.3161 %	110.9240 %	98.0696 %
Concentration per Run 1	0.2772 ppm	89.0373 %	99.5315 %	77.2573 %	95.0073 %	109.9016 %	98.6497 %
Concentration per Run 2	0.2716 ppm	89.4342 %	103.3746 %	76.8973 %	95.5365 %	113.1671 %	97.6985 %
Concentration per Run 3	0.2695 ppm	89.8335 %	98.7306 %	77.0994 %	95.4046 %	109.7033 %	97.8606 %
Concentration RSD	1.5 %	0.4 %	2.5 %	0.2 %	0.3 %	1.8 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: zL2455018-10D2 WG1976295
Analysis started at: 9/26/2024 7:28:20 PM
Rack 2
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0010 ppm	84.0118 ppm	0.0307 ppm	0.0703 ppm	0.4824 ppm	0.0032 ppm	1,024.7901 [SIC 1500]
Concentration per Run 1	-0.0011 ppm	83.9152 ppm	0.0329 ppm	0.0696 ppm	0.4768 ppm	0.0033 ppm	1,022.6801 ppm
Concentration per Run 2	-0.0007 ppm	84.0440 ppm	0.0288 ppm	0.0709 ppm	0.4874 ppm	0.0031 ppm	1,022.4180 ppm
Concentration per Run 3	-0.0013 ppm	84.0764 ppm	0.0304 ppm	0.0703 ppm	0.4829 ppm	0.0033 ppm	1,029.2721 ppm
Concentration RSD	29.2 %	0.1 %	6.8 %	1.0 %	1.1 %	2.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0040 ppm	0.0345 ppm	0.2160 ppm	0.1416 ppm	110.0325 ppm	31.3711 ppm	0.0899 ppm
Concentration per Run 1	-0.0040 ppm	0.0347 ppm	0.2174 ppm	0.1421 ppm	108.7857 ppm	31.0592 ppm	0.0896 ppm
Concentration per Run 2	-0.0040 ppm	0.0346 ppm	0.2159 ppm	0.1421 ppm	110.9912 ppm	31.6724 ppm	0.0907 ppm
Concentration per Run 3	-0.0040 ppm	0.0340 ppm	0.2146 ppm	0.1406 ppm	110.3205 ppm	31.3818 ppm	0.0895 ppm
Concentration RSD	0.4 %	1.1 %	0.6 %	0.6 %	1.0 %	1.0 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	135.1074 ppm	1.8465 ppm	0.0056 ppm	14.1094 ppm	0.1229 ppm	1.8567 ppm	-0.0004 ppm
Concentration per Run 1	136.1045 ppm	1.8386 ppm	0.0056 ppm	14.0860 ppm	0.1235 ppm	1.8579 ppm	-0.0006 ppm
Concentration per Run 2	135.0630 ppm	1.8488 ppm	0.0056 ppm	14.1455 ppm	0.1229 ppm	1.8599 ppm	0.0014 ppm
Concentration per Run 3	134.1548 ppm	1.8521 ppm	0.0057 ppm	14.0968 ppm	0.1223 ppm	1.8525 ppm	-0.0021 ppm
Concentration RSD	0.7 %	0.4 %	1.4 %	0.2 %	0.5 %	0.2 %	408.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	4.4616 ppm	0.0061 ppm	1.9531 ppm	8.3317 ppm	0.0044 ppm	0.2571 ppm
Concentration per Run 1	-0.0003 ppm	4.4876 ppm	0.0054 ppm	1.9443 ppm	8.3823 ppm	0.0050 ppm	0.2585 ppm
Concentration per Run 2	-0.0011 ppm	4.4745 ppm	0.0075 ppm	1.9529 ppm	8.3126 ppm	0.0062 ppm	0.2570 ppm
Concentration per Run 3	0.0022 ppm	4.4226 ppm	0.0054 ppm	1.9620 ppm	8.3003 ppm	0.0020 ppm	0.2559 ppm
Concentration RSD	639.3 %	0.8 %	20.5 %	0.5 %	0.5 %	49.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3941 ppm	88.2450 %	100.4283 %	72.8825 %	96.0657 %	115.4557 %	98.7703 %
Concentration per Run 1	0.3970 ppm	87.9534 %	100.8901 %	73.0766 %	96.1975 %	115.9464 %	98.9716 %
Concentration per Run 2	0.3971 ppm	88.0259 %	100.8505 %	72.8976 %	96.0579 %	115.5132 %	98.6443 %
Concentration per Run 3	0.3882 ppm	88.7558 %	99.5442 %	72.6733 %	95.9416 %	114.9076 %	98.6949 %
Concentration RSD	1.3 %	0.5 %	0.8 %	0.3 %	0.1 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455019-09D2 WG1976295
Analysis started at: 9/26/2024 7:32:18 PM
Rack 2
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	75.2212 ppm	0.0316 ppm	0.0696 ppm	0.4420 ppm	0.0030 ppm	896.3350 ppm
Concentration per Run 1	-0.0012 ppm	75.3003 ppm	0.0320 ppm	0.0700 ppm	0.4465 ppm	0.0029 ppm	896.5370 ppm
Concentration per Run 2	-0.0008 ppm	75.4231 ppm	0.0328 ppm	0.0706 ppm	0.4355 ppm	0.0031 ppm	901.0790 ppm
Concentration per Run 3	-0.0007 ppm	74.9402 ppm	0.0301 ppm	0.0681 ppm	0.4439 ppm	0.0029 ppm	891.3889 ppm
Concentration RSD	27.5 %	0.3 %	4.4 %	1.8 %	1.3 %	3.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0036 ppm	0.0313 ppm	0.2013 ppm	0.1239 ppm	95.7354 ppm	18.0109 ppm	0.0708 ppm
Concentration per Run 1	-0.0037 ppm	0.0313 ppm	0.2035 ppm	0.1240 ppm	96.3512 ppm	18.0953 ppm	0.0741 ppm
Concentration per Run 2	-0.0036 ppm	0.0316 ppm	0.2005 ppm	0.1241 ppm	94.7512 ppm	17.8925 ppm	0.0701 ppm
Concentration per Run 3	-0.0036 ppm	0.0310 ppm	0.1999 ppm	0.1235 ppm	96.1037 ppm	18.0449 ppm	0.0683 ppm
Concentration RSD	2.8 %	1.0 %	1.0 %	0.2 %	0.9 %	0.6 %	4.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	60.0900 ppm	1.4551 ppm	0.0053 ppm	7.4618 ppm	0.1093 ppm	1.3072 ppm	-0.0027 ppm
Concentration per Run 1	61.0171 ppm	1.4599 ppm	0.0053 ppm	7.4652 ppm	0.1116 ppm	1.3097 ppm	-0.0023 ppm
Concentration per Run 2	59.9423 ppm	1.4581 ppm	0.0054 ppm	7.4678 ppm	0.1090 ppm	1.3117 ppm	-0.0001 ppm
Concentration per Run 3	59.3104 ppm	1.4474 ppm	0.0051 ppm	7.4524 ppm	0.1074 ppm	1.3001 ppm	-0.0056 ppm
Concentration RSD	1.4 %	0.5 %	2.6 %	0.1 %	1.9 %	0.5 %	104.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	4.2593 ppm	0.0058 ppm	1.7486 ppm	7.8029 ppm	0.0050 ppm	0.2367 ppm
Concentration per Run 1	0.0018 ppm	4.2752 ppm	0.0063 ppm	1.7583 ppm	7.8949 ppm	0.0044 ppm	0.2402 ppm
Concentration per Run 2	0.0000 ppm	4.2720 ppm	0.0059 ppm	1.7377 ppm	7.7821 ppm	0.0067 ppm	0.2348 ppm
Concentration per Run 3	0.0013 ppm	4.2306 ppm	0.0051 ppm	1.7498 ppm	7.7317 ppm	0.0039 ppm	0.2350 ppm
Concentration RSD	89.7 %	0.6 %	10.6 %	0.6 %	1.1 %	29.8 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3115 ppm	89.6739 %	100.8590 %	75.0490 %	96.6207 %	113.0445 %	98.5226 %
Concentration per Run 1	0.3156 ppm	87.6742 %	100.6790 %	74.9784 %	94.2620 %	112.7514 %	98.6460 %
Concentration per Run 2	0.3132 ppm	90.2779 %	100.1738 %	74.9383 %	97.3434 %	112.7652 %	98.1516 %
Concentration per Run 3	0.3056 ppm	91.0697 %	101.7241 %	75.2304 %	98.2566 %	113.6169 %	98.7703 %
Concentration RSD	1.7 %	2.0 %	0.8 %	0.2 %	2.2 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455019-10D2 WG1976295
Analysis started at: 9/26/2024 7:36:18 PM
Rack 3
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	76.3598 ppm	0.0317 ppm	0.0666 ppm	0.4738 ppm	0.0030 ppm	851.3150 ppm
Concentration per Run 1	-0.0011 ppm	76.2572 ppm	0.0324 ppm	0.0681 ppm	0.4768 ppm	0.0030 ppm	845.3896 ppm
Concentration per Run 2	-0.0008 ppm	76.1345 ppm	0.0300 ppm	0.0663 ppm	0.4664 ppm	0.0032 ppm	853.5154 ppm
Concentration per Run 3	-0.0010 ppm	76.6878 ppm	0.0327 ppm	0.0654 ppm	0.4781 ppm	0.0030 ppm	855.0400 ppm
Concentration RSD	19.4 %	0.4 %	4.6 %	2.1 %	1.3 %	3.8 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0031 ppm	0.0343 ppm	0.1994 ppm	0.1505 ppm	101.4331 ppm	17.9633 ppm	0.0763 ppm
Concentration per Run 1	-0.0031 ppm	0.0346 ppm	0.2011 ppm	0.1524 ppm	101.4101 ppm	18.0877 ppm	0.0783 ppm
Concentration per Run 2	-0.0030 ppm	0.0340 ppm	0.1978 ppm	0.1497 ppm	100.2434 ppm	17.6565 ppm	0.0737 ppm
Concentration per Run 3	-0.0032 ppm	0.0343 ppm	0.1993 ppm	0.1494 ppm	102.6458 ppm	18.1458 ppm	0.0770 ppm
Concentration RSD	3.1 %	0.9 %	0.8 %	1.1 %	1.2 %	1.5 %	3.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	60.3464 ppm	1.5464 ppm	0.0052 ppm	6.9253 ppm	0.1256 ppm	1.9466 ppm	-0.0020 ppm
Concentration per Run 1	60.7973 ppm	1.5400 ppm	0.0052 ppm	6.9398 ppm	0.1265 ppm	1.9506 ppm	-0.0003 ppm
Concentration per Run 2	60.0722 ppm	1.5442 ppm	0.0050 ppm	6.9045 ppm	0.1248 ppm	1.9479 ppm	-0.0031 ppm
Concentration per Run 3	60.1696 ppm	1.5551 ppm	0.0055 ppm	6.9317 ppm	0.1255 ppm	1.9414 ppm	-0.0026 ppm
Concentration RSD	0.7 %	0.5 %	4.8 %	0.3 %	0.7 %	0.2 %	73.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	3.9073 ppm	0.0072 ppm	1.6401 ppm	7.7122 ppm	0.0050 ppm	0.2272 ppm
Concentration per Run 1	0.0019 ppm	3.9511 ppm	0.0073 ppm	1.6339 ppm	7.7645 ppm	0.0043 ppm	0.2285 ppm
Concentration per Run 2	0.0024 ppm	3.8949 ppm	0.0074 ppm	1.6386 ppm	7.6717 ppm	0.0039 ppm	0.2262 ppm
Concentration per Run 3	0.0013 ppm	3.8758 ppm	0.0068 ppm	1.6480 ppm	7.7002 ppm	0.0069 ppm	0.2269 ppm
Concentration RSD	29.8 %	1.0 %	4.7 %	0.4 %	0.6 %	32.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4045 ppm	89.2661 %	102.3155 %	75.1343 %	96.6471 %	116.0098 %	99.5502 %
Concentration per Run 1	0.4072 ppm	88.7389 %	104.1841 %	75.2872 %	96.3267 %	118.1610 %	100.0025 %
Concentration per Run 2	0.4022 ppm	89.9712 %	101.2807 %	75.1852 %	97.5200 %	114.8242 %	99.7386 %
Concentration per Run 3	0.4040 ppm	89.0882 %	101.4816 %	74.9306 %	96.0947 %	115.0443 %	98.9096 %
Concentration RSD	0.6 %	0.7 %	1.6 %	0.2 %	0.8 %	1.6 %	0.6 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455039-01D2 WG1976295
Analysis started at: 9/26/2024 7:40:16 PM
Rack 3
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	63.0942 ppm	0.0181 ppm	0.0059 ppm	0.2591 ppm	0.0042 ppm	67.5994 ppm
Concentration per Run 1	0.0003 ppm	62.6066 ppm	0.0171 ppm	0.0060 ppm	0.2555 ppm	0.0044 ppm	68.1880 ppm
Concentration per Run 2	0.0006 ppm	62.7902 ppm	0.0190 ppm	0.0052 ppm	0.2581 ppm	0.0043 ppm	67.9018 ppm
Concentration per Run 3	0.0011 ppm	63.8860 ppm	0.0181 ppm	0.0065 ppm	0.2638 ppm	0.0039 ppm	66.7082 ppm
Concentration RSD	59.4 %	1.1 %	5.0 %	11.2 %	1.6 %	6.3 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0450 ppm	0.0638 ppm	0.0823 ppm	130.3516 ppm	4.8184 ppm	0.0579 ppm
Concentration per Run 1	0.0007 ppm	0.0456 ppm	0.0643 ppm	0.0826 ppm	129.1943 ppm	4.7613 ppm	0.0570 ppm
Concentration per Run 2	0.0008 ppm	0.0446 ppm	0.0638 ppm	0.0818 ppm	129.3067 ppm	4.7231 ppm	0.0551 ppm
Concentration per Run 3	0.0007 ppm	0.0448 ppm	0.0633 ppm	0.0826 ppm	132.5536 ppm	4.9708 ppm	0.0615 ppm
Concentration RSD	1.7 %	1.2 %	0.8 %	0.6 %	1.5 %	2.8 %	5.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.3741 ppm	0.9907 ppm	0.0031 ppm	2.4990 ppm	0.0711 ppm	0.0727 ppm	0.0008 ppm
Concentration per Run 1	25.6801 ppm	0.9866 ppm	0.0030 ppm	2.4580 ppm	0.0714 ppm	0.0715 ppm	-0.0014 ppm
Concentration per Run 2	25.2456 ppm	0.9910 ppm	0.0026 ppm	2.4407 ppm	0.0712 ppm	0.0739 ppm	0.0020 ppm
Concentration per Run 3	25.1965 ppm	0.9944 ppm	0.0037 ppm	2.5983 ppm	0.0706 ppm	0.0726 ppm	0.0019 ppm
Concentration RSD	1.0 %	0.4 %	19.2 %	3.5 %	0.6 %	1.6 %	239.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	3.7640 ppm	0.0053 ppm	0.1134 ppm	3.4714 ppm	0.0018 ppm	0.2081 ppm
Concentration per Run 1	0.0019 ppm	3.8035 ppm	0.0053 ppm	0.1150 ppm	3.5079 ppm	0.0010 ppm	0.2104 ppm
Concentration per Run 2	0.0005 ppm	3.7356 ppm	0.0056 ppm	0.1141 ppm	3.4564 ppm	0.0011 ppm	0.2072 ppm
Concentration per Run 3	0.0013 ppm	3.7528 ppm	0.0049 ppm	0.1112 ppm	3.4498 ppm	0.0033 ppm	0.2066 ppm
Concentration RSD	55.7 %	0.9 %	6.4 %	1.8 %	0.9 %	72.4 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4506 ppm	96.9700 %	105.6387 %	89.4121 %	130.3064 %	147.6626 %	134.8620 %
Concentration per Run 1	0.4544 ppm	95.7357 %	102.7371 %	89.5682 %	129.3529 %	145.1507 %	134.9771 %
Concentration per Run 2	0.4494 ppm	98.0501 %	104.2051 %	88.8074 %	131.7465 %	145.4301 %	134.3617 %
Concentration per Run 3	0.4481 ppm	97.1242 %	109.9739 %	89.8607 %	129.8198 %	152.4072 %	135.2472 %
Concentration RSD	0.7 %	1.2 %	3.6 %	0.6 %	1.0 %	2.8 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455039-02D2 WG1976295
Analysis started at: 9/26/2024 7:44:15 PM
Rack 3
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0018 ppm	57.5477 ppm	0.0217 ppm	0.0075 ppm	0.2314 ppm	0.0032 ppm	133.4505 ppm
Concentration per Run 1	0.0015 ppm	56.5827 ppm	0.0216 ppm	0.0083 ppm	0.2258 ppm	0.0036 ppm	135.4878 ppm
Concentration per Run 2	0.0017 ppm	57.9662 ppm	0.0213 ppm	0.0059 ppm	0.2345 ppm	0.0030 ppm	131.9614 ppm
Concentration per Run 3	0.0022 ppm	58.0941 ppm	0.0223 ppm	0.0082 ppm	0.2338 ppm	0.0031 ppm	132.9024 ppm
Concentration RSD	19.1 %	1.5 %	2.5 %	18.1 %	2.1 %	9.4 %	1.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0442 ppm	0.0644 ppm	0.0872 ppm	125.2887 ppm	4.1058 ppm	0.0519 ppm
Concentration per Run 1	-0.0001 ppm	0.0449 ppm	0.0649 ppm	0.0870 ppm	123.0147 ppm	3.9882 ppm	0.0495 ppm
Concentration per Run 2	-0.0003 ppm	0.0440 ppm	0.0644 ppm	0.0874 ppm	126.0930 ppm	4.1656 ppm	0.0537 ppm
Concentration per Run 3	-0.0002 ppm	0.0437 ppm	0.0640 ppm	0.0872 ppm	126.7583 ppm	4.1635 ppm	0.0523 ppm
Concentration RSD	35.6 %	1.4 %	0.7 %	0.2 %	1.6 %	2.5 %	4.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	29.1031 ppm	1.0679 ppm	0.0028 ppm	2.5820 ppm	0.0678 ppm	0.1085 ppm	0.0008 ppm
Concentration per Run 1	29.5277 ppm	1.0601 ppm	0.0027 ppm	2.4687 ppm	0.0681 ppm	0.1105 ppm	0.0029 ppm
Concentration per Run 2	28.9978 ppm	1.0646 ppm	0.0026 ppm	2.6482 ppm	0.0678 ppm	0.1068 ppm	-0.0007 ppm
Concentration per Run 3	28.7839 ppm	1.0791 ppm	0.0031 ppm	2.6292 ppm	0.0675 ppm	0.1082 ppm	0.0003 ppm
Concentration RSD	1.3 %	0.9 %	10.1 %	3.8 %	0.5 %	1.7 %	231.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	2.9850 ppm	0.0054 ppm	0.2107 ppm	3.3158 ppm	0.0025 ppm	0.2258 ppm
Concentration per Run 1	0.0014 ppm	3.0240 ppm	0.0056 ppm	0.2157 ppm	3.3597 ppm	0.0025 ppm	0.2283 ppm
Concentration per Run 2	-0.0016 ppm	2.9769 ppm	0.0054 ppm	0.2077 ppm	3.3082 ppm	0.0030 ppm	0.2253 ppm
Concentration per Run 3	0.0009 ppm	2.9541 ppm	0.0053 ppm	0.2086 ppm	3.2794 ppm	0.0020 ppm	0.2237 ppm
Concentration RSD	679.4 %	1.2 %	3.2 %	2.1 %	1.2 %	20.4 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3289 ppm	94.3080 %	106.3263 %	86.7351 %	124.1849 %	144.6407 %	128.2263 %
Concentration per Run 1	0.3309 ppm	93.1323 %	101.6263 %	86.8410 %	123.0083 %	140.0242 %	128.2142 %
Concentration per Run 2	0.3293 ppm	94.4963 %	110.0297 %	87.0054 %	124.3675 %	148.5057 %	128.7092 %
Concentration per Run 3	0.3265 ppm	95.2954 %	107.3231 %	86.3590 %	125.1789 %	145.3923 %	127.7554 %
Concentration RSD	0.7 %	1.2 %	4.0 %	0.4 %	0.9 %	3.0 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455039-03D2 WG1976295
Analysis started at: 9/26/2024 7:48:13 PM
Rack 3
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0068 ppm	47.3102 ppm	0.0150 ppm	0.0055 ppm	0.1695 ppm	0.0027 ppm	43.5908 ppm
Concentration per Run 1	0.0060 ppm	46.4354 ppm	0.0158 ppm	0.0057 ppm	0.1652 ppm	0.0029 ppm	43.9428 ppm
Concentration per Run 2	0.0073 ppm	47.8046 ppm	0.0137 ppm	0.0054 ppm	0.1722 ppm	0.0026 ppm	43.6034 ppm
Concentration per Run 3	0.0070 ppm	47.6907 ppm	0.0155 ppm	0.0053 ppm	0.1709 ppm	0.0027 ppm	43.2262 ppm
Concentration RSD	9.9 %	1.6 %	7.4 %	4.5 %	2.2 %	5.8 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0426 ppm	0.0585 ppm	0.0854 ppm	118.3509 ppm	3.2104 ppm	0.0515 ppm
Concentration per Run 1	0.0004 ppm	0.0434 ppm	0.0586 ppm	0.0836 ppm	116.0537 ppm	3.0788 ppm	0.0486 ppm
Concentration per Run 2	0.0004 ppm	0.0426 ppm	0.0589 ppm	0.0865 ppm	120.0747 ppm	3.2986 ppm	0.0528 ppm
Concentration per Run 3	0.0004 ppm	0.0416 ppm	0.0580 ppm	0.0863 ppm	118.9244 ppm	3.2540 ppm	0.0530 ppm
Concentration RSD	4.7 %	2.1 %	0.7 %	1.9 %	1.7 %	3.6 %	4.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.2106 ppm	0.6297 ppm	0.0023 ppm	2.3862 ppm	0.0634 ppm	0.0644 ppm	-0.0001 ppm
Concentration per Run 1	16.3906 ppm	0.6260 ppm	0.0025 ppm	2.2754 ppm	0.0644 ppm	0.0651 ppm	-0.0001 ppm
Concentration per Run 2	16.1465 ppm	0.6337 ppm	0.0025 ppm	2.4564 ppm	0.0634 ppm	0.0634 ppm	0.0004 ppm
Concentration per Run 3	16.0946 ppm	0.6294 ppm	0.0017 ppm	2.4267 ppm	0.0624 ppm	0.0647 ppm	-0.0007 ppm
Concentration RSD	1.0 %	0.6 %	19.5 %	4.1 %	1.6 %	1.4 %	482.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	4.1463 ppm	0.0057 ppm	0.0764 ppm	2.7522 ppm	0.0017 ppm	0.2009 ppm
Concentration per Run 1	0.0020 ppm	4.1325 ppm	0.0056 ppm	0.0776 ppm	2.7859 ppm	0.0011 ppm	0.2056 ppm
Concentration per Run 2	0.0036 ppm	4.1667 ppm	0.0058 ppm	0.0759 ppm	2.7420 ppm	0.0022 ppm	0.1990 ppm
Concentration per Run 3	0.0011 ppm	4.1396 ppm	0.0058 ppm	0.0757 ppm	2.7287 ppm	0.0018 ppm	0.1980 ppm
Concentration RSD	58.7 %	0.4 %	1.4 %	1.4 %	1.1 %	33.2 %	2.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2722 ppm	96.0273 %	106.8195 %	89.8989 %	121.2953 %	138.3367 %	124.5361 %
Concentration per Run 1	0.2722 ppm	93.9646 %	102.9327 %	90.4033 %	118.0114 %	133.9464 %	124.8566 %
Concentration per Run 2	0.2725 ppm	97.0971 %	108.1678 %	89.4922 %	122.9697 %	140.0177 %	124.1957 %
Concentration per Run 3	0.2720 ppm	97.0202 %	109.3580 %	89.8012 %	122.9050 %	141.0459 %	124.5561 %
Concentration RSD	0.1 %	1.9 %	3.2 %	0.5 %	2.3 %	2.8 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455039-04d3 WG1976295
Analysis started at: 9/26/2024 7:52:12 PM
Rack 3
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	64.4298 ppm	0.0182 ppm	0.0051 ppm	0.2698 ppm	0.0047 ppm	29.4486 ppm
Concentration per Run 1	-0.0004 ppm	64.0104 ppm	0.0181 ppm	0.0058 ppm	0.2678 ppm	0.0048 ppm	29.4921 ppm
Concentration per Run 2	-0.0001 ppm	64.7642 ppm	0.0188 ppm	0.0047 ppm	0.2704 ppm	0.0047 ppm	29.5900 ppm
Concentration per Run 3	-0.0007 ppm	64.5150 ppm	0.0178 ppm	0.0049 ppm	0.2712 ppm	0.0046 ppm	29.2636 ppm
Concentration RSD	63.9 %	0.6 %	2.7 %	11.2 %	0.7 %	2.6 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0504 ppm	0.0731 ppm	0.0804 ppm	160.0228 ppm	7.0461 ppm	0.0455 ppm
Concentration per Run 1	0.0003 ppm	0.0510 ppm	0.0735 ppm	0.0807 ppm	159.1663 ppm	6.9923 ppm	0.0449 ppm
Concentration per Run 2	0.0005 ppm	0.0505 ppm	0.0733 ppm	0.0808 ppm	160.6743 ppm	7.0632 ppm	0.0458 ppm
Concentration per Run 3	0.0004 ppm	0.0498 ppm	0.0724 ppm	0.0797 ppm	160.2276 ppm	7.0829 ppm	0.0457 ppm
Concentration RSD	18.9 %	1.2 %	0.8 %	0.7 %	0.5 %	0.7 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.2868 ppm	1.3057 ppm	0.0031 ppm	3.0500 ppm	0.0729 ppm	0.0213 ppm	-0.0027 ppm
Concentration per Run 1	17.4387 ppm	1.3022 ppm	0.0032 ppm	3.0143 ppm	0.0741 ppm	0.0223 ppm	-0.0019 ppm
Concentration per Run 2	17.2903 ppm	1.3124 ppm	0.0028 ppm	3.0710 ppm	0.0726 ppm	0.0216 ppm	-0.0008 ppm
Concentration per Run 3	17.1313 ppm	1.3024 ppm	0.0033 ppm	3.0646 ppm	0.0719 ppm	0.0200 ppm	-0.0054 ppm
Concentration RSD	0.9 %	0.4 %	8.5 %	1.0 %	1.6 %	5.7 %	87.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	6.8841 ppm	0.0066 ppm	0.0972 ppm	5.0315 ppm	0.0035 ppm	0.2658 ppm
Concentration per Run 1	0.0013 ppm	6.9563 ppm	0.0073 ppm	0.0975 ppm	5.0661 ppm	0.0033 ppm	0.2674 ppm
Concentration per Run 2	0.0017 ppm	6.9107 ppm	0.0057 ppm	0.0973 ppm	5.0351 ppm	0.0030 ppm	0.2651 ppm
Concentration per Run 3	-0.0016 ppm	6.7853 ppm	0.0068 ppm	0.0969 ppm	4.9934 ppm	0.0043 ppm	0.2649 ppm
Concentration RSD	409.2 %	1.3 %	12.5 %	0.3 %	0.7 %	18.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3445 ppm	100.0169 %	107.4191 %	90.4279 %	149.4860 %	167.1501 %	154.7224 %
Concentration per Run 1	0.3470 ppm	99.6020 %	105.8182 %	90.0395 %	149.4942 %	164.4421 %	154.7005 %
Concentration per Run 2	0.3470 ppm	99.6607 %	107.1272 %	90.1197 %	149.1320 %	166.8157 %	154.5312 %
Concentration per Run 3	0.3394 ppm	100.7879 %	109.3118 %	91.1245 %	149.8317 %	170.1924 %	154.9354 %
Concentration RSD	1.3 %	0.7 %	1.6 %	0.7 %	0.2 %	1.7 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 7:56:11 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5044 ppm	0.4950 ppm	0.4841 ppm	0.4933 ppm	0.5071 ppm	0.5167 ppm	0.5011 ppm
Concentration per Run 1	0.5097 ppm	0.4930 ppm	0.4830 ppm	0.4967 ppm	0.5050 ppm	0.5153 ppm	0.5015 ppm
Concentration per Run 2	0.5038 ppm	0.4972 ppm	0.4845 ppm	0.4950 ppm	0.5103 ppm	0.5172 ppm	0.5015 ppm
Concentration per Run 3	0.4998 ppm	0.4948 ppm	0.4847 ppm	0.4880 ppm	0.5062 ppm	0.5176 ppm	0.5002 ppm
Recovery Percentage 1	100.886 %	99.001 %	96.810 %	98.653 %	101.426 %	103.344 %	100.214 %
Concentration RSD	1.0 %	0.4 %	0.2 %	0.9 %	0.5 %	0.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5021 ppm	0.5063 ppm	0.4974 ppm	0.4954 ppm	0.5290 ppm	5.2729 ppm	0.4956 ppm
Concentration per Run 1	0.5099 ppm	0.5132 ppm	0.5037 ppm	0.5000 ppm	0.5283 ppm	5.2667 ppm	0.4959 ppm
Concentration per Run 2	0.5010 ppm	0.5049 ppm	0.4955 ppm	0.4964 ppm	0.5312 ppm	5.2912 ppm	0.4928 ppm
Concentration per Run 3	0.4956 ppm	0.5007 ppm	0.4931 ppm	0.4897 ppm	0.5277 ppm	5.2609 ppm	0.4983 ppm
Recovery Percentage 1	100.429 %	101.254 %	99.488 %	99.071 %	105.808 %	105.458 %	99.129 %
Concentration RSD	1.4 %	1.3 %	1.1 %	1.1 %	0.4 %	0.3 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4896 ppm	0.5026 ppm	0.4949 ppm	10.1728 ppm	0.5067 ppm	0.5012 ppm	0.4979 ppm
Concentration per Run 1	0.4987 ppm	0.5017 ppm	0.4991 ppm	10.1530 ppm	0.5134 ppm	0.5005 ppm	0.4999 ppm
Concentration per Run 2	0.4852 ppm	0.5045 ppm	0.4929 ppm	10.2267 ppm	0.5058 ppm	0.5028 ppm	0.5009 ppm
Concentration per Run 3	0.4850 ppm	0.5016 ppm	0.4927 ppm	10.1386 ppm	0.5008 ppm	0.5005 ppm	0.4929 ppm
Recovery Percentage 1	97.920 %	100.521 %	98.981 %	101.728 %	101.333 %	100.248 %	99.579 %
Concentration RSD	1.6 %	0.3 %	0.7 %	0.5 %	1.2 %	0.3 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5010 ppm	5.5707 ppm	0.4807 ppm	0.4875 ppm	0.5071 ppm	0.4970 ppm	0.5026 ppm
Concentration per Run 1	0.4988 ppm	5.6380 ppm	0.4857 ppm	0.4855 ppm	0.5135 ppm	0.4953 ppm	0.5070 ppm
Concentration per Run 2	0.5040 ppm	5.5582 ppm	0.4797 ppm	0.4891 ppm	0.5053 ppm	0.5007 ppm	0.5018 ppm
Concentration per Run 3	0.5003 ppm	5.5157 ppm	0.4768 ppm	0.4878 ppm	0.5023 ppm	0.4950 ppm	0.4988 ppm
Recovery Percentage 1	100.208 %	106.108 %	96.147 %	97.494 %	101.411 %	99.401 %	100.512 %
Concentration RSD	0.5 %	1.1 %	0.9 %	0.4 %	1.1 %	0.6 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4985 ppm	95.5200 %	104.3233 %	93.3881 %	92.4110 %	102.3764 %	94.0364 %
Concentration per Run 1	0.5059 ppm	94.4720 %	103.1977 %	93.5671 %	91.5658 %	101.2487 %	94.0467 %
Concentration per Run 2	0.4967 ppm	96.2311 %	105.7270 %	93.1447 %	93.0847 %	103.7988 %	93.8784 %
Concentration per Run 3	0.4927 ppm	95.8569 %	104.0452 %	93.4526 %	92.5825 %	102.0815 %	94.1840 %
Recovery Percentage 1	99.692 %						
Concentration RSD	1.4 %	1.0 %	1.2 %	0.2 %	0.8 %	1.3 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 8:00:09 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0021 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 1	0.0000 ppm	-0.0068 ppm	-0.0009 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0067 ppm
Concentration per Run 2	-0.0001 ppm	0.0023 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 3	-0.0002 ppm	-0.0016 ppm	-0.0002 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0017 ppm
Recovery Percentage 1	-1.472 %	-2.055 %	-0.961 %	1.422 %	0.156 %	0.871 %	3.692 %
Concentration RSD	136.5 %	221.9 %	3,235.5 %	92.6 %	423.6 %	47.0 %	72.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0015 ppm	0.0050 ppm	0.0025 ppm	0.0012 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0014 ppm	0.0037 ppm	-0.0073 ppm	0.0006 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0017 ppm	0.0062 ppm	0.0081 ppm	0.0015 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0013 ppm	0.0052 ppm	0.0066 ppm	0.0014 ppm
Recovery Percentage 1	2.306 %	-0.581 %	-0.497 %	14.616 %	10.039 %	0.098 %	11.566 %
Concentration RSD	53.3 %	125.9 %	333.3 %	14.7 %	25.4 %	346.5 %	44.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0001 ppm	0.0017 ppm	0.0014 ppm	0.0003 ppm	-0.0005 ppm	-0.0024 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0016 ppm	0.0078 ppm	0.0004 ppm	-0.0010 ppm	-0.0033 ppm
Concentration per Run 2	-0.0005 ppm	0.0001 ppm	0.0018 ppm	-0.0057 ppm	-0.0001 ppm	-0.0004 ppm	-0.0023 ppm
Concentration per Run 3	-0.0006 ppm	0.0000 ppm	0.0017 ppm	0.0021 ppm	0.0006 ppm	-0.0001 ppm	-0.0016 ppm
Recovery Percentage 1	-0.376 %	0.749 %	3.372 %	0.070 %	1.100 %	-4.973 %	-4.792 %
Concentration RSD	71.7 %	98.1 %	3.7 %	485.7 %	121.7 %	85.4 %	35.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	-0.0020 ppm	0.0003 ppm	0.0000 ppm	0.0006 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 1	0.0017 ppm	-0.0039 ppm	-0.0008 ppm	0.0000 ppm	0.0007 ppm	0.0007 ppm	0.0003 ppm
Concentration per Run 2	0.0010 ppm	-0.0024 ppm	0.0014 ppm	-0.0002 ppm	0.0007 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 3	0.0013 ppm	0.0002 ppm	0.0004 ppm	0.0001 ppm	0.0005 ppm	0.0007 ppm	-0.0004 ppm
Recovery Percentage 1	13.106 %	-0.401 %	0.694 %	-0.419 %	6.416 %	2.832 %	0.352 %
Concentration RSD	28.4 %	102.7 %	314.8 %	261.1 %	13.6 %	40.5 %	1,054.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0003 ppm	91.4355 %	101.8179 %	92.5740 %	92.6739 %	102.2162 %	94.3520 %
Concentration per Run 1	0.0005 ppm	89.8307 %	101.2577 %	92.3023 %	91.5962 %	101.3364 %	94.1611 %
Concentration per Run 2	0.0002 ppm	91.5740 %	102.0631 %	92.2639 %	92.8088 %	102.8087 %	93.9688 %
Concentration per Run 3	0.0003 ppm	92.9019 %	102.1330 %	93.1558 %	93.6167 %	102.5034 %	94.9260 %
Recovery Percentage 1	6.398 %						
Concentration RSD	47.3 %	1.7 %	0.5 %	0.5 %	1.1 %	0.8 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454068-01 WG1975762
Analysis started at: 9/26/2024 8:07:58 PM
Rack 3
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0400 ppm	0.0019 ppm	0.0612 ppm	0.0400 ppm	0.0001 ppm	153.3084 ppm
Concentration per Run 1	-0.0001 ppm	0.0373 ppm	0.0021 ppm	0.0609 ppm	0.0397 ppm	0.0001 ppm	151.9968 ppm
Concentration per Run 2	0.0000 ppm	0.0485 ppm	0.0017 ppm	0.0615 ppm	0.0401 ppm	0.0002 ppm	153.3077 ppm
Concentration per Run 3	-0.0001 ppm	0.0342 ppm	0.0020 ppm	0.0612 ppm	0.0403 ppm	0.0002 ppm	154.6206 ppm
Concentration RSD	81.3 %	18.9 %	9.4 %	0.5 %	0.8 %	23.3 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0125 ppm	0.0006 ppm	0.0016 ppm	23.1207 ppm	14.8090 ppm	0.0123 ppm
Concentration per Run 1	-0.0005 ppm	0.0125 ppm	0.0003 ppm	0.0015 ppm	23.0061 ppm	14.7690 ppm	0.0136 ppm
Concentration per Run 2	-0.0007 ppm	0.0126 ppm	0.0007 ppm	0.0018 ppm	23.1066 ppm	14.7490 ppm	0.0116 ppm
Concentration per Run 3	-0.0006 ppm	0.0124 ppm	0.0007 ppm	0.0014 ppm	23.2495 ppm	14.9091 ppm	0.0118 ppm
Concentration RSD	9.5 %	0.6 %	40.5 %	13.7 %	0.5 %	0.6 %	8.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	35.0238 ppm	1.2821 ppm	0.0300 ppm	134.3368 ppm	0.0564 ppm	0.0030 ppm	-0.0030 ppm
Concentration per Run 1	35.3841 ppm	1.2720 ppm	0.0296 ppm	133.5922 ppm	0.0566 ppm	0.0023 ppm	-0.0002 ppm
Concentration per Run 2	35.2123 ppm	1.2849 ppm	0.0306 ppm	134.5132 ppm	0.0570 ppm	0.0036 ppm	-0.0047 ppm
Concentration per Run 3	34.4750 ppm	1.2894 ppm	0.0299 ppm	134.9051 ppm	0.0557 ppm	0.0030 ppm	-0.0041 ppm
Concentration RSD	1.4 %	0.7 %	1.8 %	0.5 %	1.2 %	22.1 %	79.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0026 ppm	6.4135 ppm	-0.0001 ppm	0.6780 ppm	0.0018 ppm	-0.0005 ppm	0.0099 ppm
Concentration per Run 1	0.0036 ppm	6.4714 ppm	-0.0003 ppm	0.6717 ppm	0.0015 ppm	-0.0007 ppm	0.0100 ppm
Concentration per Run 2	0.0040 ppm	6.4178 ppm	-0.0002 ppm	0.6801 ppm	0.0018 ppm	0.0012 ppm	0.0098 ppm
Concentration per Run 3	0.0002 ppm	6.3515 ppm	0.0002 ppm	0.6823 ppm	0.0021 ppm	-0.0021 ppm	0.0098 ppm
Concentration RSD	80.7 %	0.9 %	400.1 %	0.8 %	16.7 %	294.1 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0767 ppm	96.3122 %	102.1137 %	89.0234 %	114.3070 %	121.5834 %	111.7633 %
Concentration per Run 1	1.0878 ppm	95.4960 %	102.9635 %	88.4993 %	114.2563 %	122.4085 %	111.4883 %
Concentration per Run 2	1.0800 ppm	95.6985 %	102.7983 %	89.0945 %	113.4416 %	122.1833 %	111.8837 %
Concentration per Run 3	1.0623 ppm	97.7422 %	100.5792 %	89.4763 %	115.2230 %	120.1584 %	111.9178 %
Concentration RSD	1.2 %	1.3 %	1.3 %	0.6 %	0.8 %	1.0 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454068-03 WG1975762
Analysis started at: 9/26/2024 8:12:17 PM
Rack 3
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.3692 ppm	0.0041 ppm	0.2631 ppm	0.0558 ppm	0.0005 ppm	76.0046 ppm
Concentration per Run 1	-0.0001 ppm	0.3806 ppm	0.0037 ppm	0.2657 ppm	0.0584 ppm	0.0005 ppm	78.8201 ppm
Concentration per Run 2	-0.0002 ppm	0.3810 ppm	0.0046 ppm	0.2648 ppm	0.0573 ppm	0.0005 ppm	78.9271 ppm
Concentration per Run 3	-0.0003 ppm	0.3461 ppm	0.0039 ppm	0.2588 ppm	0.0517 ppm	0.0005 ppm	70.2667 ppm
Concentration RSD	62.5 %	5.4 %	11.4 %	1.4 %	6.4 %	4.9 %	6.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0022 ppm	0.1757 ppm	-0.0005 ppm	0.0155 ppm	60.1204 ppm	22.0585 ppm	0.0148 ppm
Concentration per Run 1	0.0023 ppm	0.1760 ppm	-0.0004 ppm	0.0157 ppm	62.8303 ppm	23.0365 ppm	0.0153 ppm
Concentration per Run 2	0.0022 ppm	0.1756 ppm	-0.0007 ppm	0.0155 ppm	62.1519 ppm	22.7308 ppm	0.0159 ppm
Concentration per Run 3	0.0022 ppm	0.1755 ppm	-0.0002 ppm	0.0154 ppm	55.3789 ppm	20.4081 ppm	0.0133 ppm
Concentration RSD	3.4 %	0.1 %	56.3 %	1.0 %	6.9 %	6.5 %	9.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.7140 ppm	5.3925 ppm	-0.0003 ppm	219.4781 ppm	0.1436 ppm	0.0008 ppm	-0.0024 ppm
Concentration per Run 1	31.9370 ppm	5.5967 ppm	-0.0004 ppm	228.3714 ppm	0.1445 ppm	0.0002 ppm	-0.0026 ppm
Concentration per Run 2	31.6691 ppm	5.6034 ppm	-0.0003 ppm	227.2337 ppm	0.1434 ppm	0.0016 ppm	-0.0031 ppm
Concentration per Run 3	31.5360 ppm	4.9776 ppm	0.0000 ppm	202.8290 ppm	0.1430 ppm	0.0007 ppm	-0.0016 ppm
Concentration RSD	0.6 %	6.7 %	86.2 %	6.6 %	0.5 %	81.2 %	30.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	6.7999 ppm	-0.0005 ppm	0.5119 ppm	0.0006 ppm	-0.0017 ppm	0.0035 ppm
Concentration per Run 1	-0.0017 ppm	6.8408 ppm	-0.0001 ppm	0.5328 ppm	0.0006 ppm	-0.0012 ppm	0.0034 ppm
Concentration per Run 2	0.0013 ppm	6.8126 ppm	-0.0010 ppm	0.5319 ppm	0.0004 ppm	-0.0028 ppm	0.0036 ppm
Concentration per Run 3	0.0001 ppm	6.7464 ppm	-0.0004 ppm	0.4710 ppm	0.0007 ppm	-0.0011 ppm	0.0034 ppm
Concentration RSD	1,350.3 %	0.7 %	82.3 %	6.9 %	25.5 %	53.8 %	2.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.2319 ppm	94.8874 %	113.2752 %	89.8980 %	106.4965 %	125.0292 %	106.9922 %
Concentration per Run 1	2.2507 ppm	94.6885 %	109.5436 %	90.4254 %	107.2952 %	123.8765 %	107.3333 %
Concentration per Run 2	2.2292 ppm	94.9376 %	109.6103 %	89.8811 %	106.2106 %	124.1799 %	107.0245 %
Concentration per Run 3	2.2158 ppm	95.0362 %	120.6717 %	89.3874 %	105.9837 %	127.0312 %	106.6187 %
Concentration RSD	0.8 %	0.2 %	5.7 %	0.6 %	0.7 %	1.4 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454068-07 WG1975762
Analysis started at: 9/26/2024 8:16:16 PM
Rack 3
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0889 ppm	-0.0002 ppm	0.2823 ppm	0.0685 ppm	0.0000 ppm	25.0726 ppm
Concentration per Run 1	0.0000 ppm	0.0903 ppm	0.0011 ppm	0.2894 ppm	0.0691 ppm	0.0000 ppm	25.1656 ppm
Concentration per Run 2	0.0004 ppm	0.0822 ppm	-0.0007 ppm	0.2809 ppm	0.0683 ppm	0.0000 ppm	25.1992 ppm
Concentration per Run 3	-0.0001 ppm	0.0944 ppm	-0.0009 ppm	0.2767 ppm	0.0682 ppm	0.0000 ppm	24.8530 ppm
Concentration RSD	210.5 %	7.0 %	656.1 %	2.3 %	0.7 %	216.1 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0114 ppm	0.0973 ppm	0.0039 ppm	0.7574 ppm	23.6029 ppm	29.4615 ppm	0.0011 ppm
Concentration per Run 1	0.0117 ppm	0.0998 ppm	0.0042 ppm	0.7745 ppm	23.7265 ppm	29.6286 ppm	0.0009 ppm
Concentration per Run 2	0.0113 ppm	0.0968 ppm	0.0038 ppm	0.7534 ppm	23.5710 ppm	29.4999 ppm	-0.0002 ppm
Concentration per Run 3	0.0112 ppm	0.0953 ppm	0.0037 ppm	0.7442 ppm	23.5112 ppm	29.2561 ppm	0.0025 ppm
Concentration RSD	2.2 %	2.4 %	7.5 %	2.1 %	0.5 %	0.6 %	126.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.8693 ppm	2.4470 ppm	0.0020 ppm	169.0284 ppm	0.2300 ppm	0.0564 ppm	-0.0022 ppm
Concentration per Run 1	15.2767 ppm	2.4571 ppm	0.0015 ppm	169.4507 ppm	0.2378 ppm	0.0564 ppm	-0.0032 ppm
Concentration per Run 2	14.7699 ppm	2.4565 ppm	0.0023 ppm	169.9171 ppm	0.2270 ppm	0.0571 ppm	0.0003 ppm
Concentration per Run 3	14.5612 ppm	2.4275 ppm	0.0022 ppm	167.7176 ppm	0.2254 ppm	0.0558 ppm	-0.0037 ppm
Concentration RSD	2.5 %	0.7 %	20.6 %	0.7 %	2.9 %	1.2 %	98.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	3.1850 ppm	-0.0003 ppm	0.1596 ppm	0.0043 ppm	-0.0002 ppm	0.0054 ppm
Concentration per Run 1	-0.0004 ppm	3.2687 ppm	-0.0001 ppm	0.1601 ppm	0.0045 ppm	-0.0003 ppm	0.0056 ppm
Concentration per Run 2	0.0024 ppm	3.1593 ppm	-0.0001 ppm	0.1602 ppm	0.0042 ppm	-0.0006 ppm	0.0053 ppm
Concentration per Run 3	0.0011 ppm	3.1268 ppm	-0.0007 ppm	0.1586 ppm	0.0043 ppm	0.0003 ppm	0.0052 ppm
Concentration RSD	141.2 %	2.3 %	128.9 %	0.6 %	3.9 %	225.0 %	3.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	4.2117 ppm	93.2290 %	107.9085 %	92.2634 %	**178.2697 %**	**202.3504 %**	**180.8146 %**
Concentration per Run 1	4.3555 ppm	90.7906 %	107.5976 %	92.0491 %	**176.2714 %**	**201.9248 %**	**181.2887 %**
Concentration per Run 2	4.1555 ppm	93.8196 %	106.9406 %	91.7796 %	**178.7895 %**	**201.3517 %**	**180.6679 %**
Concentration per Run 3	4.1240 ppm	95.0767 %	109.1872 %	92.9614 %	**179.7484 %**	**203.7746 %**	**180.4871 %**
Concentration RSD	3.0 %	2.4 %	1.1 %	0.7 %	**1.0 %**	**0.6 %**	**0.2 %**

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454068-08 WG1975762
Analysis started at: 9/26/2024 8:20:15 PM
Rack 3
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	0.0325 ppm	0.0015 ppm	0.0887 ppm	0.2332 ppm	0.0000 ppm	1,035.5972 [SIC 1500]
Concentration per Run 1	-0.0011 ppm	0.0298 ppm	0.0002 ppm	0.0909 ppm	0.2322 ppm	0.0000 ppm	1,041.7053 ppm
Concentration per Run 2	-0.0007 ppm	0.0321 ppm	0.0015 ppm	0.0885 ppm	0.2358 ppm	0.0000 ppm	1,035.8206 ppm
Concentration per Run 3	-0.0007 ppm	0.0357 ppm	0.0027 ppm	0.0868 ppm	0.2317 ppm	0.0000 ppm	1,029.2659 ppm
Concentration RSD	30.0 %	9.1 %	86.1 %	2.3 %	1.0 %	47.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0051 ppm	0.0002 ppm	-0.0004 ppm	0.0021 ppm	27.8671 ppm	12.4770 ppm	0.0490 ppm
Concentration per Run 1	-0.0053 ppm	0.0003 ppm	-0.0005 ppm	0.0018 ppm	27.8936 ppm	12.5208 ppm	0.0515 ppm
Concentration per Run 2	-0.0051 ppm	0.0002 ppm	-0.0004 ppm	0.0020 ppm	28.0002 ppm	12.4843 ppm	0.0476 ppm
Concentration per Run 3	-0.0050 ppm	0.0001 ppm	-0.0002 ppm	0.0023 ppm	27.7075 ppm	12.4261 ppm	0.0480 ppm
Concentration RSD	2.5 %	38.9 %	43.2 %	11.6 %	0.5 %	0.4 %	4.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	174.3043 ppm	3.0916 ppm	0.0520 ppm	269.3115 ppm	0.0006 ppm	-0.0011 ppm	-0.0019 ppm
Concentration per Run 1	178.0663 ppm	3.1035 ppm	0.0532 ppm	269.9753 ppm	0.0012 ppm	-0.0006 ppm	-0.0024 ppm
Concentration per Run 2	173.4802 ppm	3.0976 ppm	0.0516 ppm	271.9476 ppm	0.0009 ppm	-0.0014 ppm	-0.0013 ppm
Concentration per Run 3	171.3664 ppm	3.0736 ppm	0.0513 ppm	266.0115 ppm	-0.0002 ppm	-0.0011 ppm	-0.0020 ppm
Concentration RSD	2.0 %	0.5 %	2.0 %	1.1 %	120.4 %	42.5 %	30.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	0.1160 ppm	-0.0004 ppm	5.4777 ppm	-0.0006 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 1	-0.0016 ppm	0.1187 ppm	-0.0002 ppm	5.4917 ppm	-0.0006 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 2	0.0005 ppm	0.1136 ppm	-0.0011 ppm	5.4863 ppm	-0.0005 ppm	-0.0018 ppm	-0.0001 ppm
Concentration per Run 3	0.0006 ppm	0.1157 ppm	0.0000 ppm	5.4549 ppm	-0.0008 ppm	0.0016 ppm	-0.0005 ppm
Concentration RSD	670.4 %	2.2 %	134.0 %	0.4 %	25.8 %	1,612.4 %	131.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0148 ppm	83.0418 %	98.4059 %	75.5820 %	81.9981 %	96.9093 %	80.7878 %
Concentration per Run 1	0.0151 ppm	81.3882 %	97.8358 %	75.4795 %	81.2197 %	96.4642 %	80.6629 %
Concentration per Run 2	0.0146 ppm	83.2997 %	98.4842 %	74.8722 %	82.0263 %	96.9763 %	80.2606 %
Concentration per Run 3	0.0147 ppm	84.4376 %	98.8975 %	76.3944 %	82.7483 %	97.2874 %	81.4399 %
Concentration RSD	1.7 %	1.9 %	0.5 %	1.0 %	0.9 %	0.4 %	0.7 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454312-02 WG1975762
Analysis started at: 9/26/2024 8:24:14 PM
Rack 3
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.4198 ppm	0.0009 ppm	0.1663 ppm	0.0297 ppm	0.0001 ppm	58.6368 ppm
Concentration per Run 1	-0.0002 ppm	0.4253 ppm	0.0007 ppm	0.1705 ppm	0.0299 ppm	0.0001 ppm	58.8060 ppm
Concentration per Run 2	0.0000 ppm	0.4216 ppm	0.0010 ppm	0.1651 ppm	0.0301 ppm	0.0000 ppm	58.7286 ppm
Concentration per Run 3	-0.0003 ppm	0.4125 ppm	0.0008 ppm	0.1633 ppm	0.0291 ppm	0.0001 ppm	58.3758 ppm
Concentration RSD	96.2 %	1.6 %	18.3 %	2.3 %	1.7 %	73.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0031 ppm	0.2933 ppm	7.7352 ppm	0.0017 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0033 ppm	0.2922 ppm	7.8161 ppm	0.0021 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0032 ppm	0.2969 ppm	7.7836 ppm	0.0022 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0027 ppm	0.2908 ppm	7.6058 ppm	0.0009 ppm
Concentration RSD	38.8 %	143.9 %	125.6 %	9.2 %	1.1 %	1.5 %	41.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.2448 ppm	0.1378 ppm	0.0006 ppm	188.8594 ppm	0.0013 ppm	0.0021 ppm	-0.0031 ppm
Concentration per Run 1	12.6161 ppm	0.1385 ppm	0.0004 ppm	189.4381 ppm	0.0013 ppm	0.0018 ppm	-0.0035 ppm
Concentration per Run 2	12.1715 ppm	0.1380 ppm	0.0006 ppm	190.7249 ppm	0.0015 ppm	0.0015 ppm	-0.0024 ppm
Concentration per Run 3	11.9466 ppm	0.1371 ppm	0.0006 ppm	186.4152 ppm	0.0011 ppm	0.0032 ppm	-0.0032 ppm
Concentration RSD	2.8 %	0.5 %	23.3 %	1.2 %	12.2 %	42.3 %	17.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	5.5312 ppm	-0.0015 ppm	0.3578 ppm	0.0077 ppm	-0.0003 ppm	0.0008 ppm
Concentration per Run 1	0.0005 ppm	5.6649 ppm	-0.0009 ppm	0.3594 ppm	0.0080 ppm	-0.0007 ppm	0.0008 ppm
Concentration per Run 2	0.0041 ppm	5.5185 ppm	-0.0019 ppm	0.3560 ppm	0.0075 ppm	0.0008 ppm	0.0009 ppm
Concentration per Run 3	0.0005 ppm	5.4103 ppm	-0.0017 ppm	0.3580 ppm	0.0076 ppm	-0.0011 ppm	0.0006 ppm
Concentration RSD	124.1 %	2.3 %	34.4 %	0.5 %	3.0 %	289.4 %	19.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0564 ppm	87.3805 %	101.1927 %	86.5774 %	90.1652 %	101.4198 %	91.2563 %
Concentration per Run 1	0.0581 ppm	85.0899 %	100.5787 %	85.7412 %	89.0970 %	100.8240 %	90.9905 %
Concentration per Run 2	0.0558 ppm	87.8608 %	101.4692 %	86.8298 %	90.5674 %	101.6838 %	91.3320 %
Concentration per Run 3	0.0552 ppm	89.1908 %	101.5304 %	87.1612 %	90.8311 %	101.7517 %	91.4466 %
Concentration RSD	2.8 %	2.4 %	0.5 %	0.9 %	1.0 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454312-03 WG1975762
Analysis started at: 9/26/2024 8:28:14 PM
Rack 3
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0135 ppm	-0.0001 ppm	0.0539 ppm	0.0615 ppm	0.0000 ppm	30.8037 ppm
Concentration per Run 1	-0.0003 ppm	0.0141 ppm	-0.0007 ppm	0.0546 ppm	0.0613 ppm	0.0000 ppm	30.7731 ppm
Concentration per Run 2	0.0000 ppm	0.0126 ppm	0.0007 ppm	0.0536 ppm	0.0616 ppm	0.0000 ppm	30.9840 ppm
Concentration per Run 3	0.0003 ppm	0.0138 ppm	-0.0003 ppm	0.0536 ppm	0.0615 ppm	0.0000 ppm	30.6539 ppm
Concentration RSD	2,379.7 %	6.1 %	720.2 %	1.0 %	0.3 %	211.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0022 ppm	0.0462 ppm	6.8058 ppm	0.0009 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0024 ppm	0.0475 ppm	6.8490 ppm	0.0022 ppm
Concentration per Run 2	-0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0021 ppm	0.0457 ppm	6.8632 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0022 ppm	0.0453 ppm	6.7051 ppm	-0.0002 ppm
Concentration RSD	42.0 %	343.9 %	17.9 %	8.4 %	2.6 %	1.3 %	137.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.1592 ppm	0.0212 ppm	0.0029 ppm	153.0697 ppm	0.0012 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 1	5.2900 ppm	0.0212 ppm	0.0032 ppm	152.0763 ppm	0.0008 ppm	0.0005 ppm	0.0005 ppm
Concentration per Run 2	5.1446 ppm	0.0212 ppm	0.0033 ppm	154.2962 ppm	0.0017 ppm	-0.0002 ppm	0.0021 ppm
Concentration per Run 3	5.0430 ppm	0.0211 ppm	0.0023 ppm	152.8366 ppm	0.0011 ppm	0.0005 ppm	-0.0028 ppm
Concentration RSD	2.4 %	0.3 %	18.5 %	0.7 %	36.3 %	141.9 %	2,629.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	4.4258 ppm	-0.0013 ppm	0.1505 ppm	0.0009 ppm	-0.0002 ppm	0.0014 ppm
Concentration per Run 1	0.0022 ppm	4.5271 ppm	-0.0013 ppm	0.1506 ppm	0.0008 ppm	-0.0003 ppm	0.0015 ppm
Concentration per Run 2	0.0017 ppm	4.4217 ppm	-0.0012 ppm	0.1510 ppm	0.0011 ppm	-0.0005 ppm	0.0014 ppm
Concentration per Run 3	0.0014 ppm	4.3286 ppm	-0.0014 ppm	0.1499 ppm	0.0007 ppm	0.0001 ppm	0.0011 ppm
Concentration RSD	23.3 %	2.2 %	7.2 %	0.4 %	21.5 %	161.2 %	15.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0068 ppm	87.3168 %	100.6809 %	87.6263 %	90.4069 %	101.2196 %	91.8799 %
Concentration per Run 1	0.0070 ppm	85.4013 %	100.0667 %	87.3608 %	89.8073 %	100.7480 %	92.0846 %
Concentration per Run 2	0.0068 ppm	87.4077 %	100.3916 %	87.3740 %	90.3185 %	101.1399 %	91.5022 %
Concentration per Run 3	0.0065 ppm	89.1414 %	101.5843 %	88.1441 %	91.0948 %	101.7708 %	92.0529 %
Concentration RSD	3.3 %	2.1 %	0.8 %	0.5 %	0.7 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454312-04 WG1975762
Analysis started at: 9/26/2024 8:32:13 PM
Rack 3
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.3930 ppm	0.0000 ppm	0.1044 ppm	0.0661 ppm	0.0001 ppm	32.6851 ppm
Concentration per Run 1	-0.0005 ppm	0.3958 ppm	0.0006 ppm	0.1047 ppm	0.0663 ppm	0.0001 ppm	32.8063 ppm
Concentration per Run 2	0.0000 ppm	0.3937 ppm	-0.0015 ppm	0.1043 ppm	0.0663 ppm	0.0001 ppm	32.7077 ppm
Concentration per Run 3	-0.0003 ppm	0.3896 ppm	0.0009 ppm	0.1043 ppm	0.0658 ppm	0.0001 ppm	32.5412 ppm
Concentration RSD	114.3 %	0.8 %	6,478.8 %	0.2 %	0.4 %	10.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0031 ppm	0.0003 ppm	0.0033 ppm	0.4163 ppm	9.2840 ppm	0.0104 ppm
Concentration per Run 1	0.0002 ppm	0.0034 ppm	0.0004 ppm	0.0033 ppm	0.4174 ppm	9.3472 ppm	0.0112 ppm
Concentration per Run 2	0.0002 ppm	0.0032 ppm	0.0005 ppm	0.0033 ppm	0.4158 ppm	9.2413 ppm	0.0104 ppm
Concentration per Run 3	0.0002 ppm	0.0027 ppm	0.0002 ppm	0.0033 ppm	0.4159 ppm	9.2634 ppm	0.0097 ppm
Concentration RSD	4.1 %	10.8 %	47.1 %	1.3 %	0.2 %	0.6 %	7.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.9508 ppm	0.6547 ppm	0.0003 ppm	223.4712 ppm	0.0037 ppm	-0.0001 ppm	-0.0011 ppm
Concentration per Run 1	8.0934 ppm	0.6581 ppm	0.0005 ppm	223.9067 ppm	0.0041 ppm	-0.0004 ppm	0.0006 ppm
Concentration per Run 2	7.9266 ppm	0.6544 ppm	0.0001 ppm	223.8632 ppm	0.0029 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 3	7.8323 ppm	0.6515 ppm	0.0002 ppm	222.6437 ppm	0.0040 ppm	0.0001 ppm	-0.0031 ppm
Concentration RSD	1.7 %	0.5 %	87.7 %	0.3 %	18.5 %	527.0 %	174.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	4.4473 ppm	-0.0009 ppm	0.3084 ppm	0.0064 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 1	0.0017 ppm	4.4967 ppm	-0.0006 ppm	0.3090 ppm	0.0066 ppm	0.0013 ppm	0.0007 ppm
Concentration per Run 2	0.0014 ppm	4.4367 ppm	-0.0006 ppm	0.3077 ppm	0.0064 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 3	0.0006 ppm	4.4084 ppm	-0.0015 ppm	0.3084 ppm	0.0063 ppm	-0.0009 ppm	0.0007 ppm
Concentration RSD	46.8 %	1.0 %	57.5 %	0.2 %	1.9 %	2,006.3 %	23.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1620 ppm	87.9876 %	100.8520 %	86.8770 %	90.6869 %	101.0836 %	91.5534 %
Concentration per Run 1	0.1648 ppm	86.2680 %	100.9596 %	86.8648 %	90.1629 %	101.8238 %	91.7741 %
Concentration per Run 2	0.1613 ppm	88.5688 %	99.2883 %	86.3052 %	91.2234 %	99.3341 %	90.9720 %
Concentration per Run 3	0.1599 ppm	89.1260 %	102.3082 %	87.4610 %	90.6743 %	102.0929 %	91.9141 %
Concentration RSD	1.6 %	1.7 %	1.5 %	0.7 %	0.6 %	1.5 %	0.6 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2455018-10D4 WG1976295
Analysis started at: 9/26/2024 8:36:12 PM
Rack 3
Vial 15
Comment Ca over sic RR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	41.4244 ppm	0.0143 ppm	0.0356 ppm	0.2414 ppm	0.0015 ppm	528.6735 ppm
Concentration per Run 1	-0.0006 ppm	40.9759 ppm	0.0139 ppm	0.0366 ppm	0.2370 ppm	0.0016 ppm	530.1820 ppm
Concentration per Run 2	-0.0009 ppm	41.2903 ppm	0.0141 ppm	0.0351 ppm	0.2412 ppm	0.0016 ppm	531.9430 ppm
Concentration per Run 3	0.0000 ppm	42.0070 ppm	0.0150 ppm	0.0352 ppm	0.2461 ppm	0.0013 ppm	523.8956 ppm
Concentration RSD	98.6 %	1.3 %	4.0 %	2.4 %	1.9 %	13.8 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0020 ppm	0.0174 ppm	0.1073 ppm	0.0698 ppm	56.6834 ppm	15.8284 ppm	0.0470 ppm
Concentration per Run 1	-0.0019 ppm	0.0175 ppm	0.1092 ppm	0.0702 ppm	55.5160 ppm	15.3578 ppm	0.0468 ppm
Concentration per Run 2	-0.0020 ppm	0.0170 ppm	0.1071 ppm	0.0691 ppm	56.4012 ppm	15.5349 ppm	0.0439 ppm
Concentration per Run 3	-0.0020 ppm	0.0177 ppm	0.1057 ppm	0.0703 ppm	58.1329 ppm	16.5927 ppm	0.0503 ppm
Concentration RSD	3.4 %	2.1 %	1.6 %	1.0 %	2.3 %	4.2 %	6.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	67.2072 ppm	0.9353 ppm	0.0030 ppm	7.1464 ppm	0.0620 ppm	0.8650 ppm	-0.0015 ppm
Concentration per Run 1	68.2182 ppm	0.9282 ppm	0.0033 ppm	6.9357 ppm	0.0631 ppm	0.8669 ppm	-0.0011 ppm
Concentration per Run 2	66.9236 ppm	0.9381 ppm	0.0030 ppm	7.0402 ppm	0.0620 ppm	0.8690 ppm	-0.0004 ppm
Concentration per Run 3	66.4799 ppm	0.9397 ppm	0.0027 ppm	7.4631 ppm	0.0611 ppm	0.8590 ppm	-0.0030 ppm
Concentration RSD	1.3 %	0.7 %	9.6 %	3.9 %	1.6 %	0.6 %	90.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	2.1215 ppm	0.0028 ppm	0.9599 ppm	4.1164 ppm	0.0029 ppm	0.1253 ppm
Concentration per Run 1	0.0010 ppm	2.1474 ppm	0.0029 ppm	0.9647 ppm	4.1723 ppm	0.0023 ppm	0.1273 ppm
Concentration per Run 2	0.0012 ppm	2.1007 ppm	0.0025 ppm	0.9717 ppm	4.1069 ppm	0.0042 ppm	0.1256 ppm
Concentration per Run 3	-0.0012 ppm	2.1163 ppm	0.0031 ppm	0.9431 ppm	4.0701 ppm	0.0022 ppm	0.1229 ppm
Concentration RSD	388.5 %	1.1 %	11.4 %	1.6 %	1.3 %	38.8 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2034 ppm	90.3309 %	100.7922 %	80.6666 %	93.4342 %	107.5156 %	95.1076 %
Concentration per Run 1	0.2053 ppm	88.8997 %	100.0346 %	80.3811 %	92.0964 %	107.4105 %	94.9769 %
Concentration per Run 2	0.2000 ppm	90.3477 %	98.7998 %	80.6093 %	93.2080 %	105.6716 %	94.9576 %
Concentration per Run 3	0.2048 ppm	91.7452 %	103.5422 %	81.0095 %	94.9981 %	109.4647 %	95.3882 %
Concentration RSD	1.4 %	1.6 %	2.4 %	0.4 %	1.6 %	1.8 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 8:40:11 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5031 ppm	0.4946 ppm	0.4827 ppm	0.4932 ppm	0.5082 ppm	0.5191 ppm	0.5075 ppm
Concentration per Run 1	0.5077 ppm	0.4972 ppm	0.4835 ppm	0.4955 ppm	0.5066 ppm	0.5194 ppm	0.5028 ppm
Concentration per Run 2	0.5030 ppm	0.4945 ppm	0.4820 ppm	0.4944 ppm	0.5085 ppm	0.5169 ppm	0.5101 ppm
Concentration per Run 3	0.4985 ppm	0.4921 ppm	0.4825 ppm	0.4895 ppm	0.5095 ppm	0.5210 ppm	0.5096 ppm
Recovery Percentage 1	100.610 %	98.923 %	96.537 %	98.630 %	101.636 %	103.824 %	101.500 %
Concentration RSD	0.9 %	0.5 %	0.2 %	0.7 %	0.3 %	0.4 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5061 ppm	0.5085 ppm	0.4990 ppm	0.4948 ppm	0.5233 ppm	5.3379 ppm	0.5006 ppm
Concentration per Run 1	0.5103 ppm	0.5120 ppm	0.5035 ppm	0.4990 ppm	0.5198 ppm	5.3399 ppm	0.5024 ppm
Concentration per Run 2	0.5077 ppm	0.5092 ppm	0.4991 ppm	0.4962 ppm	0.5273 ppm	5.3507 ppm	0.4977 ppm
Concentration per Run 3	0.5003 ppm	0.5042 ppm	0.4944 ppm	0.4892 ppm	0.5228 ppm	5.3232 ppm	0.5016 ppm
Recovery Percentage 1	101.222 %	101.693 %	99.804 %	98.957 %	104.659 %	106.758 %	100.112 %
Concentration RSD	1.0 %	0.8 %	0.9 %	1.0 %	0.7 %	0.3 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4928 ppm	0.5023 ppm	0.4957 ppm	10.2141 ppm	0.5088 ppm	0.5006 ppm	0.4977 ppm
Concentration per Run 1	0.4986 ppm	0.4983 ppm	0.4955 ppm	10.1425 ppm	0.5160 ppm	0.4993 ppm	0.4986 ppm
Concentration per Run 2	0.4938 ppm	0.5056 ppm	0.4970 ppm	10.2737 ppm	0.5084 ppm	0.5021 ppm	0.4991 ppm
Concentration per Run 3	0.4861 ppm	0.5029 ppm	0.4946 ppm	10.2262 ppm	0.5020 ppm	0.5003 ppm	0.4955 ppm
Recovery Percentage 1	98.569 %	100.457 %	99.137 %	102.141 %	101.760 %	100.112 %	99.545 %
Concentration RSD	1.3 %	0.7 %	0.2 %	0.7 %	1.4 %	0.3 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5004 ppm	5.5777 ppm	0.4848 ppm	0.4894 ppm	0.5057 ppm	0.4957 ppm	0.5020 ppm
Concentration per Run 1	0.4974 ppm	5.6064 ppm	0.4864 ppm	0.4863 ppm	0.5094 ppm	0.4943 ppm	0.5068 ppm
Concentration per Run 2	0.5043 ppm	5.5943 ppm	0.4873 ppm	0.4915 ppm	0.5051 ppm	0.5011 ppm	0.5011 ppm
Concentration per Run 3	0.4994 ppm	5.5325 ppm	0.4806 ppm	0.4903 ppm	0.5026 ppm	0.4916 ppm	0.4980 ppm
Recovery Percentage 1	100.072 %	106.242 %	96.951 %	97.877 %	101.142 %	99.130 %	100.394 %
Concentration RSD	0.7 %	0.7 %	0.7 %	0.5 %	0.7 %	1.0 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5036 ppm	94.6424 %	104.3852 %	93.2156 %	91.7358 %	102.2465 %	93.6620 %
Concentration per Run 1	0.5078 ppm	94.2120 %	106.5619 %	93.2290 %	91.4716 %	104.3975 %	93.3012 %
Concentration per Run 2	0.5054 ppm	94.3078 %	102.3909 %	93.4474 %	91.5589 %	100.4174 %	94.0473 %
Concentration per Run 3	0.4976 ppm	95.4075 %	104.2029 %	92.9705 %	92.1770 %	101.9246 %	93.6375 %
Recovery Percentage 1	100.724 %						
Concentration RSD	1.1 %	0.7 %	2.0 %	0.3 %	0.4 %	2.0 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 8:44:08 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0010 ppm	0.0007 ppm	0.0013 ppm	-0.0001 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 1	-0.0001 ppm	-0.0010 ppm	0.0009 ppm	0.0016 ppm	-0.0002 ppm	0.0000 ppm	0.0035 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 3	-0.0003 ppm	-0.0026 ppm	0.0009 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Recovery Percentage 1	-2.523 %	-1.020 %	24.715 %	4.379 %	-0.942 %	0.129 %	1.518 %
Concentration RSD	72.6 %	149.5 %	40.9 %	43.8 %	83.1 %	265.6 %	126.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0016 ppm	0.0049 ppm	0.0148 ppm	0.0008 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0015 ppm	0.0046 ppm	0.0206 ppm	0.0012 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0020 ppm	0.0056 ppm	0.0202 ppm	0.0010 ppm
Concentration per Run 3	0.0001 ppm	-0.0007 ppm	-0.0003 ppm	0.0013 ppm	0.0045 ppm	0.0038 ppm	0.0004 ppm
Recovery Percentage 1	1.710 %	-0.899 %	-0.755 %	15.893 %	9.832 %	0.594 %	8.496 %
Concentration RSD	87.3 %	262.7 %	363.0 %	20.8 %	12.7 %	64.4 %	53.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0011 ppm	0.0001 ppm	0.0016 ppm	0.0269 ppm	0.0004 ppm	-0.0002 ppm	-0.0023 ppm
Concentration per Run 1	-0.0020 ppm	0.0000 ppm	0.0020 ppm	0.0289 ppm	0.0005 ppm	-0.0006 ppm	-0.0026 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0013 ppm	0.0265 ppm	0.0009 ppm	0.0003 ppm	-0.0020 ppm
Concentration per Run 3	-0.0012 ppm	0.0001 ppm	0.0014 ppm	0.0253 ppm	-0.0002 ppm	-0.0003 ppm	-0.0024 ppm
Recovery Percentage 1	-1.106 %	1.436 %	3.150 %	1.346 %	1.561 %	-2.157 %	-4.607 %
Concentration RSD	83.5 %	92.3 %	21.2 %	6.9 %	145.8 %	206.8 %	13.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	-0.0042 ppm	-0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0011 ppm	-0.0001 ppm
Concentration per Run 1	0.0038 ppm	-0.0038 ppm	-0.0005 ppm	-0.0001 ppm	0.0005 ppm	0.0011 ppm	-0.0001 ppm
Concentration per Run 2	0.0008 ppm	-0.0045 ppm	-0.0005 ppm	0.0001 ppm	0.0006 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run 3	0.0023 ppm	-0.0043 ppm	0.0005 ppm	0.0001 ppm	0.0005 ppm	0.0015 ppm	0.0001 ppm
Recovery Percentage 1	22.838 %	-0.842 %	-0.332 %	0.465 %	5.177 %	5.340 %	-0.766 %
Concentration RSD	65.2 %	9.4 %	325.0 %	239.0 %	11.3 %	43.7 %	155.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	92.0935 %	101.0079 %	93.0933 %	93.6609 %	101.5420 %	94.9669 %
Concentration per Run 1	0.0003 ppm	90.8165 %	100.4389 %	93.0142 %	92.6341 %	100.6702 %	95.1440 %
Concentration per Run 2	0.0005 ppm	92.6868 %	101.2520 %	93.2088 %	94.6842 %	101.7232 %	94.8967 %
Concentration per Run 3	0.0004 ppm	92.7772 %	101.3326 %	93.0570 %	93.6643 %	102.2326 %	94.8599 %
Recovery Percentage 1	7.602 %						
Concentration RSD	36.8 %	1.2 %	0.5 %	0.1 %	1.1 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976101-1 WG1976101
Analysis started at: 9/26/2024 8:52:13 PM
Rack 3
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0235 ppm
Concentration per Run 1	0.0003 ppm	-0.0056 ppm	0.0008 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0211 ppm
Concentration per Run 2	-0.0001 ppm	-0.0040 ppm	-0.0003 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0242 ppm
Concentration per Run 3	-0.0004 ppm	0.0039 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0251 ppm
Concentration RSD	697.8 %	264.9 %	12,676.1 %	797.3 %	189.8 %	1,138.2 %	8.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0006 ppm	0.0101 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0006 ppm	-0.0002 ppm	0.0197 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0015 ppm	0.0092 ppm	0.0005 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0013 ppm	0.0005 ppm
Concentration RSD	174.4 %	152.0 %	122.1 %	110.5 %	130.5 %	91.4 %	264.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0216 ppm	-0.0001 ppm	-0.0005 ppm	-0.0017 ppm
Concentration per Run 1	0.0005 ppm	-0.0001 ppm	-0.0001 ppm	0.0218 ppm	0.0007 ppm	-0.0009 ppm	-0.0018 ppm
Concentration per Run 2	0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0244 ppm	-0.0007 ppm	-0.0008 ppm	-0.0015 ppm
Concentration per Run 3	0.0021 ppm	-0.0002 ppm	-0.0002 ppm	0.0186 ppm	-0.0002 ppm	0.0003 ppm	-0.0019 ppm
Concentration RSD	102.2 %	725.1 %	418.3 %	13.5 %	1,357.4 %	143.9 %	10.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	-0.0007 ppm	0.0002 ppm	-0.0001 ppm	0.0004 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0006 ppm	-0.0006 ppm	-0.0007 ppm	-0.0001 ppm	0.0003 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 2	-0.0003 ppm	-0.0013 ppm	0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0017 ppm	-0.0001 ppm
Concentration per Run 3	0.0012 ppm	-0.0003 ppm	0.0011 ppm	0.0000 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm
Concentration RSD	156.0 %	67.9 %	487.3 %	57.4 %	66.1 %	160.2 %	165.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	97.2538 %	101.1370 %	97.0890 %	102.6418 %	103.6945 %	100.8947 %
Concentration per Run 1	0.0001 ppm	96.0842 %	100.9739 %	97.2947 %	102.4375 %	103.6854 %	101.7134 %
Concentration per Run 2	0.0004 ppm	97.0645 %	101.3552 %	96.8171 %	102.4818 %	103.8474 %	100.6695 %
Concentration per Run 3	0.0002 ppm	98.6128 %	101.0819 %	97.1551 %	103.0062 %	103.5507 %	100.3014 %
Concentration RSD	72.9 %	1.3 %	0.2 %	0.3 %	0.3 %	0.1 %	0.7 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976101-2 WG1976101
Analysis started at: 9/26/2024 8:56:32 PM
Rack 3
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0530 ppm	2.0539 ppm	0.1197 ppm	1.0031 ppm	2.0700 ppm	0.0527 ppm	10.3111 ppm
Concentration per Run 1	0.0537 ppm	2.0532 ppm	0.1210 ppm	1.0106 ppm	2.0805 ppm	0.0528 ppm	10.3596 ppm
Concentration per Run 2	0.0529 ppm	2.0572 ppm	0.1199 ppm	1.0028 ppm	2.0599 ppm	0.0527 ppm	10.2750 ppm
Concentration per Run 3	0.0525 ppm	2.0514 ppm	0.1183 ppm	0.9960 ppm	2.0696 ppm	0.0527 ppm	10.2989 ppm
Concentration RSD	1.2 %	0.1 %	1.2 %	0.7 %	0.5 %	0.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0556 ppm	0.5219 ppm	0.2077 ppm	0.2668 ppm	1.0576 ppm	10.7173 ppm	0.0003 ppm
Concentration per Run 1	0.0561 ppm	0.5273 ppm	0.2100 ppm	0.2691 ppm	1.0606 ppm	10.7860 ppm	0.0005 ppm
Concentration per Run 2	0.0557 ppm	0.5217 ppm	0.2079 ppm	0.2674 ppm	1.0545 ppm	10.6874 ppm	0.0011 ppm
Concentration per Run 3	0.0550 ppm	0.5169 ppm	0.2053 ppm	0.2639 ppm	1.0577 ppm	10.6784 ppm	-0.0008 ppm
Concentration RSD	1.0 %	1.0 %	1.1 %	1.0 %	0.3 %	0.6 %	375.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.3237 ppm	0.5246 ppm	0.9572 ppm	10.5290 ppm	0.5268 ppm	0.5527 ppm	0.4599 ppm
Concentration per Run 1	10.4618 ppm	0.5265 ppm	0.9605 ppm	10.5958 ppm	0.5344 ppm	0.5521 ppm	0.4612 ppm
Concentration per Run 2	10.3051 ppm	0.5235 ppm	0.9592 ppm	10.4674 ppm	0.5267 ppm	0.5518 ppm	0.4625 ppm
Concentration per Run 3	10.2041 ppm	0.5237 ppm	0.9518 ppm	10.5238 ppm	0.5193 ppm	0.5542 ppm	0.4561 ppm
Concentration RSD	1.3 %	0.3 %	0.5 %	0.6 %	1.4 %	0.2 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1248 ppm	0.8184 ppm	0.9718 ppm	0.9919 ppm	1.0375 ppm	0.1220 ppm	0.5317 ppm
Concentration per Run 1	0.1246 ppm	0.8274 ppm	0.9853 ppm	0.9899 ppm	1.0481 ppm	0.1225 ppm	0.5378 ppm
Concentration per Run 2	0.1249 ppm	0.8146 ppm	0.9705 ppm	0.9889 ppm	1.0363 ppm	0.1208 ppm	0.5303 ppm
Concentration per Run 3	0.1249 ppm	0.8132 ppm	0.9596 ppm	0.9967 ppm	1.0280 ppm	0.1227 ppm	0.5270 ppm
Concentration RSD	0.1 %	1.0 %	1.3 %	0.4 %	1.0 %	0.8 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5250 ppm	93.0470 %	104.1407 %	91.5306 %	92.3914 %	103.2301 %	93.8859 %
Concentration per Run 1	0.5312 ppm	91.9170 %	103.2097 %	91.4023 %	91.9526 %	102.5601 %	93.9686 %
Concentration per Run 2	0.5264 ppm	93.2728 %	104.5291 %	91.7558 %	92.5327 %	103.5672 %	93.7485 %
Concentration per Run 3	0.5172 ppm	93.9512 %	104.6835 %	91.4336 %	92.6889 %	103.5630 %	93.9405 %
Concentration RSD	1.4 %	1.1 %	0.8 %	0.2 %	0.4 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453389-03 WG1976101
Analysis started at: 9/26/2024 9:00:31 PM
Rack 3
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	1.5336 ppm	0.0031 ppm	0.1235 ppm	0.0126 ppm	0.0002 ppm	374.0012 ppm
Concentration per Run 1	-0.0007 ppm	1.5551 ppm	0.0020 ppm	0.1280 ppm	0.0126 ppm	0.0002 ppm	375.6475 ppm
Concentration per Run 2	-0.0004 ppm	1.5310 ppm	0.0037 ppm	0.1220 ppm	0.0125 ppm	0.0002 ppm	373.2061 ppm
Concentration per Run 3	-0.0004 ppm	1.5149 ppm	0.0035 ppm	0.1207 ppm	0.0125 ppm	0.0002 ppm	373.1499 ppm
Concentration RSD	39.6 %	1.3 %	30.3 %	3.1 %	0.5 %	4.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0018 ppm	0.0022 ppm	0.0027 ppm	0.0042 ppm	3.8165 ppm	3.7397 ppm	0.0707 ppm
Concentration per Run 1	-0.0019 ppm	0.0022 ppm	0.0028 ppm	0.0044 ppm	3.8393 ppm	3.7717 ppm	0.0713 ppm
Concentration per Run 2	-0.0017 ppm	0.0019 ppm	0.0025 ppm	0.0040 ppm	3.8113 ppm	3.7163 ppm	0.0703 ppm
Concentration per Run 3	-0.0018 ppm	0.0024 ppm	0.0029 ppm	0.0041 ppm	3.7991 ppm	3.7310 ppm	0.0705 ppm
Concentration RSD	6.2 %	12.1 %	6.6 %	4.9 %	0.5 %	0.8 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	427.5826 ppm	0.2709 ppm	0.0051 ppm	295.0713 ppm	0.0054 ppm	0.0012 ppm	0.0003 ppm
Concentration per Run 1	436.3712 ppm	0.2722 ppm	0.0048 ppm	295.3689 ppm	0.0059 ppm	0.0021 ppm	0.0003 ppm
Concentration per Run 2	426.5677 ppm	0.2704 ppm	0.0049 ppm	295.9434 ppm	0.0049 ppm	0.0007 ppm	-0.0005 ppm
Concentration per Run 3	419.8091 ppm	0.2701 ppm	0.0055 ppm	293.9016 ppm	0.0053 ppm	0.0008 ppm	0.0011 ppm
Concentration RSD	1.9 %	0.4 %	7.1 %	0.4 %	9.8 %	62.8 %	270.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	9.5640 ppm	0.0011 ppm	2.8909 ppm	0.0230 ppm	-0.0011 ppm	0.0037 ppm
Concentration per Run 1	0.0002 ppm	9.7563 ppm	0.0009 ppm	2.9046 ppm	0.0240 ppm	-0.0003 ppm	0.0038 ppm
Concentration per Run 2	0.0029 ppm	9.5275 ppm	0.0017 ppm	2.8901 ppm	0.0224 ppm	-0.0024 ppm	0.0037 ppm
Concentration per Run 3	0.0003 ppm	9.4083 ppm	0.0006 ppm	2.8780 ppm	0.0227 ppm	-0.0007 ppm	0.0036 ppm
Concentration RSD	134.3 %	1.8 %	55.2 %	0.5 %	3.6 %	101.0 %	2.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0073 ppm	84.1964 %	103.7272 %	78.4574 %	83.4367 %	102.6328 %	83.4266 %
Concentration per Run 1	0.0073 ppm	82.7061 %	103.0187 %	78.4053 %	82.9459 %	102.2680 %	83.3529 %
Concentration per Run 2	0.0073 ppm	84.2963 %	104.1034 %	78.7218 %	83.2355 %	102.6393 %	83.8540 %
Concentration per Run 3	0.0073 ppm	85.5867 %	104.0596 %	78.2451 %	84.1287 %	102.9911 %	83.0729 %
Concentration RSD	0.4 %	1.7 %	0.6 %	0.3 %	0.7 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453389-04 WG1976101
Analysis started at: 9/26/2024 9:04:30 PM
Rack 3
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0578 ppm	0.0063 ppm	0.0423 ppm	0.0341 ppm	0.0001 ppm	136.1107 ppm
Concentration per Run 1	-0.0001 ppm	0.0603 ppm	0.0049 ppm	0.0435 ppm	0.0340 ppm	0.0001 ppm	136.1874 ppm
Concentration per Run 2	-0.0003 ppm	0.0597 ppm	0.0071 ppm	0.0425 ppm	0.0343 ppm	0.0001 ppm	135.9997 ppm
Concentration per Run 3	-0.0003 ppm	0.0534 ppm	0.0067 ppm	0.0408 ppm	0.0339 ppm	0.0001 ppm	136.1449 ppm
Concentration RSD	56.0 %	6.6 %	18.9 %	3.3 %	0.6 %	12.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0006 ppm	-0.0002 ppm	0.0001 ppm	0.0019 ppm	5.3180 ppm	2.1362 ppm	0.0126 ppm
Concentration per Run 1	-0.0007 ppm	-0.0003 ppm	0.0003 ppm	0.0018 ppm	5.3093 ppm	2.1567 ppm	0.0128 ppm
Concentration per Run 2	-0.0006 ppm	-0.0003 ppm	0.0001 ppm	0.0018 ppm	5.3080 ppm	2.1082 ppm	0.0122 ppm
Concentration per Run 3	-0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0021 ppm	5.3367 ppm	2.1437 ppm	0.0129 ppm
Concentration RSD	9.4 %	33.5 %	101.8 %	10.1 %	0.3 %	1.2 %	3.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.6041 ppm	0.0541 ppm	0.0011 ppm	37.2152 ppm	0.0003 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 1	23.1187 ppm	0.0544 ppm	0.0013 ppm	37.3222 ppm	0.0003 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 2	22.5077 ppm	0.0538 ppm	0.0008 ppm	37.1722 ppm	0.0003 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 3	22.1858 ppm	0.0542 ppm	0.0012 ppm	37.1511 ppm	0.0002 ppm	-0.0003 ppm	-0.0035 ppm
Concentration RSD	2.1 %	0.6 %	24.9 %	0.3 %	17.6 %	6,751.2 %	157.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	5.5977 ppm	-0.0005 ppm	0.3751 ppm	0.0003 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0021 ppm	5.7122 ppm	-0.0006 ppm	0.3779 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 2	0.0016 ppm	5.5925 ppm	-0.0004 ppm	0.3736 ppm	0.0001 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 3	0.0029 ppm	5.4883 ppm	-0.0005 ppm	0.3738 ppm	0.0005 ppm	0.0009 ppm	-0.0001 ppm
Concentration RSD	29.9 %	2.0 %	27.1 %	0.6 %	98.9 %	76.7 %	13,666.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	89.2421 %	103.8232 %	88.0081 %	91.2634 %	103.9730 %	91.6473 %
Concentration per Run 1	0.0009 ppm	87.4279 %	104.0004 %	87.7520 %	90.6798 %	104.3689 %	91.9562 %
Concentration per Run 2	0.0009 ppm	89.6429 %	103.7214 %	88.4073 %	91.2836 %	104.1079 %	91.7798 %
Concentration per Run 3	0.0014 ppm	90.6556 %	103.7479 %	87.8648 %	91.8267 %	103.4422 %	91.2060 %
Concentration RSD	26.0 %	1.8 %	0.1 %	0.4 %	0.6 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453389-05 WG1976101
Analysis started at: 9/26/2024 9:11:11 PM
Rack 3
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.1984 ppm	0.0004 ppm	0.0152 ppm	0.0832 ppm	0.0000 ppm	170.3039 ppm
Concentration per Run 1	-0.0002 ppm	0.1974 ppm	-0.0006 ppm	0.0153 ppm	0.0833 ppm	0.0001 ppm	171.2211 ppm
Concentration per Run 2	-0.0005 ppm	0.1959 ppm	0.0013 ppm	0.0149 ppm	0.0831 ppm	0.0000 ppm	170.1928 ppm
Concentration per Run 3	-0.0001 ppm	0.2020 ppm	0.0005 ppm	0.0154 ppm	0.0833 ppm	0.0000 ppm	169.4978 ppm
Concentration RSD	66.8 %	1.6 %	219.2 %	1.8 %	0.2 %	58.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0001 ppm	0.0003 ppm	0.0008 ppm	0.3255 ppm	1.2383 ppm	0.0206 ppm
Concentration per Run 1	-0.0007 ppm	0.0003 ppm	0.0002 ppm	0.0009 ppm	0.3278 ppm	1.2563 ppm	0.0225 ppm
Concentration per Run 2	-0.0006 ppm	-0.0003 ppm	0.0005 ppm	0.0007 ppm	0.3242 ppm	1.2312 ppm	0.0196 ppm
Concentration per Run 3	-0.0007 ppm	0.0003 ppm	0.0002 ppm	0.0010 ppm	0.3244 ppm	1.2275 ppm	0.0196 ppm
Concentration RSD	6.8 %	343.2 %	58.7 %	18.7 %	0.6 %	1.3 %	8.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	37.0960 ppm	0.1816 ppm	0.0004 ppm	16.4845 ppm	0.0014 ppm	-0.0004 ppm	-0.0014 ppm
Concentration per Run 1	37.5570 ppm	0.1832 ppm	0.0008 ppm	16.5120 ppm	0.0018 ppm	-0.0001 ppm	-0.0018 ppm
Concentration per Run 2	37.0233 ppm	0.1813 ppm	0.0000 ppm	16.3929 ppm	0.0016 ppm	-0.0002 ppm	-0.0018 ppm
Concentration per Run 3	36.7077 ppm	0.1804 ppm	0.0005 ppm	16.5484 ppm	0.0008 ppm	-0.0008 ppm	-0.0007 ppm
Concentration RSD	1.2 %	0.8 %	96.4 %	0.5 %	36.4 %	101.1 %	45.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	8.1594 ppm	-0.0010 ppm	0.5124 ppm	0.0033 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	8.2664 ppm	-0.0018 ppm	0.5142 ppm	0.0033 ppm	-0.0008 ppm	0.0003 ppm
Concentration per Run 2	0.0027 ppm	8.1377 ppm	-0.0010 ppm	0.5106 ppm	0.0030 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 3	0.0039 ppm	8.0742 ppm	-0.0002 ppm	0.5123 ppm	0.0036 ppm	0.0006 ppm	0.0002 ppm
Concentration RSD	91.1 %	1.2 %	79.5 %	0.4 %	9.6 %	10,756.6 %	19.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0048 ppm	95.8727 %	103.5464 %	89.9069 %	97.9165 %	103.8682 %	95.1001 %
Concentration per Run 1	0.0049 ppm	94.9774 %	102.9082 %	89.9943 %	98.0126 %	103.7272 %	95.5861 %
Concentration per Run 2	0.0048 ppm	96.2546 %	102.9335 %	89.6225 %	98.3089 %	102.9792 %	94.5675 %
Concentration per Run 3	0.0047 ppm	96.3861 %	104.7975 %	90.1040 %	97.4279 %	104.8982 %	95.1467 %
Concentration RSD	1.4 %	0.8 %	1.0 %	0.3 %	0.5 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

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LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453389-02 WG1976101
Analysis started at: 9/26/2024 9:15:32 PM
Rack 3
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	1.3652 ppm	0.0196 ppm	0.1448 ppm	0.0152 ppm	0.0001 ppm	407.3471 ppm
Concentration per Run 1	0.0000 ppm	1.3751 ppm	0.0209 ppm	0.1453 ppm	0.0153 ppm	0.0001 ppm	408.9647 ppm
Concentration per Run 2	0.0001 ppm	1.3700 ppm	0.0191 ppm	0.1448 ppm	0.0151 ppm	0.0001 ppm	409.2727 ppm
Concentration per Run 3	-0.0004 ppm	1.3505 ppm	0.0187 ppm	0.1444 ppm	0.0152 ppm	0.0001 ppm	403.8040 ppm
Concentration RSD	270.5 %	1.0 %	6.0 %	0.3 %	0.5 %	13.6 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0020 ppm	0.0042 ppm	0.0016 ppm	0.0040 ppm	8.4027 ppm	3.7957 ppm	0.0992 ppm
Concentration per Run 1	-0.0021 ppm	0.0046 ppm	0.0017 ppm	0.0042 ppm	8.4391 ppm	3.8272 ppm	0.1017 ppm
Concentration per Run 2	-0.0020 ppm	0.0042 ppm	0.0014 ppm	0.0039 ppm	8.4345 ppm	3.8062 ppm	0.0986 ppm
Concentration per Run 3	-0.0019 ppm	0.0037 ppm	0.0018 ppm	0.0039 ppm	8.3345 ppm	3.7535 ppm	0.0973 ppm
Concentration RSD	3.3 %	10.0 %	11.6 %	5.1 %	0.7 %	1.0 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	176.5446 ppm	1.0056 ppm	0.0010 ppm	331.9952 ppm	0.0075 ppm	0.0015 ppm	0.0003 ppm
Concentration per Run 1	179.7287 ppm	1.0073 ppm	0.0007 ppm	333.1368 ppm	0.0080 ppm	0.0020 ppm	0.0006 ppm
Concentration per Run 2	175.7067 ppm	1.0113 ppm	0.0013 ppm	332.4655 ppm	0.0076 ppm	0.0013 ppm	0.0004 ppm
Concentration per Run 3	174.1983 ppm	0.9981 ppm	0.0010 ppm	330.3832 ppm	0.0070 ppm	0.0011 ppm	-0.0002 ppm
Concentration RSD	1.6 %	0.7 %	30.3 %	0.4 %	7.1 %	30.9 %	148.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	12.2550 ppm	-0.0011 ppm	3.7336 ppm	0.0203 ppm	-0.0005 ppm	0.0023 ppm
Concentration per Run 1	-0.0015 ppm	12.4620 ppm	-0.0013 ppm	3.7514 ppm	0.0208 ppm	-0.0007 ppm	0.0023 ppm
Concentration per Run 2	0.0031 ppm	12.2221 ppm	-0.0010 ppm	3.7392 ppm	0.0197 ppm	-0.0004 ppm	0.0024 ppm
Concentration per Run 3	0.0018 ppm	12.0808 ppm	-0.0009 ppm	3.7101 ppm	0.0203 ppm	-0.0003 ppm	0.0023 ppm
Concentration RSD	217.3 %	1.6 %	19.3 %	0.6 %	2.7 %	48.7 %	2.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0119 ppm	87.5386 %	105.0361 %	81.3171 %	86.6686 %	104.3708 %	86.4708 %
Concentration per Run 1	0.0123 ppm	85.9935 %	105.1539 %	80.6847 %	86.0316 %	104.6548 %	86.2702 %
Concentration per Run 2	0.0118 ppm	87.9836 %	103.5673 %	81.6817 %	86.8823 %	102.9682 %	86.7598 %
Concentration per Run 3	0.0116 ppm	88.6387 %	106.3869 %	81.5850 %	87.0918 %	105.4895 %	86.3825 %
Concentration RSD	2.9 %	1.6 %	1.3 %	0.7 %	0.6 %	1.2 %	0.3 %

iCAP Pro Trace 8 Data report

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LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976101-3 WG1976101
Analysis started at: 9/26/2024 9:19:33 PM
Rack 3
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0547 ppm	3.4246 ppm	0.1506 ppm	1.1323 ppm	2.0640 ppm	0.0503 ppm	416.3349 ppm
Concentration per Run 1	0.0555 ppm	3.4419 ppm	0.1524 ppm	1.1477 ppm	2.0759 ppm	0.0505 ppm	416.1171 ppm
Concentration per Run 2	0.0540 ppm	3.4351 ppm	0.1492 ppm	1.1258 ppm	2.0654 ppm	0.0504 ppm	418.0759 ppm
Concentration per Run 3	0.0545 ppm	3.3969 ppm	0.1502 ppm	1.1234 ppm	2.0506 ppm	0.0501 ppm	414.8118 ppm
Concentration RSD	1.4 %	0.7 %	1.1 %	1.2 %	0.6 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0471 ppm	0.4784 ppm	0.1941 ppm	0.2743 ppm	9.4204 ppm	14.8989 ppm	0.1016 ppm
Concentration per Run 1	0.0482 ppm	0.4850 ppm	0.1971 ppm	0.2755 ppm	9.4126 ppm	14.9405 ppm	0.1039 ppm
Concentration per Run 2	0.0465 ppm	0.4750 ppm	0.1931 ppm	0.2741 ppm	9.4336 ppm	14.9135 ppm	0.1015 ppm
Concentration per Run 3	0.0466 ppm	0.4751 ppm	0.1920 ppm	0.2734 ppm	9.4151 ppm	14.8427 ppm	0.0995 ppm
Concentration RSD	2.1 %	1.2 %	1.4 %	0.4 %	0.1 %	0.3 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	184.1112 ppm	1.4931 ppm	0.8553 ppm	342.7443 ppm	0.4854 ppm	0.5347 ppm	0.4858 ppm
Concentration per Run 1	187.6580 ppm	1.4938 ppm	0.8646 ppm	342.6907 ppm	0.4927 ppm	0.5363 ppm	0.4888 ppm
Concentration per Run 2	182.6716 ppm	1.4988 ppm	0.8477 ppm	343.8275 ppm	0.4823 ppm	0.5322 ppm	0.4835 ppm
Concentration per Run 3	182.0039 ppm	1.4866 ppm	0.8536 ppm	341.7146 ppm	0.4814 ppm	0.5354 ppm	0.4851 ppm
Concentration RSD	1.7 %	0.4 %	1.0 %	0.3 %	1.3 %	0.4 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1417 ppm	13.1477 ppm	0.8564 ppm	4.6960 ppm	1.0390 ppm	0.1172 ppm	0.5151 ppm
Concentration per Run 1	0.1426 ppm	13.3442 ppm	0.8670 ppm	4.7065 ppm	1.0493 ppm	0.1163 ppm	0.5208 ppm
Concentration per Run 2	0.1396 ppm	13.0603 ppm	0.8499 ppm	4.6976 ppm	1.0363 ppm	0.1170 ppm	0.5134 ppm
Concentration per Run 3	0.1429 ppm	13.0385 ppm	0.8521 ppm	4.6837 ppm	1.0315 ppm	0.1182 ppm	0.5111 ppm
Concentration RSD	1.3 %	1.3 %	1.1 %	0.2 %	0.9 %	0.8 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4742 ppm	89.1679 %	105.8231 %	80.4298 %	87.4111 %	104.8946 %	86.5885 %
Concentration per Run 1	0.4843 ppm	87.7740 %	106.1571 %	80.2530 %	86.6884 %	105.1222 %	86.4979 %
Concentration per Run 2	0.4691 ppm	89.6190 %	104.8972 %	80.8559 %	87.7422 %	104.1238 %	86.8048 %
Concentration per Run 3	0.4693 ppm	90.1109 %	106.4150 %	80.1804 %	87.8027 %	105.4379 %	86.4627 %
Concentration RSD	1.8 %	1.4 %	0.8 %	0.5 %	0.7 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

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LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976101-4 WG1976101
Analysis started at: 9/26/2024 9:23:32 PM
Rack 3
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	1.3607 ppm	0.0204 ppm	0.1459 ppm	0.0157 ppm	0.0001 ppm	407.9833 ppm
Concentration per Run 1	-0.0003 ppm	1.3597 ppm	0.0194 ppm	0.1507 ppm	0.0156 ppm	0.0001 ppm	408.5390 ppm
Concentration per Run 2	-0.0002 ppm	1.3607 ppm	0.0206 ppm	0.1433 ppm	0.0157 ppm	0.0001 ppm	406.7516 ppm
Concentration per Run 3	0.0000 ppm	1.3618 ppm	0.0212 ppm	0.1437 ppm	0.0157 ppm	0.0002 ppm	408.6591 ppm
Concentration RSD	70.3 %	0.1 %	4.6 %	2.9 %	0.1 %	18.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0020 ppm	0.0042 ppm	0.0017 ppm	0.0041 ppm	8.4341 ppm	3.8260 ppm	0.1004 ppm
Concentration per Run 1	-0.0020 ppm	0.0041 ppm	0.0017 ppm	0.0041 ppm	8.4138 ppm	3.8401 ppm	0.1035 ppm
Concentration per Run 2	-0.0019 ppm	0.0040 ppm	0.0015 ppm	0.0041 ppm	8.4260 ppm	3.8164 ppm	0.0980 ppm
Concentration per Run 3	-0.0019 ppm	0.0044 ppm	0.0019 ppm	0.0041 ppm	8.4625 ppm	3.8214 ppm	0.0997 ppm
Concentration RSD	3.1 %	5.7 %	9.2 %	0.7 %	0.3 %	0.3 %	2.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	177.6305 ppm	1.0056 ppm	0.0049 ppm	333.3498 ppm	0.0075 ppm	0.0011 ppm	0.0008 ppm
Concentration per Run 1	180.8315 ppm	0.9995 ppm	0.0048 ppm	333.1941 ppm	0.0076 ppm	0.0021 ppm	0.0018 ppm
Concentration per Run 2	177.6093 ppm	1.0043 ppm	0.0052 ppm	333.3877 ppm	0.0080 ppm	0.0012 ppm	-0.0012 ppm
Concentration per Run 3	174.4507 ppm	1.0129 ppm	0.0047 ppm	333.4676 ppm	0.0069 ppm	0.0000 ppm	0.0017 ppm
Concentration RSD	1.8 %	0.7 %	6.2 %	0.0 %	7.1 %	95.0 %	223.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	12.3413 ppm	0.0022 ppm	3.7356 ppm	0.0211 ppm	0.0004 ppm	0.0022 ppm
Concentration per Run 1	-0.0003 ppm	12.5192 ppm	0.0021 ppm	3.7274 ppm	0.0208 ppm	0.0006 ppm	0.0022 ppm
Concentration per Run 2	0.0012 ppm	12.3007 ppm	0.0024 ppm	3.7244 ppm	0.0206 ppm	0.0008 ppm	0.0022 ppm
Concentration per Run 3	0.0013 ppm	12.2040 ppm	0.0021 ppm	3.7549 ppm	0.0219 ppm	-0.0002 ppm	0.0022 ppm
Concentration RSD	124.0 %	1.3 %	8.2 %	0.5 %	3.2 %	132.2 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0119 ppm	87.7992 %	106.3329 %	81.0974 %	86.9234 %	105.5363 %	86.5240 %
Concentration per Run 1	0.0118 ppm	86.3843 %	105.4036 %	81.0229 %	86.2881 %	104.9006 %	86.7963 %
Concentration per Run 2	0.0122 ppm	87.8617 %	107.4905 %	81.1230 %	86.7593 %	106.3892 %	86.3016 %
Concentration per Run 3	0.0118 ppm	89.1516 %	106.1046 %	81.1463 %	87.7230 %	105.3193 %	86.4740 %
Concentration RSD	1.7 %	1.6 %	1.0 %	0.1 %	0.8 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

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LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976101-5 WG1976101
Analysis started at: 9/26/2024 9:27:32 PM
Rack 3
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0517 ppm	3.2473 ppm	0.1436 ppm	1.0849 ppm	1.9842 ppm	0.0479 ppm	403.0408 ppm
Concentration per Run 1	0.0524 ppm	3.2575 ppm	0.1443 ppm	1.0999 ppm	1.9901 ppm	0.0480 ppm	403.4709 ppm
Concentration per Run 2	0.0512 ppm	3.2489 ppm	0.1423 ppm	1.0839 ppm	1.9907 ppm	0.0478 ppm	402.3443 ppm
Concentration per Run 3	0.0515 ppm	3.2354 ppm	0.1443 ppm	1.0710 ppm	1.9719 ppm	0.0480 ppm	403.3072 ppm
Concentration RSD	1.2 %	0.3 %	0.8 %	1.3 %	0.5 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0439 ppm	0.4536 ppm	0.1837 ppm	0.2600 ppm	9.1144 ppm	14.3043 ppm	0.0977 ppm
Concentration per Run 1	0.0448 ppm	0.4620 ppm	0.1873 ppm	0.2624 ppm	9.1511 ppm	14.3907 ppm	0.0986 ppm
Concentration per Run 2	0.0437 ppm	0.4513 ppm	0.1829 ppm	0.2600 ppm	9.1141 ppm	14.2875 ppm	0.0965 ppm
Concentration per Run 3	0.0432 ppm	0.4476 ppm	0.1811 ppm	0.2577 ppm	9.0779 ppm	14.2346 ppm	0.0980 ppm
Concentration RSD	1.9 %	1.7 %	1.7 %	0.9 %	0.4 %	0.6 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	177.9211 ppm	1.4371 ppm	0.8222 ppm	330.9127 ppm	0.4586 ppm	0.5046 ppm	0.3992 ppm
Concentration per Run 1	181.3520 ppm	1.4380 ppm	0.8314 ppm	330.8510 ppm	0.4668 ppm	0.5072 ppm	0.4001 ppm
Concentration per Run 2	176.7299 ppm	1.4391 ppm	0.8185 ppm	331.4609 ppm	0.4560 ppm	0.5042 ppm	0.3981 ppm
Concentration per Run 3	175.6814 ppm	1.4341 ppm	0.8167 ppm	330.4263 ppm	0.4530 ppm	0.5025 ppm	0.3993 ppm
Concentration RSD	1.7 %	0.2 %	1.0 %	0.2 %	1.6 %	0.5 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1334 ppm	12.2517 ppm	0.8446 ppm	4.5550 ppm	0.9985 ppm	0.1126 ppm	0.4882 ppm
Concentration per Run 1	0.1346 ppm	12.4322 ppm	0.8592 ppm	4.5642 ppm	1.0126 ppm	0.1130 ppm	0.4945 ppm
Concentration per Run 2	0.1352 ppm	12.1920 ppm	0.8403 ppm	4.5508 ppm	0.9935 ppm	0.1132 ppm	0.4865 ppm
Concentration per Run 3	0.1305 ppm	12.1310 ppm	0.8343 ppm	4.5502 ppm	0.9893 ppm	0.1115 ppm	0.4835 ppm
Concentration RSD	1.9 %	1.3 %	1.5 %	0.2 %	1.2 %	0.8 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4479 ppm	89.8535 %	106.9966 %	81.1083 %	88.0429 %	105.8020 %	87.1027 %
Concentration per Run 1	0.4571 ppm	88.4367 %	107.1156 %	80.5805 %	87.2462 %	106.2338 %	86.6595 %
Concentration per Run 2	0.4444 ppm	90.4967 %	107.7278 %	81.0904 %	88.7204 %	106.3209 %	87.3892 %
Concentration per Run 3	0.4422 ppm	90.6271 %	106.1464 %	81.6539 %	88.1620 %	104.8513 %	87.2595 %
Concentration RSD	1.8 %	1.4 %	0.7 %	0.7 %	0.8 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1976101-6d5 WG1976101
Analysis started at: 9/26/2024 9:31:32 PM
Rack 3
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.2686 ppm	0.0045 ppm	0.0303 ppm	0.0031 ppm	0.0000 ppm	84.5342 ppm
Concentration per Run 1	0.0000 ppm	0.2669 ppm	0.0040 ppm	0.0305 ppm	0.0030 ppm	0.0000 ppm	84.2250 ppm
Concentration per Run 2	-0.0003 ppm	0.2701 ppm	0.0053 ppm	0.0294 ppm	0.0031 ppm	0.0000 ppm	84.8906 ppm
Concentration per Run 3	0.0005 ppm	0.2688 ppm	0.0043 ppm	0.0310 ppm	0.0031 ppm	0.0001 ppm	84.4870 ppm
Concentration RSD	537.4 %	0.6 %	15.0 %	2.8 %	1.3 %	32.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0006 ppm	0.0004 ppm	0.0015 ppm	1.6975 ppm	0.7964 ppm	0.0209 ppm
Concentration per Run 1	-0.0004 ppm	0.0008 ppm	0.0002 ppm	0.0017 ppm	1.6907 ppm	0.8062 ppm	0.0213 ppm
Concentration per Run 2	-0.0004 ppm	0.0005 ppm	0.0007 ppm	0.0014 ppm	1.6993 ppm	0.7842 ppm	0.0201 ppm
Concentration per Run 3	-0.0004 ppm	0.0004 ppm	0.0004 ppm	0.0015 ppm	1.7026 ppm	0.7987 ppm	0.0212 ppm
Concentration RSD	4.4 %	34.1 %	51.3 %	9.5 %	0.4 %	1.4 %	3.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	35.1325 ppm	0.2027 ppm	0.0068 ppm	67.9678 ppm	0.0020 ppm	0.0001 ppm	0.0073 ppm
Concentration per Run 1	35.5636 ppm	0.2017 ppm	0.0064 ppm	67.7777 ppm	0.0023 ppm	0.0003 ppm	0.0071 ppm
Concentration per Run 2	34.9227 ppm	0.2036 ppm	0.0067 ppm	68.2126 ppm	0.0016 ppm	-0.0001 ppm	0.0076 ppm
Concentration per Run 3	34.9113 ppm	0.2026 ppm	0.0072 ppm	67.9129 ppm	0.0021 ppm	0.0001 ppm	0.0071 ppm
Concentration RSD	1.1 %	0.5 %	6.1 %	0.3 %	17.9 %	235.2 %	3.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	2.2874 ppm	0.0097 ppm	0.7389 ppm	0.0042 ppm	-0.0002 ppm	0.0005 ppm
Concentration per Run 1	-0.0010 ppm	2.3111 ppm	0.0096 ppm	0.7378 ppm	0.0043 ppm	0.0002 ppm	0.0006 ppm
Concentration per Run 2	0.0023 ppm	2.2805 ppm	0.0099 ppm	0.7418 ppm	0.0042 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 3	-0.0005 ppm	2.2706 ppm	0.0095 ppm	0.7370 ppm	0.0041 ppm	-0.0005 ppm	0.0005 ppm
Concentration RSD	672.1 %	0.9 %	2.2 %	0.3 %	1.9 %	177.3 %	26.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0029 ppm	93.0985 %	105.8721 %	90.4612 %	91.0664 %	104.9574 %	92.3417 %
Concentration per Run 1	0.0030 ppm	91.8277 %	106.5465 %	89.8786 %	90.2141 %	105.4541 %	92.2020 %
Concentration per Run 2	0.0029 ppm	93.8675 %	104.8500 %	90.4115 %	91.7095 %	103.9290 %	92.0318 %
Concentration per Run 3	0.0029 ppm	93.6004 %	106.2197 %	91.0935 %	91.2755 %	105.4892 %	92.7914 %
Concentration RSD	1.9 %	1.2 %	0.9 %	0.7 %	0.8 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 9:35:32 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4957 ppm	0.4888 ppm	0.4738 ppm	0.4844 ppm	0.5080 ppm	0.5115 ppm	0.4950 ppm
Concentration per Run 1	0.4967 ppm	0.4894 ppm	0.4761 ppm	0.4859 ppm	0.5071 ppm	0.5091 ppm	0.4949 ppm
Concentration per Run 2	0.4956 ppm	0.4882 ppm	0.4757 ppm	0.4817 ppm	0.5091 ppm	0.5122 ppm	0.4934 ppm
Concentration per Run 3	0.4948 ppm	0.4889 ppm	0.4696 ppm	0.4855 ppm	0.5079 ppm	0.5131 ppm	0.4967 ppm
Recovery Percentage 1	99.139 %	97.766 %	94.760 %	96.873 %	101.609 %	102.294 %	99.000 %
Concentration RSD	0.2 %	0.1 %	0.8 %	0.5 %	0.2 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4876 ppm	0.5000 ppm	0.4866 ppm	0.4858 ppm	0.5135 ppm	5.2826 ppm	0.4968 ppm
Concentration per Run 1	0.4898 ppm	0.5007 ppm	0.4870 ppm	0.4865 ppm	0.5121 ppm	5.3242 ppm	0.5019 ppm
Concentration per Run 2	0.4861 ppm	0.4991 ppm	0.4860 ppm	0.4858 ppm	0.5135 ppm	5.2608 ppm	0.4936 ppm
Concentration per Run 3	0.4870 ppm	0.5001 ppm	0.4868 ppm	0.4851 ppm	0.5150 ppm	5.2629 ppm	0.4948 ppm
Recovery Percentage 1	97.522 %	99.993 %	97.323 %	97.161 %	102.707 %	105.653 %	99.356 %
Concentration RSD	0.4 %	0.2 %	0.1 %	0.1 %	0.3 %	0.7 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4788 ppm	0.4962 ppm	0.4896 ppm	10.1314 ppm	0.4996 ppm	0.4920 ppm	0.4914 ppm
Concentration per Run 1	0.4793 ppm	0.4956 ppm	0.4885 ppm	10.1096 ppm	0.5005 ppm	0.4938 ppm	0.4927 ppm
Concentration per Run 2	0.4751 ppm	0.4962 ppm	0.4879 ppm	10.1375 ppm	0.5012 ppm	0.4932 ppm	0.4946 ppm
Concentration per Run 3	0.4820 ppm	0.4967 ppm	0.4923 ppm	10.1470 ppm	0.4971 ppm	0.4891 ppm	0.4869 ppm
Recovery Percentage 1	95.759 %	99.233 %	97.916 %	101.314 %	99.918 %	98.405 %	98.287 %
Concentration RSD	0.7 %	0.1 %	0.5 %	0.2 %	0.4 %	0.5 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4926 ppm	5.4478 ppm	0.4734 ppm	0.4852 ppm	0.4977 ppm	0.4836 ppm	0.4912 ppm
Concentration per Run 1	0.4971 ppm	5.4462 ppm	0.4750 ppm	0.4835 ppm	0.5005 ppm	0.4867 ppm	0.4928 ppm
Concentration per Run 2	0.4937 ppm	5.4490 ppm	0.4738 ppm	0.4852 ppm	0.4956 ppm	0.4852 ppm	0.4909 ppm
Concentration per Run 3	0.4870 ppm	5.4481 ppm	0.4714 ppm	0.4870 ppm	0.4969 ppm	0.4791 ppm	0.4899 ppm
Recovery Percentage 1	98.522 %	103.767 %	94.678 %	97.039 %	99.531 %	96.728 %	98.248 %
Concentration RSD	1.0 %	0.0 %	0.4 %	0.4 %	0.5 %	0.8 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4864 ppm	98.3673 %	107.0550 %	94.8894 %	95.0535 %	105.8442 %	95.6480 %
Concentration per Run 1	0.4873 ppm	97.8119 %	108.1253 %	94.7377 %	94.7630 %	106.7822 %	95.5639 %
Concentration per Run 2	0.4858 ppm	98.7093 %	106.8053 %	95.4053 %	95.0863 %	105.8086 %	96.1833 %
Concentration per Run 3	0.4859 ppm	98.5807 %	106.2345 %	94.5253 %	95.3110 %	104.9420 %	95.1966 %
Recovery Percentage 1	97.271 %						
Concentration RSD	0.2 %	0.5 %	0.9 %	0.5 %	0.3 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 9:39:30 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0008 ppm	-0.0011 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 1	0.0004 ppm	0.0073 ppm	-0.0011 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 2	0.0004 ppm	-0.0092 ppm	-0.0007 ppm	0.0019 ppm	-0.0001 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 3	-0.0001 ppm	0.0044 ppm	-0.0014 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0014 ppm
Recovery Percentage 1	3.353 %	0.814 %	-36.294 %	3.257 %	-0.286 %	0.371 %	1.129 %
Concentration RSD	138.4 %	1,081.5 %	32.6 %	84.4 %	375.0 %	152.4 %	49.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0005 ppm	0.0004 ppm	0.0015 ppm	0.0027 ppm	0.0341 ppm	0.0009 ppm
Concentration per Run 1	0.0000 ppm	-0.0006 ppm	0.0006 ppm	0.0016 ppm	0.0020 ppm	0.0392 ppm	0.0020 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0014 ppm	0.0027 ppm	0.0289 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0006 ppm	0.0000 ppm	0.0014 ppm	0.0033 ppm	0.0343 ppm	0.0011 ppm
Recovery Percentage 1	0.018 %	-2.463 %	3.651 %	14.707 %	5.362 %	1.365 %	9.413 %
Concentration RSD	3,203.4 %	43.6 %	88.9 %	6.0 %	24.3 %	15.0 %	118.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0012 ppm	0.0001 ppm	0.0023 ppm	0.0414 ppm	-0.0002 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 1	0.0025 ppm	-0.0001 ppm	0.0025 ppm	0.0455 ppm	-0.0001 ppm	-0.0008 ppm	0.0007 ppm
Concentration per Run 2	-0.0007 ppm	0.0003 ppm	0.0018 ppm	0.0425 ppm	-0.0004 ppm	-0.0004 ppm	0.0007 ppm
Concentration per Run 3	0.0018 ppm	0.0000 ppm	0.0024 ppm	0.0363 ppm	-0.0001 ppm	-0.0014 ppm	-0.0007 ppm
Recovery Percentage 1	1.180 %	0.610 %	4.531 %	2.071 %	-0.694 %	-8.775 %	0.474 %
Concentration RSD	142.5 %	285.0 %	16.2 %	11.4 %	105.6 %	57.4 %	344.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	-0.0047 ppm	0.0019 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0031 ppm	-0.0042 ppm	0.0017 ppm	0.0001 ppm	0.0002 ppm	0.0011 ppm	-0.0001 ppm
Concentration per Run 2	0.0024 ppm	-0.0043 ppm	0.0025 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 3	0.0020 ppm	-0.0056 ppm	0.0016 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm
Recovery Percentage 1	24.757 %	-0.936 %	3.878 %	0.106 %	0.955 %	1.054 %	-0.156 %
Concentration RSD	22.2 %	16.2 %	26.6 %	643.0 %	70.0 %	354.1 %	322.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	92.1892 %	102.3732 %	93.6566 %	93.7839 %	104.0039 %	96.1764 %
Concentration per Run 1	0.0003 ppm	90.6511 %	102.2889 %	93.2221 %	92.9571 %	103.9272 %	96.0842 %
Concentration per Run 2	0.0005 ppm	92.2008 %	102.1210 %	93.5247 %	93.6041 %	103.8838 %	96.2231 %
Concentration per Run 3	0.0004 ppm	93.7157 %	102.7097 %	94.2230 %	94.7905 %	104.2007 %	96.2219 %
Recovery Percentage 1	8.298 %						
Concentration RSD	29.0 %	1.7 %	0.3 %	0.5 %	1.0 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: WG1975278-2 WG1975278
Analysis started at: 9/26/2024 9:45:54 PM
Rack 3
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0547 ppm	2.0967 ppm	0.1235 ppm	1.0231 ppm	2.1586 ppm	0.0538 ppm	10.6181 ppm
Concentration per Run 1	0.0549 ppm	2.1038 ppm	0.1240 ppm	1.0260 ppm	2.1561 ppm	0.0537 ppm	10.6443 ppm
Concentration per Run 2	0.0545 ppm	2.0902 ppm	0.1244 ppm	1.0218 ppm	2.1592 ppm	0.0540 ppm	10.6303 ppm
Concentration per Run 3	0.0545 ppm	2.0960 ppm	0.1222 ppm	1.0216 ppm	2.1605 ppm	0.0537 ppm	10.5796 ppm
Concentration RSD	0.5 %	0.3 %	0.9 %	0.2 %	0.1 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0552 ppm	0.5291 ppm	0.2097 ppm	0.2689 ppm	1.0796 ppm	11.2195 ppm	0.0007 ppm
Concentration per Run 1	0.0555 ppm	0.5339 ppm	0.2108 ppm	0.2704 ppm	1.0815 ppm	11.2759 ppm	0.0012 ppm
Concentration per Run 2	0.0551 ppm	0.5258 ppm	0.2088 ppm	0.2678 ppm	1.0819 ppm	11.2766 ppm	-0.0001 ppm
Concentration per Run 3	0.0551 ppm	0.5277 ppm	0.2096 ppm	0.2684 ppm	1.0755 ppm	11.1060 ppm	0.0011 ppm
Concentration RSD	0.5 %	0.8 %	0.5 %	0.5 %	0.3 %	0.9 %	99.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.4992 ppm	0.5367 ppm	0.9818 ppm	10.9932 ppm	0.5349 ppm	0.5639 ppm	0.4752 ppm
Concentration per Run 1	10.5934 ppm	0.5361 ppm	0.9817 ppm	11.0193 ppm	0.5390 ppm	0.5646 ppm	0.4789 ppm
Concentration per Run 2	10.4645 ppm	0.5375 ppm	0.9738 ppm	10.9910 ppm	0.5315 ppm	0.5638 ppm	0.4723 ppm
Concentration per Run 3	10.4397 ppm	0.5363 ppm	0.9899 ppm	10.9692 ppm	0.5342 ppm	0.5632 ppm	0.4743 ppm
Concentration RSD	0.8 %	0.1 %	0.8 %	0.2 %	0.7 %	0.1 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1285 ppm	0.7631 ppm	0.9935 ppm	1.0268 ppm	1.0745 ppm	0.1231 ppm	0.5368 ppm
Concentration per Run 1	0.1289 ppm	0.7660 ppm	0.9969 ppm	1.0253 ppm	1.0814 ppm	0.1221 ppm	0.5401 ppm
Concentration per Run 2	0.1287 ppm	0.7604 ppm	0.9865 ppm	1.0313 ppm	1.0717 ppm	0.1234 ppm	0.5360 ppm
Concentration per Run 3	0.1279 ppm	0.7628 ppm	0.9971 ppm	1.0238 ppm	1.0704 ppm	0.1238 ppm	0.5344 ppm
Concentration RSD	0.4 %	0.4 %	0.6 %	0.4 %	0.6 %	0.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5272 ppm	95.5759 %	106.1594 %	92.5901 %	94.0026 %	105.6262 %	94.8722 %
Concentration per Run 1	0.5332 ppm	94.9697 %	105.6047 %	92.7714 %	94.1050 %	105.0750 %	95.0014 %
Concentration per Run 2	0.5247 ppm	95.7199 %	105.6301 %	92.3765 %	93.9965 %	104.8130 %	95.2059 %
Concentration per Run 3	0.5236 ppm	96.0382 %	107.2434 %	92.6224 %	93.9064 %	106.9906 %	94.4093 %
Concentration RSD	1.0 %	0.6 %	0.9 %	0.2 %	0.1 %	1.1 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 9:50:10 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4924 ppm	0.4832 ppm	0.4662 ppm	0.4795 ppm	0.5072 ppm	0.5083 ppm	0.4875 ppm
Concentration per Run 1	0.4924 ppm	0.4863 ppm	0.4673 ppm	0.4787 ppm	0.5093 ppm	0.5089 ppm	0.4877 ppm
Concentration per Run 2	0.4925 ppm	0.4794 ppm	0.4633 ppm	0.4801 ppm	0.5054 ppm	0.5086 ppm	0.4891 ppm
Concentration per Run 3	0.4922 ppm	0.4839 ppm	0.4679 ppm	0.4798 ppm	0.5068 ppm	0.5072 ppm	0.4858 ppm
Recovery Percentage 1	98.478 %	96.637 %	93.232 %	95.908 %	101.430 %	101.650 %	97.505 %
Concentration RSD	0.0 %	0.7 %	0.5 %	0.2 %	0.4 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4856 ppm	0.4968 ppm	0.4850 ppm	0.4815 ppm	0.5062 ppm	5.2509 ppm	0.4926 ppm
Concentration per Run 1	0.4854 ppm	0.4956 ppm	0.4856 ppm	0.4816 ppm	0.5057 ppm	5.2872 ppm	0.4957 ppm
Concentration per Run 2	0.4859 ppm	0.4995 ppm	0.4829 ppm	0.4829 ppm	0.5058 ppm	5.2448 ppm	0.4902 ppm
Concentration per Run 3	0.4854 ppm	0.4954 ppm	0.4865 ppm	0.4799 ppm	0.5070 ppm	5.2208 ppm	0.4917 ppm
Recovery Percentage 1	97.116 %	99.369 %	96.999 %	96.295 %	101.233 %	105.019 %	98.513 %
Concentration RSD	0.1 %	0.5 %	0.4 %	0.3 %	0.1 %	0.6 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4777 ppm	0.4924 ppm	0.4921 ppm	10.0244 ppm	0.4967 ppm	0.4857 ppm	0.4957 ppm
Concentration per Run 1	0.4785 ppm	0.4923 ppm	0.4884 ppm	10.0220 ppm	0.4987 ppm	0.4861 ppm	0.4948 ppm
Concentration per Run 2	0.4782 ppm	0.4930 ppm	0.4922 ppm	10.0406 ppm	0.4939 ppm	0.4869 ppm	0.4938 ppm
Concentration per Run 3	0.4766 ppm	0.4919 ppm	0.4955 ppm	10.0104 ppm	0.4974 ppm	0.4841 ppm	0.4986 ppm
Recovery Percentage 1	95.549 %	98.477 %	98.412 %	100.244 %	99.333 %	97.138 %	99.144 %
Concentration RSD	0.2 %	0.1 %	0.7 %	0.2 %	0.5 %	0.3 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4840 ppm	5.4115 ppm	0.4760 ppm	0.4811 ppm	0.4946 ppm	0.4749 ppm	0.4885 ppm
Concentration per Run 1	0.4849 ppm	5.3962 ppm	0.4771 ppm	0.4812 ppm	0.4964 ppm	0.4729 ppm	0.4893 ppm
Concentration per Run 2	0.4830 ppm	5.4162 ppm	0.4712 ppm	0.4823 ppm	0.4929 ppm	0.4749 ppm	0.4873 ppm
Concentration per Run 3	0.4842 ppm	5.4222 ppm	0.4797 ppm	0.4798 ppm	0.4946 ppm	0.4769 ppm	0.4889 ppm
Recovery Percentage 1	96.800 %	103.077 %	95.201 %	96.219 %	98.925 %	94.980 %	97.701 %
Concentration RSD	0.2 %	0.3 %	0.9 %	0.3 %	0.4 %	0.4 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4861 ppm	97.8833 %	105.2501 %	94.9364 %	94.2916 %	103.9085 %	95.0753 %
Concentration per Run 1	0.4853 ppm	98.0494 %	105.2970 %	94.8272 %	94.4408 %	103.7346 %	94.8865 %
Concentration per Run 2	0.4842 ppm	98.0267 %	104.9462 %	94.9608 %	94.4938 %	103.7553 %	95.1616 %
Concentration per Run 3	0.4886 ppm	97.5736 %	105.5071 %	95.0212 %	93.9401 %	104.2355 %	95.1778 %
Recovery Percentage 1	97.211 %						
Concentration RSD	0.5 %	0.3 %	0.3 %	0.1 %	0.3 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 9:54:08 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0005 ppm	-0.0005 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 1	0.0002 ppm	0.0051 ppm	0.0001 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 2	0.0000 ppm	-0.0041 ppm	0.0001 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 3	0.0001 ppm	-0.0026 ppm	-0.0015 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0011 ppm
Recovery Percentage 1	1.673 %	-0.543 %	-15.244 %	3.380 %	-0.126 %	0.193 %	1.753 %
Concentration RSD	110.0 %	905.7 %	201.0 %	23.4 %	465.2 %	180.5 %	44.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0002 ppm	0.0013 ppm	0.0029 ppm	0.0157 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0014 ppm	0.0022 ppm	0.0224 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	-0.0009 ppm	0.0003 ppm	0.0012 ppm	0.0036 ppm	0.0127 ppm	0.0017 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0015 ppm	0.0029 ppm	0.0119 ppm	0.0003 ppm
Recovery Percentage 1	0.167 %	-1.736 %	2.422 %	13.301 %	5.832 %	0.627 %	7.924 %
Concentration RSD	671.2 %	154.5 %	96.8 %	11.6 %	24.5 %	37.4 %	101.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0019 ppm	0.0001 ppm	0.0030 ppm	0.0229 ppm	0.0002 ppm	-0.0003 ppm	-0.0008 ppm
Concentration per Run 1	-0.0015 ppm	-0.0001 ppm	0.0028 ppm	0.0245 ppm	0.0004 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 2	-0.0022 ppm	0.0001 ppm	0.0031 ppm	0.0250 ppm	-0.0001 ppm	-0.0006 ppm	0.0009 ppm
Concentration per Run 3	-0.0021 ppm	0.0003 ppm	0.0030 ppm	0.0191 ppm	0.0002 ppm	-0.0003 ppm	-0.0026 ppm
Recovery Percentage 1	-1.919 %	1.234 %	5.966 %	1.144 %	0.768 %	-2.949 %	-1.673 %
Concentration RSD	21.2 %	158.0 %	5.2 %	14.2 %	137.7 %	102.1 %	209.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	-0.0049 ppm	0.0016 ppm	-0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	-0.0014 ppm	-0.0055 ppm	0.0016 ppm	-0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 2	0.0009 ppm	-0.0042 ppm	0.0015 ppm	-0.0001 ppm	-0.0001 ppm	0.0008 ppm	-0.0001 ppm
Concentration per Run 3	0.0011 ppm	-0.0052 ppm	0.0016 ppm	-0.0001 ppm	0.0002 ppm	0.0009 ppm	0.0000 ppm
Recovery Percentage 1	2.100 %	-0.985 %	3.178 %	-0.752 %	1.161 %	2.260 %	0.086 %
Concentration RSD	645.9 %	13.9 %	4.0 %	9.2 %	134.2 %	152.8 %	909.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	91.8925 %	103.0631 %	93.8717 %	93.6185 %	104.4898 %	96.1317 %
Concentration per Run 1	0.0004 ppm	90.4538 %	103.6119 %	93.3442 %	93.1157 %	105.2302 %	95.9566 %
Concentration per Run 2	0.0002 ppm	92.2865 %	103.0082 %	94.4385 %	93.7665 %	104.6755 %	96.7198 %
Concentration per Run 3	0.0005 ppm	92.9371 %	102.5692 %	93.8324 %	93.9733 %	103.5638 %	95.7186 %
Recovery Percentage 1	7.372 %						
Concentration RSD	34.8 %	1.4 %	0.5 %	0.6 %	0.5 %	0.8 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453389-06 WG1976101
Analysis started at: 9/26/2024 10:00:03 PM
Rack 3
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.4429 ppm	0.0010 ppm	0.1463 ppm	0.0113 ppm	0.0000 ppm	221.7000 ppm
Concentration per Run 1	0.0001 ppm	0.4467 ppm	0.0011 ppm	0.1473 ppm	0.0114 ppm	0.0001 ppm	221.6789 ppm
Concentration per Run 2	-0.0002 ppm	0.4423 ppm	0.0017 ppm	0.1452 ppm	0.0113 ppm	0.0000 ppm	221.3183 ppm
Concentration per Run 3	0.0000 ppm	0.4397 ppm	0.0002 ppm	0.1464 ppm	0.0113 ppm	0.0000 ppm	222.1027 ppm
Concentration RSD	651.0 %	0.8 %	72.5 %	0.7 %	0.5 %	82.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0009 ppm	0.0005 ppm	0.0001 ppm	0.0005 ppm	0.7627 ppm	5.5992 ppm	0.0555 ppm
Concentration per Run 1	-0.0010 ppm	0.0007 ppm	0.0000 ppm	0.0007 ppm	0.7597 ppm	5.6050 ppm	0.0554 ppm
Concentration per Run 2	-0.0010 ppm	0.0004 ppm	0.0001 ppm	0.0004 ppm	0.7671 ppm	5.6236 ppm	0.0554 ppm
Concentration per Run 3	-0.0009 ppm	0.0005 ppm	0.0002 ppm	0.0002 ppm	0.7612 ppm	5.5688 ppm	0.0556 ppm
Concentration RSD	2.5 %	32.8 %	80.8 %	51.1 %	0.5 %	0.5 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	261.3156 ppm	0.1682 ppm	0.0034 ppm	370.1317 ppm	0.0025 ppm	-0.0001 ppm	-0.0028 ppm
Concentration per Run 1	264.5097 ppm	0.1681 ppm	0.0034 ppm	369.1145 ppm	0.0026 ppm	0.0007 ppm	-0.0035 ppm
Concentration per Run 2	260.2661 ppm	0.1681 ppm	0.0032 ppm	370.3972 ppm	0.0026 ppm	-0.0003 ppm	-0.0021 ppm
Concentration per Run 3	259.1709 ppm	0.1684 ppm	0.0037 ppm	370.8835 ppm	0.0023 ppm	-0.0008 ppm	-0.0028 ppm
Concentration RSD	1.1 %	0.1 %	6.6 %	0.2 %	6.6 %	597.0 %	23.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	8.4968 ppm	-0.0007 ppm	2.9087 ppm	0.0087 ppm	0.0006 ppm	0.0016 ppm
Concentration per Run 1	0.0015 ppm	8.5904 ppm	-0.0012 ppm	2.9145 ppm	0.0081 ppm	0.0003 ppm	0.0014 ppm
Concentration per Run 2	0.0006 ppm	8.4525 ppm	-0.0001 ppm	2.8901 ppm	0.0082 ppm	0.0011 ppm	0.0016 ppm
Concentration per Run 3	0.0009 ppm	8.4474 ppm	-0.0008 ppm	2.9216 ppm	0.0099 ppm	0.0004 ppm	0.0018 ppm
Concentration RSD	47.2 %	1.0 %	86.0 %	0.6 %	11.8 %	75.4 %	13.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0077 ppm	91.2749 %	102.4980 %	82.9402 %	91.4677 %	102.1354 %	89.6805 %
Concentration per Run 1	0.0079 ppm	90.4749 %	103.4129 %	82.6304 %	91.6322 %	103.4883 %	89.3083 %
Concentration per Run 2	0.0076 ppm	91.4180 %	102.6284 %	83.1596 %	91.3981 %	102.0457 %	89.8220 %
Concentration per Run 3	0.0077 ppm	91.9317 %	101.4528 %	83.0306 %	91.3729 %	100.8720 %	89.9112 %
Concentration RSD	2.3 %	0.8 %	1.0 %	0.3 %	0.2 %	1.3 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453389-07 WG1976101
Analysis started at: 9/26/2024 10:04:24 PM
Rack 3
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.6805 ppm	0.0002 ppm	0.1627 ppm	0.0129 ppm	0.0001 ppm	225.4599 ppm
Concentration per Run 1	0.0000 ppm	0.6634 ppm	0.0007 ppm	0.1647 ppm	0.0128 ppm	0.0001 ppm	226.4463 ppm
Concentration per Run 2	-0.0001 ppm	0.6762 ppm	0.0016 ppm	0.1635 ppm	0.0128 ppm	0.0000 ppm	226.6145 ppm
Concentration per Run 3	0.0003 ppm	0.7020 ppm	-0.0016 ppm	0.1600 ppm	0.0131 ppm	0.0001 ppm	223.3189 ppm
Concentration RSD	344.9 %	2.9 %	714.6 %	1.5 %	1.2 %	41.0 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0010 ppm	0.0005 ppm	0.0006 ppm	0.0029 ppm	1.1778 ppm	5.9183 ppm	0.0572 ppm
Concentration per Run 1	-0.0011 ppm	0.0006 ppm	0.0005 ppm	0.0029 ppm	1.1776 ppm	5.9987 ppm	0.0596 ppm
Concentration per Run 2	-0.0011 ppm	0.0007 ppm	0.0006 ppm	0.0030 ppm	1.1778 ppm	5.8921 ppm	0.0556 ppm
Concentration per Run 3	-0.0010 ppm	0.0001 ppm	0.0006 ppm	0.0029 ppm	1.1779 ppm	5.8640 ppm	0.0563 ppm
Concentration RSD	2.7 %	69.6 %	9.3 %	0.8 %	0.0 %	1.2 %	3.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	279.3332 ppm	0.1933 ppm	0.0034 ppm	376.9248 ppm	0.0028 ppm	0.0007 ppm	-0.0015 ppm
Concentration per Run 1	284.9370 ppm	0.1938 ppm	0.0035 ppm	378.7571 ppm	0.0031 ppm	0.0006 ppm	0.0004 ppm
Concentration per Run 2	277.3897 ppm	0.1936 ppm	0.0031 ppm	376.0824 ppm	0.0034 ppm	0.0008 ppm	-0.0035 ppm
Concentration per Run 3	275.6730 ppm	0.1925 ppm	0.0034 ppm	375.9350 ppm	0.0020 ppm	0.0009 ppm	-0.0015 ppm
Concentration RSD	1.8 %	0.4 %	7.1 %	0.4 %	26.0 %	20.2 %	130.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	9.4211 ppm	-0.0009 ppm	2.9814 ppm	0.0143 ppm	0.0008 ppm	0.0018 ppm
Concentration per Run 1	-0.0008 ppm	9.6092 ppm	-0.0004 ppm	2.9817 ppm	0.0135 ppm	-0.0001 ppm	0.0019 ppm
Concentration per Run 2	0.0016 ppm	9.3970 ppm	-0.0006 ppm	2.9946 ppm	0.0152 ppm	0.0008 ppm	0.0020 ppm
Concentration per Run 3	0.0008 ppm	9.2570 ppm	-0.0018 ppm	2.9679 ppm	0.0144 ppm	0.0017 ppm	0.0015 ppm
Concentration RSD	235.0 %	1.9 %	81.8 %	0.4 %	5.9 %	112.0 %	14.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0095 ppm	87.0819 %	104.1802 %	80.9883 %	87.7112 %	103.9822 %	86.4822 %
Concentration per Run 1	0.0098 ppm	85.4464 %	103.0104 %	80.6786 %	87.1510 %	102.9603 %	86.6273 %
Concentration per Run 2	0.0094 ppm	87.7246 %	102.5770 %	81.0702 %	88.2700 %	102.6869 %	86.5086 %
Concentration per Run 3	0.0093 ppm	88.0748 %	106.9532 %	81.2161 %	87.7126 %	106.2994 %	86.3106 %
Concentration RSD	2.6 %	1.6 %	2.3 %	0.3 %	0.6 %	1.9 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453389-08 WG1976101
Analysis started at: 9/26/2024 10:08:24 PM
Rack 3
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0052 ppm	0.0007 ppm	0.0985 ppm	0.0033 ppm	0.0000 ppm	351.8689 ppm
Concentration per Run 1	-0.0002 ppm	0.0035 ppm	0.0007 ppm	0.0993 ppm	0.0035 ppm	0.0000 ppm	352.5709 ppm
Concentration per Run 2	-0.0003 ppm	0.0036 ppm	0.0005 ppm	0.0991 ppm	0.0032 ppm	0.0000 ppm	351.8420 ppm
Concentration per Run 3	-0.0001 ppm	0.0086 ppm	0.0009 ppm	0.0971 ppm	0.0033 ppm	0.0000 ppm	351.1937 ppm
Concentration RSD	48.2 %	55.8 %	27.0 %	1.3 %	5.9 %	93.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0017 ppm	-0.0004 ppm	0.0001 ppm	0.0015 ppm	4.9875 ppm	7.0452 ppm	0.1569 ppm
Concentration per Run 1	-0.0017 ppm	-0.0007 ppm	0.0002 ppm	0.0017 ppm	5.0054 ppm	7.1041 ppm	0.1602 ppm
Concentration per Run 2	-0.0018 ppm	-0.0001 ppm	-0.0002 ppm	0.0015 ppm	4.9718 ppm	7.0232 ppm	0.1547 ppm
Concentration per Run 3	-0.0017 ppm	-0.0005 ppm	0.0002 ppm	0.0012 ppm	4.9852 ppm	7.0082 ppm	0.1559 ppm
Concentration RSD	2.7 %	66.9 %	374.2 %	16.2 %	0.3 %	0.7 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	78.9876 ppm	0.7670 ppm	0.0009 ppm	140.6694 ppm	0.0005 ppm	-0.0006 ppm	-0.0010 ppm
Concentration per Run 1	80.1915 ppm	0.7683 ppm	0.0013 ppm	140.6291 ppm	0.0014 ppm	0.0004 ppm	-0.0002 ppm
Concentration per Run 2	78.7680 ppm	0.7667 ppm	0.0006 ppm	140.2175 ppm	0.0005 ppm	-0.0011 ppm	-0.0002 ppm
Concentration per Run 3	78.0033 ppm	0.7660 ppm	0.0007 ppm	141.1615 ppm	-0.0003 ppm	-0.0012 ppm	-0.0027 ppm
Concentration RSD	1.4 %	0.2 %	40.0 %	0.3 %	161.4 %	142.7 %	144.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	7.7849 ppm	-0.0013 ppm	**9.1285 ppm**	-0.0005 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	7.9266 ppm	-0.0009 ppm	9.1765 ppm	-0.0006 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 2	-0.0001 ppm	7.7325 ppm	-0.0016 ppm	9.1186 ppm	-0.0006 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 3	0.0023 ppm	7.6954 ppm	-0.0013 ppm	9.0904 ppm	-0.0005 ppm	-0.0006 ppm	0.0000 ppm
Concentration RSD	180.8 %	1.6 %	29.2 %	0.5 %	12.2 %	268.6 %	666.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	88.6120 %	105.2749 %	83.4376 %	89.6235 %	104.7428 %	88.4773 %
Concentration per Run 1	0.0008 ppm	87.7308 %	104.7518 %	82.9366 %	89.9575 %	105.0274 %	88.1578 %
Concentration per Run 2	0.0009 ppm	88.5625 %	105.8416 %	83.4051 %	89.3775 %	105.0181 %	88.8610 %
Concentration per Run 3	0.0008 ppm	89.5427 %	105.2313 %	83.9710 %	89.5356 %	104.1829 %	88.4131 %
Concentration RSD	11.5 %	1.0 %	0.5 %	0.6 %	0.3 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

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LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453389-09 WG1976101
Analysis started at: 9/26/2024 10:12:24 PM
Rack 3
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0233 ppm	-0.0004 ppm	0.0049 ppm	0.0341 ppm	0.0000 ppm	578.6339 ppm
Concentration per Run 1	0.0001 ppm	0.0361 ppm	-0.0006 ppm	0.0048 ppm	0.0340 ppm	0.0000 ppm	578.2546 ppm
Concentration per Run 2	-0.0002 ppm	0.0230 ppm	-0.0005 ppm	0.0053 ppm	0.0342 ppm	0.0000 ppm	577.3818 ppm
Concentration per Run 3	-0.0001 ppm	0.0108 ppm	-0.0002 ppm	0.0046 ppm	0.0342 ppm	0.0000 ppm	580.2653 ppm
Concentration RSD	242.5 %	54.3 %	54.9 %	7.6 %	0.3 %	127.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0030 ppm	-0.0001 ppm	0.0736 ppm	0.0090 ppm	0.0267 ppm	8.1194 ppm	0.1166 ppm
Concentration per Run 1	-0.0030 ppm	0.0001 ppm	0.0753 ppm	0.0091 ppm	0.0265 ppm	8.1509 ppm	0.1184 ppm
Concentration per Run 2	-0.0030 ppm	-0.0003 ppm	0.0731 ppm	0.0092 ppm	0.0272 ppm	8.1392 ppm	0.1151 ppm
Concentration per Run 3	-0.0029 ppm	0.0000 ppm	0.0725 ppm	0.0088 ppm	0.0264 ppm	8.0681 ppm	0.1164 ppm
Concentration RSD	2.3 %	185.5 %	2.0 %	1.9 %	1.7 %	0.6 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0594 ppm	0.0010 ppm	0.0049 ppm	127.5558 ppm	0.0014 ppm	-0.0009 ppm	-0.0012 ppm
Concentration per Run 1	0.0625 ppm	0.0010 ppm	0.0047 ppm	126.8656 ppm	0.0017 ppm	-0.0020 ppm	0.0000 ppm
Concentration per Run 2	0.0584 ppm	0.0010 ppm	0.0049 ppm	127.1355 ppm	0.0011 ppm	-0.0003 ppm	-0.0029 ppm
Concentration per Run 3	0.0574 ppm	0.0010 ppm	0.0050 ppm	128.6664 ppm	0.0013 ppm	-0.0005 ppm	-0.0009 ppm
Concentration RSD	4.6 %	1.0 %	3.3 %	0.8 %	21.7 %	103.8 %	118.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	0.4209 ppm	-0.0003 ppm	3.7130 ppm	-0.0008 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 1	0.0020 ppm	0.4317 ppm	-0.0010 ppm	3.7063 ppm	-0.0011 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 2	0.0003 ppm	0.4165 ppm	0.0005 ppm	3.7113 ppm	-0.0008 ppm	0.0012 ppm	-0.0001 ppm
Concentration per Run 3	-0.0005 ppm	0.4145 ppm	-0.0005 ppm	3.7213 ppm	-0.0006 ppm	0.0020 ppm	0.0003 ppm
Concentration RSD	219.6 %	2.2 %	226.6 %	0.2 %	31.5 %	70.5 %	181.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	86.8032 %	106.2143 %	82.1924 %	88.7426 %	106.8681 %	88.1221 %
Concentration per Run 1	0.0002 ppm	84.6965 %	106.1559 %	81.4303 %	87.6741 %	107.3273 %	87.8092 %
Concentration per Run 2	0.0001 ppm	87.1793 %	106.4490 %	82.4470 %	88.9620 %	106.6335 %	88.2210 %
Concentration per Run 3	0.0002 ppm	88.5336 %	106.0380 %	82.6998 %	89.5918 %	106.6435 %	88.3360 %
Concentration RSD	36.5 %	2.2 %	0.2 %	0.8 %	1.1 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

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LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454051-01 WG1976101
Analysis started at: 9/26/2024 10:16:24 PM
Rack 3
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.3530 ppm	0.0166 ppm	0.1360 ppm	0.3676 ppm	0.0001 ppm	129.9971 ppm
Concentration per Run 1	0.0004 ppm	0.3556 ppm	0.0166 ppm	0.1382 ppm	0.3674 ppm	0.0002 ppm	130.5743 ppm
Concentration per Run 2	0.0000 ppm	0.3498 ppm	0.0171 ppm	0.1363 ppm	0.3676 ppm	0.0001 ppm	129.8998 ppm
Concentration per Run 3	0.0000 ppm	0.3538 ppm	0.0160 ppm	0.1335 ppm	0.3678 ppm	0.0002 ppm	129.5174 ppm
Concentration RSD	227.3 %	0.8 %	3.5 %	1.7 %	0.1 %	33.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0047 ppm	0.0003 ppm	0.0091 ppm	18.9206 ppm	3.8609 ppm	0.0320 ppm
Concentration per Run 1	-0.0005 ppm	0.0052 ppm	0.0003 ppm	0.0092 ppm	19.0042 ppm	3.9079 ppm	0.0327 ppm
Concentration per Run 2	-0.0005 ppm	0.0044 ppm	0.0003 ppm	0.0091 ppm	18.8379 ppm	3.8269 ppm	0.0307 ppm
Concentration per Run 3	-0.0005 ppm	0.0047 ppm	0.0002 ppm	0.0089 ppm	18.9198 ppm	3.8480 ppm	0.0325 ppm
Concentration RSD	7.4 %	8.3 %	20.7 %	1.7 %	0.4 %	1.1 %	3.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	39.5897 ppm	6.3944 ppm	0.0046 ppm	30.0117 ppm	0.0020 ppm	0.0017 ppm	-0.0017 ppm
Concentration per Run 1	40.3662 ppm	6.4262 ppm	0.0049 ppm	30.0657 ppm	0.0018 ppm	0.0012 ppm	-0.0019 ppm
Concentration per Run 2	39.5331 ppm	6.3869 ppm	0.0049 ppm	29.9414 ppm	0.0019 ppm	0.0021 ppm	-0.0016 ppm
Concentration per Run 3	38.8699 ppm	6.3702 ppm	0.0042 ppm	30.0282 ppm	0.0024 ppm	0.0018 ppm	-0.0018 ppm
Concentration RSD	1.9 %	0.4 %	8.0 %	0.2 %	15.7 %	26.8 %	9.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	7.1000 ppm	-0.0013 ppm	2.0608 ppm	0.0027 ppm	-0.0027 ppm	0.0018 ppm
Concentration per Run 1	0.0008 ppm	7.2355 ppm	-0.0007 ppm	2.0741 ppm	0.0027 ppm	-0.0033 ppm	0.0019 ppm
Concentration per Run 2	-0.0015 ppm	7.0634 ppm	-0.0011 ppm	2.0515 ppm	0.0029 ppm	-0.0022 ppm	0.0017 ppm
Concentration per Run 3	0.0015 ppm	7.0010 ppm	-0.0021 ppm	2.0568 ppm	0.0027 ppm	-0.0026 ppm	0.0017 ppm
Concentration RSD	561.6 %	1.7 %	58.5 %	0.6 %	3.9 %	19.3 %	4.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0052 ppm	91.7902 %	109.4116 %	88.1542 %	96.5125 %	113.2615 %	95.7445 %
Concentration per Run 1	0.0053 ppm	90.0659 %	109.0258 %	87.5361 %	96.2014 %	113.5899 %	95.4130 %
Concentration per Run 2	0.0054 ppm	91.8861 %	109.0253 %	88.3603 %	96.5237 %	112.2492 %	95.8564 %
Concentration per Run 3	0.0050 ppm	93.4186 %	110.1837 %	88.5662 %	96.8125 %	113.9453 %	95.9642 %
Concentration RSD	4.0 %	1.8 %	0.6 %	0.6 %	0.3 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

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LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454051-02 WG1976101
Analysis started at: 9/26/2024 10:20:24 PM
Rack 3
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.3357 ppm	0.0003 ppm	0.1813 ppm	0.3296 ppm	0.0001 ppm	111.7374 ppm
Concentration per Run 1	0.0002 ppm	0.3370 ppm	0.0003 ppm	0.1834 ppm	0.3328 ppm	0.0001 ppm	111.5737 ppm
Concentration per Run 2	0.0002 ppm	0.3377 ppm	0.0012 ppm	0.1816 ppm	0.3281 ppm	0.0000 ppm	112.2817 ppm
Concentration per Run 3	0.0003 ppm	0.3323 ppm	-0.0004 ppm	0.1788 ppm	0.3279 ppm	0.0001 ppm	111.3569 ppm
Concentration RSD	31.5 %	0.9 %	236.1 %	1.3 %	0.8 %	36.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0017 ppm	0.0001 ppm	0.0040 ppm	0.5466 ppm	4.7042 ppm	0.0247 ppm
Concentration per Run 1	-0.0005 ppm	0.0013 ppm	0.0002 ppm	0.0042 ppm	0.5443 ppm	4.7571 ppm	0.0267 ppm
Concentration per Run 2	-0.0005 ppm	0.0020 ppm	0.0000 ppm	0.0038 ppm	0.5507 ppm	4.7190 ppm	0.0248 ppm
Concentration per Run 3	-0.0004 ppm	0.0016 ppm	0.0001 ppm	0.0040 ppm	0.5448 ppm	4.6364 ppm	0.0227 ppm
Concentration RSD	12.4 %	20.7 %	113.7 %	5.2 %	0.6 %	1.3 %	7.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	41.8541 ppm	3.8653 ppm	0.0004 ppm	37.4076 ppm	0.0041 ppm	-0.0001 ppm	-0.0023 ppm
Concentration per Run 1	42.6824 ppm	3.8783 ppm	0.0002 ppm	37.4430 ppm	0.0038 ppm	0.0000 ppm	-0.0020 ppm
Concentration per Run 2	41.8780 ppm	3.8689 ppm	0.0005 ppm	37.7613 ppm	0.0045 ppm	0.0001 ppm	-0.0015 ppm
Concentration per Run 3	41.0021 ppm	3.8486 ppm	0.0004 ppm	37.0185 ppm	0.0041 ppm	-0.0005 ppm	-0.0036 ppm
Concentration RSD	2.0 %	0.4 %	37.2 %	1.0 %	9.1 %	218.7 %	45.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	8.1698 ppm	-0.0007 ppm	1.4725 ppm	0.0202 ppm	-0.0021 ppm	0.0003 ppm
Concentration per Run 1	-0.0003 ppm	8.3283 ppm	-0.0011 ppm	1.4712 ppm	0.0206 ppm	-0.0029 ppm	0.0003 ppm
Concentration per Run 2	0.0004 ppm	8.1390 ppm	0.0000 ppm	1.4698 ppm	0.0201 ppm	-0.0023 ppm	0.0003 ppm
Concentration per Run 3	0.0015 ppm	8.0420 ppm	-0.0010 ppm	1.4764 ppm	0.0199 ppm	-0.0012 ppm	0.0002 ppm
Concentration RSD	174.6 %	1.8 %	85.2 %	0.2 %	1.9 %	41.2 %	23.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0032 ppm	90.4557 %	105.9274 %	87.3952 %	93.4062 %	107.6996 %	92.8597 %
Concentration per Run 1	0.0033 ppm	88.6932 %	106.7559 %	86.8657 %	92.7054 %	108.7706 %	92.9586 %
Concentration per Run 2	0.0031 ppm	90.4911 %	105.0356 %	87.4208 %	93.3835 %	106.8243 %	92.6923 %
Concentration per Run 3	0.0031 ppm	92.1828 %	105.9909 %	87.8990 %	94.1297 %	107.5039 %	92.9283 %
Concentration RSD	2.8 %	1.9 %	0.8 %	0.6 %	0.8 %	0.9 %	0.2 %

iCAP Pro Trace 8 Data report

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LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454051-03 WG1976101
Analysis started at: 9/26/2024 10:24:24 PM
Rack 3
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.9919 ppm	0.0003 ppm	0.0563 ppm	0.2528 ppm	0.0000 ppm	70.7941 ppm
Concentration per Run 1	0.0002 ppm	0.9903 ppm	-0.0009 ppm	0.0591 ppm	0.2534 ppm	0.0001 ppm	70.4490 ppm
Concentration per Run 2	0.0002 ppm	0.9924 ppm	0.0010 ppm	0.0550 ppm	0.2523 ppm	0.0000 ppm	70.7834 ppm
Concentration per Run 3	0.0001 ppm	0.9929 ppm	0.0009 ppm	0.0548 ppm	0.2527 ppm	0.0001 ppm	71.1500 ppm
Concentration RSD	35.8 %	0.1 %	309.1 %	4.3 %	0.2 %	42.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0010 ppm	0.0013 ppm	0.0064 ppm	1.6259 ppm	1.7291 ppm	0.0253 ppm
Concentration per Run 1	-0.0004 ppm	0.0010 ppm	0.0013 ppm	0.0064 ppm	1.6150 ppm	1.7476 ppm	0.0261 ppm
Concentration per Run 2	-0.0003 ppm	0.0010 ppm	0.0017 ppm	0.0065 ppm	1.6268 ppm	1.7333 ppm	0.0258 ppm
Concentration per Run 3	-0.0002 ppm	0.0010 ppm	0.0010 ppm	0.0063 ppm	1.6358 ppm	1.7062 ppm	0.0240 ppm
Concentration RSD	24.8 %	2.3 %	24.1 %	1.2 %	0.6 %	1.2 %	4.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.1830 ppm	0.6641 ppm	0.0011 ppm	12.8128 ppm	0.0022 ppm	0.0049 ppm	-0.0016 ppm
Concentration per Run 1	21.8327 ppm	0.6606 ppm	0.0012 ppm	12.7510 ppm	0.0026 ppm	0.0046 ppm	-0.0018 ppm
Concentration per Run 2	21.0030 ppm	0.6641 ppm	0.0011 ppm	12.8455 ppm	0.0020 ppm	0.0057 ppm	-0.0036 ppm
Concentration per Run 3	20.7133 ppm	0.6675 ppm	0.0012 ppm	12.8418 ppm	0.0021 ppm	0.0044 ppm	0.0004 ppm
Concentration RSD	2.7 %	0.5 %	6.2 %	0.4 %	13.9 %	15.0 %	121.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	8.8954 ppm	-0.0009 ppm	2.2557 ppm	0.0069 ppm	-0.0001 ppm	0.0019 ppm
Concentration per Run 1	-0.0002 ppm	9.1199 ppm	-0.0016 ppm	2.2541 ppm	0.0069 ppm	-0.0010 ppm	0.0019 ppm
Concentration per Run 2	0.0011 ppm	8.8370 ppm	-0.0006 ppm	2.2505 ppm	0.0072 ppm	-0.0003 ppm	0.0020 ppm
Concentration per Run 3	0.0008 ppm	8.7293 ppm	-0.0006 ppm	2.2624 ppm	0.0067 ppm	0.0011 ppm	0.0018 ppm
Concentration RSD	126.0 %	2.3 %	59.6 %	0.3 %	4.2 %	1,224.8 %	5.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0067 ppm	89.6883 %	106.5419 %	88.7573 %	93.8418 %	108.4922 %	94.3708 %
Concentration per Run 1	0.0070 ppm	87.1799 %	107.8249 %	88.1420 %	92.4701 %	109.7388 %	94.4117 %
Concentration per Run 2	0.0065 ppm	90.2066 %	106.5687 %	88.7123 %	94.1642 %	108.6163 %	93.8948 %
Concentration per Run 3	0.0066 ppm	91.6783 %	105.2322 %	89.4177 %	94.8911 %	107.1216 %	94.8059 %
Concentration RSD	3.8 %	2.6 %	1.2 %	0.7 %	1.3 %	1.2 %	0.5 %

iCAP Pro Trace 8 Data report

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LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454051-04 WG1976101
Analysis started at: 9/26/2024 10:28:24 PM
Rack 3
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.5309 ppm	-0.0002 ppm	0.0265 ppm	0.0638 ppm	0.0000 ppm	39.7207 ppm
Concentration per Run 1	0.0001 ppm	0.5251 ppm	-0.0008 ppm	0.0270 ppm	0.0637 ppm	0.0000 ppm	39.6682 ppm
Concentration per Run 2	0.0001 ppm	0.5396 ppm	-0.0006 ppm	0.0268 ppm	0.0636 ppm	0.0000 ppm	39.7397 ppm
Concentration per Run 3	0.0001 ppm	0.5281 ppm	0.0008 ppm	0.0256 ppm	0.0639 ppm	0.0001 ppm	39.7542 ppm
Concentration RSD	38.8 %	1.4 %	469.4 %	2.9 %	0.2 %	17.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0008 ppm	0.0011 ppm	0.0051 ppm	1.2038 ppm	1.4596 ppm	0.0115 ppm
Concentration per Run 1	0.0001 ppm	0.0010 ppm	0.0011 ppm	0.0055 ppm	1.1955 ppm	1.4842 ppm	0.0128 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	0.0012 ppm	0.0050 ppm	1.2066 ppm	1.4377 ppm	0.0110 ppm
Concentration per Run 3	0.0001 ppm	0.0005 ppm	0.0011 ppm	0.0048 ppm	1.2093 ppm	1.4569 ppm	0.0108 ppm
Concentration RSD	29.9 %	31.9 %	5.5 %	7.8 %	0.6 %	1.6 %	9.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.8025 ppm	0.7393 ppm	0.0016 ppm	5.1029 ppm	0.0026 ppm	0.0013 ppm	-0.0018 ppm
Concentration per Run 1	18.2733 ppm	0.7365 ppm	0.0018 ppm	5.1076 ppm	0.0027 ppm	0.0013 ppm	-0.0031 ppm
Concentration per Run 2	17.7466 ppm	0.7398 ppm	0.0015 ppm	5.1065 ppm	0.0026 ppm	0.0019 ppm	-0.0017 ppm
Concentration per Run 3	17.3876 ppm	0.7417 ppm	0.0015 ppm	5.0947 ppm	0.0026 ppm	0.0005 ppm	-0.0005 ppm
Concentration RSD	2.5 %	0.4 %	10.5 %	0.1 %	2.3 %	55.6 %	71.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	7.4078 ppm	-0.0009 ppm	0.2066 ppm	0.0049 ppm	-0.0007 ppm	0.0011 ppm
Concentration per Run 1	0.0005 ppm	7.5739 ppm	-0.0009 ppm	0.2057 ppm	0.0053 ppm	-0.0009 ppm	0.0012 ppm
Concentration per Run 2	0.0010 ppm	7.3777 ppm	-0.0003 ppm	0.2058 ppm	0.0047 ppm	-0.0006 ppm	0.0011 ppm
Concentration per Run 3	0.0001 ppm	7.2716 ppm	-0.0016 ppm	0.2084 ppm	0.0049 ppm	-0.0006 ppm	0.0011 ppm
Concentration RSD	90.5 %	2.1 %	70.3 %	0.7 %	5.5 %	21.5 %	5.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0172 ppm	90.9529 %	107.3938 %	90.3627 %	95.2045 %	109.3079 %	95.6160 %
Concentration per Run 1	0.0177 ppm	88.7425 %	109.3334 %	89.3922 %	94.2315 %	111.2693 %	95.2666 %
Concentration per Run 2	0.0173 ppm	90.9893 %	107.0472 %	90.6083 %	95.3754 %	109.0644 %	95.6330 %
Concentration per Run 3	0.0168 ppm	93.1270 %	105.8008 %	91.0876 %	96.0065 %	107.5900 %	95.9485 %
Concentration RSD	2.6 %	2.4 %	1.7 %	1.0 %	0.9 %	1.7 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454051-05 WG1976101
Analysis started at: 9/26/2024 10:32:25 PM
Rack 3
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.2288 ppm	-0.0002 ppm	0.1145 ppm	0.1315 ppm	0.0000 ppm	112.9165 ppm
Concentration per Run 1	0.0001 ppm	0.2352 ppm	0.0001 ppm	0.1155 ppm	0.1318 ppm	0.0000 ppm	113.4864 ppm
Concentration per Run 2	0.0003 ppm	0.2224 ppm	-0.0002 ppm	0.1157 ppm	0.1314 ppm	0.0001 ppm	112.7911 ppm
Concentration per Run 3	0.0004 ppm	0.2289 ppm	-0.0004 ppm	0.1124 ppm	0.1314 ppm	0.0000 ppm	112.4719 ppm
Concentration RSD	63.2 %	2.8 %	146.0 %	1.6 %	0.2 %	36.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0000 ppm	0.0003 ppm	0.0029 ppm	0.6191 ppm	6.4083 ppm	0.0055 ppm
Concentration per Run 1	-0.0006 ppm	0.0003 ppm	0.0005 ppm	0.0029 ppm	0.6219 ppm	6.4770 ppm	0.0056 ppm
Concentration per Run 2	-0.0005 ppm	0.0001 ppm	0.0004 ppm	0.0028 ppm	0.6165 ppm	6.3912 ppm	0.0052 ppm
Concentration per Run 3	-0.0005 ppm	-0.0004 ppm	0.0001 ppm	0.0029 ppm	0.6191 ppm	6.3569 ppm	0.0056 ppm
Concentration RSD	10.6 %	43,472.3 %	66.3 %	2.5 %	0.4 %	1.0 %	4.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.3227 ppm	0.4422 ppm	0.0015 ppm	30.1303 ppm	0.0010 ppm	0.0001 ppm	-0.0025 ppm
Concentration per Run 1	21.9030 ppm	0.4449 ppm	0.0018 ppm	30.3350 ppm	0.0004 ppm	0.0009 ppm	-0.0028 ppm
Concentration per Run 2	21.1576 ppm	0.4417 ppm	0.0014 ppm	29.9135 ppm	0.0011 ppm	0.0004 ppm	-0.0008 ppm
Concentration per Run 3	20.9076 ppm	0.4399 ppm	0.0013 ppm	30.1425 ppm	0.0015 ppm	-0.0009 ppm	-0.0040 ppm
Concentration RSD	2.4 %	0.6 %	17.3 %	0.7 %	52.7 %	799.5 %	64.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	2.2769 ppm	-0.0008 ppm	0.7673 ppm	0.0018 ppm	-0.0002 ppm	0.0007 ppm
Concentration per Run 1	-0.0010 ppm	2.3153 ppm	-0.0008 ppm	0.7666 ppm	0.0020 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 2	0.0004 ppm	2.2768 ppm	-0.0007 ppm	0.7692 ppm	0.0018 ppm	-0.0003 ppm	0.0007 ppm
Concentration per Run 3	-0.0002 ppm	2.2385 ppm	-0.0010 ppm	0.7660 ppm	0.0016 ppm	-0.0003 ppm	0.0006 ppm
Concentration RSD	266.9 %	1.7 %	14.5 %	0.2 %	9.7 %	140.5 %	11.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0026 ppm	90.0745 %	106.7113 %	87.9006 %	93.5541 %	108.2072 %	93.0415 %
Concentration per Run 1	0.0027 ppm	87.7270 %	105.4503 %	86.9292 %	92.3550 %	107.6148 %	92.4770 %
Concentration per Run 2	0.0024 ppm	90.5715 %	107.1204 %	88.3957 %	93.8170 %	108.4496 %	93.2471 %
Concentration per Run 3	0.0027 ppm	91.9249 %	107.5632 %	88.3769 %	94.4903 %	108.5572 %	93.4003 %
Concentration RSD	6.2 %	2.4 %	1.0 %	1.0 %	1.2 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 10:36:25 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4913 ppm	0.4836 ppm	0.4696 ppm	0.4734 ppm	0.5063 ppm	0.5040 ppm	0.4857 ppm
Concentration per Run 1	0.4914 ppm	0.4810 ppm	0.4667 ppm	0.4739 ppm	0.5046 ppm	0.5031 ppm	0.4835 ppm
Concentration per Run 2	0.4916 ppm	0.4832 ppm	0.4762 ppm	0.4755 ppm	0.5087 ppm	0.5033 ppm	0.4887 ppm
Concentration per Run 3	0.4910 ppm	0.4865 ppm	0.4660 ppm	0.4707 ppm	0.5056 ppm	0.5055 ppm	0.4849 ppm
Recovery Percentage 1	98.262 %	96.718 %	93.926 %	94.674 %	101.260 %	100.795 %	97.140 %
Concentration RSD	0.1 %	0.6 %	1.2 %	0.5 %	0.4 %	0.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4744 ppm	0.4877 ppm	0.4785 ppm	0.4808 ppm	0.5036 ppm	5.1891 ppm	0.4938 ppm
Concentration per Run 1	0.4763 ppm	0.4891 ppm	0.4789 ppm	0.4807 ppm	0.5042 ppm	5.1955 ppm	0.4933 ppm
Concentration per Run 2	0.4744 ppm	0.4871 ppm	0.4797 ppm	0.4809 ppm	0.5049 ppm	5.1652 ppm	0.4924 ppm
Concentration per Run 3	0.4727 ppm	0.4868 ppm	0.4768 ppm	0.4809 ppm	0.5017 ppm	5.2066 ppm	0.4958 ppm
Recovery Percentage 1	94.888 %	97.531 %	95.699 %	96.166 %	100.725 %	103.782 %	98.768 %
Concentration RSD	0.4 %	0.3 %	0.3 %	0.0 %	0.3 %	0.4 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4699 ppm	0.4891 ppm	0.4753 ppm	9.9038 ppm	0.4861 ppm	0.4882 ppm	0.4802 ppm
Concentration per Run 1	0.4737 ppm	0.4884 ppm	0.4730 ppm	9.8916 ppm	0.4857 ppm	0.4873 ppm	0.4800 ppm
Concentration per Run 2	0.4705 ppm	0.4889 ppm	0.4741 ppm	9.9375 ppm	0.4862 ppm	0.4905 ppm	0.4804 ppm
Concentration per Run 3	0.4656 ppm	0.4900 ppm	0.4788 ppm	9.8825 ppm	0.4866 ppm	0.4869 ppm	0.4802 ppm
Recovery Percentage 1	93.985 %	97.817 %	95.060 %	99.038 %	97.229 %	97.643 %	96.035 %
Concentration RSD	0.9 %	0.2 %	0.7 %	0.3 %	0.1 %	0.4 %	0.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4880 ppm	5.3725 ppm	0.4540 ppm	0.4764 ppm	0.4939 ppm	0.4803 ppm	0.4850 ppm
Concentration per Run 1	0.4855 ppm	5.3705 ppm	0.4539 ppm	0.4766 ppm	0.4932 ppm	0.4784 ppm	0.4859 ppm
Concentration per Run 2	0.4894 ppm	5.3709 ppm	0.4542 ppm	0.4751 ppm	0.4945 ppm	0.4852 ppm	0.4859 ppm
Concentration per Run 3	0.4890 ppm	5.3761 ppm	0.4540 ppm	0.4776 ppm	0.4939 ppm	0.4773 ppm	0.4831 ppm
Recovery Percentage 1	97.592 %	102.333 %	90.808 %	95.286 %	98.771 %	96.061 %	96.991 %
Concentration RSD	0.4 %	0.1 %	0.0 %	0.3 %	0.1 %	0.9 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4696 ppm	99.6977 %	110.3987 %	96.0648 %	96.0733 %	108.7370 %	96.6192 %
Concentration per Run 1	0.4697 ppm	99.0208 %	111.0216 %	95.8609 %	95.4088 %	109.1822 %	96.3137 %
Concentration per Run 2	0.4684 ppm	99.7018 %	110.8343 %	95.9155 %	95.6964 %	109.4518 %	96.5541 %
Concentration per Run 3	0.4707 ppm	100.3705 %	109.3402 %	96.4178 %	97.1147 %	107.5770 %	96.9899 %
Recovery Percentage 1	93.915 %						
Concentration RSD	0.2 %	0.7 %	0.8 %	0.3 %	1.0 %	0.9 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 10:40:23 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0057 ppm	-0.0004 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0040 ppm
Concentration per Run 1	0.0005 ppm	0.0017 ppm	-0.0007 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 2	0.0001 ppm	0.0089 ppm	-0.0005 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 3	0.0002 ppm	0.0064 ppm	0.0001 ppm	-0.0009 ppm	-0.0002 ppm	0.0000 ppm	0.0027 ppm
Recovery Percentage 1	3.441 %	5.673 %	-12.995 %	0.295 %	-1.019 %	0.268 %	3.970 %
Concentration RSD	81.4 %	64.4 %	102.7 %	1,322.5 %	83.2 %	103.1 %	43.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0042 ppm	0.0223 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	-0.0001 ppm	0.0015 ppm	0.0041 ppm	0.0269 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0011 ppm	0.0041 ppm	-0.0036 ppm	0.0022 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0011 ppm	0.0044 ppm	0.0437 ppm	0.0003 ppm
Recovery Percentage 1	0.878 %	-0.594 %	0.771 %	12.419 %	8.398 %	0.892 %	6.619 %
Concentration RSD	56.8 %	179.5 %	182.8 %	15.4 %	4.0 %	107.6 %	213.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0002 ppm	0.0017 ppm	0.0223 ppm	0.0001 ppm	-0.0010 ppm	-0.0009 ppm
Concentration per Run 1	0.0003 ppm	0.0001 ppm	0.0022 ppm	0.0223 ppm	-0.0001 ppm	-0.0010 ppm	-0.0007 ppm
Concentration per Run 2	-0.0005 ppm	0.0004 ppm	0.0014 ppm	0.0189 ppm	0.0005 ppm	-0.0009 ppm	-0.0023 ppm
Concentration per Run 3	-0.0009 ppm	0.0000 ppm	0.0016 ppm	0.0258 ppm	-0.0001 ppm	-0.0011 ppm	0.0001 ppm
Recovery Percentage 1	-0.358 %	1.714 %	3.401 %	1.115 %	0.426 %	-9.663 %	-1.895 %
Concentration RSD	175.4 %	132.1 %	25.2 %	15.4 %	349.6 %	9.8 %	127.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	-0.0059 ppm	0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 1	0.0005 ppm	-0.0062 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 2	0.0004 ppm	-0.0048 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0017 ppm	0.0000 ppm
Concentration per Run 3	0.0009 ppm	-0.0066 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0002 ppm
Recovery Percentage 1	6.102 %	-1.172 %	0.466 %	-0.173 %	2.683 %	1.854 %	1.115 %
Concentration RSD	37.1 %	16.0 %	109.3 %	153.1 %	9.6 %	321.8 %	73.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	94.4654 %	107.7503 %	94.4575 %	96.1309 %	108.8691 %	96.8007 %
Concentration per Run 1	0.0003 ppm	92.8106 %	109.1727 %	94.3377 %	95.2656 %	109.8411 %	96.9386 %
Concentration per Run 2	0.0002 ppm	95.8364 %	106.9698 %	94.1687 %	97.4599 %	108.3050 %	96.3822 %
Concentration per Run 3	0.0003 ppm	94.7493 %	107.1085 %	94.8661 %	95.6672 %	108.4612 %	97.0812 %
Recovery Percentage 1	4.976 %						
Concentration RSD	28.4 %	1.6 %	1.1 %	0.4 %	1.2 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453598-02d4 WG1975357
Analysis started at: 9/26/2024 10:47:13 PM
Rack 3
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0377 ppm	55.7475 ppm	0.1000 ppm	0.1312 ppm	2.5879 ppm	0.0017 ppm	152.5012 ppm
Concentration per Run 1	0.0375 ppm	55.6325 ppm	0.1009 ppm	0.1315 ppm	2.5885 ppm	0.0018 ppm	151.8552 ppm
Concentration per Run 2	0.0382 ppm	55.9254 ppm	0.0998 ppm	0.1323 ppm	2.5942 ppm	0.0018 ppm	153.0784 ppm
Concentration per Run 3	0.0374 ppm	55.6847 ppm	0.0994 ppm	0.1298 ppm	2.5811 ppm	0.0017 ppm	152.5701 ppm
Concentration RSD	1.2 %	0.3 %	0.8 %	0.9 %	0.3 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0360 ppm	0.0360 ppm	0.3618 ppm	3.3293 ppm	281.9070 ppm	8.0067 ppm	0.0439 ppm
Concentration per Run 1	0.0359 ppm	0.0355 ppm	0.3592 ppm	3.3107 ppm	281.1542 ppm	8.0308 ppm	0.0465 ppm
Concentration per Run 2	0.0361 ppm	0.0359 ppm	0.3626 ppm	3.3389 ppm	282.5775 ppm	8.0028 ppm	0.0425 ppm
Concentration per Run 3	0.0361 ppm	0.0366 ppm	0.3634 ppm	3.3384 ppm	281.9893 ppm	7.9865 ppm	0.0426 ppm
Concentration RSD	0.4 %	1.5 %	0.6 %	0.5 %	0.3 %	0.3 %	5.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	23.9019 ppm	4.7330 ppm	0.0450 ppm	9.7444 ppm	0.2353 ppm	6.2432 ppm	0.0919 ppm
Concentration per Run 1	23.7491 ppm	4.7235 ppm	0.0445 ppm	9.7502 ppm	0.2342 ppm	6.2538 ppm	0.0928 ppm
Concentration per Run 2	23.9049 ppm	4.7423 ppm	0.0449 ppm	9.7408 ppm	0.2360 ppm	6.2531 ppm	0.0934 ppm
Concentration per Run 3	24.0517 ppm	4.7333 ppm	0.0455 ppm	9.7423 ppm	0.2357 ppm	6.2225 ppm	0.0894 ppm
Concentration RSD	0.6 %	0.2 %	1.1 %	0.1 %	0.4 %	0.3 %	2.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0033 ppm	1.4585 ppm	0.9816 ppm	0.6188 ppm	1.5166 ppm	-0.0004 ppm	0.0959 ppm
Concentration per Run 1	0.0044 ppm	1.4502 ppm	0.9764 ppm	0.6143 ppm	1.5081 ppm	-0.0007 ppm	0.0953 ppm
Concentration per Run 2	0.0024 ppm	1.4668 ppm	0.9814 ppm	0.6187 ppm	1.5192 ppm	0.0001 ppm	0.0954 ppm
Concentration per Run 3	0.0031 ppm	1.4585 ppm	0.9870 ppm	0.6235 ppm	1.5227 ppm	-0.0007 ppm	0.0969 ppm
Concentration RSD	30.6 %	0.6 %	0.5 %	0.7 %	0.5 %	109.9 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	5.9805 ppm	103.1984 %	109.8958 %	88.2473 %	106.1921 %	115.5215 %	102.9967 %
Concentration per Run 1	5.9547 ppm	103.7297 %	110.1930 %	87.9659 %	106.5457 %	115.5891 %	102.7522 %
Concentration per Run 2	6.0004 ppm	103.1225 %	109.8913 %	88.1853 %	106.4646 %	115.7548 %	103.2175 %
Concentration per Run 3	5.9864 ppm	102.7431 %	109.6029 %	88.5906 %	105.5662 %	115.2206 %	103.0205 %
Concentration RSD	0.4 %	0.5 %	0.3 %	0.4 %	0.5 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453613-13d10 WG1975357
Analysis started at: 9/26/2024 10:51:35 PM
Rack 3
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	8.4368 ppm	0.0081 ppm	0.0053 ppm	0.8936 ppm	0.0004 ppm	10.0701 ppm
Concentration per Run 1	-0.0006 ppm	8.4150 ppm	0.0083 ppm	0.0049 ppm	0.8888 ppm	0.0005 ppm	10.0426 ppm
Concentration per Run 2	-0.0007 ppm	8.4708 ppm	0.0078 ppm	0.0057 ppm	0.8982 ppm	0.0004 ppm	10.1061 ppm
Concentration per Run 3	-0.0007 ppm	8.4247 ppm	0.0081 ppm	0.0051 ppm	0.8938 ppm	0.0004 ppm	10.0615 ppm
Concentration RSD	8.8 %	0.4 %	2.8 %	8.3 %	0.5 %	7.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0237 ppm	0.0154 ppm	0.0140 ppm	17.7020 ppm	0.7636 ppm	0.0209 ppm
Concentration per Run 1	0.0004 ppm	0.0238 ppm	0.0155 ppm	0.0141 ppm	17.6701 ppm	0.7806 ppm	0.0222 ppm
Concentration per Run 2	0.0004 ppm	0.0235 ppm	0.0155 ppm	0.0141 ppm	17.8139 ppm	0.7504 ppm	0.0211 ppm
Concentration per Run 3	0.0005 ppm	0.0238 ppm	0.0153 ppm	0.0138 ppm	17.6220 ppm	0.7597 ppm	0.0194 ppm
Concentration RSD	11.5 %	0.8 %	0.6 %	1.3 %	0.6 %	2.0 %	6.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.7523 ppm	44.9414 [SIC 100]	0.0025 ppm	0.1865 ppm	0.0327 ppm	0.0109 ppm	-0.0002 ppm
Concentration per Run 1	3.7861 ppm	44.8355 ppm	0.0027 ppm	0.1879 ppm	0.0324 ppm	0.0114 ppm	0.0006 ppm
Concentration per Run 2	3.7436 ppm	45.0977 ppm	0.0022 ppm	0.1880 ppm	0.0333 ppm	0.0106 ppm	-0.0010 ppm
Concentration per Run 3	3.7272 ppm	44.8911 ppm	0.0026 ppm	0.1836 ppm	0.0324 ppm	0.0107 ppm	-0.0001 ppm
Concentration RSD	0.8 %	0.3 %	10.2 %	1.4 %	1.5 %	4.0 %	408.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0034 ppm	0.3539 ppm	0.0012 ppm	0.1103 ppm	0.0240 ppm	-0.0180 ppm	0.0291 ppm
Concentration per Run 1	-0.0039 ppm	0.3568 ppm	0.0011 ppm	0.1103 ppm	0.0240 ppm	-0.0189 ppm	0.0293 ppm
Concentration per Run 2	-0.0042 ppm	0.3529 ppm	0.0015 ppm	0.1103 ppm	0.0238 ppm	-0.0169 ppm	0.0291 ppm
Concentration per Run 3	-0.0021 ppm	0.3520 ppm	0.0011 ppm	0.1103 ppm	0.0241 ppm	-0.0181 ppm	0.0287 ppm
Concentration RSD	34.0 %	0.7 %	20.0 %	0.0 %	0.6 %	5.8 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0612 ppm	97.1761 %	110.4111 %	93.4042 %	97.7189 %	111.6365 %	98.1157 %
Concentration per Run 1	0.0614 ppm	96.1173 %	110.7125 %	93.1007 %	97.1105 %	112.2954 %	97.9386 %
Concentration per Run 2	0.0612 ppm	97.4213 %	109.8831 %	93.3216 %	97.9528 %	111.0887 %	98.0672 %
Concentration per Run 3	0.0610 ppm	97.9898 %	110.6377 %	93.7904 %	98.0934 %	111.5253 %	98.3414 %
Concentration RSD	0.4 %	1.0 %	0.4 %	0.4 %	0.5 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453715-02d5 WG1975357
Analysis started at: 9/26/2024 10:55:35 PM
Rack 3
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	14.8550 ppm	0.0384 ppm	0.0233 ppm	0.2921 ppm	0.0012 ppm	503.4189 ppm
Concentration per Run 1	0.0007 ppm	14.8537 ppm	0.0392 ppm	0.0228 ppm	0.2930 ppm	0.0012 ppm	502.4802 ppm
Concentration per Run 2	0.0003 ppm	14.8818 ppm	0.0378 ppm	0.0223 ppm	0.2934 ppm	0.0012 ppm	503.9056 ppm
Concentration per Run 3	0.0011 ppm	14.8296 ppm	0.0382 ppm	0.0248 ppm	0.2900 ppm	0.0012 ppm	503.8707 ppm
Concentration RSD	63.2 %	0.2 %	1.8 %	5.7 %	0.6 %	1.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0020 ppm	0.0197 ppm	0.0388 ppm	0.2802 ppm	119.2353 ppm	1.9419 ppm	0.0408 ppm
Concentration per Run 1	-0.0019 ppm	0.0197 ppm	0.0390 ppm	0.2813 ppm	119.4095 ppm	1.9700 ppm	0.0413 ppm
Concentration per Run 2	-0.0021 ppm	0.0195 ppm	0.0387 ppm	0.2784 ppm	119.6035 ppm	1.9434 ppm	0.0406 ppm
Concentration per Run 3	-0.0019 ppm	0.0198 ppm	0.0388 ppm	0.2809 ppm	118.6928 ppm	1.9124 ppm	0.0403 ppm
Concentration RSD	4.7 %	0.7 %	0.3 %	0.6 %	0.4 %	1.5 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	57.7912 ppm	1.1144 ppm	0.0137 ppm	4.0548 ppm	0.0526 ppm	0.3832 ppm	0.0084 ppm
Concentration per Run 1	57.9456 ppm	1.1117 ppm	0.0136 ppm	4.0562 ppm	0.0532 ppm	0.3865 ppm	0.0105 ppm
Concentration per Run 2	57.7808 ppm	1.1182 ppm	0.0139 ppm	4.0695 ppm	0.0524 ppm	0.3808 ppm	0.0055 ppm
Concentration per Run 3	57.6471 ppm	1.1132 ppm	0.0135 ppm	4.0387 ppm	0.0522 ppm	0.3822 ppm	0.0092 ppm
Concentration RSD	0.3 %	0.3 %	1.4 %	0.4 %	1.0 %	0.8 %	31.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0033 ppm	3.7625 ppm	0.0541 ppm	1.9019 ppm	0.4045 ppm	0.0014 ppm	0.0486 ppm
Concentration per Run 1	0.0020 ppm	3.7974 ppm	0.0542 ppm	1.9046 ppm	0.4023 ppm	0.0019 ppm	0.0486 ppm
Concentration per Run 2	0.0045 ppm	3.7336 ppm	0.0541 ppm	1.9010 ppm	0.4051 ppm	0.0008 ppm	0.0490 ppm
Concentration per Run 3	0.0035 ppm	3.7565 ppm	0.0541 ppm	1.9002 ppm	0.4060 ppm	0.0014 ppm	0.0483 ppm
Concentration RSD	38.7 %	0.9 %	0.1 %	0.1 %	0.5 %	41.3 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2738 ppm	92.6812 %	107.1514 %	84.4402 %	95.7181 %	113.3515 %	95.4138 %
Concentration per Run 1	0.2751 ppm	92.3947 %	107.8229 %	84.0487 %	95.5918 %	114.0335 %	95.0298 %
Concentration per Run 2	0.2710 ppm	92.8422 %	106.7625 %	84.7999 %	95.5408 %	112.7393 %	95.6787 %
Concentration per Run 3	0.2753 ppm	92.8067 %	106.8687 %	84.4721 %	96.0216 %	113.2816 %	95.5328 %
Concentration RSD	0.9 %	0.3 %	0.5 %	0.4 %	0.3 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453715-03d5 WG1975357
Analysis started at: 9/26/2024 10:59:35 PM
Rack 3
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	12.2568 ppm	0.0253 ppm	0.0173 ppm	0.2493 ppm	0.0010 ppm	434.6270 ppm
Concentration per Run 1	0.0006 ppm	12.1990 ppm	0.0260 ppm	0.0176 ppm	0.2492 ppm	0.0010 ppm	431.8808 ppm
Concentration per Run 2	0.0004 ppm	12.2840 ppm	0.0260 ppm	0.0174 ppm	0.2504 ppm	0.0010 ppm	435.6584 ppm
Concentration per Run 3	0.0007 ppm	12.2873 ppm	0.0238 ppm	0.0168 ppm	0.2484 ppm	0.0011 ppm	436.3417 ppm
Concentration RSD	23.8 %	0.4 %	5.0 %	2.4 %	0.4 %	2.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0015 ppm	0.0147 ppm	0.0278 ppm	0.2028 ppm	47.1387 ppm	1.7091 ppm	0.0351 ppm
Concentration per Run 1	-0.0015 ppm	0.0151 ppm	0.0280 ppm	0.2042 ppm	46.9410 ppm	1.7065 ppm	0.0357 ppm
Concentration per Run 2	-0.0015 ppm	0.0142 ppm	0.0277 ppm	0.2022 ppm	47.2814 ppm	1.7023 ppm	0.0345 ppm
Concentration per Run 3	-0.0014 ppm	0.0149 ppm	0.0277 ppm	0.2020 ppm	47.1938 ppm	1.7184 ppm	0.0350 ppm
Concentration RSD	3.3 %	3.3 %	0.6 %	0.6 %	0.4 %	0.5 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	38.4369 ppm	0.7759 ppm	0.0068 ppm	6.4911 ppm	0.0429 ppm	0.4302 ppm	0.0027 ppm
Concentration per Run 1	38.6506 ppm	0.7710 ppm	0.0068 ppm	6.4679 ppm	0.0430 ppm	0.4326 ppm	0.0034 ppm
Concentration per Run 2	38.2045 ppm	0.7781 ppm	0.0071 ppm	6.5082 ppm	0.0431 ppm	0.4279 ppm	0.0014 ppm
Concentration per Run 3	38.4557 ppm	0.7785 ppm	0.0065 ppm	6.4973 ppm	0.0428 ppm	0.4299 ppm	0.0033 ppm
Concentration RSD	0.6 %	0.5 %	4.4 %	0.3 %	0.4 %	0.6 %	41.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0046 ppm	2.5207 ppm	0.0305 ppm	1.9411 ppm	0.3817 ppm	0.0014 ppm	0.0369 ppm
Concentration per Run 1	0.0063 ppm	2.5400 ppm	0.0308 ppm	1.9370 ppm	0.3873 ppm	0.0019 ppm	0.0372 ppm
Concentration per Run 2	0.0037 ppm	2.5152 ppm	0.0304 ppm	1.9441 ppm	0.3783 ppm	0.0016 ppm	0.0367 ppm
Concentration per Run 3	0.0039 ppm	2.5069 ppm	0.0303 ppm	1.9422 ppm	0.3794 ppm	0.0007 ppm	0.0368 ppm
Concentration RSD	30.9 %	0.7 %	0.9 %	0.2 %	1.3 %	44.5 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2172 ppm	93.2584 %	108.2467 %	85.5506 %	95.2026 %	112.1112 %	94.3456 %
Concentration per Run 1	0.2182 ppm	92.4006 %	109.4432 %	85.5326 %	94.6123 %	113.0200 %	94.2108 %
Concentration per Run 2	0.2151 ppm	94.1299 %	107.7090 %	85.3844 %	96.1052 %	111.8425 %	94.0291 %
Concentration per Run 3	0.2185 ppm	93.2447 %	107.5878 %	85.7347 %	94.8903 %	111.4711 %	94.7968 %
Concentration RSD	0.8 %	0.9 %	1.0 %	0.2 %	0.8 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454014-01d5 WG1975357
Analysis started at: 9/26/2024 11:03:35 PM
Rack 3
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	24.7103 ppm	0.0151 ppm	0.0010 ppm	0.0325 ppm	0.0018 ppm	674.2293 ppm
Concentration per Run 1	0.0000 ppm	24.6928 ppm	0.0162 ppm	0.0008 ppm	0.0321 ppm	0.0018 ppm	672.6631 ppm
Concentration per Run 2	0.0001 ppm	24.7295 ppm	0.0149 ppm	0.0008 ppm	0.0328 ppm	0.0018 ppm	675.2420 ppm
Concentration per Run 3	0.0002 ppm	24.7085 ppm	0.0142 ppm	0.0016 ppm	0.0326 ppm	0.0018 ppm	674.7828 ppm
Concentration RSD	79.5 %	0.1 %	6.7 %	43.1 %	1.1 %	2.0 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0029 ppm	0.0338 ppm	0.0393 ppm	0.0507 ppm	63.5943 ppm	0.5873 ppm	0.0813 ppm
Concentration per Run 1	-0.0028 ppm	0.0339 ppm	0.0394 ppm	0.0512 ppm	63.3721 ppm	0.5806 ppm	0.0815 ppm
Concentration per Run 2	-0.0030 ppm	0.0337 ppm	0.0395 ppm	0.0503 ppm	63.6684 ppm	0.5811 ppm	0.0829 ppm
Concentration per Run 3	-0.0030 ppm	0.0338 ppm	0.0391 ppm	0.0505 ppm	63.7423 ppm	0.6001 ppm	0.0796 ppm
Concentration RSD	2.5 %	0.3 %	0.6 %	1.0 %	0.3 %	1.9 %	2.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.5713 ppm	2.7217 ppm	0.0032 ppm	0.1619 ppm	0.0635 ppm	0.0475 ppm	-0.0016 ppm
Concentration per Run 1	24.6280 ppm	2.7226 ppm	0.0029 ppm	0.1656 ppm	0.0636 ppm	0.0491 ppm	-0.0030 ppm
Concentration per Run 2	24.5475 ppm	2.7222 ppm	0.0028 ppm	0.1638 ppm	0.0639 ppm	0.0472 ppm	0.0007 ppm
Concentration per Run 3	24.5385 ppm	2.7202 ppm	0.0039 ppm	0.1564 ppm	0.0630 ppm	0.0461 ppm	-0.0026 ppm
Concentration RSD	0.2 %	0.0 %	19.2 %	3.0 %	0.8 %	3.2 %	126.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	0.8162 ppm	0.0007 ppm	3.3626 ppm	0.0226 ppm	-0.0002 ppm	0.0144 ppm
Concentration per Run 1	0.0017 ppm	0.8232 ppm	0.0007 ppm	3.3313 ppm	0.0227 ppm	0.0000 ppm	0.0143 ppm
Concentration per Run 2	0.0001 ppm	0.8198 ppm	0.0010 ppm	3.3793 ppm	0.0226 ppm	0.0003 ppm	0.0144 ppm
Concentration per Run 3	-0.0017 ppm	0.8056 ppm	0.0005 ppm	3.3771 ppm	0.0226 ppm	-0.0007 ppm	0.0144 ppm
Concentration RSD	2,392.6 %	1.1 %	34.7 %	0.8 %	0.2 %	316.6 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1378 ppm	93.5106 %	107.7034 %	85.8804 %	99.6379 %	117.0577 %	99.0646 %
Concentration per Run 1	0.1386 ppm	93.4938 %	107.3778 %	85.6676 %	100.0149 %	116.5003 %	98.7398 %
Concentration per Run 2	0.1378 ppm	93.4605 %	108.2269 %	85.4551 %	99.5528 %	118.0538 %	98.4788 %
Concentration per Run 3	0.1370 ppm	93.5776 %	107.5056 %	86.5184 %	99.3459 %	116.6190 %	99.9750 %
Concentration RSD	0.6 %	0.1 %	0.4 %	0.7 %	0.3 %	0.7 %	0.8 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2454014-02d5 WG1975357
Analysis started at: 9/26/2024 11:07:36 PM
Rack 3
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	25.3543 ppm	0.0090 ppm	0.0012 ppm	0.0286 ppm	0.0016 ppm	617.1945 ppm
Concentration per Run 1	0.0000 ppm	25.3991 ppm	0.0075 ppm	0.0011 ppm	0.0286 ppm	0.0016 ppm	616.8104 ppm
Concentration per Run 2	0.0003 ppm	25.3295 ppm	0.0121 ppm	0.0012 ppm	0.0285 ppm	0.0016 ppm	617.4267 ppm
Concentration per Run 3	0.0000 ppm	25.3343 ppm	0.0075 ppm	0.0014 ppm	0.0286 ppm	0.0016 ppm	617.3466 ppm
Concentration RSD	199.2 %	0.2 %	29.5 %	14.4 %	0.3 %	0.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0027 ppm	0.0352 ppm	0.0345 ppm	0.0446 ppm	56.7884 ppm	0.4694 ppm	0.0845 ppm
Concentration per Run 1	-0.0027 ppm	0.0356 ppm	0.0347 ppm	0.0452 ppm	56.7824 ppm	0.4812 ppm	0.0853 ppm
Concentration per Run 2	-0.0027 ppm	0.0354 ppm	0.0345 ppm	0.0440 ppm	56.7024 ppm	0.4666 ppm	0.0834 ppm
Concentration per Run 3	-0.0027 ppm	0.0346 ppm	0.0342 ppm	0.0447 ppm	56.8803 ppm	0.4605 ppm	0.0849 ppm
Concentration RSD	1.3 %	1.5 %	0.8 %	1.3 %	0.2 %	2.3 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.4726 ppm	5.1313 ppm	0.0021 ppm	0.1497 ppm	0.0606 ppm	0.0415 ppm	-0.0002 ppm
Concentration per Run 1	26.7586 ppm	5.1296 ppm	0.0023 ppm	0.1524 ppm	0.0611 ppm	0.0412 ppm	-0.0027 ppm
Concentration per Run 2	26.4739 ppm	5.1239 ppm	0.0018 ppm	0.1468 ppm	0.0603 ppm	0.0418 ppm	0.0016 ppm
Concentration per Run 3	26.1851 ppm	5.1403 ppm	0.0022 ppm	0.1499 ppm	0.0604 ppm	0.0414 ppm	0.0006 ppm
Concentration RSD	1.1 %	0.2 %	13.6 %	1.9 %	0.8 %	0.8 %	1,392.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	0.7255 ppm	0.0004 ppm	3.9883 ppm	0.0241 ppm	-0.0012 ppm	0.0137 ppm
Concentration per Run 1	-0.0015 ppm	0.7352 ppm	0.0009 ppm	3.9578 ppm	0.0241 ppm	-0.0022 ppm	0.0137 ppm
Concentration per Run 2	0.0008 ppm	0.7223 ppm	0.0002 ppm	4.0103 ppm	0.0239 ppm	-0.0001 ppm	0.0137 ppm
Concentration per Run 3	-0.0027 ppm	0.7190 ppm	0.0003 ppm	3.9970 ppm	0.0243 ppm	-0.0013 ppm	0.0137 ppm
Concentration RSD	155.4 %	1.2 %	81.3 %	0.7 %	0.9 %	88.8 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1384 ppm	92.5885 %	107.1434 %	85.8389 %	97.8432 %	115.4938 %	97.7733 %
Concentration per Run 1	0.1406 ppm	91.4594 %	107.6668 %	85.7516 %	97.0455 %	116.1574 %	97.6865 %
Concentration per Run 2	0.1375 ppm	92.4721 %	106.5892 %	85.7064 %	97.3656 %	114.6964 %	97.8322 %
Concentration per Run 3	0.1372 ppm	93.8341 %	107.1742 %	86.0588 %	99.1186 %	115.6275 %	97.8011 %
Concentration RSD	1.4 %	1.3 %	0.5 %	0.2 %	1.1 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: L2453613-13d40 WG1975357
Analysis started at: 9/26/2024 11:11:36 PM
Rack 3
Vial 49
Comment Mn ONLY

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	2.0843 ppm	0.0023 ppm	0.0008 ppm	0.2235 ppm	0.0001 ppm	2.5223 ppm
Concentration per Run 1	-0.0003 ppm	1.9648 ppm	0.0022 ppm	0.0009 ppm	0.2107 ppm	0.0001 ppm	2.3908 ppm
Concentration per Run 2	-0.0001 ppm	2.1459 ppm	0.0037 ppm	0.0003 ppm	0.2303 ppm	0.0001 ppm	2.5900 ppm
Concentration per Run 3	0.0001 ppm	2.1423 ppm	0.0008 ppm	0.0013 ppm	0.2295 ppm	0.0001 ppm	2.5861 ppm
Concentration RSD	149.5 %	5.0 %	63.0 %	58.1 %	5.0 %	21.3 %	4.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0056 ppm	0.0038 ppm	0.0043 ppm	4.4589 ppm	0.2040 ppm	0.0057 ppm
Concentration per Run 1	0.0001 ppm	0.0056 ppm	0.0036 ppm	0.0045 ppm	4.1994 ppm	0.1930 ppm	0.0046 ppm
Concentration per Run 2	0.0001 ppm	0.0058 ppm	0.0039 ppm	0.0041 ppm	4.5856 ppm	0.1971 ppm	0.0073 ppm
Concentration per Run 3	0.0003 ppm	0.0054 ppm	0.0038 ppm	0.0043 ppm	4.5917 ppm	0.2220 ppm	0.0052 ppm
Concentration RSD	48.8 %	3.8 %	3.8 %	5.0 %	5.0 %	7.7 %	24.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.9508 ppm	11.6143 ppm	0.0007 ppm	0.0511 ppm	0.0090 ppm	0.0029 ppm	-0.0011 ppm
Concentration per Run 1	0.9633 ppm	10.9725 ppm	0.0005 ppm	0.0474 ppm	0.0095 ppm	0.0031 ppm	-0.0012 ppm
Concentration per Run 2	0.9463 ppm	11.9370 ppm	0.0006 ppm	0.0516 ppm	0.0086 ppm	0.0030 ppm	-0.0007 ppm
Concentration per Run 3	0.9430 ppm	11.9334 ppm	0.0008 ppm	0.0544 ppm	0.0088 ppm	0.0025 ppm	-0.0013 ppm
Concentration RSD	1.1 %	4.8 %	26.1 %	6.9 %	5.2 %	12.0 %	28.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	0.0856 ppm	0.0001 ppm	0.0271 ppm	0.0062 ppm	-0.0041 ppm	0.0074 ppm
Concentration per Run 1	-0.0026 ppm	0.0890 ppm	0.0002 ppm	0.0257 ppm	0.0063 ppm	-0.0043 ppm	0.0073 ppm
Concentration per Run 2	-0.0009 ppm	0.0846 ppm	-0.0002 ppm	0.0279 ppm	0.0061 ppm	-0.0038 ppm	0.0075 ppm
Concentration per Run 3	-0.0020 ppm	0.0832 ppm	0.0005 ppm	0.0276 ppm	0.0060 ppm	-0.0043 ppm	0.0074 ppm
Concentration RSD	46.9 %	3.6 %	236.6 %	4.4 %	2.8 %	7.1 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0158 ppm	95.5308 %	109.2576 %	94.2793 %	95.3362 %	110.6320 %	96.3761 %
Concentration per Run 1	0.0160 ppm	94.3153 %	114.0228 %	94.3884 %	94.9067 %	115.2684 %	96.3965 %
Concentration per Run 2	0.0155 ppm	96.0234 %	107.0165 %	94.1170 %	95.7482 %	108.1267 %	96.2688 %
Concentration per Run 3	0.0157 ppm	96.2536 %	106.7334 %	94.3326 %	95.3536 %	108.5009 %	96.4629 %
Concentration RSD	1.6 %	1.1 %	3.8 %	0.2 %	0.4 %	3.6 %	0.1 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCV
Analysis started at: 9/26/2024 11:17:16 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4939 ppm	0.4876 ppm	0.4716 ppm	0.4785 ppm	0.5103 ppm	0.5060 ppm	0.4896 ppm
Concentration per Run 1	0.4960 ppm	0.4839 ppm	0.4709 ppm	0.4779 ppm	0.5068 ppm	0.5053 ppm	0.4875 ppm
Concentration per Run 2	0.4927 ppm	0.4854 ppm	0.4714 ppm	0.4761 ppm	0.5125 ppm	0.5050 ppm	0.4915 ppm
Concentration per Run 3	0.4929 ppm	0.4934 ppm	0.4725 ppm	0.4815 ppm	0.5116 ppm	0.5075 ppm	0.4897 ppm
Recovery Percentage 1	98.778 %	97.512 %	94.316 %	95.697 %	102.061 %	101.191 %	97.913 %
Concentration RSD	0.4 %	1.1 %	0.2 %	0.6 %	0.6 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4831 ppm	0.4921 ppm	0.4838 ppm	0.4853 ppm	0.5094 ppm	5.2431 ppm	0.4936 ppm
Concentration per Run 1	0.4839 ppm	0.4933 ppm	0.4869 ppm	0.4858 ppm	0.5072 ppm	5.2662 ppm	0.4997 ppm
Concentration per Run 2	0.4823 ppm	0.4916 ppm	0.4812 ppm	0.4870 ppm	0.5109 ppm	5.2244 ppm	0.4847 ppm
Concentration per Run 3	0.4830 ppm	0.4914 ppm	0.4833 ppm	0.4831 ppm	0.5099 ppm	5.2388 ppm	0.4966 ppm
Recovery Percentage 1	96.610 %	98.422 %	96.762 %	97.062 %	101.870 %	104.862 %	98.730 %
Concentration RSD	0.2 %	0.2 %	0.6 %	0.4 %	0.4 %	0.4 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4737 ppm	0.4943 ppm	0.4800 ppm	10.0006 ppm	0.4912 ppm	0.4893 ppm	0.4831 ppm
Concentration per Run 1	0.4748 ppm	0.4929 ppm	0.4787 ppm	9.9515 ppm	0.4921 ppm	0.4881 ppm	0.4854 ppm
Concentration per Run 2	0.4740 ppm	0.4961 ppm	0.4784 ppm	10.0628 ppm	0.4900 ppm	0.4907 ppm	0.4825 ppm
Concentration per Run 3	0.4724 ppm	0.4937 ppm	0.4828 ppm	9.9875 ppm	0.4915 ppm	0.4890 ppm	0.4814 ppm
Recovery Percentage 1	94.743 %	98.850 %	95.996 %	100.006 %	98.240 %	97.857 %	96.621 %
Concentration RSD	0.3 %	0.3 %	0.5 %	0.6 %	0.2 %	0.3 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4884 ppm	5.4338 ppm	0.4602 ppm	0.4789 ppm	0.4904 ppm	0.4852 ppm	0.4875 ppm
Concentration per Run 1	0.4858 ppm	5.4414 ppm	0.4602 ppm	0.4782 ppm	0.4946 ppm	0.4853 ppm	0.4896 ppm
Concentration per Run 2	0.4899 ppm	5.4287 ppm	0.4594 ppm	0.4796 ppm	0.4878 ppm	0.4866 ppm	0.4869 ppm
Concentration per Run 3	0.4897 ppm	5.4313 ppm	0.4609 ppm	0.4789 ppm	0.4887 ppm	0.4837 ppm	0.4860 ppm
Recovery Percentage 1	97.690 %	103.500 %	92.036 %	95.781 %	98.072 %	97.040 %	97.495 %
Concentration RSD	0.5 %	0.1 %	0.2 %	0.1 %	0.8 %	0.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4790 ppm	98.8216 %	107.0041 %	95.7255 %	95.6486 %	105.3724 %	95.9486 %
Concentration per Run 1	0.4811 ppm	98.9802 %	108.1193 %	95.9000 %	95.7372 %	106.4354 %	96.2158 %
Concentration per Run 2	0.4771 ppm	98.8559 %	105.7245 %	95.7528 %	95.7063 %	104.1930 %	95.7118 %
Concentration per Run 3	0.4787 ppm	98.6287 %	107.1685 %	95.5236 %	95.5022 %	105.4890 %	95.9182 %
Recovery Percentage 1	95.790 %						
Concentration RSD	0.4 %	0.2 %	1.1 %	0.2 %	0.1 %	1.1 %	0.3 %

iCAP Pro Trace 8 Data report

9/26/2024 11:32:19 PM

LabBook: WG1976444_09262024T8_B.imexp

Sample: CCB
Analysis started at: 9/26/2024 11:21:17 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0035 ppm	-0.0006 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0034 ppm
Concentration per Run 1	0.0002 ppm	0.0074 ppm	-0.0010 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 2	0.0005 ppm	0.0018 ppm	-0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0039 ppm
Concentration per Run 3	0.0002 ppm	0.0012 ppm	-0.0008 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0033 ppm
Recovery Percentage 1	4.617 %	3.463 %	-20.167 %	1.674 %	0.884 %	0.255 %	3.397 %
Concentration RSD	55.4 %	98.8 %	78.4 %	63.8 %	118.9 %	166.0 %	14.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0016 ppm	0.0038 ppm	0.0178 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0018 ppm	0.0035 ppm	0.0436 ppm	0.0014 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0015 ppm	0.0029 ppm	-0.0042 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0016 ppm	0.0050 ppm	0.0139 ppm	0.0015 ppm
Recovery Percentage 1	0.673 %	-0.440 %	3.468 %	15.956 %	7.588 %	0.710 %	11.189 %
Concentration RSD	230.9 %	367.6 %	67.2 %	9.6 %	28.1 %	135.8 %	53.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0015 ppm	0.0065 ppm	0.0004 ppm	-0.0009 ppm	-0.0010 ppm
Concentration per Run 1	-0.0005 ppm	0.0001 ppm	0.0019 ppm	0.0051 ppm	0.0005 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0013 ppm	0.0089 ppm	0.0002 ppm	-0.0017 ppm	-0.0023 ppm
Concentration per Run 3	0.0003 ppm	0.0000 ppm	0.0015 ppm	0.0054 ppm	0.0006 ppm	0.0000 ppm	-0.0008 ppm
Recovery Percentage 1	-0.054 %	0.738 %	3.072 %	0.323 %	1.780 %	-8.847 %	-2.018 %
Concentration RSD	786.7 %	48.7 %	21.1 %	32.4 %	40.7 %	100.1 %	115.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	-0.0051 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 1	0.0017 ppm	-0.0042 ppm	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0013 ppm	0.0001 ppm
Concentration per Run 2	0.0025 ppm	-0.0066 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 3	-0.0013 ppm	-0.0045 ppm	0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0008 ppm	0.0001 ppm
Recovery Percentage 1	9.642 %	-1.018 %	0.118 %	-0.593 %	0.852 %	2.988 %	1.309 %
Concentration RSD	208.6 %	25.8 %	532.2 %	131.0 %	318.8 %	129.2 %	50.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	93.9127 %	104.6767 %	93.5656 %	95.4972 %	105.5182 %	95.6082 %
Concentration per Run 1	0.0001 ppm	92.7269 %	104.8352 %	93.4653 %	95.1015 %	105.9938 %	95.9188 %
Concentration per Run 2	0.0003 ppm	94.2122 %	103.9398 %	93.4944 %	95.5983 %	105.1207 %	95.5821 %
Concentration per Run 3	0.0002 ppm	94.7992 %	105.2553 %	93.7371 %	95.7918 %	105.4400 %	95.3237 %
Recovery Percentage 1	4.057 %						
Concentration RSD	38.0 %	1.1 %	0.6 %	0.2 %	0.4 %	0.4 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: Blank JMF Trace4
Analysis started at: 9/26/2024 8:57:09 AM
Comments <Comment>
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.8 %	0.8 %	0.7 %	0.3 %	0.1 %	-0.5 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.9 %	-0.3 %	0.4 %	0.0 %	4.1 %	-0.3 %	0.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.7 %	1.1 %	0.3 %	-3.1 %	-0.2 %	-0.3 %	-0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.1 %	0.0 %	0.2 %	-0.1 %	-0.4 %	-0.2 %	-0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	-5.3 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: ICAL
Analysis started at: 9/26/2024 9:03:33 AM
Comments <Comment>
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0033 ppm	24.6286 ppm	0.9996 ppm	0.9974 ppm	0.9853 ppm	0.9848 ppm	9.8878 ppm
Concentration per Run 2	1.0002 ppm	25.0786 ppm	0.9968 ppm	0.9999 ppm	1.0033 ppm	1.0028 ppm	10.0053 ppm
Concentration per Run 3	0.9965 ppm	25.2928 ppm	1.0036 ppm	1.0028 ppm	1.0114 ppm	1.0124 ppm	10.1069 ppm
Concentration RSD	0.3 %	1.4 %	0.3 %	0.3 %	1.3 %	1.4 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0011 ppm	0.9969 ppm	1.0008 ppm	1.0043 ppm	24.6040 ppm	34.4843 ppm	0.9861 ppm
Concentration per Run 2	0.9951 ppm	0.9983 ppm	0.9981 ppm	1.0017 ppm	25.0667 ppm	35.2764 ppm	1.0038 ppm
Concentration per Run 3	1.0038 ppm	1.0048 ppm	1.0011 ppm	0.9941 ppm	25.3293 ppm	35.2392 ppm	1.0101 ppm
Concentration RSD	0.4 %	0.4 %	0.2 %	0.5 %	1.5 %	1.3 %	1.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9880 ppm	0.9894 ppm	0.9957 ppm	24.5914 ppm	0.9961 ppm	0.9979 ppm	0.9948 ppm
Concentration per Run 2	9.9848 ppm	1.0021 ppm	0.9979 ppm	25.1481 ppm	0.9969 ppm	0.9968 ppm	1.0012 ppm
Concentration per Run 3	10.0272 ppm	1.0084 ppm	1.0063 ppm	25.2604 ppm	1.0070 ppm	1.0053 ppm	1.0040 ppm
Concentration RSD	0.2 %	1.0 %	0.6 %	1.4 %	0.6 %	0.5 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9967 ppm	9.9495 ppm	0.9997 ppm	0.9853 ppm	1.0022 ppm	0.9962 ppm	1.0020 ppm
Concentration per Run 2	0.9950 ppm	9.9903 ppm	0.9975 ppm	1.0038 ppm	0.9983 ppm	0.9976 ppm	0.9990 ppm
Concentration per Run 3	1.0084 ppm	10.0602 ppm	1.0028 ppm	1.0109 ppm	0.9995 ppm	1.0062 ppm	0.9991 ppm
Concentration RSD	0.7 %	0.6 %	0.3 %	1.3 %	0.2 %	0.5 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.0000 ppm	98.1727 %	95.7535 %	95.7464 %	96.4266 %	84.2412 %	95.4145 %
Concentration per Run 1	1.0001 ppm	98.4675 %	95.9093 %	96.4098 %	97.9021 %	84.9635 %	95.2889 %
Concentration per Run 2	0.9930 ppm	98.2930 %	95.7213 %	95.6710 %	96.3588 %	84.1639 %	95.4480 %
Concentration per Run 3	1.0068 ppm	97.7576 %	95.6298 %	95.1584 %	95.0191 %	83.5963 %	95.5067 %
Concentration RSD	0.7 %	0.4 %	0.1 %	0.7 %	1.5 %	0.8 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: ICV
Analysis started at: 9/26/2024 9:09:32 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4967 ppm	0.4981 ppm	0.4928 ppm	0.4982 ppm	0.4941 ppm	0.5063 ppm	0.5010 ppm
Concentration per Run 1	0.4982 ppm	0.4906 ppm	0.4924 ppm	0.4987 ppm	0.4829 ppm	0.4940 ppm	0.4883 ppm
Concentration per Run 2	0.4957 ppm	0.4939 ppm	0.4933 ppm	0.4979 ppm	0.4939 ppm	0.5072 ppm	0.5033 ppm
Concentration per Run 3	0.4963 ppm	0.5097 ppm	0.4928 ppm	0.4980 ppm	0.5054 ppm	0.5177 ppm	0.5113 ppm
Recovery Percentage 1	99.348 %	99.611 %	98.565 %	99.640 %	98.817 %	101.260 %	100.193 %
Concentration RSD	0.3 %	2.0 %	0.1 %	0.1 %	2.3 %	2.4 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4996 ppm	0.4786 ppm	0.4930 ppm	0.4809 ppm	0.5053 ppm	5.1557 ppm	0.4851 ppm
Concentration per Run 1	0.4991 ppm	0.4789 ppm	0.4954 ppm	0.4815 ppm	0.4938 ppm	5.0603 ppm	0.4747 ppm
Concentration per Run 2	0.4994 ppm	0.4791 ppm	0.4915 ppm	0.4801 ppm	0.5068 ppm	5.1386 ppm	0.4849 ppm
Concentration per Run 3	0.5002 ppm	0.4779 ppm	0.4920 ppm	0.4812 ppm	0.5152 ppm	5.2682 ppm	0.4955 ppm
Recovery Percentage 1	99.913 %	95.728 %	98.593 %	96.188 %	101.054 %	103.113 %	97.014 %
Concentration RSD	0.1 %	0.1 %	0.4 %	0.1 %	2.1 %	2.0 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4983 ppm	0.4982 ppm	0.4934 ppm	9.7790 ppm	0.4788 ppm	0.4836 ppm	0.4775 ppm
Concentration per Run 1	0.5003 ppm	0.4834 ppm	0.4932 ppm	9.6329 ppm	0.4796 ppm	0.4852 ppm	0.4794 ppm
Concentration per Run 2	0.4992 ppm	0.4991 ppm	0.4949 ppm	9.7211 ppm	0.4787 ppm	0.4826 ppm	0.4769 ppm
Concentration per Run 3	0.4954 ppm	0.5122 ppm	0.4920 ppm	9.9830 ppm	0.4783 ppm	0.4830 ppm	0.4762 ppm
Recovery Percentage 1	99.664 %	99.647 %	98.672 %	97.790 %	95.769 %	96.721 %	95.497 %
Concentration RSD	0.5 %	2.9 %	0.3 %	1.9 %	0.1 %	0.3 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5026 ppm	5.2531 ppm	0.4896 ppm	0.4748 ppm	0.4979 ppm	0.4963 ppm	0.4881 ppm
Concentration per Run 1	0.5034 ppm	5.2630 ppm	0.4907 ppm	0.4634 ppm	0.4994 ppm	0.4981 ppm	0.4897 ppm
Concentration per Run 2	0.5020 ppm	5.2484 ppm	0.4895 ppm	0.4750 ppm	0.4969 ppm	0.4964 ppm	0.4876 ppm
Concentration per Run 3	0.5023 ppm	5.2477 ppm	0.4885 ppm	0.4859 ppm	0.4976 ppm	0.4945 ppm	0.4871 ppm
Recovery Percentage 1	100.518 %	100.058 %	97.915 %	94.953 %	99.589 %	99.265 %	97.629 %
Concentration RSD	0.2 %	0.2 %	0.2 %	2.4 %	0.3 %	0.4 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4743 ppm	98.4862 %	97.9867 %	99.1245 %	97.5583 %	93.0357 %	98.6369 %
Concentration per Run 1	0.4742 ppm	100.0838 %	98.2883 %	99.3565 %	100.5437 %	93.1592 %	98.6032 %
Concentration per Run 2	0.4738 ppm	98.9318 %	97.7071 %	99.1265 %	97.5126 %	93.0574 %	98.6880 %
Concentration per Run 3	0.4749 ppm	96.4431 %	97.9647 %	98.8903 %	94.6185 %	92.8906 %	98.6194 %
Recovery Percentage 1	94.854 %						
Concentration RSD	0.1 %	1.9 %	0.3 %	0.2 %	3.0 %	0.1 %	0.0 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: ICB
Analysis started at: 9/26/2024 9:15:35 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0010 ppm	0.0000 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 1	-0.0002 ppm	0.0002 ppm	0.0012 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 2	0.0002 ppm	-0.0027 ppm	-0.0004 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0035 ppm
Concentration per Run 3	0.0002 ppm	-0.0004 ppm	-0.0007 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	0.876 %	-0.989 %	0.759 %	3.598 %	0.112 %	0.133 %	-0.930 %
Concentration RSD	381.6 %	153.1 %	2,622.7 %	17.1 %	457.5 %	380.6 %	246.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0015 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0013 ppm	0.0038 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0045 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0003 ppm	-0.0038 ppm	-0.0001 ppm
Recovery Percentage 1	-0.471 %	-0.314 %	0.064 %	-1.172 %	1.165 %	0.059 %	1.002 %
Concentration RSD	64.4 %	212.5 %	892.7 %	48.8 %	108.9 %	312.3 %	417.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0013 ppm	0.0000 ppm	0.0002 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	-0.0015 ppm	0.0000 ppm	0.0002 ppm	-0.0018 ppm	-0.0001 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 2	-0.0012 ppm	-0.0001 ppm	0.0003 ppm	0.0018 ppm	-0.0001 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 3	-0.0011 ppm	0.0000 ppm	0.0001 ppm	-0.0013 ppm	-0.0002 ppm	0.0002 ppm	-0.0002 ppm
Recovery Percentage 1	-1.258 %	-0.104 %	0.390 %	-0.022 %	-0.528 %	0.038 %	-0.152 %
Concentration RSD	16.0 %	760.1 %	65.3 %	449.4 %	54.4 %	5,601.4 %	347.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0011 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	0.0014 ppm	-0.0004 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0012 ppm	-0.0003 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 3	0.0007 ppm	-0.0007 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0002 ppm
Recovery Percentage 1	11.198 %	-0.097 %	0.004 %	0.512 %	0.130 %	-1.294 %	0.907 %
Concentration RSD	34.7 %	41.1 %	16,009.8 %	34.7 %	1,452.1 %	54.9 %	171.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	99.7641 %	99.5327 %	100.4516 %	98.2862 %	98.9474 %	99.0228 %
Concentration per Run 1	0.0000 ppm	99.6889 %	99.7677 %	100.7046 %	100.3649 %	99.4458 %	99.0940 %
Concentration per Run 2	0.0000 ppm	99.7836 %	99.3229 %	100.7816 %	97.4913 %	99.3140 %	99.5352 %
Concentration per Run 3	-0.0001 ppm	99.8198 %	99.5076 %	99.8687 %	97.0026 %	98.0824 %	98.4392 %
Recovery Percentage 1	-0.677 %						
Concentration RSD	122.0 %	0.1 %	0.2 %	0.5 %	1.8 %	0.8 %	0.6 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: LLOQ
Analysis started at: 9/26/2024 9:22:51 AM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0053 ppm	0.1003 ppm	0.0042 ppm	0.0323 ppm	0.0101 ppm	0.0050 ppm	0.1081 ppm
Concentration per Run 1	0.0053 ppm	0.0977 ppm	0.0043 ppm	0.0322 ppm	0.0097 ppm	0.0049 ppm	0.1043 ppm
Concentration per Run 2	0.0055 ppm	0.1039 ppm	0.0038 ppm	0.0323 ppm	0.0104 ppm	0.0051 ppm	0.1101 ppm
Concentration per Run 3	0.0052 ppm	0.0991 ppm	0.0045 ppm	0.0323 ppm	0.0102 ppm	0.0051 ppm	0.1100 ppm
Recovery Percentage 1	106.485 %	100.259 %	84.522 %	107.589 %	100.864 %	100.382 %	108.124 %
Concentration RSD	3.3 %	3.3 %	8.5 %	0.2 %	3.8 %	2.2 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0042 ppm	0.0191 ppm	0.0100 ppm	0.0103 ppm	0.0522 ppm	2.5317 ppm	0.0099 ppm
Concentration per Run 1	0.0042 ppm	0.0192 ppm	0.0099 ppm	0.0101 ppm	0.0501 ppm	2.4157 ppm	0.0096 ppm
Concentration per Run 2	0.0043 ppm	0.0193 ppm	0.0100 ppm	0.0104 ppm	0.0529 ppm	2.6089 ppm	0.0099 ppm
Concentration per Run 3	0.0042 ppm	0.0189 ppm	0.0101 ppm	0.0103 ppm	0.0537 ppm	2.5704 ppm	0.0102 ppm
Recovery Percentage 1	105.464 %	95.620 %	99.820 %	102.538 %	104.467 %	101.266 %	98.957 %
Concentration RSD	0.8 %	1.2 %	1.1 %	1.4 %	3.7 %	4.0 %	2.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1058 ppm	0.0104 ppm	0.0513 ppm	1.9689 ppm	0.0190 ppm	0.0093 ppm	0.0485 ppm
Concentration per Run 1	0.1052 ppm	0.0101 ppm	0.0514 ppm	1.8808 ppm	0.0191 ppm	0.0088 ppm	0.0482 ppm
Concentration per Run 2	0.1067 ppm	0.0105 ppm	0.0511 ppm	2.0251 ppm	0.0192 ppm	0.0096 ppm	0.0479 ppm
Concentration per Run 3	0.1056 ppm	0.0107 ppm	0.0515 ppm	2.0009 ppm	0.0186 ppm	0.0096 ppm	0.0495 ppm
Recovery Percentage 1	105.814 %	104.420 %	102.627 %	98.446 %	94.900 %	93.147 %	96.994 %
Concentration RSD	0.7 %	3.2 %	0.4 %	3.9 %	1.6 %	4.8 %	1.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0104 ppm	0.5113 ppm	0.0518 ppm	0.0098 ppm	0.0518 ppm	0.0195 ppm	0.0104 ppm
Concentration per Run 1	0.0096 ppm	0.5120 ppm	0.0521 ppm	0.0094 ppm	0.0518 ppm	0.0194 ppm	0.0103 ppm
Concentration per Run 2	0.0110 ppm	0.5128 ppm	0.0514 ppm	0.0099 ppm	0.0518 ppm	0.0202 ppm	0.0104 ppm
Concentration per Run 3	0.0105 ppm	0.5092 ppm	0.0519 ppm	0.0100 ppm	0.0518 ppm	0.0188 ppm	0.0106 ppm
Recovery Percentage 1	103.605 %	102.268 %	103.552 %	97.618 %	103.636 %	97.397 %	104.183 %
Concentration RSD	6.8 %	0.4 %	0.7 %	3.4 %	0.0 %	3.7 %	1.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0054 ppm	100.3937 %	99.5496 %	100.6078 %	99.5455 %	96.2852 %	99.3906 %
Concentration per Run 1	0.0053 ppm	101.0356 %	99.4497 %	100.6569 %	102.9915 %	95.7907 %	99.5305 %
Concentration per Run 2	0.0054 ppm	100.6221 %	99.3529 %	100.3604 %	98.2016 %	95.2635 %	98.7801 %
Concentration per Run 3	0.0054 ppm	99.5234 %	99.8462 %	100.8062 %	97.4435 %	97.8016 %	99.8612 %
Recovery Percentage 1	107.022 %						
Concentration RSD	1.1 %	0.8 %	0.3 %	0.2 %	3.0 %	1.4 %	0.6 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: ICSA
Analysis started at: 9/26/2024 9:30:50 AM
Comments <Comment>
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0011 ppm	522.6485 [SIC 500]	-0.0040 ppm	0.0047 ppm	0.0008 ppm	-0.0004 ppm	562.6139 ppm
Concentration per Run 1	0.0013 ppm	526.3930 ppm	-0.0044 ppm	0.0043 ppm	0.0008 ppm	-0.0004 ppm	567.1777 ppm
Concentration per Run 2	0.0011 ppm	514.0626 ppm	-0.0025 ppm	0.0043 ppm	0.0007 ppm	-0.0005 ppm	564.1241 ppm
Concentration per Run 3	0.0008 ppm	527.4898 ppm	-0.0049 ppm	0.0056 ppm	0.0008 ppm	-0.0004 ppm	556.5399 ppm
Recovery Percentage 1	15.441 %	522,648.476 %	-79.046 %	15.795 %	7.631 %	-8.625 %	562,613.893 %
Concentration RSD	22.9 %	1.4 %	31.3 %	16.3 %	5.4 %	5.2 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0024 ppm	0.0011 ppm	0.0018 ppm	0.0009 ppm	184.8283 ppm	0.0264 ppm	-0.0064 ppm
Concentration per Run 1	-0.0024 ppm	0.0008 ppm	0.0018 ppm	0.0009 ppm	186.2631 ppm	0.0305 ppm	-0.0061 ppm
Concentration per Run 2	-0.0024 ppm	0.0011 ppm	0.0018 ppm	0.0010 ppm	184.9547 ppm	0.0173 ppm	-0.0067 ppm
Concentration per Run 3	-0.0023 ppm	0.0015 ppm	0.0018 ppm	0.0007 ppm	183.2671 ppm	0.0312 ppm	-0.0064 ppm
Recovery Percentage 1	-59.008 %	5.703 %	18.071 %	8.595 %	369,656.589 %	1.054 %	-63.993 %
Concentration RSD	2.3 %	30.7 %	0.8 %	19.2 %	0.8 %	29.8 %	4.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	442.4662 ppm	0.0019 ppm	-0.0006 ppm	0.0217 ppm	0.0121 ppm	0.0047 ppm	-0.0190 ppm
Concentration per Run 1	440.6372 ppm	0.0020 ppm	-0.0005 ppm	0.0213 ppm	0.0122 ppm	0.0054 ppm	-0.0202 ppm
Concentration per Run 2	446.4244 ppm	0.0018 ppm	-0.0005 ppm	0.0239 ppm	0.0121 ppm	0.0019 ppm	-0.0202 ppm
Concentration per Run 3	440.3370 ppm	0.0020 ppm	-0.0008 ppm	0.0198 ppm	0.0120 ppm	0.0068 ppm	-0.0167 ppm
Recovery Percentage 1	442,466.180 %	19.455 %	-1.218 %	1.083 %	48.411 %	46.940 %	-38.039 %
Concentration RSD	0.8 %	7.6 %	30.6 %	9.6 %	1.0 %	53.2 %	10.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0011 ppm	0.0020 ppm	0.0027 ppm	0.0000 ppm	-0.0050 ppm	-0.0014 ppm	-0.0029 ppm
Concentration per Run 1	0.0048 ppm	0.0024 ppm	0.0037 ppm	0.0000 ppm	-0.0049 ppm	-0.0012 ppm	-0.0030 ppm
Concentration per Run 2	-0.0030 ppm	0.0017 ppm	0.0026 ppm	0.0000 ppm	-0.0051 ppm	-0.0019 ppm	-0.0032 ppm
Concentration per Run 3	0.0016 ppm	0.0020 ppm	0.0017 ppm	0.0001 ppm	-0.0049 ppm	-0.0012 ppm	-0.0026 ppm
Recovery Percentage 1	11.440 %	0.404 %	5.376 %	0.335 %	-49.687 %	-7.210 %	-29.186 %
Concentration RSD	344.0 %	18.0 %	36.6 %	135.6 %	2.5 %	28.3 %	9.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0026 ppm	90.7558 %	82.4094 %	82.6484 %	87.9316 %	58.6483 %	81.3462 %
Concentration per Run 1	-0.0025 ppm	91.0640 %	82.5612 %	83.0897 %	87.6930 %	58.9937 %	81.4636 %
Concentration per Run 2	-0.0030 ppm	90.5707 %	82.2918 %	82.6190 %	88.2536 %	58.9092 %	81.4941 %
Concentration per Run 3	-0.0022 ppm	90.6326 %	82.3753 %	82.2366 %	87.8482 %	58.0421 %	81.0807 %
Recovery Percentage 1	-51.347 %						
Concentration RSD	15.1 %	0.3 %	0.2 %	0.5 %	0.3 %	0.9 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 400 Fe pass _IEC -Pb -Zn
Analysis started at: 9/26/2024 9:39:51 AM
Comments <Comment>
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	-0.0019 ppm	0.0017 ppm	0.0010 ppm	0.0004 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	-0.0007 ppm	0.0010 ppm	0.0019 ppm	0.0009 ppm	0.0004 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 2	-0.0007 ppm	-0.0029 ppm	0.0024 ppm	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 3	-0.0004 ppm	-0.0036 ppm	0.0009 ppm	0.0009 ppm	0.0005 ppm	0.0000 ppm	0.0003 ppm
Concentration RSD	31.3 %	134.3 %	45.2 %	10.3 %	9.5 %	138.5 %	594.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0016 ppm	0.0004 ppm	0.0020 ppm	0.0024 ppm	370.1972 ppm	0.0165 ppm	-0.0001 ppm
Concentration per Run 1	0.0017 ppm	0.0001 ppm	0.0020 ppm	0.0023 ppm	364.3673 ppm	0.0205 ppm	0.0000 ppm
Concentration per Run 2	0.0016 ppm	0.0007 ppm	0.0022 ppm	0.0027 ppm	375.7548 ppm	0.0076 ppm	0.0002 ppm
Concentration per Run 3	0.0016 ppm	0.0005 ppm	0.0019 ppm	0.0023 ppm	370.4695 ppm	0.0215 ppm	-0.0004 ppm
Concentration RSD	4.5 %	64.6 %	9.7 %	8.8 %	1.5 %	46.8 %	379.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0239 ppm	0.0003 ppm	-0.0030 ppm	0.0050 ppm	0.0262 ppm	-0.0001 ppm	-0.0170 ppm
Concentration per Run 1	-0.0243 ppm	0.0003 ppm	-0.0029 ppm	0.0042 ppm	0.0257 ppm	-0.0002 ppm	-0.0174 ppm
Concentration per Run 2	-0.0234 ppm	0.0002 ppm	-0.0030 ppm	0.0071 ppm	0.0258 ppm	0.0003 ppm	-0.0163 ppm
Concentration per Run 3	-0.0241 ppm	0.0005 ppm	-0.0030 ppm	0.0039 ppm	0.0270 ppm	-0.0003 ppm	-0.0173 ppm
Concentration RSD	2.0 %	35.3 %	2.2 %	34.9 %	2.6 %	406.8 %	3.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0015 ppm	0.0023 ppm	0.0015 ppm	0.0003 ppm	-0.0004 ppm	-0.0001 ppm	-0.0040 ppm
Concentration per Run 1	-0.0033 ppm	0.0023 ppm	0.0012 ppm	0.0003 ppm	-0.0003 ppm	0.0007 ppm	-0.0040 ppm
Concentration per Run 2	-0.0001 ppm	0.0023 ppm	0.0013 ppm	0.0003 ppm	-0.0004 ppm	-0.0005 ppm	-0.0039 ppm
Concentration per Run 3	-0.0013 ppm	0.0024 ppm	0.0021 ppm	0.0003 ppm	-0.0004 ppm	-0.0005 ppm	-0.0039 ppm
Concentration RSD	106.0 %	2.6 %	34.2 %	4.3 %	18.8 %	984.6 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	98.4266 %	95.4673 %	94.7441 %	95.5467 %	82.7173 %	95.5556 %
Concentration per Run 1	0.0001 ppm	98.5076 %	95.6511 %	95.0624 %	96.6850 %	82.9486 %	95.5279 %
Concentration per Run 2	-0.0001 ppm	98.1881 %	95.3865 %	94.8065 %	94.5151 %	82.9242 %	95.9413 %
Concentration per Run 3	-0.0001 ppm	98.5840 %	95.3644 %	94.3634 %	95.4401 %	82.2791 %	95.1977 %
Concentration RSD	1,191.9 %	0.2 %	0.2 %	0.4 %	1.1 %	0.5 %	0.4 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 800 Ca pass
Analysis started at: 9/26/2024 9:46:19 AM
Comments <Comment>
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0252 ppm	-0.0042 ppm	0.0035 ppm	0.0008 ppm	-0.0006 ppm	753.6088 ppm
Concentration per Run 1	0.0002 ppm	0.0210 ppm	-0.0044 ppm	0.0036 ppm	0.0008 ppm	-0.0006 ppm	748.8689 ppm
Concentration per Run 2	0.0003 ppm	0.0293 ppm	-0.0040 ppm	0.0032 ppm	0.0007 ppm	-0.0006 ppm	753.5733 ppm
Concentration per Run 3	0.0002 ppm	0.0254 ppm	-0.0043 ppm	0.0037 ppm	0.0008 ppm	-0.0006 ppm	758.3843 ppm
Concentration RSD	32.3 %	16.5 %	4.1 %	6.6 %	5.4 %	2.3 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0022 ppm	-0.0002 ppm	0.0005 ppm	0.0014 ppm	0.0076 ppm	0.0109 ppm	-0.0041 ppm
Concentration per Run 1	-0.0023 ppm	-0.0002 ppm	0.0002 ppm	0.0014 ppm	0.0094 ppm	0.0152 ppm	-0.0040 ppm
Concentration per Run 2	-0.0022 ppm	-0.0001 ppm	0.0008 ppm	0.0013 ppm	0.0062 ppm	-0.0054 ppm	-0.0042 ppm
Concentration per Run 3	-0.0022 ppm	-0.0002 ppm	0.0006 ppm	0.0015 ppm	0.0073 ppm	0.0231 ppm	-0.0042 ppm
Concentration RSD	1.8 %	58.7 %	54.0 %	4.4 %	21.4 %	134.4 %	3.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0061 ppm	0.0004 ppm	0.0003 ppm	0.0189 ppm	-0.0004 ppm	0.0008 ppm	0.0102 ppm
Concentration per Run 1	-0.0044 ppm	0.0002 ppm	0.0003 ppm	0.0195 ppm	-0.0005 ppm	0.0004 ppm	0.0104 ppm
Concentration per Run 2	-0.0053 ppm	0.0005 ppm	0.0002 ppm	0.0175 ppm	-0.0007 ppm	0.0015 ppm	0.0097 ppm
Concentration per Run 3	-0.0086 ppm	0.0006 ppm	0.0004 ppm	0.0198 ppm	-0.0001 ppm	0.0005 ppm	0.0105 ppm
Concentration RSD	36.4 %	37.8 %	41.7 %	6.7 %	68.3 %	78.0 %	4.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0032 ppm	0.0181 ppm	0.0007 ppm	-0.0003 ppm	-0.0076 ppm	-0.0011 ppm	0.0007 ppm
Concentration per Run 1	0.0043 ppm	0.0174 ppm	0.0006 ppm	-0.0004 ppm	-0.0078 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 2	0.0029 ppm	0.0189 ppm	0.0009 ppm	-0.0003 ppm	-0.0075 ppm	-0.0032 ppm	0.0006 ppm
Concentration per Run 3	0.0023 ppm	0.0180 ppm	0.0006 ppm	-0.0004 ppm	-0.0074 ppm	-0.0001 ppm	0.0007 ppm
Concentration RSD	31.4 %	4.3 %	26.5 %	11.9 %	2.7 %	172.4 %	9.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0009 ppm	92.6029 %	84.9458 %	84.0045 %	90.6201 %	66.0742 %	84.1424 %
Concentration per Run 1	-0.0010 ppm	93.1328 %	85.1093 %	83.9027 %	91.9174 %	65.9661 %	83.9542 %
Concentration per Run 2	-0.0010 ppm	92.4866 %	84.6487 %	84.1592 %	90.4751 %	66.2003 %	84.5195 %
Concentration per Run 3	-0.0006 ppm	92.1895 %	85.0795 %	83.9515 %	89.4679 %	66.0560 %	83.9536 %
Concentration RSD	23.8 %	0.5 %	0.3 %	0.2 %	1.4 %	0.2 %	0.4 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 500 Ca pass
Analysis started at: 9/26/2024 9:52:47 AM
Comments <Comment>
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0103 ppm	-0.0029 ppm	0.0025 ppm	0.0005 ppm	-0.0004 ppm	483.5934 ppm
Concentration per Run 1	0.0005 ppm	0.0090 ppm	-0.0051 ppm	0.0024 ppm	0.0005 ppm	-0.0004 ppm	475.9062 ppm
Concentration per Run 2	0.0001 ppm	0.0127 ppm	-0.0014 ppm	0.0025 ppm	0.0005 ppm	-0.0004 ppm	487.7257 ppm
Concentration per Run 3	0.0000 ppm	0.0093 ppm	-0.0023 ppm	0.0027 ppm	0.0005 ppm	-0.0004 ppm	487.1483 ppm
Concentration RSD	146.3 %	20.3 %	66.0 %	5.2 %	2.0 %	6.7 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0014 ppm	-0.0001 ppm	0.0005 ppm	0.0012 ppm	0.0027 ppm	0.0076 ppm	-0.0029 ppm
Concentration per Run 1	-0.0014 ppm	-0.0002 ppm	0.0002 ppm	0.0012 ppm	0.0033 ppm	0.0019 ppm	-0.0032 ppm
Concentration per Run 2	-0.0014 ppm	-0.0001 ppm	0.0006 ppm	0.0012 ppm	0.0027 ppm	0.0331 ppm	-0.0028 ppm
Concentration per Run 3	-0.0014 ppm	0.0000 ppm	0.0006 ppm	0.0011 ppm	0.0020 ppm	-0.0122 ppm	-0.0029 ppm
Concentration RSD	2.4 %	105.0 %	48.3 %	5.1 %	25.0 %	305.0 %	7.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0007 ppm	0.0002 ppm	0.0002 ppm	0.0107 ppm	-0.0004 ppm	-0.0010 ppm	0.0072 ppm
Concentration per Run 1	-0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0101 ppm	-0.0004 ppm	-0.0011 ppm	0.0060 ppm
Concentration per Run 2	-0.0029 ppm	0.0002 ppm	0.0002 ppm	0.0121 ppm	-0.0001 ppm	-0.0011 ppm	0.0084 ppm
Concentration per Run 3	0.0009 ppm	0.0001 ppm	0.0003 ppm	0.0101 ppm	-0.0007 ppm	-0.0008 ppm	0.0072 ppm
Concentration RSD	279.1 %	62.5 %	29.1 %	10.8 %	75.8 %	17.9 %	16.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0002 ppm	0.0125 ppm	0.0006 ppm	-0.0003 ppm	-0.0049 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 1	-0.0013 ppm	0.0120 ppm	0.0007 ppm	-0.0003 ppm	-0.0050 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 2	0.0010 ppm	0.0122 ppm	0.0003 ppm	-0.0004 ppm	-0.0049 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 3	-0.0004 ppm	0.0134 ppm	0.0006 ppm	-0.0003 ppm	-0.0047 ppm	-0.0013 ppm	0.0006 ppm
Concentration RSD	464.7 %	5.9 %	37.8 %	8.3 %	2.7 %	156.8 %	35.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0004 ppm	94.1783 %	87.7285 %	87.1514 %	91.7774 %	71.4215 %	86.6359 %
Concentration per Run 1	-0.0003 ppm	95.1322 %	87.6112 %	86.8294 %	94.0536 %	71.1112 %	86.4455 %
Concentration per Run 2	-0.0005 ppm	93.5530 %	87.8524 %	87.0594 %	90.5719 %	71.3715 %	86.7829 %
Concentration per Run 3	-0.0004 ppm	93.8498 %	87.7220 %	87.5655 %	90.7066 %	71.7817 %	86.6794 %
Concentration RSD	28.1 %	0.9 %	0.1 %	0.4 %	2.1 %	0.5 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 500 Mg pass
Analysis started at: 9/26/2024 9:59:17 AM
Comments <Comment>
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0020 ppm	-0.0016 ppm	0.0008 ppm	0.0005 ppm	0.0000 ppm	0.0227 ppm
Concentration per Run 1	0.0001 ppm	-0.0039 ppm	-0.0028 ppm	0.0007 ppm	0.0004 ppm	0.0000 ppm	0.0227 ppm
Concentration per Run 2	0.0004 ppm	-0.0042 ppm	-0.0017 ppm	0.0010 ppm	0.0005 ppm	0.0000 ppm	0.0271 ppm
Concentration per Run 3	0.0001 ppm	0.0022 ppm	-0.0003 ppm	0.0005 ppm	0.0005 ppm	0.0000 ppm	0.0183 ppm
Concentration RSD	94.9 %	184.3 %	80.8 %	32.0 %	9.7 %	117.8 %	19.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0009 ppm	0.0015 ppm	0.0183 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0009 ppm	0.0007 ppm	0.0334 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0005 ppm	0.0010 ppm	0.0020 ppm	0.0048 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	-0.0005 ppm	0.0007 ppm	0.0017 ppm	0.0166 ppm	0.0002 ppm
Concentration RSD	364.3 %	85.7 %	47.2 %	12.6 %	46.2 %	78.8 %	183.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	502.4442 [SIC 500]	0.0006 ppm	0.0002 ppm	0.0015 ppm	-0.0005 ppm	-0.0012 ppm	-0.0009 ppm
Concentration per Run 1	501.2421 ppm	0.0005 ppm	0.0001 ppm	0.0018 ppm	-0.0007 ppm	-0.0015 ppm	-0.0008 ppm
Concentration per Run 2	512.7550 ppm	0.0007 ppm	0.0001 ppm	0.0016 ppm	-0.0005 ppm	-0.0011 ppm	-0.0011 ppm
Concentration per Run 3	493.3354 ppm	0.0005 ppm	0.0003 ppm	0.0012 ppm	-0.0004 ppm	-0.0011 ppm	-0.0007 ppm
Concentration RSD	1.9 %	22.6 %	60.3 %	20.9 %	26.7 %	17.3 %	23.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0001 ppm	0.0041 ppm	-0.0001 ppm	0.0003 ppm	0.0007 ppm	-0.0009 ppm	-0.0010 ppm
Concentration per Run 1	-0.0002 ppm	0.0044 ppm	-0.0006 ppm	0.0002 ppm	0.0007 ppm	-0.0006 ppm	-0.0007 ppm
Concentration per Run 2	-0.0004 ppm	0.0039 ppm	0.0001 ppm	0.0003 ppm	0.0008 ppm	-0.0013 ppm	-0.0010 ppm
Concentration per Run 3	0.0002 ppm	0.0041 ppm	0.0001 ppm	0.0003 ppm	0.0007 ppm	-0.0009 ppm	-0.0012 ppm
Concentration RSD	255.0 %	6.5 %	388.2 %	16.9 %	9.4 %	37.1 %	24.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	96.2353 %	89.3859 %	88.3648 %	94.3105 %	72.2337 %	87.7203 %
Concentration per Run 1	0.0001 ppm	96.8553 %	89.4382 %	88.7995 %	97.4427 %	72.5372 %	87.7312 %
Concentration per Run 2	0.0002 ppm	95.7542 %	89.5492 %	88.2509 %	92.7954 %	72.2530 %	87.6965 %
Concentration per Run 3	0.0000 ppm	96.0964 %	89.1703 %	88.0442 %	92.6933 %	71.9108 %	87.7331 %
Concentration RSD	96.7 %	0.6 %	0.2 %	0.4 %	2.9 %	0.4 %	0.0 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: SIC Multi
Analysis started at: 9/26/2024 10:22:52 AM
Comments <Comment>
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0027 ppm	0.0074 ppm	-0.0021 ppm	0.0111 ppm	0.0004 ppm	-0.0011 ppm	0.0173 ppm
Concentration per Run 1	0.0026 ppm	0.0075 ppm	-0.0028 ppm	0.0109 ppm	0.0004 ppm	-0.0012 ppm	0.0179 ppm
Concentration per Run 2	0.0027 ppm	0.0077 ppm	-0.0023 ppm	0.0112 ppm	0.0004 ppm	-0.0010 ppm	0.0179 ppm
Concentration per Run 3	0.0028 ppm	0.0071 ppm	-0.0013 ppm	0.0111 ppm	0.0004 ppm	-0.0010 ppm	0.0162 ppm
Recovery Percentage 1	38.525 %	7.438 %	-42.456 %	36.840 %	3.884 %	-21.406 %	17.349 %
Concentration RSD	3.2 %	3.6 %	36.8 %	1.2 %	1.6 %	9.5 %	5.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0008 ppm	0.0006 ppm	19.5864 ppm	-0.0041 ppm	0.0117 ppm	0.0096 ppm	-0.0003 ppm
Concentration per Run 1	-0.0008 ppm	0.0007 ppm	19.5039 ppm	-0.0040 ppm	0.0127 ppm	0.0330 ppm	-0.0006 ppm
Concentration per Run 2	-0.0008 ppm	0.0005 ppm	19.5029 ppm	-0.0041 ppm	0.0120 ppm	-0.0135 ppm	0.0002 ppm
Concentration per Run 3	-0.0008 ppm	0.0005 ppm	19.7525 ppm	-0.0042 ppm	0.0104 ppm	0.0093 ppm	-0.0003 ppm
Recovery Percentage 1	-19.608 %	2.879 %	195,864.027 %	-41.157 %	23.361 %	0.385 %	-2.619 %
Concentration RSD	1.8 %	19.8 %	0.7 %	2.7 %	10.2 %	241.9 %	149.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0233 ppm	20.1330 [SIC 30]	-0.0026 ppm	0.0099 ppm	0.0144 ppm	0.0015 ppm	-0.0009 ppm
Concentration per Run 1	-0.0244 ppm	20.1013 ppm	-0.0027 ppm	0.0118 ppm	0.0144 ppm	0.0011 ppm	0.0000 ppm
Concentration per Run 2	-0.0221 ppm	20.1436 ppm	-0.0026 ppm	0.0097 ppm	0.0146 ppm	0.0016 ppm	-0.0008 ppm
Concentration per Run 3	-0.0234 ppm	20.1539 ppm	-0.0026 ppm	0.0082 ppm	0.0140 ppm	0.0017 ppm	-0.0020 ppm
Recovery Percentage 1	-23.269 %	201,329.698 %	-5.262 %	0.495 %	57.428 %	14.630 %	-1.877 %
Concentration RSD	4.9 %	0.1 %	2.8 %	18.1 %	2.1 %	20.5 %	110.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0009 ppm	0.3489 ppm	-0.0027 ppm	0.0001 ppm	19.8646 ppm	0.0018 ppm	10.1045 [SIC 10]
Concentration per Run 1	-0.0012 ppm	0.3501 ppm	-0.0027 ppm	0.0001 ppm	19.8176 ppm	0.0021 ppm	10.0805 ppm
Concentration per Run 2	0.0000 ppm	0.3480 ppm	-0.0025 ppm	0.0001 ppm	19.9239 ppm	0.0017 ppm	10.1372 ppm
Concentration per Run 3	-0.0016 ppm	0.3486 ppm	-0.0030 ppm	0.0001 ppm	19.8523 ppm	0.0016 ppm	10.0959 ppm
Recovery Percentage 1	-9.389 %	69.780 %	-5.423 %	1.432 %	198,645.854 %	9.146 %	101,045.251 %
Concentration RSD	90.3 %	0.3 %	8.4 %	7.3 %	0.3 %	15.0 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0007 ppm	100.7066 %	99.4338 %	99.4265 %	97.7058 %	94.8871 %	98.3698 %
Concentration per Run 1	0.0004 ppm	101.1911 %	99.7032 %	99.5895 %	97.9265 %	95.0595 %	98.4867 %
Concentration per Run 2	0.0004 ppm	100.4741 %	98.9726 %	99.3752 %	97.3999 %	94.8708 %	98.0984 %
Concentration per Run 3	0.0012 ppm	100.4546 %	99.6255 %	99.3148 %	97.7911 %	94.7309 %	98.5243 %
Recovery Percentage 1	13.656 %						
Concentration RSD	66.4 %	0.4 %	0.4 %	0.1 %	0.3 %	0.2 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: IEC 500 Al -B +Cd +Pb
Analysis started at: 9/26/2024 10:30:52 AM
Comments <Comment>
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0012 ppm	502.1601 [SIC 500]	-0.0046 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0143 ppm
Concentration per Run 1	0.0011 ppm	489.1905 ppm	-0.0040 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0140 ppm
Concentration per Run 2	0.0011 ppm	509.7864 ppm	-0.0026 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0139 ppm
Concentration per Run 3	0.0014 ppm	507.5034 ppm	-0.0072 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0149 ppm
Recovery Percentage 1	17.003 %	502,160.102 %	-91.570 %	-0.008 %	-0.109 %	0.053 %	14.266 %
Concentration RSD	12.2 %	2.2 %	50.8 %	18,974.9 %	317.4 %	893.4 %	4.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0042 ppm	-0.0028 ppm	-0.0023 ppm	-0.0041 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0043 ppm	-0.0028 ppm	-0.0069 ppm	-0.0040 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0041 ppm	-0.0038 ppm	0.0096 ppm	-0.0040 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0004 ppm	-0.0042 ppm	-0.0018 ppm	-0.0095 ppm	-0.0044 ppm
Recovery Percentage 1	0.143 %	0.230 %	2.595 %	-42.160 %	-5.582 %	-0.092 %	-41.445 %
Concentration RSD	836.6 %	148.7 %	33.8 %	2.2 %	34.4 %	451.8 %	5.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0027 ppm	0.0008 ppm	0.0001 ppm	0.0040 ppm	0.0025 ppm	0.0000 ppm	-0.0146 ppm
Concentration per Run 1	-0.0029 ppm	0.0008 ppm	0.0002 ppm	0.0043 ppm	0.0025 ppm	-0.0015 ppm	-0.0148 ppm
Concentration per Run 2	-0.0019 ppm	0.0008 ppm	0.0000 ppm	0.0021 ppm	0.0023 ppm	0.0005 ppm	-0.0140 ppm
Concentration per Run 3	-0.0034 ppm	0.0008 ppm	0.0000 ppm	0.0055 ppm	0.0026 ppm	0.0010 ppm	-0.0150 ppm
Recovery Percentage 1	-2.734 %	7.998 %	0.115 %	0.198 %	9.895 %	-0.068 %	-29.190 %
Concentration RSD	26.8 %	2.7 %	239.0 %	43.7 %	6.0 %	19,094.3 %	3.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0010 ppm	0.0070 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	-0.0019 ppm	-0.0003 ppm
Concentration per Run 1	-0.0031 ppm	0.0058 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0026 ppm	-0.0003 ppm
Concentration per Run 2	0.0009 ppm	0.0085 ppm	0.0012 ppm	0.0000 ppm	0.0004 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 3	-0.0008 ppm	0.0068 ppm	-0.0004 ppm	0.0000 ppm	0.0006 ppm	-0.0029 ppm	-0.0004 ppm
Recovery Percentage 1	-10.268 %	1.409 %	0.497 %	0.141 %	4.343 %	-9.632 %	-3.080 %
Concentration RSD	197.2 %	19.0 %	332.2 %	12.7 %	37.9 %	75.7 %	25.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0002 ppm	96.9485 %	91.3634 %	96.3451 %	95.7109 %	75.0906 %	91.1842 %
Concentration per Run 1	0.0000 ppm	96.9788 %	91.3441 %	97.0067 %	97.8755 %	75.6713 %	91.0883 %
Concentration per Run 2	-0.0004 ppm	97.0000 %	91.4521 %	96.3805 %	94.7460 %	75.1056 %	91.1648 %
Concentration per Run 3	-0.0003 ppm	96.8665 %	91.2940 %	95.6481 %	94.5114 %	74.4950 %	91.2994 %
Recovery Percentage 1	-3.998 %						
Concentration RSD	96.5 %	0.1 %	0.1 %	0.7 %	2.0 %	0.8 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR Check
Analysis started at: 9/26/2024 10:37:18 AM
Comments <Comment>
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0029 ppm	0.1574 ppm	24.0616 ppm	27.2333 [SIC 20]	20.0292 [SIC 20]	5.2001 ppm	0.0235 ppm
Concentration per Run 1	0.0026 ppm	0.1609 ppm	24.0386 ppm	27.1721 ppm	19.8999 ppm	5.2231 ppm	0.0219 ppm
Concentration per Run 2	0.0029 ppm	0.1574 ppm	24.1247 ppm	27.3340 ppm	20.2583 ppm	5.1827 ppm	0.0242 ppm
Concentration per Run 3	0.0032 ppm	0.1539 ppm	24.0214 ppm	27.1940 ppm	19.9296 ppm	5.1944 ppm	0.0243 ppm
Recovery Percentage 1	0.000 %	0.000 %	120.308 %	136.167 %	100.146 %	104.001 %	0.000 %
Concentration RSD	10.3 %	2.2 %	0.2 %	0.3 %	1.0 %	0.4 %	5.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	5.6945 ppm	5.2222 ppm	-0.0001 ppm	20.4567 [SIC 20]	0.0667 ppm	499.5217 ppm	20.3325 ppm
Concentration per Run 1	5.7158 ppm	5.2035 ppm	-0.0002 ppm	20.4468 ppm	0.0680 ppm	501.2420 ppm	19.9135 ppm
Concentration per Run 2	5.6638 ppm	5.2373 ppm	0.0000 ppm	20.5088 ppm	0.0664 ppm	501.5507 ppm	20.7687 ppm
Concentration per Run 3	5.7039 ppm	5.2258 ppm	0.0001 ppm	20.4145 ppm	0.0657 ppm	495.7725 ppm	20.3154 ppm
Recovery Percentage 1	113.890 %	104.443 %	0.000 %	102.283 %	0.000 %	99.904 %	101.663 %
Concentration RSD	0.5 %	0.3 %	202.4 %	0.2 %	1.7 %	0.7 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.1133 ppm	0.0006 ppm	5.7935 [SIC 5]	439.3259 [SIC LDR]	9.9881 ppm	48.0979 ppm	5.5423 ppm
Concentration per Run 1	-0.1100 ppm	0.0006 ppm	5.7876 ppm	442.2201 ppm	9.9582 ppm	47.9867 ppm	5.5123 ppm
Concentration per Run 2	-0.1132 ppm	0.0006 ppm	5.8020 ppm	438.9146 ppm	10.0151 ppm	48.1549 ppm	5.5893 ppm
Concentration per Run 3	-0.1166 ppm	0.0006 ppm	5.7907 ppm	436.8430 ppm	9.9911 ppm	48.1521 ppm	5.5252 ppm
Recovery Percentage 1	0.000 %	0.000 %	115.869 %	87.865 %	99.881 %	96.196 %	110.845 %
Concentration RSD	2.9 %	1.4 %	0.1 %	0.6 %	0.3 %	0.2 %	0.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	5.5916 [SIC 5]	22.9582 [SIC 50]	10.3480 [SIC 20]	4.9525 ppm	0.0032 ppm	4.3259 ppm	0.0157 ppm
Concentration per Run 1	5.5793 ppm	22.8029 ppm	10.3682 ppm	4.9875 ppm	0.0033 ppm	4.3103 ppm	0.0160 ppm
Concentration per Run 2	5.6115 ppm	23.1259 ppm	10.3296 ppm	4.9544 ppm	0.0030 ppm	4.3420 ppm	0.0155 ppm
Concentration per Run 3	5.5841 ppm	22.9456 ppm	10.3461 ppm	4.9157 ppm	0.0033 ppm	4.3254 ppm	0.0156 ppm
Recovery Percentage 1	111.833 %	114.791 %	103.480 %	99.051 %	0.000 %	86.518 %	0.000 %
Concentration RSD	0.3 %	0.7 %	0.2 %	0.7 %	5.8 %	0.4 %	1.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	21.2663 [SIC 15]	96.0782 %	83.7712 %	75.7847 %	92.6263 %	70.9549 %	82.6450 %
Concentration per Run 1	21.3075 ppm	96.7098 %	83.5817 %	76.0580 %	93.0511 %	71.4424 %	82.4487 %
Concentration per Run 2	21.1886 ppm	96.1797 %	83.5708 %	75.4033 %	92.6256 %	70.3964 %	82.8313 %
Concentration per Run 3	21.3029 ppm	95.3450 %	84.1612 %	75.8928 %	92.2022 %	71.0258 %	82.6549 %
Recovery Percentage 1	106.332 %						
Concentration RSD	0.3 %	0.7 %	0.4 %	0.4 %	0.5 %	0.7 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 20 As pass
Analysis started at: 9/26/2024 11:12:11 AM
Comments <Comment>
Rack: 1
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0008 ppm	19.4687 ppm	0.0083 ppm	0.0001 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 1	0.0003 ppm	-0.0037 ppm	19.4370 ppm	0.0083 ppm	0.0000 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	19.4507 ppm	0.0083 ppm	0.0001 ppm	0.0000 ppm	0.0060 ppm
Concentration per Run 3	0.0001 ppm	0.0016 ppm	19.5184 ppm	0.0083 ppm	0.0000 ppm	0.0000 ppm	0.0069 ppm
Concentration RSD	129.0 %	337.2 %	0.2 %	0.3 %	121.5 %	31.4 %	7.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0011 ppm	-0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0071 ppm	0.0502 ppm	0.0032 ppm
Concentration per Run 1	-0.0012 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0059 ppm	0.0466 ppm	0.0022 ppm
Concentration per Run 2	-0.0011 ppm	-0.0003 ppm	-0.0002 ppm	0.0003 ppm	0.0089 ppm	0.0544 ppm	0.0035 ppm
Concentration per Run 3	-0.0011 ppm	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0066 ppm	0.0497 ppm	0.0038 ppm
Concentration RSD	2.0 %	188.5 %	35.1 %	24.8 %	21.9 %	7.8 %	26.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0007 ppm	0.0009 ppm	0.0001 ppm	0.0090 ppm	0.0003 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	-0.0026 ppm	0.0010 ppm	0.0001 ppm	0.0067 ppm	0.0001 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 2	-0.0006 ppm	0.0009 ppm	0.0001 ppm	0.0074 ppm	0.0003 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0013 ppm	0.0009 ppm	0.0000 ppm	0.0128 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm
Concentration RSD	295.2 %	4.3 %	94.7 %	37.1 %	70.9 %	93.7 %	236.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0012 ppm	0.0020 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 1	0.0026 ppm	0.0019 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0022 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 3	0.0011 ppm	0.0020 ppm	0.0007 ppm	0.0001 ppm	0.0002 ppm	-0.0012 ppm	0.0001 ppm
Concentration RSD	108.5 %	8.5 %	106.1 %	25.3 %	154.9 %	69.2 %	34.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	99.8746 %	101.2255 %	100.3551 %	97.8350 %	101.5313 %	99.5496 %
Concentration per Run 1	0.0004 ppm	100.1572 %	101.0936 %	100.6718 %	100.4437 %	101.3365 %	99.7000 %
Concentration per Run 2	0.0005 ppm	99.9886 %	101.2521 %	100.4776 %	97.0808 %	101.9902 %	99.6095 %
Concentration per Run 3	0.0004 ppm	99.4780 %	101.3308 %	99.9160 %	95.9804 %	101.2673 %	99.3394 %
Concentration RSD	7.8 %	0.4 %	0.1 %	0.4 %	2.4 %	0.4 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 20 B pass
Analysis started at: 9/26/2024 11:18:35 AM
Comments <Comment>
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0075 ppm	19.9399 [SIC 20]	0.0000 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 1	0.0000 ppm	-0.0009 ppm	0.0077 ppm	19.9480 ppm	0.0000 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 2	-0.0001 ppm	0.0019 ppm	0.0086 ppm	19.9214 ppm	0.0000 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 3	-0.0002 ppm	-0.0004 ppm	0.0063 ppm	19.9502 ppm	0.0000 ppm	0.0000 ppm	0.0043 ppm
Concentration RSD	72.0 %	743.9 %	15.5 %	0.1 %	327.6 %	1,327.9 %	59.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0002 ppm	0.0022 ppm	0.0372 ppm	0.0026 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	0.0001 ppm	0.0026 ppm	0.0438 ppm	0.0025 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0027 ppm	0.0357 ppm	0.0027 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0003 ppm	0.0015 ppm	0.0322 ppm	0.0026 ppm
Concentration RSD	53.0 %	15.7 %	305.5 %	43.2 %	28.4 %	16.0 %	3.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0062 ppm	0.0001 ppm	-0.0007 ppm	-0.0009 ppm
Concentration per Run 1	-0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0055 ppm	0.0000 ppm	-0.0009 ppm	-0.0006 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0057 ppm	0.0000 ppm	-0.0005 ppm	-0.0009 ppm
Concentration per Run 3	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0073 ppm	0.0002 ppm	-0.0006 ppm	-0.0012 ppm
Concentration RSD	318.1 %	105.8 %	252.1 %	15.4 %	106.4 %	36.6 %	34.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0011 ppm	0.0015 ppm	0.0004 ppm	0.0000 ppm	-0.0003 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 1	-0.0019 ppm	0.0014 ppm	0.0003 ppm	0.0000 ppm	-0.0004 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 2	-0.0010 ppm	0.0014 ppm	0.0004 ppm	0.0000 ppm	-0.0003 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 3	-0.0005 ppm	0.0016 ppm	0.0006 ppm	0.0000 ppm	-0.0002 ppm	-0.0009 ppm	0.0000 ppm
Concentration RSD	62.3 %	6.9 %	37.0 %	99.6 %	28.7 %	26.6 %	149.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	101.1481 %	100.1814 %	99.0933 %	98.1446 %	97.6049 %	97.7993 %
Concentration per Run 1	0.0001 ppm	101.7917 %	100.0892 %	99.2475 %	101.0759 %	97.4553 %	97.7775 %
Concentration per Run 2	0.0002 ppm	101.3069 %	100.4495 %	99.1125 %	97.6089 %	97.8399 %	97.4405 %
Concentration per Run 3	0.0002 ppm	100.3456 %	100.0055 %	98.9200 %	95.7490 %	97.5195 %	98.1799 %
Concentration RSD	31.5 %	0.7 %	0.2 %	0.2 %	2.8 %	0.2 %	0.4 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: xLDR 500 Na
Analysis started at: 9/26/2024 11:24:59 AM
Comments <Comment>
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0017 ppm	0.0012 ppm	0.0212 ppm	0.0001 ppm	0.0000 ppm	0.0090 ppm
Concentration per Run 1	-0.0002 ppm	-0.0003 ppm	0.0008 ppm	0.0225 ppm	0.0001 ppm	0.0000 ppm	0.0085 ppm
Concentration per Run 2	0.0001 ppm	0.0026 ppm	0.0009 ppm	0.0212 ppm	0.0001 ppm	0.0000 ppm	0.0094 ppm
Concentration per Run 3	0.0001 ppm	0.0029 ppm	0.0017 ppm	0.0199 ppm	0.0001 ppm	0.0000 ppm	0.0090 ppm
Concentration RSD	848.4 %	101.0 %	45.0 %	6.3 %	32.4 %	232.1 %	5.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0014 ppm	0.1831 ppm	-0.0094 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0008 ppm	0.0017 ppm	0.1507 ppm	-0.0102 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0008 ppm	0.0006 ppm	0.1881 ppm	-0.0092 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0020 ppm	0.2104 ppm	-0.0088 ppm
Concentration RSD	76.9 %	231.5 %	51.0 %	3.2 %	49.3 %	16.5 %	7.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0000 ppm	440.5023 [SIC LDR]	-0.0009 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 1	0.0009 ppm	-0.0001 ppm	0.0002 ppm	456.0876 ppm	-0.0007 ppm	-0.0008 ppm	0.0004 ppm
Concentration per Run 2	-0.0008 ppm	0.0001 ppm	-0.0001 ppm	426.5056 ppm	-0.0012 ppm	-0.0009 ppm	0.0006 ppm
Concentration per Run 3	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	438.9138 ppm	-0.0008 ppm	-0.0008 ppm	-0.0006 ppm
Concentration RSD	697.1 %	499.3 %	555.3 %	3.4 %	30.8 %	3.1 %	465.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	0.0046 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	-0.0009 ppm	-0.0003 ppm
Concentration per Run 1	0.0014 ppm	0.0044 ppm	-0.0015 ppm	0.0001 ppm	0.0000 ppm	-0.0014 ppm	-0.0004 ppm
Concentration per Run 2	-0.0012 ppm	0.0044 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 3	0.0001 ppm	0.0049 ppm	-0.0009 ppm	0.0001 ppm	-0.0001 ppm	-0.0011 ppm	-0.0001 ppm
Concentration RSD	961.3 %	6.6 %	58.1 %	103.6 %	29,002.2 %	69.0 %	62.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	95.3489 %	87.0486 %	89.5635 %	92.1161 %	72.8603 %	85.5762 %
Concentration per Run 1	0.0005 ppm	95.0354 %	87.1316 %	89.3569 %	93.5432 %	72.8453 %	85.6923 %
Concentration per Run 2	0.0004 ppm	94.6795 %	86.9252 %	90.1781 %	90.8815 %	73.2814 %	85.2971 %
Concentration per Run 3	0.0004 ppm	96.3319 %	87.0889 %	89.1554 %	91.9235 %	72.4542 %	85.7392 %
Concentration RSD	17.2 %	0.9 %	0.1 %	0.6 %	1.5 %	0.6 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 300 Na pass
Analysis started at: 9/26/2024 11:31:34 AM
Comments <Comment>
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0005 ppm	-0.0003 ppm	0.0133 ppm	0.0000 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	0.0136 ppm	0.0000 ppm	0.0000 ppm	0.0054 ppm
Concentration per Run 2	0.0002 ppm	0.0029 ppm	-0.0005 ppm	0.0133 ppm	0.0001 ppm	0.0000 ppm	0.0041 ppm
Concentration per Run 3	0.0003 ppm	-0.0011 ppm	-0.0003 ppm	0.0130 ppm	0.0000 ppm	0.0000 ppm	0.0081 ppm
Concentration RSD	87.7 %	441.2 %	82.7 %	2.4 %	89.3 %	114.9 %	35.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0013 ppm	0.1104 ppm	-0.0047 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0012 ppm	0.0855 ppm	-0.0047 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0005 ppm	0.1123 ppm	-0.0047 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0004 ppm	0.0023 ppm	0.1334 ppm	-0.0046 ppm
Concentration RSD	117.3 %	276.2 %	150.9 %	8.5 %	68.6 %	21.8 %	1.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0004 ppm	0.0001 ppm	-0.0001 ppm	276.7035 ppm	-0.0007 ppm	-0.0008 ppm	-0.0006 ppm
Concentration per Run 1	-0.0017 ppm	0.0002 ppm	-0.0001 ppm	262.1478 ppm	-0.0007 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 2	0.0013 ppm	0.0000 ppm	0.0000 ppm	280.8381 ppm	-0.0006 ppm	-0.0001 ppm	-0.0009 ppm
Concentration per Run 3	-0.0009 ppm	0.0001 ppm	-0.0001 ppm	287.1247 ppm	-0.0008 ppm	-0.0012 ppm	-0.0005 ppm
Concentration RSD	349.5 %	101.7 %	70.9 %	4.7 %	14.8 %	76.1 %	58.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0004 ppm	0.0033 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 1	-0.0002 ppm	0.0026 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 2	-0.0002 ppm	0.0038 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0007 ppm	-0.0003 ppm
Concentration per Run 3	0.0015 ppm	0.0036 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm
Concentration RSD	268.2 %	18.5 %	204.4 %	150.8 %	135.6 %	157.4 %	57.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	93.9496 %	90.2689 %	91.6251 %	91.5294 %	77.5870 %	88.6824 %
Concentration per Run 1	0.0002 ppm	94.6024 %	90.0655 %	92.3153 %	94.2032 %	78.1963 %	88.7969 %
Concentration per Run 2	0.0003 ppm	93.9281 %	90.4998 %	91.5577 %	90.5890 %	77.2633 %	88.7339 %
Concentration per Run 3	0.0002 ppm	93.3182 %	90.2415 %	91.0022 %	89.7961 %	77.3016 %	88.5164 %
Concentration RSD	34.5 %	0.7 %	0.2 %	0.7 %	2.6 %	0.7 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 20 Si pass
Analysis started at: 9/26/2024 11:41:20 AM
Comments <Comment>
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0016 ppm	0.0007 ppm	0.0104 ppm	0.0000 ppm	0.0000 ppm	0.0025 ppm
Concentration per Run 1	0.0002 ppm	-0.0019 ppm	0.0014 ppm	0.0108 ppm	-0.0001 ppm	0.0001 ppm	0.0046 ppm
Concentration per Run 2	0.0001 ppm	-0.0017 ppm	0.0002 ppm	0.0102 ppm	0.0000 ppm	0.0000 ppm	0.0012 ppm
Concentration per Run 3	0.0001 ppm	-0.0012 ppm	0.0006 ppm	0.0103 ppm	0.0000 ppm	0.0000 ppm	0.0017 ppm
Concentration RSD	21.0 %	22.7 %	83.7 %	3.1 %	807.5 %	66.8 %	74.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0002 ppm	-0.0007 ppm	0.0000 ppm	0.0003 ppm	0.0027 ppm	0.0203 ppm	0.0020 ppm
Concentration per Run 1	0.0002 ppm	-0.0007 ppm	-0.0003 ppm	0.0002 ppm	0.0019 ppm	0.0283 ppm	0.0018 ppm
Concentration per Run 2	0.0002 ppm	-0.0007 ppm	-0.0001 ppm	0.0002 ppm	0.0011 ppm	0.0354 ppm	0.0021 ppm
Concentration per Run 3	0.0001 ppm	-0.0007 ppm	0.0003 ppm	0.0003 ppm	0.0052 ppm	-0.0027 ppm	0.0023 ppm
Concentration RSD	29.0 %	2.9 %	1,247.1 %	20.4 %	80.3 %	99.7 %	12.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0360 ppm	-0.0008 ppm	-0.0061 ppm	0.0007 ppm
Concentration per Run 1	0.0020 ppm	0.0002 ppm	-0.0001 ppm	0.0331 ppm	-0.0008 ppm	-0.0066 ppm	0.0001 ppm
Concentration per Run 2	-0.0019 ppm	0.0000 ppm	-0.0001 ppm	0.0356 ppm	-0.0008 ppm	-0.0055 ppm	0.0005 ppm
Concentration per Run 3	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0393 ppm	-0.0007 ppm	-0.0062 ppm	0.0014 ppm
Concentration RSD	1,445.3 %	151.2 %	3.7 %	8.7 %	5.8 %	9.7 %	97.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0024 ppm	19.1642 ppm	-0.0002 ppm	0.0000 ppm	0.0004 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 1	0.0011 ppm	19.1240 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 2	0.0034 ppm	19.2118 ppm	-0.0005 ppm	0.0000 ppm	0.0004 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 3	0.0026 ppm	19.1567 ppm	-0.0002 ppm	0.0000 ppm	0.0005 ppm	-0.0009 ppm	-0.0001 ppm
Concentration RSD	48.0 %	0.2 %	182.8 %	58.6 %	6.6 %	34.9 %	332.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	101.7644 %	101.7547 %	100.7025 %	97.2684 %	100.1239 %	98.8763 %
Concentration per Run 1	0.0001 ppm	103.2347 %	101.7129 %	101.0069 %	99.1802 %	100.5591 %	99.0036 %
Concentration per Run 2	0.0001 ppm	101.6772 %	101.9136 %	100.3879 %	97.1634 %	99.6915 %	98.9926 %
Concentration per Run 3	0.0002 ppm	100.3812 %	101.6377 %	100.7126 %	95.4615 %	100.1210 %	98.6328 %
Concentration RSD	30.9 %	1.4 %	0.1 %	0.3 %	1.9 %	0.4 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: IEC 20 Mn -TI
Analysis started at: 9/26/2024 11:47:45 AM
Comments <Comment>
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0009 ppm	-0.0015 ppm	-0.0016 ppm	0.0078 ppm	0.0000 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 1	0.0009 ppm	-0.0021 ppm	-0.0027 ppm	0.0079 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 2	0.0011 ppm	0.0004 ppm	-0.0012 ppm	0.0079 ppm	0.0000 ppm	0.0000 ppm	0.0048 ppm
Concentration per Run 3	0.0008 ppm	-0.0027 ppm	-0.0008 ppm	0.0077 ppm	0.0001 ppm	0.0000 ppm	0.0018 ppm
Recovery Percentage 1	13.210 %	-1.450 %	-31.411 %	26.150 %	0.253 %	-0.080 %	2.031 %
Concentration RSD	14.6 %	114.7 %	62.7 %	1.4 %	133.1 %	254.5 %	131.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0033 ppm	0.0004 ppm	0.0002 ppm	0.0236 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0032 ppm	0.0004 ppm	0.0008 ppm	0.0295 ppm	0.0011 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0033 ppm	0.0004 ppm	-0.0003 ppm	0.0253 ppm	0.0012 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0032 ppm	0.0003 ppm	0.0000 ppm	0.0160 ppm	0.0009 ppm
Recovery Percentage 1	0.755 %	-0.318 %	32.533 %	3.779 %	0.339 %	0.945 %	10.696 %
Concentration RSD	80.6 %	57.9 %	2.2 %	15.7 %	329.0 %	29.2 %	13.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0053 ppm	19.9986 ppm	-0.0001 ppm	0.0167 ppm	0.0005 ppm	0.0007 ppm	-0.0002 ppm
Concentration per Run 1	-0.0056 ppm	19.7609 ppm	0.0000 ppm	0.0138 ppm	0.0005 ppm	0.0005 ppm	-0.0014 ppm
Concentration per Run 2	-0.0059 ppm	20.0409 ppm	0.0000 ppm	0.0167 ppm	0.0005 ppm	0.0011 ppm	0.0004 ppm
Concentration per Run 3	-0.0045 ppm	20.1940 ppm	-0.0002 ppm	0.0196 ppm	0.0006 ppm	0.0004 ppm	0.0004 ppm
Recovery Percentage 1	-5.306 %	199,985.991 %	-0.166 %	0.834 %	2.184 %	6.663 %	-0.380 %
Concentration RSD	14.3 %	1.1 %	77.3 %	17.3 %	3.7 %	61.8 %	562.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0028 ppm	0.0019 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0047 ppm
Concentration per Run 1	-0.0036 ppm	0.0020 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0052 ppm
Concentration per Run 2	-0.0032 ppm	0.0015 ppm	-0.0007 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0046 ppm
Concentration per Run 3	-0.0018 ppm	0.0021 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0043 ppm
Recovery Percentage 1	-28.454 %	0.375 %	-0.805 %	0.510 %	0.777 %	0.891 %	46.819 %
Concentration RSD	33.0 %	16.8 %	108.8 %	47.7 %	82.1 %	143.1 %	10.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	101.1853 %	99.2730 %	98.4303 %	97.1025 %	97.0109 %	96.4275 %
Concentration per Run 1	0.0002 ppm	101.0592 %	99.2308 %	98.3675 %	99.3860 %	97.1632 %	96.2014 %
Concentration per Run 2	0.0002 ppm	101.3953 %	99.0152 %	98.4488 %	96.2158 %	96.9764 %	96.0898 %
Concentration per Run 3	0.0002 ppm	101.1016 %	99.5731 %	98.4745 %	95.7058 %	96.8931 %	96.9913 %
Recovery Percentage 1	3.575 %						
Concentration RSD	4.9 %	0.2 %	0.3 %	0.1 %	2.1 %	0.1 %	0.5 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 5 Cd pass
Analysis started at: 9/26/2024 12:25:53 PM
Comments <Comment>
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0005 ppm	-0.0028 ppm	0.0039 ppm	0.0001 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 1	0.0000 ppm	-0.0012 ppm	-0.0033 ppm	0.0038 ppm	0.0000 ppm	0.0000 ppm	0.0055 ppm
Concentration per Run 2	0.0003 ppm	0.0019 ppm	-0.0025 ppm	0.0040 ppm	0.0001 ppm	0.0000 ppm	0.0075 ppm
Concentration per Run 3	0.0002 ppm	0.0009 ppm	-0.0024 ppm	0.0039 ppm	0.0001 ppm	0.0000 ppm	0.0046 ppm
Concentration RSD	108.7 %	296.1 %	18.3 %	1.7 %	60.9 %	70.7 %	25.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	4.9158 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0009 ppm	0.0091 ppm	0.0006 ppm
Concentration per Run 1	4.9161 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0012 ppm	0.0176 ppm	0.0004 ppm
Concentration per Run 2	4.9317 ppm	-0.0002 ppm	0.0001 ppm	0.0005 ppm	0.0006 ppm	-0.0056 ppm	0.0010 ppm
Concentration per Run 3	4.8998 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0009 ppm	0.0154 ppm	0.0005 ppm
Concentration RSD	0.3 %	107.5 %	330.9 %	21.5 %	31.9 %	140.7 %	43.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0016 ppm	0.0001 ppm	-0.0001 ppm	0.0067 ppm	-0.0001 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 1	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0070 ppm	0.0000 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 2	-0.0002 ppm	0.0002 ppm	-0.0001 ppm	0.0061 ppm	-0.0001 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 3	0.0031 ppm	0.0001 ppm	0.0000 ppm	0.0071 ppm	-0.0001 ppm	-0.0008 ppm	-0.0001 ppm
Concentration RSD	106.2 %	68.0 %	98.0 %	8.1 %	73.5 %	68.9 %	259.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0018 ppm	0.0008 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 1	0.0006 ppm	0.0011 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 2	0.0027 ppm	0.0009 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0010 ppm	-0.0003 ppm
Concentration per Run 3	0.0020 ppm	0.0005 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	-0.0010 ppm	0.0000 ppm
Concentration RSD	59.3 %	35.0 %	71.0 %	27.9 %	230.7 %	24.5 %	107.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	102.4357 %	101.3624 %	99.7240 %	99.7369 %	100.9936 %	99.0911 %
Concentration per Run 1	0.0003 ppm	104.0371 %	101.1286 %	100.1697 %	103.6366 %	101.5795 %	99.0803 %
Concentration per Run 2	0.0003 ppm	101.1953 %	101.4791 %	99.6669 %	98.0663 %	100.8136 %	99.0112 %
Concentration per Run 3	0.0003 ppm	102.0748 %	101.4796 %	99.3354 %	97.5077 %	100.5878 %	99.1819 %
Concentration RSD	4.6 %	1.4 %	0.2 %	0.4 %	3.4 %	0.5 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 5 Mo pass
Analysis started at: 9/26/2024 12:32:19 PM
Comments <Comment>
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.1311 ppm	-0.0009 ppm	-0.0182 ppm	-0.0001 ppm	-0.0002 ppm	0.0009 ppm
Concentration per Run 1	0.0002 ppm	0.1258 ppm	-0.0001 ppm	-0.0184 ppm	-0.0001 ppm	-0.0002 ppm	0.0020 ppm
Concentration per Run 2	0.0002 ppm	0.1328 ppm	-0.0011 ppm	-0.0185 ppm	-0.0002 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 3	0.0005 ppm	0.1348 ppm	-0.0014 ppm	-0.0177 ppm	-0.0001 ppm	-0.0002 ppm	0.0009 ppm
Concentration RSD	57.2 %	3.6 %	74.1 %	2.2 %	42.3 %	7.2 %	110.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	-0.0001 ppm	-0.0013 ppm	0.0020 ppm	0.0004 ppm	0.0068 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0012 ppm	0.0020 ppm	0.0011 ppm	0.0137 ppm	0.0002 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	-0.0014 ppm	0.0020 ppm	-0.0004 ppm	0.0035 ppm	0.0004 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	-0.0014 ppm	0.0019 ppm	0.0005 ppm	0.0033 ppm	-0.0002 ppm
Concentration RSD	31.1 %	18.3 %	6.8 %	1.4 %	203.1 %	87.3 %	237.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.1156 ppm	-0.0001 ppm	5.0575 [SIC 5]	0.0157 ppm	0.0009 ppm	-0.0042 ppm	-0.0035 ppm
Concentration per Run 1	-0.1139 ppm	-0.0002 ppm	5.0696 ppm	0.0185 ppm	0.0007 ppm	-0.0045 ppm	-0.0027 ppm
Concentration per Run 2	-0.1191 ppm	-0.0001 ppm	5.0721 ppm	0.0145 ppm	0.0010 ppm	-0.0037 ppm	-0.0043 ppm
Concentration per Run 3	-0.1137 ppm	0.0000 ppm	5.0307 ppm	0.0142 ppm	0.0011 ppm	-0.0045 ppm	-0.0035 ppm
Concentration RSD	2.6 %	101.5 %	0.5 %	15.1 %	21.5 %	11.0 %	22.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0021 ppm	0.0696 ppm	-0.0003 ppm	0.0001 ppm	0.0011 ppm	-0.0004 ppm	0.0152 ppm
Concentration per Run 1	0.0023 ppm	0.0696 ppm	0.0001 ppm	0.0001 ppm	0.0009 ppm	-0.0007 ppm	0.0154 ppm
Concentration per Run 2	0.0027 ppm	0.0702 ppm	-0.0003 ppm	0.0001 ppm	0.0009 ppm	0.0002 ppm	0.0152 ppm
Concentration per Run 3	0.0013 ppm	0.0691 ppm	-0.0008 ppm	0.0001 ppm	0.0013 ppm	-0.0006 ppm	0.0150 ppm
Concentration RSD	34.6 %	0.8 %	142.4 %	32.0 %	21.4 %	127.9 %	1.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0005 ppm	101.8741 %	100.4146 %	98.3517 %	98.4196 %	99.1531 %	97.3412 %
Concentration per Run 1	-0.0005 ppm	101.6893 %	100.4776 %	98.0176 %	99.6743 %	98.7660 %	97.3932 %
Concentration per Run 2	-0.0006 ppm	102.0572 %	100.4845 %	98.1511 %	98.3508 %	99.0389 %	97.3730 %
Concentration per Run 3	-0.0005 ppm	101.8758 %	100.2819 %	98.8866 %	97.2335 %	99.6545 %	97.2574 %
Concentration RSD	14.7 %	0.2 %	0.1 %	0.5 %	1.2 %	0.5 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 5 Se pass
Analysis started at: 9/26/2024 12:38:39 PM
Comments <Comment>
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0046 ppm	-0.0007 ppm	0.0027 ppm	0.0000 ppm	0.0000 ppm	0.0066 ppm
Concentration per Run 1	0.0004 ppm	0.0074 ppm	-0.0001 ppm	0.0026 ppm	0.0000 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 2	0.0002 ppm	0.0024 ppm	-0.0010 ppm	0.0027 ppm	0.0000 ppm	0.0000 ppm	0.0073 ppm
Concentration per Run 3	0.0001 ppm	0.0041 ppm	-0.0009 ppm	0.0028 ppm	0.0000 ppm	0.0000 ppm	0.0064 ppm
Concentration RSD	69.2 %	54.3 %	80.3 %	4.4 %	1,360.0 %	219.4 %	8.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0026 ppm	0.0056 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0027 ppm	0.0019 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0022 ppm	0.0169 ppm	-0.0003 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0029 ppm	-0.0018 ppm	0.0006 ppm
Concentration RSD	12.6 %	31.1 %	305.4 %	4.1 %	13.2 %	175.6 %	214.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0020 ppm	0.0075 ppm	0.0000 ppm	-0.0005 ppm	0.0006 ppm
Concentration per Run 1	-0.0011 ppm	0.0000 ppm	0.0022 ppm	0.0057 ppm	0.0000 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 2	0.0006 ppm	0.0000 ppm	0.0020 ppm	0.0070 ppm	0.0001 ppm	-0.0006 ppm	0.0010 ppm
Concentration per Run 3	0.0002 ppm	0.0000 ppm	0.0018 ppm	0.0098 ppm	0.0001 ppm	-0.0004 ppm	0.0008 ppm
Concentration RSD	1,011.5 %	295.7 %	11.7 %	27.8 %	52.1 %	21.0 %	99.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	5.3148 [SIC 5]	0.0017 ppm	-0.0002 ppm	0.0000 ppm	0.0003 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 1	5.3151 ppm	0.0022 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 2	5.3091 ppm	0.0012 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 3	5.3202 ppm	0.0018 ppm	-0.0003 ppm	0.0000 ppm	0.0006 ppm	-0.0013 ppm	-0.0001 ppm
Concentration RSD	0.1 %	29.4 %	65.4 %	19.1 %	127.0 %	78.5 %	110.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	102.7497 %	99.4157 %	97.1301 %	99.7911 %	97.7907 %	97.0242 %
Concentration per Run 1	0.0003 ppm	104.2379 %	99.3922 %	96.9609 %	103.8152 %	97.2395 %	96.9129 %
Concentration per Run 2	0.0003 ppm	102.1210 %	99.3627 %	97.2047 %	97.9670 %	97.7036 %	97.2213 %
Concentration per Run 3	0.0003 ppm	101.8903 %	99.4922 %	97.2248 %	97.5911 %	98.4289 %	96.9383 %
Concentration RSD	14.0 %	1.3 %	0.1 %	0.2 %	3.5 %	0.6 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCV
Analysis started at: 9/26/2024 1:07:48 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5164 ppm	0.5157 ppm	0.5014 ppm	0.5174 ppm	0.5153 ppm	0.5098 ppm	0.5026 ppm
Concentration per Run 1	0.5221 ppm	0.4971 ppm	0.5002 ppm	0.5163 ppm	0.4941 ppm	0.4893 ppm	0.4883 ppm
Concentration per Run 2	0.5125 ppm	0.5247 ppm	0.5008 ppm	0.5166 ppm	0.5262 ppm	0.5209 ppm	0.5108 ppm
Concentration per Run 3	0.5148 ppm	0.5252 ppm	0.5031 ppm	0.5193 ppm	0.5255 ppm	0.5192 ppm	0.5088 ppm
Recovery Percentage 1	103.289 %	103.138 %	100.274 %	103.476 %	103.052 %	101.956 %	100.525 %
Concentration RSD	1.0 %	3.1 %	0.3 %	0.3 %	3.6 %	3.5 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4953 ppm	0.4764 ppm	0.4968 ppm	0.5096 ppm	0.5070 ppm	5.2345 ppm	0.5165 ppm
Concentration per Run 1	0.4945 ppm	0.4752 ppm	0.5018 ppm	0.5154 ppm	0.4877 ppm	4.9884 ppm	0.4935 ppm
Concentration per Run 2	0.4955 ppm	0.4778 ppm	0.4954 ppm	0.5077 ppm	0.5169 ppm	5.3814 ppm	0.5301 ppm
Concentration per Run 3	0.4957 ppm	0.4764 ppm	0.4933 ppm	0.5057 ppm	0.5164 ppm	5.3338 ppm	0.5259 ppm
Recovery Percentage 1	99.050 %	95.289 %	99.365 %	101.920 %	101.398 %	104.691 %	103.298 %
Concentration RSD	0.1 %	0.3 %	0.9 %	1.0 %	3.3 %	4.1 %	3.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5198 ppm	0.4912 ppm	0.5039 ppm	10.2466 ppm	0.4687 ppm	0.4801 ppm	0.4882 ppm
Concentration per Run 1	0.5233 ppm	0.4703 ppm	0.5029 ppm	9.8101 ppm	0.4687 ppm	0.4791 ppm	0.4889 ppm
Concentration per Run 2	0.5200 ppm	0.5028 ppm	0.5039 ppm	10.4886 ppm	0.4692 ppm	0.4815 ppm	0.4873 ppm
Concentration per Run 3	0.5161 ppm	0.5004 ppm	0.5049 ppm	10.4410 ppm	0.4683 ppm	0.4797 ppm	0.4884 ppm
Recovery Percentage 1	103.956 %	98.235 %	100.778 %	102.466 %	93.748 %	96.025 %	97.642 %
Concentration RSD	0.7 %	3.7 %	0.2 %	3.7 %	0.1 %	0.3 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5068 ppm	5.2891 ppm	0.4997 ppm	0.4900 ppm	0.5114 ppm	0.4977 ppm	0.5032 ppm
Concentration per Run 1	0.5053 ppm	5.2866 ppm	0.4999 ppm	0.4696 ppm	0.5181 ppm	0.4965 ppm	0.5097 ppm
Concentration per Run 2	0.5063 ppm	5.2923 ppm	0.4995 ppm	0.5006 ppm	0.5083 ppm	0.4987 ppm	0.5002 ppm
Concentration per Run 3	0.5088 ppm	5.2883 ppm	0.4998 ppm	0.4998 ppm	0.5078 ppm	0.4979 ppm	0.4999 ppm
Recovery Percentage 1	101.357 %	100.744 %	99.949 %	98.003 %	102.288 %	99.538 %	100.650 %
Concentration RSD	0.4 %	0.1 %	0.0 %	3.6 %	1.1 %	0.2 %	1.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4559 ppm	103.9426 %	99.4179 %	97.1910 %	100.0717 %	93.2704 %	96.7425 %
Concentration per Run 1	0.4540 ppm	105.7809 %	98.8335 %	97.3697 %	104.0054 %	93.4393 %	95.8005 %
Concentration per Run 2	0.4579 ppm	103.2615 %	99.8055 %	97.2832 %	98.2704 %	93.2052 %	97.2691 %
Concentration per Run 3	0.4559 ppm	102.7853 %	99.6147 %	96.9201 %	97.9393 %	93.1669 %	97.1579 %
Recovery Percentage 1	91.184 %						
Concentration RSD	0.4 %	1.5 %	0.5 %	0.2 %	3.4 %	0.2 %	0.8 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCB
Analysis started at: 9/26/2024 1:13:52 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0009 ppm	-0.0007 ppm	0.0023 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 1	-0.0001 ppm	-0.0026 ppm	-0.0015 ppm	0.0024 ppm	0.0000 ppm	0.0000 ppm	-0.0023 ppm
Concentration per Run 2	-0.0002 ppm	0.0037 ppm	0.0001 ppm	0.0022 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 3	-0.0003 ppm	-0.0038 ppm	-0.0006 ppm	0.0023 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm
Recovery Percentage 1	-2.767 %	-0.862 %	-13.068 %	7.722 %	-0.186 %	0.055 %	-1.211 %
Concentration RSD	39.5 %	468.7 %	125.2 %	5.1 %	105.8 %	689.3 %	76.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0004 ppm	-0.0038 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0005 ppm	-0.0134 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0000 ppm	-0.0066 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0008 ppm	0.0085 ppm	-0.0006 ppm
Recovery Percentage 1	0.452 %	-0.263 %	-1.155 %	3.744 %	0.881 %	-0.154 %	-3.159 %
Concentration RSD	52.7 %	146.9 %	73.7 %	28.4 %	97.5 %	292.1 %	100.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0023 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 1	-0.0030 ppm	0.0000 ppm	0.0002 ppm	-0.0029 ppm	0.0001 ppm	-0.0006 ppm	-0.0003 ppm
Concentration per Run 2	-0.0016 ppm	0.0001 ppm	0.0001 ppm	0.0048 ppm	0.0001 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 3	-0.0021 ppm	-0.0002 ppm	0.0000 ppm	-0.0007 ppm	0.0001 ppm	-0.0002 ppm	-0.0005 ppm
Recovery Percentage 1	-2.271 %	0.018 %	0.110 %	0.021 %	0.474 %	-4.012 %	-0.597 %
Concentration RSD	31.2 %	7,730.8 %	191.0 %	944.7 %	34.7 %	42.3 %	73.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0005 ppm	-0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 2	0.0016 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0011 ppm	0.0001 ppm
Recovery Percentage 1	6.970 %	-0.020 %	0.103 %	0.504 %	0.948 %	-2.392 %	0.266 %
Concentration RSD	118.0 %	104.2 %	338.1 %	55.2 %	146.2 %	123.0 %	494.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	103.8152 %	99.3807 %	97.0612 %	99.7989 %	98.3497 %	96.0001 %
Concentration per Run 1	0.0000 ppm	105.4307 %	99.2072 %	96.2750 %	104.1743 %	97.5787 %	95.9355 %
Concentration per Run 2	0.0000 ppm	103.2233 %	99.4902 %	97.2592 %	98.7358 %	98.5033 %	95.8692 %
Concentration per Run 3	0.0000 ppm	102.7915 %	99.4447 %	97.6494 %	96.4865 %	98.9672 %	96.1955 %
Recovery Percentage 1	0.316 %						
Concentration RSD	188.7 %	1.4 %	0.2 %	0.7 %	4.0 %	0.7 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1976262-1 WG1976262
Analysis started at: 9/26/2024 1:20:56 PM
Comments <Comment>
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0107 ppm
Concentration per Run 1	0.0000 ppm	0.0012 ppm	-0.0003 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0106 ppm
Concentration per Run 2	-0.0002 ppm	-0.0004 ppm	0.0006 ppm	0.0021 ppm	0.0000 ppm	0.0000 ppm	0.0099 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	-0.0014 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0116 ppm
Recovery Percentage 1	-0.318 %	0.171 %	-7.322 %	6.372 %	-0.247 %	0.008 %	10.707 %
Concentration RSD	736.1 %	516.9 %	282.6 %	9.9 %	66.0 %	4,295.1 %	8.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0008 ppm	0.0004 ppm	-0.0056 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	-0.0002 ppm	0.0034 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0008 ppm	0.0008 ppm	-0.0216 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0007 ppm	0.0005 ppm	0.0013 ppm	0.0001 ppm
Recovery Percentage 1	-0.144 %	-0.644 %	-1.623 %	7.577 %	0.729 %	-0.224 %	-3.431 %
Concentration RSD	310.7 %	69.6 %	9.2 %	7.9 %	147.1 %	247.7 %	103.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0095 ppm	0.0000 ppm	-0.0005 ppm	-0.0004 ppm
Concentration per Run 1	-0.0011 ppm	0.0001 ppm	0.0001 ppm	0.0055 ppm	-0.0001 ppm	-0.0004 ppm	-0.0010 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0139 ppm	0.0001 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 3	-0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0091 ppm	0.0000 ppm	-0.0007 ppm	-0.0002 ppm
Recovery Percentage 1	-0.631 %	0.199 %	0.129 %	0.476 %	0.008 %	-4.564 %	-0.836 %
Concentration RSD	115.0 %	547.1 %	161.7 %	44.0 %	4,299.3 %	38.8 %	122.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	0.0044 ppm	-0.0004 ppm	0.0001 ppm	-0.0001 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 1	0.0008 ppm	0.0044 ppm	-0.0005 ppm	0.0000 ppm	-0.0001 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 2	-0.0002 ppm	0.0043 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0013 ppm	-0.0001 ppm
Concentration per Run 3	0.0014 ppm	0.0044 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	-0.0002 ppm
Recovery Percentage 1	6.668 %	0.874 %	-0.758 %	0.625 %	-0.500 %	-4.032 %	-1.985 %
Concentration RSD	122.9 %	0.9 %	21.4 %	55.3 %	168.6 %	67.2 %	34.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0013 ppm	105.2132 %	100.8645 %	96.8318 %	100.0154 %	98.9533 %	97.5380 %
Concentration per Run 1	0.0013 ppm	106.3137 %	101.0190 %	97.2533 %	101.0357 %	98.9806 %	97.8797 %
Concentration per Run 2	0.0013 ppm	104.7890 %	100.6998 %	96.4999 %	99.7392 %	99.1150 %	97.4405 %
Concentration per Run 3	0.0013 ppm	104.5370 %	100.8748 %	96.7422 %	99.2711 %	98.7642 %	97.2937 %
Recovery Percentage 1	26.149 %						
Concentration RSD	3.8 %	0.9 %	0.2 %	0.4 %	0.9 %	0.2 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1976262-2 WG1976262
Analysis started at: 9/26/2024 1:27:20 PM
Comments <Comment>
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0546 ppm	2.1880 ppm	0.1249 ppm	1.0363 ppm	2.1624 ppm	0.0522 ppm	10.2212 ppm
Concentration per Run 1	0.0546 ppm	2.1879 ppm	0.1244 ppm	1.0357 ppm	2.1565 ppm	0.0522 ppm	10.2428 ppm
Concentration per Run 2	0.0544 ppm	2.1763 ppm	0.1251 ppm	1.0376 ppm	2.1983 ppm	0.0522 ppm	10.1633 ppm
Concentration per Run 3	0.0548 ppm	2.1998 ppm	0.1251 ppm	1.0357 ppm	2.1324 ppm	0.0523 ppm	10.2577 ppm
Concentration RSD	0.4 %	0.5 %	0.3 %	0.1 %	1.5 %	0.2 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0538 ppm	0.4826 ppm	0.2009 ppm	0.2743 ppm	1.0630 ppm	11.4586 ppm	-0.0011 ppm
Concentration per Run 1	0.0538 ppm	0.4821 ppm	0.1999 ppm	0.2747 ppm	1.0667 ppm	11.4524 ppm	-0.0008 ppm
Concentration per Run 2	0.0538 ppm	0.4822 ppm	0.2021 ppm	0.2738 ppm	1.0604 ppm	11.3469 ppm	-0.0013 ppm
Concentration per Run 3	0.0539 ppm	0.4835 ppm	0.2008 ppm	0.2743 ppm	1.0619 ppm	11.5765 ppm	-0.0011 ppm
Concentration RSD	0.1 %	0.2 %	0.6 %	0.2 %	0.3 %	1.0 %	27.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.5358 ppm	0.5145 ppm	1.0236 ppm	11.5193 ppm	0.4791 ppm	0.5246 ppm	0.5141 ppm
Concentration per Run 1	10.5602 ppm	0.5136 ppm	1.0208 ppm	11.5215 ppm	0.4791 ppm	0.5242 ppm	0.5122 ppm
Concentration per Run 2	10.5078 ppm	0.5154 ppm	1.0253 ppm	11.4151 ppm	0.4782 ppm	0.5253 ppm	0.5138 ppm
Concentration per Run 3	10.5393 ppm	0.5145 ppm	1.0247 ppm	11.6213 ppm	0.4799 ppm	0.5243 ppm	0.5164 ppm
Concentration RSD	0.3 %	0.2 %	0.2 %	0.9 %	0.2 %	0.1 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1263 ppm	0.8929 ppm	1.0121 ppm	1.0139 ppm	1.0324 ppm	0.1205 ppm	0.5175 ppm
Concentration per Run 1	0.1260 ppm	0.8911 ppm	1.0097 ppm	1.0110 ppm	1.0321 ppm	0.1206 ppm	0.5170 ppm
Concentration per Run 2	0.1261 ppm	0.8932 ppm	1.0124 ppm	1.0118 ppm	1.0347 ppm	0.1208 ppm	0.5182 ppm
Concentration per Run 3	0.1267 ppm	0.8945 ppm	1.0142 ppm	1.0189 ppm	1.0303 ppm	0.1202 ppm	0.5172 ppm
Concentration RSD	0.3 %	0.2 %	0.2 %	0.4 %	0.2 %	0.3 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4595 ppm	102.1446 %	97.0725 %	93.0754 %	98.5212 %	89.0938 %	94.3743 %
Concentration per Run 1	0.4600 ppm	99.8135 %	97.2863 %	93.3683 %	98.7677 %	89.3469 %	94.3709 %
Concentration per Run 2	0.4582 ppm	103.5460 %	96.9663 %	92.9787 %	98.8048 %	89.1283 %	94.2555 %
Concentration per Run 3	0.4603 ppm	103.0744 %	96.9648 %	92.8792 %	97.9909 %	88.8062 %	94.4966 %
Concentration RSD	0.2 %	2.0 %	0.2 %	0.3 %	0.5 %	0.3 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453906-01 WG1976262
Analysis started at: 9/26/2024 1:33:32 PM
Comments <Comment>
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0531 ppm	-0.0006 ppm	0.0079 ppm	0.0020 ppm	0.0000 ppm	1.8278 ppm
Concentration per Run 1	-0.0005 ppm	0.0550 ppm	-0.0005 ppm	0.0077 ppm	0.0019 ppm	0.0000 ppm	1.7954 ppm
Concentration per Run 2	0.0002 ppm	0.0483 ppm	0.0001 ppm	0.0078 ppm	0.0021 ppm	0.0000 ppm	1.8473 ppm
Concentration per Run 3	-0.0001 ppm	0.0561 ppm	-0.0013 ppm	0.0080 ppm	0.0020 ppm	0.0000 ppm	1.8406 ppm
Concentration RSD	258.9 %	8.0 %	121.0 %	1.8 %	2.7 %	124.6 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0011 ppm	0.0651 ppm	0.2683 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0013 ppm	0.0631 ppm	0.2520 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0665 ppm	0.2707 ppm	-0.0010 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0011 ppm	0.0658 ppm	0.2821 ppm	-0.0009 ppm
Concentration RSD	544.6 %	23.9 %	98.5 %	19.6 %	2.7 %	5.7 %	79.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.6313 ppm	0.0222 ppm	0.0006 ppm	3.3885 ppm	-0.0001 ppm	-0.0004 ppm	0.0004 ppm
Concentration per Run 1	0.6284 ppm	0.0220 ppm	0.0008 ppm	3.2630 ppm	-0.0001 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 2	0.6306 ppm	0.0224 ppm	0.0006 ppm	3.4111 ppm	0.0001 ppm	-0.0005 ppm	0.0005 ppm
Concentration per Run 3	0.6348 ppm	0.0224 ppm	0.0005 ppm	3.4914 ppm	-0.0001 ppm	-0.0003 ppm	0.0005 ppm
Concentration RSD	0.5 %	1.0 %	19.2 %	3.4 %	166.8 %	21.8 %	54.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	1.1424 ppm	-0.0003 ppm	0.0077 ppm	0.0005 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 1	0.0004 ppm	1.1425 ppm	-0.0001 ppm	0.0075 ppm	0.0002 ppm	-0.0006 ppm	0.0002 ppm
Concentration per Run 2	-0.0003 ppm	1.1422 ppm	-0.0001 ppm	0.0078 ppm	0.0006 ppm	-0.0021 ppm	-0.0002 ppm
Concentration per Run 3	0.0013 ppm	1.1424 ppm	-0.0008 ppm	0.0079 ppm	0.0006 ppm	-0.0011 ppm	0.0001 ppm
Concentration RSD	175.4 %	0.0 %	124.1 %	2.8 %	41.2 %	58.3 %	580.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0010 ppm	105.5960 %	99.4635 %	95.4232 %	101.4411 %	96.3176 %	96.2019 %
Concentration per Run 1	0.0011 ppm	106.3154 %	99.6494 %	95.5407 %	103.4532 %	96.2152 %	95.9172 %
Concentration per Run 2	0.0010 ppm	104.7826 %	99.3253 %	95.5083 %	100.4040 %	96.3238 %	96.4657 %
Concentration per Run 3	0.0010 ppm	105.6899 %	99.4158 %	95.2205 %	100.4661 %	96.4139 %	96.2228 %
Concentration RSD	5.0 %	0.7 %	0.2 %	0.2 %	1.7 %	0.1 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2454942-01 WG1976262
Analysis started at: 9/26/2024 1:39:54 PM
Comments <Comment>
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0049 ppm	348.6654 ppm	0.0123 ppm	0.1245 ppm	0.9022 ppm	0.0002 ppm	98.1957 ppm
Concentration per Run 1	0.0048 ppm	332.1655 ppm	0.0140 ppm	0.1235 ppm	0.8866 ppm	0.0002 ppm	96.5569 ppm
Concentration per Run 2	0.0047 ppm	345.3700 ppm	0.0129 ppm	0.1252 ppm	0.9100 ppm	0.0002 ppm	99.0313 ppm
Concentration per Run 3	0.0051 ppm	368.4608 ppm	0.0100 ppm	0.1248 ppm	0.9100 ppm	0.0002 ppm	98.9988 ppm
Concentration RSD	4.1 %	5.3 %	16.9 %	0.7 %	1.5 %	6.2 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0034 ppm	0.0059 ppm	0.0344 ppm	1.5829 ppm	10.2099 ppm	8.1882 ppm	0.0002 ppm
Concentration per Run 1	0.0034 ppm	0.0058 ppm	0.0344 ppm	1.5814 ppm	10.0021 ppm	8.2141 ppm	0.0004 ppm
Concentration per Run 2	0.0032 ppm	0.0059 ppm	0.0341 ppm	1.5926 ppm	10.3478 ppm	7.9956 ppm	0.0002 ppm
Concentration per Run 3	0.0035 ppm	0.0059 ppm	0.0346 ppm	1.5748 ppm	10.2797 ppm	8.3549 ppm	0.0001 ppm
Concentration RSD	3.8 %	1.4 %	0.8 %	0.6 %	1.8 %	2.2 %	59.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.4449 ppm	0.2015 ppm	0.0196 ppm	14.4770 ppm	0.0381 ppm	0.1069 ppm	0.0005 ppm
Concentration per Run 1	6.4114 ppm	0.1980 ppm	0.0196 ppm	14.5589 ppm	0.0384 ppm	0.1058 ppm	0.0022 ppm
Concentration per Run 2	6.4710 ppm	0.2036 ppm	0.0194 ppm	14.1879 ppm	0.0381 ppm	0.1064 ppm	-0.0014 ppm
Concentration per Run 3	6.4523 ppm	0.2030 ppm	0.0196 ppm	14.6843 ppm	0.0379 ppm	0.1083 ppm	0.0008 ppm
Concentration RSD	0.5 %	1.5 %	0.5 %	1.8 %	0.8 %	1.2 %	359.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0095 ppm	6.6068 ppm	0.0311 ppm	0.3699 ppm	0.0720 ppm	-0.0111 ppm	0.0199 ppm
Concentration per Run 1	0.0101 ppm	6.5940 ppm	0.0309 ppm	0.3630 ppm	0.0730 ppm	-0.0101 ppm	0.0199 ppm
Concentration per Run 2	0.0103 ppm	6.6234 ppm	0.0308 ppm	0.3732 ppm	0.0720 ppm	-0.0126 ppm	0.0197 ppm
Concentration per Run 3	0.0080 ppm	6.6030 ppm	0.0315 ppm	0.3734 ppm	0.0709 ppm	-0.0105 ppm	0.0201 ppm
Concentration RSD	13.6 %	0.2 %	1.3 %	1.6 %	1.4 %	11.9 %	1.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	3.2735 ppm	98.7795 %	91.4644 %	86.5664 %	94.5808 %	72.1016 %	88.0702 %
Concentration per Run 1	3.2789 ppm	99.4110 %	91.5605 %	86.8720 %	96.7802 %	72.2625 %	88.0722 %
Concentration per Run 2	3.2891 ppm	99.0415 %	91.5497 %	86.7394 %	93.7527 %	72.1329 %	88.2210 %
Concentration per Run 3	3.2525 ppm	97.8859 %	91.2830 %	86.0877 %	93.2094 %	71.9094 %	87.9173 %
Concentration RSD	0.6 %	0.8 %	0.2 %	0.5 %	2.0 %	0.2 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: zL2454942-01D5 WG1976262
Analysis started at: 9/26/2024 1:46:13 PM
Comments <Comment>
Rack: 1
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0011 ppm	66.9185 ppm	0.0023 ppm	0.0287 ppm	0.1752 ppm	0.0000 ppm	19.3787 ppm
Concentration per Run 1	0.0011 ppm	64.1083 ppm	0.0023 ppm	0.0287 ppm	0.1685 ppm	0.0000 ppm	18.6144 ppm
Concentration per Run 2	0.0011 ppm	68.0773 ppm	0.0018 ppm	0.0287 ppm	0.1787 ppm	0.0000 ppm	19.8186 ppm
Concentration per Run 3	0.0011 ppm	68.5698 ppm	0.0028 ppm	0.0286 ppm	0.1783 ppm	0.0001 ppm	19.7030 ppm
Concentration RSD	3.2 %	3.7 %	20.3 %	0.2 %	3.3 %	44.6 %	3.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0007 ppm	0.0010 ppm	0.0070 ppm	0.3068 ppm	2.0323 ppm	1.4755 ppm	-0.0001 ppm
Concentration per Run 1	0.0007 ppm	0.0010 ppm	0.0069 ppm	0.3052 ppm	1.9449 ppm	1.4011 ppm	-0.0004 ppm
Concentration per Run 2	0.0007 ppm	0.0011 ppm	0.0072 ppm	0.3073 ppm	2.0879 ppm	1.5002 ppm	0.0002 ppm
Concentration per Run 3	0.0007 ppm	0.0009 ppm	0.0068 ppm	0.3080 ppm	2.0642 ppm	1.5251 ppm	-0.0001 ppm
Concentration RSD	2.2 %	10.4 %	3.0 %	0.5 %	3.8 %	4.4 %	248.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.4462 ppm	0.0402 ppm	0.0040 ppm	2.6192 ppm	0.0068 ppm	0.0197 ppm	0.0001 ppm
Concentration per Run 1	1.4510 ppm	0.0388 ppm	0.0041 ppm	2.4831 ppm	0.0066 ppm	0.0198 ppm	0.0004 ppm
Concentration per Run 2	1.4527 ppm	0.0409 ppm	0.0039 ppm	2.6475 ppm	0.0067 ppm	0.0194 ppm	-0.0002 ppm
Concentration per Run 3	1.4349 ppm	0.0411 ppm	0.0040 ppm	2.7269 ppm	0.0070 ppm	0.0200 ppm	0.0000 ppm
Concentration RSD	0.7 %	3.2 %	2.7 %	4.7 %	3.7 %	1.4 %	321.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0020 ppm	1.1837 ppm	0.0068 ppm	0.0725 ppm	0.0146 ppm	-0.0023 ppm	0.0037 ppm
Concentration per Run 1	0.0020 ppm	1.1856 ppm	0.0067 ppm	0.0698 ppm	0.0148 ppm	-0.0030 ppm	0.0036 ppm
Concentration per Run 2	0.0005 ppm	1.1854 ppm	0.0069 ppm	0.0740 ppm	0.0149 ppm	-0.0022 ppm	0.0039 ppm
Concentration per Run 3	0.0033 ppm	1.1800 ppm	0.0068 ppm	0.0739 ppm	0.0142 ppm	-0.0017 ppm	0.0036 ppm
Concentration RSD	73.4 %	0.3 %	1.5 %	3.3 %	2.5 %	30.4 %	4.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5870 ppm	101.3607 %	96.5772 %	91.9791 %	98.0147 %	90.1795 %	93.0077 %
Concentration per Run 1	0.5855 ppm	103.4154 %	96.4736 %	92.0354 %	102.4870 %	90.3070 %	92.9172 %
Concentration per Run 2	0.5887 ppm	101.1283 %	96.6246 %	91.8148 %	96.0616 %	90.2426 %	93.0729 %
Concentration per Run 3	0.5867 ppm	99.5383 %	96.6334 %	92.0872 %	95.4954 %	89.9889 %	93.0331 %
Concentration RSD	0.3 %	1.9 %	0.1 %	0.2 %	4.0 %	0.2 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2454206-05 WG1976262
Analysis started at: 9/26/2024 1:52:31 PM
Comments <Comment>
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0926 ppm	0.0000 ppm	0.0495 ppm	0.0420 ppm	0.0000 ppm	25.9431 ppm
Concentration per Run 1	0.0002 ppm	0.0834 ppm	-0.0009 ppm	0.0496 ppm	0.0405 ppm	0.0000 ppm	24.8985 ppm
Concentration per Run 2	0.0004 ppm	0.0949 ppm	0.0009 ppm	0.0495 ppm	0.0427 ppm	0.0000 ppm	26.5631 ppm
Concentration per Run 3	0.0002 ppm	0.0997 ppm	0.0001 ppm	0.0494 ppm	0.0428 ppm	0.0000 ppm	26.3678 ppm
Concentration RSD	56.4 %	9.0 %	164,358.7 %	0.2 %	3.1 %	66.0 %	3.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0019 ppm	0.3071 ppm	4.4376 ppm	0.0016 ppm
Concentration per Run 1	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0019 ppm	0.2925 ppm	4.3083 ppm	0.0014 ppm
Concentration per Run 2	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0019 ppm	0.3143 ppm	4.4479 ppm	0.0019 ppm
Concentration per Run 3	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0017 ppm	0.3146 ppm	4.5567 ppm	0.0015 ppm
Concentration RSD	6.7 %	1,122.4 %	275.8 %	5.6 %	4.1 %	2.8 %	16.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.5182 ppm	0.0568 ppm	0.0008 ppm	24.7660 ppm	0.0006 ppm	-0.0018 ppm	0.0002 ppm
Concentration per Run 1	5.5648 ppm	0.0543 ppm	0.0009 ppm	24.0845 ppm	0.0005 ppm	-0.0018 ppm	0.0004 ppm
Concentration per Run 2	5.5106 ppm	0.0582 ppm	0.0009 ppm	24.8366 ppm	0.0007 ppm	-0.0016 ppm	0.0005 ppm
Concentration per Run 3	5.4792 ppm	0.0580 ppm	0.0006 ppm	25.3771 ppm	0.0007 ppm	-0.0020 ppm	-0.0002 ppm
Concentration RSD	0.8 %	3.9 %	21.5 %	2.6 %	16.6 %	10.2 %	162.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0004 ppm	3.4160 ppm	-0.0008 ppm	0.1137 ppm	0.0027 ppm	-0.0005 ppm	0.0011 ppm
Concentration per Run 1	0.0002 ppm	3.4155 ppm	-0.0008 ppm	0.1094 ppm	0.0032 ppm	-0.0006 ppm	0.0011 ppm
Concentration per Run 2	-0.0001 ppm	3.4311 ppm	-0.0004 ppm	0.1155 ppm	0.0026 ppm	-0.0005 ppm	0.0010 ppm
Concentration per Run 3	0.0009 ppm	3.4014 ppm	-0.0011 ppm	0.1163 ppm	0.0024 ppm	-0.0004 ppm	0.0012 ppm
Concentration RSD	137.4 %	0.4 %	42.9 %	3.3 %	15.4 %	23.3 %	5.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0016 ppm	105.6575 %	95.3055 %	91.0369 %	101.3860 %	88.0230 %	92.0356 %
Concentration per Run 1	0.0015 ppm	109.0420 %	94.6097 %	91.2890 %	105.8359 %	88.3350 %	91.4759 %
Concentration per Run 2	0.0016 ppm	103.7686 %	95.7739 %	90.7336 %	99.3339 %	87.5781 %	92.3666 %
Concentration per Run 3	0.0016 ppm	104.1619 %	95.5330 %	91.0880 %	98.9881 %	88.1560 %	92.2643 %
Concentration RSD	3.2 %	2.8 %	0.6 %	0.3 %	3.8 %	0.4 %	0.5 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1976262-3 WG1976262
Analysis started at: 9/26/2024 1:58:50 PM
Comments <Comment>
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0540 ppm	2.2984 ppm	0.1297 ppm	1.1077 ppm	2.2221 ppm	0.0525 ppm	36.0630 ppm
Concentration per Run 1	0.0541 ppm	2.3378 ppm	0.1306 ppm	1.1070 ppm	2.1899 ppm	0.0530 ppm	36.5304 ppm
Concentration per Run 2	0.0543 ppm	2.2737 ppm	0.1293 ppm	1.1066 ppm	2.2138 ppm	0.0522 ppm	35.7806 ppm
Concentration per Run 3	0.0538 ppm	2.2837 ppm	0.1292 ppm	1.1095 ppm	2.2627 ppm	0.0524 ppm	35.8781 ppm
Concentration RSD	0.5 %	1.5 %	0.6 %	0.1 %	1.7 %	0.8 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0524 ppm	0.4826 ppm	0.1965 ppm	0.2734 ppm	1.3629 ppm	15.8707 ppm	0.0012 ppm
Concentration per Run 1	0.0524 ppm	0.4825 ppm	0.1962 ppm	0.2712 ppm	1.3803 ppm	16.2627 ppm	0.0013 ppm
Concentration per Run 2	0.0524 ppm	0.4832 ppm	0.1957 ppm	0.2764 ppm	1.3529 ppm	15.5186 ppm	0.0012 ppm
Concentration per Run 3	0.0524 ppm	0.4820 ppm	0.1975 ppm	0.2725 ppm	1.3556 ppm	15.8307 ppm	0.0011 ppm
Concentration RSD	0.0 %	0.1 %	0.5 %	1.0 %	1.1 %	2.4 %	7.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	15.4931 ppm	0.5644 ppm	1.0090 ppm	35.8355 ppm	0.4788 ppm	0.5211 ppm	0.5288 ppm
Concentration per Run 1	15.5394 ppm	0.5715 ppm	1.0052 ppm	36.6252 ppm	0.4787 ppm	0.5207 ppm	0.5285 ppm
Concentration per Run 2	15.4569 ppm	0.5601 ppm	1.0121 ppm	35.1940 ppm	0.4804 ppm	0.5222 ppm	0.5305 ppm
Concentration per Run 3	15.4830 ppm	0.5616 ppm	1.0097 ppm	35.6874 ppm	0.4774 ppm	0.5205 ppm	0.5273 ppm
Concentration RSD	0.3 %	1.1 %	0.4 %	2.0 %	0.3 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1314 ppm	4.3340 ppm	0.9896 ppm	1.1240 ppm	1.0285 ppm	0.1190 ppm	0.5124 ppm
Concentration per Run 1	0.1307 ppm	4.3364 ppm	0.9906 ppm	1.1373 ppm	1.0249 ppm	0.1195 ppm	0.5119 ppm
Concentration per Run 2	0.1316 ppm	4.3391 ppm	0.9883 ppm	1.1141 ppm	1.0266 ppm	0.1185 ppm	0.5100 ppm
Concentration per Run 3	0.1317 ppm	4.3264 ppm	0.9899 ppm	1.1205 ppm	1.0340 ppm	0.1190 ppm	0.5152 ppm
Concentration RSD	0.4 %	0.2 %	0.1 %	1.1 %	0.5 %	0.4 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4612 ppm	102.2235 %	95.3726 %	90.4836 %	97.5780 %	84.5567 %	92.0095 %
Concentration per Run 1	0.4616 ppm	100.4896 %	95.4579 %	90.5383 %	97.2866 %	84.6216 %	92.5748 %
Concentration per Run 2	0.4613 ppm	103.2037 %	95.2902 %	90.5674 %	97.9530 %	84.5172 %	91.7441 %
Concentration per Run 3	0.4607 ppm	102.9773 %	95.3697 %	90.3452 %	97.4945 %	84.5312 %	91.7097 %
Concentration RSD	0.1 %	1.5 %	0.1 %	0.1 %	0.3 %	0.1 %	0.5 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1976262-4 WG1976262
Analysis started at: 9/26/2024 2:05:00 PM
Comments <Comment>
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0556 ppm	2.3085 ppm	0.1326 ppm	1.1325 ppm	2.2411 ppm	0.0528 ppm	36.5299 ppm
Concentration per Run 1	0.0554 ppm	2.2680 ppm	0.1331 ppm	1.1348 ppm	2.2217 ppm	0.0519 ppm	36.0013 ppm
Concentration per Run 2	0.0549 ppm	2.3085 ppm	0.1328 ppm	1.1343 ppm	2.2581 ppm	0.0530 ppm	36.8129 ppm
Concentration per Run 3	0.0565 ppm	2.3488 ppm	0.1321 ppm	1.1285 ppm	2.2437 ppm	0.0533 ppm	36.7755 ppm
Concentration RSD	1.4 %	1.8 %	0.4 %	0.3 %	0.8 %	1.4 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0536 ppm	0.4945 ppm	0.2017 ppm	0.2810 ppm	1.3737 ppm	15.9963 ppm	0.0014 ppm
Concentration per Run 1	0.0536 ppm	0.4951 ppm	0.2014 ppm	0.2810 ppm	1.3569 ppm	15.6597 ppm	0.0013 ppm
Concentration per Run 2	0.0536 ppm	0.4937 ppm	0.2025 ppm	0.2811 ppm	1.3834 ppm	15.9244 ppm	0.0016 ppm
Concentration per Run 3	0.0537 ppm	0.4947 ppm	0.2014 ppm	0.2809 ppm	1.3808 ppm	16.4046 ppm	0.0012 ppm
Concentration RSD	0.1 %	0.1 %	0.3 %	0.0 %	1.1 %	2.4 %	16.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	15.9083 ppm	0.5683 ppm	1.0364 ppm	36.0319 ppm	0.4907 ppm	0.5345 ppm	0.5404 ppm
Concentration per Run 1	15.9115 ppm	0.5582 ppm	1.0357 ppm	35.4492 ppm	0.4910 ppm	0.5351 ppm	0.5428 ppm
Concentration per Run 2	15.8509 ppm	0.5728 ppm	1.0394 ppm	35.7133 ppm	0.4907 ppm	0.5324 ppm	0.5410 ppm
Concentration per Run 3	15.9624 ppm	0.5740 ppm	1.0341 ppm	36.9331 ppm	0.4904 ppm	0.5360 ppm	0.5374 ppm
Concentration RSD	0.4 %	1.5 %	0.3 %	2.2 %	0.1 %	0.3 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1341 ppm	4.4733 ppm	1.0122 ppm	1.1325 ppm	1.0572 ppm	0.1219 ppm	0.5256 ppm
Concentration per Run 1	0.1349 ppm	4.4957 ppm	1.0149 ppm	1.1124 ppm	1.0586 ppm	0.1224 ppm	0.5260 ppm
Concentration per Run 2	0.1362 ppm	4.4699 ppm	1.0114 ppm	1.1355 ppm	1.0608 ppm	0.1210 ppm	0.5277 ppm
Concentration per Run 3	0.1313 ppm	4.4545 ppm	1.0102 ppm	1.1496 ppm	1.0523 ppm	0.1224 ppm	0.5232 ppm
Concentration RSD	1.9 %	0.5 %	0.2 %	1.7 %	0.4 %	0.7 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4723 ppm	102.4554 %	95.0230 %	89.9223 %	98.2019 %	83.8513 %	91.5132 %
Concentration per Run 1	0.4711 ppm	103.4115 %	95.1313 %	89.8860 %	100.1532 %	83.9320 %	91.4683 %
Concentration per Run 2	0.4719 ppm	102.0878 %	95.4212 %	89.5106 %	97.7648 %	83.4713 %	91.4570 %
Concentration per Run 3	0.4740 ppm	101.8668 %	94.5165 %	90.3703 %	96.6877 %	84.1505 %	91.6144 %
Concentration RSD	0.3 %	0.8 %	0.5 %	0.5 %	1.8 %	0.4 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1976262-5 WG1976262
Analysis started at: 9/26/2024 2:11:10 PM
Comments <Comment>
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0512 ppm	2.1479 ppm	0.1244 ppm	1.0628 ppm	2.0843 ppm	0.0494 ppm	35.0302 ppm
Concentration per Run 1	0.0510 ppm	2.1074 ppm	0.1241 ppm	1.0608 ppm	2.0579 ppm	0.0486 ppm	34.6593 ppm
Concentration per Run 2	0.0513 ppm	2.1514 ppm	0.1243 ppm	1.0631 ppm	2.1212 ppm	0.0496 ppm	35.1780 ppm
Concentration per Run 3	0.0512 ppm	2.1850 ppm	0.1248 ppm	1.0644 ppm	2.0737 ppm	0.0500 ppm	35.2534 ppm
Concentration RSD	0.3 %	1.8 %	0.3 %	0.2 %	1.6 %	1.5 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0494 ppm	0.4565 ppm	0.1875 ppm	0.2600 ppm	1.2909 ppm	15.2886 ppm	0.0011 ppm
Concentration per Run 1	0.0493 ppm	0.4565 ppm	0.1876 ppm	0.2594 ppm	1.2727 ppm	14.9131 ppm	0.0010 ppm
Concentration per Run 2	0.0494 ppm	0.4573 ppm	0.1869 ppm	0.2600 ppm	1.2969 ppm	15.2488 ppm	0.0010 ppm
Concentration per Run 3	0.0495 ppm	0.4558 ppm	0.1879 ppm	0.2605 ppm	1.3030 ppm	15.7039 ppm	0.0012 ppm
Concentration RSD	0.2 %	0.2 %	0.3 %	0.2 %	1.2 %	2.6 %	11.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	15.0604 ppm	0.5333 ppm	0.9789 ppm	35.0509 ppm	0.4555 ppm	0.4977 ppm	0.4948 ppm
Concentration per Run 1	15.0735 ppm	0.5278 ppm	0.9782 ppm	34.1205 ppm	0.4559 ppm	0.4989 ppm	0.4943 ppm
Concentration per Run 2	14.9832 ppm	0.5343 ppm	0.9775 ppm	34.9066 ppm	0.4555 ppm	0.4969 ppm	0.4951 ppm
Concentration per Run 3	15.1247 ppm	0.5377 ppm	0.9811 ppm	36.1255 ppm	0.4550 ppm	0.4973 ppm	0.4949 ppm
Concentration RSD	0.5 %	0.9 %	0.2 %	2.9 %	0.1 %	0.2 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1253 ppm	3.9478 ppm	0.9694 ppm	1.0779 ppm	0.9907 ppm	0.1141 ppm	0.4869 ppm
Concentration per Run 1	0.1261 ppm	3.9515 ppm	0.9704 ppm	1.0590 ppm	0.9890 ppm	0.1141 ppm	0.4858 ppm
Concentration per Run 2	0.1238 ppm	3.9470 ppm	0.9682 ppm	1.0797 ppm	0.9886 ppm	0.1144 ppm	0.4856 ppm
Concentration per Run 3	0.1259 ppm	3.9451 ppm	0.9697 ppm	1.0950 ppm	0.9945 ppm	0.1138 ppm	0.4892 ppm
Concentration RSD	1.0 %	0.1 %	0.1 %	1.7 %	0.3 %	0.3 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4383 ppm	103.5693 %	94.8271 %	90.5521 %	98.5384 %	84.7036 %	91.8169 %
Concentration per Run 1	0.4378 ppm	104.2939 %	94.5639 %	90.6921 %	100.6654 %	84.6824 %	91.8200 %
Concentration per Run 2	0.4393 ppm	102.9013 %	94.7520 %	90.4750 %	97.8487 %	84.6181 %	91.7574 %
Concentration per Run 3	0.4377 ppm	103.5127 %	95.1655 %	90.4893 %	97.1011 %	84.8104 %	91.8732 %
Concentration RSD	0.2 %	0.7 %	0.3 %	0.1 %	1.9 %	0.1 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1976262-6D5 WG1976262
Analysis started at: 9/26/2024 2:17:21 PM
Comments <Comment>
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0161 ppm	-0.0013 ppm	0.0131 ppm	0.0083 ppm	0.0000 ppm	5.3117 ppm
Concentration per Run 1	-0.0001 ppm	0.0179 ppm	-0.0024 ppm	0.0132 ppm	0.0082 ppm	0.0000 ppm	5.1458 ppm
Concentration per Run 2	0.0001 ppm	0.0147 ppm	-0.0004 ppm	0.0133 ppm	0.0084 ppm	0.0000 ppm	5.3923 ppm
Concentration per Run 3	0.0003 ppm	0.0157 ppm	-0.0011 ppm	0.0126 ppm	0.0084 ppm	0.0000 ppm	5.3969 ppm
Concentration RSD	203.4 %	10.4 %	78.4 %	2.9 %	1.4 %	157.2 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0008 ppm	0.0633 ppm	0.8233 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0609 ppm	0.8346 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0009 ppm	0.0641 ppm	0.8034 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0007 ppm	0.0650 ppm	0.8320 ppm	0.0004 ppm
Concentration RSD	49.2 %	130.5 %	157.3 %	9.1 %	3.4 %	2.1 %	138.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.1210 ppm	0.0116 ppm	0.0009 ppm	4.6393 ppm	0.0000 ppm	-0.0007 ppm	0.0005 ppm
Concentration per Run 1	1.1173 ppm	0.0114 ppm	0.0010 ppm	4.5392 ppm	0.0001 ppm	-0.0009 ppm	0.0005 ppm
Concentration per Run 2	1.1243 ppm	0.0116 ppm	0.0009 ppm	4.6615 ppm	-0.0001 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 3	1.1214 ppm	0.0118 ppm	0.0007 ppm	4.7172 ppm	-0.0001 ppm	-0.0002 ppm	0.0011 ppm
Concentration RSD	0.3 %	2.0 %	18.3 %	2.0 %	678.4 %	57.9 %	105.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	0.6465 ppm	0.0012 ppm	0.0228 ppm	0.0005 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 1	0.0007 ppm	0.6455 ppm	0.0014 ppm	0.0221 ppm	0.0004 ppm	-0.0011 ppm	0.0002 ppm
Concentration per Run 2	0.0007 ppm	0.6468 ppm	0.0013 ppm	0.0231 ppm	0.0004 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 3	0.0014 ppm	0.6472 ppm	0.0009 ppm	0.0233 ppm	0.0005 ppm	-0.0009 ppm	0.0000 ppm
Concentration RSD	43.4 %	0.1 %	25.4 %	2.8 %	17.1 %	10.3 %	122.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	103.7016 %	97.9781 %	93.9673 %	99.6274 %	94.1526 %	94.3878 %
Concentration per Run 1	0.0004 ppm	105.3553 %	97.8459 %	94.2123 %	103.6062 %	94.2847 %	94.4210 %
Concentration per Run 2	0.0004 ppm	102.7205 %	97.8713 %	93.6263 %	97.8115 %	93.7309 %	94.2528 %
Concentration per Run 3	0.0005 ppm	103.0290 %	98.2172 %	94.0632 %	97.4644 %	94.4423 %	94.4897 %
Concentration RSD	11.4 %	1.4 %	0.2 %	0.3 %	3.5 %	0.4 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCV
Analysis started at: 9/26/2024 2:23:43 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5187 ppm	0.5215 ppm	0.5063 ppm	0.5245 ppm	0.5228 ppm	0.5125 ppm	0.4995 ppm
Concentration per Run 1	0.5171 ppm	0.5036 ppm	0.5045 ppm	0.5244 ppm	0.5072 ppm	0.4988 ppm	0.4870 ppm
Concentration per Run 2	0.5162 ppm	0.5309 ppm	0.5073 ppm	0.5257 ppm	0.5311 ppm	0.5191 ppm	0.5055 ppm
Concentration per Run 3	0.5226 ppm	0.5298 ppm	0.5070 ppm	0.5235 ppm	0.5301 ppm	0.5194 ppm	0.5060 ppm
Recovery Percentage 1	103.734 %	104.296 %	101.256 %	104.906 %	104.559 %	102.493 %	99.896 %
Concentration RSD	0.7 %	3.0 %	0.3 %	0.2 %	2.6 %	2.3 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4911 ppm	0.4762 ppm	0.4927 ppm	0.5154 ppm	0.5099 ppm	5.4264 ppm	0.5369 ppm
Concentration per Run 1	0.4919 ppm	0.4760 ppm	0.4905 ppm	0.5127 ppm	0.4961 ppm	5.2332 ppm	0.5193 ppm
Concentration per Run 2	0.4913 ppm	0.4754 ppm	0.4906 ppm	0.5130 ppm	0.5167 ppm	5.5276 ppm	0.5483 ppm
Concentration per Run 3	0.4901 ppm	0.4773 ppm	0.4971 ppm	0.5205 ppm	0.5168 ppm	5.5184 ppm	0.5431 ppm
Recovery Percentage 1	98.221 %	95.247 %	98.545 %	103.081 %	101.972 %	108.529 %	107.381 %
Concentration RSD	0.2 %	0.2 %	0.8 %	0.9 %	2.3 %	3.1 %	2.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5154 ppm	0.4905 ppm	0.5070 ppm	10.6441 ppm	0.4687 ppm	0.4802 ppm	0.4938 ppm
Concentration per Run 1	0.5148 ppm	0.4765 ppm	0.5058 ppm	10.3117 ppm	0.4686 ppm	0.4804 ppm	0.4946 ppm
Concentration per Run 2	0.5122 ppm	0.4977 ppm	0.5086 ppm	10.8734 ppm	0.4666 ppm	0.4785 ppm	0.4935 ppm
Concentration per Run 3	0.5192 ppm	0.4974 ppm	0.5066 ppm	10.7472 ppm	0.4709 ppm	0.4816 ppm	0.4932 ppm
Recovery Percentage 1	103.084 %	98.104 %	101.402 %	106.441 %	93.737 %	96.035 %	98.757 %
Concentration RSD	0.7 %	2.5 %	0.3 %	2.8 %	0.5 %	0.3 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5132 ppm	5.3351 ppm	0.5015 ppm	0.4974 ppm	0.5121 ppm	0.5019 ppm	0.5023 ppm
Concentration per Run 1	0.5128 ppm	5.3394 ppm	0.5010 ppm	0.4828 ppm	0.5089 ppm	0.5017 ppm	0.4989 ppm
Concentration per Run 2	0.5122 ppm	5.3229 ppm	0.5013 ppm	0.5051 ppm	0.5104 ppm	0.5019 ppm	0.5005 ppm
Concentration per Run 3	0.5146 ppm	5.3428 ppm	0.5020 ppm	0.5044 ppm	0.5171 ppm	0.5021 ppm	0.5076 ppm
Recovery Percentage 1	102.640 %	101.620 %	100.292 %	99.485 %	102.427 %	100.379 %	100.468 %
Concentration RSD	0.3 %	0.2 %	0.1 %	2.5 %	0.9 %	0.0 %	0.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4494 ppm	103.2731 %	96.8627 %	93.9832 %	98.5079 %	90.4004 %	94.0649 %
Concentration per Run 1	0.4500 ppm	105.3356 %	97.4339 %	94.2380 %	101.9361 %	90.5865 %	94.6665 %
Concentration per Run 2	0.4473 ppm	102.1765 %	97.3053 %	93.7648 %	96.8207 %	90.5846 %	94.3102 %
Concentration per Run 3	0.4510 ppm	102.3073 %	95.8488 %	93.9467 %	96.7669 %	90.0301 %	93.2180 %
Recovery Percentage 1	89.889 %						
Concentration RSD	0.4 %	1.7 %	0.9 %	0.3 %	3.0 %	0.4 %	0.8 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCB
Analysis started at: 9/26/2024 2:29:47 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0005 ppm	-0.0004 ppm	0.0025 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	-0.0001 ppm	0.0013 ppm	0.0004 ppm	0.0025 ppm	0.0000 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 2	0.0000 ppm	-0.0009 ppm	-0.0020 ppm	0.0024 ppm	0.0000 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 3	0.0001 ppm	-0.0020 ppm	0.0003 ppm	0.0025 ppm	0.0000 ppm	0.0000 ppm	-0.0009 ppm
Recovery Percentage 1	-0.123 %	-0.533 %	-8.431 %	8.218 %	-0.072 %	0.537 %	-0.006 %
Concentration RSD	651.0 %	312.2 %	319.1 %	2.2 %	273.4 %	51.2 %	23,952.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0014 ppm	0.0081 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0015 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0012 ppm	0.0143 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0015 ppm	0.0100 ppm	-0.0002 ppm
Recovery Percentage 1	-0.422 %	0.168 %	-0.777 %	3.559 %	2.777 %	0.322 %	-2.776 %
Concentration RSD	136.6 %	192.9 %	118.9 %	4.8 %	12.6 %	91.3 %	13.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0012 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 1	-0.0004 ppm	0.0000 ppm	0.0002 ppm	-0.0010 ppm	-0.0001 ppm	-0.0005 ppm	-0.0008 ppm
Concentration per Run 2	-0.0019 ppm	-0.0002 ppm	0.0003 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 3	-0.0013 ppm	-0.0001 ppm	0.0000 ppm	0.0020 ppm	0.0000 ppm	-0.0004 ppm	0.0000 ppm
Recovery Percentage 1	-1.173 %	-0.751 %	0.328 %	0.023 %	-0.005 %	-2.606 %	-0.240 %
Concentration RSD	65.4 %	159.4 %	77.1 %	324.5 %	10,841.5 %	131.6 %	548.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0007 ppm	-0.0004 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 3	0.0008 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0000 ppm
Recovery Percentage 1	5.230 %	-0.062 %	0.187 %	0.489 %	-0.500 %	-1.972 %	-1.222 %
Concentration RSD	71.4 %	36.6 %	229.2 %	67.2 %	130.5 %	48.0 %	100.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	103.5932 %	98.2288 %	95.1166 %	98.4975 %	96.6490 %	95.1597 %
Concentration per Run 1	0.0000 ppm	104.2189 %	98.4923 %	94.3958 %	100.5438 %	95.7425 %	95.3719 %
Concentration per Run 2	0.0001 ppm	103.6742 %	98.5548 %	95.9834 %	98.4542 %	97.6021 %	95.3996 %
Concentration per Run 3	0.0000 ppm	102.8866 %	97.6393 %	94.9707 %	96.4943 %	96.6025 %	94.7076 %
Recovery Percentage 1	0.531 %						
Concentration RSD	240.6 %	0.6 %	0.5 %	0.8 %	2.1 %	1.0 %	0.4 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1976676-1 WG1976676
Analysis started at: 9/26/2024 2:40:49 PM
Comments <Comment>
Rack: 1
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0033 ppm	-0.0039 ppm	0.0043 ppm	0.0000 ppm	0.0000 ppm	0.0082 ppm
Concentration per Run 1	0.0003 ppm	0.0037 ppm	-0.0039 ppm	0.0043 ppm	0.0000 ppm	0.0000 ppm	0.0080 ppm
Concentration per Run 2	0.0000 ppm	0.0056 ppm	-0.0037 ppm	0.0046 ppm	0.0001 ppm	0.0000 ppm	0.0069 ppm
Concentration per Run 3	0.0002 ppm	0.0005 ppm	-0.0041 ppm	0.0040 ppm	0.0000 ppm	0.0000 ppm	0.0097 ppm
Concentration RSD	82.4 %	79.6 %	5.7 %	7.2 %	345.6 %	253.6 %	17.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	-0.0006 ppm	-0.0001 ppm	0.0008 ppm	0.0015 ppm	0.0175 ppm	-0.0042 ppm
Concentration per Run 1	0.0001 ppm	-0.0006 ppm	0.0003 ppm	0.0009 ppm	0.0015 ppm	0.0074 ppm	-0.0044 ppm
Concentration per Run 2	0.0000 ppm	-0.0007 ppm	-0.0001 ppm	0.0007 ppm	0.0024 ppm	0.0166 ppm	-0.0047 ppm
Concentration per Run 3	0.0001 ppm	-0.0006 ppm	-0.0004 ppm	0.0008 ppm	0.0007 ppm	0.0286 ppm	-0.0036 ppm
Concentration RSD	77.5 %	7.2 %	452.7 %	8.4 %	56.6 %	60.4 %	12.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0005 ppm	0.0000 ppm	0.0003 ppm	145.0915 ppm	-0.0007 ppm	-0.0021 ppm	-0.0001 ppm
Concentration per Run 1	0.0019 ppm	0.0000 ppm	0.0004 ppm	146.8730 ppm	-0.0005 ppm	-0.0022 ppm	0.0005 ppm
Concentration per Run 2	-0.0004 ppm	0.0001 ppm	0.0001 ppm	148.0947 ppm	-0.0008 ppm	-0.0019 ppm	-0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0003 ppm	140.3067 ppm	-0.0009 ppm	-0.0022 ppm	-0.0006 ppm
Concentration RSD	222.5 %	119.4 %	52.8 %	2.9 %	25.4 %	9.1 %	448.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	0.0333 ppm	0.0006 ppm	0.0001 ppm	-0.0002 ppm	-0.0042 ppm	-0.0002 ppm
Concentration per Run 1	0.0003 ppm	0.0315 ppm	0.0007 ppm	0.0001 ppm	-0.0003 ppm	-0.0044 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0356 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	-0.0043 ppm	-0.0002 ppm
Concentration per Run 3	0.0011 ppm	0.0328 ppm	0.0005 ppm	0.0000 ppm	-0.0002 ppm	-0.0039 ppm	-0.0003 ppm
Concentration RSD	118.0 %	6.4 %	12.8 %	86.8 %	91.7 %	6.3 %	40.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	98.9926 %	91.3629 %	88.7204 %	94.9080 %	75.6152 %	89.3516 %
Concentration per Run 1	0.0002 ppm	99.2679 %	91.1918 %	88.8029 %	95.8900 %	75.6381 %	89.3186 %
Concentration per Run 2	0.0002 ppm	98.8346 %	91.3294 %	88.5953 %	95.1495 %	75.5914 %	89.1445 %
Concentration per Run 3	0.0002 ppm	98.8752 %	91.5673 %	88.7629 %	93.6844 %	75.6162 %	89.5916 %
Concentration RSD	12.0 %	0.2 %	0.2 %	0.1 %	1.2 %	0.0 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1976676-2 WG1976676
Analysis started at: 9/26/2024 2:47:20 PM
Comments <Comment>
Rack: 1
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0496 ppm	2.0226 ppm	0.1157 ppm	0.9324 ppm	2.0151 ppm	0.0500 ppm	9.5956 ppm
Concentration per Run 1	0.0499 ppm	2.0216 ppm	0.1155 ppm	0.9327 ppm	2.0209 ppm	0.0499 ppm	9.5573 ppm
Concentration per Run 2	0.0496 ppm	2.0164 ppm	0.1141 ppm	0.9328 ppm	2.0012 ppm	0.0502 ppm	9.6020 ppm
Concentration per Run 3	0.0493 ppm	2.0299 ppm	0.1175 ppm	0.9318 ppm	2.0231 ppm	0.0499 ppm	9.6276 ppm
Concentration RSD	0.6 %	0.3 %	1.5 %	0.1 %	0.6 %	0.3 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0509 ppm	0.4989 ppm	0.1920 ppm	0.2599 ppm	0.9946 ppm	10.4545 ppm	-0.0042 ppm
Concentration per Run 1	0.0508 ppm	0.4982 ppm	0.1918 ppm	0.2591 ppm	0.9961 ppm	10.4137 ppm	-0.0045 ppm
Concentration per Run 2	0.0509 ppm	0.4987 ppm	0.1926 ppm	0.2615 ppm	0.9955 ppm	10.3767 ppm	-0.0045 ppm
Concentration per Run 3	0.0508 ppm	0.4998 ppm	0.1915 ppm	0.2592 ppm	0.9923 ppm	10.5730 ppm	-0.0036 ppm
Concentration RSD	0.2 %	0.2 %	0.3 %	0.5 %	0.2 %	1.0 %	12.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.0919 ppm	0.4850 ppm	0.9791 ppm	154.9021 ppm	0.4943 ppm	0.5128 ppm	0.5197 ppm
Concentration per Run 1	9.1234 ppm	0.4825 ppm	0.9785 ppm	160.5293 ppm	0.4939 ppm	0.5130 ppm	0.5201 ppm
Concentration per Run 2	9.0674 ppm	0.4856 ppm	0.9782 ppm	153.5062 ppm	0.4941 ppm	0.5129 ppm	0.5192 ppm
Concentration per Run 3	9.0849 ppm	0.4870 ppm	0.9806 ppm	150.6709 ppm	0.4950 ppm	0.5125 ppm	0.5197 ppm
Concentration RSD	0.3 %	0.5 %	0.1 %	3.3 %	0.1 %	0.1 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1108 ppm	0.8478 ppm	0.9112 ppm	0.9588 ppm	0.9929 ppm	0.1070 ppm	0.4964 ppm
Concentration per Run 1	0.1119 ppm	0.8498 ppm	0.9091 ppm	0.9576 ppm	0.9928 ppm	0.1072 ppm	0.4965 ppm
Concentration per Run 2	0.1082 ppm	0.8459 ppm	0.9119 ppm	0.9588 ppm	0.9943 ppm	0.1066 ppm	0.4959 ppm
Concentration per Run 3	0.1123 ppm	0.8477 ppm	0.9127 ppm	0.9601 ppm	0.9916 ppm	0.1071 ppm	0.4970 ppm
Concentration RSD	2.0 %	0.2 %	0.2 %	0.1 %	0.1 %	0.3 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4964 ppm	98.4386 %	90.8647 %	88.4815 %	94.1962 %	74.6568 %	88.6373 %
Concentration per Run 1	0.4951 ppm	99.1104 %	90.7082 %	88.5174 %	94.5109 %	74.6978 %	88.4518 %
Concentration per Run 2	0.4977 ppm	98.3509 %	91.0297 %	88.3093 %	94.1331 %	74.3933 %	88.7194 %
Concentration per Run 3	0.4963 ppm	97.8546 %	90.8562 %	88.6177 %	93.9447 %	74.8793 %	88.7406 %
Concentration RSD	0.3 %	0.6 %	0.2 %	0.2 %	0.3 %	0.3 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2454653-03 WG1976676
Analysis started at: 9/26/2024 2:53:40 PM
Comments <Comment>
Rack: 1
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0124 ppm	-0.0033 ppm	0.0066 ppm	0.0052 ppm	0.0000 ppm	0.2575 ppm
Concentration per Run 1	0.0001 ppm	0.0123 ppm	-0.0035 ppm	0.0068 ppm	0.0051 ppm	0.0001 ppm	0.2559 ppm
Concentration per Run 2	0.0002 ppm	0.0119 ppm	-0.0028 ppm	0.0068 ppm	0.0052 ppm	0.0000 ppm	0.2572 ppm
Concentration per Run 3	0.0002 ppm	0.0129 ppm	-0.0035 ppm	0.0064 ppm	0.0052 ppm	0.0000 ppm	0.2593 ppm
Concentration RSD	50.8 %	4.0 %	13.5 %	3.3 %	1.2 %	118.7 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	-0.0006 ppm	0.0007 ppm	0.0022 ppm	0.2331 ppm	0.0349 ppm	-0.0020 ppm
Concentration per Run 1	0.0001 ppm	-0.0007 ppm	0.0007 ppm	0.0022 ppm	0.2272 ppm	0.0382 ppm	-0.0021 ppm
Concentration per Run 2	0.0001 ppm	-0.0007 ppm	0.0008 ppm	0.0023 ppm	0.2359 ppm	0.0283 ppm	-0.0020 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	0.0007 ppm	0.0022 ppm	0.2361 ppm	0.0383 ppm	-0.0019 ppm
Concentration RSD	17.5 %	14.7 %	8.7 %	1.2 %	2.2 %	16.4 %	5.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0613 ppm	0.0036 ppm	0.0016 ppm	53.5437 ppm	0.0068 ppm	-0.0015 ppm	0.0005 ppm
Concentration per Run 1	0.0595 ppm	0.0036 ppm	0.0017 ppm	52.7067 ppm	0.0067 ppm	-0.0013 ppm	0.0005 ppm
Concentration per Run 2	0.0636 ppm	0.0037 ppm	0.0016 ppm	54.0569 ppm	0.0070 ppm	-0.0013 ppm	0.0013 ppm
Concentration per Run 3	0.0609 ppm	0.0036 ppm	0.0016 ppm	53.8676 ppm	0.0068 ppm	-0.0017 ppm	-0.0002 ppm
Concentration RSD	3.4 %	1.3 %	4.0 %	1.4 %	2.1 %	17.3 %	144.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	0.0586 ppm	0.0003 ppm	0.0025 ppm	-0.0001 ppm	-0.0032 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0580 ppm	0.0005 ppm	0.0024 ppm	-0.0001 ppm	-0.0031 ppm	-0.0001 ppm
Concentration per Run 2	0.0003 ppm	0.0588 ppm	0.0002 ppm	0.0026 ppm	-0.0001 ppm	-0.0026 ppm	0.0002 ppm
Concentration per Run 3	0.0011 ppm	0.0589 ppm	0.0001 ppm	0.0025 ppm	-0.0001 ppm	-0.0039 ppm	0.0000 ppm
Concentration RSD	116.8 %	0.8 %	78.6 %	2.6 %	32.0 %	20.1 %	280.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0830 ppm	100.2900 %	94.7765 %	91.4073 %	97.0289 %	81.4170 %	93.4085 %
Concentration per Run 1	0.0832 ppm	100.5073 %	94.9098 %	91.2437 %	99.2698 %	80.8747 %	93.8538 %
Concentration per Run 2	0.0833 ppm	100.1771 %	94.7095 %	91.4986 %	95.8141 %	81.6252 %	93.1383 %
Concentration per Run 3	0.0824 ppm	100.1856 %	94.7101 %	91.4795 %	96.0027 %	81.7511 %	93.2332 %
Concentration RSD	0.6 %	0.2 %	0.1 %	0.2 %	2.0 %	0.6 %	0.4 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1976676-3 WG1976676
Analysis started at: 9/26/2024 3:00:02 PM
Comments <Comment>
Rack: 1
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0483 ppm	2.0514 ppm	0.1144 ppm	0.9361 ppm	2.0548 ppm	0.0497 ppm	9.9532 ppm
Concentration per Run 1	0.0481 ppm	2.0361 ppm	0.1155 ppm	0.9361 ppm	2.0265 ppm	0.0493 ppm	9.8398 ppm
Concentration per Run 2	0.0481 ppm	2.0521 ppm	0.1133 ppm	0.9371 ppm	2.0497 ppm	0.0498 ppm	10.0016 ppm
Concentration per Run 3	0.0485 ppm	2.0659 ppm	0.1143 ppm	0.9351 ppm	2.0882 ppm	0.0500 ppm	10.0181 ppm
Concentration RSD	0.5 %	0.7 %	1.0 %	0.1 %	1.5 %	0.7 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0508 ppm	0.4903 ppm	0.1927 ppm	0.2598 ppm	1.2306 ppm	10.5683 ppm	-0.0022 ppm
Concentration per Run 1	0.0508 ppm	0.4894 ppm	0.1931 ppm	0.2587 ppm	1.2188 ppm	10.5689 ppm	-0.0021 ppm
Concentration per Run 2	0.0508 ppm	0.4897 ppm	0.1925 ppm	0.2601 ppm	1.2342 ppm	10.5557 ppm	-0.0022 ppm
Concentration per Run 3	0.0510 ppm	0.4918 ppm	0.1925 ppm	0.2606 ppm	1.2389 ppm	10.5803 ppm	-0.0023 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %	0.4 %	0.9 %	0.1 %	4.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.3460 ppm	0.4891 ppm	0.9890 ppm	65.9776 ppm	0.4950 ppm	0.5112 ppm	0.5017 ppm
Concentration per Run 1	9.3235 ppm	0.4795 ppm	0.9878 ppm	65.5677 ppm	0.4936 ppm	0.5088 ppm	0.5008 ppm
Concentration per Run 2	9.3397 ppm	0.4923 ppm	0.9920 ppm	66.1060 ppm	0.4955 ppm	0.5121 ppm	0.5026 ppm
Concentration per Run 3	9.3748 ppm	0.4954 ppm	0.9871 ppm	66.2589 ppm	0.4959 ppm	0.5126 ppm	0.5018 ppm
Concentration RSD	0.3 %	1.7 %	0.3 %	0.6 %	0.3 %	0.4 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1097 ppm	0.8556 ppm	0.9283 ppm	0.9729 ppm	0.9937 ppm	0.1108 ppm	0.4948 ppm
Concentration per Run 1	0.1107 ppm	0.8530 ppm	0.9304 ppm	0.9633 ppm	0.9961 ppm	0.1108 ppm	0.4977 ppm
Concentration per Run 2	0.1101 ppm	0.8572 ppm	0.9278 ppm	0.9747 ppm	0.9908 ppm	0.1112 ppm	0.4932 ppm
Concentration per Run 3	0.1084 ppm	0.8567 ppm	0.9267 ppm	0.9806 ppm	0.9944 ppm	0.1103 ppm	0.4934 ppm
Concentration RSD	1.1 %	0.3 %	0.2 %	0.9 %	0.3 %	0.4 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5605 ppm	99.7875 %	93.9589 %	90.7292 %	95.1777 %	79.0420 %	91.6178 %
Concentration per Run 1	0.5592 ppm	99.9899 %	93.8795 %	90.9571 %	96.1844 %	79.4431 %	91.1904 %
Concentration per Run 2	0.5592 ppm	99.2888 %	94.0106 %	90.5835 %	94.7564 %	78.8414 %	91.8900 %
Concentration per Run 3	0.5631 ppm	100.0839 %	93.9865 %	90.6469 %	94.5922 %	78.8416 %	91.7731 %
Concentration RSD	0.4 %	0.4 %	0.1 %	0.2 %	0.9 %	0.4 %	0.4 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1976676-4 WG1976676
Analysis started at: 9/26/2024 3:06:13 PM
Comments <Comment>
Rack: 1
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0129 ppm	-0.0022 ppm	0.0068 ppm	0.0050 ppm	0.0000 ppm	0.2663 ppm
Concentration per Run 1	0.0002 ppm	0.0123 ppm	-0.0022 ppm	0.0071 ppm	0.0049 ppm	0.0000 ppm	0.2602 ppm
Concentration per Run 2	0.0002 ppm	0.0139 ppm	-0.0020 ppm	0.0068 ppm	0.0049 ppm	0.0000 ppm	0.2689 ppm
Concentration per Run 3	0.0001 ppm	0.0126 ppm	-0.0025 ppm	0.0065 ppm	0.0051 ppm	0.0000 ppm	0.2697 ppm
Concentration RSD	19.1 %	6.3 %	13.3 %	3.8 %	1.9 %	178.2 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	-0.0006 ppm	0.0010 ppm	0.0028 ppm	0.2320 ppm	0.0355 ppm	-0.0017 ppm
Concentration per Run 1	0.0001 ppm	-0.0007 ppm	0.0011 ppm	0.0028 ppm	0.2264 ppm	0.0293 ppm	-0.0019 ppm
Concentration per Run 2	0.0001 ppm	-0.0007 ppm	0.0007 ppm	0.0029 ppm	0.2348 ppm	0.0311 ppm	-0.0013 ppm
Concentration per Run 3	0.0002 ppm	-0.0004 ppm	0.0012 ppm	0.0026 ppm	0.2348 ppm	0.0461 ppm	-0.0018 ppm
Concentration RSD	30.7 %	29.3 %	30.1 %	5.1 %	2.1 %	26.0 %	19.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0632 ppm	0.0036 ppm	0.0014 ppm	53.5932 ppm	0.0065 ppm	-0.0017 ppm	0.0003 ppm
Concentration per Run 1	0.0621 ppm	0.0035 ppm	0.0013 ppm	52.7993 ppm	0.0067 ppm	-0.0020 ppm	0.0000 ppm
Concentration per Run 2	0.0644 ppm	0.0037 ppm	0.0015 ppm	53.8238 ppm	0.0065 ppm	-0.0012 ppm	0.0005 ppm
Concentration per Run 3	0.0630 ppm	0.0037 ppm	0.0015 ppm	54.1566 ppm	0.0064 ppm	-0.0018 ppm	0.0005 ppm
Concentration RSD	1.8 %	2.8 %	8.6 %	1.3 %	2.9 %	25.0 %	87.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	0.0574 ppm	0.0003 ppm	0.0025 ppm	0.0001 ppm	-0.0033 ppm	-0.0001 ppm
Concentration per Run 1	0.0009 ppm	0.0563 ppm	0.0005 ppm	0.0024 ppm	0.0000 ppm	-0.0040 ppm	-0.0001 ppm
Concentration per Run 2	0.0004 ppm	0.0596 ppm	0.0001 ppm	0.0025 ppm	0.0000 ppm	-0.0026 ppm	0.0000 ppm
Concentration per Run 3	0.0009 ppm	0.0562 ppm	0.0004 ppm	0.0025 ppm	0.0002 ppm	-0.0033 ppm	-0.0001 ppm
Concentration RSD	44.8 %	3.4 %	56.6 %	1.4 %	109.8 %	21.0 %	44.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0826 ppm	98.8155 %	94.2977 %	91.2895 %	95.7937 %	81.6554 %	92.8037 %
Concentration per Run 1	0.0828 ppm	99.4678 %	94.4086 %	91.5826 %	97.4359 %	81.9409 %	92.9160 %
Concentration per Run 2	0.0820 ppm	98.6880 %	94.1347 %	90.8330 %	95.1971 %	81.4434 %	92.8253 %
Concentration per Run 3	0.0831 ppm	98.2907 %	94.3497 %	91.4529 %	94.7481 %	81.5819 %	92.6699 %
Concentration RSD	0.7 %	0.6 %	0.2 %	0.4 %	1.5 %	0.3 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: zL2453698-01d10 WG1973911
Analysis started at: 9/26/2024 3:12:35 PM
Comments <Comment>
Rack: 1
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	-0.0026 ppm	-0.0007 ppm	0.0994 ppm	0.0314 ppm	0.0000 ppm	14.1666 ppm
Concentration per Run 1	0.0005 ppm	-0.0004 ppm	-0.0014 ppm	0.0992 ppm	0.0307 ppm	0.0000 ppm	13.8427 ppm
Concentration per Run 2	0.0002 ppm	-0.0055 ppm	-0.0002 ppm	0.0996 ppm	0.0314 ppm	0.0000 ppm	14.3196 ppm
Concentration per Run 3	0.0006 ppm	-0.0019 ppm	-0.0006 ppm	0.0994 ppm	0.0322 ppm	0.0000 ppm	14.3375 ppm
Concentration RSD	54.2 %	102.2 %	81.6 %	0.2 %	2.4 %	1,778.9 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0095 ppm	0.0001 ppm	0.0014 ppm	1.0041 ppm	14.5444 ppm	-0.0089 ppm
Concentration per Run 1	-0.0001 ppm	0.0096 ppm	-0.0001 ppm	0.0015 ppm	0.9777 ppm	14.3023 ppm	-0.0087 ppm
Concentration per Run 2	-0.0001 ppm	0.0096 ppm	0.0002 ppm	0.0013 ppm	1.0158 ppm	14.4303 ppm	-0.0094 ppm
Concentration per Run 3	-0.0001 ppm	0.0095 ppm	0.0003 ppm	0.0014 ppm	1.0188 ppm	14.9006 ppm	-0.0086 ppm
Concentration RSD	38.0 %	0.7 %	141.6 %	7.9 %	2.3 %	2.2 %	4.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	32.2229 ppm	0.8716 ppm	0.0025 ppm	358.2698 ppm	0.0013 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 1	32.2588 ppm	0.8542 ppm	0.0026 ppm	340.6495 ppm	0.0013 ppm	-0.0008 ppm	-0.0003 ppm
Concentration per Run 2	32.2896 ppm	0.8785 ppm	0.0027 ppm	374.7961 ppm	0.0014 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 3	32.1203 ppm	0.8822 ppm	0.0023 ppm	359.3637 ppm	0.0014 ppm	-0.0002 ppm	-0.0003 ppm
Concentration RSD	0.3 %	1.7 %	7.5 %	4.8 %	4.8 %	102.6 %	611.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.1398 ppm	-0.0003 ppm	0.2565 ppm	0.0002 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.1400 ppm	-0.0003 ppm	0.2499 ppm	0.0000 ppm	0.0001 ppm	0.0010 ppm
Concentration per Run 2	0.0004 ppm	0.1397 ppm	-0.0006 ppm	0.2578 ppm	0.0003 ppm	-0.0002 ppm	0.0007 ppm
Concentration per Run 3	-0.0004 ppm	0.1397 ppm	0.0001 ppm	0.2616 ppm	0.0002 ppm	0.0001 ppm	0.0007 ppm
Concentration RSD	1,184.7 %	0.2 %	150.3 %	2.3 %	86.6 %	535.4 %	18.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0439 ppm	97.3825 %	87.3902 %	87.0262 %	94.0472 %	71.2772 %	85.1944 %
Concentration per Run 1	0.0442 ppm	97.7798 %	87.1317 %	87.2793 %	96.6349 %	71.3574 %	85.0483 %
Concentration per Run 2	0.0437 ppm	96.7565 %	87.5320 %	86.8879 %	92.9244 %	71.2789 %	85.1586 %
Concentration per Run 3	0.0437 ppm	97.6113 %	87.5070 %	86.9115 %	92.5824 %	71.1952 %	85.3762 %
Concentration RSD	0.6 %	0.6 %	0.3 %	0.3 %	2.4 %	0.1 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453698-02d10 WG1973911
Analysis started at: 9/26/2024 3:19:04 PM
Comments <Comment>
Rack: 1
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0480 ppm	-0.0013 ppm	0.1104 ppm	0.0118 ppm	0.0000 ppm	13.9802 ppm
Concentration per Run 1	0.0002 ppm	0.0428 ppm	-0.0013 ppm	0.1106 ppm	0.0115 ppm	0.0001 ppm	13.6873 ppm
Concentration per Run 2	0.0004 ppm	0.0505 ppm	-0.0001 ppm	0.1092 ppm	0.0120 ppm	0.0000 ppm	14.1318 ppm
Concentration per Run 3	-0.0002 ppm	0.0508 ppm	-0.0025 ppm	0.1114 ppm	0.0120 ppm	0.0000 ppm	14.1214 ppm
Concentration RSD	197.5 %	9.5 %	89.9 %	1.0 %	2.2 %	428.3 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0011 ppm	0.3605 ppm	12.2208 ppm	-0.0071 ppm
Concentration per Run 1	-0.0001 ppm	0.0008 ppm	0.0002 ppm	0.0011 ppm	0.3521 ppm	12.0300 ppm	-0.0075 ppm
Concentration per Run 2	-0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0010 ppm	0.3644 ppm	12.3417 ppm	-0.0069 ppm
Concentration per Run 3	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0012 ppm	0.3649 ppm	12.2905 ppm	-0.0069 ppm
Concentration RSD	5.3 %	23.0 %	117.5 %	6.7 %	2.0 %	1.4 %	4.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	29.3432 ppm	0.1058 ppm	0.0038 ppm	286.7653 ppm	-0.0004 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 1	29.3249 ppm	0.1033 ppm	0.0039 ppm	274.6360 ppm	-0.0004 ppm	-0.0009 ppm	0.0006 ppm
Concentration per Run 2	29.2679 ppm	0.1076 ppm	0.0037 ppm	286.8624 ppm	-0.0004 ppm	-0.0004 ppm	0.0004 ppm
Concentration per Run 3	29.4368 ppm	0.1067 ppm	0.0039 ppm	298.7974 ppm	-0.0004 ppm	0.0000 ppm	-0.0004 ppm
Concentration RSD	0.3 %	2.1 %	2.1 %	4.2 %	5.5 %	100.4 %	324.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	0.1474 ppm	-0.0001 ppm	0.2170 ppm	0.0028 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0004 ppm	0.1471 ppm	-0.0007 ppm	0.2129 ppm	0.0029 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 2	0.0003 ppm	0.1470 ppm	0.0001 ppm	0.2182 ppm	0.0029 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 3	-0.0022 ppm	0.1481 ppm	0.0003 ppm	0.2198 ppm	0.0027 ppm	-0.0008 ppm	-0.0001 ppm
Concentration RSD	297.8 %	0.4 %	488.2 %	1.7 %	3.5 %	27.8 %	44.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0137 ppm	97.5546 %	87.7213 %	86.8098 %	93.8544 %	72.2874 %	85.7800 %
Concentration per Run 1	0.0136 ppm	98.7028 %	87.6047 %	86.8767 %	96.4568 %	72.4491 %	85.7752 %
Concentration per Run 2	0.0138 ppm	96.7734 %	87.8179 %	87.2735 %	92.7491 %	72.5816 %	85.8596 %
Concentration per Run 3	0.0137 ppm	97.1876 %	87.7412 %	86.2791 %	92.3574 %	71.8314 %	85.7053 %
Concentration RSD	0.8 %	1.0 %	0.1 %	0.6 %	2.4 %	0.6 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCV
Analysis started at: 9/26/2024 3:25:31 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5111 ppm	0.5219 ppm	0.5068 ppm	0.5219 ppm	0.5193 ppm	0.5083 ppm	0.4962 ppm
Concentration per Run 1	0.5108 ppm	0.5089 ppm	0.5077 ppm	0.5211 ppm	0.5031 ppm	0.4947 ppm	0.4818 ppm
Concentration per Run 2	0.5126 ppm	0.5272 ppm	0.5085 ppm	0.5233 ppm	0.5275 ppm	0.5118 ppm	0.5011 ppm
Concentration per Run 3	0.5097 ppm	0.5296 ppm	0.5043 ppm	0.5212 ppm	0.5272 ppm	0.5186 ppm	0.5058 ppm
Recovery Percentage 1	102.215 %	104.379 %	101.368 %	104.371 %	103.852 %	101.669 %	99.242 %
Concentration RSD	0.3 %	2.2 %	0.4 %	0.2 %	2.7 %	2.4 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4907 ppm	0.4796 ppm	0.4945 ppm	0.5094 ppm	0.5052 ppm	5.3794 ppm	0.5283 ppm
Concentration per Run 1	0.4902 ppm	0.4814 ppm	0.4952 ppm	0.5095 ppm	0.4930 ppm	5.1699 ppm	0.5080 ppm
Concentration per Run 2	0.4916 ppm	0.4792 ppm	0.4950 ppm	0.5107 ppm	0.5103 ppm	5.5389 ppm	0.5484 ppm
Concentration per Run 3	0.4905 ppm	0.4782 ppm	0.4932 ppm	0.5080 ppm	0.5121 ppm	5.4295 ppm	0.5286 ppm
Recovery Percentage 1	98.150 %	95.925 %	98.890 %	101.882 %	101.034 %	107.589 %	105.667 %
Concentration RSD	0.2 %	0.3 %	0.2 %	0.3 %	2.1 %	3.5 %	3.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5084 ppm	0.4888 ppm	0.5071 ppm	10.4183 ppm	0.4750 ppm	0.4841 ppm	0.4935 ppm
Concentration per Run 1	0.5024 ppm	0.4761 ppm	0.5078 ppm	10.0257 ppm	0.4763 ppm	0.4862 ppm	0.4942 ppm
Concentration per Run 2	0.5129 ppm	0.4926 ppm	0.5068 ppm	10.7661 ppm	0.4751 ppm	0.4842 ppm	0.4951 ppm
Concentration per Run 3	0.5098 ppm	0.4977 ppm	0.5066 ppm	10.4631 ppm	0.4735 ppm	0.4820 ppm	0.4912 ppm
Recovery Percentage 1	101.676 %	97.755 %	101.415 %	104.183 %	94.998 %	96.826 %	98.698 %
Concentration RSD	1.1 %	2.3 %	0.1 %	3.6 %	0.3 %	0.4 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5150 ppm	5.3793 ppm	0.5004 ppm	0.4942 ppm	0.5112 ppm	0.5048 ppm	0.5013 ppm
Concentration per Run 1	0.5139 ppm	5.4053 ppm	0.4995 ppm	0.4791 ppm	0.5099 ppm	0.5084 ppm	0.5001 ppm
Concentration per Run 2	0.5146 ppm	5.3729 ppm	0.5005 ppm	0.5018 ppm	0.5128 ppm	0.5034 ppm	0.5032 ppm
Concentration per Run 3	0.5164 ppm	5.3596 ppm	0.5011 ppm	0.5018 ppm	0.5108 ppm	0.5026 ppm	0.5006 ppm
Recovery Percentage 1	102.991 %	102.462 %	100.077 %	98.846 %	102.234 %	100.963 %	100.260 %
Concentration RSD	0.3 %	0.4 %	0.2 %	2.6 %	0.3 %	0.6 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4530 ppm	101.4569 %	97.2274 %	93.9447 %	97.6757 %	89.7290 %	94.5528 %
Concentration per Run 1	0.4540 ppm	102.5065 %	97.4626 %	93.9597 %	100.0542 %	89.3439 %	94.7732 %
Concentration per Run 2	0.4533 ppm	101.7634 %	97.4940 %	93.8618 %	97.2019 %	89.7468 %	94.5154 %
Concentration per Run 3	0.4515 ppm	100.1008 %	96.7255 %	94.0125 %	95.7710 %	90.0963 %	94.3697 %
Recovery Percentage 1	90.590 %						
Concentration RSD	0.3 %	1.2 %	0.4 %	0.1 %	2.2 %	0.4 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCB
Analysis started at: 9/26/2024 3:31:34 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0014 ppm	-0.0008 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	0.0015 ppm	-0.0006 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	0.0012 ppm
Concentration per Run 2	0.0001 ppm	-0.0011 ppm	-0.0006 ppm	0.0018 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	0.0002 ppm	-0.0046 ppm	-0.0014 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm
Recovery Percentage 1	2.525 %	-1.431 %	-16.965 %	5.759 %	-0.217 %	0.130 %	0.021 %
Concentration RSD	48.1 %	214.7 %	54.5 %	7.5 %	169.6 %	269.3 %	5,713.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0012 ppm	0.0182 ppm	-0.0007 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0017 ppm	0.0028 ppm	-0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0010 ppm	0.0345 ppm	-0.0008 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0010 ppm	0.0172 ppm	-0.0004 ppm
Recovery Percentage 1	0.375 %	-0.337 %	-0.380 %	2.760 %	2.467 %	0.726 %	-6.868 %
Concentration RSD	324.1 %	65.0 %	239.0 %	10.9 %	36.1 %	87.3 %	37.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0170 ppm	-0.0001 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0164 ppm	-0.0003 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 2	-0.0005 ppm	0.0000 ppm	0.0002 ppm	0.0162 ppm	0.0000 ppm	-0.0005 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0184 ppm	0.0001 ppm	-0.0010 ppm	-0.0003 ppm
Recovery Percentage 1	-0.117 %	-0.101 %	0.216 %	0.849 %	-0.323 %	-6.384 %	-0.487 %
Concentration RSD	277.5 %	707.8 %	90.4 %	7.1 %	282.0 %	55.7 %	89.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0013 ppm	-0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0020 ppm	0.0004 ppm	-0.0004 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 2	0.0007 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 3	0.0010 ppm	-0.0007 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm
Recovery Percentage 1	12.508 %	-0.088 %	-0.292 %	0.569 %	0.149 %	-0.324 %	-0.941 %
Concentration RSD	53.9 %	177.4 %	166.1 %	21.6 %	1,583.0 %	615.7 %	75.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	102.2779 %	97.9143 %	94.8312 %	98.5706 %	95.7877 %	95.2045 %
Concentration per Run 1	0.0000 ppm	103.8058 %	97.9345 %	94.2161 %	102.1333 %	94.9768 %	95.2158 %
Concentration per Run 2	0.0000 ppm	101.8936 %	97.9539 %	94.9889 %	97.7813 %	96.0237 %	95.4514 %
Concentration per Run 3	-0.0001 ppm	101.1344 %	97.8545 %	95.2885 %	95.7973 %	96.3625 %	94.9463 %
Recovery Percentage 1	0.142 %						
Concentration RSD	698.0 %	1.3 %	0.1 %	0.6 %	3.3 %	0.8 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-1 WG1975964
Analysis started at: 9/26/2024 3:41:25 PM
Comments <Comment>
Rack: 1
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0007 ppm	-0.0009 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 1	-0.0001 ppm	0.0008 ppm	-0.0011 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0067 ppm
Concentration per Run 2	0.0001 ppm	-0.0027 ppm	-0.0009 ppm	0.0014 ppm	-0.0001 ppm	0.0000 ppm	0.0069 ppm
Concentration per Run 3	0.0003 ppm	-0.0003 ppm	-0.0008 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0058 ppm
Concentration RSD	159.4 %	259.7 %	17.1 %	12.3 %	439.8 %	227.5 %	9.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0005 ppm	0.0001 ppm	-0.0033 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	0.0004 ppm	0.0005 ppm	0.0026 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0006 ppm	-0.0001 ppm	-0.0121 ppm	-0.0010 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0006 ppm	0.0000 ppm	-0.0005 ppm	-0.0004 ppm
Concentration RSD	150.7 %	17.7 %	23.3 %	24.6 %	275.6 %	234.1 %	44.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0006 ppm	0.0000 ppm	-0.0001 ppm	0.0172 ppm	-0.0001 ppm	-0.0003 ppm	-0.0006 ppm
Concentration per Run 1	-0.0019 ppm	-0.0001 ppm	0.0000 ppm	0.0151 ppm	0.0000 ppm	-0.0003 ppm	-0.0006 ppm
Concentration per Run 2	0.0019 ppm	0.0000 ppm	-0.0001 ppm	0.0182 ppm	0.0000 ppm	-0.0005 ppm	-0.0003 ppm
Concentration per Run 3	-0.0016 ppm	0.0000 ppm	-0.0001 ppm	0.0185 ppm	-0.0002 ppm	0.0000 ppm	-0.0010 ppm
Concentration RSD	371.1 %	258.4 %	136.0 %	10.8 %	93.4 %	103.1 %	50.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0003 ppm	0.0039 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 1	-0.0004 ppm	0.0039 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0003 ppm
Concentration per Run 2	0.0011 ppm	0.0039 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	-0.0016 ppm	0.0038 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm
Concentration RSD	499.5 %	2.2 %	62.2 %	44.5 %	163.0 %	100.7 %	64.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	102.7250 %	99.8340 %	95.3133 %	99.5311 %	97.7107 %	97.9945 %
Concentration per Run 1	0.0003 ppm	101.5591 %	99.5959 %	95.4151 %	99.0544 %	97.5760 %	97.4605 %
Concentration per Run 2	0.0003 ppm	103.5178 %	99.7963 %	95.5895 %	100.3495 %	98.0794 %	97.6885 %
Concentration per Run 3	0.0002 ppm	103.0982 %	100.1097 %	94.9353 %	99.1894 %	97.4767 %	98.8346 %
Concentration RSD	16.7 %	1.0 %	0.3 %	0.4 %	0.7 %	0.3 %	0.8 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-2 WG1975964
Analysis started at: 9/26/2024 3:47:50 PM
Comments <Comment>
Rack: 1
Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0536 ppm	2.1329 ppm	0.1252 ppm	1.0287 ppm	2.0826 ppm	0.0501 ppm	9.7911 ppm
Concentration per Run 1	0.0542 ppm	2.1017 ppm	0.1257 ppm	1.0295 ppm	2.0166 ppm	0.0491 ppm	9.6021 ppm
Concentration per Run 2	0.0530 ppm	2.1505 ppm	0.1259 ppm	1.0275 ppm	2.1280 ppm	0.0506 ppm	9.8765 ppm
Concentration per Run 3	0.0536 ppm	2.1465 ppm	0.1239 ppm	1.0292 ppm	2.1031 ppm	0.0505 ppm	9.8948 ppm
Concentration RSD	1.1 %	1.3 %	0.9 %	0.1 %	2.8 %	1.7 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0531 ppm	0.4768 ppm	0.1974 ppm	0.2683 ppm	1.0122 ppm	11.4663 ppm	-0.0010 ppm
Concentration per Run 1	0.0530 ppm	0.4756 ppm	0.1986 ppm	0.2684 ppm	0.9912 ppm	11.3777 ppm	-0.0013 ppm
Concentration per Run 2	0.0532 ppm	0.4798 ppm	0.1987 ppm	0.2652 ppm	1.0211 ppm	11.5130 ppm	-0.0009 ppm
Concentration per Run 3	0.0531 ppm	0.4751 ppm	0.1949 ppm	0.2714 ppm	1.0242 ppm	11.5083 ppm	-0.0008 ppm
Concentration RSD	0.2 %	0.5 %	1.1 %	1.2 %	1.8 %	0.7 %	25.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.2837 ppm	0.4961 ppm	1.0146 ppm	11.4409 ppm	0.4763 ppm	0.5223 ppm	0.5082 ppm
Concentration per Run 1	10.2827 ppm	0.4848 ppm	1.0138 ppm	11.3693 ppm	0.4745 ppm	0.5222 ppm	0.5064 ppm
Concentration per Run 2	10.3021 ppm	0.5006 ppm	1.0149 ppm	11.5420 ppm	0.4788 ppm	0.5238 ppm	0.5094 ppm
Concentration per Run 3	10.2664 ppm	0.5029 ppm	1.0149 ppm	11.4113 ppm	0.4756 ppm	0.5211 ppm	0.5087 ppm
Concentration RSD	0.2 %	2.0 %	0.1 %	0.8 %	0.5 %	0.3 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1253 ppm	0.8303 ppm	1.0011 ppm	0.9916 ppm	1.0139 ppm	0.1205 ppm	0.5050 ppm
Concentration per Run 1	0.1238 ppm	0.8288 ppm	1.0011 ppm	0.9734 ppm	1.0140 ppm	0.1200 ppm	0.5044 ppm
Concentration per Run 2	0.1259 ppm	0.8342 ppm	1.0025 ppm	0.9994 ppm	1.0151 ppm	0.1209 ppm	0.5077 ppm
Concentration per Run 3	0.1261 ppm	0.8280 ppm	0.9997 ppm	1.0020 ppm	1.0126 ppm	0.1206 ppm	0.5030 ppm
Concentration RSD	1.0 %	0.4 %	0.1 %	1.6 %	0.1 %	0.4 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4533 ppm	102.8582 %	96.4080 %	92.4379 %	100.4272 %	88.1658 %	94.7363 %
Concentration per Run 1	0.4515 ppm	103.6088 %	96.4239 %	92.5863 %	102.9409 %	88.5078 %	94.9060 %
Concentration per Run 2	0.4558 ppm	102.4874 %	96.2609 %	92.3924 %	99.4569 %	87.8108 %	94.6295 %
Concentration per Run 3	0.4526 ppm	102.4785 %	96.5391 %	92.3351 %	98.8838 %	88.1789 %	94.6734 %
Concentration RSD	0.5 %	0.6 %	0.1 %	0.1 %	2.2 %	0.4 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2454059-01 WG1975964
Analysis started at: 9/26/2024 3:54:03 PM
Comments <Comment>
Rack: 1
Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0167 ppm	-0.0002 ppm	0.0250 ppm	0.1127 ppm	0.0000 ppm	16.0179 ppm
Concentration per Run 1	0.0001 ppm	0.0178 ppm	-0.0002 ppm	0.0247 ppm	0.1117 ppm	0.0000 ppm	15.9792 ppm
Concentration per Run 2	0.0001 ppm	0.0146 ppm	-0.0003 ppm	0.0252 ppm	0.1127 ppm	0.0000 ppm	16.0439 ppm
Concentration per Run 3	0.0000 ppm	0.0175 ppm	0.0000 ppm	0.0251 ppm	0.1139 ppm	0.0000 ppm	16.0305 ppm
Concentration RSD	85.3 %	10.5 %	66.9 %	1.0 %	1.0 %	23.4 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0031 ppm	0.0191 ppm	3.1238 ppm	-0.0029 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0031 ppm	0.0191 ppm	3.1081 ppm	-0.0033 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0031 ppm	0.0188 ppm	3.0200 ppm	-0.0028 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0032 ppm	0.0194 ppm	3.2433 ppm	-0.0026 ppm
Concentration RSD	52.5 %	83.9 %	181.1 %	2.3 %	1.6 %	3.6 %	13.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.6521 ppm	0.0398 ppm	0.0005 ppm	84.5803 ppm	-0.0001 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 1	4.6141 ppm	0.0395 ppm	0.0006 ppm	84.4231 ppm	0.0001 ppm	-0.0020 ppm	0.0004 ppm
Concentration per Run 2	4.7063 ppm	0.0399 ppm	0.0005 ppm	82.6380 ppm	0.0000 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 3	4.6359 ppm	0.0400 ppm	0.0005 ppm	86.6797 ppm	-0.0003 ppm	-0.0015 ppm	-0.0007 ppm
Concentration RSD	1.0 %	0.6 %	10.6 %	2.4 %	244.5 %	61.8 %	2,332.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	3.4758 ppm	-0.0004 ppm	0.0911 ppm	0.0002 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0017 ppm	3.4816 ppm	-0.0003 ppm	0.0903 ppm	0.0002 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 2	0.0008 ppm	3.4642 ppm	-0.0004 ppm	0.0910 ppm	0.0003 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 3	0.0006 ppm	3.4816 ppm	-0.0006 ppm	0.0920 ppm	0.0001 ppm	-0.0008 ppm	0.0001 ppm
Concentration RSD	59.1 %	0.3 %	38.8 %	0.9 %	36.4 %	22.4 %	242.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0030 ppm	100.8359 %	93.3756 %	90.5766 %	98.1721 %	83.3684 %	91.6000 %
Concentration per Run 1	0.0029 ppm	100.8449 %	93.7797 %	90.7044 %	99.2565 %	83.2875 %	91.7892 %
Concentration per Run 2	0.0031 ppm	100.6108 %	92.4688 %	90.6839 %	97.8453 %	83.5874 %	90.6936 %
Concentration per Run 3	0.0030 ppm	101.0520 %	93.8783 %	90.3416 %	97.4146 %	83.2303 %	92.3172 %
Concentration RSD	3.5 %	0.2 %	0.8 %	0.2 %	1.0 %	0.2 %	0.9 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-3 WG1975964
Analysis started at: 9/26/2024 4:00:33 PM
Comments <Comment>
Rack: 1
Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0556 ppm	2.1797 ppm	0.1298 ppm	1.0831 ppm	2.2621 ppm	0.0515 ppm	25.5324 ppm
Concentration per Run 1	0.0554 ppm	2.1344 ppm	0.1292 ppm	1.0851 ppm	2.2055 ppm	0.0507 ppm	25.2675 ppm
Concentration per Run 2	0.0562 ppm	2.1822 ppm	0.1290 ppm	1.0832 ppm	2.2891 ppm	0.0518 ppm	25.7132 ppm
Concentration per Run 3	0.0551 ppm	2.2226 ppm	0.1312 ppm	1.0811 ppm	2.2917 ppm	0.0520 ppm	25.6165 ppm
Concentration RSD	1.0 %	2.0 %	0.9 %	0.2 %	2.2 %	1.3 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0534 ppm	0.4987 ppm	0.1996 ppm	0.2794 ppm	1.0378 ppm	14.8594 ppm	-0.0031 ppm
Concentration per Run 1	0.0534 ppm	0.4989 ppm	0.1993 ppm	0.2786 ppm	1.0212 ppm	14.5461 ppm	-0.0032 ppm
Concentration per Run 2	0.0534 ppm	0.4981 ppm	0.2028 ppm	0.2806 ppm	1.0439 ppm	14.6631 ppm	-0.0030 ppm
Concentration per Run 3	0.0535 ppm	0.4992 ppm	0.1967 ppm	0.2789 ppm	1.0483 ppm	15.3691 ppm	-0.0032 ppm
Concentration RSD	0.2 %	0.1 %	1.5 %	0.4 %	1.4 %	3.0 %	4.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	14.8384 ppm	0.5383 ppm	1.0168 ppm	93.6901 ppm	0.4960 ppm	0.5343 ppm	0.5436 ppm
Concentration per Run 1	14.8251 ppm	0.5308 ppm	1.0160 ppm	92.4916 ppm	0.4962 ppm	0.5336 ppm	0.5437 ppm
Concentration per Run 2	15.0019 ppm	0.5410 ppm	1.0192 ppm	90.8828 ppm	0.4970 ppm	0.5357 ppm	0.5435 ppm
Concentration per Run 3	14.6882 ppm	0.5430 ppm	1.0152 ppm	97.6960 ppm	0.4949 ppm	0.5335 ppm	0.5435 ppm
Concentration RSD	1.1 %	1.2 %	0.2 %	3.8 %	0.2 %	0.2 %	0.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1311 ppm	4.4114 ppm	0.9871 ppm	1.0968 ppm	1.0359 ppm	0.1197 ppm	0.5167 ppm
Concentration per Run 1	0.1313 ppm	4.4122 ppm	0.9874 ppm	1.0765 ppm	1.0330 ppm	0.1197 ppm	0.5160 ppm
Concentration per Run 2	0.1309 ppm	4.4231 ppm	0.9887 ppm	1.1007 ppm	1.0478 ppm	0.1197 ppm	0.5225 ppm
Concentration per Run 3	0.1311 ppm	4.3987 ppm	0.9852 ppm	1.1132 ppm	1.0270 ppm	0.1198 ppm	0.5117 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %	1.7 %	1.0 %	0.1 %	1.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4872 ppm	101.5528 %	92.3251 %	89.4918 %	98.6395 %	80.7761 %	90.3358 %
Concentration per Run 1	0.4861 ppm	101.7971 %	92.3961 %	89.5803 %	100.3190 %	81.0159 %	90.3568 %
Concentration per Run 2	0.4862 ppm	101.0845 %	91.5495 %	89.4403 %	97.9296 %	80.6402 %	89.6288 %
Concentration per Run 3	0.4891 ppm	101.7769 %	93.0297 %	89.4548 %	97.6699 %	80.6722 %	91.0219 %
Concentration RSD	0.4 %	0.4 %	0.8 %	0.1 %	1.5 %	0.3 %	0.8 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-4 WG1975964
Analysis started at: 9/26/2024 4:06:54 PM
Comments <Comment>
Rack: 1
Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0170 ppm	-0.0011 ppm	0.0254 ppm	0.1113 ppm	0.0000 ppm	15.6836 ppm
Concentration per Run 1	0.0003 ppm	0.0178 ppm	-0.0010 ppm	0.0256 ppm	0.1097 ppm	0.0000 ppm	15.6209 ppm
Concentration per Run 2	0.0003 ppm	0.0155 ppm	-0.0013 ppm	0.0254 ppm	0.1104 ppm	0.0000 ppm	15.5740 ppm
Concentration per Run 3	0.0003 ppm	0.0177 ppm	-0.0011 ppm	0.0253 ppm	0.1137 ppm	0.0001 ppm	15.8559 ppm
Concentration RSD	15.2 %	7.8 %	12.2 %	0.6 %	1.9 %	88.2 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0032 ppm	0.0175 ppm	3.1314 ppm	-0.0031 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0032 ppm	0.0179 ppm	3.0678 ppm	-0.0033 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0033 ppm	0.0171 ppm	3.1072 ppm	-0.0030 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0030 ppm	0.0176 ppm	3.2191 ppm	-0.0029 ppm
Concentration RSD	36.8 %	78.1 %	35.0 %	4.8 %	2.4 %	2.5 %	8.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.5938 ppm	0.0391 ppm	0.0006 ppm	79.7434 ppm	0.0003 ppm	-0.0017 ppm	0.0000 ppm
Concentration per Run 1	4.6080 ppm	0.0392 ppm	0.0006 ppm	81.2548 ppm	0.0004 ppm	-0.0017 ppm	-0.0003 ppm
Concentration per Run 2	4.5878 ppm	0.0387 ppm	0.0007 ppm	79.1718 ppm	0.0005 ppm	-0.0014 ppm	0.0006 ppm
Concentration per Run 3	4.5857 ppm	0.0396 ppm	0.0006 ppm	78.8036 ppm	-0.0001 ppm	-0.0020 ppm	-0.0002 ppm
Concentration RSD	0.3 %	1.2 %	6.8 %	1.7 %	126.4 %	18.2 %	8,414.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	3.4823 ppm	-0.0001 ppm	0.0900 ppm	0.0001 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 1	0.0006 ppm	3.4905 ppm	-0.0004 ppm	0.0889 ppm	0.0000 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 2	0.0017 ppm	3.4909 ppm	0.0004 ppm	0.0891 ppm	0.0002 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 3	0.0009 ppm	3.4656 ppm	-0.0003 ppm	0.0919 ppm	0.0001 ppm	-0.0004 ppm	-0.0003 ppm
Concentration RSD	53.4 %	0.4 %	469.4 %	1.8 %	57.6 %	161.0 %	109.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0030 ppm	101.8966 %	93.5494 %	89.9230 %	100.0448 %	82.8707 %	91.4330 %
Concentration per Run 1	0.0031 ppm	101.2551 %	93.8007 %	90.1232 %	100.9287 %	82.8640 %	91.7901 %
Concentration per Run 2	0.0030 ppm	102.7628 %	93.6031 %	90.0219 %	100.5360 %	82.8591 %	91.3698 %
Concentration per Run 3	0.0028 ppm	101.6721 %	93.2444 %	89.6238 %	98.6699 %	82.8888 %	91.1390 %
Concentration RSD	3.8 %	0.8 %	0.3 %	0.3 %	1.2 %	0.0 %	0.4 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-5 WG1975964
Analysis started at: 9/26/2024 4:13:24 PM
Comments <Comment>
Rack: 1
Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0523 ppm	2.0784 ppm	0.1263 ppm	1.0528 ppm	2.1232 ppm	0.0491 ppm	24.7313 ppm
Concentration per Run 1	0.0523 ppm	2.0593 ppm	0.1269 ppm	1.0565 ppm	2.1269 ppm	0.0485 ppm	24.5564 ppm
Concentration per Run 2	0.0523 ppm	2.0754 ppm	0.1258 ppm	1.0515 ppm	2.1418 ppm	0.0491 ppm	24.7814 ppm
Concentration per Run 3	0.0525 ppm	2.1004 ppm	0.1263 ppm	1.0504 ppm	2.1009 ppm	0.0496 ppm	24.8562 ppm
Concentration RSD	0.2 %	1.0 %	0.4 %	0.3 %	1.0 %	1.1 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0508 ppm	0.4793 ppm	0.1904 ppm	0.2658 ppm	0.9888 ppm	14.3772 ppm	-0.0036 ppm
Concentration per Run 1	0.0509 ppm	0.4804 ppm	0.1904 ppm	0.2666 ppm	0.9767 ppm	14.2331 ppm	-0.0038 ppm
Concentration per Run 2	0.0508 ppm	0.4791 ppm	0.1907 ppm	0.2639 ppm	0.9905 ppm	14.3990 ppm	-0.0033 ppm
Concentration per Run 3	0.0508 ppm	0.4784 ppm	0.1901 ppm	0.2668 ppm	0.9992 ppm	14.4993 ppm	-0.0038 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	0.6 %	1.2 %	0.9 %	8.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	14.2953 ppm	0.5159 ppm	0.9942 ppm	92.6644 ppm	0.4768 ppm	0.5150 ppm	0.5158 ppm
Concentration per Run 1	14.2842 ppm	0.5126 ppm	0.9977 ppm	93.4746 ppm	0.4785 ppm	0.5171 ppm	0.5193 ppm
Concentration per Run 2	14.2999 ppm	0.5188 ppm	0.9928 ppm	93.2363 ppm	0.4763 ppm	0.5145 ppm	0.5142 ppm
Concentration per Run 3	14.3017 ppm	0.5163 ppm	0.9921 ppm	91.2823 ppm	0.4757 ppm	0.5135 ppm	0.5139 ppm
Concentration RSD	0.1 %	0.6 %	0.3 %	1.3 %	0.3 %	0.4 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1276 ppm	4.0295 ppm	0.9754 ppm	1.0670 ppm	1.0011 ppm	0.1165 ppm	0.4924 ppm
Concentration per Run 1	0.1286 ppm	4.0464 ppm	0.9775 ppm	1.0545 ppm	0.9977 ppm	0.1175 ppm	0.4902 ppm
Concentration per Run 2	0.1276 ppm	4.0223 ppm	0.9759 ppm	1.0684 ppm	0.9996 ppm	0.1153 ppm	0.4923 ppm
Concentration per Run 3	0.1266 ppm	4.0199 ppm	0.9728 ppm	1.0783 ppm	1.0059 ppm	0.1167 ppm	0.4947 ppm
Concentration RSD	0.8 %	0.4 %	0.2 %	1.1 %	0.4 %	0.9 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4693 ppm	101.4900 %	92.7589 %	89.2501 %	98.7057 %	80.5383 %	90.6354 %
Concentration per Run 1	0.4699 ppm	101.6392 %	92.8979 %	89.0996 %	99.7802 %	80.4409 %	90.8723 %
Concentration per Run 2	0.4688 ppm	101.2058 %	92.9204 %	89.2358 %	98.4930 %	80.5510 %	90.9663 %
Concentration per Run 3	0.4691 ppm	101.6250 %	92.4584 %	89.4149 %	97.8439 %	80.6229 %	90.0676 %
Concentration RSD	0.1 %	0.2 %	0.3 %	0.2 %	1.0 %	0.1 %	0.5 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-6d5 WG1975964
Analysis started at: 9/26/2024 4:19:42 PM
Comments <Comment>
Rack: 1
Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0030 ppm	-0.0004 ppm	0.0076 ppm	0.0230 ppm	0.0000 ppm	3.2410 ppm
Concentration per Run 1	0.0002 ppm	0.0051 ppm	-0.0003 ppm	0.0080 ppm	0.0221 ppm	0.0000 ppm	3.1263 ppm
Concentration per Run 2	0.0001 ppm	0.0029 ppm	0.0002 ppm	0.0075 ppm	0.0235 ppm	0.0000 ppm	3.3011 ppm
Concentration per Run 3	0.0003 ppm	0.0012 ppm	-0.0010 ppm	0.0074 ppm	0.0234 ppm	0.0000 ppm	3.2956 ppm
Concentration RSD	49.1 %	63.6 %	166.0 %	4.0 %	3.5 %	842.0 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0009 ppm	0.0048 ppm	0.6432 ppm	-0.0008 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0009 ppm	0.0051 ppm	0.6488 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0010 ppm	0.0050 ppm	0.6376 ppm	-0.0008 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0008 ppm	0.0045 ppm	0.6433 ppm	-0.0010 ppm
Concentration RSD	4,429.8 %	33.2 %	77.0 %	13.1 %	6.2 %	0.9 %	19.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.9717 ppm	0.0081 ppm	0.0007 ppm	16.7370 ppm	0.0000 ppm	-0.0005 ppm	0.0010 ppm
Concentration per Run 1	0.9704 ppm	0.0078 ppm	0.0008 ppm	16.2781 ppm	0.0000 ppm	-0.0003 ppm	0.0004 ppm
Concentration per Run 2	0.9740 ppm	0.0083 ppm	0.0006 ppm	17.0069 ppm	0.0001 ppm	-0.0005 ppm	0.0013 ppm
Concentration per Run 3	0.9706 ppm	0.0082 ppm	0.0006 ppm	16.9260 ppm	0.0001 ppm	-0.0007 ppm	0.0013 ppm
Concentration RSD	0.2 %	3.0 %	17.7 %	2.4 %	141.5 %	41.2 %	55.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	0.6605 ppm	0.0007 ppm	0.0187 ppm	0.0000 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 1	0.0002 ppm	0.6611 ppm	0.0007 ppm	0.0181 ppm	0.0002 ppm	-0.0005 ppm	-0.0003 ppm
Concentration per Run 2	0.0008 ppm	0.6634 ppm	0.0007 ppm	0.0191 ppm	-0.0001 ppm	-0.0007 ppm	-0.0002 ppm
Concentration per Run 3	-0.0004 ppm	0.6571 ppm	0.0008 ppm	0.0190 ppm	0.0000 ppm	-0.0006 ppm	-0.0001 ppm
Concentration RSD	251.5 %	0.5 %	8.0 %	3.1 %	702.3 %	14.9 %	60.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	102.1258 %	97.0280 %	93.1542 %	99.7787 %	92.1600 %	95.2050 %
Concentration per Run 1	0.0008 ppm	104.4142 %	96.8875 %	93.1733 %	104.4528 %	92.0868 %	94.9895 %
Concentration per Run 2	0.0007 ppm	100.4023 %	97.1426 %	92.5965 %	97.8908 %	91.4857 %	95.5792 %
Concentration per Run 3	0.0008 ppm	101.5610 %	97.0540 %	93.6927 %	96.9927 %	92.9076 %	95.0462 %
Concentration RSD	6.9 %	2.0 %	0.1 %	0.6 %	4.1 %	0.8 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCV
Analysis started at: 9/26/2024 4:26:01 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5105 ppm	0.5136 ppm	0.5053 ppm	0.5247 ppm	0.5152 ppm	0.4959 ppm	0.4857 ppm
Concentration per Run 1	0.5116 ppm	0.4986 ppm	0.5042 ppm	0.5240 ppm	0.4985 ppm	0.4800 ppm	0.4698 ppm
Concentration per Run 2	0.5096 ppm	0.5209 ppm	0.5061 ppm	0.5254 ppm	0.5217 ppm	0.5047 ppm	0.4974 ppm
Concentration per Run 3	0.5105 ppm	0.5212 ppm	0.5057 ppm	0.5246 ppm	0.5254 ppm	0.5031 ppm	0.4897 ppm
Recovery Percentage 1	102.109 %	102.714 %	101.069 %	104.934 %	103.036 %	99.182 %	97.132 %
Concentration RSD	0.2 %	2.5 %	0.2 %	0.1 %	2.8 %	2.8 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4890 ppm	0.4739 ppm	0.4834 ppm	0.5077 ppm	0.4904 ppm	5.4554 ppm	0.5388 ppm
Concentration per Run 1	0.4886 ppm	0.4731 ppm	0.4804 ppm	0.5093 ppm	0.4743 ppm	5.2545 ppm	0.5189 ppm
Concentration per Run 2	0.4898 ppm	0.4752 ppm	0.4842 ppm	0.5082 ppm	0.5009 ppm	5.4762 ppm	0.5412 ppm
Concentration per Run 3	0.4887 ppm	0.4734 ppm	0.4855 ppm	0.5057 ppm	0.4958 ppm	5.6354 ppm	0.5562 ppm
Recovery Percentage 1	97.803 %	94.779 %	96.670 %	101.543 %	98.072 %	109.108 %	107.753 %
Concentration RSD	0.1 %	0.2 %	0.6 %	0.4 %	2.9 %	3.5 %	3.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5068 ppm	0.4794 ppm	0.5052 ppm	10.5418 ppm	0.4670 ppm	0.4792 ppm	0.4924 ppm
Concentration per Run 1	0.5080 ppm	0.4655 ppm	0.5043 ppm	10.1449 ppm	0.4660 ppm	0.4777 ppm	0.4918 ppm
Concentration per Run 2	0.5023 ppm	0.4879 ppm	0.5063 ppm	10.5973 ppm	0.4689 ppm	0.4825 ppm	0.4933 ppm
Concentration per Run 3	0.5101 ppm	0.4848 ppm	0.5050 ppm	10.8830 ppm	0.4660 ppm	0.4776 ppm	0.4922 ppm
Recovery Percentage 1	101.358 %	95.885 %	101.044 %	105.418 %	93.397 %	95.849 %	98.488 %
Concentration RSD	0.8 %	2.5 %	0.2 %	3.5 %	0.4 %	0.6 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5120 ppm	5.3301 ppm	0.5007 ppm	0.4904 ppm	0.5016 ppm	0.5021 ppm	0.4915 ppm
Concentration per Run 1	0.5085 ppm	5.3172 ppm	0.4987 ppm	0.4745 ppm	0.4985 ppm	0.5020 ppm	0.4889 ppm
Concentration per Run 2	0.5152 ppm	5.3449 ppm	0.5017 ppm	0.4973 ppm	0.5031 ppm	0.5030 ppm	0.4941 ppm
Concentration per Run 3	0.5122 ppm	5.3281 ppm	0.5017 ppm	0.4995 ppm	0.5032 ppm	0.5012 ppm	0.4916 ppm
Recovery Percentage 1	102.391 %	101.525 %	100.145 %	98.079 %	100.321 %	100.416 %	98.309 %
Concentration RSD	0.7 %	0.3 %	0.4 %	2.8 %	0.5 %	0.2 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4877 ppm	102.0058 %	96.6675 %	93.3492 %	99.6897 %	89.9361 %	94.9439 %
Concentration per Run 1	0.4866 ppm	103.8847 %	96.4012 %	93.8705 %	103.4185 %	90.4295 %	94.9280 %
Concentration per Run 2	0.4887 ppm	100.5204 %	96.9093 %	93.0453 %	97.3381 %	89.4990 %	94.8532 %
Concentration per Run 3	0.4876 ppm	101.6122 %	96.6922 %	93.1318 %	98.3123 %	89.8797 %	95.0507 %
Recovery Percentage 1	97.531 %						
Concentration RSD	0.2 %	1.7 %	0.3 %	0.5 %	3.3 %	0.5 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCB
Analysis started at: 9/26/2024 4:32:03 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0003 ppm	-0.0003 ppm	0.0021 ppm	0.0000 ppm	0.0000 ppm	-0.0013 ppm
Concentration per Run 1	0.0003 ppm	0.0003 ppm	-0.0002 ppm	0.0023 ppm	0.0000 ppm	0.0000 ppm	-0.0026 ppm
Concentration per Run 2	0.0002 ppm	-0.0006 ppm	0.0000 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	0.0002 ppm	0.0013 ppm	-0.0005 ppm	0.0022 ppm	0.0000 ppm	0.0000 ppm	-0.0016 ppm
Recovery Percentage 1	3.335 %	0.310 %	-5.168 %	7.116 %	-0.085 %	0.178 %	-1.279 %
Concentration RSD	10.3 %	297.8 %	94.2 %	11.1 %	305.9 %	150.9 %	114.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0007 ppm	0.0160 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0006 ppm	-0.0004 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0003 ppm	0.0011 ppm	0.0156 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0004 ppm	0.0004 ppm	0.0329 ppm	-0.0005 ppm
Recovery Percentage 1	0.332 %	-0.202 %	-1.461 %	3.603 %	1.458 %	0.641 %	-5.837 %
Concentration RSD	187.3 %	303.1 %	159.4 %	8.0 %	51.8 %	103.8 %	16.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0007 ppm	0.0001 ppm	0.0003 ppm	0.0081 ppm	0.0000 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 1	0.0006 ppm	0.0002 ppm	0.0003 ppm	0.0075 ppm	-0.0001 ppm	-0.0004 ppm	0.0007 ppm
Concentration per Run 2	-0.0017 ppm	-0.0001 ppm	0.0004 ppm	0.0053 ppm	0.0002 ppm	-0.0008 ppm	0.0007 ppm
Concentration per Run 3	-0.0012 ppm	0.0003 ppm	0.0003 ppm	0.0116 ppm	-0.0002 ppm	-0.0007 ppm	-0.0001 ppm
Recovery Percentage 1	-0.741 %	1.430 %	0.623 %	0.407 %	-0.135 %	-6.204 %	0.882 %
Concentration RSD	164.5 %	127.3 %	15.9 %	39.7 %	548.5 %	34.3 %	100.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0009 ppm	0.0003 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 1	0.0008 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	0.0002 ppm
Concentration per Run 2	0.0015 ppm	0.0003 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 3	0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	-0.0003 ppm
Recovery Percentage 1	9.078 %	0.061 %	0.503 %	0.567 %	-0.963 %	-2.721 %	-0.878 %
Concentration RSD	62.7 %	94.3 %	72.6 %	41.6 %	83.3 %	59.5 %	292.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	102.4317 %	98.1489 %	94.2726 %	98.7844 %	95.1987 %	95.6829 %
Concentration per Run 1	0.0000 ppm	102.5395 %	98.1333 %	94.2253 %	101.2145 %	95.2241 %	95.8775 %
Concentration per Run 2	0.0000 ppm	102.3602 %	98.5512 %	94.2603 %	97.7391 %	95.4179 %	95.9619 %
Concentration per Run 3	-0.0001 ppm	102.3956 %	97.7621 %	94.3320 %	97.3997 %	94.9541 %	95.2094 %
Recovery Percentage 1	-0.815 %						
Concentration RSD	105.6 %	0.1 %	0.4 %	0.1 %	2.1 %	0.2 %	0.4 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2454059-02 WG1975964
Analysis started at: 9/26/2024 4:42:11 PM
Comments <Comment>
Rack: 1
Vial: 57

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0009 ppm	-0.0002 ppm	0.0071 ppm	0.0152 ppm	0.0000 ppm	10.8743 ppm
Concentration per Run 1	0.0002 ppm	0.0026 ppm	-0.0004 ppm	0.0072 ppm	0.0148 ppm	0.0000 ppm	10.6547 ppm
Concentration per Run 2	0.0003 ppm	0.0023 ppm	-0.0008 ppm	0.0070 ppm	0.0152 ppm	0.0000 ppm	11.0252 ppm
Concentration per Run 3	0.0001 ppm	-0.0023 ppm	0.0005 ppm	0.0071 ppm	0.0156 ppm	0.0000 ppm	10.9430 ppm
Concentration RSD	52.1 %	308.7 %	264.8 %	1.3 %	2.4 %	64.4 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0026 ppm	0.0008 ppm	0.0078 ppm	0.9915 ppm	0.0027 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0026 ppm	0.0008 ppm	0.0082 ppm	0.9851 ppm	0.0030 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0025 ppm	0.0009 ppm	0.0075 ppm	0.9894 ppm	0.0026 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0026 ppm	0.0008 ppm	0.0076 ppm	0.9999 ppm	0.0026 ppm
Concentration RSD	215.7 %	19.5 %	3.1 %	4.9 %	4.5 %	0.8 %	8.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.6133 ppm	0.0004 ppm	0.0000 ppm	8.9454 ppm	-0.0003 ppm	-0.0035 ppm	0.0003 ppm
Concentration per Run 1	5.6135 ppm	0.0005 ppm	0.0000 ppm	8.9591 ppm	-0.0001 ppm	-0.0034 ppm	0.0002 ppm
Concentration per Run 2	5.5997 ppm	0.0005 ppm	0.0000 ppm	8.7985 ppm	-0.0005 ppm	-0.0037 ppm	0.0002 ppm
Concentration per Run 3	5.6267 ppm	0.0002 ppm	0.0001 ppm	9.0785 ppm	-0.0002 ppm	-0.0034 ppm	0.0005 ppm
Concentration RSD	0.2 %	43.3 %	138.1 %	1.6 %	62.1 %	5.0 %	74.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0020 ppm	9.1718 ppm	-0.0007 ppm	0.0470 ppm	0.0001 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 1	0.0022 ppm	9.1374 ppm	-0.0009 ppm	0.0462 ppm	0.0000 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 2	0.0031 ppm	9.1513 ppm	-0.0007 ppm	0.0472 ppm	0.0001 ppm	-0.0005 ppm	-0.0002 ppm
Concentration per Run 3	0.0008 ppm	9.2266 ppm	-0.0006 ppm	0.0478 ppm	0.0001 ppm	-0.0003 ppm	-0.0001 ppm
Concentration RSD	55.9 %	0.5 %	22.0 %	1.8 %	47.9 %	55.7 %	221.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0009 ppm	103.7089 %	97.8867 %	94.2049 %	101.3114 %	92.2332 %	95.8875 %
Concentration per Run 1	0.0010 ppm	104.9865 %	97.9332 %	94.5393 %	103.9782 %	92.8536 %	95.6240 %
Concentration per Run 2	0.0009 ppm	102.5180 %	97.9303 %	94.4347 %	99.9306 %	92.4134 %	96.0949 %
Concentration per Run 3	0.0010 ppm	103.6221 %	97.7965 %	93.6407 %	100.0254 %	91.4324 %	95.9435 %
Concentration RSD	4.7 %	1.2 %	0.1 %	0.5 %	2.3 %	0.8 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2454081-02 WG1975964
Analysis started at: 9/26/2024 4:48:33 PM
Comments <Comment>
Rack: 1
Vial: 58

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.3706 ppm	-0.0012 ppm	0.0761 ppm	0.0973 ppm	0.0000 ppm	88.1030 ppm
Concentration per Run 1	0.0003 ppm	0.3692 ppm	-0.0017 ppm	0.0762 ppm	0.0957 ppm	0.0000 ppm	87.3309 ppm
Concentration per Run 2	0.0003 ppm	0.3727 ppm	-0.0019 ppm	0.0761 ppm	0.0976 ppm	0.0000 ppm	88.8446 ppm
Concentration per Run 3	0.0004 ppm	0.3700 ppm	-0.0001 ppm	0.0761 ppm	0.0986 ppm	0.0000 ppm	88.1335 ppm
Concentration RSD	24.8 %	0.5 %	81.3 %	0.1 %	1.5 %	24.1 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0005 ppm	0.0005 ppm	0.0008 ppm	0.0107 ppm	0.6619 ppm	9.0917 ppm	-0.0056 ppm
Concentration per Run 1	-0.0005 ppm	0.0005 ppm	0.0010 ppm	0.0107 ppm	0.6579 ppm	8.8936 ppm	-0.0059 ppm
Concentration per Run 2	-0.0005 ppm	0.0004 ppm	0.0007 ppm	0.0107 ppm	0.6691 ppm	9.1018 ppm	-0.0061 ppm
Concentration per Run 3	-0.0005 ppm	0.0005 ppm	0.0009 ppm	0.0108 ppm	0.6586 ppm	9.2798 ppm	-0.0049 ppm
Concentration RSD	1.5 %	13.1 %	14.7 %	0.4 %	0.9 %	2.1 %	11.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	18.1228 ppm	0.0441 ppm	0.0010 ppm	298.5922 ppm	0.0029 ppm	-0.0008 ppm	0.0013 ppm
Concentration per Run 1	18.1327 ppm	0.0438 ppm	0.0010 ppm	304.0760 ppm	0.0028 ppm	-0.0002 ppm	0.0013 ppm
Concentration per Run 2	18.1173 ppm	0.0444 ppm	0.0009 ppm	303.2694 ppm	0.0030 ppm	-0.0006 ppm	0.0017 ppm
Concentration per Run 3	18.1184 ppm	0.0443 ppm	0.0012 ppm	288.4312 ppm	0.0029 ppm	-0.0015 ppm	0.0009 ppm
Concentration RSD	0.0 %	0.8 %	13.5 %	3.0 %	3.0 %	93.4 %	32.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	6.8615 ppm	-0.0005 ppm	0.5124 ppm	0.0201 ppm	0.0003 ppm	0.0009 ppm
Concentration per Run 1	0.0008 ppm	6.8579 ppm	-0.0007 ppm	0.5043 ppm	0.0202 ppm	-0.0003 ppm	0.0010 ppm
Concentration per Run 2	-0.0015 ppm	6.8437 ppm	-0.0009 ppm	0.5152 ppm	0.0202 ppm	0.0003 ppm	0.0010 ppm
Concentration per Run 3	0.0009 ppm	6.8828 ppm	0.0000 ppm	0.5177 ppm	0.0199 ppm	0.0010 ppm	0.0006 ppm
Concentration RSD	1,936.1 %	0.3 %	85.8 %	1.4 %	1.0 %	205.9 %	21.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2498 ppm	98.7175 %	87.6213 %	83.6427 %	96.6242 %	69.7994 %	85.9437 %
Concentration per Run 1	0.2502 ppm	99.0585 %	87.6309 %	83.7462 %	97.9276 %	69.9417 %	86.3309 %
Concentration per Run 2	0.2490 ppm	98.3593 %	87.6833 %	83.8468 %	95.8160 %	70.0498 %	85.8391 %
Concentration per Run 3	0.2503 ppm	98.7347 %	87.5497 %	83.3351 %	96.1291 %	69.4068 %	85.6611 %
Concentration RSD	0.3 %	0.4 %	0.1 %	0.3 %	1.2 %	0.5 %	0.4 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2454081-01 WG1975964
Analysis started at: 9/26/2024 4:54:59 PM
Comments <Comment>
Rack: 1
Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0102 ppm	-0.0019 ppm	0.0775 ppm	0.0970 ppm	0.0000 ppm	89.5011 ppm
Concentration per Run 1	0.0006 ppm	0.0079 ppm	-0.0022 ppm	0.0775 ppm	0.0928 ppm	0.0000 ppm	85.7611 ppm
Concentration per Run 2	0.0002 ppm	0.0103 ppm	-0.0003 ppm	0.0780 ppm	0.0985 ppm	0.0000 ppm	91.5526 ppm
Concentration per Run 3	0.0006 ppm	0.0126 ppm	-0.0031 ppm	0.0771 ppm	0.0998 ppm	0.0000 ppm	91.1896 ppm
Concentration RSD	45.1 %	23.2 %	77.9 %	0.6 %	3.8 %	65.5 %	3.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0067 ppm	0.0141 ppm	9.0786 ppm	-0.0058 ppm
Concentration per Run 1	-0.0005 ppm	0.0002 ppm	0.0001 ppm	0.0069 ppm	0.0137 ppm	8.8482 ppm	-0.0056 ppm
Concentration per Run 2	-0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0066 ppm	0.0141 ppm	8.9921 ppm	-0.0062 ppm
Concentration per Run 3	-0.0005 ppm	0.0003 ppm	-0.0001 ppm	0.0068 ppm	0.0146 ppm	9.3954 ppm	-0.0055 ppm
Concentration RSD	2.6 %	116.8 %	306.1 %	2.3 %	3.3 %	3.1 %	6.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	18.3971 ppm	0.0236 ppm	0.0010 ppm	295.7108 ppm	0.0025 ppm	-0.0030 ppm	0.0015 ppm
Concentration per Run 1	18.3545 ppm	0.0229 ppm	0.0010 ppm	283.7474 ppm	0.0026 ppm	-0.0036 ppm	0.0021 ppm
Concentration per Run 2	18.4507 ppm	0.0243 ppm	0.0011 ppm	304.5666 ppm	0.0024 ppm	-0.0030 ppm	0.0011 ppm
Concentration per Run 3	18.3862 ppm	0.0237 ppm	0.0009 ppm	298.8184 ppm	0.0024 ppm	-0.0023 ppm	0.0013 ppm
Concentration RSD	0.3 %	2.9 %	6.4 %	3.6 %	4.0 %	22.4 %	37.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	6.5217 ppm	-0.0006 ppm	0.5203 ppm	-0.0005 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	0.0029 ppm	6.5356 ppm	-0.0006 ppm	0.4980 ppm	-0.0005 ppm	-0.0011 ppm	0.0001 ppm
Concentration per Run 2	0.0003 ppm	6.5367 ppm	-0.0007 ppm	0.5279 ppm	-0.0006 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 3	-0.0002 ppm	6.4928 ppm	-0.0003 ppm	0.5350 ppm	-0.0002 ppm	0.0011 ppm	0.0003 ppm
Concentration RSD	168.5 %	0.4 %	40.3 %	3.8 %	42.0 %	2,505.7 %	114.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2451 ppm	99.0439 %	86.6004 %	83.1944 %	96.8859 %	69.3475 %	85.2485 %
Concentration per Run 1	0.2449 ppm	101.1949 %	86.6970 %	83.1343 %	101.4707 %	69.2888 %	85.1535 %
Concentration per Run 2	0.2459 ppm	97.5425 %	86.7770 %	82.8340 %	94.7923 %	69.1174 %	85.2620 %
Concentration per Run 3	0.2445 ppm	98.3943 %	86.3273 %	83.6148 %	94.3946 %	69.6362 %	85.3299 %
Concentration RSD	0.3 %	1.9 %	0.3 %	0.5 %	4.1 %	0.4 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-7 WG1975964
Analysis started at: 9/26/2024 5:01:24 PM
Comments <Comment>
Rack: 1
Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0556 ppm	2.1417 ppm	0.1305 ppm	1.0977 ppm	2.1985 ppm	0.0504 ppm	97.7575 ppm
Concentration per Run 1	0.0561 ppm	2.1029 ppm	0.1313 ppm	1.0947 ppm	2.1410 ppm	0.0494 ppm	96.1657 ppm
Concentration per Run 2	0.0547 ppm	2.1451 ppm	0.1299 ppm	1.0989 ppm	2.2357 ppm	0.0505 ppm	98.2247 ppm
Concentration per Run 3	0.0560 ppm	2.1771 ppm	0.1302 ppm	1.0995 ppm	2.2189 ppm	0.0514 ppm	98.8820 ppm
Concentration RSD	1.4 %	1.7 %	0.6 %	0.2 %	2.3 %	1.9 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0515 ppm	0.5201 ppm	0.1929 ppm	0.2795 ppm	1.0070 ppm	20.3483 ppm	-0.0064 ppm
Concentration per Run 1	0.0516 ppm	0.5216 ppm	0.1938 ppm	0.2795 ppm	0.9868 ppm	20.1760 ppm	-0.0060 ppm
Concentration per Run 2	0.0514 ppm	0.5199 ppm	0.1931 ppm	0.2786 ppm	1.0098 ppm	20.4138 ppm	-0.0066 ppm
Concentration per Run 3	0.0515 ppm	0.5189 ppm	0.1918 ppm	0.2804 ppm	1.0244 ppm	20.4550 ppm	-0.0065 ppm
Concentration RSD	0.3 %	0.3 %	0.5 %	0.3 %	1.9 %	0.7 %	5.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	27.2278 ppm	0.5106 ppm	0.9979 ppm	309.7048 ppm	0.5180 ppm	0.5398 ppm	0.5855 ppm
Concentration per Run 1	27.2664 ppm	0.5026 ppm	0.9967 ppm	310.6392 ppm	0.5210 ppm	0.5426 ppm	0.5889 ppm
Concentration per Run 2	27.2479 ppm	0.5126 ppm	0.9966 ppm	315.7442 ppm	0.5172 ppm	0.5402 ppm	0.5842 ppm
Concentration per Run 3	27.1690 ppm	0.5165 ppm	1.0004 ppm	302.7309 ppm	0.5158 ppm	0.5367 ppm	0.5834 ppm
Concentration RSD	0.2 %	1.4 %	0.2 %	2.1 %	0.5 %	0.5 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1268 ppm	7.3443 ppm	0.9320 ppm	1.5148 ppm	1.0067 ppm	0.1143 ppm	0.5058 ppm
Concentration per Run 1	0.1250 ppm	7.3736 ppm	0.9298 ppm	1.4675 ppm	1.0086 ppm	0.1149 ppm	0.5062 ppm
Concentration per Run 2	0.1282 ppm	7.3511 ppm	0.9315 ppm	1.5451 ppm	1.0051 ppm	0.1139 ppm	0.5058 ppm
Concentration per Run 3	0.1272 ppm	7.3082 ppm	0.9347 ppm	1.5318 ppm	1.0063 ppm	0.1142 ppm	0.5053 ppm
Concentration RSD	1.3 %	0.5 %	0.3 %	2.7 %	0.2 %	0.5 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.7203 ppm	96.5365 %	86.2658 %	83.0128 %	94.2407 %	68.8049 %	84.8070 %
Concentration per Run 1	0.7210 ppm	96.6314 %	86.2088 %	83.2467 %	96.2109 %	68.6390 %	84.7408 %
Concentration per Run 2	0.7181 ppm	96.5178 %	86.2073 %	83.0996 %	93.8507 %	68.8627 %	84.8901 %
Concentration per Run 3	0.7219 ppm	96.4604 %	86.3812 %	82.6921 %	92.6607 %	68.9132 %	84.7901 %
Concentration RSD	0.3 %	0.1 %	0.1 %	0.3 %	1.9 %	0.2 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-8 WG1975964
Analysis started at: 9/26/2024 5:07:46 PM
Comments <Comment>
Rack: 1
Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0071 ppm	-0.0012 ppm	0.0789 ppm	0.0988 ppm	-0.0001 ppm	90.7932 ppm
Concentration per Run 1	0.0006 ppm	0.0093 ppm	-0.0010 ppm	0.0796 ppm	0.0973 ppm	0.0000 ppm	89.9945 ppm
Concentration per Run 2	-0.0001 ppm	0.0122 ppm	-0.0008 ppm	0.0790 ppm	0.0998 ppm	-0.0001 ppm	90.8556 ppm
Concentration per Run 3	0.0003 ppm	-0.0004 ppm	-0.0016 ppm	0.0782 ppm	0.0995 ppm	-0.0001 ppm	91.5294 ppm
Concentration RSD	110.0 %	93.4 %	36.7 %	0.8 %	1.4 %	44.0 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0069 ppm	0.0144 ppm	9.2388 ppm	-0.0060 ppm
Concentration per Run 1	-0.0005 ppm	0.0001 ppm	-0.0001 ppm	0.0068 ppm	0.0143 ppm	8.9531 ppm	-0.0061 ppm
Concentration per Run 2	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0066 ppm	0.0145 ppm	9.4549 ppm	-0.0058 ppm
Concentration per Run 3	-0.0005 ppm	0.0000 ppm	0.0003 ppm	0.0072 ppm	0.0143 ppm	9.3083 ppm	-0.0062 ppm
Concentration RSD	3.3 %	180.9 %	374.3 %	4.4 %	0.6 %	2.8 %	3.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	18.4806 ppm	0.0239 ppm	0.0018 ppm	300.6255 ppm	0.0021 ppm	-0.0028 ppm	0.0013 ppm
Concentration per Run 1	18.3897 ppm	0.0238 ppm	0.0019 ppm	295.3577 ppm	0.0021 ppm	-0.0028 ppm	0.0015 ppm
Concentration per Run 2	18.5488 ppm	0.0238 ppm	0.0017 ppm	293.3704 ppm	0.0021 ppm	-0.0031 ppm	0.0011 ppm
Concentration per Run 3	18.5032 ppm	0.0240 ppm	0.0017 ppm	313.1483 ppm	0.0021 ppm	-0.0025 ppm	0.0014 ppm
Concentration RSD	0.4 %	0.5 %	5.7 %	3.6 %	0.7 %	11.0 %	16.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	6.5796 ppm	-0.0005 ppm	0.5301 ppm	-0.0004 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 1	-0.0010 ppm	6.6213 ppm	-0.0002 ppm	0.5218 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	-0.0002 ppm	6.5626 ppm	-0.0008 ppm	0.5348 ppm	-0.0003 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 3	0.0016 ppm	6.5548 ppm	-0.0005 ppm	0.5338 ppm	-0.0004 ppm	-0.0007 ppm	0.0001 ppm
Concentration RSD	999.9 %	0.6 %	60.0 %	1.4 %	22.5 %	90.0 %	22.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2478 ppm	97.5992 %	86.3720 %	83.4844 %	95.5765 %	69.4173 %	85.0641 %
Concentration per Run 1	0.2474 ppm	97.8967 %	86.4372 %	82.8252 %	97.0875 %	68.8464 %	85.1237 %
Concentration per Run 2	0.2472 ppm	98.0207 %	86.4621 %	83.7137 %	95.3475 %	69.6628 %	85.2099 %
Concentration per Run 3	0.2488 ppm	96.8800 %	86.2167 %	83.9142 %	94.2945 %	69.7426 %	84.8587 %
Concentration RSD	0.4 %	0.6 %	0.2 %	0.7 %	1.5 %	0.7 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-9 WG1975964
Analysis started at: 9/26/2024 5:14:11 PM
Comments <Comment>
Rack: 1
Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0548 ppm	2.0699 ppm	0.1295 ppm	1.0927 ppm	2.1543 ppm	0.0486 ppm	95.7879 ppm
Concentration per Run 1	0.0547 ppm	2.0050 ppm	0.1315 ppm	1.0937 ppm	2.0378 ppm	0.0471 ppm	92.9256 ppm
Concentration per Run 2	0.0549 ppm	2.0902 ppm	0.1279 ppm	1.0918 ppm	2.2223 ppm	0.0493 ppm	97.6232 ppm
Concentration per Run 3	0.0549 ppm	2.1145 ppm	0.1292 ppm	1.0926 ppm	2.2029 ppm	0.0494 ppm	96.8149 ppm
Concentration RSD	0.2 %	2.8 %	1.4 %	0.1 %	4.7 %	2.6 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0499 ppm	0.5084 ppm	0.1891 ppm	0.2757 ppm	0.9618 ppm	19.9543 ppm	-0.0060 ppm
Concentration per Run 1	0.0500 ppm	0.5075 ppm	0.1903 ppm	0.2748 ppm	0.9261 ppm	19.2290 ppm	-0.0061 ppm
Concentration per Run 2	0.0499 ppm	0.5097 ppm	0.1888 ppm	0.2759 ppm	0.9804 ppm	20.0856 ppm	-0.0061 ppm
Concentration per Run 3	0.0498 ppm	0.5082 ppm	0.1881 ppm	0.2764 ppm	0.9790 ppm	20.5484 ppm	-0.0057 ppm
Concentration RSD	0.2 %	0.2 %	0.6 %	0.3 %	3.2 %	3.4 %	3.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	27.2227 ppm	0.4906 ppm	0.9987 ppm	303.7182 ppm	0.5059 ppm	0.5317 ppm	0.5648 ppm
Concentration per Run 1	27.2138 ppm	0.4741 ppm	0.9975 ppm	304.9066 ppm	0.5049 ppm	0.5313 ppm	0.5662 ppm
Concentration per Run 2	27.2167 ppm	0.4994 ppm	0.9978 ppm	306.3547 ppm	0.5074 ppm	0.5328 ppm	0.5642 ppm
Concentration per Run 3	27.2376 ppm	0.4983 ppm	1.0010 ppm	299.8935 ppm	0.5055 ppm	0.5312 ppm	0.5639 ppm
Concentration RSD	0.0 %	2.9 %	0.2 %	1.1 %	0.3 %	0.2 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1273 ppm	6.9549 ppm	0.9437 ppm	1.4860 ppm	1.0038 ppm	0.1133 ppm	0.4961 ppm
Concentration per Run 1	0.1278 ppm	6.9332 ppm	0.9463 ppm	1.4452 ppm	1.0069 ppm	0.1131 ppm	0.4988 ppm
Concentration per Run 2	0.1262 ppm	6.9730 ppm	0.9440 ppm	1.4988 ppm	1.0044 ppm	0.1141 ppm	0.4971 ppm
Concentration per Run 3	0.1279 ppm	6.9586 ppm	0.9407 ppm	1.5141 ppm	1.0002 ppm	0.1128 ppm	0.4924 ppm
Concentration RSD	0.7 %	0.3 %	0.3 %	2.4 %	0.3 %	0.6 %	0.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.7093 ppm	97.9565 %	86.8626 %	83.3123 %	95.6256 %	69.2963 %	84.8577 %
Concentration per Run 1	0.7108 ppm	100.2123 %	87.0240 %	83.6338 %	99.0080 %	69.6405 %	84.7329 %
Concentration per Run 2	0.7082 ppm	96.3924 %	86.9016 %	82.9992 %	93.6919 %	68.9286 %	84.8389 %
Concentration per Run 3	0.7089 ppm	97.2647 %	86.6623 %	83.3040 %	94.1770 %	69.3197 %	85.0012 %
Concentration RSD	0.2 %	2.0 %	0.2 %	0.4 %	3.1 %	0.5 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: WG1975964-10d5 WG1975964
Analysis started at: 9/26/2024 5:20:34 PM
Comments <Comment>
Rack: 1
Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0000 ppm	-0.0004 ppm	0.0190 ppm	0.0199 ppm	0.0000 ppm	18.4340 ppm
Concentration per Run 1	0.0003 ppm	0.0012 ppm	-0.0011 ppm	0.0189 ppm	0.0192 ppm	0.0000 ppm	17.8380 ppm
Concentration per Run 2	0.0003 ppm	-0.0003 ppm	0.0001 ppm	0.0190 ppm	0.0199 ppm	0.0000 ppm	18.4300 ppm
Concentration per Run 3	0.0002 ppm	-0.0010 ppm	0.0000 ppm	0.0189 ppm	0.0207 ppm	0.0000 ppm	19.0341 ppm
Concentration RSD	20.9 %	4,476.1 %	182.0 %	0.3 %	3.9 %	265.6 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0018 ppm	0.0045 ppm	1.8625 ppm	-0.0013 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0018 ppm	0.0041 ppm	1.7957 ppm	-0.0011 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0019 ppm	0.0044 ppm	1.8414 ppm	-0.0016 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0016 ppm	0.0049 ppm	1.9504 ppm	-0.0013 ppm
Concentration RSD	36.8 %	358.9 %	413.5 %	8.7 %	8.4 %	4.3 %	16.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.9609 ppm	0.0049 ppm	0.0008 ppm	64.9563 ppm	0.0003 ppm	-0.0009 ppm	0.0006 ppm
Concentration per Run 1	3.9516 ppm	0.0049 ppm	0.0010 ppm	63.0961 ppm	0.0002 ppm	-0.0009 ppm	0.0003 ppm
Concentration per Run 2	3.9654 ppm	0.0050 ppm	0.0008 ppm	64.6053 ppm	0.0004 ppm	-0.0007 ppm	0.0004 ppm
Concentration per Run 3	3.9657 ppm	0.0049 ppm	0.0006 ppm	67.1676 ppm	0.0005 ppm	-0.0009 ppm	0.0011 ppm
Concentration RSD	0.2 %	1.2 %	26.3 %	3.2 %	48.0 %	13.7 %	78.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0014 ppm	1.1954 ppm	0.0006 ppm	0.1070 ppm	0.0001 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	0.0014 ppm	1.1957 ppm	0.0006 ppm	0.1031 ppm	0.0000 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 2	0.0022 ppm	1.1949 ppm	0.0008 ppm	0.1071 ppm	0.0001 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 3	0.0006 ppm	1.1957 ppm	0.0004 ppm	0.1107 ppm	0.0001 ppm	-0.0003 ppm	-0.0001 ppm
Concentration RSD	58.1 %	0.0 %	36.1 %	3.5 %	84.9 %	55.6 %	96.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0513 ppm	99.2687 %	93.3628 %	89.7767 %	97.2796 %	83.8624 %	91.8086 %
Concentration per Run 1	0.0512 ppm	100.8182 %	93.3761 %	89.7048 %	100.8052 %	83.9567 %	91.6172 %
Concentration per Run 2	0.0516 ppm	99.6581 %	93.6080 %	89.9932 %	97.1534 %	84.0089 %	91.7541 %
Concentration per Run 3	0.0510 ppm	97.3299 %	93.1042 %	89.6322 %	93.8801 %	83.6217 %	92.0546 %
Concentration RSD	0.6 %	1.8 %	0.3 %	0.2 %	3.6 %	0.3 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453698-01d20 WG1973911
Analysis started at: 9/26/2024 5:26:53 PM
Comments <Comment>
Rack: 2
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0006 ppm	-0.0006 ppm	0.0519 ppm	0.0157 ppm	0.0000 ppm	6.8640 ppm
Concentration per Run 1	0.0000 ppm	-0.0031 ppm	0.0001 ppm	0.0518 ppm	0.0154 ppm	0.0000 ppm	6.7672 ppm
Concentration per Run 2	0.0001 ppm	0.0021 ppm	-0.0010 ppm	0.0520 ppm	0.0157 ppm	0.0000 ppm	6.8985 ppm
Concentration per Run 3	0.0001 ppm	0.0026 ppm	-0.0009 ppm	0.0518 ppm	0.0159 ppm	0.0000 ppm	6.9263 ppm
Concentration RSD	165.8 %	562.5 %	99.3 %	0.3 %	1.7 %	77.8 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0045 ppm	0.0002 ppm	0.0012 ppm	0.4831 ppm	7.3821 ppm	-0.0046 ppm
Concentration per Run 1	-0.0001 ppm	0.0044 ppm	0.0002 ppm	0.0010 ppm	0.4738 ppm	7.1586 ppm	-0.0045 ppm
Concentration per Run 2	-0.0001 ppm	0.0046 ppm	0.0003 ppm	0.0011 ppm	0.4832 ppm	7.4207 ppm	-0.0045 ppm
Concentration per Run 3	0.0000 ppm	0.0046 ppm	0.0001 ppm	0.0013 ppm	0.4923 ppm	7.5669 ppm	-0.0047 ppm
Concentration RSD	40.1 %	2.4 %	65.1 %	12.9 %	1.9 %	2.8 %	2.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	16.0691 ppm	0.4216 ppm	0.0014 ppm	181.9190 ppm	0.0002 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 1	16.0500 ppm	0.4141 ppm	0.0014 ppm	189.5180 ppm	0.0005 ppm	-0.0015 ppm	0.0002 ppm
Concentration per Run 2	16.0811 ppm	0.4234 ppm	0.0014 ppm	178.7398 ppm	-0.0001 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 3	16.0761 ppm	0.4273 ppm	0.0014 ppm	177.4992 ppm	0.0001 ppm	-0.0002 ppm	-0.0004 ppm
Concentration RSD	0.1 %	1.6 %	0.8 %	3.6 %	151.1 %	93.8 %	3,838.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0003 ppm	0.0677 ppm	0.0001 ppm	0.1269 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	-0.0001 ppm	0.0668 ppm	-0.0002 ppm	0.1243 ppm	0.0002 ppm	-0.0009 ppm	0.0003 ppm
Concentration per Run 2	-0.0015 ppm	0.0691 ppm	0.0002 ppm	0.1272 ppm	0.0001 ppm	0.0009 ppm	0.0003 ppm
Concentration per Run 3	0.0007 ppm	0.0672 ppm	0.0005 ppm	0.1292 ppm	0.0002 ppm	-0.0001 ppm	0.0002 ppm
Concentration RSD	365.3 %	1.8 %	252.6 %	1.9 %	36.0 %	3,016.5 %	29.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0201 ppm	98.1676 %	89.5612 %	87.6296 %	95.3275 %	76.0897 %	88.3065 %
Concentration per Run 1	0.0203 ppm	98.2438 %	89.4468 %	87.9399 %	97.0196 %	76.5594 %	88.0427 %
Concentration per Run 2	0.0200 ppm	97.8853 %	89.6420 %	87.0742 %	95.0078 %	75.4408 %	88.1240 %
Concentration per Run 3	0.0199 ppm	98.3738 %	89.5949 %	87.8747 %	93.9551 %	76.2690 %	88.7527 %
Concentration RSD	0.9 %	0.3 %	0.1 %	0.6 %	1.6 %	0.8 %	0.4 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453855-01d100 WG1975237
Analysis started at: 9/26/2024 5:33:22 PM
Comments RR for BE FE
Rack: 1
Vial: 59

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0011 ppm	1.4863 ppm	0.0090 ppm	0.0164 ppm	0.0817 ppm	0.0007 ppm	3.1301 ppm
Concentration per Run 1	0.0012 ppm	1.4477 ppm	0.0092 ppm	0.0165 ppm	0.0798 ppm	0.0007 ppm	3.0397 ppm
Concentration per Run 2	0.0009 ppm	1.5082 ppm	0.0090 ppm	0.0163 ppm	0.0828 ppm	0.0007 ppm	3.1578 ppm
Concentration per Run 3	0.0012 ppm	1.5029 ppm	0.0089 ppm	0.0165 ppm	0.0825 ppm	0.0008 ppm	3.1927 ppm
Concentration RSD	15.4 %	2.3 %	1.6 %	0.8 %	2.0 %	5.4 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0005 ppm	0.0066 ppm	0.0323 ppm	18.2372 ppm	14.8727 ppm	0.2240 ppm	0.0022 ppm
Concentration per Run 1	0.0005 ppm	0.0066 ppm	0.0321 ppm	18.2253 ppm	14.4663 ppm	0.2423 ppm	0.0017 ppm
Concentration per Run 2	0.0005 ppm	0.0067 ppm	0.0324 ppm	18.2201 ppm	15.0596 ppm	0.2121 ppm	0.0021 ppm
Concentration per Run 3	0.0004 ppm	0.0065 ppm	0.0323 ppm	18.2663 ppm	15.0921 ppm	0.2175 ppm	0.0029 ppm
Concentration RSD	9.3 %	1.5 %	0.4 %	0.1 %	2.4 %	7.2 %	27.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.6411 ppm	0.1084 ppm	0.0186 ppm	0.3136 ppm	0.0400 ppm	0.0831 ppm	0.0009 ppm
Concentration per Run 1	0.6440 ppm	0.1057 ppm	0.0186 ppm	0.3054 ppm	0.0398 ppm	0.0831 ppm	0.0005 ppm
Concentration per Run 2	0.6395 ppm	0.1090 ppm	0.0185 ppm	0.3190 ppm	0.0403 ppm	0.0833 ppm	0.0005 ppm
Concentration per Run 3	0.6398 ppm	0.1104 ppm	0.0189 ppm	0.3163 ppm	0.0399 ppm	0.0830 ppm	0.0017 ppm
Concentration RSD	0.4 %	2.2 %	1.1 %	2.3 %	0.6 %	0.2 %	75.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	0.4620 ppm	0.0356 ppm	0.0273 ppm	0.0705 ppm	-0.0007 ppm	0.0041 ppm
Concentration per Run 1	-0.0008 ppm	0.4623 ppm	0.0355 ppm	0.0267 ppm	0.0705 ppm	-0.0008 ppm	0.0041 ppm
Concentration per Run 2	0.0018 ppm	0.4623 ppm	0.0354 ppm	0.0277 ppm	0.0704 ppm	-0.0007 ppm	0.0041 ppm
Concentration per Run 3	0.0011 ppm	0.4614 ppm	0.0359 ppm	0.0276 ppm	0.0705 ppm	-0.0006 ppm	0.0041 ppm
Concentration RSD	191.4 %	0.1 %	0.6 %	2.0 %	0.1 %	13.5 %	1.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	4.6931 ppm	101.2335 %	97.1184 %	84.1453 %	98.8145 %	92.0205 %	95.7216 %
Concentration per Run 1	4.6871 ppm	101.9118 %	97.3459 %	84.4329 %	101.7137 %	92.1169 %	95.9586 %
Concentration per Run 2	4.7080 ppm	101.7832 %	96.8985 %	84.1583 %	98.1942 %	92.0003 %	95.6283 %
Concentration per Run 3	4.6840 ppm	100.0056 %	97.1108 %	83.8449 %	96.5356 %	91.9442 %	95.5778 %
Concentration RSD	0.3 %	1.1 %	0.2 %	0.3 %	2.7 %	0.1 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453855-02d10 WG1975237
Analysis started at: 9/26/2024 5:39:49 PM
Comments RR for BE FE
Rack: 1
Vial: 60

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0018 ppm	16.1838 ppm	0.1190 ppm	0.0650 ppm	0.1786 ppm	0.0035 ppm	13.9678 ppm
Concentration per Run 1	0.0019 ppm	16.0277 ppm	0.1186 ppm	0.0648 ppm	0.1769 ppm	0.0035 ppm	13.8606 ppm
Concentration per Run 2	0.0016 ppm	16.2650 ppm	0.1183 ppm	0.0655 ppm	0.1798 ppm	0.0035 ppm	14.0849 ppm
Concentration per Run 3	0.0017 ppm	16.2588 ppm	0.1202 ppm	0.0647 ppm	0.1790 ppm	0.0035 ppm	13.9578 ppm
Concentration RSD	10.0 %	0.8 %	0.8 %	0.7 %	0.8 %	0.1 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0047 ppm	0.0669 ppm	0.1988 ppm	5.7602 ppm	114.6813 ppm	3.2597 ppm	0.0176 ppm
Concentration per Run 1	0.0047 ppm	0.0664 ppm	0.1993 ppm	5.7695 ppm	114.5313 ppm	3.2035 ppm	0.0173 ppm
Concentration per Run 2	0.0047 ppm	0.0669 ppm	0.1989 ppm	5.7239 ppm	115.4019 ppm	3.2567 ppm	0.0176 ppm
Concentration per Run 3	0.0047 ppm	0.0675 ppm	0.1983 ppm	5.7873 ppm	114.1107 ppm	3.3188 ppm	0.0178 ppm
Concentration RSD	0.5 %	0.8 %	0.3 %	0.6 %	0.6 %	1.8 %	1.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.8411 ppm	0.6373 ppm	0.2359 ppm	12.7296 ppm	0.1930 ppm	0.7874 ppm	0.0247 ppm
Concentration per Run 1	9.8245 ppm	0.6305 ppm	0.2355 ppm	12.5627 ppm	0.1913 ppm	0.7828 ppm	0.0251 ppm
Concentration per Run 2	9.8441 ppm	0.6420 ppm	0.2354 ppm	12.7111 ppm	0.1930 ppm	0.7855 ppm	0.0239 ppm
Concentration per Run 3	9.8547 ppm	0.6393 ppm	0.2369 ppm	12.9151 ppm	0.1949 ppm	0.7939 ppm	0.0251 ppm
Concentration RSD	0.2 %	0.9 %	0.4 %	1.4 %	0.9 %	0.7 %	2.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0026 ppm	3.7600 ppm	0.1187 ppm	0.1115 ppm	0.8218 ppm	0.0003 ppm	0.0951 ppm
Concentration per Run 1	0.0020 ppm	3.7355 ppm	0.1181 ppm	0.1105 ppm	0.8219 ppm	-0.0001 ppm	0.0949 ppm
Concentration per Run 2	0.0025 ppm	3.7601 ppm	0.1185 ppm	0.1121 ppm	0.8231 ppm	0.0013 ppm	0.0952 ppm
Concentration per Run 3	0.0034 ppm	3.7843 ppm	0.1197 ppm	0.1118 ppm	0.8205 ppm	-0.0003 ppm	0.0953 ppm
Concentration RSD	27.8 %	0.6 %	0.7 %	0.8 %	0.2 %	296.5 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	5.7859 ppm	105.1587 %	98.0106 %	90.7127 %	98.9943 %	82.2430 %	92.5189 %
Concentration per Run 1	5.7871 ppm	105.0019 %	97.8520 %	90.9982 %	99.7757 %	82.9364 %	92.6136 %
Concentration per Run 2	5.7544 ppm	105.1105 %	98.1589 %	90.7465 %	98.4594 %	82.3100 %	92.2545 %
Concentration per Run 3	5.8163 ppm	105.3637 %	98.0210 %	90.3935 %	98.7478 %	81.4826 %	92.6886 %
Concentration RSD	0.5 %	0.2 %	0.2 %	0.3 %	0.7 %	0.9 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCV
Analysis started at: 9/26/2024 5:46:15 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5060 ppm	0.5115 ppm	0.5055 ppm	0.5226 ppm	0.5162 ppm	0.4956 ppm	0.4795 ppm
Concentration per Run 1	0.5071 ppm	0.4950 ppm	0.5047 ppm	0.5203 ppm	0.4972 ppm	0.4793 ppm	0.4670 ppm
Concentration per Run 2	0.5059 ppm	0.5262 ppm	0.5101 ppm	0.5282 ppm	0.5255 ppm	0.5031 ppm	0.4847 ppm
Concentration per Run 3	0.5050 ppm	0.5132 ppm	0.5018 ppm	0.5193 ppm	0.5260 ppm	0.5043 ppm	0.4868 ppm
Recovery Percentage 1	101.203 %	102.293 %	101.105 %	104.522 %	103.248 %	99.112 %	95.896 %
Concentration RSD	0.2 %	3.1 %	0.8 %	0.9 %	3.2 %	2.8 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4892 ppm	0.4785 ppm	0.4826 ppm	0.5050 ppm	0.4864 ppm	5.4752 ppm	0.5413 ppm
Concentration per Run 1	0.4889 ppm	0.4771 ppm	0.4831 ppm	0.5065 ppm	0.4716 ppm	5.3750 ppm	0.5176 ppm
Concentration per Run 2	0.4910 ppm	0.4817 ppm	0.4819 ppm	0.5032 ppm	0.4926 ppm	5.5438 ppm	0.5528 ppm
Concentration per Run 3	0.4877 ppm	0.4768 ppm	0.4827 ppm	0.5053 ppm	0.4950 ppm	5.5070 ppm	0.5536 ppm
Recovery Percentage 1	97.840 %	95.705 %	96.510 %	101.001 %	97.280 %	109.505 %	108.268 %
Concentration RSD	0.3 %	0.6 %	0.1 %	0.3 %	2.7 %	1.6 %	3.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5032 ppm	0.4741 ppm	0.5068 ppm	10.6890 ppm	0.4757 ppm	0.4844 ppm	0.4932 ppm
Concentration per Run 1	0.5036 ppm	0.4609 ppm	0.5045 ppm	10.2285 ppm	0.4740 ppm	0.4839 ppm	0.4908 ppm
Concentration per Run 2	0.5037 ppm	0.4802 ppm	0.5105 ppm	10.9545 ppm	0.4789 ppm	0.4877 ppm	0.4979 ppm
Concentration per Run 3	0.5023 ppm	0.4811 ppm	0.5054 ppm	10.8839 ppm	0.4741 ppm	0.4817 ppm	0.4908 ppm
Recovery Percentage 1	100.644 %	94.813 %	101.363 %	106.890 %	95.134 %	96.889 %	98.631 %
Concentration RSD	0.2 %	2.4 %	0.6 %	3.7 %	0.6 %	0.6 %	0.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5173 ppm	5.4040 ppm	0.4989 ppm	0.4915 ppm	0.5028 ppm	0.5070 ppm	0.4912 ppm
Concentration per Run 1	0.5143 ppm	5.3838 ppm	0.4955 ppm	0.4738 ppm	0.5040 ppm	0.5043 ppm	0.4927 ppm
Concentration per Run 2	0.5223 ppm	5.4492 ppm	0.5027 ppm	0.4997 ppm	0.5005 ppm	0.5115 ppm	0.4890 ppm
Concentration per Run 3	0.5153 ppm	5.3790 ppm	0.4984 ppm	0.5011 ppm	0.5038 ppm	0.5053 ppm	0.4921 ppm
Recovery Percentage 1	103.462 %	102.934 %	99.774 %	98.302 %	100.557 %	101.407 %	98.249 %
Concentration RSD	0.8 %	0.7 %	0.7 %	3.1 %	0.4 %	0.8 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4886 ppm	101.5383 %	96.7991 %	93.4987 %	98.7194 %	89.3784 %	95.7028 %
Concentration per Run 1	0.4884 ppm	102.5186 %	96.7491 %	94.0985 %	101.9021 %	89.8819 %	95.5065 %
Concentration per Run 2	0.4901 ppm	101.1067 %	96.7942 %	92.6295 %	97.0688 %	88.6023 %	96.1093 %
Concentration per Run 3	0.4874 ppm	100.9897 %	96.8539 %	93.7680 %	97.1873 %	89.6510 %	95.4925 %
Recovery Percentage 1	97.721 %						
Concentration RSD	0.3 %	0.8 %	0.1 %	0.8 %	2.8 %	0.8 %	0.4 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCB
Analysis started at: 9/26/2024 5:52:17 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0020 ppm	-0.0005 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 1	0.0003 ppm	-0.0041 ppm	-0.0002 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 2	0.0000 ppm	-0.0017 ppm	0.0003 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	-0.0018 ppm
Concentration per Run 3	0.0003 ppm	-0.0001 ppm	-0.0016 ppm	0.0017 ppm	0.0000 ppm	0.0001 ppm	-0.0013 ppm
Recovery Percentage 1	2.955 %	-1.969 %	-10.491 %	5.806 %	-0.163 %	0.547 %	-1.353 %
Concentration RSD	71.6 %	102.7 %	185.3 %	4.3 %	167.2 %	74.5 %	27.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0091 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0213 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0009 ppm	0.0147 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm	-0.0087 ppm	-0.0008 ppm
Recovery Percentage 1	0.553 %	-0.301 %	-0.422 %	1.901 %	1.476 %	0.364 %	-3.038 %
Concentration RSD	51.1 %	110.5 %	438.9 %	20.4 %	24.3 %	173.8 %	169.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0127 ppm	0.0000 ppm	-0.0006 ppm	-0.0004 ppm
Concentration per Run 1	-0.0022 ppm	0.0000 ppm	0.0001 ppm	0.0119 ppm	0.0002 ppm	-0.0008 ppm	-0.0007 ppm
Concentration per Run 2	0.0011 ppm	0.0001 ppm	0.0002 ppm	0.0147 ppm	-0.0001 ppm	-0.0004 ppm	-0.0004 ppm
Concentration per Run 3	0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0115 ppm	-0.0001 ppm	-0.0006 ppm	0.0000 ppm
Recovery Percentage 1	-0.106 %	0.323 %	0.290 %	0.635 %	0.041 %	-6.105 %	-0.791 %
Concentration RSD	1,720.7 %	101.3 %	47.8 %	13.8 %	1,946.5 %	33.4 %	87.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	0.0008 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0008 ppm	0.0006 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0013 ppm	0.0009 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 3	-0.0006 ppm	0.0007 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0006 ppm	0.0000 ppm
Recovery Percentage 1	5.027 %	0.152 %	-0.218 %	0.554 %	-0.279 %	-0.260 %	-0.286 %
Concentration RSD	198.5 %	19.4 %	335.8 %	57.2 %	106.9 %	1,239.9 %	393.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	101.7302 %	98.4572 %	94.1409 %	98.9995 %	94.3372 %	96.2883 %
Concentration per Run 1	0.0000 ppm	102.6794 %	99.1197 %	94.4163 %	101.8212 %	94.4860 %	96.4931 %
Concentration per Run 2	0.0001 ppm	101.1496 %	98.0491 %	94.1702 %	98.2668 %	94.4355 %	96.2811 %
Concentration per Run 3	0.0000 ppm	101.3617 %	98.2027 %	93.8364 %	96.9104 %	94.0900 %	96.0906 %
Recovery Percentage 1	0.249 %						
Concentration RSD	509.6 %	0.8 %	0.6 %	0.3 %	2.6 %	0.2 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: LDR 400 Na pass
Analysis started at: 9/26/2024 6:00:08 PM
Comments <Comment>
Rack: 2
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0012 ppm	-0.0007 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0102 ppm
Concentration per Run 1	0.0004 ppm	0.0014 ppm	-0.0009 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0091 ppm
Concentration per Run 2	0.0002 ppm	0.0025 ppm	-0.0013 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0120 ppm
Concentration per Run 3	-0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0097 ppm
Concentration RSD	205.0 %	117.5 %	108.0 %	12.1 %	78.8 %	590.5 %	14.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0045 ppm	0.0480 ppm	-0.0118 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0010 ppm	0.0015 ppm	0.0285 ppm	-0.0111 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0010 ppm	0.0060 ppm	0.0530 ppm	-0.0123 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0007 ppm	0.0059 ppm	0.0624 ppm	-0.0120 ppm
Concentration RSD	64.4 %	106.6 %	317.4 %	18.1 %	57.7 %	36.5 %	5.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0003 ppm	0.0001 ppm	0.0000 ppm	392.3162 ppm	-0.0008 ppm	-0.0011 ppm	-0.0001 ppm
Concentration per Run 1	-0.0019 ppm	0.0002 ppm	0.0000 ppm	383.7754 ppm	-0.0007 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 2	-0.0004 ppm	0.0001 ppm	0.0001 ppm	392.5745 ppm	-0.0010 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 3	0.0015 ppm	0.0001 ppm	0.0000 ppm	400.5988 ppm	-0.0009 ppm	-0.0011 ppm	-0.0003 ppm
Concentration RSD	610.1 %	68.0 %	252.5 %	2.1 %	14.6 %	13.0 %	172.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0010 ppm	0.0049 ppm	-0.0006 ppm	0.0003 ppm	0.0000 ppm	-0.0003 ppm	-0.0004 ppm
Concentration per Run 1	-0.0013 ppm	0.0046 ppm	-0.0002 ppm	0.0003 ppm	0.0000 ppm	-0.0005 ppm	-0.0004 ppm
Concentration per Run 2	-0.0015 ppm	0.0045 ppm	-0.0008 ppm	0.0003 ppm	0.0000 ppm	-0.0007 ppm	-0.0004 ppm
Concentration per Run 3	-0.0001 ppm	0.0057 ppm	-0.0007 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm	-0.0004 ppm
Concentration RSD	74.1 %	13.3 %	55.3 %	0.8 %	122.1 %	139.6 %	3.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	96.0904 %	86.6490 %	86.0328 %	93.5706 %	70.7546 %	85.4568 %
Concentration per Run 1	0.0002 ppm	96.7318 %	86.6750 %	85.5455 %	95.7501 %	70.5449 %	85.3185 %
Concentration per Run 2	0.0004 ppm	95.7931 %	86.4560 %	86.5097 %	92.8442 %	71.1961 %	85.7152 %
Concentration per Run 3	0.0003 ppm	95.7462 %	86.8159 %	86.0430 %	92.1174 %	70.5226 %	85.3366 %
Concentration RSD	34.6 %	0.6 %	0.2 %	0.6 %	2.1 %	0.5 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453979-03 WG1975964
Analysis started at: 9/26/2024 6:16:14 PM
Comments <Comment>
Rack: 1
Vial: 54

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0013 ppm	-0.0013 ppm	0.9124 ppm	0.0159 ppm	-0.0001 ppm	98.0719 ppm
Concentration per Run 1	0.0003 ppm	0.0012 ppm	-0.0017 ppm	0.9101 ppm	0.0157 ppm	-0.0001 ppm	96.7084 ppm
Concentration per Run 2	0.0002 ppm	0.0012 ppm	-0.0018 ppm	0.9141 ppm	0.0159 ppm	-0.0001 ppm	98.3576 ppm
Concentration per Run 3	0.0004 ppm	0.0015 ppm	-0.0005 ppm	0.9132 ppm	0.0161 ppm	0.0000 ppm	99.1496 ppm
Concentration RSD	45.8 %	12.5 %	51.5 %	0.2 %	1.4 %	43.4 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0009 ppm	0.0005 ppm	0.0005 ppm	0.0084 ppm	0.0979 ppm	6.6319 ppm	-0.0095 ppm
Concentration per Run 1	-0.0009 ppm	0.0004 ppm	0.0004 ppm	0.0084 ppm	0.0961 ppm	6.4715 ppm	-0.0096 ppm
Concentration per Run 2	-0.0009 ppm	0.0005 ppm	0.0007 ppm	0.0080 ppm	0.0989 ppm	6.7851 ppm	-0.0097 ppm
Concentration per Run 3	-0.0009 ppm	0.0006 ppm	0.0004 ppm	0.0086 ppm	0.0987 ppm	6.6393 ppm	-0.0092 ppm
Concentration RSD	4.5 %	27.3 %	34.1 %	3.4 %	1.6 %	2.4 %	2.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	20.8102 ppm	0.0533 ppm	0.0067 ppm	632.8992 [SIC LDR]	0.0004 ppm	-0.0010 ppm	0.0009 ppm
Concentration per Run 1	20.8950 ppm	0.0527 ppm	0.0068 ppm	620.2899 ppm	0.0006 ppm	-0.0015 ppm	0.0002 ppm
Concentration per Run 2	20.7241 ppm	0.0535 ppm	0.0066 ppm	639.1285 ppm	0.0004 ppm	-0.0006 ppm	0.0009 ppm
Concentration per Run 3	20.8114 ppm	0.0538 ppm	0.0067 ppm	639.2793 ppm	0.0002 ppm	-0.0010 ppm	0.0014 ppm
Concentration RSD	0.4 %	1.0 %	1.6 %	1.7 %	61.1 %	42.5 %	71.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0003 ppm	0.5542 ppm	-0.0006 ppm	0.1809 ppm	-0.0008 ppm	-0.0001 ppm	-0.0006 ppm
Concentration per Run 1	0.0013 ppm	0.5522 ppm	-0.0007 ppm	0.1776 ppm	-0.0009 ppm	0.0005 ppm	-0.0008 ppm
Concentration per Run 2	-0.0019 ppm	0.5519 ppm	-0.0004 ppm	0.1816 ppm	-0.0007 ppm	-0.0008 ppm	-0.0006 ppm
Concentration per Run 3	-0.0003 ppm	0.5584 ppm	-0.0006 ppm	0.1834 ppm	-0.0007 ppm	0.0001 ppm	-0.0003 ppm
Concentration RSD	578.3 %	0.7 %	31.0 %	1.7 %	9.6 %	1,103.0 %	43.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0020 ppm	96.4654 %	83.0944 %	80.1071 %	95.2590 %	63.2149 %	81.7574 %
Concentration per Run 1	0.0018 ppm	97.3036 %	83.2646 %	80.2588 %	97.3719 %	63.5671 %	81.9206 %
Concentration per Run 2	0.0022 ppm	96.0566 %	83.1169 %	80.0279 %	94.6231 %	63.1017 %	81.8228 %
Concentration per Run 3	0.0019 ppm	96.0358 %	82.9017 %	80.0346 %	93.7821 %	62.9759 %	81.5289 %
Concentration RSD	10.4 %	0.8 %	0.2 %	0.2 %	2.0 %	0.5 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453979-04 WG1975964
Analysis started at: 9/26/2024 6:22:41 PM
Comments <Comment>
Rack: 1
Vial: 55

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0423 ppm	-0.0015 ppm	0.3530 ppm	0.0597 ppm	-0.0001 ppm	114.5288 ppm
Concentration per Run 1	-0.0001 ppm	0.0435 ppm	-0.0012 ppm	0.3526 ppm	0.0586 ppm	-0.0001 ppm	111.9394 ppm
Concentration per Run 2	0.0002 ppm	0.0387 ppm	-0.0031 ppm	0.3541 ppm	0.0599 ppm	-0.0001 ppm	115.6141 ppm
Concentration per Run 3	0.0001 ppm	0.0446 ppm	-0.0001 ppm	0.3523 ppm	0.0605 ppm	-0.0001 ppm	116.0328 ppm
Concentration RSD	175.5 %	7.5 %	100.5 %	0.3 %	1.6 %	10.2 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0010 ppm	0.0001 ppm	0.0003 ppm	0.0177 ppm	0.1401 ppm	3.0025 ppm	-0.0010 ppm
Concentration per Run 1	-0.0009 ppm	0.0000 ppm	0.0006 ppm	0.0177 ppm	0.1369 ppm	3.0369 ppm	-0.0008 ppm
Concentration per Run 2	-0.0011 ppm	0.0004 ppm	0.0003 ppm	0.0176 ppm	0.1422 ppm	3.0172 ppm	-0.0008 ppm
Concentration per Run 3	-0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0176 ppm	0.1414 ppm	2.9535 ppm	-0.0013 ppm
Concentration RSD	6.1 %	255.4 %	89.1 %	0.2 %	2.0 %	1.5 %	29.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	24.0301 ppm	0.0162 ppm	0.0019 ppm	198.3305 ppm	0.0001 ppm	-0.0019 ppm	0.0017 ppm
Concentration per Run 1	23.9372 ppm	0.0158 ppm	0.0020 ppm	187.1956 ppm	0.0003 ppm	-0.0023 ppm	0.0021 ppm
Concentration per Run 2	24.1582 ppm	0.0164 ppm	0.0019 ppm	197.3590 ppm	-0.0001 ppm	-0.0014 ppm	0.0016 ppm
Concentration per Run 3	23.9950 ppm	0.0164 ppm	0.0018 ppm	210.4369 ppm	0.0000 ppm	-0.0020 ppm	0.0014 ppm
Concentration RSD	0.5 %	2.1 %	6.8 %	5.9 %	331.3 %	26.0 %	20.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0002 ppm	4.4949 ppm	-0.0005 ppm	0.2305 ppm	-0.0003 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 1	-0.0014 ppm	4.4925 ppm	-0.0004 ppm	0.2259 ppm	-0.0003 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 2	-0.0008 ppm	4.5003 ppm	-0.0004 ppm	0.2314 ppm	-0.0004 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 3	0.0014 ppm	4.4919 ppm	-0.0006 ppm	0.2342 ppm	-0.0002 ppm	-0.0005 ppm	-0.0003 ppm
Concentration RSD	572.7 %	0.1 %	26.8 %	1.8 %	33.6 %	60.1 %	10.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0109 ppm	98.8421 %	87.1625 %	81.2461 %	96.3798 %	69.6566 %	85.7648 %
Concentration per Run 1	0.0109 ppm	99.3153 %	87.0184 %	81.2829 %	98.8599 %	69.8114 %	85.7205 %
Concentration per Run 2	0.0108 ppm	98.2892 %	87.3277 %	81.1362 %	95.6364 %	69.6387 %	85.9136 %
Concentration per Run 3	0.0110 ppm	98.9219 %	87.1413 %	81.3191 %	94.6430 %	69.5196 %	85.6604 %
Concentration RSD	0.9 %	0.5 %	0.2 %	0.1 %	2.3 %	0.2 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2454039-01 WG1975964
Analysis started at: 9/26/2024 6:29:08 PM
Comments <Comment>
Rack: 1
Vial: 56

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0007 ppm	0.0612 ppm	0.0003 ppm	0.0903 ppm	0.0131 ppm	0.0000 ppm	5.7036 ppm
Concentration per Run 1	0.0005 ppm	0.0616 ppm	0.0003 ppm	0.0900 ppm	0.0130 ppm	0.0000 ppm	5.6515 ppm
Concentration per Run 2	0.0009 ppm	0.0590 ppm	0.0000 ppm	0.0906 ppm	0.0131 ppm	0.0000 ppm	5.7278 ppm
Concentration per Run 3	0.0005 ppm	0.0631 ppm	0.0005 ppm	0.0902 ppm	0.0132 ppm	0.0000 ppm	5.7313 ppm
Concentration RSD	34.7 %	3.4 %	100.1 %	0.3 %	0.9 %	197.0 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0038 ppm	0.0014 ppm	0.0569 ppm	0.1281 ppm	7.2108 ppm	-0.0025 ppm
Concentration per Run 1	0.0000 ppm	0.0039 ppm	0.0014 ppm	0.0566 ppm	0.1275 ppm	7.2254 ppm	-0.0025 ppm
Concentration per Run 2	0.0000 ppm	0.0036 ppm	0.0012 ppm	0.0569 ppm	0.1264 ppm	7.1497 ppm	-0.0023 ppm
Concentration per Run 3	0.0000 ppm	0.0040 ppm	0.0017 ppm	0.0571 ppm	0.1303 ppm	7.2574 ppm	-0.0027 ppm
Concentration RSD	145.9 %	5.5 %	15.4 %	0.4 %	1.6 %	0.8 %	7.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.2970 ppm	0.0179 ppm	0.1708 ppm	110.6898 ppm	0.0012 ppm	0.0012 ppm	-0.0002 ppm
Concentration per Run 1	1.2921 ppm	0.0177 ppm	0.1702 ppm	114.2199 ppm	0.0014 ppm	0.0013 ppm	-0.0007 ppm
Concentration per Run 2	1.3030 ppm	0.0180 ppm	0.1710 ppm	106.9700 ppm	0.0013 ppm	0.0013 ppm	0.0006 ppm
Concentration per Run 3	1.2959 ppm	0.0179 ppm	0.1713 ppm	110.8794 ppm	0.0010 ppm	0.0010 ppm	-0.0005 ppm
Concentration RSD	0.4 %	0.6 %	0.3 %	3.3 %	17.5 %	15.0 %	380.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0004 ppm	2.9694 ppm	-0.0007 ppm	0.0376 ppm	0.0003 ppm	-0.0007 ppm	0.0011 ppm
Concentration per Run 1	-0.0013 ppm	2.9592 ppm	-0.0006 ppm	0.0371 ppm	0.0003 ppm	-0.0008 ppm	0.0011 ppm
Concentration per Run 2	0.0006 ppm	2.9824 ppm	-0.0008 ppm	0.0377 ppm	0.0002 ppm	0.0002 ppm	0.0011 ppm
Concentration per Run 3	-0.0004 ppm	2.9667 ppm	-0.0007 ppm	0.0379 ppm	0.0003 ppm	-0.0014 ppm	0.0011 ppm
Concentration RSD	259.1 %	0.4 %	18.2 %	1.2 %	20.5 %	122.4 %	1.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0212 ppm	100.8870 %	92.7262 %	88.4430 %	98.5222 %	81.0713 %	91.4452 %
Concentration per Run 1	0.0213 ppm	101.2324 %	92.7849 %	89.0312 %	99.8052 %	81.4281 %	91.5885 %
Concentration per Run 2	0.0208 ppm	100.9286 %	92.8334 %	87.9943 %	98.1765 %	80.6554 %	91.3840 %
Concentration per Run 3	0.0214 ppm	100.4999 %	92.5601 %	88.3035 %	97.5848 %	81.1304 %	91.3629 %
Concentration RSD	1.4 %	0.4 %	0.2 %	0.6 %	1.2 %	0.5 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCV
Analysis started at: 9/26/2024 6:35:36 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5082 ppm	0.5219 ppm	0.5061 ppm	0.5252 ppm	0.5253 ppm	0.5001 ppm	0.4863 ppm
Concentration per Run 1	0.5064 ppm	0.5150 ppm	0.5073 ppm	0.5267 ppm	0.5165 ppm	0.4930 ppm	0.4764 ppm
Concentration per Run 2	0.5091 ppm	0.5218 ppm	0.5059 ppm	0.5240 ppm	0.5266 ppm	0.5027 ppm	0.4909 ppm
Concentration per Run 3	0.5090 ppm	0.5289 ppm	0.5051 ppm	0.5247 ppm	0.5328 ppm	0.5047 ppm	0.4915 ppm
Recovery Percentage 1	101.631 %	104.377 %	101.221 %	105.035 %	105.059 %	100.027 %	97.253 %
Concentration RSD	0.3 %	1.3 %	0.2 %	0.3 %	1.6 %	1.3 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4861 ppm	0.4774 ppm	0.4826 ppm	0.5072 ppm	0.4892 ppm	5.5781 ppm	0.5570 ppm
Concentration per Run 1	0.4871 ppm	0.4778 ppm	0.4794 ppm	0.5114 ppm	0.4818 ppm	5.5984 ppm	0.5529 ppm
Concentration per Run 2	0.4859 ppm	0.4759 ppm	0.4821 ppm	0.5058 ppm	0.4899 ppm	5.5959 ppm	0.5577 ppm
Concentration per Run 3	0.4853 ppm	0.4784 ppm	0.4862 ppm	0.5044 ppm	0.4958 ppm	5.5399 ppm	0.5605 ppm
Recovery Percentage 1	97.220 %	95.476 %	96.511 %	101.440 %	97.833 %	111.561 %	111.410 %
Concentration RSD	0.2 %	0.3 %	0.7 %	0.7 %	1.4 %	0.6 %	0.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5018 ppm	0.4758 ppm	0.5065 ppm	10.8919 ppm	0.4733 ppm	0.4835 ppm	0.4958 ppm
Concentration per Run 1	0.5030 ppm	0.4686 ppm	0.5072 ppm	10.8038 ppm	0.4748 ppm	0.4853 ppm	0.4972 ppm
Concentration per Run 2	0.5032 ppm	0.4796 ppm	0.5072 ppm	10.9105 ppm	0.4725 ppm	0.4821 ppm	0.4942 ppm
Concentration per Run 3	0.4991 ppm	0.4791 ppm	0.5052 ppm	10.9615 ppm	0.4726 ppm	0.4830 ppm	0.4960 ppm
Recovery Percentage 1	100.353 %	95.152 %	101.304 %	108.919 %	94.662 %	96.695 %	99.164 %
Concentration RSD	0.5 %	1.3 %	0.2 %	0.7 %	0.3 %	0.3 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5199 ppm	5.4106 ppm	0.4996 ppm	0.4996 ppm	0.5018 ppm	0.5079 ppm	0.4899 ppm
Concentration per Run 1	0.5217 ppm	5.4386 ppm	0.4995 ppm	0.4916 ppm	0.5020 ppm	0.5104 ppm	0.4905 ppm
Concentration per Run 2	0.5183 ppm	5.3946 ppm	0.4996 ppm	0.5012 ppm	0.5010 ppm	0.5058 ppm	0.4879 ppm
Concentration per Run 3	0.5197 ppm	5.3985 ppm	0.4998 ppm	0.5061 ppm	0.5023 ppm	0.5073 ppm	0.4913 ppm
Recovery Percentage 1	103.978 %	103.059 %	99.928 %	99.928 %	100.351 %	101.572 %	97.979 %
Concentration RSD	0.3 %	0.5 %	0.0 %	1.5 %	0.1 %	0.5 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4847 ppm	100.3636 %	96.4325 %	92.9482 %	96.9193 %	89.0727 %	95.5162 %
Concentration per Run 1	0.4852 ppm	100.8173 %	96.4527 %	92.7444 %	98.4070 %	88.7739 %	95.4043 %
Concentration per Run 2	0.4852 ppm	99.8146 %	96.3127 %	93.1948 %	96.1558 %	89.3610 %	95.5417 %
Concentration per Run 3	0.4836 ppm	100.4589 %	96.5321 %	92.9054 %	96.1949 %	89.0833 %	95.6027 %
Recovery Percentage 1	96.936 %						
Concentration RSD	0.2 %	0.5 %	0.1 %	0.2 %	1.3 %	0.3 %	0.1 %

LabBook: WG1976586_09262024T4.imexp

Sample: CCB
Analysis started at: 9/26/2024 6:41:39 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0021 ppm	-0.0010 ppm	0.0017 ppm	-0.0001 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 1	0.0003 ppm	-0.0013 ppm	-0.0008 ppm	0.0017 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 2	0.0002 ppm	-0.0036 ppm	-0.0015 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	-0.0024 ppm
Concentration per Run 3	0.0001 ppm	-0.0014 ppm	-0.0007 ppm	0.0017 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm
Recovery Percentage 1	2.551 %	-2.105 %	-19.781 %	5.736 %	-0.505 %	0.207 %	-0.666 %
Concentration RSD	56.7 %	61.9 %	45.7 %	3.6 %	75.2 %	276.5 %	227.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0012 ppm	0.0056 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0011 ppm	-0.0120 ppm	-0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0011 ppm	0.0304 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0013 ppm	-0.0015 ppm	-0.0006 ppm
Recovery Percentage 1	0.626 %	-0.525 %	-0.111 %	3.047 %	2.394 %	0.225 %	-5.031 %
Concentration RSD	49.8 %	92.7 %	1,140.3 %	17.9 %	11.0 %	392.4 %	67.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0287 ppm	0.0000 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 1	-0.0010 ppm	-0.0001 ppm	0.0002 ppm	0.0267 ppm	-0.0001 ppm	-0.0010 ppm	-0.0003 ppm
Concentration per Run 2	0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0266 ppm	0.0000 ppm	-0.0005 ppm	-0.0005 ppm
Concentration per Run 3	-0.0005 ppm	-0.0002 ppm	0.0000 ppm	0.0328 ppm	0.0001 ppm	-0.0009 ppm	0.0002 ppm
Recovery Percentage 1	-0.230 %	-1.186 %	0.188 %	1.435 %	0.070 %	-8.165 %	-0.379 %
Concentration RSD	391.4 %	61.4 %	113.5 %	12.4 %	548.5 %	29.7 %	198.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0003 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 1	0.0016 ppm	0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 2	-0.0006 ppm	0.0003 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	-0.0019 ppm	0.0013 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm	-0.0010 ppm	0.0000 ppm
Recovery Percentage 1	-2.995 %	0.142 %	-0.016 %	0.400 %	0.869 %	-2.809 %	-0.655 %
Concentration RSD	600.2 %	71.9 %	4,662.6 %	63.5 %	117.8 %	79.9 %	105.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	100.8470 %	98.0167 %	94.4578 %	97.9231 %	94.9941 %	95.9694 %
Concentration per Run 1	0.0000 ppm	102.7113 %	98.1168 %	94.7201 %	101.2283 %	94.9032 %	96.1163 %
Concentration per Run 2	0.0000 ppm	100.4930 %	98.3349 %	94.5000 %	97.2796 %	95.0320 %	95.9452 %
Concentration per Run 3	0.0000 ppm	99.3368 %	97.5985 %	94.1532 %	95.2613 %	95.0471 %	95.8466 %
Recovery Percentage 1	0.285 %						
Concentration RSD	121.2 %	1.7 %	0.4 %	0.3 %	3.1 %	0.1 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCV
Analysis started at: 9/26/2024 6:57:26 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5090 ppm	0.5192 ppm	0.5058 ppm	0.5259 ppm	0.5215 ppm	0.4953 ppm	0.4849 ppm
Concentration per Run 1	0.5074 ppm	0.5027 ppm	0.5068 ppm	0.5253 ppm	0.5035 ppm	0.4799 ppm	0.4711 ppm
Concentration per Run 2	0.5092 ppm	0.5295 ppm	0.5053 ppm	0.5279 ppm	0.5302 ppm	0.5021 ppm	0.4935 ppm
Concentration per Run 3	0.5104 ppm	0.5254 ppm	0.5054 ppm	0.5246 ppm	0.5309 ppm	0.5040 ppm	0.4899 ppm
Recovery Percentage 1	101.805 %	103.839 %	101.170 %	105.186 %	104.305 %	99.060 %	96.972 %
Concentration RSD	0.3 %	2.8 %	0.2 %	0.3 %	3.0 %	2.7 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4915 ppm	0.4753 ppm	0.4832 ppm	0.5065 ppm	0.4828 ppm	5.4856 ppm	0.5461 ppm
Concentration per Run 1	0.4915 ppm	0.4744 ppm	0.4790 ppm	0.5086 ppm	0.4686 ppm	5.4049 ppm	0.5236 ppm
Concentration per Run 2	0.4911 ppm	0.4754 ppm	0.4834 ppm	0.5077 ppm	0.4883 ppm	5.5375 ppm	0.5590 ppm
Concentration per Run 3	0.4920 ppm	0.4761 ppm	0.4871 ppm	0.5031 ppm	0.4913 ppm	5.5146 ppm	0.5558 ppm
Recovery Percentage 1	98.307 %	95.062 %	96.636 %	101.292 %	96.551 %	109.713 %	109.225 %
Concentration RSD	0.1 %	0.2 %	0.8 %	0.6 %	2.6 %	1.3 %	3.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5084 ppm	0.4720 ppm	0.5093 ppm	10.6984 ppm	0.4652 ppm	0.4770 ppm	0.4930 ppm
Concentration per Run 1	0.5095 ppm	0.4588 ppm	0.5100 ppm	10.2718 ppm	0.4653 ppm	0.4769 ppm	0.4921 ppm
Concentration per Run 2	0.5074 ppm	0.4762 ppm	0.5089 ppm	10.9306 ppm	0.4650 ppm	0.4768 ppm	0.4938 ppm
Concentration per Run 3	0.5081 ppm	0.4809 ppm	0.5089 ppm	10.8928 ppm	0.4654 ppm	0.4772 ppm	0.4931 ppm
Recovery Percentage 1	101.672 %	94.394 %	101.853 %	106.984 %	93.049 %	95.394 %	98.596 %
Concentration RSD	0.2 %	2.5 %	0.1 %	3.5 %	0.0 %	0.0 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5126 ppm	5.3015 ppm	0.5034 ppm	0.4957 ppm	0.5015 ppm	0.4988 ppm	0.4912 ppm
Concentration per Run 1	0.5112 ppm	5.2969 ppm	0.5043 ppm	0.4794 ppm	0.5007 ppm	0.4989 ppm	0.4899 ppm
Concentration per Run 2	0.5161 ppm	5.3081 ppm	0.5049 ppm	0.5033 ppm	0.5027 ppm	0.4998 ppm	0.4921 ppm
Concentration per Run 3	0.5105 ppm	5.2995 ppm	0.5012 ppm	0.5044 ppm	0.5011 ppm	0.4976 ppm	0.4915 ppm
Recovery Percentage 1	102.522 %	100.981 %	100.687 %	99.144 %	100.301 %	99.754 %	98.234 %
Concentration RSD	0.6 %	0.1 %	0.4 %	2.8 %	0.2 %	0.2 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4911 ppm	101.1350 %	97.9029 %	93.9767 %	98.2970 %	91.0353 %	96.6028 %
Concentration per Run 1	0.4911 ppm	102.2892 %	97.8538 %	94.3939 %	101.5323 %	91.5521 %	96.6328 %
Concentration per Run 2	0.4901 ppm	100.7311 %	97.9112 %	93.6710 %	96.9817 %	90.8459 %	96.4070 %
Concentration per Run 3	0.4921 ppm	100.3845 %	97.9435 %	93.8651 %	96.3769 %	90.7080 %	96.7685 %
Recovery Percentage 1	98.225 %						
Concentration RSD	0.2 %	1.0 %	0.0 %	0.4 %	2.9 %	0.5 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCB
Analysis started at: 9/26/2024 7:03:30 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0017 ppm	-0.0007 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 1	0.0002 ppm	-0.0033 ppm	0.0000 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 2	0.0001 ppm	-0.0032 ppm	-0.0011 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	-0.0002 ppm	0.0014 ppm	-0.0011 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm
Recovery Percentage 1	1.034 %	-1.696 %	-14.349 %	4.839 %	-0.080 %	0.231 %	0.606 %
Concentration RSD	282.3 %	156.9 %	87.5 %	6.4 %	555.7 %	200.3 %	99.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0004 ppm	0.0038 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0007 ppm	0.0131 ppm	-0.0008 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0006 ppm	0.0005 ppm	0.0086 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0000 ppm	-0.0102 ppm	0.0000 ppm
Recovery Percentage 1	0.776 %	-0.499 %	-0.303 %	5.051 %	0.752 %	0.154 %	-4.910 %
Concentration RSD	37.2 %	68.1 %	111.5 %	20.5 %	99.6 %	321.3 %	86.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0011 ppm	0.0000 ppm	0.0002 ppm	0.0152 ppm	-0.0001 ppm	-0.0008 ppm	-0.0004 ppm
Concentration per Run 1	-0.0023 ppm	0.0000 ppm	0.0002 ppm	0.0139 ppm	0.0001 ppm	-0.0009 ppm	-0.0008 ppm
Concentration per Run 2	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0140 ppm	-0.0002 ppm	-0.0012 ppm	0.0002 ppm
Concentration per Run 3	-0.0007 ppm	0.0001 ppm	0.0002 ppm	0.0177 ppm	-0.0003 ppm	-0.0005 ppm	-0.0007 ppm
Recovery Percentage 1	-1.053 %	0.148 %	0.429 %	0.758 %	-0.533 %	-8.492 %	-0.833 %
Concentration RSD	104.5 %	305.9 %	14.7 %	14.2 %	148.5 %	41.5 %	125.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 1	0.0014 ppm	0.0004 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0015 ppm	-0.0001 ppm
Concentration per Run 2	-0.0009 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 3	-0.0007 ppm	0.0005 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	-0.0008 ppm	0.0000 ppm
Recovery Percentage 1	-0.681 %	0.042 %	-0.489 %	0.369 %	0.026 %	-5.428 %	-0.308 %
Concentration RSD	1,849.7 %	203.2 %	47.4 %	106.4 %	3,203.9 %	37.1 %	207.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	102.1763 %	99.2545 %	94.3835 %	95.6061 %	95.7073 %	94.0941 %
Concentration per Run 1	0.0000 ppm	103.3551 %	99.6832 %	94.7460 %	99.1997 %	95.5788 %	94.3598 %
Concentration per Run 2	0.0000 ppm	101.5680 %	99.0568 %	94.4959 %	94.2038 %	95.9231 %	94.0363 %
Concentration per Run 3	-0.0001 ppm	101.6059 %	99.0234 %	93.9087 %	93.4147 %	95.6200 %	93.8861 %
Recovery Percentage 1	-0.285 %						
Concentration RSD	511.3 %	1.0 %	0.4 %	0.5 %	3.3 %	0.2 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453908-01 WG1975964
Analysis started at: 9/26/2024 7:10:00 PM
Comments <Comment>
Rack: 1
Vial: 44

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0047 ppm	0.0003 ppm	0.0054 ppm	0.0051 ppm	0.0000 ppm	12.2262 ppm
Concentration per Run 1	0.0000 ppm	0.0052 ppm	-0.0004 ppm	0.0058 ppm	0.0051 ppm	0.0000 ppm	12.0928 ppm
Concentration per Run 2	0.0002 ppm	0.0028 ppm	0.0008 ppm	0.0053 ppm	0.0051 ppm	0.0000 ppm	12.2118 ppm
Concentration per Run 3	0.0004 ppm	0.0062 ppm	0.0004 ppm	0.0053 ppm	0.0052 ppm	0.0000 ppm	12.3740 ppm
Concentration RSD	91.5 %	36.1 %	239.1 %	5.0 %	1.6 %	48.3 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0025 ppm	0.3077 ppm	1.2219 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0025 ppm	0.3010 ppm	1.2070 ppm	0.0002 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0023 ppm	0.3086 ppm	1.1999 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0025 ppm	0.3136 ppm	1.2589 ppm	0.0002 ppm
Concentration RSD	35.7 %	1,007.9 %	147.5 %	4.5 %	2.1 %	2.6 %	263.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.3585 ppm	0.1949 ppm	0.0002 ppm	6.4301 ppm	0.0013 ppm	-0.0019 ppm	-0.0003 ppm
Concentration per Run 1	3.3612 ppm	0.1920 ppm	0.0000 ppm	6.2922 ppm	0.0015 ppm	-0.0020 ppm	-0.0001 ppm
Concentration per Run 2	3.3428 ppm	0.1956 ppm	0.0002 ppm	6.4119 ppm	0.0011 ppm	-0.0017 ppm	-0.0006 ppm
Concentration per Run 3	3.3715 ppm	0.1972 ppm	0.0003 ppm	6.5863 ppm	0.0014 ppm	-0.0020 ppm	-0.0002 ppm
Concentration RSD	0.4 %	1.4 %	96.6 %	2.3 %	17.9 %	8.9 %	93.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	4.5201 ppm	-0.0007 ppm	0.0491 ppm	0.0001 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 1	0.0013 ppm	4.4999 ppm	-0.0006 ppm	0.0484 ppm	0.0001 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 2	0.0008 ppm	4.5306 ppm	-0.0007 ppm	0.0493 ppm	0.0000 ppm	-0.0015 ppm	0.0002 ppm
Concentration per Run 3	0.0010 ppm	4.5298 ppm	-0.0008 ppm	0.0498 ppm	0.0001 ppm	-0.0006 ppm	0.0001 ppm
Concentration RSD	26.8 %	0.4 %	12.4 %	1.5 %	42.2 %	62.8 %	26.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0024 ppm	103.8084 %	98.6172 %	92.5543 %	97.7812 %	92.2400 %	94.0544 %
Concentration per Run 1	0.0024 ppm	104.8189 %	98.5035 %	92.9480 %	99.4558 %	92.6483 %	94.3684 %
Concentration per Run 2	0.0024 ppm	103.4918 %	98.7260 %	92.9958 %	97.7240 %	92.4736 %	93.7458 %
Concentration per Run 3	0.0024 ppm	103.1144 %	98.6221 %	91.7192 %	96.1636 %	91.5981 %	94.0492 %
Concentration RSD	1.5 %	0.9 %	0.1 %	0.8 %	1.7 %	0.6 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453913-01 WG1975964
Analysis started at: 9/26/2024 7:16:20 PM
Comments <Comment>
Rack: 1
Vial: 45

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0031 ppm	0.0021 ppm	0.0078 ppm	0.0068 ppm	0.0000 ppm	17.9238 ppm
Concentration per Run 1	0.0001 ppm	0.0060 ppm	0.0017 ppm	0.0076 ppm	0.0066 ppm	0.0000 ppm	17.6609 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0023 ppm	0.0080 ppm	0.0069 ppm	0.0000 ppm	18.1392 ppm
Concentration per Run 3	0.0002 ppm	0.0031 ppm	0.0024 ppm	0.0077 ppm	0.0068 ppm	0.0000 ppm	17.9712 ppm
Concentration RSD	60.7 %	96.1 %	16.3 %	3.0 %	2.2 %	1,094.2 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0014 ppm	0.3401 ppm	1.7408 ppm	0.0002 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0015 ppm	0.3317 ppm	1.7490 ppm	0.0001 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0014 ppm	0.3449 ppm	1.7145 ppm	0.0004 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0014 ppm	0.3438 ppm	1.7588 ppm	0.0003 ppm
Concentration RSD	20.9 %	81.6 %	416.5 %	4.5 %	2.2 %	1.3 %	63.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.2744 ppm	0.3675 ppm	0.0002 ppm	8.0165 ppm	0.0005 ppm	-0.0022 ppm	-0.0002 ppm
Concentration per Run 1	4.2884 ppm	0.3619 ppm	0.0002 ppm	7.9544 ppm	0.0008 ppm	-0.0022 ppm	-0.0002 ppm
Concentration per Run 2	4.2820 ppm	0.3726 ppm	0.0002 ppm	8.0105 ppm	0.0003 ppm	-0.0024 ppm	-0.0002 ppm
Concentration per Run 3	4.2527 ppm	0.3678 ppm	0.0003 ppm	8.0848 ppm	0.0004 ppm	-0.0020 ppm	-0.0002 ppm
Concentration RSD	0.4 %	1.5 %	21.9 %	0.8 %	58.8 %	8.3 %	19.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0008 ppm	4.8686 ppm	-0.0010 ppm	0.0689 ppm	0.0000 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 1	0.0011 ppm	4.8513 ppm	-0.0008 ppm	0.0678 ppm	0.0001 ppm	-0.0008 ppm	0.0004 ppm
Concentration per Run 2	-0.0006 ppm	4.8813 ppm	-0.0008 ppm	0.0692 ppm	0.0000 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 3	0.0018 ppm	4.8731 ppm	-0.0013 ppm	0.0696 ppm	0.0000 ppm	-0.0006 ppm	0.0002 ppm
Concentration RSD	161.0 %	0.3 %	27.0 %	1.4 %	262.0 %	48.6 %	49.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0010 ppm	104.0709 %	98.0367 %	91.6688 %	98.1023 %	90.5480 %	93.3108 %
Concentration per Run 1	0.0009 ppm	105.4942 %	98.1730 %	91.7992 %	100.6025 %	90.8827 %	93.9071 %
Concentration per Run 2	0.0011 ppm	103.0590 %	98.2038 %	91.4987 %	96.5219 %	90.2465 %	92.5037 %
Concentration per Run 3	0.0011 ppm	103.6594 %	97.7333 %	91.7086 %	97.1826 %	90.5148 %	93.5216 %
Concentration RSD	7.9 %	1.2 %	0.3 %	0.2 %	2.2 %	0.4 %	0.8 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453916-01 WG1975964
Analysis started at: 9/26/2024 7:22:39 PM
Comments <Comment>
Rack: 1
Vial: 46

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0278 ppm	-0.0005 ppm	0.0033 ppm	0.0034 ppm	0.0000 ppm	4.0416 ppm
Concentration per Run 1	0.0003 ppm	0.0273 ppm	-0.0005 ppm	0.0034 ppm	0.0034 ppm	0.0000 ppm	4.0866 ppm
Concentration per Run 2	0.0002 ppm	0.0272 ppm	-0.0005 ppm	0.0034 ppm	0.0033 ppm	0.0000 ppm	4.0060 ppm
Concentration per Run 3	0.0002 ppm	0.0288 ppm	-0.0005 ppm	0.0031 ppm	0.0033 ppm	0.0000 ppm	4.0323 ppm
Concentration RSD	37.1 %	3.2 %	5.5 %	5.2 %	2.1 %	123.9 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0042 ppm	0.0385 ppm	0.4743 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0042 ppm	0.0398 ppm	0.4582 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0040 ppm	0.0376 ppm	0.4831 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0044 ppm	0.0380 ppm	0.4816 ppm	-0.0007 ppm
Concentration RSD	167.3 %	56.9 %	119.6 %	5.5 %	3.0 %	2.9 %	38.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.7952 ppm	0.0075 ppm	0.0001 ppm	4.3539 ppm	0.0003 ppm	-0.0012 ppm	-0.0003 ppm
Concentration per Run 1	0.7904 ppm	0.0076 ppm	0.0000 ppm	4.2889 ppm	0.0004 ppm	-0.0011 ppm	-0.0003 ppm
Concentration per Run 2	0.8009 ppm	0.0077 ppm	0.0001 ppm	4.3530 ppm	0.0001 ppm	-0.0016 ppm	-0.0001 ppm
Concentration per Run 3	0.7943 ppm	0.0073 ppm	0.0001 ppm	4.4198 ppm	0.0003 ppm	-0.0011 ppm	-0.0005 ppm
Concentration RSD	0.7 %	2.8 %	111.6 %	1.5 %	68.2 %	21.1 %	59.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0009 ppm	1.4391 ppm	-0.0009 ppm	0.0173 ppm	0.0004 ppm	-0.0011 ppm	-0.0001 ppm
Concentration per Run 1	0.0005 ppm	1.4397 ppm	-0.0007 ppm	0.0172 ppm	0.0004 ppm	-0.0017 ppm	-0.0004 ppm
Concentration per Run 2	-0.0003 ppm	1.4392 ppm	-0.0009 ppm	0.0173 ppm	0.0005 ppm	-0.0011 ppm	0.0001 ppm
Concentration per Run 3	0.0026 ppm	1.4384 ppm	-0.0011 ppm	0.0173 ppm	0.0004 ppm	-0.0006 ppm	-0.0001 ppm
Concentration RSD	155.5 %	0.0 %	22.3 %	0.3 %	18.4 %	49.1 %	175.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0017 ppm	102.5785 %	98.4507 %	92.5413 %	96.4292 %	93.6076 %	93.9939 %
Concentration per Run 1	0.0017 ppm	101.7208 %	98.5026 %	92.4198 %	96.5539 %	93.6675 %	93.6907 %
Concentration per Run 2	0.0017 ppm	103.0527 %	97.9596 %	92.7519 %	96.7421 %	93.6753 %	94.0443 %
Concentration per Run 3	0.0016 ppm	102.9619 %	98.8899 %	92.4522 %	95.9915 %	93.4800 %	94.2466 %
Concentration RSD	1.7 %	0.7 %	0.5 %	0.2 %	0.4 %	0.1 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453918-01 WG1975964
Analysis started at: 9/26/2024 7:29:00 PM
Comments <Comment>
Rack: 1
Vial: 47

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0043 ppm	-0.0004 ppm	0.0682 ppm	0.0631 ppm	0.0000 ppm	73.6951 ppm
Concentration per Run 1	0.0001 ppm	0.0043 ppm	0.0001 ppm	0.0682 ppm	0.0618 ppm	0.0000 ppm	72.4871 ppm
Concentration per Run 2	0.0001 ppm	0.0036 ppm	-0.0002 ppm	0.0685 ppm	0.0636 ppm	0.0000 ppm	74.4921 ppm
Concentration per Run 3	0.0003 ppm	0.0051 ppm	-0.0009 ppm	0.0681 ppm	0.0641 ppm	-0.0001 ppm	74.1061 ppm
Concentration RSD	51.4 %	16.3 %	138.8 %	0.3 %	1.9 %	68.7 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0152 ppm	0.0060 ppm	9.8899 ppm	-0.0047 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0006 ppm	0.0155 ppm	0.0074 ppm	9.7640 ppm	-0.0048 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0150 ppm	0.0051 ppm	9.8448 ppm	-0.0047 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0010 ppm	0.0150 ppm	0.0056 ppm	10.0608 ppm	-0.0046 ppm
Concentration RSD	523.7 %	62.6 %	23.7 %	1.9 %	19.7 %	1.6 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.6279 ppm	0.0080 ppm	0.0017 ppm	196.7873 ppm	0.0092 ppm	-0.0019 ppm	0.0005 ppm
Concentration per Run 1	9.6745 ppm	0.0078 ppm	0.0018 ppm	189.4543 ppm	0.0093 ppm	-0.0020 ppm	0.0009 ppm
Concentration per Run 2	9.6093 ppm	0.0081 ppm	0.0016 ppm	195.4562 ppm	0.0091 ppm	-0.0018 ppm	0.0000 ppm
Concentration per Run 3	9.6000 ppm	0.0081 ppm	0.0018 ppm	205.4513 ppm	0.0092 ppm	-0.0018 ppm	0.0005 ppm
Concentration RSD	0.4 %	2.1 %	5.7 %	4.1 %	1.2 %	5.1 %	103.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0013 ppm	6.4889 ppm	-0.0009 ppm	0.3754 ppm	-0.0003 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0022 ppm	6.4648 ppm	-0.0011 ppm	0.3682 ppm	-0.0005 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 2	0.0006 ppm	6.5098 ppm	-0.0004 ppm	0.3777 ppm	-0.0003 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	0.0011 ppm	6.4921 ppm	-0.0011 ppm	0.3803 ppm	-0.0002 ppm	-0.0005 ppm	0.0000 ppm
Concentration RSD	59.7 %	0.3 %	46.3 %	1.7 %	42.1 %	726.5 %	115.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0530 ppm	99.2953 %	89.3968 %	84.0851 %	93.1201 %	73.4493 %	85.1584 %
Concentration per Run 1	0.0528 ppm	99.7964 %	89.1763 %	84.4124 %	95.2441 %	73.8215 %	84.9468 %
Concentration per Run 2	0.0530 ppm	98.4708 %	89.4555 %	83.7766 %	91.9436 %	73.1661 %	85.0902 %
Concentration per Run 3	0.0532 ppm	99.6188 %	89.5588 %	84.0664 %	92.1727 %	73.3604 %	85.4381 %
Concentration RSD	0.4 %	0.7 %	0.2 %	0.4 %	2.0 %	0.5 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453918-02 WG1975964
Analysis started at: 9/26/2024 7:35:29 PM
Comments <Comment>
Rack: 1
Vial: 48

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.5064 ppm	-0.0008 ppm	0.0736 ppm	0.0687 ppm	0.0000 ppm	72.3185 ppm
Concentration per Run 1	0.0004 ppm	0.4969 ppm	-0.0020 ppm	0.0737 ppm	0.0679 ppm	0.0000 ppm	71.0946 ppm
Concentration per Run 2	0.0002 ppm	0.5144 ppm	0.0011 ppm	0.0732 ppm	0.0692 ppm	0.0000 ppm	73.0762 ppm
Concentration per Run 3	0.0004 ppm	0.5078 ppm	-0.0014 ppm	0.0738 ppm	0.0690 ppm	0.0000 ppm	72.7847 ppm
Concentration RSD	30.3 %	1.7 %	214.0 %	0.4 %	1.0 %	30.4 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0003 ppm	0.0023 ppm	0.0033 ppm	0.0899 ppm	0.1761 ppm	9.9601 ppm	-0.0050 ppm
Concentration per Run 1	0.0003 ppm	0.0024 ppm	0.0034 ppm	0.0897 ppm	0.1741 ppm	9.7869 ppm	-0.0050 ppm
Concentration per Run 2	0.0003 ppm	0.0024 ppm	0.0033 ppm	0.0901 ppm	0.1774 ppm	10.1249 ppm	-0.0049 ppm
Concentration per Run 3	0.0002 ppm	0.0022 ppm	0.0033 ppm	0.0898 ppm	0.1767 ppm	9.9684 ppm	-0.0051 ppm
Concentration RSD	14.1 %	5.5 %	1.9 %	0.2 %	1.0 %	1.7 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.4223 ppm	0.1275 ppm	0.0016 ppm	195.9217 ppm	0.0131 ppm	-0.0014 ppm	0.0010 ppm
Concentration per Run 1	9.4320 ppm	0.1255 ppm	0.0016 ppm	186.0011 ppm	0.0132 ppm	-0.0015 ppm	0.0010 ppm
Concentration per Run 2	9.4111 ppm	0.1286 ppm	0.0017 ppm	201.6042 ppm	0.0131 ppm	-0.0007 ppm	0.0004 ppm
Concentration per Run 3	9.4237 ppm	0.1284 ppm	0.0017 ppm	200.1598 ppm	0.0130 ppm	-0.0019 ppm	0.0016 ppm
Concentration RSD	0.1 %	1.4 %	2.0 %	4.4 %	0.9 %	46.9 %	57.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0029 ppm	6.6746 ppm	-0.0008 ppm	0.3745 ppm	0.0068 ppm	-0.0002 ppm	0.0007 ppm
Concentration per Run 1	0.0038 ppm	6.6756 ppm	-0.0008 ppm	0.3671 ppm	0.0069 ppm	-0.0008 ppm	0.0007 ppm
Concentration per Run 2	0.0023 ppm	6.6693 ppm	-0.0006 ppm	0.3782 ppm	0.0069 ppm	0.0007 ppm	0.0006 ppm
Concentration per Run 3	0.0026 ppm	6.6790 ppm	-0.0009 ppm	0.3780 ppm	0.0068 ppm	-0.0006 ppm	0.0007 ppm
Concentration RSD	27.4 %	0.1 %	23.0 %	1.7 %	0.9 %	326.8 %	5.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0707 ppm	99.7512 %	90.0154 %	84.3892 %	93.5349 %	73.2339 %	85.6984 %
Concentration per Run 1	0.0711 ppm	100.3208 %	90.2165 %	84.5842 %	95.2168 %	73.4172 %	85.8378 %
Concentration per Run 2	0.0706 ppm	98.9339 %	90.0934 %	84.5486 %	92.7842 %	73.2486 %	85.4200 %
Concentration per Run 3	0.0706 ppm	99.9989 %	89.7362 %	84.0348 %	92.6037 %	73.0360 %	85.8375 %
Concentration RSD	0.4 %	0.7 %	0.3 %	0.4 %	1.6 %	0.3 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453921-01 WG1975964
Analysis started at: 9/26/2024 7:41:57 PM
Comments <Comment>
Rack: 1
Vial: 49

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0026 ppm	0.0013 ppm	0.0076 ppm	0.0066 ppm	0.0000 ppm	17.4141 ppm
Concentration per Run 1	0.0001 ppm	0.0042 ppm	0.0011 ppm	0.0076 ppm	0.0065 ppm	0.0000 ppm	17.1976 ppm
Concentration per Run 2	0.0003 ppm	0.0026 ppm	0.0016 ppm	0.0077 ppm	0.0065 ppm	0.0000 ppm	17.5106 ppm
Concentration per Run 3	0.0001 ppm	0.0010 ppm	0.0013 ppm	0.0075 ppm	0.0067 ppm	0.0000 ppm	17.5340 ppm
Concentration RSD	58.8 %	61.1 %	19.0 %	1.5 %	1.3 %	173.6 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0013 ppm	0.3071 ppm	1.6810 ppm	0.0005 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0014 ppm	0.3027 ppm	1.6555 ppm	0.0002 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0013 ppm	0.3097 ppm	1.6822 ppm	0.0005 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0013 ppm	0.3091 ppm	1.7053 ppm	0.0007 ppm
Concentration RSD	24.6 %	43.5 %	94.3 %	3.9 %	1.3 %	1.5 %	56.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.1448 ppm	0.3608 ppm	0.0002 ppm	7.6214 ppm	0.0005 ppm	-0.0017 ppm	0.0000 ppm
Concentration per Run 1	4.1396 ppm	0.3559 ppm	0.0003 ppm	7.5539 ppm	0.0006 ppm	-0.0017 ppm	0.0003 ppm
Concentration per Run 2	4.1463 ppm	0.3622 ppm	0.0002 ppm	7.5857 ppm	0.0003 ppm	-0.0015 ppm	0.0001 ppm
Concentration per Run 3	4.1484 ppm	0.3644 ppm	0.0001 ppm	7.7247 ppm	0.0004 ppm	-0.0020 ppm	-0.0004 ppm
Concentration RSD	0.1 %	1.2 %	43.3 %	1.2 %	37.1 %	12.3 %	4,107.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0011 ppm	4.7634 ppm	-0.0010 ppm	0.0664 ppm	-0.0001 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 1	0.0010 ppm	4.7478 ppm	-0.0007 ppm	0.0653 ppm	0.0000 ppm	-0.0015 ppm	0.0002 ppm
Concentration per Run 2	0.0013 ppm	4.7681 ppm	-0.0012 ppm	0.0667 ppm	-0.0002 ppm	-0.0015 ppm	0.0001 ppm
Concentration per Run 3	0.0010 ppm	4.7744 ppm	-0.0009 ppm	0.0672 ppm	-0.0001 ppm	0.0004 ppm	0.0002 ppm
Concentration RSD	16.2 %	0.3 %	29.1 %	1.5 %	64.9 %	122.4 %	24.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0007 ppm	102.9638 %	97.8585 %	91.7478 %	97.1300 %	90.2063 %	93.6817 %
Concentration per Run 1	0.0007 ppm	103.7515 %	97.9178 %	91.9175 %	98.6955 %	90.6380 %	93.6257 %
Concentration per Run 2	0.0006 ppm	102.0063 %	97.8116 %	92.0091 %	96.4270 %	90.1611 %	93.4998 %
Concentration per Run 3	0.0007 ppm	103.1336 %	97.8460 %	91.3169 %	96.2675 %	89.8197 %	93.9196 %
Concentration RSD	4.5 %	0.9 %	0.1 %	0.4 %	1.4 %	0.5 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453967-01 WG1975964
Analysis started at: 9/26/2024 7:48:16 PM
Comments <Comment>
Rack: 1
Vial: 50

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	1.0974 ppm	-0.0013 ppm	0.0064 ppm	0.0052 ppm	0.0000 ppm	3.9931 ppm
Concentration per Run 1	0.0001 ppm	1.0729 ppm	-0.0006 ppm	0.0065 ppm	0.0051 ppm	0.0000 ppm	3.9210 ppm
Concentration per Run 2	0.0003 ppm	1.1127 ppm	-0.0013 ppm	0.0064 ppm	0.0052 ppm	0.0000 ppm	4.0012 ppm
Concentration per Run 3	0.0003 ppm	1.1066 ppm	-0.0019 ppm	0.0064 ppm	0.0052 ppm	0.0000 ppm	4.0570 ppm
Concentration RSD	53.4 %	2.0 %	51.6 %	0.2 %	1.8 %	45.4 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0032 ppm	0.0823 ppm	0.8621 ppm	-0.0012 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0032 ppm	0.0811 ppm	0.8236 ppm	-0.0013 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0032 ppm	0.0829 ppm	0.8930 ppm	-0.0013 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0032 ppm	0.0829 ppm	0.8698 ppm	-0.0010 ppm
Concentration RSD	51.8 %	66.4 %	212.6 %	1.1 %	1.3 %	4.1 %	18.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.0369 ppm	0.1185 ppm	0.0000 ppm	27.7275 ppm	0.0003 ppm	-0.0007 ppm	-0.0007 ppm
Concentration per Run 1	1.0387 ppm	0.1164 ppm	0.0000 ppm	27.0645 ppm	0.0004 ppm	-0.0010 ppm	-0.0008 ppm
Concentration per Run 2	1.0328 ppm	0.1189 ppm	0.0000 ppm	28.5058 ppm	0.0000 ppm	-0.0004 ppm	-0.0008 ppm
Concentration per Run 3	1.0392 ppm	0.1202 ppm	0.0001 ppm	27.6121 ppm	0.0003 ppm	-0.0008 ppm	-0.0004 ppm
Concentration RSD	0.3 %	1.6 %	231.5 %	2.6 %	83.0 %	41.6 %	34.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0008 ppm	0.6844 ppm	-0.0008 ppm	0.0242 ppm	0.0001 ppm	-0.0010 ppm	0.0002 ppm
Concentration per Run 1	0.0010 ppm	0.6837 ppm	-0.0006 ppm	0.0237 ppm	0.0001 ppm	-0.0014 ppm	0.0003 ppm
Concentration per Run 2	0.0001 ppm	0.6843 ppm	-0.0010 ppm	0.0244 ppm	0.0002 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 3	0.0014 ppm	0.6853 ppm	-0.0008 ppm	0.0244 ppm	0.0001 ppm	-0.0013 ppm	0.0001 ppm
Concentration RSD	80.0 %	0.1 %	25.6 %	1.9 %	27.7 %	51.2 %	46.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0020 ppm	103.1262 %	97.2138 %	91.3419 %	97.7133 %	89.3915 %	93.1349 %
Concentration per Run 1	0.0021 ppm	104.5701 %	97.2859 %	91.7952 %	99.8619 %	89.7073 %	93.3171 %
Concentration per Run 2	0.0020 ppm	103.3955 %	97.2232 %	91.2093 %	97.6538 %	89.2641 %	93.2021 %
Concentration per Run 3	0.0020 ppm	101.4130 %	97.1323 %	91.0213 %	95.6241 %	89.2031 %	92.8854 %
Concentration RSD	3.5 %	1.5 %	0.1 %	0.4 %	2.2 %	0.3 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453967-02 WG1975964
Analysis started at: 9/26/2024 7:54:35 PM
Comments <Comment>
Rack: 1
Vial: 51

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0201 ppm	-0.0003 ppm	0.0061 ppm	0.0048 ppm	0.0000 ppm	4.0458 ppm
Concentration per Run 1	0.0004 ppm	0.0201 ppm	-0.0011 ppm	0.0062 ppm	0.0048 ppm	0.0000 ppm	4.0000 ppm
Concentration per Run 2	0.0003 ppm	0.0221 ppm	-0.0003 ppm	0.0061 ppm	0.0049 ppm	0.0000 ppm	4.0762 ppm
Concentration per Run 3	0.0001 ppm	0.0183 ppm	0.0003 ppm	0.0061 ppm	0.0048 ppm	0.0000 ppm	4.0614 ppm
Concentration RSD	48.4 %	9.6 %	196.6 %	0.9 %	0.9 %	695.1 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0223 ppm	0.0812 ppm	0.8407 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0222 ppm	0.0796 ppm	0.8319 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0221 ppm	0.0822 ppm	0.8343 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0224 ppm	0.0817 ppm	0.8559 ppm	-0.0004 ppm
Concentration RSD	290.6 %	18.7 %	14.3 %	0.8 %	1.7 %	1.6 %	62.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.0594 ppm	0.0772 ppm	0.0001 ppm	17.1884 ppm	0.0001 ppm	0.0011 ppm	-0.0009 ppm
Concentration per Run 1	1.0555 ppm	0.0762 ppm	0.0001 ppm	16.7764 ppm	0.0002 ppm	0.0011 ppm	-0.0015 ppm
Concentration per Run 2	1.0567 ppm	0.0780 ppm	0.0000 ppm	17.2294 ppm	-0.0001 ppm	0.0010 ppm	-0.0004 ppm
Concentration per Run 3	1.0659 ppm	0.0775 ppm	0.0001 ppm	17.5592 ppm	0.0001 ppm	0.0011 ppm	-0.0008 ppm
Concentration RSD	0.5 %	1.2 %	46.9 %	2.3 %	211.4 %	4.4 %	63.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	0.6566 ppm	-0.0007 ppm	0.0243 ppm	0.0002 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 1	-0.0001 ppm	0.6564 ppm	-0.0007 ppm	0.0239 ppm	0.0002 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 2	-0.0005 ppm	0.6575 ppm	-0.0008 ppm	0.0245 ppm	0.0003 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 3	-0.0012 ppm	0.6560 ppm	-0.0005 ppm	0.0246 ppm	0.0003 ppm	-0.0009 ppm	-0.0001 ppm
Concentration RSD	93.0 %	0.1 %	20.4 %	1.4 %	16.3 %	36.2 %	105.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0247 ppm	103.2309 %	97.6423 %	91.2026 %	96.7342 %	91.1637 %	93.3413 %
Concentration per Run 1	0.0245 ppm	104.2137 %	97.6556 %	90.8327 %	98.3174 %	91.0930 %	93.3895 %
Concentration per Run 2	0.0249 ppm	102.2921 %	97.7811 %	91.4925 %	95.6619 %	91.6166 %	93.5437 %
Concentration per Run 3	0.0247 ppm	103.1869 %	97.4900 %	91.2828 %	96.2232 %	90.7815 %	93.0907 %
Concentration RSD	0.9 %	0.9 %	0.1 %	0.4 %	1.4 %	0.5 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453979-01 WG1975964
Analysis started at: 9/26/2024 8:00:54 PM
Comments <Comment>
Rack: 1
Vial: 52

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0016 ppm	-0.0009 ppm	0.9416 ppm	0.0168 ppm	-0.0001 ppm	101.8706 ppm
Concentration per Run 1	0.0002 ppm	0.0010 ppm	-0.0001 ppm	0.9393 ppm	0.0165 ppm	-0.0001 ppm	100.2081 ppm
Concentration per Run 2	0.0005 ppm	0.0043 ppm	-0.0013 ppm	0.9447 ppm	0.0168 ppm	-0.0001 ppm	101.8636 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	-0.0012 ppm	0.9410 ppm	0.0170 ppm	-0.0001 ppm	103.5401 ppm
Concentration RSD	59.2 %	155.9 %	74.0 %	0.3 %	1.6 %	10.4 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0009 ppm	0.0005 ppm	0.0002 ppm	0.0092 ppm	0.0978 ppm	6.6769 ppm	-0.0104 ppm
Concentration per Run 1	-0.0009 ppm	0.0005 ppm	0.0002 ppm	0.0092 ppm	0.0967 ppm	6.5674 ppm	-0.0112 ppm
Concentration per Run 2	-0.0009 ppm	0.0005 ppm	0.0003 ppm	0.0091 ppm	0.0964 ppm	6.7148 ppm	-0.0102 ppm
Concentration per Run 3	-0.0009 ppm	0.0006 ppm	0.0000 ppm	0.0092 ppm	0.1002 ppm	6.7485 ppm	-0.0099 ppm
Concentration RSD	1.0 %	11.0 %	65.4 %	0.7 %	2.2 %	1.4 %	6.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	21.4149 ppm	0.0547 ppm	0.0068 ppm	667.0533 [SIC LDR]	0.0004 ppm	-0.0012 ppm	0.0004 ppm
Concentration per Run 1	21.3653 ppm	0.0538 ppm	0.0070 ppm	675.9907 ppm	0.0004 ppm	-0.0012 ppm	0.0008 ppm
Concentration per Run 2	21.4279 ppm	0.0547 ppm	0.0067 ppm	672.6805 ppm	0.0005 ppm	-0.0010 ppm	0.0008 ppm
Concentration per Run 3	21.4515 ppm	0.0558 ppm	0.0068 ppm	652.4888 ppm	0.0003 ppm	-0.0014 ppm	-0.0005 ppm
Concentration RSD	0.2 %	1.9 %	2.1 %	1.9 %	19.2 %	19.4 %	200.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	0.5644 ppm	-0.0009 ppm	0.1913 ppm	-0.0008 ppm	-0.0002 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.5634 ppm	-0.0012 ppm	0.1881 ppm	-0.0004 ppm	-0.0004 ppm	-0.0005 ppm
Concentration per Run 2	0.0009 ppm	0.5642 ppm	-0.0008 ppm	0.1921 ppm	-0.0009 ppm	-0.0006 ppm	-0.0004 ppm
Concentration per Run 3	0.0004 ppm	0.5656 ppm	-0.0008 ppm	0.1936 ppm	-0.0009 ppm	0.0005 ppm	-0.0005 ppm
Concentration RSD	103.5 %	0.2 %	21.8 %	1.5 %	35.8 %	348.8 %	18.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0016 ppm	96.8430 %	82.7725 %	78.0842 %	90.8662 %	62.1035 %	78.3701 %
Concentration per Run 1	0.0016 ppm	97.7947 %	82.7992 %	78.4183 %	92.9593 %	62.2970 %	78.5010 %
Concentration per Run 2	0.0015 ppm	96.5187 %	82.6389 %	77.7378 %	90.6438 %	61.9148 %	78.3069 %
Concentration per Run 3	0.0018 ppm	96.2156 %	82.8795 %	78.0964 %	88.9956 %	62.0986 %	78.3025 %
Concentration RSD	7.9 %	0.9 %	0.1 %	0.4 %	2.2 %	0.3 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453979-02 WG1975964
Analysis started at: 9/26/2024 8:07:21 PM
Comments <Comment>
Rack: 1
Vial: 53

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0383 ppm	-0.0016 ppm	0.3510 ppm	0.0611 ppm	-0.0001 ppm	115.3679 ppm
Concentration per Run 1	0.0001 ppm	0.0354 ppm	-0.0021 ppm	0.3508 ppm	0.0599 ppm	-0.0001 ppm	113.9529 ppm
Concentration per Run 2	0.0001 ppm	0.0404 ppm	-0.0021 ppm	0.3509 ppm	0.0614 ppm	-0.0001 ppm	115.8469 ppm
Concentration per Run 3	0.0001 ppm	0.0390 ppm	-0.0005 ppm	0.3513 ppm	0.0619 ppm	-0.0001 ppm	116.3039 ppm
Concentration RSD	30.0 %	6.8 %	58.4 %	0.1 %	1.7 %	29.6 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0010 ppm	0.0002 ppm	0.0003 ppm	0.0170 ppm	0.1202 ppm	2.9389 ppm	-0.0020 ppm
Concentration per Run 1	-0.0010 ppm	0.0001 ppm	0.0005 ppm	0.0171 ppm	0.1186 ppm	2.8868 ppm	-0.0022 ppm
Concentration per Run 2	-0.0010 ppm	0.0000 ppm	0.0001 ppm	0.0173 ppm	0.1202 ppm	2.9582 ppm	-0.0019 ppm
Concentration per Run 3	-0.0009 ppm	0.0003 ppm	0.0004 ppm	0.0167 ppm	0.1217 ppm	2.9719 ppm	-0.0019 ppm
Concentration RSD	4.1 %	99.9 %	62.1 %	1.8 %	1.3 %	1.6 %	8.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	24.1138 ppm	0.0148 ppm	0.0018 ppm	205.8520 ppm	0.0002 ppm	-0.0018 ppm	0.0018 ppm
Concentration per Run 1	24.1276 ppm	0.0146 ppm	0.0019 ppm	204.9687 ppm	0.0001 ppm	-0.0012 ppm	0.0012 ppm
Concentration per Run 2	24.1719 ppm	0.0148 ppm	0.0019 ppm	197.0619 ppm	-0.0001 ppm	-0.0020 ppm	0.0015 ppm
Concentration per Run 3	24.0420 ppm	0.0150 ppm	0.0017 ppm	215.5255 ppm	0.0007 ppm	-0.0021 ppm	0.0026 ppm
Concentration RSD	0.3 %	1.3 %	6.5 %	4.5 %	176.2 %	28.7 %	40.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0025 ppm	4.3456 ppm	-0.0005 ppm	0.2341 ppm	-0.0003 ppm	-0.0001 ppm	-0.0004 ppm
Concentration per Run 1	0.0028 ppm	4.3412 ppm	-0.0007 ppm	0.2301 ppm	-0.0003 ppm	-0.0001 ppm	-0.0004 ppm
Concentration per Run 2	0.0025 ppm	4.3550 ppm	-0.0005 ppm	0.2358 ppm	-0.0003 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 3	0.0024 ppm	4.3406 ppm	-0.0003 ppm	0.2364 ppm	-0.0003 ppm	-0.0001 ppm	-0.0005 ppm
Concentration RSD	8.4 %	0.2 %	41.1 %	1.5 %	11.9 %	72.7 %	19.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0106 ppm	98.4785 %	87.1571 %	80.4352 %	92.5094 %	69.9702 %	83.5606 %
Concentration per Run 1	0.0106 ppm	98.6791 %	87.2121 %	80.4205 %	93.9542 %	70.0305 %	83.5597 %
Concentration per Run 2	0.0106 ppm	98.5464 %	87.2601 %	80.3016 %	92.2289 %	69.7467 %	83.4601 %
Concentration per Run 3	0.0108 ppm	98.2100 %	86.9992 %	80.5834 %	91.3450 %	70.1333 %	83.6620 %
Concentration RSD	1.2 %	0.2 %	0.2 %	0.2 %	1.4 %	0.3 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCV
Analysis started at: 9/26/2024 8:13:48 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5149 ppm	0.5394 ppm	0.5109 ppm	0.5337 ppm	0.5424 ppm	0.5068 ppm	0.4912 ppm
Concentration per Run 1	0.5162 ppm	0.5300 ppm	0.5105 ppm	0.5352 ppm	0.5303 ppm	0.4954 ppm	0.4798 ppm
Concentration per Run 2	0.5101 ppm	0.5483 ppm	0.5107 ppm	0.5314 ppm	0.5491 ppm	0.5108 ppm	0.4969 ppm
Concentration per Run 3	0.5182 ppm	0.5399 ppm	0.5114 ppm	0.5344 ppm	0.5477 ppm	0.5143 ppm	0.4970 ppm
Recovery Percentage 1	102.971 %	107.880 %	102.172 %	106.735 %	108.470 %	101.367 %	98.249 %
Concentration RSD	0.8 %	1.7 %	0.1 %	0.4 %	1.9 %	2.0 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4872 ppm	0.4753 ppm	0.4826 ppm	0.5193 ppm	0.4965 ppm	5.4394 ppm	0.5729 ppm
Concentration per Run 1	0.4856 ppm	0.4756 ppm	0.4811 ppm	0.5225 ppm	0.4813 ppm	5.4438 ppm	0.5632 ppm
Concentration per Run 2	0.4879 ppm	0.4753 ppm	0.4778 ppm	0.5107 ppm	0.5012 ppm	5.4856 ppm	0.5862 ppm
Concentration per Run 3	0.4882 ppm	0.4749 ppm	0.4891 ppm	0.5246 ppm	0.5069 ppm	5.3887 ppm	0.5694 ppm
Recovery Percentage 1	97.443 %	95.056 %	96.527 %	103.850 %	99.297 %	108.788 %	114.589 %
Concentration RSD	0.3 %	0.1 %	1.2 %	1.4 %	2.7 %	0.9 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5106 ppm	0.4706 ppm	0.5109 ppm	11.1383 ppm	0.4660 ppm	0.4787 ppm	0.4989 ppm
Concentration per Run 1	0.5139 ppm	0.4613 ppm	0.5098 ppm	10.9305 ppm	0.4653 ppm	0.4792 ppm	0.5028 ppm
Concentration per Run 2	0.5052 ppm	0.4736 ppm	0.5116 ppm	11.3732 ppm	0.4665 ppm	0.4785 ppm	0.4961 ppm
Concentration per Run 3	0.5127 ppm	0.4770 ppm	0.5113 ppm	11.1112 ppm	0.4661 ppm	0.4785 ppm	0.4978 ppm
Recovery Percentage 1	102.115 %	94.128 %	102.177 %	111.383 %	93.193 %	95.746 %	99.781 %
Concentration RSD	0.9 %	1.7 %	0.2 %	2.0 %	0.1 %	0.1 %	0.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5196 ppm	5.3715 ppm	0.5043 ppm	0.5121 ppm	0.5082 ppm	0.5042 ppm	0.4998 ppm
Concentration per Run 1	0.5196 ppm	5.3803 ppm	0.5046 ppm	0.5013 ppm	0.5088 ppm	0.5059 ppm	0.4997 ppm
Concentration per Run 2	0.5201 ppm	5.3623 ppm	0.5031 ppm	0.5183 ppm	0.5014 ppm	0.5030 ppm	0.4935 ppm
Concentration per Run 3	0.5192 ppm	5.3720 ppm	0.5050 ppm	0.5166 ppm	0.5145 ppm	0.5038 ppm	0.5063 ppm
Recovery Percentage 1	103.930 %	102.315 %	100.852 %	102.415 %	101.649 %	100.841 %	99.965 %
Concentration RSD	0.1 %	0.2 %	0.2 %	1.8 %	1.3 %	0.3 %	1.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4847 ppm	101.8895 %	97.5534 %	91.5441 %	95.5271 %	88.9213 %	93.2673 %
Concentration per Run 1	0.4823 ppm	103.1899 %	97.4038 %	91.3092 %	97.8948 %	88.7485 %	93.0038 %
Concentration per Run 2	0.4865 ppm	101.7998 %	98.1395 %	91.8838 %	94.7404 %	89.2483 %	94.2741 %
Concentration per Run 3	0.4852 ppm	100.6787 %	97.1169 %	91.4394 %	93.9460 %	88.7670 %	92.5239 %
Recovery Percentage 1	96.933 %						
Concentration RSD	0.4 %	1.2 %	0.5 %	0.3 %	2.2 %	0.3 %	1.0 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCB
Analysis started at: 9/26/2024 8:19:51 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0002 ppm	-0.0003 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	0.0002 ppm	0.0009 ppm	0.0002 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 2	0.0002 ppm	-0.0018 ppm	-0.0002 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 3	0.0002 ppm	0.0003 ppm	-0.0009 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0014 ppm
Recovery Percentage 1	2.571 %	-0.214 %	-6.109 %	4.935 %	-0.125 %	0.365 %	0.195 %
Concentration RSD	10.2 %	673.9 %	183.6 %	18.1 %	373.8 %	86.1 %	664.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0006 ppm	0.0014 ppm	0.0123 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0010 ppm	0.0130 ppm	-0.0007 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0017 ppm	0.0127 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0014 ppm	0.0110 ppm	-0.0004 ppm
Recovery Percentage 1	-0.179 %	-0.317 %	-0.537 %	5.715 %	2.764 %	0.490 %	-4.115 %
Concentration RSD	685.3 %	58.3 %	199.8 %	17.4 %	23.9 %	8.9 %	58.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0017 ppm	0.0001 ppm	0.0001 ppm	0.0313 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	-0.0017 ppm	0.0000 ppm	0.0002 ppm	0.0311 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm
Concentration per Run 2	-0.0016 ppm	0.0000 ppm	0.0002 ppm	0.0317 ppm	-0.0002 ppm	-0.0002 ppm	-0.0009 ppm
Concentration per Run 3	-0.0019 ppm	0.0002 ppm	0.0000 ppm	0.0310 ppm	0.0001 ppm	0.0001 ppm	-0.0003 ppm
Recovery Percentage 1	-1.731 %	0.642 %	0.232 %	1.563 %	-0.102 %	-0.107 %	-0.301 %
Concentration RSD	8.8 %	142.0 %	69.7 %	1.1 %	708.3 %	1,470.9 %	529.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	-0.0013 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 1	0.0018 ppm	-0.0011 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 2	0.0009 ppm	-0.0014 ppm	-0.0003 ppm	0.0001 ppm	0.0001 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	0.0002 ppm	-0.0013 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	-0.0001 ppm
Recovery Percentage 1	9.649 %	-0.260 %	-0.125 %	0.599 %	-0.230 %	-2.586 %	-0.870 %
Concentration RSD	85.5 %	11.3 %	407.1 %	29.9 %	608.6 %	13.8 %	60.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	102.0239 %	98.6259 %	93.6495 %	95.1709 %	96.6308 %	93.9409 %
Concentration per Run 1	0.0002 ppm	103.2454 %	98.5853 %	93.5000 %	97.9818 %	96.3476 %	94.2227 %
Concentration per Run 2	0.0002 ppm	102.2287 %	98.4921 %	93.8601 %	94.6358 %	97.0755 %	93.9232 %
Concentration per Run 3	0.0003 ppm	100.5977 %	98.8002 %	93.5883 %	92.8952 %	96.4694 %	93.6769 %
Recovery Percentage 1	4.121 %						
Concentration RSD	21.2 %	1.3 %	0.2 %	0.2 %	2.7 %	0.4 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCV
Analysis started at: 9/26/2024 8:50:09 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5265 ppm	0.5355 ppm	0.5059 ppm	0.5288 ppm	0.5427 ppm	0.5073 ppm	0.5055 ppm
Concentration per Run 1	0.5253 ppm	0.5203 ppm	0.5075 ppm	0.5291 ppm	0.5283 ppm	0.4966 ppm	0.4985 ppm
Concentration per Run 2	0.5273 ppm	0.5424 ppm	0.5042 ppm	0.5276 ppm	0.5495 ppm	0.5120 ppm	0.5101 ppm
Concentration per Run 3	0.5270 ppm	0.5437 ppm	0.5058 ppm	0.5298 ppm	0.5502 ppm	0.5132 ppm	0.5078 ppm
Recovery Percentage 1	105.304 %	107.091 %	101.172 %	105.770 %	108.536 %	101.456 %	101.091 %
Concentration RSD	0.2 %	2.5 %	0.3 %	0.2 %	2.3 %	1.8 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4921 ppm	0.4731 ppm	0.4866 ppm	0.5217 ppm	0.4926 ppm	5.3258 ppm	0.5593 ppm
Concentration per Run 1	0.4916 ppm	0.4733 ppm	0.4875 ppm	0.5246 ppm	0.4807 ppm	5.1467 ppm	0.5358 ppm
Concentration per Run 2	0.4924 ppm	0.4718 ppm	0.4855 ppm	0.5167 ppm	0.4982 ppm	5.4301 ppm	0.5746 ppm
Concentration per Run 3	0.4923 ppm	0.4741 ppm	0.4867 ppm	0.5238 ppm	0.4988 ppm	5.4007 ppm	0.5674 ppm
Recovery Percentage 1	98.424 %	94.616 %	97.311 %	104.337 %	98.513 %	106.516 %	111.852 %
Concentration RSD	0.1 %	0.2 %	0.2 %	0.8 %	2.1 %	2.9 %	3.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5280 ppm	0.4762 ppm	0.5060 ppm	10.8459 ppm	0.4580 ppm	0.4725 ppm	0.4941 ppm
Concentration per Run 1	0.5252 ppm	0.4649 ppm	0.5083 ppm	10.4080 ppm	0.4578 ppm	0.4734 ppm	0.4950 ppm
Concentration per Run 2	0.5295 ppm	0.4818 ppm	0.5035 ppm	11.1342 ppm	0.4580 ppm	0.4717 ppm	0.4921 ppm
Concentration per Run 3	0.5292 ppm	0.4819 ppm	0.5062 ppm	10.9956 ppm	0.4583 ppm	0.4724 ppm	0.4952 ppm
Recovery Percentage 1	105.594 %	95.243 %	101.199 %	108.459 %	91.607 %	94.499 %	98.815 %
Concentration RSD	0.4 %	2.1 %	0.5 %	3.6 %	0.1 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5060 ppm	5.2561 ppm	0.5063 ppm	0.5125 ppm	0.5100 ppm	0.4938 ppm	0.5043 ppm
Concentration per Run 1	0.5068 ppm	5.2633 ppm	0.5070 ppm	0.4989 ppm	0.5121 ppm	0.4950 ppm	0.5067 ppm
Concentration per Run 2	0.5050 ppm	5.2377 ppm	0.5052 ppm	0.5182 ppm	0.5062 ppm	0.4927 ppm	0.5009 ppm
Concentration per Run 3	0.5064 ppm	5.2673 ppm	0.5066 ppm	0.5203 ppm	0.5117 ppm	0.4939 ppm	0.5053 ppm
Recovery Percentage 1	101.209 %	100.116 %	101.255 %	102.500 %	102.007 %	98.767 %	100.865 %
Concentration RSD	0.2 %	0.3 %	0.2 %	2.3 %	0.7 %	0.2 %	0.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4893 ppm	100.7106 %	98.4350 %	93.6358 %	95.3481 %	91.2786 %	93.9697 %
Concentration per Run 1	0.4890 ppm	101.5597 %	98.5806 %	93.3485 %	97.3567 %	91.1222 %	93.6664 %
Concentration per Run 2	0.4896 ppm	100.0297 %	97.7184 %	94.0730 %	94.2118 %	91.6768 %	94.2259 %
Concentration per Run 3	0.4892 ppm	100.5423 %	99.0060 %	93.4859 %	94.4759 %	91.0368 %	94.0168 %
Recovery Percentage 1	97.855 %						
Concentration RSD	0.1 %	0.8 %	0.7 %	0.4 %	1.8 %	0.4 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCB
Analysis started at: 9/26/2024 8:56:13 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0017 ppm	-0.0002 ppm	0.0010 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	0.0002 ppm	-0.0022 ppm	0.0004 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run 2	0.0001 ppm	-0.0011 ppm	-0.0013 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0017 ppm
Concentration per Run 3	0.0003 ppm	-0.0019 ppm	0.0004 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	-0.0017 ppm
Recovery Percentage 1	3.138 %	-1.722 %	-3.612 %	3.234 %	-0.619 %	0.151 %	-0.161 %
Concentration RSD	39.3 %	33.4 %	554.3 %	27.5 %	69.5 %	81.7 %	1,648.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0012 ppm	0.0084 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0008 ppm	0.0008 ppm	0.0193 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0016 ppm	0.0086 ppm	-0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0008 ppm	0.0012 ppm	-0.0026 ppm	-0.0002 ppm
Recovery Percentage 1	0.070 %	-0.076 %	-1.136 %	7.126 %	2.367 %	0.338 %	-3.950 %
Concentration RSD	1,559.7 %	308.5 %	75.7 %	11.1 %	34.4 %	129.9 %	64.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0109 ppm	0.0000 ppm	-0.0002 ppm	-0.0007 ppm
Concentration per Run 1	-0.0021 ppm	0.0001 ppm	0.0001 ppm	0.0104 ppm	0.0000 ppm	-0.0003 ppm	-0.0012 ppm
Concentration per Run 2	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0099 ppm	0.0001 ppm	-0.0002 ppm	-0.0009 ppm
Concentration per Run 3	0.0005 ppm	-0.0001 ppm	-0.0001 ppm	0.0123 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm
Recovery Percentage 1	-0.685 %	-0.111 %	-0.007 %	0.543 %	0.157 %	-2.398 %	-1.477 %
Concentration RSD	186.4 %	1,104.9 %	3,020.0 %	11.9 %	72.3 %	17.9 %	78.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0011 ppm	-0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 1	0.0003 ppm	-0.0011 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 2	0.0021 ppm	-0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 3	0.0011 ppm	-0.0015 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm	-0.0001 ppm
Recovery Percentage 1	11.488 %	-0.259 %	0.097 %	0.489 %	-0.376 %	-2.385 %	-0.715 %
Concentration RSD	75.4 %	13.3 %	259.5 %	29.5 %	15.6 %	33.0 %	55.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	101.9478 %	99.4131 %	94.3050 %	95.4732 %	97.8621 %	94.2931 %
Concentration per Run 1	0.0002 ppm	102.9120 %	99.3943 %	94.2223 %	97.6950 %	97.7280 %	94.3088 %
Concentration per Run 2	0.0003 ppm	101.1428 %	99.4880 %	94.4042 %	94.7466 %	98.0150 %	94.5030 %
Concentration per Run 3	0.0001 ppm	101.7885 %	99.3570 %	94.2887 %	93.9780 %	97.8433 %	94.0676 %
Recovery Percentage 1	4.192 %						
Concentration RSD	38.8 %	0.9 %	0.1 %	0.1 %	2.1 %	0.1 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: XWG1975278-2 WG1975278
Analysis started at: 9/26/2024 9:04:06 PM
Comments <Comment>
Rack: 2
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0577 ppm	2.3253 ppm	0.1301 ppm	1.0893 ppm	2.3063 ppm	0.0531 ppm	10.5157 ppm
Concentration per Run 1	0.0578 ppm	2.2963 ppm	0.1301 ppm	1.0882 ppm	2.2960 ppm	0.0526 ppm	10.4967 ppm
Concentration per Run 2	0.0575 ppm	2.3350 ppm	0.1316 ppm	1.0930 ppm	2.3171 ppm	0.0532 ppm	10.5058 ppm
Concentration per Run 3	0.0578 ppm	2.3448 ppm	0.1287 ppm	1.0868 ppm	2.3058 ppm	0.0535 ppm	10.5445 ppm
Concentration RSD	0.3 %	1.1 %	1.1 %	0.3 %	0.5 %	0.8 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0554 ppm	0.4978 ppm	0.2069 ppm	0.2877 ppm	1.0537 ppm	12.0053 ppm	-0.0011 ppm
Concentration per Run 1	0.0554 ppm	0.4951 ppm	0.2063 ppm	0.2889 ppm	1.0456 ppm	11.8546 ppm	-0.0010 ppm
Concentration per Run 2	0.0554 ppm	0.4978 ppm	0.2070 ppm	0.2874 ppm	1.0560 ppm	12.0977 ppm	-0.0011 ppm
Concentration per Run 3	0.0554 ppm	0.5004 ppm	0.2072 ppm	0.2867 ppm	1.0595 ppm	12.0636 ppm	-0.0013 ppm
Concentration RSD	0.0 %	0.5 %	0.2 %	0.4 %	0.7 %	1.1 %	13.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	11.1099 ppm	0.5086 ppm	1.0719 ppm	12.1272 ppm	0.4884 ppm	0.5428 ppm	0.5316 ppm
Concentration per Run 1	11.1553 ppm	0.5087 ppm	1.0707 ppm	11.9882 ppm	0.4868 ppm	0.5422 ppm	0.5297 ppm
Concentration per Run 2	11.0635 ppm	0.5077 ppm	1.0717 ppm	12.2310 ppm	0.4872 ppm	0.5426 ppm	0.5334 ppm
Concentration per Run 3	11.1108 ppm	0.5093 ppm	1.0732 ppm	12.1624 ppm	0.4913 ppm	0.5435 ppm	0.5319 ppm
Concentration RSD	0.4 %	0.2 %	0.1 %	1.0 %	0.5 %	0.1 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1290 ppm	0.7908 ppm	1.0618 ppm	1.0951 ppm	1.0800 ppm	0.1238 ppm	0.5386 ppm
Concentration per Run 1	0.1272 ppm	0.7866 ppm	1.0614 ppm	1.0830 ppm	1.0818 ppm	0.1240 ppm	0.5395 ppm
Concentration per Run 2	0.1298 ppm	0.7913 ppm	1.0658 ppm	1.0993 ppm	1.0833 ppm	0.1233 ppm	0.5389 ppm
Concentration per Run 3	0.1299 ppm	0.7943 ppm	1.0582 ppm	1.1031 ppm	1.0750 ppm	0.1242 ppm	0.5373 ppm
Concentration RSD	1.2 %	0.5 %	0.4 %	1.0 %	0.4 %	0.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5114 ppm	101.4553 %	96.9812 %	91.3215 %	95.8111 %	87.9741 %	92.6334 %
Concentration per Run 1	0.5114 ppm	100.8982 %	96.9092 %	91.4665 %	96.6269 %	88.3469 %	92.5106 %
Concentration per Run 2	0.5127 ppm	101.9046 %	97.1464 %	91.3681 %	95.7396 %	88.2394 %	92.4795 %
Concentration per Run 3	0.5100 ppm	101.5631 %	96.8879 %	91.1300 %	95.0669 %	87.3360 %	92.9100 %
Concentration RSD	0.3 %	0.5 %	0.1 %	0.2 %	0.8 %	0.6 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453576-07d10 WG1975571
Analysis started at: 9/26/2024 9:10:17 PM
Comments <Comment>
Rack: 2
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0008 ppm	6.9096 ppm	0.0045 ppm	0.1162 ppm	0.2764 ppm	0.0001 ppm	27.8916 ppm
Concentration per Run 1	0.0009 ppm	6.6918 ppm	0.0034 ppm	0.1162 ppm	0.2679 ppm	0.0001 ppm	27.2080 ppm
Concentration per Run 2	0.0007 ppm	6.9269 ppm	0.0040 ppm	0.1166 ppm	0.2775 ppm	0.0001 ppm	28.2017 ppm
Concentration per Run 3	0.0008 ppm	7.1100 ppm	0.0061 ppm	0.1159 ppm	0.2838 ppm	0.0001 ppm	28.2651 ppm
Concentration RSD	12.3 %	3.0 %	30.5 %	0.3 %	2.9 %	2.7 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0028 ppm	0.0021 ppm	0.0133 ppm	0.3601 ppm	10.7256 ppm	2.3555 ppm	0.0081 ppm
Concentration per Run 1	0.0029 ppm	0.0021 ppm	0.0130 ppm	0.3611 ppm	10.4208 ppm	2.3018 ppm	0.0082 ppm
Concentration per Run 2	0.0029 ppm	0.0021 ppm	0.0135 ppm	0.3592 ppm	10.8025 ppm	2.3569 ppm	0.0077 ppm
Concentration per Run 3	0.0028 ppm	0.0022 ppm	0.0135 ppm	0.3601 ppm	10.9534 ppm	2.4078 ppm	0.0085 ppm
Concentration RSD	2.0 %	1.2 %	2.2 %	0.3 %	2.6 %	2.3 %	5.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	8.5193 ppm	0.1685 ppm	0.0008 ppm	12.6031 ppm	0.0209 ppm	0.9816 ppm	0.0009 ppm
Concentration per Run 1	8.5260 ppm	0.1638 ppm	0.0009 ppm	12.1376 ppm	0.0211 ppm	0.9848 ppm	-0.0002 ppm
Concentration per Run 2	8.5346 ppm	0.1704 ppm	0.0007 ppm	12.5097 ppm	0.0211 ppm	0.9824 ppm	0.0012 ppm
Concentration per Run 3	8.4973 ppm	0.1714 ppm	0.0009 ppm	13.1620 ppm	0.0207 ppm	0.9775 ppm	0.0015 ppm
Concentration RSD	0.2 %	2.4 %	13.5 %	4.1 %	1.2 %	0.4 %	109.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	4.1034 ppm	0.0078 ppm	0.3228 ppm	0.0375 ppm	-0.0005 ppm	0.0134 ppm
Concentration per Run 1	0.0020 ppm	4.1235 ppm	0.0080 ppm	0.3127 ppm	0.0375 ppm	-0.0004 ppm	0.0132 ppm
Concentration per Run 2	0.0015 ppm	4.0992 ppm	0.0077 ppm	0.3245 ppm	0.0375 ppm	-0.0005 ppm	0.0134 ppm
Concentration per Run 3	-0.0003 ppm	4.0875 ppm	0.0078 ppm	0.3311 ppm	0.0375 ppm	-0.0004 ppm	0.0136 ppm
Concentration RSD	116.2 %	0.4 %	2.4 %	2.9 %	0.0 %	9.4 %	1.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	7.8109 ppm	100.8301 %	96.8752 %	91.7215 %	95.4696 %	86.9621 %	92.1956 %
Concentration per Run 1	7.8048 ppm	102.4667 %	96.8104 %	91.6161 %	98.5157 %	86.6258 %	92.5051 %
Concentration per Run 2	7.8201 ppm	99.7105 %	96.9143 %	91.6285 %	94.4759 %	86.9743 %	92.1059 %
Concentration per Run 3	7.8076 ppm	100.3131 %	96.9008 %	91.9199 %	93.4172 %	87.2860 %	91.9758 %
Concentration RSD	0.1 %	1.4 %	0.1 %	0.2 %	2.8 %	0.4 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453880-01 WG1975278
Analysis started at: 9/26/2024 9:16:31 PM
Comments <Comment>
Rack: 2
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0042 ppm	0.0003 ppm	0.0358 ppm	0.1498 ppm	0.0000 ppm	44.3407 ppm
Concentration per Run 1	0.0003 ppm	-0.0037 ppm	0.0002 ppm	0.0359 ppm	0.1476 ppm	0.0000 ppm	43.8652 ppm
Concentration per Run 2	0.0004 ppm	-0.0010 ppm	-0.0003 ppm	0.0358 ppm	0.1501 ppm	-0.0001 ppm	44.5276 ppm
Concentration per Run 3	0.0000 ppm	-0.0081 ppm	0.0008 ppm	0.0357 ppm	0.1516 ppm	0.0000 ppm	44.6292 ppm
Concentration RSD	84.7 %	84.7 %	230.6 %	0.2 %	1.4 %	54.3 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0003 ppm	-0.0004 ppm	0.0006 ppm	0.0951 ppm	0.0010 ppm	1.2520 ppm	0.0005 ppm
Concentration per Run 1	-0.0003 ppm	-0.0004 ppm	0.0007 ppm	0.0951 ppm	0.0014 ppm	1.2573 ppm	0.0007 ppm
Concentration per Run 2	-0.0003 ppm	-0.0004 ppm	0.0005 ppm	0.0954 ppm	0.0002 ppm	1.2487 ppm	0.0000 ppm
Concentration per Run 3	-0.0004 ppm	-0.0004 ppm	0.0006 ppm	0.0948 ppm	0.0014 ppm	1.2499 ppm	0.0007 ppm
Concentration RSD	7.4 %	7.2 %	15.8 %	0.3 %	69.1 %	0.4 %	78.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	16.7500 ppm	0.0001 ppm	0.0003 ppm	18.3567 ppm	-0.0004 ppm	-0.0004 ppm	0.0007 ppm
Concentration per Run 1	16.7036 ppm	0.0001 ppm	0.0003 ppm	18.2072 ppm	-0.0002 ppm	-0.0005 ppm	0.0017 ppm
Concentration per Run 2	16.7374 ppm	0.0002 ppm	0.0003 ppm	18.3630 ppm	-0.0008 ppm	-0.0007 ppm	0.0002 ppm
Concentration per Run 3	16.8089 ppm	0.0000 ppm	0.0003 ppm	18.4999 ppm	-0.0002 ppm	-0.0001 ppm	0.0002 ppm
Concentration RSD	0.3 %	75.0 %	11.4 %	0.8 %	89.1 %	75.9 %	122.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	7.8358 ppm	0.0032 ppm	0.1111 ppm	-0.0001 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	7.8198 ppm	0.0035 ppm	0.1095 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 2	-0.0006 ppm	7.8230 ppm	0.0032 ppm	0.1114 ppm	-0.0002 ppm	-0.0005 ppm	-0.0002 ppm
Concentration per Run 3	0.0012 ppm	7.8647 ppm	0.0028 ppm	0.1123 ppm	-0.0002 ppm	-0.0006 ppm	0.0001 ppm
Concentration RSD	470.7 %	0.3 %	9.9 %	1.3 %	50.3 %	75.4 %	369.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0726 ppm	101.5289 %	95.4580 %	89.9114 %	95.5836 %	86.5045 %	91.1756 %
Concentration per Run 1	0.0727 ppm	102.2709 %	95.3881 %	90.2054 %	96.9304 %	86.8646 %	91.0761 %
Concentration per Run 2	0.0725 ppm	101.2374 %	95.5374 %	90.0438 %	95.4104 %	86.8459 %	91.5118 %
Concentration per Run 3	0.0725 ppm	101.0783 %	95.4484 %	89.4850 %	94.4101 %	85.8032 %	90.9388 %
Concentration RSD	0.1 %	0.6 %	0.1 %	0.4 %	1.3 %	0.7 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453972-01 WG1975278
Analysis started at: 9/26/2024 9:22:49 PM
Comments <Comment>
Rack: 2
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0212 ppm	-0.0011 ppm	0.0168 ppm	0.0391 ppm	0.0000 ppm	17.8569 ppm
Concentration per Run 1	-0.0001 ppm	0.0203 ppm	-0.0008 ppm	0.0169 ppm	0.0396 ppm	0.0000 ppm	18.0415 ppm
Concentration per Run 2	0.0002 ppm	0.0228 ppm	-0.0012 ppm	0.0171 ppm	0.0390 ppm	0.0000 ppm	17.6695 ppm
Concentration per Run 3	0.0001 ppm	0.0206 ppm	-0.0012 ppm	0.0165 ppm	0.0388 ppm	0.0000 ppm	17.8597 ppm
Concentration RSD	194.3 %	6.4 %	24.2 %	1.9 %	1.1 %	767.7 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0208 ppm	0.0059 ppm	2.5033 ppm	-0.0029 ppm
Concentration per Run 1	-0.0002 ppm	0.0000 ppm	-0.0003 ppm	0.0209 ppm	0.0057 ppm	2.5791 ppm	-0.0025 ppm
Concentration per Run 2	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0209 ppm	0.0056 ppm	2.4634 ppm	-0.0031 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0207 ppm	0.0066 ppm	2.4674 ppm	-0.0031 ppm
Concentration RSD	20.9 %	168.1 %	98.6 %	0.7 %	9.5 %	2.6 %	10.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.0367 ppm	0.0009 ppm	0.0005 ppm	107.1416 ppm	-0.0001 ppm	-0.0010 ppm	0.0005 ppm
Concentration per Run 1	4.0242 ppm	0.0010 ppm	0.0005 ppm	104.8395 ppm	-0.0001 ppm	-0.0013 ppm	0.0004 ppm
Concentration per Run 2	4.0453 ppm	0.0009 ppm	0.0006 ppm	113.6788 ppm	-0.0001 ppm	-0.0011 ppm	0.0011 ppm
Concentration per Run 3	4.0408 ppm	0.0007 ppm	0.0005 ppm	102.9066 ppm	-0.0002 ppm	-0.0005 ppm	-0.0002 ppm
Concentration RSD	0.3 %	17.1 %	7.2 %	5.4 %	33.0 %	43.3 %	139.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	2.1458 ppm	-0.0009 ppm	0.1076 ppm	-0.0001 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	0.0004 ppm	2.1416 ppm	-0.0008 ppm	0.1088 ppm	0.0000 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 2	0.0003 ppm	2.1568 ppm	-0.0008 ppm	0.1068 ppm	-0.0002 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 3	0.0007 ppm	2.1391 ppm	-0.0011 ppm	0.1071 ppm	-0.0001 ppm	-0.0004 ppm	-0.0001 ppm
Concentration RSD	41.8 %	0.4 %	22.1 %	1.0 %	67.1 %	8.5 %	121.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0033 ppm	98.7346 %	93.2809 %	88.7250 %	94.0032 %	82.2418 %	89.8396 %
Concentration per Run 1	0.0034 ppm	97.7013 %	93.2241 %	88.9113 %	93.9335 %	82.4494 %	89.8575 %
Concentration per Run 2	0.0034 ppm	99.6581 %	93.1263 %	88.1713 %	94.6393 %	81.8130 %	89.7555 %
Concentration per Run 3	0.0032 ppm	98.8443 %	93.4923 %	89.0923 %	93.4367 %	82.4629 %	89.9058 %
Concentration RSD	4.2 %	1.0 %	0.2 %	0.5 %	0.6 %	0.5 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453972-02 WG1975278
Analysis started at: 9/26/2024 9:29:18 PM
Comments <Comment>
Rack: 2
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0232 ppm	-0.0010 ppm	0.0174 ppm	0.0392 ppm	0.0000 ppm	17.9551 ppm
Concentration per Run 1	0.0003 ppm	0.0215 ppm	-0.0007 ppm	0.0174 ppm	0.0388 ppm	0.0000 ppm	17.8148 ppm
Concentration per Run 2	0.0004 ppm	0.0232 ppm	-0.0023 ppm	0.0175 ppm	0.0394 ppm	0.0000 ppm	17.8369 ppm
Concentration per Run 3	0.0003 ppm	0.0250 ppm	-0.0001 ppm	0.0173 ppm	0.0395 ppm	0.0000 ppm	18.2137 ppm
Concentration RSD	19.0 %	7.4 %	112.9 %	0.4 %	1.0 %	168.7 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0181 ppm	0.0121 ppm	2.4697 ppm	-0.0026 ppm
Concentration per Run 1	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0181 ppm	0.0123 ppm	2.4502 ppm	-0.0029 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0180 ppm	0.0121 ppm	2.5188 ppm	-0.0018 ppm
Concentration per Run 3	-0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0181 ppm	0.0120 ppm	2.4402 ppm	-0.0030 ppm
Concentration RSD	16.3 %	74.9 %	610.0 %	0.4 %	1.1 %	1.7 %	26.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.0408 ppm	0.0061 ppm	0.0007 ppm	108.1323 ppm	0.0000 ppm	-0.0012 ppm	-0.0004 ppm
Concentration per Run 1	4.0415 ppm	0.0060 ppm	0.0007 ppm	108.5924 ppm	-0.0002 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 2	4.0345 ppm	0.0060 ppm	0.0006 ppm	102.8685 ppm	-0.0001 ppm	-0.0013 ppm	-0.0006 ppm
Concentration per Run 3	4.0464 ppm	0.0062 ppm	0.0007 ppm	112.9360 ppm	0.0001 ppm	-0.0011 ppm	-0.0006 ppm
Concentration RSD	0.1 %	1.7 %	8.2 %	4.7 %	333.5 %	9.8 %	83.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	2.1664 ppm	-0.0006 ppm	0.1075 ppm	0.0001 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 1	0.0003 ppm	2.1605 ppm	-0.0004 ppm	0.1059 ppm	0.0002 ppm	-0.0002 ppm	-0.0004 ppm
Concentration per Run 2	0.0015 ppm	2.1642 ppm	-0.0005 ppm	0.1084 ppm	0.0001 ppm	-0.0002 ppm	-0.0003 ppm
Concentration per Run 3	0.0002 ppm	2.1745 ppm	-0.0009 ppm	0.1081 ppm	-0.0001 ppm	-0.0007 ppm	-0.0001 ppm
Concentration RSD	105.3 %	0.3 %	36.7 %	1.3 %	215.6 %	81.9 %	70.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0049 ppm	100.0955 %	93.7820 %	89.3489 %	94.8026 %	82.7984 %	90.2297 %
Concentration per Run 1	0.0049 ppm	100.0125 %	93.4996 %	89.3672 %	95.7901 %	82.8794 %	90.1725 %
Concentration per Run 2	0.0050 ppm	101.2460 %	93.8161 %	89.4300 %	95.5455 %	82.8882 %	90.1024 %
Concentration per Run 3	0.0048 ppm	99.0281 %	94.0304 %	89.2495 %	93.0721 %	82.6275 %	90.4141 %
Concentration RSD	1.8 %	1.1 %	0.3 %	0.1 %	1.6 %	0.2 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2454198-01 WG1975278
Analysis started at: 9/26/2024 9:35:46 PM
Comments <Comment>
Rack: 2
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0066 ppm	0.0007 ppm	0.1729 ppm	0.0014 ppm	0.0000 ppm	2.9629 ppm
Concentration per Run 1	0.0003 ppm	0.0074 ppm	-0.0006 ppm	0.1727 ppm	0.0013 ppm	0.0000 ppm	2.9258 ppm
Concentration per Run 2	0.0001 ppm	0.0053 ppm	0.0006 ppm	0.1726 ppm	0.0014 ppm	0.0000 ppm	2.9780 ppm
Concentration per Run 3	0.0002 ppm	0.0069 ppm	0.0021 ppm	0.1735 ppm	0.0015 ppm	0.0000 ppm	2.9847 ppm
Concentration RSD	55.5 %	16.6 %	195.3 %	0.3 %	4.5 %	175.8 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.1178 ppm	0.0138 ppm	0.2021 ppm	-0.0067 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.1184 ppm	0.0137 ppm	0.1923 ppm	-0.0074 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.1176 ppm	0.0136 ppm	0.2055 ppm	-0.0061 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.1174 ppm	0.0140 ppm	0.2085 ppm	-0.0067 ppm
Concentration RSD	298.1 %	30.2 %	41.1 %	0.5 %	1.8 %	4.3 %	10.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.2418 ppm	0.0009 ppm	0.0017 ppm	256.3683 ppm	-0.0001 ppm	-0.0031 ppm	-0.0003 ppm
Concentration per Run 1	1.2317 ppm	0.0007 ppm	0.0017 ppm	265.8154 ppm	-0.0001 ppm	-0.0033 ppm	-0.0003 ppm
Concentration per Run 2	1.2502 ppm	0.0009 ppm	0.0017 ppm	254.9447 ppm	0.0001 ppm	-0.0031 ppm	0.0000 ppm
Concentration per Run 3	1.2434 ppm	0.0010 ppm	0.0017 ppm	248.3447 ppm	-0.0002 ppm	-0.0030 ppm	-0.0005 ppm
Concentration RSD	0.8 %	13.7 %	1.0 %	3.4 %	274.5 %	5.1 %	91.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0020 ppm	9.1676 ppm	-0.0009 ppm	0.0130 ppm	-0.0001 ppm	-0.0007 ppm	0.0004 ppm
Concentration per Run 1	0.0016 ppm	9.1494 ppm	-0.0007 ppm	0.0128 ppm	-0.0001 ppm	-0.0015 ppm	0.0004 ppm
Concentration per Run 2	0.0026 ppm	9.1708 ppm	-0.0012 ppm	0.0130 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 3	0.0020 ppm	9.1825 ppm	-0.0009 ppm	0.0132 ppm	0.0000 ppm	-0.0006 ppm	0.0003 ppm
Concentration RSD	24.2 %	0.2 %	25.3 %	1.5 %	137.7 %	125.4 %	7.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0181 ppm	98.8904 %	90.3220 %	86.8835 %	93.0399 %	75.5250 %	87.2857 %
Concentration per Run 1	0.0182 ppm	99.5930 %	90.5132 %	87.4280 %	94.4618 %	75.8692 %	87.4839 %
Concentration per Run 2	0.0182 ppm	98.0725 %	90.0858 %	86.8200 %	92.3054 %	75.4528 %	87.1259 %
Concentration per Run 3	0.0179 ppm	99.0055 %	90.3671 %	86.4026 %	92.3527 %	75.2528 %	87.2472 %
Concentration RSD	0.8 %	0.8 %	0.2 %	0.6 %	1.3 %	0.4 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2454324-06 WG1975278
Analysis started at: 9/26/2024 9:42:14 PM
Comments <Comment>
Rack: 2
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	-0.0036 ppm	-0.0007 ppm	0.0084 ppm	0.0053 ppm	0.0001 ppm	42.1790 ppm
Concentration per Run 1	0.0004 ppm	-0.0041 ppm	-0.0014 ppm	0.0082 ppm	0.0053 ppm	0.0001 ppm	41.7516 ppm
Concentration per Run 2	0.0004 ppm	-0.0078 ppm	-0.0009 ppm	0.0085 ppm	0.0053 ppm	0.0000 ppm	42.2131 ppm
Concentration per Run 3	0.0002 ppm	0.0010 ppm	0.0003 ppm	0.0085 ppm	0.0054 ppm	0.0001 ppm	42.5723 ppm
Concentration RSD	33.5 %	122.7 %	128.4 %	2.1 %	1.6 %	25.4 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0003 ppm	-0.0004 ppm	0.0000 ppm	0.0080 ppm	0.0041 ppm	0.5818 ppm	0.0062 ppm
Concentration per Run 1	-0.0003 ppm	-0.0004 ppm	0.0001 ppm	0.0078 ppm	0.0038 ppm	0.5646 ppm	0.0054 ppm
Concentration per Run 2	-0.0002 ppm	-0.0006 ppm	-0.0001 ppm	0.0080 ppm	0.0044 ppm	0.5905 ppm	0.0068 ppm
Concentration per Run 3	-0.0003 ppm	-0.0004 ppm	-0.0001 ppm	0.0081 ppm	0.0041 ppm	0.5902 ppm	0.0063 ppm
Concentration RSD	6.4 %	29.6 %	450.7 %	1.9 %	7.8 %	2.6 %	11.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.6126 ppm	0.0001 ppm	0.0123 ppm	10.9031 ppm	-0.0007 ppm	-0.0028 ppm	0.0004 ppm
Concentration per Run 1	3.6094 ppm	0.0001 ppm	0.0122 ppm	10.5784 ppm	-0.0008 ppm	-0.0028 ppm	-0.0004 ppm
Concentration per Run 2	3.6115 ppm	0.0002 ppm	0.0122 ppm	11.0566 ppm	-0.0008 ppm	-0.0029 ppm	0.0012 ppm
Concentration per Run 3	3.6169 ppm	0.0000 ppm	0.0124 ppm	11.0745 ppm	-0.0007 ppm	-0.0027 ppm	0.0004 ppm
Concentration RSD	0.1 %	98.5 %	0.9 %	2.6 %	8.1 %	2.2 %	200.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0008 ppm	8.5758 ppm	-0.0009 ppm	0.4339 ppm	-0.0002 ppm	-0.0009 ppm	-0.0004 ppm
Concentration per Run 1	-0.0001 ppm	8.5769 ppm	-0.0011 ppm	0.4253 ppm	-0.0003 ppm	-0.0020 ppm	-0.0004 ppm
Concentration per Run 2	0.0011 ppm	8.5764 ppm	-0.0004 ppm	0.4350 ppm	0.0001 ppm	-0.0001 ppm	-0.0006 ppm
Concentration per Run 3	0.0015 ppm	8.5740 ppm	-0.0013 ppm	0.4414 ppm	-0.0004 ppm	-0.0005 ppm	-0.0001 ppm
Concentration RSD	103.7 %	0.0 %	46.7 %	1.9 %	137.6 %	110.6 %	78.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0134 ppm	101.5356 %	96.8275 %	91.5326 %	96.0778 %	87.7153 %	92.4161 %
Concentration per Run 1	0.0133 ppm	101.8264 %	96.7812 %	91.5495 %	97.3213 %	87.8065 %	92.7674 %
Concentration per Run 2	0.0133 ppm	101.5241 %	96.9497 %	91.7142 %	96.4207 %	87.7920 %	92.5213 %
Concentration per Run 3	0.0135 ppm	101.2563 %	96.7516 %	91.3342 %	94.4916 %	87.5474 %	91.9595 %
Concentration RSD	0.8 %	0.3 %	0.1 %	0.2 %	1.5 %	0.2 %	0.4 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2454324-07 WG1975278
Analysis started at: 9/26/2024 9:48:34 PM
Comments <Comment>
Rack: 2
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0045 ppm	-0.0014 ppm	0.0406 ppm	0.0039 ppm	0.0001 ppm	47.9963 ppm
Concentration per Run 1	-0.0001 ppm	-0.0030 ppm	-0.0022 ppm	0.0407 ppm	0.0038 ppm	0.0001 ppm	47.3736 ppm
Concentration per Run 2	0.0000 ppm	-0.0095 ppm	-0.0016 ppm	0.0404 ppm	0.0039 ppm	0.0001 ppm	48.3288 ppm
Concentration per Run 3	0.0002 ppm	-0.0011 ppm	-0.0003 ppm	0.0406 ppm	0.0040 ppm	0.0001 ppm	48.2864 ppm
Concentration RSD	370.5 %	98.3 %	69.4 %	0.4 %	2.3 %	24.5 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0003 ppm	-0.0004 ppm	0.0000 ppm	0.0144 ppm	0.0062 ppm	1.1451 ppm	0.0026 ppm
Concentration per Run 1	-0.0003 ppm	-0.0004 ppm	-0.0001 ppm	0.0145 ppm	0.0069 ppm	1.0959 ppm	0.0026 ppm
Concentration per Run 2	-0.0004 ppm	-0.0003 ppm	0.0000 ppm	0.0144 ppm	0.0058 ppm	1.1338 ppm	0.0024 ppm
Concentration per Run 3	-0.0003 ppm	-0.0003 ppm	0.0000 ppm	0.0144 ppm	0.0059 ppm	1.2055 ppm	0.0026 ppm
Concentration RSD	10.8 %	14.6 %	49.4 %	0.5 %	9.5 %	4.9 %	4.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.1438 ppm	0.0002 ppm	0.0345 ppm	17.8476 ppm	-0.0003 ppm	-0.0027 ppm	0.0006 ppm
Concentration per Run 1	3.1809 ppm	0.0001 ppm	0.0345 ppm	17.2586 ppm	-0.0005 ppm	-0.0031 ppm	0.0007 ppm
Concentration per Run 2	3.1042 ppm	0.0003 ppm	0.0346 ppm	17.8092 ppm	-0.0001 ppm	-0.0027 ppm	0.0001 ppm
Concentration per Run 3	3.1465 ppm	0.0001 ppm	0.0344 ppm	18.4749 ppm	-0.0005 ppm	-0.0022 ppm	0.0008 ppm
Concentration RSD	1.2 %	67.7 %	0.3 %	3.4 %	74.1 %	17.8 %	66.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	6.6110 ppm	-0.0008 ppm	0.1967 ppm	-0.0002 ppm	-0.0005 ppm	-0.0002 ppm
Concentration per Run 1	-0.0015 ppm	6.6095 ppm	-0.0007 ppm	0.1921 ppm	-0.0001 ppm	-0.0010 ppm	-0.0001 ppm
Concentration per Run 2	0.0024 ppm	6.6234 ppm	-0.0008 ppm	0.1989 ppm	-0.0003 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 3	0.0021 ppm	6.6002 ppm	-0.0008 ppm	0.1991 ppm	-0.0003 ppm	-0.0007 ppm	-0.0004 ppm
Concentration RSD	213.0 %	0.2 %	5.8 %	2.0 %	57.4 %	117.6 %	81.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0061 ppm	101.6344 %	94.9614 %	90.5058 %	96.7658 %	86.1535 %	90.8994 %
Concentration per Run 1	0.0060 ppm	102.4209 %	94.0651 %	90.5710 %	98.5132 %	86.2520 %	89.9346 %
Concentration per Run 2	0.0061 ppm	101.1306 %	95.8049 %	90.2403 %	96.0395 %	85.9185 %	91.9254 %
Concentration per Run 3	0.0061 ppm	101.3517 %	95.0141 %	90.7061 %	95.7447 %	86.2901 %	90.8382 %
Concentration RSD	0.8 %	0.7 %	0.9 %	0.3 %	1.6 %	0.2 %	1.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2454325-01 WG1975278
Analysis started at: 9/26/2024 9:54:55 PM
Comments <Comment>
Rack: 2
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0000 ppm	-0.0012 ppm	0.0235 ppm	0.0002 ppm	0.0000 ppm	3.7328 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0234 ppm	0.0001 ppm	0.0000 ppm	3.7044 ppm
Concentration per Run 2	0.0001 ppm	0.0024 ppm	-0.0016 ppm	0.0235 ppm	0.0002 ppm	0.0000 ppm	3.7305 ppm
Concentration per Run 3	0.0001 ppm	-0.0023 ppm	-0.0016 ppm	0.0234 ppm	0.0002 ppm	0.0000 ppm	3.7635 ppm
Concentration RSD	8.6 %	11,729.2 %	54.9 %	0.3 %	28.2 %	97.6 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0059 ppm	0.0015 ppm	0.5780 ppm	0.0021 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0003 ppm	0.0059 ppm	0.0007 ppm	0.5714 ppm	0.0020 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	-0.0003 ppm	0.0060 ppm	0.0016 ppm	0.5585 ppm	0.0017 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0057 ppm	0.0023 ppm	0.6041 ppm	0.0025 ppm
Concentration RSD	85.0 %	30.0 %	46.4 %	2.6 %	52.0 %	4.1 %	19.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.6750 ppm	0.0002 ppm	0.0001 ppm	3.6163 ppm	0.0000 ppm	-0.0009 ppm	-0.0005 ppm
Concentration per Run 1	0.6767 ppm	0.0002 ppm	0.0001 ppm	3.5740 ppm	-0.0001 ppm	-0.0013 ppm	-0.0007 ppm
Concentration per Run 2	0.6784 ppm	0.0003 ppm	0.0001 ppm	3.5852 ppm	0.0001 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 3	0.6699 ppm	0.0002 ppm	0.0002 ppm	3.6897 ppm	0.0001 ppm	-0.0009 ppm	-0.0004 ppm
Concentration RSD	0.7 %	25.3 %	45.9 %	1.8 %	328.5 %	34.4 %	57.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	1.4689 ppm	-0.0004 ppm	0.0058 ppm	0.0000 ppm	-0.0011 ppm	-0.0002 ppm
Concentration per Run 1	-0.0001 ppm	1.4728 ppm	-0.0003 ppm	0.0058 ppm	0.0000 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 2	0.0010 ppm	1.4687 ppm	-0.0006 ppm	0.0057 ppm	-0.0001 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 3	0.0012 ppm	1.4653 ppm	-0.0003 ppm	0.0059 ppm	0.0001 ppm	-0.0012 ppm	-0.0002 ppm
Concentration RSD	99.5 %	0.3 %	42.7 %	1.1 %	550.6 %	26.2 %	37.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0213 ppm	102.4190 %	99.7814 %	94.4346 %	96.8336 %	94.9045 %	95.6486 %
Concentration per Run 1	0.0211 ppm	103.2860 %	99.9021 %	94.6013 %	98.0961 %	95.0015 %	95.6168 %
Concentration per Run 2	0.0213 ppm	101.3934 %	100.0039 %	94.2449 %	96.5970 %	94.6769 %	95.9629 %
Concentration per Run 3	0.0214 ppm	102.5775 %	99.4381 %	94.4575 %	95.8076 %	95.0351 %	95.3661 %
Concentration RSD	0.6 %	0.9 %	0.3 %	0.2 %	1.2 %	0.2 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCV
Analysis started at: 9/26/2024 10:01:17 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5131 ppm	0.5261 ppm	0.4995 ppm	0.5204 ppm	0.5334 ppm	0.5021 ppm	0.4917 ppm
Concentration per Run 1	0.5134 ppm	0.5125 ppm	0.4994 ppm	0.5205 ppm	0.5166 ppm	0.4874 ppm	0.4792 ppm
Concentration per Run 2	0.5137 ppm	0.5344 ppm	0.4989 ppm	0.5204 ppm	0.5391 ppm	0.5080 ppm	0.4963 ppm
Concentration per Run 3	0.5123 ppm	0.5315 ppm	0.5002 ppm	0.5205 ppm	0.5444 ppm	0.5108 ppm	0.4995 ppm
Recovery Percentage 1	102.623 %	105.223 %	99.899 %	104.090 %	106.673 %	100.414 %	98.333 %
Concentration RSD	0.1 %	2.3 %	0.1 %	0.0 %	2.8 %	2.5 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4869 ppm	0.4713 ppm	0.4870 ppm	0.5114 ppm	0.4866 ppm	5.4080 ppm	0.5606 ppm
Concentration per Run 1	0.4871 ppm	0.4711 ppm	0.4878 ppm	0.5126 ppm	0.4717 ppm	5.2830 ppm	0.5407 ppm
Concentration per Run 2	0.4871 ppm	0.4703 ppm	0.4844 ppm	0.5116 ppm	0.4928 ppm	5.4776 ppm	0.5656 ppm
Concentration per Run 3	0.4866 ppm	0.4725 ppm	0.4887 ppm	0.5100 ppm	0.4953 ppm	5.4635 ppm	0.5754 ppm
Recovery Percentage 1	97.388 %	94.257 %	97.395 %	102.282 %	97.314 %	108.161 %	112.113 %
Concentration RSD	0.1 %	0.2 %	0.5 %	0.3 %	2.7 %	2.0 %	3.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5136 ppm	0.4682 ppm	0.5016 ppm	10.9900 ppm	0.4618 ppm	0.4739 ppm	0.4876 ppm
Concentration per Run 1	0.5150 ppm	0.4530 ppm	0.5020 ppm	10.5819 ppm	0.4620 ppm	0.4733 ppm	0.4865 ppm
Concentration per Run 2	0.5146 ppm	0.4739 ppm	0.5019 ppm	11.1199 ppm	0.4608 ppm	0.4739 ppm	0.4868 ppm
Concentration per Run 3	0.5111 ppm	0.4777 ppm	0.5009 ppm	11.2683 ppm	0.4625 ppm	0.4745 ppm	0.4894 ppm
Recovery Percentage 1	102.715 %	93.644 %	100.321 %	109.900 %	92.357 %	94.784 %	97.515 %
Concentration RSD	0.4 %	2.8 %	0.1 %	3.3 %	0.2 %	0.1 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5062 ppm	5.2477 ppm	0.4985 ppm	0.5038 ppm	0.5082 ppm	0.4961 ppm	0.4995 ppm
Concentration per Run 1	0.5066 ppm	5.2327 ppm	0.4972 ppm	0.4884 ppm	0.5086 ppm	0.4946 ppm	0.5007 ppm
Concentration per Run 2	0.5063 ppm	5.2488 ppm	0.4977 ppm	0.5094 ppm	0.5062 ppm	0.4966 ppm	0.4973 ppm
Concentration per Run 3	0.5058 ppm	5.2617 ppm	0.5007 ppm	0.5135 ppm	0.5097 ppm	0.4972 ppm	0.5004 ppm
Recovery Percentage 1	101.249 %	99.956 %	99.705 %	100.756 %	101.632 %	99.223 %	99.890 %
Concentration RSD	0.1 %	0.3 %	0.4 %	2.7 %	0.4 %	0.3 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4863 ppm	101.0515 %	98.0808 %	94.0652 %	95.7119 %	91.0550 %	94.2516 %
Concentration per Run 1	0.4873 ppm	102.6304 %	98.3515 %	94.1502 %	98.9024 %	91.2364 %	94.3896 %
Concentration per Run 2	0.4857 ppm	100.5666 %	98.1346 %	94.0395 %	94.8336 %	90.9685 %	94.4914 %
Concentration per Run 3	0.4859 ppm	99.9574 %	97.7563 %	94.0059 %	93.3997 %	90.9602 %	93.8737 %
Recovery Percentage 1	97.264 %						
Concentration RSD	0.2 %	1.4 %	0.3 %	0.1 %	3.0 %	0.2 %	0.4 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCB
Analysis started at: 9/26/2024 10:07:20 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0031 ppm	-0.0005 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 1	-0.0001 ppm	-0.0052 ppm	-0.0002 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 2	-0.0001 ppm	-0.0006 ppm	-0.0013 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 3	-0.0001 ppm	-0.0037 ppm	-0.0001 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm
Recovery Percentage 1	-1.768 %	-3.141 %	-10.655 %	3.376 %	-0.227 %	0.207 %	1.027 %
Concentration RSD	26.3 %	75.3 %	126.1 %	17.9 %	254.2 %	111.6 %	46.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0009 ppm	0.0064 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0014 ppm	-0.0015 ppm	-0.0008 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0010 ppm	0.0168 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0039 ppm	-0.0006 ppm
Recovery Percentage 1	0.378 %	0.005 %	0.195 %	4.171 %	1.769 %	0.257 %	-6.608 %
Concentration RSD	20.1 %	8,613.6 %	57.5 %	16.9 %	58.1 %	146.8 %	16.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0104 ppm	-0.0001 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 1	-0.0009 ppm	0.0000 ppm	0.0003 ppm	0.0106 ppm	0.0000 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 2	-0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0101 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	-0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0105 ppm	-0.0002 ppm	-0.0004 ppm	-0.0004 ppm
Recovery Percentage 1	-0.794 %	-0.394 %	0.128 %	0.520 %	-0.263 %	-2.459 %	-0.439 %
Concentration RSD	42.4 %	123.3 %	278.6 %	2.5 %	136.6 %	84.4 %	106.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0001 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 2	-0.0003 ppm	-0.0013 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 3	-0.0004 ppm	-0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm
Recovery Percentage 1	-1.162 %	-0.205 %	0.007 %	0.107 %	0.724 %	-0.543 %	0.358 %
Concentration RSD	313.5 %	35.8 %	3,372.5 %	300.0 %	88.6 %	612.2 %	475.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	100.7614 %	99.1317 %	95.2408 %	95.8427 %	97.7974 %	95.2824 %
Concentration per Run 1	0.0001 ppm	102.7192 %	99.1970 %	94.4232 %	99.0723 %	96.9387 %	95.1751 %
Concentration per Run 2	0.0001 ppm	100.1998 %	99.2752 %	95.7139 %	94.3461 %	98.0811 %	95.5109 %
Concentration per Run 3	0.0001 ppm	99.3653 %	98.9230 %	95.5853 %	94.1098 %	98.3724 %	95.1614 %
Recovery Percentage 1	2.116 %						
Concentration RSD	22.5 %	1.7 %	0.2 %	0.7 %	2.9 %	0.8 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCV
Analysis started at: 9/26/2024 10:13:46 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5111 ppm	0.5277 ppm	0.5014 ppm	0.5187 ppm	0.5318 ppm	0.5048 ppm	0.4885 ppm
Concentration per Run 1	0.5109 ppm	0.5143 ppm	0.4990 ppm	0.5185 ppm	0.5162 ppm	0.4900 ppm	0.4765 ppm
Concentration per Run 2	0.5110 ppm	0.5354 ppm	0.5035 ppm	0.5198 ppm	0.5397 ppm	0.5115 ppm	0.4907 ppm
Concentration per Run 3	0.5115 ppm	0.5334 ppm	0.5018 ppm	0.5179 ppm	0.5395 ppm	0.5129 ppm	0.4983 ppm
Recovery Percentage 1	102.226 %	105.542 %	100.282 %	103.744 %	106.354 %	100.961 %	97.693 %
Concentration RSD	0.1 %	2.2 %	0.5 %	0.2 %	2.5 %	2.5 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4874 ppm	0.4753 ppm	0.4889 ppm	0.5114 ppm	0.4892 ppm	5.2974 ppm	0.5480 ppm
Concentration per Run 1	0.4875 ppm	0.4746 ppm	0.4875 ppm	0.5128 ppm	0.4749 ppm	5.2719 ppm	0.5332 ppm
Concentration per Run 2	0.4869 ppm	0.4760 ppm	0.4877 ppm	0.5111 ppm	0.4927 ppm	5.2896 ppm	0.5526 ppm
Concentration per Run 3	0.4877 ppm	0.4752 ppm	0.4914 ppm	0.5103 ppm	0.4999 ppm	5.3306 ppm	0.5583 ppm
Recovery Percentage 1	97.478 %	95.051 %	97.779 %	102.283 %	97.833 %	105.947 %	109.610 %
Concentration RSD	0.1 %	0.2 %	0.5 %	0.3 %	2.6 %	0.6 %	2.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5086 ppm	0.4694 ppm	0.5034 ppm	10.8076 ppm	0.4682 ppm	0.4786 ppm	0.4898 ppm
Concentration per Run 1	0.5050 ppm	0.4568 ppm	0.5029 ppm	10.5395 ppm	0.4681 ppm	0.4772 ppm	0.4901 ppm
Concentration per Run 2	0.5078 ppm	0.4737 ppm	0.5041 ppm	10.8768 ppm	0.4686 ppm	0.4792 ppm	0.4906 ppm
Concentration per Run 3	0.5129 ppm	0.4776 ppm	0.5033 ppm	11.0065 ppm	0.4679 ppm	0.4793 ppm	0.4886 ppm
Recovery Percentage 1	101.718 %	93.874 %	100.687 %	108.076 %	93.636 %	95.713 %	97.956 %
Concentration RSD	0.8 %	2.4 %	0.1 %	2.2 %	0.1 %	0.3 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5092 ppm	5.2998 ppm	0.4973 ppm	0.5026 ppm	0.5084 ppm	0.4999 ppm	0.4991 ppm
Concentration per Run 1	0.5099 ppm	5.2930 ppm	0.4965 ppm	0.4878 ppm	0.5067 ppm	0.4990 ppm	0.4970 ppm
Concentration per Run 2	0.5087 ppm	5.3212 ppm	0.4975 ppm	0.5097 ppm	0.5078 ppm	0.5010 ppm	0.4987 ppm
Concentration per Run 3	0.5090 ppm	5.2851 ppm	0.4978 ppm	0.5104 ppm	0.5107 ppm	0.4998 ppm	0.5017 ppm
Recovery Percentage 1	101.832 %	100.948 %	99.455 %	100.525 %	101.688 %	99.985 %	99.823 %
Concentration RSD	0.1 %	0.4 %	0.1 %	2.6 %	0.4 %	0.2 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4882 ppm	100.3609 %	98.1935 %	94.1700 %	94.9831 %	90.4679 %	94.7403 %
Concentration per Run 1	0.4878 ppm	101.9169 %	98.3398 %	94.1015 %	98.0620 %	90.5100 %	94.9749 %
Concentration per Run 2	0.4881 ppm	100.2505 %	98.1452 %	94.0641 %	94.0579 %	90.2408 %	94.7024 %
Concentration per Run 3	0.4888 ppm	98.9152 %	98.0956 %	94.3445 %	92.8293 %	90.6530 %	94.5436 %
Recovery Percentage 1	97.649 %						
Concentration RSD	0.1 %	1.5 %	0.1 %	0.2 %	2.9 %	0.2 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCB
Analysis started at: 9/26/2024 10:22:28 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0013 ppm	0.0002 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 1	0.0002 ppm	0.0005 ppm	-0.0010 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 2	-0.0002 ppm	0.0022 ppm	0.0014 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run 3	0.0000 ppm	0.0012 ppm	0.0001 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm
Recovery Percentage 1	-0.102 %	1.316 %	3.722 %	2.606 %	-0.728 %	0.152 %	0.509 %
Concentration RSD	2,647.3 %	66.5 %	644.8 %	18.7 %	34.4 %	386.7 %	423.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0016 ppm	-0.0059 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0020 ppm	-0.0187 ppm	-0.0010 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0017 ppm	-0.0130 ppm	-0.0008 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0011 ppm	0.0139 ppm	-0.0003 ppm
Recovery Percentage 1	-0.243 %	-0.002 %	0.674 %	3.004 %	3.144 %	-0.237 %	-6.642 %
Concentration RSD	251.9 %	21,252.9 %	389.9 %	10.5 %	29.3 %	293.7 %	55.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0070 ppm	0.0001 ppm	-0.0005 ppm	-0.0003 ppm
Concentration per Run 1	0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0061 ppm	0.0001 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 2	-0.0018 ppm	0.0001 ppm	0.0000 ppm	0.0069 ppm	0.0000 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 3	-0.0015 ppm	0.0002 ppm	0.0000 ppm	0.0081 ppm	0.0002 ppm	-0.0005 ppm	-0.0007 ppm
Recovery Percentage 1	-1.037 %	0.713 %	-0.041 %	0.352 %	0.378 %	-5.102 %	-0.537 %
Concentration RSD	105.1 %	186.6 %	99.2 %	14.2 %	88.9 %	14.2 %	128.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0008 ppm	-0.0015 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0020 ppm	-0.0017 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	0.0013 ppm	-0.0014 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 3	-0.0008 ppm	-0.0014 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	-0.0002 ppm
Recovery Percentage 1	8.420 %	-0.296 %	-0.553 %	0.384 %	-0.232 %	-0.570 %	-1.320 %
Concentration RSD	177.9 %	13.5 %	130.1 %	16.6 %	293.7 %	201.8 %	122.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	100.1177 %	99.7171 %	95.7080 %	94.9804 %	98.2805 %	95.7667 %
Concentration per Run 1	0.0003 ppm	99.9844 %	100.0048 %	95.7938 %	96.3900 %	98.0407 %	95.7763 %
Concentration per Run 2	0.0003 ppm	100.8849 %	99.3277 %	95.9109 %	95.0003 %	98.2836 %	95.6684 %
Concentration per Run 3	0.0003 ppm	99.4839 %	99.8187 %	95.4194 %	93.5510 %	98.5172 %	95.8553 %
Recovery Percentage 1	5.630 %						
Concentration RSD	17.9 %	0.7 %	0.4 %	0.3 %	1.5 %	0.2 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453831-01D2 WG1975353
Analysis started at: 9/26/2024 10:30:32 PM
Comments <Comment>
Rack: 2
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0011 ppm	48.2454 ppm	0.1519 ppm	0.0238 ppm	0.1009 ppm	0.0030 ppm	3.1606 ppm
Concentration per Run 1	-0.0012 ppm	47.6029 ppm	0.1500 ppm	0.0234 ppm	0.0997 ppm	0.0030 ppm	3.1593 ppm
Concentration per Run 2	-0.0009 ppm	48.5120 ppm	0.1523 ppm	0.0241 ppm	0.1015 ppm	0.0030 ppm	3.1851 ppm
Concentration per Run 3	-0.0012 ppm	48.6215 ppm	0.1534 ppm	0.0240 ppm	0.1016 ppm	0.0030 ppm	3.1374 ppm
Concentration RSD	15.5 %	1.2 %	1.1 %	1.5 %	1.1 %	0.0 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0029 ppm	0.0096 ppm	0.1574 ppm	0.0741 ppm	369.3936 ppm	4.9456 ppm	0.0251 ppm
Concentration per Run 1	0.0029 ppm	0.0095 ppm	0.1578 ppm	0.0742 ppm	369.1810 ppm	4.8665 ppm	0.0243 ppm
Concentration per Run 2	0.0030 ppm	0.0098 ppm	0.1580 ppm	0.0736 ppm	370.0893 ppm	4.9307 ppm	0.0249 ppm
Concentration per Run 3	0.0029 ppm	0.0095 ppm	0.1564 ppm	0.0745 ppm	368.9105 ppm	5.0396 ppm	0.0260 ppm
Concentration RSD	2.1 %	1.7 %	0.6 %	0.7 %	0.2 %	1.8 %	3.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.6731 ppm	0.2144 ppm	0.0009 ppm	0.1100 ppm	0.0515 ppm	0.0500 ppm	-0.0169 ppm
Concentration per Run 1	2.6520 ppm	0.2145 ppm	0.0010 ppm	0.1097 ppm	0.0515 ppm	0.0504 ppm	-0.0157 ppm
Concentration per Run 2	2.6961 ppm	0.2153 ppm	0.0008 ppm	0.1106 ppm	0.0513 ppm	0.0497 ppm	-0.0178 ppm
Concentration per Run 3	2.6712 ppm	0.2132 ppm	0.0010 ppm	0.1097 ppm	0.0518 ppm	0.0498 ppm	-0.0173 ppm
Concentration RSD	0.8 %	0.5 %	10.5 %	0.5 %	0.4 %	0.7 %	6.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0053 ppm	3.5940 ppm	0.0041 ppm	0.0430 ppm	0.6971 ppm	0.0005 ppm	0.6135 ppm
Concentration per Run 1	0.0032 ppm	3.5942 ppm	0.0039 ppm	0.0425 ppm	0.6989 ppm	0.0006 ppm	0.6146 ppm
Concentration per Run 2	0.0072 ppm	3.5937 ppm	0.0046 ppm	0.0432 ppm	0.6965 ppm	0.0015 ppm	0.6127 ppm
Concentration per Run 3	0.0055 ppm	3.5941 ppm	0.0040 ppm	0.0432 ppm	0.6960 ppm	-0.0006 ppm	0.6131 ppm
Concentration RSD	38.0 %	0.0 %	8.8 %	0.9 %	0.2 %	230.2 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4301 ppm	109.4791 %	105.6421 %	100.4355 %	96.7601 %	79.7288 %	95.6120 %
Concentration per Run 1	0.4323 ppm	108.6256 %	105.7415 %	101.1018 %	97.0103 %	79.9784 %	95.5445 %
Concentration per Run 2	0.4284 ppm	109.7696 %	105.6172 %	100.0784 %	96.4732 %	79.5981 %	95.6692 %
Concentration per Run 3	0.4296 ppm	110.0421 %	105.5675 %	100.1262 %	96.7966 %	79.6099 %	95.6221 %
Concentration RSD	0.5 %	0.7 %	0.1 %	0.6 %	0.3 %	0.3 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453831-02D2 WG1975353
Analysis started at: 9/26/2024 10:36:52 PM
Comments <Comment>
Rack: 2
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0012 ppm	81.0008 ppm	0.1832 ppm	0.0552 ppm	0.1509 ppm	0.0040 ppm	4.3091 ppm
Concentration per Run 1	-0.0011 ppm	79.4474 ppm	0.1838 ppm	0.0550 ppm	0.1480 ppm	0.0039 ppm	4.2598 ppm
Concentration per Run 2	-0.0013 ppm	80.9150 ppm	0.1841 ppm	0.0556 ppm	0.1509 ppm	0.0040 ppm	4.3371 ppm
Concentration per Run 3	-0.0012 ppm	82.6398 ppm	0.1818 ppm	0.0549 ppm	0.1540 ppm	0.0040 ppm	4.3303 ppm
Concentration RSD	7.3 %	2.0 %	0.7 %	0.7 %	2.0 %	1.3 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0020 ppm	0.0120 ppm	0.2715 ppm	0.0934 ppm	295.1515 ppm	16.9937 ppm	0.0930 ppm
Concentration per Run 1	0.0020 ppm	0.0121 ppm	0.2715 ppm	0.0925 ppm	288.3925 ppm	16.9557 ppm	0.0911 ppm
Concentration per Run 2	0.0020 ppm	0.0120 ppm	0.2708 ppm	0.0944 ppm	299.5453 ppm	16.9016 ppm	0.0920 ppm
Concentration per Run 3	0.0021 ppm	0.0120 ppm	0.2723 ppm	0.0932 ppm	297.5168 ppm	17.1237 ppm	0.0958 ppm
Concentration RSD	2.7 %	0.6 %	0.3 %	1.0 %	2.0 %	0.7 %	2.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.4369 ppm	0.2489 ppm	0.0023 ppm	0.2686 ppm	0.0485 ppm	0.0914 ppm	-0.0140 ppm
Concentration per Run 1	9.4584 ppm	0.2472 ppm	0.0021 ppm	0.2628 ppm	0.0480 ppm	0.0917 ppm	-0.0140 ppm
Concentration per Run 2	9.3591 ppm	0.2494 ppm	0.0023 ppm	0.2690 ppm	0.0492 ppm	0.0906 ppm	-0.0139 ppm
Concentration per Run 3	9.4932 ppm	0.2501 ppm	0.0025 ppm	0.2740 ppm	0.0483 ppm	0.0917 ppm	-0.0139 ppm
Concentration RSD	0.7 %	0.6 %	7.2 %	2.1 %	1.2 %	0.7 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0051 ppm	2.3578 ppm	0.0064 ppm	0.0555 ppm	0.7416 ppm	0.0005 ppm	0.6202 ppm
Concentration per Run 1	0.0061 ppm	2.3541 ppm	0.0063 ppm	0.0546 ppm	0.7389 ppm	0.0010 ppm	0.6194 ppm
Concentration per Run 2	0.0029 ppm	2.3513 ppm	0.0065 ppm	0.0556 ppm	0.7426 ppm	0.0018 ppm	0.6206 ppm
Concentration per Run 3	0.0062 ppm	2.3679 ppm	0.0064 ppm	0.0564 ppm	0.7433 ppm	-0.0014 ppm	0.6208 ppm
Concentration RSD	36.7 %	0.4 %	1.7 %	1.6 %	0.3 %	331.5 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2026 ppm	107.1936 %	103.9291 %	99.6330 %	102.6474 %	83.9331 %	100.5559 %
Concentration per Run 1	0.2033 ppm	107.2679 %	103.5871 %	99.8840 %	104.4163 %	84.0483 %	100.7384 %
Concentration per Run 2	0.2022 ppm	107.0381 %	104.0550 %	99.4551 %	102.2497 %	84.1784 %	100.2981 %
Concentration per Run 3	0.2023 ppm	107.2748 %	104.1454 %	99.5601 %	101.2763 %	83.5727 %	100.6314 %
Concentration RSD	0.3 %	0.1 %	0.3 %	0.2 %	1.6 %	0.4 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453831-03D2 WG1975353
Analysis started at: 9/26/2024 10:43:10 PM
Comments <Comment>
Rack: 2
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	80.9338 ppm	2.1832 ppm	0.0381 ppm	0.2181 ppm	0.0025 ppm	23.4204 ppm
Concentration per Run 1	-0.0001 ppm	79.9759 ppm	2.1809 ppm	0.0378 ppm	0.2157 ppm	0.0025 ppm	23.3233 ppm
Concentration per Run 2	-0.0001 ppm	81.6622 ppm	2.1821 ppm	0.0381 ppm	0.2205 ppm	0.0025 ppm	23.5880 ppm
Concentration per Run 3	0.0002 ppm	81.1634 ppm	2.1866 ppm	0.0384 ppm	0.2181 ppm	0.0025 ppm	23.3499 ppm
Concentration RSD	5,696.3 %	1.1 %	0.1 %	0.8 %	1.1 %	1.1 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0017 ppm	0.0595 ppm	0.2985 ppm	0.4694 ppm	233.7272 ppm	6.4875 ppm	0.0662 ppm
Concentration per Run 1	0.0017 ppm	0.0595 ppm	0.2970 ppm	0.4684 ppm	232.0545 ppm	6.4630 ppm	0.0646 ppm
Concentration per Run 2	0.0017 ppm	0.0595 ppm	0.2991 ppm	0.4701 ppm	235.8296 ppm	6.4211 ppm	0.0663 ppm
Concentration per Run 3	0.0017 ppm	0.0594 ppm	0.2995 ppm	0.4699 ppm	233.2973 ppm	6.5784 ppm	0.0677 ppm
Concentration RSD	1.7 %	0.1 %	0.4 %	0.2 %	0.8 %	1.3 %	2.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	35.9115 ppm	1.1414 ppm	0.0019 ppm	3.0593 ppm	0.1227 ppm	0.2570 ppm	-0.0039 ppm
Concentration per Run 1	35.7559 ppm	1.1360 ppm	0.0020 ppm	3.0033 ppm	0.1227 ppm	0.2578 ppm	-0.0036 ppm
Concentration per Run 2	35.9141 ppm	1.1511 ppm	0.0019 ppm	3.0674 ppm	0.1229 ppm	0.2571 ppm	-0.0038 ppm
Concentration per Run 3	36.0646 ppm	1.1371 ppm	0.0018 ppm	3.1072 ppm	0.1224 ppm	0.2562 ppm	-0.0043 ppm
Concentration RSD	0.4 %	0.7 %	5.6 %	1.7 %	0.2 %	0.3 %	9.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0006 ppm	1.4150 ppm	0.0110 ppm	0.1501 ppm	1.4497 ppm	-0.0003 ppm	0.5009 ppm
Concentration per Run 1	-0.0002 ppm	1.4148 ppm	0.0111 ppm	0.1485 ppm	1.4419 ppm	0.0000 ppm	0.4996 ppm
Concentration per Run 2	0.0019 ppm	1.4134 ppm	0.0106 ppm	0.1517 ppm	1.4561 ppm	-0.0003 ppm	0.5012 ppm
Concentration per Run 3	0.0002 ppm	1.4169 ppm	0.0113 ppm	0.1500 ppm	1.4511 ppm	-0.0005 ppm	0.5018 ppm
Concentration RSD	174.9 %	0.1 %	3.4 %	1.1 %	0.5 %	95.9 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2727 ppm	113.0484 %	107.1618 %	99.9486 %	99.3726 %	79.0283 %	95.1910 %
Concentration per Run 1	0.2735 ppm	112.7159 %	107.2293 %	100.4859 %	100.2665 %	79.2741 %	95.5990 %
Concentration per Run 2	0.2730 ppm	113.2389 %	107.3268 %	100.2518 %	98.7230 %	79.1735 %	95.0665 %
Concentration per Run 3	0.2715 ppm	113.1903 %	106.9292 %	99.1082 %	99.1284 %	78.6372 %	94.9077 %
Concentration RSD	0.4 %	0.3 %	0.2 %	0.7 %	0.8 %	0.4 %	0.4 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453831-04D2 WG1975353
Analysis started at: 9/26/2024 10:49:26 PM
Comments <Comment>
Rack: 2
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	57.0248 ppm	0.6271 ppm	0.0224 ppm	0.2170 ppm	0.0032 ppm	13.1903 ppm
Concentration per Run 1	0.0002 ppm	57.1505 ppm	0.6280 ppm	0.0229 ppm	0.2166 ppm	0.0032 ppm	13.0985 ppm
Concentration per Run 2	0.0002 ppm	57.1461 ppm	0.6250 ppm	0.0221 ppm	0.2179 ppm	0.0032 ppm	13.2967 ppm
Concentration per Run 3	0.0000 ppm	56.7778 ppm	0.6282 ppm	0.0221 ppm	0.2164 ppm	0.0031 ppm	13.1756 ppm
Concentration RSD	129.9 %	0.4 %	0.3 %	2.1 %	0.4 %	1.0 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0014 ppm	0.0244 ppm	0.1962 ppm	0.4817 ppm	206.1401 ppm	4.8901 ppm	0.0475 ppm
Concentration per Run 1	0.0014 ppm	0.0245 ppm	0.1963 ppm	0.4832 ppm	204.9770 ppm	4.9759 ppm	0.0481 ppm
Concentration per Run 2	0.0013 ppm	0.0244 ppm	0.1967 ppm	0.4781 ppm	207.7401 ppm	4.8253 ppm	0.0467 ppm
Concentration per Run 3	0.0014 ppm	0.0243 ppm	0.1956 ppm	0.4837 ppm	205.7031 ppm	4.8693 ppm	0.0477 ppm
Concentration RSD	3.6 %	0.4 %	0.3 %	0.7 %	0.7 %	1.6 %	1.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.3074 ppm	0.5650 ppm	0.0029 ppm	1.3175 ppm	0.0603 ppm	0.5346 ppm	0.0020 ppm
Concentration per Run 1	13.2730 ppm	0.5600 ppm	0.0029 ppm	1.3354 ppm	0.0597 ppm	0.5339 ppm	0.0015 ppm
Concentration per Run 2	13.3082 ppm	0.5681 ppm	0.0029 ppm	1.3090 ppm	0.0604 ppm	0.5355 ppm	0.0027 ppm
Concentration per Run 3	13.3409 ppm	0.5668 ppm	0.0029 ppm	1.3082 ppm	0.0609 ppm	0.5344 ppm	0.0016 ppm
Concentration RSD	0.3 %	0.8 %	0.5 %	1.2 %	1.0 %	0.1 %	34.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0048 ppm	1.8491 ppm	0.0218 ppm	0.1078 ppm	0.7378 ppm	-0.0001 ppm	0.3987 ppm
Concentration per Run 1	0.0041 ppm	1.8496 ppm	0.0217 ppm	0.1078 ppm	0.7378 ppm	0.0002 ppm	0.3996 ppm
Concentration per Run 2	0.0062 ppm	1.8490 ppm	0.0216 ppm	0.1081 ppm	0.7384 ppm	0.0001 ppm	0.3979 ppm
Concentration per Run 3	0.0042 ppm	1.8487 ppm	0.0219 ppm	0.1075 ppm	0.7373 ppm	-0.0006 ppm	0.3984 ppm
Concentration RSD	24.6 %	0.0 %	0.6 %	0.3 %	0.1 %	545.3 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2108 ppm	116.6050 %	111.9083 %	104.4764 %	96.6296 %	80.9064 %	94.3413 %
Concentration per Run 1	0.2102 ppm	117.4200 %	111.9186 %	104.4212 %	97.4286 %	81.0253 %	94.2042 %
Concentration per Run 2	0.2116 ppm	116.2711 %	111.9815 %	104.7258 %	95.9445 %	80.9614 %	94.5285 %
Concentration per Run 3	0.2107 ppm	116.1239 %	111.8248 %	104.2823 %	96.5156 %	80.7325 %	94.2913 %
Concentration RSD	0.3 %	0.6 %	0.1 %	0.2 %	0.8 %	0.2 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453831-05D2 WG1975353
Analysis started at: 9/26/2024 10:55:43 PM
Comments <Comment>
Rack: 2
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	60.4470 ppm	0.1741 ppm	0.0583 ppm	0.1625 ppm	0.0048 ppm	7.8070 ppm
Concentration per Run 1	-0.0005 ppm	60.0178 ppm	0.1751 ppm	0.0584 ppm	0.1613 ppm	0.0047 ppm	7.7888 ppm
Concentration per Run 2	-0.0007 ppm	60.7673 ppm	0.1736 ppm	0.0583 ppm	0.1631 ppm	0.0048 ppm	7.7885 ppm
Concentration per Run 3	-0.0006 ppm	60.5558 ppm	0.1735 ppm	0.0582 ppm	0.1630 ppm	0.0047 ppm	7.8438 ppm
Concentration RSD	21.1 %	0.6 %	0.5 %	0.2 %	0.6 %	0.3 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0033 ppm	0.0140 ppm	0.3603 ppm	0.1230 ppm	410.7835 [SIC 500]	12.2137 ppm	0.0319 ppm
Concentration per Run 1	0.0033 ppm	0.0140 ppm	0.3620 ppm	0.1224 ppm	408.4140 ppm	12.0845 ppm	0.0314 ppm
Concentration per Run 2	0.0032 ppm	0.0140 ppm	0.3587 ppm	0.1225 ppm	409.8918 ppm	12.4372 ppm	0.0322 ppm
Concentration per Run 3	0.0034 ppm	0.0139 ppm	0.3602 ppm	0.1240 ppm	414.0447 ppm	12.1195 ppm	0.0321 ppm
Concentration RSD	3.4 %	0.6 %	0.5 %	0.7 %	0.7 %	1.6 %	1.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	7.4327 ppm	0.2672 ppm	-0.0005 ppm	0.3897 ppm	0.0795 ppm	0.1649 ppm	-0.0177 ppm
Concentration per Run 1	7.4726 ppm	0.2669 ppm	-0.0004 ppm	0.3863 ppm	0.0805 ppm	0.1647 ppm	-0.0180 ppm
Concentration per Run 2	7.4276 ppm	0.2661 ppm	-0.0003 ppm	0.3950 ppm	0.0795 ppm	0.1649 ppm	-0.0178 ppm
Concentration per Run 3	7.3980 ppm	0.2688 ppm	-0.0008 ppm	0.3877 ppm	0.0787 ppm	0.1652 ppm	-0.0174 ppm
Concentration RSD	0.5 %	0.5 %	47.2 %	1.2 %	1.1 %	0.2 %	1.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0010 ppm	2.4688 ppm	0.0082 ppm	0.0558 ppm	0.5931 ppm	0.0000 ppm	0.6695 ppm
Concentration per Run 1	-0.0028 ppm	2.4693 ppm	0.0079 ppm	0.0555 ppm	0.5945 ppm	0.0011 ppm	0.6711 ppm
Concentration per Run 2	0.0014 ppm	2.4710 ppm	0.0080 ppm	0.0559 ppm	0.5901 ppm	-0.0013 ppm	0.6667 ppm
Concentration per Run 3	-0.0018 ppm	2.4662 ppm	0.0087 ppm	0.0560 ppm	0.5948 ppm	0.0003 ppm	0.6709 ppm
Concentration RSD	208.5 %	0.1 %	5.5 %	0.5 %	0.4 %	155,187.7 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2889 ppm	105.8468 %	101.2364 %	95.6813 %	98.9571 %	78.9114 %	96.1143 %
Concentration per Run 1	0.2886 ppm	106.4643 %	101.2334 %	95.9547 %	99.9080 %	78.9420 %	96.1475 %
Concentration per Run 2	0.2892 ppm	105.8549 %	101.2584 %	95.4500 %	99.0518 %	78.7358 %	96.5415 %
Concentration per Run 3	0.2891 ppm	105.2211 %	101.2173 %	95.6391 %	97.9115 %	79.0565 %	95.6539 %
Concentration RSD	0.1 %	0.6 %	0.0 %	0.3 %	1.0 %	0.2 %	0.5 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453831-06D2 WG1975353
Analysis started at: 9/26/2024 11:02:01 PM
Comments <Comment>
Rack: 2
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	70.5855 ppm	0.1089 ppm	0.0241 ppm	0.3512 ppm	0.0021 ppm	21.1266 ppm
Concentration per Run 1	0.0003 ppm	70.1099 ppm	0.1095 ppm	0.0241 ppm	0.3475 ppm	0.0020 ppm	20.7265 ppm
Concentration per Run 2	0.0005 ppm	70.5399 ppm	0.1078 ppm	0.0243 ppm	0.3515 ppm	0.0021 ppm	21.2780 ppm
Concentration per Run 3	0.0003 ppm	71.1067 ppm	0.1094 ppm	0.0239 ppm	0.3545 ppm	0.0021 ppm	21.3752 ppm
Concentration RSD	27.2 %	0.7 %	0.9 %	0.9 %	1.0 %	1.3 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0014 ppm	0.0515 ppm	0.2091 ppm	0.4774 ppm	175.5615 ppm	6.0309 ppm	0.0573 ppm
Concentration per Run 1	0.0013 ppm	0.0514 ppm	0.2074 ppm	0.4803 ppm	172.4931 ppm	6.1900 ppm	0.0585 ppm
Concentration per Run 2	0.0014 ppm	0.0516 ppm	0.2096 ppm	0.4759 ppm	177.4099 ppm	5.9391 ppm	0.0565 ppm
Concentration per Run 3	0.0015 ppm	0.0514 ppm	0.2103 ppm	0.4761 ppm	176.7814 ppm	5.9637 ppm	0.0569 ppm
Concentration RSD	4.2 %	0.2 %	0.7 %	0.5 %	1.5 %	2.3 %	1.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	28.1871 ppm	1.0066 ppm	0.0019 ppm	2.9970 ppm	0.1126 ppm	0.4644 ppm	-0.0029 ppm
Concentration per Run 1	28.0443 ppm	0.9922 ppm	0.0017 ppm	3.0341 ppm	0.1123 ppm	0.4641 ppm	-0.0033 ppm
Concentration per Run 2	28.1766 ppm	1.0131 ppm	0.0020 ppm	2.9597 ppm	0.1127 ppm	0.4647 ppm	-0.0018 ppm
Concentration per Run 3	28.3404 ppm	1.0145 ppm	0.0021 ppm	2.9971 ppm	0.1128 ppm	0.4644 ppm	-0.0036 ppm
Concentration RSD	0.5 %	1.2 %	11.6 %	1.2 %	0.2 %	0.1 %	32.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	2.2751 ppm	0.0295 ppm	0.2461 ppm	1.2804 ppm	-0.0006 ppm	0.4309 ppm
Concentration per Run 1	0.0028 ppm	2.2779 ppm	0.0299 ppm	0.2436 ppm	1.2751 ppm	0.0001 ppm	0.4292 ppm
Concentration per Run 2	-0.0005 ppm	2.2737 ppm	0.0296 ppm	0.2463 ppm	1.2825 ppm	-0.0001 ppm	0.4313 ppm
Concentration per Run 3	0.0009 ppm	2.2736 ppm	0.0291 ppm	0.2484 ppm	1.2835 ppm	-0.0018 ppm	0.4322 ppm
Concentration RSD	155.1 %	0.1 %	1.5 %	1.0 %	0.4 %	175.8 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2873 ppm	110.6421 %	105.5520 %	98.9115 %	97.5751 %	79.9505 %	94.4919 %
Concentration per Run 1	0.2867 ppm	111.5471 %	105.6488 %	98.6648 %	99.6327 %	79.7617 %	94.5158 %
Concentration per Run 2	0.2874 ppm	110.3058 %	105.6417 %	99.0111 %	96.7636 %	79.9864 %	94.5522 %
Concentration per Run 3	0.2877 ppm	110.0734 %	105.3655 %	99.0586 %	96.3291 %	80.1035 %	94.4076 %
Concentration RSD	0.2 %	0.7 %	0.2 %	0.2 %	1.8 %	0.2 %	0.1 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453831-07D2 WG1975353
Analysis started at: 9/26/2024 11:08:19 PM
Comments <Comment>
Rack: 2
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	86.8884 ppm	0.1682 ppm	0.0343 ppm	0.3371 ppm	0.0059 ppm	70.1413 ppm
Concentration per Run 1	-0.0002 ppm	85.6402 ppm	0.1678 ppm	0.0342 ppm	0.3323 ppm	0.0058 ppm	69.2138 ppm
Concentration per Run 2	-0.0001 ppm	87.1646 ppm	0.1680 ppm	0.0348 ppm	0.3386 ppm	0.0059 ppm	70.7337 ppm
Concentration per Run 3	-0.0004 ppm	87.8604 ppm	0.1688 ppm	0.0339 ppm	0.3405 ppm	0.0059 ppm	70.4763 ppm
Concentration RSD	66.8 %	1.3 %	0.3 %	1.3 %	1.3 %	1.5 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0015 ppm	0.0535 ppm	0.3760 ppm	0.4550 ppm	244.6635 ppm	7.0108 ppm	0.0509 ppm
Concentration per Run 1	0.0016 ppm	0.0536 ppm	0.3768 ppm	0.4548 ppm	239.2833 ppm	7.0720 ppm	0.0504 ppm
Concentration per Run 2	0.0014 ppm	0.0535 ppm	0.3766 ppm	0.4540 ppm	249.2753 ppm	6.9168 ppm	0.0504 ppm
Concentration per Run 3	0.0016 ppm	0.0535 ppm	0.3744 ppm	0.4563 ppm	245.4319 ppm	7.0437 ppm	0.0517 ppm
Concentration RSD	6.1 %	0.1 %	0.3 %	0.3 %	2.1 %	1.2 %	1.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	16.1158 ppm	1.2578 ppm	0.0031 ppm	1.3809 ppm	0.0945 ppm	0.2132 ppm	-0.0094 ppm
Concentration per Run 1	16.1236 ppm	1.2423 ppm	0.0032 ppm	1.3665 ppm	0.0946 ppm	0.2123 ppm	-0.0089 ppm
Concentration per Run 2	16.0911 ppm	1.2664 ppm	0.0030 ppm	1.3703 ppm	0.0948 ppm	0.2135 ppm	-0.0097 ppm
Concentration per Run 3	16.1326 ppm	1.2647 ppm	0.0031 ppm	1.4058 ppm	0.0941 ppm	0.2137 ppm	-0.0096 ppm
Concentration RSD	0.1 %	1.1 %	2.8 %	1.6 %	0.4 %	0.4 %	4.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0015 ppm	2.7027 ppm	0.0227 ppm	0.4962 ppm	1.2683 ppm	-0.0005 ppm	0.3664 ppm
Concentration per Run 1	0.0007 ppm	2.6999 ppm	0.0221 ppm	0.4896 ppm	1.2708 ppm	-0.0012 ppm	0.3665 ppm
Concentration per Run 2	0.0013 ppm	2.7046 ppm	0.0230 ppm	0.4980 ppm	1.2666 ppm	0.0005 ppm	0.3676 ppm
Concentration per Run 3	0.0026 ppm	2.7036 ppm	0.0230 ppm	0.5010 ppm	1.2675 ppm	-0.0008 ppm	0.3651 ppm
Concentration RSD	62.6 %	0.1 %	2.3 %	1.2 %	0.2 %	183.2 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2807 ppm	117.6203 %	112.5696 %	105.1972 %	97.8342 %	77.4344 %	94.4531 %
Concentration per Run 1	0.2815 ppm	117.8035 %	112.8390 %	105.5196 %	99.6072 %	77.4711 %	94.5690 %
Concentration per Run 2	0.2799 ppm	117.4903 %	112.6265 %	104.9484 %	96.9945 %	77.3754 %	94.4968 %
Concentration per Run 3	0.2807 ppm	117.5670 %	112.2433 %	105.1238 %	96.9010 %	77.4567 %	94.2937 %
Concentration RSD	0.3 %	0.1 %	0.3 %	0.3 %	1.6 %	0.1 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453831-08D2 WG1975353
Analysis started at: 9/26/2024 11:14:37 PM
Comments <Comment>
Rack: 2
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0007 ppm	83.8340 ppm	0.6945 ppm	0.0596 ppm	0.3147 ppm	0.0037 ppm	69.7875 ppm
Concentration per Run 1	0.0008 ppm	83.0535 ppm	0.6947 ppm	0.0594 ppm	0.3120 ppm	0.0037 ppm	68.9922 ppm
Concentration per Run 2	0.0007 ppm	84.3051 ppm	0.6967 ppm	0.0596 ppm	0.3160 ppm	0.0037 ppm	70.1054 ppm
Concentration per Run 3	0.0006 ppm	84.1432 ppm	0.6923 ppm	0.0596 ppm	0.3161 ppm	0.0038 ppm	70.2649 ppm
Concentration RSD	12.9 %	0.8 %	0.3 %	0.2 %	0.8 %	1.4 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0029 ppm	0.0557 ppm	0.2885 ppm	0.5379 ppm	240.7357 ppm	7.1893 ppm	0.0764 ppm
Concentration per Run 1	0.0029 ppm	0.0558 ppm	0.2903 ppm	0.5365 ppm	236.0521 ppm	7.2213 ppm	0.0762 ppm
Concentration per Run 2	0.0029 ppm	0.0556 ppm	0.2858 ppm	0.5369 ppm	242.8260 ppm	7.1569 ppm	0.0765 ppm
Concentration per Run 3	0.0029 ppm	0.0557 ppm	0.2893 ppm	0.5403 ppm	243.3290 ppm	7.1898 ppm	0.0767 ppm
Concentration RSD	0.6 %	0.2 %	0.8 %	0.4 %	1.7 %	0.4 %	0.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	30.3708 ppm	1.0872 ppm	0.0032 ppm	3.2209 ppm	0.1327 ppm	0.7074 ppm	-0.0031 ppm
Concentration per Run 1	30.5170 ppm	1.0752 ppm	0.0031 ppm	3.2093 ppm	0.1326 ppm	0.7073 ppm	-0.0024 ppm
Concentration per Run 2	30.2994 ppm	1.0925 ppm	0.0032 ppm	3.2310 ppm	0.1329 ppm	0.7072 ppm	-0.0035 ppm
Concentration per Run 3	30.2961 ppm	1.0938 ppm	0.0032 ppm	3.2222 ppm	0.1326 ppm	0.7078 ppm	-0.0035 ppm
Concentration RSD	0.4 %	1.0 %	1.5 %	0.3 %	0.1 %	0.0 %	20.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	2.9756 ppm	0.0283 ppm	0.5459 ppm	1.5956 ppm	-0.0007 ppm	0.4640 ppm
Concentration per Run 1	0.0005 ppm	2.9763 ppm	0.0281 ppm	0.5401 ppm	1.6030 ppm	-0.0004 ppm	0.4656 ppm
Concentration per Run 2	0.0020 ppm	2.9719 ppm	0.0282 ppm	0.5484 ppm	1.5821 ppm	-0.0007 ppm	0.4608 ppm
Concentration per Run 3	0.0004 ppm	2.9787 ppm	0.0287 ppm	0.5491 ppm	1.6017 ppm	-0.0009 ppm	0.4656 ppm
Concentration RSD	90.5 %	0.1 %	1.2 %	0.9 %	0.7 %	37.7 %	0.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.6857 ppm	113.7309 %	107.8400 %	100.5235 %	98.0492 %	76.4424 %	94.1771 %
Concentration per Run 1	0.6849 ppm	114.6132 %	108.0685 %	100.3642 %	99.6206 %	76.4086 %	94.1689 %
Concentration per Run 2	0.6875 ppm	113.1725 %	107.5933 %	100.3483 %	97.1300 %	76.4741 %	94.5212 %
Concentration per Run 3	0.6847 ppm	113.4071 %	107.8584 %	100.8579 %	97.3971 %	76.4444 %	93.8411 %
Concentration RSD	0.2 %	0.7 %	0.2 %	0.3 %	1.4 %	0.0 %	0.4 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453831-09D2 WG1975353
Analysis started at: 9/26/2024 11:20:53 PM
Comments <Comment>
Rack: 2
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	82.6162 ppm	0.2119 ppm	0.4111 ppm	0.3600 ppm	0.0058 ppm	61.5334 ppm
Concentration per Run 1	0.0005 ppm	82.0857 ppm	0.2103 ppm	0.4109 ppm	0.3578 ppm	0.0058 ppm	60.4245 ppm
Concentration per Run 2	0.0004 ppm	82.7132 ppm	0.2131 ppm	0.4109 ppm	0.3607 ppm	0.0058 ppm	62.0596 ppm
Concentration per Run 3	0.0005 ppm	83.0497 ppm	0.2122 ppm	0.4116 ppm	0.3615 ppm	0.0058 ppm	62.1163 ppm
Concentration RSD	7.0 %	0.6 %	0.7 %	0.1 %	0.5 %	0.8 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0024 ppm	0.0961 ppm	0.4815 ppm	2.3687 ppm	239.0134 ppm	5.2963 ppm	0.0753 ppm
Concentration per Run 1	0.0025 ppm	0.0961 ppm	0.4854 ppm	2.3633 ppm	234.1199 ppm	5.3344 ppm	0.0763 ppm
Concentration per Run 2	0.0023 ppm	0.0958 ppm	0.4796 ppm	2.3754 ppm	241.9320 ppm	5.2500 ppm	0.0747 ppm
Concentration per Run 3	0.0024 ppm	0.0964 ppm	0.4794 ppm	2.3673 ppm	240.9884 ppm	5.3043 ppm	0.0750 ppm
Concentration RSD	4.7 %	0.3 %	0.7 %	0.3 %	1.8 %	0.8 %	1.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	39.4411 ppm	1.6787 ppm	0.0052 ppm	2.6656 ppm	0.1952 ppm	0.8205 ppm	-0.0003 ppm
Concentration per Run 1	39.5851 ppm	1.6551 ppm	0.0053 ppm	2.6776 ppm	0.1941 ppm	0.8188 ppm	0.0005 ppm
Concentration per Run 2	39.3255 ppm	1.6896 ppm	0.0053 ppm	2.6449 ppm	0.1954 ppm	0.8204 ppm	-0.0013 ppm
Concentration per Run 3	39.4128 ppm	1.6913 ppm	0.0051 ppm	2.6742 ppm	0.1961 ppm	0.8221 ppm	0.0000 ppm
Concentration RSD	0.3 %	1.2 %	2.4 %	0.7 %	0.5 %	0.2 %	363.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	4.8739 ppm	0.0580 ppm	0.3405 ppm	2.0873 ppm	0.0002 ppm	0.4979 ppm
Concentration per Run 1	0.0004 ppm	4.8673 ppm	0.0573 ppm	0.3383 ppm	2.0947 ppm	-0.0005 ppm	0.4992 ppm
Concentration per Run 2	-0.0021 ppm	4.8712 ppm	0.0581 ppm	0.3413 ppm	2.0847 ppm	0.0021 ppm	0.4977 ppm
Concentration per Run 3	-0.0002 ppm	4.8831 ppm	0.0586 ppm	0.3418 ppm	2.0825 ppm	-0.0011 ppm	0.4967 ppm
Concentration RSD	207.3 %	0.2 %	1.1 %	0.5 %	0.3 %	845.7 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.4348 ppm	117.8653 %	112.2095 %	105.1694 %	98.8181 %	77.2657 %	95.2598 %
Concentration per Run 1	1.4311 ppm	119.7195 %	112.1837 %	105.1623 %	100.8115 %	77.2234 %	95.0915 %
Concentration per Run 2	1.4341 ppm	117.3370 %	112.1493 %	105.1466 %	98.1721 %	77.3130 %	95.1167 %
Concentration per Run 3	1.4391 ppm	116.5395 %	112.2956 %	105.1992 %	97.4706 %	77.2607 %	95.5713 %
Concentration RSD	0.3 %	1.4 %	0.1 %	0.0 %	1.8 %	0.1 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453831-10D2 WG1975353
Analysis started at: 9/26/2024 11:27:08 PM
Comments <Comment>
Rack: 2
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	86.7772 ppm	0.5175 ppm	0.1512 ppm	0.3383 ppm	0.0043 ppm	97.3642 ppm
Concentration per Run 1	0.0006 ppm	85.6425 ppm	0.5171 ppm	0.1512 ppm	0.3344 ppm	0.0043 ppm	96.7256 ppm
Concentration per Run 2	0.0003 ppm	87.3970 ppm	0.5153 ppm	0.1503 ppm	0.3405 ppm	0.0044 ppm	98.4448 ppm
Concentration per Run 3	0.0006 ppm	87.2922 ppm	0.5201 ppm	0.1521 ppm	0.3400 ppm	0.0044 ppm	96.9221 ppm
Concentration RSD	31.4 %	1.1 %	0.5 %	0.6 %	1.0 %	1.0 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0026 ppm	0.0618 ppm	0.3568 ppm	0.8721 ppm	248.4592 ppm	6.7772 ppm	0.0786 ppm
Concentration per Run 1	0.0025 ppm	0.0620 ppm	0.3574 ppm	0.8777 ppm	247.2343 ppm	6.6925 ppm	0.0764 ppm
Concentration per Run 2	0.0025 ppm	0.0614 ppm	0.3536 ppm	0.8686 ppm	251.3546 ppm	6.7351 ppm	0.0787 ppm
Concentration per Run 3	0.0027 ppm	0.0619 ppm	0.3594 ppm	0.8700 ppm	246.7889 ppm	6.9038 ppm	0.0808 ppm
Concentration RSD	3.8 %	0.5 %	0.8 %	0.6 %	1.0 %	1.6 %	2.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	30.8633 ppm	1.4292 ppm	0.0020 ppm	2.8425 ppm	0.1377 ppm	0.6897 ppm	-0.0066 ppm
Concentration per Run 1	30.8897 ppm	1.4174 ppm	0.0021 ppm	2.7778 ppm	0.1381 ppm	0.6878 ppm	-0.0079 ppm
Concentration per Run 2	30.7209 ppm	1.4423 ppm	0.0020 ppm	2.8569 ppm	0.1370 ppm	0.6889 ppm	-0.0058 ppm
Concentration per Run 3	30.9794 ppm	1.4278 ppm	0.0019 ppm	2.8928 ppm	0.1381 ppm	0.6925 ppm	-0.0061 ppm
Concentration RSD	0.4 %	0.9 %	4.3 %	2.1 %	0.5 %	0.4 %	17.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0006 ppm	4.1536 ppm	0.0276 ppm	0.5446 ppm	2.0125 ppm	0.0003 ppm	0.4961 ppm
Concentration per Run 1	0.0018 ppm	4.1456 ppm	0.0274 ppm	0.5386 ppm	2.0176 ppm	0.0004 ppm	0.4981 ppm
Concentration per Run 2	0.0007 ppm	4.1467 ppm	0.0279 ppm	0.5477 ppm	2.0011 ppm	-0.0010 ppm	0.4927 ppm
Concentration per Run 3	-0.0008 ppm	4.1686 ppm	0.0276 ppm	0.5475 ppm	2.0187 ppm	0.0016 ppm	0.4975 ppm
Concentration RSD	228.2 %	0.3 %	1.0 %	1.0 %	0.5 %	400.3 %	0.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.6556 ppm	115.0070 %	109.9543 %	102.1243 %	97.3360 %	74.9444 %	94.2836 %
Concentration per Run 1	0.6532 ppm	115.4445 %	109.6779 %	102.5713 %	98.4704 %	75.1048 %	93.9049 %
Concentration per Run 2	0.6558 ppm	114.0733 %	110.1226 %	102.2414 %	95.9374 %	75.0157 %	94.6475 %
Concentration per Run 3	0.6578 ppm	115.5032 %	110.0623 %	101.5602 %	97.6001 %	74.7128 %	94.2984 %
Concentration RSD	0.4 %	0.7 %	0.2 %	0.5 %	1.3 %	0.3 %	0.4 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCV
Analysis started at: 9/26/2024 11:33:25 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5023 ppm	0.5208 ppm	0.5004 ppm	0.5154 ppm	0.5240 ppm	0.5000 ppm	0.4855 ppm
Concentration per Run 1	0.5025 ppm	0.5030 ppm	0.4969 ppm	0.5122 ppm	0.5073 ppm	0.4856 ppm	0.4666 ppm
Concentration per Run 2	0.5014 ppm	0.5301 ppm	0.5033 ppm	0.5176 ppm	0.5310 ppm	0.5076 ppm	0.4966 ppm
Concentration per Run 3	0.5030 ppm	0.5293 ppm	0.5009 ppm	0.5165 ppm	0.5339 ppm	0.5069 ppm	0.4933 ppm
Recovery Percentage 1	100.460 %	104.164 %	100.076 %	103.089 %	104.810 %	100.004 %	97.100 %
Concentration RSD	0.2 %	3.0 %	0.7 %	0.6 %	2.8 %	2.5 %	3.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4883 ppm	0.4766 ppm	0.4884 ppm	0.5012 ppm	0.4910 ppm	5.4355 ppm	0.5491 ppm
Concentration per Run 1	0.4853 ppm	0.4750 ppm	0.4856 ppm	0.5033 ppm	0.4736 ppm	5.3693 ppm	0.5314 ppm
Concentration per Run 2	0.4890 ppm	0.4767 ppm	0.4902 ppm	0.4989 ppm	0.5011 ppm	5.4868 ppm	0.5571 ppm
Concentration per Run 3	0.4907 ppm	0.4782 ppm	0.4895 ppm	0.5013 ppm	0.4982 ppm	5.4503 ppm	0.5589 ppm
Recovery Percentage 1	97.668 %	95.330 %	97.684 %	100.233 %	98.194 %	108.709 %	109.830 %
Concentration RSD	0.6 %	0.3 %	0.5 %	0.4 %	3.1 %	1.1 %	2.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5015 ppm	0.4671 ppm	0.5031 ppm	10.9508 ppm	0.4748 ppm	0.4826 ppm	0.4892 ppm
Concentration per Run 1	0.4987 ppm	0.4535 ppm	0.5004 ppm	10.6232 ppm	0.4729 ppm	0.4796 ppm	0.4883 ppm
Concentration per Run 2	0.5036 ppm	0.4736 ppm	0.5043 ppm	11.1003 ppm	0.4750 ppm	0.4834 ppm	0.4893 ppm
Concentration per Run 3	0.5023 ppm	0.4743 ppm	0.5046 ppm	11.1289 ppm	0.4766 ppm	0.4847 ppm	0.4899 ppm
Recovery Percentage 1	100.307 %	93.425 %	100.615 %	109.508 %	94.967 %	96.514 %	97.834 %
Concentration RSD	0.5 %	2.5 %	0.5 %	2.6 %	0.4 %	0.5 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5125 ppm	5.3357 ppm	0.4970 ppm	0.4968 ppm	0.5059 ppm	0.5036 ppm	0.4949 ppm
Concentration per Run 1	0.5116 ppm	5.3152 ppm	0.4947 ppm	0.4814 ppm	0.5058 ppm	0.5024 ppm	0.4944 ppm
Concentration per Run 2	0.5139 ppm	5.3476 ppm	0.4972 ppm	0.5034 ppm	0.5063 ppm	0.5054 ppm	0.4957 ppm
Concentration per Run 3	0.5120 ppm	5.3444 ppm	0.4990 ppm	0.5058 ppm	0.5054 ppm	0.5030 ppm	0.4946 ppm
Recovery Percentage 1	102.499 %	101.633 %	99.391 %	99.368 %	101.173 %	100.725 %	98.981 %
Concentration RSD	0.2 %	0.3 %	0.4 %	2.7 %	0.1 %	0.3 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4907 ppm	100.3392 %	98.9021 %	95.5667 %	95.4354 %	91.4098 %	96.6034 %
Concentration per Run 1	0.4881 ppm	101.6047 %	99.0893 %	96.0087 %	98.4303 %	91.7221 %	96.5737 %
Concentration per Run 2	0.4910 ppm	99.6956 %	98.9062 %	95.1639 %	93.9706 %	91.1786 %	96.6506 %
Concentration per Run 3	0.4930 ppm	99.7174 %	98.7108 %	95.5275 %	93.9053 %	91.3285 %	96.5858 %
Recovery Percentage 1	98.143 %						
Concentration RSD	0.5 %	1.1 %	0.2 %	0.4 %	2.7 %	0.3 %	0.0 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCB
Analysis started at: 9/26/2024 11:39:28 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 1	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 2	0.0001 ppm	0.0011 ppm	0.0001 ppm	0.0013 ppm	-0.0002 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 3	0.0000 ppm	-0.0009 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	-0.0016 ppm
Recovery Percentage 1	0.047 %	0.218 %	1.663 %	3.363 %	-0.334 %	0.216 %	0.531 %
Concentration RSD	2,579.8 %	476.6 %	113.7 %	30.4 %	352.1 %	137.2 %	364.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0024 ppm	-0.0011 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0029 ppm	-0.0041 ppm	-0.0012 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0023 ppm	0.0080 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0003 ppm	0.0022 ppm	-0.0072 ppm	0.0003 ppm
Recovery Percentage 1	0.035 %	0.454 %	-0.237 %	2.440 %	4.872 %	-0.044 %	-4.829 %
Concentration RSD	1,643.9 %	166.9 %	1,262.1 %	18.6 %	15.5 %	723.5 %	157.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	-0.0002 ppm
Concentration per Run 1	-0.0019 ppm	0.0000 ppm	0.0001 ppm	-0.0011 ppm	0.0002 ppm	-0.0007 ppm	0.0005 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm	-0.0004 ppm	-0.0008 ppm
Concentration per Run 3	-0.0018 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0000 ppm	-0.0004 ppm	-0.0003 ppm
Recovery Percentage 1	-1.257 %	-0.272 %	0.037 %	-0.002 %	0.277 %	-5.112 %	-0.426 %
Concentration RSD	82.5 %	74.8 %	594.5 %	1,981.7 %	192.0 %	24.7 %	306.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0006 ppm	-0.0006 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	-0.0005 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 2	0.0013 ppm	-0.0005 ppm	-0.0009 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 3	0.0004 ppm	-0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0008 ppm	0.0002 ppm
Recovery Percentage 1	5.814 %	-0.115 %	-0.311 %	0.712 %	1.331 %	-1.376 %	1.119 %
Concentration RSD	108.5 %	23.0 %	421.5 %	20.5 %	42.5 %	181.9 %	147.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	100.8452 %	100.1198 %	96.7730 %	96.3663 %	98.3685 %	97.0457 %
Concentration per Run 1	0.0002 ppm	102.6843 %	100.0574 %	97.1491 %	99.3654 %	98.9205 %	96.9627 %
Concentration per Run 2	0.0003 ppm	100.6752 %	100.0453 %	96.7125 %	96.1043 %	98.2611 %	96.7369 %
Concentration per Run 3	0.0004 ppm	99.1761 %	100.2567 %	96.4573 %	93.6292 %	97.9241 %	97.4373 %
Recovery Percentage 1	5.912 %						
Concentration RSD	32.5 %	1.7 %	0.1 %	0.4 %	3.0 %	0.5 %	0.4 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2453935-21D2 WG1975353
Analysis started at: 9/26/2024 11:54:06 PM
Comments <Comment>
Rack: 2
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	106.1487 ppm	0.5391 ppm	0.0054 ppm	0.2568 ppm	0.0038 ppm	5.0519 ppm
Concentration per Run 1	0.0007 ppm	102.0204 ppm	0.5390 ppm	0.0054 ppm	0.2469 ppm	0.0036 ppm	4.8276 ppm
Concentration per Run 2	0.0005 ppm	108.5027 ppm	0.5400 ppm	0.0057 ppm	0.2627 ppm	0.0039 ppm	5.2123 ppm
Concentration per Run 3	0.0004 ppm	107.9231 ppm	0.5383 ppm	0.0051 ppm	0.2607 ppm	0.0039 ppm	5.1157 ppm
Concentration RSD	23.7 %	3.4 %	0.2 %	6.2 %	3.4 %	4.4 %	4.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0015 ppm	0.0199 ppm	0.0983 ppm	0.0561 ppm	74.6543 ppm	3.9546 ppm	0.0943 ppm
Concentration per Run 1	0.0015 ppm	0.0200 ppm	0.0986 ppm	0.0557 ppm	71.3029 ppm	3.8257 ppm	0.0915 ppm
Concentration per Run 2	0.0014 ppm	0.0197 ppm	0.0981 ppm	0.0568 ppm	76.8579 ppm	4.0156 ppm	0.0949 ppm
Concentration per Run 3	0.0014 ppm	0.0200 ppm	0.0983 ppm	0.0559 ppm	75.8021 ppm	4.0226 ppm	0.0966 ppm
Concentration RSD	4.0 %	0.7 %	0.2 %	1.0 %	4.0 %	2.8 %	2.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	8.8241 ppm	1.5166 ppm	0.0014 ppm	1.8608 ppm	0.0567 ppm	1.4500 ppm	-0.0025 ppm
Concentration per Run 1	8.8142 ppm	1.4509 ppm	0.0014 ppm	1.7980 ppm	0.0566 ppm	1.4512 ppm	-0.0029 ppm
Concentration per Run 2	8.8227 ppm	1.5606 ppm	0.0014 ppm	1.8798 ppm	0.0567 ppm	1.4496 ppm	-0.0026 ppm
Concentration per Run 3	8.8353 ppm	1.5383 ppm	0.0014 ppm	1.9045 ppm	0.0568 ppm	1.4493 ppm	-0.0019 ppm
Concentration RSD	0.1 %	3.8 %	2.0 %	3.0 %	0.2 %	0.1 %	19.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0042 ppm	8.0668 ppm	0.0074 ppm	0.0343 ppm	2.0326 ppm	-0.0014 ppm	0.1343 ppm
Concentration per Run 1	0.0037 ppm	8.0069 ppm	0.0075 ppm	0.0329 ppm	2.0299 ppm	-0.0015 ppm	0.1345 ppm
Concentration per Run 2	0.0055 ppm	8.0563 ppm	0.0074 ppm	0.0351 ppm	2.0416 ppm	-0.0006 ppm	0.1346 ppm
Concentration per Run 3	0.0033 ppm	8.1371 ppm	0.0072 ppm	0.0348 ppm	2.0262 ppm	-0.0021 ppm	0.1339 ppm
Concentration RSD	27.8 %	0.8 %	2.4 %	3.5 %	0.4 %	54.2 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2890 ppm	104.8156 %	102.4272 %	96.5797 %	97.2597 %	82.8614 %	95.4361 %
Concentration per Run 1	0.2908 ppm	107.3005 %	102.3098 %	97.1805 %	101.8927 %	83.2854 %	95.4495 %
Concentration per Run 2	0.2884 ppm	102.7906 %	102.6782 %	96.6975 %	94.3712 %	83.0401 %	95.2529 %
Concentration per Run 3	0.2877 ppm	104.3557 %	102.2937 %	95.8611 %	95.5153 %	82.2587 %	95.6059 %
Concentration RSD	0.6 %	2.2 %	0.2 %	0.7 %	4.2 %	0.6 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2454216-01D2 WG1975353
Analysis started at: 9/27/2024 12:00:19 AM
Comments <Comment>
Rack: 2
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	169.2263 ppm	1.8017 ppm	0.0048 ppm	0.3695 ppm	0.0059 ppm	6.8076 ppm
Concentration per Run 1	-0.0006 ppm	171.0556 ppm	1.7982 ppm	0.0051 ppm	0.3650 ppm	0.0058 ppm	6.7833 ppm
Concentration per Run 2	-0.0003 ppm	167.2839 ppm	1.8052 ppm	0.0047 ppm	0.3715 ppm	0.0059 ppm	6.8294 ppm
Concentration per Run 3	-0.0006 ppm	169.3395 ppm	1.8017 ppm	0.0045 ppm	0.3721 ppm	0.0059 ppm	6.8102 ppm
Concentration RSD	25.4 %	1.1 %	0.2 %	6.1 %	1.1 %	0.7 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0007 ppm	0.0486 ppm	0.1562 ppm	0.0876 ppm	182.3177 ppm	3.4363 ppm	0.1142 ppm
Concentration per Run 1	0.0007 ppm	0.0484 ppm	0.1543 ppm	0.0880 ppm	182.3319 ppm	3.3639 ppm	0.1117 ppm
Concentration per Run 2	0.0007 ppm	0.0486 ppm	0.1576 ppm	0.0873 ppm	182.6264 ppm	3.4729 ppm	0.1155 ppm
Concentration per Run 3	0.0007 ppm	0.0488 ppm	0.1565 ppm	0.0875 ppm	181.9949 ppm	3.4721 ppm	0.1154 ppm
Concentration RSD	4.4 %	0.4 %	1.1 %	0.4 %	0.2 %	1.8 %	1.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	15.8798 ppm	1.7629 ppm	0.0134 ppm	0.2970 ppm	0.1187 ppm	0.2104 ppm	0.0492 ppm
Concentration per Run 1	15.8307 ppm	1.7556 ppm	0.0132 ppm	0.2935 ppm	0.1185 ppm	0.2100 ppm	0.0475 ppm
Concentration per Run 2	15.9611 ppm	1.7672 ppm	0.0136 ppm	0.3006 ppm	0.1188 ppm	0.2107 ppm	0.0515 ppm
Concentration per Run 3	15.8475 ppm	1.7659 ppm	0.0134 ppm	0.2968 ppm	0.1188 ppm	0.2104 ppm	0.0485 ppm
Concentration RSD	0.4 %	0.4 %	1.6 %	1.2 %	0.2 %	0.2 %	4.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0087 ppm	1.1564 ppm	0.0063 ppm	0.0826 ppm	2.3064 ppm	0.0007 ppm	0.2676 ppm
Concentration per Run 1	0.0097 ppm	1.1574 ppm	0.0061 ppm	0.0817 ppm	2.2844 ppm	0.0011 ppm	0.2656 ppm
Concentration per Run 2	0.0073 ppm	1.1556 ppm	0.0066 ppm	0.0830 ppm	2.3163 ppm	-0.0004 ppm	0.2691 ppm
Concentration per Run 3	0.0091 ppm	1.1561 ppm	0.0062 ppm	0.0830 ppm	2.3184 ppm	0.0015 ppm	0.2681 ppm
Concentration RSD	14.4 %	0.1 %	4.0 %	0.9 %	0.8 %	144.3 %	0.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2764 ppm	125.4214 %	122.5493 %	118.4408 %	98.2378 %	79.7726 %	97.1787 %
Concentration per Run 1	0.2770 ppm	124.9979 %	122.1078 %	118.8294 %	98.8658 %	80.0882 %	97.3478 %
Concentration per Run 2	0.2768 ppm	125.5751 %	122.9603 %	117.9860 %	98.1157 %	79.5894 %	97.3440 %
Concentration per Run 3	0.2755 ppm	125.6913 %	122.5800 %	118.5070 %	97.7320 %	79.6403 %	96.8443 %
Concentration RSD	0.3 %	0.3 %	0.3 %	0.4 %	0.6 %	0.3 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: L2454216-02D2 WG1975353
Analysis started at: 9/27/2024 12:06:46 AM
Comments <Comment>
Rack: 2
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0007 ppm	173.5933 ppm	0.0409 ppm	0.0033 ppm	0.5420 ppm	0.0067 ppm	4.9130 ppm
Concentration per Run 1	-0.0006 ppm	172.6256 ppm	0.0414 ppm	0.0035 ppm	0.5373 ppm	0.0066 ppm	4.9026 ppm
Concentration per Run 2	-0.0007 ppm	175.2360 ppm	0.0418 ppm	0.0033 ppm	0.5400 ppm	0.0067 ppm	4.9424 ppm
Concentration per Run 3	-0.0007 ppm	172.9183 ppm	0.0395 ppm	0.0031 ppm	0.5486 ppm	0.0067 ppm	4.8941 ppm
Concentration RSD	5.1 %	0.8 %	3.0 %	6.1 %	1.1 %	0.6 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0007 ppm	0.0730 ppm	0.1897 ppm	0.0815 ppm	197.9697 ppm	5.2524 ppm	0.1252 ppm
Concentration per Run 1	0.0007 ppm	0.0730 ppm	0.1891 ppm	0.0812 ppm	196.9594 ppm	5.2493 ppm	0.1242 ppm
Concentration per Run 2	0.0007 ppm	0.0730 ppm	0.1899 ppm	0.0813 ppm	198.0443 ppm	5.1935 ppm	0.1232 ppm
Concentration per Run 3	0.0007 ppm	0.0731 ppm	0.1899 ppm	0.0818 ppm	198.9053 ppm	5.3145 ppm	0.1283 ppm
Concentration RSD	5.1 %	0.1 %	0.3 %	0.4 %	0.5 %	1.2 %	2.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	22.8711 ppm	4.7340 ppm	0.0036 ppm	0.5260 ppm	0.1182 ppm	0.1243 ppm	-0.0122 ppm
Concentration per Run 1	22.9600 ppm	4.7122 ppm	0.0037 ppm	0.5211 ppm	0.1191 ppm	0.1247 ppm	-0.0129 ppm
Concentration per Run 2	22.9003 ppm	4.7521 ppm	0.0034 ppm	0.5210 ppm	0.1180 ppm	0.1246 ppm	-0.0129 ppm
Concentration per Run 3	22.7531 ppm	4.7378 ppm	0.0037 ppm	0.5360 ppm	0.1176 ppm	0.1235 ppm	-0.0109 ppm
Concentration RSD	0.5 %	0.4 %	5.8 %	1.6 %	0.7 %	0.6 %	9.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0011 ppm	0.5777 ppm	0.0045 ppm	0.0648 ppm	2.0635 ppm	-0.0005 ppm	0.3112 ppm
Concentration per Run 1	0.0026 ppm	0.5828 ppm	0.0051 ppm	0.0643 ppm	2.0549 ppm	-0.0011 ppm	0.3097 ppm
Concentration per Run 2	0.0008 ppm	0.5755 ppm	0.0041 ppm	0.0646 ppm	2.0643 ppm	0.0004 ppm	0.3113 ppm
Concentration per Run 3	-0.0001 ppm	0.5748 ppm	0.0043 ppm	0.0655 ppm	2.0714 ppm	-0.0009 ppm	0.3126 ppm
Concentration RSD	125.0 %	0.8 %	12.2 %	1.0 %	0.4 %	154.3 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3221 ppm	139.9233 %	136.8324 %	131.9058 %	100.5280 %	80.5523 %	99.4599 %
Concentration per Run 1	0.3214 ppm	139.8455 %	136.6513 %	131.9400 %	101.1717 %	80.6784 %	99.8637 %
Concentration per Run 2	0.3215 ppm	139.4345 %	136.9100 %	131.8255 %	100.2439 %	80.3121 %	99.4499 %
Concentration per Run 3	0.3235 ppm	140.4898 %	136.9361 %	131.9520 %	100.1685 %	80.6666 %	99.0662 %
Concentration RSD	0.4 %	0.4 %	0.1 %	0.1 %	0.6 %	0.3 %	0.4 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCV
Analysis started at: 9/27/2024 12:13:14 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4987 ppm	0.5175 ppm	0.4983 ppm	0.5082 ppm	0.5138 ppm	0.4939 ppm	0.4801 ppm
Concentration per Run 1	0.5000 ppm	0.4983 ppm	0.4969 ppm	0.5059 ppm	0.4965 ppm	0.4798 ppm	0.4625 ppm
Concentration per Run 2	0.4969 ppm	0.5246 ppm	0.4990 ppm	0.5095 ppm	0.5221 ppm	0.5008 ppm	0.4878 ppm
Concentration per Run 3	0.4992 ppm	0.5297 ppm	0.4988 ppm	0.5092 ppm	0.5227 ppm	0.5012 ppm	0.4900 ppm
Recovery Percentage 1	99.741 %	103.510 %	99.651 %	101.641 %	102.759 %	98.787 %	96.017 %
Concentration RSD	0.3 %	3.3 %	0.2 %	0.4 %	2.9 %	2.5 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4865 ppm	0.4775 ppm	0.4909 ppm	0.4974 ppm	0.4846 ppm	5.6173 ppm	0.5422 ppm
Concentration per Run 1	0.4862 ppm	0.4773 ppm	0.4896 ppm	0.4985 ppm	0.4735 ppm	5.3956 ppm	0.5203 ppm
Concentration per Run 2	0.4848 ppm	0.4780 ppm	0.4904 ppm	0.4974 ppm	0.4903 ppm	5.6669 ppm	0.5477 ppm
Concentration per Run 3	0.4884 ppm	0.4772 ppm	0.4928 ppm	0.4962 ppm	0.4901 ppm	5.7894 ppm	0.5587 ppm
Recovery Percentage 1	97.295 %	95.501 %	98.188 %	99.472 %	96.924 %	112.346 %	108.444 %
Concentration RSD	0.4 %	0.1 %	0.3 %	0.2 %	2.0 %	3.6 %	3.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4950 ppm	0.4637 ppm	0.4997 ppm	10.8370 ppm	0.4791 ppm	0.4854 ppm	0.4863 ppm
Concentration per Run 1	0.4958 ppm	0.4503 ppm	0.4986 ppm	10.4109 ppm	0.4796 ppm	0.4852 ppm	0.4836 ppm
Concentration per Run 2	0.4913 ppm	0.4706 ppm	0.5003 ppm	10.9493 ppm	0.4799 ppm	0.4868 ppm	0.4895 ppm
Concentration per Run 3	0.4977 ppm	0.4703 ppm	0.5001 ppm	11.1507 ppm	0.4778 ppm	0.4843 ppm	0.4859 ppm
Recovery Percentage 1	98.992 %	92.745 %	99.933 %	108.370 %	95.819 %	97.086 %	97.262 %
Concentration RSD	0.7 %	2.5 %	0.2 %	3.5 %	0.2 %	0.3 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5131 ppm	5.3579 ppm	0.4901 ppm	0.4893 ppm	0.5061 ppm	0.5037 ppm	0.4946 ppm
Concentration per Run 1	0.5125 ppm	5.3413 ppm	0.4889 ppm	0.4729 ppm	0.5047 ppm	0.5021 ppm	0.4941 ppm
Concentration per Run 2	0.5141 ppm	5.3822 ppm	0.4916 ppm	0.4973 ppm	0.5067 ppm	0.5052 ppm	0.4934 ppm
Concentration per Run 3	0.5129 ppm	5.3501 ppm	0.4900 ppm	0.4977 ppm	0.5071 ppm	0.5038 ppm	0.4964 ppm
Recovery Percentage 1	102.629 %	102.055 %	98.030 %	97.859 %	101.226 %	100.742 %	98.920 %
Concentration RSD	0.2 %	0.4 %	0.3 %	2.9 %	0.3 %	0.3 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4564 ppm	99.8009 %	98.7876 %	96.5712 %	96.1927 %	91.3486 %	97.1251 %
Concentration per Run 1	0.4576 ppm	101.5744 %	98.6532 %	96.9688 %	99.2412 %	91.5415 %	97.0662 %
Concentration per Run 2	0.4542 ppm	98.9381 %	99.0139 %	96.1825 %	94.8396 %	90.9799 %	97.4213 %
Concentration per Run 3	0.4573 ppm	98.8901 %	98.6955 %	96.5623 %	94.4971 %	91.5244 %	96.8879 %
Recovery Percentage 1	91.272 %						
Concentration RSD	0.4 %	1.5 %	0.2 %	0.4 %	2.8 %	0.3 %	0.3 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCB
Analysis started at: 9/27/2024 12:19:17 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0017 ppm	-0.0006 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 1	-0.0001 ppm	0.0011 ppm	-0.0015 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0023 ppm
Concentration per Run 2	0.0003 ppm	0.0009 ppm	-0.0005 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0038 ppm
Concentration per Run 3	-0.0002 ppm	0.0031 ppm	0.0002 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0033 ppm
Recovery Percentage 1	0.121 %	1.683 %	-11.867 %	2.042 %	-0.107 %	0.414 %	3.137 %
Concentration RSD	2,943.5 %	70.7 %	147.6 %	37.7 %	337.9 %	76.7 %	23.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0028 ppm	0.0081 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0026 ppm	0.0165 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0030 ppm	0.0040 ppm	-0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0027 ppm	0.0039 ppm	-0.0007 ppm
Recovery Percentage 1	0.844 %	0.342 %	-0.414 %	0.843 %	5.504 %	0.325 %	-7.358 %
Concentration RSD	42.1 %	123.8 %	328.4 %	76.5 %	7.0 %	89.0 %	17.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0014 ppm	0.0002 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0007 ppm	0.0005 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 2	-0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0044 ppm	-0.0001 ppm	-0.0006 ppm	-0.0009 ppm
Concentration per Run 3	-0.0016 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0002 ppm	-0.0001 ppm	0.0003 ppm
Recovery Percentage 1	-0.908 %	1.367 %	-0.034 %	0.071 %	0.741 %	-3.505 %	-0.234 %
Concentration RSD	117.7 %	24.5 %	199.8 %	187.0 %	145.3 %	74.5 %	593.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0002 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0008 ppm	0.0006 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 2	-0.0007 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 3	-0.0006 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0001 ppm
Recovery Percentage 1	-1.997 %	0.115 %	-0.073 %	0.502 %	0.583 %	1.652 %	0.066 %
Concentration RSD	415.3 %	29.1 %	345.1 %	27.7 %	215.9 %	42.6 %	2,341.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	99.1376 %	100.0650 %	97.9566 %	95.8799 %	98.9293 %	98.0671 %
Concentration per Run 1	0.0002 ppm	99.5793 %	100.1440 %	97.7202 %	97.0148 %	98.4128 %	98.2247 %
Concentration per Run 2	0.0003 ppm	98.7781 %	99.8110 %	97.8893 %	95.3541 %	98.8350 %	97.9061 %
Concentration per Run 3	0.0003 ppm	99.0556 %	100.2400 %	98.2603 %	95.2708 %	99.5400 %	98.0706 %
Recovery Percentage 1	5.559 %						
Concentration RSD	14.6 %	0.4 %	0.2 %	0.3 %	1.0 %	0.6 %	0.2 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCV
Analysis started at: 9/27/2024 12:25:43 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4977 ppm	0.5098 ppm	0.4963 ppm	0.5082 ppm	0.5111 ppm	0.4939 ppm	0.4821 ppm
Concentration per Run 1	0.4986 ppm	0.4895 ppm	0.4949 ppm	0.5062 ppm	0.4914 ppm	0.4771 ppm	0.4701 ppm
Concentration per Run 2	0.4993 ppm	0.5246 ppm	0.4990 ppm	0.5087 ppm	0.5205 ppm	0.5011 ppm	0.4897 ppm
Concentration per Run 3	0.4951 ppm	0.5154 ppm	0.4950 ppm	0.5098 ppm	0.5215 ppm	0.5035 ppm	0.4866 ppm
Recovery Percentage 1	99.531 %	101.964 %	99.261 %	101.647 %	102.227 %	98.779 %	96.429 %
Concentration RSD	0.5 %	3.6 %	0.5 %	0.4 %	3.3 %	2.9 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4867 ppm	0.4776 ppm	0.4861 ppm	0.4970 ppm	0.4804 ppm	5.4878 ppm	0.5300 ppm
Concentration per Run 1	0.4863 ppm	0.4775 ppm	0.4866 ppm	0.4982 ppm	0.4637 ppm	5.2267 ppm	0.5024 ppm
Concentration per Run 2	0.4877 ppm	0.4766 ppm	0.4896 ppm	0.4987 ppm	0.4872 ppm	5.6330 ppm	0.5449 ppm
Concentration per Run 3	0.4862 ppm	0.4785 ppm	0.4820 ppm	0.4940 ppm	0.4904 ppm	5.6037 ppm	0.5426 ppm
Recovery Percentage 1	97.349 %	95.513 %	97.211 %	99.395 %	96.088 %	109.756 %	105.998 %
Concentration RSD	0.2 %	0.2 %	0.8 %	0.5 %	3.0 %	4.1 %	4.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4948 ppm	0.4649 ppm	0.4997 ppm	10.6154 ppm	0.4788 ppm	0.4851 ppm	0.4855 ppm
Concentration per Run 1	0.4980 ppm	0.4517 ppm	0.4991 ppm	10.0731 ppm	0.4786 ppm	0.4854 ppm	0.4847 ppm
Concentration per Run 2	0.4961 ppm	0.4704 ppm	0.4998 ppm	10.9295 ppm	0.4777 ppm	0.4840 ppm	0.4845 ppm
Concentration per Run 3	0.4903 ppm	0.4726 ppm	0.5001 ppm	10.8437 ppm	0.4801 ppm	0.4860 ppm	0.4872 ppm
Recovery Percentage 1	98.957 %	92.980 %	99.935 %	106.154 %	95.761 %	97.027 %	97.091 %
Concentration RSD	0.8 %	2.5 %	0.1 %	4.4 %	0.3 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5113 ppm	5.3447 ppm	0.4912 ppm	0.4866 ppm	0.5026 ppm	0.5047 ppm	0.4904 ppm
Concentration per Run 1	0.5087 ppm	5.3387 ppm	0.4901 ppm	0.4682 ppm	0.5029 ppm	0.5038 ppm	0.4914 ppm
Concentration per Run 2	0.5116 ppm	5.3290 ppm	0.4911 ppm	0.4953 ppm	0.5063 ppm	0.5032 ppm	0.4938 ppm
Concentration per Run 3	0.5136 ppm	5.3665 ppm	0.4924 ppm	0.4963 ppm	0.4986 ppm	0.5072 ppm	0.4862 ppm
Recovery Percentage 1	102.258 %	101.804 %	98.245 %	97.320 %	100.519 %	100.950 %	98.089 %
Concentration RSD	0.5 %	0.4 %	0.2 %	3.3 %	0.8 %	0.4 %	0.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4551 ppm	99.2269 %	99.0439 %	96.2089 %	95.9264 %	91.1442 %	97.4006 %
Concentration per Run 1	0.4558 ppm	99.9930 %	98.6707 %	96.4309 %	98.5661 %	91.1490 %	97.3287 %
Concentration per Run 2	0.4548 ppm	99.0056 %	98.8530 %	96.2566 %	94.8123 %	91.4156 %	96.8438 %
Concentration per Run 3	0.4548 ppm	98.6821 %	99.6081 %	95.9393 %	94.4009 %	90.8681 %	98.0292 %
Recovery Percentage 1	91.028 %						
Concentration RSD	0.1 %	0.7 %	0.5 %	0.3 %	2.4 %	0.3 %	0.6 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: CCB
Analysis started at: 9/27/2024 12:31:47 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0008 ppm	0.0004 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 1	0.0001 ppm	-0.0025 ppm	0.0005 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 2	0.0002 ppm	-0.0011 ppm	-0.0002 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 3	0.0001 ppm	0.0010 ppm	0.0010 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0030 ppm
Recovery Percentage 1	2.095 %	-0.835 %	8.484 %	2.635 %	-0.264 %	0.444 %	2.005 %
Concentration RSD	34.7 %	212.3 %	148.8 %	16.9 %	158.0 %	77.1 %	44.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0019 ppm	-0.0014 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0015 ppm	-0.0028 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0024 ppm	-0.0062 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0018 ppm	0.0047 ppm	-0.0003 ppm
Recovery Percentage 1	0.148 %	0.226 %	0.612 %	0.968 %	3.751 %	-0.058 %	-4.058 %
Concentration RSD	134.1 %	299.2 %	298.1 %	102.5 %	24.9 %	387.9 %	36.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0014 ppm	-0.0001 ppm	0.0002 ppm	-0.0006 ppm	0.0001 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 1	-0.0005 ppm	0.0000 ppm	0.0002 ppm	-0.0011 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 2	-0.0012 ppm	-0.0002 ppm	0.0002 ppm	0.0007 ppm	0.0001 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 3	-0.0027 ppm	-0.0001 ppm	0.0001 ppm	-0.0015 ppm	-0.0002 ppm	-0.0004 ppm	-0.0005 ppm
Recovery Percentage 1	-1.442 %	-0.707 %	0.309 %	-0.032 %	0.393 %	-2.971 %	-0.161 %
Concentration RSD	77.4 %	145.3 %	49.3 %	185.4 %	240.9 %	70.1 %	502.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	-0.0010 ppm	-0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 2	0.0012 ppm	-0.0005 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm	-0.0005 ppm	-0.0002 ppm
Concentration per Run 3	-0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0000 ppm
Recovery Percentage 1	0.127 %	-0.060 %	-0.290 %	0.408 %	0.296 %	0.257 %	-0.822 %
Concentration RSD	8,652.1 %	69.0 %	91.9 %	25.9 %	233.8 %	1,211.5 %	91.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	98.7078 %	98.3461 %	98.1323 %	96.0587 %	99.2652 %	96.6034 %
Concentration per Run 1	0.0005 ppm	99.4097 %	98.7171 %	98.0538 %	98.8045 %	98.9415 %	97.6214 %
Concentration per Run 2	0.0003 ppm	98.2370 %	96.5622 %	98.1545 %	94.7090 %	99.4503 %	93.8801 %
Concentration per Run 3	0.0003 ppm	98.4767 %	99.7591 %	98.1886 %	94.6625 %	99.4037 %	98.3087 %
Recovery Percentage 1	7.105 %						
Concentration RSD	30.6 %	0.6 %	1.7 %	0.1 %	2.5 %	0.3 %	2.5 %

ICP DataTrace 4

9/27/2024 9:43:48 AM

LabBook: WG1976586_09262024T4.imexp

Sample: LLOQ
Analysis started at: 9/27/2024 12:38:13 AM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0052 ppm	0.1037 ppm	0.0043 ppm	0.0332 ppm	0.0104 ppm	0.0049 ppm	0.1021 ppm
Concentration per Run 1	0.0054 ppm	0.1016 ppm	0.0052 ppm	0.0333 ppm	0.0100 ppm	0.0047 ppm	0.0959 ppm
Concentration per Run 2	0.0050 ppm	0.1044 ppm	0.0031 ppm	0.0330 ppm	0.0106 ppm	0.0050 ppm	0.1063 ppm
Concentration per Run 3	0.0052 ppm	0.1052 ppm	0.0045 ppm	0.0332 ppm	0.0106 ppm	0.0051 ppm	0.1041 ppm
Recovery Percentage 1	103.854 %	103.750 %	85.558 %	110.589 %	104.054 %	98.739 %	102.088 %
Concentration RSD	3.2 %	1.9 %	24.1 %	0.5 %	3.3 %	3.6 %	5.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0041 ppm	0.0189 ppm	0.0098 ppm	0.0108 ppm	0.0501 ppm	2.7753 ppm	0.0103 ppm
Concentration per Run 1	0.0041 ppm	0.0190 ppm	0.0098 ppm	0.0107 ppm	0.0477 ppm	2.6814 ppm	0.0098 ppm
Concentration per Run 2	0.0041 ppm	0.0188 ppm	0.0096 ppm	0.0106 ppm	0.0508 ppm	2.8035 ppm	0.0101 ppm
Concentration per Run 3	0.0041 ppm	0.0189 ppm	0.0099 ppm	0.0110 ppm	0.0519 ppm	2.8410 ppm	0.0109 ppm
Recovery Percentage 1	102.273 %	94.441 %	97.660 %	107.578 %	100.255 %	111.012 %	102.610 %
Concentration RSD	0.6 %	0.4 %	1.2 %	1.8 %	4.3 %	3.0 %	5.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1041 ppm	0.0100 ppm	0.0518 ppm	2.1912 ppm	0.0188 ppm	0.0093 ppm	0.0489 ppm
Concentration per Run 1	0.1039 ppm	0.0096 ppm	0.0518 ppm	2.1203 ppm	0.0187 ppm	0.0092 ppm	0.0492 ppm
Concentration per Run 2	0.1046 ppm	0.0102 ppm	0.0518 ppm	2.2273 ppm	0.0189 ppm	0.0095 ppm	0.0488 ppm
Concentration per Run 3	0.1038 ppm	0.0101 ppm	0.0517 ppm	2.2260 ppm	0.0187 ppm	0.0093 ppm	0.0488 ppm
Recovery Percentage 1	104.131 %	99.932 %	103.526 %	109.559 %	93.869 %	93.157 %	97.840 %
Concentration RSD	0.4 %	3.4 %	0.1 %	2.8 %	0.7 %	1.5 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0099 ppm	0.5223 ppm	0.0518 ppm	0.0101 ppm	0.0518 ppm	0.0193 ppm	0.0104 ppm
Concentration per Run 1	0.0093 ppm	0.5241 ppm	0.0518 ppm	0.0097 ppm	0.0517 ppm	0.0196 ppm	0.0102 ppm
Concentration per Run 2	0.0108 ppm	0.5223 ppm	0.0517 ppm	0.0103 ppm	0.0516 ppm	0.0192 ppm	0.0103 ppm
Concentration per Run 3	0.0097 ppm	0.5205 ppm	0.0519 ppm	0.0104 ppm	0.0521 ppm	0.0193 ppm	0.0106 ppm
Recovery Percentage 1	99.021 %	104.459 %	103.593 %	101.208 %	103.592 %	96.691 %	103.613 %
Concentration RSD	7.9 %	0.3 %	0.2 %	3.4 %	0.6 %	1.1 %	2.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0050 ppm	99.4877 %	99.9221 %	97.1077 %	97.1193 %	94.2912 %	98.6181 %
Concentration per Run 1	0.0050 ppm	101.0101 %	100.0927 %	97.0033 %	101.1469 %	94.3530 %	99.1480 %
Concentration per Run 2	0.0051 ppm	98.7947 %	99.6227 %	97.1095 %	95.5935 %	93.9902 %	98.4473 %
Concentration per Run 3	0.0051 ppm	98.6583 %	100.0509 %	97.2105 %	94.6174 %	94.5302 %	98.2589 %
Recovery Percentage 1	100.632 %						
Concentration RSD	1.4 %	1.3 %	0.3 %	0.1 %	3.6 %	0.3 %	0.5 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: Blank DHL Trace5
Analysis started at: 9/26/2024 11:27:19 AM
Comments <Comment>
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.4 %	-1.1 %	0.0 %	0.2 %	0.5 %	-1.7 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.2 %	0.0 %	0.4 %	0.0 %	-0.1 %	0.1 %	0.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.1 %	9.6 %	3.1 %	-0.1 %	-0.1 %	-0.1 %	-0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.3 %	0.1 %	0.2 %	-0.5 %	0.0 %	-0.1 %	-0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	-1.3 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: ICAL
Analysis started at: 9/26/2024 11:33:37 AM
Comments <Comment>
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9986 ppm	25.4358 ppm	0.9988 ppm	0.9996 ppm	1.0194 ppm	1.0166 ppm	10.1997 ppm
Concentration per Run 2	0.9993 ppm	24.8223 ppm	0.9978 ppm	0.9989 ppm	0.9927 ppm	0.9945 ppm	9.9327 ppm
Concentration per Run 3	1.0021 ppm	24.7420 ppm	1.0034 ppm	1.0015 ppm	0.9879 ppm	0.9889 ppm	9.8676 ppm
Concentration RSD	0.2 %	1.5 %	0.3 %	0.1 %	1.7 %	1.5 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0006 ppm	1.0003 ppm	0.9994 ppm	1.0011 ppm	25.3891 ppm	35.7432 ppm	1.0198 ppm
Concentration per Run 2	0.9985 ppm	0.9986 ppm	0.9964 ppm	0.9983 ppm	24.8460 ppm	34.7830 ppm	0.9919 ppm
Concentration per Run 3	1.0009 ppm	1.0011 ppm	1.0041 ppm	1.0006 ppm	24.7649 ppm	34.4738 ppm	0.9883 ppm
Concentration RSD	0.1 %	0.1 %	0.4 %	0.2 %	1.4 %	1.9 %	1.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9721 ppm	1.0169 ppm	0.9895 ppm	25.2340 ppm	1.0000 ppm	0.9998 ppm	0.9997 ppm
Concentration per Run 2	9.9821 ppm	0.9931 ppm	0.9992 ppm	24.8893 ppm	0.9991 ppm	0.9989 ppm	0.9978 ppm
Concentration per Run 3	10.0459 ppm	0.9900 ppm	1.0113 ppm	24.8767 ppm	1.0010 ppm	1.0013 ppm	1.0025 ppm
Concentration RSD	0.4 %	1.5 %	1.1 %	0.8 %	0.1 %	0.1 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0002 ppm	10.0006 ppm	0.9995 ppm	1.0179 ppm	0.9994 ppm	0.9976 ppm	0.9988 ppm
Concentration per Run 2	0.9984 ppm	9.9883 ppm	0.9998 ppm	0.9936 ppm	0.9995 ppm	0.9980 ppm	1.0007 ppm
Concentration per Run 3	1.0014 ppm	10.0111 ppm	1.0007 ppm	0.9884 ppm	1.0011 ppm	1.0045 ppm	1.0005 ppm
Concentration RSD	0.1 %	0.1 %	0.1 %	1.6 %	0.1 %	0.4 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.0000 ppm	96.1952 %	96.7326 %	96.7343 %	109.6327 %	97.9522 %	102.7025 %
Concentration per Run 1	0.9994 ppm	94.3974 %	96.9298 %	96.7719 %	108.6579 %	98.0368 %	102.9713 %
Concentration per Run 2	0.9995 ppm	96.9753 %	96.8556 %	96.8351 %	110.1653 %	98.0147 %	102.8741 %
Concentration per Run 3	1.0011 ppm	97.2130 %	96.4123 %	96.5959 %	110.0750 %	97.8051 %	102.2620 %
Concentration RSD	0.1 %	1.6 %	0.3 %	0.1 %	0.8 %	0.1 %	0.4 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: ICV
Analysis started at: 9/26/2024 11:39:38 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5252 ppm	0.5260 ppm	0.4973 ppm	0.5055 ppm	0.5100 ppm	0.5159 ppm	0.5137 ppm
Concentration per Run 1	0.5247 ppm	0.5403 ppm	0.4953 ppm	0.5053 ppm	0.5222 ppm	0.5271 ppm	0.5298 ppm
Concentration per Run 2	0.5275 ppm	0.5199 ppm	0.4991 ppm	0.5066 ppm	0.5049 ppm	0.5108 ppm	0.5056 ppm
Concentration per Run 3	0.5234 ppm	0.5178 ppm	0.4975 ppm	0.5046 ppm	0.5030 ppm	0.5097 ppm	0.5056 ppm
Recovery Percentage 1	105.036 %	105.202 %	99.460 %	101.103 %	102.000 %	103.173 %	102.735 %
Concentration RSD	0.4 %	2.4 %	0.4 %	0.2 %	2.1 %	1.9 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5039 ppm	0.5135 ppm	0.5130 ppm	0.5096 ppm	0.5326 ppm	5.4551 ppm	0.5129 ppm
Concentration per Run 1	0.5047 ppm	0.5141 ppm	0.5119 ppm	0.5101 ppm	0.5428 ppm	5.5664 ppm	0.5252 ppm
Concentration per Run 2	0.5040 ppm	0.5138 ppm	0.5150 ppm	0.5109 ppm	0.5281 ppm	5.4313 ppm	0.5069 ppm
Concentration per Run 3	0.5030 ppm	0.5127 ppm	0.5121 ppm	0.5078 ppm	0.5268 ppm	5.3675 ppm	0.5065 ppm
Recovery Percentage 1	100.784 %	102.709 %	102.601 %	101.921 %	106.515 %	109.101 %	102.571 %
Concentration RSD	0.2 %	0.1 %	0.3 %	0.3 %	1.7 %	1.9 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5214 ppm	0.5082 ppm	0.5002 ppm	10.6992 ppm	0.5134 ppm	0.5124 ppm	0.5097 ppm
Concentration per Run 1	0.5181 ppm	0.5196 ppm	0.4962 ppm	10.9546 ppm	0.5145 ppm	0.5135 ppm	0.5100 ppm
Concentration per Run 2	0.5256 ppm	0.5027 ppm	0.5014 ppm	10.5982 ppm	0.5134 ppm	0.5117 ppm	0.5120 ppm
Concentration per Run 3	0.5205 ppm	0.5022 ppm	0.5031 ppm	10.5448 ppm	0.5123 ppm	0.5121 ppm	0.5072 ppm
Recovery Percentage 1	104.279 %	101.633 %	100.050 %	106.992 %	102.685 %	102.483 %	101.942 %
Concentration RSD	0.7 %	1.9 %	0.7 %	2.1 %	0.2 %	0.2 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5086 ppm	5.5662 ppm	0.4777 ppm	0.4827 ppm	0.5195 ppm	0.5115 ppm	0.5072 ppm
Concentration per Run 1	0.5102 ppm	5.5663 ppm	0.4777 ppm	0.4937 ppm	0.5188 ppm	0.5110 ppm	0.5065 ppm
Concentration per Run 2	0.5063 ppm	5.5723 ppm	0.4789 ppm	0.4780 ppm	0.5218 ppm	0.5129 ppm	0.5092 ppm
Concentration per Run 3	0.5094 ppm	5.5601 ppm	0.4765 ppm	0.4764 ppm	0.5178 ppm	0.5107 ppm	0.5058 ppm
Recovery Percentage 1	101.729 %	106.024 %	95.541 %	96.542 %	103.898 %	102.307 %	101.435 %
Concentration RSD	0.4 %	0.1 %	0.3 %	2.0 %	0.4 %	0.2 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5112 ppm	96.8845 %	97.4510 %	98.7516 %	106.6641 %	100.6187 %	101.8502 %
Concentration per Run 1	0.5119 ppm	94.7740 %	97.7402 %	98.6707 %	104.3735 %	100.4809 %	102.1220 %
Concentration per Run 2	0.5113 ppm	97.4112 %	96.7769 %	98.7647 %	107.1752 %	100.6514 %	101.1006 %
Concentration per Run 3	0.5105 ppm	98.4681 %	97.8360 %	98.8194 %	108.4435 %	100.7239 %	102.3278 %
Recovery Percentage 1	102.250 %						
Concentration RSD	0.1 %	2.0 %	0.6 %	0.1 %	2.0 %	0.1 %	0.6 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: ICB
Analysis started at: 9/26/2024 11:45:41 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0110 ppm	-0.0014 ppm	0.0017 ppm	0.0002 ppm	0.0002 ppm	-0.0005 ppm
Concentration per Run 1	0.0002 ppm	0.0185 ppm	0.0006 ppm	0.0017 ppm	0.0002 ppm	0.0003 ppm	-0.0020 ppm
Concentration per Run 2	0.0004 ppm	0.0049 ppm	-0.0013 ppm	0.0018 ppm	0.0002 ppm	0.0002 ppm	-0.0007 ppm
Concentration per Run 3	0.0003 ppm	0.0095 ppm	-0.0036 ppm	0.0016 ppm	0.0002 ppm	0.0001 ppm	0.0012 ppm
Recovery Percentage 1	4.280 %	10.983 %	-28.285 %	5.656 %	1.881 %	4.169 %	-0.509 %
Concentration RSD	31.7 %	62.8 %	147.9 %	7.5 %	18.3 %	35.1 %	311.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0025 ppm	-0.0148 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0016 ppm	0.0154 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0017 ppm	-0.0442 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0041 ppm	-0.0156 ppm	0.0005 ppm
Recovery Percentage 1	-0.413 %	0.769 %	1.458 %	0.880 %	4.904 %	-0.592 %	5.257 %
Concentration RSD	237.2 %	30.1 %	47.2 %	298.5 %	59.5 %	201.5 %	236.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0023 ppm	0.0002 ppm	0.0027 ppm	0.0036 ppm	0.0003 ppm	-0.0010 ppm	0.0010 ppm
Concentration per Run 1	0.0028 ppm	-0.0001 ppm	0.0032 ppm	-0.0030 ppm	0.0004 ppm	-0.0006 ppm	0.0007 ppm
Concentration per Run 2	0.0028 ppm	0.0002 ppm	0.0026 ppm	0.0015 ppm	0.0005 ppm	-0.0016 ppm	0.0011 ppm
Concentration per Run 3	0.0014 ppm	0.0004 ppm	0.0023 ppm	0.0123 ppm	-0.0001 ppm	-0.0007 ppm	0.0013 ppm
Recovery Percentage 1	2.305 %	1.665 %	5.369 %	0.179 %	1.026 %	-9.761 %	2.080 %
Concentration RSD	34.5 %	170.7 %	17.8 %	220.2 %	136.8 %	55.3 %	27.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm	-0.0005 ppm	0.0003 ppm
Concentration per Run 1	0.0010 ppm	0.0009 ppm	-0.0002 ppm	0.0002 ppm	0.0003 ppm	-0.0002 ppm	0.0005 ppm
Concentration per Run 2	-0.0022 ppm	-0.0008 ppm	0.0008 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 3	0.0012 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0016 ppm	0.0003 ppm
Recovery Percentage 1	0.149 %	0.046 %	0.441 %	1.448 %	1.668 %	-2.648 %	3.096 %
Concentration RSD	12,813.5 %	393.5 %	248.1 %	50.4 %	88.0 %	172.0 %	50.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	101.1677 %	98.8771 %	98.2785 %	101.2254 %	98.1764 %	99.1900 %
Concentration per Run 1	0.0001 ppm	102.2352 %	99.0646 %	98.3929 %	99.2891 %	97.9604 %	99.0995 %
Concentration per Run 2	0.0002 ppm	100.5856 %	98.9589 %	98.3685 %	101.1449 %	98.1777 %	99.2678 %
Concentration per Run 3	0.0002 ppm	100.6824 %	98.6077 %	98.0740 %	103.2421 %	98.3910 %	99.2027 %
Recovery Percentage 1	3.269 %						
Concentration RSD	27.0 %	0.9 %	0.2 %	0.2 %	2.0 %	0.2 %	0.1 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: ICV
Analysis started at: 9/26/2024 11:52:00 AM
Comments position changed
Rack: 0
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5256 ppm	0.5191 ppm	0.5062 ppm	0.5079 ppm	0.5093 ppm	0.5208 ppm	0.5225 ppm
Concentration per Run 1	0.5266 ppm	0.5090 ppm	0.5061 ppm	0.5077 ppm	0.4889 ppm	0.4990 ppm	0.4993 ppm
Concentration per Run 2	0.5246 ppm	0.5254 ppm	0.5074 ppm	0.5090 ppm	0.5187 ppm	0.5305 ppm	0.5394 ppm
Concentration per Run 3	0.5256 ppm	0.5230 ppm	0.5052 ppm	0.5069 ppm	0.5204 ppm	0.5329 ppm	0.5289 ppm
Recovery Percentage 1	105.115 %	103.830 %	101.249 %	101.573 %	101.863 %	104.155 %	104.505 %
Concentration RSD	0.2 %	1.7 %	0.2 %	0.2 %	3.5 %	3.6 %	4.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5140 ppm	0.5258 ppm	0.5181 ppm	0.5143 ppm	0.5244 ppm	5.3999 ppm	0.5119 ppm
Concentration per Run 1	0.5140 ppm	0.5261 ppm	0.5183 ppm	0.5147 ppm	0.5022 ppm	5.1670 ppm	0.4921 ppm
Concentration per Run 2	0.5152 ppm	0.5267 ppm	0.5169 ppm	0.5140 ppm	0.5329 ppm	5.5150 ppm	0.5210 ppm
Concentration per Run 3	0.5129 ppm	0.5246 ppm	0.5192 ppm	0.5143 ppm	0.5379 ppm	5.5176 ppm	0.5226 ppm
Recovery Percentage 1	102.807 %	105.160 %	103.626 %	102.861 %	104.873 %	107.997 %	102.376 %
Concentration RSD	0.2 %	0.2 %	0.2 %	0.1 %	3.7 %	3.7 %	3.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5242 ppm	0.5126 ppm	0.5138 ppm	10.7971 ppm	0.5250 ppm	0.5228 ppm	0.5206 ppm
Concentration per Run 1	0.5210 ppm	0.4912 ppm	0.5096 ppm	10.5430 ppm	0.5254 ppm	0.5238 ppm	0.5202 ppm
Concentration per Run 2	0.5251 ppm	0.5235 ppm	0.5152 ppm	10.9552 ppm	0.5255 ppm	0.5231 ppm	0.5218 ppm
Concentration per Run 3	0.5265 ppm	0.5230 ppm	0.5167 ppm	10.8931 ppm	0.5242 ppm	0.5216 ppm	0.5199 ppm
Recovery Percentage 1	104.844 %	102.511 %	102.766 %	107.971 %	105.006 %	104.566 %	104.129 %
Concentration RSD	0.5 %	3.6 %	0.7 %	2.1 %	0.1 %	0.2 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5129 ppm	5.7006 ppm	0.4986 ppm	0.4966 ppm	0.5244 ppm	0.5190 ppm	0.5123 ppm
Concentration per Run 1	0.5129 ppm	5.7024 ppm	0.4996 ppm	0.4765 ppm	0.5246 ppm	0.5200 ppm	0.5111 ppm
Concentration per Run 2	0.5146 ppm	5.7076 ppm	0.4992 ppm	0.5053 ppm	0.5236 ppm	0.5207 ppm	0.5130 ppm
Concentration per Run 3	0.5113 ppm	5.6917 ppm	0.4969 ppm	0.5080 ppm	0.5251 ppm	0.5165 ppm	0.5129 ppm
Recovery Percentage 1	102.585 %	108.582 %	99.714 %	99.322 %	104.883 %	103.810 %	102.460 %
Concentration RSD	0.3 %	0.1 %	0.3 %	3.5 %	0.1 %	0.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5210 ppm	96.2398 %	97.0617 %	97.1104 %	105.7492 %	98.8990 %	101.5961 %
Concentration per Run 1	0.5214 ppm	99.7090 %	97.3636 %	97.2668 %	107.8620 %	98.8856 %	101.8191 %
Concentration per Run 2	0.5216 ppm	94.4456 %	97.0034 %	97.2081 %	104.2232 %	98.9118 %	101.6052 %
Concentration per Run 3	0.5198 ppm	94.5650 %	96.8181 %	96.8562 %	105.1626 %	98.8996 %	101.3642 %
Recovery Percentage 1	104.192 %						
Concentration RSD	0.2 %	3.1 %	0.3 %	0.2 %	1.8 %	0.0 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: ICB
Analysis started at: 9/26/2024 11:58:05 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	-0.0114 ppm	-0.0007 ppm	0.0013 ppm	0.0001 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 1	0.0006 ppm	-0.0190 ppm	-0.0015 ppm	0.0016 ppm	0.0002 ppm	0.0001 ppm	0.0013 ppm
Concentration per Run 2	0.0008 ppm	-0.0093 ppm	-0.0016 ppm	0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0044 ppm
Concentration per Run 3	0.0004 ppm	-0.0060 ppm	0.0011 ppm	0.0011 ppm	0.0001 ppm	0.0001 ppm	-0.0066 ppm
Recovery Percentage 1	8.570 %	-11.429 %	-13.005 %	4.170 %	0.593 %	1.904 %	-0.286 %
Concentration RSD	30.5 %	59.1 %	231.6 %	27.0 %	254.3 %	48.8 %	1,969.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0013 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0213 ppm	0.0019 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0004 ppm	-0.0054 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm	-0.0005 ppm	-0.0121 ppm	-0.0003 ppm
Recovery Percentage 1	-0.089 %	0.580 %	0.843 %	3.082 %	-0.063 %	0.051 %	2.973 %
Concentration RSD	1,015.1 %	178.4 %	281.0 %	118.1 %	1,491.3 %	1,384.3 %	459.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0021 ppm	-0.0145 ppm	0.0001 ppm	-0.0006 ppm	0.0011 ppm
Concentration per Run 1	0.0027 ppm	0.0002 ppm	0.0025 ppm	-0.0334 ppm	0.0001 ppm	-0.0008 ppm	0.0012 ppm
Concentration per Run 2	-0.0006 ppm	0.0000 ppm	0.0019 ppm	-0.0003 ppm	-0.0002 ppm	-0.0007 ppm	0.0011 ppm
Concentration per Run 3	-0.0016 ppm	-0.0005 ppm	0.0019 ppm	-0.0099 ppm	0.0003 ppm	-0.0003 ppm	0.0010 ppm
Recovery Percentage 1	0.136 %	-1.278 %	4.231 %	-0.727 %	0.328 %	-5.979 %	2.173 %
Concentration RSD	1,642.3 %	281.4 %	16.4 %	117.3 %	320.2 %	47.2 %	11.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 1	0.0008 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm	-0.0008 ppm	0.0006 ppm
Concentration per Run 2	-0.0019 ppm	0.0007 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0006 ppm	0.0003 ppm	-0.0002 ppm	-0.0001 ppm	0.0002 ppm	0.0021 ppm	-0.0004 ppm
Recovery Percentage 1	-6.081 %	0.095 %	-0.232 %	0.010 %	3.667 %	2.350 %	0.836 %
Concentration RSD	221.7 %	46.7 %	97.0 %	8,852.6 %	75.4 %	311.8 %	576.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	97.6489 %	98.5960 %	97.8207 %	98.0277 %	98.3092 %	98.9808 %
Concentration per Run 1	0.0001 ppm	97.1545 %	98.7580 %	98.2441 %	95.4617 %	98.5298 %	98.8771 %
Concentration per Run 2	0.0001 ppm	98.3061 %	98.7564 %	97.6853 %	98.4991 %	98.0561 %	99.1622 %
Concentration per Run 3	0.0000 ppm	97.4861 %	98.2735 %	97.5326 %	100.1222 %	98.3419 %	98.9032 %
Recovery Percentage 1	0.805 %						
Concentration RSD	95.5 %	0.6 %	0.3 %	0.4 %	2.4 %	0.2 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: LLOQ RL
Analysis started at: 9/26/2024 12:04:24 PM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0057 ppm	0.0983 ppm	0.0036 ppm	0.0310 ppm	0.0102 ppm	0.0051 ppm	0.1045 ppm
Concentration per Run 1	0.0057 ppm	0.0939 ppm	0.0042 ppm	0.0310 ppm	0.0102 ppm	0.0051 ppm	0.1068 ppm
Concentration per Run 2	0.0055 ppm	0.1028 ppm	0.0026 ppm	0.0313 ppm	0.0102 ppm	0.0050 ppm	0.1003 ppm
Concentration per Run 3	0.0059 ppm	0.0982 ppm	0.0040 ppm	0.0308 ppm	0.0103 ppm	0.0051 ppm	0.1065 ppm
Recovery Percentage 1	114.293 %	98.301 %	71.961 %	103.428 %	102.090 %	101.118 %	104.533 %
Concentration RSD	3.6 %	4.5 %	23.3 %	0.9 %	0.4 %	0.2 %	3.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0042 ppm	0.0208 ppm	0.0103 ppm	0.0105 ppm	0.0509 ppm	2.6456 ppm	0.0103 ppm
Concentration per Run 1	0.0042 ppm	0.0209 ppm	0.0102 ppm	0.0102 ppm	0.0500 ppm	2.6547 ppm	0.0106 ppm
Concentration per Run 2	0.0042 ppm	0.0206 ppm	0.0101 ppm	0.0107 ppm	0.0517 ppm	2.6613 ppm	0.0100 ppm
Concentration per Run 3	0.0042 ppm	0.0208 ppm	0.0105 ppm	0.0106 ppm	0.0509 ppm	2.6207 ppm	0.0102 ppm
Recovery Percentage 1	104.139 %	103.850 %	102.909 %	105.179 %	101.754 %	105.823 %	102.896 %
Concentration RSD	0.1 %	0.7 %	1.9 %	2.8 %	1.7 %	0.8 %	3.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1039 ppm	0.0102 ppm	0.0527 ppm	2.1793 ppm	0.0206 ppm	0.0092 ppm	0.0534 ppm
Concentration per Run 1	0.1032 ppm	0.0100 ppm	0.0529 ppm	2.1903 ppm	0.0205 ppm	0.0091 ppm	0.0550 ppm
Concentration per Run 2	0.1040 ppm	0.0104 ppm	0.0526 ppm	2.1841 ppm	0.0211 ppm	0.0092 ppm	0.0521 ppm
Concentration per Run 3	0.1046 ppm	0.0103 ppm	0.0526 ppm	2.1637 ppm	0.0202 ppm	0.0093 ppm	0.0530 ppm
Recovery Percentage 1	103.922 %	102.368 %	105.419 %	108.967 %	103.022 %	92.224 %	106.719 %
Concentration RSD	0.7 %	2.4 %	0.3 %	0.6 %	2.0 %	1.1 %	2.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0085 ppm	0.5430 ppm	0.0495 ppm	0.0099 ppm	0.0523 ppm	0.0189 ppm	0.0104 ppm
Concentration per Run 1	0.0084 ppm	0.5458 ppm	0.0498 ppm	0.0099 ppm	0.0523 ppm	0.0190 ppm	0.0105 ppm
Concentration per Run 2	0.0095 ppm	0.5404 ppm	0.0493 ppm	0.0099 ppm	0.0525 ppm	0.0182 ppm	0.0102 ppm
Concentration per Run 3	0.0077 ppm	0.5427 ppm	0.0496 ppm	0.0098 ppm	0.0520 ppm	0.0196 ppm	0.0104 ppm
Recovery Percentage 1	85.379 %	108.592 %	99.095 %	98.759 %	104.542 %	94.633 %	103.674 %
Concentration RSD	10.5 %	0.5 %	0.5 %	0.6 %	0.4 %	3.6 %	1.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0060 ppm	98.9890 %	99.7646 %	99.4296 %	106.8483 %	101.3200 %	103.6690 %
Concentration per Run 1	0.0060 ppm	98.9741 %	99.8923 %	99.2963 %	106.2048 %	100.9432 %	103.7122 %
Concentration per Run 2	0.0060 ppm	98.8910 %	100.1174 %	99.6638 %	106.5616 %	101.9466 %	103.8968 %
Concentration per Run 3	0.0060 ppm	99.1019 %	99.2840 %	99.3289 %	107.7785 %	101.0702 %	103.3979 %
Recovery Percentage 1	119.249 %						
Concentration RSD	0.2 %	0.1 %	0.4 %	0.2 %	0.8 %	0.5 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: ICSA
Analysis started at: 9/26/2024 12:10:39 PM
Comments <Comment>
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0026 ppm	515.7662 ppm	-0.0085 ppm	-0.0054 ppm	0.0016 ppm	-0.0002 ppm	567.2779 ppm
Concentration per Run 1	0.0023 ppm	519.7303 ppm	-0.0111 ppm	-0.0059 ppm	0.0016 ppm	-0.0002 ppm	565.9601 ppm
Concentration per Run 2	0.0030 ppm	517.8083 ppm	-0.0075 ppm	-0.0064 ppm	0.0017 ppm	-0.0002 ppm	572.5987 ppm
Concentration per Run 3	0.0024 ppm	509.7599 ppm	-0.0069 ppm	-0.0040 ppm	0.0014 ppm	-0.0001 ppm	563.2751 ppm
Recovery Percentage 1	36.741 %	515,766.163 %	-169.983 %	-18.074 %	15.639 %	-3.139 %	567,277.943 %
Concentration RSD	15.8 %	1.0 %	26.5 %	23.5 %	10.1 %	14.4 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0032 ppm	0.0005 ppm	0.0006 ppm	-0.0091 ppm	191.4497 ppm	-0.0081 ppm	-0.0170 ppm
Concentration per Run 1	0.0032 ppm	0.0004 ppm	0.0006 ppm	-0.0090 ppm	190.8863 ppm	-0.0067 ppm	-0.0170 ppm
Concentration per Run 2	0.0032 ppm	0.0005 ppm	0.0007 ppm	-0.0091 ppm	193.5200 ppm	-0.0269 ppm	-0.0185 ppm
Concentration per Run 3	0.0031 ppm	0.0007 ppm	0.0004 ppm	-0.0091 ppm	189.9427 ppm	0.0092 ppm	-0.0153 ppm
Recovery Percentage 1	79.579 %	2.672 %	5.577 %	-90.604 %	382,899.350 %	-0.326 %	-169.679 %
Concentration RSD	1.1 %	25.1 %	27.6 %	0.9 %	1.0 %	222.3 %	9.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	488.8256 ppm	0.0003 ppm	-0.0016 ppm	0.0545 ppm	-0.0073 ppm	-0.0099 ppm	0.0080 ppm
Concentration per Run 1	487.1326 ppm	0.0005 ppm	-0.0012 ppm	0.0551 ppm	-0.0075 ppm	-0.0097 ppm	0.0079 ppm
Concentration per Run 2	485.3522 ppm	0.0001 ppm	-0.0017 ppm	0.0575 ppm	-0.0075 ppm	-0.0101 ppm	0.0069 ppm
Concentration per Run 3	493.9921 ppm	0.0003 ppm	-0.0019 ppm	0.0509 ppm	-0.0071 ppm	-0.0100 ppm	0.0091 ppm
Recovery Percentage 1	488,825.641 %	3.060 %	-3.255 %	2.725 %	-29.372 %	-99.221 %	15.904 %
Concentration RSD	0.9 %	65.2 %	22.1 %	6.1 %	3.4 %	2.0 %	13.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0017 ppm	0.0002 ppm	0.0022 ppm	0.0040 ppm	-0.0011 ppm	-0.0016 ppm	-0.0005 ppm
Concentration per Run 1	0.0017 ppm	0.0010 ppm	0.0030 ppm	0.0040 ppm	-0.0010 ppm	-0.0031 ppm	-0.0004 ppm
Concentration per Run 2	-0.0040 ppm	-0.0001 ppm	0.0020 ppm	0.0039 ppm	-0.0012 ppm	-0.0008 ppm	-0.0005 ppm
Concentration per Run 3	-0.0028 ppm	-0.0003 ppm	0.0016 ppm	0.0040 ppm	-0.0010 ppm	-0.0010 ppm	-0.0005 ppm
Recovery Percentage 1	-16.922 %	0.037 %	4.377 %	39.891 %	-10.633 %	-8.119 %	-4.512 %
Concentration RSD	177.1 %	387.5 %	34.0 %	1.4 %	9.9 %	78.2 %	10.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0008 ppm	90.2161 %	83.9302 %	84.0879 %	102.8422 %	78.2605 %	90.0565 %
Concentration per Run 1	-0.0008 ppm	89.8280 %	84.0895 %	84.0248 %	102.9677 %	78.5493 %	90.4070 %
Concentration per Run 2	-0.0007 ppm	89.8895 %	84.0600 %	83.9956 %	102.5820 %	78.0064 %	90.2121 %
Concentration per Run 3	-0.0008 ppm	90.9307 %	83.6410 %	84.2432 %	102.9769 %	78.2258 %	89.5504 %
Recovery Percentage 1	-15.237 %						
Concentration RSD	10.7 %	0.7 %	0.3 %	0.2 %	0.2 %	0.3 %	0.5 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: SIC Multi
Analysis started at: 9/26/2024 12:36:18 PM
Comments <Comment>
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.0072 ppm	-0.0002 ppm	0.0098 ppm	0.0008 ppm	0.0045 ppm	0.0115 ppm
Concentration per Run 1	0.0011 ppm	0.0021 ppm	0.0009 ppm	0.0094 ppm	0.0008 ppm	0.0048 ppm	0.0106 ppm
Concentration per Run 2	0.0003 ppm	0.0136 ppm	-0.0011 ppm	0.0100 ppm	0.0009 ppm	0.0045 ppm	0.0121 ppm
Concentration per Run 3	0.0004 ppm	0.0057 ppm	-0.0003 ppm	0.0098 ppm	0.0006 ppm	0.0043 ppm	0.0118 ppm
Recovery Percentage 1	8.838 %	7.160 %	-3.657 %	32.505 %	7.530 %	90.113 %	11.494 %
Concentration RSD	73.5 %	82.2 %	528.1 %	3.2 %	17.9 %	5.5 %	7.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0003 ppm	0.0001 ppm	20.2172 ppm	-0.0097 ppm	-0.0879 ppm	-0.0069 ppm	0.0011 ppm
Concentration per Run 1	-0.0003 ppm	-0.0001 ppm	20.2806 ppm	-0.0095 ppm	-0.0909 ppm	0.0101 ppm	-0.0003 ppm
Concentration per Run 2	-0.0003 ppm	0.0001 ppm	20.1258 ppm	-0.0097 ppm	-0.0869 ppm	-0.0044 ppm	0.0020 ppm
Concentration per Run 3	-0.0003 ppm	0.0005 ppm	20.2451 ppm	-0.0100 ppm	-0.0859 ppm	-0.0264 ppm	0.0017 ppm
Recovery Percentage 1	-7.244 %	0.735 %	202,171.635 %	-97.323 %	-175.764 %	-0.275 %	11.329 %
Concentration RSD	7.1 %	200.5 %	0.4 %	2.6 %	3.0 %	267.5 %	107.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0020 ppm	20.6386 ppm	0.0019 ppm	0.0407 ppm	0.0003 ppm	0.0038 ppm	0.0141 ppm
Concentration per Run 1	-0.0016 ppm	20.8639 ppm	0.0018 ppm	0.0488 ppm	0.0004 ppm	0.0033 ppm	0.0114 ppm
Concentration per Run 2	-0.0022 ppm	20.5321 ppm	0.0018 ppm	0.0338 ppm	0.0005 ppm	0.0045 ppm	0.0161 ppm
Concentration per Run 3	-0.0022 ppm	20.5199 ppm	0.0020 ppm	0.0394 ppm	-0.0001 ppm	0.0036 ppm	0.0149 ppm
Recovery Percentage 1	-1.994 %	206,386.184 %	3.743 %	2.033 %	1.129 %	37.891 %	28.244 %
Concentration RSD	18.9 %	0.9 %	6.2 %	18.7 %	128.0 %	15.8 %	17.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0019 ppm	0.0637 ppm	-0.0008 ppm	0.0003 ppm	20.2566 ppm	0.0063 ppm	10.2333 ppm
Concentration per Run 1	0.0021 ppm	0.0635 ppm	-0.0008 ppm	0.0004 ppm	20.2974 ppm	0.0076 ppm	10.2341 ppm
Concentration per Run 2	0.0007 ppm	0.0652 ppm	-0.0007 ppm	0.0003 ppm	20.2236 ppm	0.0039 ppm	10.1851 ppm
Concentration per Run 3	0.0028 ppm	0.0623 ppm	-0.0010 ppm	0.0004 ppm	20.2490 ppm	0.0074 ppm	10.2808 ppm
Recovery Percentage 1	18.664 %	12.733 %	-1.678 %	3.476 %	202,566.444 %	31.710 %	102,333.320 %
Concentration RSD	57.7 %	2.3 %	14.8 %	5.9 %	0.2 %	32.9 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0058 ppm	97.7574 %	99.4945 %	99.7402 %	112.0551 %	101.1758 %	104.6045 %
Concentration per Run 1	-0.0057 ppm	96.3825 %	99.5631 %	99.8337 %	111.9636 %	101.3409 %	104.7165 %
Concentration per Run 2	-0.0060 ppm	98.1651 %	99.3305 %	99.7835 %	112.0332 %	101.2331 %	104.6342 %
Concentration per Run 3	-0.0058 ppm	98.7246 %	99.5900 %	99.6035 %	112.1686 %	100.9533 %	104.4628 %
Recovery Percentage 1	-116.626 %						
Concentration RSD	2.3 %	1.3 %	0.1 %	0.1 %	0.1 %	0.2 %	0.1 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: LDR Check
Analysis started at: 9/26/2024 12:43:00 PM
Comments <Comment>
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0030 ppm	0.0974 ppm	20.9721 ppm	24.0331 ppm	19.9599 ppm	5.0729 ppm	0.0380 ppm
Concentration per Run 1	0.0033 ppm	0.0848 ppm	20.9917 ppm	24.0489 ppm	20.0786 ppm	5.0881 ppm	0.0370 ppm
Concentration per Run 2	0.0026 ppm	0.0944 ppm	20.9465 ppm	24.0206 ppm	19.9175 ppm	5.0336 ppm	0.0402 ppm
Concentration per Run 3	0.0029 ppm	0.1130 ppm	20.9782 ppm	24.0300 ppm	19.8835 ppm	5.0971 ppm	0.0368 ppm
Recovery Percentage 1	0.000 %	0.000 %	104.861 %	120.166 %	99.799 %	101.458 %	0.000 %
Concentration RSD	11.9 %	14.7 %	0.1 %	0.1 %	0.5 %	0.7 %	5.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	4.9307 ppm	4.9466 ppm	0.0004 ppm	20.1687 ppm	0.0139 ppm	447.1572 ppm	18.6509 ppm
Concentration per Run 1	4.9362 ppm	4.9505 ppm	0.0006 ppm	20.2120 ppm	0.0146 ppm	452.7605 ppm	18.7249 ppm
Concentration per Run 2	4.9268 ppm	4.9433 ppm	0.0003 ppm	20.2840 ppm	0.0127 ppm	445.3670 ppm	18.6106 ppm
Concentration per Run 3	4.9290 ppm	4.9462 ppm	0.0003 ppm	20.0102 ppm	0.0145 ppm	443.3442 ppm	18.6171 ppm
Recovery Percentage 1	98.613 %	98.933 %	0.000 %	100.844 %	0.000 %	89.431 %	93.254 %
Concentration RSD	0.1 %	0.1 %	37.1 %	0.7 %	7.8 %	1.1 %	0.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0371 ppm	0.0041 ppm	5.2244 ppm	439.2330 ppm	9.5604 ppm	47.4924 ppm	5.1466 ppm
Concentration per Run 1	-0.0365 ppm	0.0046 ppm	5.1946 ppm	446.9609 ppm	9.5671 ppm	47.5527 ppm	5.1465 ppm
Concentration per Run 2	-0.0366 ppm	0.0036 ppm	5.2271 ppm	439.6344 ppm	9.5566 ppm	47.4644 ppm	5.1483 ppm
Concentration per Run 3	-0.0381 ppm	0.0040 ppm	5.2514 ppm	431.1035 ppm	9.5574 ppm	47.4602 ppm	5.1451 ppm
Recovery Percentage 1	0.000 %	0.000 %	104.488 %	87.847 %	95.604 %	94.985 %	102.932 %
Concentration RSD	2.5 %	11.9 %	0.5 %	1.8 %	0.1 %	0.1 %	0.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	4.8826 ppm	21.6674 ppm	9.3609 ppm	4.8821 ppm	0.0085 ppm	4.5484 ppm	-0.0021 ppm
Concentration per Run 1	4.8947 ppm	21.6892 ppm	9.3768 ppm	4.9573 ppm	0.0090 ppm	4.5490 ppm	-0.0020 ppm
Concentration per Run 2	4.8766 ppm	21.6554 ppm	9.3518 ppm	4.8540 ppm	0.0082 ppm	4.5468 ppm	-0.0023 ppm
Concentration per Run 3	4.8765 ppm	21.6576 ppm	9.3542 ppm	4.8350 ppm	0.0083 ppm	4.5495 ppm	-0.0019 ppm
Recovery Percentage 1	97.652 %	108.337 %	93.609 %	97.642 %	0.000 %	90.969 %	0.000 %
Concentration RSD	0.2 %	0.1 %	0.1 %	1.3 %	4.9 %	0.0 %	9.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	19.6777 ppm	92.3208 %	88.0146 %	79.5467 %	103.7927 %	90.8747 %	92.9140 %
Concentration per Run 1	19.7058 ppm	91.5372 %	87.8815 %	79.6944 %	102.5879 %	90.8001 %	92.7045 %
Concentration per Run 2	19.6705 ppm	93.1216 %	87.8433 %	79.4248 %	104.5467 %	90.8632 %	92.7148 %
Concentration per Run 3	19.6569 ppm	92.3037 %	88.3189 %	79.5210 %	104.2436 %	90.9608 %	93.3226 %
Recovery Percentage 1	98.389 %						
Concentration RSD	0.1 %	0.9 %	0.3 %	0.2 %	1.0 %	0.1 %	0.4 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: zLLOQ RL 0.005
Analysis started at: 9/26/2024 1:04:13 PM
Comments <Comment>
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0058 ppm	**0.0018 ppm**	**0.0083 ppm**	**0.0126 ppm**	0.0053 ppm	0.0052 ppm	0.0017 ppm
Concentration per Run 1	0.0059 ppm	-0.0039 ppm	0.0089 ppm	0.0130 ppm	0.0053 ppm	0.0051 ppm	-0.0087 ppm
Concentration per Run 2	0.0059 ppm	0.0055 ppm	0.0077 ppm	0.0122 ppm	0.0051 ppm	0.0052 ppm	0.0067 ppm
Concentration per Run 3	0.0057 ppm	0.0038 ppm	0.0083 ppm	0.0126 ppm	0.0055 ppm	0.0052 ppm	0.0070 ppm
Recovery Percentage 1	116.874 %	36.273 %	165.664 %	251.841 %	105.939 %	103.715 %	0.000 %
Concentration RSD	2.6 %	**277.1 %**	**7.2 %**	**3.0 %**	3.9 %	1.3 %	539.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0053 ppm	0.0055 ppm	0.0054 ppm	0.0051 ppm	0.0043 ppm	0.0897 ppm	0.0073 ppm
Concentration per Run 1	0.0053 ppm	0.0055 ppm	0.0055 ppm	0.0053 ppm	0.0039 ppm	0.0879 ppm	0.0061 ppm
Concentration per Run 2	0.0053 ppm	0.0056 ppm	0.0051 ppm	0.0051 ppm	0.0043 ppm	0.0854 ppm	0.0088 ppm
Concentration per Run 3	0.0053 ppm	0.0054 ppm	0.0055 ppm	0.0050 ppm	0.0046 ppm	0.0957 ppm	0.0069 ppm
Recovery Percentage 1	106.099 %	109.840 %	107.138 %	102.252 %	85.664 %	0.000 %	0.000 %
Concentration RSD	0.5 %	2.0 %	4.2 %	3.4 %	8.6 %	6.0 %	19.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0069 ppm	0.0053 ppm	**0.0063 ppm**	0.1495 ppm	0.0055 ppm	0.0054 ppm	**0.0081 ppm**
Concentration per Run 1	0.0062 ppm	0.0050 ppm	0.0063 ppm	0.1542 ppm	0.0055 ppm	0.0049 ppm	0.0069 ppm
Concentration per Run 2	0.0078 ppm	0.0054 ppm	0.0063 ppm	0.1488 ppm	0.0055 ppm	0.0056 ppm	0.0089 ppm
Concentration per Run 3	0.0068 ppm	0.0056 ppm	0.0063 ppm	0.1456 ppm	0.0055 ppm	0.0055 ppm	0.0084 ppm
Recovery Percentage 1	0.000 %	106.268 %	126.165 %	0.000 %	110.215 %	107.319 %	161.183 %
Concentration RSD	11.5 %	5.9 %	**0.6 %**	2.9 %	0.6 %	7.2 %	**12.9 %**

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0052 ppm	**0.0598 ppm**	0.0054 ppm	0.0049 ppm	0.0053 ppm	0.0040 ppm	0.0055 ppm
Concentration per Run 1	0.0068 ppm	0.0594 ppm	0.0053 ppm	0.0049 ppm	0.0055 ppm	0.0028 ppm	0.0054 ppm
Concentration per Run 2	0.0019 ppm	0.0596 ppm	0.0051 ppm	0.0048 ppm	0.0052 ppm	0.0041 ppm	0.0057 ppm
Concentration per Run 3	0.0067 ppm	0.0604 ppm	0.0056 ppm	0.0049 ppm	0.0052 ppm	0.0051 ppm	0.0054 ppm
Recovery Percentage 1	103.212 %	1,195.639 %	107.070 %	97.064 %	105.760 %	80.469 %	109.727 %
Concentration RSD	53.9 %	**0.8 %**	4.4 %	0.9 %	3.9 %	29.2 %	4.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0056 ppm	98.2431 %	100.0850 %	99.9177 %	102.4709 %	100.4379 %	101.7234 %
Concentration per Run 1	0.0056 ppm	97.6744 %	99.8859 %	100.0823 %	100.5573 %	100.4575 %	101.3303 %
Concentration per Run 2	0.0056 ppm	98.5438 %	100.5647 %	99.8056 %	103.1324 %	100.2856 %	102.0952 %
Concentration per Run 3	0.0055 ppm	98.5112 %	99.8045 %	99.8652 %	103.7228 %	100.5706 %	101.7449 %
Recovery Percentage 1	111.334 %						
Concentration RSD	0.4 %	0.5 %	0.4 %	0.1 %	1.6 %	0.1 %	0.4 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: LLOQ RL 0.01
Analysis started at: 9/26/2024 1:10:29 PM
Comments <Comment>
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0112 ppm	0.0063 ppm	0.0099 ppm	0.0149 ppm	0.0106 ppm	0.0105 ppm	0.0118 ppm
Concentration per Run 1	0.0111 ppm	0.0039 ppm	0.0104 ppm	0.0154 ppm	0.0110 ppm	0.0104 ppm	0.0104 ppm
Concentration per Run 2	0.0110 ppm	0.0094 ppm	0.0099 ppm	0.0147 ppm	0.0105 ppm	0.0104 ppm	0.0116 ppm
Concentration per Run 3	0.0115 ppm	0.0055 ppm	0.0094 ppm	0.0145 ppm	0.0104 ppm	0.0106 ppm	0.0133 ppm
Recovery Percentage 1	0.000 %	0.000 %	99.144 %	149.030 %	106.175 %	0.000 %	0.000 %
Concentration RSD	2.5 %	44.8 %	5.1 %	3.2 %	2.9 %	1.1 %	12.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0106 ppm	0.0108 ppm	0.0108 ppm	0.0102 ppm	0.0097 ppm	0.1379 ppm	0.0117 ppm
Concentration per Run 1	0.0106 ppm	0.0109 ppm	0.0110 ppm	0.0102 ppm	0.0090 ppm	0.0990 ppm	0.0129 ppm
Concentration per Run 2	0.0106 ppm	0.0108 ppm	0.0107 ppm	0.0103 ppm	0.0100 ppm	0.1456 ppm	0.0124 ppm
Concentration per Run 3	0.0106 ppm	0.0107 ppm	0.0106 ppm	0.0101 ppm	0.0100 ppm	0.1690 ppm	0.0098 ppm
Recovery Percentage 1	0.000 %	107.711 %	107.751 %	101.758 %	0.000 %	0.000 %	117.008 %
Concentration RSD	0.4 %	1.0 %	2.0 %	0.9 %	5.8 %	25.8 %	14.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0123 ppm	0.0104 ppm	0.0111 ppm	0.2399 ppm	0.0109 ppm	0.0097 ppm	0.0126 ppm
Concentration per Run 1	0.0109 ppm	0.0105 ppm	0.0112 ppm	0.2438 ppm	0.0109 ppm	0.0101 ppm	0.0112 ppm
Concentration per Run 2	0.0129 ppm	0.0104 ppm	0.0109 ppm	0.2334 ppm	0.0109 ppm	0.0101 ppm	0.0148 ppm
Concentration per Run 3	0.0130 ppm	0.0102 ppm	0.0112 ppm	0.2425 ppm	0.0109 ppm	0.0090 ppm	0.0119 ppm
Recovery Percentage 1	0.000 %	103.644 %	111.070 %	0.000 %	108.660 %	97.112 %	0.000 %
Concentration RSD	10.0 %	1.1 %	1.7 %	2.4 %	0.1 %	6.6 %	15.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0099 ppm	0.1176 ppm	0.0102 ppm	0.0099 ppm	0.0107 ppm	0.0095 ppm	0.0109 ppm
Concentration per Run 1	0.0105 ppm	0.1179 ppm	0.0107 ppm	0.0099 ppm	0.0107 ppm	0.0090 ppm	0.0106 ppm
Concentration per Run 2	0.0085 ppm	0.1174 ppm	0.0098 ppm	0.0100 ppm	0.0107 ppm	0.0101 ppm	0.0110 ppm
Concentration per Run 3	0.0107 ppm	0.1174 ppm	0.0102 ppm	0.0097 ppm	0.0106 ppm	0.0095 ppm	0.0110 ppm
Recovery Percentage 1	98.939 %	0.000 %	102.091 %	98.730 %	106.591 %	95.199 %	108.816 %
Concentration RSD	12.1 %	0.3 %	4.4 %	1.7 %	0.2 %	5.5 %	1.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0110 ppm	95.8690 %	97.7128 %	97.7101 %	99.4234 %	98.5361 %	99.9003 %
Concentration per Run 1	0.0111 ppm	95.5719 %	97.7156 %	97.3627 %	97.8865 %	97.9110 %	99.7683 %
Concentration per Run 2	0.0109 ppm	96.0391 %	97.5794 %	97.6538 %	99.4250 %	98.4775 %	99.8551 %
Concentration per Run 3	0.0110 ppm	95.9962 %	97.8434 %	98.1138 %	100.9586 %	99.2198 %	100.0775 %
Recovery Percentage 1	110.059 %						
Concentration RSD	0.6 %	0.3 %	0.1 %	0.4 %	1.5 %	0.7 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: IEC 500 Al Pb-
Analysis started at: 9/26/2024 1:16:43 PM
Comments <Comment>
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	500.1414 ppm	0.0043 ppm	-0.0072 ppm	0.0001 ppm	-0.0001 ppm	0.0063 ppm
Concentration per Run 1	0.0001 ppm	508.4494 ppm	0.0013 ppm	-0.0070 ppm	0.0001 ppm	-0.0001 ppm	0.0095 ppm
Concentration per Run 2	-0.0004 ppm	498.5683 ppm	0.0053 ppm	-0.0073 ppm	0.0003 ppm	-0.0001 ppm	0.0040 ppm
Concentration per Run 3	0.0006 ppm	493.4066 ppm	0.0065 ppm	-0.0072 ppm	-0.0002 ppm	0.0000 ppm	0.0056 ppm
Recovery Percentage 1	1.323 %	500,141.442 %	86.874 %	-23.906 %	0.758 %	-1.100 %	6.347 %
Concentration RSD	497.2 %	1.5 %	62.1 %	2.2 %	327.5 %	60.3 %	44.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0010 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0033 ppm	-0.0022 ppm	-0.0034 ppm
Concentration per Run 1	-0.0010 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	-0.0040 ppm	-0.0072 ppm	-0.0027 ppm
Concentration per Run 2	-0.0010 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0025 ppm	0.0015 ppm	-0.0040 ppm
Concentration per Run 3	-0.0011 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm	-0.0034 ppm	-0.0007 ppm	-0.0034 ppm
Recovery Percentage 1	-24.882 %	-0.001 %	0.780 %	-1.491 %	-6.616 %	-0.086 %	-33.592 %
Concentration RSD	5.4 %	29,381.9 %	356.0 %	65.8 %	21.7 %	210.1 %	19.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0011 ppm	-0.0006 ppm	0.0007 ppm	0.0363 ppm	0.0012 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 1	-0.0032 ppm	-0.0009 ppm	0.0006 ppm	0.0361 ppm	0.0009 ppm	-0.0014 ppm	0.0038 ppm
Concentration per Run 2	-0.0007 ppm	-0.0005 ppm	0.0008 ppm	0.0351 ppm	0.0014 ppm	0.0003 ppm	0.0040 ppm
Concentration per Run 3	0.0006 ppm	-0.0003 ppm	0.0009 ppm	0.0378 ppm	0.0014 ppm	0.0011 ppm	0.0078 ppm
Recovery Percentage 1	-1.135 %	-5.816 %	1.477 %	1.814 %	4.815 %	0.076 %	10.403 %
Concentration RSD	169.5 %	45.0 %	20.7 %	3.8 %	24.7 %	16,957.8 %	42.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0038 ppm	0.0127 ppm	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	-0.0044 ppm	0.0004 ppm
Concentration per Run 1	0.0020 ppm	0.0129 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0059 ppm	0.0004 ppm
Concentration per Run 2	0.0026 ppm	0.0126 ppm	-0.0002 ppm	-0.0002 ppm	0.0006 ppm	-0.0038 ppm	0.0004 ppm
Concentration per Run 3	0.0067 ppm	0.0127 ppm	-0.0007 ppm	-0.0002 ppm	0.0006 ppm	-0.0036 ppm	0.0003 ppm
Recovery Percentage 1	37.565 %	2.547 %	-0.292 %	-1.176 %	3.774 %	-22.214 %	3.887 %
Concentration RSD	69.1 %	1.1 %	386.4 %	105.8 %	96.7 %	28.2 %	21.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0005 ppm	99.4772 %	92.5990 %	97.4100 %	107.7073 %	93.6038 %	97.7517 %
Concentration per Run 1	-0.0005 ppm	99.5514 %	92.6977 %	97.4741 %	106.3971 %	93.6390 %	97.7586 %
Concentration per Run 2	-0.0005 ppm	99.1911 %	92.7465 %	97.5271 %	108.1233 %	93.6176 %	97.8909 %
Concentration per Run 3	-0.0005 ppm	99.6890 %	92.3528 %	97.2289 %	108.6015 %	93.5549 %	97.6055 %
Recovery Percentage 1	-9.697 %						
Concentration RSD	4.8 %	0.3 %	0.2 %	0.2 %	1.1 %	0.0 %	0.1 %

LabBook: WG1976666_09262024T5.imexp

Sample: LDR 250 NA
Analysis started at: 9/26/2024 1:35:50 PM
Comments <Comment>
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.0048 ppm	0.0008 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 1	0.0003 ppm	-0.0022 ppm	-0.0008 ppm	0.0010 ppm	0.0002 ppm	-0.0001 ppm	0.0052 ppm
Concentration per Run 2	0.0009 ppm	0.0108 ppm	0.0016 ppm	0.0013 ppm	0.0000 ppm	-0.0001 ppm	0.0011 ppm
Concentration per Run 3	0.0006 ppm	0.0060 ppm	0.0017 ppm	0.0015 ppm	0.0001 ppm	0.0000 ppm	0.0045 ppm
Concentration RSD	55.1 %	135.9 %	168.5 %	21.7 %	73.3 %	100.6 %	59.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	-0.0022 ppm	0.0214 ppm	-0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0005 ppm	-0.0025 ppm	0.0348 ppm	-0.0019 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0007 ppm	-0.0007 ppm	-0.0089 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0006 ppm	-0.0034 ppm	0.0382 ppm	-0.0012 ppm
Concentration RSD	406.9 %	337.3 %	402.3 %	17.8 %	62.0 %	122.9 %	60.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0025 ppm	-0.0001 ppm	0.0001 ppm	250.4007 ppm	-0.0002 ppm	-0.0007 ppm	0.0018 ppm
Concentration per Run 1	-0.0021 ppm	-0.0003 ppm	0.0002 ppm	259.2069 ppm	-0.0004 ppm	-0.0003 ppm	0.0012 ppm
Concentration per Run 2	-0.0043 ppm	-0.0003 ppm	0.0002 ppm	247.7666 ppm	-0.0003 ppm	-0.0012 ppm	0.0018 ppm
Concentration per Run 3	-0.0011 ppm	0.0002 ppm	0.0000 ppm	244.2286 ppm	0.0000 ppm	-0.0006 ppm	0.0023 ppm
Concentration RSD	67.6 %	263.4 %	102.2 %	3.1 %	84.8 %	66.5 %	30.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0013 ppm	0.0028 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0013 ppm	0.0001 ppm
Concentration per Run 1	-0.0010 ppm	0.0026 ppm	-0.0005 ppm	-0.0002 ppm	-0.0001 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 2	-0.0031 ppm	0.0023 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0038 ppm	0.0000 ppm
Concentration per Run 3	0.0002 ppm	0.0034 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0002 ppm
Concentration RSD	128.6 %	19.3 %	329.6 %	635.4 %	36.1 %	178.0 %	143.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	95.2241 %	94.1033 %	94.5936 %	101.2024 %	93.1287 %	97.3482 %
Concentration per Run 1	0.0003 ppm	94.2361 %	93.9245 %	94.7357 %	99.0353 %	92.8423 %	97.0149 %
Concentration per Run 2	0.0002 ppm	95.5942 %	94.1437 %	94.4459 %	101.4036 %	93.0876 %	97.4831 %
Concentration per Run 3	0.0002 ppm	95.8421 %	94.2418 %	94.5992 %	103.1684 %	93.4562 %	97.5465 %
Concentration RSD	30.9 %	0.9 %	0.2 %	0.2 %	2.0 %	0.3 %	0.3 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: LDR 250 K
Analysis started at: 9/26/2024 1:43:00 PM
Comments <Comment>
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0039 ppm	0.0001 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 1	0.0001 ppm	0.0069 ppm	0.0008 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0018 ppm
Concentration per Run 2	0.0003 ppm	0.0057 ppm	0.0002 ppm	0.0017 ppm	0.0002 ppm	0.0000 ppm	-0.0046 ppm
Concentration per Run 3	-0.0001 ppm	-0.0009 ppm	-0.0007 ppm	0.0014 ppm	0.0002 ppm	0.0000 ppm	0.0014 ppm
Concentration RSD	197.7 %	108.5 %	683.7 %	40.8 %	48.4 %	154.2 %	747.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	-0.0004 ppm	248.5716 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	246.1490 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0003 ppm	-0.0011 ppm	249.8556 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0002 ppm	-0.0005 ppm	249.7101 ppm	-0.0019 ppm
Concentration RSD	192.1 %	94.1 %	490.3 %	98.3 %	163.1 %	0.8 %	157.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.2077 ppm	0.0000 ppm	-0.0010 ppm	0.0017 ppm
Concentration per Run 1	0.0012 ppm	-0.0002 ppm	0.0002 ppm	0.2945 ppm	-0.0001 ppm	-0.0009 ppm	0.0018 ppm
Concentration per Run 2	0.0004 ppm	-0.0002 ppm	0.0002 ppm	0.1858 ppm	0.0001 ppm	-0.0011 ppm	0.0009 ppm
Concentration per Run 3	-0.0020 ppm	0.0003 ppm	0.0001 ppm	0.1430 ppm	0.0000 ppm	-0.0010 ppm	0.0025 ppm
Concentration RSD	1,326.8 %	1,214.8 %	30.2 %	37.6 %	392.5 %	7.3 %	46.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0011 ppm	0.0030 ppm	0.0004 ppm	0.0001 ppm	-0.0002 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 1	-0.0026 ppm	0.0028 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 2	0.0001 ppm	0.0025 ppm	0.0009 ppm	0.0000 ppm	-0.0006 ppm	-0.0013 ppm	-0.0002 ppm
Concentration per Run 3	-0.0007 ppm	0.0037 ppm	-0.0002 ppm	0.0002 ppm	-0.0001 ppm	-0.0015 ppm	0.0002 ppm
Concentration RSD	131.2 %	21.4 %	149.6 %	142.7 %	177.1 %	25.4 %	499.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	94.7103 %	92.9934 %	93.5821 %	101.2642 %	93.2835 %	96.9074 %
Concentration per Run 1	0.0003 ppm	96.0150 %	92.8012 %	93.7792 %	101.3643 %	93.5033 %	96.7482 %
Concentration per Run 2	0.0003 ppm	94.0183 %	92.9705 %	93.4896 %	100.6042 %	92.8623 %	96.8378 %
Concentration per Run 3	0.0002 ppm	94.0975 %	93.2085 %	93.4773 %	101.8242 %	93.4850 %	97.1362 %
Concentration RSD	10.0 %	1.2 %	0.2 %	0.2 %	0.6 %	0.4 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/26/2024 2:00:21 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5317 ppm	0.5287 ppm	0.5085 ppm	0.5130 ppm	0.5198 ppm	0.5302 ppm	0.5290 ppm
Concentration per Run 1	0.5312 ppm	0.5389 ppm	0.5107 ppm	0.5138 ppm	0.5304 ppm	0.5407 ppm	0.5413 ppm
Concentration per Run 2	0.5324 ppm	0.5235 ppm	0.5090 ppm	0.5136 ppm	0.5158 ppm	0.5261 ppm	0.5196 ppm
Concentration per Run 3	0.5314 ppm	0.5238 ppm	0.5058 ppm	0.5115 ppm	0.5131 ppm	0.5237 ppm	0.5260 ppm
Recovery Percentage 1	106.337 %	105.749 %	101.702 %	102.593 %	103.956 %	106.035 %	105.794 %
Concentration RSD	0.1 %	1.7 %	0.5 %	0.2 %	1.8 %	1.7 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5123 ppm	0.5222 ppm	0.5198 ppm	0.5117 ppm	0.5322 ppm	5.5951 ppm	0.5251 ppm
Concentration per Run 1	0.5125 ppm	0.5230 ppm	0.5194 ppm	0.5120 ppm	0.5378 ppm	5.7429 ppm	0.5336 ppm
Concentration per Run 2	0.5136 ppm	0.5229 ppm	0.5198 ppm	0.5115 ppm	0.5306 ppm	5.5509 ppm	0.5217 ppm
Concentration per Run 3	0.5110 ppm	0.5206 ppm	0.5203 ppm	0.5116 ppm	0.5283 ppm	5.4916 ppm	0.5201 ppm
Recovery Percentage 1	102.469 %	104.433 %	103.969 %	102.346 %	106.443 %	111.902 %	105.026 %
Concentration RSD	0.3 %	0.3 %	0.1 %	0.1 %	0.9 %	2.3 %	1.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5230 ppm	0.5260 ppm	0.5048 ppm	10.9889 ppm	0.5222 ppm	0.5215 ppm	0.5215 ppm
Concentration per Run 1	0.5255 ppm	0.5353 ppm	0.4994 ppm	11.2591 ppm	0.5225 ppm	0.5211 ppm	0.5209 ppm
Concentration per Run 2	0.5207 ppm	0.5222 ppm	0.5066 ppm	10.9508 ppm	0.5237 ppm	0.5221 ppm	0.5225 ppm
Concentration per Run 3	0.5227 ppm	0.5204 ppm	0.5083 ppm	10.7567 ppm	0.5205 ppm	0.5212 ppm	0.5210 ppm
Recovery Percentage 1	104.591 %	105.193 %	100.954 %	109.889 %	104.445 %	104.292 %	104.292 %
Concentration RSD	0.5 %	1.6 %	0.9 %	2.3 %	0.3 %	0.1 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5183 ppm	5.6704 ppm	0.4852 ppm	0.4956 ppm	0.5228 ppm	0.5186 ppm	0.5097 ppm
Concentration per Run 1	0.5180 ppm	5.6742 ppm	0.4865 ppm	0.5055 ppm	0.5232 ppm	0.5169 ppm	0.5106 ppm
Concentration per Run 2	0.5196 ppm	5.6809 ppm	0.4859 ppm	0.4920 ppm	0.5222 ppm	0.5204 ppm	0.5089 ppm
Concentration per Run 3	0.5174 ppm	5.6562 ppm	0.4832 ppm	0.4892 ppm	0.5231 ppm	0.5185 ppm	0.5096 ppm
Recovery Percentage 1	103.668 %	108.008 %	97.036 %	99.114 %	104.565 %	103.719 %	101.936 %
Concentration RSD	0.2 %	0.2 %	0.4 %	1.8 %	0.1 %	0.3 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5207 ppm	95.3705 %	97.6346 %	97.0079 %	104.5588 %	99.3269 %	101.7853 %
Concentration per Run 1	0.5209 ppm	93.4714 %	97.4599 %	96.9395 %	102.0213 %	99.1384 %	101.6030 %
Concentration per Run 2	0.5220 ppm	96.6261 %	97.9780 %	97.1484 %	105.5973 %	99.2280 %	102.1189 %
Concentration per Run 3	0.5191 ppm	96.0141 %	97.4660 %	96.9357 %	106.0577 %	99.6141 %	101.6341 %
Recovery Percentage 1	104.139 %						
Concentration RSD	0.3 %	1.8 %	0.3 %	0.1 %	2.1 %	0.3 %	0.3 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/26/2024 2:06:23 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0061 ppm	0.0002 ppm	0.0010 ppm	0.0004 ppm	0.0002 ppm	0.0014 ppm
Concentration per Run 1	0.0006 ppm	-0.0033 ppm	0.0000 ppm	0.0010 ppm	0.0007 ppm	0.0004 ppm	0.0044 ppm
Concentration per Run 2	0.0004 ppm	0.0113 ppm	0.0012 ppm	0.0010 ppm	0.0006 ppm	0.0001 ppm	0.0023 ppm
Concentration per Run 3	0.0000 ppm	0.0103 ppm	-0.0006 ppm	0.0010 ppm	0.0000 ppm	0.0001 ppm	-0.0026 ppm
Recovery Percentage 1	4.699 %	6.087 %	4.039 %	3.270 %	4.238 %	4.189 %	1.362 %
Concentration RSD	93.3 %	134.4 %	449.1 %	2.1 %	85.0 %	60.8 %	264.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	-0.0001 ppm	-0.0066 ppm	-0.0015 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0007 ppm	0.0008 ppm	-0.0180 ppm	-0.0014 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0006 ppm	0.0005 ppm	-0.0008 ppm	0.0085 ppm	-0.0011 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0005 ppm	-0.0001 ppm	-0.0003 ppm	-0.0102 ppm	-0.0018 ppm
Recovery Percentage 1	-0.307 %	-0.092 %	-1.033 %	3.328 %	-0.228 %	-0.263 %	-14.535 %
Concentration RSD	277.1 %	386.9 %	540.5 %	123.5 %	695.7 %	207.7 %	24.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0017 ppm	0.0000 ppm	0.0022 ppm	0.0124 ppm	0.0001 ppm	-0.0011 ppm	0.0019 ppm
Concentration per Run 1	-0.0028 ppm	0.0003 ppm	0.0025 ppm	0.0092 ppm	0.0000 ppm	-0.0010 ppm	0.0026 ppm
Concentration per Run 2	-0.0011 ppm	-0.0004 ppm	0.0020 ppm	0.0266 ppm	0.0003 ppm	-0.0005 ppm	0.0007 ppm
Concentration per Run 3	-0.0012 ppm	0.0001 ppm	0.0020 ppm	0.0015 ppm	0.0001 ppm	-0.0019 ppm	0.0026 ppm
Recovery Percentage 1	-1.704 %	-0.027 %	4.344 %	0.621 %	0.515 %	-11.142 %	3.895 %
Concentration RSD	54.0 %	13,926.9 %	12.6 %	103.7 %	129.7 %	61.1 %	56.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0020 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	-0.0007 ppm	0.0003 ppm
Concentration per Run 1	-0.0050 ppm	0.0001 ppm	-0.0004 ppm	0.0003 ppm	0.0001 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	0.0007 ppm	0.0002 ppm	0.0001 ppm	-0.0009 ppm	0.0005 ppm
Concentration per Run 3	-0.0014 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	0.0004 ppm
Recovery Percentage 1	-20.446 %	-0.009 %	0.177 %	1.894 %	-0.895 %	-3.632 %	3.275 %
Concentration RSD	130.1 %	974.7 %	633.9 %	78.4 %	345.2 %	50.9 %	61.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	96.1972 %	97.8664 %	97.0711 %	96.4315 %	97.8992 %	98.2174 %
Concentration per Run 1	0.0003 ppm	92.8768 %	97.1796 %	97.3674 %	91.7837 %	97.7610 %	97.3211 %
Concentration per Run 2	0.0001 ppm	97.6140 %	98.9176 %	97.0705 %	97.5834 %	98.0296 %	99.1534 %
Concentration per Run 3	0.0001 ppm	98.1009 %	97.5020 %	96.7755 %	99.9273 %	97.9069 %	98.1778 %
Recovery Percentage 1	3.012 %						
Concentration RSD	94.3 %	3.0 %	0.9 %	0.3 %	4.3 %	0.1 %	0.9 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/26/2024 2:16:57 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5405 ppm	0.5516 ppm	0.5151 ppm	0.5208 ppm	0.5451 ppm	0.5573 ppm	0.5462 ppm
Concentration per Run 1	0.5399 ppm	0.5398 ppm	0.5177 ppm	0.5224 ppm	0.5376 ppm	0.5497 ppm	0.5316 ppm
Concentration per Run 2	0.5407 ppm	0.5622 ppm	0.5140 ppm	0.5195 ppm	0.5617 ppm	0.5746 ppm	0.5673 ppm
Concentration per Run 3	0.5409 ppm	0.5527 ppm	0.5137 ppm	0.5204 ppm	0.5360 ppm	0.5477 ppm	0.5398 ppm
Recovery Percentage 1	108.100 %	110.321 %	103.025 %	104.153 %	109.017 %	111.467 %	109.246 %
Concentration RSD	0.1 %	2.0 %	0.4 %	0.3 %	2.6 %	2.7 %	3.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5152 ppm	0.5265 ppm	0.5252 ppm	0.5172 ppm	0.5569 ppm	5.7822 ppm	0.5458 ppm
Concentration per Run 1	0.5175 ppm	0.5287 ppm	0.5271 ppm	0.5170 ppm	0.5457 ppm	5.7230 ppm	0.5350 ppm
Concentration per Run 2	0.5135 ppm	0.5253 ppm	0.5246 ppm	0.5181 ppm	0.5756 ppm	5.9496 ppm	0.5641 ppm
Concentration per Run 3	0.5146 ppm	0.5256 ppm	0.5240 ppm	0.5164 ppm	0.5494 ppm	5.6740 ppm	0.5384 ppm
Recovery Percentage 1	103.037 %	105.305 %	105.044 %	103.431 %	111.378 %	115.644 %	109.168 %
Concentration RSD	0.4 %	0.4 %	0.3 %	0.2 %	2.9 %	2.5 %	2.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5312 ppm	0.5521 ppm	0.5102 ppm	11.0409 ppm	0.5275 ppm	0.5300 ppm	0.5270 ppm
Concentration per Run 1	0.5315 ppm	0.5437 ppm	0.5072 ppm	10.8887 ppm	0.5294 ppm	0.5322 ppm	0.5292 ppm
Concentration per Run 2	0.5334 ppm	0.5700 ppm	0.5092 ppm	11.3744 ppm	0.5257 ppm	0.5291 ppm	0.5256 ppm
Concentration per Run 3	0.5288 ppm	0.5426 ppm	0.5143 ppm	10.8595 ppm	0.5275 ppm	0.5287 ppm	0.5264 ppm
Recovery Percentage 1	106.244 %	110.422 %	102.049 %	110.409 %	105.506 %	106.003 %	105.407 %
Concentration RSD	0.4 %	2.8 %	0.7 %	2.6 %	0.3 %	0.4 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5313 ppm	5.7554 ppm	0.4952 ppm	0.5198 ppm	0.5320 ppm	0.5201 ppm	0.5174 ppm
Concentration per Run 1	0.5315 ppm	5.7689 ppm	0.4969 ppm	0.5133 ppm	0.5320 ppm	0.5222 ppm	0.5173 ppm
Concentration per Run 2	0.5321 ppm	5.7450 ppm	0.4947 ppm	0.5358 ppm	0.5327 ppm	0.5187 ppm	0.5177 ppm
Concentration per Run 3	0.5302 ppm	5.7524 ppm	0.4939 ppm	0.5104 ppm	0.5312 ppm	0.5193 ppm	0.5171 ppm
Recovery Percentage 1	106.251 %	109.627 %	99.039 %	103.970 %	106.396 %	104.016 %	103.474 %
Concentration RSD	0.2 %	0.2 %	0.3 %	2.7 %	0.1 %	0.4 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5250 ppm	91.9006 %	97.2128 %	97.1611 %	100.5228 %	98.9446 %	100.7490 %
Concentration per Run 1	0.5273 ppm	92.9362 %	97.0240 %	97.0200 %	101.3670 %	98.6016 %	100.4922 %
Concentration per Run 2	0.5234 ppm	89.1492 %	97.3527 %	97.3420 %	97.9711 %	99.2228 %	100.8399 %
Concentration per Run 3	0.5244 ppm	93.6165 %	97.2616 %	97.1213 %	102.2304 %	99.0093 %	100.9149 %
Recovery Percentage 1	105.004 %						
Concentration RSD	0.4 %	2.6 %	0.2 %	0.2 %	2.2 %	0.3 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/26/2024 2:23:00 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	-0.0031 ppm	-0.0004 ppm	0.0019 ppm	0.0004 ppm	0.0002 ppm	-0.0011 ppm
Concentration per Run 1	0.0006 ppm	-0.0008 ppm	-0.0008 ppm	0.0022 ppm	0.0006 ppm	0.0003 ppm	-0.0039 ppm
Concentration per Run 2	0.0002 ppm	-0.0077 ppm	0.0004 ppm	0.0019 ppm	0.0006 ppm	0.0003 ppm	-0.0018 ppm
Concentration per Run 3	0.0002 ppm	-0.0008 ppm	-0.0009 ppm	0.0017 ppm	0.0000 ppm	0.0002 ppm	0.0025 ppm
Recovery Percentage 1	4.343 %	-3.067 %	-8.333 %	6.340 %	3.683 %	4.735 %	-1.053 %
Concentration RSD	84.8 %	129.9 %	177.6 %	13.6 %	92.4 %	32.4 %	310.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0001 ppm	-0.0458 ppm	-0.0032 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0006 ppm	0.0004 ppm	-0.0784 ppm	-0.0015 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0005 ppm	-0.0005 ppm	0.0049 ppm	-0.0038 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0004 ppm	-0.0639 ppm	-0.0043 ppm
Recovery Percentage 1	-0.419 %	0.411 %	3.209 %	5.421 %	0.195 %	-1.832 %	-32.206 %
Concentration RSD	344.9 %	151.0 %	50.1 %	11.3 %	571.5 %	97.1 %	46.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0005 ppm	0.0002 ppm	0.0020 ppm	0.0117 ppm	0.0001 ppm	-0.0013 ppm	0.0012 ppm
Concentration per Run 1	0.0012 ppm	0.0006 ppm	0.0022 ppm	0.0126 ppm	0.0001 ppm	-0.0012 ppm	0.0011 ppm
Concentration per Run 2	-0.0010 ppm	0.0003 ppm	0.0020 ppm	0.0141 ppm	0.0000 ppm	-0.0018 ppm	0.0017 ppm
Concentration per Run 3	-0.0017 ppm	-0.0004 ppm	0.0018 ppm	0.0084 ppm	0.0001 ppm	-0.0009 ppm	0.0007 ppm
Recovery Percentage 1	-0.481 %	1.654 %	3.978 %	0.586 %	0.285 %	-12.791 %	2.370 %
Concentration RSD	306.4 %	315.2 %	10.8 %	25.4 %	43.3 %	34.6 %	43.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0009 ppm	0.0012 ppm	0.0001 ppm	0.0004 ppm	0.0002 ppm	-0.0013 ppm	0.0002 ppm
Concentration per Run 1	0.0033 ppm	0.0020 ppm	0.0003 ppm	0.0006 ppm	0.0005 ppm	-0.0012 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0016 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm	-0.0018 ppm	0.0002 ppm
Concentration per Run 3	-0.0006 ppm	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm	-0.0009 ppm	0.0002 ppm
Recovery Percentage 1	8.701 %	0.248 %	0.242 %	3.930 %	2.079 %	-6.573 %	1.802 %
Concentration RSD	243.0 %	81.8 %	144.7 %	36.1 %	144.9 %	31.6 %	36.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	97.8847 %	97.5798 %	97.5080 %	97.7461 %	97.5962 %	97.4550 %
Concentration per Run 1	0.0003 ppm	98.3377 %	97.5035 %	97.4188 %	96.3916 %	97.2662 %	97.3838 %
Concentration per Run 2	0.0003 ppm	97.3851 %	97.6323 %	97.6045 %	97.4551 %	97.6647 %	97.4940 %
Concentration per Run 3	0.0002 ppm	97.9314 %	97.6036 %	97.5009 %	99.3915 %	97.8576 %	97.4872 %
Recovery Percentage 1	5.450 %						
Concentration RSD	10.6 %	0.5 %	0.1 %	0.1 %	1.6 %	0.3 %	0.1 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: LDR B 20
Analysis started at: 9/26/2024 2:30:00 PM
Comments <Comment>
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0082 ppm	0.0007 ppm	20.6373 ppm	0.0001 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	0.0007 ppm	0.0106 ppm	0.0000 ppm	20.6451 ppm	0.0003 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 2	0.0000 ppm	-0.0010 ppm	0.0012 ppm	20.6489 ppm	0.0000 ppm	0.0000 ppm	-0.0060 ppm
Concentration per Run 3	0.0003 ppm	0.0150 ppm	0.0009 ppm	20.6179 ppm	0.0000 ppm	0.0000 ppm	0.0026 ppm
Concentration RSD	120.1 %	100.8 %	91.9 %	0.1 %	158.7 %	34.8 %	737.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0002 ppm	-0.0016 ppm	-0.0469 ppm	-0.0025 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0002 ppm	-0.0016 ppm	-0.0333 ppm	-0.0051 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0014 ppm	-0.0722 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	-0.0019 ppm	-0.0351 ppm	-0.0023 ppm
Concentration RSD	343.0 %	87.7 %	145.8 %	52.3 %	16.5 %	46.8 %	96.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0004 ppm	0.0002 ppm	0.0007 ppm	0.0060 ppm	0.0002 ppm	-0.0013 ppm	0.0017 ppm
Concentration per Run 1	0.0026 ppm	0.0007 ppm	0.0007 ppm	0.0024 ppm	0.0001 ppm	-0.0012 ppm	0.0022 ppm
Concentration per Run 2	-0.0006 ppm	0.0001 ppm	0.0008 ppm	0.0102 ppm	0.0001 ppm	-0.0024 ppm	0.0012 ppm
Concentration per Run 3	-0.0008 ppm	-0.0001 ppm	0.0006 ppm	0.0055 ppm	0.0003 ppm	-0.0004 ppm	0.0016 ppm
Concentration RSD	493.6 %	184.0 %	8.2 %	64.7 %	77.4 %	73.8 %	30.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0009 ppm	0.0023 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	-0.0015 ppm	0.0001 ppm
Concentration per Run 1	0.0014 ppm	0.0023 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm	-0.0014 ppm	0.0001 ppm
Concentration per Run 2	-0.0001 ppm	0.0011 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 3	0.0014 ppm	0.0034 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	-0.0027 ppm	0.0001 ppm
Concentration RSD	94.3 %	51.4 %	42.4 %	36.4 %	19.5 %	78.5 %	26.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	97.4221 %	98.4465 %	98.4002 %	98.0526 %	98.8155 %	99.5959 %
Concentration per Run 1	0.0002 ppm	95.5315 %	98.3353 %	98.1044 %	94.8210 %	98.6255 %	99.1467 %
Concentration per Run 2	0.0001 ppm	97.3519 %	98.4655 %	98.4602 %	98.1595 %	98.6988 %	99.6632 %
Concentration per Run 3	0.0001 ppm	99.3828 %	98.5388 %	98.6359 %	101.1774 %	99.1222 %	99.9779 %
Concentration RSD	43.4 %	2.0 %	0.1 %	0.3 %	3.2 %	0.3 %	0.4 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: LDR 500 CA
Analysis started at: 9/26/2024 2:36:18 PM
Comments <Comment>
Rack: 1
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0155 ppm	0.0002 ppm	0.0410 ppm	-0.0001 ppm	-0.0001 ppm	**510.0840 ppm**
Concentration per Run 1	0.0000 ppm	0.0196 ppm	0.0020 ppm	0.0447 ppm	-0.0001 ppm	-0.0001 ppm	530.4378 ppm
Concentration per Run 2	0.0001 ppm	0.0179 ppm	-0.0001 ppm	0.0410 ppm	-0.0001 ppm	0.0000 ppm	510.0517 ppm
Concentration per Run 3	0.0001 ppm	0.0091 ppm	-0.0012 ppm	0.0372 ppm	-0.0001 ppm	-0.0002 ppm	489.7624 ppm
Concentration RSD	146.9 %	36.3 %	726.0 %	9.2 %	24.2 %	52.5 %	4.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0009 ppm	-0.0002 ppm	-0.0297 ppm	-0.0163 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0007 ppm	-0.0008 ppm	-0.0271 ppm	-0.0182 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0010 ppm	0.0005 ppm	-0.0345 ppm	-0.0157 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0011 ppm	-0.0004 ppm	-0.0276 ppm	-0.0151 ppm
Concentration RSD	55.0 %	10.0 %	34.2 %	26.2 %	270.3 %	13.8 %	9.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0003 ppm	0.0002 ppm	0.0001 ppm	0.0109 ppm	0.0003 ppm	-0.0028 ppm	0.0004 ppm
Concentration per Run 1	-0.0013 ppm	0.0005 ppm	0.0001 ppm	0.0144 ppm	0.0004 ppm	-0.0031 ppm	-0.0005 ppm
Concentration per Run 2	0.0005 ppm	-0.0002 ppm	0.0000 ppm	0.0108 ppm	0.0003 ppm	-0.0024 ppm	-0.0006 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0075 ppm	0.0003 ppm	-0.0029 ppm	0.0023 ppm
Concentration RSD	365.0 %	161.8 %	124.5 %	31.8 %	20.9 %	11.7 %	440.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0010 ppm	-0.0015 ppm	0.0008 ppm	0.0001 ppm	-0.0015 ppm	-0.0009 ppm	0.0003 ppm
Concentration per Run 1	0.0019 ppm	-0.0024 ppm	0.0009 ppm	0.0001 ppm	-0.0016 ppm	0.0009 ppm	0.0003 ppm
Concentration per Run 2	-0.0014 ppm	-0.0014 ppm	0.0014 ppm	0.0002 ppm	-0.0018 ppm	-0.0026 ppm	0.0001 ppm
Concentration per Run 3	-0.0035 ppm	-0.0008 ppm	0.0002 ppm	0.0000 ppm	-0.0012 ppm	-0.0011 ppm	0.0003 ppm
Concentration RSD	270.0 %	54.3 %	67.4 %	69.5 %	20.7 %	189.7 %	52.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0005 ppm	92.9698 %	91.5655 %	90.9358 %	95.1142 %	86.6450 %	92.4942 %
Concentration per Run 1	0.0005 ppm	90.3542 %	91.4702 %	90.9633 %	90.8317 %	86.4755 %	92.3165 %
Concentration per Run 2	0.0006 ppm	93.6604 %	92.0638 %	91.1263 %	95.8263 %	86.7261 %	93.0303 %
Concentration per Run 3	0.0005 ppm	94.8948 %	91.1625 %	90.7178 %	98.6848 %	86.7336 %	92.1359 %
Concentration RSD	8.7 %	2.5 %	0.5 %	0.2 %	4.2 %	0.2 %	0.5 %

LabBook: WG1976666_09262024T5.imexp

Sample: zIEC 200 FE Pb-
Analysis started at: 9/26/2024 3:04:00 PM
Comments <Comment>
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0030 ppm	-0.0008 ppm	-0.0040 ppm	0.0026 ppm	0.0000 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 1	0.0034 ppm	-0.0002 ppm	-0.0037 ppm	0.0031 ppm	-0.0001 ppm	0.0000 ppm	-0.0035 ppm
Concentration per Run 2	0.0024 ppm	-0.0028 ppm	-0.0051 ppm	0.0023 ppm	0.0000 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 3	0.0034 ppm	0.0008 ppm	-0.0032 ppm	0.0025 ppm	0.0000 ppm	0.0000 ppm	-0.0025 ppm
Recovery Percentage 1	43.442 %	-0.757 %	-80.023 %	8.754 %	-0.044 %	0.513 %	-1.479 %
Concentration RSD	19.6 %	242.9 %	24.8 %	15.9 %	1,097.7 %	52.1 %	179.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0018 ppm	-0.0007 ppm	-0.0003 ppm	-0.0124 ppm	**191.1675 ppm**	-0.0976 ppm	-0.0030 ppm
Concentration per Run 1	0.0018 ppm	-0.0009 ppm	-0.0005 ppm	-0.0121 ppm	194.3672 ppm	-0.0862 ppm	-0.0005 ppm
Concentration per Run 2	0.0018 ppm	-0.0006 ppm	0.0001 ppm	-0.0124 ppm	188.5258 ppm	-0.0968 ppm	-0.0039 ppm
Concentration per Run 3	0.0018 ppm	-0.0006 ppm	-0.0005 ppm	-0.0126 ppm	190.6095 ppm	-0.1098 ppm	-0.0047 ppm
Recovery Percentage 1	44.441 %	-3.513 %	-2.629 %	-123.768 %	382,335.048 %	-3.904 %	-30.468 %
Concentration RSD	1.3 %	23.5 %	134.4 %	2.3 %	**1.5 %**	12.1 %	73.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0062 ppm	-0.0002 ppm	-0.0016 ppm	0.0178 ppm	-0.0072 ppm	0.0002 ppm	0.0038 ppm
Concentration per Run 1	-0.0072 ppm	0.0000 ppm	-0.0016 ppm	0.0275 ppm	-0.0074 ppm	-0.0002 ppm	0.0039 ppm
Concentration per Run 2	-0.0048 ppm	-0.0001 ppm	-0.0015 ppm	0.0200 ppm	-0.0072 ppm	0.0018 ppm	0.0033 ppm
Concentration per Run 3	-0.0066 ppm	-0.0004 ppm	-0.0018 ppm	0.0059 ppm	-0.0070 ppm	-0.0009 ppm	0.0043 ppm
Recovery Percentage 1	-6.203 %	-1.611 %	-3.254 %	0.889 %	-28.745 %	2.497 %	7.691 %
Concentration RSD	20.8 %	149.0 %	10.5 %	61.6 %	3.2 %	542.2 %	13.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	0.0020 ppm	0.0008 ppm	0.0002 ppm	-0.0001 ppm	0.0015 ppm	0.0002 ppm
Concentration per Run 1	-0.0012 ppm	0.0017 ppm	0.0010 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0013 ppm	0.0008 ppm	0.0002 ppm	0.0002 ppm	0.0011 ppm	0.0005 ppm
Concentration per Run 3	-0.0004 ppm	0.0031 ppm	0.0005 ppm	0.0002 ppm	-0.0003 ppm	0.0030 ppm	0.0002 ppm
Recovery Percentage 1	-4.857 %	0.407 %	1.531 %	1.785 %	-0.526 %	7.278 %	1.990 %
Concentration RSD	127.6 %	45.8 %	31.2 %	23.2 %	525.9 %	96.4 %	148.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0002 ppm	101.4123 %	99.8938 %	99.4357 %	111.7228 %	99.9322 %	103.8379 %
Concentration per Run 1	-0.0003 ppm	100.3695 %	99.5375 %	99.4059 %	110.8409 %	100.3989 %	103.6239 %
Concentration per Run 2	-0.0002 ppm	102.1418 %	100.1047 %	99.3431 %	112.6140 %	99.7371 %	103.9975 %
Concentration per Run 3	-0.0002 ppm	101.7255 %	100.0393 %	99.5581 %	111.7135 %	99.6607 %	103.8922 %
Recovery Percentage 1	-4.866 %						
Concentration RSD	22.1 %	0.9 %	0.3 %	0.1 %	0.8 %	0.4 %	0.2 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: WG1976148-2 WG1976148
Analysis started at: 9/26/2024 3:24:11 PM
Comments <Comment>
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0503 ppm	2.0032 ppm	0.1176 ppm	0.9562 ppm	1.9826 ppm	0.0518 ppm	9.8837 ppm
Concentration per Run 1	0.0501 ppm	1.9897 ppm	0.1175 ppm	0.9586 ppm	1.9713 ppm	0.0512 ppm	9.8215 ppm
Concentration per Run 2	0.0499 ppm	2.0256 ppm	0.1183 ppm	0.9540 ppm	2.0043 ppm	0.0527 ppm	10.0022 ppm
Concentration per Run 3	0.0508 ppm	1.9945 ppm	0.1172 ppm	0.9558 ppm	1.9722 ppm	0.0516 ppm	9.8272 ppm
Concentration RSD	0.9 %	1.0 %	0.5 %	0.2 %	0.9 %	1.5 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0523 ppm	0.4912 ppm	0.1996 ppm	0.2508 ppm	1.0337 ppm	10.3767 ppm	-0.0035 ppm
Concentration per Run 1	0.0525 ppm	0.4924 ppm	0.1998 ppm	0.2515 ppm	1.0221 ppm	10.3303 ppm	-0.0041 ppm
Concentration per Run 2	0.0521 ppm	0.4902 ppm	0.1999 ppm	0.2503 ppm	1.0502 ppm	10.5183 ppm	-0.0021 ppm
Concentration per Run 3	0.0522 ppm	0.4909 ppm	0.1991 ppm	0.2506 ppm	1.0287 ppm	10.2815 ppm	-0.0043 ppm
Concentration RSD	0.4 %	0.2 %	0.2 %	0.2 %	1.4 %	1.2 %	34.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.8755 ppm	0.5109 ppm	1.0032 ppm	10.0978 ppm	0.5009 ppm	0.5376 ppm	0.5014 ppm
Concentration per Run 1	9.8798 ppm	0.5081 ppm	1.0018 ppm	10.0453 ppm	0.5021 ppm	0.5386 ppm	0.5024 ppm
Concentration per Run 2	9.8791 ppm	0.5167 ppm	1.0024 ppm	10.2350 ppm	0.4997 ppm	0.5367 ppm	0.5005 ppm
Concentration per Run 3	9.8675 ppm	0.5079 ppm	1.0054 ppm	10.0132 ppm	0.5008 ppm	0.5376 ppm	0.5012 ppm
Concentration RSD	0.1 %	1.0 %	0.2 %	1.2 %	0.2 %	0.2 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1167 ppm	0.8561 ppm	0.9630 ppm	0.9513 ppm	1.0152 ppm	0.1142 ppm	0.4968 ppm
Concentration per Run 1	0.1187 ppm	0.8572 ppm	0.9643 ppm	0.9452 ppm	1.0131 ppm	0.1148 ppm	0.4972 ppm
Concentration per Run 2	0.1144 ppm	0.8557 ppm	0.9623 ppm	0.9641 ppm	1.0161 ppm	0.1128 ppm	0.4971 ppm
Concentration per Run 3	0.1170 ppm	0.8553 ppm	0.9622 ppm	0.9445 ppm	1.0165 ppm	0.1148 ppm	0.4962 ppm
Concentration RSD	1.9 %	0.1 %	0.1 %	1.2 %	0.2 %	1.0 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4907 ppm	93.9914 %	97.2853 %	96.6158 %	101.8070 %	95.6514 %	99.3993 %
Concentration per Run 1	0.4921 ppm	94.4956 %	97.0678 %	96.4523 %	102.7365 %	95.2555 %	99.1661 %
Concentration per Run 2	0.4904 ppm	92.3249 %	97.2420 %	96.5957 %	99.9109 %	95.8237 %	99.2921 %
Concentration per Run 3	0.4897 ppm	95.1538 %	97.5459 %	96.7994 %	102.7736 %	95.8749 %	99.7398 %
Concentration RSD	0.3 %	1.6 %	0.2 %	0.2 %	1.6 %	0.4 %	0.3 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453196-01d50 WG1975237
Analysis started at: 9/26/2024 3:30:19 PM
Comments <Comment>
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	2.4892 ppm	0.0035 ppm	0.0051 ppm	0.0127 ppm	0.0000 ppm	9.3139 ppm
Concentration per Run 1	0.0005 ppm	2.5128 ppm	0.0036 ppm	0.0051 ppm	0.0130 ppm	0.0001 ppm	9.4013 ppm
Concentration per Run 2	-0.0001 ppm	2.5333 ppm	0.0051 ppm	0.0053 ppm	0.0132 ppm	0.0000 ppm	9.5115 ppm
Concentration per Run 3	0.0013 ppm	2.4214 ppm	0.0019 ppm	0.0050 ppm	0.0121 ppm	0.0000 ppm	9.0287 ppm
Concentration RSD	114.4 %	2.4 %	44.3 %	2.8 %	4.6 %	78.1 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0075 ppm	0.0050 ppm	0.0268 ppm	0.0211 ppm	3.0300 ppm	0.3670 ppm	-0.0008 ppm
Concentration per Run 1	0.0075 ppm	0.0049 ppm	0.0266 ppm	0.0216 ppm	3.0451 ppm	0.3150 ppm	-0.0012 ppm
Concentration per Run 2	0.0075 ppm	0.0052 ppm	0.0270 ppm	0.0208 ppm	3.0935 ppm	0.4060 ppm	0.0007 ppm
Concentration per Run 3	0.0076 ppm	0.0048 ppm	0.0267 ppm	0.0209 ppm	2.9513 ppm	0.3801 ppm	-0.0021 ppm
Concentration RSD	0.3 %	4.4 %	0.8 %	2.0 %	2.4 %	12.8 %	170.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.7935 ppm	0.0535 ppm	0.1247 ppm	0.8915 ppm	0.0088 ppm	0.1151 ppm	4.4378 ppm
Concentration per Run 1	0.7945 ppm	0.0543 ppm	0.1249 ppm	0.8958 ppm	0.0088 ppm	0.1152 ppm	4.4389 ppm
Concentration per Run 2	0.7942 ppm	0.0546 ppm	0.1246 ppm	0.9131 ppm	0.0088 ppm	0.1151 ppm	4.4500 ppm
Concentration per Run 3	0.7918 ppm	0.0517 ppm	0.1247 ppm	0.8656 ppm	0.0089 ppm	0.1151 ppm	4.4246 ppm
Concentration RSD	0.2 %	3.0 %	0.1 %	2.7 %	0.4 %	0.1 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	0.1948 ppm	0.0106 ppm	0.0092 ppm	0.1178 ppm	-0.0012 ppm	0.0025 ppm
Concentration per Run 1	0.0001 ppm	0.1954 ppm	0.0111 ppm	0.0094 ppm	0.1181 ppm	-0.0003 ppm	0.0028 ppm
Concentration per Run 2	-0.0008 ppm	0.1946 ppm	0.0104 ppm	0.0094 ppm	0.1176 ppm	-0.0007 ppm	0.0026 ppm
Concentration per Run 3	-0.0007 ppm	0.1944 ppm	0.0102 ppm	0.0089 ppm	0.1176 ppm	-0.0027 ppm	0.0022 ppm
Concentration RSD	103.7 %	0.3 %	4.4 %	3.2 %	0.2 %	107.8 %	13.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	32.1244 ppm	95.4336 %	99.8678 %	99.5894 %	96.0753 %	99.3083 %	100.1073 %
Concentration per Run 1	32.2624 ppm	94.5857 %	99.9100 %	99.7561 %	93.5890 %	99.5032 %	100.0741 %
Concentration per Run 2	31.9793 ppm	93.4905 %	99.6918 %	99.5995 %	94.6584 %	99.1061 %	99.7207 %
Concentration per Run 3	32.1314 ppm	98.2245 %	100.0014 %	99.4126 %	99.9786 %	99.3156 %	100.5270 %
Concentration RSD	0.4 %	2.6 %	0.2 %	0.2 %	3.6 %	0.2 %	0.4 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: zL2453855-01d20 WG1975237
Analysis started at: 9/26/2024 3:36:37 PM
Comments <Comment>
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0055 ppm	7.4186 ppm	0.0374 ppm	0.0675 ppm	0.4009 ppm	0.0040 ppm	16.4298 ppm
Concentration per Run 1	0.0054 ppm	7.4393 ppm	0.0363 ppm	0.0674 ppm	0.4025 ppm	0.0040 ppm	16.5237 ppm
Concentration per Run 2	0.0057 ppm	7.5725 ppm	0.0393 ppm	0.0674 ppm	0.4083 ppm	0.0041 ppm	16.7440 ppm
Concentration per Run 3	0.0055 ppm	7.2439 ppm	0.0367 ppm	0.0677 ppm	0.3918 ppm	0.0039 ppm	16.0216 ppm
Concentration RSD	2.5 %	2.2 %	4.3 %	0.3 %	2.1 %	2.9 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0027 ppm	0.0369 ppm	0.1718 ppm	**88.1072 ppm**	79.9030 ppm	0.9743 ppm	0.0090 ppm
Concentration per Run 1	0.0028 ppm	0.0368 ppm	0.1719 ppm	88.9558 ppm	80.0962 ppm	0.9856 ppm	0.0078 ppm
Concentration per Run 2	0.0027 ppm	0.0370 ppm	0.1719 ppm	87.6808 ppm	81.5419 ppm	0.9832 ppm	0.0090 ppm
Concentration per Run 3	0.0027 ppm	0.0370 ppm	0.1718 ppm	87.6851 ppm	78.0707 ppm	0.9540 ppm	0.0102 ppm
Concentration RSD	0.4 %	0.3 %	0.0 %	0.8 %	2.2 %	1.8 %	13.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.2335 ppm	0.5883 ppm	0.0856 ppm	1.3280 ppm	0.2229 ppm	0.4989 ppm	0.0058 ppm
Concentration per Run 1	3.2365 ppm	0.5901 ppm	0.0846 ppm	1.3428 ppm	0.2224 ppm	0.4972 ppm	0.0057 ppm
Concentration per Run 2	3.2279 ppm	0.6007 ppm	0.0856 ppm	1.3447 ppm	0.2232 ppm	0.4989 ppm	0.0055 ppm
Concentration per Run 3	3.2361 ppm	0.5740 ppm	0.0865 ppm	1.2964 ppm	0.2231 ppm	0.5005 ppm	0.0061 ppm
Concentration RSD	0.2 %	2.3 %	1.1 %	2.1 %	0.2 %	0.3 %	5.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0008 ppm	2.4258 ppm	0.1578 ppm	0.1358 ppm	0.3687 ppm	0.0009 ppm	0.0213 ppm
Concentration per Run 1	-0.0018 ppm	2.4214 ppm	0.1579 ppm	0.1363 ppm	0.3691 ppm	0.0019 ppm	0.0212 ppm
Concentration per Run 2	0.0014 ppm	2.4275 ppm	0.1579 ppm	0.1386 ppm	0.3690 ppm	-0.0003 ppm	0.0210 ppm
Concentration per Run 3	0.0026 ppm	2.4284 ppm	0.1575 ppm	0.1324 ppm	0.3678 ppm	0.0011 ppm	0.0216 ppm
Concentration RSD	302.9 %	0.2 %	0.2 %	2.3 %	0.2 %	126.8 %	1.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	**21.8293 ppm**	97.6972 %	100.8100 %	**46.7601 %**	101.8706 %	97.6290 %	101.6579 %
Concentration per Run 1	21.7949 ppm	96.5268 %	100.7732 %	**46.9231 %**	100.0935 %	97.6799 %	101.5274 %
Concentration per Run 2	21.8503 ppm	95.8827 %	100.7144 %	**46.6927 %**	100.0651 %	97.7428 %	101.7657 %
Concentration per Run 3	21.8426 ppm	100.6821 %	100.9424 %	**46.6645 %**	105.4533 %	97.4644 %	101.6805 %
Concentration RSD	0.1 %	2.7 %	0.1 %	**0.3 %**	3.0 %	0.1 %	0.1 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453855-02d2 WG1975237
Analysis started at: 9/26/2024 3:42:51 PM
Comments <Comment>
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0185 ppm	67.8436 ppm	0.6188 ppm	0.3297 ppm	0.7414 ppm	0.0167 ppm	62.7618 ppm
Concentration per Run 1	0.0182 ppm	69.1984 ppm	0.6234 ppm	0.3318 ppm	0.7562 ppm	0.0170 ppm	64.0203 ppm
Concentration per Run 2	0.0187 ppm	67.6010 ppm	0.6206 ppm	0.3302 ppm	0.7383 ppm	0.0165 ppm	62.4987 ppm
Concentration per Run 3	0.0186 ppm	66.7313 ppm	0.6123 ppm	0.3270 ppm	0.7297 ppm	0.0165 ppm	61.7663 ppm
Concentration RSD	1.5 %	1.8 %	0.9 %	0.7 %	1.8 %	1.8 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0292 ppm	0.3520 ppm	1.0558 ppm	**28.7257 ppm**	**485.2109 ppm**	12.4850 ppm	0.0620 ppm
Concentration per Run 1	0.0297 ppm	0.3551 ppm	1.0551 ppm	28.6259 ppm	490.6462 ppm	12.7438 ppm	0.0634 ppm
Concentration per Run 2	0.0292 ppm	0.3514 ppm	1.0556 ppm	28.6205 ppm	482.0253 ppm	12.4440 ppm	0.0617 ppm
Concentration per Run 3	0.0288 ppm	0.3496 ppm	1.0567 ppm	28.9308 ppm	482.9612 ppm	12.2672 ppm	0.0609 ppm
Concentration RSD	1.7 %	0.8 %	0.1 %	0.6 %	1.0 %	1.9 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	50.6431 ppm	2.8815 ppm	1.2673 ppm	48.7857 ppm	1.0200 ppm	4.1109 ppm	0.1764 ppm
Concentration per Run 1	50.6055 ppm	2.9415 ppm	1.2709 ppm	49.7458 ppm	1.0292 ppm	4.1465 ppm	0.1767 ppm
Concentration per Run 2	50.6786 ppm	2.8699 ppm	1.2664 ppm	48.6216 ppm	1.0189 ppm	4.1106 ppm	0.1786 ppm
Concentration per Run 3	50.6454 ppm	2.8329 ppm	1.2645 ppm	47.9898 ppm	1.0117 ppm	4.0755 ppm	0.1739 ppm
Concentration RSD	0.1 %	1.9 %	0.3 %	1.8 %	0.9 %	0.9 %	1.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0133 ppm	19.9302 ppm	0.6163 ppm	0.4682 ppm	4.3810 ppm	0.0062 ppm	0.5001 ppm
Concentration per Run 1	0.0110 ppm	20.0869 ppm	0.6222 ppm	0.4776 ppm	4.3805 ppm	0.0057 ppm	0.4993 ppm
Concentration per Run 2	0.0150 ppm	19.9090 ppm	0.6166 ppm	0.4669 ppm	4.3818 ppm	0.0075 ppm	0.5009 ppm
Concentration per Run 3	0.0139 ppm	19.7947 ppm	0.6101 ppm	0.4600 ppm	4.3808 ppm	0.0055 ppm	0.5002 ppm
Concentration RSD	15.6 %	0.7 %	1.0 %	1.9 %	0.0 %	17.8 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	**30.1386 ppm**	122.7061 %	117.6153 %	104.4646 %	112.7976 %	93.0669 %	101.3362 %
Concentration per Run 1	30.2785 ppm	120.7931 %	117.9666 %	104.9314 %	111.7611 %	92.9369 %	101.7332 %
Concentration per Run 2	30.1127 ppm	123.1317 %	117.3943 %	104.3242 %	112.9262 %	92.9821 %	101.1469 %
Concentration per Run 3	30.0247 ppm	124.1934 %	117.4849 %	104.1380 %	113.7055 %	93.2817 %	101.1286 %
Concentration RSD	0.4 %	1.4 %	0.3 %	0.4 %	0.9 %	0.2 %	0.3 %

LabBook: WG1976666_09262024T5.imexp

Sample: I2453869-04 WG1976148
Analysis started at: 9/26/2024 3:49:19 PM
Comments <Comment>
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.0203 ppm	0.0014 ppm	0.0403 ppm	0.0360 ppm	0.0000 ppm	9.3456 ppm
Concentration per Run 1	0.0005 ppm	0.0186 ppm	0.0006 ppm	0.0409 ppm	0.0383 ppm	-0.0001 ppm	9.9191 ppm
Concentration per Run 2	0.0005 ppm	0.0197 ppm	0.0013 ppm	0.0399 ppm	0.0355 ppm	0.0000 ppm	9.1671 ppm
Concentration per Run 3	0.0008 ppm	0.0225 ppm	0.0024 ppm	0.0401 ppm	0.0343 ppm	0.0000 ppm	8.9507 ppm
Concentration RSD	26.3 %	10.0 %	64.8 %	1.3 %	5.6 %	23.1 %	5.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0036 ppm	0.1921 ppm	3.4628 ppm	-0.0016 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0003 ppm	0.0039 ppm	0.2371 ppm	3.6831 ppm	-0.0037 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0035 ppm	0.1567 ppm	3.4230 ppm	-0.0036 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0033 ppm	0.1824 ppm	3.2823 ppm	0.0025 ppm
Concentration RSD	40.2 %	201.2 %	72.3 %	9.1 %	21.4 %	5.9 %	223.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.5718 ppm	0.0094 ppm	0.0047 ppm	19.5839 ppm	0.0006 ppm	-0.0011 ppm	0.0026 ppm
Concentration per Run 1	2.5702 ppm	0.0099 ppm	0.0051 ppm	20.7657 ppm	0.0006 ppm	-0.0016 ppm	0.0032 ppm
Concentration per Run 2	2.5638 ppm	0.0089 ppm	0.0047 ppm	19.2417 ppm	0.0005 ppm	-0.0013 ppm	0.0021 ppm
Concentration per Run 3	2.5815 ppm	0.0094 ppm	0.0042 ppm	18.7444 ppm	0.0006 ppm	-0.0003 ppm	0.0024 ppm
Concentration RSD	0.3 %	5.1 %	10.2 %	5.4 %	9.4 %	63.2 %	21.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0015 ppm	1.1757 ppm	0.0009 ppm	0.0829 ppm	0.0011 ppm	-0.0027 ppm	0.0004 ppm
Concentration per Run 1	-0.0018 ppm	1.1747 ppm	0.0007 ppm	0.0877 ppm	0.0016 ppm	-0.0022 ppm	0.0003 ppm
Concentration per Run 2	-0.0025 ppm	1.1770 ppm	0.0006 ppm	0.0817 ppm	0.0008 ppm	-0.0026 ppm	0.0004 ppm
Concentration per Run 3	-0.0003 ppm	1.1752 ppm	0.0012 ppm	0.0793 ppm	0.0010 ppm	-0.0032 ppm	0.0003 ppm
Concentration RSD	75.1 %	0.1 %	35.4 %	5.2 %	39.5 %	18.6 %	21.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0018 ppm	95.4924 %	98.6949 %	97.7785 %	102.4107 %	96.4926 %	100.9554 %
Concentration per Run 1	0.0021 ppm	89.9739 %	98.6445 %	97.7165 %	97.8583 %	96.2597 %	100.8418 %
Concentration per Run 2	0.0019 ppm	97.5237 %	98.9170 %	97.7710 %	104.0902 %	96.3730 %	101.2580 %
Concentration per Run 3	0.0015 ppm	98.9796 %	98.5233 %	97.8480 %	105.2835 %	96.8452 %	100.7664 %
Concentration RSD	16.6 %	5.1 %	0.2 %	0.1 %	3.9 %	0.3 %	0.3 %

LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/26/2024 3:55:35 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5439 ppm	0.5191 ppm	0.5138 ppm	0.5213 ppm	0.5143 ppm	0.5273 ppm	0.5216 ppm
Concentration per Run 1	0.5455 ppm	0.5099 ppm	0.5166 ppm	0.5216 ppm	0.5102 ppm	0.5238 ppm	0.5222 ppm
Concentration per Run 2	0.5429 ppm	0.5179 ppm	0.5135 ppm	0.5211 ppm	0.5202 ppm	0.5324 ppm	0.5209 ppm
Concentration per Run 3	0.5432 ppm	0.5296 ppm	0.5114 ppm	0.5214 ppm	0.5125 ppm	0.5256 ppm	0.5217 ppm
Recovery Percentage 1	108.773 %	103.822 %	102.764 %	104.270 %	102.859 %	105.456 %	104.320 %
Concentration RSD	0.3 %	1.9 %	0.5 %	0.0 %	1.0 %	0.9 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5107 ppm	0.5239 ppm	0.5265 ppm	0.5187 ppm	0.5443 ppm	5.4472 ppm	0.5222 ppm
Concentration per Run 1	0.5121 ppm	0.5250 ppm	0.5274 ppm	0.5187 ppm	0.5399 ppm	5.4020 ppm	0.5197 ppm
Concentration per Run 2	0.5109 ppm	0.5241 ppm	0.5275 ppm	0.5195 ppm	0.5487 ppm	5.5059 ppm	0.5269 ppm
Concentration per Run 3	0.5092 ppm	0.5227 ppm	0.5246 ppm	0.5180 ppm	0.5444 ppm	5.4336 ppm	0.5201 ppm
Recovery Percentage 1	102.141 %	104.787 %	105.297 %	103.747 %	108.864 %	108.943 %	104.444 %
Concentration RSD	0.3 %	0.2 %	0.3 %	0.1 %	0.8 %	1.0 %	0.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5305 ppm	0.5195 ppm	0.5090 ppm	10.4724 ppm	0.5264 ppm	0.5262 ppm	0.5295 ppm
Concentration per Run 1	0.5274 ppm	0.5160 ppm	0.5056 ppm	10.4268 ppm	0.5278 ppm	0.5280 ppm	0.5294 ppm
Concentration per Run 2	0.5346 ppm	0.5239 ppm	0.5095 ppm	10.5708 ppm	0.5265 ppm	0.5261 ppm	0.5301 ppm
Concentration per Run 3	0.5294 ppm	0.5186 ppm	0.5120 ppm	10.4194 ppm	0.5248 ppm	0.5246 ppm	0.5290 ppm
Recovery Percentage 1	106.096 %	103.903 %	101.810 %	104.724 %	105.271 %	105.245 %	105.903 %
Concentration RSD	0.7 %	0.8 %	0.6 %	0.8 %	0.3 %	0.3 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5300 ppm	5.7760 ppm	0.4928 ppm	0.4921 ppm	0.5326 ppm	0.5208 ppm	0.5156 ppm
Concentration per Run 1	0.5303 ppm	5.7865 ppm	0.4943 ppm	0.4898 ppm	0.5321 ppm	0.5224 ppm	0.5159 ppm
Concentration per Run 2	0.5298 ppm	5.7780 ppm	0.4929 ppm	0.4970 ppm	0.5332 ppm	0.5214 ppm	0.5163 ppm
Concentration per Run 3	0.5299 ppm	5.7635 ppm	0.4912 ppm	0.4895 ppm	0.5324 ppm	0.5185 ppm	0.5148 ppm
Recovery Percentage 1	106.004 %	110.019 %	98.563 %	98.421 %	106.511 %	104.156 %	103.129 %
Concentration RSD	0.1 %	0.2 %	0.3 %	0.9 %	0.1 %	0.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5197 ppm	96.7644 %	97.3910 %	97.0301 %	103.9746 %	98.2368 %	100.2846 %
Concentration per Run 1	0.5211 ppm	97.1605 %	97.5388 %	97.1760 %	103.2129 %	98.1976 %	100.4022 %
Concentration per Run 2	0.5198 ppm	96.4592 %	96.9118 %	96.9509 %	104.2033 %	98.2122 %	99.7610 %
Concentration per Run 3	0.5181 ppm	96.6734 %	97.7224 %	96.9634 %	104.5077 %	98.3006 %	100.6907 %
Recovery Percentage 1	103.932 %						
Concentration RSD	0.3 %	0.4 %	0.4 %	0.1 %	0.7 %	0.1 %	0.5 %

LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/26/2024 4:01:38 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0040 ppm	0.0006 ppm	0.0011 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 1	0.0005 ppm	-0.0060 ppm	0.0001 ppm	0.0014 ppm	0.0005 ppm	0.0001 ppm	-0.0017 ppm
Concentration per Run 2	0.0001 ppm	-0.0056 ppm	0.0017 ppm	0.0012 ppm	0.0000 ppm	0.0001 ppm	0.0047 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0007 ppm	-0.0002 ppm	0.0000 ppm	-0.0014 ppm
Recovery Percentage 1	3.232 %	-3.987 %	12.558 %	3.745 %	1.055 %	1.323 %	0.529 %
Concentration RSD	92.0 %	77.3 %	153.4 %	31.2 %	311.6 %	52.3 %	688.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0026 ppm	-0.0598 ppm	-0.0023 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0028 ppm	-0.0673 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0054 ppm	-0.0774 ppm	-0.0029 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0005 ppm	-0.0003 ppm	-0.0349 ppm	-0.0039 ppm
Recovery Percentage 1	-0.516 %	0.504 %	-0.613 %	3.943 %	5.280 %	-2.394 %	-22.538 %
Concentration RSD	123.2 %	121.2 %	91.6 %	54.9 %	107.4 %	37.1 %	93.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0017 ppm	0.0001 ppm	0.0022 ppm	0.0009 ppm	0.0005 ppm	-0.0007 ppm	0.0020 ppm
Concentration per Run 1	-0.0004 ppm	0.0007 ppm	0.0024 ppm	0.0114 ppm	0.0002 ppm	-0.0011 ppm	0.0014 ppm
Concentration per Run 2	-0.0040 ppm	-0.0003 ppm	0.0022 ppm	0.0018 ppm	0.0004 ppm	-0.0005 ppm	0.0023 ppm
Concentration per Run 3	-0.0008 ppm	-0.0002 ppm	0.0020 ppm	-0.0103 ppm	0.0007 ppm	-0.0006 ppm	0.0023 ppm
Recovery Percentage 1	-1.712 %	0.664 %	4.404 %	0.047 %	1.806 %	-7.094 %	4.029 %
Concentration RSD	115.2 %	816.2 %	9.4 %	1,165.1 %	55.2 %	42.5 %	25.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	0.0024 ppm	0.0007 ppm	0.0001 ppm	-0.0001 ppm	-0.0011 ppm	0.0002 ppm
Concentration per Run 1	0.0009 ppm	0.0018 ppm	0.0014 ppm	0.0001 ppm	-0.0004 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 2	-0.0001 ppm	0.0030 ppm	0.0003 ppm	0.0001 ppm	-0.0002 ppm	-0.0013 ppm	0.0004 ppm
Concentration per Run 3	0.0008 ppm	0.0025 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	-0.0010 ppm	0.0003 ppm
Recovery Percentage 1	5.383 %	0.482 %	1.416 %	0.716 %	-1.224 %	-5.679 %	2.386 %
Concentration RSD	98.8 %	25.6 %	82.8 %	47.3 %	281.0 %	13.5 %	72.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0005 ppm	96.7046 %	99.4594 %	98.8458 %	98.8326 %	99.0411 %	99.7381 %
Concentration per Run 1	0.0005 ppm	93.9167 %	99.7434 %	99.0190 %	95.7718 %	98.6503 %	99.7727 %
Concentration per Run 2	0.0005 ppm	98.1237 %	99.3226 %	98.9946 %	99.3924 %	99.2332 %	99.5380 %
Concentration per Run 3	0.0004 ppm	98.0733 %	99.3121 %	98.5237 %	101.3338 %	99.2397 %	99.9038 %
Recovery Percentage 1	9.564 %						
Concentration RSD	16.7 %	2.5 %	0.2 %	0.3 %	2.9 %	0.3 %	0.2 %

LabBook: WG1976666_09262024T5.imexp

Sample: WG1976148-1 WG1976148
Analysis started at: 9/26/2024 4:12:01 PM
Comments <Comment>
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	-0.0057 ppm	-0.0012 ppm	0.0015 ppm	-0.0001 ppm	0.0000 ppm	0.0094 ppm
Concentration per Run 1	0.0004 ppm	0.0087 ppm	-0.0020 ppm	0.0017 ppm	-0.0001 ppm	0.0000 ppm	0.0111 ppm
Concentration per Run 2	0.0011 ppm	-0.0172 ppm	-0.0017 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0066 ppm
Concentration per Run 3	0.0001 ppm	-0.0087 ppm	0.0001 ppm	0.0013 ppm	-0.0001 ppm	-0.0001 ppm	0.0105 ppm
Concentration RSD	95.0 %	230.7 %	92.2 %	14.5 %	79.3 %	514.6 %	25.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0027 ppm	-0.0699 ppm	-0.0023 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0004 ppm	-0.0002 ppm	0.0029 ppm	-0.0633 ppm	-0.0030 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0005 ppm	0.0025 ppm	-0.1071 ppm	-0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0025 ppm	-0.0393 ppm	-0.0021 ppm
Concentration RSD	933.4 %	3,231.8 %	356.8 %	40.6 %	7.9 %	49.2 %	30.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0007 ppm	0.0000 ppm	0.0007 ppm	-0.0002 ppm	0.0001 ppm	-0.0007 ppm	0.0010 ppm
Concentration per Run 1	0.0017 ppm	-0.0002 ppm	0.0007 ppm	0.0045 ppm	-0.0002 ppm	-0.0010 ppm	0.0027 ppm
Concentration per Run 2	-0.0001 ppm	-0.0002 ppm	0.0007 ppm	0.0068 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 3	0.0006 ppm	0.0002 ppm	0.0008 ppm	-0.0120 ppm	0.0005 ppm	-0.0011 ppm	0.0004 ppm
Concentration RSD	129.5 %	530.6 %	11.7 %	4,477.5 %	437.9 %	99.3 %	159.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	0.0081 ppm	0.0006 ppm	0.0000 ppm	-0.0002 ppm	-0.0026 ppm	0.0002 ppm
Concentration per Run 1	0.0012 ppm	0.0086 ppm	0.0007 ppm	-0.0001 ppm	-0.0006 ppm	-0.0025 ppm	0.0005 ppm
Concentration per Run 2	-0.0016 ppm	0.0082 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	-0.0025 ppm	0.0000 ppm
Concentration per Run 3	-0.0015 ppm	0.0075 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0026 ppm	0.0000 ppm
Concentration RSD	248.6 %	6.5 %	69.6 %	285.4 %	141.0 %	2.5 %	162.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0015 ppm	96.4353 %	99.4656 %	98.2307 %	104.5781 %	96.7609 %	101.5636 %
Concentration per Run 1	0.0015 ppm	93.9862 %	100.6450 %	97.6025 %	102.9693 %	96.0806 %	102.7432 %
Concentration per Run 2	0.0015 ppm	96.7834 %	99.3367 %	97.8489 %	104.1896 %	96.4242 %	101.3587 %
Concentration per Run 3	0.0015 ppm	98.5362 %	98.4152 %	99.2407 %	106.5753 %	97.7780 %	100.5888 %
Concentration RSD	0.9 %	2.4 %	1.1 %	0.9 %	1.8 %	0.9 %	1.1 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1976148-3 WG1976148
Analysis started at: 9/26/2024 4:18:20 PM
Comments <Comment>
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0487 ppm	1.9377 ppm	0.1163 ppm	0.9795 ppm	1.9673 ppm	0.0504 ppm	18.7068 ppm
Concentration per Run 1	0.0486 ppm	1.9978 ppm	0.1154 ppm	0.9814 ppm	2.0456 ppm	0.0521 ppm	19.4216 ppm
Concentration per Run 2	0.0495 ppm	1.9231 ppm	0.1142 ppm	0.9746 ppm	1.9421 ppm	0.0499 ppm	18.4907 ppm
Concentration per Run 3	0.0480 ppm	1.8920 ppm	0.1194 ppm	0.9824 ppm	1.9141 ppm	0.0490 ppm	18.2080 ppm
Concentration RSD	1.6 %	2.8 %	2.3 %	0.4 %	3.5 %	3.2 %	3.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0512 ppm	0.4826 ppm	0.1951 ppm	0.2508 ppm	1.0135 ppm	13.4320 ppm	0.0004 ppm
Concentration per Run 1	0.0513 ppm	0.4836 ppm	0.1946 ppm	0.2489 ppm	1.0477 ppm	13.9830 ppm	0.0002 ppm
Concentration per Run 2	0.0509 ppm	0.4807 ppm	0.1986 ppm	0.2551 ppm	1.0019 ppm	13.2169 ppm	-0.0007 ppm
Concentration per Run 3	0.0514 ppm	0.4835 ppm	0.1921 ppm	0.2484 ppm	0.9909 ppm	13.0961 ppm	0.0017 ppm
Concentration RSD	0.5 %	0.3 %	1.7 %	1.5 %	3.0 %	3.6 %	309.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	11.9350 ppm	0.5015 ppm	1.0013 ppm	29.0466 ppm	0.4843 ppm	0.5180 ppm	0.4948 ppm
Concentration per Run 1	11.8726 ppm	0.5204 ppm	1.0000 ppm	30.1846 ppm	0.4853 ppm	0.5186 ppm	0.4962 ppm
Concentration per Run 2	12.1404 ppm	0.4960 ppm	0.9971 ppm	28.6880 ppm	0.4825 ppm	0.5156 ppm	0.4935 ppm
Concentration per Run 3	11.7920 ppm	0.4882 ppm	1.0069 ppm	28.2671 ppm	0.4851 ppm	0.5198 ppm	0.4949 ppm
Concentration RSD	1.5 %	3.4 %	0.5 %	3.5 %	0.3 %	0.4 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1131 ppm	2.0116 ppm	0.9249 ppm	1.0109 ppm	0.9884 ppm	0.1115 ppm	0.4851 ppm
Concentration per Run 1	0.1142 ppm	2.0197 ppm	0.9275 ppm	1.0504 ppm	0.9849 ppm	0.1103 ppm	0.4836 ppm
Concentration per Run 2	0.1116 ppm	1.9993 ppm	0.9213 ppm	0.9984 ppm	1.0042 ppm	0.1111 ppm	0.4926 ppm
Concentration per Run 3	0.1134 ppm	2.0157 ppm	0.9260 ppm	0.9839 ppm	0.9762 ppm	0.1129 ppm	0.4790 ppm
Concentration RSD	1.1 %	0.5 %	0.3 %	3.5 %	1.5 %	1.2 %	1.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4782 ppm	96.2879 %	96.8714 %	96.4184 %	106.3157 %	96.4972 %	100.6481 %
Concentration per Run 1	0.4792 ppm	92.7332 %	96.8280 %	96.4958 %	103.9014 %	96.3843 %	100.9879 %
Concentration per Run 2	0.4756 ppm	97.4785 %	95.0078 %	96.7067 %	106.8806 %	96.9155 %	98.8750 %
Concentration per Run 3	0.4798 ppm	98.6521 %	98.7784 %	96.0527 %	108.1652 %	96.1920 %	102.0815 %
Concentration RSD	0.5 %	3.3 %	1.9 %	0.3 %	2.1 %	0.4 %	1.6 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1976148-4 WG1976148
Analysis started at: 9/26/2024 4:24:27 PM
Comments <Comment>
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0088 ppm	-0.0010 ppm	0.0396 ppm	0.0362 ppm	0.0000 ppm	9.1739 ppm
Concentration per Run 1	0.0010 ppm	0.0090 ppm	0.0004 ppm	0.0394 ppm	0.0383 ppm	0.0000 ppm	9.6584 ppm
Concentration per Run 2	0.0001 ppm	0.0118 ppm	-0.0009 ppm	0.0400 ppm	0.0355 ppm	0.0000 ppm	9.0376 ppm
Concentration per Run 3	-0.0004 ppm	0.0055 ppm	-0.0024 ppm	0.0394 ppm	0.0348 ppm	0.0000 ppm	8.8257 ppm
Concentration RSD	273.2 %	36.0 %	142.8 %	0.9 %	5.1 %	116.4 %	4.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0011 ppm	0.0074 ppm	3.4060 ppm	-0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0011 ppm	0.0087 ppm	3.6325 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0011 ppm	0.0070 ppm	3.3348 ppm	-0.0021 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0011 ppm	0.0066 ppm	3.2508 ppm	-0.0007 ppm
Concentration RSD	91.5 %	239.0 %	86.1 %	2.0 %	15.1 %	5.9 %	138.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.4773 ppm	0.0089 ppm	0.0040 ppm	19.4172 ppm	0.0004 ppm	-0.0011 ppm	0.0021 ppm
Concentration per Run 1	2.4714 ppm	0.0093 ppm	0.0044 ppm	20.4433 ppm	0.0004 ppm	-0.0014 ppm	0.0013 ppm
Concentration per Run 2	2.4816 ppm	0.0088 ppm	0.0040 ppm	19.1184 ppm	0.0005 ppm	-0.0010 ppm	0.0036 ppm
Concentration per Run 3	2.4789 ppm	0.0087 ppm	0.0036 ppm	18.6900 ppm	0.0002 ppm	-0.0009 ppm	0.0012 ppm
Concentration RSD	0.2 %	3.5 %	9.1 %	4.7 %	40.2 %	26.3 %	66.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0012 ppm	1.1273 ppm	0.0005 ppm	0.0822 ppm	0.0004 ppm	-0.0026 ppm	0.0005 ppm
Concentration per Run 1	0.0008 ppm	1.1258 ppm	0.0008 ppm	0.0863 ppm	0.0009 ppm	-0.0030 ppm	0.0006 ppm
Concentration per Run 2	-0.0041 ppm	1.1251 ppm	0.0004 ppm	0.0810 ppm	0.0001 ppm	-0.0032 ppm	0.0003 ppm
Concentration per Run 3	-0.0003 ppm	1.1309 ppm	0.0005 ppm	0.0791 ppm	0.0002 ppm	-0.0016 ppm	0.0007 ppm
Concentration RSD	212.3 %	0.3 %	37.0 %	4.6 %	122.8 %	32.7 %	33.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	93.8714 %	97.7907 %	96.6150 %	102.1894 %	97.0143 %	101.5769 %
Concentration per Run 1	0.0008 ppm	89.2879 %	97.8098 %	96.9502 %	98.7525 %	97.3308 %	101.6364 %
Concentration per Run 2	0.0008 ppm	94.8742 %	97.6645 %	96.2854 %	102.4153 %	96.8390 %	101.3968 %
Concentration per Run 3	0.0006 ppm	97.4520 %	97.8980 %	96.6094 %	105.4004 %	96.8731 %	101.6973 %
Concentration RSD	14.5 %	4.4 %	0.1 %	0.3 %	3.3 %	0.3 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1976148-5 WG1976148
Analysis started at: 9/26/2024 4:30:38 PM
Comments <Comment>
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0507 ppm	1.9928 ppm	0.1171 ppm	0.9985 ppm	2.0350 ppm	0.0518 ppm	19.0294 ppm
Concentration per Run 1	0.0509 ppm	2.0534 ppm	0.1165 ppm	0.9983 ppm	2.1058 ppm	0.0533 ppm	19.6451 ppm
Concentration per Run 2	0.0510 ppm	1.9764 ppm	0.1169 ppm	0.9961 ppm	2.0141 ppm	0.0515 ppm	18.8351 ppm
Concentration per Run 3	0.0502 ppm	1.9487 ppm	0.1179 ppm	1.0011 ppm	1.9850 ppm	0.0506 ppm	18.6078 ppm
Concentration RSD	0.9 %	2.7 %	0.6 %	0.3 %	3.1 %	2.7 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0513 ppm	0.4899 ppm	0.1986 ppm	0.2534 ppm	1.0420 ppm	13.8609 ppm	-0.0015 ppm
Concentration per Run 1	0.0512 ppm	0.4897 ppm	0.1977 ppm	0.2529 ppm	1.0740 ppm	14.3126 ppm	-0.0023 ppm
Concentration per Run 2	0.0512 ppm	0.4891 ppm	0.1998 ppm	0.2548 ppm	1.0318 ppm	13.7077 ppm	-0.0003 ppm
Concentration per Run 3	0.0514 ppm	0.4909 ppm	0.1983 ppm	0.2524 ppm	1.0203 ppm	13.5625 ppm	-0.0019 ppm
Concentration RSD	0.2 %	0.2 %	0.6 %	0.5 %	2.7 %	2.9 %	69.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	12.0933 ppm	0.5173 ppm	1.0345 ppm	29.3439 ppm	0.4906 ppm	0.5223 ppm	0.4961 ppm
Concentration per Run 1	12.0818 ppm	0.5346 ppm	1.0297 ppm	30.3338 ppm	0.4913 ppm	0.5221 ppm	0.4964 ppm
Concentration per Run 2	12.1435 ppm	0.5124 ppm	1.0335 ppm	29.0476 ppm	0.4899 ppm	0.5224 ppm	0.4948 ppm
Concentration per Run 3	12.0547 ppm	0.5049 ppm	1.0403 ppm	28.6502 ppm	0.4906 ppm	0.5224 ppm	0.4971 ppm
Concentration RSD	0.4 %	3.0 %	0.5 %	3.0 %	0.1 %	0.0 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1146 ppm	1.7163 ppm	0.9555 ppm	1.0528 ppm	1.0096 ppm	0.1145 ppm	0.4903 ppm
Concentration per Run 1	0.1163 ppm	1.7168 ppm	0.9568 ppm	1.0892 ppm	1.0075 ppm	0.1145 ppm	0.4904 ppm
Concentration per Run 2	0.1134 ppm	1.7136 ppm	0.9535 ppm	1.0414 ppm	1.0149 ppm	0.1148 ppm	0.4923 ppm
Concentration per Run 3	0.1142 ppm	1.7184 ppm	0.9563 ppm	1.0279 ppm	1.0063 ppm	0.1143 ppm	0.4882 ppm
Concentration RSD	1.3 %	0.1 %	0.2 %	3.1 %	0.5 %	0.2 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4853 ppm	96.9033 %	97.6579 %	96.5249 %	107.3749 %	96.9250 %	101.5682 %
Concentration per Run 1	0.4852 ppm	93.7663 %	97.7846 %	96.5798 %	104.8381 %	97.0455 %	101.5512 %
Concentration per Run 2	0.4846 ppm	98.0940 %	97.3024 %	96.8263 %	108.3131 %	97.0637 %	101.3187 %
Concentration per Run 3	0.4861 ppm	98.8495 %	97.8868 %	96.1685 %	108.9733 %	96.6658 %	101.8345 %
Concentration RSD	0.2 %	2.8 %	0.3 %	0.3 %	2.1 %	0.2 %	0.3 %

LabBook: WG1976666_09262024T5.imexp

Sample: WG1976148-6D5 WG1976148
Analysis started at: 9/26/2024 4:36:41 PM
Comments <Comment>
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0070 ppm	-0.0002 ppm	0.0098 ppm	0.0072 ppm	0.0000 ppm	1.8059 ppm
Concentration per Run 1	0.0005 ppm	0.0061 ppm	0.0004 ppm	0.0100 ppm	0.0074 ppm	0.0000 ppm	1.8074 ppm
Concentration per Run 2	-0.0001 ppm	0.0074 ppm	-0.0001 ppm	0.0099 ppm	0.0070 ppm	0.0000 ppm	1.8066 ppm
Concentration per Run 3	0.0005 ppm	0.0076 ppm	-0.0009 ppm	0.0096 ppm	0.0073 ppm	0.0000 ppm	1.8038 ppm
Concentration RSD	115.6 %	11.7 %	300.6 %	2.1 %	3.0 %	14,422.0 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0016 ppm	0.6233 ppm	-0.0014 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0004 ppm	0.0006 ppm	0.6343 ppm	-0.0031 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0009 ppm	0.6192 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0033 ppm	0.6162 ppm	-0.0004 ppm
Concentration RSD	459.2 %	198.5 %	312.3 %	249.0 %	89.9 %	1.6 %	102.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5251 ppm	0.0016 ppm	0.0030 ppm	3.8545 ppm	0.0003 ppm	-0.0011 ppm	0.0048 ppm
Concentration per Run 1	0.5263 ppm	0.0017 ppm	0.0035 ppm	3.8687 ppm	0.0003 ppm	-0.0021 ppm	0.0041 ppm
Concentration per Run 2	0.5247 ppm	0.0020 ppm	0.0031 ppm	3.8415 ppm	0.0003 ppm	-0.0003 ppm	0.0063 ppm
Concentration per Run 3	0.5243 ppm	0.0012 ppm	0.0025 ppm	3.8534 ppm	0.0002 ppm	-0.0009 ppm	0.0041 ppm
Concentration RSD	0.2 %	23.9 %	15.4 %	0.4 %	32.7 %	82.2 %	26.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0003 ppm	0.2306 ppm	0.0005 ppm	0.0161 ppm	0.0003 ppm	-0.0016 ppm	0.0001 ppm
Concentration per Run 1	0.0002 ppm	0.2320 ppm	0.0007 ppm	0.0161 ppm	0.0003 ppm	-0.0020 ppm	-0.0001 ppm
Concentration per Run 2	0.0006 ppm	0.2306 ppm	0.0005 ppm	0.0162 ppm	0.0005 ppm	-0.0018 ppm	0.0004 ppm
Concentration per Run 3	-0.0018 ppm	0.2291 ppm	0.0005 ppm	0.0160 ppm	0.0002 ppm	-0.0011 ppm	0.0001 ppm
Concentration RSD	400.9 %	0.6 %	26.3 %	0.8 %	35.9 %	30.4 %	217.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	99.9781 %	99.1738 %	98.0257 %	107.6993 %	100.1537 %	102.5313 %
Concentration per Run 1	0.0003 ppm	98.9782 %	98.5543 %	98.1483 %	106.2279 %	100.0003 %	101.9696 %
Concentration per Run 2	0.0004 ppm	100.6659 %	99.9159 %	98.0864 %	108.3013 %	100.2627 %	103.3112 %
Concentration per Run 3	0.0004 ppm	100.2903 %	99.0512 %	97.8423 %	108.5688 %	100.1982 %	102.3132 %
Concentration RSD	15.9 %	0.9 %	0.7 %	0.2 %	1.2 %	0.1 %	0.7 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453855-01d100 WG1975237
Analysis started at: 9/26/2024 4:42:55 PM
Comments <Comment>
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0013 ppm	1.4140 ppm	0.0066 ppm	0.0135 ppm	0.0757 ppm	0.0007 ppm	3.1405 ppm
Concentration per Run 1	0.0016 ppm	1.4269 ppm	0.0068 ppm	0.0134 ppm	0.0773 ppm	0.0006 ppm	3.1984 ppm
Concentration per Run 2	0.0010 ppm	1.4069 ppm	0.0071 ppm	0.0137 ppm	0.0750 ppm	0.0008 ppm	3.1159 ppm
Concentration per Run 3	0.0013 ppm	1.4082 ppm	0.0058 ppm	0.0135 ppm	0.0748 ppm	0.0007 ppm	3.1072 ppm
Concentration RSD	24.2 %	0.8 %	10.2 %	1.1 %	1.9 %	8.6 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0005 ppm	0.0073 ppm	0.0336 ppm	18.4045 ppm	15.2056 ppm	0.1690 ppm	-0.0007 ppm
Concentration per Run 1	0.0005 ppm	0.0073 ppm	0.0338 ppm	18.4641 ppm	15.3933 ppm	0.1891 ppm	0.0010 ppm
Concentration per Run 2	0.0005 ppm	0.0072 ppm	0.0338 ppm	18.3359 ppm	15.1079 ppm	0.2096 ppm	-0.0018 ppm
Concentration per Run 3	0.0005 ppm	0.0073 ppm	0.0332 ppm	18.4136 ppm	15.1155 ppm	0.1084 ppm	-0.0014 ppm
Concentration RSD	6.5 %	0.9 %	1.1 %	0.4 %	1.1 %	31.7 %	207.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.6302 ppm	0.1118 ppm	0.0172 ppm	0.2571 ppm	0.0429 ppm	0.0915 ppm	0.0030 ppm
Concentration per Run 1	0.6277 ppm	0.1140 ppm	0.0171 ppm	0.2541 ppm	0.0433 ppm	0.0907 ppm	0.0030 ppm
Concentration per Run 2	0.6304 ppm	0.1105 ppm	0.0173 ppm	0.2719 ppm	0.0428 ppm	0.0922 ppm	0.0026 ppm
Concentration per Run 3	0.6324 ppm	0.1109 ppm	0.0172 ppm	0.2454 ppm	0.0427 ppm	0.0917 ppm	0.0033 ppm
Concentration RSD	0.4 %	1.7 %	0.5 %	5.2 %	0.7 %	0.8 %	11.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0007 ppm	0.4705 ppm	0.0298 ppm	0.0262 ppm	0.0709 ppm	-0.0008 ppm	0.0043 ppm
Concentration per Run 1	-0.0019 ppm	0.4691 ppm	0.0296 ppm	0.0266 ppm	0.0711 ppm	-0.0020 ppm	0.0042 ppm
Concentration per Run 2	-0.0004 ppm	0.4724 ppm	0.0300 ppm	0.0260 ppm	0.0709 ppm	-0.0010 ppm	0.0042 ppm
Concentration per Run 3	0.0002 ppm	0.4701 ppm	0.0299 ppm	0.0260 ppm	0.0706 ppm	0.0005 ppm	0.0046 ppm
Concentration RSD	151.0 %	0.4 %	0.7 %	1.2 %	0.4 %	146.8 %	5.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	4.3699 ppm	99.5130 %	99.8546 %	90.9864 %	105.8941 %	101.1355 %	102.9304 %
Concentration per Run 1	4.3816 ppm	98.3392 %	100.0752 %	91.0084 %	104.2312 %	100.8872 %	103.1333 %
Concentration per Run 2	4.3700 ppm	99.8315 %	99.7564 %	91.0648 %	106.0700 %	101.2493 %	102.6897 %
Concentration per Run 3	4.3582 ppm	100.3684 %	99.7320 %	90.8860 %	107.3813 %	101.2699 %	102.9681 %
Concentration RSD	0.3 %	1.1 %	0.2 %	0.1 %	1.5 %	0.2 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453855-02d10 WG1975237
Analysis started at: 9/26/2024 4:49:16 PM
Comments CU Fe Zn ldr
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0039 ppm	15.7266 ppm	0.1176 ppm	0.0659 ppm	0.1705 ppm	0.0039 ppm	14.7993 ppm
Concentration per Run 1	0.0036 ppm	16.0852 ppm	0.1175 ppm	0.0662 ppm	0.1746 ppm	0.0040 ppm	15.1538 ppm
Concentration per Run 2	0.0043 ppm	15.6440 ppm	0.1183 ppm	0.0660 ppm	0.1698 ppm	0.0039 ppm	14.7047 ppm
Concentration per Run 3	0.0038 ppm	15.4507 ppm	0.1170 ppm	0.0655 ppm	0.1673 ppm	0.0038 ppm	14.5394 ppm
Concentration RSD	9.5 %	2.1 %	0.6 %	0.6 %	2.2 %	2.5 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0057 ppm	0.0714 ppm	0.2154 ppm	5.7714 ppm	125.1131 ppm	2.8841 ppm	0.0137 ppm
Concentration per Run 1	0.0057 ppm	0.0716 ppm	0.2149 ppm	5.7764 ppm	127.9881 ppm	2.9408 ppm	0.0148 ppm
Concentration per Run 2	0.0057 ppm	0.0716 ppm	0.2158 ppm	5.7677 ppm	122.7128 ppm	2.8721 ppm	0.0155 ppm
Concentration per Run 3	0.0057 ppm	0.0712 ppm	0.2156 ppm	5.7702 ppm	124.6383 ppm	2.8395 ppm	0.0108 ppm
Concentration RSD	0.3 %	0.3 %	0.2 %	0.1 %	2.1 %	1.8 %	18.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.3252 ppm	0.6887 ppm	0.2458 ppm	11.5345 ppm	0.2009 ppm	0.8358 ppm	0.0334 ppm
Concentration per Run 1	10.3120 ppm	0.7051 ppm	0.2434 ppm	11.7943 ppm	0.2009 ppm	0.8355 ppm	0.0323 ppm
Concentration per Run 2	10.3221 ppm	0.6843 ppm	0.2462 ppm	11.4695 ppm	0.2010 ppm	0.8378 ppm	0.0337 ppm
Concentration per Run 3	10.3415 ppm	0.6767 ppm	0.2476 ppm	11.3399 ppm	0.2008 ppm	0.8342 ppm	0.0344 ppm
Concentration RSD	0.1 %	2.1 %	0.9 %	2.0 %	0.0 %	0.2 %	3.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0016 ppm	3.8310 ppm	0.1221 ppm	0.1093 ppm	0.8651 ppm	0.0018 ppm	0.1001 ppm
Concentration per Run 1	0.0031 ppm	3.8302 ppm	0.1224 ppm	0.1117 ppm	0.8641 ppm	0.0018 ppm	0.0999 ppm
Concentration per Run 2	0.0015 ppm	3.8343 ppm	0.1220 ppm	0.1086 ppm	0.8645 ppm	0.0024 ppm	0.1003 ppm
Concentration per Run 3	0.0002 ppm	3.8283 ppm	0.1218 ppm	0.1075 ppm	0.8665 ppm	0.0011 ppm	0.1001 ppm
Concentration RSD	92.9 %	0.1 %	0.2 %	2.0 %	0.1 %	34.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	6.5356 ppm	101.3730 %	102.0939 %	98.7242 %	108.3669 %	98.1118 %	102.8390 %
Concentration per Run 1	6.5429 ppm	98.9588 %	102.3296 %	98.9088 %	105.5301 %	98.0353 %	103.1297 %
Concentration per Run 2	6.5365 ppm	102.5381 %	101.9156 %	98.6972 %	109.6595 %	98.1304 %	102.6815 %
Concentration per Run 3	6.5275 ppm	102.6220 %	102.0365 %	98.5667 %	109.9111 %	98.1698 %	102.7059 %
Concentration RSD	0.1 %	2.1 %	0.2 %	0.2 %	2.3 %	0.1 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/26/2024 5:04:36 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5375 ppm	0.4970 ppm	0.5072 ppm	0.5148 ppm	0.4910 ppm	0.5033 ppm	0.4907 ppm
Concentration per Run 1	0.5368 ppm	0.4932 ppm	0.5073 ppm	0.5137 ppm	0.4907 ppm	0.5018 ppm	0.4827 ppm
Concentration per Run 2	0.5371 ppm	0.4851 ppm	0.5087 ppm	0.5152 ppm	0.4875 ppm	0.5013 ppm	0.4841 ppm
Concentration per Run 3	0.5385 ppm	0.5128 ppm	0.5055 ppm	0.5155 ppm	0.4947 ppm	0.5068 ppm	0.5053 ppm
Recovery Percentage 1	107.498 %	99.408 %	101.435 %	102.956 %	98.200 %	100.660 %	98.136 %
Concentration RSD	0.2 %	2.9 %	0.3 %	0.2 %	0.7 %	0.6 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5049 ppm	0.5175 ppm	0.5202 ppm	0.5075 ppm	0.5057 ppm	5.2217 ppm	0.5009 ppm
Concentration per Run 1	0.5041 ppm	0.5165 ppm	0.5191 ppm	0.5080 ppm	0.4998 ppm	5.2145 ppm	0.4989 ppm
Concentration per Run 2	0.5054 ppm	0.5183 ppm	0.5197 ppm	0.5072 ppm	0.5061 ppm	5.2083 ppm	0.4993 ppm
Concentration per Run 3	0.5051 ppm	0.5177 ppm	0.5217 ppm	0.5074 ppm	0.5111 ppm	5.2424 ppm	0.5046 ppm
Recovery Percentage 1	100.970 %	103.496 %	104.033 %	101.506 %	101.136 %	104.435 %	100.187 %
Concentration RSD	0.1 %	0.2 %	0.3 %	0.1 %	1.1 %	0.3 %	0.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5246 ppm	0.4954 ppm	0.5013 ppm	10.0004 ppm	0.5211 ppm	0.5212 ppm	0.5213 ppm
Concentration per Run 1	0.5247 ppm	0.4937 ppm	0.4958 ppm	9.9928 ppm	0.5206 ppm	0.5207 ppm	0.5184 ppm
Concentration per Run 2	0.5246 ppm	0.4926 ppm	0.5026 ppm	9.9499 ppm	0.5217 ppm	0.5204 ppm	0.5225 ppm
Concentration per Run 3	0.5245 ppm	0.4998 ppm	0.5054 ppm	10.0584 ppm	0.5212 ppm	0.5225 ppm	0.5231 ppm
Recovery Percentage 1	104.919 %	99.074 %	100.256 %	100.004 %	104.229 %	104.240 %	104.262 %
Concentration RSD	0.0 %	0.8 %	1.0 %	0.5 %	0.1 %	0.2 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5236 ppm	5.7108 ppm	0.4891 ppm	0.4696 ppm	0.5248 ppm	0.5133 ppm	0.5071 ppm
Concentration per Run 1	0.5245 ppm	5.7065 ppm	0.4890 ppm	0.4687 ppm	0.5247 ppm	0.5127 ppm	0.5076 ppm
Concentration per Run 2	0.5247 ppm	5.7141 ppm	0.4899 ppm	0.4673 ppm	0.5241 ppm	0.5145 ppm	0.5068 ppm
Concentration per Run 3	0.5218 ppm	5.7119 ppm	0.4884 ppm	0.4729 ppm	0.5254 ppm	0.5126 ppm	0.5069 ppm
Recovery Percentage 1	104.729 %	108.778 %	97.826 %	93.920 %	104.951 %	102.656 %	101.429 %
Concentration RSD	0.3 %	0.1 %	0.2 %	0.6 %	0.1 %	0.2 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5149 ppm	100.2696 %	99.0222 %	98.3385 %	108.3046 %	99.4292 %	101.5886 %
Concentration per Run 1	0.5143 ppm	100.1233 %	99.2490 %	98.5378 %	108.3871 %	99.6963 %	101.9495 %
Concentration per Run 2	0.5155 ppm	100.7317 %	98.8677 %	98.3190 %	108.0788 %	99.3887 %	101.4195 %
Concentration per Run 3	0.5150 ppm	99.9538 %	98.9501 %	98.1587 %	108.4480 %	99.2025 %	101.3967 %
Recovery Percentage 1	102.987 %						
Concentration RSD	0.1 %	0.4 %	0.2 %	0.2 %	0.2 %	0.3 %	0.3 %

LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/26/2024 5:10:39 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0031 ppm	0.0000 ppm	0.0011 ppm	0.0006 ppm	0.0006 ppm	0.0008 ppm
Concentration per Run 1	0.0006 ppm	-0.0012 ppm	-0.0007 ppm	0.0017 ppm	0.0011 ppm	0.0010 ppm	-0.0024 ppm
Concentration per Run 2	-0.0002 ppm	0.0071 ppm	0.0001 ppm	0.0009 ppm	0.0005 ppm	0.0005 ppm	0.0050 ppm
Concentration per Run 3	0.0005 ppm	0.0036 ppm	0.0005 ppm	0.0007 ppm	0.0003 ppm	0.0004 ppm	-0.0001 ppm
Recovery Percentage 1	4.081 %	3.149 %	-0.825 %	3.691 %	6.412 %	12.325 %	0.807 %
Concentration RSD	141.3 %	132.5 %	1,489.4 %	47.9 %	62.1 %	50.5 %	470.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0006 ppm	0.0016 ppm	-0.0846 ppm	-0.0020 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0009 ppm	0.0026 ppm	-0.0449 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0013 ppm	-0.0815 ppm	-0.0036 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0005 ppm	0.0007 ppm	-0.1274 ppm	-0.0018 ppm
Recovery Percentage 1	0.646 %	0.327 %	-0.848 %	5.793 %	3.117 %	-3.385 %	-19.878 %
Concentration RSD	99.2 %	132.8 %	552.7 %	49.0 %	61.9 %	48.8 %	75.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0003 ppm	0.0006 ppm	0.0022 ppm	-0.0028 ppm	0.0004 ppm	-0.0010 ppm	0.0022 ppm
Concentration per Run 1	-0.0003 ppm	0.0013 ppm	0.0022 ppm	-0.0056 ppm	0.0005 ppm	-0.0018 ppm	0.0028 ppm
Concentration per Run 2	0.0007 ppm	0.0002 ppm	0.0024 ppm	-0.0088 ppm	0.0002 ppm	-0.0006 ppm	0.0021 ppm
Concentration per Run 3	-0.0013 ppm	0.0002 ppm	0.0020 ppm	0.0061 ppm	0.0005 ppm	-0.0007 ppm	0.0019 ppm
Recovery Percentage 1	-0.292 %	5.591 %	4.438 %	-0.138 %	1.525 %	-10.409 %	4.490 %
Concentration RSD	344.6 %	114.4 %	8.9 %	282.8 %	43.8 %	65.9 %	19.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0019 ppm	0.0021 ppm	0.0005 ppm	0.0007 ppm	-0.0001 ppm	-0.0020 ppm	0.0003 ppm
Concentration per Run 1	-0.0058 ppm	0.0019 ppm	0.0006 ppm	0.0011 ppm	-0.0002 ppm	-0.0013 ppm	0.0006 ppm
Concentration per Run 2	0.0001 ppm	0.0025 ppm	0.0006 ppm	0.0004 ppm	-0.0001 ppm	-0.0031 ppm	0.0003 ppm
Concentration per Run 3	-0.0001 ppm	0.0018 ppm	0.0004 ppm	0.0006 ppm	0.0000 ppm	-0.0015 ppm	0.0001 ppm
Recovery Percentage 1	-19.281 %	0.413 %	1.072 %	6.621 %	-0.963 %	-9.936 %	3.084 %
Concentration RSD	173.9 %	17.4 %	19.1 %	52.8 %	75.8 %	50.7 %	89.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	96.1818 %	98.5502 %	98.0272 %	97.8537 %	98.1649 %	98.4574 %
Concentration per Run 1	0.0004 ppm	94.5072 %	98.3091 %	98.0865 %	94.6093 %	97.9567 %	97.8948 %
Concentration per Run 2	0.0004 ppm	96.5936 %	98.3576 %	98.0318 %	98.2377 %	98.1759 %	98.2969 %
Concentration per Run 3	0.0004 ppm	97.4446 %	98.9839 %	97.9635 %	100.7140 %	98.3622 %	99.1804 %
Recovery Percentage 1	7.323 %						
Concentration RSD	3.6 %	1.6 %	0.4 %	0.1 %	3.1 %	0.2 %	0.7 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1975352-1 WG1975352
Analysis started at: 9/26/2024 5:18:40 PM
Comments <Comment>
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0127 ppm	0.0002 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0095 ppm
Concentration per Run 1	0.0008 ppm	0.0060 ppm	0.0020 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0089 ppm
Concentration per Run 2	0.0006 ppm	0.0156 ppm	-0.0007 ppm	0.0008 ppm	0.0003 ppm	0.0000 ppm	0.0098 ppm
Concentration per Run 3	-0.0002 ppm	0.0166 ppm	-0.0007 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0098 ppm
Concentration RSD	123.9 %	46.2 %	785.8 %	30.6 %	216.8 %	684.3 %	5.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0289 ppm	-0.0643 ppm	-0.0026 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0299 ppm	-0.0811 ppm	-0.0017 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0273 ppm	-0.0760 ppm	-0.0037 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0296 ppm	-0.0358 ppm	-0.0025 ppm
Concentration RSD	354.0 %	158.3 %	65.8 %	1,246.2 %	4.9 %	38.6 %	38.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0031 ppm	0.0004 ppm	0.0008 ppm	0.0182 ppm	0.0004 ppm	-0.0009 ppm	0.0021 ppm
Concentration per Run 1	0.0022 ppm	0.0001 ppm	0.0008 ppm	0.0135 ppm	0.0007 ppm	-0.0013 ppm	0.0022 ppm
Concentration per Run 2	0.0024 ppm	0.0006 ppm	0.0008 ppm	0.0155 ppm	0.0002 ppm	-0.0010 ppm	0.0018 ppm
Concentration per Run 3	0.0047 ppm	0.0004 ppm	0.0007 ppm	0.0254 ppm	0.0003 ppm	-0.0006 ppm	0.0022 ppm
Concentration RSD	45.2 %	70.2 %	12.5 %	35.1 %	62.9 %	38.4 %	11.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	0.0080 ppm	0.0009 ppm	0.0000 ppm	0.0002 ppm	-0.0022 ppm	0.0001 ppm
Concentration per Run 1	-0.0030 ppm	0.0081 ppm	0.0005 ppm	0.0001 ppm	0.0004 ppm	-0.0023 ppm	0.0001 ppm
Concentration per Run 2	0.0009 ppm	0.0080 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0019 ppm	0.0000 ppm
Concentration per Run 3	0.0003 ppm	0.0080 ppm	0.0014 ppm	-0.0001 ppm	0.0000 ppm	-0.0025 ppm	0.0003 ppm
Concentration RSD	328.7 %	1.0 %	48.8 %	629.2 %	123.0 %	12.3 %	114.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0018 ppm	100.3727 %	100.7294 %	99.1471 %	107.9407 %	99.6330 %	103.3044 %
Concentration per Run 1	0.0018 ppm	100.6124 %	101.0429 %	99.0464 %	108.1930 %	99.4045 %	103.6491 %
Concentration per Run 2	0.0019 ppm	101.8047 %	100.7775 %	99.1154 %	108.9725 %	99.3404 %	103.2805 %
Concentration per Run 3	0.0018 ppm	98.7010 %	100.3678 %	99.2794 %	106.6565 %	100.1541 %	102.9837 %
Concentration RSD	3.3 %	1.6 %	0.3 %	0.1 %	1.1 %	0.5 %	0.3 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1975352-2d2 WG1975352
Analysis started at: 9/26/2024 5:24:59 PM
Comments <Comment>
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0565 ppm	2.2263 ppm	0.1270 ppm	1.0350 ppm	2.2088 ppm	0.0570 ppm	10.8310 ppm
Concentration per Run 1	0.0567 ppm	2.1714 ppm	0.1282 ppm	1.0474 ppm	2.1569 ppm	0.0557 ppm	10.5811 ppm
Concentration per Run 2	0.0566 ppm	2.2707 ppm	0.1282 ppm	1.0346 ppm	2.2439 ppm	0.0578 ppm	10.9932 ppm
Concentration per Run 3	0.0561 ppm	2.2368 ppm	0.1247 ppm	1.0231 ppm	2.2256 ppm	0.0576 ppm	10.9187 ppm
Concentration RSD	0.6 %	2.3 %	1.6 %	1.2 %	2.1 %	2.0 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0558 ppm	0.5350 ppm	0.2213 ppm	0.2797 ppm	1.1610 ppm	11.3395 ppm	-0.0015 ppm
Concentration per Run 1	0.0564 ppm	0.5420 ppm	0.2221 ppm	0.2797 ppm	1.1290 ppm	11.0689 ppm	-0.0008 ppm
Concentration per Run 2	0.0557 ppm	0.5341 ppm	0.2206 ppm	0.2798 ppm	1.1800 ppm	11.5333 ppm	-0.0017 ppm
Concentration per Run 3	0.0552 ppm	0.5288 ppm	0.2211 ppm	0.2795 ppm	1.1742 ppm	11.4163 ppm	-0.0020 ppm
Concentration RSD	1.1 %	1.2 %	0.3 %	0.1 %	2.4 %	2.1 %	41.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.5703 ppm	0.5677 ppm	1.0575 ppm	11.7738 ppm	0.5352 ppm	0.5592 ppm	0.5444 ppm
Concentration per Run 1	10.5866 ppm	0.5538 ppm	1.0586 ppm	11.7337 ppm	0.5420 ppm	0.5659 ppm	0.5483 ppm
Concentration per Run 2	10.5744 ppm	0.5775 ppm	1.0578 ppm	11.8765 ppm	0.5343 ppm	0.5587 ppm	0.5467 ppm
Concentration per Run 3	10.5500 ppm	0.5717 ppm	1.0561 ppm	11.7112 ppm	0.5292 ppm	0.5530 ppm	0.5381 ppm
Concentration RSD	0.2 %	2.2 %	0.1 %	0.8 %	1.2 %	1.2 %	1.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1245 ppm	0.8270 ppm	0.9896 ppm	1.0491 ppm	1.0825 ppm	0.1237 ppm	0.5422 ppm
Concentration per Run 1	0.1257 ppm	0.8365 ppm	1.0025 ppm	1.0251 ppm	1.0843 ppm	0.1238 ppm	0.5433 ppm
Concentration per Run 2	0.1269 ppm	0.8262 ppm	0.9885 ppm	1.0645 ppm	1.0824 ppm	0.1254 ppm	0.5420 ppm
Concentration per Run 3	0.1210 ppm	0.8183 ppm	0.9779 ppm	1.0576 ppm	1.0808 ppm	0.1219 ppm	0.5412 ppm
Concentration RSD	2.5 %	1.1 %	1.2 %	2.0 %	0.2 %	1.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5352 ppm	93.4834 %	95.6614 %	94.5764 %	101.2703 %	96.7583 %	99.9708 %
Concentration per Run 1	0.5425 ppm	95.1973 %	95.3695 %	94.7234 %	101.1015 %	96.5666 %	99.7314 %
Concentration per Run 2	0.5341 ppm	92.1915 %	95.5296 %	94.5070 %	100.6021 %	96.8443 %	99.6681 %
Concentration per Run 3	0.5291 ppm	93.0613 %	96.0851 %	94.4989 %	102.1073 %	96.8640 %	100.5129 %
Concentration RSD	1.3 %	1.7 %	0.4 %	0.1 %	0.8 %	0.2 %	0.5 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-01d2 WG1975352
Analysis started at: 9/26/2024 5:31:06 PM
Comments <Comment>
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0023 ppm	109.0124 ppm	0.3802 ppm	0.0060 ppm	0.1933 ppm	0.0045 ppm	4.9237 ppm
Concentration per Run 1	0.0024 ppm	108.6247 ppm	0.3784 ppm	0.0064 ppm	0.1928 ppm	0.0045 ppm	4.9017 ppm
Concentration per Run 2	0.0025 ppm	108.7456 ppm	0.3817 ppm	0.0061 ppm	0.1927 ppm	0.0044 ppm	4.9190 ppm
Concentration per Run 3	0.0020 ppm	109.6668 ppm	0.3806 ppm	0.0057 ppm	0.1944 ppm	0.0046 ppm	4.9503 ppm
Concentration RSD	12.9 %	0.5 %	0.4 %	5.4 %	0.5 %	1.3 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0018 ppm	0.0365 ppm	0.1516 ppm	0.0674 ppm	92.4243 ppm	5.4803 ppm	0.0857 ppm
Concentration per Run 1	0.0018 ppm	0.0364 ppm	0.1512 ppm	0.0672 ppm	91.9837 ppm	5.5007 ppm	0.0848 ppm
Concentration per Run 2	0.0018 ppm	0.0364 ppm	0.1517 ppm	0.0670 ppm	92.2353 ppm	5.4472 ppm	0.0867 ppm
Concentration per Run 3	0.0018 ppm	0.0366 ppm	0.1518 ppm	0.0679 ppm	93.0538 ppm	5.4929 ppm	0.0857 ppm
Concentration RSD	1.1 %	0.3 %	0.2 %	0.7 %	0.6 %	0.5 %	1.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.7653 ppm	1.6264 ppm	0.0064 ppm	0.3823 ppm	0.0804 ppm	1.2770 ppm	0.0096 ppm
Concentration per Run 1	13.7655 ppm	1.6213 ppm	0.0071 ppm	0.3777 ppm	0.0802 ppm	1.2731 ppm	0.0105 ppm
Concentration per Run 2	13.7507 ppm	1.6238 ppm	0.0062 ppm	0.3743 ppm	0.0807 ppm	1.2774 ppm	0.0106 ppm
Concentration per Run 3	13.7797 ppm	1.6342 ppm	0.0059 ppm	0.3949 ppm	0.0803 ppm	1.2805 ppm	0.0078 ppm
Concentration RSD	0.1 %	0.4 %	9.5 %	2.9 %	0.3 %	0.3 %	16.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0067 ppm	4.8964 ppm	0.0089 ppm	0.0225 ppm	2.7052 ppm	0.0020 ppm	0.1742 ppm
Concentration per Run 1	0.0054 ppm	4.8714 ppm	0.0085 ppm	0.0224 ppm	2.7045 ppm	0.0025 ppm	0.1743 ppm
Concentration per Run 2	0.0080 ppm	4.8971 ppm	0.0092 ppm	0.0225 ppm	2.7056 ppm	0.0016 ppm	0.1742 ppm
Concentration per Run 3	0.0067 ppm	4.9208 ppm	0.0089 ppm	0.0226 ppm	2.7055 ppm	0.0019 ppm	0.1743 ppm
Concentration RSD	18.9 %	0.5 %	3.8 %	0.5 %	0.0 %	23.1 %	0.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4076 ppm	109.4789 %	106.7355 %	105.3818 %	117.1871 %	100.0938 %	107.0320 %
Concentration per Run 1	0.4057 ppm	109.3260 %	106.6021 %	105.8330 %	117.3053 %	100.7550 %	106.8116 %
Concentration per Run 2	0.4086 ppm	109.9761 %	107.1427 %	105.2353 %	117.2947 %	99.9563 %	107.4505 %
Concentration per Run 3	0.4085 ppm	109.1345 %	106.4616 %	105.0771 %	116.9612 %	99.5701 %	106.8339 %
Concentration RSD	0.4 %	0.4 %	0.3 %	0.4 %	0.2 %	0.6 %	0.3 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1975352-3d2 WG1975352
Analysis started at: 9/26/2024 5:37:15 PM
Comments <Comment>
Rack: 1
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0474 ppm	101.8731 ppm	0.4581 ppm	0.7840 ppm	1.8086 ppm	0.0461 ppm	13.0905 ppm
Concentration per Run 1	0.0474 ppm	117.1326 ppm	0.4577 ppm	0.7857 ppm	2.0798 ppm	0.0528 ppm	15.0476 ppm
Concentration per Run 2	0.0475 ppm	94.5733 ppm	0.4586 ppm	0.7839 ppm	1.6799 ppm	0.0429 ppm	12.1599 ppm
Concentration per Run 3	0.0473 ppm	93.9134 ppm	0.4580 ppm	0.7824 ppm	1.6660 ppm	0.0426 ppm	12.0640 ppm
Concentration RSD	0.3 %	13.0 %	0.1 %	0.2 %	13.0 %	12.6 %	13.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0465 ppm	0.4535 ppm	0.3014 ppm	0.2844 ppm	89.9467 ppm	13.9714 ppm	0.0894 ppm
Concentration per Run 1	0.0465 ppm	0.4546 ppm	0.3006 ppm	0.2841 ppm	103.2025 ppm	16.0731 ppm	0.1022 ppm
Concentration per Run 2	0.0465 ppm	0.4538 ppm	0.3030 ppm	0.2842 ppm	83.6063 ppm	12.9912 ppm	0.0822 ppm
Concentration per Run 3	0.0463 ppm	0.4520 ppm	0.3006 ppm	0.2850 ppm	83.0313 ppm	12.8499 ppm	0.0837 ppm
Concentration RSD	0.2 %	0.3 %	0.5 %	0.2 %	12.8 %	13.0 %	12.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	23.0115 ppm	1.9130 ppm	0.8568 ppm	9.3119 ppm	0.4966 ppm	1.6025 ppm	0.4355 ppm
Concentration per Run 1	22.9883 ppm	2.1950 ppm	0.8544 ppm	10.6894 ppm	0.4980 ppm	1.6076 ppm	0.4394 ppm
Concentration per Run 2	23.0317 ppm	1.7792 ppm	0.8580 ppm	8.7879 ppm	0.4967 ppm	1.6038 ppm	0.4349 ppm
Concentration per Run 3	23.0145 ppm	1.7649 ppm	0.8581 ppm	8.4584 ppm	0.4950 ppm	1.5960 ppm	0.4322 ppm
Concentration RSD	0.1 %	12.8 %	0.2 %	12.9 %	0.3 %	0.4 %	0.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1053 ppm	7.4438 ppm	0.7912 ppm	0.7959 ppm	3.8966 ppm	0.1006 ppm	0.5830 ppm
Concentration per Run 1	0.1059 ppm	7.4291 ppm	0.7931 ppm	0.9137 ppm	3.8959 ppm	0.1002 ppm	0.5831 ppm
Concentration per Run 2	0.1068 ppm	7.4505 ppm	0.7910 ppm	0.7404 ppm	3.9017 ppm	0.0998 ppm	0.5833 ppm
Concentration per Run 3	0.1032 ppm	7.4517 ppm	0.7895 ppm	0.7335 ppm	3.8922 ppm	0.1017 ppm	0.5825 ppm
Concentration RSD	1.8 %	0.2 %	0.2 %	12.8 %	0.1 %	1.0 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.8277 ppm	105.6863 %	104.3779 %	103.0573 %	112.2779 %	98.6597 %	105.1811 %
Concentration per Run 1	0.8289 ppm	91.3163 %	104.0227 %	103.1033 %	96.8944 %	98.7700 %	104.8784 %
Concentration per Run 2	0.8285 ppm	112.4138 %	104.4358 %	102.8826 %	117.8381 %	98.6012 %	105.1165 %
Concentration per Run 3	0.8257 ppm	113.3287 %	104.6753 %	103.1860 %	122.1010 %	98.6079 %	105.5486 %
Concentration RSD	0.2 %	11.8 %	0.3 %	0.2 %	12.0 %	0.1 %	0.3 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1975352-4d2 WG1975352
Analysis started at: 9/26/2024 5:43:45 PM
Comments <Comment>
Rack: 1
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0019 ppm	106.4626 ppm	0.3715 ppm	0.0057 ppm	0.2006 ppm	0.0044 ppm	5.3973 ppm
Concentration per Run 1	0.0019 ppm	106.4341 ppm	0.3745 ppm	0.0060 ppm	0.2006 ppm	0.0043 ppm	5.3979 ppm
Concentration per Run 2	0.0019 ppm	106.4111 ppm	0.3707 ppm	0.0059 ppm	0.2005 ppm	0.0044 ppm	5.4072 ppm
Concentration per Run 3	0.0020 ppm	106.5427 ppm	0.3692 ppm	0.0053 ppm	0.2007 ppm	0.0044 ppm	5.3867 ppm
Concentration RSD	2.4 %	0.1 %	0.7 %	6.3 %	0.1 %	0.7 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0018 ppm	0.0311 ppm	0.1569 ppm	0.0684 ppm	92.3984 ppm	6.2371 ppm	0.0870 ppm
Concentration per Run 1	0.0018 ppm	0.0313 ppm	0.1569 ppm	0.0682 ppm	92.3325 ppm	6.2316 ppm	0.0869 ppm
Concentration per Run 2	0.0018 ppm	0.0312 ppm	0.1568 ppm	0.0685 ppm	92.2933 ppm	6.2278 ppm	0.0854 ppm
Concentration per Run 3	0.0017 ppm	0.0309 ppm	0.1570 ppm	0.0684 ppm	92.5695 ppm	6.2517 ppm	0.0886 ppm
Concentration RSD	2.8 %	0.7 %	0.1 %	0.2 %	0.2 %	0.2 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	14.7251 ppm	1.7054 ppm	0.0055 ppm	0.3623 ppm	0.0779 ppm	1.2597 ppm	0.0100 ppm
Concentration per Run 1	14.7254 ppm	1.7073 ppm	0.0057 ppm	0.3557 ppm	0.0786 ppm	1.2698 ppm	0.0092 ppm
Concentration per Run 2	14.7509 ppm	1.7035 ppm	0.0054 ppm	0.3752 ppm	0.0780 ppm	1.2598 ppm	0.0111 ppm
Concentration per Run 3	14.6989 ppm	1.7053 ppm	0.0053 ppm	0.3559 ppm	0.0772 ppm	1.2496 ppm	0.0097 ppm
Concentration RSD	0.2 %	0.1 %	4.1 %	3.1 %	0.9 %	0.8 %	9.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0058 ppm	5.2380 ppm	0.0089 ppm	0.0226 ppm	2.7414 ppm	0.0015 ppm	0.1757 ppm
Concentration per Run 1	0.0059 ppm	5.2631 ppm	0.0090 ppm	0.0228 ppm	2.7401 ppm	0.0024 ppm	0.1757 ppm
Concentration per Run 2	0.0071 ppm	5.2556 ppm	0.0086 ppm	0.0228 ppm	2.7442 ppm	0.0015 ppm	0.1763 ppm
Concentration per Run 3	0.0045 ppm	5.1953 ppm	0.0090 ppm	0.0223 ppm	2.7398 ppm	0.0006 ppm	0.1749 ppm
Concentration RSD	22.2 %	0.7 %	2.6 %	1.1 %	0.1 %	61.1 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4167 ppm	107.8441 %	105.2622 %	104.4188 %	114.3384 %	99.0259 %	105.1160 %
Concentration per Run 1	0.4196 ppm	107.2031 %	105.0399 %	104.4910 %	113.4008 %	98.9560 %	104.9290 %
Concentration per Run 2	0.4170 ppm	108.2396 %	105.3186 %	104.4423 %	114.8639 %	99.0159 %	105.0771 %
Concentration per Run 3	0.4134 ppm	108.0897 %	105.4281 %	104.3232 %	114.7506 %	99.1056 %	105.3418 %
Concentration RSD	0.8 %	0.5 %	0.2 %	0.1 %	0.7 %	0.1 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1975352-5d2 WG1975352
Analysis started at: 9/26/2024 5:49:50 PM
Comments <Comment>
Rack: 1
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0545 ppm	119.3341 ppm	0.5053 ppm	1.0057 ppm	2.2136 ppm	0.0561 ppm	15.1562 ppm
Concentration per Run 1	0.0545 ppm	120.0520 ppm	0.5067 ppm	1.0066 ppm	2.2260 ppm	0.0561 ppm	15.2535 ppm
Concentration per Run 2	0.0552 ppm	120.4754 ppm	0.5054 ppm	1.0066 ppm	2.2348 ppm	0.0567 ppm	15.3070 ppm
Concentration per Run 3	0.0539 ppm	117.4749 ppm	0.5040 ppm	1.0039 ppm	2.1799 ppm	0.0554 ppm	14.9081 ppm
Concentration RSD	1.2 %	1.4 %	0.3 %	0.2 %	1.3 %	1.2 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0546 ppm	0.5384 ppm	0.3541 ppm	0.3333 ppm	100.4270 ppm	16.3693 ppm	0.0913 ppm
Concentration per Run 1	0.0546 ppm	0.5392 ppm	0.3545 ppm	0.3337 ppm	100.8227 ppm	16.4554 ppm	0.0931 ppm
Concentration per Run 2	0.0546 ppm	0.5386 ppm	0.3532 ppm	0.3341 ppm	101.4522 ppm	16.4955 ppm	0.0922 ppm
Concentration per Run 3	0.0545 ppm	0.5375 ppm	0.3546 ppm	0.3320 ppm	99.0062 ppm	16.1571 ppm	0.0885 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	0.3 %	1.3 %	1.1 %	2.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	23.7187 ppm	2.2399 ppm	1.0343 ppm	11.7151 ppm	0.5782 ppm	1.7963 ppm	0.5255 ppm
Concentration per Run 1	23.7248 ppm	2.2485 ppm	1.0275 ppm	11.8244 ppm	0.5792 ppm	1.7994 ppm	0.5262 ppm
Concentration per Run 2	23.7074 ppm	2.2649 ppm	1.0365 ppm	11.8446 ppm	0.5786 ppm	1.7981 ppm	0.5265 ppm
Concentration per Run 3	23.7238 ppm	2.2065 ppm	1.0390 ppm	11.4764 ppm	0.5768 ppm	1.7913 ppm	0.5239 ppm
Concentration RSD	0.0 %	1.3 %	0.6 %	1.8 %	0.2 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1276 ppm	5.7933 ppm	0.9666 ppm	0.9994 ppm	3.7733 ppm	0.1194 ppm	0.6692 ppm
Concentration per Run 1	0.1306 ppm	5.7925 ppm	0.9690 ppm	1.0032 ppm	3.7755 ppm	0.1195 ppm	0.6693 ppm
Concentration per Run 2	0.1277 ppm	5.7999 ppm	0.9675 ppm	1.0104 ppm	3.7725 ppm	0.1199 ppm	0.6694 ppm
Concentration per Run 3	0.1245 ppm	5.7876 ppm	0.9632 ppm	0.9846 ppm	3.7719 ppm	0.1190 ppm	0.6689 ppm
Concentration RSD	2.4 %	0.1 %	0.3 %	1.3 %	0.1 %	0.4 %	0.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.9040 ppm	98.7202 %	102.3625 %	101.5039 %	102.5088 %	96.4726 %	101.6869 %
Concentration per Run 1	0.9052 ppm	97.9694 %	102.6814 %	101.5355 %	101.1949 %	96.5580 %	101.8600 %
Concentration per Run 2	0.9058 ppm	98.1006 %	102.0367 %	101.3683 %	101.9267 %	96.1983 %	101.4554 %
Concentration per Run 3	0.9008 ppm	100.0907 %	102.3694 %	101.6078 %	104.4048 %	96.6617 %	101.7453 %
Concentration RSD	0.3 %	1.2 %	0.3 %	0.1 %	1.6 %	0.3 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1975352-6d10 WG1975352
Analysis started at: 9/26/2024 5:55:52 PM
Comments <Comment>
Rack: 1
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	24.0126 ppm	0.0776 ppm	0.0030 ppm	0.0438 ppm	0.0010 ppm	1.1065 ppm
Concentration per Run 1	0.0009 ppm	24.8868 ppm	0.0791 ppm	0.0028 ppm	0.0456 ppm	0.0011 ppm	1.1491 ppm
Concentration per Run 2	-0.0001 ppm	23.6425 ppm	0.0767 ppm	0.0032 ppm	0.0432 ppm	0.0010 ppm	1.0859 ppm
Concentration per Run 3	0.0011 ppm	23.5085 ppm	0.0770 ppm	0.0029 ppm	0.0425 ppm	0.0009 ppm	1.0844 ppm
Concentration RSD	94.8 %	3.2 %	1.7 %	7.0 %	3.8 %	8.4 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0004 ppm	0.0076 ppm	0.0327 ppm	0.0140 ppm	20.5838 ppm	1.1984 ppm	0.0180 ppm
Concentration per Run 1	0.0004 ppm	0.0078 ppm	0.0325 ppm	0.0138 ppm	21.2719 ppm	1.2308 ppm	0.0177 ppm
Concentration per Run 2	0.0004 ppm	0.0077 ppm	0.0329 ppm	0.0140 ppm	20.2839 ppm	1.1452 ppm	0.0197 ppm
Concentration per Run 3	0.0003 ppm	0.0074 ppm	0.0328 ppm	0.0143 ppm	20.1956 ppm	1.2191 ppm	0.0166 ppm
Concentration RSD	11.8 %	2.7 %	0.7 %	1.8 %	2.9 %	3.9 %	8.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.9682 ppm	0.3653 ppm	0.0040 ppm	0.0924 ppm	0.0167 ppm	0.2665 ppm	0.0033 ppm
Concentration per Run 1	2.9542 ppm	0.3782 ppm	0.0045 ppm	0.0947 ppm	0.0165 ppm	0.2666 ppm	0.0037 ppm
Concentration per Run 2	2.9821 ppm	0.3596 ppm	0.0038 ppm	0.0890 ppm	0.0169 ppm	0.2665 ppm	0.0034 ppm
Concentration per Run 3	2.9682 ppm	0.3581 ppm	0.0037 ppm	0.0935 ppm	0.0166 ppm	0.2662 ppm	0.0029 ppm
Concentration RSD	0.5 %	3.1 %	11.2 %	3.3 %	1.2 %	0.1 %	13.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0014 ppm	1.0489 ppm	0.0025 ppm	0.0053 ppm	0.5669 ppm	0.0000 ppm	0.0365 ppm
Concentration per Run 1	0.0025 ppm	1.0527 ppm	0.0023 ppm	0.0056 ppm	0.5666 ppm	0.0002 ppm	0.0362 ppm
Concentration per Run 2	-0.0039 ppm	1.0463 ppm	0.0026 ppm	0.0052 ppm	0.5678 ppm	0.0010 ppm	0.0363 ppm
Concentration per Run 3	-0.0028 ppm	1.0476 ppm	0.0027 ppm	0.0051 ppm	0.5663 ppm	-0.0012 ppm	0.0370 ppm
Concentration RSD	248.7 %	0.3 %	9.9 %	4.1 %	0.1 %	3,979.5 %	1.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0852 ppm	99.4380 %	100.3806 %	99.2106 %	106.4310 %	100.1004 %	102.9523 %
Concentration per Run 1	0.0853 ppm	96.1741 %	100.6843 %	99.6145 %	103.1117 %	100.3668 %	103.2010 %
Concentration per Run 2	0.0853 ppm	101.0593 %	100.0759 %	99.0043 %	107.8058 %	99.7725 %	102.4508 %
Concentration per Run 3	0.0852 ppm	101.0806 %	100.3815 %	99.0132 %	108.3755 %	100.1617 %	103.2049 %
Concentration RSD	0.0 %	2.8 %	0.3 %	0.4 %	2.7 %	0.3 %	0.4 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-02d2 WG1975352
Analysis started at: 9/26/2024 6:02:03 PM
Comments <Comment>
Rack: 1
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0023 ppm	100.2618 ppm	0.1204 ppm	0.0043 ppm	0.1860 ppm	0.0047 ppm	3.6232 ppm
Concentration per Run 1	0.0024 ppm	97.0505 ppm	0.1203 ppm	0.0046 ppm	0.1804 ppm	0.0045 ppm	3.5170 ppm
Concentration per Run 2	0.0024 ppm	101.5255 ppm	0.1196 ppm	0.0046 ppm	0.1883 ppm	0.0047 ppm	3.6625 ppm
Concentration per Run 3	0.0021 ppm	102.2093 ppm	0.1212 ppm	0.0036 ppm	0.1895 ppm	0.0048 ppm	3.6902 ppm
Concentration RSD	6.9 %	2.8 %	0.7 %	13.0 %	2.7 %	3.1 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0010 ppm	0.0336 ppm	0.1417 ppm	0.0488 ppm	84.2570 ppm	4.9726 ppm	0.0812 ppm
Concentration per Run 1	0.0010 ppm	0.0338 ppm	0.1413 ppm	0.0487 ppm	81.5208 ppm	4.7901 ppm	0.0793 ppm
Concentration per Run 2	0.0010 ppm	0.0336 ppm	0.1413 ppm	0.0484 ppm	85.2912 ppm	5.0610 ppm	0.0849 ppm
Concentration per Run 3	0.0009 ppm	0.0335 ppm	0.1425 ppm	0.0492 ppm	85.9591 ppm	5.0666 ppm	0.0795 ppm
Concentration RSD	3.2 %	0.5 %	0.5 %	0.8 %	2.8 %	3.2 %	3.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	14.1661 ppm	1.2947 ppm	0.0028 ppm	0.3017 ppm	0.0855 ppm	0.2902 ppm	0.0075 ppm
Concentration per Run 1	14.1603 ppm	1.2551 ppm	0.0027 ppm	0.3077 ppm	0.0860 ppm	0.2899 ppm	0.0075 ppm
Concentration per Run 2	14.1538 ppm	1.3089 ppm	0.0028 ppm	0.2997 ppm	0.0854 ppm	0.2903 ppm	0.0073 ppm
Concentration per Run 3	14.1842 ppm	1.3202 ppm	0.0028 ppm	0.2977 ppm	0.0853 ppm	0.2904 ppm	0.0075 ppm
Concentration RSD	0.1 %	2.7 %	2.0 %	1.7 %	0.4 %	0.1 %	1.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0059 ppm	6.6515 ppm	0.0059 ppm	0.0210 ppm	3.6420 ppm	0.0025 ppm	0.1522 ppm
Concentration per Run 1	0.0069 ppm	6.6388 ppm	0.0059 ppm	0.0204 ppm	3.6422 ppm	0.0025 ppm	0.1524 ppm
Concentration per Run 2	0.0053 ppm	6.6430 ppm	0.0059 ppm	0.0212 ppm	3.6378 ppm	0.0039 ppm	0.1518 ppm
Concentration per Run 3	0.0055 ppm	6.6725 ppm	0.0058 ppm	0.0214 ppm	3.6461 ppm	0.0012 ppm	0.1524 ppm
Concentration RSD	14.3 %	0.3 %	1.0 %	2.5 %	0.1 %	53.1 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2741 ppm	110.9121 %	105.9155 %	105.3112 %	118.5499 %	100.9599 %	106.4869 %
Concentration per Run 1	0.2745 ppm	113.8935 %	105.8029 %	105.6242 %	121.2560 %	101.0022 %	106.4115 %
Concentration per Run 2	0.2739 ppm	110.0673 %	106.3957 %	105.1182 %	117.9350 %	100.9867 %	106.8593 %
Concentration per Run 3	0.2740 ppm	108.7755 %	105.5478 %	105.1912 %	116.4585 %	100.8907 %	106.1898 %
Concentration RSD	0.1 %	2.4 %	0.4 %	0.3 %	2.1 %	0.1 %	0.3 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-03d2 WG1975352
Analysis started at: 9/26/2024 6:08:09 PM
Comments <Comment>
Rack: 1
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0022 ppm	98.5779 ppm	0.5259 ppm	0.0048 ppm	0.2009 ppm	0.0043 ppm	6.2840 ppm
Concentration per Run 1	0.0023 ppm	97.4801 ppm	0.5251 ppm	0.0048 ppm	0.1986 ppm	0.0042 ppm	6.2181 ppm
Concentration per Run 2	0.0023 ppm	98.5315 ppm	0.5285 ppm	0.0047 ppm	0.2009 ppm	0.0043 ppm	6.2885 ppm
Concentration per Run 3	0.0019 ppm	99.7220 ppm	0.5242 ppm	0.0048 ppm	0.2033 ppm	0.0044 ppm	6.3456 ppm
Concentration RSD	10.2 %	1.1 %	0.4 %	1.3 %	1.2 %	2.3 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0012 ppm	0.0310 ppm	0.1280 ppm	0.0498 ppm	81.7125 ppm	5.2215 ppm	0.0914 ppm
Concentration per Run 1	0.0012 ppm	0.0309 ppm	0.1280 ppm	0.0499 ppm	80.6389 ppm	5.1387 ppm	0.0914 ppm
Concentration per Run 2	0.0012 ppm	0.0310 ppm	0.1275 ppm	0.0500 ppm	81.7502 ppm	5.2196 ppm	0.0930 ppm
Concentration per Run 3	0.0012 ppm	0.0311 ppm	0.1285 ppm	0.0496 ppm	82.7484 ppm	5.3062 ppm	0.0897 ppm
Concentration RSD	1.1 %	0.3 %	0.4 %	0.4 %	1.3 %	1.6 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	15.8276 ppm	1.2658 ppm	0.0024 ppm	0.3734 ppm	0.0794 ppm	1.4014 ppm	0.0101 ppm
Concentration per Run 1	15.8308 ppm	1.2518 ppm	0.0026 ppm	0.3723 ppm	0.0792 ppm	1.3983 ppm	0.0113 ppm
Concentration per Run 2	15.8128 ppm	1.2660 ppm	0.0026 ppm	0.3633 ppm	0.0794 ppm	1.4024 ppm	0.0106 ppm
Concentration per Run 3	15.8393 ppm	1.2797 ppm	0.0021 ppm	0.3845 ppm	0.0796 ppm	1.4034 ppm	0.0086 ppm
Concentration RSD	0.1 %	1.1 %	10.6 %	2.9 %	0.2 %	0.2 %	14.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0043 ppm	8.0192 ppm	0.0067 ppm	0.0356 ppm	3.0989 ppm	0.0025 ppm	0.1598 ppm
Concentration per Run 1	0.0047 ppm	7.9746 ppm	0.0061 ppm	0.0352 ppm	3.1011 ppm	0.0037 ppm	0.1595 ppm
Concentration per Run 2	0.0001 ppm	8.0296 ppm	0.0077 ppm	0.0355 ppm	3.0956 ppm	0.0044 ppm	0.1601 ppm
Concentration per Run 3	0.0081 ppm	8.0534 ppm	0.0065 ppm	0.0361 ppm	3.1002 ppm	-0.0005 ppm	0.1598 ppm
Concentration RSD	92.7 %	0.5 %	11.9 %	1.3 %	0.1 %	104.6 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2595 ppm	108.3095 %	104.4969 %	103.7161 %	115.1239 %	99.2761 %	105.0064 %
Concentration per Run 1	0.2594 ppm	109.2176 %	104.4317 %	103.7866 %	116.1137 %	99.5466 %	104.7111 %
Concentration per Run 2	0.2596 ppm	108.6225 %	104.3910 %	103.7592 %	114.8922 %	99.3307 %	105.0935 %
Concentration per Run 3	0.2594 ppm	107.0885 %	104.6679 %	103.6026 %	114.3659 %	98.9509 %	105.2147 %
Concentration RSD	0.0 %	1.0 %	0.1 %	0.1 %	0.8 %	0.3 %	0.3 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-04d2 WG1975352
Analysis started at: 9/26/2024 6:14:16 PM
Comments <Comment>
Rack: 1
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0023 ppm	108.5726 ppm	0.3981 ppm	0.0050 ppm	0.2508 ppm	0.0043 ppm	15.5803 ppm
Concentration per Run 1	0.0024 ppm	106.4850 ppm	0.3962 ppm	0.0047 ppm	0.2463 ppm	0.0042 ppm	15.2762 ppm
Concentration per Run 2	0.0026 ppm	109.2723 ppm	0.3997 ppm	0.0058 ppm	0.2521 ppm	0.0044 ppm	15.6927 ppm
Concentration per Run 3	0.0019 ppm	109.9604 ppm	0.3986 ppm	0.0046 ppm	0.2541 ppm	0.0043 ppm	15.7720 ppm
Concentration RSD	13.8 %	1.7 %	0.4 %	12.7 %	1.6 %	2.6 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0014 ppm	0.0257 ppm	0.1644 ppm	0.0717 ppm	88.0661 ppm	5.2945 ppm	0.0741 ppm
Concentration per Run 1	0.0015 ppm	0.0258 ppm	0.1646 ppm	0.0712 ppm	86.2560 ppm	5.1923 ppm	0.0740 ppm
Concentration per Run 2	0.0013 ppm	0.0257 ppm	0.1642 ppm	0.0718 ppm	88.6536 ppm	5.3414 ppm	0.0750 ppm
Concentration per Run 3	0.0014 ppm	0.0257 ppm	0.1646 ppm	0.0720 ppm	89.2888 ppm	5.3499 ppm	0.0732 ppm
Concentration RSD	5.1 %	0.2 %	0.2 %	0.6 %	1.8 %	1.7 %	1.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	15.7325 ppm	1.7998 ppm	0.0045 ppm	0.3747 ppm	0.0705 ppm	0.7923 ppm	0.0076 ppm
Concentration per Run 1	15.6979 ppm	1.7653 ppm	0.0041 ppm	0.3657 ppm	0.0702 ppm	0.7933 ppm	0.0071 ppm
Concentration per Run 2	15.7742 ppm	1.8098 ppm	0.0048 ppm	0.3850 ppm	0.0707 ppm	0.7914 ppm	0.0070 ppm
Concentration per Run 3	15.7254 ppm	1.8243 ppm	0.0046 ppm	0.3735 ppm	0.0706 ppm	0.7923 ppm	0.0087 ppm
Concentration RSD	0.2 %	1.7 %	8.4 %	2.6 %	0.4 %	0.1 %	12.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0068 ppm	10.0375 ppm	0.0074 ppm	0.0283 ppm	2.3322 ppm	-0.0003 ppm	0.1598 ppm
Concentration per Run 1	0.0050 ppm	10.0192 ppm	0.0077 ppm	0.0279 ppm	2.3305 ppm	-0.0012 ppm	0.1593 ppm
Concentration per Run 2	0.0076 ppm	10.0247 ppm	0.0074 ppm	0.0283 ppm	2.3328 ppm	0.0004 ppm	0.1601 ppm
Concentration per Run 3	0.0079 ppm	10.0687 ppm	0.0072 ppm	0.0287 ppm	2.3333 ppm	0.0001 ppm	0.1600 ppm
Concentration RSD	23.4 %	0.3 %	3.4 %	1.4 %	0.1 %	347.0 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4738 ppm	108.2179 %	103.6037 %	102.8816 %	115.1105 %	97.1377 %	103.3008 %
Concentration per Run 1	0.4744 ppm	109.8733 %	103.7994 %	103.0207 %	116.9660 %	97.1146 %	103.5894 %
Concentration per Run 2	0.4736 ppm	107.7533 %	103.3781 %	102.7355 %	114.6521 %	97.1012 %	102.9819 %
Concentration per Run 3	0.4734 ppm	107.0271 %	103.6335 %	102.8887 %	113.7134 %	97.1973 %	103.3312 %
Concentration RSD	0.1 %	1.4 %	0.2 %	0.1 %	1.5 %	0.1 %	0.3 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/26/2024 6:20:22 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5204 ppm	0.5220 ppm	0.4968 ppm	0.5042 ppm	0.4975 ppm	0.4958 ppm	0.4957 ppm
Concentration per Run 1	0.5199 ppm	0.5194 ppm	0.4996 ppm	0.5040 ppm	0.4918 ppm	0.4904 ppm	0.4929 ppm
Concentration per Run 2	0.5203 ppm	0.5178 ppm	0.4955 ppm	0.5043 ppm	0.5013 ppm	0.4994 ppm	0.4981 ppm
Concentration per Run 3	0.5211 ppm	0.5288 ppm	0.4951 ppm	0.5042 ppm	0.4995 ppm	0.4977 ppm	0.4960 ppm
Recovery Percentage 1	104.087 %	104.400 %	99.351 %	100.830 %	99.505 %	99.169 %	99.134 %
Concentration RSD	0.1 %	1.1 %	0.5 %	0.0 %	1.0 %	1.0 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5014 ppm	0.5140 ppm	0.5085 ppm	0.5018 ppm	0.5489 ppm	5.1985 ppm	0.4974 ppm
Concentration per Run 1	0.5012 ppm	0.5143 ppm	0.5080 ppm	0.5011 ppm	0.5403 ppm	5.1249 ppm	0.4934 ppm
Concentration per Run 2	0.5014 ppm	0.5141 ppm	0.5085 ppm	0.5013 ppm	0.5546 ppm	5.2784 ppm	0.4991 ppm
Concentration per Run 3	0.5016 ppm	0.5137 ppm	0.5091 ppm	0.5031 ppm	0.5516 ppm	5.1920 ppm	0.4997 ppm
Recovery Percentage 1	100.277 %	102.809 %	101.708 %	100.362 %	109.771 %	103.969 %	99.484 %
Concentration RSD	0.0 %	0.1 %	0.1 %	0.2 %	1.4 %	1.5 %	0.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5010 ppm	0.4961 ppm	0.5029 ppm	10.3876 ppm	0.5073 ppm	0.5058 ppm	0.5117 ppm
Concentration per Run 1	0.5016 ppm	0.4908 ppm	0.4986 ppm	10.2495 ppm	0.5067 ppm	0.5057 ppm	0.5102 ppm
Concentration per Run 2	0.5020 ppm	0.4989 ppm	0.5034 ppm	10.4405 ppm	0.5073 ppm	0.5053 ppm	0.5118 ppm
Concentration per Run 3	0.4994 ppm	0.4988 ppm	0.5066 ppm	10.4728 ppm	0.5079 ppm	0.5064 ppm	0.5129 ppm
Recovery Percentage 1	100.198 %	99.230 %	100.580 %	103.876 %	101.455 %	101.158 %	102.333 %
Concentration RSD	0.3 %	0.9 %	0.8 %	1.2 %	0.1 %	0.1 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5039 ppm	5.6020 ppm	0.4685 ppm	0.4744 ppm	0.5089 ppm	0.5110 ppm	0.4958 ppm
Concentration per Run 1	0.5049 ppm	5.6038 ppm	0.4679 ppm	0.4690 ppm	0.5074 ppm	0.5121 ppm	0.4959 ppm
Concentration per Run 2	0.5030 ppm	5.6020 ppm	0.4689 ppm	0.4774 ppm	0.5100 ppm	0.5116 ppm	0.4960 ppm
Concentration per Run 3	0.5039 ppm	5.6001 ppm	0.4687 ppm	0.4768 ppm	0.5093 ppm	0.5093 ppm	0.4955 ppm
Recovery Percentage 1	100.789 %	106.705 %	93.698 %	94.878 %	101.780 %	102.198 %	99.155 %
Concentration RSD	0.2 %	0.0 %	0.1 %	1.0 %	0.3 %	0.3 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5058 ppm	100.0607 %	99.3384 %	98.0118 %	111.8636 %	100.9378 %	104.2050 %
Concentration per Run 1	0.5053 ppm	100.8585 %	99.4474 %	98.0455 %	112.9037 %	101.0869 %	104.2660 %
Concentration per Run 2	0.5056 ppm	99.3214 %	99.3041 %	97.8500 %	111.1860 %	100.8799 %	104.1904 %
Concentration per Run 3	0.5065 ppm	100.0022 %	99.2638 %	98.1400 %	111.5011 %	100.8466 %	104.1586 %
Recovery Percentage 1	101.162 %						
Concentration RSD	0.1 %	0.8 %	0.1 %	0.2 %	0.8 %	0.1 %	0.1 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/26/2024 6:26:24 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0069 ppm	0.0008 ppm	0.0016 ppm	0.0003 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0044 ppm	0.0021 ppm	0.0017 ppm	0.0002 ppm	0.0004 ppm	0.0035 ppm
Concentration per Run 2	0.0006 ppm	0.0110 ppm	0.0002 ppm	0.0016 ppm	0.0003 ppm	0.0005 ppm	-0.0027 ppm
Concentration per Run 3	0.0001 ppm	0.0052 ppm	0.0001 ppm	0.0015 ppm	0.0004 ppm	0.0004 ppm	-0.0006 ppm
Recovery Percentage 1	3.077 %	6.885 %	16.114 %	5.400 %	3.148 %	8.689 %	0.058 %
Concentration RSD	155.4 %	52.3 %	141.0 %	7.1 %	41.4 %	10.7 %	5,445.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0001 ppm	0.0070 ppm	-0.1004 ppm	-0.0043 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm	0.0069 ppm	-0.1230 ppm	-0.0036 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0006 ppm	0.0000 ppm	0.0074 ppm	-0.1047 ppm	-0.0056 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0067 ppm	-0.0734 ppm	-0.0037 ppm
Recovery Percentage 1	0.679 %	0.920 %	2.921 %	-0.707 %	13.998 %	-4.015 %	-42.858 %
Concentration RSD	150.4 %	46.8 %	155.5 %	185.4 %	4.8 %	25.0 %	25.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0001 ppm	0.0005 ppm	0.0019 ppm	0.0200 ppm	0.0003 ppm	-0.0006 ppm	0.0020 ppm
Concentration per Run 1	0.0007 ppm	0.0007 ppm	0.0024 ppm	0.0145 ppm	0.0003 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 2	0.0004 ppm	0.0006 ppm	0.0019 ppm	0.0466 ppm	0.0002 ppm	-0.0017 ppm	0.0026 ppm
Concentration per Run 3	-0.0007 ppm	0.0001 ppm	0.0016 ppm	-0.0010 ppm	0.0004 ppm	-0.0003 ppm	0.0012 ppm
Recovery Percentage 1	0.136 %	4.531 %	3.899 %	1.001 %	1.284 %	-6.387 %	3.970 %
Concentration RSD	537.8 %	70.7 %	22.0 %	121.3 %	32.9 %	139.0 %	37.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	0.0093 ppm	0.0004 ppm	0.0004 ppm	0.0008 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	-0.0032 ppm	0.0102 ppm	0.0008 ppm	0.0004 ppm	0.0007 ppm	-0.0001 ppm	0.0006 ppm
Concentration per Run 2	0.0015 ppm	0.0088 ppm	0.0003 ppm	0.0004 ppm	0.0012 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0088 ppm	0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0010 ppm	0.0001 ppm
Recovery Percentage 1	-5.896 %	1.856 %	0.835 %	3.774 %	7.991 %	0.430 %	2.155 %
Concentration RSD	409.4 %	8.9 %	94.1 %	20.5 %	41.0 %	930.9 %	170.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	98.0639 %	99.4986 %	98.2636 %	104.2252 %	100.0923 %	101.4970 %
Concentration per Run 1	0.0004 ppm	97.7349 %	99.5782 %	98.1991 %	102.5538 %	99.9327 %	101.6009 %
Concentration per Run 2	0.0003 ppm	98.2737 %	99.4144 %	98.5674 %	104.5955 %	100.4439 %	101.3364 %
Concentration per Run 3	0.0003 ppm	98.1832 %	99.5031 %	98.0244 %	105.5261 %	99.9002 %	101.5538 %
Recovery Percentage 1	6.810 %						
Concentration RSD	14.0 %	0.3 %	0.1 %	0.3 %	1.5 %	0.3 %	0.1 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1976217-2d2 WG1976217
Analysis started at: 9/26/2024 6:37:40 PM
Comments <Comment>
Rack: 1
Vial: 47

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0275 ppm	1.0457 ppm	0.0624 ppm	0.5042 ppm	1.0276 ppm	0.0260 ppm	5.1457 ppm
Concentration per Run 1	0.0281 ppm	1.0320 ppm	0.0629 ppm	0.5060 ppm	1.0249 ppm	0.0260 ppm	5.1359 ppm
Concentration per Run 2	0.0266 ppm	1.0580 ppm	0.0620 ppm	0.5026 ppm	1.0322 ppm	0.0261 ppm	5.1660 ppm
Concentration per Run 3	0.0279 ppm	1.0470 ppm	0.0622 ppm	0.5040 ppm	1.0259 ppm	0.0260 ppm	5.1350 ppm
Concentration RSD	3.0 %	1.2 %	0.8 %	0.3 %	0.4 %	0.2 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0276 ppm	0.2597 ppm	0.1052 ppm	0.1327 ppm	0.5274 ppm	5.3446 ppm	-0.0045 ppm
Concentration per Run 1	0.0278 ppm	0.2610 ppm	0.1050 ppm	0.1323 ppm	0.5216 ppm	5.3515 ppm	-0.0051 ppm
Concentration per Run 2	0.0275 ppm	0.2587 ppm	0.1047 ppm	0.1328 ppm	0.5311 ppm	5.3294 ppm	-0.0047 ppm
Concentration per Run 3	0.0277 ppm	0.2593 ppm	0.1058 ppm	0.1331 ppm	0.5294 ppm	5.3530 ppm	-0.0037 ppm
Concentration RSD	0.6 %	0.5 %	0.5 %	0.3 %	1.0 %	0.2 %	15.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.1811 ppm	0.2635 ppm	0.5007 ppm	5.7095 ppm	0.2607 ppm	0.2770 ppm	0.2566 ppm
Concentration per Run 1	5.1806 ppm	0.2623 ppm	0.4963 ppm	5.7686 ppm	0.2619 ppm	0.2778 ppm	0.2556 ppm
Concentration per Run 2	5.1715 ppm	0.2646 ppm	0.4996 ppm	5.7371 ppm	0.2602 ppm	0.2762 ppm	0.2558 ppm
Concentration per Run 3	5.1913 ppm	0.2636 ppm	0.5062 ppm	5.6228 ppm	0.2601 ppm	0.2769 ppm	0.2583 ppm
Concentration RSD	0.2 %	0.4 %	1.0 %	1.3 %	0.4 %	0.3 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0623 ppm	0.4338 ppm	0.4849 ppm	0.4941 ppm	0.5234 ppm	0.0621 ppm	0.2583 ppm
Concentration per Run 1	0.0636 ppm	0.4354 ppm	0.4869 ppm	0.4937 ppm	0.5230 ppm	0.0615 ppm	0.2583 ppm
Concentration per Run 2	0.0625 ppm	0.4316 ppm	0.4830 ppm	0.4964 ppm	0.5239 ppm	0.0630 ppm	0.2585 ppm
Concentration per Run 3	0.0609 ppm	0.4343 ppm	0.4847 ppm	0.4924 ppm	0.5233 ppm	0.0618 ppm	0.2581 ppm
Concentration RSD	2.2 %	0.4 %	0.4 %	0.4 %	0.1 %	1.3 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2595 ppm	97.3780 %	99.3595 %	97.9703 %	104.4484 %	100.1532 %	102.9506 %
Concentration per Run 1	0.2607 ppm	97.2330 %	99.0658 %	98.0549 %	102.9638 %	99.8161 %	102.8293 %
Concentration per Run 2	0.2584 ppm	97.3921 %	99.5065 %	97.9465 %	104.9354 %	100.5123 %	103.1364 %
Concentration per Run 3	0.2595 ppm	97.5089 %	99.5061 %	97.9095 %	105.4459 %	100.1314 %	102.8862 %
Concentration RSD	0.5 %	0.1 %	0.3 %	0.1 %	1.3 %	0.3 %	0.2 %

LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/26/2024 6:43:46 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5379 ppm	0.5227 ppm	0.5071 ppm	0.5154 ppm	0.5172 ppm	0.5183 ppm	0.5185 ppm
Concentration per Run 1	0.5385 ppm	0.4982 ppm	0.5085 ppm	0.5152 ppm	0.4961 ppm	0.4958 ppm	0.4919 ppm
Concentration per Run 2	0.5379 ppm	0.5328 ppm	0.5094 ppm	0.5156 ppm	0.5299 ppm	0.5312 ppm	0.5328 ppm
Concentration per Run 3	0.5373 ppm	0.5371 ppm	0.5032 ppm	0.5153 ppm	0.5257 ppm	0.5280 ppm	0.5307 ppm
Recovery Percentage 1	107.582 %	104.536 %	101.411 %	103.073 %	103.447 %	103.664 %	103.694 %
Concentration RSD	0.1 %	4.1 %	0.7 %	0.0 %	3.6 %	3.8 %	4.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5125 ppm	0.5247 ppm	0.5281 ppm	0.5136 ppm	0.5307 ppm	5.4338 ppm	0.5199 ppm
Concentration per Run 1	0.5127 ppm	0.5254 ppm	0.5288 ppm	0.5147 ppm	0.5072 ppm	5.2180 ppm	0.4982 ppm
Concentration per Run 2	0.5135 ppm	0.5255 ppm	0.5289 ppm	0.5128 ppm	0.5414 ppm	5.5697 ppm	0.5316 ppm
Concentration per Run 3	0.5113 ppm	0.5232 ppm	0.5265 ppm	0.5135 ppm	0.5435 ppm	5.5137 ppm	0.5298 ppm
Recovery Percentage 1	102.499 %	104.940 %	105.615 %	102.728 %	106.144 %	108.676 %	103.976 %
Concentration RSD	0.2 %	0.3 %	0.3 %	0.2 %	3.8 %	3.5 %	3.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5183 ppm	0.5193 ppm	0.5156 ppm	10.6368 ppm	0.5186 ppm	0.5162 ppm	0.5247 ppm
Concentration per Run 1	0.5187 ppm	0.4971 ppm	0.5128 ppm	10.2156 ppm	0.5186 ppm	0.5172 ppm	0.5239 ppm
Concentration per Run 2	0.5195 ppm	0.5316 ppm	0.5161 ppm	10.8742 ppm	0.5200 ppm	0.5177 ppm	0.5267 ppm
Concentration per Run 3	0.5166 ppm	0.5291 ppm	0.5179 ppm	10.8208 ppm	0.5173 ppm	0.5137 ppm	0.5235 ppm
Recovery Percentage 1	103.651 %	103.852 %	103.119 %	106.368 %	103.726 %	103.242 %	104.942 %
Concentration RSD	0.3 %	3.7 %	0.5 %	3.4 %	0.3 %	0.4 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5170 ppm	5.7086 ppm	0.4796 ppm	0.4979 ppm	0.5240 ppm	0.5211 ppm	0.5087 ppm
Concentration per Run 1	0.5171 ppm	5.7152 ppm	0.4792 ppm	0.4775 ppm	0.5242 ppm	0.5198 ppm	0.5092 ppm
Concentration per Run 2	0.5188 ppm	5.7188 ppm	0.4818 ppm	0.5100 ppm	0.5239 ppm	0.5232 ppm	0.5085 ppm
Concentration per Run 3	0.5152 ppm	5.6918 ppm	0.4779 ppm	0.5062 ppm	0.5239 ppm	0.5202 ppm	0.5085 ppm
Recovery Percentage 1	103.405 %	108.736 %	95.926 %	99.581 %	104.803 %	104.213 %	101.750 %
Concentration RSD	0.3 %	0.3 %	0.4 %	3.6 %	0.0 %	0.4 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5182 ppm	95.5636 %	96.9109 %	95.9480 %	104.6295 %	99.0519 %	101.1835 %
Concentration per Run 1	0.5190 ppm	99.4627 %	96.8306 %	96.1547 %	107.7891 %	99.1335 %	100.9657 %
Concentration per Run 2	0.5192 ppm	93.7430 %	96.8330 %	95.5912 %	103.3186 %	98.6746 %	101.1596 %
Concentration per Run 3	0.5163 ppm	93.4851 %	97.0690 %	96.0981 %	102.7807 %	99.3476 %	101.4251 %
Recovery Percentage 1	103.633 %						
Concentration RSD	0.3 %	3.5 %	0.1 %	0.3 %	2.6 %	0.3 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/26/2024 6:49:49 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0039 ppm	-0.0014 ppm	0.0012 ppm	0.0002 ppm	0.0001 ppm	-0.0050 ppm
Concentration per Run 1	0.0001 ppm	0.0123 ppm	-0.0021 ppm	0.0012 ppm	0.0002 ppm	0.0002 ppm	-0.0060 ppm
Concentration per Run 2	0.0007 ppm	0.0011 ppm	-0.0013 ppm	0.0013 ppm	0.0001 ppm	0.0001 ppm	-0.0018 ppm
Concentration per Run 3	0.0007 ppm	-0.0015 ppm	-0.0009 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	-0.0072 ppm
Recovery Percentage 1	6.934 %	3.928 %	-28.699 %	3.880 %	1.831 %	2.179 %	-5.000 %
Concentration RSD	66.4 %	186.8 %	42.5 %	14.0 %	28.9 %	52.7 %	56.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0008 ppm	-0.0917 ppm	-0.0032 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0004 ppm	-0.0002 ppm	0.0006 ppm	-0.1200 ppm	-0.0038 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	-0.0693 ppm	-0.0034 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0016 ppm	-0.0857 ppm	-0.0026 ppm
Recovery Percentage 1	-0.363 %	0.184 %	-1.247 %	1.619 %	1.683 %	-3.667 %	-32.460 %
Concentration RSD	209.8 %	391.8 %	181.0 %	220.7 %	75.4 %	28.2 %	18.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0003 ppm	0.0001 ppm	0.0025 ppm	0.0072 ppm	0.0002 ppm	-0.0012 ppm	0.0018 ppm
Concentration per Run 1	0.0019 ppm	0.0007 ppm	0.0028 ppm	0.0132 ppm	0.0003 ppm	-0.0012 ppm	0.0008 ppm
Concentration per Run 2	-0.0013 ppm	-0.0005 ppm	0.0026 ppm	0.0015 ppm	0.0002 ppm	-0.0013 ppm	0.0035 ppm
Concentration per Run 3	0.0003 ppm	0.0001 ppm	0.0022 ppm	0.0069 ppm	-0.0001 ppm	-0.0012 ppm	0.0010 ppm
Recovery Percentage 1	0.311 %	0.696 %	5.076 %	0.359 %	0.615 %	-12.263 %	3.565 %
Concentration RSD	519.7 %	861.2 %	11.6 %	81.8 %	124.5 %	7.4 %	83.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0016 ppm	0.0043 ppm	0.0006 ppm	0.0001 ppm	0.0002 ppm	-0.0008 ppm	0.0003 ppm
Concentration per Run 1	-0.0028 ppm	0.0043 ppm	0.0004 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 2	-0.0024 ppm	0.0046 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 3	0.0004 ppm	0.0038 ppm	0.0005 ppm	0.0001 ppm	0.0006 ppm	-0.0016 ppm	0.0003 ppm
Recovery Percentage 1	-15.839 %	0.852 %	1.148 %	0.630 %	1.590 %	-3.879 %	2.680 %
Concentration RSD	109.1 %	9.1 %	39.3 %	74.4 %	242.1 %	106.2 %	158.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	98.1734 %	97.8681 %	96.5426 %	99.3944 %	98.1841 %	98.7646 %
Concentration per Run 1	0.0003 ppm	97.2520 %	97.6869 %	96.2981 %	96.5169 %	97.9415 %	98.5939 %
Concentration per Run 2	0.0003 ppm	97.7122 %	97.8898 %	96.6756 %	99.1799 %	98.0585 %	98.7877 %
Concentration per Run 3	0.0003 ppm	99.5559 %	98.0275 %	96.6542 %	102.4864 %	98.5524 %	98.9122 %
Recovery Percentage 1	5.653 %						
Concentration RSD	7.1 %	1.2 %	0.2 %	0.2 %	3.0 %	0.3 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-05d2 WG1975352
Analysis started at: 9/26/2024 6:59:26 PM
Comments <Comment>
Rack: 1
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0027 ppm	113.7097 ppm	0.2978 ppm	0.0041 ppm	0.2264 ppm	0.0048 ppm	6.2389 ppm
Concentration per Run 1	0.0024 ppm	113.5778 ppm	0.3002 ppm	0.0042 ppm	0.2261 ppm	0.0048 ppm	6.2472 ppm
Concentration per Run 2	0.0032 ppm	114.1643 ppm	0.2981 ppm	0.0037 ppm	0.2271 ppm	0.0048 ppm	6.2535 ppm
Concentration per Run 3	0.0025 ppm	113.3870 ppm	0.2953 ppm	0.0046 ppm	0.2259 ppm	0.0048 ppm	6.2161 ppm
Concentration RSD	18.1 %	0.4 %	0.8 %	10.5 %	0.3 %	0.5 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0014 ppm	0.0282 ppm	0.1401 ppm	0.0567 ppm	96.8181 ppm	4.1331 ppm	0.0811 ppm
Concentration per Run 1	0.0015 ppm	0.0283 ppm	0.1395 ppm	0.0570 ppm	96.5501 ppm	4.1271 ppm	0.0821 ppm
Concentration per Run 2	0.0014 ppm	0.0282 ppm	0.1398 ppm	0.0567 ppm	97.2600 ppm	4.1318 ppm	0.0812 ppm
Concentration per Run 3	0.0013 ppm	0.0280 ppm	0.1411 ppm	0.0564 ppm	96.6441 ppm	4.1405 ppm	0.0801 ppm
Concentration RSD	5.5 %	0.6 %	0.6 %	0.6 %	0.4 %	0.2 %	1.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	12.4022 ppm	1.6240 ppm	0.0025 ppm	0.3609 ppm	0.0760 ppm	0.6058 ppm	0.0086 ppm
Concentration per Run 1	12.4045 ppm	1.6196 ppm	0.0024 ppm	0.3582 ppm	0.0760 ppm	0.6062 ppm	0.0091 ppm
Concentration per Run 2	12.4125 ppm	1.6333 ppm	0.0026 ppm	0.3616 ppm	0.0766 ppm	0.6096 ppm	0.0092 ppm
Concentration per Run 3	12.3895 ppm	1.6191 ppm	0.0024 ppm	0.3629 ppm	0.0755 ppm	0.6017 ppm	0.0075 ppm
Concentration RSD	0.1 %	0.5 %	4.0 %	0.7 %	0.7 %	0.7 %	11.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0058 ppm	8.5223 ppm	0.0076 ppm	0.0261 ppm	2.7259 ppm	0.0021 ppm	0.1682 ppm
Concentration per Run 1	0.0056 ppm	8.4750 ppm	0.0078 ppm	0.0260 ppm	2.7250 ppm	0.0029 ppm	0.1682 ppm
Concentration per Run 2	0.0076 ppm	8.5940 ppm	0.0077 ppm	0.0262 ppm	2.7284 ppm	0.0017 ppm	0.1685 ppm
Concentration per Run 3	0.0041 ppm	8.4980 ppm	0.0072 ppm	0.0262 ppm	2.7242 ppm	0.0018 ppm	0.1680 ppm
Concentration RSD	30.3 %	0.7 %	3.8 %	0.3 %	0.1 %	30.6 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2825 ppm	107.1771 %	105.1305 %	104.5884 %	113.6119 %	99.0169 %	104.9233 %
Concentration per Run 1	0.2828 ppm	106.8743 %	105.1157 %	104.6096 %	112.7241 %	99.3441 %	105.2011 %
Concentration per Run 2	0.2839 ppm	106.3908 %	105.1035 %	104.6853 %	113.2865 %	98.6599 %	104.8763 %
Concentration per Run 3	0.2808 ppm	108.2662 %	105.1724 %	104.4702 %	114.8250 %	99.0465 %	104.6925 %
Concentration RSD	0.6 %	0.9 %	0.0 %	0.1 %	1.0 %	0.3 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-06d2 WG1975352
Analysis started at: 9/26/2024 7:05:33 PM
Comments <Comment>
Rack: 1
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0023 ppm	111.3097 ppm	0.2931 ppm	0.0039 ppm	0.2848 ppm	0.0054 ppm	8.2264 ppm
Concentration per Run 1	0.0027 ppm	111.3394 ppm	0.2929 ppm	0.0040 ppm	0.2855 ppm	0.0054 ppm	8.2347 ppm
Concentration per Run 2	0.0019 ppm	113.2852 ppm	0.2932 ppm	0.0044 ppm	0.2894 ppm	0.0055 ppm	8.3536 ppm
Concentration per Run 3	0.0022 ppm	109.3045 ppm	0.2932 ppm	0.0033 ppm	0.2794 ppm	0.0053 ppm	8.0909 ppm
Concentration RSD	19.4 %	1.8 %	0.1 %	13.7 %	1.8 %	2.1 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0016 ppm	0.0360 ppm	0.1591 ppm	0.0615 ppm	97.8832 ppm	8.3297 ppm	0.1030 ppm
Concentration per Run 1	0.0016 ppm	0.0357 ppm	0.1599 ppm	0.0617 ppm	97.7425 ppm	8.3826 ppm	0.1006 ppm
Concentration per Run 2	0.0016 ppm	0.0361 ppm	0.1587 ppm	0.0617 ppm	99.7169 ppm	8.4606 ppm	0.1051 ppm
Concentration per Run 3	0.0016 ppm	0.0362 ppm	0.1585 ppm	0.0611 ppm	96.1903 ppm	8.1458 ppm	0.1032 ppm
Concentration RSD	1.1 %	0.7 %	0.5 %	0.5 %	1.8 %	2.0 %	2.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	16.7820 ppm	2.0606 ppm	0.0040 ppm	0.4690 ppm	0.0814 ppm	0.9357 ppm	0.0095 ppm
Concentration per Run 1	16.8473 ppm	2.0596 ppm	0.0038 ppm	0.4795 ppm	0.0816 ppm	0.9354 ppm	0.0097 ppm
Concentration per Run 2	16.7765 ppm	2.0999 ppm	0.0038 ppm	0.4783 ppm	0.0815 ppm	0.9353 ppm	0.0093 ppm
Concentration per Run 3	16.7221 ppm	2.0222 ppm	0.0043 ppm	0.4492 ppm	0.0813 ppm	0.9365 ppm	0.0094 ppm
Concentration RSD	0.4 %	1.9 %	7.4 %	3.7 %	0.2 %	0.1 %	2.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0053 ppm	6.6575 ppm	0.0070 ppm	0.0293 ppm	3.2978 ppm	0.0030 ppm	0.1745 ppm
Concentration per Run 1	0.0050 ppm	6.6295 ppm	0.0075 ppm	0.0294 ppm	3.3106 ppm	0.0022 ppm	0.1746 ppm
Concentration per Run 2	0.0036 ppm	6.6541 ppm	0.0062 ppm	0.0300 ppm	3.2959 ppm	0.0025 ppm	0.1745 ppm
Concentration per Run 3	0.0072 ppm	6.6889 ppm	0.0073 ppm	0.0286 ppm	3.2871 ppm	0.0042 ppm	0.1743 ppm
Concentration RSD	34.7 %	0.4 %	10.0 %	2.5 %	0.4 %	36.3 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3492 ppm	103.9986 %	107.9674 %	107.2700 %	105.0039 %	99.0187 %	104.8584 %
Concentration per Run 1	0.3495 ppm	103.7798 %	107.9319 %	107.1905 %	104.4993 %	98.8653 %	104.5879 %
Concentration per Run 2	0.3491 ppm	102.3069 %	108.0815 %	107.2820 %	103.0808 %	99.2385 %	104.9430 %
Concentration per Run 3	0.3491 ppm	105.9090 %	107.8886 %	107.3375 %	107.4315 %	98.9522 %	105.0444 %
Concentration RSD	0.1 %	1.7 %	0.1 %	0.1 %	2.1 %	0.2 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-07d2 WG1975352
Analysis started at: 9/26/2024 7:11:40 PM
Comments <Comment>
Rack: 1
Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0018 ppm	90.5081 ppm	0.3640 ppm	0.0032 ppm	0.1572 ppm	0.0040 ppm	6.3238 ppm
Concentration per Run 1	0.0018 ppm	88.1000 ppm	0.3619 ppm	0.0035 ppm	0.1533 ppm	0.0039 ppm	6.1562 ppm
Concentration per Run 2	0.0016 ppm	91.8406 ppm	0.3626 ppm	0.0033 ppm	0.1594 ppm	0.0041 ppm	6.4221 ppm
Concentration per Run 3	0.0019 ppm	91.5838 ppm	0.3676 ppm	0.0028 ppm	0.1589 ppm	0.0040 ppm	6.3933 ppm
Concentration RSD	9.6 %	2.3 %	0.9 %	10.8 %	2.2 %	1.6 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0014 ppm	0.0247 ppm	0.1288 ppm	0.0637 ppm	71.5437 ppm	4.2532 ppm	0.0722 ppm
Concentration per Run 1	0.0013 ppm	0.0245 ppm	0.1287 ppm	0.0639 ppm	69.5400 ppm	4.1669 ppm	0.0707 ppm
Concentration per Run 2	0.0014 ppm	0.0247 ppm	0.1293 ppm	0.0635 ppm	72.6948 ppm	4.2894 ppm	0.0726 ppm
Concentration per Run 3	0.0014 ppm	0.0250 ppm	0.1284 ppm	0.0638 ppm	72.3963 ppm	4.3033 ppm	0.0733 ppm
Concentration RSD	2.9 %	1.0 %	0.3 %	0.3 %	2.4 %	1.8 %	1.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	11.8510 ppm	1.3176 ppm	0.0027 ppm	0.3830 ppm	0.0730 ppm	1.0013 ppm	0.0084 ppm
Concentration per Run 1	11.8728 ppm	1.2845 ppm	0.0025 ppm	0.3711 ppm	0.0729 ppm	1.0015 ppm	0.0082 ppm
Concentration per Run 2	11.8702 ppm	1.3372 ppm	0.0028 ppm	0.3872 ppm	0.0730 ppm	1.0015 ppm	0.0080 ppm
Concentration per Run 3	11.8099 ppm	1.3312 ppm	0.0027 ppm	0.3907 ppm	0.0731 ppm	1.0009 ppm	0.0089 ppm
Concentration RSD	0.3 %	2.2 %	6.2 %	2.7 %	0.1 %	0.0 %	5.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0056 ppm	8.8975 ppm	0.0067 ppm	0.0242 ppm	2.4043 ppm	0.0014 ppm	0.1362 ppm
Concentration per Run 1	0.0058 ppm	8.8649 ppm	0.0071 ppm	0.0234 ppm	2.4080 ppm	-0.0002 ppm	0.1367 ppm
Concentration per Run 2	0.0063 ppm	8.8894 ppm	0.0060 ppm	0.0246 ppm	2.4042 ppm	0.0019 ppm	0.1360 ppm
Concentration per Run 3	0.0046 ppm	8.9382 ppm	0.0069 ppm	0.0246 ppm	2.4007 ppm	0.0025 ppm	0.1359 ppm
Concentration RSD	16.3 %	0.4 %	8.2 %	3.0 %	0.2 %	99.2 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3272 ppm	108.2140 %	107.0373 %	106.2594 %	110.7631 %	98.8513 %	104.5354 %
Concentration per Run 1	0.3267 ppm	110.4646 %	106.6053 %	106.1376 %	111.8988 %	98.8882 %	104.1476 %
Concentration per Run 2	0.3269 ppm	106.9651 %	106.6471 %	106.1807 %	109.9120 %	98.8574 %	104.1151 %
Concentration per Run 3	0.3279 ppm	107.2123 %	107.8595 %	106.4600 %	110.4787 %	98.8083 %	105.3434 %
Concentration RSD	0.2 %	1.8 %	0.7 %	0.2 %	0.9 %	0.0 %	0.7 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-08d2 WG1975352
Analysis started at: 9/26/2024 7:18:12 PM
Comments <Comment>
Rack: 1
Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0024 ppm	107.8475 ppm	0.4723 ppm	0.0041 ppm	0.2254 ppm	0.0048 ppm	7.4317 ppm
Concentration per Run 1	0.0027 ppm	103.9158 ppm	0.4711 ppm	0.0044 ppm	0.2169 ppm	0.0045 ppm	7.1610 ppm
Concentration per Run 2	0.0022 ppm	109.6578 ppm	0.4730 ppm	0.0038 ppm	0.2295 ppm	0.0048 ppm	7.5616 ppm
Concentration per Run 3	0.0025 ppm	109.9688 ppm	0.4729 ppm	0.0042 ppm	0.2298 ppm	0.0050 ppm	7.5724 ppm
Concentration RSD	9.7 %	3.2 %	0.2 %	6.9 %	3.3 %	4.4 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0016 ppm	0.0274 ppm	0.1474 ppm	0.1104 ppm	87.4906 ppm	4.6191 ppm	0.0803 ppm
Concentration per Run 1	0.0016 ppm	0.0273 ppm	0.1475 ppm	0.1113 ppm	84.1290 ppm	4.4802 ppm	0.0774 ppm
Concentration per Run 2	0.0015 ppm	0.0274 ppm	0.1473 ppm	0.1101 ppm	88.9983 ppm	4.7064 ppm	0.0809 ppm
Concentration per Run 3	0.0015 ppm	0.0276 ppm	0.1473 ppm	0.1099 ppm	89.3444 ppm	4.6706 ppm	0.0828 ppm
Concentration RSD	3.8 %	0.6 %	0.1 %	0.7 %	3.3 %	2.6 %	3.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.7022 ppm	1.5148 ppm	0.0037 ppm	0.3918 ppm	0.0824 ppm	1.3626 ppm	0.0098 ppm
Concentration per Run 1	13.6991 ppm	1.4597 ppm	0.0037 ppm	0.3908 ppm	0.0821 ppm	1.3569 ppm	0.0092 ppm
Concentration per Run 2	13.6891 ppm	1.5382 ppm	0.0038 ppm	0.3828 ppm	0.0823 ppm	1.3645 ppm	0.0093 ppm
Concentration per Run 3	13.7184 ppm	1.5465 ppm	0.0034 ppm	0.4018 ppm	0.0827 ppm	1.3664 ppm	0.0108 ppm
Concentration RSD	0.1 %	3.2 %	6.3 %	2.4 %	0.3 %	0.4 %	9.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0053 ppm	9.3727 ppm	0.0092 ppm	0.0230 ppm	2.7096 ppm	0.0008 ppm	0.1696 ppm
Concentration per Run 1	0.0067 ppm	9.3152 ppm	0.0089 ppm	0.0222 ppm	2.7133 ppm	-0.0005 ppm	0.1698 ppm
Concentration per Run 2	0.0039 ppm	9.4054 ppm	0.0094 ppm	0.0233 ppm	2.7055 ppm	0.0023 ppm	0.1694 ppm
Concentration per Run 3	0.0054 ppm	9.3974 ppm	0.0092 ppm	0.0235 ppm	2.7101 ppm	0.0006 ppm	0.1696 ppm
Concentration RSD	26.3 %	0.5 %	2.8 %	3.0 %	0.1 %	168.7 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3618 ppm	112.3711 %	109.0990 %	108.2901 %	116.5544 %	99.9264 %	106.5131 %
Concentration per Run 1	0.3610 ppm	115.7106 %	108.8195 %	108.2322 %	119.1642 %	100.0332 %	106.2835 %
Concentration per Run 2	0.3618 ppm	111.2673 %	109.0992 %	108.5619 %	115.8707 %	100.0553 %	106.5992 %
Concentration per Run 3	0.3625 ppm	110.1354 %	109.3784 %	108.0761 %	114.6283 %	99.6906 %	106.6568 %
Concentration RSD	0.2 %	2.6 %	0.3 %	0.2 %	2.0 %	0.2 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-09d2 WG1975352
Analysis started at: 9/26/2024 7:25:03 PM
Comments <Comment>
Rack: 1
Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0022 ppm	104.1330 ppm	0.5017 ppm	0.0037 ppm	0.1536 ppm	0.0040 ppm	5.7433 ppm
Concentration per Run 1	0.0022 ppm	99.9446 ppm	0.5009 ppm	0.0036 ppm	0.1477 ppm	0.0038 ppm	5.5114 ppm
Concentration per Run 2	0.0021 ppm	105.0224 ppm	0.5012 ppm	0.0034 ppm	0.1547 ppm	0.0041 ppm	5.7947 ppm
Concentration per Run 3	0.0024 ppm	107.4321 ppm	0.5031 ppm	0.0041 ppm	0.1586 ppm	0.0041 ppm	5.9239 ppm
Concentration RSD	6.8 %	3.7 %	0.2 %	10.6 %	3.6 %	4.9 %	3.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0015 ppm	0.0225 ppm	0.1241 ppm	0.0505 ppm	82.5377 ppm	2.9281 ppm	0.0670 ppm
Concentration per Run 1	0.0015 ppm	0.0224 ppm	0.1246 ppm	0.0507 ppm	79.2145 ppm	2.8050 ppm	0.0639 ppm
Concentration per Run 2	0.0015 ppm	0.0225 ppm	0.1234 ppm	0.0508 ppm	83.4011 ppm	2.9510 ppm	0.0684 ppm
Concentration per Run 3	0.0015 ppm	0.0224 ppm	0.1243 ppm	0.0501 ppm	84.9976 ppm	3.0282 ppm	0.0686 ppm
Concentration RSD	2.4 %	0.3 %	0.5 %	0.8 %	3.6 %	3.9 %	4.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.1366 ppm	1.8376 ppm	0.0027 ppm	0.3667 ppm	0.0632 ppm	1.0135 ppm	0.0097 ppm
Concentration per Run 1	10.1264 ppm	1.7647 ppm	0.0029 ppm	0.3549 ppm	0.0634 ppm	1.0138 ppm	0.0088 ppm
Concentration per Run 2	10.1324 ppm	1.8578 ppm	0.0026 ppm	0.3579 ppm	0.0629 ppm	1.0124 ppm	0.0100 ppm
Concentration per Run 3	10.1509 ppm	1.8904 ppm	0.0025 ppm	0.3874 ppm	0.0632 ppm	1.0144 ppm	0.0102 ppm
Concentration RSD	0.1 %	3.6 %	6.9 %	4.9 %	0.4 %	0.1 %	7.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0062 ppm	9.8365 ppm	0.0063 ppm	0.0205 ppm	2.0914 ppm	0.0009 ppm	0.1523 ppm
Concentration per Run 1	0.0073 ppm	9.8174 ppm	0.0062 ppm	0.0198 ppm	2.0877 ppm	0.0000 ppm	0.1520 ppm
Concentration per Run 2	0.0046 ppm	9.8385 ppm	0.0069 ppm	0.0206 ppm	2.0935 ppm	0.0010 ppm	0.1521 ppm
Concentration per Run 3	0.0067 ppm	9.8537 ppm	0.0058 ppm	0.0211 ppm	2.0929 ppm	0.0017 ppm	0.1528 ppm
Concentration RSD	23.2 %	0.2 %	8.8 %	3.1 %	0.2 %	95.0 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3301 ppm	113.0752 %	107.6529 %	106.8891 %	120.6536 %	100.5862 %	107.1627 %
Concentration per Run 1	0.3298 ppm	117.3154 %	107.7596 %	107.0911 %	125.3051 %	100.7861 %	107.3437 %
Concentration per Run 2	0.3299 ppm	111.9636 %	107.3868 %	106.9742 %	119.0647 %	100.6476 %	106.9628 %
Concentration per Run 3	0.3306 ppm	109.9467 %	107.8123 %	106.6020 %	117.5910 %	100.3250 %	107.1815 %
Concentration RSD	0.1 %	3.4 %	0.2 %	0.2 %	3.4 %	0.2 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-10d2 WG1975352
Analysis started at: 9/26/2024 7:31:35 PM
Comments <Comment>
Rack: 1
Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0016 ppm	80.0579 ppm	0.1722 ppm	0.0067 ppm	0.1525 ppm	0.0035 ppm	14.2325 ppm
Concentration per Run 1	0.0019 ppm	80.0515 ppm	0.1733 ppm	0.0064 ppm	0.1527 ppm	0.0035 ppm	14.2288 ppm
Concentration per Run 2	0.0013 ppm	80.0396 ppm	0.1716 ppm	0.0063 ppm	0.1526 ppm	0.0035 ppm	14.2318 ppm
Concentration per Run 3	0.0015 ppm	80.0827 ppm	0.1717 ppm	0.0074 ppm	0.1522 ppm	0.0035 ppm	14.2367 ppm
Concentration RSD	19.0 %	0.0 %	0.6 %	9.3 %	0.2 %	0.5 %	0.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0010 ppm	0.0289 ppm	0.1039 ppm	0.0667 ppm	74.1477 ppm	6.3720 ppm	0.0782 ppm
Concentration per Run 1	0.0011 ppm	0.0292 ppm	0.1035 ppm	0.0669 ppm	74.0605 ppm	6.4041 ppm	0.0786 ppm
Concentration per Run 2	0.0010 ppm	0.0288 ppm	0.1035 ppm	0.0665 ppm	74.1165 ppm	6.3610 ppm	0.0777 ppm
Concentration per Run 3	0.0010 ppm	0.0288 ppm	0.1046 ppm	0.0667 ppm	74.2662 ppm	6.3508 ppm	0.0782 ppm
Concentration RSD	3.5 %	0.9 %	0.6 %	0.3 %	0.1 %	0.4 %	0.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	18.7640 ppm	1.2780 ppm	0.0021 ppm	0.5528 ppm	0.0760 ppm	0.4413 ppm	0.0045 ppm
Concentration per Run 1	18.7103 ppm	1.2782 ppm	0.0019 ppm	0.5572 ppm	0.0757 ppm	0.4404 ppm	0.0032 ppm
Concentration per Run 2	18.7397 ppm	1.2786 ppm	0.0023 ppm	0.5523 ppm	0.0761 ppm	0.4417 ppm	0.0035 ppm
Concentration per Run 3	18.8418 ppm	1.2772 ppm	0.0021 ppm	0.5489 ppm	0.0760 ppm	0.4417 ppm	0.0067 ppm
Concentration RSD	0.4 %	0.1 %	10.2 %	0.8 %	0.3 %	0.2 %	43.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0057 ppm	7.9118 ppm	0.0060 ppm	0.0419 ppm	2.6594 ppm	0.0000 ppm	0.1403 ppm
Concentration per Run 1	0.0062 ppm	7.8887 ppm	0.0066 ppm	0.0418 ppm	2.6507 ppm	-0.0001 ppm	0.1398 ppm
Concentration per Run 2	0.0055 ppm	7.9079 ppm	0.0057 ppm	0.0420 ppm	2.6600 ppm	0.0003 ppm	0.1408 ppm
Concentration per Run 3	0.0052 ppm	7.9387 ppm	0.0057 ppm	0.0419 ppm	2.6676 ppm	0.0000 ppm	0.1403 ppm
Concentration RSD	9.0 %	0.3 %	9.2 %	0.2 %	0.3 %	516.1 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3501 ppm	108.7292 %	106.8602 %	105.9475 %	113.6855 %	99.9091 %	105.6725 %
Concentration per Run 1	0.3496 ppm	108.5478 %	106.9143 %	105.9479 %	113.7043 %	99.8754 %	105.8540 %
Concentration per Run 2	0.3501 ppm	108.9135 %	107.1423 %	105.9431 %	113.7471 %	100.0042 %	105.9791 %
Concentration per Run 3	0.3507 ppm	108.7263 %	106.5241 %	105.9513 %	113.6051 %	99.8477 %	105.1844 %
Concentration RSD	0.2 %	0.2 %	0.3 %	0.0 %	0.1 %	0.1 %	0.4 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-11d2 WG1975352
Analysis started at: 9/26/2024 7:37:46 PM
Comments <Comment>
Rack: 1
Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0022 ppm	88.9211 ppm	0.3316 ppm	0.0037 ppm	0.1645 ppm	0.0038 ppm	6.6277 ppm
Concentration per Run 1	0.0023 ppm	85.6641 ppm	0.3357 ppm	0.0039 ppm	0.1578 ppm	0.0036 ppm	6.3929 ppm
Concentration per Run 2	0.0020 ppm	89.5540 ppm	0.3316 ppm	0.0035 ppm	0.1662 ppm	0.0038 ppm	6.6704 ppm
Concentration per Run 3	0.0023 ppm	91.5452 ppm	0.3274 ppm	0.0038 ppm	0.1695 ppm	0.0040 ppm	6.8199 ppm
Concentration RSD	7.4 %	3.4 %	1.2 %	4.8 %	3.7 %	4.1 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0015 ppm	0.0253 ppm	0.1172 ppm	0.0677 ppm	70.8296 ppm	4.6254 ppm	0.0662 ppm
Concentration per Run 1	0.0015 ppm	0.0255 ppm	0.1169 ppm	0.0677 ppm	68.1198 ppm	4.4333 ppm	0.0622 ppm
Concentration per Run 2	0.0014 ppm	0.0254 ppm	0.1174 ppm	0.0679 ppm	71.3504 ppm	4.6830 ppm	0.0673 ppm
Concentration per Run 3	0.0015 ppm	0.0251 ppm	0.1175 ppm	0.0676 ppm	73.0185 ppm	4.7598 ppm	0.0690 ppm
Concentration RSD	2.0 %	0.8 %	0.3 %	0.2 %	3.5 %	3.7 %	5.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	12.2041 ppm	1.3021 ppm	0.0029 ppm	0.4192 ppm	0.0683 ppm	1.1106 ppm	0.0075 ppm
Concentration per Run 1	12.1864 ppm	1.2541 ppm	0.0032 ppm	0.4161 ppm	0.0689 ppm	1.1188 ppm	0.0094 ppm
Concentration per Run 2	12.2299 ppm	1.3114 ppm	0.0027 ppm	0.4201 ppm	0.0681 ppm	1.1097 ppm	0.0057 ppm
Concentration per Run 3	12.1959 ppm	1.3409 ppm	0.0029 ppm	0.4215 ppm	0.0680 ppm	1.1035 ppm	0.0073 ppm
Concentration RSD	0.2 %	3.4 %	9.1 %	0.7 %	0.7 %	0.7 %	24.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0047 ppm	8.3906 ppm	0.0067 ppm	0.0241 ppm	2.3654 ppm	0.0011 ppm	0.1362 ppm
Concentration per Run 1	0.0031 ppm	8.4253 ppm	0.0066 ppm	0.0232 ppm	2.3607 ppm	0.0015 ppm	0.1359 ppm
Concentration per Run 2	0.0068 ppm	8.4045 ppm	0.0065 ppm	0.0243 ppm	2.3674 ppm	0.0016 ppm	0.1367 ppm
Concentration per Run 3	0.0042 ppm	8.3418 ppm	0.0072 ppm	0.0249 ppm	2.3681 ppm	0.0001 ppm	0.1359 ppm
Concentration RSD	39.5 %	0.5 %	5.3 %	3.6 %	0.2 %	75.6 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2705 ppm	109.1964 %	105.6396 %	104.0179 %	114.9286 %	98.8866 %	105.0699 %
Concentration per Run 1	0.2723 ppm	112.2786 %	105.4673 %	104.3343 %	117.5544 %	98.8110 %	104.8611 %
Concentration per Run 2	0.2705 ppm	108.5828 %	105.8232 %	103.8330 %	114.1722 %	98.8724 %	105.0609 %
Concentration per Run 3	0.2688 ppm	106.7277 %	105.6282 %	103.8865 %	113.0592 %	98.9766 %	105.2876 %
Concentration RSD	0.7 %	2.6 %	0.2 %	0.3 %	2.0 %	0.1 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-12d2 WG1975352
Analysis started at: 9/26/2024 7:43:54 PM
Comments <Comment>
Rack: 1
Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0016 ppm	87.9941 ppm	0.2209 ppm	0.0024 ppm	0.1238 ppm	0.0037 ppm	4.0145 ppm
Concentration per Run 1	0.0015 ppm	86.6533 ppm	0.2228 ppm	0.0021 ppm	0.1216 ppm	0.0037 ppm	3.9375 ppm
Concentration per Run 2	0.0017 ppm	88.5707 ppm	0.2204 ppm	0.0028 ppm	0.1248 ppm	0.0038 ppm	4.0587 ppm
Concentration per Run 3	0.0017 ppm	88.7581 ppm	0.2195 ppm	0.0024 ppm	0.1249 ppm	0.0038 ppm	4.0472 ppm
Concentration RSD	7.7 %	1.3 %	0.8 %	14.8 %	1.5 %	1.0 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0010 ppm	0.0261 ppm	0.1172 ppm	0.0564 ppm	66.2936 ppm	4.7148 ppm	0.0713 ppm
Concentration per Run 1	0.0010 ppm	0.0262 ppm	0.1177 ppm	0.0565 ppm	65.1155 ppm	4.6160 ppm	0.0699 ppm
Concentration per Run 2	0.0010 ppm	0.0260 ppm	0.1167 ppm	0.0565 ppm	66.7808 ppm	4.7581 ppm	0.0729 ppm
Concentration per Run 3	0.0010 ppm	0.0262 ppm	0.1172 ppm	0.0561 ppm	66.9846 ppm	4.7701 ppm	0.0710 ppm
Concentration RSD	1.8 %	0.3 %	0.4 %	0.4 %	1.5 %	1.8 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	11.1780 ppm	1.0406 ppm	0.0015 ppm	0.4243 ppm	0.0787 ppm	0.5060 ppm	0.0060 ppm
Concentration per Run 1	11.2143 ppm	1.0221 ppm	0.0014 ppm	0.4152 ppm	0.0789 ppm	0.5097 ppm	0.0057 ppm
Concentration per Run 2	11.1559 ppm	1.0483 ppm	0.0016 ppm	0.4259 ppm	0.0789 ppm	0.5046 ppm	0.0066 ppm
Concentration per Run 3	11.1636 ppm	1.0514 ppm	0.0016 ppm	0.4318 ppm	0.0783 ppm	0.5038 ppm	0.0057 ppm
Concentration RSD	0.3 %	1.5 %	7.6 %	2.0 %	0.5 %	0.6 %	8.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0049 ppm	10.0311 ppm	0.0051 ppm	0.0222 ppm	2.8109 ppm	0.0009 ppm	0.1182 ppm
Concentration per Run 1	0.0067 ppm	10.0786 ppm	0.0049 ppm	0.0216 ppm	2.8172 ppm	0.0023 ppm	0.1185 ppm
Concentration per Run 2	0.0026 ppm	10.0248 ppm	0.0060 ppm	0.0225 ppm	2.8098 ppm	-0.0008 ppm	0.1181 ppm
Concentration per Run 3	0.0054 ppm	9.9898 ppm	0.0044 ppm	0.0224 ppm	2.8058 ppm	0.0013 ppm	0.1179 ppm
Concentration RSD	42.3 %	0.4 %	16.0 %	2.1 %	0.2 %	165.8 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2114 ppm	104.6989 %	104.2982 %	103.4702 %	108.6885 %	98.4220 %	104.1075 %
Concentration per Run 1	0.2130 ppm	105.8739 %	104.0888 %	102.9813 %	109.1768 %	97.7240 %	103.7711 %
Concentration per Run 2	0.2110 ppm	104.2631 %	104.4195 %	103.5380 %	107.9381 %	98.6617 %	104.3179 %
Concentration per Run 3	0.2101 ppm	103.9596 %	104.3864 %	103.8912 %	108.9506 %	98.8803 %	104.2336 %
Concentration RSD	0.7 %	1.0 %	0.2 %	0.4 %	0.6 %	0.6 %	0.3 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-13d2 WG1975352
Analysis started at: 9/26/2024 7:50:02 PM
Comments <Comment>
Rack: 1
Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0022 ppm	108.4010 ppm	0.4800 ppm	0.0046 ppm	0.3766 ppm	0.0047 ppm	7.5136 ppm
Concentration per Run 1	0.0021 ppm	104.3108 ppm	0.4781 ppm	0.0049 ppm	0.3627 ppm	0.0045 ppm	7.2401 ppm
Concentration per Run 2	0.0022 ppm	110.8148 ppm	0.4818 ppm	0.0046 ppm	0.3848 ppm	0.0048 ppm	7.6817 ppm
Concentration per Run 3	0.0025 ppm	110.0774 ppm	0.4801 ppm	0.0043 ppm	0.3824 ppm	0.0048 ppm	7.6191 ppm
Concentration RSD	9.1 %	3.3 %	0.4 %	7.6 %	3.2 %	4.0 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0018 ppm	0.0265 ppm	0.1448 ppm	0.0674 ppm	87.0269 ppm	4.6284 ppm	0.0857 ppm
Concentration per Run 1	0.0018 ppm	0.0264 ppm	0.1446 ppm	0.0674 ppm	83.6093 ppm	4.4479 ppm	0.0830 ppm
Concentration per Run 2	0.0018 ppm	0.0266 ppm	0.1455 ppm	0.0679 ppm	89.1030 ppm	4.7172 ppm	0.0879 ppm
Concentration per Run 3	0.0018 ppm	0.0265 ppm	0.1442 ppm	0.0668 ppm	88.3683 ppm	4.7202 ppm	0.0862 ppm
Concentration RSD	1.3 %	0.3 %	0.5 %	0.8 %	3.4 %	3.4 %	2.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.7253 ppm	1.6147 ppm	0.0031 ppm	0.3873 ppm	0.0789 ppm	1.1658 ppm	0.0086 ppm
Concentration per Run 1	13.7203 ppm	1.5515 ppm	0.0034 ppm	0.3885 ppm	0.0788 ppm	1.1659 ppm	0.0085 ppm
Concentration per Run 2	13.7976 ppm	1.6516 ppm	0.0029 ppm	0.3842 ppm	0.0790 ppm	1.1658 ppm	0.0094 ppm
Concentration per Run 3	13.6579 ppm	1.6411 ppm	0.0031 ppm	0.3893 ppm	0.0789 ppm	1.1657 ppm	0.0080 ppm
Concentration RSD	0.5 %	3.4 %	8.0 %	0.7 %	0.1 %	0.0 %	8.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0068 ppm	8.8618 ppm	0.0157 ppm	0.0271 ppm	2.7218 ppm	0.0023 ppm	0.1638 ppm
Concentration per Run 1	0.0063 ppm	8.8336 ppm	0.0158 ppm	0.0260 ppm	2.7164 ppm	0.0023 ppm	0.1635 ppm
Concentration per Run 2	0.0052 ppm	8.8832 ppm	0.0155 ppm	0.0279 ppm	2.7370 ppm	0.0023 ppm	0.1648 ppm
Concentration per Run 3	0.0088 ppm	8.8686 ppm	0.0159 ppm	0.0274 ppm	2.7121 ppm	0.0024 ppm	0.1632 ppm
Concentration RSD	26.6 %	0.3 %	1.3 %	3.6 %	0.5 %	2.5 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3649 ppm	107.9637 %	106.2693 %	105.7408 %	111.1429 %	97.8795 %	103.5933 %
Concentration per Run 1	0.3656 ppm	112.0782 %	106.5721 %	105.7068 %	114.2287 %	97.8955 %	103.8794 %
Concentration per Run 2	0.3651 ppm	105.6418 %	105.9358 %	105.8542 %	109.4610 %	97.8231 %	103.0981 %
Concentration per Run 3	0.3640 ppm	106.1712 %	106.3001 %	105.6614 %	109.7388 %	97.9199 %	103.8025 %
Concentration RSD	0.2 %	3.3 %	0.3 %	0.1 %	2.4 %	0.1 %	0.4 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-14d2 WG1975352
Analysis started at: 9/26/2024 7:56:07 PM
Comments <Comment>
Rack: 1
Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0025 ppm	101.3386 ppm	0.2333 ppm	0.0029 ppm	0.1582 ppm	0.0041 ppm	4.7619 ppm
Concentration per Run 1	0.0023 ppm	91.8676 ppm	0.2326 ppm	0.0025 ppm	0.1434 ppm	0.0037 ppm	4.3187 ppm
Concentration per Run 2	0.0023 ppm	105.8353 ppm	0.2345 ppm	0.0029 ppm	0.1651 ppm	0.0044 ppm	4.9782 ppm
Concentration per Run 3	0.0028 ppm	106.3130 ppm	0.2329 ppm	0.0034 ppm	0.1660 ppm	0.0043 ppm	4.9888 ppm
Concentration RSD	12.9 %	8.1 %	0.4 %	16.6 %	8.1 %	8.4 %	8.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0018 ppm	0.0243 ppm	0.1294 ppm	0.0599 ppm	77.5489 ppm	3.9237 ppm	0.0690 ppm
Concentration per Run 1	0.0018 ppm	0.0243 ppm	0.1295 ppm	0.0598 ppm	70.1568 ppm	3.5535 ppm	0.0629 ppm
Concentration per Run 2	0.0018 ppm	0.0242 ppm	0.1293 ppm	0.0598 ppm	81.0160 ppm	4.1121 ppm	0.0719 ppm
Concentration per Run 3	0.0017 ppm	0.0244 ppm	0.1293 ppm	0.0600 ppm	81.4739 ppm	4.1054 ppm	0.0721 ppm
Concentration RSD	2.3 %	0.4 %	0.1 %	0.1 %	8.3 %	8.2 %	7.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.9374 ppm	1.5926 ppm	0.0028 ppm	0.3612 ppm	0.0673 ppm	0.6382 ppm	0.0084 ppm
Concentration per Run 1	10.9267 ppm	1.4418 ppm	0.0026 ppm	0.3247 ppm	0.0672 ppm	0.6407 ppm	0.0089 ppm
Concentration per Run 2	10.9375 ppm	1.6632 ppm	0.0031 ppm	0.3866 ppm	0.0674 ppm	0.6382 ppm	0.0090 ppm
Concentration per Run 3	10.9481 ppm	1.6729 ppm	0.0028 ppm	0.3722 ppm	0.0673 ppm	0.6358 ppm	0.0074 ppm
Concentration RSD	0.1 %	8.2 %	9.1 %	9.0 %	0.2 %	0.4 %	10.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0055 ppm	8.6952 ppm	0.0084 ppm	0.0223 ppm	2.2468 ppm	0.0014 ppm	0.1544 ppm
Concentration per Run 1	0.0071 ppm	8.6953 ppm	0.0089 ppm	0.0201 ppm	2.2480 ppm	0.0018 ppm	0.1547 ppm
Concentration per Run 2	0.0046 ppm	8.7017 ppm	0.0083 ppm	0.0233 ppm	2.2465 ppm	0.0027 ppm	0.1540 ppm
Concentration per Run 3	0.0048 ppm	8.6887 ppm	0.0080 ppm	0.0235 ppm	2.2458 ppm	-0.0002 ppm	0.1544 ppm
Concentration RSD	25.3 %	0.1 %	5.5 %	8.5 %	0.1 %	103.2 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3224 ppm	113.2039 %	106.3205 %	105.7472 %	116.9860 %	98.9229 %	104.5963 %
Concentration per Run 1	0.3227 ppm	122.5593 %	106.5010 %	105.7440 %	125.1504 %	98.8469 %	104.7255 %
Concentration per Run 2	0.3225 ppm	108.4560 %	106.6315 %	105.8714 %	112.7160 %	98.9381 %	104.8172 %
Concentration per Run 3	0.3221 ppm	108.5965 %	105.8288 %	105.6261 %	113.0917 %	98.9836 %	104.2461 %
Concentration RSD	0.1 %	7.2 %	0.4 %	0.1 %	6.0 %	0.1 %	0.3 %

LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/26/2024 8:02:14 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5294 ppm	0.5351 ppm	0.4970 ppm	0.5056 ppm	0.4922 ppm	0.4957 ppm	0.4861 ppm
Concentration per Run 1	0.5335 ppm	0.5357 ppm	0.4955 ppm	0.5046 ppm	0.4897 ppm	0.4923 ppm	0.4814 ppm
Concentration per Run 2	0.5298 ppm	0.5408 ppm	0.4973 ppm	0.5065 ppm	0.4938 ppm	0.4972 ppm	0.4880 ppm
Concentration per Run 3	0.5249 ppm	0.5289 ppm	0.4983 ppm	0.5056 ppm	0.4932 ppm	0.4975 ppm	0.4890 ppm
Recovery Percentage 1	105.881 %	107.026 %	99.403 %	101.114 %	98.448 %	99.131 %	97.223 %
Concentration RSD	0.8 %	1.1 %	0.3 %	0.2 %	0.4 %	0.6 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4977 ppm	0.5111 ppm	0.5141 ppm	0.5039 ppm	0.5466 ppm	5.1433 ppm	0.4981 ppm
Concentration per Run 1	0.4975 ppm	0.5105 ppm	0.5187 ppm	0.5083 ppm	0.5460 ppm	5.1203 ppm	0.4934 ppm
Concentration per Run 2	0.4980 ppm	0.5114 ppm	0.5144 ppm	0.5041 ppm	0.5526 ppm	5.1644 ppm	0.5017 ppm
Concentration per Run 3	0.4976 ppm	0.5113 ppm	0.5093 ppm	0.4994 ppm	0.5413 ppm	5.1450 ppm	0.4993 ppm
Recovery Percentage 1	99.539 %	102.218 %	102.823 %	100.788 %	109.322 %	102.865 %	99.625 %
Concentration RSD	0.1 %	0.1 %	0.9 %	0.9 %	1.0 %	0.4 %	0.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5113 ppm	0.4928 ppm	0.4977 ppm	10.5650 ppm	0.5085 ppm	0.5076 ppm	0.5122 ppm
Concentration per Run 1	0.5141 ppm	0.4904 ppm	0.4925 ppm	10.4768 ppm	0.5079 ppm	0.5075 ppm	0.5088 ppm
Concentration per Run 2	0.5128 ppm	0.4938 ppm	0.4989 ppm	10.5976 ppm	0.5090 ppm	0.5078 ppm	0.5147 ppm
Concentration per Run 3	0.5071 ppm	0.4942 ppm	0.5017 ppm	10.6206 ppm	0.5085 ppm	0.5075 ppm	0.5131 ppm
Recovery Percentage 1	102.262 %	98.559 %	99.543 %	105.650 %	101.690 %	101.520 %	102.433 %
Concentration RSD	0.7 %	0.4 %	1.0 %	0.7 %	0.1 %	0.0 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5110 ppm	5.6726 ppm	0.4732 ppm	0.4718 ppm	0.5166 ppm	0.5086 ppm	0.5001 ppm
Concentration per Run 1	0.5111 ppm	5.6641 ppm	0.4734 ppm	0.4682 ppm	0.5212 ppm	0.5092 ppm	0.5049 ppm
Concentration per Run 2	0.5101 ppm	5.6769 ppm	0.4736 ppm	0.4737 ppm	0.5160 ppm	0.5066 ppm	0.4990 ppm
Concentration per Run 3	0.5118 ppm	5.6769 ppm	0.4725 ppm	0.4735 ppm	0.5126 ppm	0.5100 ppm	0.4965 ppm
Recovery Percentage 1	102.197 %	108.050 %	94.634 %	94.356 %	103.321 %	101.718 %	100.024 %
Concentration RSD	0.2 %	0.1 %	0.1 %	0.7 %	0.8 %	0.3 %	0.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5043 ppm	100.7469 %	99.5987 %	99.3123 %	109.9064 %	101.3143 %	102.9527 %
Concentration per Run 1	0.5040 ppm	101.1887 %	98.7320 %	99.3887 %	110.6864 %	101.3111 %	101.8730 %
Concentration per Run 2	0.5049 ppm	100.6181 %	99.7973 %	99.2272 %	109.8646 %	101.2580 %	103.2829 %
Concentration per Run 3	0.5040 ppm	100.4339 %	100.2668 %	99.3210 %	109.1681 %	101.3739 %	103.7023 %
Recovery Percentage 1	100.863 %						
Concentration RSD	0.1 %	0.4 %	0.8 %	0.1 %	0.7 %	0.1 %	0.9 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/26/2024 8:08:16 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.0152 ppm	0.0000 ppm	0.0009 ppm	0.0004 ppm	0.0005 ppm	-0.0022 ppm
Concentration per Run 1	0.0006 ppm	0.0112 ppm	-0.0001 ppm	0.0015 ppm	0.0003 ppm	0.0005 ppm	-0.0068 ppm
Concentration per Run 2	0.0008 ppm	0.0066 ppm	0.0002 ppm	0.0006 ppm	0.0004 ppm	0.0004 ppm	-0.0033 ppm
Concentration per Run 3	0.0003 ppm	0.0278 ppm	-0.0002 ppm	0.0007 ppm	0.0006 ppm	0.0005 ppm	0.0034 ppm
Recovery Percentage 1	8.279 %	15.219 %	-0.863 %	3.166 %	4.389 %	9.570 %	-2.226 %
Concentration RSD	43.0 %	73.4 %	486.1 %	51.8 %	38.4 %	9.9 %	234.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0125 ppm	-0.1017 ppm	-0.0043 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0010 ppm	0.0095 ppm	-0.1200 ppm	-0.0050 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0129 ppm	-0.1389 ppm	-0.0044 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0003 ppm	0.0151 ppm	-0.0461 ppm	-0.0036 ppm
Recovery Percentage 1	-0.119 %	0.174 %	0.098 %	6.897 %	25.025 %	-4.067 %	-43.268 %
Concentration RSD	335.6 %	443.2 %	3,020.9 %	50.5 %	22.5 %	48.2 %	16.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0003 ppm	0.0006 ppm	0.0018 ppm	0.0100 ppm	0.0002 ppm	-0.0006 ppm	0.0010 ppm
Concentration per Run 1	0.0032 ppm	0.0004 ppm	0.0021 ppm	0.0108 ppm	0.0006 ppm	0.0001 ppm	0.0017 ppm
Concentration per Run 2	-0.0015 ppm	0.0007 ppm	0.0017 ppm	0.0100 ppm	0.0001 ppm	-0.0006 ppm	0.0017 ppm
Concentration per Run 3	-0.0025 ppm	0.0008 ppm	0.0017 ppm	0.0091 ppm	0.0000 ppm	-0.0012 ppm	-0.0004 ppm
Recovery Percentage 1	-0.285 %	6.426 %	3.694 %	0.499 %	0.954 %	-5.564 %	2.010 %
Concentration RSD	1,068.5 %	38.5 %	13.0 %	8.2 %	124.2 %	114.7 %	118.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0002 ppm	0.0173 ppm	0.0003 ppm	0.0005 ppm	0.0003 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 1	-0.0008 ppm	0.0168 ppm	0.0007 ppm	0.0005 ppm	0.0001 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 2	0.0011 ppm	0.0174 ppm	0.0002 ppm	0.0003 ppm	0.0002 ppm	-0.0011 ppm	0.0002 ppm
Concentration per Run 3	-0.0008 ppm	0.0178 ppm	-0.0001 ppm	0.0007 ppm	0.0006 ppm	0.0004 ppm	0.0000 ppm
Recovery Percentage 1	-1.574 %	3.465 %	0.566 %	4.948 %	2.940 %	-1.873 %	-0.489 %
Concentration RSD	689.8 %	2.7 %	147.1 %	36.2 %	88.6 %	196.9 %	485.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	104.8169 %	95.3672 %	99.6787 %	107.7071 %	99.7220 %	94.8227 %
Concentration per Run 1	0.0003 ppm	108.4869 %	91.8470 %	98.9702 %	109.5898 %	98.5791 %	91.2823 %
Concentration per Run 2	0.0003 ppm	103.6507 %	95.5348 %	99.5133 %	106.8780 %	99.6146 %	95.0292 %
Concentration per Run 3	0.0003 ppm	102.3130 %	98.7199 %	100.5524 %	106.6533 %	100.9723 %	98.1565 %
Recovery Percentage 1	5.801 %						
Concentration RSD	9.3 %	3.1 %	3.6 %	0.8 %	1.5 %	1.2 %	3.6 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-15d2 WG1975352
Analysis started at: 9/26/2024 8:20:10 PM
Comments <Comment>
Rack: 1
Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0027 ppm	104.2567 ppm	0.3435 ppm	0.0048 ppm	0.3973 ppm	0.0054 ppm	10.3127 ppm
Concentration per Run 1	0.0027 ppm	109.0554 ppm	0.3426 ppm	0.0049 ppm	0.4152 ppm	0.0056 ppm	10.7950 ppm
Concentration per Run 2	0.0028 ppm	102.1117 ppm	0.3433 ppm	0.0046 ppm	0.3895 ppm	0.0053 ppm	10.0901 ppm
Concentration per Run 3	0.0027 ppm	101.6030 ppm	0.3447 ppm	0.0048 ppm	0.3871 ppm	0.0053 ppm	10.0530 ppm
Concentration RSD	2.6 %	4.0 %	0.3 %	3.6 %	3.9 %	3.4 %	4.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0019 ppm	0.0321 ppm	0.1719 ppm	0.0884 ppm	96.0896 ppm	6.2784 ppm	0.1006 ppm
Concentration per Run 1	0.0019 ppm	0.0322 ppm	0.1716 ppm	0.0882 ppm	100.3804 ppm	6.5729 ppm	0.1063 ppm
Concentration per Run 2	0.0020 ppm	0.0320 ppm	0.1712 ppm	0.0882 ppm	94.1695 ppm	6.1233 ppm	0.0978 ppm
Concentration per Run 3	0.0019 ppm	0.0320 ppm	0.1729 ppm	0.0886 ppm	93.7188 ppm	6.1391 ppm	0.0978 ppm
Concentration RSD	1.3 %	0.4 %	0.5 %	0.3 %	3.9 %	4.1 %	4.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	16.9136 ppm	1.7376 ppm	0.0042 ppm	0.5681 ppm	0.0885 ppm	1.0860 ppm	0.0072 ppm
Concentration per Run 1	16.8992 ppm	1.8159 ppm	0.0042 ppm	0.5916 ppm	0.0882 ppm	1.0829 ppm	0.0057 ppm
Concentration per Run 2	16.8778 ppm	1.7023 ppm	0.0041 ppm	0.5625 ppm	0.0886 ppm	1.0874 ppm	0.0069 ppm
Concentration per Run 3	16.9639 ppm	1.6947 ppm	0.0042 ppm	0.5501 ppm	0.0886 ppm	1.0878 ppm	0.0090 ppm
Concentration RSD	0.3 %	3.9 %	1.7 %	3.8 %	0.3 %	0.2 %	23.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0055 ppm	8.4173 ppm	0.0093 ppm	0.0374 ppm	2.6170 ppm	0.0020 ppm	0.1822 ppm
Concentration per Run 1	0.0063 ppm	8.3713 ppm	0.0091 ppm	0.0390 ppm	2.6143 ppm	0.0030 ppm	0.1824 ppm
Concentration per Run 2	0.0034 ppm	8.4181 ppm	0.0092 ppm	0.0365 ppm	2.6140 ppm	0.0023 ppm	0.1824 ppm
Concentration per Run 3	0.0068 ppm	8.4627 ppm	0.0096 ppm	0.0365 ppm	2.6227 ppm	0.0008 ppm	0.1817 ppm
Concentration RSD	33.7 %	0.5 %	2.8 %	3.9 %	0.2 %	56.2 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4420 ppm	111.5972 %	112.2205 %	111.3426 %	109.9027 %	99.4525 %	105.6661 %
Concentration per Run 1	0.4415 ppm	107.3727 %	112.3058 %	111.4656 %	105.7136 %	99.6490 %	105.7583 %
Concentration per Run 2	0.4428 ppm	113.9195 %	112.1490 %	111.2437 %	111.6911 %	99.3226 %	105.7810 %
Concentration per Run 3	0.4418 ppm	113.4993 %	112.2066 %	111.3185 %	112.3035 %	99.3861 %	105.4592 %
Concentration RSD	0.2 %	3.3 %	0.1 %	0.1 %	3.3 %	0.2 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-16d2 WG1975352
Analysis started at: 9/26/2024 8:26:17 PM
Comments <Comment>
Rack: 1
Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0023 ppm	88.4117 ppm	0.4061 ppm	0.0041 ppm	0.2860 ppm	0.0040 ppm	8.1254 ppm
Concentration per Run 1	0.0024 ppm	89.1897 ppm	0.4092 ppm	0.0046 ppm	0.2890 ppm	0.0040 ppm	8.2074 ppm
Concentration per Run 2	0.0021 ppm	87.6693 ppm	0.4064 ppm	0.0046 ppm	0.2836 ppm	0.0039 ppm	8.0445 ppm
Concentration per Run 3	0.0024 ppm	88.3760 ppm	0.4028 ppm	0.0032 ppm	0.2853 ppm	0.0040 ppm	8.1243 ppm
Concentration RSD	9.1 %	0.9 %	0.8 %	19.9 %	1.0 %	0.9 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0016 ppm	0.0197 ppm	0.1311 ppm	0.0637 ppm	74.8933 ppm	3.1751 ppm	0.0608 ppm
Concentration per Run 1	0.0016 ppm	0.0200 ppm	0.1314 ppm	0.0639 ppm	75.4873 ppm	3.1854 ppm	0.0609 ppm
Concentration per Run 2	0.0017 ppm	0.0197 ppm	0.1313 ppm	0.0637 ppm	74.2529 ppm	3.1724 ppm	0.0613 ppm
Concentration per Run 3	0.0016 ppm	0.0194 ppm	0.1305 ppm	0.0636 ppm	74.9397 ppm	3.1675 ppm	0.0602 ppm
Concentration RSD	2.7 %	1.5 %	0.4 %	0.3 %	0.8 %	0.3 %	0.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.8169 ppm	1.8064 ppm	0.0038 ppm	0.3914 ppm	0.0574 ppm	1.2985 ppm	0.0079 ppm
Concentration per Run 1	9.8157 ppm	1.8230 ppm	0.0039 ppm	0.3927 ppm	0.0580 ppm	1.3072 ppm	0.0088 ppm
Concentration per Run 2	9.8358 ppm	1.7872 ppm	0.0036 ppm	0.3963 ppm	0.0573 ppm	1.3045 ppm	0.0066 ppm
Concentration per Run 3	9.7994 ppm	1.8089 ppm	0.0039 ppm	0.3850 ppm	0.0571 ppm	1.2838 ppm	0.0083 ppm
Concentration RSD	0.2 %	1.0 %	4.3 %	1.5 %	0.9 %	1.0 %	14.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0071 ppm	7.6759 ppm	0.0108 ppm	0.0272 ppm	1.7961 ppm	0.0006 ppm	0.1400 ppm
Concentration per Run 1	0.0078 ppm	7.7186 ppm	0.0106 ppm	0.0275 ppm	1.7976 ppm	-0.0001 ppm	0.1404 ppm
Concentration per Run 2	0.0070 ppm	7.6976 ppm	0.0111 ppm	0.0270 ppm	1.7982 ppm	0.0008 ppm	0.1399 ppm
Concentration per Run 3	0.0064 ppm	7.6115 ppm	0.0106 ppm	0.0271 ppm	1.7924 ppm	0.0011 ppm	0.1398 ppm
Concentration RSD	9.9 %	0.7 %	2.5 %	1.0 %	0.2 %	108.1 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3683 ppm	110.1601 %	108.0538 %	107.5828 %	111.2886 %	98.8098 %	104.1559 %
Concentration per Run 1	0.3709 ppm	109.5972 %	108.0369 %	107.5823 %	110.8449 %	98.8767 %	104.0916 %
Concentration per Run 2	0.3697 ppm	110.5511 %	107.9315 %	107.0800 %	111.1784 %	98.3151 %	103.8165 %
Concentration per Run 3	0.3642 ppm	110.3321 %	108.1929 %	108.0861 %	111.8426 %	99.2376 %	104.5597 %
Concentration RSD	1.0 %	0.5 %	0.1 %	0.5 %	0.5 %	0.5 %	0.4 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-17d2 WG1975352
Analysis started at: 9/26/2024 8:32:26 PM
Comments <Comment>
Rack: 1
Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0020 ppm	90.4147 ppm	0.4549 ppm	0.0029 ppm	0.1768 ppm	0.0041 ppm	5.8034 ppm
Concentration per Run 1	0.0025 ppm	89.5264 ppm	0.4566 ppm	0.0032 ppm	0.1751 ppm	0.0041 ppm	5.7433 ppm
Concentration per Run 2	0.0016 ppm	91.2881 ppm	0.4532 ppm	0.0026 ppm	0.1784 ppm	0.0041 ppm	5.8525 ppm
Concentration per Run 3	0.0019 ppm	90.4295 ppm	0.4548 ppm	0.0030 ppm	0.1768 ppm	0.0041 ppm	5.8143 ppm
Concentration RSD	22.8 %	1.0 %	0.4 %	9.9 %	0.9 %	0.3 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0017 ppm	0.0225 ppm	0.1239 ppm	0.0690 ppm	72.0398 ppm	3.1410 ppm	0.0660 ppm
Concentration per Run 1	0.0017 ppm	0.0224 ppm	0.1249 ppm	0.0686 ppm	71.1516 ppm	3.1075 ppm	0.0640 ppm
Concentration per Run 2	0.0017 ppm	0.0224 ppm	0.1230 ppm	0.0687 ppm	72.8280 ppm	3.2018 ppm	0.0660 ppm
Concentration per Run 3	0.0017 ppm	0.0227 ppm	0.1239 ppm	0.0696 ppm	72.1399 ppm	3.1136 ppm	0.0680 ppm
Concentration RSD	1.1 %	0.7 %	0.7 %	0.8 %	1.2 %	1.7 %	3.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.0327 ppm	1.6030 ppm	0.0030 ppm	0.3611 ppm	0.0646 ppm	1.1334 ppm	0.0066 ppm
Concentration per Run 1	10.0464 ppm	1.5852 ppm	0.0032 ppm	0.3560 ppm	0.0648 ppm	1.1344 ppm	0.0048 ppm
Concentration per Run 2	9.9993 ppm	1.6197 ppm	0.0029 ppm	0.3595 ppm	0.0644 ppm	1.1307 ppm	0.0065 ppm
Concentration per Run 3	10.0525 ppm	1.6042 ppm	0.0029 ppm	0.3679 ppm	0.0647 ppm	1.1350 ppm	0.0085 ppm
Concentration RSD	0.3 %	1.1 %	5.1 %	1.7 %	0.3 %	0.2 %	28.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0064 ppm	9.7973 ppm	0.0070 ppm	0.0201 ppm	2.0279 ppm	0.0007 ppm	0.1314 ppm
Concentration per Run 1	0.0067 ppm	9.7863 ppm	0.0069 ppm	0.0198 ppm	2.0285 ppm	0.0001 ppm	0.1314 ppm
Concentration per Run 2	0.0071 ppm	9.7832 ppm	0.0073 ppm	0.0204 ppm	2.0215 ppm	0.0018 ppm	0.1309 ppm
Concentration per Run 3	0.0055 ppm	9.8224 ppm	0.0070 ppm	0.0201 ppm	2.0337 ppm	0.0003 ppm	0.1318 ppm
Concentration RSD	12.9 %	0.2 %	3.3 %	1.6 %	0.3 %	133.3 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3817 ppm	107.6012 %	107.3029 %	106.7183 %	108.3243 %	97.9249 %	103.1983 %
Concentration per Run 1	0.3821 ppm	108.0280 %	107.0438 %	106.7800 %	108.5318 %	97.7691 %	102.8637 %
Concentration per Run 2	0.3811 ppm	106.7769 %	107.7905 %	106.8283 %	107.5594 %	98.2071 %	103.6789 %
Concentration per Run 3	0.3819 ppm	107.9988 %	107.0745 %	106.5467 %	108.8817 %	97.7984 %	103.0524 %
Concentration RSD	0.1 %	0.7 %	0.4 %	0.1 %	0.6 %	0.3 %	0.4 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-18d2 WG1975352
Analysis started at: 9/26/2024 8:38:35 PM
Comments <Comment>
Rack: 1
Vial: 44

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0025 ppm	113.7953 ppm	0.2528 ppm	0.0042 ppm	0.2362 ppm	0.0056 ppm	6.8056 ppm
Concentration per Run 1	0.0024 ppm	113.6755 ppm	0.2515 ppm	0.0045 ppm	0.2363 ppm	0.0056 ppm	6.8007 ppm
Concentration per Run 2	0.0026 ppm	114.9773 ppm	0.2545 ppm	0.0036 ppm	0.2388 ppm	0.0056 ppm	6.8697 ppm
Concentration per Run 3	0.0024 ppm	112.7332 ppm	0.2524 ppm	0.0045 ppm	0.2336 ppm	0.0055 ppm	6.7463 ppm
Concentration RSD	3.9 %	1.0 %	0.6 %	12.8 %	1.1 %	1.2 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0016 ppm	0.0396 ppm	0.1993 ppm	0.0746 ppm	92.7840 ppm	7.8307 ppm	0.1051 ppm
Concentration per Run 1	0.0017 ppm	0.0399 ppm	0.1978 ppm	0.0741 ppm	92.5537 ppm	7.8331 ppm	0.1044 ppm
Concentration per Run 2	0.0016 ppm	0.0396 ppm	0.2000 ppm	0.0749 ppm	93.7801 ppm	7.9129 ppm	0.1062 ppm
Concentration per Run 3	0.0016 ppm	0.0392 ppm	0.2001 ppm	0.0747 ppm	92.0182 ppm	7.7463 ppm	0.1045 ppm
Concentration RSD	2.4 %	0.9 %	0.6 %	0.5 %	1.0 %	1.1 %	1.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	18.4296 ppm	1.7101 ppm	0.0028 ppm	0.5046 ppm	0.1053 ppm	0.6700 ppm	0.0065 ppm
Concentration per Run 1	18.3143 ppm	1.7092 ppm	0.0027 ppm	0.5094 ppm	0.1057 ppm	0.6715 ppm	0.0066 ppm
Concentration per Run 2	18.4962 ppm	1.7295 ppm	0.0026 ppm	0.5029 ppm	0.1058 ppm	0.6713 ppm	0.0065 ppm
Concentration per Run 3	18.4781 ppm	1.6915 ppm	0.0031 ppm	0.5016 ppm	0.1045 ppm	0.6672 ppm	0.0064 ppm
Concentration RSD	0.5 %	1.1 %	9.1 %	0.8 %	0.7 %	0.4 %	1.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0034 ppm	8.4496 ppm	0.0076 ppm	0.0281 ppm	3.9678 ppm	0.0027 ppm	0.1749 ppm
Concentration per Run 1	0.0019 ppm	8.4831 ppm	0.0071 ppm	0.0280 ppm	3.9493 ppm	0.0026 ppm	0.1741 ppm
Concentration per Run 2	0.0049 ppm	8.4528 ppm	0.0079 ppm	0.0283 ppm	3.9806 ppm	0.0029 ppm	0.1750 ppm
Concentration per Run 3	0.0034 ppm	8.4130 ppm	0.0077 ppm	0.0278 ppm	3.9736 ppm	0.0028 ppm	0.1757 ppm
Concentration RSD	45.2 %	0.4 %	6.0 %	0.8 %	0.4 %	5.9 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3092 ppm	107.8016 %	108.7365 %	108.2250 %	108.2725 %	99.0618 %	104.9475 %
Concentration per Run 1	0.3103 ppm	107.7015 %	109.5866 %	108.3420 %	107.3028 %	99.3003 %	105.7751 %
Concentration per Run 2	0.3093 ppm	107.0267 %	108.2640 %	108.1016 %	107.1981 %	98.9655 %	104.5007 %
Concentration per Run 3	0.3079 ppm	108.6765 %	108.3589 %	108.2314 %	110.3165 %	98.9198 %	104.5668 %
Concentration RSD	0.4 %	0.8 %	0.7 %	0.1 %	1.6 %	0.2 %	0.7 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-19d2 WG1975352
Analysis started at: 9/26/2024 8:45:02 PM
Comments <Comment>
Rack: 1
Vial: 45

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0030 ppm	105.4890 ppm	0.6274 ppm	0.0049 ppm	0.2019 ppm	0.0052 ppm	14.1851 ppm
Concentration per Run 1	0.0029 ppm	103.8129 ppm	0.6260 ppm	0.0046 ppm	0.1987 ppm	0.0051 ppm	13.9546 ppm
Concentration per Run 2	0.0031 ppm	106.4337 ppm	0.6270 ppm	0.0045 ppm	0.2039 ppm	0.0052 ppm	14.2962 ppm
Concentration per Run 3	0.0030 ppm	106.2204 ppm	0.6292 ppm	0.0055 ppm	0.2031 ppm	0.0052 ppm	14.3046 ppm
Concentration RSD	3.5 %	1.4 %	0.3 %	11.2 %	1.4 %	1.6 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0020 ppm	0.0311 ppm	0.2914 ppm	0.1246 ppm	90.6242 ppm	5.0724 ppm	0.0845 ppm
Concentration per Run 1	0.0020 ppm	0.0313 ppm	0.2923 ppm	0.1250 ppm	89.1196 ppm	4.9907 ppm	0.0834 ppm
Concentration per Run 2	0.0019 ppm	0.0311 ppm	0.2945 ppm	0.1260 ppm	91.4491 ppm	5.1303 ppm	0.0833 ppm
Concentration per Run 3	0.0020 ppm	0.0310 ppm	0.2875 ppm	0.1229 ppm	91.3040 ppm	5.0963 ppm	0.0866 ppm
Concentration RSD	3.4 %	0.4 %	1.2 %	1.3 %	1.4 %	1.4 %	2.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.7821 ppm	1.9053 ppm	0.0034 ppm	0.5600 ppm	0.0789 ppm	0.7665 ppm	0.0079 ppm
Concentration per Run 1	13.8116 ppm	1.8759 ppm	0.0034 ppm	0.5551 ppm	0.0788 ppm	0.7672 ppm	0.0079 ppm
Concentration per Run 2	13.9245 ppm	1.9236 ppm	0.0035 ppm	0.5687 ppm	0.0792 ppm	0.7645 ppm	0.0092 ppm
Concentration per Run 3	13.6101 ppm	1.9165 ppm	0.0033 ppm	0.5562 ppm	0.0787 ppm	0.7677 ppm	0.0067 ppm
Concentration RSD	1.2 %	1.4 %	2.9 %	1.3 %	0.3 %	0.2 %	15.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0064 ppm	8.9840 ppm	0.0097 ppm	0.0436 ppm	2.6659 ppm	0.0030 ppm	0.1809 ppm
Concentration per Run 1	0.0023 ppm	8.9654 ppm	0.0098 ppm	0.0428 ppm	2.6720 ppm	0.0018 ppm	0.1813 ppm
Concentration per Run 2	0.0085 ppm	8.9755 ppm	0.0098 ppm	0.0442 ppm	2.6928 ppm	0.0036 ppm	0.1823 ppm
Concentration per Run 3	0.0083 ppm	9.0110 ppm	0.0096 ppm	0.0437 ppm	2.6329 ppm	0.0038 ppm	0.1792 ppm
Concentration RSD	55.5 %	0.3 %	1.1 %	1.7 %	1.1 %	36.6 %	0.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.0067 ppm	110.7428 %	109.5981 %	109.1275 %	109.3504 %	97.0954 %	102.9003 %
Concentration per Run 1	1.0070 ppm	111.8236 %	109.5098 %	109.0298 %	109.9466 %	97.0722 %	102.8126 %
Concentration per Run 2	1.0052 ppm	111.0459 %	108.3189 %	109.2753 %	109.6267 %	97.2388 %	101.9071 %
Concentration per Run 3	1.0079 ppm	109.3588 %	110.9656 %	109.0774 %	108.4780 %	96.9752 %	103.9812 %
Concentration RSD	0.1 %	1.1 %	1.2 %	0.1 %	0.7 %	0.1 %	1.0 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2453935-20d2 WG1975352
Analysis started at: 9/26/2024 8:51:29 PM
Comments <Comment>
Rack: 1
Vial: 46

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0021 ppm	97.7899 ppm	0.4089 ppm	0.0039 ppm	0.1512 ppm	0.0038 ppm	13.8229 ppm
Concentration per Run 1	0.0023 ppm	101.6774 ppm	0.3921 ppm	0.0037 ppm	0.1574 ppm	0.0039 ppm	14.3754 ppm
Concentration per Run 2	0.0022 ppm	96.0622 ppm	0.4184 ppm	0.0041 ppm	0.1484 ppm	0.0037 ppm	13.5620 ppm
Concentration per Run 3	0.0018 ppm	95.6302 ppm	0.4163 ppm	0.0038 ppm	0.1479 ppm	0.0037 ppm	13.5314 ppm
Concentration RSD	13.9 %	3.4 %	3.6 %	5.7 %	3.5 %	3.0 %	3.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0014 ppm	0.0214 ppm	0.1544 ppm	0.0723 ppm	85.6152 ppm	4.6372 ppm	0.0782 ppm
Concentration per Run 1	0.0014 ppm	0.0206 ppm	0.1545 ppm	0.0725 ppm	88.9301 ppm	4.8188 ppm	0.0823 ppm
Concentration per Run 2	0.0015 ppm	0.0218 ppm	0.1543 ppm	0.0722 ppm	84.1129 ppm	4.5428 ppm	0.0735 ppm
Concentration per Run 3	0.0015 ppm	0.0219 ppm	0.1544 ppm	0.0723 ppm	83.8026 ppm	4.5500 ppm	0.0787 ppm
Concentration RSD	3.4 %	3.4 %	0.1 %	0.2 %	3.4 %	3.4 %	5.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	16.4876 ppm	1.5800 ppm	0.0032 ppm	0.4520 ppm	0.0593 ppm	1.4909 ppm	0.0072 ppm
Concentration per Run 1	16.4909 ppm	1.6414 ppm	0.0032 ppm	0.4667 ppm	0.0574 ppm	1.4394 ppm	0.0058 ppm
Concentration per Run 2	16.5155 ppm	1.5538 ppm	0.0033 ppm	0.4529 ppm	0.0600 ppm	1.5107 ppm	0.0075 ppm
Concentration per Run 3	16.4564 ppm	1.5447 ppm	0.0033 ppm	0.4364 ppm	0.0606 ppm	1.5228 ppm	0.0083 ppm
Concentration RSD	0.2 %	3.4 %	1.6 %	3.4 %	2.9 %	3.0 %	17.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0027 ppm	7.7130 ppm	0.0086 ppm	0.0314 ppm	2.1406 ppm	-0.0001 ppm	0.1642 ppm
Concentration per Run 1	0.0018 ppm	7.4206 ppm	0.0079 ppm	0.0324 ppm	2.1410 ppm	-0.0007 ppm	0.1645 ppm
Concentration per Run 2	0.0034 ppm	7.8203 ppm	0.0088 ppm	0.0308 ppm	2.1425 ppm	0.0001 ppm	0.1643 ppm
Concentration per Run 3	0.0028 ppm	7.8980 ppm	0.0091 ppm	0.0309 ppm	2.1385 ppm	0.0003 ppm	0.1638 ppm
Concentration RSD	30.4 %	3.3 %	7.5 %	3.0 %	0.1 %	679.8 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.6113 ppm	104.8230 %	104.4285 %	107.0243 %	108.5730 %	101.2163 %	103.2327 %
Concentration per Run 1	0.5886 ppm	101.1618 %	104.7915 %	110.0411 %	105.2394 %	104.5552 %	103.4484 %
Concentration per Run 2	0.6210 ppm	106.2902 %	103.7861 %	105.6295 %	109.2944 %	99.8604 %	102.6452 %
Concentration per Run 3	0.6242 ppm	107.0169 %	104.7078 %	105.4022 %	111.1852 %	99.2334 %	103.6046 %
Concentration RSD	3.2 %	3.0 %	0.5 %	2.4 %	2.8 %	2.9 %	0.5 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/26/2024 8:57:38 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5359 ppm	0.6331 ppm	0.5079 ppm	0.5146 ppm	0.5098 ppm	0.5131 ppm	0.5192 ppm
Concentration per Run 1	0.5361 ppm	0.7003 ppm	0.5070 ppm	0.5137 ppm	0.5052 ppm	0.5079 ppm	0.5223 ppm
Concentration per Run 2	0.5363 ppm	0.6074 ppm	0.5086 ppm	0.5142 ppm	0.5139 ppm	0.5174 ppm	0.5192 ppm
Concentration per Run 3	0.5353 ppm	0.5916 ppm	0.5081 ppm	0.5160 ppm	0.5102 ppm	0.5141 ppm	0.5162 ppm
Recovery Percentage 1	107.177 %	126.621 %	101.581 %	102.925 %	101.952 %	102.625 %	103.847 %
Concentration RSD	0.1 %	9.3 %	0.2 %	0.2 %	0.9 %	0.9 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5081 ppm	0.5214 ppm	0.5220 ppm	0.5126 ppm	0.6408 ppm	5.3609 ppm	0.5154 ppm
Concentration per Run 1	0.5081 ppm	0.5217 ppm	0.5213 ppm	0.5130 ppm	0.6862 ppm	5.2806 ppm	0.5115 ppm
Concentration per Run 2	0.5076 ppm	0.5207 ppm	0.5231 ppm	0.5132 ppm	0.6253 ppm	5.4582 ppm	0.5190 ppm
Concentration per Run 3	0.5086 ppm	0.5218 ppm	0.5216 ppm	0.5117 ppm	0.6111 ppm	5.3439 ppm	0.5157 ppm
Recovery Percentage 1	101.622 %	104.280 %	104.398 %	102.529 %	128.167 %	107.218 %	103.085 %
Concentration RSD	0.1 %	0.1 %	0.2 %	0.2 %	6.2 %	1.7 %	0.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5232 ppm	0.5088 ppm	0.5073 ppm	10.9900 ppm	0.5197 ppm	0.5186 ppm	0.5227 ppm
Concentration per Run 1	0.5217 ppm	0.5038 ppm	0.5027 ppm	10.9274 ppm	0.5199 ppm	0.5185 ppm	0.5212 ppm
Concentration per Run 2	0.5253 ppm	0.5128 ppm	0.5079 ppm	11.0608 ppm	0.5188 ppm	0.5183 ppm	0.5220 ppm
Concentration per Run 3	0.5226 ppm	0.5097 ppm	0.5113 ppm	10.9819 ppm	0.5204 ppm	0.5191 ppm	0.5250 ppm
Recovery Percentage 1	104.638 %	101.755 %	101.455 %	109.900 %	103.940 %	103.727 %	104.548 %
Concentration RSD	0.4 %	0.9 %	0.9 %	0.6 %	0.2 %	0.1 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5185 ppm	5.7729 ppm	0.4837 ppm	0.4873 ppm	0.5246 ppm	0.5206 ppm	0.5081 ppm
Concentration per Run 1	0.5203 ppm	5.7733 ppm	0.4837 ppm	0.4815 ppm	0.5243 ppm	0.5204 ppm	0.5091 ppm
Concentration per Run 2	0.5167 ppm	5.7682 ppm	0.4839 ppm	0.4917 ppm	0.5241 ppm	0.5187 ppm	0.5082 ppm
Concentration per Run 3	0.5185 ppm	5.7772 ppm	0.4835 ppm	0.4887 ppm	0.5252 ppm	0.5225 ppm	0.5069 ppm
Recovery Percentage 1	103.702 %	109.960 %	96.737 %	97.464 %	104.912 %	104.114 %	101.614 %
Concentration RSD	0.4 %	0.1 %	0.0 %	1.1 %	0.1 %	0.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5154 ppm	96.7748 %	97.6476 %	96.9922 %	104.7090 %	98.6480 %	100.8643 %
Concentration per Run 1	0.5157 ppm	97.0605 %	97.8135 %	96.8362 %	104.6442 %	98.5822 %	101.0268 %
Concentration per Run 2	0.5149 ppm	96.0340 %	97.4115 %	97.1840 %	104.1685 %	98.8459 %	100.5128 %
Concentration per Run 3	0.5156 ppm	97.2299 %	97.7177 %	96.9564 %	105.3145 %	98.5160 %	101.0534 %
Recovery Percentage 1	103.083 %						
Concentration RSD	0.1 %	0.7 %	0.2 %	0.2 %	0.5 %	0.2 %	0.3 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/26/2024 9:03:40 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.0037 ppm	-0.0012 ppm	0.0009 ppm	0.0003 ppm	0.0004 ppm	-0.0002 ppm
Concentration per Run 1	0.0003 ppm	0.0040 ppm	-0.0006 ppm	0.0009 ppm	0.0004 ppm	0.0005 ppm	-0.0037 ppm
Concentration per Run 2	0.0007 ppm	0.0049 ppm	-0.0008 ppm	0.0011 ppm	0.0002 ppm	0.0003 ppm	0.0016 ppm
Concentration per Run 3	0.0007 ppm	0.0022 ppm	-0.0023 ppm	0.0008 ppm	0.0002 ppm	0.0003 ppm	0.0014 ppm
Recovery Percentage 1	7.907 %	3.679 %	-24.657 %	3.113 %	2.776 %	7.584 %	-0.236 %
Concentration RSD	46.2 %	36.8 %	73.0 %	15.7 %	50.6 %	38.7 %	1,262.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0105 ppm	-0.0883 ppm	-0.0030 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0133 ppm	-0.0661 ppm	-0.0041 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0105 ppm	-0.0992 ppm	-0.0025 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0006 ppm	0.0076 ppm	-0.0996 ppm	-0.0023 ppm
Recovery Percentage 1	-0.153 %	-0.159 %	2.794 %	3.381 %	20.910 %	-3.532 %	-29.955 %
Concentration RSD	403.7 %	120.4 %	70.8 %	79.2 %	27.1 %	21.8 %	32.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0009 ppm	0.0003 ppm	0.0018 ppm	0.0040 ppm	0.0001 ppm	-0.0004 ppm	0.0024 ppm
Concentration per Run 1	0.0011 ppm	0.0006 ppm	0.0021 ppm	0.0025 ppm	0.0005 ppm	-0.0003 ppm	0.0022 ppm
Concentration per Run 2	0.0011 ppm	0.0002 ppm	0.0018 ppm	-0.0015 ppm	-0.0002 ppm	-0.0004 ppm	0.0022 ppm
Concentration per Run 3	0.0006 ppm	0.0001 ppm	0.0016 ppm	0.0111 ppm	0.0002 ppm	-0.0005 ppm	0.0027 ppm
Recovery Percentage 1	0.913 %	2.907 %	3.693 %	0.202 %	0.560 %	-4.158 %	4.741 %
Concentration RSD	33.5 %	99.7 %	13.9 %	160.1 %	237.6 %	20.3 %	13.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0002 ppm	0.0147 ppm	0.0005 ppm	0.0002 ppm	0.0006 ppm	-0.0009 ppm	0.0004 ppm
Concentration per Run 1	0.0007 ppm	0.0160 ppm	0.0004 ppm	0.0004 ppm	0.0006 ppm	-0.0013 ppm	0.0006 ppm
Concentration per Run 2	-0.0007 ppm	0.0135 ppm	0.0007 ppm	0.0000 ppm	0.0006 ppm	-0.0022 ppm	0.0004 ppm
Concentration per Run 3	-0.0007 ppm	0.0144 ppm	0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0008 ppm	0.0001 ppm
Recovery Percentage 1	-2.438 %	2.933 %	0.993 %	1.516 %	5.724 %	-4.511 %	3.880 %
Concentration RSD	327.4 %	8.5 %	41.5 %	140.6 %	9.5 %	174.5 %	66.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	98.5819 %	99.6628 %	98.2920 %	99.8984 %	98.5807 %	99.7101 %
Concentration per Run 1	0.0003 ppm	99.6112 %	99.6191 %	98.6273 %	99.2152 %	98.6692 %	99.5004 %
Concentration per Run 2	0.0003 ppm	97.9330 %	99.4818 %	98.0206 %	99.7326 %	98.5689 %	99.5130 %
Concentration per Run 3	0.0003 ppm	98.2016 %	99.8875 %	98.2282 %	100.7473 %	98.5039 %	100.1170 %
Recovery Percentage 1	5.682 %						
Concentration RSD	5.1 %	0.9 %	0.2 %	0.3 %	0.8 %	0.1 %	0.4 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/26/2024 9:15:24 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5157 ppm	0.5037 ppm	0.4933 ppm	0.5009 ppm	0.4987 ppm	0.5035 ppm	0.4876 ppm
Concentration per Run 1	0.5143 ppm	0.5125 ppm	0.4925 ppm	0.4979 ppm	0.5021 ppm	0.5067 ppm	0.4934 ppm
Concentration per Run 2	0.5161 ppm	0.5028 ppm	0.4920 ppm	0.5029 ppm	0.4970 ppm	0.5014 ppm	0.4866 ppm
Concentration per Run 3	0.5167 ppm	0.4959 ppm	0.4953 ppm	0.5019 ppm	0.4971 ppm	0.5025 ppm	0.4827 ppm
Recovery Percentage 1	103.140 %	100.743 %	98.656 %	100.179 %	99.750 %	100.701 %	97.513 %
Concentration RSD	0.2 %	1.7 %	0.4 %	0.5 %	0.6 %	0.6 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4937 ppm	0.5059 ppm	0.5001 ppm	0.4909 ppm	0.5026 ppm	5.2570 ppm	0.5044 ppm
Concentration per Run 1	0.4910 ppm	0.5030 ppm	0.4986 ppm	0.4893 ppm	0.5072 ppm	5.2882 ppm	0.5097 ppm
Concentration per Run 2	0.4952 ppm	0.5073 ppm	0.5002 ppm	0.4905 ppm	0.5009 ppm	5.2540 ppm	0.5026 ppm
Concentration per Run 3	0.4951 ppm	0.5076 ppm	0.5014 ppm	0.4930 ppm	0.4997 ppm	5.2289 ppm	0.5010 ppm
Recovery Percentage 1	98.749 %	101.189 %	100.014 %	98.182 %	100.520 %	105.140 %	100.889 %
Concentration RSD	0.5 %	0.5 %	0.3 %	0.4 %	0.8 %	0.6 %	0.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4994 ppm	0.4963 ppm	0.4920 ppm	8.8335 ppm	0.5061 ppm	0.5054 ppm	0.5068 ppm
Concentration per Run 1	0.4987 ppm	0.4997 ppm	0.4848 ppm	8.3295 ppm	0.5027 ppm	0.5031 ppm	0.5023 ppm
Concentration per Run 2	0.4973 ppm	0.4948 ppm	0.4943 ppm	8.8827 ppm	0.5078 ppm	0.5085 ppm	0.5090 ppm
Concentration per Run 3	0.5020 ppm	0.4943 ppm	0.4968 ppm	9.2882 ppm	0.5077 ppm	0.5047 ppm	0.5092 ppm
Recovery Percentage 1	99.872 %	99.258 %	98.392 %	88.335 %	101.212 %	101.088 %	101.369 %
Concentration RSD	0.5 %	0.6 %	1.3 %	5.4 %	0.6 %	0.5 %	0.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5056 ppm	5.6108 ppm	0.4699 ppm	0.4758 ppm	0.5023 ppm	0.5053 ppm	0.4869 ppm
Concentration per Run 1	0.5013 ppm	5.5707 ppm	0.4677 ppm	0.4797 ppm	0.5014 ppm	0.5019 ppm	0.4860 ppm
Concentration per Run 2	0.5067 ppm	5.6305 ppm	0.4718 ppm	0.4746 ppm	0.5024 ppm	0.5084 ppm	0.4864 ppm
Concentration per Run 3	0.5089 ppm	5.6310 ppm	0.4702 ppm	0.4731 ppm	0.5031 ppm	0.5056 ppm	0.4882 ppm
Recovery Percentage 1	101.123 %	106.872 %	93.978 %	95.161 %	100.465 %	101.061 %	97.372 %
Concentration RSD	0.8 %	0.6 %	0.4 %	0.7 %	0.2 %	0.7 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5015 ppm	97.7752 %	98.6890 %	98.2817 %	129.2109 %	101.1188 %	104.6662 %
Concentration per Run 1	0.4986 ppm	96.8111 %	98.7363 %	98.2505 %	136.8554 %	101.6466 %	105.0842 %
Concentration per Run 2	0.5033 ppm	98.5144 %	98.6065 %	98.3023 %	128.5504 %	100.7942 %	104.3848 %
Concentration per Run 3	0.5025 ppm	98.0000 %	98.7243 %	98.2923 %	122.2271 %	100.9156 %	104.5296 %
Recovery Percentage 1	100.290 %						
Concentration RSD	0.5 %	0.9 %	0.1 %	0.0 %	5.7 %	0.5 %	0.4 %

LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/26/2024 9:39:38 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0043 ppm	-0.0011 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0051 ppm
Concentration per Run 1	0.0000 ppm	-0.0013 ppm	-0.0016 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	-0.0080 ppm
Concentration per Run 2	0.0006 ppm	0.0057 ppm	-0.0002 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 3	0.0002 ppm	0.0084 ppm	-0.0016 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	-0.0057 ppm
Recovery Percentage 1	3.813 %	4.296 %	-22.436 %	0.220 %	-0.728 %	0.390 %	-5.079 %
Concentration RSD	129.7 %	117.1 %	74.8 %	799.6 %	148.6 %	85.3 %	65.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0013 ppm	-0.0870 ppm	-0.0028 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	-0.1138 ppm	-0.0036 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0018 ppm	-0.0612 ppm	-0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0005 ppm	0.0016 ppm	-0.0859 ppm	-0.0036 ppm
Recovery Percentage 1	-0.532 %	0.499 %	1.463 %	-1.607 %	2.557 %	-3.478 %	-27.990 %
Concentration RSD	162.9 %	5.5 %	167.0 %	160.0 %	52.4 %	30.2 %	49.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0005 ppm	0.0001 ppm	0.0004 ppm	-0.0072 ppm	0.0003 ppm	-0.0007 ppm	0.0014 ppm
Concentration per Run 1	-0.0021 ppm	0.0002 ppm	0.0005 ppm	-0.0133 ppm	0.0002 ppm	-0.0009 ppm	0.0016 ppm
Concentration per Run 2	0.0013 ppm	0.0000 ppm	0.0005 ppm	-0.0087 ppm	0.0004 ppm	-0.0009 ppm	0.0008 ppm
Concentration per Run 3	-0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0003 ppm	-0.0003 ppm	0.0018 ppm
Recovery Percentage 1	-0.477 %	0.999 %	0.763 %	-0.359 %	1.198 %	-6.844 %	2.797 %
Concentration RSD	352.1 %	113.4 %	54.6 %	98.2 %	18.4 %	50.1 %	39.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0011 ppm	0.0054 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm	-0.0009 ppm	0.0004 ppm
Concentration per Run 1	0.0004 ppm	0.0043 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	-0.0014 ppm	0.0005 ppm
Concentration per Run 2	-0.0017 ppm	0.0055 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 3	-0.0020 ppm	0.0065 ppm	0.0005 ppm	-0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0007 ppm
Recovery Percentage 1	-10.756 %	1.084 %	0.746 %	-0.449 %	2.356 %	-4.301 %	4.284 %
Concentration RSD	122.4 %	20.0 %	50.3 %	199.2 %	36.1 %	62.3 %	77.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	99.2903 %	100.4521 %	99.3247 %	100.6439 %	99.4961 %	100.5532 %
Concentration per Run 1	0.0004 ppm	98.5300 %	100.6081 %	99.3776 %	98.7625 %	99.2056 %	100.5913 %
Concentration per Run 2	0.0004 ppm	100.2759 %	100.6226 %	99.4838 %	101.4671 %	99.6941 %	100.6914 %
Concentration per Run 3	0.0003 ppm	99.0651 %	100.1255 %	99.1128 %	101.7021 %	99.5886 %	100.3769 %
Recovery Percentage 1	6.662 %						
Concentration RSD	19.1 %	0.9 %	0.3 %	0.2 %	1.6 %	0.3 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: LLOQ RL
Analysis started at: 9/26/2024 9:45:57 PM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0057 ppm	0.1074 ppm	0.0048 ppm	0.0312 ppm	0.0103 ppm	0.0051 ppm	0.1043 ppm
Concentration per Run 1	0.0053 ppm	0.1041 ppm	0.0043 ppm	0.0312 ppm	0.0103 ppm	0.0051 ppm	0.0986 ppm
Concentration per Run 2	0.0061 ppm	0.1165 ppm	0.0049 ppm	0.0309 ppm	0.0103 ppm	0.0051 ppm	0.1110 ppm
Concentration per Run 3	0.0057 ppm	0.1017 ppm	0.0052 ppm	0.0315 ppm	0.0105 ppm	0.0052 ppm	0.1033 ppm
Recovery Percentage 1	114.626 %	107.446 %	96.388 %	104.034 %	103.475 %	102.914 %	104.274 %
Concentration RSD	6.7 %	7.4 %	8.9 %	1.0 %	1.0 %	0.2 %	6.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0042 ppm	0.0210 ppm	0.0103 ppm	0.0106 ppm	0.0545 ppm	2.6819 ppm	0.0085 ppm
Concentration per Run 1	0.0042 ppm	0.0214 ppm	0.0104 ppm	0.0105 ppm	0.0561 ppm	2.6290 ppm	0.0081 ppm
Concentration per Run 2	0.0042 ppm	0.0208 ppm	0.0104 ppm	0.0106 ppm	0.0548 ppm	2.7348 ppm	0.0077 ppm
Concentration per Run 3	0.0042 ppm	0.0208 ppm	0.0100 ppm	0.0106 ppm	0.0525 ppm	2.6819 ppm	0.0095 ppm
Recovery Percentage 1	104.212 %	104.950 %	102.555 %	105.661 %	108.940 %	107.277 %	84.729 %
Concentration RSD	0.3 %	1.6 %	1.9 %	0.6 %	3.4 %	2.0 %	11.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1072 ppm	0.0104 ppm	0.0529 ppm	2.2917 ppm	0.0209 ppm	0.0094 ppm	0.0534 ppm
Concentration per Run 1	0.1070 ppm	0.0104 ppm	0.0526 ppm	2.3213 ppm	0.0209 ppm	0.0091 ppm	0.0535 ppm
Concentration per Run 2	0.1085 ppm	0.0106 ppm	0.0529 ppm	2.2913 ppm	0.0210 ppm	0.0095 ppm	0.0530 ppm
Concentration per Run 3	0.1061 ppm	0.0102 ppm	0.0532 ppm	2.2626 ppm	0.0209 ppm	0.0096 ppm	0.0537 ppm
Recovery Percentage 1	107.186 %	103.929 %	105.779 %	114.585 %	104.700 %	93.902 %	106.773 %
Concentration RSD	1.2 %	1.8 %	0.6 %	1.3 %	0.5 %	2.3 %	0.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0107 ppm	0.5584 ppm	0.0502 ppm	0.0100 ppm	0.0526 ppm	0.0184 ppm	0.0105 ppm
Concentration per Run 1	0.0120 ppm	0.5597 ppm	0.0501 ppm	0.0101 ppm	0.0527 ppm	0.0178 ppm	0.0105 ppm
Concentration per Run 2	0.0092 ppm	0.5590 ppm	0.0502 ppm	0.0101 ppm	0.0521 ppm	0.0197 ppm	0.0107 ppm
Concentration per Run 3	0.0110 ppm	0.5566 ppm	0.0502 ppm	0.0098 ppm	0.0529 ppm	0.0177 ppm	0.0104 ppm
Recovery Percentage 1	107.408 %	111.686 %	100.387 %	100.122 %	105.140 %	92.170 %	105.411 %
Concentration RSD	13.4 %	0.3 %	0.2 %	1.7 %	0.8 %	6.2 %	1.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	**0.0061 ppm**	96.3921 %	99.9163 %	98.5634 %	101.9248 %	100.1450 %	103.2869 %
Concentration per Run 1	0.0060 ppm	96.6617 %	99.7069 %	98.6328 %	101.0505 %	99.9674 %	102.9142 %
Concentration per Run 2	0.0061 ppm	95.4797 %	100.5562 %	98.4032 %	101.3168 %	99.9639 %	103.8136 %
Concentration per Run 3	0.0061 ppm	97.0348 %	99.4857 %	98.6544 %	103.4070 %	100.5037 %	103.1328 %
Recovery Percentage 1	121.420 %						
Concentration RSD	**0.8 %**	0.8 %	0.6 %	0.1 %	1.3 %	0.3 %	0.5 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/27/2024 9:09:28 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5178 ppm	0.5170 ppm	0.4980 ppm	0.5049 ppm	0.5164 ppm	0.5088 ppm	0.5079 ppm
Concentration per Run 1	0.5180 ppm	0.4919 ppm	0.4994 ppm	0.5060 ppm	0.4944 ppm	0.4863 ppm	0.4867 ppm
Concentration per Run 2	0.5177 ppm	0.5194 ppm	0.4977 ppm	0.5036 ppm	0.5210 ppm	0.5138 ppm	0.5096 ppm
Concentration per Run 3	0.5176 ppm	0.5398 ppm	0.4970 ppm	0.5049 ppm	0.5338 ppm	0.5262 ppm	0.5275 ppm
Recovery Percentage 1	103.559 %	103.408 %	99.603 %	100.971 %	103.281 %	101.757 %	101.587 %
Concentration RSD	0.0 %	4.6 %	0.2 %	0.2 %	3.9 %	4.0 %	4.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5080 ppm	0.5191 ppm	0.5057 ppm	0.5079 ppm	0.5186 ppm	5.4193 ppm	0.5132 ppm
Concentration per Run 1	0.5090 ppm	0.5199 ppm	0.5056 ppm	0.5077 ppm	0.4938 ppm	5.2107 ppm	0.4907 ppm
Concentration per Run 2	0.5073 ppm	0.5184 ppm	0.5059 ppm	0.5084 ppm	0.5243 ppm	5.4724 ppm	0.5179 ppm
Concentration per Run 3	0.5078 ppm	0.5189 ppm	0.5058 ppm	0.5076 ppm	0.5379 ppm	5.5747 ppm	0.5310 ppm
Recovery Percentage 1	101.608 %	103.815 %	101.149 %	101.580 %	103.729 %	108.386 %	102.638 %
Concentration RSD	0.2 %	0.2 %	0.0 %	0.1 %	4.3 %	3.5 %	4.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5041 ppm	0.5073 ppm	0.5017 ppm	10.7016 ppm	0.5121 ppm	0.5107 ppm	0.5117 ppm
Concentration per Run 1	0.5032 ppm	0.4848 ppm	0.4972 ppm	10.4189 ppm	0.5131 ppm	0.5119 ppm	0.5106 ppm
Concentration per Run 2	0.5044 ppm	0.5128 ppm	0.5014 ppm	10.8298 ppm	0.5117 ppm	0.5103 ppm	0.5093 ppm
Concentration per Run 3	0.5048 ppm	0.5242 ppm	0.5066 ppm	10.8561 ppm	0.5113 ppm	0.5100 ppm	0.5151 ppm
Recovery Percentage 1	100.824 %	101.451 %	100.349 %	107.016 %	102.414 %	102.146 %	102.334 %
Concentration RSD	0.2 %	4.0 %	0.9 %	2.3 %	0.2 %	0.2 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5018 ppm	5.6398 ppm	0.4714 ppm	0.4832 ppm	0.5106 ppm	0.5160 ppm	0.4995 ppm
Concentration per Run 1	0.4998 ppm	5.6582 ppm	0.4726 ppm	0.4622 ppm	0.5102 ppm	0.5174 ppm	0.4987 ppm
Concentration per Run 2	0.4995 ppm	5.6233 ppm	0.4704 ppm	0.4880 ppm	0.5111 ppm	0.5135 ppm	0.5002 ppm
Concentration per Run 3	0.5059 ppm	5.6377 ppm	0.4712 ppm	0.4995 ppm	0.5104 ppm	0.5171 ppm	0.4996 ppm
Recovery Percentage 1	100.352 %	107.424 %	94.280 %	96.644 %	102.114 %	103.197 %	99.902 %
Concentration RSD	0.7 %	0.3 %	0.2 %	4.0 %	0.1 %	0.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5121 ppm	94.1245 %	96.9820 %	95.9679 %	105.8616 %	98.9687 %	102.8203 %
Concentration per Run 1	0.5130 ppm	97.4304 %	97.1036 %	95.9516 %	108.0442 %	98.7191 %	102.9508 %
Concentration per Run 2	0.5114 ppm	93.4268 %	96.9380 %	96.0250 %	104.7874 %	99.0539 %	102.6752 %
Concentration per Run 3	0.5118 ppm	91.5162 %	96.9043 %	95.9270 %	104.7533 %	99.1332 %	102.8348 %
Recovery Percentage 1	102.412 %						
Concentration RSD	0.2 %	3.2 %	0.1 %	0.1 %	1.8 %	0.2 %	0.1 %

LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/27/2024 9:15:31 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	-0.0031 ppm	0.0002 ppm	0.0007 ppm	0.0006 ppm	0.0003 ppm	-0.0056 ppm
Concentration per Run 1	0.0005 ppm	-0.0019 ppm	-0.0009 ppm	0.0011 ppm	0.0008 ppm	0.0006 ppm	0.0010 ppm
Concentration per Run 2	0.0002 ppm	-0.0019 ppm	0.0004 ppm	0.0009 ppm	0.0006 ppm	0.0002 ppm	-0.0094 ppm
Concentration per Run 3	0.0006 ppm	-0.0055 ppm	0.0010 ppm	0.0003 ppm	0.0005 ppm	0.0002 ppm	-0.0083 ppm
Recovery Percentage 1	5.722 %	-3.094 %	3.322 %	2.478 %	6.172 %	6.673 %	-5.565 %
Concentration RSD	53.9 %	66.8 %	561.3 %	55.8 %	18.9 %	70.7 %	102.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0005 ppm	-0.0009 ppm	-0.1237 ppm	-0.0039 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	-0.0015 ppm	-0.1459 ppm	-0.0024 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0008 ppm	-0.0002 ppm	-0.0955 ppm	-0.0041 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0004 ppm	-0.0009 ppm	-0.1296 ppm	-0.0052 ppm
Recovery Percentage 1	0.693 %	0.359 %	2.417 %	-4.891 %	-1.729 %	-4.946 %	-39.139 %
Concentration RSD	88.1 %	138.2 %	42.7 %	51.7 %	77.0 %	20.8 %	36.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0016 ppm	0.0003 ppm	0.0024 ppm	-0.0106 ppm	0.0000 ppm	-0.0009 ppm	0.0016 ppm
Concentration per Run 1	-0.0005 ppm	0.0007 ppm	0.0028 ppm	-0.0145 ppm	0.0005 ppm	-0.0011 ppm	0.0014 ppm
Concentration per Run 2	-0.0011 ppm	0.0002 ppm	0.0024 ppm	-0.0095 ppm	-0.0003 ppm	-0.0009 ppm	0.0019 ppm
Concentration per Run 3	-0.0031 ppm	0.0000 ppm	0.0020 ppm	-0.0079 ppm	-0.0001 ppm	-0.0009 ppm	0.0014 ppm
Recovery Percentage 1	-1.551 %	3.140 %	4.758 %	-0.532 %	0.129 %	-9.407 %	3.122 %
Concentration RSD	86.2 %	113.2 %	17.8 %	32.2 %	1,250.5 %	11.2 %	20.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0011 ppm	0.0014 ppm	0.0003 ppm	0.0004 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0019 ppm	0.0021 ppm	0.0003 ppm	0.0006 ppm	0.0002 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 2	0.0005 ppm	0.0006 ppm	0.0003 ppm	0.0004 ppm	0.0002 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 3	-0.0017 ppm	0.0015 ppm	0.0002 ppm	0.0001 ppm	0.0005 ppm	-0.0001 ppm	0.0002 ppm
Recovery Percentage 1	-10.531 %	0.275 %	0.592 %	3.749 %	3.075 %	0.360 %	1.373 %
Concentration RSD	125.5 %	54.4 %	18.7 %	66.9 %	55.6 %	554.1 %	163.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	95.2451 %	98.5138 %	95.8934 %	98.2239 %	97.3287 %	100.0908 %
Concentration per Run 1	0.0002 ppm	95.2744 %	97.8811 %	96.0077 %	96.5084 %	97.0127 %	98.9992 %
Concentration per Run 2	0.0001 ppm	95.4149 %	100.8826 %	96.0088 %	98.0566 %	97.4475 %	102.4450 %
Concentration per Run 3	0.0000 ppm	95.0461 %	96.7778 %	95.6638 %	100.1069 %	97.5259 %	98.8281 %
Recovery Percentage 1	2.263 %						
Concentration RSD	88.4 %	0.2 %	2.2 %	0.2 %	1.8 %	0.3 %	2.0 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1975884-1 WG1975884
Analysis started at: 9/27/2024 9:23:26 AM
Comments <Comment>
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0062 ppm	-0.0015 ppm	0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0132 ppm
Concentration per Run 1	0.0002 ppm	0.0157 ppm	-0.0024 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0159 ppm
Concentration per Run 2	0.0006 ppm	0.0026 ppm	-0.0016 ppm	0.0010 ppm	0.0003 ppm	0.0000 ppm	0.0113 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0009 ppm	0.0002 ppm	0.0001 ppm	0.0125 ppm
Recovery Percentage 1	4.377 %	6.235 %	-29.346 %	2.794 %	2.205 %	0.749 %	13.218 %
Concentration RSD	84.4 %	133.2 %	72.6 %	25.9 %	58.9 %	142.0 %	18.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0010 ppm	-0.0003 ppm	0.0243 ppm	-0.1016 ppm	-0.0023 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0014 ppm	-0.0002 ppm	0.0265 ppm	-0.0881 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0007 ppm	-0.0002 ppm	0.0249 ppm	-0.1149 ppm	-0.0041 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0009 ppm	-0.0005 ppm	0.0215 ppm	-0.1017 ppm	-0.0024 ppm
Recovery Percentage 1	-0.750 %	0.080 %	9.826 %	-2.965 %	48.667 %	-4.063 %	-23.481 %
Concentration RSD	41.8 %	837.8 %	36.2 %	58.6 %	10.5 %	13.2 %	75.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0028 ppm	0.0007 ppm	0.0010 ppm	-0.0044 ppm	0.0004 ppm	-0.0010 ppm	0.0012 ppm
Concentration per Run 1	0.0030 ppm	0.0004 ppm	0.0012 ppm	0.0033 ppm	0.0003 ppm	-0.0010 ppm	0.0011 ppm
Concentration per Run 2	0.0025 ppm	0.0009 ppm	0.0009 ppm	-0.0049 ppm	0.0005 ppm	-0.0006 ppm	0.0016 ppm
Concentration per Run 3	0.0029 ppm	0.0007 ppm	0.0008 ppm	-0.0116 ppm	0.0003 ppm	-0.0013 ppm	0.0009 ppm
Recovery Percentage 1	2.782 %	6.982 %	1.919 %	-0.220 %	1.401 %	-9.728 %	2.354 %
Concentration RSD	10.1 %	35.1 %	20.8 %	170.2 %	35.8 %	35.2 %	28.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	0.0093 ppm	0.0009 ppm	-0.0001 ppm	0.0004 ppm	-0.0018 ppm	0.0001 ppm
Concentration per Run 1	0.0024 ppm	0.0095 ppm	0.0010 ppm	-0.0001 ppm	0.0004 ppm	-0.0010 ppm	0.0004 ppm
Concentration per Run 2	-0.0020 ppm	0.0091 ppm	0.0008 ppm	-0.0002 ppm	0.0004 ppm	-0.0021 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0094 ppm	0.0008 ppm	0.0000 ppm	0.0003 ppm	-0.0025 ppm	-0.0002 ppm
Recovery Percentage 1	1.201 %	1.866 %	1.725 %	-0.953 %	3.606 %	-9.185 %	1.146 %
Concentration RSD	1,850.8 %	2.5 %	13.1 %	84.7 %	13.3 %	41.2 %	250.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0017 ppm	86.8865 %	98.4807 %	95.8326 %	93.6727 %	97.1656 %	102.1717 %
Concentration per Run 1	0.0017 ppm	85.7786 %	99.1642 %	96.5314 %	92.1459 %	97.4412 %	102.5452 %
Concentration per Run 2	0.0018 ppm	85.4105 %	98.1914 %	95.1666 %	91.6855 %	96.5191 %	101.7737 %
Concentration per Run 3	0.0017 ppm	89.4703 %	98.0865 %	95.7997 %	97.1867 %	97.5364 %	102.1963 %
Recovery Percentage 1	34.386 %						
Concentration RSD	1.7 %	2.6 %	0.6 %	0.7 %	3.3 %	0.6 %	0.4 %

ICP DataTrace 5

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LabBook: WG1976666_09262024T5.imexp

Sample: WG1975884-2D2 WG1975884
Analysis started at: 9/27/2024 9:29:45 AM
Comments <Comment>
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0564 ppm	2.2735 ppm	0.1252 ppm	1.0346 ppm	2.2793 ppm	0.0570 ppm	11.2311 ppm
Concentration per Run 1	0.0567 ppm	2.2581 ppm	0.1287 ppm	1.0541 ppm	2.2576 ppm	0.0563 ppm	11.1489 ppm
Concentration per Run 2	0.0563 ppm	2.2961 ppm	0.1239 ppm	1.0335 ppm	2.2975 ppm	0.0574 ppm	11.2973 ppm
Concentration per Run 3	0.0561 ppm	2.2661 ppm	0.1228 ppm	1.0162 ppm	2.2827 ppm	0.0574 ppm	11.2472 ppm
Concentration RSD	0.5 %	0.9 %	2.5 %	1.8 %	0.9 %	1.1 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0554 ppm	0.5317 ppm	0.2206 ppm	0.2790 ppm	1.1863 ppm	11.8143 ppm	-0.0047 ppm
Concentration per Run 1	0.0565 ppm	0.5427 ppm	0.2232 ppm	0.2813 ppm	1.1710 ppm	11.7013 ppm	-0.0046 ppm
Concentration per Run 2	0.0554 ppm	0.5308 ppm	0.2190 ppm	0.2772 ppm	1.1954 ppm	11.8875 ppm	-0.0053 ppm
Concentration per Run 3	0.0544 ppm	0.5216 ppm	0.2195 ppm	0.2785 ppm	1.1925 ppm	11.8540 ppm	-0.0042 ppm
Concentration RSD	1.9 %	2.0 %	1.0 %	0.8 %	1.1 %	0.8 %	11.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.5984 ppm	0.5726 ppm	1.0742 ppm	11.9716 ppm	0.5257 ppm	0.5597 ppm	0.5374 ppm
Concentration per Run 1	10.6770 ppm	0.5666 ppm	1.0848 ppm	11.8594 ppm	0.5361 ppm	0.5708 ppm	0.5465 ppm
Concentration per Run 2	10.5379 ppm	0.5766 ppm	1.0729 ppm	12.0286 ppm	0.5252 ppm	0.5589 ppm	0.5385 ppm
Concentration per Run 3	10.5803 ppm	0.5747 ppm	1.0649 ppm	12.0267 ppm	0.5159 ppm	0.5494 ppm	0.5272 ppm
Concentration RSD	0.7 %	0.9 %	0.9 %	0.8 %	1.9 %	1.9 %	1.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1221 ppm	0.8763 ppm	0.9831 ppm	1.0870 ppm	1.0903 ppm	0.1262 ppm	0.5389 ppm
Concentration per Run 1	0.1251 ppm	0.8971 ppm	1.0037 ppm	1.0715 ppm	1.0973 ppm	0.1287 ppm	0.5418 ppm
Concentration per Run 2	0.1204 ppm	0.8734 ppm	0.9825 ppm	1.0950 ppm	1.0844 ppm	0.1257 ppm	0.5361 ppm
Concentration per Run 3	0.1210 ppm	0.8585 ppm	0.9630 ppm	1.0944 ppm	1.0893 ppm	0.1242 ppm	0.5389 ppm
Concentration RSD	2.1 %	2.2 %	2.1 %	1.2 %	0.6 %	1.8 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5295 ppm	95.0368 %	97.6352 %	95.9822 %	107.0827 %	99.1187 %	103.3601 %
Concentration per Run 1	0.5401 ppm	96.0432 %	97.3637 %	95.9083 %	107.9916 %	98.6800 %	102.9763 %
Concentration per Run 2	0.5291 ppm	94.5351 %	98.3015 %	96.1059 %	106.7055 %	99.4223 %	104.0122 %
Concentration per Run 3	0.5192 ppm	94.5320 %	97.2404 %	95.9324 %	106.5508 %	99.2539 %	103.0918 %
Concentration RSD	2.0 %	0.9 %	0.6 %	0.1 %	0.7 %	0.4 %	0.5 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2454386-22D2 WG1975884
Analysis started at: 9/27/2024 9:35:50 AM
Comments <Comment>
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0026 ppm	112.6759 ppm	0.0301 ppm	0.0166 ppm	0.5290 ppm	0.0036 ppm	24.7531 ppm
Concentration per Run 1	0.0026 ppm	112.4422 ppm	0.0307 ppm	0.0171 ppm	0.5279 ppm	0.0036 ppm	24.7095 ppm
Concentration per Run 2	0.0024 ppm	112.9713 ppm	0.0311 ppm	0.0166 ppm	0.5308 ppm	0.0036 ppm	24.8361 ppm
Concentration per Run 3	0.0026 ppm	112.6143 ppm	0.0286 ppm	0.0162 ppm	0.5283 ppm	0.0036 ppm	24.7138 ppm
Concentration RSD	4.6 %	0.2 %	4.5 %	2.5 %	0.3 %	0.4 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0011 ppm	0.0591 ppm	0.1779 ppm	0.1265 ppm	131.2204 ppm	6.5387 ppm	0.1008 ppm
Concentration per Run 1	0.0012 ppm	0.0594 ppm	0.1774 ppm	0.1262 ppm	128.4254 ppm	6.5478 ppm	0.1003 ppm
Concentration per Run 2	0.0011 ppm	0.0592 ppm	0.1787 ppm	0.1269 ppm	132.6222 ppm	6.5188 ppm	0.1018 ppm
Concentration per Run 3	0.0010 ppm	0.0588 ppm	0.1778 ppm	0.1264 ppm	132.6135 ppm	6.5493 ppm	0.1003 ppm
Concentration RSD	6.7 %	0.5 %	0.4 %	0.3 %	1.8 %	0.3 %	0.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	29.9324 ppm	1.5233 ppm	0.0084 ppm	0.9723 ppm	0.1071 ppm	0.1187 ppm	0.0074 ppm
Concentration per Run 1	29.8571 ppm	1.5173 ppm	0.0088 ppm	0.9686 ppm	0.1076 ppm	0.1200 ppm	0.0063 ppm
Concentration per Run 2	30.0127 ppm	1.5287 ppm	0.0087 ppm	0.9685 ppm	0.1073 ppm	0.1189 ppm	0.0072 ppm
Concentration per Run 3	29.9274 ppm	1.5238 ppm	0.0078 ppm	0.9799 ppm	0.1064 ppm	0.1172 ppm	0.0087 ppm
Concentration RSD	0.3 %	0.4 %	6.4 %	0.7 %	0.6 %	1.2 %	16.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0031 ppm	2.3890 ppm	0.0068 ppm	0.0878 ppm	1.6664 ppm	0.0028 ppm	0.2661 ppm
Concentration per Run 1	0.0025 ppm	2.3930 ppm	0.0073 ppm	0.0876 ppm	1.6642 ppm	0.0027 ppm	0.2655 ppm
Concentration per Run 2	0.0034 ppm	2.3998 ppm	0.0072 ppm	0.0883 ppm	1.6691 ppm	0.0027 ppm	0.2663 ppm
Concentration per Run 3	0.0032 ppm	2.3743 ppm	0.0057 ppm	0.0876 ppm	1.6658 ppm	0.0030 ppm	0.2665 ppm
Concentration RSD	15.1 %	0.6 %	13.5 %	0.4 %	0.1 %	6.1 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5057 ppm	109.4580 %	109.4724 %	108.5003 %	116.6856 %	100.3486 %	108.0721 %
Concentration per Run 1	0.5076 ppm	109.3879 %	109.6983 %	108.6939 %	116.9592 %	100.6396 %	108.2856 %
Concentration per Run 2	0.5076 ppm	109.7779 %	109.4820 %	108.3014 %	117.1912 %	100.1431 %	107.8791 %
Concentration per Run 3	0.5019 ppm	109.2081 %	109.2368 %	108.5057 %	115.9064 %	100.2630 %	108.0517 %
Concentration RSD	0.6 %	0.3 %	0.2 %	0.2 %	0.6 %	0.3 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2454386-23D2 WG1975884
Analysis started at: 9/27/2024 9:42:08 AM
Comments <Comment>
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0027 ppm	135.6458 ppm	0.0313 ppm	0.0125 ppm	0.6581 ppm	0.0035 ppm	14.8276 ppm
Concentration per Run 1	0.0034 ppm	136.0165 ppm	0.0306 ppm	0.0131 ppm	0.6602 ppm	0.0035 ppm	14.8821 ppm
Concentration per Run 2	0.0020 ppm	135.3408 ppm	0.0325 ppm	0.0128 ppm	0.6560 ppm	0.0034 ppm	14.7923 ppm
Concentration per Run 3	0.0029 ppm	135.5801 ppm	0.0309 ppm	0.0117 ppm	0.6580 ppm	0.0035 ppm	14.8085 ppm
Concentration RSD	25.3 %	0.3 %	3.3 %	5.7 %	0.3 %	1.0 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0009 ppm	0.0549 ppm	0.1761 ppm	0.1754 ppm	138.2080 ppm	7.3930 ppm	0.1122 ppm
Concentration per Run 1	0.0009 ppm	0.0556 ppm	0.1767 ppm	0.1755 ppm	137.2100 ppm	7.4303 ppm	0.1126 ppm
Concentration per Run 2	0.0008 ppm	0.0553 ppm	0.1757 ppm	0.1753 ppm	138.6145 ppm	7.3752 ppm	0.1120 ppm
Concentration per Run 3	0.0008 ppm	0.0537 ppm	0.1758 ppm	0.1754 ppm	138.7995 ppm	7.3733 ppm	0.1122 ppm
Concentration RSD	8.4 %	1.8 %	0.3 %	0.0 %	0.6 %	0.4 %	0.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	27.9292 ppm	3.1417 ppm	0.0056 ppm	0.8484 ppm	0.1125 ppm	0.0965 ppm	0.0075 ppm
Concentration per Run 1	27.9119 ppm	3.1468 ppm	0.0055 ppm	0.8431 ppm	0.1135 ppm	0.0981 ppm	0.0083 ppm
Concentration per Run 2	27.9126 ppm	3.1359 ppm	0.0056 ppm	0.8540 ppm	0.1135 ppm	0.0975 ppm	0.0073 ppm
Concentration per Run 3	27.9631 ppm	3.1423 ppm	0.0058 ppm	0.8481 ppm	0.1106 ppm	0.0939 ppm	0.0069 ppm
Concentration RSD	0.1 %	0.2 %	2.7 %	0.6 %	1.5 %	2.3 %	9.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0015 ppm	2.8035 ppm	0.0056 ppm	0.0886 ppm	3.3403 ppm	0.0049 ppm	0.2546 ppm
Concentration per Run 1	0.0018 ppm	2.8402 ppm	0.0058 ppm	0.0888 ppm	3.3404 ppm	0.0055 ppm	0.2543 ppm
Concentration per Run 2	-0.0003 ppm	2.8215 ppm	0.0052 ppm	0.0884 ppm	3.3396 ppm	0.0049 ppm	0.2544 ppm
Concentration per Run 3	0.0030 ppm	2.7487 ppm	0.0057 ppm	0.0888 ppm	3.3409 ppm	0.0044 ppm	0.2550 ppm
Concentration RSD	111.0 %	1.7 %	6.3 %	0.2 %	0.0 %	10.3 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3507 ppm	109.1535 %	108.0322 %	107.6695 %	121.3917 %	106.1065 %	113.2935 %
Concentration per Run 1	0.3556 ppm	109.0787 %	108.5500 %	108.2652 %	121.0653 %	106.3522 %	113.6145 %
Concentration per Run 2	0.3519 ppm	109.6016 %	107.7443 %	107.5869 %	121.4225 %	105.9721 %	113.1431 %
Concentration per Run 3	0.3444 ppm	108.7803 %	107.8023 %	107.1563 %	121.6873 %	105.9951 %	113.1230 %
Concentration RSD	1.6 %	0.4 %	0.4 %	0.5 %	0.3 %	0.2 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2454386-24D2 WG1975884
Analysis started at: 9/27/2024 9:48:29 AM
Comments <Comment>
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0027 ppm	57.2002 ppm	0.0222 ppm	0.0318 ppm	0.3543 ppm	0.0052 ppm	9.0573 ppm
Concentration per Run 1	0.0027 ppm	58.2213 ppm	0.0205 ppm	0.0319 ppm	0.3605 ppm	0.0053 ppm	9.2166 ppm
Concentration per Run 2	0.0026 ppm	57.5100 ppm	0.0234 ppm	0.0321 ppm	0.3564 ppm	0.0053 ppm	9.1058 ppm
Concentration per Run 3	0.0029 ppm	55.8693 ppm	0.0228 ppm	0.0314 ppm	0.3462 ppm	0.0051 ppm	8.8493 ppm
Concentration RSD	6.8 %	2.1 %	7.1 %	1.2 %	2.1 %	2.4 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0024 ppm	0.0583 ppm	0.1290 ppm	0.4577 ppm	122.2818 ppm	6.5959 ppm	0.0781 ppm
Concentration per Run 1	0.0024 ppm	0.0583 ppm	0.1283 ppm	0.4569 ppm	123.3369 ppm	6.7414 ppm	0.0799 ppm
Concentration per Run 2	0.0024 ppm	0.0589 ppm	0.1294 ppm	0.4575 ppm	122.1786 ppm	6.6348 ppm	0.0772 ppm
Concentration per Run 3	0.0023 ppm	0.0576 ppm	0.1293 ppm	0.4586 ppm	121.3299 ppm	6.4115 ppm	0.0771 ppm
Concentration RSD	2.8 %	1.1 %	0.5 %	0.2 %	0.8 %	2.6 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	21.7960 ppm	4.2092 ppm	0.0030 ppm	1.4426 ppm	0.1097 ppm	0.0969 ppm	0.0066 ppm
Concentration per Run 1	21.7692 ppm	4.2806 ppm	0.0028 ppm	1.4731 ppm	0.1099 ppm	0.0975 ppm	0.0062 ppm
Concentration per Run 2	21.7765 ppm	4.2346 ppm	0.0030 ppm	1.4530 ppm	0.1103 ppm	0.0977 ppm	0.0064 ppm
Concentration per Run 3	21.8421 ppm	4.1123 ppm	0.0031 ppm	1.4017 ppm	0.1090 ppm	0.0956 ppm	0.0072 ppm
Concentration RSD	0.2 %	2.1 %	5.6 %	2.6 %	0.6 %	1.2 %	8.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0016 ppm	1.8754 ppm	0.0043 ppm	0.0582 ppm	2.1559 ppm	0.0060 ppm	0.1819 ppm
Concentration per Run 1	0.0041 ppm	1.8867 ppm	0.0043 ppm	0.0594 ppm	2.1543 ppm	0.0063 ppm	0.1815 ppm
Concentration per Run 2	0.0006 ppm	1.8767 ppm	0.0041 ppm	0.0586 ppm	2.1552 ppm	0.0055 ppm	0.1820 ppm
Concentration per Run 3	0.0000 ppm	1.8629 ppm	0.0044 ppm	0.0566 ppm	2.1582 ppm	0.0061 ppm	0.1822 ppm
Concentration RSD	139.4 %	0.6 %	2.5 %	2.5 %	0.1 %	6.5 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3034 ppm	122.1774 %	131.1138 %	128.9316 %	105.6117 %	99.7175 %	106.9744 %
Concentration per Run 1	0.3047 ppm	120.0608 %	130.8964 %	129.1852 %	103.0587 %	100.2528 %	107.0690 %
Concentration per Run 2	0.3047 ppm	121.8203 %	131.3466 %	129.0770 %	105.0708 %	99.5452 %	107.1536 %
Concentration per Run 3	0.3008 ppm	124.6512 %	131.0985 %	128.5324 %	108.7056 %	99.3547 %	106.7008 %
Concentration RSD	0.7 %	1.9 %	0.2 %	0.3 %	2.7 %	0.5 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2454386-21D2 WG1975884
Analysis started at: 9/27/2024 9:54:49 AM
Comments <Comment>
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0052 ppm	135.0863 ppm	0.0359 ppm	0.1278 ppm	1.1738 ppm	0.0139 ppm	17.1113 ppm
Concentration per Run 1	0.0054 ppm	141.0872 ppm	0.0334 ppm	0.1288 ppm	1.2256 ppm	0.0144 ppm	17.8619 ppm
Concentration per Run 2	0.0053 ppm	134.8048 ppm	0.0347 ppm	0.1268 ppm	1.1708 ppm	0.0139 ppm	17.0628 ppm
Concentration per Run 3	0.0050 ppm	129.3670 ppm	0.0394 ppm	0.1277 ppm	1.1249 ppm	0.0134 ppm	16.4091 ppm
Concentration RSD	4.4 %	4.3 %	8.8 %	0.8 %	4.3 %	3.7 %	4.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0032 ppm	0.1412 ppm	0.2328 ppm	0.6090 ppm	321.3303 ppm	29.7661 ppm	0.2773 ppm
Concentration per Run 1	0.0033 ppm	0.1425 ppm	0.2344 ppm	0.6090 ppm	332.9550 ppm	30.9581 ppm	0.2848 ppm
Concentration per Run 2	0.0032 ppm	0.1407 ppm	0.2325 ppm	0.6092 ppm	320.4611 ppm	29.7426 ppm	0.2804 ppm
Concentration per Run 3	0.0031 ppm	0.1405 ppm	0.2316 ppm	0.6088 ppm	310.5747 ppm	28.5977 ppm	0.2666 ppm
Concentration RSD	2.7 %	0.8 %	0.6 %	0.0 %	3.5 %	4.0 %	3.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	64.0986 ppm	21.9970 ppm	0.0070 ppm	2.5997 ppm	0.2537 ppm	0.2060 ppm	0.0122 ppm
Concentration per Run 1	64.2344 ppm	23.0361 ppm	0.0072 ppm	2.6856 ppm	0.2551 ppm	0.2071 ppm	0.0134 ppm
Concentration per Run 2	64.0961 ppm	21.9731 ppm	0.0069 ppm	2.6138 ppm	0.2525 ppm	0.2052 ppm	0.0102 ppm
Concentration per Run 3	63.9653 ppm	20.9818 ppm	0.0070 ppm	2.4996 ppm	0.2535 ppm	0.2056 ppm	0.0129 ppm
Concentration RSD	0.2 %	4.7 %	2.1 %	3.6 %	0.5 %	0.5 %	14.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	2.3165 ppm	0.0087 ppm	0.1463 ppm	4.1026 ppm	0.0149 ppm	0.3212 ppm
Concentration per Run 1	0.0016 ppm	2.3352 ppm	0.0091 ppm	0.1525 ppm	4.1086 ppm	0.0129 ppm	0.3221 ppm
Concentration per Run 2	0.0000 ppm	2.3016 ppm	0.0084 ppm	0.1464 ppm	4.1038 ppm	0.0161 ppm	0.3211 ppm
Concentration per Run 3	-0.0010 ppm	2.3126 ppm	0.0085 ppm	0.1400 ppm	4.0953 ppm	0.0156 ppm	0.3203 ppm
Concentration RSD	638.9 %	0.7 %	4.1 %	4.3 %	0.2 %	11.5 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.7078 ppm	116.3659 %	122.3101 %	120.4398 %	116.9660 %	105.5219 %	115.4828 %
Concentration per Run 1	0.7132 ppm	112.1783 %	121.9983 %	120.5899 %	113.1177 %	105.8315 %	115.1626 %
Concentration per Run 2	0.7041 ppm	117.1258 %	122.5949 %	120.7887 %	117.0314 %	105.8727 %	115.6913 %
Concentration per Run 3	0.7062 ppm	119.7936 %	122.3371 %	119.9408 %	120.7489 %	104.8615 %	115.5946 %
Concentration RSD	0.7 %	3.3 %	0.2 %	0.4 %	3.3 %	0.5 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1975884-3D2 WG1975884
Analysis started at: 9/27/2024 10:01:10 AM
Comments <Comment>
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0513 ppm	142.4654 ppm	0.1451 ppm	0.9387 ppm	2.8228 ppm	0.0548 ppm	22.8883 ppm
Concentration per Run 1	0.0512 ppm	143.5536 ppm	0.1458 ppm	0.9540 ppm	2.8170 ppm	0.0552 ppm	23.0697 ppm
Concentration per Run 2	0.0513 ppm	141.6766 ppm	0.1462 ppm	0.9377 ppm	2.8394 ppm	0.0544 ppm	22.7338 ppm
Concentration per Run 3	0.0513 ppm	142.1661 ppm	0.1433 ppm	0.9245 ppm	2.8121 ppm	0.0547 ppm	22.8614 ppm
Concentration RSD	0.1 %	0.7 %	1.1 %	1.6 %	0.5 %	0.7 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0488 ppm	0.5660 ppm	0.4221 ppm	0.8886 ppm	313.7554 ppm	38.3514 ppm	0.2841 ppm
Concentration per Run 1	0.0497 ppm	0.5758 ppm	0.4236 ppm	0.8922 ppm	314.2713 ppm	38.6894 ppm	0.2869 ppm
Concentration per Run 2	0.0487 ppm	0.5654 ppm	0.4217 ppm	0.8887 ppm	313.4679 ppm	38.1433 ppm	0.2822 ppm
Concentration per Run 3	0.0480 ppm	0.5569 ppm	0.4210 ppm	0.8848 ppm	313.5271 ppm	38.2216 ppm	0.2831 ppm
Concentration RSD	1.8 %	1.7 %	0.3 %	0.4 %	0.1 %	0.8 %	0.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	77.7682 ppm	20.4971 ppm	0.8959 ppm	12.1347 ppm	0.6982 ppm	0.6537 ppm	0.4128 ppm
Concentration per Run 1	78.1501 ppm	20.5347 ppm	0.9069 ppm	12.2331 ppm	0.7100 ppm	0.6661 ppm	0.4207 ppm
Concentration per Run 2	78.1181 ppm	20.6282 ppm	0.8962 ppm	12.1619 ppm	0.6974 ppm	0.6522 ppm	0.4128 ppm
Concentration per Run 3	77.0363 ppm	20.3284 ppm	0.8844 ppm	12.0091 ppm	0.6871 ppm	0.6427 ppm	0.4047 ppm
Concentration RSD	0.8 %	0.7 %	1.3 %	0.9 %	1.6 %	1.8 %	1.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0878 ppm	3.4781 ppm	0.8148 ppm	0.9179 ppm	5.3867 ppm	0.1138 ppm	0.7525 ppm
Concentration per Run 1	0.0876 ppm	3.5499 ppm	0.8282 ppm	0.9248 ppm	5.4143 ppm	0.1143 ppm	0.7562 ppm
Concentration per Run 2	0.0882 ppm	3.4733 ppm	0.8152 ppm	0.9153 ppm	5.3894 ppm	0.1145 ppm	0.7532 ppm
Concentration per Run 3	0.0875 ppm	3.4113 ppm	0.8009 ppm	0.9136 ppm	5.3564 ppm	0.1125 ppm	0.7481 ppm
Concentration RSD	0.4 %	2.0 %	1.7 %	0.7 %	0.5 %	1.0 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.1801 ppm	126.3562 %	125.0234 %	122.5730 %	125.9884 %	106.5821 %	116.3970 %
Concentration per Run 1	1.2005 ppm	126.9019 %	124.7722 %	122.6969 %	126.6202 %	106.4837 %	116.0993 %
Concentration per Run 2	1.1784 ppm	127.0320 %	124.9638 %	122.8421 %	125.6228 %	107.0806 %	116.3758 %
Concentration per Run 3	1.1614 ppm	125.1348 %	125.3341 %	122.1802 %	125.7223 %	106.1820 %	116.7160 %
Concentration RSD	1.7 %	0.8 %	0.2 %	0.3 %	0.4 %	0.4 %	0.3 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1975884-4D2 WG1975884
Analysis started at: 9/27/2024 10:07:47 AM
Comments <Comment>
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0049 ppm	129.7452 ppm	0.0373 ppm	0.1259 ppm	1.1508 ppm	0.0135 ppm	14.7579 ppm
Concentration per Run 1	0.0051 ppm	130.0495 ppm	0.0374 ppm	0.1273 ppm	1.1538 ppm	0.0135 ppm	14.7835 ppm
Concentration per Run 2	0.0052 ppm	130.3488 ppm	0.0375 ppm	0.1267 ppm	1.1550 ppm	0.0136 ppm	14.8238 ppm
Concentration per Run 3	0.0043 ppm	128.8371 ppm	0.0370 ppm	0.1237 ppm	1.1435 ppm	0.0134 ppm	14.6665 ppm
Concentration RSD	10.1 %	0.6 %	0.7 %	1.5 %	0.6 %	0.8 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0034 ppm	0.1328 ppm	0.2294 ppm	0.6292 ppm	**301.1453 ppm**	28.2015 ppm	0.2633 ppm
Concentration per Run 1	0.0034 ppm	0.1343 ppm	0.2303 ppm	0.6299 ppm	302.5406 ppm	28.2117 ppm	0.2643 ppm
Concentration per Run 2	0.0033 ppm	0.1329 ppm	0.2288 ppm	0.6291 ppm	304.0946 ppm	28.3154 ppm	0.2657 ppm
Concentration per Run 3	0.0034 ppm	0.1313 ppm	0.2291 ppm	0.6285 ppm	296.8006 ppm	28.0774 ppm	0.2598 ppm
Concentration RSD	2.0 %	1.1 %	0.3 %	0.1 %	1.3 %	0.4 %	1.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	64.3127 ppm	**21.7112 ppm**	0.0093 ppm	2.4642 ppm	0.2576 ppm	0.2044 ppm	0.0131 ppm
Concentration per Run 1	64.4853 ppm	21.3024 ppm	0.0093 ppm	2.4677 ppm	0.2609 ppm	0.2071 ppm	0.0128 ppm
Concentration per Run 2	64.2210 ppm	21.8960 ppm	0.0093 ppm	2.4827 ppm	0.2582 ppm	0.2043 ppm	0.0127 ppm
Concentration per Run 3	64.2320 ppm	21.9350 ppm	0.0093 ppm	2.4422 ppm	0.2537 ppm	0.2017 ppm	0.0139 ppm
Concentration RSD	0.2 %	1.6 %	0.2 %	0.8 %	1.4 %	1.3 %	5.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	2.2572 ppm	0.0084 ppm	0.1333 ppm	4.1865 ppm	0.0156 ppm	0.3215 ppm
Concentration per Run 1	0.0016 ppm	2.2813 ppm	0.0087 ppm	0.1338 ppm	4.1945 ppm	0.0166 ppm	0.3213 ppm
Concentration per Run 2	0.0006 ppm	2.2625 ppm	0.0083 ppm	0.1340 ppm	4.1879 ppm	0.0146 ppm	0.3223 ppm
Concentration per Run 3	-0.0022 ppm	2.2278 ppm	0.0084 ppm	0.1322 ppm	4.1769 ppm	0.0156 ppm	0.3209 ppm
Concentration RSD	31,649.7 %	1.2 %	2.4 %	0.7 %	0.2 %	6.5 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.7215 ppm	121.1147 %	123.5422 %	121.5451 %	120.2903 %	105.3208 %	114.8958 %
Concentration per Run 1	0.7297 ppm	122.1571 %	123.4579 %	121.8896 %	121.1804 %	105.5691 %	114.5497 %
Concentration per Run 2	0.7217 ppm	120.8828 %	123.7723 %	121.6355 %	119.7155 %	105.3866 %	115.1097 %
Concentration per Run 3	0.7131 ppm	120.3042 %	123.3965 %	121.1103 %	119.9751 %	105.0067 %	115.0281 %
Concentration RSD	1.2 %	0.8 %	0.2 %	0.3 %	0.6 %	0.3 %	0.3 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1975884-5D2 WG1975884
Analysis started at: 9/27/2024 10:14:12 AM
Comments <Comment>
Rack: 1
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0483 ppm	121.1925 ppm	0.1412 ppm	0.9781 ppm	2.6080 ppm	0.0508 ppm	22.7615 ppm
Concentration per Run 1	0.0477 ppm	120.7189 ppm	0.1396 ppm	0.9779 ppm	2.5990 ppm	0.0507 ppm	22.6909 ppm
Concentration per Run 2	0.0485 ppm	121.1315 ppm	0.1426 ppm	0.9782 ppm	2.6062 ppm	0.0508 ppm	22.7390 ppm
Concentration per Run 3	0.0487 ppm	121.7271 ppm	0.1413 ppm	0.9782 ppm	2.6190 ppm	0.0509 ppm	22.8545 ppm
Concentration RSD	1.1 %	0.4 %	1.1 %	0.0 %	0.4 %	0.2 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0492 ppm	0.5652 ppm	0.3882 ppm	0.7965 ppm	286.1581 ppm	34.5697 ppm	0.2428 ppm
Concentration per Run 1	0.0494 ppm	0.5648 ppm	0.3887 ppm	0.7969 ppm	279.2988 ppm	34.4779 ppm	0.2420 ppm
Concentration per Run 2	0.0491 ppm	0.5652 ppm	0.3870 ppm	0.7967 ppm	289.2791 ppm	34.4982 ppm	0.2411 ppm
Concentration per Run 3	0.0491 ppm	0.5655 ppm	0.3889 ppm	0.7961 ppm	289.8965 ppm	34.7331 ppm	0.2452 ppm
Concentration RSD	0.3 %	0.1 %	0.3 %	0.1 %	2.1 %	0.4 %	0.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	68.8174 ppm	19.9068 ppm	0.9148 ppm	11.2055 ppm	0.6628 ppm	0.6488 ppm	0.4475 ppm
Concentration per Run 1	68.8580 ppm	19.8384 ppm	0.9080 ppm	11.1529 ppm	0.6624 ppm	0.6479 ppm	0.4420 ppm
Concentration per Run 2	68.7671 ppm	19.8991 ppm	0.9145 ppm	11.2282 ppm	0.6634 ppm	0.6498 ppm	0.4495 ppm
Concentration per Run 3	68.8272 ppm	19.9828 ppm	0.9218 ppm	11.2354 ppm	0.6626 ppm	0.6487 ppm	0.4512 ppm
Concentration RSD	0.1 %	0.4 %	0.8 %	0.4 %	0.1 %	0.1 %	1.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1023 ppm	2.7070 ppm	0.8286 ppm	0.8803 ppm	4.7375 ppm	0.1139 ppm	0.7211 ppm
Concentration per Run 1	0.1030 ppm	2.7125 ppm	0.8283 ppm	0.8767 ppm	4.7420 ppm	0.1145 ppm	0.7215 ppm
Concentration per Run 2	0.1017 ppm	2.7039 ppm	0.8291 ppm	0.8804 ppm	4.7335 ppm	0.1122 ppm	0.7209 ppm
Concentration per Run 3	0.1021 ppm	2.7045 ppm	0.8284 ppm	0.8839 ppm	4.7370 ppm	0.1151 ppm	0.7208 ppm
Concentration RSD	0.6 %	0.2 %	0.1 %	0.4 %	0.1 %	1.3 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.1045 ppm	119.4232 %	121.3471 %	120.0571 %	123.0193 %	106.5495 %	115.1016 %
Concentration per Run 1	1.1046 ppm	119.7265 %	121.2565 %	120.3019 %	123.6647 %	106.6548 %	115.0675 %
Concentration per Run 2	1.1047 ppm	119.7067 %	121.4453 %	119.9931 %	122.9063 %	106.4161 %	115.3121 %
Concentration per Run 3	1.1041 ppm	118.8365 %	121.3395 %	119.8763 %	122.4868 %	106.5775 %	114.9254 %
Concentration RSD	0.0 %	0.4 %	0.1 %	0.2 %	0.5 %	0.1 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: WG1975884-6D10 WG1975884
Analysis started at: 9/27/2024 10:20:26 AM
Comments <Comment>
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0013 ppm	30.6403 ppm	0.0066 ppm	0.0318 ppm	0.2654 ppm	0.0032 ppm	3.9739 ppm
Concentration per Run 1	0.0015 ppm	30.7418 ppm	0.0072 ppm	0.0315 ppm	0.2667 ppm	0.0032 ppm	3.9842 ppm
Concentration per Run 2	0.0011 ppm	30.6488 ppm	0.0068 ppm	0.0322 ppm	0.2652 ppm	0.0031 ppm	3.9745 ppm
Concentration per Run 3	0.0014 ppm	30.5305 ppm	0.0059 ppm	0.0315 ppm	0.2643 ppm	0.0032 ppm	3.9631 ppm
Concentration RSD	13.6 %	0.3 %	9.6 %	1.3 %	0.5 %	1.9 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0007 ppm	0.0322 ppm	0.0536 ppm	0.1343 ppm	76.9179 ppm	6.7687 ppm	0.0582 ppm
Concentration per Run 1	0.0007 ppm	0.0322 ppm	0.0539 ppm	0.1341 ppm	77.0662 ppm	6.8144 ppm	0.0598 ppm
Concentration per Run 2	0.0007 ppm	0.0319 ppm	0.0535 ppm	0.1345 ppm	77.0395 ppm	6.7761 ppm	0.0568 ppm
Concentration per Run 3	0.0007 ppm	0.0325 ppm	0.0532 ppm	0.1344 ppm	76.6480 ppm	6.7155 ppm	0.0580 ppm
Concentration RSD	3.3 %	0.9 %	0.6 %	0.2 %	0.3 %	0.7 %	2.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	14.6250 ppm	5.1170 ppm	0.0053 ppm	0.5634 ppm	0.0552 ppm	0.0476 ppm	0.0080 ppm
Concentration per Run 1	14.6089 ppm	5.1361 ppm	0.0057 ppm	0.5620 ppm	0.0551 ppm	0.0474 ppm	0.0082 ppm
Concentration per Run 2	14.6378 ppm	5.1178 ppm	0.0053 ppm	0.5760 ppm	0.0552 ppm	0.0472 ppm	0.0081 ppm
Concentration per Run 3	14.6283 ppm	5.0972 ppm	0.0048 ppm	0.5523 ppm	0.0553 ppm	0.0481 ppm	0.0078 ppm
Concentration RSD	0.1 %	0.4 %	8.2 %	2.1 %	0.1 %	1.0 %	3.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0018 ppm	0.5056 ppm	0.0025 ppm	0.0338 ppm	0.9144 ppm	0.0027 ppm	0.0723 ppm
Concentration per Run 1	-0.0036 ppm	0.5077 ppm	0.0025 ppm	0.0338 ppm	0.9136 ppm	0.0035 ppm	0.0723 ppm
Concentration per Run 2	-0.0008 ppm	0.5056 ppm	0.0029 ppm	0.0337 ppm	0.9148 ppm	0.0035 ppm	0.0727 ppm
Concentration per Run 3	-0.0009 ppm	0.5037 ppm	0.0022 ppm	0.0338 ppm	0.9150 ppm	0.0011 ppm	0.0719 ppm
Concentration RSD	89.4 %	0.4 %	12.9 %	0.2 %	0.1 %	51.6 %	0.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1621 ppm	99.3067 %	103.1983 %	102.0581 %	108.8809 %	101.2357 %	105.8096 %
Concentration per Run 1	0.1620 ppm	99.2077 %	103.3835 %	102.3826 %	108.7431 %	101.2808 %	106.0212 %
Concentration per Run 2	0.1619 ppm	99.5055 %	103.4058 %	101.8835 %	109.0920 %	101.1543 %	105.8262 %
Concentration per Run 3	0.1626 ppm	99.2068 %	102.8058 %	101.9082 %	108.8076 %	101.2719 %	105.5815 %
Concentration RSD	0.2 %	0.2 %	0.3 %	0.3 %	0.2 %	0.1 %	0.2 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/27/2024 10:26:38 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5248 ppm	0.5727 ppm	0.5029 ppm	0.5124 ppm	0.5252 ppm	0.5108 ppm	0.5163 ppm
Concentration per Run 1	0.5250 ppm	0.5589 ppm	0.4958 ppm	0.5050 ppm	0.5090 ppm	0.4939 ppm	0.5056 ppm
Concentration per Run 2	0.5242 ppm	0.5854 ppm	0.5094 ppm	0.5186 ppm	0.5282 ppm	0.5139 ppm	0.5157 ppm
Concentration per Run 3	0.5252 ppm	0.5738 ppm	0.5033 ppm	0.5138 ppm	0.5384 ppm	0.5247 ppm	0.5275 ppm
Recovery Percentage 1	104.956 %	114.537 %	100.571 %	102.489 %	105.038 %	102.166 %	103.252 %
Concentration RSD	0.1 %	2.3 %	1.4 %	1.3 %	2.8 %	3.1 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5158 ppm	0.5273 ppm	0.5156 ppm	0.5126 ppm	0.6492 ppm	5.5421 ppm	0.5250 ppm
Concentration per Run 1	0.5080 ppm	0.5190 ppm	0.5148 ppm	0.5136 ppm	0.6554 ppm	5.3930 ppm	0.5067 ppm
Concentration per Run 2	0.5219 ppm	0.5333 ppm	0.5150 ppm	0.5130 ppm	0.6545 ppm	5.5579 ppm	0.5299 ppm
Concentration per Run 3	0.5176 ppm	0.5295 ppm	0.5169 ppm	0.5111 ppm	0.6377 ppm	5.6754 ppm	0.5384 ppm
Recovery Percentage 1	103.166 %	105.451 %	103.117 %	102.516 %	129.836 %	110.842 %	105.003 %
Concentration RSD	1.4 %	1.4 %	0.2 %	0.3 %	1.5 %	2.6 %	3.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5100 ppm	0.5199 ppm	0.5185 ppm	11.0143 ppm	0.5173 ppm	0.5145 ppm	0.5215 ppm
Concentration per Run 1	0.5100 ppm	0.5052 ppm	0.5066 ppm	10.7466 ppm	0.5099 ppm	0.5078 ppm	0.5143 ppm
Concentration per Run 2	0.5113 ppm	0.5233 ppm	0.5245 ppm	11.1071 ppm	0.5238 ppm	0.5206 ppm	0.5267 ppm
Concentration per Run 3	0.5085 ppm	0.5312 ppm	0.5243 ppm	11.1892 ppm	0.5184 ppm	0.5152 ppm	0.5235 ppm
Recovery Percentage 1	101.992 %	103.981 %	103.695 %	110.143 %	103.469 %	102.907 %	104.300 %
Concentration RSD	0.3 %	2.6 %	2.0 %	2.1 %	1.4 %	1.2 %	1.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5084 ppm	5.6736 ppm	0.4752 ppm	0.4963 ppm	0.5161 ppm	0.5234 ppm	0.5041 ppm
Concentration per Run 1	0.5000 ppm	5.5857 ppm	0.4689 ppm	0.4805 ppm	0.5160 ppm	0.5157 ppm	0.5040 ppm
Concentration per Run 2	0.5130 ppm	5.7382 ppm	0.4804 ppm	0.4993 ppm	0.5165 ppm	0.5292 ppm	0.5047 ppm
Concentration per Run 3	0.5122 ppm	5.6970 ppm	0.4764 ppm	0.5092 ppm	0.5158 ppm	0.5252 ppm	0.5037 ppm
Recovery Percentage 1	101.680 %	108.069 %	95.045 %	99.263 %	103.220 %	104.678 %	100.822 %
Concentration RSD	1.4 %	1.4 %	1.2 %	2.9 %	0.1 %	1.3 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5187 ppm	91.5959 %	95.8554 %	94.5764 %	102.8301 %	97.7320 %	101.5092 %
Concentration per Run 1	0.5104 ppm	94.2390 %	95.9606 %	95.9312 %	105.0209 %	99.3201 %	101.6394 %
Concentration per Run 2	0.5257 ppm	91.2342 %	95.8900 %	93.5739 %	102.3217 %	96.4800 %	101.5295 %
Concentration per Run 3	0.5201 ppm	89.3145 %	95.7156 %	94.2241 %	101.1478 %	97.3960 %	101.3589 %
Recovery Percentage 1	103.742 %						
Concentration RSD	1.5 %	2.7 %	0.1 %	1.3 %	1.9 %	1.5 %	0.1 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/27/2024 10:32:40 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0034 ppm	0.0000 ppm	0.0013 ppm	0.0005 ppm	0.0003 ppm	0.0026 ppm
Concentration per Run 1	0.0004 ppm	0.0038 ppm	-0.0001 ppm	0.0019 ppm	0.0007 ppm	0.0006 ppm	0.0048 ppm
Concentration per Run 2	0.0007 ppm	0.0036 ppm	0.0002 ppm	0.0008 ppm	0.0002 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 3	0.0005 ppm	0.0026 ppm	0.0000 ppm	0.0013 ppm	0.0005 ppm	0.0001 ppm	0.0028 ppm
Recovery Percentage 1	7.836 %	3.368 %	0.380 %	4.462 %	4.654 %	6.123 %	2.611 %
Concentration RSD	30.1 %	19.0 %	771.2 %	42.3 %	46.8 %	73.9 %	86.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0000 ppm	-0.0005 ppm	0.0096 ppm	-0.1311 ppm	-0.0048 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0007 ppm	0.0103 ppm	-0.1175 ppm	-0.0028 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0004 ppm	-0.0005 ppm	0.0078 ppm	-0.1377 ppm	-0.0073 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	-0.0001 ppm	-0.0005 ppm	0.0106 ppm	-0.1381 ppm	-0.0041 ppm
Recovery Percentage 1	1.100 %	0.833 %	0.458 %	-5.343 %	19.184 %	-5.243 %	-47.525 %
Concentration RSD	64.5 %	96.2 %	750.9 %	24.3 %	15.8 %	9.0 %	48.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0005 ppm	0.0007 ppm	0.0028 ppm	0.0039 ppm	0.0002 ppm	-0.0005 ppm	0.0018 ppm
Concentration per Run 1	0.0008 ppm	0.0011 ppm	0.0032 ppm	0.0025 ppm	-0.0001 ppm	-0.0011 ppm	0.0013 ppm
Concentration per Run 2	-0.0012 ppm	0.0002 ppm	0.0029 ppm	0.0013 ppm	0.0003 ppm	0.0000 ppm	0.0040 ppm
Concentration per Run 3	0.0019 ppm	0.0008 ppm	0.0023 ppm	0.0081 ppm	0.0004 ppm	-0.0003 ppm	0.0002 ppm
Recovery Percentage 1	0.513 %	6.925 %	5.588 %	0.197 %	0.703 %	-4.564 %	3.655 %
Concentration RSD	313.3 %	66.8 %	16.5 %	92.3 %	155.4 %	124.6 %	108.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0013 ppm	0.0009 ppm	0.0005 ppm	0.0004 ppm	0.0005 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 1	-0.0004 ppm	0.0007 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 2	0.0037 ppm	0.0019 ppm	0.0011 ppm	0.0004 ppm	0.0008 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 3	0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0006 ppm	-0.0012 ppm	0.0003 ppm
Recovery Percentage 1	12.521 %	0.176 %	0.935 %	4.347 %	4.895 %	-5.226 %	0.827 %
Concentration RSD	174.4 %	107.6 %	124.2 %	39.6 %	67.7 %	46.3 %	200.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	93.7913 %	98.1435 %	96.7172 %	98.9875 %	98.7884 %	100.7648 %
Concentration per Run 1	0.0001 ppm	94.0912 %	98.3139 %	96.7953 %	97.8865 %	98.4997 %	100.6988 %
Concentration per Run 2	0.0001 ppm	92.9738 %	98.2229 %	96.5561 %	98.0933 %	98.5589 %	100.8089 %
Concentration per Run 3	0.0002 ppm	94.3088 %	97.8937 %	96.8002 %	100.9828 %	99.3066 %	100.7866 %
Recovery Percentage 1	2.428 %						
Concentration RSD	47.1 %	0.8 %	0.2 %	0.1 %	1.7 %	0.5 %	0.1 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: LDR 25 Mn
Analysis started at: 9/27/2024 10:39:07 AM
Comments <Comment>
Rack: 1
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0012 ppm	0.0011 ppm	-0.0004 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0017 ppm
Concentration per Run 1	0.0009 ppm	-0.0055 ppm	-0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0052 ppm
Concentration per Run 2	0.0011 ppm	0.0077 ppm	-0.0008 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	0.0016 ppm	0.0012 ppm	0.0008 ppm	-0.0008 ppm	0.0001 ppm	-0.0001 ppm	-0.0003 ppm
Concentration RSD	27.5 %	579.1 %	249.4 %	130.0 %	158.4 %	1,489.5 %	173.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0070 ppm	-0.0006 ppm	-0.0127 ppm	-0.1278 ppm	-0.0053 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0074 ppm	-0.0007 ppm	-0.0132 ppm	-0.1324 ppm	-0.0059 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0068 ppm	-0.0008 ppm	-0.0118 ppm	-0.1189 ppm	-0.0025 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0069 ppm	-0.0003 ppm	-0.0130 ppm	-0.1320 ppm	-0.0073 ppm
Concentration RSD	761.8 %	68.7 %	4.8 %	38.1 %	5.9 %	6.0 %	47.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0108 ppm	25.9273 ppm	0.0004 ppm	0.0078 ppm	0.0000 ppm	0.0024 ppm	0.0018 ppm
Concentration per Run 1	-0.0128 ppm	25.5213 ppm	0.0004 ppm	0.0036 ppm	0.0002 ppm	0.0023 ppm	0.0014 ppm
Concentration per Run 2	-0.0091 ppm	26.0897 ppm	0.0005 ppm	0.0100 ppm	0.0000 ppm	0.0025 ppm	0.0023 ppm
Concentration per Run 3	-0.0104 ppm	26.1710 ppm	0.0005 ppm	0.0098 ppm	-0.0001 ppm	0.0022 ppm	0.0017 ppm
Concentration RSD	17.5 %	1.4 %	17.7 %	46.4 %	378.1 %	7.4 %	26.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0017 ppm	0.0019 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0098 ppm	0.0265 ppm
Concentration per Run 1	0.0029 ppm	0.0026 ppm	-0.0003 ppm	-0.0002 ppm	-0.0004 ppm	0.0099 ppm	0.0262 ppm
Concentration per Run 2	-0.0007 ppm	0.0011 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm	0.0091 ppm	0.0266 ppm
Concentration per Run 3	0.0029 ppm	0.0019 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0103 ppm	0.0266 ppm
Concentration RSD	121.4 %	42.1 %	587.4 %	215.6 %	4,515.6 %	5.9 %	1.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	94.5210 %	98.3246 %	97.4477 %	100.3904 %	99.9397 %	102.2543 %
Concentration per Run 1	0.0004 ppm	95.5966 %	98.7382 %	97.3996 %	100.0386 %	99.8460 %	102.3793 %
Concentration per Run 2	0.0003 ppm	94.2379 %	98.1221 %	97.5058 %	99.7765 %	99.7817 %	102.1323 %
Concentration per Run 3	0.0004 ppm	93.7286 %	98.1134 %	97.4378 %	101.3561 %	100.1915 %	102.2513 %
Concentration RSD	12.5 %	1.0 %	0.4 %	0.1 %	0.8 %	0.2 %	0.1 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2454386-25D2 WG1975884
Analysis started at: 9/27/2024 10:45:23 AM
Comments <Comment>
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0036 ppm	78.7061 ppm	0.0257 ppm	0.0315 ppm	0.3745 ppm	0.0064 ppm	11.4368 ppm
Concentration per Run 1	0.0030 ppm	78.7854 ppm	0.0265 ppm	0.0320 ppm	0.3749 ppm	0.0064 ppm	11.4498 ppm
Concentration per Run 2	0.0039 ppm	79.4842 ppm	0.0252 ppm	0.0310 ppm	0.3783 ppm	0.0065 ppm	11.5565 ppm
Concentration per Run 3	0.0040 ppm	77.8489 ppm	0.0253 ppm	0.0314 ppm	0.3705 ppm	0.0063 ppm	11.3042 ppm
Concentration RSD	15.5 %	1.0 %	2.7 %	1.5 %	1.0 %	1.9 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0018 ppm	0.0767 ppm	0.1472 ppm	0.5038 ppm	143.6537 ppm	6.7200 ppm	0.0768 ppm
Concentration per Run 1	0.0019 ppm	0.0775 ppm	0.1472 ppm	0.5026 ppm	143.4585 ppm	6.7058 ppm	0.0761 ppm
Concentration per Run 2	0.0017 ppm	0.0766 ppm	0.1475 ppm	0.5051 ppm	146.3738 ppm	6.7885 ppm	0.0787 ppm
Concentration per Run 3	0.0017 ppm	0.0759 ppm	0.1470 ppm	0.5038 ppm	141.1289 ppm	6.6658 ppm	0.0755 ppm
Concentration RSD	7.3 %	1.1 %	0.2 %	0.3 %	1.8 %	0.9 %	2.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	24.8606 ppm	5.0343 ppm	0.0041 ppm	2.7377 ppm	0.1308 ppm	0.1215 ppm	0.0103 ppm
Concentration per Run 1	24.7673 ppm	5.0355 ppm	0.0040 ppm	2.7117 ppm	0.1320 ppm	0.1226 ppm	0.0104 ppm
Concentration per Run 2	24.8629 ppm	5.0904 ppm	0.0041 ppm	2.7852 ppm	0.1304 ppm	0.1215 ppm	0.0114 ppm
Concentration per Run 3	24.9517 ppm	4.9771 ppm	0.0042 ppm	2.7163 ppm	0.1301 ppm	0.1205 ppm	0.0091 ppm
Concentration RSD	0.4 %	1.1 %	1.8 %	1.5 %	0.8 %	0.9 %	11.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0002 ppm	1.8707 ppm	0.0049 ppm	0.0872 ppm	2.1500 ppm	0.0076 ppm	0.2547 ppm
Concentration per Run 1	-0.0025 ppm	1.8912 ppm	0.0045 ppm	0.0869 ppm	2.1456 ppm	0.0077 ppm	0.2539 ppm
Concentration per Run 2	0.0006 ppm	1.8668 ppm	0.0052 ppm	0.0881 ppm	2.1523 ppm	0.0066 ppm	0.2552 ppm
Concentration per Run 3	0.0012 ppm	1.8542 ppm	0.0050 ppm	0.0865 ppm	2.1521 ppm	0.0085 ppm	0.2552 ppm
Concentration RSD	831.9 %	1.0 %	7.3 %	0.9 %	0.2 %	12.1 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3126 ppm	138.0562 %	145.0271 %	143.6588 %	115.3433 %	103.9220 %	112.2176 %
Concentration per Run 1	0.3159 ppm	137.3896 %	145.5022 %	143.7115 %	115.5624 %	103.7553 %	112.6671 %
Concentration per Run 2	0.3120 ppm	136.4715 %	144.9670 %	143.7502 %	113.6151 %	104.1763 %	112.1358 %
Concentration per Run 3	0.3100 ppm	140.3076 %	144.6121 %	143.5146 %	116.8525 %	103.8343 %	111.8500 %
Concentration RSD	1.0 %	1.5 %	0.3 %	0.1 %	1.4 %	0.2 %	0.4 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2454386-26D2 WG1975884
Analysis started at: 9/27/2024 10:51:42 AM
Comments <Comment>
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0015 ppm	43.4925 ppm	0.0140 ppm	0.0280 ppm	0.4607 ppm	0.0025 ppm	7.7907 ppm
Concentration per Run 1	0.0006 ppm	43.6971 ppm	0.0140 ppm	0.0280 ppm	0.4635 ppm	0.0025 ppm	7.8280 ppm
Concentration per Run 2	0.0016 ppm	43.0893 ppm	0.0148 ppm	0.0283 ppm	0.4558 ppm	0.0025 ppm	7.7209 ppm
Concentration per Run 3	0.0022 ppm	43.6912 ppm	0.0131 ppm	0.0277 ppm	0.4627 ppm	0.0025 ppm	7.8231 ppm
Concentration RSD	55.4 %	0.8 %	6.2 %	1.0 %	0.9 %	0.5 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0008 ppm	0.0339 ppm	0.0966 ppm	0.1811 ppm	101.5136 ppm	6.1633 ppm	0.0600 ppm
Concentration per Run 1	0.0007 ppm	0.0338 ppm	0.0967 ppm	0.1802 ppm	101.8720 ppm	6.2208 ppm	0.0617 ppm
Concentration per Run 2	0.0008 ppm	0.0341 ppm	0.0959 ppm	0.1815 ppm	100.5801 ppm	6.0986 ppm	0.0568 ppm
Concentration per Run 3	0.0008 ppm	0.0337 ppm	0.0973 ppm	0.1816 ppm	102.0887 ppm	6.1706 ppm	0.0616 ppm
Concentration RSD	4.3 %	0.5 %	0.7 %	0.4 %	0.8 %	1.0 %	4.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	16.2657 ppm	0.8208 ppm	0.0014 ppm	1.5063 ppm	0.0726 ppm	0.0690 ppm	0.0053 ppm
Concentration per Run 1	16.2229 ppm	0.8236 ppm	0.0011 ppm	1.5157 ppm	0.0727 ppm	0.0691 ppm	0.0040 ppm
Concentration per Run 2	16.2662 ppm	0.8131 ppm	0.0015 ppm	1.4980 ppm	0.0728 ppm	0.0696 ppm	0.0068 ppm
Concentration per Run 3	16.3082 ppm	0.8256 ppm	0.0015 ppm	1.5052 ppm	0.0724 ppm	0.0683 ppm	0.0049 ppm
Concentration RSD	0.3 %	0.8 %	16.1 %	0.6 %	0.3 %	1.0 %	27.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0016 ppm	1.8731 ppm	0.0030 ppm	0.0958 ppm	1.7569 ppm	0.0027 ppm	0.1310 ppm
Concentration per Run 1	-0.0023 ppm	1.8672 ppm	0.0038 ppm	0.0965 ppm	1.7529 ppm	0.0023 ppm	0.1307 ppm
Concentration per Run 2	-0.0018 ppm	1.8889 ppm	0.0023 ppm	0.0948 ppm	1.7567 ppm	0.0026 ppm	0.1308 ppm
Concentration per Run 3	-0.0005 ppm	1.8633 ppm	0.0030 ppm	0.0963 ppm	1.7612 ppm	0.0031 ppm	0.1315 ppm
Concentration RSD	61.5 %	0.7 %	24.4 %	1.0 %	0.2 %	14.7 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1988 ppm	109.3849 %	112.0316 %	110.9850 %	112.6096 %	102.4532 %	107.9020 %
Concentration per Run 1	0.1985 ppm	108.6210 %	111.8210 %	111.1165 %	111.7323 %	102.4475 %	107.7330 %
Concentration per Run 2	0.1991 ppm	110.6728 %	112.3491 %	111.1689 %	113.7370 %	102.6285 %	108.2174 %
Concentration per Run 3	0.1987 ppm	108.8610 %	111.9248 %	110.6695 %	112.3594 %	102.2835 %	107.7556 %
Concentration RSD	0.2 %	1.0 %	0.2 %	0.2 %	0.9 %	0.2 %	0.3 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2454464-21D2 WG1975884
Analysis started at: 9/27/2024 10:57:54 AM
Comments <Comment>
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0048 ppm	73.1448 ppm	0.0425 ppm	0.0937 ppm	1.1594 ppm	0.0077 ppm	57.8433 ppm
Concentration per Run 1	0.0055 ppm	75.0844 ppm	0.0433 ppm	0.0939 ppm	1.1896 ppm	0.0079 ppm	59.3907 ppm
Concentration per Run 2	0.0046 ppm	73.6404 ppm	0.0419 ppm	0.0937 ppm	1.1667 ppm	0.0076 ppm	58.1901 ppm
Concentration per Run 3	0.0044 ppm	70.7096 ppm	0.0423 ppm	0.0934 ppm	1.1218 ppm	0.0075 ppm	55.9491 ppm
Concentration RSD	12.1 %	3.0 %	1.7 %	0.2 %	3.0 %	2.5 %	3.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0094 ppm	0.1240 ppm	0.3036 ppm	0.1859 ppm	224.1771 ppm	16.0065 ppm	0.1818 ppm
Concentration per Run 1	0.0095 ppm	0.1252 ppm	0.3025 ppm	0.1854 ppm	228.2661 ppm	16.4446 ppm	0.1871 ppm
Concentration per Run 2	0.0093 ppm	0.1240 ppm	0.3038 ppm	0.1863 ppm	226.1905 ppm	16.0804 ppm	0.1826 ppm
Concentration per Run 3	0.0093 ppm	0.1228 ppm	0.3045 ppm	0.1859 ppm	218.0748 ppm	15.4946 ppm	0.1756 ppm
Concentration RSD	1.3 %	1.0 %	0.3 %	0.2 %	2.4 %	3.0 %	3.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	47.8641 ppm	10.4578 ppm	0.0110 ppm	13.7201 ppm	0.2505 ppm	1.3003 ppm	0.0126 ppm
Concentration per Run 1	47.8360 ppm	10.7344 ppm	0.0110 ppm	14.1675 ppm	0.2514 ppm	1.3063 ppm	0.0143 ppm
Concentration per Run 2	47.9248 ppm	10.5095 ppm	0.0110 ppm	13.7799 ppm	0.2512 ppm	1.3027 ppm	0.0113 ppm
Concentration per Run 3	47.8314 ppm	10.1295 ppm	0.0110 ppm	13.2127 ppm	0.2490 ppm	1.2918 ppm	0.0121 ppm
Concentration RSD	0.1 %	2.9 %	0.3 %	3.5 %	0.5 %	0.6 %	12.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0026 ppm	2.2795 ppm	0.0612 ppm	0.2588 ppm	3.8226 ppm	0.0118 ppm	0.3789 ppm
Concentration per Run 1	0.0045 ppm	2.2979 ppm	0.0615 ppm	0.2651 ppm	3.8205 ppm	0.0116 ppm	0.3791 ppm
Concentration per Run 2	0.0012 ppm	2.2841 ppm	0.0616 ppm	0.2601 ppm	3.8263 ppm	0.0090 ppm	0.3790 ppm
Concentration per Run 3	0.0022 ppm	2.2565 ppm	0.0605 ppm	0.2512 ppm	3.8210 ppm	0.0149 ppm	0.3788 ppm
Concentration RSD	64.7 %	0.9 %	1.0 %	2.7 %	0.1 %	24.7 %	0.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	3.3998 ppm	134.5647 %	143.6934 %	140.3323 %	106.9021 %	98.3992 %	107.4966 %
Concentration per Run 1	3.4129 ppm	131.6477 %	143.4225 %	140.7550 %	103.8317 %	98.5103 %	107.3313 %
Concentration per Run 2	3.4072 ppm	134.0309 %	143.9078 %	140.3262 %	106.3729 %	98.2363 %	107.5688 %
Concentration per Run 3	3.3794 ppm	138.0155 %	143.7500 %	139.9158 %	110.5019 %	98.4510 %	107.5898 %
Concentration RSD	0.5 %	2.4 %	0.2 %	0.3 %	3.1 %	0.1 %	0.1 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: L2454464-22D2 WG1975884
Analysis started at: 9/27/2024 11:04:07 AM
Comments <Comment>
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0057 ppm	101.7594 ppm	0.0266 ppm	0.2469 ppm	0.6090 ppm	0.0056 ppm	79.9447 ppm
Concentration per Run 1	0.0058 ppm	103.3864 ppm	0.0283 ppm	0.2507 ppm	0.6186 ppm	0.0056 ppm	81.3029 ppm
Concentration per Run 2	0.0058 ppm	101.1502 ppm	0.0260 ppm	0.2476 ppm	0.6054 ppm	0.0056 ppm	79.4346 ppm
Concentration per Run 3	0.0056 ppm	100.7417 ppm	0.0256 ppm	0.2422 ppm	0.6029 ppm	0.0056 ppm	79.0966 ppm
Concentration RSD	2.0 %	1.4 %	5.6 %	1.7 %	1.4 %	0.3 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0189 ppm	0.1501 ppm	0.2910 ppm	0.7213 ppm	232.3974 ppm	7.3302 ppm	0.1455 ppm
Concentration per Run 1	0.0194 ppm	0.1529 ppm	0.2905 ppm	0.7226 ppm	235.8791 ppm	7.4634 ppm	0.1485 ppm
Concentration per Run 2	0.0188 ppm	0.1507 ppm	0.2917 ppm	0.7240 ppm	232.3471 ppm	7.2793 ppm	0.1441 ppm
Concentration per Run 3	0.0184 ppm	0.1466 ppm	0.2909 ppm	0.7173 ppm	228.9661 ppm	7.2478 ppm	0.1438 ppm
Concentration RSD	2.6 %	2.1 %	0.2 %	0.5 %	1.5 %	1.6 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	97.3971 ppm	4.1544 ppm	0.0042 ppm	18.9837 ppm	0.3469 ppm	0.7884 ppm	0.0124 ppm
Concentration per Run 1	97.4154 ppm	4.2243 ppm	0.0043 ppm	19.3199 ppm	0.3528 ppm	0.8039 ppm	0.0131 ppm
Concentration per Run 2	97.0801 ppm	4.1277 ppm	0.0041 ppm	18.9189 ppm	0.3477 ppm	0.7887 ppm	0.0118 ppm
Concentration per Run 3	97.6959 ppm	4.1111 ppm	0.0042 ppm	18.7123 ppm	0.3401 ppm	0.7728 ppm	0.0123 ppm
Concentration RSD	0.3 %	1.5 %	2.5 %	1.6 %	1.8 %	2.0 %	5.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0008 ppm	6.8283 ppm	0.0474 ppm	0.2700 ppm	8.0985 ppm	0.0061 ppm	0.4401 ppm
Concentration per Run 1	0.0018 ppm	6.9486 ppm	0.0482 ppm	0.2740 ppm	8.0863 ppm	0.0058 ppm	0.4410 ppm
Concentration per Run 2	0.0002 ppm	6.8377 ppm	0.0479 ppm	0.2684 ppm	8.1190 ppm	0.0056 ppm	0.4407 ppm
Concentration per Run 3	0.0003 ppm	6.6986 ppm	0.0461 ppm	0.2676 ppm	8.0901 ppm	0.0068 ppm	0.4387 ppm
Concentration RSD	115.6 %	1.8 %	2.4 %	1.3 %	0.2 %	10.1 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.0818 ppm	121.6756 %	125.0776 %	121.2479 %	111.8702 %	97.0508 %	107.3859 %
Concentration per Run 1	1.1008 ppm	120.1490 %	124.8978 %	121.8267 %	110.3313 %	97.0986 %	107.4740 %
Concentration per Run 2	1.0828 ppm	122.6713 %	125.2057 %	121.3201 %	112.4663 %	96.9859 %	107.2851 %
Concentration per Run 3	1.0618 ppm	122.2067 %	125.1292 %	120.5970 %	112.8129 %	97.0678 %	107.3987 %
Concentration RSD	1.8 %	1.1 %	0.1 %	0.5 %	1.2 %	0.1 %	0.1 %

ICP DataTrace 5

9/27/2024 11:23:24 AM

LabBook: WG1976666_09262024T5.imexp

Sample: CCV
Analysis started at: 9/27/2024 11:10:39 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5313 ppm	0.5477 ppm	0.5016 ppm	0.5121 ppm	0.5287 ppm	0.5140 ppm	0.5308 ppm
Concentration per Run 1	0.5300 ppm	0.5468 ppm	0.5024 ppm	0.5117 ppm	0.5162 ppm	0.5024 ppm	0.5276 ppm
Concentration per Run 2	0.5318 ppm	0.5439 ppm	0.5041 ppm	0.5143 ppm	0.5360 ppm	0.5210 ppm	0.5287 ppm
Concentration per Run 3	0.5321 ppm	0.5524 ppm	0.4984 ppm	0.5102 ppm	0.5338 ppm	0.5186 ppm	0.5361 ppm
Recovery Percentage 1	106.256 %	109.540 %	100.322 %	102.413 %	105.739 %	102.802 %	106.155 %
Concentration RSD	0.2 %	0.8 %	0.6 %	0.4 %	2.1 %	2.0 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5136 ppm	0.5260 ppm	0.5241 ppm	0.5132 ppm	0.6244 ppm	5.5192 ppm	0.5267 ppm
Concentration per Run 1	0.5138 ppm	0.5260 ppm	0.5237 ppm	0.5134 ppm	0.6389 ppm	5.3775 ppm	0.5161 ppm
Concentration per Run 2	0.5153 ppm	0.5279 ppm	0.5232 ppm	0.5126 ppm	0.6243 ppm	5.5752 ppm	0.5321 ppm
Concentration per Run 3	0.5117 ppm	0.5243 ppm	0.5254 ppm	0.5138 ppm	0.6101 ppm	5.6050 ppm	0.5320 ppm
Recovery Percentage 1	102.722 %	105.206 %	104.819 %	102.649 %	124.888 %	110.385 %	105.339 %
Concentration RSD	0.3 %	0.3 %	0.2 %	0.1 %	2.3 %	2.2 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5137 ppm	0.5202 ppm	0.5170 ppm	11.1873 ppm	0.5147 ppm	0.5113 ppm	0.5205 ppm
Concentration per Run 1	0.5150 ppm	0.5086 ppm	0.5128 ppm	11.0814 ppm	0.5148 ppm	0.5129 ppm	0.5194 ppm
Concentration per Run 2	0.5108 ppm	0.5272 ppm	0.5192 ppm	11.2807 ppm	0.5161 ppm	0.5130 ppm	0.5234 ppm
Concentration per Run 3	0.5153 ppm	0.5248 ppm	0.5191 ppm	11.1999 ppm	0.5131 ppm	0.5081 ppm	0.5187 ppm
Recovery Percentage 1	102.737 %	104.040 %	103.406 %	111.873 %	102.933 %	102.267 %	104.099 %
Concentration RSD	0.5 %	2.0 %	0.7 %	0.9 %	0.3 %	0.5 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5090 ppm	5.6739 ppm	0.4718 ppm	0.5052 ppm	0.5193 ppm	0.5217 ppm	0.5044 ppm
Concentration per Run 1	0.5110 ppm	5.6767 ppm	0.4729 ppm	0.4947 ppm	0.5194 ppm	0.5218 ppm	0.5045 ppm
Concentration per Run 2	0.5083 ppm	5.6938 ppm	0.4726 ppm	0.5116 ppm	0.5188 ppm	0.5239 ppm	0.5036 ppm
Concentration per Run 3	0.5078 ppm	5.6513 ppm	0.4698 ppm	0.5092 ppm	0.5198 ppm	0.5195 ppm	0.5052 ppm
Recovery Percentage 1	101.807 %	108.075 %	94.352 %	101.032 %	103.862 %	104.345 %	100.888 %
Concentration RSD	0.3 %	0.4 %	0.4 %	1.8 %	0.1 %	0.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5164 ppm	91.8579 %	96.4674 %	95.5513 %	102.8998 %	99.1870 %	101.4680 %
Concentration per Run 1	0.5168 ppm	93.2811 %	96.2698 %	95.6074 %	103.6125 %	99.1225 %	101.3367 %
Concentration per Run 2	0.5180 ppm	91.0798 %	96.4771 %	95.3972 %	102.2492 %	98.9897 %	101.5401 %
Concentration per Run 3	0.5143 ppm	91.2128 %	96.6553 %	95.6494 %	102.8377 %	99.4488 %	101.5272 %
Recovery Percentage 1	103.277 %						
Concentration RSD	0.4 %	1.3 %	0.2 %	0.1 %	0.7 %	0.2 %	0.1 %

LabBook: WG1976666_09262024T5.imexp

Sample: CCB
Analysis started at: 9/27/2024 11:16:42 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0020 ppm	-0.0008 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	-0.0045 ppm
Concentration per Run 1	0.0009 ppm	0.0086 ppm	-0.0022 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 2	0.0000 ppm	-0.0081 ppm	-0.0008 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	-0.0052 ppm
Concentration per Run 3	0.0002 ppm	0.0055 ppm	0.0007 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	-0.0094 ppm
Recovery Percentage 1	5.542 %	1.992 %	-15.276 %	4.352 %	0.494 %	-0.398 %	-4.533 %
Concentration RSD	112.8 %	446.6 %	188.6 %	6.3 %	156.2 %	70.1 %	114.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0003 ppm	-0.0004 ppm	0.0066 ppm	-0.1701 ppm	-0.0061 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0004 ppm	-0.0002 ppm	0.0062 ppm	-0.1790 ppm	-0.0051 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0007 ppm	0.0069 ppm	-0.1864 ppm	-0.0064 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0003 ppm	-0.0003 ppm	0.0067 ppm	-0.1450 ppm	-0.0069 ppm
Recovery Percentage 1	0.165 %	0.547 %	-2.678 %	-3.944 %	13.224 %	-6.805 %	-61.250 %
Concentration RSD	111.6 %	51.0 %	60.3 %	61.1 %	5.2 %	13.0 %	14.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0010 ppm	0.0003 ppm	0.0028 ppm	0.0061 ppm	0.0001 ppm	-0.0009 ppm	0.0014 ppm
Concentration per Run 1	-0.0013 ppm	0.0000 ppm	0.0032 ppm	0.0023 ppm	0.0003 ppm	-0.0005 ppm	0.0017 ppm
Concentration per Run 2	-0.0010 ppm	0.0006 ppm	0.0027 ppm	0.0118 ppm	0.0002 ppm	-0.0011 ppm	0.0016 ppm
Concentration per Run 3	-0.0007 ppm	0.0002 ppm	0.0025 ppm	0.0041 ppm	-0.0001 ppm	-0.0012 ppm	0.0010 ppm
Recovery Percentage 1	-0.985 %	2.901 %	5.649 %	0.304 %	0.559 %	-9.450 %	2.816 %
Concentration RSD	33.6 %	110.5 %	13.1 %	82.5 %	144.8 %	42.2 %	27.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0009 ppm	0.0028 ppm	0.0005 ppm	0.0000 ppm	0.0007 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 1	0.0007 ppm	0.0026 ppm	0.0007 ppm	-0.0001 ppm	0.0007 ppm	0.0014 ppm	0.0002 ppm
Concentration per Run 2	-0.0015 ppm	0.0029 ppm	0.0002 ppm	0.0002 ppm	0.0004 ppm	-0.0026 ppm	0.0002 ppm
Concentration per Run 3	-0.0017 ppm	0.0030 ppm	0.0006 ppm	0.0000 ppm	0.0009 ppm	0.0001 ppm	0.0001 ppm
Recovery Percentage 1	-8.582 %	0.564 %	0.944 %	0.213 %	6.560 %	-1.964 %	1.605 %
Concentration RSD	153.4 %	8.1 %	61.0 %	731.6 %	38.5 %	521.6 %	25.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	92.6646 %	98.5821 %	96.5071 %	96.8577 %	99.1070 %	100.7130 %
Concentration per Run 1	0.0001 ppm	90.6311 %	98.7750 %	96.4694 %	93.0596 %	98.9082 %	100.6992 %
Concentration per Run 2	0.0001 ppm	92.2224 %	98.7812 %	96.7820 %	96.3620 %	99.2014 %	100.9236 %
Concentration per Run 3	0.0001 ppm	95.1402 %	98.1901 %	96.2699 %	101.1513 %	99.2113 %	100.5162 %
Recovery Percentage 1	1.782 %						
Concentration RSD	18.6 %	2.5 %	0.3 %	0.3 %	4.2 %	0.2 %	0.2 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: Blank DHL Trace9
Analysis started at: 9/26/2024 7:04:24 AM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.2 %	0.3 %	3.1 %	-0.2 %	0.0 %	-1.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	1.8 %	1.1 %	-0.4 %	-0.1 %	0.5 %	-0.2 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.5 %	-0.3 %	2.4 %	-4.9 %	0.3 %	-0.4 %	-1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.5 %	0.0 %	0.4 %	-0.9 %	-0.1 %	3.6 %	-0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	1.6 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: ICAL
Analysis started at: 9/26/2024 7:08:36 AM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9996 ppm	24.8629 ppm	1.0000 ppm	1.0026 ppm	0.9944 ppm	0.9919 ppm	9.9904 ppm
Concentration per Run 2	0.9972 ppm	25.2110 ppm	1.0035 ppm	0.9958 ppm	1.0025 ppm	1.0068 ppm	10.0234 ppm
Concentration per Run 3	1.0032 ppm	24.9261 ppm	0.9965 ppm	1.0017 ppm	1.0031 ppm	1.0012 ppm	9.9861 ppm
Concentration RSD	0.3 %	0.7 %	0.3 %	0.4 %	0.5 %	0.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9987 ppm	0.9984 ppm	0.9972 ppm	1.0000 ppm	24.8872 ppm	34.8758 ppm	0.9947 ppm
Concentration per Run 2	1.0037 ppm	1.0018 ppm	0.9963 ppm	0.9992 ppm	25.1103 ppm	34.9675 ppm	0.9960 ppm
Concentration per Run 3	0.9977 ppm	0.9998 ppm	1.0065 ppm	1.0008 ppm	25.0025 ppm	35.1566 ppm	1.0093 ppm
Concentration RSD	0.3 %	0.2 %	0.6 %	0.1 %	0.4 %	0.4 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0301 ppm	1.0003 ppm	0.9904 ppm	24.9381 ppm	0.9964 ppm	1.0004 ppm	1.0042 ppm
Concentration per Run 2	9.9554 ppm	0.9967 ppm	0.9992 ppm	25.1750 ppm	0.9945 ppm	1.0033 ppm	0.9979 ppm
Concentration per Run 3	10.0146 ppm	1.0030 ppm	1.0103 ppm	24.8868 ppm	1.0091 ppm	0.9962 ppm	0.9979 ppm
Concentration RSD	0.4 %	0.3 %	1.0 %	0.6 %	0.8 %	0.4 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0014 ppm	9.9484 ppm	0.9997 ppm	0.9966 ppm	1.0030 ppm	1.0001 ppm	0.9986 ppm
Concentration per Run 2	0.9939 ppm	10.0059 ppm	0.9954 ppm	0.9979 ppm	0.9972 ppm	1.0044 ppm	1.0001 ppm
Concentration per Run 3	1.0047 ppm	10.0457 ppm	1.0049 ppm	1.0055 ppm	0.9997 ppm	0.9956 ppm	1.0013 ppm
Concentration RSD	0.6 %	0.5 %	0.5 %	0.5 %	0.3 %	0.4 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	106.2629 %	104.5839 %	102.7417 %	103.7711 %	103.0173 %	103.9007 %
Concentration per Run 1	0.9988 ppm	106.0917 %	104.8585 %	102.7536 %	103.7386 %	103.1256 %	104.0750 %
Concentration per Run 2	0.9982 ppm	106.6115 %	104.3153 %	102.6107 %	103.9930 %	103.1750 %	103.6756 %
Concentration per Run 3	1.0030 ppm	106.0855 %	104.5780 %	102.8608 %	103.5816 %	102.7514 %	103.9517 %
Concentration RSD	0.3 %	0.3 %	0.3 %	0.1 %	0.2 %	0.2 %	0.2 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: ICV
Analysis started at: 9/26/2024 7:12:28 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5088 ppm	0.4830 ppm	0.4884 ppm	0.4967 ppm	0.4963 ppm	0.5127 ppm	0.4916 ppm
Concentration per Run 1	0.5068 ppm	0.4899 ppm	0.4878 ppm	0.4938 ppm	0.4940 ppm	0.5122 ppm	0.4890 ppm
Concentration per Run 2	0.5098 ppm	0.4885 ppm	0.4869 ppm	0.5009 ppm	0.4966 ppm	0.5121 ppm	0.4955 ppm
Concentration per Run 3	0.5098 ppm	0.4706 ppm	0.4904 ppm	0.4954 ppm	0.4982 ppm	0.5137 ppm	0.4904 ppm
Recovery Percentage 1	101.762 %	96.605 %	97.670 %	99.344 %	99.258 %	102.541 %	98.325 %
Concentration RSD	0.3 %	2.2 %	0.4 %	0.7 %	0.4 %	0.2 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5045 ppm	0.5136 ppm	0.4984 ppm	0.4977 ppm	0.5050 ppm	5.1552 ppm	0.4845 ppm
Concentration per Run 1	0.5082 ppm	0.5135 ppm	0.4953 ppm	0.4953 ppm	0.5063 ppm	5.1588 ppm	0.4844 ppm
Concentration per Run 2	0.5038 ppm	0.5153 ppm	0.5005 ppm	0.4999 ppm	0.5044 ppm	5.1500 ppm	0.4852 ppm
Concentration per Run 3	0.5015 ppm	0.5121 ppm	0.4996 ppm	0.4979 ppm	0.5044 ppm	5.1567 ppm	0.4840 ppm
Recovery Percentage 1	100.900 %	102.725 %	99.690 %	99.543 %	101.009 %	103.103 %	96.906 %
Concentration RSD	0.7 %	0.3 %	0.6 %	0.5 %	0.2 %	0.1 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4933 ppm	0.4918 ppm	0.5013 ppm	9.9481 ppm	0.5132 ppm	0.5078 ppm	0.5170 ppm
Concentration per Run 1	0.4909 ppm	0.4922 ppm	0.4986 ppm	9.9538 ppm	0.5096 ppm	0.5064 ppm	0.5160 ppm
Concentration per Run 2	0.4949 ppm	0.4910 ppm	0.5007 ppm	9.9536 ppm	0.5157 ppm	0.5078 ppm	0.5190 ppm
Concentration per Run 3	0.4942 ppm	0.4923 ppm	0.5047 ppm	9.9370 ppm	0.5143 ppm	0.5090 ppm	0.5161 ppm
Recovery Percentage 1	98.669 %	98.364 %	100.268 %	99.481 %	102.645 %	101.552 %	103.409 %
Concentration RSD	0.4 %	0.1 %	0.6 %	0.1 %	0.6 %	0.3 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4984 ppm	5.4662 ppm	0.4906 ppm	0.4774 ppm	0.5075 ppm	0.5073 ppm	0.4953 ppm
Concentration per Run 1	0.4916 ppm	5.4386 ppm	0.4879 ppm	0.4768 ppm	0.5062 ppm	0.5060 ppm	0.4934 ppm
Concentration per Run 2	0.5035 ppm	5.4805 ppm	0.4954 ppm	0.4772 ppm	0.5073 ppm	0.5079 ppm	0.4963 ppm
Concentration per Run 3	0.5000 ppm	5.4795 ppm	0.4885 ppm	0.4782 ppm	0.5089 ppm	0.5081 ppm	0.4963 ppm
Recovery Percentage 1	99.670 %	104.118 %	98.123 %	95.481 %	101.494 %	101.466 %	99.068 %
Concentration RSD	1.2 %	0.4 %	0.8 %	0.1 %	0.3 %	0.2 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5139 ppm	107.1520 %	105.5862 %	106.0180 %	105.4815 %	104.1506 %	105.7664 %
Concentration per Run 1	0.5112 ppm	107.3497 %	105.9600 %	107.1530 %	105.4183 %	104.9468 %	106.7082 %
Concentration per Run 2	0.5166 ppm	107.4144 %	105.6792 %	105.5447 %	105.9334 %	104.3165 %	105.2368 %
Concentration per Run 3	0.5139 ppm	106.6918 %	105.1195 %	105.3563 %	105.0927 %	103.1887 %	105.3543 %
Recovery Percentage 1	102.784 %						
Concentration RSD	0.5 %	0.4 %	0.4 %	0.9 %	0.4 %	0.9 %	0.8 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: ICB
Analysis started at: 9/26/2024 7:16:21 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0058 ppm	0.0008 ppm	0.0022 ppm	0.0003 ppm	0.0000 ppm	0.0058 ppm
Concentration per Run 1	-0.0005 ppm	-0.0094 ppm	0.0009 ppm	0.0031 ppm	0.0002 ppm	0.0000 ppm	0.0065 ppm
Concentration per Run 2	0.0006 ppm	0.0018 ppm	0.0010 ppm	0.0031 ppm	0.0004 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 3	0.0000 ppm	-0.0100 ppm	0.0005 ppm	0.0005 ppm	0.0003 ppm	0.0001 ppm	0.0073 ppm
Recovery Percentage 1	0.138 %	-5.847 %	16.138 %	7.480 %	3.139 %	0.875 %	5.816 %
Concentration RSD	5,696.2 %	113.3 %	30.4 %	66.4 %	37.8 %	74.8 %	34.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0004 ppm	-0.0056 ppm	0.0000 ppm
Concentration per Run 1	0.0004 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0005 ppm	-0.0403 ppm	-0.0010 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0145 ppm	0.0008 ppm
Concentration per Run 3	-0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0008 ppm	0.0002 ppm	0.0089 ppm	0.0004 ppm
Recovery Percentage 1	2.267 %	-0.555 %	1.871 %	2.058 %	0.780 %	-0.225 %	0.759 %
Concentration RSD	216.0 %	384.8 %	52.9 %	243.6 %	39.0 %	534.6 %	2,523.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0014 ppm	0.0000 ppm	0.0015 ppm	-0.0094 ppm	0.0004 ppm	0.0003 ppm	0.0037 ppm
Concentration per Run 1	-0.0022 ppm	-0.0001 ppm	0.0020 ppm	-0.0080 ppm	0.0007 ppm	0.0003 ppm	0.0090 ppm
Concentration per Run 2	0.0040 ppm	0.0001 ppm	0.0015 ppm	-0.0106 ppm	-0.0005 ppm	-0.0004 ppm	0.0014 ppm
Concentration per Run 3	0.0024 ppm	-0.0001 ppm	0.0011 ppm	-0.0096 ppm	0.0008 ppm	0.0010 ppm	0.0007 ppm
Recovery Percentage 1	1.409 %	-0.444 %	3.000 %	-0.470 %	1.402 %	3.194 %	7.420 %
Concentration RSD	229.3 %	281.9 %	30.1 %	14.2 %	198.6 %	220.9 %	123.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0046 ppm	-0.0026 ppm	-0.0006 ppm	0.0001 ppm	-0.0003 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 1	0.0038 ppm	-0.0017 ppm	-0.0008 ppm	0.0001 ppm	-0.0002 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 2	0.0054 ppm	-0.0014 ppm	-0.0004 ppm	0.0002 ppm	-0.0003 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 3	0.0047 ppm	-0.0048 ppm	-0.0006 ppm	0.0000 ppm	-0.0004 ppm	0.0010 ppm	0.0003 ppm
Recovery Percentage 1	46.462 %	-0.524 %	-1.206 %	0.798 %	-3.101 %	2.927 %	2.439 %
Concentration RSD	16.8 %	70.8 %	30.7 %	152.4 %	35.4 %	148.2 %	45.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	104.5991 %	100.8712 %	104.1700 %	105.0235 %	100.8108 %	104.6345 %
Concentration per Run 1	0.0002 ppm	104.7381 %	100.5299 %	104.7311 %	104.8379 %	100.9509 %	105.2474 %
Concentration per Run 2	0.0001 ppm	104.1767 %	101.0022 %	103.5604 %	104.6964 %	100.5595 %	104.0982 %
Concentration per Run 3	0.0002 ppm	104.8825 %	101.0816 %	104.2184 %	105.5362 %	100.9220 %	104.5577 %
Recovery Percentage 1	3.531 %						
Concentration RSD	21.3 %	0.4 %	0.3 %	0.6 %	0.4 %	0.2 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: ICV
Analysis started at: 9/26/2024 7:24:02 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5121 ppm	0.4945 ppm	0.4892 ppm	0.4980 ppm	0.5078 ppm	0.5204 ppm	0.5009 ppm
Concentration per Run 1	0.5084 ppm	0.5004 ppm	0.4831 ppm	0.4956 ppm	0.5070 ppm	0.5205 ppm	0.5018 ppm
Concentration per Run 2	0.5138 ppm	0.4930 ppm	0.4940 ppm	0.5000 ppm	0.5071 ppm	0.5194 ppm	0.5066 ppm
Concentration per Run 3	0.5141 ppm	0.4900 ppm	0.4904 ppm	0.4985 ppm	0.5093 ppm	0.5213 ppm	0.4945 ppm
Recovery Percentage 1	102.418 %	98.893 %	97.835 %	99.605 %	101.560 %	104.080 %	100.190 %
Concentration RSD	0.6 %	1.1 %	1.1 %	0.4 %	0.3 %	0.2 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4992 ppm	0.5085 ppm	0.4924 ppm	0.4932 ppm	0.5123 ppm	5.2879 ppm	0.4982 ppm
Concentration per Run 1	0.4958 ppm	0.5054 ppm	0.4887 ppm	0.4921 ppm	0.5116 ppm	5.3099 ppm	0.4971 ppm
Concentration per Run 2	0.5025 ppm	0.5113 ppm	0.4957 ppm	0.4925 ppm	0.5107 ppm	5.2826 ppm	0.4982 ppm
Concentration per Run 3	0.4992 ppm	0.5088 ppm	0.4929 ppm	0.4951 ppm	0.5146 ppm	5.2712 ppm	0.4994 ppm
Recovery Percentage 1	99.832 %	101.696 %	98.483 %	98.642 %	102.460 %	105.758 %	99.645 %
Concentration RSD	0.7 %	0.6 %	0.7 %	0.3 %	0.4 %	0.4 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4888 ppm	0.4991 ppm	0.4901 ppm	10.2188 ppm	0.5094 ppm	0.5050 ppm	0.5090 ppm
Concentration per Run 1	0.4857 ppm	0.5008 ppm	0.4828 ppm	10.2006 ppm	0.5052 ppm	0.4999 ppm	0.5064 ppm
Concentration per Run 2	0.4886 ppm	0.4986 ppm	0.4927 ppm	10.2125 ppm	0.5139 ppm	0.5057 ppm	0.5083 ppm
Concentration per Run 3	0.4922 ppm	0.4978 ppm	0.4948 ppm	10.2432 ppm	0.5090 ppm	0.5094 ppm	0.5122 ppm
Recovery Percentage 1	97.767 %	99.816 %	98.014 %	102.188 %	101.871 %	100.998 %	101.798 %
Concentration RSD	0.7 %	0.3 %	1.3 %	0.2 %	0.9 %	1.0 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5068 ppm	5.3846 ppm	0.4764 ppm	0.4810 ppm	0.5009 ppm	0.5044 ppm	0.4887 ppm
Concentration per Run 1	0.5012 ppm	5.3422 ppm	0.4719 ppm	0.4802 ppm	0.4967 ppm	0.5017 ppm	0.4860 ppm
Concentration per Run 2	0.5093 ppm	5.4028 ppm	0.4803 ppm	0.4803 ppm	0.5040 ppm	0.5025 ppm	0.4895 ppm
Concentration per Run 3	0.5100 ppm	5.4088 ppm	0.4771 ppm	0.4827 ppm	0.5022 ppm	0.5091 ppm	0.4906 ppm
Recovery Percentage 1	101.363 %	102.563 %	95.288 %	96.209 %	100.188 %	100.886 %	97.743 %
Concentration RSD	1.0 %	0.7 %	0.9 %	0.3 %	0.8 %	0.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5092 ppm	107.6880 %	103.5091 %	104.8901 %	105.9280 %	102.3784 %	104.6241 %
Concentration per Run 1	0.5050 ppm	108.5024 %	104.2327 %	105.5054 %	106.5780 %	103.0382 %	105.2435 %
Concentration per Run 2	0.5153 ppm	106.2734 %	103.2941 %	103.7692 %	104.4028 %	102.0206 %	103.8941 %
Concentration per Run 3	0.5074 ppm	108.2882 %	103.0005 %	105.3956 %	106.8033 %	102.0765 %	104.7347 %
Recovery Percentage 1	101.845 %						
Concentration RSD	1.1 %	1.1 %	0.6 %	0.9 %	1.3 %	0.6 %	0.7 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: ICB
Analysis started at: 9/26/2024 7:28:01 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0013 ppm	-0.0013 ppm	0.0025 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 1	-0.0002 ppm	-0.0015 ppm	-0.0007 ppm	0.0024 ppm	0.0001 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 2	-0.0003 ppm	0.0032 ppm	-0.0003 ppm	0.0040 ppm	0.0001 ppm	0.0001 ppm	-0.0035 ppm
Concentration per Run 3	-0.0001 ppm	-0.0055 ppm	-0.0029 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0036 ppm
Recovery Percentage 1	-3.273 %	-1.273 %	-25.900 %	8.197 %	1.367 %	1.332 %	0.607 %
Concentration RSD	44.6 %	345.6 %	111.5 %	62.4 %	2.1 %	69.6 %	604.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0002 ppm	-0.0012 ppm	0.0019 ppm	0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0002 ppm	-0.0011 ppm	-0.0132 ppm	0.0011 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	0.0003 ppm	0.0004 ppm	-0.0017 ppm	0.0273 ppm	0.0011 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0008 ppm	0.0001 ppm	-0.0007 ppm	-0.0084 ppm	0.0004 ppm
Recovery Percentage 1	0.557 %	2.074 %	2.656 %	2.392 %	-2.344 %	0.077 %	17.194 %
Concentration RSD	292.5 %	62.1 %	225.2 %	54.9 %	45.2 %	1,154.2 %	48.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0003 ppm	-0.0001 ppm	0.0021 ppm	-0.0061 ppm	0.0001 ppm	0.0007 ppm	0.0036 ppm
Concentration per Run 1	-0.0005 ppm	-0.0001 ppm	0.0021 ppm	-0.0041 ppm	-0.0001 ppm	0.0011 ppm	0.0043 ppm
Concentration per Run 2	0.0013 ppm	0.0000 ppm	0.0020 ppm	-0.0095 ppm	0.0001 ppm	0.0010 ppm	-0.0004 ppm
Concentration per Run 3	0.0002 ppm	-0.0003 ppm	0.0022 ppm	-0.0048 ppm	0.0004 ppm	0.0000 ppm	0.0070 ppm
Recovery Percentage 1	0.317 %	-1.259 %	4.173 %	-0.305 %	0.537 %	6.908 %	7.254 %
Concentration RSD	297.1 %	130.7 %	4.5 %	48.2 %	177.6 %	92.8 %	103.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0049 ppm	-0.0044 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 1	0.0045 ppm	-0.0041 ppm	-0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0018 ppm	0.0003 ppm
Concentration per Run 2	0.0044 ppm	-0.0062 ppm	-0.0003 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	0.0059 ppm	-0.0030 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0012 ppm	0.0003 ppm
Recovery Percentage 1	49.317 %	-0.887 %	-0.585 %	0.015 %	-1.416 %	0.884 %	2.663 %
Concentration RSD	16.5 %	36.7 %	37.6 %	2,846.3 %	69.2 %	848.2 %	5.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	104.1705 %	100.0850 %	103.9049 %	104.1445 %	99.7805 %	104.3322 %
Concentration per Run 1	-0.0001 ppm	103.9094 %	100.6245 %	103.6523 %	104.0858 %	100.1215 %	104.1756 %
Concentration per Run 2	0.0000 ppm	104.5376 %	99.7426 %	103.7599 %	104.3857 %	99.4591 %	104.1358 %
Concentration per Run 3	0.0002 ppm	104.0646 %	99.8878 %	104.3025 %	103.9619 %	99.7611 %	104.6853 %
Recovery Percentage 1	0.711 %						
Concentration RSD	398.2 %	0.3 %	0.5 %	0.3 %	0.2 %	0.3 %	0.3 %

LabBook: WG1976462_09262024T9.imexp

Sample:	No sample
Analysis started at:	9/26/2024 7:31:54 AM
Rack	0
Vial	5
Comment	<Comment>

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: ICSA
Analysis started at: 9/26/2024 7:35:49 AM
Rack 0
Vial 6
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0022 ppm	491.9671 ppm	0.0013 ppm	-0.0051 ppm	0.0015 ppm	0.0001 ppm	**535.5714 ppm**
Concentration per Run 1	0.0022 ppm	491.7981 ppm	0.0031 ppm	-0.0041 ppm	0.0016 ppm	0.0002 ppm	535.4333 ppm
Concentration per Run 2	0.0021 ppm	491.6503 ppm	0.0002 ppm	-0.0066 ppm	0.0014 ppm	0.0001 ppm	535.3984 ppm
Concentration per Run 3	0.0023 ppm	492.4529 ppm	0.0004 ppm	-0.0047 ppm	0.0016 ppm	0.0001 ppm	535.8825 ppm
Recovery Percentage 1	31.772 %		25.198 %	-17.112 %	15.474 %	2.811 %	
Concentration RSD	4.2 %	0.1 %	130.0 %	25.4 %	7.5 %	43.0 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0007 ppm	-0.0006 ppm	0.0008 ppm	0.0002 ppm	178.1769 ppm	-0.0033 ppm	-0.0008 ppm
Concentration per Run 1	-0.0008 ppm	-0.0012 ppm	0.0010 ppm	-0.0008 ppm	177.3928 ppm	0.0214 ppm	0.0003 ppm
Concentration per Run 2	-0.0006 ppm	-0.0001 ppm	0.0005 ppm	-0.0009 ppm	178.2367 ppm	-0.0112 ppm	-0.0017 ppm
Concentration per Run 3	-0.0007 ppm	-0.0006 ppm	0.0008 ppm	0.0022 ppm	178.9010 ppm	-0.0202 ppm	-0.0010 ppm
Recovery Percentage 1	-13.813 %	-3.191 %	7.616 %	1.897 %		-0.133 %	-16.012 %
Concentration RSD	14.7 %	84.1 %	28.4 %	919.2 %	0.4 %	659.9 %	126.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	459.8936 ppm	-0.0006 ppm	-0.0017 ppm	0.0127 ppm	-0.0001 ppm	-0.0001 ppm	-0.0121 ppm
Concentration per Run 1	458.5928 ppm	-0.0006 ppm	-0.0027 ppm	0.0134 ppm	-0.0012 ppm	0.0006 ppm	-0.0079 ppm
Concentration per Run 2	459.4353 ppm	-0.0005 ppm	-0.0010 ppm	0.0107 ppm	0.0010 ppm	-0.0002 ppm	-0.0156 ppm
Concentration per Run 3	461.6526 ppm	-0.0007 ppm	-0.0013 ppm	0.0140 ppm	-0.0002 ppm	-0.0006 ppm	-0.0128 ppm
Recovery Percentage 1		-6.069 %	-3.312 %	0.636 %	-0.562 %	-0.960 %	-24.160 %
Concentration RSD	0.3 %	13.4 %	55.9 %	13.9 %	806.1 %	630.6 %	32.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	0.0052 ppm	0.0000 ppm	-0.0006 ppm	0.0005 ppm	0.0041 ppm	0.0017 ppm
Concentration per Run 1	0.0043 ppm	0.0070 ppm	0.0000 ppm	-0.0006 ppm	0.0002 ppm	0.0051 ppm	0.0021 ppm
Concentration per Run 2	-0.0029 ppm	0.0022 ppm	0.0004 ppm	-0.0006 ppm	0.0010 ppm	0.0023 ppm	0.0018 ppm
Concentration per Run 3	0.0057 ppm	0.0064 ppm	-0.0006 ppm	-0.0006 ppm	0.0005 ppm	0.0048 ppm	0.0011 ppm
Recovery Percentage 1	23.392 %	1.042 %	-0.083 %	-5.908 %	5.484 %	20.310 %	16.873 %
Concentration RSD	196.5 %	49.9 %	1,210.9 %	3.8 %	80.5 %	38.6 %	29.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	96.5167 %	103.3287 %	83.4522 %	94.3593 %	102.6297 %	94.3963 %
Concentration per Run 1	0.0000 ppm	95.9318 %	103.4427 %	83.9883 %	93.6318 %	103.3508 %	94.7720 %
Concentration per Run 2	0.0002 ppm	96.7989 %	103.1629 %	82.8533 %	94.6526 %	102.2208 %	93.5531 %
Concentration per Run 3	0.0003 ppm	96.8194 %	103.3806 %	83.5149 %	94.7935 %	102.3175 %	94.8639 %
Recovery Percentage 1	2.723 %						
Concentration RSD	107.2 %	0.5 %	0.1 %	0.7 %	0.7 %	0.6 %	0.8 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: SIC Multi
Analysis started at: 9/26/2024 8:13:48 AM
Rack 0
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0187 ppm	-0.0037 ppm	0.0097 ppm	0.0004 ppm	-0.0002 ppm	0.0134 ppm
Concentration per Run 1	-0.0005 ppm	0.0281 ppm	-0.0022 ppm	0.0111 ppm	0.0005 ppm	-0.0003 ppm	0.0178 ppm
Concentration per Run 2	0.0001 ppm	0.0156 ppm	-0.0040 ppm	0.0097 ppm	0.0004 ppm	0.0001 ppm	0.0120 ppm
Concentration per Run 3	-0.0001 ppm	0.0125 ppm	-0.0048 ppm	0.0084 ppm	0.0004 ppm	-0.0004 ppm	0.0105 ppm
Recovery Percentage 1	-2.119 %	18.724 %	-73.603 %	32.480 %	4.387 %	-5.533 %	13.439 %
Concentration RSD	192.2 %	44.2 %	35.4 %	13.6 %	19.2 %	109.3 %	28.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0053 ppm	**20.1424 ppm**	-0.0026 ppm	0.0059 ppm	0.0199 ppm	-0.0009 ppm
Concentration per Run 1	-0.0004 ppm	-0.0065 ppm	20.1951 ppm	-0.0025 ppm	0.0050 ppm	-0.0001 ppm	-0.0010 ppm
Concentration per Run 2	-0.0004 ppm	-0.0040 ppm	20.1111 ppm	-0.0027 ppm	0.0069 ppm	0.0442 ppm	-0.0007 ppm
Concentration per Run 3	-0.0004 ppm	-0.0053 ppm	20.1209 ppm	-0.0027 ppm	0.0059 ppm	0.0158 ppm	-0.0009 ppm
Recovery Percentage 1	-7.462 %	-26.401 %	201,423.798 %	-26.213 %	11.857 %	0.797 %	-17.203 %
Concentration RSD	7.3 %	24.2 %	**0.2 %**	5.2 %	16.3 %	112.6 %	15.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0093 ppm	**20.0570 ppm**	-0.0013 ppm	0.0013 ppm	0.0003 ppm	0.0005 ppm	-0.0124 ppm
Concentration per Run 1	-0.0110 ppm	20.0217 ppm	-0.0013 ppm	0.0088 ppm	0.0007 ppm	0.0008 ppm	-0.0171 ppm
Concentration per Run 2	-0.0069 ppm	20.0619 ppm	-0.0016 ppm	-0.0039 ppm	0.0009 ppm	0.0004 ppm	-0.0074 ppm
Concentration per Run 3	-0.0100 ppm	20.0873 ppm	-0.0012 ppm	-0.0010 ppm	-0.0009 ppm	0.0004 ppm	-0.0127 ppm
Recovery Percentage 1	-9.295 %	200,569.730 %	-2.668 %	0.066 %	1.086 %	5.471 %	-24.775 %
Concentration RSD	22.7 %	**0.2 %**	14.3 %	506.5 %	361.0 %	43.5 %	39.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	**0.0075 ppm**	**0.3281 ppm**	0.0043 ppm	0.0000 ppm	**19.8269 ppm**	0.0048 ppm	**9.9895 ppm**
Concentration per Run 1	0.0071 ppm	0.2952 ppm	0.0049 ppm	0.0002 ppm	19.8451 ppm	0.0022 ppm	9.9687 ppm
Concentration per Run 2	0.0091 ppm	0.3415 ppm	0.0045 ppm	0.0000 ppm	19.8033 ppm	0.0052 ppm	10.0026 ppm
Concentration per Run 3	0.0064 ppm	0.3475 ppm	0.0035 ppm	-0.0001 ppm	19.8324 ppm	0.0069 ppm	9.9972 ppm
Recovery Percentage 1	75.343 %	65.621 %	8.624 %	0.350 %	198,269.086 %	23.871 %	99,895.009 %
Concentration RSD	**18.9 %**	**8.7 %**	17.3 %	363.6 %	**0.1 %**	49.8 %	**0.2 %**

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0013 ppm	108.3066 %	106.4973 %	118.9209 %	106.6470 %	105.4615 %	108.0819 %
Concentration per Run 1	-0.0013 ppm	107.4193 %	106.5204 %	119.2929 %	105.5421 %	105.8396 %	108.5626 %
Concentration per Run 2	-0.0016 ppm	108.8305 %	105.9854 %	117.7880 %	107.4521 %	104.7392 %	106.9279 %
Concentration per Run 3	-0.0010 ppm	108.6701 %	106.9862 %	119.6820 %	106.9468 %	105.8057 %	108.7552 %
Recovery Percentage 1	-26.541 %						
Concentration RSD	23.1 %	0.7 %	0.5 %	0.8 %	0.9 %	0.6 %	0.9 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: LDR Check
Analysis started at: 9/26/2024 8:17:50 AM
Rack 0
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0032 ppm	0.0126 ppm	22.1306 ppm	23.4068 ppm	18.7393 ppm	4.7899 ppm	0.0498 ppm
Concentration per Run 1	0.0027 ppm	0.0126 ppm	22.2173 ppm	23.3940 ppm	18.7292 ppm	4.7861 ppm	0.0483 ppm
Concentration per Run 2	0.0038 ppm	0.0204 ppm	22.0538 ppm	23.2705 ppm	18.7772 ppm	4.7890 ppm	0.0517 ppm
Concentration per Run 3	0.0031 ppm	0.0047 ppm	22.1208 ppm	23.5557 ppm	18.7116 ppm	4.7947 ppm	0.0494 ppm
Recovery Percentage 1			110.653 %	117.034 %	93.697 %		
Concentration RSD	16.9 %	62.1 %	0.4 %	0.6 %	0.2 %	0.1 %	3.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	4.7579 ppm	4.8075 ppm	0.0012 ppm	18.5036 ppm	0.0082 ppm	500.3943 ppm	18.0126 ppm
Concentration per Run 1	4.7953 ppm	4.8242 ppm	0.0017 ppm	18.5431 ppm	0.0065 ppm	496.9400 ppm	17.9463 ppm
Concentration per Run 2	4.6867 ppm	4.7767 ppm	0.0007 ppm	18.4611 ppm	0.0103 ppm	502.8440 ppm	18.0748 ppm
Concentration per Run 3	4.7917 ppm	4.8215 ppm	0.0013 ppm	18.5065 ppm	0.0078 ppm	501.3988 ppm	18.0166 ppm
Recovery Percentage 1	95.158 %	96.149 %		92.518 %		100.079 %	90.063 %
Concentration RSD	1.3 %	0.6 %	44.8 %	0.2 %	23.1 %	0.6 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0027 ppm	0.0005 ppm	4.9302 ppm	455.1786 ppm	9.3650 ppm	49.6230 ppm	4.8367 ppm
Concentration per Run 1	-0.0031 ppm	0.0004 ppm	4.8823 ppm	453.2936 ppm	9.3735 ppm	49.6476 ppm	4.8379 ppm
Concentration per Run 2	-0.0037 ppm	0.0005 ppm	4.9281 ppm	456.0394 ppm	9.3235 ppm	49.5592 ppm	4.8280 ppm
Concentration per Run 3	-0.0013 ppm	0.0006 ppm	4.9800 ppm	456.2029 ppm	9.3980 ppm	49.6624 ppm	4.8442 ppm
Recovery Percentage 1		0.000 %	98.603 %	91.036 %	93.650 %	99.246 %	96.734 %
Concentration RSD	45.6 %	18.4 %	1.0 %	0.4 %	0.4 %	0.1 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	5.0242 ppm	20.2472 ppm	9.4021 ppm	4.6008 ppm	0.0184 ppm	4.6540 ppm	0.0016 ppm
Concentration per Run 1	5.0403 ppm	20.2028 ppm	9.3843 ppm	4.6064 ppm	0.0210 ppm	4.6732 ppm	0.0019 ppm
Concentration per Run 2	5.0071 ppm	20.1625 ppm	9.3930 ppm	4.6041 ppm	0.0183 ppm	4.6425 ppm	0.0016 ppm
Concentration per Run 3	5.0252 ppm	20.3762 ppm	9.4291 ppm	4.5919 ppm	0.0160 ppm	4.6462 ppm	0.0012 ppm
Recovery Percentage 1	100.485 %	101.236 %	94.021 %	92.016 %	0.000 %	93.080 %	0.000 %
Concentration RSD	0.3 %	0.6 %	0.3 %	0.2 %	13.5 %	0.4 %	19.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	19.2952 ppm	100.3740 %	105.2209 %	90.4160 %	98.4104 %	103.3974 %	94.6140 %
Concentration per Run 1	19.2556 ppm	101.0247 %	105.4263 %	89.6495 %	98.9654 %	103.4527 %	94.2382 %
Concentration per Run 2	19.2993 ppm	100.4466 %	104.8850 %	90.7292 %	98.6236 %	102.8526 %	94.3971 %
Concentration per Run 3	19.3306 ppm	99.6505 %	105.3514 %	90.8694 %	97.6421 %	103.8868 %	95.2067 %
Recovery Percentage 1	96.476 %						
Concentration RSD	0.2 %	0.7 %	0.3 %	0.7 %	0.7 %	0.5 %	0.5 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: LLOQ
Analysis started at: 9/26/2024 8:27:05 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0054 ppm	0.0921 ppm	**0.0147 ppm**	**0.0380 ppm**	0.0100 ppm	0.0050 ppm	0.0989 ppm
Concentration per Run 1	0.0053 ppm	0.0946 ppm	0.0134 ppm	0.0400 ppm	0.0102 ppm	0.0050 ppm	0.0964 ppm
Concentration per Run 2	0.0056 ppm	0.0933 ppm	0.0153 ppm	0.0374 ppm	0.0099 ppm	0.0049 ppm	0.1027 ppm
Concentration per Run 3	0.0054 ppm	0.0884 ppm	0.0154 ppm	0.0367 ppm	0.0100 ppm	0.0050 ppm	0.0977 ppm
Recovery Percentage 1	108.473 %	92.063 %	293.315 %	126.701 %	100.207 %	99.638 %	98.923 %
Concentration RSD	3.4 %	3.6 %	**7.6 %**	**4.6 %**	1.9 %	1.0 %	3.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0040 ppm	0.0207 ppm	0.0098 ppm	0.0099 ppm	0.0486 ppm	2.6004 ppm	0.0108 ppm
Concentration per Run 1	0.0039 ppm	0.0210 ppm	0.0097 ppm	0.0097 ppm	0.0477 ppm	2.6046 ppm	0.0119 ppm
Concentration per Run 2	0.0041 ppm	0.0208 ppm	0.0097 ppm	0.0096 ppm	0.0495 ppm	2.5835 ppm	0.0097 ppm
Concentration per Run 3	0.0040 ppm	0.0204 ppm	0.0098 ppm	0.0103 ppm	0.0486 ppm	2.6132 ppm	0.0109 ppm
Recovery Percentage 1	100.859 %	103.693 %	97.546 %	98.873 %	97.243 %	104.017 %	108.325 %
Concentration RSD	2.6 %	1.5 %	0.9 %	4.1 %	1.8 %	0.6 %	10.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0985 ppm	0.0101 ppm	0.0532 ppm	2.0078 ppm	0.0201 ppm	0.0111 ppm	**0.0651 ppm**
Concentration per Run 1	0.0951 ppm	0.0099 ppm	0.0525 ppm	2.0120 ppm	0.0219 ppm	0.0119 ppm	0.0645 ppm
Concentration per Run 2	0.0980 ppm	0.0098 ppm	0.0532 ppm	2.0107 ppm	0.0193 ppm	0.0112 ppm	0.0613 ppm
Concentration per Run 3	0.1023 ppm	0.0105 ppm	0.0539 ppm	2.0008 ppm	0.0190 ppm	0.0103 ppm	0.0694 ppm
Recovery Percentage 1	98.453 %	100.594 %	106.364 %	100.391 %	100.270 %	111.248 %	130.190 %
Concentration RSD	3.7 %	3.9 %	1.3 %	0.3 %	8.0 %	7.2 %	**6.2 %**

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0108 ppm	0.5122 ppm	0.0516 ppm	0.0096 ppm	0.0497 ppm	0.0195 ppm	0.0100 ppm
Concentration per Run 1	0.0111 ppm	0.5134 ppm	0.0505 ppm	0.0095 ppm	0.0499 ppm	0.0201 ppm	0.0098 ppm
Concentration per Run 2	0.0102 ppm	0.5101 ppm	0.0535 ppm	0.0097 ppm	0.0491 ppm	0.0191 ppm	0.0098 ppm
Concentration per Run 3	0.0111 ppm	0.5131 ppm	0.0507 ppm	0.0095 ppm	0.0500 ppm	0.0193 ppm	0.0102 ppm
Recovery Percentage 1	108.093 %	102.444 %	103.138 %	95.554 %	99.362 %	97.382 %	99.633 %
Concentration RSD	4.8 %	0.4 %	3.3 %	1.1 %	1.0 %	2.9 %	2.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0055 ppm	110.0863 %	106.7308 %	108.6459 %	108.7117 %	105.7221 %	107.8679 %
Concentration per Run 1	0.0056 ppm	110.4142 %	106.2758 %	107.9758 %	108.7935 %	105.4559 %	107.4216 %
Concentration per Run 2	0.0054 ppm	110.4494 %	106.8561 %	108.7084 %	109.1749 %	105.4119 %	108.0229 %
Concentration per Run 3	0.0053 ppm	109.3955 %	107.0605 %	109.2535 %	108.1667 %	106.2986 %	108.1593 %
Recovery Percentage 1	109.218 %						
Concentration RSD	2.9 %	0.5 %	0.4 %	0.6 %	0.5 %	0.5 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: LLOQ Sb & B
Analysis started at: 9/26/2024 9:03:56 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0055 ppm	0.0935 ppm	0.0040 ppm	0.0329 ppm	0.0101 ppm	0.0050 ppm	0.1014 ppm
Concentration per Run 1	0.0049 ppm	0.0896 ppm	0.0051 ppm	0.0333 ppm	0.0103 ppm	0.0051 ppm	0.0981 ppm
Concentration per Run 2	0.0058 ppm	0.1024 ppm	0.0048 ppm	0.0323 ppm	0.0101 ppm	0.0050 ppm	0.1030 ppm
Concentration per Run 3	0.0058 ppm	0.0886 ppm	0.0023 ppm	0.0331 ppm	0.0099 ppm	0.0050 ppm	0.1030 ppm
Recovery Percentage 1	109.382 %	93.544 %	80.897 %	109.661 %	101.020 %	100.896 %	101.355 %
Concentration RSD	9.6 %	8.2 %	38.2 %	1.6 %	1.8 %	0.3 %	2.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0041 ppm	0.0205 ppm	0.0099 ppm	0.0097 ppm	0.0500 ppm	2.6025 ppm	0.0102 ppm
Concentration per Run 1	0.0040 ppm	0.0203 ppm	0.0101 ppm	0.0098 ppm	0.0480 ppm	2.6202 ppm	0.0101 ppm
Concentration per Run 2	0.0041 ppm	0.0201 ppm	0.0098 ppm	0.0099 ppm	0.0502 ppm	2.5996 ppm	0.0104 ppm
Concentration per Run 3	0.0042 ppm	0.0210 ppm	0.0100 ppm	0.0094 ppm	0.0519 ppm	2.5878 ppm	0.0101 ppm
Recovery Percentage 1	102.203 %	102.306 %	99.452 %	96.850 %	100.043 %	104.101 %	102.068 %
Concentration RSD	3.5 %	2.2 %	1.2 %	2.8 %	3.9 %	0.6 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1034 ppm	0.0102 ppm	0.0497 ppm	2.0197 ppm	0.0204 ppm	0.0122 ppm	0.0558 ppm
Concentration per Run 1	0.1017 ppm	0.0099 ppm	0.0498 ppm	2.0178 ppm	0.0193 ppm	0.0115 ppm	0.0563 ppm
Concentration per Run 2	0.1060 ppm	0.0104 ppm	0.0503 ppm	2.0187 ppm	0.0205 ppm	0.0125 ppm	0.0561 ppm
Concentration per Run 3	0.1025 ppm	0.0101 ppm	0.0491 ppm	2.0225 ppm	0.0213 ppm	0.0128 ppm	0.0551 ppm
Recovery Percentage 1	103.398 %	101.573 %	99.450 %	100.983 %	101.929 %	122.348 %	111.680 %
Concentration RSD	2.2 %	2.7 %	1.2 %	0.1 %	4.9 %	5.5 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0138 ppm	0.5153 ppm	0.0489 ppm	0.0097 ppm	0.0495 ppm	0.0217 ppm	0.0099 ppm
Concentration per Run 1	0.0121 ppm	0.5120 ppm	0.0483 ppm	0.0096 ppm	0.0493 ppm	0.0207 ppm	0.0097 ppm
Concentration per Run 2	0.0146 ppm	0.5167 ppm	0.0504 ppm	0.0098 ppm	0.0500 ppm	0.0231 ppm	0.0099 ppm
Concentration per Run 3	0.0146 ppm	0.5170 ppm	0.0481 ppm	0.0096 ppm	0.0492 ppm	0.0214 ppm	0.0101 ppm
Recovery Percentage 1	137.696 %	103.050 %	97.837 %	96.547 %	98.987 %	108.686 %	99.250 %
Concentration RSD	10.7 %	0.5 %	2.6 %	1.1 %	0.8 %	5.7 %	2.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0052 ppm	106.4982 %	105.1001 %	104.8708 %	104.1765 %	104.0620 %	103.8437 %
Concentration per Run 1	0.0054 ppm	107.1355 %	104.3554 %	104.5557 %	104.5496 %	103.6492 %	103.2653 %
Concentration per Run 2	0.0051 ppm	106.1955 %	104.8033 %	104.2737 %	103.6485 %	103.5150 %	103.4531 %
Concentration per Run 3	0.0051 ppm	106.1635 %	106.1415 %	105.7829 %	104.3313 %	105.0218 %	104.8125 %
Recovery Percentage 1	104.105 %						
Concentration RSD	3.4 %	0.5 %	0.9 %	0.8 %	0.5 %	0.8 %	0.8 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: LLOQ 0.005 As
Analysis started at: 9/26/2024 9:29:20 AM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0051 ppm	0.0095 ppm	0.0045 ppm	0.0067 ppm	0.0053 ppm	0.0053 ppm	0.0108 ppm
Concentration per Run 1	0.0050 ppm	0.0160 ppm	0.0030 ppm	0.0058 ppm	0.0054 ppm	0.0053 ppm	0.0167 ppm
Concentration per Run 2	0.0054 ppm	0.0118 ppm	0.0049 ppm	0.0086 ppm	0.0053 ppm	0.0053 ppm	0.0068 ppm
Concentration per Run 3	0.0050 ppm	0.0007 ppm	0.0057 ppm	0.0056 ppm	0.0053 ppm	0.0053 ppm	0.0088 ppm
Recovery Percentage 1	102.679 %	0.000 %	90.916 %	0.000 %	0.000 %	106.131 %	0.000 %
Concentration RSD	4.6 %	83.7 %	30.4 %	24.8 %	0.8 %	0.5 %	48.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0052 ppm	0.0057 ppm	0.0053 ppm	0.0048 ppm	0.0056 ppm	0.0817 ppm	0.0059 ppm
Concentration per Run 1	0.0053 ppm	0.0056 ppm	0.0049 ppm	0.0049 ppm	0.0037 ppm	0.0821 ppm	0.0067 ppm
Concentration per Run 2	0.0050 ppm	0.0050 ppm	0.0056 ppm	0.0048 ppm	0.0073 ppm	0.0799 ppm	0.0056 ppm
Concentration per Run 3	0.0054 ppm	0.0064 ppm	0.0055 ppm	0.0047 ppm	0.0058 ppm	0.0831 ppm	0.0055 ppm
Recovery Percentage 1	104.820 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	4.0 %	12.6 %	6.8 %	2.7 %	32.5 %	2.0 %	11.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0070 ppm	0.0053 ppm	0.0052 ppm	0.1048 ppm	0.0054 ppm	0.0063 ppm	0.0091 ppm
Concentration per Run 1	0.0050 ppm	0.0053 ppm	0.0053 ppm	0.1084 ppm	0.0055 ppm	0.0059 ppm	0.0133 ppm
Concentration per Run 2	0.0095 ppm	0.0051 ppm	0.0050 ppm	0.1037 ppm	0.0057 ppm	0.0068 ppm	0.0063 ppm
Concentration per Run 3	0.0066 ppm	0.0055 ppm	0.0053 ppm	0.1024 ppm	0.0049 ppm	0.0062 ppm	0.0076 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	32.7 %	3.8 %	2.8 %	3.1 %	8.0 %	7.2 %	41.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0062 ppm	0.0571 ppm	0.0042 ppm	0.0050 ppm	0.0051 ppm	0.0052 ppm	0.0053 ppm
Concentration per Run 1	0.0092 ppm	0.0568 ppm	0.0045 ppm	0.0050 ppm	0.0047 ppm	0.0055 ppm	0.0057 ppm
Concentration per Run 2	0.0045 ppm	0.0569 ppm	0.0040 ppm	0.0050 ppm	0.0054 ppm	0.0061 ppm	0.0053 ppm
Concentration per Run 3	0.0049 ppm	0.0575 ppm	0.0041 ppm	0.0049 ppm	0.0051 ppm	0.0039 ppm	0.0050 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	42.1 %	0.7 %	6.6 %	1.8 %	6.4 %	21.5 %	6.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0058 ppm	104.2581 %	102.8291 %	104.5640 %	101.3637 %	102.1308 %	103.1471 %
Concentration per Run 1	0.0061 ppm	104.4635 %	103.4979 %	104.9084 %	101.1918 %	103.2676 %	103.4364 %
Concentration per Run 2	0.0056 ppm	104.1802 %	102.9705 %	104.6187 %	101.3680 %	102.1800 %	103.3490 %
Concentration per Run 3	0.0056 ppm	104.1307 %	102.0188 %	104.1648 %	101.5313 %	100.9450 %	102.6560 %
Recovery Percentage 1	115.027 %						
Concentration RSD	4.5 %	0.2 %	0.7 %	0.4 %	0.2 %	1.1 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: LLOQ 0.01 As
Analysis started at: 9/26/2024 9:33:31 AM
Rack 1
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0103 ppm	0.0131 ppm	0.0106 ppm	0.0119 ppm	0.0105 ppm	0.0105 ppm	0.0128 ppm
Concentration per Run 1	0.0109 ppm	0.0086 ppm	0.0091 ppm	0.0114 ppm	0.0104 ppm	0.0105 ppm	0.0154 ppm
Concentration per Run 2	0.0101 ppm	0.0157 ppm	0.0115 ppm	0.0115 ppm	0.0104 ppm	0.0105 ppm	0.0128 ppm
Concentration per Run 3	0.0099 ppm	0.0149 ppm	0.0110 ppm	0.0127 ppm	0.0107 ppm	0.0104 ppm	0.0102 ppm
Recovery Percentage 1	0.000 %	0.000 %	105.731 %	118.705 %	104.961 %	0.000 %	0.000 %
Concentration RSD	5.1 %	29.5 %	12.0 %	6.3 %	1.7 %	0.7 %	20.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0105 ppm	0.0107 ppm	0.0109 ppm	0.0099 ppm	0.0115 ppm	0.1289 ppm	0.0104 ppm
Concentration per Run 1	0.0104 ppm	0.0101 ppm	0.0103 ppm	0.0096 ppm	0.0097 ppm	0.1344 ppm	0.0112 ppm
Concentration per Run 2	0.0105 ppm	0.0106 ppm	0.0113 ppm	0.0095 ppm	0.0123 ppm	0.1195 ppm	0.0093 ppm
Concentration per Run 3	0.0106 ppm	0.0115 ppm	0.0110 ppm	0.0104 ppm	0.0126 ppm	0.1329 ppm	0.0107 ppm
Recovery Percentage 1	0.000 %	107.262 %	108.900 %	98.596 %	0.000 %	0.000 %	103.924 %
Concentration RSD	0.9 %	6.3 %	4.8 %	5.0 %	13.9 %	6.4 %	9.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0106 ppm	0.0103 ppm	0.0100 ppm	0.2112 ppm	0.0111 ppm	0.0115 ppm	0.0101 ppm
Concentration per Run 1	0.0110 ppm	0.0103 ppm	0.0096 ppm	0.2098 ppm	0.0113 ppm	0.0109 ppm	0.0144 ppm
Concentration per Run 2	0.0112 ppm	0.0104 ppm	0.0102 ppm	0.2158 ppm	0.0108 ppm	0.0115 ppm	0.0071 ppm
Concentration per Run 3	0.0095 ppm	0.0102 ppm	0.0102 ppm	0.2081 ppm	0.0112 ppm	0.0121 ppm	0.0088 ppm
Recovery Percentage 1	0.000 %	103.208 %	0.000 %	0.000 %	111.126 %	114.771 %	0.000 %
Concentration RSD	8.7 %	1.0 %	3.4 %	1.9 %	2.2 %	5.1 %	38.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0150 ppm	0.1080 ppm	0.0085 ppm	0.0100 ppm	0.0102 ppm	0.0099 ppm	0.0104 ppm
Concentration per Run 1	0.0149 ppm	0.1059 ppm	0.0089 ppm	0.0101 ppm	0.0100 ppm	0.0080 ppm	0.0105 ppm
Concentration per Run 2	0.0114 ppm	0.1082 ppm	0.0080 ppm	0.0101 ppm	0.0104 ppm	0.0106 ppm	0.0105 ppm
Concentration per Run 3	0.0187 ppm	0.1100 ppm	0.0086 ppm	0.0098 ppm	0.0104 ppm	0.0109 ppm	0.0104 ppm
Recovery Percentage 1	149.658 %	0.000 %	85.168 %	99.659 %	102.425 %	98.566 %	104.428 %
Concentration RSD	24.4 %	1.9 %	5.1 %	1.8 %	2.2 %	16.2 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0107 ppm	107.2399 %	102.7468 %	107.3232 %	106.1345 %	102.2651 %	107.2020 %
Concentration per Run 1	0.0108 ppm	108.3854 %	103.2654 %	107.3573 %	106.6218 %	102.6203 %	106.9865 %
Concentration per Run 2	0.0105 ppm	106.2109 %	102.6562 %	107.4438 %	105.5443 %	102.2826 %	107.4640 %
Concentration per Run 3	0.0107 ppm	107.1233 %	102.3188 %	107.1686 %	106.2374 %	101.8925 %	107.1554 %
Recovery Percentage 1	106.653 %						
Concentration RSD	1.5 %	1.0 %	0.5 %	0.1 %	0.5 %	0.4 %	0.2 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: LDR 20 As pass
Analysis started at: 9/26/2024 9:37:23 AM
Rack 1
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0039 ppm	19.7832 ppm	0.0015 ppm	0.0001 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 1	0.0003 ppm	-0.0010 ppm	19.7198 ppm	-0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0117 ppm
Concentration per Run 2	-0.0004 ppm	-0.0052 ppm	19.8331 ppm	0.0033 ppm	-0.0001 ppm	0.0000 ppm	0.0063 ppm
Concentration per Run 3	-0.0003 ppm	-0.0054 ppm	19.7966 ppm	0.0019 ppm	0.0002 ppm	0.0001 ppm	0.0007 ppm
Concentration RSD	234.1 %	64.9 %	0.3 %	134.3 %	131.2 %	155.1 %	87.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0005 ppm	0.0002 ppm	-0.0001 ppm	0.0002 ppm	0.0097 ppm	0.0005 ppm
Concentration per Run 1	-0.0003 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	-0.0002 ppm	-0.0025 ppm	0.0005 ppm
Concentration per Run 2	-0.0004 ppm	0.0011 ppm	0.0003 ppm	-0.0001 ppm	0.0004 ppm	0.0021 ppm	0.0004 ppm
Concentration per Run 3	-0.0007 ppm	0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0005 ppm	0.0295 ppm	0.0004 ppm
Concentration RSD	34.6 %	106.1 %	83.6 %	388.8 %	149.1 %	178.1 %	12.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0025 ppm	0.0000 ppm	-0.0005 ppm	0.0036 ppm	0.0004 ppm	0.0013 ppm	0.0016 ppm
Concentration per Run 1	0.0016 ppm	0.0000 ppm	-0.0006 ppm	0.0032 ppm	0.0003 ppm	0.0025 ppm	0.0009 ppm
Concentration per Run 2	0.0018 ppm	0.0000 ppm	-0.0007 ppm	0.0004 ppm	0.0012 ppm	0.0005 ppm	0.0015 ppm
Concentration per Run 3	0.0041 ppm	0.0001 ppm	-0.0003 ppm	0.0072 ppm	-0.0001 ppm	0.0008 ppm	0.0025 ppm
Concentration RSD	56.2 %	236.8 %	43.1 %	95.0 %	152.8 %	83.9 %	49.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0046 ppm	-0.0023 ppm	-0.0011 ppm	0.0000 ppm	-0.0004 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 1	0.0054 ppm	-0.0001 ppm	-0.0027 ppm	0.0000 ppm	-0.0003 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 2	0.0024 ppm	-0.0052 ppm	-0.0003 ppm	0.0000 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	0.0062 ppm	-0.0015 ppm	-0.0003 ppm	0.0000 ppm	-0.0004 ppm	0.0014 ppm	0.0003 ppm
Concentration RSD	43.1 %	114.7 %	126.1 %	7.1 %	21.5 %	90.8 %	59.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	109.3291 %	105.0044 %	109.4707 %	107.4820 %	104.2105 %	108.5706 %
Concentration per Run 1	0.0006 ppm	110.2230 %	105.1203 %	109.6980 %	108.1834 %	104.4867 %	108.6547 %
Concentration per Run 2	0.0006 ppm	108.3410 %	104.5212 %	108.8588 %	106.6494 %	103.9420 %	108.5780 %
Concentration per Run 3	0.0007 ppm	109.4233 %	105.3716 %	109.8552 %	107.6133 %	104.2028 %	108.4789 %
Concentration RSD	7.5 %	0.9 %	0.4 %	0.5 %	0.7 %	0.3 %	0.1 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: LDR 20 B pass
Analysis started at: 9/26/2024 9:41:15 AM
Rack 1
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0066 ppm	-0.0009 ppm	**21.0122 ppm**	0.0002 ppm	0.0001 ppm	0.0052 ppm
Concentration per Run 1	-0.0002 ppm	-0.0038 ppm	-0.0018 ppm	20.8550 ppm	0.0003 ppm	0.0001 ppm	0.0017 ppm
Concentration per Run 2	-0.0006 ppm	-0.0150 ppm	-0.0030 ppm	21.0793 ppm	0.0004 ppm	0.0000 ppm	0.0063 ppm
Concentration per Run 3	-0.0004 ppm	-0.0010 ppm	0.0020 ppm	21.1022 ppm	0.0000 ppm	0.0001 ppm	0.0076 ppm
Concentration RSD	42.4 %	112.1 %	278.2 %	0.7 %	97.8 %	40.7 %	59.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0004 ppm	-0.0001 ppm	0.0010 ppm	-0.0067 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm	-0.0293 ppm	-0.0008 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	0.0006 ppm	-0.0002 ppm	0.0016 ppm	-0.0189 ppm	-0.0009 ppm
Concentration per Run 3	0.0000 ppm	-0.0012 ppm	0.0003 ppm	-0.0004 ppm	0.0014 ppm	0.0281 ppm	0.0009 ppm
Concentration RSD	111.9 %	189.5 %	50.2 %	284.9 %	78.9 %	457.9 %	380.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0004 ppm	-0.0001 ppm	0.0002 ppm	-0.0036 ppm	0.0005 ppm	0.0008 ppm	0.0033 ppm
Concentration per Run 1	0.0014 ppm	-0.0001 ppm	0.0002 ppm	-0.0107 ppm	0.0003 ppm	0.0007 ppm	0.0023 ppm
Concentration per Run 2	-0.0004 ppm	-0.0002 ppm	-0.0005 ppm	0.0029 ppm	0.0010 ppm	0.0011 ppm	0.0038 ppm
Concentration per Run 3	-0.0022 ppm	0.0001 ppm	0.0008 ppm	-0.0029 ppm	0.0002 ppm	0.0006 ppm	0.0038 ppm
Concentration RSD	473.6 %	204.1 %	405.9 %	191.2 %	85.7 %	28.4 %	26.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	-0.0024 ppm	-0.0007 ppm	0.0001 ppm	-0.0003 ppm	-0.0012 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	-0.0019 ppm	-0.0009 ppm	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 2	0.0027 ppm	-0.0047 ppm	-0.0003 ppm	0.0001 ppm	-0.0002 ppm	-0.0017 ppm	0.0003 ppm
Concentration per Run 3	0.0029 ppm	-0.0005 ppm	-0.0010 ppm	0.0002 ppm	-0.0003 ppm	-0.0017 ppm	0.0002 ppm
Concentration RSD	82.1 %	89.5 %	51.3 %	145.0 %	42.9 %	64.4 %	63.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	107.7437 %	103.2428 %	106.9200 %	106.9607 %	102.6579 %	107.1789 %
Concentration per Run 1	0.0001 ppm	108.9594 %	104.4470 %	107.3958 %	107.7275 %	103.7706 %	107.8396 %
Concentration per Run 2	-0.0001 ppm	107.2547 %	103.5403 %	106.2225 %	106.6399 %	102.5327 %	106.4201 %
Concentration per Run 3	0.0000 ppm	107.0170 %	101.7412 %	107.1415 %	106.5148 %	101.6704 %	107.2770 %
Concentration RSD	1,669.6 %	1.0 %	1.3 %	0.6 %	0.6 %	1.0 %	0.7 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: LDR 500 Fe pass
Analysis started at: 9/26/2024 9:45:07 AM
Rack 1
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0047 ppm	-0.0029 ppm	0.0172 ppm	0.0006 ppm	0.0000 ppm	0.0067 ppm
Concentration per Run 1	0.0000 ppm	0.0039 ppm	-0.0017 ppm	0.0177 ppm	0.0005 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 2	0.0007 ppm	0.0015 ppm	-0.0031 ppm	0.0173 ppm	0.0007 ppm	0.0000 ppm	0.0053 ppm
Concentration per Run 3	0.0006 ppm	0.0088 ppm	-0.0037 ppm	0.0165 ppm	0.0005 ppm	0.0000 ppm	0.0088 ppm
Concentration RSD	80.1 %	77.9 %	35.2 %	3.7 %	13.8 %	85.0 %	26.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0020 ppm	0.0001 ppm	0.0002 ppm	462.0892 ppm	-0.0504 ppm	0.0004 ppm
Concentration per Run 1	0.0005 ppm	-0.0019 ppm	0.0002 ppm	-0.0002 ppm	462.5125 ppm	-0.0435 ppm	0.0009 ppm
Concentration per Run 2	0.0004 ppm	-0.0025 ppm	0.0000 ppm	0.0002 ppm	462.4989 ppm	-0.0480 ppm	0.0001 ppm
Concentration per Run 3	0.0006 ppm	-0.0016 ppm	0.0000 ppm	0.0007 ppm	461.2561 ppm	-0.0595 ppm	0.0003 ppm
Concentration RSD	16.6 %	22.6 %	193.3 %	163.5 %	0.2 %	16.4 %	100.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0008 ppm	-0.0027 ppm	-0.0029 ppm	0.0028 ppm	-0.0017 ppm	0.0018 ppm	-0.0019 ppm
Concentration per Run 1	-0.0020 ppm	-0.0027 ppm	-0.0034 ppm	0.0011 ppm	-0.0021 ppm	0.0029 ppm	0.0011 ppm
Concentration per Run 2	-0.0008 ppm	-0.0027 ppm	-0.0027 ppm	0.0029 ppm	-0.0013 ppm	0.0024 ppm	-0.0012 ppm
Concentration per Run 3	0.0003 ppm	-0.0028 ppm	-0.0027 ppm	0.0045 ppm	-0.0017 ppm	0.0002 ppm	-0.0056 ppm
Concentration RSD	136.4 %	3.3 %	14.7 %	60.5 %	24.4 %	77.2 %	178.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	-0.0011 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0013 ppm	0.0020 ppm
Concentration per Run 1	-0.0005 ppm	0.0014 ppm	-0.0002 ppm	0.0004 ppm	0.0001 ppm	-0.0002 ppm	0.0023 ppm
Concentration per Run 2	-0.0006 ppm	-0.0016 ppm	0.0004 ppm	0.0005 ppm	0.0000 ppm	0.0026 ppm	0.0021 ppm
Concentration per Run 3	0.0036 ppm	-0.0029 ppm	-0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0016 ppm	0.0016 ppm
Concentration RSD	299.2 %	205.2 %	818.1 %	3.5 %	725.1 %	109.1 %	18.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0005 ppm	107.1377 %	104.8145 %	99.3099 %	105.0923 %	103.6512 %	106.3250 %
Concentration per Run 1	-0.0002 ppm	107.8556 %	104.5627 %	99.6183 %	105.4289 %	103.3010 %	106.7756 %
Concentration per Run 2	-0.0005 ppm	107.5739 %	104.6679 %	99.4157 %	105.6947 %	103.2095 %	106.0352 %
Concentration per Run 3	-0.0008 ppm	105.9835 %	105.2129 %	98.8958 %	104.1533 %	104.4432 %	106.1642 %
Concentration RSD	60.3 %	0.9 %	0.3 %	0.4 %	0.8 %	0.7 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: xLDR 1000 Ca
Analysis started at: 9/26/2024 9:49:00 AM
Rack 1
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0006 ppm	**0.0044 ppm**	0.0095 ppm	0.0010 ppm	0.0001 ppm	**897.2638 ppm**
Concentration per Run 1	-0.0006 ppm	0.0170 ppm	0.0019 ppm	0.0101 ppm	0.0008 ppm	0.0001 ppm	900.4446 ppm
Concentration per Run 2	-0.0003 ppm	-0.0058 ppm	0.0046 ppm	0.0075 ppm	0.0012 ppm	0.0001 ppm	901.4907 ppm
Concentration per Run 3	-0.0008 ppm	-0.0093 ppm	0.0068 ppm	0.0109 ppm	0.0010 ppm	0.0001 ppm	889.8560 ppm
Concentration RSD	40.0 %	2,289.6 %	**55.8 %**	18.9 %	15.8 %	21.5 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0004 ppm	0.0108 ppm	0.0157 ppm	-0.0010 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0006 ppm	0.0117 ppm	0.0075 ppm	0.0013 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0004 ppm	-0.0001 ppm	0.0106 ppm	0.0204 ppm	-0.0007 ppm
Concentration per Run 3	-0.0002 ppm	0.0007 ppm	0.0005 ppm	0.0008 ppm	0.0100 ppm	0.0193 ppm	-0.0037 ppm
Concentration RSD	307.2 %	221.7 %	28.9 %	108.2 %	8.0 %	45.7 %	241.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0054 ppm	0.0006 ppm	0.0001 ppm	0.0026 ppm	0.0012 ppm	0.0008 ppm	-0.0015 ppm
Concentration per Run 1	0.0058 ppm	0.0004 ppm	-0.0002 ppm	0.0038 ppm	0.0012 ppm	0.0007 ppm	-0.0030 ppm
Concentration per Run 2	0.0044 ppm	0.0008 ppm	0.0001 ppm	0.0023 ppm	0.0013 ppm	0.0012 ppm	0.0002 ppm
Concentration per Run 3	0.0061 ppm	0.0005 ppm	0.0004 ppm	0.0017 ppm	0.0010 ppm	0.0004 ppm	-0.0018 ppm
Concentration RSD	16.2 %	31.3 %	247.7 %	43.7 %	14.9 %	48.9 %	105.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	0.0125 ppm	-0.0012 ppm	-0.0014 ppm	0.0009 ppm	0.0008 ppm	0.0008 ppm
Concentration per Run 1	0.0046 ppm	0.0205 ppm	-0.0007 ppm	-0.0014 ppm	0.0009 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 2	-0.0014 ppm	0.0082 ppm	-0.0002 ppm	-0.0015 ppm	0.0011 ppm	0.0024 ppm	0.0009 ppm
Concentration per Run 3	0.0010 ppm	0.0088 ppm	-0.0028 ppm	-0.0013 ppm	0.0009 ppm	-0.0004 ppm	0.0012 ppm
Concentration RSD	217.4 %	55.5 %	112.5 %	5.3 %	15.5 %	188.1 %	41.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0030 ppm	100.5138 %	104.1335 %	89.8046 %	99.3776 %	103.6996 %	98.6302 %
Concentration per Run 1	0.0032 ppm	101.1172 %	104.5018 %	89.7499 %	99.8776 %	104.3174 %	98.7119 %
Concentration per Run 2	0.0029 ppm	100.4087 %	104.0844 %	89.8653 %	99.5725 %	103.9201 %	99.0784 %
Concentration per Run 3	0.0029 ppm	100.0155 %	103.8142 %	89.7987 %	98.6827 %	102.8614 %	98.1004 %
Concentration RSD	6.3 %	0.6 %	0.3 %	0.1 %	0.6 %	0.7 %	0.5 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 10:01:23 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5142 ppm	0.4784 ppm	0.4914 ppm	0.5079 ppm	0.5001 ppm	0.5129 ppm	0.4934 ppm
Concentration per Run 1	0.5134 ppm	0.4809 ppm	0.4934 ppm	0.5109 ppm	0.4984 ppm	0.5116 ppm	0.4918 ppm
Concentration per Run 2	0.5138 ppm	0.4823 ppm	0.4892 ppm	0.5004 ppm	0.5032 ppm	0.5137 ppm	0.4980 ppm
Concentration per Run 3	0.5152 ppm	0.4720 ppm	0.4916 ppm	0.5123 ppm	0.4988 ppm	0.5134 ppm	0.4906 ppm
Recovery Percentage 1	102.832 %	95.677 %	98.283 %	101.579 %	100.029 %	102.584 %	98.688 %
Concentration RSD	0.2 %	1.2 %	0.4 %	1.3 %	0.5 %	0.2 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4997 ppm	0.5131 ppm	0.4928 ppm	0.4927 ppm	0.5046 ppm	5.1963 ppm	0.4942 ppm
Concentration per Run 1	0.4962 ppm	0.5118 ppm	0.4927 ppm	0.4960 ppm	0.5046 ppm	5.1755 ppm	0.4973 ppm
Concentration per Run 2	0.4989 ppm	0.5119 ppm	0.4912 ppm	0.4889 ppm	0.5072 ppm	5.1939 ppm	0.4931 ppm
Concentration per Run 3	0.5038 ppm	0.5155 ppm	0.4946 ppm	0.4933 ppm	0.5020 ppm	5.2195 ppm	0.4922 ppm
Recovery Percentage 1	99.930 %	102.616 %	98.570 %	98.546 %	100.918 %	103.926 %	98.837 %
Concentration RSD	0.8 %	0.4 %	0.3 %	0.7 %	0.5 %	0.4 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4966 ppm	0.4933 ppm	0.4886 ppm	10.0178 ppm	0.5111 ppm	0.5008 ppm	0.5183 ppm
Concentration per Run 1	0.4954 ppm	0.4940 ppm	0.4858 ppm	10.0099 ppm	0.5105 ppm	0.4982 ppm	0.5176 ppm
Concentration per Run 2	0.4928 ppm	0.4941 ppm	0.4863 ppm	10.0326 ppm	0.5049 ppm	0.5036 ppm	0.5167 ppm
Concentration per Run 3	0.5015 ppm	0.4917 ppm	0.4935 ppm	10.0110 ppm	0.5180 ppm	0.5007 ppm	0.5207 ppm
Recovery Percentage 1	99.317 %	98.657 %	97.710 %	100.178 %	102.227 %	100.169 %	103.666 %
Concentration RSD	0.9 %	0.3 %	0.9 %	0.1 %	1.3 %	0.5 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5097 ppm	5.4506 ppm	0.4812 ppm	0.4762 ppm	0.5011 ppm	0.4958 ppm	0.4913 ppm
Concentration per Run 1	0.5071 ppm	5.4478 ppm	0.4829 ppm	0.4734 ppm	0.5004 ppm	0.4936 ppm	0.4899 ppm
Concentration per Run 2	0.5102 ppm	5.4332 ppm	0.4773 ppm	0.4789 ppm	0.5009 ppm	0.4981 ppm	0.4890 ppm
Concentration per Run 3	0.5116 ppm	5.4709 ppm	0.4833 ppm	0.4765 ppm	0.5020 ppm	0.4958 ppm	0.4948 ppm
Recovery Percentage 1	101.930 %	103.821 %	96.234 %	95.247 %	100.223 %	99.164 %	98.251 %
Concentration RSD	0.5 %	0.3 %	0.7 %	0.6 %	0.2 %	0.5 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5166 ppm	105.0016 %	103.8144 %	104.0482 %	102.5112 %	101.8235 %	103.0387 %
Concentration per Run 1	0.5179 ppm	104.9024 %	103.5923 %	105.1320 %	102.7164 %	101.5582 %	103.9163 %
Concentration per Run 2	0.5122 ppm	105.6526 %	103.0876 %	103.6616 %	102.7311 %	101.1548 %	102.7798 %
Concentration per Run 3	0.5196 ppm	104.4498 %	104.7633 %	103.3509 %	102.0862 %	102.7574 %	102.4200 %
Recovery Percentage 1	103.312 %						
Concentration RSD	0.7 %	0.6 %	0.8 %	0.9 %	0.4 %	0.8 %	0.8 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 10:05:37 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0077 ppm	-0.0013 ppm	0.0032 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.0005 ppm	-0.0053 ppm	-0.0023 ppm	0.0024 ppm	0.0000 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run 2	-0.0006 ppm	-0.0024 ppm	-0.0003 ppm	0.0035 ppm	0.0002 ppm	0.0000 ppm	-0.0023 ppm
Concentration per Run 3	0.0002 ppm	-0.0155 ppm	-0.0012 ppm	0.0037 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm
Recovery Percentage 1	0.315 %	-7.721 %	-25.426 %	10.687 %	1.188 %	1.040 %	0.106 %
Concentration RSD	2,658.7 %	89.2 %	76.3 %	20.6 %	85.7 %	21.1 %	2,480.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0008 ppm	0.0002 ppm	0.0003 ppm	-0.0011 ppm	-0.0074 ppm	0.0008 ppm
Concentration per Run 1	0.0001 ppm	0.0012 ppm	0.0004 ppm	0.0005 ppm	-0.0009 ppm	-0.0123 ppm	0.0009 ppm
Concentration per Run 2	0.0001 ppm	0.0011 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	-0.0247 ppm	0.0018 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0003 ppm	-0.0028 ppm	0.0147 ppm	-0.0003 ppm
Recovery Percentage 1	-0.327 %	3.901 %	2.403 %	3.073 %	-2.115 %	-0.296 %	16.126 %
Concentration RSD	1,032.7 %	74.1 %	67.1 %	65.1 %	161.3 %	271.9 %	134.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0017 ppm	-0.0002 ppm	0.0015 ppm	-0.0072 ppm	0.0005 ppm	0.0005 ppm	0.0041 ppm
Concentration per Run 1	0.0004 ppm	-0.0003 ppm	0.0019 ppm	0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0050 ppm
Concentration per Run 2	0.0024 ppm	-0.0002 ppm	0.0015 ppm	-0.0089 ppm	0.0009 ppm	0.0007 ppm	0.0046 ppm
Concentration per Run 3	0.0024 ppm	-0.0001 ppm	0.0010 ppm	-0.0135 ppm	0.0004 ppm	0.0009 ppm	0.0026 ppm
Recovery Percentage 1	1.735 %	-2.043 %	2.918 %	-0.359 %	2.049 %	4.950 %	8.144 %
Concentration RSD	64.9 %	45.5 %	29.6 %	101.8 %	63.4 %	95.8 %	30.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0029 ppm	-0.0031 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0028 ppm	-0.0007 ppm	0.0001 ppm	0.0002 ppm	-0.0014 ppm	0.0005 ppm
Concentration per Run 2	0.0046 ppm	-0.0042 ppm	0.0008 ppm	-0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 3	0.0042 ppm	-0.0024 ppm	-0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0011 ppm	0.0005 ppm
Recovery Percentage 1	29.122 %	-0.627 %	-0.674 %	0.129 %	-0.198 %	0.001 %	5.263 %
Concentration RSD	87.0 %	29.5 %	301.5 %	841.8 %	912.5 %	935,579.2 %	16.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0003 ppm	106.0034 %	101.8573 %	105.1846 %	105.8271 %	101.1918 %	105.4370 %
Concentration per Run 1	0.0004 ppm	105.8631 %	101.6235 %	105.3919 %	105.7644 %	100.6577 %	105.4806 %
Concentration per Run 2	0.0001 ppm	106.1329 %	101.6847 %	105.0596 %	105.9377 %	100.9477 %	105.5851 %
Concentration per Run 3	0.0005 ppm	106.0142 %	102.2635 %	105.1023 %	105.7791 %	101.9701 %	105.2452 %
Recovery Percentage 1	6.936 %						
Concentration RSD	51.5 %	0.1 %	0.3 %	0.2 %	0.1 %	0.7 %	0.2 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976360-1 WG1976360
Analysis started at: 9/26/2024 10:14:31 AM
Rack 1
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0029 ppm	0.0013 ppm	0.0033 ppm	0.0003 ppm	0.0001 ppm	0.0133 ppm
Concentration per Run 1	-0.0003 ppm	0.0034 ppm	-0.0004 ppm	0.0018 ppm	0.0002 ppm	0.0001 ppm	0.0080 ppm
Concentration per Run 2	0.0004 ppm	0.0024 ppm	0.0013 ppm	0.0058 ppm	0.0004 ppm	0.0000 ppm	0.0148 ppm
Concentration per Run 3	0.0001 ppm	0.0029 ppm	0.0028 ppm	0.0023 ppm	0.0004 ppm	0.0001 ppm	0.0171 ppm
Recovery Percentage 1	0.937 %	2.920 %	25.192 %	10.981 %	3.249 %	1.366 %	13.312 %
Concentration RSD	475.9 %	17.6 %	126.3 %	65.1 %	33.3 %	48.1 %	35.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0009 ppm	0.0000 ppm	0.0180 ppm	0.0200 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0009 ppm	0.0010 ppm	0.0001 ppm	0.0185 ppm	0.0532 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0008 ppm	0.0001 ppm	0.0179 ppm	0.0184 ppm	0.0002 ppm
Concentration per Run 3	-0.0001 ppm	0.0007 ppm	0.0010 ppm	-0.0002 ppm	0.0176 ppm	-0.0116 ppm	0.0017 ppm
Recovery Percentage 1	-0.752 %	3.544 %	9.348 %	0.018 %	36.056 %	0.800 %	9.668 %
Concentration RSD	114.3 %	32.2 %	12.5 %	10,871.1 %	2.5 %	162.0 %	236.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0056 ppm	0.0005 ppm	0.0004 ppm	0.0038 ppm	0.0001 ppm	0.0021 ppm	0.0046 ppm
Concentration per Run 1	0.0064 ppm	0.0003 ppm	0.0003 ppm	0.0113 ppm	0.0002 ppm	0.0025 ppm	0.0032 ppm
Concentration per Run 2	0.0023 ppm	0.0007 ppm	0.0003 ppm	0.0012 ppm	0.0001 ppm	0.0022 ppm	0.0074 ppm
Concentration per Run 3	0.0082 ppm	0.0005 ppm	0.0006 ppm	-0.0012 ppm	-0.0001 ppm	0.0016 ppm	0.0030 ppm
Recovery Percentage 1	5.611 %	5.147 %	0.813 %	0.188 %	0.248 %	21.230 %	9.103 %
Concentration RSD	53.3 %	35.5 %	49.2 %	175.7 %	240.4 %	21.5 %	53.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0031 ppm	0.0125 ppm	0.0009 ppm	0.0001 ppm	0.0001 ppm	-0.0018 ppm	0.0002 ppm
Concentration per Run 1	0.0037 ppm	0.0130 ppm	0.0008 ppm	-0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0003 ppm
Concentration per Run 2	0.0020 ppm	0.0133 ppm	0.0013 ppm	0.0002 ppm	-0.0003 ppm	-0.0008 ppm	-0.0001 ppm
Concentration per Run 3	0.0035 ppm	0.0114 ppm	0.0006 ppm	0.0001 ppm	0.0003 ppm	-0.0042 ppm	0.0003 ppm
Recovery Percentage 1	30.936 %	2.508 %	1.817 %	0.698 %	1.340 %	-8.914 %	1.904 %
Concentration RSD	30.6 %	8.2 %	39.5 %	190.2 %	306.5 %	120.3 %	133.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	106.9615 %	107.2870 %	104.0913 %	105.4981 %	106.4750 %	104.9831 %
Concentration per Run 1	0.0016 ppm	108.5718 %	107.1840 %	102.6653 %	106.9955 %	106.7216 %	103.8447 %
Concentration per Run 2	0.0014 ppm	105.4976 %	108.4018 %	104.3704 %	103.6208 %	107.4900 %	105.1183 %
Concentration per Run 3	0.0014 ppm	106.8150 %	106.2751 %	105.2381 %	105.8779 %	105.2134 %	105.9862 %
Recovery Percentage 1	29.799 %						
Concentration RSD	8.7 %	1.4 %	1.0 %	1.3 %	1.6 %	1.1 %	1.0 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976360-2 WG1976360
Analysis started at: 9/26/2024 10:18:36 AM
Rack 1
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0972 ppm	3.8674 ppm	0.2339 ppm	1.8912 ppm	3.8870 ppm	0.1017 ppm	19.3860 ppm
Concentration per Run 1	0.0976 ppm	3.8990 ppm	0.2324 ppm	1.8877 ppm	3.8912 ppm	0.1018 ppm	19.4453 ppm
Concentration per Run 2	0.0969 ppm	3.8394 ppm	0.2340 ppm	1.9018 ppm	3.8812 ppm	0.1016 ppm	19.2739 ppm
Concentration per Run 3	0.0971 ppm	3.8637 ppm	0.2355 ppm	1.8842 ppm	3.8884 ppm	0.1016 ppm	19.4389 ppm
Concentration RSD	0.4 %	0.8 %	0.7 %	0.5 %	0.1 %	0.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.1011 ppm	0.9837 ppm	0.3927 ppm	0.5023 ppm	2.0114 ppm	19.9256 ppm	0.0010 ppm
Concentration per Run 1	0.1030 ppm	0.9960 ppm	0.3938 ppm	0.5041 ppm	2.0220 ppm	19.8669 ppm	0.0001 ppm
Concentration per Run 2	0.0998 ppm	0.9763 ppm	0.3941 ppm	0.5016 ppm	2.0046 ppm	19.8919 ppm	0.0033 ppm
Concentration per Run 3	0.1006 ppm	0.9787 ppm	0.3902 ppm	0.5011 ppm	2.0076 ppm	20.0179 ppm	-0.0005 ppm
Concentration RSD	1.7 %	1.1 %	0.6 %	0.3 %	0.5 %	0.4 %	215.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	19.1546 ppm	1.0038 ppm	1.9928 ppm	19.5752 ppm	0.9832 ppm	1.0356 ppm	1.0026 ppm
Concentration per Run 1	19.1829 ppm	1.0050 ppm	1.9981 ppm	19.6048 ppm	0.9855 ppm	1.0363 ppm	1.0111 ppm
Concentration per Run 2	19.1523 ppm	1.0023 ppm	1.9816 ppm	19.5174 ppm	0.9886 ppm	1.0356 ppm	0.9967 ppm
Concentration per Run 3	19.1284 ppm	1.0042 ppm	1.9988 ppm	19.6035 ppm	0.9755 ppm	1.0348 ppm	0.9999 ppm
Concentration RSD	0.1 %	0.1 %	0.5 %	0.3 %	0.7 %	0.1 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.2242 ppm	1.4919 ppm	1.8692 ppm	1.8305 ppm	1.9742 ppm	0.2336 ppm	1.0029 ppm
Concentration per Run 1	0.2222 ppm	1.4982 ppm	1.8780 ppm	1.8344 ppm	1.9759 ppm	0.2328 ppm	1.0060 ppm
Concentration per Run 2	0.2260 ppm	1.4874 ppm	1.8616 ppm	1.8219 ppm	1.9797 ppm	0.2340 ppm	1.0009 ppm
Concentration per Run 3	0.2242 ppm	1.4901 ppm	1.8681 ppm	1.8352 ppm	1.9670 ppm	0.2340 ppm	1.0017 ppm
Concentration RSD	0.8 %	0.4 %	0.4 %	0.4 %	0.3 %	0.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9881 ppm	108.6313 %	108.2285 %	105.5502 %	106.7224 %	106.9503 %	106.8445 %
Concentration per Run 1	0.9899 ppm	108.3756 %	108.0246 %	105.2342 %	106.7303 %	107.2340 %	106.3375 %
Concentration per Run 2	0.9879 ppm	108.7575 %	107.7819 %	106.2078 %	106.7880 %	106.3378 %	107.5882 %
Concentration per Run 3	0.9865 ppm	108.7608 %	108.8791 %	105.2088 %	106.6490 %	107.2790 %	106.6079 %
Concentration RSD	0.2 %	0.2 %	0.5 %	0.5 %	0.1 %	0.5 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976360-3 WG1976360
Analysis started at: 9/26/2024 10:22:29 AM
Rack 1
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0945 ppm	3.7538 ppm	0.2298 ppm	1.8631 ppm	3.7772 ppm	0.0983 ppm	18.9884 ppm
Concentration per Run 1	0.0950 ppm	3.7569 ppm	0.2320 ppm	1.8636 ppm	3.7841 ppm	0.0987 ppm	18.9699 ppm
Concentration per Run 2	0.0946 ppm	3.7584 ppm	0.2264 ppm	1.8542 ppm	3.7740 ppm	0.0982 ppm	18.9917 ppm
Concentration per Run 3	0.0939 ppm	3.7461 ppm	0.2310 ppm	1.8716 ppm	3.7736 ppm	0.0981 ppm	19.0035 ppm
Concentration RSD	0.6 %	0.2 %	1.3 %	0.5 %	0.2 %	0.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.1001 ppm	0.9654 ppm	0.3839 ppm	0.4896 ppm	1.9410 ppm	19.3756 ppm	-0.0002 ppm
Concentration per Run 1	0.0998 ppm	0.9652 ppm	0.3830 ppm	0.4884 ppm	1.9463 ppm	19.3576 ppm	0.0001 ppm
Concentration per Run 2	0.1010 ppm	0.9713 ppm	0.3845 ppm	0.4876 ppm	1.9400 ppm	19.4545 ppm	-0.0003 ppm
Concentration per Run 3	0.0994 ppm	0.9596 ppm	0.3842 ppm	0.4928 ppm	1.9366 ppm	19.3148 ppm	-0.0005 ppm
Concentration RSD	0.8 %	0.6 %	0.2 %	0.6 %	0.3 %	0.4 %	116.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.8098 ppm	0.9742 ppm	1.9623 ppm	19.1118 ppm	0.9606 ppm	1.0150 ppm	0.9728 ppm
Concentration per Run 1	18.8279 ppm	0.9770 ppm	1.9494 ppm	19.1627 ppm	0.9624 ppm	1.0105 ppm	0.9685 ppm
Concentration per Run 2	18.8800 ppm	0.9725 ppm	1.9677 ppm	19.0851 ppm	0.9619 ppm	1.0131 ppm	0.9708 ppm
Concentration per Run 3	18.7214 ppm	0.9730 ppm	1.9697 ppm	19.0877 ppm	0.9577 ppm	1.0214 ppm	0.9792 ppm
Concentration RSD	0.4 %	0.3 %	0.6 %	0.2 %	0.3 %	0.6 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.2249 ppm	1.4657 ppm	1.8269 ppm	1.7910 ppm	1.9281 ppm	0.2272 ppm	0.9772 ppm
Concentration per Run 1	0.2245 ppm	1.4644 ppm	1.8191 ppm	1.7943 ppm	1.9324 ppm	0.2266 ppm	0.9752 ppm
Concentration per Run 2	0.2237 ppm	1.4640 ppm	1.8224 ppm	1.7862 ppm	1.9323 ppm	0.2242 ppm	0.9784 ppm
Concentration per Run 3	0.2266 ppm	1.4688 ppm	1.8392 ppm	1.7926 ppm	1.9197 ppm	0.2309 ppm	0.9780 ppm
Concentration RSD	0.7 %	0.2 %	0.6 %	0.2 %	0.4 %	1.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9656 ppm	109.9454 %	109.6747 %	106.7784 %	107.9256 %	108.4996 %	108.0475 %
Concentration per Run 1	0.9662 ppm	111.2222 %	110.6311 %	106.6993 %	109.0528 %	109.4816 %	107.8194 %
Concentration per Run 2	0.9643 ppm	109.0900 %	108.2727 %	107.0018 %	107.0757 %	107.1519 %	107.9922 %
Concentration per Run 3	0.9662 ppm	109.5239 %	110.1204 %	106.6340 %	107.6484 %	108.8654 %	108.3311 %
Concentration RSD	0.1 %	1.0 %	1.1 %	0.2 %	0.9 %	1.1 %	0.2 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2455369-01 WG1976360
Analysis started at: 9/26/2024 10:26:23 AM
Rack 1
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.1019 ppm	0.0042 ppm	0.0164 ppm	0.0107 ppm	0.0001 ppm	4.6115 ppm
Concentration per Run 1	0.0005 ppm	0.1054 ppm	0.0023 ppm	0.0168 ppm	0.0108 ppm	0.0000 ppm	4.5842 ppm
Concentration per Run 2	-0.0001 ppm	0.1003 ppm	0.0058 ppm	0.0157 ppm	0.0107 ppm	0.0001 ppm	4.6265 ppm
Concentration per Run 3	0.0002 ppm	0.0998 ppm	0.0044 ppm	0.0165 ppm	0.0107 ppm	0.0001 ppm	4.6239 ppm
Concentration RSD	127.2 %	3.0 %	42.4 %	3.6 %	0.8 %	25.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0005 ppm	0.0029 ppm	0.0494 ppm	0.2353 ppm	2.0716 ppm	0.0016 ppm
Concentration per Run 1	0.0004 ppm	0.0002 ppm	0.0027 ppm	0.0494 ppm	0.2338 ppm	2.0439 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0034 ppm	0.0499 ppm	0.2350 ppm	2.1285 ppm	0.0029 ppm
Concentration per Run 3	-0.0001 ppm	0.0013 ppm	0.0028 ppm	0.0490 ppm	0.2370 ppm	2.0424 ppm	0.0012 ppm
Concentration RSD	199.9 %	141.5 %	12.2 %	0.9 %	0.7 %	2.4 %	75.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.3069 ppm	0.0089 ppm	0.0070 ppm	7.9953 ppm	0.0075 ppm	0.0050 ppm	0.0052 ppm
Concentration per Run 1	0.3073 ppm	0.0089 ppm	0.0077 ppm	7.9525 ppm	0.0073 ppm	0.0055 ppm	0.0058 ppm
Concentration per Run 2	0.3060 ppm	0.0088 ppm	0.0069 ppm	8.0173 ppm	0.0073 ppm	0.0046 ppm	0.0026 ppm
Concentration per Run 3	0.3075 ppm	0.0089 ppm	0.0064 ppm	8.0161 ppm	0.0080 ppm	0.0050 ppm	0.0071 ppm
Concentration RSD	0.3 %	0.4 %	9.5 %	0.5 %	5.5 %	9.0 %	45.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0038 ppm	0.4717 ppm	0.0547 ppm	0.0093 ppm	0.0176 ppm	-0.0011 ppm	0.0005 ppm
Concentration per Run 1	0.0034 ppm	0.4775 ppm	0.0552 ppm	0.0094 ppm	0.0167 ppm	-0.0007 ppm	0.0006 ppm
Concentration per Run 2	0.0028 ppm	0.4805 ppm	0.0549 ppm	0.0092 ppm	0.0176 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 3	0.0050 ppm	0.4570 ppm	0.0540 ppm	0.0094 ppm	0.0186 ppm	-0.0025 ppm	0.0005 ppm
Concentration RSD	29.6 %	2.7 %	1.2 %	0.9 %	5.6 %	116.5 %	35.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1377 ppm	113.1344 %	112.0900 %	109.7464 %	111.4948 %	111.0979 %	110.8129 %
Concentration per Run 1	0.1377 ppm	112.4184 %	113.1639 %	109.0715 %	110.5419 %	111.6045 %	110.2823 %
Concentration per Run 2	0.1370 ppm	113.7581 %	111.3721 %	110.3887 %	112.2805 %	110.9536 %	111.5142 %
Concentration per Run 3	0.1385 ppm	113.2268 %	111.7341 %	109.7789 %	111.6619 %	110.7356 %	110.6423 %
Concentration RSD	0.6 %	0.6 %	0.8 %	0.6 %	0.8 %	0.4 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976490-1 WG1976490
Analysis started at: 9/26/2024 10:30:17 AM
Rack 1
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0048 ppm	0.0042 ppm	0.0036 ppm	0.0000 ppm	0.0001 ppm	0.0109 ppm
Concentration per Run 1	0.0002 ppm	0.0038 ppm	0.0041 ppm	0.0036 ppm	0.0002 ppm	0.0000 ppm	0.0092 ppm
Concentration per Run 2	0.0000 ppm	0.0074 ppm	0.0049 ppm	0.0037 ppm	0.0000 ppm	0.0001 ppm	0.0124 ppm
Concentration per Run 3	0.0006 ppm	0.0032 ppm	0.0037 ppm	0.0034 ppm	0.0000 ppm	0.0000 ppm	0.0111 ppm
Concentration RSD	101.2 %	47.3 %	13.9 %	4.1 %	227.9 %	89.7 %	14.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0008 ppm	0.0003 ppm	0.0002 ppm	0.0014 ppm	0.0235 ppm	0.0005 ppm
Concentration per Run 1	-0.0001 ppm	0.0007 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0095 ppm	0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0010 ppm	0.0001 ppm	-0.0001 ppm	0.0009 ppm	0.0376 ppm	0.0025 ppm
Concentration per Run 3	0.0001 ppm	0.0009 ppm	0.0006 ppm	0.0004 ppm	0.0029 ppm	0.0234 ppm	-0.0018 ppm
Concentration RSD	269.8 %	18.6 %	110.0 %	117.4 %	97.5 %	59.9 %	440.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0028 ppm	0.0001 ppm	0.0005 ppm	130.5729 ppm	-0.0001 ppm	0.0006 ppm	0.0024 ppm
Concentration per Run 1	0.0021 ppm	0.0000 ppm	0.0009 ppm	130.5492 ppm	0.0004 ppm	0.0000 ppm	0.0028 ppm
Concentration per Run 2	0.0027 ppm	0.0003 ppm	0.0000 ppm	130.6480 ppm	-0.0010 ppm	0.0001 ppm	0.0020 ppm
Concentration per Run 3	0.0036 ppm	-0.0001 ppm	0.0006 ppm	130.5216 ppm	0.0003 ppm	0.0018 ppm	0.0023 ppm
Concentration RSD	26.2 %	402.1 %	93.3 %	0.1 %	1,144.1 %	157.5 %	16.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0034 ppm	0.0224 ppm	-0.0023 ppm	0.0001 ppm	-0.0003 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 1	0.0062 ppm	0.0229 ppm	-0.0021 ppm	0.0000 ppm	-0.0006 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 2	0.0031 ppm	0.0214 ppm	-0.0019 ppm	0.0002 ppm	-0.0002 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 3	0.0008 ppm	0.0229 ppm	-0.0030 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0004 ppm
Concentration RSD	80.1 %	3.7 %	25.6 %	85.9 %	82.6 %	46.3 %	117.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	109.5333 %	109.8985 %	104.9034 %	107.5058 %	108.5883 %	108.4558 %
Concentration per Run 1	0.0008 ppm	108.5870 %	109.4822 %	104.0376 %	106.5146 %	108.2241 %	107.9271 %
Concentration per Run 2	0.0008 ppm	110.4033 %	110.3403 %	105.3857 %	108.3825 %	108.7711 %	108.7292 %
Concentration per Run 3	0.0006 ppm	109.6096 %	109.8729 %	105.2867 %	107.6203 %	108.7698 %	108.7112 %
Concentration RSD	21.0 %	0.8 %	0.4 %	0.7 %	0.9 %	0.3 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976490-2 WG1976490
Analysis started at: 9/26/2024 10:34:11 AM
Rack 1
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0467 ppm	1.8246 ppm	0.1140 ppm	0.9256 ppm	1.8535 ppm	0.0471 ppm	9.7792 ppm
Concentration per Run 1	0.0469 ppm	1.8427 ppm	0.1138 ppm	0.9177 ppm	1.8519 ppm	0.0471 ppm	9.7740 ppm
Concentration per Run 2	0.0459 ppm	1.8215 ppm	0.1158 ppm	0.9238 ppm	1.8539 ppm	0.0471 ppm	9.7826 ppm
Concentration per Run 3	0.0471 ppm	1.8097 ppm	0.1123 ppm	0.9351 ppm	1.8547 ppm	0.0471 ppm	9.7812 ppm
Concentration RSD	1.3 %	0.9 %	1.5 %	1.0 %	0.1 %	0.0 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0489 ppm	0.4654 ppm	0.1852 ppm	0.2323 ppm	0.9568 ppm	9.9025 ppm	0.0003 ppm
Concentration per Run 1	0.0482 ppm	0.4603 ppm	0.1845 ppm	0.2316 ppm	0.9580 ppm	9.8944 ppm	0.0010 ppm
Concentration per Run 2	0.0490 ppm	0.4647 ppm	0.1838 ppm	0.2322 ppm	0.9541 ppm	9.8875 ppm	0.0003 ppm
Concentration per Run 3	0.0494 ppm	0.4712 ppm	0.1873 ppm	0.2330 ppm	0.9583 ppm	9.9256 ppm	-0.0003 ppm
Concentration RSD	1.3 %	1.2 %	1.0 %	0.3 %	0.2 %	0.2 %	201.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.6502 ppm	0.4676 ppm	0.9838 ppm	9.9498 ppm	0.4666 ppm	0.5064 ppm	0.4669 ppm
Concentration per Run 1	9.6433 ppm	0.4688 ppm	0.9736 ppm	9.9542 ppm	0.4641 ppm	0.5060 ppm	0.4681 ppm
Concentration per Run 2	9.6230 ppm	0.4667 ppm	0.9840 ppm	9.9450 ppm	0.4643 ppm	0.5061 ppm	0.4617 ppm
Concentration per Run 3	9.6843 ppm	0.4674 ppm	0.9940 ppm	9.9501 ppm	0.4712 ppm	0.5070 ppm	0.4709 ppm
Concentration RSD	0.3 %	0.2 %	1.0 %	0.0 %	0.9 %	0.1 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1124 ppm	1.2965 ppm	0.9401 ppm	0.9137 ppm	0.9885 ppm	0.1141 ppm	0.4690 ppm
Concentration per Run 1	0.1121 ppm	1.2945 ppm	0.9311 ppm	0.9133 ppm	0.9869 ppm	0.1135 ppm	0.4668 ppm
Concentration per Run 2	0.1146 ppm	1.2887 ppm	0.9409 ppm	0.9122 ppm	0.9844 ppm	0.1145 ppm	0.4695 ppm
Concentration per Run 3	0.1105 ppm	1.3064 ppm	0.9482 ppm	0.9157 ppm	0.9941 ppm	0.1145 ppm	0.4707 ppm
Concentration RSD	1.9 %	0.7 %	0.9 %	0.2 %	0.5 %	0.5 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4630 ppm	111.5408 %	110.5830 %	108.8211 %	109.6796 %	109.3398 %	110.0504 %
Concentration per Run 1	0.4585 ppm	112.1536 %	110.9746 %	108.1190 %	110.5416 %	110.3898 %	109.5145 %
Concentration per Run 2	0.4629 ppm	111.6890 %	110.0345 %	108.9510 %	109.6867 %	109.1573 %	110.1861 %
Concentration per Run 3	0.4677 ppm	110.7798 %	110.7398 %	109.3933 %	108.8104 %	108.4723 %	110.4506 %
Concentration RSD	1.0 %	0.6 %	0.4 %	0.6 %	0.8 %	0.9 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454612-01 WG1976490
Analysis started at: 9/26/2024 10:38:05 AM
Rack 1
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0003 ppm	0.0043 ppm	0.0122 ppm	0.0563 ppm	0.0001 ppm	72.7238 ppm
Concentration per Run 1	-0.0008 ppm	0.0113 ppm	0.0051 ppm	0.0102 ppm	0.0565 ppm	0.0001 ppm	72.7731 ppm
Concentration per Run 2	-0.0003 ppm	-0.0036 ppm	0.0039 ppm	0.0148 ppm	0.0562 ppm	0.0001 ppm	72.8226 ppm
Concentration per Run 3	0.0000 ppm	-0.0066 ppm	0.0039 ppm	0.0116 ppm	0.0561 ppm	0.0001 ppm	72.5756 ppm
Concentration RSD	108.2 %	2,773.9 %	15.8 %	19.5 %	0.3 %	5.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0013 ppm	0.0002 ppm	0.0007 ppm	0.0127 ppm	0.3295 ppm	0.0023 ppm
Concentration per Run 1	-0.0002 ppm	0.0018 ppm	-0.0001 ppm	0.0008 ppm	0.0107 ppm	0.3650 ppm	0.0022 ppm
Concentration per Run 2	-0.0005 ppm	0.0003 ppm	0.0002 ppm	0.0006 ppm	0.0131 ppm	0.3022 ppm	0.0013 ppm
Concentration per Run 3	-0.0003 ppm	0.0017 ppm	0.0006 ppm	0.0006 ppm	0.0142 ppm	0.3214 ppm	0.0035 ppm
Concentration RSD	51.3 %	66.7 %	154.3 %	19.4 %	14.1 %	9.8 %	47.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.5575 ppm	0.2564 ppm	0.0022 ppm	133.5432 ppm	0.0030 ppm	0.0030 ppm	0.0044 ppm
Concentration per Run 1	1.5629 ppm	0.2569 ppm	0.0025 ppm	133.2049 ppm	0.0025 ppm	0.0042 ppm	0.0052 ppm
Concentration per Run 2	1.5529 ppm	0.2554 ppm	0.0021 ppm	134.1264 ppm	0.0027 ppm	0.0026 ppm	0.0005 ppm
Concentration per Run 3	1.5568 ppm	0.2569 ppm	0.0019 ppm	133.2982 ppm	0.0037 ppm	0.0023 ppm	0.0074 ppm
Concentration RSD	0.3 %	0.3 %	14.2 %	0.4 %	21.2 %	34.4 %	80.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	2.1297 ppm	-0.0010 ppm	0.1291 ppm	0.0006 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 1	0.0025 ppm	2.1349 ppm	-0.0012 ppm	0.1297 ppm	0.0006 ppm	0.0008 ppm	0.0005 ppm
Concentration per Run 2	-0.0017 ppm	2.1224 ppm	-0.0006 ppm	0.1288 ppm	0.0008 ppm	-0.0005 ppm	0.0003 ppm
Concentration per Run 3	0.0039 ppm	2.1319 ppm	-0.0012 ppm	0.1288 ppm	0.0003 ppm	-0.0002 ppm	0.0005 ppm
Concentration RSD	185.3 %	0.3 %	38.2 %	0.4 %	41.5 %	3,091.0 %	28.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0199 ppm	107.6348 %	108.2304 %	101.2535 %	105.5293 %	107.3024 %	106.1377 %
Concentration per Run 1	0.0203 ppm	107.1390 %	107.6677 %	100.9594 %	105.0526 %	106.6528 %	105.8760 %
Concentration per Run 2	0.0194 ppm	108.4311 %	108.2833 %	101.3076 %	106.2636 %	107.7100 %	106.3249 %
Concentration per Run 3	0.0199 ppm	107.3344 %	108.7403 %	101.4936 %	105.2718 %	107.5444 %	106.2122 %
Concentration RSD	2.3 %	0.6 %	0.5 %	0.3 %	0.6 %	0.5 %	0.2 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976490-3 WG1976490
Analysis started at: 9/26/2024 10:41:57 AM
Rack 1
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0451 ppm	1.8141 ppm	0.1162 ppm	0.9071 ppm	1.8575 ppm	0.0464 ppm	78.2442 ppm
Concentration per Run 1	0.0450 ppm	1.8147 ppm	0.1152 ppm	0.9019 ppm	1.8470 ppm	0.0463 ppm	77.7733 ppm
Concentration per Run 2	0.0446 ppm	1.8135 ppm	0.1159 ppm	0.9006 ppm	1.8651 ppm	0.0464 ppm	78.1693 ppm
Concentration per Run 3	0.0457 ppm	1.8142 ppm	0.1173 ppm	0.9187 ppm	1.8604 ppm	0.0466 ppm	78.7900 ppm
Concentration RSD	1.2 %	0.0 %	0.9 %	1.1 %	0.5 %	0.3 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0473 ppm	0.4491 ppm	0.1800 ppm	0.2270 ppm	0.9423 ppm	10.0156 ppm	0.0019 ppm
Concentration per Run 1	0.0479 ppm	0.4486 ppm	0.1796 ppm	0.2251 ppm	0.9351 ppm	9.9801 ppm	0.0023 ppm
Concentration per Run 2	0.0470 ppm	0.4472 ppm	0.1797 ppm	0.2260 ppm	0.9460 ppm	10.0212 ppm	0.0010 ppm
Concentration per Run 3	0.0470 ppm	0.4514 ppm	0.1806 ppm	0.2299 ppm	0.9457 ppm	10.0455 ppm	0.0024 ppm
Concentration RSD	1.1 %	0.5 %	0.3 %	1.1 %	0.7 %	0.3 %	41.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.4819 ppm	0.7004 ppm	0.9649 ppm	136.3927 ppm	0.4462 ppm	0.4937 ppm	0.4565 ppm
Concentration per Run 1	10.4309 ppm	0.6982 ppm	0.9584 ppm	135.8610 ppm	0.4416 ppm	0.4932 ppm	0.4510 ppm
Concentration per Run 2	10.4756 ppm	0.6976 ppm	0.9606 ppm	136.6856 ppm	0.4460 ppm	0.4933 ppm	0.4556 ppm
Concentration per Run 3	10.5394 ppm	0.7054 ppm	0.9757 ppm	136.6314 ppm	0.4511 ppm	0.4947 ppm	0.4628 ppm
Concentration RSD	0.5 %	0.6 %	1.0 %	0.3 %	1.1 %	0.2 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1141 ppm	3.3783 ppm	0.9076 ppm	1.0067 ppm	0.9609 ppm	0.1076 ppm	0.4659 ppm
Concentration per Run 1	0.1127 ppm	3.3716 ppm	0.9041 ppm	1.0000 ppm	0.9530 ppm	0.1080 ppm	0.4638 ppm
Concentration per Run 2	0.1128 ppm	3.3608 ppm	0.9059 ppm	1.0106 ppm	0.9608 ppm	0.1077 ppm	0.4642 ppm
Concentration per Run 3	0.1170 ppm	3.4024 ppm	0.9128 ppm	1.0094 ppm	0.9691 ppm	0.1071 ppm	0.4696 ppm
Concentration RSD	2.2 %	0.6 %	0.5 %	0.6 %	0.8 %	0.4 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4769 ppm	108.1997 %	109.2986 %	101.5839 %	106.2842 %	107.7091 %	106.0857 %
Concentration per Run 1	0.4744 ppm	107.8958 %	109.2212 %	101.9260 %	106.0004 %	107.6887 %	106.6075 %
Concentration per Run 2	0.4754 ppm	108.9617 %	109.7458 %	101.1761 %	107.1457 %	108.0047 %	105.5039 %
Concentration per Run 3	0.4809 ppm	107.7417 %	108.9287 %	101.6496 %	105.7066 %	107.4340 %	106.1457 %
Concentration RSD	0.7 %	0.6 %	0.4 %	0.4 %	0.7 %	0.3 %	0.5 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976490-4 WG1976490
Analysis started at: 9/26/2024 10:45:49 AM
Rack 1
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0057 ppm	0.0025 ppm	0.0103 ppm	0.0547 ppm	0.0001 ppm	70.9377 ppm
Concentration per Run 1	-0.0001 ppm	0.0014 ppm	0.0009 ppm	0.0122 ppm	0.0544 ppm	0.0001 ppm	70.8172 ppm
Concentration per Run 2	0.0002 ppm	0.0065 ppm	0.0050 ppm	0.0088 ppm	0.0546 ppm	0.0001 ppm	70.9094 ppm
Concentration per Run 3	-0.0006 ppm	0.0091 ppm	0.0016 ppm	0.0100 ppm	0.0550 ppm	0.0001 ppm	71.0865 ppm
Concentration RSD	217.7 %	69.2 %	88.1 %	16.6 %	0.6 %	13.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0019 ppm	0.0004 ppm	0.0005 ppm	0.0122 ppm	0.3153 ppm	0.0025 ppm
Concentration per Run 1	-0.0005 ppm	0.0018 ppm	-0.0002 ppm	0.0009 ppm	0.0123 ppm	0.3034 ppm	0.0028 ppm
Concentration per Run 2	-0.0003 ppm	0.0024 ppm	0.0007 ppm	0.0004 ppm	0.0116 ppm	0.3055 ppm	0.0035 ppm
Concentration per Run 3	-0.0002 ppm	0.0015 ppm	0.0008 ppm	0.0004 ppm	0.0126 ppm	0.3371 ppm	0.0012 ppm
Concentration RSD	49.3 %	22.7 %	121.1 %	58.4 %	4.1 %	6.0 %	46.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.5128 ppm	0.2502 ppm	0.0023 ppm	130.5304 ppm	0.0030 ppm	0.0030 ppm	-0.0006 ppm
Concentration per Run 1	1.5081 ppm	0.2503 ppm	0.0031 ppm	129.9701 ppm	0.0032 ppm	0.0036 ppm	0.0009 ppm
Concentration per Run 2	1.5163 ppm	0.2500 ppm	0.0017 ppm	130.4457 ppm	0.0036 ppm	0.0015 ppm	0.0021 ppm
Concentration per Run 3	1.5139 ppm	0.2504 ppm	0.0021 ppm	131.1753 ppm	0.0022 ppm	0.0039 ppm	-0.0049 ppm
Concentration RSD	0.3 %	0.1 %	31.0 %	0.5 %	25.0 %	42.7 %	598.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0052 ppm	2.0617 ppm	-0.0005 ppm	0.1256 ppm	0.0005 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 1	0.0046 ppm	2.0478 ppm	0.0003 ppm	0.1250 ppm	0.0004 ppm	0.0014 ppm	0.0003 ppm
Concentration per Run 2	0.0074 ppm	2.0744 ppm	-0.0016 ppm	0.1257 ppm	0.0007 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 3	0.0035 ppm	2.0629 ppm	-0.0001 ppm	0.1261 ppm	0.0006 ppm	-0.0004 ppm	0.0004 ppm
Concentration RSD	39.1 %	0.6 %	198.0 %	0.5 %	30.0 %	303.1 %	16.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0196 ppm	107.8424 %	108.6974 %	102.5384 %	106.0147 %	107.5552 %	107.1773 %
Concentration per Run 1	0.0199 ppm	107.1024 %	109.3645 %	103.5602 %	105.3302 %	108.2852 %	108.1801 %
Concentration per Run 2	0.0196 ppm	108.1486 %	108.1302 %	102.3374 %	106.1300 %	107.0084 %	106.9775 %
Concentration per Run 3	0.0192 ppm	108.2762 %	108.5976 %	101.7176 %	106.5838 %	107.3720 %	106.3742 %
Concentration RSD	2.0 %	0.6 %	0.6 %	0.9 %	0.6 %	0.6 %	0.9 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 10:49:40 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5075 ppm	0.4825 ppm	0.4813 ppm	0.4981 ppm	0.4961 ppm	0.5083 ppm	0.4916 ppm
Concentration per Run 1	0.5071 ppm	0.4876 ppm	0.4809 ppm	0.4960 ppm	0.4967 ppm	0.5103 ppm	0.4917 ppm
Concentration per Run 2	0.5081 ppm	0.4722 ppm	0.4785 ppm	0.4995 ppm	0.4947 ppm	0.5072 ppm	0.4923 ppm
Concentration per Run 3	0.5074 ppm	0.4876 ppm	0.4843 ppm	0.4988 ppm	0.4969 ppm	0.5073 ppm	0.4909 ppm
Recovery Percentage 1	101.510 %	96.500 %	96.255 %	99.613 %	99.227 %	101.652 %	98.323 %
Concentration RSD	0.1 %	1.8 %	0.6 %	0.4 %	0.2 %	0.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5006 ppm	0.5091 ppm	0.4918 ppm	0.4902 ppm	0.5001 ppm	5.1846 ppm	0.4885 ppm
Concentration per Run 1	0.5051 ppm	0.5092 ppm	0.4935 ppm	0.4902 ppm	0.5030 ppm	5.2439 ppm	0.4867 ppm
Concentration per Run 2	0.4927 ppm	0.5067 ppm	0.4897 ppm	0.4906 ppm	0.4958 ppm	5.1675 ppm	0.4885 ppm
Concentration per Run 3	0.5041 ppm	0.5114 ppm	0.4921 ppm	0.4899 ppm	0.5013 ppm	5.1425 ppm	0.4904 ppm
Recovery Percentage 1	100.129 %	101.823 %	98.353 %	98.044 %	100.016 %	103.692 %	97.708 %
Concentration RSD	1.4 %	0.5 %	0.4 %	0.1 %	0.8 %	1.0 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4894 ppm	0.4909 ppm	0.4865 ppm	9.9801 ppm	0.5090 ppm	0.4951 ppm	0.5052 ppm
Concentration per Run 1	0.4875 ppm	0.4914 ppm	0.4833 ppm	9.9401 ppm	0.5075 ppm	0.4921 ppm	0.5109 ppm
Concentration per Run 2	0.4872 ppm	0.4917 ppm	0.4873 ppm	10.0402 ppm	0.5103 ppm	0.4960 ppm	0.5009 ppm
Concentration per Run 3	0.4933 ppm	0.4894 ppm	0.4889 ppm	9.9599 ppm	0.5090 ppm	0.4973 ppm	0.5037 ppm
Recovery Percentage 1	97.871 %	98.170 %	97.299 %	99.801 %	101.791 %	99.021 %	101.035 %
Concentration RSD	0.7 %	0.3 %	0.6 %	0.5 %	0.3 %	0.5 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4995 ppm	5.3433 ppm	0.4766 ppm	0.4709 ppm	0.4996 ppm	0.4968 ppm	0.4881 ppm
Concentration per Run 1	0.4972 ppm	5.3810 ppm	0.4749 ppm	0.4721 ppm	0.4985 ppm	0.4941 ppm	0.4877 ppm
Concentration per Run 2	0.4965 ppm	5.3170 ppm	0.4757 ppm	0.4697 ppm	0.4995 ppm	0.4949 ppm	0.4875 ppm
Concentration per Run 3	0.5047 ppm	5.3319 ppm	0.4791 ppm	0.4711 ppm	0.5008 ppm	0.5014 ppm	0.4890 ppm
Recovery Percentage 1	99.897 %	101.777 %	95.316 %	94.189 %	99.923 %	99.357 %	97.610 %
Concentration RSD	0.9 %	0.6 %	0.5 %	0.3 %	0.2 %	0.8 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5096 ppm	108.3377 %	104.8809 %	107.3710 %	106.8841 %	103.5566 %	107.0428 %
Concentration per Run 1	0.5100 ppm	108.3917 %	105.9221 %	106.6510 %	107.0062 %	104.8056 %	106.0343 %
Concentration per Run 2	0.5100 ppm	109.0245 %	104.1407 %	108.4869 %	107.7834 %	103.1315 %	108.1211 %
Concentration per Run 3	0.5088 ppm	107.5970 %	104.5801 %	106.9750 %	105.8627 %	102.7328 %	106.9730 %
Recovery Percentage 1	101.922 %						
Concentration RSD	0.1 %	0.7 %	0.9 %	0.9 %	0.9 %	1.1 %	1.0 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 10:53:34 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0015 ppm	0.0013 ppm	0.0030 ppm	0.0001 ppm	0.0000 ppm	-0.0031 ppm
Concentration per Run 1	-0.0001 ppm	-0.0034 ppm	0.0013 ppm	0.0017 ppm	0.0001 ppm	0.0000 ppm	-0.0013 ppm
Concentration per Run 2	0.0001 ppm	-0.0019 ppm	0.0012 ppm	0.0028 ppm	0.0002 ppm	0.0001 ppm	-0.0042 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	0.0015 ppm	0.0045 ppm	0.0000 ppm	0.0001 ppm	-0.0038 ppm
Recovery Percentage 1	-0.619 %	-1.475 %	25.976 %	9.963 %	1.070 %	1.155 %	-3.109 %
Concentration RSD	226.0 %	144.7 %	10.5 %	46.5 %	90.0 %	52.2 %	50.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0004 ppm	0.0003 ppm	-0.0005 ppm	-0.0014 ppm	0.0196 ppm	0.0006 ppm
Concentration per Run 1	-0.0003 ppm	0.0004 ppm	-0.0001 ppm	-0.0003 ppm	0.0006 ppm	0.0499 ppm	0.0010 ppm
Concentration per Run 2	-0.0001 ppm	0.0009 ppm	0.0003 ppm	-0.0004 ppm	-0.0043 ppm	0.0089 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0007 ppm	-0.0006 ppm	-0.0005 ppm	0.0001 ppm	0.0009 ppm
Recovery Percentage 1	-2.537 %	1.975 %	3.139 %	-4.554 %	-2.854 %	0.784 %	11.724 %
Concentration RSD	104.5 %	120.4 %	116.4 %	33.7 %	178.9 %	135.7 %	107.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0028 ppm	0.0000 ppm	0.0011 ppm	-0.0013 ppm	0.0007 ppm	0.0012 ppm	0.0017 ppm
Concentration per Run 1	0.0025 ppm	0.0002 ppm	0.0015 ppm	0.0012 ppm	0.0003 ppm	0.0022 ppm	-0.0016 ppm
Concentration per Run 2	0.0031 ppm	-0.0001 ppm	0.0007 ppm	-0.0059 ppm	0.0008 ppm	0.0003 ppm	0.0029 ppm
Concentration per Run 3	0.0028 ppm	-0.0001 ppm	0.0011 ppm	0.0006 ppm	0.0011 ppm	0.0011 ppm	0.0039 ppm
Recovery Percentage 1	2.782 %	-0.213 %	2.182 %	-0.067 %	2.934 %	12.046 %	3.483 %
Concentration RSD	10.7 %	718.5 %	36.8 %	292.3 %	50.5 %	79.6 %	169.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	-0.0021 ppm	-0.0008 ppm	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 1	0.0014 ppm	-0.0045 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0006 ppm
Concentration per Run 2	0.0028 ppm	-0.0045 ppm	-0.0018 ppm	-0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0005 ppm
Concentration per Run 3	0.0025 ppm	0.0027 ppm	-0.0008 ppm	0.0000 ppm	-0.0004 ppm	0.0013 ppm	0.0005 ppm
Recovery Percentage 1	22.408 %	-0.416 %	-1.697 %	-0.112 %	-2.038 %	3.110 %	5.269 %
Concentration RSD	32.6 %	199.8 %	106.6 %	516.3 %	95.1 %	111.6 %	16.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	106.9048 %	102.1873 %	107.5908 %	107.5247 %	101.9915 %	108.3499 %
Concentration per Run 1	0.0002 ppm	106.6388 %	102.4329 %	106.8227 %	107.3363 %	102.3807 %	107.7951 %
Concentration per Run 2	-0.0001 ppm	107.5497 %	102.6651 %	107.7123 %	108.2961 %	102.4637 %	108.4301 %
Concentration per Run 3	0.0004 ppm	106.5258 %	101.4640 %	108.2373 %	106.9417 %	101.1301 %	108.8245 %
Recovery Percentage 1	3.324 %						
Concentration RSD	154.3 %	0.5 %	0.6 %	0.7 %	0.6 %	0.7 %	0.5 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976309-2d2 WG1976309
Analysis started at: 9/26/2024 11:10:31 AM
Rack 1
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.2762 ppm	20.6957 ppm	1.2437 ppm	0.9210 ppm	1.2145 ppm	0.6937 ppm	20.1733 ppm
Concentration per Run 1	0.2741 ppm	20.6474 ppm	1.2301 ppm	0.9166 ppm	1.2098 ppm	0.6906 ppm	20.0732 ppm
Concentration per Run 2	0.2717 ppm	20.7132 ppm	1.2512 ppm	0.9196 ppm	1.2106 ppm	0.6936 ppm	20.2134 ppm
Concentration per Run 3	0.2827 ppm	20.7265 ppm	1.2497 ppm	0.9269 ppm	1.2229 ppm	0.6968 ppm	20.2333 ppm
Concentration RSD	2.1 %	0.2 %	0.9 %	0.6 %	0.6 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8594 ppm	0.3268 ppm	0.7092 ppm	0.8413 ppm	24.6455 ppm	4.8135 ppm	0.5187 ppm
Concentration per Run 1	0.8511 ppm	0.3240 ppm	0.7017 ppm	0.8389 ppm	24.5547 ppm	4.8258 ppm	0.5181 ppm
Concentration per Run 2	0.8613 ppm	0.3270 ppm	0.7085 ppm	0.8357 ppm	24.6562 ppm	4.8119 ppm	0.5171 ppm
Concentration per Run 3	0.8657 ppm	0.3294 ppm	0.7173 ppm	0.8494 ppm	24.7255 ppm	4.8027 ppm	0.5210 ppm
Concentration RSD	0.9 %	0.8 %	1.1 %	0.8 %	0.3 %	0.2 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.0071 ppm	2.1442 ppm	0.5099 ppm	7.0992 ppm	1.2604 ppm	0.3703 ppm	0.6633 ppm
Concentration per Run 1	5.9485 ppm	2.1374 ppm	0.5025 ppm	7.0697 ppm	1.2485 ppm	0.3658 ppm	0.6626 ppm
Concentration per Run 2	6.0031 ppm	2.1443 ppm	0.5089 ppm	7.1081 ppm	1.2596 ppm	0.3711 ppm	0.6589 ppm
Concentration per Run 3	6.0697 ppm	2.1509 ppm	0.5182 ppm	7.1197 ppm	1.2729 ppm	0.3740 ppm	0.6685 ppm
Concentration RSD	1.0 %	0.3 %	1.5 %	0.4 %	1.0 %	1.1 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6907 ppm	9.9042 ppm	0.2679 ppm	0.5274 ppm	1.1271 ppm	0.8682 ppm	0.4032 ppm
Concentration per Run 1	0.6887 ppm	9.7656 ppm	0.2664 ppm	0.5245 ppm	1.1038 ppm	0.8622 ppm	0.3993 ppm
Concentration per Run 2	0.6895 ppm	10.0145 ppm	0.2671 ppm	0.5264 ppm	1.1439 ppm	0.8668 ppm	0.4034 ppm
Concentration per Run 3	0.6940 ppm	9.9326 ppm	0.2701 ppm	0.5312 ppm	1.1337 ppm	0.8757 ppm	0.4070 ppm
Concentration RSD	0.4 %	1.3 %	0.7 %	0.7 %	1.8 %	0.8 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6660 ppm	106.5598 %	105.1691 %	104.4605 %	107.7958 %	109.3198 %	109.1780 %
Concentration per Run 1	0.6610 ppm	107.0894 %	106.5488 %	104.7476 %	107.7029 %	110.7417 %	109.1462 %
Concentration per Run 2	0.6661 ppm	107.0873 %	104.6333 %	104.1037 %	108.5068 %	108.9020 %	109.2138 %
Concentration per Run 3	0.6709 ppm	105.5026 %	104.3251 %	104.5302 %	107.1777 %	108.3157 %	109.1740 %
Concentration RSD	0.7 %	0.9 %	1.1 %	0.3 %	0.6 %	1.2 %	0.0 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976309-3d2 WG1976309
Analysis started at: 9/26/2024 11:15:38 AM
Rack 1
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.2604 ppm	19.7657 ppm	1.2305 ppm	0.9222 ppm	1.2787 ppm	0.6744 ppm	19.8379 ppm
Concentration per Run 1	0.2562 ppm	19.7496 ppm	1.2267 ppm	0.9244 ppm	1.2681 ppm	0.6699 ppm	19.7597 ppm
Concentration per Run 2	0.2583 ppm	19.7714 ppm	1.2266 ppm	0.9154 ppm	1.2809 ppm	0.6770 ppm	19.9058 ppm
Concentration per Run 3	0.2667 ppm	19.7762 ppm	1.2381 ppm	0.9269 ppm	1.2870 ppm	0.6762 ppm	19.8482 ppm
Concentration RSD	2.1 %	0.1 %	0.5 %	0.7 %	0.8 %	0.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8321 ppm	0.3246 ppm	0.7068 ppm	0.8193 ppm	23.5748 ppm	4.5903 ppm	0.5096 ppm
Concentration per Run 1	0.8291 ppm	0.3244 ppm	0.7047 ppm	0.8186 ppm	23.4230 ppm	4.5738 ppm	0.5048 ppm
Concentration per Run 2	0.8274 ppm	0.3227 ppm	0.7080 ppm	0.8185 ppm	23.6485 ppm	4.6120 ppm	0.5076 ppm
Concentration per Run 3	0.8398 ppm	0.3268 ppm	0.7078 ppm	0.8209 ppm	23.6528 ppm	4.5850 ppm	0.5162 ppm
Concentration RSD	0.8 %	0.6 %	0.3 %	0.2 %	0.6 %	0.4 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.9016 ppm	2.1838 ppm	0.5113 ppm	7.0758 ppm	1.2499 ppm	0.3712 ppm	0.6704 ppm
Concentration per Run 1	5.8778 ppm	2.1791 ppm	0.5058 ppm	7.0490 ppm	1.2493 ppm	0.3682 ppm	0.6665 ppm
Concentration per Run 2	5.8993 ppm	2.1845 ppm	0.5113 ppm	7.0807 ppm	1.2483 ppm	0.3696 ppm	0.6794 ppm
Concentration per Run 3	5.9278 ppm	2.1878 ppm	0.5169 ppm	7.0976 ppm	1.2522 ppm	0.3759 ppm	0.6651 ppm
Concentration RSD	0.4 %	0.2 %	1.1 %	0.3 %	0.2 %	1.1 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6822 ppm	9.4501 ppm	0.2740 ppm	0.5282 ppm	1.1140 ppm	0.8187 ppm	0.3983 ppm
Concentration per Run 1	0.6817 ppm	9.4627 ppm	0.2739 ppm	0.5248 ppm	1.1109 ppm	0.8153 ppm	0.3983 ppm
Concentration per Run 2	0.6831 ppm	9.3354 ppm	0.2734 ppm	0.5292 ppm	1.1064 ppm	0.8184 ppm	0.3964 ppm
Concentration per Run 3	0.6819 ppm	9.5521 ppm	0.2747 ppm	0.5306 ppm	1.1248 ppm	0.8225 ppm	0.4003 ppm
Concentration RSD	0.1 %	1.2 %	0.2 %	0.6 %	0.9 %	0.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6611 ppm	106.5335 %	105.5618 %	104.7012 %	108.3434 %	109.5218 %	110.0571 %
Concentration per Run 1	0.6620 ppm	106.1508 %	106.4553 %	104.8040 %	107.4151 %	110.5147 %	109.7623 %
Concentration per Run 2	0.6595 ppm	106.7465 %	105.0296 %	104.3152 %	108.6754 %	109.2186 %	109.7576 %
Concentration per Run 3	0.6618 ppm	106.7033 %	105.2007 %	104.9842 %	108.9397 %	108.8321 %	110.6513 %
Concentration RSD	0.2 %	0.3 %	0.7 %	0.3 %	0.8 %	0.8 %	0.5 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 11:20:13 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5073 ppm	0.4794 ppm	0.4842 ppm	0.4993 ppm	0.4994 ppm	0.5104 ppm	0.4961 ppm
Concentration per Run 1	0.5080 ppm	0.4742 ppm	0.4861 ppm	0.4984 ppm	0.5004 ppm	0.5110 ppm	0.4986 ppm
Concentration per Run 2	0.5063 ppm	0.4786 ppm	0.4825 ppm	0.5023 ppm	0.5010 ppm	0.5107 ppm	0.5016 ppm
Concentration per Run 3	0.5075 ppm	0.4855 ppm	0.4838 ppm	0.4973 ppm	0.4967 ppm	0.5097 ppm	0.4882 ppm
Recovery Percentage 1	101.455 %	95.882 %	96.833 %	99.867 %	99.873 %	102.088 %	99.220 %
Concentration RSD	0.2 %	1.2 %	0.4 %	0.5 %	0.5 %	0.1 %	1.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4947 ppm	0.5071 ppm	0.4914 ppm	0.4899 ppm	0.5051 ppm	5.2065 ppm	0.4882 ppm
Concentration per Run 1	0.4980 ppm	0.5094 ppm	0.4909 ppm	0.4885 ppm	0.5017 ppm	5.2070 ppm	0.4862 ppm
Concentration per Run 2	0.4968 ppm	0.5099 ppm	0.4908 ppm	0.4930 ppm	0.5077 ppm	5.2055 ppm	0.4890 ppm
Concentration per Run 3	0.4892 ppm	0.5020 ppm	0.4925 ppm	0.4883 ppm	0.5058 ppm	5.2071 ppm	0.4894 ppm
Recovery Percentage 1	98.931 %	101.419 %	98.282 %	97.987 %	101.018 %	104.131 %	97.633 %
Concentration RSD	1.0 %	0.9 %	0.2 %	0.5 %	0.6 %	0.0 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4886 ppm	0.4926 ppm	0.4874 ppm	10.0763 ppm	0.5104 ppm	0.4990 ppm	0.5055 ppm
Concentration per Run 1	0.4881 ppm	0.4929 ppm	0.4866 ppm	10.0910 ppm	0.5110 ppm	0.4994 ppm	0.5068 ppm
Concentration per Run 2	0.4894 ppm	0.4935 ppm	0.4928 ppm	10.1072 ppm	0.5119 ppm	0.4970 ppm	0.5055 ppm
Concentration per Run 3	0.4884 ppm	0.4913 ppm	0.4827 ppm	10.0308 ppm	0.5081 ppm	0.5005 ppm	0.5043 ppm
Recovery Percentage 1	97.725 %	98.513 %	97.473 %	100.763 %	102.074 %	99.795 %	101.109 %
Concentration RSD	0.1 %	0.2 %	1.0 %	0.4 %	0.4 %	0.4 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4995 ppm	5.3431 ppm	0.4776 ppm	0.4760 ppm	0.5001 ppm	0.4986 ppm	0.4891 ppm
Concentration per Run 1	0.4997 ppm	5.3390 ppm	0.4759 ppm	0.4781 ppm	0.5008 ppm	0.5001 ppm	0.4890 ppm
Concentration per Run 2	0.4991 ppm	5.3661 ppm	0.4817 ppm	0.4769 ppm	0.4975 ppm	0.4941 ppm	0.4900 ppm
Concentration per Run 3	0.4998 ppm	5.3241 ppm	0.4753 ppm	0.4729 ppm	0.5019 ppm	0.5015 ppm	0.4884 ppm
Recovery Percentage 1	99.907 %	101.773 %	95.529 %	95.199 %	100.014 %	99.714 %	97.822 %
Concentration RSD	0.1 %	0.4 %	0.7 %	0.6 %	0.5 %	0.8 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5112 ppm	108.3208 %	104.3760 %	107.3066 %	106.6536 %	103.0890 %	107.0819 %
Concentration per Run 1	0.5118 ppm	109.5388 %	103.9303 %	106.8373 %	107.6050 %	102.6600 %	107.0134 %
Concentration per Run 2	0.5141 ppm	108.6425 %	104.1174 %	108.2001 %	107.3750 %	103.0438 %	107.7903 %
Concentration per Run 3	0.5077 ppm	106.7811 %	105.0802 %	106.8823 %	104.9807 %	103.5631 %	106.4422 %
Recovery Percentage 1	102.238 %						
Concentration RSD	0.6 %	1.3 %	0.6 %	0.7 %	1.4 %	0.4 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 11:24:07 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	-0.0007 ppm	0.0023 ppm	0.0002 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 1	-0.0006 ppm	-0.0026 ppm	-0.0007 ppm	0.0029 ppm	0.0001 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 2	-0.0002 ppm	-0.0024 ppm	0.0000 ppm	0.0019 ppm	0.0002 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 3	0.0004 ppm	0.0045 ppm	-0.0013 ppm	0.0021 ppm	0.0002 ppm	0.0000 ppm	-0.0032 ppm
Recovery Percentage 1	-1.625 %	-0.170 %	-13.351 %	7.703 %	1.776 %	0.320 %	-1.064 %
Concentration RSD	429.7 %	2,373.0 %	93.2 %	24.0 %	14.5 %	276.2 %	200.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0005 ppm	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0220 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0012 ppm	0.0506 ppm	0.0021 ppm
Concentration per Run 2	-0.0002 ppm	0.0008 ppm	-0.0002 ppm	-0.0006 ppm	-0.0008 ppm	0.0165 ppm	-0.0018 ppm
Concentration per Run 3	0.0002 ppm	0.0006 ppm	-0.0002 ppm	-0.0003 ppm	0.0020 ppm	-0.0011 ppm	0.0012 ppm
Recovery Percentage 1	0.039 %	2.321 %	-0.787 %	-3.214 %	-0.049 %	0.880 %	9.843 %
Concentration RSD	9,227.6 %	90.3 %	170.2 %	79.9 %	7,149.0 %	119.4 %	415.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0024 ppm	-0.0001 ppm	0.0010 ppm	-0.0124 ppm	0.0010 ppm	0.0019 ppm	0.0016 ppm
Concentration per Run 1	0.0004 ppm	-0.0001 ppm	0.0009 ppm	-0.0127 ppm	0.0011 ppm	0.0030 ppm	0.0005 ppm
Concentration per Run 2	0.0038 ppm	-0.0003 ppm	0.0010 ppm	-0.0134 ppm	0.0008 ppm	0.0016 ppm	-0.0007 ppm
Concentration per Run 3	0.0030 ppm	-0.0001 ppm	0.0011 ppm	-0.0112 ppm	0.0011 ppm	0.0010 ppm	0.0050 ppm
Recovery Percentage 1	2.441 %	-1.316 %	1.991 %	-0.622 %	3.940 %	18.608 %	3.108 %
Concentration RSD	72.7 %	86.0 %	9.7 %	8.7 %	18.7 %	53.3 %	193.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0039 ppm	-0.0033 ppm	-0.0009 ppm	0.0001 ppm	0.0002 ppm	0.0015 ppm	0.0002 ppm
Concentration per Run 1	0.0030 ppm	-0.0026 ppm	-0.0004 ppm	0.0001 ppm	0.0003 ppm	0.0025 ppm	0.0002 ppm
Concentration per Run 2	0.0025 ppm	-0.0020 ppm	-0.0023 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 3	0.0061 ppm	-0.0052 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0015 ppm	0.0003 ppm
Recovery Percentage 1	38.851 %	-0.651 %	-1.842 %	0.548 %	1.599 %	7.554 %	2.369 %
Concentration RSD	50.5 %	51.3 %	129.2 %	42.0 %	62.5 %	62.6 %	19.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	107.4472 %	102.0490 %	107.0198 %	107.7528 %	101.7382 %	107.5881 %
Concentration per Run 1	0.0000 ppm	108.0401 %	101.9870 %	107.9410 %	108.4360 %	102.0271 %	108.4437 %
Concentration per Run 2	0.0003 ppm	107.3890 %	102.4643 %	106.3351 %	107.9150 %	102.2468 %	106.8408 %
Concentration per Run 3	0.0001 ppm	106.9125 %	101.6956 %	106.7834 %	106.9075 %	100.9407 %	107.4798 %
Recovery Percentage 1	3.044 %						
Concentration RSD	100.2 %	0.5 %	0.4 %	0.8 %	0.7 %	0.7 %	0.8 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-01d2 WG1975362
Analysis started at: 9/26/2024 11:31:13 AM
Rack 1
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	233.4467 ppm	0.0609 ppm	0.0039 ppm	2.0980 ppm	0.0173 ppm	31.2572 ppm
Concentration per Run 1	0.0010 ppm	233.8524 ppm	0.0552 ppm	0.0045 ppm	2.0983 ppm	0.0173 ppm	31.2220 ppm
Concentration per Run 2	0.0011 ppm	231.9846 ppm	0.0641 ppm	0.0028 ppm	2.0908 ppm	0.0174 ppm	31.2030 ppm
Concentration per Run 3	0.0008 ppm	234.5030 ppm	0.0632 ppm	0.0043 ppm	2.1049 ppm	0.0174 ppm	31.3466 ppm
Concentration RSD	15.6 %	0.6 %	8.0 %	24.3 %	0.3 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0028 ppm	0.0485 ppm	0.1592 ppm	0.0648 ppm	92.0016 ppm	4.1859 ppm	0.1455 ppm
Concentration per Run 1	0.0028 ppm	0.0486 ppm	0.1596 ppm	0.0641 ppm	91.8518 ppm	4.1990 ppm	0.1445 ppm
Concentration per Run 2	0.0030 ppm	0.0481 ppm	0.1589 ppm	0.0659 ppm	91.8471 ppm	4.1542 ppm	0.1457 ppm
Concentration per Run 3	0.0026 ppm	0.0487 ppm	0.1591 ppm	0.0645 ppm	92.3060 ppm	4.2046 ppm	0.1464 ppm
Concentration RSD	5.7 %	0.7 %	0.2 %	1.4 %	0.3 %	0.7 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	23.4353 ppm	2.5481 ppm	0.0019 ppm	0.5355 ppm	0.1425 ppm	0.0967 ppm	-0.0053 ppm
Concentration per Run 1	23.3958 ppm	2.5423 ppm	0.0020 ppm	0.5441 ppm	0.1430 ppm	0.0938 ppm	-0.0049 ppm
Concentration per Run 2	23.3826 ppm	2.5441 ppm	0.0019 ppm	0.5301 ppm	0.1429 ppm	0.0970 ppm	-0.0029 ppm
Concentration per Run 3	23.5274 ppm	2.5580 ppm	0.0019 ppm	0.5324 ppm	0.1416 ppm	0.0993 ppm	-0.0081 ppm
Concentration RSD	0.3 %	0.3 %	4.3 %	1.4 %	0.5 %	2.9 %	49.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0041 ppm	7.9643 ppm	0.0111 ppm	0.2536 ppm	2.0245 ppm	0.0085 ppm	0.1271 ppm
Concentration per Run 1	0.0051 ppm	7.9170 ppm	0.0101 ppm	0.2535 ppm	2.0357 ppm	0.0085 ppm	0.1269 ppm
Concentration per Run 2	0.0029 ppm	7.9715 ppm	0.0121 ppm	0.2532 ppm	2.0150 ppm	0.0087 ppm	0.1271 ppm
Concentration per Run 3	0.0045 ppm	8.0044 ppm	0.0112 ppm	0.2542 ppm	2.0229 ppm	0.0084 ppm	0.1273 ppm
Concentration RSD	27.5 %	0.6 %	9.3 %	0.2 %	0.5 %	1.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5156 ppm	109.3665 %	110.6069 %	102.9376 %	**336.8954 %**	**357.6033 %**	**344.0192 %**
Concentration per Run 1	0.5151 ppm	109.2776 %	110.8040 %	103.0410 %	**334.9061 %**	**358.7743 %**	**345.0187 %**
Concentration per Run 2	0.5151 ppm	109.4911 %	110.2309 %	102.5558 %	**338.5222 %**	**354.7945 %**	**342.2421 %**
Concentration per Run 3	0.5166 ppm	109.3308 %	110.7856 %	103.2159 %	**337.2580 %**	**359.2410 %**	**344.7968 %**
Concentration RSD	0.2 %	0.1 %	0.3 %	0.3 %	**0.5 %**	**0.7 %**	**0.4 %**

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-02d2 WG1975362
Analysis started at: 9/26/2024 11:35:18 AM
Rack 1
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	47.2018 ppm	0.0128 ppm	0.0058 ppm	0.2845 ppm	0.0029 ppm	11.5923 ppm
Concentration per Run 1	0.0010 ppm	47.3258 ppm	0.0144 ppm	0.0047 ppm	0.2839 ppm	0.0029 ppm	11.5960 ppm
Concentration per Run 2	0.0005 ppm	47.0992 ppm	0.0130 ppm	0.0067 ppm	0.2847 ppm	0.0030 ppm	11.5644 ppm
Concentration per Run 3	0.0004 ppm	47.1803 ppm	0.0109 ppm	0.0059 ppm	0.2849 ppm	0.0029 ppm	11.6165 ppm
Concentration RSD	53.4 %	0.2 %	13.9 %	17.1 %	0.2 %	1.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0172 ppm	0.0578 ppm	0.0260 ppm	55.5485 ppm	1.3074 ppm	0.0527 ppm
Concentration per Run 1	0.0008 ppm	0.0174 ppm	0.0574 ppm	0.0258 ppm	55.4068 ppm	1.3009 ppm	0.0538 ppm
Concentration per Run 2	0.0006 ppm	0.0170 ppm	0.0578 ppm	0.0259 ppm	55.6635 ppm	1.3101 ppm	0.0512 ppm
Concentration per Run 3	0.0005 ppm	0.0171 ppm	0.0580 ppm	0.0263 ppm	55.5750 ppm	1.3111 ppm	0.0530 ppm
Concentration RSD	20.3 %	1.3 %	0.5 %	1.2 %	0.2 %	0.4 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.2170 ppm	0.4390 ppm	0.0010 ppm	0.3222 ppm	0.0316 ppm	0.0830 ppm	-0.0015 ppm
Concentration per Run 1	11.2116 ppm	0.4389 ppm	0.0002 ppm	0.3288 ppm	0.0313 ppm	0.0824 ppm	-0.0012 ppm
Concentration per Run 2	11.2030 ppm	0.4371 ppm	0.0016 ppm	0.3208 ppm	0.0322 ppm	0.0834 ppm	-0.0034 ppm
Concentration per Run 3	11.2364 ppm	0.4409 ppm	0.0012 ppm	0.3170 ppm	0.0313 ppm	0.0830 ppm	0.0002 ppm
Concentration RSD	0.2 %	0.4 %	69.5 %	1.9 %	1.6 %	0.6 %	126.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0033 ppm	5.8311 ppm	0.0073 ppm	0.0386 ppm	2.6912 ppm	0.0022 ppm	0.0915 ppm
Concentration per Run 1	-0.0012 ppm	5.8334 ppm	0.0072 ppm	0.0386 ppm	2.6884 ppm	0.0027 ppm	0.0921 ppm
Concentration per Run 2	0.0052 ppm	5.8362 ppm	0.0078 ppm	0.0385 ppm	2.6936 ppm	0.0031 ppm	0.0915 ppm
Concentration per Run 3	0.0059 ppm	5.8236 ppm	0.0070 ppm	0.0385 ppm	2.6917 ppm	0.0009 ppm	0.0910 ppm
Concentration RSD	117.6 %	0.1 %	5.3 %	0.1 %	0.1 %	52.9 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2052 ppm	110.7216 %	108.1413 %	107.9281 %	144.2808 %	142.0772 %	143.7676 %
Concentration per Run 1	0.2057 ppm	110.5059 %	108.2223 %	107.0866 %	143.3594 %	142.5473 %	142.6130 %
Concentration per Run 2	0.2055 ppm	110.5429 %	108.5420 %	108.3467 %	144.7607 %	142.1329 %	144.6377 %
Concentration per Run 3	0.2043 ppm	111.1161 %	107.6595 %	108.3511 %	144.7224 %	141.5514 %	144.0522 %
Concentration RSD	0.4 %	0.3 %	0.4 %	0.7 %	0.6 %	0.4 %	0.7 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-03d2 WG1975362
Analysis started at: 9/26/2024 11:39:11 AM
Rack 1
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	127.3278 ppm	0.0234 ppm	0.0024 ppm	0.7301 ppm	0.0080 ppm	18.0267 ppm
Concentration per Run 1	0.0014 ppm	126.9152 ppm	0.0235 ppm	0.0034 ppm	0.7261 ppm	0.0080 ppm	17.9888 ppm
Concentration per Run 2	0.0012 ppm	127.4214 ppm	0.0253 ppm	0.0013 ppm	0.7310 ppm	0.0080 ppm	18.0576 ppm
Concentration per Run 3	0.0014 ppm	127.6469 ppm	0.0215 ppm	0.0026 ppm	0.7333 ppm	0.0080 ppm	18.0338 ppm
Concentration RSD	8.4 %	0.3 %	8.2 %	44.1 %	0.5 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0023 ppm	0.0193 ppm	0.0881 ppm	0.0340 ppm	54.9106 ppm	2.6150 ppm	0.0780 ppm
Concentration per Run 1	0.0021 ppm	0.0195 ppm	0.0879 ppm	0.0335 ppm	54.8469 ppm	2.6135 ppm	0.0778 ppm
Concentration per Run 2	0.0023 ppm	0.0193 ppm	0.0883 ppm	0.0338 ppm	55.0092 ppm	2.6151 ppm	0.0786 ppm
Concentration per Run 3	0.0023 ppm	0.0193 ppm	0.0882 ppm	0.0348 ppm	54.8758 ppm	2.6164 ppm	0.0777 ppm
Concentration RSD	4.5 %	0.5 %	0.3 %	2.0 %	0.2 %	0.1 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.4291 ppm	0.6135 ppm	0.0014 ppm	0.3626 ppm	0.0458 ppm	0.1098 ppm	0.0017 ppm
Concentration per Run 1	11.3938 ppm	0.6144 ppm	0.0007 ppm	0.3624 ppm	0.0469 ppm	0.1089 ppm	0.0026 ppm
Concentration per Run 2	11.4804 ppm	0.6134 ppm	0.0021 ppm	0.3635 ppm	0.0451 ppm	0.1115 ppm	0.0015 ppm
Concentration per Run 3	11.4131 ppm	0.6126 ppm	0.0016 ppm	0.3621 ppm	0.0454 ppm	0.1090 ppm	0.0011 ppm
Concentration RSD	0.4 %	0.1 %	48.4 %	0.2 %	2.2 %	1.4 %	43.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0080 ppm	7.3809 ppm	0.0089 ppm	0.0949 ppm	0.5851 ppm	0.0050 ppm	0.0733 ppm
Concentration per Run 1	0.0051 ppm	7.3662 ppm	0.0086 ppm	0.0946 ppm	0.5826 ppm	0.0051 ppm	0.0731 ppm
Concentration per Run 2	0.0106 ppm	7.4069 ppm	0.0087 ppm	0.0949 ppm	0.5862 ppm	0.0039 ppm	0.0731 ppm
Concentration per Run 3	0.0082 ppm	7.3695 ppm	0.0096 ppm	0.0951 ppm	0.5865 ppm	0.0059 ppm	0.0737 ppm
Concentration RSD	34.7 %	0.3 %	6.1 %	0.3 %	0.4 %	20.2 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4324 ppm	109.9341 %	107.1190 %	104.4590 %	171.6659 %	169.4976 %	172.5130 %
Concentration per Run 1	0.4321 ppm	111.0687 %	108.8706 %	104.0570 %	173.8987 %	172.5801 %	171.8981 %
Concentration per Run 2	0.4331 ppm	109.5780 %	105.7720 %	104.5529 %	170.3001 %	166.8111 %	172.6162 %
Concentration per Run 3	0.4320 ppm	109.1556 %	106.7144 %	104.7672 %	170.7989 %	169.1015 %	173.0247 %
Concentration RSD	0.1 %	0.9 %	1.5 %	0.3 %	1.1 %	1.7 %	0.3 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-04d2 WG1975362
Analysis started at: 9/26/2024 11:43:06 AM
Rack 1
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	89.3550 ppm	0.0210 ppm	0.0017 ppm	0.4926 ppm	0.0065 ppm	13.9677 ppm
Concentration per Run 1	0.0010 ppm	89.1657 ppm	0.0226 ppm	0.0008 ppm	0.4918 ppm	0.0064 ppm	13.9306 ppm
Concentration per Run 2	0.0011 ppm	89.2757 ppm	0.0214 ppm	0.0020 ppm	0.4927 ppm	0.0065 ppm	13.9524 ppm
Concentration per Run 3	0.0007 ppm	89.6235 ppm	0.0190 ppm	0.0023 ppm	0.4933 ppm	0.0066 ppm	14.0202 ppm
Concentration RSD	22.9 %	0.3 %	8.8 %	46.0 %	0.2 %	1.0 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0023 ppm	0.0165 ppm	0.0630 ppm	0.0228 ppm	40.6407 ppm	1.8237 ppm	0.0474 ppm
Concentration per Run 1	0.0022 ppm	0.0170 ppm	0.0625 ppm	0.0228 ppm	40.7500 ppm	1.8310 ppm	0.0474 ppm
Concentration per Run 2	0.0024 ppm	0.0163 ppm	0.0633 ppm	0.0231 ppm	40.4328 ppm	1.8153 ppm	0.0482 ppm
Concentration per Run 3	0.0023 ppm	0.0161 ppm	0.0633 ppm	0.0226 ppm	40.7392 ppm	1.8250 ppm	0.0467 ppm
Concentration RSD	4.3 %	2.9 %	0.7 %	1.0 %	0.4 %	0.4 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.6599 ppm	1.4014 ppm	0.0015 ppm	0.2960 ppm	0.0327 ppm	0.1247 ppm	-0.0004 ppm
Concentration per Run 1	7.6451 ppm	1.4024 ppm	0.0014 ppm	0.2977 ppm	0.0322 ppm	0.1251 ppm	0.0003 ppm
Concentration per Run 2	7.6790 ppm	1.3951 ppm	0.0020 ppm	0.2928 ppm	0.0337 ppm	0.1252 ppm	-0.0001 ppm
Concentration per Run 3	7.6556 ppm	1.4066 ppm	0.0012 ppm	0.2976 ppm	0.0322 ppm	0.1237 ppm	-0.0015 ppm
Concentration RSD	0.2 %	0.4 %	26.6 %	0.9 %	2.6 %	0.7 %	212.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0058 ppm	6.6905 ppm	0.0067 ppm	0.0814 ppm	0.4408 ppm	0.0015 ppm	0.0615 ppm
Concentration per Run 1	0.0033 ppm	6.6887 ppm	0.0059 ppm	0.0816 ppm	0.4378 ppm	0.0002 ppm	0.0613 ppm
Concentration per Run 2	0.0056 ppm	6.7001 ppm	0.0082 ppm	0.0811 ppm	0.4415 ppm	0.0015 ppm	0.0618 ppm
Concentration per Run 3	0.0085 ppm	6.6826 ppm	0.0061 ppm	0.0814 ppm	0.4430 ppm	0.0028 ppm	0.0615 ppm
Concentration RSD	44.2 %	0.1 %	19.1 %	0.3 %	0.6 %	88.0 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3064 ppm	112.1491 %	109.0492 %	107.1569 %	**165.1835 %**	**162.6108 %**	**166.0294 %**
Concentration per Run 1	0.3060 ppm	113.1126 %	110.3333 %	106.3951 %	**166.9274 %**	**164.6019 %**	**165.0722 %**
Concentration per Run 2	0.3070 ppm	111.7733 %	108.4616 %	107.3238 %	**164.5686 %**	**161.4512 %**	**166.3744 %**
Concentration per Run 3	0.3062 ppm	111.5614 %	108.3526 %	107.7519 %	**164.0545 %**	**161.7792 %**	**166.6415 %**
Concentration RSD	0.2 %	0.8 %	1.0 %	0.6 %	**0.9 %**	**1.1 %**	**0.5 %**

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-05d2 WG1975362
Analysis started at: 9/26/2024 11:47:00 AM
Rack 1
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	79.2135 ppm	0.0199 ppm	0.0116 ppm	0.4215 ppm	0.0056 ppm	60.2879 ppm
Concentration per Run 1	0.0001 ppm	79.3505 ppm	0.0200 ppm	0.0099 ppm	0.4219 ppm	0.0056 ppm	60.4005 ppm
Concentration per Run 2	0.0007 ppm	79.0790 ppm	0.0219 ppm	0.0122 ppm	0.4196 ppm	0.0055 ppm	60.1700 ppm
Concentration per Run 3	0.0006 ppm	79.2110 ppm	0.0179 ppm	0.0128 ppm	0.4229 ppm	0.0057 ppm	60.2933 ppm
Concentration RSD	62.7 %	0.2 %	10.0 %	13.2 %	0.4 %	1.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0010 ppm	0.0242 ppm	0.0581 ppm	0.0624 ppm	141.7018 ppm	4.4780 ppm	0.0747 ppm
Concentration per Run 1	0.0012 ppm	0.0239 ppm	0.0574 ppm	0.0626 ppm	142.2580 ppm	4.4659 ppm	0.0742 ppm
Concentration per Run 2	0.0009 ppm	0.0241 ppm	0.0579 ppm	0.0619 ppm	140.9784 ppm	4.5077 ppm	0.0754 ppm
Concentration per Run 3	0.0009 ppm	0.0245 ppm	0.0589 ppm	0.0627 ppm	141.8690 ppm	4.4604 ppm	0.0744 ppm
Concentration RSD	18.4 %	1.4 %	1.3 %	0.7 %	0.5 %	0.6 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.9158 ppm	1.6275 ppm	0.0051 ppm	0.5638 ppm	0.0353 ppm	0.0815 ppm	-0.0007 ppm
Concentration per Run 1	17.8589 ppm	1.6310 ppm	0.0049 ppm	0.5595 ppm	0.0364 ppm	0.0801 ppm	0.0007 ppm
Concentration per Run 2	17.9908 ppm	1.6283 ppm	0.0050 ppm	0.5581 ppm	0.0350 ppm	0.0807 ppm	-0.0044 ppm
Concentration per Run 3	17.8975 ppm	1.6231 ppm	0.0053 ppm	0.5738 ppm	0.0346 ppm	0.0837 ppm	0.0017 ppm
Concentration RSD	0.4 %	0.2 %	4.5 %	1.5 %	2.6 %	2.4 %	494.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0033 ppm	7.0989 ppm	0.0109 ppm	0.0976 ppm	3.0004 ppm	0.0032 ppm	0.1275 ppm
Concentration per Run 1	0.0040 ppm	7.0710 ppm	0.0094 ppm	0.0979 ppm	2.9899 ppm	0.0021 ppm	0.1280 ppm
Concentration per Run 2	0.0021 ppm	7.1289 ppm	0.0125 ppm	0.0969 ppm	3.0139 ppm	0.0048 ppm	0.1280 ppm
Concentration per Run 3	0.0039 ppm	7.0966 ppm	0.0110 ppm	0.0979 ppm	2.9973 ppm	0.0027 ppm	0.1265 ppm
Concentration RSD	31.7 %	0.4 %	14.0 %	0.6 %	0.4 %	45.0 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4449 ppm	111.5962 %	110.0623 %	106.3017 %	**163.4527 %**	**163.9256 %**	**164.3718 %**
Concentration per Run 1	0.4448 ppm	111.8527 %	110.3190 %	106.3155 %	**164.1614 %**	**164.6803 %**	**164.2390 %**
Concentration per Run 2	0.4461 ppm	111.9599 %	110.1965 %	106.5975 %	**163.7925 %**	**163.6345 %**	**164.9870 %**
Concentration per Run 3	0.4439 ppm	110.9760 %	109.6715 %	105.9921 %	**162.4043 %**	**163.4619 %**	**163.8895 %**
Concentration RSD	0.2 %	0.5 %	0.3 %	0.3 %	**0.6 %**	**0.4 %**	**0.3 %**

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-06d2 WG1975362
Analysis started at: 9/26/2024 11:50:54 AM
Rack 1
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	59.8911 ppm	0.0157 ppm	0.0094 ppm	0.3121 ppm	0.0040 ppm	22.1845 ppm
Concentration per Run 1	0.0006 ppm	59.4840 ppm	0.0123 ppm	0.0086 ppm	0.3123 ppm	0.0040 ppm	22.0622 ppm
Concentration per Run 2	0.0007 ppm	60.3826 ppm	0.0172 ppm	0.0092 ppm	0.3133 ppm	0.0040 ppm	22.3712 ppm
Concentration per Run 3	0.0003 ppm	59.8069 ppm	0.0175 ppm	0.0103 ppm	0.3108 ppm	0.0040 ppm	22.1201 ppm
Concentration RSD	36.1 %	0.8 %	18.7 %	9.2 %	0.4 %	0.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0013 ppm	0.0124 ppm	0.0418 ppm	0.1189 ppm	76.2869 ppm	3.4553 ppm	0.0500 ppm
Concentration per Run 1	0.0014 ppm	0.0120 ppm	0.0415 ppm	0.1184 ppm	76.2338 ppm	3.4743 ppm	0.0508 ppm
Concentration per Run 2	0.0013 ppm	0.0123 ppm	0.0420 ppm	0.1190 ppm	76.7262 ppm	3.4628 ppm	0.0491 ppm
Concentration per Run 3	0.0011 ppm	0.0129 ppm	0.0419 ppm	0.1192 ppm	75.9006 ppm	3.4288 ppm	0.0502 ppm
Concentration RSD	11.5 %	3.8 %	0.6 %	0.3 %	0.5 %	0.7 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.8622 ppm	0.4397 ppm	0.0014 ppm	0.3547 ppm	0.0231 ppm	0.0787 ppm	-0.0003 ppm
Concentration per Run 1	6.8548 ppm	0.4398 ppm	0.0014 ppm	0.3529 ppm	0.0223 ppm	0.0778 ppm	0.0000 ppm
Concentration per Run 2	6.8585 ppm	0.4394 ppm	0.0019 ppm	0.3588 ppm	0.0240 ppm	0.0795 ppm	0.0036 ppm
Concentration per Run 3	6.8733 ppm	0.4400 ppm	0.0010 ppm	0.3525 ppm	0.0230 ppm	0.0787 ppm	-0.0045 ppm
Concentration RSD	0.1 %	0.1 %	31.9 %	1.0 %	3.6 %	1.0 %	1,301.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0046 ppm	6.5989 ppm	0.0080 ppm	0.0521 ppm	1.4303 ppm	0.0029 ppm	0.0934 ppm
Concentration per Run 1	0.0027 ppm	6.5880 ppm	0.0073 ppm	0.0520 ppm	1.4278 ppm	0.0033 ppm	0.0932 ppm
Concentration per Run 2	0.0077 ppm	6.5901 ppm	0.0072 ppm	0.0522 ppm	1.4304 ppm	0.0023 ppm	0.0934 ppm
Concentration per Run 3	0.0034 ppm	6.6185 ppm	0.0096 ppm	0.0521 ppm	1.4327 ppm	0.0030 ppm	0.0936 ppm
Concentration RSD	58.1 %	0.3 %	16.9 %	0.2 %	0.2 %	18.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3417 ppm	111.0347 %	108.7301 %	107.2577 %	139.4069 %	137.6176 %	139.5423 %
Concentration per Run 1	0.3415 ppm	111.1284 %	109.6847 %	107.7197 %	139.2474 %	138.8321 %	139.5463 %
Concentration per Run 2	0.3412 ppm	110.9232 %	107.5918 %	106.1156 %	139.3899 %	135.9136 %	138.4852 %
Concentration per Run 3	0.3424 ppm	111.0525 %	108.9139 %	107.9377 %	139.5834 %	138.1072 %	140.5953 %
Concentration RSD	0.2 %	0.1 %	1.0 %	0.9 %	0.1 %	1.1 %	0.8 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-07d2 WG1975362
Analysis started at: 9/26/2024 11:54:48 AM
Rack 1
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	118.4043 ppm	0.0273 ppm	0.0121 ppm	0.6387 ppm	0.0099 ppm	26.1547 ppm
Concentration per Run 1	0.0010 ppm	117.7240 ppm	0.0260 ppm	0.0122 ppm	0.6361 ppm	0.0099 ppm	26.1086 ppm
Concentration per Run 2	0.0010 ppm	118.4263 ppm	0.0245 ppm	0.0122 ppm	0.6377 ppm	0.0099 ppm	26.1140 ppm
Concentration per Run 3	0.0002 ppm	119.0627 ppm	0.0314 ppm	0.0120 ppm	0.6424 ppm	0.0098 ppm	26.2414 ppm
Concentration RSD	60.7 %	0.6 %	13.3 %	1.2 %	0.5 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0017 ppm	0.0509 ppm	0.0951 ppm	0.1485 ppm	214.2332 ppm	9.1444 ppm	0.1154 ppm
Concentration per Run 1	0.0016 ppm	0.0506 ppm	0.0948 ppm	0.1487 ppm	213.9272 ppm	9.1308 ppm	0.1149 ppm
Concentration per Run 2	0.0019 ppm	0.0506 ppm	0.0956 ppm	0.1500 ppm	213.7078 ppm	9.0946 ppm	0.1147 ppm
Concentration per Run 3	0.0016 ppm	0.0515 ppm	0.0949 ppm	0.1468 ppm	215.0647 ppm	9.2076 ppm	0.1168 ppm
Concentration RSD	9.6 %	1.0 %	0.5 %	1.1 %	0.3 %	0.6 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	23.8457 ppm	3.3378 ppm	0.0037 ppm	0.8847 ppm	0.0579 ppm	0.0945 ppm	-0.0037 ppm
Concentration per Run 1	23.8689 ppm	3.3243 ppm	0.0040 ppm	0.8817 ppm	0.0589 ppm	0.0947 ppm	-0.0022 ppm
Concentration per Run 2	23.9043 ppm	3.3412 ppm	0.0034 ppm	0.8859 ppm	0.0574 ppm	0.0941 ppm	-0.0027 ppm
Concentration per Run 3	23.7640 ppm	3.3479 ppm	0.0038 ppm	0.8865 ppm	0.0574 ppm	0.0948 ppm	-0.0063 ppm
Concentration RSD	0.3 %	0.4 %	8.4 %	0.3 %	1.5 %	0.4 %	59.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0071 ppm	6.7311 ppm	0.0150 ppm	0.0834 ppm	4.3496 ppm	0.0047 ppm	0.2304 ppm
Concentration per Run 1	0.0064 ppm	6.7312 ppm	0.0144 ppm	0.0831 ppm	4.3535 ppm	0.0042 ppm	0.2320 ppm
Concentration per Run 2	0.0110 ppm	6.7852 ppm	0.0156 ppm	0.0832 ppm	4.3532 ppm	0.0042 ppm	0.2298 ppm
Concentration per Run 3	0.0038 ppm	6.6769 ppm	0.0152 ppm	0.0839 ppm	4.3421 ppm	0.0058 ppm	0.2294 ppm
Concentration RSD	51.0 %	0.8 %	4.1 %	0.5 %	0.2 %	19.3 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6429 ppm	114.4496 %	112.6465 %	109.2080 %	**183.4840 %**	**184.0299 %**	**185.0934 %**
Concentration per Run 1	0.6445 ppm	113.7486 %	112.4424 %	109.2671 %	**182.7058 %**	**183.1505 %**	**185.4444 %**
Concentration per Run 2	0.6441 ppm	113.9394 %	113.5980 %	109.0920 %	**182.5476 %**	**185.1890 %**	**184.2661 %**
Concentration per Run 3	0.6400 ppm	115.6607 %	111.8992 %	109.2650 %	**185.1985 %**	**183.7502 %**	**185.5697 %**
Concentration RSD	0.4 %	0.9 %	0.8 %	0.1 %	**0.8 %**	**0.6 %**	**0.4 %**

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-08d2 WG1975362
Analysis started at: 9/26/2024 11:58:43 AM
Rack 1
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	118.3381 ppm	0.0256 ppm	0.0122 ppm	0.6741 ppm	0.0093 ppm	28.2311 ppm
Concentration per Run 1	0.0007 ppm	118.0382 ppm	0.0257 ppm	0.0125 ppm	0.6721 ppm	0.0094 ppm	28.1703 ppm
Concentration per Run 2	0.0011 ppm	119.6268 ppm	0.0248 ppm	0.0130 ppm	0.6836 ppm	0.0093 ppm	28.5047 ppm
Concentration per Run 3	0.0010 ppm	117.3492 ppm	0.0263 ppm	0.0111 ppm	0.6666 ppm	0.0092 ppm	28.0184 ppm
Concentration RSD	26.7 %	1.0 %	3.0 %	8.1 %	1.3 %	1.1 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0020 ppm	0.0254 ppm	0.0822 ppm	0.2282 ppm	167.4706 ppm	6.8507 ppm	0.0963 ppm
Concentration per Run 1	0.0021 ppm	0.0250 ppm	0.0820 ppm	0.2272 ppm	167.1085 ppm	6.8036 ppm	0.0969 ppm
Concentration per Run 2	0.0021 ppm	0.0254 ppm	0.0826 ppm	0.2280 ppm	169.4947 ppm	6.9672 ppm	0.0972 ppm
Concentration per Run 3	0.0018 ppm	0.0257 ppm	0.0821 ppm	0.2293 ppm	165.8087 ppm	6.7813 ppm	0.0947 ppm
Concentration RSD	8.1 %	1.3 %	0.4 %	0.5 %	1.1 %	1.5 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.1275 ppm	0.9323 ppm	0.0064 ppm	0.5990 ppm	0.0488 ppm	0.0916 ppm	-0.0005 ppm
Concentration per Run 1	16.0928 ppm	0.9290 ppm	0.0056 ppm	0.6028 ppm	0.0490 ppm	0.0927 ppm	0.0064 ppm
Concentration per Run 2	16.1520 ppm	0.9443 ppm	0.0071 ppm	0.6050 ppm	0.0491 ppm	0.0901 ppm	-0.0032 ppm
Concentration per Run 3	16.1378 ppm	0.9236 ppm	0.0067 ppm	0.5893 ppm	0.0484 ppm	0.0919 ppm	-0.0045 ppm
Concentration RSD	0.2 %	1.2 %	12.0 %	1.4 %	0.8 %	1.4 %	1,277.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	7.2463 ppm	0.0133 ppm	0.0831 ppm	2.6029 ppm	0.0034 ppm	0.1895 ppm
Concentration per Run 1	0.0027 ppm	7.2181 ppm	0.0141 ppm	0.0829 ppm	2.6040 ppm	0.0037 ppm	0.1887 ppm
Concentration per Run 2	0.0035 ppm	7.2630 ppm	0.0131 ppm	0.0841 ppm	2.5975 ppm	0.0035 ppm	0.1901 ppm
Concentration per Run 3	0.0046 ppm	7.2578 ppm	0.0126 ppm	0.0823 ppm	2.6071 ppm	0.0030 ppm	0.1897 ppm
Concentration RSD	26.8 %	0.3 %	5.7 %	1.1 %	0.2 %	10.5 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5446 ppm	114.8836 %	110.7085 %	109.5020 %	**200.2270 %**	**198.2212 %**	**202.1622 %**
Concentration per Run 1	0.5430 ppm	114.6623 %	110.3979 %	109.1025 %	**199.9374 %**	**195.6493 %**	**201.4162 %**
Concentration per Run 2	0.5469 ppm	114.2237 %	109.6796 %	109.4085 %	**198.6233 %**	**197.8689 %**	**202.0624 %**
Concentration per Run 3	0.5440 ppm	115.7647 %	112.0480 %	109.9949 %	**202.1203 %**	**201.1455 %**	**203.0082 %**
Concentration RSD	0.4 %	0.7 %	1.1 %	0.4 %	**0.9 %**	**1.4 %**	**0.4 %**

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-09d2 WG1975362
Analysis started at: 9/26/2024 12:12:09 PM
Rack 1
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0016 ppm	142.8592 ppm	0.0240 ppm	0.0165 ppm	0.7575 ppm	0.0106 ppm	22.2845 ppm
Concentration per Run 1	0.0021 ppm	142.5247 ppm	0.0240 ppm	0.0164 ppm	0.7519 ppm	0.0105 ppm	22.2008 ppm
Concentration per Run 2	0.0015 ppm	142.6966 ppm	0.0225 ppm	0.0160 ppm	0.7594 ppm	0.0106 ppm	22.2720 ppm
Concentration per Run 3	0.0012 ppm	143.3562 ppm	0.0256 ppm	0.0170 ppm	0.7611 ppm	0.0106 ppm	22.3808 ppm
Concentration RSD	28.4 %	0.3 %	6.5 %	3.1 %	0.6 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0020 ppm	0.0679 ppm	0.1071 ppm	0.2369 ppm	227.2380 ppm	9.6087 ppm	0.1212 ppm
Concentration per Run 1	0.0019 ppm	0.0675 ppm	0.1065 ppm	0.2357 ppm	226.0671 ppm	9.6303 ppm	0.1224 ppm
Concentration per Run 2	0.0021 ppm	0.0691 ppm	0.1074 ppm	0.2366 ppm	227.5355 ppm	9.5642 ppm	0.1204 ppm
Concentration per Run 3	0.0020 ppm	0.0670 ppm	0.1075 ppm	0.2384 ppm	228.1114 ppm	9.6316 ppm	0.1209 ppm
Concentration RSD	5.9 %	1.6 %	0.5 %	0.6 %	0.5 %	0.4 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.2668 ppm	6.7242 ppm	0.0045 ppm	0.8821 ppm	0.0674 ppm	0.1217 ppm	-0.0060 ppm
Concentration per Run 1	25.9985 ppm	6.6973 ppm	0.0048 ppm	0.8845 ppm	0.0668 ppm	0.1236 ppm	-0.0105 ppm
Concentration per Run 2	26.3680 ppm	6.7526 ppm	0.0044 ppm	0.8680 ppm	0.0666 ppm	0.1219 ppm	-0.0016 ppm
Concentration per Run 3	26.4339 ppm	6.7227 ppm	0.0044 ppm	0.8937 ppm	0.0689 ppm	0.1195 ppm	-0.0058 ppm
Concentration RSD	0.9 %	0.4 %	5.6 %	1.5 %	1.9 %	1.7 %	75.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0034 ppm	7.0883 ppm	0.0171 ppm	0.0841 ppm	4.5923 ppm	0.0045 ppm	0.2509 ppm
Concentration per Run 1	0.0082 ppm	7.0575 ppm	0.0171 ppm	0.0838 ppm	4.5417 ppm	0.0046 ppm	0.2493 ppm
Concentration per Run 2	0.0032 ppm	7.0925 ppm	0.0165 ppm	0.0841 ppm	4.6029 ppm	0.0042 ppm	0.2509 ppm
Concentration per Run 3	-0.0013 ppm	7.1148 ppm	0.0176 ppm	0.0842 ppm	4.6323 ppm	0.0046 ppm	0.2525 ppm
Concentration RSD	141.2 %	0.4 %	3.0 %	0.2 %	1.0 %	5.3 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8323 ppm	108.7493 %	109.4420 %	104.0041 %	148.7983 %	154.7488 %	151.4765 %
Concentration per Run 1	0.8277 ppm	109.5724 %	110.0299 %	103.3312 %	149.5153 %	155.3055 %	150.0125 %
Concentration per Run 2	0.8315 ppm	109.2597 %	109.0575 %	104.0503 %	149.5294 %	154.3339 %	151.5466 %
Concentration per Run 3	0.8378 ppm	107.4156 %	109.2385 %	104.6309 %	147.3503 %	154.6069 %	152.8705 %
Concentration RSD	0.6 %	1.1 %	0.5 %	0.6 %	0.8 %	0.3 %	0.9 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-10d2 WG1975362
Analysis started at: 9/26/2024 12:16:13 PM
Rack 1
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	50.5783 ppm	0.0085 ppm	0.0109 ppm	0.2443 ppm	0.0027 ppm	17.3182 ppm
Concentration per Run 1	0.0008 ppm	50.5481 ppm	0.0080 ppm	0.0130 ppm	0.2434 ppm	0.0027 ppm	17.2579 ppm
Concentration per Run 2	0.0003 ppm	50.4362 ppm	0.0085 ppm	0.0073 ppm	0.2457 ppm	0.0027 ppm	17.3189 ppm
Concentration per Run 3	0.0006 ppm	50.7508 ppm	0.0090 ppm	0.0125 ppm	0.2440 ppm	0.0026 ppm	17.3778 ppm
Concentration RSD	42.7 %	0.3 %	5.7 %	28.6 %	0.5 %	1.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0094 ppm	0.0348 ppm	0.1511 ppm	63.6179 ppm	2.2763 ppm	0.0323 ppm
Concentration per Run 1	0.0009 ppm	0.0093 ppm	0.0347 ppm	0.1511 ppm	63.2820 ppm	2.2802 ppm	0.0333 ppm
Concentration per Run 2	0.0010 ppm	0.0097 ppm	0.0349 ppm	0.1504 ppm	63.8485 ppm	2.2538 ppm	0.0324 ppm
Concentration per Run 3	0.0009 ppm	0.0093 ppm	0.0349 ppm	0.1516 ppm	63.7234 ppm	2.2951 ppm	0.0313 ppm
Concentration RSD	5.6 %	2.7 %	0.4 %	0.4 %	0.5 %	0.9 %	3.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.3777 ppm	0.4068 ppm	0.0029 ppm	0.4007 ppm	0.0183 ppm	0.0711 ppm	-0.0023 ppm
Concentration per Run 1	9.3909 ppm	0.4063 ppm	0.0028 ppm	0.3988 ppm	0.0183 ppm	0.0695 ppm	-0.0054 ppm
Concentration per Run 2	9.3410 ppm	0.4070 ppm	0.0030 ppm	0.3957 ppm	0.0185 ppm	0.0723 ppm	0.0001 ppm
Concentration per Run 3	9.4011 ppm	0.4070 ppm	0.0028 ppm	0.4077 ppm	0.0180 ppm	0.0715 ppm	-0.0014 ppm
Concentration RSD	0.3 %	0.1 %	3.9 %	1.6 %	1.5 %	2.0 %	125.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0050 ppm	6.2657 ppm	0.0086 ppm	0.0360 ppm	2.4235 ppm	0.0010 ppm	0.0850 ppm
Concentration per Run 1	0.0059 ppm	6.2583 ppm	0.0083 ppm	0.0361 ppm	2.4224 ppm	0.0007 ppm	0.0852 ppm
Concentration per Run 2	0.0012 ppm	6.2610 ppm	0.0086 ppm	0.0359 ppm	2.4169 ppm	0.0012 ppm	0.0848 ppm
Concentration per Run 3	0.0078 ppm	6.2779 ppm	0.0088 ppm	0.0362 ppm	2.4311 ppm	0.0011 ppm	0.0850 ppm
Concentration RSD	68.9 %	0.2 %	2.9 %	0.4 %	0.3 %	26.6 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2542 ppm	110.3108 %	107.3608 %	107.1610 %	127.5282 %	124.8152 %	126.8780 %
Concentration per Run 1	0.2533 ppm	110.2398 %	108.2171 %	107.0145 %	127.3951 %	126.2593 %	126.6476 %
Concentration per Run 2	0.2550 ppm	110.1919 %	107.2906 %	106.7750 %	127.4938 %	124.3107 %	126.5415 %
Concentration per Run 3	0.2543 ppm	110.5009 %	106.5746 %	107.6934 %	127.6956 %	123.8757 %	127.4449 %
Concentration RSD	0.3 %	0.2 %	0.8 %	0.4 %	0.1 %	1.0 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 12:20:05 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5093 ppm	0.4778 ppm	0.4837 ppm	0.4974 ppm	0.5011 ppm	0.5130 ppm	0.4931 ppm
Concentration per Run 1	0.5105 ppm	0.4798 ppm	0.4820 ppm	0.5001 ppm	0.5033 ppm	0.5128 ppm	0.4974 ppm
Concentration per Run 2	0.5067 ppm	0.4690 ppm	0.4813 ppm	0.4933 ppm	0.5015 ppm	0.5143 ppm	0.4943 ppm
Concentration per Run 3	0.5109 ppm	0.4846 ppm	0.4877 ppm	0.4989 ppm	0.4985 ppm	0.5119 ppm	0.4877 ppm
Recovery Percentage 1	101.867 %	95.564 %	96.735 %	99.484 %	100.219 %	102.595 %	98.628 %
Concentration RSD	0.5 %	1.7 %	0.7 %	0.7 %	0.5 %	0.2 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5025 ppm	0.5147 ppm	0.4935 ppm	0.4925 ppm	0.5086 ppm	5.1910 ppm	0.4929 ppm
Concentration per Run 1	0.5045 ppm	0.5151 ppm	0.4943 ppm	0.4915 ppm	0.5081 ppm	5.2137 ppm	0.4948 ppm
Concentration per Run 2	0.5013 ppm	0.5124 ppm	0.4929 ppm	0.4901 ppm	0.5089 ppm	5.2024 ppm	0.4916 ppm
Concentration per Run 3	0.5016 ppm	0.5166 ppm	0.4932 ppm	0.4960 ppm	0.5088 ppm	5.1569 ppm	0.4923 ppm
Recovery Percentage 1	100.495 %	102.942 %	98.694 %	98.504 %	101.714 %	103.820 %	98.583 %
Concentration RSD	0.3 %	0.4 %	0.2 %	0.6 %	0.1 %	0.6 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4921 ppm	0.4950 ppm	0.4873 ppm	10.0727 ppm	0.5120 ppm	0.5019 ppm	0.5111 ppm
Concentration per Run 1	0.4946 ppm	0.4942 ppm	0.4837 ppm	10.0974 ppm	0.5129 ppm	0.5019 ppm	0.5018 ppm
Concentration per Run 2	0.4914 ppm	0.4947 ppm	0.4869 ppm	10.0993 ppm	0.5075 ppm	0.5018 ppm	0.5123 ppm
Concentration per Run 3	0.4904 ppm	0.4961 ppm	0.4913 ppm	10.0215 ppm	0.5156 ppm	0.5021 ppm	0.5191 ppm
Recovery Percentage 1	98.427 %	99.000 %	97.460 %	100.727 %	102.395 %	100.383 %	102.216 %
Concentration RSD	0.4 %	0.2 %	0.8 %	0.4 %	0.8 %	0.0 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5015 ppm	5.3863 ppm	0.4812 ppm	0.4758 ppm	0.5031 ppm	0.4986 ppm	0.4911 ppm
Concentration per Run 1	0.4959 ppm	5.3737 ppm	0.4815 ppm	0.4771 ppm	0.5045 ppm	0.4977 ppm	0.4911 ppm
Concentration per Run 2	0.5024 ppm	5.3643 ppm	0.4799 ppm	0.4767 ppm	0.5017 ppm	0.4989 ppm	0.4900 ppm
Concentration per Run 3	0.5063 ppm	5.4211 ppm	0.4823 ppm	0.4736 ppm	0.5031 ppm	0.4991 ppm	0.4922 ppm
Recovery Percentage 1	100.310 %	102.597 %	96.242 %	95.163 %	100.622 %	99.716 %	98.222 %
Concentration RSD	1.0 %	0.6 %	0.3 %	0.4 %	0.3 %	0.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5122 ppm	107.9265 %	104.6850 %	106.8009 %	106.5856 %	103.2495 %	106.7678 %
Concentration per Run 1	0.5134 ppm	107.3243 %	104.7208 %	107.3118 %	106.1248 %	103.2822 %	107.0642 %
Concentration per Run 2	0.5111 ppm	108.4550 %	105.2283 %	106.8350 %	106.6956 %	103.9434 %	106.7575 %
Concentration per Run 3	0.5122 ppm	108.0002 %	104.1060 %	106.2558 %	106.9365 %	102.5229 %	106.4818 %
Recovery Percentage 1	102.440 %						
Concentration RSD	0.2 %	0.5 %	0.5 %	0.5 %	0.4 %	0.7 %	0.3 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 12:24:00 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0035 ppm	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	-0.0009 ppm	-0.0106 ppm	0.0008 ppm	0.0023 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 2	-0.0003 ppm	0.0040 ppm	-0.0031 ppm	-0.0005 ppm	0.0003 ppm	0.0001 ppm	-0.0017 ppm
Concentration per Run 3	-0.0001 ppm	-0.0038 ppm	0.0019 ppm	-0.0013 ppm	0.0003 ppm	0.0000 ppm	-0.0004 ppm
Recovery Percentage 1	-6.256 %	-3.458 %	-2.578 %	0.597 %	2.275 %	1.145 %	-0.567 %
Concentration RSD	94.7 %	210.0 %	2,035.2 %	1,054.2 %	31.1 %	30.9 %	189.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0008 ppm	0.0006 ppm	-0.0007 ppm	0.0001 ppm	-0.0129 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0008 ppm	0.0005 ppm	-0.0007 ppm	-0.0002 ppm	0.0175 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	0.0009 ppm	-0.0009 ppm	-0.0008 ppm	-0.0137 ppm	0.0016 ppm
Concentration per Run 3	-0.0001 ppm	0.0008 ppm	0.0002 ppm	-0.0005 ppm	0.0015 ppm	-0.0426 ppm	-0.0016 ppm
Recovery Percentage 1	0.136 %	4.097 %	5.550 %	-6.870 %	0.296 %	-0.518 %	-1.654 %
Concentration RSD	1,609.2 %	6.6 %	65.4 %	22.9 %	793.5 %	232.3 %	1,902.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0026 ppm	-0.0001 ppm	0.0003 ppm	-0.0161 ppm	0.0005 ppm	0.0005 ppm	0.0007 ppm
Concentration per Run 1	0.0042 ppm	0.0000 ppm	0.0004 ppm	-0.0192 ppm	0.0006 ppm	-0.0004 ppm	-0.0049 ppm
Concentration per Run 2	0.0039 ppm	0.0000 ppm	-0.0001 ppm	-0.0144 ppm	-0.0003 ppm	0.0014 ppm	0.0063 ppm
Concentration per Run 3	-0.0004 ppm	-0.0002 ppm	0.0006 ppm	-0.0148 ppm	0.0012 ppm	0.0004 ppm	0.0008 ppm
Recovery Percentage 1	2.570 %	-0.946 %	0.546 %	-0.806 %	2.138 %	4.544 %	1.438 %
Concentration RSD	98.6 %	123.3 %	131.0 %	16.4 %	139.7 %	188.9 %	774.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0032 ppm	-0.0027 ppm	-0.0011 ppm	0.0000 ppm	-0.0003 ppm	0.0012 ppm	0.0003 ppm
Concentration per Run 1	0.0025 ppm	-0.0015 ppm	-0.0012 ppm	0.0000 ppm	-0.0002 ppm	0.0010 ppm	0.0007 ppm
Concentration per Run 2	0.0020 ppm	-0.0022 ppm	-0.0012 ppm	0.0002 ppm	-0.0002 ppm	0.0016 ppm	-0.0001 ppm
Concentration per Run 3	0.0050 ppm	-0.0044 ppm	-0.0009 ppm	-0.0003 ppm	-0.0003 ppm	0.0010 ppm	0.0002 ppm
Recovery Percentage 1	31.800 %	-0.543 %	-2.178 %	-0.271 %	-2.536 %	5.920 %	2.907 %
Concentration RSD	51.3 %	57.1 %	13.2 %	788.9 %	25.5 %	31.2 %	147.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	107.9431 %	102.4727 %	107.7681 %	108.8269 %	101.4614 %	108.4957 %
Concentration per Run 1	0.0002 ppm	107.2153 %	102.4718 %	108.0778 %	108.7411 %	101.8700 %	108.9280 %
Concentration per Run 2	-0.0003 ppm	108.9636 %	102.3684 %	107.8648 %	109.6430 %	101.0290 %	108.5832 %
Concentration per Run 3	-0.0003 ppm	107.6503 %	102.5777 %	107.3616 %	108.0966 %	101.4851 %	107.9760 %
Recovery Percentage 1	-3.392 %						
Concentration RSD	180.1 %	0.8 %	0.1 %	0.3 %	0.7 %	0.4 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1975909-1 WG1975909
Analysis started at: 9/26/2024 12:28:53 PM
Rack 1
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0021 ppm	0.0002 ppm	0.0036 ppm	0.0002 ppm	0.0000 ppm	0.0205 ppm
Concentration per Run 1	-0.0003 ppm	0.0049 ppm	0.0009 ppm	0.0034 ppm	0.0002 ppm	0.0000 ppm	0.0188 ppm
Concentration per Run 2	-0.0006 ppm	-0.0104 ppm	0.0010 ppm	0.0041 ppm	0.0003 ppm	0.0000 ppm	0.0217 ppm
Concentration per Run 3	0.0002 ppm	-0.0010 ppm	-0.0013 ppm	0.0033 ppm	0.0002 ppm	0.0001 ppm	0.0211 ppm
Concentration RSD	178.8 %	361.2 %	623.6 %	11.6 %	26.5 %	57.7 %	7.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0003 ppm	0.0159 ppm	0.0823 ppm	0.0010 ppm
Concentration per Run 1	-0.0003 ppm	0.0013 ppm	0.0000 ppm	0.0003 ppm	0.0181 ppm	0.1019 ppm	0.0015 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0155 ppm	0.0581 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0141 ppm	0.0869 ppm	0.0012 ppm
Concentration RSD	377.2 %	122.8 %	126.7 %	29.0 %	12.6 %	27.1 %	56.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0032 ppm	0.0005 ppm	-0.0005 ppm	-0.0016 ppm	0.0006 ppm	0.0020 ppm	0.0028 ppm
Concentration per Run 1	0.0030 ppm	0.0004 ppm	-0.0007 ppm	0.0008 ppm	0.0009 ppm	0.0029 ppm	-0.0016 ppm
Concentration per Run 2	0.0039 ppm	0.0006 ppm	-0.0005 ppm	-0.0074 ppm	0.0000 ppm	0.0011 ppm	0.0051 ppm
Concentration per Run 3	0.0026 ppm	0.0004 ppm	-0.0003 ppm	0.0020 ppm	0.0008 ppm	0.0020 ppm	0.0051 ppm
Concentration RSD	19.7 %	27.2 %	41.5 %	329.7 %	82.4 %	44.2 %	136.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	0.0058 ppm	0.0011 ppm	0.0000 ppm	0.0001 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 1	0.0034 ppm	0.0077 ppm	0.0016 ppm	0.0000 ppm	0.0002 ppm	-0.0007 ppm	0.0003 ppm
Concentration per Run 2	0.0042 ppm	0.0038 ppm	0.0012 ppm	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 3	0.0032 ppm	0.0060 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	-0.0007 ppm	0.0004 ppm
Concentration RSD	14.7 %	33.7 %	44.3 %	546.7 %	169.4 %	21.8 %	19.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0044 ppm	108.6097 %	108.4655 %	106.5650 %	106.9142 %	107.2730 %	106.8213 %
Concentration per Run 1	0.0042 ppm	109.4710 %	108.9967 %	106.4451 %	107.5410 %	107.9902 %	106.7610 %
Concentration per Run 2	0.0042 ppm	107.3962 %	108.0192 %	107.0924 %	105.8360 %	106.6717 %	107.4164 %
Concentration per Run 3	0.0049 ppm	108.9620 %	108.3806 %	106.1575 %	107.3655 %	107.1572 %	106.2865 %
Concentration RSD	9.5 %	1.0 %	0.5 %	0.4 %	0.9 %	0.6 %	0.5 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1975909-2d2 WG1975909
Analysis started at: 9/26/2024 12:32:55 PM
Rack 1
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3454 ppm	21.0110 ppm	1.2789 ppm	0.9837 ppm	1.3067 ppm	0.6986 ppm	20.6005 ppm
Concentration per Run 1	0.3482 ppm	20.8955 ppm	1.2765 ppm	0.9875 ppm	1.3046 ppm	0.6966 ppm	20.5793 ppm
Concentration per Run 2	0.3457 ppm	21.1445 ppm	1.2758 ppm	0.9792 ppm	1.3103 ppm	0.7011 ppm	20.6660 ppm
Concentration per Run 3	0.3424 ppm	20.9931 ppm	1.2844 ppm	0.9843 ppm	1.3053 ppm	0.6980 ppm	20.5562 ppm
Concentration RSD	0.8 %	0.6 %	0.4 %	0.4 %	0.2 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8762 ppm	0.3417 ppm	0.7489 ppm	0.8615 ppm	25.2381 ppm	4.8589 ppm	0.5329 ppm
Concentration per Run 1	0.8861 ppm	0.3438 ppm	0.7523 ppm	0.8631 ppm	25.1119 ppm	4.8407 ppm	0.5318 ppm
Concentration per Run 2	0.8762 ppm	0.3429 ppm	0.7493 ppm	0.8634 ppm	25.3848 ppm	4.8638 ppm	0.5335 ppm
Concentration per Run 3	0.8664 ppm	0.3384 ppm	0.7450 ppm	0.8579 ppm	25.2177 ppm	4.8722 ppm	0.5335 ppm
Concentration RSD	1.1 %	0.9 %	0.5 %	0.4 %	0.5 %	0.3 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.3839 ppm	2.2771 ppm	0.5718 ppm	7.3499 ppm	1.3185 ppm	0.3916 ppm	0.8992 ppm
Concentration per Run 1	6.4221 ppm	2.2852 ppm	0.5706 ppm	7.3246 ppm	1.3232 ppm	0.3931 ppm	0.8972 ppm
Concentration per Run 2	6.3876 ppm	2.2769 ppm	0.5755 ppm	7.3569 ppm	1.3192 ppm	0.3905 ppm	0.8998 ppm
Concentration per Run 3	6.3420 ppm	2.2692 ppm	0.5692 ppm	7.3683 ppm	1.3131 ppm	0.3911 ppm	0.9007 ppm
Concentration RSD	0.6 %	0.4 %	0.6 %	0.3 %	0.4 %	0.3 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6930 ppm	6.1864 ppm	0.3097 ppm	0.5511 ppm	1.3111 ppm	0.8687 ppm	0.4269 ppm
Concentration per Run 1	0.6910 ppm	6.1686 ppm	0.3104 ppm	0.5490 ppm	1.3130 ppm	0.8722 ppm	0.4282 ppm
Concentration per Run 2	0.6852 ppm	6.2943 ppm	0.3111 ppm	0.5529 ppm	1.3124 ppm	0.8643 ppm	0.4274 ppm
Concentration per Run 3	0.7028 ppm	6.0964 ppm	0.3075 ppm	0.5515 ppm	1.3079 ppm	0.8695 ppm	0.4252 ppm
Concentration RSD	1.3 %	1.6 %	0.6 %	0.4 %	0.2 %	0.5 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6984 ppm	110.4159 %	108.0507 %	108.2726 %	114.9971 %	112.5900 %	115.9729 %
Concentration per Run 1	0.7003 ppm	110.5013 %	108.1702 %	107.3480 %	115.0262 %	112.7017 %	115.2020 %
Concentration per Run 2	0.6980 ppm	110.2544 %	108.1904 %	108.9677 %	114.8098 %	113.0611 %	116.3236 %
Concentration per Run 3	0.6969 ppm	110.4919 %	107.7916 %	108.5022 %	115.1552 %	112.0073 %	116.3930 %
Concentration RSD	0.3 %	0.1 %	0.2 %	0.8 %	0.2 %	0.5 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1975909-3d2 WG1975909
Analysis started at: 9/26/2024 12:36:50 PM
Rack 1
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3364 ppm	19.4839 ppm	1.2445 ppm	0.9562 ppm	1.3843 ppm	0.6924 ppm	19.9943 ppm
Concentration per Run 1	0.3364 ppm	19.5428 ppm	1.2479 ppm	0.9591 ppm	1.3761 ppm	0.6899 ppm	20.0334 ppm
Concentration per Run 2	0.3358 ppm	19.4488 ppm	1.2432 ppm	0.9546 ppm	1.3907 ppm	0.6930 ppm	19.8990 ppm
Concentration per Run 3	0.3369 ppm	19.4601 ppm	1.2425 ppm	0.9550 ppm	1.3863 ppm	0.6944 ppm	20.0505 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %	0.3 %	0.5 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8641 ppm	0.3373 ppm	0.7414 ppm	0.8585 ppm	23.7198 ppm	4.6116 ppm	0.5162 ppm
Concentration per Run 1	0.8629 ppm	0.3371 ppm	0.7424 ppm	0.8604 ppm	23.5877 ppm	4.6351 ppm	0.5106 ppm
Concentration per Run 2	0.8669 ppm	0.3378 ppm	0.7384 ppm	0.8548 ppm	23.7985 ppm	4.6101 ppm	0.5196 ppm
Concentration per Run 3	0.8624 ppm	0.3370 ppm	0.7434 ppm	0.8602 ppm	23.7733 ppm	4.5897 ppm	0.5183 ppm
Concentration RSD	0.3 %	0.1 %	0.4 %	0.4 %	0.5 %	0.5 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.0610 ppm	2.4242 ppm	0.5679 ppm	7.1936 ppm	1.3059 ppm	0.3867 ppm	0.8811 ppm
Concentration per Run 1	6.0551 ppm	2.4192 ppm	0.5633 ppm	7.2035 ppm	1.3050 ppm	0.3883 ppm	0.8865 ppm
Concentration per Run 2	6.0553 ppm	2.4189 ppm	0.5651 ppm	7.1781 ppm	1.3038 ppm	0.3855 ppm	0.8735 ppm
Concentration per Run 3	6.0725 ppm	2.4344 ppm	0.5753 ppm	7.1991 ppm	1.3088 ppm	0.3863 ppm	0.8833 ppm
Concentration RSD	0.2 %	0.4 %	1.1 %	0.2 %	0.2 %	0.4 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6740 ppm	5.9635 ppm	0.2999 ppm	0.5588 ppm	1.2580 ppm	0.8551 ppm	0.4241 ppm
Concentration per Run 1	0.6709 ppm	6.1783 ppm	0.3013 ppm	0.5558 ppm	1.2567 ppm	0.8566 ppm	0.4233 ppm
Concentration per Run 2	0.6788 ppm	5.8124 ppm	0.2951 ppm	0.5612 ppm	1.2610 ppm	0.8545 ppm	0.4237 ppm
Concentration per Run 3	0.6723 ppm	5.8997 ppm	0.3032 ppm	0.5594 ppm	1.2564 ppm	0.8542 ppm	0.4252 ppm
Concentration RSD	0.6 %	3.2 %	1.4 %	0.5 %	0.2 %	0.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6806 ppm	110.3657 %	107.8686 %	107.1129 %	114.5889 %	112.3424 %	113.7888 %
Concentration per Run 1	0.6815 ppm	110.1551 %	109.9824 %	106.5436 %	114.5160 %	115.0259 %	113.5176 %
Concentration per Run 2	0.6776 ppm	110.4157 %	106.5969 %	108.2541 %	114.4837 %	110.3569 %	114.5869 %
Concentration per Run 3	0.6826 ppm	110.5264 %	107.0264 %	106.5411 %	114.7670 %	111.6443 %	113.2619 %
Concentration RSD	0.4 %	0.2 %	1.7 %	0.9 %	0.1 %	2.1 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2455216-01d2 WG1975909
Analysis started at: 9/26/2024 12:40:44 PM
Rack 1
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0019 ppm	123.6307 ppm	0.0802 ppm	0.0075 ppm	0.7551 ppm	0.0073 ppm	26.7554 ppm
Concentration per Run 1	0.0020 ppm	123.8875 ppm	0.0800 ppm	0.0068 ppm	0.7565 ppm	0.0073 ppm	26.7728 ppm
Concentration per Run 2	0.0018 ppm	123.5320 ppm	0.0801 ppm	0.0058 ppm	0.7554 ppm	0.0073 ppm	26.7528 ppm
Concentration per Run 3	0.0018 ppm	123.4725 ppm	0.0804 ppm	0.0100 ppm	0.7534 ppm	0.0072 ppm	26.7406 ppm
Concentration RSD	4.9 %	0.2 %	0.3 %	29.2 %	0.2 %	0.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0025 ppm	0.0776 ppm	0.2254 ppm	0.5827 ppm	192.9314 ppm	6.0699 ppm	0.1608 ppm
Concentration per Run 1	0.0023 ppm	0.0794 ppm	0.2297 ppm	0.5913 ppm	193.1233 ppm	6.0709 ppm	0.1610 ppm
Concentration per Run 2	0.0025 ppm	0.0734 ppm	0.2120 ppm	0.5541 ppm	193.1780 ppm	6.0676 ppm	0.1587 ppm
Concentration per Run 3	0.0025 ppm	0.0800 ppm	0.2344 ppm	0.6026 ppm	192.4929 ppm	6.0712 ppm	0.1627 ppm
Concentration RSD	4.6 %	4.7 %	5.3 %	4.4 %	0.2 %	0.0 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	40.1059 ppm	3.6029 ppm	0.0124 ppm	1.4921 ppm	0.1957 ppm	3.4480 ppm	0.0105 ppm
Concentration per Run 1	40.7244 ppm	3.6223 ppm	0.0124 ppm	1.5051 ppm	0.1991 ppm	3.5191 ppm	0.0073 ppm
Concentration per Run 2	38.0794 ppm	3.5879 ppm	0.0119 ppm	1.4885 ppm	0.1853 ppm	3.4124 ppm	0.0100 ppm
Concentration per Run 3	41.5140 ppm	3.5985 ppm	0.0129 ppm	1.4828 ppm	0.2028 ppm	3.4125 ppm	0.0143 ppm
Concentration RSD	4.5 %	0.5 %	4.1 %	0.8 %	4.7 %	1.8 %	33.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0089 ppm	3.9357 ppm	0.0556 ppm	0.1544 ppm	5.0944 ppm	0.0049 ppm	0.3743 ppm
Concentration per Run 1	0.0099 ppm	4.1743 ppm	0.0568 ppm	0.1542 ppm	5.1878 ppm	0.0057 ppm	0.3800 ppm
Concentration per Run 2	0.0088 ppm	3.5850 ppm	0.0514 ppm	0.1550 ppm	4.8255 ppm	0.0034 ppm	0.3557 ppm
Concentration per Run 3	0.0079 ppm	4.0479 ppm	0.0586 ppm	0.1539 ppm	5.2699 ppm	0.0056 ppm	0.3873 ppm
Concentration RSD	11.1 %	7.9 %	6.8 %	0.3 %	4.6 %	27.1 %	4.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.3628 ppm	113.4959 %	112.0131 %	106.3067 %	142.6678 %	146.8074 %	144.7141 %
Concentration per Run 1	1.3820 ppm	111.9551 %	112.8332 %	104.4857 %	144.0102 %	148.1055 %	142.0843 %
Concentration per Run 2	1.2905 ppm	118.8001 %	112.0082 %	106.4361 %	145.6581 %	146.7986 %	145.5328 %
Concentration per Run 3	1.4160 ppm	109.7326 %	111.1979 %	107.9983 %	138.3350 %	145.5181 %	146.5251 %
Concentration RSD	4.8 %	4.2 %	0.7 %	1.7 %	2.7 %	0.9 %	1.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-11d2 WG1975362
Analysis started at: 9/26/2024 12:44:39 PM
Rack 1
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	55.9660 ppm	0.0175 ppm	0.0057 ppm	0.3285 ppm	0.0059 ppm	16.2324 ppm
Concentration per Run 1	0.0006 ppm	55.8461 ppm	0.0171 ppm	0.0052 ppm	0.3296 ppm	0.0059 ppm	16.2572 ppm
Concentration per Run 2	0.0002 ppm	55.9269 ppm	0.0175 ppm	0.0063 ppm	0.3275 ppm	0.0059 ppm	16.2298 ppm
Concentration per Run 3	0.0013 ppm	56.1250 ppm	0.0180 ppm	0.0056 ppm	0.3286 ppm	0.0059 ppm	16.2102 ppm
Concentration RSD	78.8 %	0.3 %	2.6 %	10.3 %	0.3 %	0.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0239 ppm	0.0490 ppm	0.0425 ppm	158.8450 ppm	2.6223 ppm	0.0518 ppm
Concentration per Run 1	0.0002 ppm	0.0237 ppm	0.0490 ppm	0.0425 ppm	159.0593 ppm	2.6188 ppm	0.0521 ppm
Concentration per Run 2	0.0004 ppm	0.0245 ppm	0.0488 ppm	0.0422 ppm	158.6421 ppm	2.6337 ppm	0.0505 ppm
Concentration per Run 3	0.0003 ppm	0.0234 ppm	0.0491 ppm	0.0427 ppm	158.8336 ppm	2.6145 ppm	0.0529 ppm
Concentration RSD	41.8 %	2.4 %	0.3 %	0.6 %	0.1 %	0.4 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.7739 ppm	1.0047 ppm	0.0052 ppm	0.6910 ppm	0.0280 ppm	0.0289 ppm	0.0009 ppm
Concentration per Run 1	12.7839 ppm	1.0070 ppm	0.0053 ppm	0.6954 ppm	0.0282 ppm	0.0290 ppm	0.0046 ppm
Concentration per Run 2	12.7669 ppm	1.0053 ppm	0.0055 ppm	0.6828 ppm	0.0270 ppm	0.0277 ppm	0.0008 ppm
Concentration per Run 3	12.7710 ppm	1.0018 ppm	0.0047 ppm	0.6949 ppm	0.0287 ppm	0.0300 ppm	-0.0028 ppm
Concentration RSD	0.1 %	0.3 %	7.7 %	1.0 %	3.1 %	3.9 %	427.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0027 ppm	4.8267 ppm	0.0087 ppm	0.0605 ppm	3.8121 ppm	0.0056 ppm	0.1459 ppm
Concentration per Run 1	0.0012 ppm	4.8544 ppm	0.0089 ppm	0.0609 ppm	3.8178 ppm	0.0060 ppm	0.1453 ppm
Concentration per Run 2	0.0049 ppm	4.8179 ppm	0.0070 ppm	0.0600 ppm	3.8074 ppm	0.0055 ppm	0.1461 ppm
Concentration per Run 3	0.0020 ppm	4.8079 ppm	0.0101 ppm	0.0605 ppm	3.8111 ppm	0.0052 ppm	0.1462 ppm
Concentration RSD	73.4 %	0.5 %	17.6 %	0.7 %	0.1 %	6.7 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3044 ppm	113.3338 %	110.7567 %	110.2862 %	**204.3325 %**	**203.7206 %**	**206.5309 %**
Concentration per Run 1	0.3035 ppm	113.7557 %	110.3611 %	109.8974 %	**204.6108 %**	**203.0774 %**	**205.1110 %**
Concentration per Run 2	0.3055 ppm	113.5709 %	111.7960 %	111.0944 %	**204.7597 %**	**205.8813 %**	**208.5561 %**
Concentration per Run 3	0.3041 ppm	112.6747 %	110.1132 %	109.8667 %	**203.6271 %**	**202.2030 %**	**205.9258 %**
Concentration RSD	0.3 %	0.5 %	0.8 %	0.6 %	**0.3 %**	**0.9 %**	**0.9 %**

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: xL2454093-12d2 WG1975362
Analysis started at: 9/26/2024 12:48:31 PM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	80.4100 ppm	0.0127 ppm	0.0056 ppm	0.3870 ppm	0.0045 ppm	16.7401 ppm
Concentration per Run 1	0.0007 ppm	80.1251 ppm	0.0132 ppm	0.0063 ppm	0.3862 ppm	0.0045 ppm	16.7077 ppm
Concentration per Run 2	0.0003 ppm	80.3905 ppm	0.0078 ppm	0.0056 ppm	0.3871 ppm	0.0044 ppm	16.7079 ppm
Concentration per Run 3	0.0011 ppm	80.7144 ppm	0.0169 ppm	0.0050 ppm	0.3877 ppm	0.0045 ppm	16.8048 ppm
Concentration RSD	54.3 %	0.4 %	36.2 %	11.6 %	0.2 %	0.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0136 ppm	0.0491 ppm	0.0362 ppm	51.8981 ppm	2.0332 ppm	0.0552 ppm
Concentration per Run 1	0.0014 ppm	0.0138 ppm	0.0487 ppm	0.0356 ppm	51.9475 ppm	2.0437 ppm	0.0562 ppm
Concentration per Run 2	0.0016 ppm	0.0133 ppm	0.0499 ppm	0.0365 ppm	51.9163 ppm	2.0201 ppm	0.0543 ppm
Concentration per Run 3	0.0015 ppm	0.0137 ppm	0.0486 ppm	0.0363 ppm	51.8304 ppm	2.0358 ppm	0.0550 ppm
Concentration RSD	4.2 %	1.8 %	1.4 %	1.3 %	0.1 %	0.6 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.5399 ppm	0.3100 ppm	0.0014 ppm	0.6811 ppm	0.0320 ppm	0.0848 ppm	0.0026 ppm
Concentration per Run 1	8.5182 ppm	0.3111 ppm	0.0012 ppm	0.6800 ppm	0.0317 ppm	0.0844 ppm	-0.0025 ppm
Concentration per Run 2	8.5673 ppm	0.3089 ppm	0.0012 ppm	0.6730 ppm	0.0315 ppm	0.0857 ppm	0.0048 ppm
Concentration per Run 3	8.5344 ppm	0.3099 ppm	0.0018 ppm	0.6905 ppm	0.0328 ppm	0.0842 ppm	0.0055 ppm
Concentration RSD	0.3 %	0.4 %	24.7 %	1.3 %	2.3 %	1.0 %	172.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0045 ppm	6.3263 ppm	0.0095 ppm	0.0636 ppm	1.8763 ppm	0.0016 ppm	0.0789 ppm
Concentration per Run 1	0.0065 ppm	6.3417 ppm	0.0095 ppm	0.0637 ppm	1.8639 ppm	0.0028 ppm	0.0789 ppm
Concentration per Run 2	0.0019 ppm	6.3242 ppm	0.0093 ppm	0.0634 ppm	1.8869 ppm	0.0009 ppm	0.0793 ppm
Concentration per Run 3	0.0052 ppm	6.3130 ppm	0.0098 ppm	0.0637 ppm	1.8780 ppm	0.0012 ppm	0.0787 ppm
Concentration RSD	52.5 %	0.2 %	3.0 %	0.3 %	0.6 %	64.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2533 ppm	111.9032 %	108.4982 %	108.4412 %	148.5115 %	145.5876 %	148.9796 %
Concentration per Run 1	0.2529 ppm	111.9899 %	108.2192 %	108.8374 %	148.5400 %	145.0526 %	149.1147 %
Concentration per Run 2	0.2541 ppm	110.8592 %	109.2914 %	108.5514 %	147.1622 %	146.5084 %	149.4324 %
Concentration per Run 3	0.2527 ppm	112.8604 %	107.9841 %	107.9347 %	149.8322 %	145.2018 %	148.3916 %
Concentration RSD	0.3 %	0.9 %	0.6 %	0.4 %	0.9 %	0.6 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-13d2 WG1975362
Analysis started at: 9/26/2024 12:52:24 PM
Rack 1
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0011 ppm	112.1161 ppm	0.0192 ppm	0.0237 ppm	0.7018 ppm	0.0077 ppm	64.0149 ppm
Concentration per Run 1	0.0010 ppm	112.1132 ppm	0.0168 ppm	0.0259 ppm	0.7001 ppm	0.0077 ppm	64.0875 ppm
Concentration per Run 2	0.0010 ppm	110.9164 ppm	0.0216 ppm	0.0235 ppm	0.6952 ppm	0.0076 ppm	63.3717 ppm
Concentration per Run 3	0.0011 ppm	113.3188 ppm	0.0191 ppm	0.0216 ppm	0.7100 ppm	0.0078 ppm	64.5856 ppm
Concentration RSD	7.4 %	1.1 %	12.7 %	9.1 %	1.1 %	1.1 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0385 ppm	0.0864 ppm	0.1049 ppm	163.1095 ppm	10.6364 ppm	0.1054 ppm
Concentration per Run 1	0.0009 ppm	0.0388 ppm	0.0862 ppm	0.1050 ppm	162.5911 ppm	10.6326 ppm	0.1051 ppm
Concentration per Run 2	0.0012 ppm	0.0385 ppm	0.0856 ppm	0.1042 ppm	161.5737 ppm	10.5429 ppm	0.1051 ppm
Concentration per Run 3	0.0013 ppm	0.0384 ppm	0.0875 ppm	0.1056 ppm	165.1638 ppm	10.7338 ppm	0.1060 ppm
Concentration RSD	15.9 %	0.5 %	1.1 %	0.7 %	1.1 %	0.9 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.0888 ppm	2.4848 ppm	0.0029 ppm	1.7427 ppm	0.0565 ppm	0.0725 ppm	0.0008 ppm
Concentration per Run 1	25.0771 ppm	2.4899 ppm	0.0030 ppm	1.7436 ppm	0.0568 ppm	0.0739 ppm	0.0014 ppm
Concentration per Run 2	25.0298 ppm	2.4644 ppm	0.0031 ppm	1.7220 ppm	0.0561 ppm	0.0721 ppm	-0.0043 ppm
Concentration per Run 3	25.1594 ppm	2.5001 ppm	0.0028 ppm	1.7625 ppm	0.0566 ppm	0.0714 ppm	0.0054 ppm
Concentration RSD	0.3 %	0.7 %	5.3 %	1.2 %	0.7 %	1.8 %	580.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0053 ppm	5.7032 ppm	0.0143 ppm	0.1482 ppm	3.9183 ppm	0.0038 ppm	0.1625 ppm
Concentration per Run 1	0.0089 ppm	5.6703 ppm	0.0148 ppm	0.1479 ppm	3.9098 ppm	0.0035 ppm	0.1628 ppm
Concentration per Run 2	0.0058 ppm	5.7086 ppm	0.0146 ppm	0.1470 ppm	3.9139 ppm	0.0033 ppm	0.1618 ppm
Concentration per Run 3	0.0014 ppm	5.7306 ppm	0.0134 ppm	0.1497 ppm	3.9311 ppm	0.0046 ppm	0.1627 ppm
Concentration RSD	70.1 %	0.5 %	5.4 %	0.9 %	0.3 %	18.4 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5491 ppm	113.4709 %	113.0076 %	109.0989 %	**176.3668 %**	**178.9456 %**	**177.8162 %**
Concentration per Run 1	0.5496 ppm	112.7655 %	114.2626 %	109.8805 %	**175.2531 %**	**180.7718 %**	**179.0213 %**
Concentration per Run 2	0.5451 ppm	114.0548 %	113.0112 %	108.5669 %	**176.7952 %**	**178.4017 %**	**176.5193 %**
Concentration per Run 3	0.5525 ppm	113.5924 %	111.7490 %	108.8494 %	**177.0522 %**	**177.6633 %**	**177.9081 %**
Concentration RSD	0.7 %	0.6 %	1.1 %	0.6 %	**0.6 %**	**0.9 %**	**0.7 %**

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-14d2 WG1975362
Analysis started at: 9/26/2024 12:56:17 PM
Rack 1
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0018 ppm	149.8102 ppm	0.0190 ppm	0.0097 ppm	0.7419 ppm	0.0100 ppm	22.7961 ppm
Concentration per Run 1	0.0019 ppm	149.9135 ppm	0.0153 ppm	0.0103 ppm	0.7438 ppm	0.0100 ppm	22.7968 ppm
Concentration per Run 2	0.0021 ppm	149.4539 ppm	0.0213 ppm	0.0093 ppm	0.7395 ppm	0.0100 ppm	22.6720 ppm
Concentration per Run 3	0.0016 ppm	150.0632 ppm	0.0204 ppm	0.0093 ppm	0.7424 ppm	0.0100 ppm	22.9194 ppm
Concentration RSD	12.9 %	0.2 %	17.0 %	5.8 %	0.3 %	0.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.0411 ppm	0.1121 ppm	0.1272 ppm	180.6667 ppm	5.5969 ppm	0.1296 ppm
Concentration per Run 1	0.0020 ppm	0.0408 ppm	0.1116 ppm	0.1277 ppm	180.3942 ppm	5.6134 ppm	0.1297 ppm
Concentration per Run 2	0.0019 ppm	0.0418 ppm	0.1130 ppm	0.1272 ppm	180.3293 ppm	5.5933 ppm	0.1300 ppm
Concentration per Run 3	0.0018 ppm	0.0405 ppm	0.1117 ppm	0.1268 ppm	181.2765 ppm	5.5839 ppm	0.1293 ppm
Concentration RSD	4.8 %	1.7 %	0.7 %	0.3 %	0.3 %	0.3 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.0821 ppm	1.8580 ppm	0.0030 ppm	1.2989 ppm	0.0632 ppm	0.1095 ppm	-0.0048 ppm
Concentration per Run 1	24.0319 ppm	1.8652 ppm	0.0029 ppm	1.3017 ppm	0.0630 ppm	0.1091 ppm	-0.0033 ppm
Concentration per Run 2	24.1462 ppm	1.8501 ppm	0.0036 ppm	1.2979 ppm	0.0633 ppm	0.1098 ppm	-0.0026 ppm
Concentration per Run 3	24.0684 ppm	1.8587 ppm	0.0025 ppm	1.2969 ppm	0.0633 ppm	0.1094 ppm	-0.0085 ppm
Concentration RSD	0.2 %	0.4 %	18.8 %	0.2 %	0.3 %	0.3 %	68.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0056 ppm	6.6619 ppm	0.0170 ppm	0.0854 ppm	5.2437 ppm	0.0047 ppm	0.2387 ppm
Concentration per Run 1	0.0054 ppm	6.6729 ppm	0.0172 ppm	0.0853 ppm	5.2433 ppm	0.0064 ppm	0.2390 ppm
Concentration per Run 2	0.0079 ppm	6.6477 ppm	0.0167 ppm	0.0855 ppm	5.2766 ppm	0.0046 ppm	0.2380 ppm
Concentration per Run 3	0.0036 ppm	6.6651 ppm	0.0169 ppm	0.0855 ppm	5.2113 ppm	0.0031 ppm	0.2391 ppm
Concentration RSD	39.1 %	0.2 %	1.3 %	0.1 %	0.6 %	35.0 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7645 ppm	113.4010 %	112.6430 %	108.9775 %	**161.4019 %**	**162.1852 %**	**161.6009 %**
Concentration per Run 1	0.7647 ppm	114.3274 %	113.8083 %	109.3754 %	**162.5889 %**	**163.3504 %**	**162.0123 %**
Concentration per Run 2	0.7671 ppm	112.7941 %	112.9454 %	108.6448 %	**160.2646 %**	**162.5439 %**	**160.7075 %**
Concentration per Run 3	0.7616 ppm	113.0814 %	111.1753 %	108.9122 %	**161.3521 %**	**160.6614 %**	**162.0827 %**
Concentration RSD	0.4 %	0.7 %	1.2 %	0.3 %	**0.7 %**	**0.9 %**	**0.5 %**

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454093-12d2 WG1975362
Analysis started at: 9/26/2024 1:00:12 PM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	80.6213 ppm	0.0131 ppm	0.0062 ppm	0.3866 ppm	0.0045 ppm	16.7300 ppm
Concentration per Run 1	0.0003 ppm	81.2374 ppm	0.0132 ppm	0.0055 ppm	0.3902 ppm	0.0046 ppm	16.8566 ppm
Concentration per Run 2	0.0011 ppm	80.1464 ppm	0.0146 ppm	0.0060 ppm	0.3837 ppm	0.0044 ppm	16.6302 ppm
Concentration per Run 3	0.0007 ppm	80.4800 ppm	0.0117 ppm	0.0072 ppm	0.3860 ppm	0.0044 ppm	16.7032 ppm
Concentration RSD	60.0 %	0.7 %	11.0 %	13.8 %	0.8 %	2.1 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0141 ppm	0.0497 ppm	0.0365 ppm	51.8059 ppm	2.0173 ppm	0.0550 ppm
Concentration per Run 1	0.0014 ppm	0.0138 ppm	0.0492 ppm	0.0358 ppm	52.1630 ppm	2.0621 ppm	0.0561 ppm
Concentration per Run 2	0.0017 ppm	0.0146 ppm	0.0496 ppm	0.0369 ppm	51.3056 ppm	1.9973 ppm	0.0537 ppm
Concentration per Run 3	0.0013 ppm	0.0139 ppm	0.0502 ppm	0.0368 ppm	51.9490 ppm	1.9925 ppm	0.0551 ppm
Concentration RSD	11.4 %	3.0 %	0.9 %	1.7 %	0.9 %	1.9 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.5879 ppm	0.3095 ppm	0.0012 ppm	0.6837 ppm	0.0316 ppm	0.0839 ppm	-0.0016 ppm
Concentration per Run 1	8.5075 ppm	0.3097 ppm	0.0013 ppm	0.6839 ppm	0.0311 ppm	0.0826 ppm	-0.0031 ppm
Concentration per Run 2	8.6395 ppm	0.3079 ppm	0.0014 ppm	0.6802 ppm	0.0317 ppm	0.0857 ppm	0.0002 ppm
Concentration per Run 3	8.6167 ppm	0.3109 ppm	0.0010 ppm	0.6869 ppm	0.0321 ppm	0.0835 ppm	-0.0018 ppm
Concentration RSD	0.8 %	0.5 %	17.3 %	0.5 %	1.6 %	1.9 %	106.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0058 ppm	6.3076 ppm	0.0095 ppm	0.0635 ppm	1.8901 ppm	0.0013 ppm	0.0791 ppm
Concentration per Run 1	0.0037 ppm	6.2349 ppm	0.0100 ppm	0.0639 ppm	1.8722 ppm	0.0015 ppm	0.0780 ppm
Concentration per Run 2	0.0067 ppm	6.3364 ppm	0.0098 ppm	0.0631 ppm	1.8977 ppm	0.0001 ppm	0.0799 ppm
Concentration per Run 3	0.0071 ppm	6.3516 ppm	0.0086 ppm	0.0634 ppm	1.9005 ppm	0.0023 ppm	0.0795 ppm
Concentration RSD	31.9 %	1.0 %	8.1 %	0.7 %	0.8 %	86.2 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2552 ppm	111.0526 %	108.9620 %	108.3693 %	147.8991 %	146.6367 %	148.9796 %
Concentration per Run 1	0.2536 ppm	112.4440 %	108.8006 %	107.4600 %	149.8163 %	147.4073 %	147.7940 %
Concentration per Run 2	0.2560 ppm	110.0791 %	108.9109 %	108.6651 %	146.8557 %	146.0568 %	149.5102 %
Concentration per Run 3	0.2559 ppm	110.6346 %	109.1745 %	108.9828 %	147.0253 %	146.4459 %	149.6347 %
Concentration RSD	0.5 %	1.1 %	0.2 %	0.7 %	1.1 %	0.5 %	0.7 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: xL2453602-17d20 WG1974094
Analysis started at: 9/26/2024 1:04:06 PM
Rack 1
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0034 ppm	7.1090 ppm	0.0098 ppm	0.0019 ppm	0.0450 ppm	0.0003 ppm	1.0026 ppm
Concentration per Run 1	0.0034 ppm	7.1244 ppm	0.0097 ppm	0.0021 ppm	0.0450 ppm	0.0003 ppm	1.0027 ppm
Concentration per Run 2	0.0035 ppm	7.1313 ppm	0.0076 ppm	0.0012 ppm	0.0452 ppm	0.0003 ppm	0.9991 ppm
Concentration per Run 3	0.0033 ppm	7.0712 ppm	0.0120 ppm	0.0023 ppm	0.0450 ppm	0.0003 ppm	1.0059 ppm
Concentration RSD	2.6 %	0.5 %	22.3 %	31.2 %	0.3 %	8.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0062 ppm	0.0155 ppm	75.8199 ppm	12.4505 ppm	0.7790 ppm	0.0085 ppm
Concentration per Run 1	0.0001 ppm	0.0053 ppm	0.0161 ppm	75.8367 ppm	12.4958 ppm	0.7950 ppm	0.0097 ppm
Concentration per Run 2	0.0001 ppm	0.0062 ppm	0.0150 ppm	75.6343 ppm	12.4726 ppm	0.7767 ppm	0.0070 ppm
Concentration per Run 3	0.0002 ppm	0.0071 ppm	0.0155 ppm	75.9888 ppm	12.3829 ppm	0.7652 ppm	0.0087 ppm
Concentration RSD	69.3 %	14.3 %	3.5 %	0.2 %	0.5 %	1.9 %	16.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.4218 ppm	0.4280 ppm	0.0004 ppm	0.0745 ppm	0.0137 ppm	4.0900 ppm	0.0349 ppm
Concentration per Run 1	2.4338 ppm	0.4300 ppm	-0.0001 ppm	0.0771 ppm	0.0132 ppm	4.1561 ppm	0.0345 ppm
Concentration per Run 2	2.4135 ppm	0.4274 ppm	0.0011 ppm	0.0730 ppm	0.0137 ppm	4.1637 ppm	0.0359 ppm
Concentration per Run 3	2.4183 ppm	0.4265 ppm	0.0002 ppm	0.0732 ppm	0.0140 ppm	3.9503 ppm	0.0345 ppm
Concentration RSD	0.4 %	0.4 %	168.6 %	3.1 %	3.0 %	3.0 %	2.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0169 ppm	0.3536 ppm	8.4626 ppm	0.0079 ppm	0.4860 ppm	0.0005 ppm	0.0243 ppm
Concentration per Run 1	0.0149 ppm	0.3605 ppm	8.4691 ppm	0.0081 ppm	0.4888 ppm	0.0012 ppm	0.0244 ppm
Concentration per Run 2	0.0171 ppm	0.3492 ppm	8.4480 ppm	0.0079 ppm	0.4846 ppm	-0.0005 ppm	0.0244 ppm
Concentration per Run 3	0.0187 ppm	0.3511 ppm	8.4707 ppm	0.0077 ppm	0.4847 ppm	0.0007 ppm	0.0242 ppm
Concentration RSD	11.1 %	1.7 %	0.1 %	2.6 %	0.5 %	182.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0876 ppm	109.9871 %	107.0419 %	110.8569 %	109.4376 %	106.6145 %	94.1403 %
Concentration per Run 1	0.0877 ppm	110.5021 %	107.2709 %	109.5398 %	109.5024 %	107.2114 %	92.8394 %
Concentration per Run 2	0.0873 ppm	109.7955 %	107.2484 %	108.8484 %	109.3896 %	106.7274 %	92.3869 %
Concentration per Run 3	0.0878 ppm	109.6636 %	106.6064 %	114.1825 %	109.4209 %	105.9047 %	97.1947 %
Concentration RSD	0.3 %	0.4 %	0.4 %	2.6 %	0.1 %	0.6 %	2.8 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 1:08:00 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4947 ppm	0.4729 ppm	0.4749 ppm	0.4853 ppm	0.4891 ppm	0.5023 ppm	0.4829 ppm
Concentration per Run 1	0.4915 ppm	0.4675 ppm	0.4701 ppm	0.4822 ppm	0.4884 ppm	0.5012 ppm	0.4836 ppm
Concentration per Run 2	0.4964 ppm	0.4819 ppm	0.4785 ppm	0.4873 ppm	0.4882 ppm	0.5026 ppm	0.4829 ppm
Concentration per Run 3	0.4962 ppm	0.4693 ppm	0.4760 ppm	0.4864 ppm	0.4906 ppm	0.5030 ppm	0.4822 ppm
Recovery Percentage 1	98.939 %	94.581 %	94.971 %	97.060 %	97.812 %	100.451 %	96.578 %
Concentration RSD	0.6 %	1.7 %	0.9 %	0.6 %	0.3 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4899 ppm	0.4987 ppm	0.4802 ppm	0.4824 ppm	0.4922 ppm	5.1231 ppm	0.4800 ppm
Concentration per Run 1	0.4887 ppm	0.4956 ppm	0.4784 ppm	0.4807 ppm	0.4906 ppm	5.1176 ppm	0.4804 ppm
Concentration per Run 2	0.4960 ppm	0.5009 ppm	0.4804 ppm	0.4806 ppm	0.4918 ppm	5.1183 ppm	0.4777 ppm
Concentration per Run 3	0.4851 ppm	0.4997 ppm	0.4819 ppm	0.4860 ppm	0.4941 ppm	5.1335 ppm	0.4818 ppm
Recovery Percentage 1	97.981 %	99.744 %	96.046 %	96.487 %	98.432 %	102.462 %	95.997 %
Concentration RSD	1.1 %	0.5 %	0.4 %	0.6 %	0.4 %	0.2 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4761 ppm	0.4800 ppm	0.4771 ppm	9.8176 ppm	0.4957 ppm	0.4928 ppm	0.4964 ppm
Concentration per Run 1	0.4749 ppm	0.4794 ppm	0.4738 ppm	9.8505 ppm	0.4958 ppm	0.4890 ppm	0.4962 ppm
Concentration per Run 2	0.4789 ppm	0.4791 ppm	0.4765 ppm	9.8019 ppm	0.4931 ppm	0.4954 ppm	0.4955 ppm
Concentration per Run 3	0.4746 ppm	0.4815 ppm	0.4811 ppm	9.8004 ppm	0.4982 ppm	0.4941 ppm	0.4974 ppm
Recovery Percentage 1	95.224 %	96.003 %	95.427 %	98.176 %	99.138 %	98.564 %	99.280 %
Concentration RSD	0.5 %	0.3 %	0.8 %	0.3 %	0.5 %	0.7 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4914 ppm	5.2210 ppm	0.4829 ppm	0.4629 ppm	0.4875 ppm	0.4888 ppm	0.4781 ppm
Concentration per Run 1	0.4867 ppm	5.1845 ppm	0.4859 ppm	0.4625 ppm	0.4853 ppm	0.4846 ppm	0.4776 ppm
Concentration per Run 2	0.4935 ppm	5.2526 ppm	0.4806 ppm	0.4619 ppm	0.4891 ppm	0.4931 ppm	0.4789 ppm
Concentration per Run 3	0.4939 ppm	5.2261 ppm	0.4821 ppm	0.4643 ppm	0.4881 ppm	0.4885 ppm	0.4778 ppm
Recovery Percentage 1	98.272 %	99.448 %	96.573 %	92.577 %	97.500 %	97.751 %	95.619 %
Concentration RSD	0.8 %	0.7 %	0.6 %	0.3 %	0.4 %	0.9 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4970 ppm	110.4245 %	107.4630 %	109.6009 %	109.1164 %	106.1917 %	109.4413 %
Concentration per Run 1	0.4963 ppm	111.3202 %	107.9390 %	110.2074 %	110.1552 %	106.9775 %	110.0767 %
Concentration per Run 2	0.4956 ppm	111.0761 %	107.3271 %	108.5517 %	109.6653 %	105.9710 %	108.6952 %
Concentration per Run 3	0.4992 ppm	108.8772 %	107.1228 %	110.0437 %	107.5288 %	105.6266 %	109.5519 %
Recovery Percentage 1	99.405 %						
Concentration RSD	0.4 %	1.2 %	0.4 %	0.8 %	1.3 %	0.7 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 1:11:54 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0067 ppm	0.0012 ppm	0.0030 ppm	0.0001 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 1	0.0003 ppm	-0.0043 ppm	0.0030 ppm	0.0033 ppm	0.0001 ppm	0.0001 ppm	0.0023 ppm
Concentration per Run 2	0.0002 ppm	-0.0009 ppm	-0.0005 ppm	0.0018 ppm	0.0001 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 3	-0.0004 ppm	-0.0148 ppm	0.0011 ppm	0.0039 ppm	0.0001 ppm	0.0001 ppm	0.0013 ppm
Recovery Percentage 1	0.269 %	-6.661 %	24.261 %	9.992 %	0.952 %	1.118 %	2.075 %
Concentration RSD	2,056.0 %	108.8 %	144.9 %	36.8 %	27.9 %	42.8 %	32.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0011 ppm	0.0123 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0007 ppm	-0.0001 ppm	0.0005 ppm	0.0014 ppm	0.0172 ppm	-0.0005 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0010 ppm	0.0122 ppm	-0.0008 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0002 ppm	-0.0006 ppm	0.0008 ppm	0.0076 ppm	0.0009 ppm
Recovery Percentage 1	0.235 %	2.430 %	0.512 %	-0.110 %	2.211 %	0.493 %	-2.106 %
Concentration RSD	1,185.9 %	70.5 %	298.6 %	5,161.1 %	28.1 %	39.1 %	866.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0009 ppm	-0.0001 ppm	0.0009 ppm	-0.0146 ppm	0.0005 ppm	0.0008 ppm	0.0027 ppm
Concentration per Run 1	0.0015 ppm	-0.0001 ppm	0.0011 ppm	-0.0136 ppm	0.0002 ppm	0.0011 ppm	0.0013 ppm
Concentration per Run 2	0.0023 ppm	-0.0003 ppm	0.0012 ppm	-0.0190 ppm	0.0004 ppm	0.0005 ppm	0.0055 ppm
Concentration per Run 3	-0.0011 ppm	0.0000 ppm	0.0005 ppm	-0.0113 ppm	0.0010 ppm	0.0009 ppm	0.0012 ppm
Recovery Percentage 1	0.877 %	-1.155 %	1.847 %	-0.732 %	2.078 %	8.447 %	5.345 %
Concentration RSD	202.1 %	115.1 %	37.8 %	27.1 %	81.1 %	35.9 %	90.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0052 ppm	-0.0021 ppm	0.0016 ppm	0.0000 ppm	-0.0001 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 1	0.0090 ppm	-0.0035 ppm	0.0023 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	0.0061 ppm	-0.0015 ppm	0.0015 ppm	0.0000 ppm	-0.0001 ppm	0.0012 ppm	0.0002 ppm
Concentration per Run 3	0.0005 ppm	-0.0012 ppm	0.0011 ppm	0.0001 ppm	-0.0002 ppm	0.0023 ppm	0.0001 ppm
Recovery Percentage 1	51.870 %	-0.415 %	3.284 %	0.406 %	-0.674 %	5.881 %	1.447 %
Concentration RSD	83.5 %	61.8 %	37.8 %	240.8 %	294.6 %	100.4 %	61.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	108.0835 %	104.4424 %	108.0767 %	108.9482 %	104.5360 %	108.8739 %
Concentration per Run 1	0.0001 ppm	107.8906 %	103.9143 %	108.2885 %	109.1159 %	104.3595 %	109.2612 %
Concentration per Run 2	-0.0001 ppm	108.2278 %	104.0816 %	108.4141 %	108.9455 %	104.0125 %	108.9175 %
Concentration per Run 3	0.0003 ppm	108.1321 %	105.3314 %	107.5276 %	108.7832 %	105.2362 %	108.4431 %
Recovery Percentage 1	2.478 %						
Concentration RSD	153.5 %	0.2 %	0.7 %	0.4 %	0.2 %	0.6 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453602-19d10 WG1974094
Analysis started at: 9/26/2024 1:18:54 PM
Rack 1
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0077 ppm	5.0884 ppm	0.0167 ppm	0.0058 ppm	0.0521 ppm	0.0003 ppm	65.7346 ppm
Concentration per Run 1	0.0076 ppm	5.1048 ppm	0.0156 ppm	0.0054 ppm	0.0524 ppm	0.0003 ppm	65.7458 ppm
Concentration per Run 2	0.0076 ppm	5.0705 ppm	0.0164 ppm	0.0083 ppm	0.0522 ppm	0.0002 ppm	65.7763 ppm
Concentration per Run 3	0.0080 ppm	5.0899 ppm	0.0182 ppm	0.0036 ppm	0.0519 ppm	0.0003 ppm	65.6817 ppm
Concentration RSD	2.5 %	0.3 %	8.0 %	41.6 %	0.4 %	12.0 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0051 ppm	0.0083 ppm	0.2442 ppm	10.0971 ppm	2.9072 ppm	0.0277 ppm
Concentration per Run 1	0.0010 ppm	0.0058 ppm	0.0085 ppm	0.2441 ppm	10.1161 ppm	2.9185 ppm	0.0285 ppm
Concentration per Run 2	0.0014 ppm	0.0044 ppm	0.0083 ppm	0.2437 ppm	10.0800 ppm	2.8865 ppm	0.0274 ppm
Concentration per Run 3	0.0011 ppm	0.0050 ppm	0.0082 ppm	0.2447 ppm	10.0952 ppm	2.9166 ppm	0.0271 ppm
Concentration RSD	14.4 %	14.2 %	1.8 %	0.2 %	0.2 %	0.6 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.1439 ppm	0.1622 ppm	0.0000 ppm	1.1841 ppm	0.0082 ppm	32.3436 ppm	0.4257 ppm
Concentration per Run 1	3.1222 ppm	0.1623 ppm	-0.0003 ppm	1.1820 ppm	0.0080 ppm	32.1692 ppm	0.4200 ppm
Concentration per Run 2	3.1485 ppm	0.1624 ppm	0.0005 ppm	1.1833 ppm	0.0084 ppm	32.3662 ppm	0.4245 ppm
Concentration per Run 3	3.1611 ppm	0.1619 ppm	-0.0001 ppm	1.1869 ppm	0.0081 ppm	32.4952 ppm	0.4327 ppm
Concentration RSD	0.6 %	0.2 %	1,121.7 %	0.2 %	2.4 %	0.5 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0030 ppm	1.9204 ppm	1.2077 ppm	0.8148 ppm	0.2827 ppm	0.0008 ppm	0.0268 ppm
Concentration per Run 1	0.0066 ppm	1.9211 ppm	1.2028 ppm	0.8198 ppm	0.2811 ppm	0.0000 ppm	0.0266 ppm
Concentration per Run 2	0.0005 ppm	1.9056 ppm	1.2006 ppm	0.8119 ppm	0.2827 ppm	-0.0002 ppm	0.0267 ppm
Concentration per Run 3	0.0020 ppm	1.9345 ppm	1.2198 ppm	0.8127 ppm	0.2844 ppm	0.0026 ppm	0.0270 ppm
Concentration RSD	105.2 %	0.8 %	0.9 %	0.5 %	0.6 %	196.4 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0801 ppm	107.0272 %	106.9242 %	103.7830 %	104.6021 %	107.1925 %	105.3980 %
Concentration per Run 1	0.0796 ppm	107.0204 %	106.2539 %	103.9033 %	104.2570 %	106.6830 %	105.4946 %
Concentration per Run 2	0.0798 ppm	107.4927 %	107.5954 %	103.4557 %	105.0256 %	107.7732 %	104.7000 %
Concentration per Run 3	0.0808 ppm	106.5683 %	106.9232 %	103.9900 %	104.5237 %	107.1213 %	105.9995 %
Concentration RSD	0.9 %	0.4 %	0.6 %	0.3 %	0.4 %	0.5 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453602-17d200 WG1974094
Analysis started at: 9/26/2024 1:23:01 PM
Rack 2
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.7223 ppm	-0.0003 ppm	0.0026 ppm	0.0047 ppm	0.0001 ppm	0.1023 ppm
Concentration per Run 1	0.0004 ppm	0.7181 ppm	0.0002 ppm	0.0025 ppm	0.0047 ppm	0.0001 ppm	0.1051 ppm
Concentration per Run 2	0.0002 ppm	0.7251 ppm	-0.0011 ppm	0.0028 ppm	0.0047 ppm	0.0001 ppm	0.1000 ppm
Concentration per Run 3	0.0004 ppm	0.7238 ppm	0.0000 ppm	0.0023 ppm	0.0047 ppm	0.0001 ppm	0.1019 ppm
Concentration RSD	44.7 %	0.5 %	235.0 %	10.4 %	0.9 %	41.5 %	2.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0018 ppm	8.4223 ppm	1.2610 ppm	0.0917 ppm	0.0021 ppm
Concentration per Run 1	0.0001 ppm	0.0006 ppm	0.0018 ppm	8.4543 ppm	1.2654 ppm	0.0681 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0006 ppm	0.0017 ppm	8.4216 ppm	1.2584 ppm	0.1272 ppm	0.0029 ppm
Concentration per Run 3	-0.0001 ppm	0.0011 ppm	0.0018 ppm	8.3911 ppm	1.2592 ppm	0.0797 ppm	0.0029 ppm
Concentration RSD	5,202.3 %	37.5 %	5.2 %	0.4 %	0.3 %	34.2 %	60.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.2539 ppm	0.0432 ppm	0.0002 ppm	-0.0041 ppm	0.0020 ppm	0.4267 ppm	0.0052 ppm
Concentration per Run 1	0.2577 ppm	0.0434 ppm	0.0002 ppm	0.0003 ppm	0.0021 ppm	0.4286 ppm	0.0047 ppm
Concentration per Run 2	0.2510 ppm	0.0431 ppm	0.0004 ppm	-0.0083 ppm	0.0014 ppm	0.4271 ppm	0.0084 ppm
Concentration per Run 3	0.2529 ppm	0.0432 ppm	0.0000 ppm	-0.0043 ppm	0.0025 ppm	0.4245 ppm	0.0025 ppm
Concentration RSD	1.4 %	0.4 %	84.7 %	105.2 %	28.9 %	0.5 %	57.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	0.0359 ppm	0.8779 ppm	0.0009 ppm	0.0493 ppm	-0.0006 ppm	0.0025 ppm
Concentration per Run 1	0.0030 ppm	0.0367 ppm	0.8842 ppm	0.0011 ppm	0.0498 ppm	-0.0028 ppm	0.0029 ppm
Concentration per Run 2	0.0025 ppm	0.0359 ppm	0.8680 ppm	0.0007 ppm	0.0488 ppm	0.0019 ppm	0.0022 ppm
Concentration per Run 3	0.0008 ppm	0.0349 ppm	0.8813 ppm	0.0009 ppm	0.0492 ppm	-0.0009 ppm	0.0024 ppm
Concentration RSD	54.5 %	2.5 %	1.0 %	19.6 %	1.1 %	410.9 %	14.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0089 ppm	109.0372 %	105.2020 %	109.2229 %	108.6296 %	104.7754 %	107.1187 %
Concentration per Run 1	0.0089 ppm	109.0662 %	105.4275 %	109.3518 %	108.5931 %	105.2234 %	107.3152 %
Concentration per Run 2	0.0090 ppm	109.4073 %	104.8527 %	109.2620 %	109.0502 %	104.1643 %	106.8755 %
Concentration per Run 3	0.0089 ppm	108.6381 %	105.3259 %	109.0549 %	108.2456 %	104.9386 %	107.1653 %
Concentration RSD	0.6 %	0.4 %	0.3 %	0.1 %	0.4 %	0.5 %	0.2 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 1:28:26 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5007 ppm	0.4701 ppm	0.4736 ppm	0.4877 ppm	0.4903 ppm	0.5039 ppm	0.4876 ppm
Concentration per Run 1	0.5006 ppm	0.4762 ppm	0.4790 ppm	0.4883 ppm	0.4923 ppm	0.5037 ppm	0.4895 ppm
Concentration per Run 2	0.4999 ppm	0.4705 ppm	0.4693 ppm	0.4838 ppm	0.4883 ppm	0.5051 ppm	0.4855 ppm
Concentration per Run 3	0.5017 ppm	0.4637 ppm	0.4724 ppm	0.4912 ppm	0.4903 ppm	0.5028 ppm	0.4879 ppm
Recovery Percentage 1	100.144 %	94.024 %	94.718 %	97.549 %	98.063 %	100.776 %	97.528 %
Concentration RSD	0.2 %	1.3 %	1.0 %	0.8 %	0.4 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4994 ppm	0.5043 ppm	0.4837 ppm	0.4836 ppm	0.4958 ppm	5.1284 ppm	0.4838 ppm
Concentration per Run 1	0.5035 ppm	0.5061 ppm	0.4858 ppm	0.4835 ppm	0.4978 ppm	5.1408 ppm	0.4868 ppm
Concentration per Run 2	0.4943 ppm	0.5010 ppm	0.4836 ppm	0.4822 ppm	0.4957 ppm	5.1600 ppm	0.4840 ppm
Concentration per Run 3	0.5006 ppm	0.5059 ppm	0.4819 ppm	0.4851 ppm	0.4939 ppm	5.0843 ppm	0.4806 ppm
Recovery Percentage 1	99.890 %	100.869 %	96.748 %	96.722 %	99.161 %	102.567 %	96.758 %
Concentration RSD	0.9 %	0.6 %	0.4 %	0.3 %	0.4 %	0.8 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4807 ppm	0.4824 ppm	0.4794 ppm	9.8409 ppm	0.4994 ppm	0.4925 ppm	0.5005 ppm
Concentration per Run 1	0.4806 ppm	0.4821 ppm	0.4768 ppm	9.8501 ppm	0.5008 ppm	0.4911 ppm	0.5006 ppm
Concentration per Run 2	0.4814 ppm	0.4833 ppm	0.4777 ppm	9.8453 ppm	0.4986 ppm	0.4931 ppm	0.4946 ppm
Concentration per Run 3	0.4801 ppm	0.4818 ppm	0.4837 ppm	9.8273 ppm	0.4989 ppm	0.4932 ppm	0.5064 ppm
Recovery Percentage 1	96.137 %	96.484 %	95.883 %	98.409 %	99.890 %	98.496 %	100.105 %
Concentration RSD	0.1 %	0.2 %	0.8 %	0.1 %	0.2 %	0.2 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4910 ppm	5.2741 ppm	0.4726 ppm	0.4648 ppm	0.4917 ppm	0.4889 ppm	0.4825 ppm
Concentration per Run 1	0.4911 ppm	5.2577 ppm	0.4727 ppm	0.4661 ppm	0.4923 ppm	0.4865 ppm	0.4821 ppm
Concentration per Run 2	0.4894 ppm	5.2753 ppm	0.4724 ppm	0.4635 ppm	0.4915 ppm	0.4886 ppm	0.4824 ppm
Concentration per Run 3	0.4925 ppm	5.2894 ppm	0.4729 ppm	0.4647 ppm	0.4912 ppm	0.4916 ppm	0.4831 ppm
Recovery Percentage 1	98.201 %	100.459 %	94.530 %	92.959 %	98.333 %	97.775 %	96.504 %
Concentration RSD	0.3 %	0.3 %	0.1 %	0.3 %	0.1 %	0.5 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5022 ppm	109.1811 %	107.5446 %	109.0343 %	107.9756 %	106.5391 %	108.6866 %
Concentration per Run 1	0.5023 ppm	108.7760 %	108.0805 %	109.5976 %	107.3464 %	107.0317 %	109.4397 %
Concentration per Run 2	0.5016 ppm	109.6652 %	106.4429 %	108.7036 %	108.5531 %	105.3977 %	107.9198 %
Concentration per Run 3	0.5027 ppm	109.1022 %	108.1104 %	108.8017 %	108.0274 %	107.1879 %	108.7003 %
Recovery Percentage 1	100.442 %						
Concentration RSD	0.1 %	0.4 %	0.9 %	0.4 %	0.6 %	0.9 %	0.7 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 1:32:23 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0050 ppm	-0.0012 ppm	0.0006 ppm	0.0002 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 1	0.0003 ppm	0.0124 ppm	-0.0011 ppm	0.0015 ppm	0.0003 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 2	-0.0001 ppm	-0.0005 ppm	-0.0001 ppm	0.0023 ppm	0.0001 ppm	0.0001 ppm	-0.0045 ppm
Concentration per Run 3	-0.0003 ppm	0.0031 ppm	-0.0025 ppm	-0.0019 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm
Recovery Percentage 1	-0.721 %	5.002 %	-24.691 %	2.032 %	2.036 %	1.870 %	-0.315 %
Concentration RSD	597.2 %	133.1 %	96.0 %	366.5 %	55.2 %	44.3 %	1,245.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0017 ppm	0.0211 ppm	-0.0010 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0001 ppm	0.0018 ppm	-0.0109 ppm	-0.0010 ppm
Concentration per Run 2	-0.0002 ppm	0.0008 ppm	-0.0004 ppm	0.0001 ppm	0.0013 ppm	0.0169 ppm	-0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0021 ppm	0.0574 ppm	-0.0001 ppm
Recovery Percentage 1	0.010 %	3.353 %	0.387 %	0.722 %	3.482 %	0.845 %	-19.594 %
Concentration RSD	29,206.8 %	27.3 %	1,087.1 %	75.5 %	24.1 %	162.5 %	87.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0010 ppm	-0.0002 ppm	0.0007 ppm	-0.0134 ppm	-0.0005 ppm	0.0016 ppm	0.0036 ppm
Concentration per Run 1	0.0010 ppm	-0.0002 ppm	0.0004 ppm	-0.0141 ppm	-0.0002 ppm	0.0020 ppm	-0.0003 ppm
Concentration per Run 2	0.0024 ppm	-0.0001 ppm	0.0009 ppm	-0.0144 ppm	-0.0003 ppm	0.0020 ppm	0.0071 ppm
Concentration per Run 3	-0.0003 ppm	-0.0001 ppm	0.0007 ppm	-0.0119 ppm	-0.0009 ppm	0.0008 ppm	0.0040 ppm
Recovery Percentage 1	0.999 %	-1.558 %	1.354 %	-0.672 %	-1.860 %	15.939 %	7.186 %
Concentration RSD	134.8 %	46.7 %	32.0 %	10.2 %	75.0 %	43.7 %	103.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	-0.0019 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 1	-0.0004 ppm	-0.0001 ppm	-0.0011 ppm	0.0001 ppm	-0.0002 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 2	0.0044 ppm	-0.0041 ppm	-0.0006 ppm	0.0002 ppm	0.0003 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 3	0.0016 ppm	-0.0015 ppm	-0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0015 ppm	-0.0003 ppm
Recovery Percentage 1	18.785 %	-0.382 %	-1.720 %	0.690 %	0.307 %	0.794 %	-0.714 %
Concentration RSD	130.0 %	107.5 %	32.8 %	138.1 %	696.4 %	746.9 %	249.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	106.2587 %	102.0003 %	107.5556 %	107.6056 %	102.9229 %	108.3013 %
Concentration per Run 1	0.0003 ppm	106.9435 %	99.9932 %	107.3255 %	108.7727 %	101.5510 %	108.2351 %
Concentration per Run 2	-0.0003 ppm	106.3182 %	102.1070 %	107.7175 %	107.5164 %	102.8254 %	108.6581 %
Concentration per Run 3	0.0001 ppm	105.5143 %	103.9006 %	107.6237 %	106.5278 %	104.3923 %	108.0108 %
Recovery Percentage 1	1.083 %						
Concentration RSD	527.8 %	0.7 %	1.9 %	0.2 %	1.0 %	1.4 %	0.3 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-08d2 WG1975918
Analysis started at: 9/26/2024 1:39:13 PM
Rack 1
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	147.9812 ppm	-0.0026 ppm	0.0023 ppm	1.3316 ppm	0.0024 ppm	8.9264 ppm
Concentration per Run 1	0.0007 ppm	148.3920 ppm	-0.0038 ppm	0.0029 ppm	1.3387 ppm	0.0023 ppm	8.9814 ppm
Concentration per Run 2	0.0015 ppm	147.9287 ppm	-0.0032 ppm	0.0019 ppm	1.3288 ppm	0.0024 ppm	8.9163 ppm
Concentration per Run 3	0.0016 ppm	147.6230 ppm	-0.0007 ppm	0.0021 ppm	1.3275 ppm	0.0024 ppm	8.8814 ppm
Concentration RSD	39.7 %	0.3 %	63.9 %	24.1 %	0.5 %	1.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.1052 ppm	0.3212 ppm	0.2176 ppm	283.1105 ppm	110.0863 ppm	0.1685 ppm
Concentration per Run 1	0.0004 ppm	0.1037 ppm	0.3208 ppm	0.2152 ppm	283.3758 ppm	110.7203 ppm	0.1693 ppm
Concentration per Run 2	0.0007 ppm	0.1068 ppm	0.3223 ppm	0.2194 ppm	283.6282 ppm	110.5616 ppm	0.1699 ppm
Concentration per Run 3	0.0002 ppm	0.1050 ppm	0.3204 ppm	0.2181 ppm	282.3274 ppm	108.9772 ppm	0.1663 ppm
Concentration RSD	57.9 %	1.4 %	0.3 %	1.0 %	0.2 %	0.9 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	69.8220 ppm	4.5655 ppm	0.0011 ppm	2.1613 ppm	0.2681 ppm	0.0275 ppm	-0.0059 ppm
Concentration per Run 1	69.7925 ppm	4.5803 ppm	0.0006 ppm	2.1719 ppm	0.2689 ppm	0.0295 ppm	-0.0094 ppm
Concentration per Run 2	69.8646 ppm	4.5721 ppm	0.0017 ppm	2.1684 ppm	0.2690 ppm	0.0279 ppm	-0.0049 ppm
Concentration per Run 3	69.8089 ppm	4.5440 ppm	0.0008 ppm	2.1437 ppm	0.2665 ppm	0.0253 ppm	-0.0036 ppm
Concentration RSD	0.1 %	0.4 %	55.0 %	0.7 %	0.5 %	7.7 %	51.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0024 ppm	0.9678 ppm	0.0252 ppm	0.0917 ppm	20.5542 ppm	0.0112 ppm	0.4294 ppm
Concentration per Run 1	0.0004 ppm	0.9535 ppm	0.0249 ppm	0.0924 ppm	20.5282 ppm	0.0127 ppm	0.4284 ppm
Concentration per Run 2	0.0058 ppm	0.9908 ppm	0.0252 ppm	0.0916 ppm	20.6007 ppm	0.0099 ppm	0.4293 ppm
Concentration per Run 3	0.0010 ppm	0.9590 ppm	0.0253 ppm	0.0911 ppm	20.5336 ppm	0.0111 ppm	0.4304 ppm
Concentration RSD	125.3 %	2.1 %	0.8 %	0.8 %	0.2 %	12.6 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6027 ppm	117.0965 %	123.7137 %	119.9985 %	112.4686 %	119.0336 %	113.5652 %
Concentration per Run 1	0.6073 ppm	117.6812 %	123.6147 %	119.5794 %	112.6708 %	119.0857 %	112.8621 %
Concentration per Run 2	0.6031 ppm	117.0895 %	123.3587 %	120.3344 %	112.7359 %	118.6972 %	113.9336 %
Concentration per Run 3	0.5978 ppm	116.5189 %	124.1677 %	120.0819 %	111.9991 %	119.3180 %	113.8999 %
Concentration RSD	0.8 %	0.5 %	0.3 %	0.3 %	0.4 %	0.3 %	0.5 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-09d2 WG1975918
Analysis started at: 9/26/2024 1:43:23 PM
Rack 1
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0031 ppm	103.8774 ppm	0.0272 ppm	0.0361 ppm	1.4961 ppm	0.0040 ppm	125.2137 ppm
Concentration per Run 1	0.0033 ppm	103.7040 ppm	0.0260 ppm	0.0374 ppm	1.4951 ppm	0.0040 ppm	125.2208 ppm
Concentration per Run 2	0.0031 ppm	104.2453 ppm	0.0281 ppm	0.0340 ppm	1.5009 ppm	0.0041 ppm	125.7388 ppm
Concentration per Run 3	0.0029 ppm	103.6829 ppm	0.0273 ppm	0.0369 ppm	1.4924 ppm	0.0039 ppm	124.6813 ppm
Concentration RSD	6.8 %	0.3 %	3.9 %	5.1 %	0.3 %	2.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0628 ppm	0.0836 ppm	0.3593 ppm	0.9058 ppm	252.8430 ppm	46.7416 ppm	0.1225 ppm
Concentration per Run 1	0.0636 ppm	0.0837 ppm	0.3599 ppm	0.9088 ppm	252.8554 ppm	46.8221 ppm	0.1225 ppm
Concentration per Run 2	0.0625 ppm	0.0834 ppm	0.3596 ppm	0.9070 ppm	253.0484 ppm	46.7309 ppm	0.1208 ppm
Concentration per Run 3	0.0624 ppm	0.0837 ppm	0.3584 ppm	0.9017 ppm	252.6251 ppm	46.6717 ppm	0.1241 ppm
Concentration RSD	1.1 %	0.2 %	0.2 %	0.4 %	0.1 %	0.2 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	55.9743 ppm	5.6855 ppm	0.0113 ppm	1.2306 ppm	0.3176 ppm	1.1482 ppm	0.0110 ppm
Concentration per Run 1	56.2844 ppm	5.6816 ppm	0.0112 ppm	1.2308 ppm	0.3182 ppm	1.1515 ppm	0.0087 ppm
Concentration per Run 2	55.8551 ppm	5.7003 ppm	0.0106 ppm	1.2367 ppm	0.3173 ppm	1.1492 ppm	0.0130 ppm
Concentration per Run 3	55.7833 ppm	5.6745 ppm	0.0122 ppm	1.2242 ppm	0.3173 ppm	1.1440 ppm	0.0114 ppm
Concentration RSD	0.5 %	0.2 %	7.5 %	0.5 %	0.2 %	0.3 %	19.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0039 ppm	6.0470 ppm	0.0814 ppm	0.6693 ppm	11.3258 ppm	0.0092 ppm	0.3153 ppm
Concentration per Run 1	0.0057 ppm	6.1137 ppm	0.0810 ppm	0.6697 ppm	11.3915 ppm	0.0098 ppm	0.3170 ppm
Concentration per Run 2	0.0019 ppm	6.0141 ppm	0.0819 ppm	0.6710 ppm	11.3181 ppm	0.0084 ppm	0.3144 ppm
Concentration per Run 3	0.0041 ppm	6.0131 ppm	0.0814 ppm	0.6671 ppm	11.2679 ppm	0.0095 ppm	0.3144 ppm
Concentration RSD	48.3 %	1.0 %	0.5 %	0.3 %	0.5 %	7.9 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.9831 ppm	115.3927 %	119.6420 %	111.4186 %	122.4047 %	127.3035 %	122.0316 %
Concentration per Run 1	3.9990 ppm	115.6095 %	120.5256 %	110.5123 %	122.5720 %	127.9667 %	120.9458 %
Concentration per Run 2	3.9832 ppm	114.9749 %	118.8947 %	111.5827 %	121.8434 %	127.0012 %	122.4997 %
Concentration per Run 3	3.9671 ppm	115.5936 %	119.5057 %	112.1609 %	122.7987 %	126.9426 %	122.6493 %
Concentration RSD	0.4 %	0.3 %	0.7 %	0.8 %	0.4 %	0.5 %	0.8 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-10d2 WG1975918
Analysis started at: 9/26/2024 1:47:17 PM
Rack 1
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	165.2377 ppm	-0.0023 ppm	0.0027 ppm	2.4354 ppm	0.0041 ppm	21.5645 ppm
Concentration per Run 1	0.0006 ppm	164.9260 ppm	-0.0023 ppm	0.0036 ppm	2.4367 ppm	0.0040 ppm	21.5020 ppm
Concentration per Run 2	0.0003 ppm	164.8576 ppm	-0.0032 ppm	0.0033 ppm	2.4230 ppm	0.0040 ppm	21.4334 ppm
Concentration per Run 3	0.0008 ppm	165.9295 ppm	-0.0015 ppm	0.0014 ppm	2.4464 ppm	0.0042 ppm	21.7580 ppm
Concentration RSD	45.9 %	0.4 %	36.3 %	42.4 %	0.5 %	2.2 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.1276 ppm	0.7702 ppm	0.1249 ppm	321.5656 ppm	119.5802 ppm	0.1788 ppm
Concentration per Run 1	0.0005 ppm	0.1297 ppm	0.7679 ppm	0.1259 ppm	320.8973 ppm	119.0933 ppm	0.1794 ppm
Concentration per Run 2	0.0003 ppm	0.1246 ppm	0.7761 ppm	0.1248 ppm	320.3203 ppm	119.1627 ppm	0.1783 ppm
Concentration per Run 3	0.0001 ppm	0.1287 ppm	0.7667 ppm	0.1241 ppm	323.4793 ppm	120.4846 ppm	0.1786 ppm
Concentration RSD	62.5 %	2.1 %	0.7 %	0.7 %	0.5 %	0.7 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	94.2957 ppm	3.1394 ppm	-0.0018 ppm	1.0898 ppm	0.5625 ppm	0.1484 ppm	-0.0071 ppm
Concentration per Run 1	94.3459 ppm	3.1499 ppm	-0.0017 ppm	1.0864 ppm	0.5592 ppm	0.1477 ppm	-0.0088 ppm
Concentration per Run 2	94.4675 ppm	3.1159 ppm	-0.0024 ppm	1.0892 ppm	0.5660 ppm	0.1502 ppm	-0.0074 ppm
Concentration per Run 3	94.0737 ppm	3.1525 ppm	-0.0012 ppm	1.0938 ppm	0.5625 ppm	0.1472 ppm	-0.0050 ppm
Concentration RSD	0.2 %	0.7 %	32.9 %	0.3 %	0.6 %	1.1 %	27.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	0.8259 ppm	0.0233 ppm	0.1019 ppm	22.3159 ppm	0.0151 ppm	0.6006 ppm
Concentration per Run 1	-0.0031 ppm	0.8342 ppm	0.0241 ppm	0.1018 ppm	22.3090 ppm	0.0181 ppm	0.5996 ppm
Concentration per Run 2	0.0036 ppm	0.8075 ppm	0.0245 ppm	0.1015 ppm	22.4112 ppm	0.0120 ppm	0.5997 ppm
Concentration per Run 3	0.0021 ppm	0.8361 ppm	0.0212 ppm	0.1026 ppm	22.2275 ppm	0.0152 ppm	0.6024 ppm
Concentration RSD	405.3 %	1.9 %	7.7 %	0.6 %	0.4 %	20.1 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6711 ppm	126.0410 %	129.1603 %	125.8619 %	120.7814 %	124.2583 %	119.4745 %
Concentration per Run 1	0.6676 ppm	126.8438 %	130.1813 %	126.0221 %	121.4745 %	124.9173 %	119.3019 %
Concentration per Run 2	0.6741 ppm	124.7518 %	129.7177 %	125.7717 %	119.5691 %	124.3728 %	119.6967 %
Concentration per Run 3	0.6716 ppm	126.5273 %	127.5819 %	125.7921 %	121.3007 %	123.4849 %	119.4247 %
Concentration RSD	0.5 %	0.9 %	1.1 %	0.1 %	0.9 %	0.6 %	0.2 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454097-04 WG1976490
Analysis started at: 9/26/2024 1:51:12 PM
Rack 2
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0385 ppm	0.0012 ppm	0.0064 ppm	0.0681 ppm	0.0001 ppm	22.4973 ppm
Concentration per Run 1	0.0002 ppm	0.0233 ppm	0.0003 ppm	0.0063 ppm	0.0678 ppm	0.0001 ppm	22.5353 ppm
Concentration per Run 2	0.0004 ppm	0.0431 ppm	0.0016 ppm	0.0064 ppm	0.0682 ppm	0.0001 ppm	22.5209 ppm
Concentration per Run 3	-0.0003 ppm	0.0491 ppm	0.0017 ppm	0.0064 ppm	0.0684 ppm	0.0000 ppm	22.4359 ppm
Concentration RSD	345.8 %	35.1 %	66.2 %	1.1 %	0.4 %	40.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0006 ppm	0.0002 ppm	0.0020 ppm	0.0243 ppm	0.2703 ppm	0.0000 ppm
Concentration per Run 1	0.0011 ppm	0.0010 ppm	-0.0001 ppm	0.0023 ppm	0.0258 ppm	0.2655 ppm	0.0003 ppm
Concentration per Run 2	0.0011 ppm	0.0004 ppm	0.0005 ppm	0.0018 ppm	0.0246 ppm	0.2823 ppm	0.0000 ppm
Concentration per Run 3	0.0011 ppm	0.0005 ppm	0.0002 ppm	0.0018 ppm	0.0227 ppm	0.2631 ppm	-0.0002 ppm
Concentration RSD	1.9 %	43.4 %	144.9 %	15.5 %	6.3 %	3.9 %	33,763.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.6281 ppm	0.0470 ppm	-0.0004 ppm	123.5359 ppm	0.0008 ppm	0.0372 ppm	0.0061 ppm
Concentration per Run 1	0.6287 ppm	0.0468 ppm	0.0002 ppm	123.2884 ppm	0.0001 ppm	0.0370 ppm	0.0064 ppm
Concentration per Run 2	0.6284 ppm	0.0471 ppm	-0.0006 ppm	123.6470 ppm	0.0010 ppm	0.0380 ppm	0.0074 ppm
Concentration per Run 3	0.6272 ppm	0.0472 ppm	-0.0006 ppm	123.6723 ppm	0.0014 ppm	0.0366 ppm	0.0044 ppm
Concentration RSD	0.1 %	0.4 %	127.0 %	0.2 %	83.4 %	2.0 %	25.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0041 ppm	0.4827 ppm	-0.0018 ppm	0.1234 ppm	0.0043 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 1	0.0013 ppm	0.4796 ppm	-0.0020 ppm	0.1228 ppm	0.0043 ppm	0.0015 ppm	0.0003 ppm
Concentration per Run 2	0.0051 ppm	0.4846 ppm	-0.0015 ppm	0.1235 ppm	0.0039 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	0.0060 ppm	0.4840 ppm	-0.0020 ppm	0.1241 ppm	0.0047 ppm	-0.0010 ppm	0.0004 ppm
Concentration RSD	60.9 %	0.6 %	16.1 %	0.5 %	9.0 %	663.8 %	2.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.9942 ppm	111.6751 %	114.0644 %	105.5766 %	110.2259 %	113.2778 %	109.6861 %
Concentration per Run 1	1.9789 ppm	111.3044 %	113.3062 %	105.7853 %	110.2836 %	112.6342 %	109.7260 %
Concentration per Run 2	2.0059 ppm	111.3511 %	113.9272 %	105.8111 %	109.6223 %	112.9836 %	110.0166 %
Concentration per Run 3	1.9978 ppm	112.3697 %	114.9599 %	105.1334 %	110.7717 %	114.2156 %	109.3158 %
Concentration RSD	0.7 %	0.5 %	0.7 %	0.4 %	0.5 %	0.7 %	0.3 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2455077-01 WG1976490
Analysis started at: 9/26/2024 1:55:06 PM
Rack 2
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0547 ppm	0.0063 ppm	0.0345 ppm	0.0325 ppm	0.0001 ppm	1.0024 ppm
Concentration per Run 1	0.0001 ppm	0.0635 ppm	0.0051 ppm	0.0350 ppm	0.0326 ppm	0.0001 ppm	1.0027 ppm
Concentration per Run 2	0.0002 ppm	0.0421 ppm	0.0060 ppm	0.0338 ppm	0.0327 ppm	0.0001 ppm	1.0002 ppm
Concentration per Run 3	0.0004 ppm	0.0586 ppm	0.0080 ppm	0.0348 ppm	0.0323 ppm	0.0001 ppm	1.0043 ppm
Concentration RSD	57.9 %	20.4 %	23.6 %	1.8 %	0.7 %	33.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0006 ppm	0.0002 ppm	0.0005 ppm	0.0089 ppm	0.2168 ppm	-0.0001 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0005 ppm	0.0097 ppm	0.2305 ppm	-0.0007 ppm
Concentration per Run 2	0.0002 ppm	0.0004 ppm	0.0004 ppm	0.0005 ppm	0.0076 ppm	0.2031 ppm	0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0014 ppm	0.0001 ppm	0.0005 ppm	0.0094 ppm	0.2169 ppm	-0.0008 ppm
Concentration RSD	81.5 %	142.1 %	104.1 %	4.5 %	12.7 %	6.3 %	1,558.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1081 ppm	0.0189 ppm	-0.0002 ppm	125.2937 ppm	0.0000 ppm	1.2298 ppm	0.0352 ppm
Concentration per Run 1	0.1073 ppm	0.0189 ppm	-0.0002 ppm	124.9215 ppm	-0.0017 ppm	1.2299 ppm	0.0313 ppm
Concentration per Run 2	0.1113 ppm	0.0188 ppm	-0.0001 ppm	125.1512 ppm	0.0004 ppm	1.2329 ppm	0.0375 ppm
Concentration per Run 3	0.1057 ppm	0.0189 ppm	-0.0004 ppm	125.8083 ppm	0.0012 ppm	1.2267 ppm	0.0369 ppm
Concentration RSD	2.7 %	0.2 %	74.6 %	0.4 %	5,244.8 %	0.3 %	9.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0027 ppm	0.0987 ppm	-0.0013 ppm	0.0025 ppm	0.0010 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 1	0.0039 ppm	0.0944 ppm	-0.0011 ppm	0.0024 ppm	0.0008 ppm	-0.0005 ppm	0.0006 ppm
Concentration per Run 2	0.0034 ppm	0.1065 ppm	-0.0013 ppm	0.0026 ppm	0.0012 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0008 ppm	0.0951 ppm	-0.0016 ppm	0.0024 ppm	0.0010 ppm	-0.0007 ppm	0.0003 ppm
Concentration RSD	62.0 %	6.9 %	17.5 %	5.3 %	23.6 %	31.6 %	49.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0013 ppm	110.9183 %	111.3978 %	105.5547 %	109.8606 %	110.7422 %	109.5607 %
Concentration per Run 1	0.0015 ppm	110.8120 %	111.0089 %	105.9792 %	109.7063 %	110.1166 %	109.9622 %
Concentration per Run 2	0.0013 ppm	111.5482 %	111.3353 %	105.1443 %	110.4787 %	110.6409 %	109.4869 %
Concentration per Run 3	0.0012 ppm	110.3947 %	111.8492 %	105.5407 %	109.3968 %	111.4692 %	109.2329 %
Concentration RSD	10.3 %	0.5 %	0.4 %	0.4 %	0.5 %	0.6 %	0.3 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2455077-02 WG1976490
Analysis started at: 9/26/2024 1:59:00 PM
Rack 2
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0628 ppm	0.0006 ppm	0.0177 ppm	0.0298 ppm	0.0001 ppm	1.6306 ppm
Concentration per Run 1	0.0004 ppm	0.0612 ppm	0.0019 ppm	0.0179 ppm	0.0296 ppm	0.0001 ppm	1.6428 ppm
Concentration per Run 2	0.0000 ppm	0.0654 ppm	-0.0007 ppm	0.0167 ppm	0.0300 ppm	0.0001 ppm	1.6322 ppm
Concentration per Run 3	0.0002 ppm	0.0617 ppm	0.0006 ppm	0.0184 ppm	0.0299 ppm	0.0001 ppm	1.6169 ppm
Concentration RSD	100.0 %	3.7 %	210.5 %	5.0 %	0.6 %	21.2 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0124 ppm	0.1379 ppm	-0.0010 ppm
Concentration per Run 1	0.0003 ppm	0.0001 ppm	-0.0005 ppm	0.0006 ppm	0.0120 ppm	0.1504 ppm	-0.0004 ppm
Concentration per Run 2	-0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0008 ppm	0.0137 ppm	0.1281 ppm	-0.0003 ppm
Concentration per Run 3	-0.0001 ppm	-0.0005 ppm	0.0006 ppm	0.0005 ppm	0.0115 ppm	0.1352 ppm	-0.0023 ppm
Concentration RSD	901.8 %	29,204.5 %	744.9 %	21.0 %	9.1 %	8.3 %	116.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.3916 ppm	0.0097 ppm	-0.0001 ppm	123.3899 ppm	0.0003 ppm	0.1044 ppm	0.0023 ppm
Concentration per Run 1	0.3908 ppm	0.0098 ppm	0.0000 ppm	123.8318 ppm	0.0011 ppm	0.1034 ppm	0.0048 ppm
Concentration per Run 2	0.3931 ppm	0.0097 ppm	0.0003 ppm	123.4957 ppm	-0.0005 ppm	0.1037 ppm	0.0020 ppm
Concentration per Run 3	0.3908 ppm	0.0097 ppm	-0.0006 ppm	122.8424 ppm	0.0005 ppm	0.1061 ppm	0.0001 ppm
Concentration RSD	0.3 %	0.5 %	622.8 %	0.4 %	237.3 %	1.4 %	103.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0046 ppm	0.1014 ppm	-0.0015 ppm	0.0046 ppm	0.0006 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	0.0048 ppm	0.1111 ppm	-0.0016 ppm	0.0045 ppm	0.0005 ppm	-0.0012 ppm	0.0002 ppm
Concentration per Run 2	0.0024 ppm	0.0990 ppm	-0.0017 ppm	0.0046 ppm	0.0004 ppm	-0.0001 ppm	0.0006 ppm
Concentration per Run 3	0.0066 ppm	0.0943 ppm	-0.0011 ppm	0.0046 ppm	0.0010 ppm	0.0004 ppm	-0.0006 ppm
Concentration RSD	45.2 %	8.5 %	22.2 %	1.3 %	49.6 %	270.2 %	1,006.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0060 ppm	110.0434 %	111.5137 %	105.4519 %	109.0921 %	110.3500 %	109.5055 %
Concentration per Run 1	0.0061 ppm	109.8802 %	111.3604 %	105.3674 %	108.9200 %	110.5033 %	109.7443 %
Concentration per Run 2	0.0060 ppm	110.4700 %	111.6277 %	105.6980 %	109.6282 %	110.6161 %	109.8132 %
Concentration per Run 3	0.0060 ppm	109.7800 %	111.5529 %	105.2902 %	108.7280 %	109.9305 %	108.9591 %
Concentration RSD	0.8 %	0.3 %	0.1 %	0.2 %	0.4 %	0.3 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2455077-03 WG1976490
Analysis started at: 9/26/2024 2:02:54 PM
Rack 2
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0720 ppm	0.0010 ppm	0.0399 ppm	0.0260 ppm	0.0001 ppm	0.7426 ppm
Concentration per Run 1	0.0003 ppm	0.0645 ppm	-0.0007 ppm	0.0421 ppm	0.0261 ppm	0.0001 ppm	0.7431 ppm
Concentration per Run 2	0.0001 ppm	0.0689 ppm	0.0015 ppm	0.0386 ppm	0.0259 ppm	0.0001 ppm	0.7415 ppm
Concentration per Run 3	0.0009 ppm	0.0827 ppm	0.0023 ppm	0.0390 ppm	0.0260 ppm	0.0001 ppm	0.7434 ppm
Concentration RSD	96.3 %	13.2 %	147.8 %	4.8 %	0.3 %	26.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0007 ppm	0.0152 ppm	0.1200 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0010 ppm	0.0158 ppm	0.1158 ppm	-0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0010 ppm	0.0121 ppm	0.1325 ppm	-0.0004 ppm
Concentration per Run 3	-0.0001 ppm	0.0009 ppm	0.0004 ppm	0.0001 ppm	0.0177 ppm	0.1117 ppm	0.0004 ppm
Concentration RSD	1,181.5 %	86.9 %	252.3 %	73.6 %	18.6 %	9.2 %	227.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1537 ppm	0.0132 ppm	-0.0004 ppm	127.0791 ppm	0.0004 ppm	0.0409 ppm	0.0020 ppm
Concentration per Run 1	0.1560 ppm	0.0129 ppm	-0.0005 ppm	126.9054 ppm	-0.0002 ppm	0.0416 ppm	-0.0010 ppm
Concentration per Run 2	0.1516 ppm	0.0135 ppm	-0.0006 ppm	127.1905 ppm	0.0004 ppm	0.0397 ppm	0.0030 ppm
Concentration per Run 3	0.1534 ppm	0.0131 ppm	-0.0001 ppm	127.1414 ppm	0.0009 ppm	0.0414 ppm	0.0041 ppm
Concentration RSD	1.4 %	2.0 %	73.2 %	0.1 %	145.2 %	2.6 %	134.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0029 ppm	0.0998 ppm	-0.0014 ppm	0.0046 ppm	0.0009 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 1	0.0029 ppm	0.0975 ppm	-0.0016 ppm	0.0047 ppm	0.0006 ppm	0.0024 ppm	0.0000 ppm
Concentration per Run 2	0.0038 ppm	0.0997 ppm	-0.0014 ppm	0.0046 ppm	0.0010 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 3	0.0021 ppm	0.1021 ppm	-0.0013 ppm	0.0046 ppm	0.0010 ppm	-0.0013 ppm	0.0003 ppm
Concentration RSD	30.2 %	2.3 %	8.4 %	1.5 %	25.8 %	537.5 %	92.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0110 ppm	110.1754 %	110.4161 %	105.1937 %	109.0989 %	109.7461 %	109.2019 %
Concentration per Run 1	0.0108 ppm	110.1037 %	110.2679 %	104.9881 %	109.1508 %	109.1824 %	108.9689 %
Concentration per Run 2	0.0108 ppm	110.9204 %	109.9896 %	105.2251 %	109.7702 %	109.6908 %	109.3943 %
Concentration per Run 3	0.0113 ppm	109.5021 %	110.9909 %	105.3679 %	108.3757 %	110.3651 %	109.2423 %
Concentration RSD	3.0 %	0.6 %	0.5 %	0.2 %	0.6 %	0.5 %	0.2 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2455077-04 WG1976490
Analysis started at: 9/26/2024 2:06:49 PM
Rack 2
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0900 ppm	0.0070 ppm	0.0070 ppm	0.0267 ppm	0.0001 ppm	0.6425 ppm
Concentration per Run 1	0.0003 ppm	0.0867 ppm	0.0076 ppm	0.0059 ppm	0.0267 ppm	0.0001 ppm	0.6423 ppm
Concentration per Run 2	0.0004 ppm	0.0923 ppm	0.0053 ppm	0.0080 ppm	0.0265 ppm	0.0001 ppm	0.6451 ppm
Concentration per Run 3	0.0004 ppm	0.0909 ppm	0.0079 ppm	0.0072 ppm	0.0269 ppm	0.0001 ppm	0.6401 ppm
Concentration RSD	15.7 %	3.2 %	20.1 %	15.0 %	0.7 %	37.0 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0009 ppm	0.0079 ppm	0.1046 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0008 ppm	0.0065 ppm	0.0893 ppm	0.0008 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0003 ppm	0.0011 ppm	0.0096 ppm	0.1185 ppm	0.0007 ppm
Concentration per Run 3	0.0002 ppm	0.0012 ppm	0.0001 ppm	0.0007 ppm	0.0076 ppm	0.1060 ppm	-0.0008 ppm
Concentration RSD	45.6 %	175.0 %	32.4 %	23.8 %	20.3 %	14.0 %	394.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1045 ppm	0.0042 ppm	0.0000 ppm	124.3203 ppm	0.0002 ppm	1.0260 ppm	0.0202 ppm
Concentration per Run 1	0.1050 ppm	0.0041 ppm	-0.0001 ppm	123.5234 ppm	-0.0007 ppm	1.0218 ppm	0.0164 ppm
Concentration per Run 2	0.1049 ppm	0.0042 ppm	0.0001 ppm	124.6932 ppm	0.0001 ppm	1.0205 ppm	0.0204 ppm
Concentration per Run 3	0.1034 ppm	0.0044 ppm	-0.0001 ppm	124.7444 ppm	0.0011 ppm	1.0359 ppm	0.0239 ppm
Concentration RSD	0.8 %	2.5 %	770.6 %	0.6 %	511.7 %	0.8 %	18.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0051 ppm	0.0658 ppm	-0.0014 ppm	0.0021 ppm	0.0000 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 1	0.0026 ppm	0.0643 ppm	-0.0014 ppm	0.0022 ppm	0.0001 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 2	0.0044 ppm	0.0682 ppm	-0.0002 ppm	0.0021 ppm	0.0003 ppm	0.0023 ppm	0.0003 ppm
Concentration per Run 3	0.0082 ppm	0.0650 ppm	-0.0024 ppm	0.0020 ppm	-0.0004 ppm	-0.0003 ppm	0.0006 ppm
Concentration RSD	55.9 %	3.1 %	79.7 %	4.0 %	7,394.0 %	456.8 %	51.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0037 ppm	110.1497 %	110.0538 %	105.2272 %	109.2181 %	109.1901 %	109.2623 %
Concentration per Run 1	0.0037 ppm	111.2333 %	110.9055 %	104.5859 %	110.1751 %	109.6254 %	108.7367 %
Concentration per Run 2	0.0033 ppm	110.2415 %	109.5547 %	106.1599 %	109.6555 %	109.0081 %	109.9816 %
Concentration per Run 3	0.0039 ppm	108.9743 %	109.7014 %	104.9357 %	107.8235 %	108.9369 %	109.0684 %
Concentration RSD	8.0 %	1.0 %	0.7 %	0.8 %	1.1 %	0.3 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2455077-05 WG1976490
Analysis started at: 9/26/2024 2:10:43 PM
Rack 2
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0236 ppm	0.0007 ppm	0.0097 ppm	0.0245 ppm	0.0000 ppm	2.4295 ppm
Concentration per Run 1	0.0000 ppm	0.0326 ppm	0.0011 ppm	0.0096 ppm	0.0244 ppm	0.0000 ppm	2.4335 ppm
Concentration per Run 2	0.0005 ppm	0.0243 ppm	0.0010 ppm	0.0077 ppm	0.0244 ppm	0.0001 ppm	2.4256 ppm
Concentration per Run 3	0.0004 ppm	0.0139 ppm	0.0000 ppm	0.0119 ppm	0.0246 ppm	0.0001 ppm	2.4294 ppm
Concentration RSD	83.9 %	39.6 %	88.9 %	21.2 %	0.4 %	72.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0013 ppm	0.0003 ppm	0.0005 ppm	0.0074 ppm	0.6048 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0010 ppm	0.0000 ppm	0.0001 ppm	0.0075 ppm	0.6304 ppm	-0.0027 ppm
Concentration per Run 2	-0.0001 ppm	0.0012 ppm	0.0003 ppm	0.0004 ppm	0.0067 ppm	0.5815 ppm	0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0017 ppm	0.0005 ppm	0.0009 ppm	0.0081 ppm	0.6025 ppm	0.0000 ppm
Concentration RSD	19.5 %	28.8 %	100.7 %	88.9 %	9.4 %	4.1 %	230.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.2991 ppm	0.0035 ppm	0.0002 ppm	122.9818 ppm	-0.0001 ppm	0.0166 ppm	0.0016 ppm
Concentration per Run 1	0.2990 ppm	0.0035 ppm	-0.0001 ppm	122.5238 ppm	0.0000 ppm	0.0156 ppm	0.0001 ppm
Concentration per Run 2	0.2962 ppm	0.0034 ppm	-0.0004 ppm	122.6748 ppm	-0.0007 ppm	0.0186 ppm	0.0046 ppm
Concentration per Run 3	0.3022 ppm	0.0036 ppm	0.0010 ppm	123.7469 ppm	0.0003 ppm	0.0156 ppm	0.0000 ppm
Concentration RSD	1.0 %	2.1 %	404.2 %	0.5 %	360.8 %	10.5 %	167.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	0.0813 ppm	-0.0008 ppm	0.0045 ppm	0.0004 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 1	0.0007 ppm	0.0769 ppm	-0.0005 ppm	0.0046 ppm	0.0003 ppm	-0.0002 ppm	0.0006 ppm
Concentration per Run 2	0.0031 ppm	0.0824 ppm	-0.0021 ppm	0.0044 ppm	0.0001 ppm	0.0018 ppm	0.0000 ppm
Concentration per Run 3	0.0030 ppm	0.0845 ppm	0.0001 ppm	0.0045 ppm	0.0007 ppm	0.0003 ppm	0.0002 ppm
Concentration RSD	60.2 %	4.8 %	135.3 %	2.0 %	75.8 %	160.0 %	120.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0024 ppm	108.1658 %	110.4217 %	105.4824 %	107.1804 %	109.7143 %	109.1316 %
Concentration per Run 1	0.0025 ppm	106.9104 %	110.3297 %	105.3521 %	106.0979 %	109.6178 %	108.7543 %
Concentration per Run 2	0.0024 ppm	109.4388 %	110.3323 %	105.6892 %	108.3923 %	109.4965 %	109.1063 %
Concentration per Run 3	0.0023 ppm	108.1482 %	110.6031 %	105.4058 %	107.0509 %	110.0285 %	109.5340 %
Concentration RSD	4.5 %	1.2 %	0.1 %	0.2 %	1.1 %	0.3 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 2:14:39 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4953 ppm	0.4652 ppm	0.4694 ppm	0.4799 ppm	0.4814 ppm	0.4951 ppm	0.4785 ppm
Concentration per Run 1	0.4933 ppm	0.4731 ppm	0.4719 ppm	0.4785 ppm	0.4797 ppm	0.4932 ppm	0.4769 ppm
Concentration per Run 2	0.4943 ppm	0.4593 ppm	0.4690 ppm	0.4806 ppm	0.4838 ppm	0.4966 ppm	0.4806 ppm
Concentration per Run 3	0.4983 ppm	0.4632 ppm	0.4672 ppm	0.4806 ppm	0.4808 ppm	0.4954 ppm	0.4782 ppm
Recovery Percentage 1	99.056 %	93.044 %	93.874 %	95.976 %	96.283 %	99.014 %	95.710 %
Concentration RSD	0.5 %	1.5 %	0.5 %	0.2 %	0.4 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4934 ppm	0.4971 ppm	0.4785 ppm	0.4759 ppm	0.4858 ppm	5.0345 ppm	0.4727 ppm
Concentration per Run 1	0.4918 ppm	0.4956 ppm	0.4770 ppm	0.4768 ppm	0.4851 ppm	5.0472 ppm	0.4731 ppm
Concentration per Run 2	0.4920 ppm	0.4973 ppm	0.4788 ppm	0.4767 ppm	0.4831 ppm	5.0475 ppm	0.4742 ppm
Concentration per Run 3	0.4963 ppm	0.4983 ppm	0.4797 ppm	0.4743 ppm	0.4892 ppm	5.0087 ppm	0.4709 ppm
Recovery Percentage 1	98.676 %	99.413 %	95.699 %	95.190 %	97.159 %	100.689 %	94.547 %
Concentration RSD	0.5 %	0.3 %	0.3 %	0.3 %	0.6 %	0.4 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4750 ppm	0.4711 ppm	0.4718 ppm	9.6510 ppm	0.4920 ppm	0.4856 ppm	0.4864 ppm
Concentration per Run 1	0.4765 ppm	0.4719 ppm	0.4688 ppm	9.6273 ppm	0.4888 ppm	0.4874 ppm	0.4821 ppm
Concentration per Run 2	0.4738 ppm	0.4691 ppm	0.4731 ppm	9.6977 ppm	0.4951 ppm	0.4845 ppm	0.4837 ppm
Concentration per Run 3	0.4748 ppm	0.4723 ppm	0.4735 ppm	9.6280 ppm	0.4920 ppm	0.4850 ppm	0.4935 ppm
Recovery Percentage 1	95.008 %	94.225 %	94.363 %	96.510 %	98.396 %	97.122 %	97.288 %
Concentration RSD	0.3 %	0.4 %	0.6 %	0.4 %	0.6 %	0.3 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4873 ppm	5.2231 ppm	0.4631 ppm	0.4548 ppm	0.4841 ppm	0.4849 ppm	0.4762 ppm
Concentration per Run 1	0.4897 ppm	5.1832 ppm	0.4617 ppm	0.4529 ppm	0.4826 ppm	0.4875 ppm	0.4758 ppm
Concentration per Run 2	0.4833 ppm	5.2266 ppm	0.4639 ppm	0.4562 ppm	0.4838 ppm	0.4842 ppm	0.4764 ppm
Concentration per Run 3	0.4890 ppm	5.2596 ppm	0.4636 ppm	0.4552 ppm	0.4860 ppm	0.4832 ppm	0.4763 ppm
Recovery Percentage 1	97.465 %	99.488 %	92.615 %	90.954 %	96.824 %	96.989 %	95.237 %
Concentration RSD	0.7 %	0.7 %	0.3 %	0.4 %	0.4 %	0.5 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4954 ppm	111.9082 %	109.6683 %	110.2121 %	110.9296 %	109.2103 %	109.8745 %
Concentration per Run 1	0.4931 ppm	111.7170 %	110.4887 %	110.4163 %	110.6577 %	110.0504 %	110.3691 %
Concentration per Run 2	0.4986 ppm	111.8497 %	108.8819 %	110.6992 %	111.0988 %	108.5926 %	110.1551 %
Concentration per Run 3	0.4945 ppm	112.1578 %	109.6342 %	109.5208 %	111.0325 %	108.9878 %	109.0993 %
Recovery Percentage 1	99.075 %						
Concentration RSD	0.6 %	0.2 %	0.7 %	0.6 %	0.2 %	0.7 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 2:18:33 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0077 ppm	0.0012 ppm	0.0025 ppm	0.0000 ppm	0.0001 ppm	0.0023 ppm
Concentration per Run 1	0.0000 ppm	-0.0067 ppm	0.0006 ppm	0.0022 ppm	0.0001 ppm	0.0001 ppm	0.0061 ppm
Concentration per Run 2	0.0001 ppm	-0.0098 ppm	0.0007 ppm	0.0023 ppm	0.0000 ppm	0.0001 ppm	0.0039 ppm
Concentration per Run 3	0.0008 ppm	-0.0065 ppm	0.0023 ppm	0.0029 ppm	0.0000 ppm	0.0001 ppm	-0.0030 ppm
Recovery Percentage 1	4.234 %	-7.651 %	24.060 %	8.258 %	0.479 %	1.785 %	2.335 %
Concentration RSD	154.2 %	24.0 %	80.9 %	14.1 %	176.7 %	11.3 %	203.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0003 ppm	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0151 ppm	-0.0013 ppm
Concentration per Run 1	0.0000 ppm	0.0008 ppm	-0.0004 ppm	0.0000 ppm	0.0020 ppm	0.0338 ppm	-0.0011 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	-0.0001 ppm	-0.0003 ppm	-0.0012 ppm	0.0003 ppm	-0.0012 ppm
Concentration per Run 3	0.0002 ppm	-0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0113 ppm	-0.0017 ppm
Recovery Percentage 1	2.727 %	1.379 %	-0.754 %	-0.531 %	0.562 %	0.605 %	-26.626 %
Concentration RSD	71.2 %	199.9 %	392.1 %	387.4 %	573.2 %	112.8 %	22.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0009 ppm	0.0000 ppm	0.0008 ppm	-0.0038 ppm	0.0000 ppm	0.0005 ppm	0.0045 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0010 ppm	-0.0096 ppm	0.0000 ppm	0.0003 ppm	0.0035 ppm
Concentration per Run 2	0.0024 ppm	0.0001 ppm	0.0006 ppm	0.0007 ppm	0.0000 ppm	0.0002 ppm	0.0084 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0009 ppm	-0.0025 ppm	0.0000 ppm	0.0011 ppm	0.0017 ppm
Recovery Percentage 1	0.870 %	0.494 %	1.684 %	-0.191 %	-0.118 %	5.133 %	9.080 %
Concentration RSD	155.1 %	236.4 %	24.2 %	138.7 %	94.4 %	96.5 %	76.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0042 ppm	-0.0046 ppm	-0.0008 ppm	0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 1	0.0038 ppm	-0.0069 ppm	-0.0014 ppm	0.0000 ppm	-0.0003 ppm	-0.0012 ppm	0.0005 ppm
Concentration per Run 2	0.0054 ppm	-0.0042 ppm	0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0034 ppm	-0.0028 ppm	-0.0012 ppm	0.0000 ppm	-0.0003 ppm	0.0020 ppm	0.0006 ppm
Recovery Percentage 1	41.992 %	-0.920 %	-1.688 %	0.668 %	-3.219 %	1.967 %	4.674 %
Concentration RSD	24.8 %	45.4 %	97.5 %	156.1 %	7.7 %	411.9 %	36.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	109.9609 %	108.4709 %	110.7227 %	111.3165 %	108.8535 %	111.0895 %
Concentration per Run 1	0.0001 ppm	109.6746 %	107.2126 %	111.1677 %	110.9230 %	107.8875 %	111.7066 %
Concentration per Run 2	-0.0003 ppm	109.7092 %	109.1416 %	110.5751 %	110.9441 %	109.7550 %	110.8816 %
Concentration per Run 3	0.0001 ppm	110.4990 %	109.0587 %	110.4253 %	112.0824 %	108.9181 %	110.6804 %
Recovery Percentage 1	-0.311 %						
Concentration RSD	1,523.1 %	0.4 %	1.0 %	0.4 %	0.6 %	0.9 %	0.5 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1975918-1 WG1975918
Analysis started at: 9/26/2024 2:25:41 PM
Rack 1
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0258 ppm	0.0024 ppm	0.0039 ppm	0.0001 ppm	0.0001 ppm	0.0174 ppm
Concentration per Run 1	0.0002 ppm	0.0293 ppm	0.0018 ppm	0.0064 ppm	0.0001 ppm	0.0001 ppm	0.0171 ppm
Concentration per Run 2	0.0004 ppm	0.0183 ppm	0.0014 ppm	0.0016 ppm	0.0001 ppm	0.0001 ppm	0.0164 ppm
Concentration per Run 3	0.0009 ppm	0.0297 ppm	0.0038 ppm	0.0036 ppm	0.0002 ppm	0.0001 ppm	0.0186 ppm
Concentration RSD	74.8 %	25.1 %	53.6 %	62.7 %	71.5 %	33.0 %	6.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0005 ppm	0.0109 ppm	0.0173 ppm	-0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	0.0004 ppm	0.0007 ppm	0.0109 ppm	0.0092 ppm	-0.0010 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0007 ppm	0.0004 ppm	0.0117 ppm	0.0377 ppm	-0.0014 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0101 ppm	0.0051 ppm	-0.0005 ppm
Concentration RSD	69.9 %	121.3 %	69.1 %	37.5 %	7.2 %	102.7 %	49.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0047 ppm	0.0003 ppm	0.0006 ppm	0.0047 ppm	0.0000 ppm	0.0014 ppm	0.0049 ppm
Concentration per Run 1	0.0028 ppm	0.0005 ppm	0.0001 ppm	-0.0025 ppm	0.0003 ppm	0.0013 ppm	0.0064 ppm
Concentration per Run 2	0.0057 ppm	0.0002 ppm	0.0009 ppm	0.0065 ppm	-0.0001 ppm	0.0018 ppm	0.0047 ppm
Concentration per Run 3	0.0056 ppm	0.0003 ppm	0.0008 ppm	0.0100 ppm	-0.0002 ppm	0.0010 ppm	0.0036 ppm
Concentration RSD	34.5 %	57.8 %	67.6 %	138.5 %	6,146.6 %	27.2 %	28.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0034 ppm	0.0028 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	0.0048 ppm	0.0050 ppm	-0.0006 ppm	0.0000 ppm	0.0004 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 2	0.0036 ppm	0.0014 ppm	-0.0014 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 3	0.0018 ppm	0.0019 ppm	-0.0005 ppm	0.0003 ppm	0.0000 ppm	-0.0005 ppm	0.0002 ppm
Concentration RSD	44.3 %	70.2 %	56.9 %	100.4 %	783.3 %	39.2 %	101.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0021 ppm	108.2800 %	109.8058 %	107.7591 %	107.1283 %	109.4945 %	106.4465 %
Concentration per Run 1	0.0021 ppm	109.1000 %	109.8028 %	107.8925 %	107.4175 %	109.3340 %	106.5445 %
Concentration per Run 2	0.0021 ppm	108.0987 %	110.1566 %	107.7299 %	107.0234 %	110.0218 %	106.1751 %
Concentration per Run 3	0.0021 ppm	107.6413 %	109.4580 %	107.6549 %	106.9440 %	109.1277 %	106.6198 %
Concentration RSD	1.7 %	0.7 %	0.3 %	0.1 %	0.2 %	0.4 %	0.2 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1975918-2d2 WG1975918
Analysis started at: 9/26/2024 2:29:49 PM
Rack 1
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0498 ppm	1.8785 ppm	0.1174 ppm	0.9669 ppm	1.9176 ppm	0.0494 ppm	9.6653 ppm
Concentration per Run 1	0.0502 ppm	1.9013 ppm	0.1200 ppm	0.9648 ppm	1.9244 ppm	0.0495 ppm	9.7123 ppm
Concentration per Run 2	0.0497 ppm	1.8696 ppm	0.1174 ppm	0.9729 ppm	1.9200 ppm	0.0493 ppm	9.6679 ppm
Concentration per Run 3	0.0496 ppm	1.8647 ppm	0.1149 ppm	0.9630 ppm	1.9085 ppm	0.0494 ppm	9.6158 ppm
Concentration RSD	0.6 %	1.1 %	2.1 %	0.5 %	0.4 %	0.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0521 ppm	0.5007 ppm	0.1971 ppm	0.2486 ppm	1.0366 ppm	9.9703 ppm	-0.0009 ppm
Concentration per Run 1	0.0520 ppm	0.5029 ppm	0.1976 ppm	0.2493 ppm	1.0331 ppm	9.9754 ppm	-0.0008 ppm
Concentration per Run 2	0.0524 ppm	0.5036 ppm	0.1975 ppm	0.2498 ppm	1.0380 ppm	9.9555 ppm	-0.0011 ppm
Concentration per Run 3	0.0518 ppm	0.4955 ppm	0.1962 ppm	0.2466 ppm	1.0387 ppm	9.9802 ppm	-0.0008 ppm
Concentration RSD	0.6 %	0.9 %	0.4 %	0.7 %	0.3 %	0.1 %	22.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.9567 ppm	0.4825 ppm	0.9995 ppm	9.7813 ppm	0.4952 ppm	0.5306 ppm	0.5006 ppm
Concentration per Run 1	9.8966 ppm	0.4842 ppm	0.9959 ppm	9.7727 ppm	0.4949 ppm	0.5339 ppm	0.5037 ppm
Concentration per Run 2	9.9935 ppm	0.4842 ppm	1.0052 ppm	9.8092 ppm	0.4975 ppm	0.5276 ppm	0.5048 ppm
Concentration per Run 3	9.9800 ppm	0.4791 ppm	0.9974 ppm	9.7620 ppm	0.4931 ppm	0.5305 ppm	0.4932 ppm
Concentration RSD	0.5 %	0.6 %	0.5 %	0.3 %	0.4 %	0.6 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1209 ppm	0.7328 ppm	0.9638 ppm	0.9247 ppm	1.0063 ppm	0.1196 ppm	0.4988 ppm
Concentration per Run 1	0.1197 ppm	0.7342 ppm	0.9653 ppm	0.9276 ppm	1.0038 ppm	0.1210 ppm	0.4995 ppm
Concentration per Run 2	0.1216 ppm	0.7373 ppm	0.9680 ppm	0.9250 ppm	1.0083 ppm	0.1193 ppm	0.5005 ppm
Concentration per Run 3	0.1213 ppm	0.7270 ppm	0.9582 ppm	0.9215 ppm	1.0068 ppm	0.1184 ppm	0.4965 ppm
Concentration RSD	0.8 %	0.7 %	0.5 %	0.3 %	0.2 %	1.1 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4984 ppm	110.8709 %	111.2893 %	109.6771 %	110.2831 %	109.7671 %	110.0474 %
Concentration per Run 1	0.4998 ppm	110.7518 %	111.5258 %	109.0124 %	110.1303 %	110.3273 %	109.5250 %
Concentration per Run 2	0.5001 ppm	110.2173 %	110.8652 %	110.2350 %	109.7439 %	109.3541 %	110.5678 %
Concentration per Run 3	0.4952 ppm	111.6437 %	111.4767 %	109.7839 %	110.9752 %	109.6199 %	110.0493 %
Concentration RSD	0.5 %	0.6 %	0.3 %	0.6 %	0.6 %	0.5 %	0.5 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2452494-11d2 WG1975366
Analysis started at: 9/26/2024 2:33:42 PM
Rack 1
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	80.1217 ppm	0.0412 ppm	0.0614 ppm	0.7066 ppm	0.0089 ppm	32.3878 ppm
Concentration per Run 1	0.0006 ppm	80.3128 ppm	0.0399 ppm	0.0608 ppm	0.7078 ppm	0.0088 ppm	32.5311 ppm
Concentration per Run 2	0.0006 ppm	80.1281 ppm	0.0425 ppm	0.0608 ppm	0.7076 ppm	0.0089 ppm	32.3333 ppm
Concentration per Run 3	0.0004 ppm	79.9241 ppm	0.0413 ppm	0.0626 ppm	0.7045 ppm	0.0090 ppm	32.2990 ppm
Concentration RSD	16.8 %	0.2 %	3.2 %	1.8 %	0.3 %	0.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.1466 ppm	0.3826 ppm	0.2663 ppm	316.2781 ppm	4.7477 ppm	0.1953 ppm
Concentration per Run 1	0.0005 ppm	0.1454 ppm	0.3793 ppm	0.2650 ppm	315.2166 ppm	4.7245 ppm	0.1958 ppm
Concentration per Run 2	0.0006 ppm	0.1472 ppm	0.3846 ppm	0.2670 ppm	316.4753 ppm	4.7779 ppm	0.1953 ppm
Concentration per Run 3	0.0008 ppm	0.1473 ppm	0.3840 ppm	0.2669 ppm	317.1423 ppm	4.7407 ppm	0.1949 ppm
Concentration RSD	22.9 %	0.7 %	0.8 %	0.4 %	0.3 %	0.6 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	41.7046 ppm	8.1783 ppm	0.0034 ppm	2.6704 ppm	0.2652 ppm	0.2686 ppm	0.0091 ppm
Concentration per Run 1	41.4459 ppm	8.2116 ppm	0.0032 ppm	2.6661 ppm	0.2629 ppm	0.2686 ppm	0.0073 ppm
Concentration per Run 2	41.8215 ppm	8.1633 ppm	0.0033 ppm	2.6629 ppm	0.2655 ppm	0.2679 ppm	0.0068 ppm
Concentration per Run 3	41.8465 ppm	8.1599 ppm	0.0037 ppm	2.6822 ppm	0.2671 ppm	0.2694 ppm	0.0131 ppm
Concentration RSD	0.5 %	0.4 %	7.5 %	0.4 %	0.8 %	0.3 %	38.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	1.0103 ppm	0.0080 ppm	0.2862 ppm	3.9287 ppm	0.0050 ppm	0.2992 ppm
Concentration per Run 1	0.0007 ppm	1.0084 ppm	0.0088 ppm	0.2865 ppm	3.8931 ppm	0.0045 ppm	0.2991 ppm
Concentration per Run 2	0.0018 ppm	1.0102 ppm	0.0081 ppm	0.2859 ppm	3.9453 ppm	0.0047 ppm	0.2999 ppm
Concentration per Run 3	0.0015 ppm	1.0124 ppm	0.0073 ppm	0.2862 ppm	3.9476 ppm	0.0057 ppm	0.2985 ppm
Concentration RSD	43.9 %	0.2 %	9.3 %	0.1 %	0.8 %	12.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4530 ppm	115.0992 %	116.0498 %	108.2399 %	154.6096 %	156.0573 %	154.2598 %
Concentration per Run 1	0.4472 ppm	115.5586 %	117.0139 %	108.8245 %	154.7563 %	157.9592 %	155.0979 %
Concentration per Run 2	0.4560 ppm	115.1563 %	115.4202 %	108.1582 %	154.9046 %	155.1901 %	154.2263 %
Concentration per Run 3	0.4557 ppm	114.5826 %	115.7153 %	107.7370 %	154.1678 %	155.0227 %	153.4553 %
Concentration RSD	1.1 %	0.4 %	0.7 %	0.5 %	0.3 %	1.1 %	0.5 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453692-03d2 WG1975366
Analysis started at: 9/26/2024 2:37:37 PM
Rack 1
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0019 ppm	73.2747 ppm	0.0344 ppm	0.6857 ppm	0.8653 ppm	0.0035 ppm	124.9876 ppm
Concentration per Run 1	0.0028 ppm	72.8863 ppm	0.0339 ppm	0.6861 ppm	0.8609 ppm	0.0036 ppm	124.3913 ppm
Concentration per Run 2	0.0017 ppm	73.7709 ppm	0.0334 ppm	0.6890 ppm	0.8687 ppm	0.0036 ppm	125.7660 ppm
Concentration per Run 3	0.0013 ppm	73.1669 ppm	0.0359 ppm	0.6820 ppm	0.8662 ppm	0.0035 ppm	124.8055 ppm
Concentration RSD	42.4 %	0.6 %	3.8 %	0.5 %	0.5 %	2.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0030 ppm	0.0926 ppm	0.1435 ppm	0.6307 ppm	186.7682 ppm	12.0443 ppm	0.1076 ppm
Concentration per Run 1	0.0029 ppm	0.0932 ppm	0.1434 ppm	0.6305 ppm	186.2380 ppm	12.0236 ppm	0.1082 ppm
Concentration per Run 2	0.0030 ppm	0.0934 ppm	0.1435 ppm	0.6306 ppm	187.5443 ppm	12.0490 ppm	0.1082 ppm
Concentration per Run 3	0.0030 ppm	0.0913 ppm	0.1435 ppm	0.6309 ppm	186.5224 ppm	12.0603 ppm	0.1063 ppm
Concentration RSD	2.5 %	1.2 %	0.1 %	0.0 %	0.4 %	0.2 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	54.1177 ppm	2.4131 ppm	0.0046 ppm	4.5669 ppm	0.2270 ppm	1.1732 ppm	0.0067 ppm
Concentration per Run 1	54.2099 ppm	2.4090 ppm	0.0051 ppm	4.5522 ppm	0.2265 ppm	1.1716 ppm	0.0049 ppm
Concentration per Run 2	53.9132 ppm	2.4203 ppm	0.0040 ppm	4.6022 ppm	0.2278 ppm	1.1760 ppm	0.0075 ppm
Concentration per Run 3	54.2299 ppm	2.4102 ppm	0.0048 ppm	4.5463 ppm	0.2268 ppm	1.1719 ppm	0.0076 ppm
Concentration RSD	0.3 %	0.3 %	12.1 %	0.7 %	0.3 %	0.2 %	23.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0034 ppm	1.2768 ppm	0.0314 ppm	0.5263 ppm	5.1310 ppm	0.0054 ppm	0.5376 ppm
Concentration per Run 1	-0.0004 ppm	1.2974 ppm	0.0321 ppm	0.5241 ppm	5.1372 ppm	0.0061 ppm	0.5374 ppm
Concentration per Run 2	0.0086 ppm	1.2715 ppm	0.0310 ppm	0.5285 ppm	5.0958 ppm	0.0048 ppm	0.5368 ppm
Concentration per Run 3	0.0019 ppm	1.2613 ppm	0.0310 ppm	0.5265 ppm	5.1599 ppm	0.0055 ppm	0.5385 ppm
Concentration RSD	138.2 %	1.5 %	2.0 %	0.4 %	0.6 %	12.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0416 ppm	112.7871 %	114.2975 %	106.5928 %	142.0921 %	144.1923 %	140.1146 %
Concentration per Run 1	1.0424 ppm	112.6594 %	114.6209 %	105.7815 %	142.2411 %	144.0209 %	139.0177 %
Concentration per Run 2	1.0409 ppm	112.5593 %	113.2465 %	106.4470 %	141.6883 %	143.6066 %	139.8760 %
Concentration per Run 3	1.0413 ppm	113.1425 %	115.0252 %	107.5500 %	142.3470 %	144.9495 %	141.4502 %
Concentration RSD	0.1 %	0.3 %	0.8 %	0.8 %	0.2 %	0.5 %	0.9 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453692-09d2 WG1975366
Analysis started at: 9/26/2024 2:41:30 PM
Rack 1
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0024 ppm	87.0772 ppm	0.0382 ppm	1.1853 ppm	1.0503 ppm	0.0045 ppm	159.5530 ppm
Concentration per Run 1	0.0029 ppm	86.7036 ppm	0.0350 ppm	1.1838 ppm	1.0436 ppm	0.0045 ppm	158.7827 ppm
Concentration per Run 2	0.0026 ppm	87.2195 ppm	0.0390 ppm	1.1892 ppm	1.0518 ppm	0.0045 ppm	159.7523 ppm
Concentration per Run 3	0.0018 ppm	87.3085 ppm	0.0406 ppm	1.1830 ppm	1.0556 ppm	0.0046 ppm	160.1240 ppm
Concentration RSD	23.1 %	0.4 %	7.6 %	0.3 %	0.6 %	0.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0038 ppm	0.1020 ppm	0.1515 ppm	0.6782 ppm	196.2671 ppm	13.3942 ppm	0.1172 ppm
Concentration per Run 1	0.0035 ppm	0.1034 ppm	0.1521 ppm	0.6809 ppm	195.6377 ppm	13.3380 ppm	0.1178 ppm
Concentration per Run 2	0.0039 ppm	0.1009 ppm	0.1522 ppm	0.6777 ppm	196.4435 ppm	13.4113 ppm	0.1164 ppm
Concentration per Run 3	0.0040 ppm	0.1018 ppm	0.1503 ppm	0.6762 ppm	196.7201 ppm	13.4333 ppm	0.1173 ppm
Concentration RSD	6.6 %	1.2 %	0.7 %	0.4 %	0.3 %	0.4 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	60.3552 ppm	3.3174 ppm	0.0023 ppm	5.4802 ppm	0.2380 ppm	1.6135 ppm	0.0163 ppm
Concentration per Run 1	60.4349 ppm	3.2929 ppm	0.0026 ppm	5.4619 ppm	0.2386 ppm	1.6160 ppm	0.0159 ppm
Concentration per Run 2	60.3987 ppm	3.3224 ppm	0.0017 ppm	5.4941 ppm	0.2380 ppm	1.6091 ppm	0.0184 ppm
Concentration per Run 3	60.2321 ppm	3.3370 ppm	0.0026 ppm	5.4845 ppm	0.2374 ppm	1.6153 ppm	0.0145 ppm
Concentration RSD	0.2 %	0.7 %	22.5 %	0.3 %	0.2 %	0.2 %	12.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0038 ppm	2.1922 ppm	0.0435 ppm	0.5446 ppm	5.4266 ppm	0.0050 ppm	0.4896 ppm
Concentration per Run 1	0.0041 ppm	2.2090 ppm	0.0439 ppm	0.5404 ppm	5.4425 ppm	0.0070 ppm	0.4900 ppm
Concentration per Run 2	0.0031 ppm	2.1883 ppm	0.0432 ppm	0.5452 ppm	5.4250 ppm	0.0046 ppm	0.4894 ppm
Concentration per Run 3	0.0042 ppm	2.1793 ppm	0.0433 ppm	0.5483 ppm	5.4122 ppm	0.0033 ppm	0.4893 ppm
Concentration RSD	16.4 %	0.7 %	0.9 %	0.7 %	0.3 %	37.8 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.4237 ppm	112.1127 %	114.8256 %	105.5914 %	140.9359 %	144.5131 %	139.3051 %
Concentration per Run 1	1.4188 ppm	112.4895 %	114.8635 %	105.0440 %	141.8287 %	144.4719 %	138.5342 %
Concentration per Run 2	1.4299 ppm	111.7542 %	115.2756 %	105.6850 %	140.2370 %	145.0289 %	139.1677 %
Concentration per Run 3	1.4224 ppm	112.0944 %	114.3378 %	106.0452 %	140.7420 %	144.0386 %	140.2134 %
Concentration RSD	0.4 %	0.3 %	0.4 %	0.5 %	0.6 %	0.3 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453863-13d2 WG1975918
Analysis started at: 9/26/2024 2:45:23 PM
Rack 1
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0023 ppm	154.8988 ppm	0.0651 ppm	0.0174 ppm	2.4988 ppm	0.0103 ppm	182.8829 ppm
Concentration per Run 1	0.0023 ppm	154.2034 ppm	0.0643 ppm	0.0188 ppm	2.4884 ppm	0.0104 ppm	182.5528 ppm
Concentration per Run 2	0.0023 ppm	155.9948 ppm	0.0635 ppm	0.0165 ppm	2.5115 ppm	0.0103 ppm	183.7438 ppm
Concentration per Run 3	0.0025 ppm	154.4981 ppm	0.0676 ppm	0.0169 ppm	2.4966 ppm	0.0103 ppm	182.3521 ppm
Concentration RSD	4.3 %	0.6 %	3.3 %	7.0 %	0.5 %	0.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.3669 ppm	0.2136 ppm	0.3938 ppm	370.3866 ppm	9.8275 ppm	0.3200 ppm
Concentration per Run 1	0.0004 ppm	0.3666 ppm	0.2131 ppm	0.3961 ppm	369.3790 ppm	9.8039 ppm	0.3176 ppm
Concentration per Run 2	-0.0004 ppm	0.3652 ppm	0.2149 ppm	0.3916 ppm	371.2686 ppm	9.8460 ppm	0.3216 ppm
Concentration per Run 3	-0.0001 ppm	0.3688 ppm	0.2127 ppm	0.3936 ppm	370.5122 ppm	9.8326 ppm	0.3207 ppm
Concentration RSD	1,573.3 %	0.5 %	0.5 %	0.6 %	0.3 %	0.2 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	160.0701 ppm	13.0617 ppm	0.0015 ppm	1.6350 ppm	0.4573 ppm	0.1533 ppm	0.0037 ppm
Concentration per Run 1	160.2557 ppm	13.0668 ppm	0.0015 ppm	1.6223 ppm	0.4574 ppm	0.1551 ppm	0.0071 ppm
Concentration per Run 2	160.0662 ppm	13.1106 ppm	0.0020 ppm	1.6530 ppm	0.4607 ppm	0.1528 ppm	0.0003 ppm
Concentration per Run 3	159.8885 ppm	13.0077 ppm	0.0012 ppm	1.6296 ppm	0.4539 ppm	0.1519 ppm	0.0038 ppm
Concentration RSD	0.1 %	0.4 %	27.0 %	1.0 %	0.7 %	1.1 %	92.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0101 ppm	1.6965 ppm	0.0039 ppm	0.2956 ppm	0.8596 ppm	0.0058 ppm	0.2476 ppm
Concentration per Run 1	0.0088 ppm	1.7039 ppm	0.0034 ppm	0.2948 ppm	0.8613 ppm	0.0073 ppm	0.2486 ppm
Concentration per Run 2	0.0104 ppm	1.6827 ppm	0.0032 ppm	0.2963 ppm	0.8635 ppm	0.0040 ppm	0.2473 ppm
Concentration per Run 3	0.0111 ppm	1.7030 ppm	0.0052 ppm	0.2956 ppm	0.8540 ppm	0.0060 ppm	0.2468 ppm
Concentration RSD	11.6 %	0.7 %	27.1 %	0.3 %	0.6 %	28.8 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6729 ppm	117.1865 %	120.3538 %	101.9909 %	146.9528 %	150.5753 %	144.1375 %
Concentration per Run 1	0.6710 ppm	117.7043 %	121.1919 %	102.8329 %	148.3269 %	151.5380 %	145.2672 %
Concentration per Run 2	0.6754 ppm	116.8778 %	119.4534 %	101.4714 %	146.0121 %	150.0144 %	143.6718 %
Concentration per Run 3	0.6724 ppm	116.9775 %	120.4159 %	101.6684 %	146.5195 %	150.1736 %	143.4734 %
Concentration RSD	0.3 %	0.4 %	0.7 %	0.7 %	0.8 %	0.6 %	0.7 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1975918-3d2 WG1975918
Analysis started at: 9/26/2024 2:49:17 PM
Rack 1
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0467 ppm	191.1493 ppm	0.1634 ppm	0.7588 ppm	4.5482 ppm	0.0549 ppm	88.3774 ppm
Concentration per Run 1	0.0474 ppm	190.9139 ppm	0.1641 ppm	0.7591 ppm	4.5439 ppm	0.0548 ppm	88.2483 ppm
Concentration per Run 2	0.0468 ppm	191.8573 ppm	0.1623 ppm	0.7614 ppm	4.5701 ppm	0.0550 ppm	88.6327 ppm
Concentration per Run 3	0.0458 ppm	190.6767 ppm	0.1639 ppm	0.7560 ppm	4.5307 ppm	0.0550 ppm	88.2511 ppm
Concentration RSD	1.7 %	0.3 %	0.6 %	0.4 %	0.4 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0422 ppm	0.7249 ppm	0.4208 ppm	0.6562 ppm	404.6045 ppm	21.3000 ppm	0.3671 ppm
Concentration per Run 1	0.0425 ppm	0.7303 ppm	0.4208 ppm	0.6585 ppm	405.6551 ppm	21.2439 ppm	0.3663 ppm
Concentration per Run 2	0.0424 ppm	0.7231 ppm	0.4221 ppm	0.6563 ppm	404.9599 ppm	21.3918 ppm	0.3676 ppm
Concentration per Run 3	0.0416 ppm	0.7215 ppm	0.4194 ppm	0.6540 ppm	403.1984 ppm	21.2643 ppm	0.3674 ppm
Concentration RSD	1.2 %	0.6 %	0.3 %	0.3 %	0.3 %	0.4 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	120.1165 ppm	11.3809 ppm	0.8342 ppm	10.4625 ppm	0.9086 ppm	0.6027 ppm	0.4135 ppm
Concentration per Run 1	119.9595 ppm	11.3597 ppm	0.8353 ppm	10.4530 ppm	0.9075 ppm	0.6043 ppm	0.4180 ppm
Concentration per Run 2	120.1555 ppm	11.3848 ppm	0.8327 ppm	10.4665 ppm	0.9110 ppm	0.6055 ppm	0.4147 ppm
Concentration per Run 3	120.2345 ppm	11.3984 ppm	0.8347 ppm	10.4680 ppm	0.9072 ppm	0.5983 ppm	0.4079 ppm
Concentration RSD	0.1 %	0.2 %	0.2 %	0.1 %	0.2 %	0.6 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1124 ppm	2.7842 ppm	0.7916 ppm	0.9812 ppm	1.8209 ppm	0.1075 ppm	0.7137 ppm
Concentration per Run 1	0.1108 ppm	2.7812 ppm	0.7919 ppm	0.9796 ppm	1.8157 ppm	0.1093 ppm	0.7153 ppm
Concentration per Run 2	0.1119 ppm	2.8000 ppm	0.7928 ppm	0.9850 ppm	1.8203 ppm	0.1063 ppm	0.7124 ppm
Concentration per Run 3	0.1144 ppm	2.7714 ppm	0.7901 ppm	0.9788 ppm	1.8267 ppm	0.1070 ppm	0.7134 ppm
Concentration RSD	1.6 %	0.5 %	0.2 %	0.3 %	0.3 %	1.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2027 ppm	118.8307 %	124.0664 %	105.2826 %	147.8556 %	153.7303 %	146.9397 %
Concentration per Run 1	1.2020 ppm	118.9652 %	124.4050 %	105.5660 %	148.1257 %	153.9079 %	147.5020 %
Concentration per Run 2	1.2035 ppm	118.7051 %	124.4297 %	104.7851 %	147.0957 %	154.3109 %	145.7923 %
Concentration per Run 3	1.2027 ppm	118.8218 %	123.3647 %	105.4966 %	148.3454 %	152.9721 %	147.5249 %
Concentration RSD	0.1 %	0.1 %	0.5 %	0.4 %	0.5 %	0.4 %	0.7 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1975918-4d2 WG1975918
Analysis started at: 9/26/2024 2:53:11 PM
Rack 1
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0016 ppm	163.0930 ppm	0.0558 ppm	0.0150 ppm	2.5650 ppm	0.0107 ppm	112.0502 ppm
Concentration per Run 1	0.0014 ppm	162.6896 ppm	0.0531 ppm	0.0151 ppm	2.5622 ppm	0.0106 ppm	112.1807 ppm
Concentration per Run 2	0.0019 ppm	163.5504 ppm	0.0582 ppm	0.0149 ppm	2.5560 ppm	0.0107 ppm	112.0448 ppm
Concentration per Run 3	0.0016 ppm	163.0392 ppm	0.0560 ppm	0.0151 ppm	2.5766 ppm	0.0107 ppm	111.9252 ppm
Concentration RSD	15.5 %	0.3 %	4.6 %	0.8 %	0.4 %	0.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.3139 ppm	0.2305 ppm	0.4242 ppm	369.2311 ppm	10.3878 ppm	0.3316 ppm
Concentration per Run 1	0.0002 ppm	0.3142 ppm	0.2312 ppm	0.4237 ppm	370.2729 ppm	10.3401 ppm	0.3339 ppm
Concentration per Run 2	-0.0001 ppm	0.3139 ppm	0.2311 ppm	0.4265 ppm	367.9947 ppm	10.4050 ppm	0.3280 ppm
Concentration per Run 3	-0.0001 ppm	0.3135 ppm	0.2294 ppm	0.4224 ppm	369.4259 ppm	10.4181 ppm	0.3329 ppm
Concentration RSD	1,147.0 %	0.1 %	0.4 %	0.5 %	0.3 %	0.4 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	123.1784 ppm	11.3711 ppm	0.0020 ppm	1.6746 ppm	0.4648 ppm	0.1324 ppm	0.0045 ppm
Concentration per Run 1	123.2394 ppm	11.3838 ppm	0.0023 ppm	1.6754 ppm	0.4663 ppm	0.1303 ppm	0.0048 ppm
Concentration per Run 2	123.0523 ppm	11.3742 ppm	0.0020 ppm	1.6772 ppm	0.4627 ppm	0.1337 ppm	0.0042 ppm
Concentration per Run 3	123.2434 ppm	11.3552 ppm	0.0017 ppm	1.6711 ppm	0.4654 ppm	0.1331 ppm	0.0045 ppm
Concentration RSD	0.1 %	0.1 %	14.3 %	0.2 %	0.4 %	1.4 %	6.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0074 ppm	1.7699 ppm	0.0047 ppm	0.2160 ppm	0.8990 ppm	0.0061 ppm	0.2536 ppm
Concentration per Run 1	0.0102 ppm	1.7701 ppm	0.0047 ppm	0.2159 ppm	0.8981 ppm	0.0066 ppm	0.2548 ppm
Concentration per Run 2	0.0056 ppm	1.7769 ppm	0.0051 ppm	0.2151 ppm	0.8992 ppm	0.0048 ppm	0.2536 ppm
Concentration per Run 3	0.0063 ppm	1.7627 ppm	0.0044 ppm	0.2170 ppm	0.8999 ppm	0.0069 ppm	0.2524 ppm
Concentration RSD	33.6 %	0.4 %	7.2 %	0.4 %	0.1 %	18.9 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7115 ppm	119.0156 %	121.1651 %	105.5957 %	150.6267 %	152.8538 %	148.6333 %
Concentration per Run 1	0.7132 ppm	118.4137 %	120.2559 %	105.7423 %	149.9192 %	151.9527 %	148.7103 %
Concentration per Run 2	0.7091 ppm	120.0237 %	122.1571 %	106.0403 %	152.4183 %	154.1111 %	149.4749 %
Concentration per Run 3	0.7122 ppm	118.6093 %	121.0824 %	105.0044 %	149.5427 %	152.4975 %	147.7148 %
Concentration RSD	0.3 %	0.7 %	0.8 %	0.5 %	1.0 %	0.7 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1975918-5d2 WG1975918
Analysis started at: 9/26/2024 2:57:05 PM
Rack 1
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0456 ppm	144.2190 ppm	0.1675 ppm	0.8156 ppm	4.0183 ppm	0.0526 ppm	177.5643 ppm
Concentration per Run 1	0.0451 ppm	144.6261 ppm	0.1682 ppm	0.8158 ppm	4.0121 ppm	0.0528 ppm	178.3073 ppm
Concentration per Run 2	0.0462 ppm	142.9593 ppm	0.1666 ppm	0.8132 ppm	3.9591 ppm	0.0518 ppm	175.5726 ppm
Concentration per Run 3	0.0456 ppm	145.0717 ppm	0.1678 ppm	0.8177 ppm	4.0838 ppm	0.0532 ppm	178.8129 ppm
Concentration RSD	1.1 %	0.8 %	0.5 %	0.3 %	1.6 %	1.3 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0414 ppm	0.7305 ppm	0.3595 ppm	0.5747 ppm	345.4692 ppm	18.1789 ppm	0.2963 ppm
Concentration per Run 1	0.0405 ppm	0.7276 ppm	0.3598 ppm	0.5751 ppm	348.1486 ppm	18.1069 ppm	0.2983 ppm
Concentration per Run 2	0.0413 ppm	0.7285 ppm	0.3586 ppm	0.5733 ppm	338.3589 ppm	17.9576 ppm	0.2899 ppm
Concentration per Run 3	0.0424 ppm	0.7354 ppm	0.3601 ppm	0.5757 ppm	349.9001 ppm	18.4721 ppm	0.3007 ppm
Concentration RSD	2.2 %	0.6 %	0.2 %	0.2 %	1.8 %	1.5 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	153.2920 ppm	12.4949 ppm	0.8434 ppm	10.4357 ppm	0.8100 ppm	0.6002 ppm	0.4236 ppm
Concentration per Run 1	153.1789 ppm	12.5602 ppm	0.8340 ppm	10.5227 ppm	0.8139 ppm	0.5965 ppm	0.4193 ppm
Concentration per Run 2	153.6544 ppm	12.3454 ppm	0.8493 ppm	10.2875 ppm	0.8097 ppm	0.5984 ppm	0.4285 ppm
Concentration per Run 3	153.0428 ppm	12.5791 ppm	0.8469 ppm	10.4968 ppm	0.8063 ppm	0.6059 ppm	0.4231 ppm
Concentration RSD	0.2 %	1.0 %	1.0 %	1.2 %	0.5 %	0.8 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1152 ppm	1.9126 ppm	0.8004 ppm	1.1031 ppm	1.6389 ppm	0.1076 ppm	0.6522 ppm
Concentration per Run 1	0.1191 ppm	1.9017 ppm	0.7998 ppm	1.1060 ppm	1.6366 ppm	0.1085 ppm	0.6520 ppm
Concentration per Run 2	0.1144 ppm	1.9225 ppm	0.8029 ppm	1.0838 ppm	1.6419 ppm	0.1065 ppm	0.6536 ppm
Concentration per Run 3	0.1121 ppm	1.9135 ppm	0.7984 ppm	1.1194 ppm	1.6381 ppm	0.1078 ppm	0.6511 ppm
Concentration RSD	3.1 %	0.5 %	0.3 %	1.6 %	0.2 %	1.0 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0142 ppm	115.0996 %	119.3988 %	101.6019 %	141.1468 %	147.1600 %	139.3366 %
Concentration per Run 1	1.0178 ppm	115.3572 %	120.0909 %	101.4403 %	141.6571 %	148.0596 %	138.7376 %
Concentration per Run 2	1.0154 ppm	114.8830 %	121.0684 %	102.0315 %	140.8071 %	149.2084 %	139.4214 %
Concentration per Run 3	1.0092 ppm	115.0588 %	117.0372 %	101.3339 %	140.9761 %	144.2121 %	139.8509 %
Concentration RSD	0.4 %	0.2 %	1.8 %	0.4 %	0.3 %	1.8 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1975918-6d10 WG1975918
Analysis started at: 9/26/2024 3:01:00 PM
Rack 1
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	31.6860 ppm	0.0117 ppm	0.0068 ppm	0.5187 ppm	0.0022 ppm	39.4334 ppm
Concentration per Run 1	0.0015 ppm	31.9126 ppm	0.0135 ppm	0.0075 ppm	0.5206 ppm	0.0022 ppm	39.4721 ppm
Concentration per Run 2	0.0009 ppm	31.7157 ppm	0.0111 ppm	0.0077 ppm	0.5182 ppm	0.0023 ppm	39.5097 ppm
Concentration per Run 3	0.0011 ppm	31.4295 ppm	0.0104 ppm	0.0052 ppm	0.5174 ppm	0.0023 ppm	39.3182 ppm
Concentration RSD	25.3 %	0.8 %	14.0 %	20.6 %	0.3 %	2.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0801 ppm	0.0453 ppm	0.0808 ppm	83.8971 ppm	2.0139 ppm	0.0649 ppm
Concentration per Run 1	-0.0002 ppm	0.0799 ppm	0.0454 ppm	0.0809 ppm	83.4106 ppm	2.0608 ppm	0.0657 ppm
Concentration per Run 2	0.0001 ppm	0.0797 ppm	0.0456 ppm	0.0806 ppm	83.9295 ppm	2.0153 ppm	0.0643 ppm
Concentration per Run 3	0.0001 ppm	0.0806 ppm	0.0448 ppm	0.0808 ppm	84.3511 ppm	1.9658 ppm	0.0648 ppm
Concentration RSD	8,485.1 %	0.6 %	0.8 %	0.2 %	0.6 %	2.4 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	33.8956 ppm	2.8360 ppm	0.0010 ppm	0.3318 ppm	0.1010 ppm	0.0320 ppm	0.0027 ppm
Concentration per Run 1	33.8051 ppm	2.8468 ppm	0.0013 ppm	0.3340 ppm	0.1000 ppm	0.0326 ppm	0.0002 ppm
Concentration per Run 2	33.9282 ppm	2.8308 ppm	0.0008 ppm	0.3329 ppm	0.1018 ppm	0.0308 ppm	0.0033 ppm
Concentration per Run 3	33.9535 ppm	2.8302 ppm	0.0009 ppm	0.3287 ppm	0.1011 ppm	0.0326 ppm	0.0046 ppm
Concentration RSD	0.2 %	0.3 %	26.1 %	0.8 %	0.9 %	3.2 %	84.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0049 ppm	0.3403 ppm	0.0019 ppm	0.0612 ppm	0.1756 ppm	0.0007 ppm	0.0507 ppm
Concentration per Run 1	0.0048 ppm	0.3420 ppm	0.0021 ppm	0.0614 ppm	0.1751 ppm	0.0004 ppm	0.0509 ppm
Concentration per Run 2	0.0048 ppm	0.3428 ppm	0.0015 ppm	0.0612 ppm	0.1760 ppm	0.0010 ppm	0.0510 ppm
Concentration per Run 3	0.0051 ppm	0.3361 ppm	0.0020 ppm	0.0611 ppm	0.1756 ppm	0.0009 ppm	0.0502 ppm
Concentration RSD	3.4 %	1.1 %	17.4 %	0.2 %	0.3 %	39.3 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1468 ppm	112.9152 %	112.5410 %	107.6635 %	118.3932 %	117.2379 %	117.3135 %
Concentration per Run 1	0.1467 ppm	113.4766 %	112.9994 %	108.4812 %	118.8718 %	118.2734 %	117.9167 %
Concentration per Run 2	0.1479 ppm	112.4310 %	112.2110 %	106.5823 %	117.7643 %	116.7735 %	116.3177 %
Concentration per Run 3	0.1457 ppm	112.8380 %	112.4126 %	107.9271 %	118.5434 %	116.6668 %	117.7062 %
Concentration RSD	0.8 %	0.5 %	0.4 %	0.9 %	0.5 %	0.8 %	0.7 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 3:04:55 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4939 ppm	0.4549 ppm	0.4732 ppm	0.4763 ppm	0.4824 ppm	0.4948 ppm	0.4794 ppm
Concentration per Run 1	0.4943 ppm	0.4526 ppm	0.4719 ppm	0.4787 ppm	0.4827 ppm	0.4941 ppm	0.4807 ppm
Concentration per Run 2	0.4940 ppm	0.4590 ppm	0.4733 ppm	0.4752 ppm	0.4841 ppm	0.4973 ppm	0.4799 ppm
Concentration per Run 3	0.4933 ppm	0.4531 ppm	0.4744 ppm	0.4751 ppm	0.4803 ppm	0.4930 ppm	0.4777 ppm
Recovery Percentage 1	98.780 %	90.980 %	94.641 %	95.266 %	96.476 %	98.956 %	95.883 %
Concentration RSD	0.1 %	0.8 %	0.3 %	0.4 %	0.4 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4909 ppm	0.4976 ppm	0.4759 ppm	0.4765 ppm	0.4929 ppm	5.0049 ppm	0.4724 ppm
Concentration per Run 1	0.4889 ppm	0.4973 ppm	0.4766 ppm	0.4757 ppm	0.4910 ppm	5.0001 ppm	0.4737 ppm
Concentration per Run 2	0.4914 ppm	0.4992 ppm	0.4771 ppm	0.4763 ppm	0.4948 ppm	5.0215 ppm	0.4733 ppm
Concentration per Run 3	0.4925 ppm	0.4962 ppm	0.4740 ppm	0.4773 ppm	0.4931 ppm	4.9931 ppm	0.4701 ppm
Recovery Percentage 1	98.181 %	99.510 %	95.178 %	95.291 %	98.585 %	100.099 %	94.475 %
Concentration RSD	0.4 %	0.3 %	0.3 %	0.2 %	0.4 %	0.3 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4755 ppm	0.4732 ppm	0.4709 ppm	9.6196 ppm	0.4885 ppm	0.4851 ppm	0.4966 ppm
Concentration per Run 1	0.4769 ppm	0.4737 ppm	0.4702 ppm	9.5937 ppm	0.4905 ppm	0.4846 ppm	0.4950 ppm
Concentration per Run 2	0.4718 ppm	0.4718 ppm	0.4722 ppm	9.6537 ppm	0.4872 ppm	0.4839 ppm	0.4959 ppm
Concentration per Run 3	0.4778 ppm	0.4741 ppm	0.4704 ppm	9.6114 ppm	0.4880 ppm	0.4867 ppm	0.4989 ppm
Recovery Percentage 1	95.101 %	94.642 %	94.188 %	96.196 %	97.708 %	97.013 %	99.319 %
Concentration RSD	0.7 %	0.3 %	0.2 %	0.3 %	0.4 %	0.3 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4910 ppm	5.2369 ppm	0.4621 ppm	0.4569 ppm	0.4808 ppm	0.4825 ppm	0.4755 ppm
Concentration per Run 1	0.4870 ppm	5.2256 ppm	0.4634 ppm	0.4579 ppm	0.4811 ppm	0.4804 ppm	0.4754 ppm
Concentration per Run 2	0.4922 ppm	5.2389 ppm	0.4613 ppm	0.4578 ppm	0.4813 ppm	0.4830 ppm	0.4745 ppm
Concentration per Run 3	0.4938 ppm	5.2461 ppm	0.4616 ppm	0.4549 ppm	0.4800 ppm	0.4840 ppm	0.4766 ppm
Recovery Percentage 1	98.192 %	99.751 %	92.419 %	91.381 %	96.159 %	96.493 %	95.099 %
Concentration RSD	0.7 %	0.2 %	0.3 %	0.4 %	0.1 %	0.4 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4933 ppm	111.1331 %	109.2937 %	110.8260 %	110.6853 %	107.9582 %	110.4332 %
Concentration per Run 1	0.4948 ppm	111.0265 %	109.5423 %	111.7598 %	110.5933 %	108.4746 %	111.1424 %
Concentration per Run 2	0.4938 ppm	111.7558 %	109.1336 %	109.8745 %	111.4075 %	107.7920 %	109.5186 %
Concentration per Run 3	0.4914 ppm	110.6171 %	109.2051 %	110.8437 %	110.0550 %	107.6081 %	110.6388 %
Recovery Percentage 1	98.665 %						
Concentration RSD	0.4 %	0.5 %	0.2 %	0.9 %	0.6 %	0.4 %	0.8 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 3:08:49 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0043 ppm	0.0007 ppm	0.0022 ppm	0.0001 ppm	0.0001 ppm	0.0013 ppm
Concentration per Run 1	0.0003 ppm	-0.0009 ppm	0.0012 ppm	0.0021 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 2	0.0003 ppm	-0.0080 ppm	0.0000 ppm	0.0014 ppm	0.0002 ppm	0.0001 ppm	-0.0022 ppm
Concentration per Run 3	0.0011 ppm	-0.0042 ppm	0.0008 ppm	0.0032 ppm	0.0000 ppm	0.0001 ppm	0.0058 ppm
Recovery Percentage 1	7.826 %	-4.339 %	13.203 %	7.456 %	1.088 %	1.327 %	1.327 %
Concentration RSD	81.1 %	81.5 %	96.1 %	40.2 %	76.0 %	92.9 %	307.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0000 ppm	0.0002 ppm	0.0015 ppm	0.0129 ppm	-0.0009 ppm
Concentration per Run 1	-0.0001 ppm	0.0007 ppm	0.0009 ppm	-0.0002 ppm	-0.0001 ppm	0.0034 ppm	-0.0013 ppm
Concentration per Run 2	-0.0001 ppm	0.0011 ppm	-0.0005 ppm	0.0007 ppm	0.0003 ppm	0.0302 ppm	-0.0008 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0002 ppm	0.0042 ppm	0.0051 ppm	-0.0007 ppm
Recovery Percentage 1	-0.516 %	3.654 %	0.438 %	2.162 %	2.984 %	0.516 %	-18.417 %
Concentration RSD	288.0 %	47.6 %	1,731.4 %	208.9 %	158.1 %	116.4 %	34.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0008 ppm	0.0001 ppm	0.0011 ppm	-0.0095 ppm	-0.0005 ppm	0.0005 ppm	0.0026 ppm
Concentration per Run 1	-0.0004 ppm	0.0000 ppm	0.0011 ppm	-0.0090 ppm	-0.0012 ppm	0.0012 ppm	0.0025 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	0.0013 ppm	-0.0114 ppm	0.0000 ppm	0.0003 ppm	0.0042 ppm
Concentration per Run 3	0.0025 ppm	0.0000 ppm	0.0008 ppm	-0.0081 ppm	-0.0002 ppm	-0.0001 ppm	0.0012 ppm
Recovery Percentage 1	0.764 %	0.896 %	2.211 %	-0.474 %	-1.807 %	4.590 %	5.236 %
Concentration RSD	200.8 %	171.7 %	22.2 %	17.8 %	142.3 %	152.9 %	57.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	-0.0008 ppm	-0.0007 ppm	0.0002 ppm	-0.0006 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 1	0.0006 ppm	-0.0005 ppm	-0.0018 ppm	0.0000 ppm	-0.0003 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 2	0.0044 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 3	0.0024 ppm	-0.0019 ppm	-0.0004 ppm	0.0003 ppm	-0.0011 ppm	-0.0010 ppm	0.0002 ppm
Recovery Percentage 1	24.659 %	-0.152 %	-1.496 %	1.522 %	-5.886 %	-1.188 %	0.724 %
Concentration RSD	77.8 %	139.4 %	122.1 %	75.9 %	72.4 %	339.7 %	177.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	110.7950 %	108.6873 %	111.3878 %	111.7910 %	108.5606 %	110.8819 %
Concentration per Run 1	0.0002 ppm	110.8049 %	109.1385 %	111.7303 %	111.9864 %	108.4606 %	110.6358 %
Concentration per Run 2	-0.0001 ppm	110.1180 %	109.6054 %	111.8549 %	111.7803 %	109.6911 %	111.4259 %
Concentration per Run 3	-0.0002 ppm	111.4622 %	107.3180 %	110.5781 %	111.6063 %	107.5300 %	110.5838 %
Recovery Percentage 1	-0.748 %						
Concentration RSD	457.9 %	0.6 %	1.1 %	0.6 %	0.2 %	1.0 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2452855-11d2 WG1975918
Analysis started at: 9/26/2024 3:22:29 PM
Rack 1
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0025 ppm	133.9578 ppm	0.0344 ppm	0.4264 ppm	0.9476 ppm	0.0091 ppm	63.5902 ppm
Concentration per Run 1	0.0016 ppm	134.5305 ppm	0.0361 ppm	0.4198 ppm	0.9481 ppm	0.0092 ppm	63.8649 ppm
Concentration per Run 2	0.0028 ppm	133.3771 ppm	0.0356 ppm	0.4263 ppm	0.9493 ppm	0.0091 ppm	63.3495 ppm
Concentration per Run 3	0.0030 ppm	133.9657 ppm	0.0315 ppm	0.4331 ppm	0.9453 ppm	0.0091 ppm	63.5561 ppm
Concentration RSD	29.1 %	0.4 %	7.2 %	1.6 %	0.2 %	0.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.1685 ppm	0.3162 ppm	1.3138 ppm	304.4196 ppm	7.3911 ppm	0.3033 ppm
Concentration per Run 1	0.0013 ppm	0.1681 ppm	0.3125 ppm	1.3095 ppm	305.6853 ppm	7.4095 ppm	0.3033 ppm
Concentration per Run 2	0.0013 ppm	0.1663 ppm	0.3172 ppm	1.3044 ppm	303.9238 ppm	7.3741 ppm	0.3035 ppm
Concentration per Run 3	0.0012 ppm	0.1710 ppm	0.3187 ppm	1.3275 ppm	303.6498 ppm	7.3898 ppm	0.3031 ppm
Concentration RSD	5.1 %	1.4 %	1.0 %	0.9 %	0.4 %	0.2 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	118.3530 ppm	6.3710 ppm	0.0033 ppm	4.3972 ppm	0.3287 ppm	0.1578 ppm	0.0016 ppm
Concentration per Run 1	117.7620 ppm	6.3975 ppm	0.0036 ppm	4.4213 ppm	0.3248 ppm	0.1572 ppm	0.0068 ppm
Concentration per Run 2	117.9375 ppm	6.3510 ppm	0.0028 ppm	4.3982 ppm	0.3286 ppm	0.1593 ppm	0.0021 ppm
Concentration per Run 3	119.3593 ppm	6.3644 ppm	0.0034 ppm	4.3720 ppm	0.3326 ppm	0.1567 ppm	-0.0040 ppm
Concentration RSD	0.7 %	0.4 %	12.8 %	0.6 %	1.2 %	0.9 %	328.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	1.8674 ppm	0.0079 ppm	0.4265 ppm	5.4287 ppm	0.0050 ppm	0.5314 ppm
Concentration per Run 1	-0.0007 ppm	1.8486 ppm	0.0074 ppm	0.4265 ppm	5.3992 ppm	0.0073 ppm	0.5278 ppm
Concentration per Run 2	-0.0005 ppm	1.8668 ppm	0.0072 ppm	0.4267 ppm	5.4152 ppm	0.0034 ppm	0.5305 ppm
Concentration per Run 3	-0.0007 ppm	1.8868 ppm	0.0092 ppm	0.4262 ppm	5.4717 ppm	0.0042 ppm	0.5359 ppm
Concentration RSD	20.4 %	1.0 %	13.4 %	0.1 %	0.7 %	42.2 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7468 ppm	111.9443 %	118.2139 %	105.0861 %	137.9932 %	146.1602 %	137.8167 %
Concentration per Run 1	0.7389 ppm	112.4546 %	117.6450 %	105.5843 %	138.1281 %	145.5216 %	138.4687 %
Concentration per Run 2	0.7489 ppm	111.5083 %	119.2299 %	104.1864 %	137.2617 %	146.9692 %	136.7174 %
Concentration per Run 3	0.7527 ppm	111.8699 %	117.7667 %	105.4876 %	138.5896 %	145.9898 %	138.2640 %
Concentration RSD	1.0 %	0.4 %	0.7 %	0.7 %	0.5 %	0.5 %	0.7 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453863-14d2 WG1975918
Analysis started at: 9/26/2024 3:26:38 PM
Rack 1
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0018 ppm	146.2519 ppm	0.2016 ppm	0.0048 ppm	0.8193 ppm	0.0084 ppm	9.9457 ppm
Concentration per Run 1	0.0017 ppm	146.5326 ppm	0.2032 ppm	0.0052 ppm	0.8192 ppm	0.0084 ppm	9.9625 ppm
Concentration per Run 2	0.0014 ppm	145.9216 ppm	0.2020 ppm	0.0037 ppm	0.8155 ppm	0.0084 ppm	9.9218 ppm
Concentration per Run 3	0.0022 ppm	146.3015 ppm	0.1996 ppm	0.0056 ppm	0.8231 ppm	0.0083 ppm	9.9527 ppm
Concentration RSD	22.1 %	0.2 %	0.9 %	20.5 %	0.5 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0010 ppm	0.0852 ppm	0.2217 ppm	0.4312 ppm	303.9164 ppm	6.5888 ppm	0.1244 ppm
Concentration per Run 1	0.0009 ppm	0.0853 ppm	0.2216 ppm	0.4301 ppm	304.3963 ppm	6.6133 ppm	0.1270 ppm
Concentration per Run 2	0.0010 ppm	0.0850 ppm	0.2216 ppm	0.4306 ppm	302.2827 ppm	6.5653 ppm	0.1230 ppm
Concentration per Run 3	0.0012 ppm	0.0853 ppm	0.2219 ppm	0.4330 ppm	305.0701 ppm	6.5876 ppm	0.1233 ppm
Concentration RSD	17.3 %	0.2 %	0.1 %	0.4 %	0.5 %	0.4 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.6623 ppm	3.7999 ppm	0.0118 ppm	1.0750 ppm	0.1608 ppm	0.1756 ppm	0.0095 ppm
Concentration per Run 1	24.6105 ppm	3.7923 ppm	0.0121 ppm	1.0836 ppm	0.1611 ppm	0.1772 ppm	0.0062 ppm
Concentration per Run 2	24.6916 ppm	3.7928 ppm	0.0115 ppm	1.0660 ppm	0.1608 ppm	0.1740 ppm	0.0070 ppm
Concentration per Run 3	24.6848 ppm	3.8147 ppm	0.0117 ppm	1.0755 ppm	0.1604 ppm	0.1754 ppm	0.0153 ppm
Concentration RSD	0.2 %	0.3 %	2.7 %	0.8 %	0.2 %	0.9 %	52.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0125 ppm	1.7116 ppm	0.0044 ppm	0.0560 ppm	0.2859 ppm	0.0035 ppm	0.3832 ppm
Concentration per Run 1	0.0141 ppm	1.7148 ppm	0.0044 ppm	0.0561 ppm	0.2831 ppm	0.0047 ppm	0.3828 ppm
Concentration per Run 2	0.0128 ppm	1.7009 ppm	0.0027 ppm	0.0556 ppm	0.2865 ppm	0.0017 ppm	0.3829 ppm
Concentration per Run 3	0.0104 ppm	1.7192 ppm	0.0062 ppm	0.0561 ppm	0.2882 ppm	0.0040 ppm	0.3839 ppm
Concentration RSD	15.0 %	0.6 %	39.3 %	0.5 %	0.9 %	46.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5768 ppm	117.1881 %	119.1738 %	107.6055 %	144.9307 %	147.6604 %	144.6124 %
Concentration per Run 1	0.5776 ppm	117.4344 %	119.1369 %	107.3067 %	144.2492 %	147.3935 %	144.8808 %
Concentration per Run 2	0.5746 ppm	117.2182 %	119.5139 %	107.3867 %	145.6415 %	148.1493 %	143.6568 %
Concentration per Run 3	0.5782 ppm	116.9117 %	118.8707 %	108.1231 %	144.9016 %	147.4385 %	145.2997 %
Concentration RSD	0.3 %	0.2 %	0.3 %	0.4 %	0.5 %	0.3 %	0.6 %

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9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453863-15d2 WG1975918
Analysis started at: 9/26/2024 3:30:32 PM
Rack 1
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0027 ppm	172.0697 ppm	0.1328 ppm	0.0063 ppm	1.4847 ppm	0.0101 ppm	9.4869 ppm
Concentration per Run 1	0.0023 ppm	172.1752 ppm	0.1335 ppm	0.0077 ppm	1.4806 ppm	0.0101 ppm	9.5016 ppm
Concentration per Run 2	0.0025 ppm	171.5401 ppm	0.1325 ppm	0.0045 ppm	1.4832 ppm	0.0101 ppm	9.4622 ppm
Concentration per Run 3	0.0035 ppm	172.4937 ppm	0.1323 ppm	0.0068 ppm	1.4904 ppm	0.0102 ppm	9.4967 ppm
Concentration RSD	22.9 %	0.3 %	0.5 %	25.6 %	0.3 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.2159 ppm	0.2465 ppm	0.4440 ppm	369.2677 ppm	8.6254 ppm	0.2754 ppm
Concentration per Run 1	0.0001 ppm	0.2150 ppm	0.2466 ppm	0.4407 ppm	369.3612 ppm	8.6257 ppm	0.2760 ppm
Concentration per Run 2	0.0003 ppm	0.2165 ppm	0.2458 ppm	0.4433 ppm	368.7491 ppm	8.6120 ppm	0.2754 ppm
Concentration per Run 3	0.0005 ppm	0.2163 ppm	0.2471 ppm	0.4480 ppm	369.6929 ppm	8.6386 ppm	0.2748 ppm
Concentration RSD	63.8 %	0.4 %	0.3 %	0.8 %	0.1 %	0.2 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	53.4828 ppm	4.3318 ppm	0.0033 ppm	5.4996 ppm	0.3000 ppm	0.1600 ppm	0.0065 ppm
Concentration per Run 1	53.4486 ppm	4.3331 ppm	0.0033 ppm	5.5190 ppm	0.2995 ppm	0.1592 ppm	0.0068 ppm
Concentration per Run 2	53.5703 ppm	4.3295 ppm	0.0036 ppm	5.4888 ppm	0.3004 ppm	0.1607 ppm	0.0094 ppm
Concentration per Run 3	53.4295 ppm	4.3327 ppm	0.0031 ppm	5.4911 ppm	0.3001 ppm	0.1600 ppm	0.0031 ppm
Concentration RSD	0.1 %	0.0 %	6.4 %	0.3 %	0.2 %	0.5 %	48.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0063 ppm	1.0985 ppm	0.0044 ppm	0.0705 ppm	0.5724 ppm	0.0032 ppm	0.2947 ppm
Concentration per Run 1	0.0084 ppm	1.0936 ppm	0.0052 ppm	0.0705 ppm	0.5725 ppm	0.0032 ppm	0.2942 ppm
Concentration per Run 2	0.0046 ppm	1.0931 ppm	0.0038 ppm	0.0704 ppm	0.5706 ppm	0.0033 ppm	0.2951 ppm
Concentration per Run 3	0.0059 ppm	1.1088 ppm	0.0042 ppm	0.0708 ppm	0.5740 ppm	0.0031 ppm	0.2948 ppm
Concentration RSD	30.2 %	0.8 %	16.3 %	0.3 %	0.3 %	2.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6497 ppm	118.3694 %	121.5140 %	107.0064 %	142.1637 %	145.8286 %	141.4754 %
Concentration per Run 1	0.6496 ppm	119.4203 %	121.8740 %	106.6063 %	142.8984 %	146.7098 %	140.7953 %
Concentration per Run 2	0.6494 ppm	117.2744 %	121.1087 %	107.6857 %	140.6828 %	144.9540 %	142.6023 %
Concentration per Run 3	0.6500 ppm	118.4136 %	121.5594 %	106.7274 %	142.9099 %	145.8220 %	141.0287 %
Concentration RSD	0.1 %	0.9 %	0.3 %	0.6 %	0.9 %	0.6 %	0.7 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-01d2 WG1975918
Analysis started at: 9/26/2024 3:34:25 PM
Rack 1
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0018 ppm	241.1044 ppm	-0.0004 ppm	0.0041 ppm	2.4953 ppm	0.0080 ppm	22.6496 ppm
Concentration per Run 1	0.0018 ppm	241.7658 ppm	-0.0031 ppm	0.0062 ppm	2.4937 ppm	0.0084 ppm	22.6899 ppm
Concentration per Run 2	0.0011 ppm	240.2219 ppm	0.0024 ppm	0.0030 ppm	2.4936 ppm	0.0079 ppm	22.6173 ppm
Concentration per Run 3	0.0024 ppm	241.3256 ppm	-0.0005 ppm	0.0031 ppm	2.4984 ppm	0.0078 ppm	22.6415 ppm
Concentration RSD	35.1 %	0.3 %	663.7 %	44.2 %	0.1 %	4.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.1988 ppm	0.6344 ppm	0.5612 ppm	361.9704 ppm	137.3071 ppm	0.2578 ppm
Concentration per Run 1	0.0004 ppm	0.1969 ppm	0.6322 ppm	0.5570 ppm	362.5244 ppm	136.5728 ppm	0.2592 ppm
Concentration per Run 2	0.0003 ppm	0.1977 ppm	0.6298 ppm	0.5626 ppm	361.5986 ppm	137.2995 ppm	0.2563 ppm
Concentration per Run 3	-0.0001 ppm	0.2018 ppm	0.6411 ppm	0.5641 ppm	361.7881 ppm	138.0490 ppm	0.2579 ppm
Concentration RSD	126.9 %	1.3 %	0.9 %	0.7 %	0.1 %	0.5 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	105.9578 ppm	5.1746 ppm	0.0015 ppm	1.7439 ppm	0.4860 ppm	0.1385 ppm	-0.0035 ppm
Concentration per Run 1	105.8097 ppm	5.1718 ppm	0.0011 ppm	1.7512 ppm	0.4837 ppm	0.1389 ppm	-0.0031 ppm
Concentration per Run 2	105.4597 ppm	5.1707 ppm	0.0011 ppm	1.7309 ppm	0.4843 ppm	0.1386 ppm	-0.0031 ppm
Concentration per Run 3	106.6041 ppm	5.1814 ppm	0.0023 ppm	1.7497 ppm	0.4899 ppm	0.1382 ppm	-0.0043 ppm
Concentration RSD	0.6 %	0.1 %	45.4 %	0.6 %	0.7 %	0.3 %	20.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	0.5674 ppm	0.0310 ppm	0.1674 ppm	28.9998 ppm	0.0197 ppm	0.6639 ppm
Concentration per Run 1	-0.0009 ppm	0.5562 ppm	0.0313 ppm	0.1674 ppm	28.9976 ppm	0.0205 ppm	0.6607 ppm
Concentration per Run 2	0.0027 ppm	0.5595 ppm	0.0295 ppm	0.1673 ppm	28.8209 ppm	0.0212 ppm	0.6660 ppm
Concentration per Run 3	0.0038 ppm	0.5866 ppm	0.0323 ppm	0.1674 ppm	29.1809 ppm	0.0175 ppm	0.6649 ppm
Concentration RSD	132.3 %	2.9 %	4.6 %	0.0 %	0.6 %	10.1 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8641 ppm	124.8724 %	131.2041 %	129.0689 %	128.4791 %	134.9115 %	128.4516 %
Concentration per Run 1	0.8593 ppm	126.0723 %	131.1414 %	128.3737 %	129.6352 %	135.7805 %	128.0145 %
Concentration per Run 2	0.8606 ppm	124.2051 %	130.9313 %	129.6795 %	127.9162 %	134.1138 %	128.3151 %
Concentration per Run 3	0.8724 ppm	124.3399 %	131.5397 %	129.1536 %	127.8857 %	134.8401 %	129.0253 %
Concentration RSD	0.8 %	0.8 %	0.2 %	0.5 %	0.8 %	0.6 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-02d2 WG1975918
Analysis started at: 9/26/2024 3:38:19 PM
Rack 1
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	168.8312 ppm	0.0002 ppm	0.0017 ppm	1.8960 ppm	0.0038 ppm	11.9255 ppm
Concentration per Run 1	0.0010 ppm	168.1335 ppm	0.0008 ppm	0.0010 ppm	1.8977 ppm	0.0038 ppm	11.8952 ppm
Concentration per Run 2	0.0008 ppm	169.1062 ppm	0.0006 ppm	0.0019 ppm	1.8955 ppm	0.0038 ppm	11.9323 ppm
Concentration per Run 3	0.0017 ppm	169.2540 ppm	-0.0009 ppm	0.0022 ppm	1.8947 ppm	0.0038 ppm	11.9491 ppm
Concentration RSD	39.9 %	0.4 %	489.1 %	37.6 %	0.1 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.1768 ppm	0.3736 ppm	0.4309 ppm	268.2668 ppm	111.1660 ppm	0.1659 ppm
Concentration per Run 1	0.0005 ppm	0.1770 ppm	0.3741 ppm	0.4313 ppm	268.6093 ppm	110.9292 ppm	0.1673 ppm
Concentration per Run 2	-0.0001 ppm	0.1749 ppm	0.3720 ppm	0.4292 ppm	268.2797 ppm	111.3144 ppm	0.1664 ppm
Concentration per Run 3	0.0001 ppm	0.1783 ppm	0.3746 ppm	0.4323 ppm	267.9114 ppm	111.2545 ppm	0.1640 ppm
Concentration RSD	145.3 %	1.0 %	0.4 %	0.4 %	0.1 %	0.2 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	70.0818 ppm	3.0889 ppm	0.0046 ppm	1.8215 ppm	0.1971 ppm	0.0620 ppm	0.0018 ppm
Concentration per Run 1	70.1493 ppm	3.0786 ppm	0.0048 ppm	1.8183 ppm	0.1967 ppm	0.0611 ppm	0.0040 ppm
Concentration per Run 2	69.8824 ppm	3.0948 ppm	0.0048 ppm	1.8215 ppm	0.1968 ppm	0.0622 ppm	-0.0003 ppm
Concentration per Run 3	70.2137 ppm	3.0932 ppm	0.0041 ppm	1.8247 ppm	0.1978 ppm	0.0626 ppm	0.0017 ppm
Concentration RSD	0.3 %	0.3 %	8.3 %	0.2 %	0.3 %	1.2 %	120.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	0.6793 ppm	0.0196 ppm	0.0572 ppm	22.5282 ppm	0.0152 ppm	0.4995 ppm
Concentration per Run 1	0.0014 ppm	0.6881 ppm	0.0195 ppm	0.0572 ppm	22.4599 ppm	0.0156 ppm	0.4986 ppm
Concentration per Run 2	-0.0009 ppm	0.6784 ppm	0.0190 ppm	0.0571 ppm	22.4772 ppm	0.0154 ppm	0.4993 ppm
Concentration per Run 3	0.0045 ppm	0.6713 ppm	0.0203 ppm	0.0572 ppm	22.6475 ppm	0.0145 ppm	0.5005 ppm
Concentration RSD	162.8 %	1.2 %	3.3 %	0.1 %	0.5 %	3.8 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5690 ppm	121.3566 %	125.0973 %	124.0427 %	122.3647 %	125.4843 %	121.5312 %
Concentration per Run 1	0.5708 ppm	121.8254 %	123.8749 %	124.6997 %	122.7703 %	123.8704 %	121.9121 %
Concentration per Run 2	0.5699 ppm	121.4411 %	126.2872 %	123.3423 %	122.4799 %	126.8901 %	121.8012 %
Concentration per Run 3	0.5661 ppm	120.8033 %	125.1298 %	124.0860 %	121.8439 %	125.6924 %	120.8802 %
Concentration RSD	0.4 %	0.4 %	1.0 %	0.5 %	0.4 %	1.2 %	0.5 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-03d2 WG1975918
Analysis started at: 9/26/2024 3:42:12 PM
Rack 1
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	121.2859 ppm	0.0029 ppm	0.0096 ppm	1.5101 ppm	0.0031 ppm	36.2018 ppm
Concentration per Run 1	0.0009 ppm	121.8414 ppm	0.0045 ppm	0.0073 ppm	1.5204 ppm	0.0029 ppm	36.3541 ppm
Concentration per Run 2	0.0010 ppm	121.1227 ppm	0.0026 ppm	0.0103 ppm	1.5057 ppm	0.0033 ppm	36.0712 ppm
Concentration per Run 3	0.0009 ppm	120.8938 ppm	0.0016 ppm	0.0111 ppm	1.5040 ppm	0.0031 ppm	36.1802 ppm
Concentration RSD	2.3 %	0.4 %	51.5 %	20.9 %	0.6 %	5.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.1028 ppm	0.2545 ppm	0.1448 ppm	227.4062 ppm	93.8173 ppm	0.1783 ppm
Concentration per Run 1	0.0001 ppm	0.1009 ppm	0.2553 ppm	0.1443 ppm	227.2178 ppm	94.4529 ppm	0.1802 ppm
Concentration per Run 2	0.0005 ppm	0.1050 ppm	0.2549 ppm	0.1458 ppm	228.1741 ppm	93.5022 ppm	0.1774 ppm
Concentration per Run 3	0.0002 ppm	0.1023 ppm	0.2534 ppm	0.1443 ppm	226.8269 ppm	93.4966 ppm	0.1773 ppm
Concentration RSD	75.9 %	2.0 %	0.4 %	0.6 %	0.3 %	0.6 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	57.1604 ppm	2.7599 ppm	0.0023 ppm	1.5126 ppm	0.2345 ppm	0.0822 ppm	0.0055 ppm
Concentration per Run 1	57.2347 ppm	2.7669 ppm	0.0021 ppm	1.5100 ppm	0.2360 ppm	0.0829 ppm	0.0027 ppm
Concentration per Run 2	57.2387 ppm	2.7571 ppm	0.0020 ppm	1.5184 ppm	0.2327 ppm	0.0802 ppm	0.0049 ppm
Concentration per Run 3	57.0077 ppm	2.7556 ppm	0.0026 ppm	1.5093 ppm	0.2347 ppm	0.0836 ppm	0.0089 ppm
Concentration RSD	0.2 %	0.2 %	14.4 %	0.3 %	0.7 %	2.2 %	56.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	3.0849 ppm	0.0232 ppm	0.1802 ppm	20.0835 ppm	0.0108 ppm	0.4109 ppm
Concentration per Run 1	0.0038 ppm	3.0930 ppm	0.0210 ppm	0.1804 ppm	20.1188 ppm	0.0131 ppm	0.4112 ppm
Concentration per Run 2	0.0034 ppm	3.0982 ppm	0.0249 ppm	0.1804 ppm	20.0994 ppm	0.0100 ppm	0.4104 ppm
Concentration per Run 3	0.0035 ppm	3.0635 ppm	0.0236 ppm	0.1799 ppm	20.0322 ppm	0.0094 ppm	0.4110 ppm
Concentration RSD	6.3 %	0.6 %	8.5 %	0.2 %	0.2 %	18.6 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5283 ppm	118.7965 %	121.4879 %	119.9835 %	125.1836 %	127.7891 %	124.0628 %
Concentration per Run 1	0.5293 ppm	120.3758 %	121.3542 %	121.2146 %	126.7294 %	127.7041 %	124.5762 %
Concentration per Run 2	0.5303 ppm	117.9051 %	121.2515 %	119.9522 %	124.2099 %	127.4400 %	124.0964 %
Concentration per Run 3	0.5254 ppm	118.1086 %	121.8578 %	118.7836 %	124.6113 %	128.2232 %	123.5159 %
Concentration RSD	0.5 %	1.2 %	0.3 %	1.0 %	1.1 %	0.3 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-04d2 WG1975918
Analysis started at: 9/26/2024 3:46:05 PM
Rack 1
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	148.6103 ppm	-0.0014 ppm	0.0026 ppm	1.6503 ppm	0.0028 ppm	13.4197 ppm
Concentration per Run 1	0.0004 ppm	148.5837 ppm	0.0006 ppm	0.0010 ppm	1.6584 ppm	0.0025 ppm	13.4231 ppm
Concentration per Run 2	0.0005 ppm	148.9043 ppm	-0.0018 ppm	0.0025 ppm	1.6507 ppm	0.0028 ppm	13.4221 ppm
Concentration per Run 3	0.0005 ppm	148.3429 ppm	-0.0031 ppm	0.0041 ppm	1.6417 ppm	0.0032 ppm	13.4140 ppm
Concentration RSD	17.1 %	0.2 %	130.0 %	60.4 %	0.5 %	11.7 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0884 ppm	0.3337 ppm	0.3772 ppm	260.5257 ppm	107.0194 ppm	0.1857 ppm
Concentration per Run 1	0.0001 ppm	0.0898 ppm	0.3310 ppm	0.3765 ppm	259.7936 ppm	107.1930 ppm	0.1881 ppm
Concentration per Run 2	0.0002 ppm	0.0885 ppm	0.3369 ppm	0.3798 ppm	260.7504 ppm	107.5323 ppm	0.1856 ppm
Concentration per Run 3	0.0002 ppm	0.0869 ppm	0.3332 ppm	0.3754 ppm	261.0330 ppm	106.3328 ppm	0.1834 ppm
Concentration RSD	32.8 %	1.6 %	0.9 %	0.6 %	0.2 %	0.6 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	62.9009 ppm	2.6803 ppm	0.0009 ppm	1.4758 ppm	0.1540 ppm	0.0423 ppm	0.0012 ppm
Concentration per Run 1	62.8531 ppm	2.6908 ppm	0.0012 ppm	1.4768 ppm	0.1523 ppm	0.0420 ppm	0.0041 ppm
Concentration per Run 2	63.2080 ppm	2.6877 ppm	0.0005 ppm	1.4752 ppm	0.1554 ppm	0.0429 ppm	-0.0014 ppm
Concentration per Run 3	62.6414 ppm	2.6623 ppm	0.0009 ppm	1.4754 ppm	0.1541 ppm	0.0422 ppm	0.0009 ppm
Concentration RSD	0.5 %	0.6 %	38.2 %	0.1 %	1.0 %	1.1 %	225.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	1.1457 ppm	0.0241 ppm	0.1078 ppm	21.8406 ppm	0.0134 ppm	0.5057 ppm
Concentration per Run 1	0.0059 ppm	1.1634 ppm	0.0229 ppm	0.1081 ppm	21.7512 ppm	0.0129 ppm	0.5057 ppm
Concentration per Run 2	-0.0032 ppm	1.1400 ppm	0.0241 ppm	0.1077 ppm	21.9605 ppm	0.0127 ppm	0.5075 ppm
Concentration per Run 3	0.0023 ppm	1.1336 ppm	0.0254 ppm	0.1075 ppm	21.8101 ppm	0.0147 ppm	0.5040 ppm
Concentration RSD	276.5 %	1.4 %	5.2 %	0.3 %	0.5 %	8.2 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5858 ppm	120.4157 %	123.6395 %	123.3963 %	117.4440 %	120.2817 %	117.6002 %
Concentration per Run 1	0.5816 ppm	121.1619 %	123.9612 %	123.2477 %	118.1957 %	120.6079 %	117.5690 %
Concentration per Run 2	0.5881 ppm	119.9917 %	123.2798 %	123.3274 %	117.2687 %	119.7697 %	117.8251 %
Concentration per Run 3	0.5877 ppm	120.0937 %	123.6777 %	123.6139 %	116.8674 %	120.4675 %	117.4066 %
Concentration RSD	0.6 %	0.5 %	0.3 %	0.2 %	0.6 %	0.4 %	0.2 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-05d2 WG1975918
Analysis started at: 9/26/2024 3:49:59 PM
Rack 1
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0011 ppm	148.1981 ppm	0.0036 ppm	0.0074 ppm	2.1943 ppm	0.0031 ppm	39.7665 ppm
Concentration per Run 1	0.0004 ppm	151.5395 ppm	0.0026 ppm	0.0079 ppm	2.2245 ppm	0.0035 ppm	40.6272 ppm
Concentration per Run 2	0.0011 ppm	147.4387 ppm	0.0025 ppm	0.0079 ppm	2.1891 ppm	0.0026 ppm	39.4120 ppm
Concentration per Run 3	0.0019 ppm	145.6162 ppm	0.0058 ppm	0.0063 ppm	2.1693 ppm	0.0034 ppm	39.2602 ppm
Concentration RSD	66.2 %	2.0 %	51.7 %	12.6 %	1.3 %	15.4 %	1.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0030 ppm	0.1182 ppm	0.3002 ppm	0.6745 ppm	290.1842 ppm	116.0360 ppm	0.2364 ppm
Concentration per Run 1	0.0028 ppm	0.1158 ppm	0.3018 ppm	0.6772 ppm	297.0328 ppm	116.6426 ppm	0.2398 ppm
Concentration per Run 2	0.0028 ppm	0.1192 ppm	0.2982 ppm	0.6716 ppm	286.2699 ppm	116.6605 ppm	0.2364 ppm
Concentration per Run 3	0.0033 ppm	0.1198 ppm	0.3007 ppm	0.6749 ppm	287.2499 ppm	114.8049 ppm	0.2330 ppm
Concentration RSD	10.5 %	1.8 %	0.6 %	0.4 %	2.1 %	0.9 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	76.9650 ppm	3.6206 ppm	0.0014 ppm	3.2773 ppm	0.2402 ppm	0.7202 ppm	0.0015 ppm
Concentration per Run 1	76.8144 ppm	3.6901 ppm	0.0014 ppm	3.3526 ppm	0.2432 ppm	0.7202 ppm	0.0040 ppm
Concentration per Run 2	76.7660 ppm	3.5920 ppm	0.0021 ppm	3.2575 ppm	0.2384 ppm	0.7180 ppm	-0.0001 ppm
Concentration per Run 3	77.3145 ppm	3.5797 ppm	0.0008 ppm	3.2220 ppm	0.2389 ppm	0.7224 ppm	0.0006 ppm
Concentration RSD	0.4 %	1.7 %	45.2 %	2.1 %	1.1 %	0.3 %	149.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0030 ppm	1.4374 ppm	0.0482 ppm	0.2475 ppm	22.5549 ppm	0.0144 ppm	0.5124 ppm
Concentration per Run 1	0.0027 ppm	1.4128 ppm	0.0479 ppm	0.2516 ppm	22.5742 ppm	0.0148 ppm	0.5137 ppm
Concentration per Run 2	0.0045 ppm	1.4361 ppm	0.0472 ppm	0.2461 ppm	22.5288 ppm	0.0142 ppm	0.5104 ppm
Concentration per Run 3	0.0019 ppm	1.4634 ppm	0.0495 ppm	0.2447 ppm	22.5617 ppm	0.0142 ppm	0.5131 ppm
Concentration RSD	44.2 %	1.8 %	2.5 %	1.5 %	0.1 %	2.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.6495 ppm	120.9767 %	121.8882 %	122.7227 %	121.6543 %	122.7627 %	120.7203 %
Concentration per Run 1	1.6608 ppm	120.9438 %	120.4119 %	122.6805 %	121.6104 %	121.5813 %	120.9078 %
Concentration per Run 2	1.6344 ppm	121.0388 %	121.8437 %	122.8842 %	121.5352 %	122.8082 %	120.5514 %
Concentration per Run 3	1.6531 ppm	120.9473 %	123.4088 %	122.6033 %	121.8174 %	123.8985 %	120.7016 %
Concentration RSD	0.8 %	0.0 %	1.2 %	0.1 %	0.1 %	0.9 %	0.1 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-06d2 WG1975918
Analysis started at: 9/26/2024 3:53:53 PM
Rack 1
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0011 ppm	342.8228 ppm	0.0019 ppm	-0.0007 ppm	2.1508 ppm	0.0164 ppm	57.5179 ppm
Concentration per Run 1	0.0012 ppm	342.2018 ppm	0.0015 ppm	-0.0018 ppm	2.1399 ppm	0.0164 ppm	57.4820 ppm
Concentration per Run 2	0.0005 ppm	343.5373 ppm	0.0018 ppm	0.0008 ppm	2.1645 ppm	0.0163 ppm	57.7001 ppm
Concentration per Run 3	0.0017 ppm	342.7294 ppm	0.0023 ppm	-0.0012 ppm	2.1479 ppm	0.0163 ppm	57.3717 ppm
Concentration RSD	55.5 %	0.2 %	21.1 %	183.6 %	0.6 %	0.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.1316 ppm	0.6820 ppm	0.0002 ppm	184.0683 ppm	75.7454 ppm	0.2983 ppm
Concentration per Run 1	-0.0001 ppm	0.1319 ppm	0.6830 ppm	0.0007 ppm	183.9562 ppm	75.0289 ppm	0.2981 ppm
Concentration per Run 2	-0.0005 ppm	0.1307 ppm	0.6810 ppm	-0.0002 ppm	184.7997 ppm	76.4133 ppm	0.2982 ppm
Concentration per Run 3	-0.0003 ppm	0.1322 ppm	0.6819 ppm	0.0000 ppm	183.4488 ppm	75.7940 ppm	0.2987 ppm
Concentration RSD	61.7 %	0.6 %	0.1 %	282.6 %	0.4 %	0.9 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	168.8661 ppm	6.2168 ppm	-0.0010 ppm	2.9767 ppm	2.3317 ppm	0.0892 ppm	-0.0051 ppm
Concentration per Run 1	169.5941 ppm	6.2228 ppm	-0.0002 ppm	2.9773 ppm	2.3337 ppm	0.0907 ppm	-0.0057 ppm
Concentration per Run 2	168.6015 ppm	6.2220 ppm	-0.0016 ppm	2.9964 ppm	2.3323 ppm	0.0875 ppm	-0.0084 ppm
Concentration per Run 3	168.4026 ppm	6.2056 ppm	-0.0010 ppm	2.9565 ppm	2.3291 ppm	0.0895 ppm	-0.0010 ppm
Concentration RSD	0.4 %	0.2 %	73.1 %	0.7 %	0.1 %	1.8 %	73.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0041 ppm	1.0706 ppm	0.0111 ppm	0.2972 ppm	11.2689 ppm	0.0126 ppm	0.1854 ppm
Concentration per Run 1	0.0081 ppm	1.0892 ppm	0.0108 ppm	0.2964 ppm	11.2993 ppm	0.0107 ppm	0.1855 ppm
Concentration per Run 2	0.0016 ppm	1.0566 ppm	0.0112 ppm	0.2990 ppm	11.2358 ppm	0.0136 ppm	0.1863 ppm
Concentration per Run 3	0.0027 ppm	1.0659 ppm	0.0113 ppm	0.2961 ppm	11.2715 ppm	0.0134 ppm	0.1843 ppm
Concentration RSD	84.9 %	1.6 %	2.1 %	0.5 %	0.3 %	12.9 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4441 ppm	113.0295 %	118.8244 %	109.0197 %	144.6046 %	153.2103 %	146.4471 %
Concentration per Run 1	0.4446 ppm	113.0545 %	119.2748 %	108.9916 %	144.2537 %	153.5922 %	146.7172 %
Concentration per Run 2	0.4445 ppm	112.2747 %	117.6415 %	108.9708 %	143.8877 %	152.0769 %	146.0354 %
Concentration per Run 3	0.4433 ppm	113.7593 %	119.5569 %	109.0966 %	145.6723 %	153.9617 %	146.5887 %
Concentration RSD	0.2 %	0.7 %	0.9 %	0.1 %	0.7 %	0.7 %	0.2 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: xL2454047-07d2 WG1975918
Analysis started at: 9/26/2024 3:57:47 PM
Rack 1
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0019 ppm	416.9339 ppm	-0.0028 ppm	-0.0033 ppm	0.9370 ppm	0.0128 ppm	73.4898 ppm
Concentration per Run 1	0.0012 ppm	416.9671 ppm	0.0000 ppm	-0.0043 ppm	0.9382 ppm	0.0129 ppm	73.5700 ppm
Concentration per Run 2	0.0020 ppm	417.9973 ppm	-0.0054 ppm	-0.0022 ppm	0.9367 ppm	0.0127 ppm	73.7098 ppm
Concentration per Run 3	0.0025 ppm	415.8372 ppm	-0.0031 ppm	-0.0035 ppm	0.9361 ppm	0.0128 ppm	73.1895 ppm
Concentration RSD	35.0 %	0.3 %	96.1 %	32.2 %	0.1 %	0.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0007 ppm	0.3874 ppm	7.6790 ppm	0.0005 ppm	316.6489 ppm	103.6170 ppm	0.3341 ppm
Concentration per Run 1	-0.0008 ppm	0.3844 ppm	7.6485 ppm	0.0006 ppm	316.9722 ppm	103.1228 ppm	0.3338 ppm
Concentration per Run 2	-0.0007 ppm	0.3857 ppm	7.7082 ppm	-0.0003 ppm	316.0491 ppm	103.8501 ppm	0.3362 ppm
Concentration per Run 3	-0.0007 ppm	0.3920 ppm	7.6801 ppm	0.0013 ppm	316.9255 ppm	103.8780 ppm	0.3323 ppm
Concentration RSD	10.7 %	1.0 %	0.4 %	147.6 %	0.2 %	0.4 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	568.7057 ppm	2.7436 ppm	0.0000 ppm	21.0112 ppm	6.0403 ppm	0.0448 ppm	-0.0067 ppm
Concentration per Run 1	566.5890 ppm	2.7444 ppm	0.0014 ppm	21.0044 ppm	6.0108 ppm	0.0458 ppm	-0.0110 ppm
Concentration per Run 2	567.7337 ppm	2.7436 ppm	-0.0013 ppm	21.1044 ppm	6.0418 ppm	0.0438 ppm	-0.0054 ppm
Concentration per Run 3	571.7943 ppm	2.7428 ppm	-0.0002 ppm	20.9248 ppm	6.0683 ppm	0.0448 ppm	-0.0037 ppm
Concentration RSD	0.5 %	0.0 %	56,936.4 %	0.4 %	0.5 %	2.3 %	57.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	0.4752 ppm	0.0143 ppm	0.2775 ppm	18.7247 ppm	0.0236 ppm	0.4867 ppm
Concentration per Run 1	0.0031 ppm	0.4726 ppm	0.0142 ppm	0.2769 ppm	18.6119 ppm	0.0245 ppm	0.4852 ppm
Concentration per Run 2	-0.0018 ppm	0.4719 ppm	0.0144 ppm	0.2773 ppm	18.7392 ppm	0.0221 ppm	0.4846 ppm
Concentration per Run 3	0.0054 ppm	0.4810 ppm	0.0143 ppm	0.2782 ppm	18.8230 ppm	0.0241 ppm	0.4903 ppm
Concentration RSD	166.3 %	1.1 %	0.9 %	0.3 %	0.6 %	5.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6827 ppm	105.2363 %	110.4210 %	100.8330 %	109.4067 %	114.9750 %	107.5686 %
Concentration per Run 1	0.6794 ppm	105.6148 %	109.6058 %	100.2770 %	109.7025 %	114.1727 %	107.2227 %
Concentration per Run 2	0.6847 ppm	105.4497 %	110.4366 %	100.8688 %	109.5972 %	115.4585 %	107.1753 %
Concentration per Run 3	0.6839 ppm	104.6445 %	111.2207 %	101.3530 %	108.9203 %	115.2937 %	108.3078 %
Concentration RSD	0.4 %	0.5 %	0.7 %	0.5 %	0.4 %	0.6 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 4:01:41 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5004 ppm	0.4798 ppm	0.4776 ppm	0.4822 ppm	0.4923 ppm	0.5016 ppm	0.4857 ppm
Concentration per Run 1	0.5010 ppm	0.4763 ppm	0.4752 ppm	0.4829 ppm	0.4893 ppm	0.5001 ppm	0.4897 ppm
Concentration per Run 2	0.4991 ppm	0.4744 ppm	0.4778 ppm	0.4807 ppm	0.4951 ppm	0.5045 ppm	0.4814 ppm
Concentration per Run 3	0.5010 ppm	0.4885 ppm	0.4799 ppm	0.4829 ppm	0.4924 ppm	0.5003 ppm	0.4859 ppm
Recovery Percentage 1	100.073 %	95.955 %	95.522 %	96.431 %	98.456 %	100.327 %	97.130 %
Concentration RSD	0.2 %	1.6 %	0.5 %	0.3 %	0.6 %	0.5 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4969 ppm	0.5069 ppm	0.4830 ppm	0.4823 ppm	0.5026 ppm	5.1469 ppm	0.4803 ppm
Concentration per Run 1	0.4964 ppm	0.5074 ppm	0.4846 ppm	0.4797 ppm	0.5011 ppm	5.1446 ppm	0.4768 ppm
Concentration per Run 2	0.4963 ppm	0.5065 ppm	0.4811 ppm	0.4840 ppm	0.5076 ppm	5.1637 ppm	0.4836 ppm
Concentration per Run 3	0.4981 ppm	0.5068 ppm	0.4833 ppm	0.4830 ppm	0.4989 ppm	5.1325 ppm	0.4806 ppm
Recovery Percentage 1	99.384 %	101.376 %	96.602 %	96.451 %	100.512 %	102.939 %	96.061 %
Concentration RSD	0.2 %	0.1 %	0.4 %	0.5 %	0.9 %	0.3 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4981 ppm	0.4806 ppm	0.4778 ppm	9.7525 ppm	0.4955 ppm	0.4913 ppm	0.5054 ppm
Concentration per Run 1	0.5039 ppm	0.4813 ppm	0.4736 ppm	9.7432 ppm	0.4955 ppm	0.4910 ppm	0.5059 ppm
Concentration per Run 2	0.4964 ppm	0.4820 ppm	0.4771 ppm	9.7447 ppm	0.4931 ppm	0.4910 ppm	0.5028 ppm
Concentration per Run 3	0.4942 ppm	0.4785 ppm	0.4828 ppm	9.7697 ppm	0.4979 ppm	0.4917 ppm	0.5075 ppm
Recovery Percentage 1	99.624 %	96.122 %	95.563 %	97.525 %	99.097 %	98.251 %	101.079 %
Concentration RSD	1.0 %	0.4 %	1.0 %	0.2 %	0.5 %	0.1 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4937 ppm	5.3088 ppm	0.4694 ppm	0.4637 ppm	0.4944 ppm	0.4890 ppm	0.4814 ppm
Concentration per Run 1	0.4927 ppm	5.2724 ppm	0.4684 ppm	0.4628 ppm	0.4962 ppm	0.4891 ppm	0.4806 ppm
Concentration per Run 2	0.4918 ppm	5.3031 ppm	0.4672 ppm	0.4662 ppm	0.4930 ppm	0.4885 ppm	0.4824 ppm
Concentration per Run 3	0.4967 ppm	5.3508 ppm	0.4727 ppm	0.4621 ppm	0.4940 ppm	0.4893 ppm	0.4812 ppm
Recovery Percentage 1	98.747 %	101.120 %	93.890 %	92.744 %	98.882 %	97.791 %	96.280 %
Concentration RSD	0.5 %	0.7 %	0.6 %	0.5 %	0.3 %	0.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4997 ppm	110.8578 %	108.1407 %	109.1447 %	110.4461 %	107.0148 %	108.7580 %
Concentration per Run 1	0.5009 ppm	110.8167 %	108.3724 %	108.9217 %	110.5428 %	107.1431 %	108.5852 %
Concentration per Run 2	0.4965 ppm	111.3798 %	108.9053 %	109.6172 %	110.8776 %	107.5491 %	109.1195 %
Concentration per Run 3	0.5016 ppm	110.3769 %	107.1445 %	108.8951 %	109.9178 %	106.3523 %	108.5694 %
Recovery Percentage 1	99.937 %						
Concentration RSD	0.6 %	0.5 %	0.8 %	0.4 %	0.4 %	0.6 %	0.3 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 4:05:36 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	-0.0013 ppm	0.0033 ppm	0.0037 ppm	0.0000 ppm	0.0001 ppm	0.0016 ppm
Concentration per Run 1	0.0008 ppm	-0.0047 ppm	0.0005 ppm	0.0034 ppm	0.0001 ppm	0.0001 ppm	0.0032 ppm
Concentration per Run 2	0.0012 ppm	0.0004 ppm	0.0046 ppm	0.0014 ppm	-0.0002 ppm	0.0001 ppm	0.0016 ppm
Concentration per Run 3	0.0005 ppm	0.0002 ppm	0.0049 ppm	0.0063 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm
Recovery Percentage 1	11.855 %	-1.350 %	66.908 %	12.309 %	-0.209 %	1.958 %	1.590 %
Concentration RSD	46.4 %	212.6 %	72.9 %	67.7 %	693.8 %	49.6 %	101.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0033 ppm	0.0306 ppm	-0.0008 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0040 ppm	0.0485 ppm	0.0002 ppm
Concentration per Run 2	-0.0001 ppm	-0.0003 ppm	0.0007 ppm	0.0000 ppm	0.0030 ppm	0.0138 ppm	-0.0006 ppm
Concentration per Run 3	0.0002 ppm	-0.0002 ppm	0.0004 ppm	-0.0002 ppm	0.0028 ppm	0.0295 ppm	-0.0020 ppm
Recovery Percentage 1	0.689 %	-0.675 %	3.470 %	-0.415 %	6.543 %	1.224 %	-15.991 %
Concentration RSD	451.9 %	144.7 %	125.5 %	271.8 %	19.8 %	56.9 %	136.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0027 ppm	0.0000 ppm	0.0008 ppm	-0.0100 ppm	-0.0002 ppm	0.0013 ppm	0.0033 ppm
Concentration per Run 1	0.0034 ppm	0.0001 ppm	0.0007 ppm	-0.0049 ppm	-0.0004 ppm	0.0014 ppm	0.0052 ppm
Concentration per Run 2	0.0008 ppm	0.0001 ppm	0.0010 ppm	-0.0089 ppm	0.0004 ppm	0.0020 ppm	0.0032 ppm
Concentration per Run 3	0.0038 ppm	-0.0003 ppm	0.0008 ppm	-0.0162 ppm	-0.0007 ppm	0.0005 ppm	0.0015 ppm
Recovery Percentage 1	2.687 %	-0.421 %	1.693 %	-0.499 %	-0.846 %	12.777 %	6.622 %
Concentration RSD	60.3 %	508.3 %	22.1 %	57.4 %	277.2 %	60.6 %	55.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	-0.0001 ppm	-0.0012 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 1	0.0008 ppm	-0.0007 ppm	-0.0005 ppm	0.0000 ppm	-0.0002 ppm	0.0016 ppm	0.0006 ppm
Concentration per Run 2	0.0015 ppm	-0.0002 ppm	-0.0016 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 3	0.0045 ppm	0.0006 ppm	-0.0015 ppm	0.0002 ppm	-0.0004 ppm	-0.0008 ppm	0.0004 ppm
Recovery Percentage 1	22.603 %	-0.019 %	-2.343 %	1.233 %	-0.857 %	1.774 %	4.655 %
Concentration RSD	85.3 %	728.7 %	53.2 %	93.8 %	452.8 %	327.1 %	16.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	113.5929 %	112.2923 %	111.9722 %	115.0771 %	111.9905 %	112.3872 %
Concentration per Run 1	-0.0001 ppm	113.6828 %	111.8459 %	112.5457 %	114.9201 %	111.8318 %	112.9922 %
Concentration per Run 2	-0.0002 ppm	113.7255 %	112.7480 %	111.8044 %	115.5404 %	112.3786 %	112.3837 %
Concentration per Run 3	-0.0003 ppm	113.3705 %	112.2829 %	111.5666 %	114.7708 %	111.7609 %	111.7855 %
Recovery Percentage 1	-3.796 %						
Concentration RSD	53.5 %	0.2 %	0.4 %	0.5 %	0.4 %	0.3 %	0.5 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454047-07d4 WG1975918
Analysis started at: 9/26/2024 4:23:47 PM
Rack 2
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0015 ppm	200.7098 ppm	-0.0011 ppm	0.0009 ppm	0.4529 ppm	0.0062 ppm	36.0417 ppm
Concentration per Run 1	0.0018 ppm	200.0895 ppm	-0.0002 ppm	0.0019 ppm	0.4512 ppm	0.0062 ppm	35.8995 ppm
Concentration per Run 2	0.0018 ppm	200.6883 ppm	-0.0004 ppm	0.0024 ppm	0.4528 ppm	0.0062 ppm	36.1081 ppm
Concentration per Run 3	0.0010 ppm	201.3517 ppm	-0.0028 ppm	-0.0016 ppm	0.4548 ppm	0.0064 ppm	36.1176 ppm
Concentration RSD	29.6 %	0.3 %	126.9 %	252.6 %	0.4 %	2.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.1966 ppm	3.7873 ppm	0.0012 ppm	158.5409 ppm	49.7536 ppm	0.1607 ppm
Concentration per Run 1	0.0000 ppm	0.1971 ppm	3.7852 ppm	0.0012 ppm	158.1134 ppm	49.4009 ppm	0.1609 ppm
Concentration per Run 2	-0.0001 ppm	0.1969 ppm	3.7980 ppm	0.0017 ppm	158.3432 ppm	49.8252 ppm	0.1609 ppm
Concentration per Run 3	0.0000 ppm	0.1957 ppm	3.7787 ppm	0.0007 ppm	159.1662 ppm	50.0347 ppm	0.1604 ppm
Concentration RSD	268.6 %	0.4 %	0.3 %	43.4 %	0.3 %	0.6 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	289.1653 ppm	1.3527 ppm	-0.0004 ppm	10.1507 ppm	3.0185 ppm	0.0212 ppm	-0.0009 ppm
Concentration per Run 1	288.8630 ppm	1.3446 ppm	-0.0007 ppm	10.1454 ppm	3.0198 ppm	0.0224 ppm	0.0006 ppm
Concentration per Run 2	289.6486 ppm	1.3576 ppm	-0.0006 ppm	10.1126 ppm	3.0197 ppm	0.0219 ppm	-0.0023 ppm
Concentration per Run 3	288.9844 ppm	1.3560 ppm	0.0001 ppm	10.1941 ppm	3.0159 ppm	0.0192 ppm	-0.0009 ppm
Concentration RSD	0.1 %	0.5 %	110.1 %	0.4 %	0.1 %	8.1 %	164.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0038 ppm	0.2339 ppm	0.0063 ppm	0.1330 ppm	9.1782 ppm	0.0088 ppm	0.2364 ppm
Concentration per Run 1	0.0008 ppm	0.2220 ppm	0.0063 ppm	0.1327 ppm	9.1570 ppm	0.0092 ppm	0.2360 ppm
Concentration per Run 2	0.0077 ppm	0.2371 ppm	0.0060 ppm	0.1331 ppm	9.2070 ppm	0.0107 ppm	0.2368 ppm
Concentration per Run 3	0.0030 ppm	0.2428 ppm	0.0066 ppm	0.1334 ppm	9.1706 ppm	0.0066 ppm	0.2365 ppm
Concentration RSD	91.4 %	4.6 %	4.2 %	0.3 %	0.3 %	23.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3429 ppm	106.3279 %	113.9410 %	101.4090 %	107.4010 %	115.3562 %	106.1311 %
Concentration per Run 1	0.3433 ppm	106.5538 %	114.5173 %	100.8997 %	107.6029 %	115.8938 %	105.4306 %
Concentration per Run 2	0.3428 ppm	105.7744 %	114.1303 %	101.7495 %	106.4917 %	115.5567 %	106.4172 %
Concentration per Run 3	0.3425 ppm	106.6556 %	113.1754 %	101.5778 %	108.1083 %	114.6180 %	106.5456 %
Concentration RSD	0.1 %	0.5 %	0.6 %	0.4 %	0.8 %	0.6 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453863-14 WG1975733
Analysis started at: 9/26/2024 4:27:57 PM
Rack 2
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0194 ppm	0.0014 ppm	0.0055 ppm	0.0459 ppm	0.0001 ppm	2.3412 ppm
Concentration per Run 1	0.0002 ppm	0.0102 ppm	0.0007 ppm	0.0066 ppm	0.0458 ppm	0.0001 ppm	2.3309 ppm
Concentration per Run 2	0.0004 ppm	0.0237 ppm	0.0021 ppm	0.0058 ppm	0.0461 ppm	0.0001 ppm	2.3487 ppm
Concentration per Run 3	0.0008 ppm	0.0241 ppm	0.0014 ppm	0.0040 ppm	0.0458 ppm	0.0001 ppm	2.3440 ppm
Concentration RSD	74.4 %	40.9 %	52.5 %	24.9 %	0.4 %	27.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0008 ppm	0.0005 ppm	0.0007 ppm	0.0059 ppm	0.4651 ppm	-0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0009 ppm	0.0061 ppm	0.4662 ppm	-0.0020 ppm
Concentration per Run 2	0.0000 ppm	0.0010 ppm	0.0006 ppm	0.0008 ppm	0.0074 ppm	0.4765 ppm	-0.0008 ppm
Concentration per Run 3	0.0001 ppm	0.0008 ppm	0.0006 ppm	0.0004 ppm	0.0041 ppm	0.4525 ppm	0.0002 ppm
Concentration RSD	124.8 %	31.7 %	27.5 %	34.7 %	27.8 %	2.6 %	129.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5870 ppm	0.0149 ppm	0.0005 ppm	121.4284 ppm	0.0001 ppm	0.0013 ppm	0.0046 ppm
Concentration per Run 1	0.6001 ppm	0.0150 ppm	0.0006 ppm	121.0694 ppm	0.0004 ppm	0.0012 ppm	0.0058 ppm
Concentration per Run 2	0.5816 ppm	0.0148 ppm	0.0000 ppm	121.2076 ppm	0.0003 ppm	0.0016 ppm	0.0046 ppm
Concentration per Run 3	0.5792 ppm	0.0147 ppm	0.0008 ppm	122.0081 ppm	-0.0004 ppm	0.0012 ppm	0.0034 ppm
Concentration RSD	1.9 %	1.2 %	85.1 %	0.4 %	515.3 %	15.8 %	26.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	0.1439 ppm	-0.0021 ppm	0.0081 ppm	0.0011 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 1	0.0016 ppm	0.1462 ppm	-0.0026 ppm	0.0081 ppm	0.0012 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 2	0.0024 ppm	0.1425 ppm	-0.0021 ppm	0.0082 ppm	0.0012 ppm	-0.0005 ppm	0.0003 ppm
Concentration per Run 3	0.0070 ppm	0.1429 ppm	-0.0016 ppm	0.0081 ppm	0.0011 ppm	-0.0009 ppm	0.0002 ppm
Concentration RSD	80.2 %	1.4 %	25.5 %	0.7 %	5.8 %	158.4 %	114.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0016 ppm	110.1186 %	112.3684 %	104.2416 %	109.4740 %	110.9831 %	108.0627 %
Concentration per Run 1	0.0018 ppm	108.5369 %	112.8413 %	103.3438 %	107.7711 %	111.2319 %	107.3247 %
Concentration per Run 2	0.0016 ppm	111.1564 %	112.3709 %	104.9820 %	110.9074 %	111.3226 %	108.8841 %
Concentration per Run 3	0.0015 ppm	110.6626 %	111.8930 %	104.3988 %	109.7435 %	110.3947 %	107.9792 %
Concentration RSD	8.2 %	1.3 %	0.4 %	0.8 %	1.4 %	0.5 %	0.7 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453863-15 WG1975733
Analysis started at: 9/26/2024 4:31:51 PM
Rack 2
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0204 ppm	-0.0004 ppm	0.0035 ppm	0.0817 ppm	0.0000 ppm	2.3283 ppm
Concentration per Run 1	0.0006 ppm	0.0144 ppm	0.0004 ppm	0.0048 ppm	0.0821 ppm	0.0000 ppm	2.3426 ppm
Concentration per Run 2	0.0009 ppm	0.0185 ppm	-0.0012 ppm	0.0040 ppm	0.0813 ppm	0.0000 ppm	2.3217 ppm
Concentration per Run 3	0.0005 ppm	0.0282 ppm	-0.0003 ppm	0.0018 ppm	0.0818 ppm	0.0001 ppm	2.3205 ppm
Concentration RSD	33.7 %	34.8 %	226.1 %	43.3 %	0.5 %	95.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0013 ppm	0.0004 ppm	0.0001 ppm	0.0055 ppm	0.3431 ppm	-0.0007 ppm
Concentration per Run 1	-0.0002 ppm	0.0011 ppm	0.0007 ppm	-0.0003 ppm	0.0038 ppm	0.3369 ppm	0.0006 ppm
Concentration per Run 2	0.0001 ppm	0.0013 ppm	0.0002 ppm	0.0005 ppm	0.0061 ppm	0.3362 ppm	-0.0016 ppm
Concentration per Run 3	0.0000 ppm	0.0016 ppm	0.0004 ppm	0.0002 ppm	0.0064 ppm	0.3563 ppm	-0.0010 ppm
Concentration RSD	415.6 %	20.8 %	58.4 %	280.0 %	26.2 %	3.3 %	162.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.3335 ppm	0.0197 ppm	-0.0003 ppm	117.1974 ppm	-0.0005 ppm	0.0011 ppm	0.0023 ppm
Concentration per Run 1	0.3343 ppm	0.0199 ppm	-0.0003 ppm	117.4992 ppm	-0.0003 ppm	0.0010 ppm	0.0011 ppm
Concentration per Run 2	0.3337 ppm	0.0194 ppm	-0.0001 ppm	117.2920 ppm	-0.0001 ppm	0.0013 ppm	0.0000 ppm
Concentration per Run 3	0.3325 ppm	0.0198 ppm	-0.0005 ppm	116.8008 ppm	-0.0010 ppm	0.0011 ppm	0.0059 ppm
Concentration RSD	0.3 %	1.4 %	68.3 %	0.3 %	102.4 %	13.6 %	135.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0034 ppm	0.1983 ppm	-0.0028 ppm	0.0107 ppm	-0.0001 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0021 ppm	0.1975 ppm	-0.0021 ppm	0.0108 ppm	-0.0003 ppm	-0.0016 ppm	0.0002 ppm
Concentration per Run 2	0.0059 ppm	0.1986 ppm	-0.0027 ppm	0.0107 ppm	-0.0001 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 3	0.0021 ppm	0.1988 ppm	-0.0036 ppm	0.0107 ppm	0.0002 ppm	0.0014 ppm	0.0004 ppm
Concentration RSD	65.7 %	0.3 %	26.8 %	0.8 %	298.0 %	1,196.9 %	131.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0014 ppm	111.8764 %	113.4920 %	105.6268 %	111.2621 %	112.4816 %	109.6229 %
Concentration per Run 1	0.0015 ppm	112.2807 %	112.6274 %	105.8515 %	111.4730 %	111.9708 %	110.0775 %
Concentration per Run 2	0.0013 ppm	112.0244 %	113.6060 %	105.3786 %	111.7056 %	112.7075 %	109.0621 %
Concentration per Run 3	0.0013 ppm	111.3241 %	114.2425 %	105.6503 %	110.6078 %	112.7665 %	109.7291 %
Concentration RSD	8.4 %	0.4 %	0.7 %	0.2 %	0.5 %	0.4 %	0.5 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453869-01 WG1975733
Analysis started at: 9/26/2024 4:35:46 PM
Rack 2
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	0.0109 ppm	0.0067 ppm	0.0113 ppm	0.1978 ppm	0.0000 ppm	41.9668 ppm
Concentration per Run 1	0.0009 ppm	0.0082 ppm	0.0043 ppm	0.0121 ppm	0.1970 ppm	0.0001 ppm	41.9967 ppm
Concentration per Run 2	0.0010 ppm	0.0218 ppm	0.0060 ppm	0.0122 ppm	0.1982 ppm	0.0000 ppm	41.9137 ppm
Concentration per Run 3	0.0007 ppm	0.0028 ppm	0.0097 ppm	0.0095 ppm	0.1984 ppm	0.0001 ppm	41.9900 ppm
Concentration RSD	18.8 %	89.5 %	41.1 %	13.8 %	0.4 %	143.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0029 ppm	0.0002 ppm	0.0006 ppm	6.3401 ppm	0.3577 ppm	-0.0015 ppm
Concentration per Run 1	0.0000 ppm	0.0025 ppm	0.0001 ppm	0.0006 ppm	6.3181 ppm	0.3506 ppm	-0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0032 ppm	0.0003 ppm	0.0005 ppm	6.3417 ppm	0.3650 ppm	-0.0020 ppm
Concentration per Run 3	-0.0002 ppm	0.0030 ppm	0.0003 ppm	0.0007 ppm	6.3605 ppm	0.3576 ppm	-0.0016 ppm
Concentration RSD	61.2 %	11.6 %	38.0 %	17.6 %	0.3 %	2.0 %	40.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.6182 ppm	0.2289 ppm	0.0008 ppm	120.3380 ppm	0.0222 ppm	0.2176 ppm	0.0053 ppm
Concentration per Run 1	1.6224 ppm	0.2297 ppm	0.0010 ppm	119.3860 ppm	0.0225 ppm	0.2178 ppm	0.0040 ppm
Concentration per Run 2	1.6183 ppm	0.2286 ppm	0.0010 ppm	120.7894 ppm	0.0221 ppm	0.2162 ppm	0.0054 ppm
Concentration per Run 3	1.6138 ppm	0.2284 ppm	0.0004 ppm	120.8385 ppm	0.0220 ppm	0.2188 ppm	0.0066 ppm
Concentration RSD	0.3 %	0.3 %	39.7 %	0.7 %	1.0 %	0.6 %	24.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0037 ppm	0.3258 ppm	-0.0014 ppm	0.0935 ppm	-0.0004 ppm	-0.0008 ppm	0.0011 ppm
Concentration per Run 1	0.0042 ppm	0.3252 ppm	-0.0013 ppm	0.0931 ppm	-0.0003 ppm	-0.0005 ppm	0.0010 ppm
Concentration per Run 2	0.0031 ppm	0.3253 ppm	-0.0023 ppm	0.0936 ppm	-0.0004 ppm	-0.0013 ppm	0.0009 ppm
Concentration per Run 3	0.0038 ppm	0.3268 ppm	-0.0007 ppm	0.0939 ppm	-0.0004 ppm	-0.0005 ppm	0.0013 ppm
Concentration RSD	15.2 %	0.3 %	55.9 %	0.4 %	9.9 %	58.7 %	16.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4465 ppm	110.8746 %	113.1246 %	104.5147 %	109.5224 %	112.0394 %	108.9360 %
Concentration per Run 1	0.4471 ppm	110.2386 %	113.1868 %	104.3260 %	108.6924 %	112.0916 %	108.8516 %
Concentration per Run 2	0.4474 ppm	110.8562 %	113.9395 %	105.0839 %	109.3306 %	113.0155 %	109.2857 %
Concentration per Run 3	0.4449 ppm	111.5289 %	112.2474 %	104.1342 %	110.5440 %	111.0111 %	108.6707 %
Concentration RSD	0.3 %	0.6 %	0.7 %	0.5 %	0.9 %	0.9 %	0.3 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453869-02 WG1975733
Analysis started at: 9/26/2024 4:39:40 PM
Rack 2
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0505 ppm	0.0009 ppm	0.0136 ppm	0.0496 ppm	0.0001 ppm	28.0402 ppm
Concentration per Run 1	-0.0002 ppm	0.0475 ppm	0.0021 ppm	0.0139 ppm	0.0496 ppm	0.0000 ppm	28.0127 ppm
Concentration per Run 2	0.0008 ppm	0.0538 ppm	-0.0013 ppm	0.0112 ppm	0.0495 ppm	0.0001 ppm	28.1147 ppm
Concentration per Run 3	0.0006 ppm	0.0501 ppm	0.0019 ppm	0.0156 ppm	0.0495 ppm	0.0001 ppm	27.9933 ppm
Concentration RSD	130.2 %	6.3 %	205.2 %	16.2 %	0.1 %	63.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0022 ppm	0.0005 ppm	0.0028 ppm	0.2588 ppm	0.7077 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	0.0014 ppm	0.0006 ppm	0.0029 ppm	0.2584 ppm	0.7182 ppm	0.0005 ppm
Concentration per Run 2	0.0001 ppm	0.0026 ppm	0.0005 ppm	0.0028 ppm	0.2590 ppm	0.6947 ppm	-0.0004 ppm
Concentration per Run 3	0.0002 ppm	0.0024 ppm	0.0006 ppm	0.0029 ppm	0.2590 ppm	0.7100 ppm	-0.0001 ppm
Concentration RSD	27.7 %	28.8 %	12.1 %	0.8 %	0.1 %	1.7 %	93,186.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.6143 ppm	0.4271 ppm	-0.0001 ppm	121.2270 ppm	0.0066 ppm	0.0194 ppm	0.0039 ppm
Concentration per Run 1	1.6227 ppm	0.4272 ppm	-0.0006 ppm	121.1431 ppm	0.0070 ppm	0.0180 ppm	0.0052 ppm
Concentration per Run 2	1.6166 ppm	0.4292 ppm	0.0003 ppm	121.5091 ppm	0.0061 ppm	0.0203 ppm	0.0025 ppm
Concentration per Run 3	1.6037 ppm	0.4250 ppm	0.0000 ppm	121.0288 ppm	0.0065 ppm	0.0199 ppm	0.0041 ppm
Concentration RSD	0.6 %	0.5 %	371.6 %	0.2 %	7.0 %	6.2 %	34.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0060 ppm	0.6985 ppm	-0.0023 ppm	0.0700 ppm	-0.0004 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.0017 ppm	0.7014 ppm	-0.0028 ppm	0.0703 ppm	-0.0008 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 2	0.0067 ppm	0.6967 ppm	-0.0019 ppm	0.0701 ppm	0.0001 ppm	-0.0007 ppm	0.0005 ppm
Concentration per Run 3	0.0094 ppm	0.6975 ppm	-0.0023 ppm	0.0695 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm
Concentration RSD	65.5 %	0.4 %	19.7 %	0.6 %	126.1 %	330.7 %	77.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0450 ppm	110.5671 %	111.0476 %	104.8063 %	109.9878 %	110.1932 %	109.1928 %
Concentration per Run 1	0.0455 ppm	110.2250 %	111.9331 %	105.0605 %	109.3207 %	111.0849 %	109.0295 %
Concentration per Run 2	0.0448 ppm	111.7347 %	110.1168 %	103.7640 %	111.0247 %	109.5359 %	108.4648 %
Concentration per Run 3	0.0447 ppm	109.7415 %	111.0930 %	105.5942 %	109.6180 %	109.9589 %	110.0842 %
Concentration RSD	0.9 %	0.9 %	0.8 %	0.9 %	0.8 %	0.7 %	0.8 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453869-03 WG1975733
Analysis started at: 9/26/2024 4:43:35 PM
Rack 2
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	0.0324 ppm	0.0014 ppm	0.0118 ppm	0.0482 ppm	0.0001 ppm	29.4451 ppm
Concentration per Run 1	0.0012 ppm	0.0366 ppm	0.0006 ppm	0.0117 ppm	0.0484 ppm	0.0001 ppm	29.4922 ppm
Concentration per Run 2	0.0006 ppm	0.0228 ppm	0.0008 ppm	0.0118 ppm	0.0480 ppm	0.0001 ppm	29.4722 ppm
Concentration per Run 3	0.0004 ppm	0.0376 ppm	0.0028 ppm	0.0119 ppm	0.0482 ppm	0.0001 ppm	29.3708 ppm
Concentration RSD	54.4 %	25.6 %	86.1 %	1.1 %	0.4 %	40.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0025 ppm	0.0008 ppm	0.0025 ppm	0.2273 ppm	0.7329 ppm	0.0002 ppm
Concentration per Run 1	0.0003 ppm	0.0019 ppm	0.0004 ppm	0.0025 ppm	0.2269 ppm	0.7693 ppm	0.0017 ppm
Concentration per Run 2	0.0003 ppm	0.0029 ppm	0.0011 ppm	0.0026 ppm	0.2263 ppm	0.7369 ppm	-0.0004 ppm
Concentration per Run 3	0.0002 ppm	0.0026 ppm	0.0009 ppm	0.0025 ppm	0.2286 ppm	0.6926 ppm	-0.0007 ppm
Concentration RSD	29.7 %	19.1 %	43.2 %	2.1 %	0.5 %	5.2 %	662.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.1591 ppm	0.3859 ppm	0.0000 ppm	120.8510 ppm	0.0043 ppm	0.0405 ppm	0.0002 ppm
Concentration per Run 1	1.1571 ppm	0.3872 ppm	0.0003 ppm	120.9048 ppm	0.0034 ppm	0.0420 ppm	-0.0011 ppm
Concentration per Run 2	1.1545 ppm	0.3843 ppm	0.0000 ppm	120.9363 ppm	0.0042 ppm	0.0402 ppm	0.0001 ppm
Concentration per Run 3	1.1655 ppm	0.3863 ppm	-0.0004 ppm	120.7118 ppm	0.0052 ppm	0.0394 ppm	0.0016 ppm
Concentration RSD	0.5 %	0.4 %	5,327.7 %	0.1 %	20.1 %	3.3 %	640.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0043 ppm	0.5288 ppm	-0.0016 ppm	0.0703 ppm	-0.0004 ppm	-0.0016 ppm	0.0004 ppm
Concentration per Run 1	0.0036 ppm	0.5300 ppm	-0.0019 ppm	0.0702 ppm	-0.0004 ppm	-0.0009 ppm	0.0004 ppm
Concentration per Run 2	0.0031 ppm	0.5227 ppm	-0.0017 ppm	0.0702 ppm	-0.0005 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0064 ppm	0.5339 ppm	-0.0013 ppm	0.0704 ppm	-0.0002 ppm	-0.0041 ppm	0.0004 ppm
Concentration RSD	40.8 %	1.1 %	20.0 %	0.1 %	48.6 %	147.6 %	14.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0446 ppm	112.1220 %	113.5375 %	105.3136 %	111.0353 %	112.3946 %	109.4110 %
Concentration per Run 1	0.0445 ppm	112.5543 %	112.5082 %	105.5721 %	111.6144 %	111.4831 %	109.8788 %
Concentration per Run 2	0.0447 ppm	111.8018 %	114.0255 %	104.7896 %	110.7692 %	113.0140 %	108.6475 %
Concentration per Run 3	0.0445 ppm	112.0101 %	114.0787 %	105.5789 %	110.7224 %	112.6865 %	109.7068 %
Concentration RSD	0.2 %	0.3 %	0.8 %	0.4 %	0.5 %	0.7 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454077-01 WG1975733
Analysis started at: 9/26/2024 4:47:29 PM
Rack 2
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	0.0287 ppm	0.0017 ppm	0.0035 ppm	0.0073 ppm	0.0000 ppm	0.6694 ppm
Concentration per Run 1	0.0008 ppm	0.0318 ppm	0.0000 ppm	0.0030 ppm	0.0075 ppm	0.0000 ppm	0.6681 ppm
Concentration per Run 2	0.0011 ppm	0.0242 ppm	0.0022 ppm	0.0035 ppm	0.0074 ppm	0.0000 ppm	0.6671 ppm
Concentration per Run 3	0.0004 ppm	0.0302 ppm	0.0030 ppm	0.0039 ppm	0.0071 ppm	0.0001 ppm	0.6729 ppm
Concentration RSD	43.6 %	14.0 %	91.2 %	13.2 %	2.4 %	8.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0010 ppm	0.0005 ppm	0.0014 ppm	0.0192 ppm	0.2602 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	0.0009 ppm	0.0005 ppm	0.0015 ppm	0.0199 ppm	0.2406 ppm	0.0002 ppm
Concentration per Run 2	0.0004 ppm	0.0011 ppm	0.0004 ppm	0.0012 ppm	0.0187 ppm	0.2669 ppm	-0.0007 ppm
Concentration per Run 3	0.0003 ppm	0.0011 ppm	0.0004 ppm	0.0015 ppm	0.0190 ppm	0.2731 ppm	0.0004 ppm
Concentration RSD	23.0 %	11.9 %	8.0 %	12.8 %	3.5 %	6.6 %	7,687.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1084 ppm	0.0137 ppm	-0.0003 ppm	116.0917 ppm	0.0013 ppm	0.0023 ppm	0.0032 ppm
Concentration per Run 1	0.1112 ppm	0.0134 ppm	-0.0007 ppm	116.2429 ppm	0.0009 ppm	0.0030 ppm	-0.0019 ppm
Concentration per Run 2	0.1049 ppm	0.0140 ppm	-0.0001 ppm	115.6440 ppm	0.0018 ppm	0.0023 ppm	0.0031 ppm
Concentration per Run 3	0.1092 ppm	0.0139 ppm	0.0000 ppm	116.3884 ppm	0.0012 ppm	0.0015 ppm	0.0084 ppm
Concentration RSD	3.0 %	2.5 %	136.5 %	0.3 %	36.2 %	31.8 %	159.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0039 ppm	0.1028 ppm	-0.0010 ppm	0.0051 ppm	-0.0005 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.0052 ppm	0.1021 ppm	-0.0028 ppm	0.0050 ppm	-0.0005 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 2	0.0013 ppm	0.1042 ppm	0.0008 ppm	0.0049 ppm	-0.0003 ppm	-0.0008 ppm	0.0003 ppm
Concentration per Run 3	0.0054 ppm	0.1022 ppm	-0.0009 ppm	0.0052 ppm	-0.0007 ppm	-0.0002 ppm	0.0004 ppm
Concentration RSD	59.2 %	1.1 %	186.4 %	3.1 %	39.0 %	1,425.7 %	26.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0151 ppm	112.2140 %	113.7883 %	107.0144 %	111.2141 %	112.3651 %	110.5966 %
Concentration per Run 1	0.0151 ppm	112.5559 %	113.4956 %	107.2157 %	110.9075 %	112.0961 %	110.8452 %
Concentration per Run 2	0.0153 ppm	111.3686 %	114.6618 %	106.9839 %	110.7684 %	113.2640 %	110.7019 %
Concentration per Run 3	0.0148 ppm	112.7176 %	113.2076 %	106.8435 %	111.9662 %	111.7353 %	110.2427 %
Concentration RSD	1.7 %	0.7 %	0.7 %	0.2 %	0.6 %	0.7 %	0.3 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: L2453909-01 WG1975733
Analysis started at: 9/26/2024 4:51:24 PM
Rack 2
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0267 ppm	0.2742 ppm	0.0019 ppm	0.1688 ppm	0.0210 ppm	0.0004 ppm	1.7105 ppm
Concentration per Run 1	0.0262 ppm	0.2772 ppm	0.0004 ppm	0.1675 ppm	0.0210 ppm	0.0004 ppm	1.7153 ppm
Concentration per Run 2	0.0268 ppm	0.2708 ppm	0.0017 ppm	0.1684 ppm	0.0210 ppm	0.0004 ppm	1.7111 ppm
Concentration per Run 3	0.0272 ppm	0.2745 ppm	0.0035 ppm	0.1703 ppm	0.0211 ppm	0.0004 ppm	1.7050 ppm
Concentration RSD	1.8 %	1.2 %	84.1 %	0.8 %	0.2 %	3.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0024 ppm	0.0022 ppm	0.0023 ppm	0.6212 ppm	0.0131 ppm	2.4590 ppm	0.0798 ppm
Concentration per Run 1	0.0022 ppm	0.0025 ppm	0.0027 ppm	0.6188 ppm	0.0137 ppm	2.4533 ppm	0.0786 ppm
Concentration per Run 2	0.0024 ppm	0.0019 ppm	0.0015 ppm	0.6221 ppm	0.0133 ppm	2.4688 ppm	0.0815 ppm
Concentration per Run 3	0.0026 ppm	0.0022 ppm	0.0028 ppm	0.6228 ppm	0.0123 ppm	2.4549 ppm	0.0793 ppm
Concentration RSD	7.4 %	13.2 %	31.4 %	0.3 %	5.5 %	0.3 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.3075 ppm	0.1824 ppm	0.0011 ppm	121.3392 ppm	0.0173 ppm	0.0192 ppm	0.0043 ppm
Concentration per Run 1	0.3075 ppm	0.1834 ppm	0.0018 ppm	121.2890 ppm	0.0173 ppm	0.0192 ppm	0.0071 ppm
Concentration per Run 2	0.3087 ppm	0.1815 ppm	0.0008 ppm	121.5634 ppm	0.0173 ppm	0.0205 ppm	0.0039 ppm
Concentration per Run 3	0.3063 ppm	0.1823 ppm	0.0007 ppm	121.1651 ppm	0.0173 ppm	0.0179 ppm	0.0020 ppm
Concentration RSD	0.4 %	0.5 %	53.1 %	0.2 %	0.1 %	6.6 %	58.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0031 ppm	0.3524 ppm	0.0004 ppm	0.0216 ppm	0.0007 ppm	-0.0006 ppm	0.0084 ppm
Concentration per Run 1	-0.0019 ppm	0.3514 ppm	0.0016 ppm	0.0217 ppm	0.0006 ppm	-0.0009 ppm	0.0084 ppm
Concentration per Run 2	0.0076 ppm	0.3559 ppm	0.0000 ppm	0.0215 ppm	0.0009 ppm	-0.0004 ppm	0.0088 ppm
Concentration per Run 3	0.0037 ppm	0.3499 ppm	-0.0004 ppm	0.0215 ppm	0.0006 ppm	-0.0004 ppm	0.0081 ppm
Concentration RSD	152.5 %	0.9 %	264.9 %	0.5 %	23.3 %	52.6 %	4.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3647 ppm	113.9199 %	115.3258 %	108.5856 %	113.0956 %	114.1466 %	112.5468 %
Concentration per Run 1	0.3632 ppm	114.6741 %	116.3339 %	108.8982 %	113.6521 %	115.8088 %	112.7588 %
Concentration per Run 2	0.3659 ppm	113.2787 %	115.1044 %	109.2356 %	112.6294 %	113.7666 %	113.0533 %
Concentration per Run 3	0.3651 ppm	113.8070 %	114.5392 %	107.6229 %	113.0053 %	112.8644 %	111.8283 %
Concentration RSD	0.4 %	0.6 %	0.8 %	0.8 %	0.5 %	1.3 %	0.6 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: L2453909-02 WG1975733
Analysis started at: 9/26/2024 4:55:19 PM
Rack 2
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0686 ppm	0.3138 ppm	0.0004 ppm	0.8299 ppm	0.0047 ppm	0.0001 ppm	2.9646 ppm
Concentration per Run 1	0.0685 ppm	0.3097 ppm	0.0000 ppm	0.8273 ppm	0.0046 ppm	0.0001 ppm	2.9627 ppm
Concentration per Run 2	0.0687 ppm	0.3193 ppm	-0.0002 ppm	0.8343 ppm	0.0046 ppm	0.0001 ppm	2.9692 ppm
Concentration per Run 3	0.0686 ppm	0.3124 ppm	0.0013 ppm	0.8280 ppm	0.0048 ppm	0.0001 ppm	2.9621 ppm
Concentration RSD	0.2 %	1.6 %	214.0 %	0.5 %	2.5 %	8.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0045 ppm	0.0109 ppm	0.6094 ppm	0.0249 ppm	5.7248 ppm	0.0177 ppm
Concentration per Run 1	0.0016 ppm	0.0045 ppm	0.0108 ppm	0.6095 ppm	0.0258 ppm	5.7338 ppm	0.0174 ppm
Concentration per Run 2	0.0018 ppm	0.0042 ppm	0.0110 ppm	0.6093 ppm	0.0229 ppm	5.7522 ppm	0.0180 ppm
Concentration per Run 3	0.0016 ppm	0.0048 ppm	0.0109 ppm	0.6093 ppm	0.0259 ppm	5.6884 ppm	0.0176 ppm
Concentration RSD	6.1 %	6.6 %	0.8 %	0.0 %	6.8 %	0.6 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.6921 ppm	0.0438 ppm	0.0006 ppm	115.8706 ppm	0.4129 ppm	0.0269 ppm	0.0067 ppm
Concentration per Run 1	0.6916 ppm	0.0438 ppm	0.0007 ppm	115.9168 ppm	0.4152 ppm	0.0269 ppm	0.0068 ppm
Concentration per Run 2	0.6935 ppm	0.0436 ppm	0.0006 ppm	115.9198 ppm	0.4115 ppm	0.0265 ppm	0.0096 ppm
Concentration per Run 3	0.6911 ppm	0.0438 ppm	0.0006 ppm	115.7750 ppm	0.4119 ppm	0.0271 ppm	0.0038 ppm
Concentration RSD	0.2 %	0.3 %	6.2 %	0.1 %	0.5 %	1.1 %	42.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0033 ppm	0.1258 ppm	0.0359 ppm	0.0145 ppm	-0.0001 ppm	0.0006 ppm	0.0008 ppm
Concentration per Run 1	0.0016 ppm	0.1278 ppm	0.0362 ppm	0.0145 ppm	-0.0003 ppm	0.0011 ppm	0.0010 ppm
Concentration per Run 2	0.0042 ppm	0.1249 ppm	0.0364 ppm	0.0145 ppm	-0.0001 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 3	0.0040 ppm	0.1248 ppm	0.0351 ppm	0.0144 ppm	0.0000 ppm	0.0005 ppm	0.0006 ppm
Concentration RSD	45.2 %	1.3 %	1.9 %	0.4 %	101.8 %	90.6 %	26.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6370 ppm	113.6361 %	114.6127 %	107.9767 %	112.4233 %	113.3214 %	111.2249 %
Concentration per Run 1	0.6384 ppm	112.6486 %	114.8870 %	108.6944 %	111.6451 %	113.8841 %	111.7301 %
Concentration per Run 2	0.6379 ppm	113.4091 %	113.8658 %	107.5291 %	111.9542 %	112.4635 %	110.7723 %
Concentration per Run 3	0.6348 ppm	114.8505 %	115.0852 %	107.7066 %	113.6705 %	113.6168 %	111.1723 %
Concentration RSD	0.3 %	1.0 %	0.6 %	0.6 %	1.0 %	0.7 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454008-01 WG1975733
Analysis started at: 9/26/2024 4:59:13 PM
Rack 2
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0385 ppm	0.0014 ppm	0.0070 ppm	0.0644 ppm	0.0000 ppm	6.7206 ppm
Concentration per Run 1	0.0002 ppm	0.0420 ppm	0.0003 ppm	0.0073 ppm	0.0658 ppm	0.0000 ppm	6.8464 ppm
Concentration per Run 2	0.0003 ppm	0.0376 ppm	0.0025 ppm	0.0071 ppm	0.0646 ppm	0.0000 ppm	6.7380 ppm
Concentration per Run 3	0.0010 ppm	0.0359 ppm	0.0013 ppm	0.0066 ppm	0.0626 ppm	0.0000 ppm	6.5774 ppm
Concentration RSD	75.8 %	8.3 %	79.6 %	4.7 %	2.5 %	15.9 %	2.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0005 ppm	0.0005 ppm	0.0020 ppm	0.0065 ppm	0.3160 ppm	-0.0020 ppm
Concentration per Run 1	0.0002 ppm	0.0009 ppm	0.0005 ppm	0.0020 ppm	0.0062 ppm	0.3290 ppm	-0.0019 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0016 ppm	0.0074 ppm	0.3080 ppm	-0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0005 ppm	0.0024 ppm	0.0059 ppm	0.3111 ppm	-0.0024 ppm
Concentration RSD	69.4 %	98.7 %	4.7 %	19.3 %	12.5 %	3.6 %	18.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1635 ppm	0.0078 ppm	-0.0001 ppm	119.7900 ppm	-0.0002 ppm	0.2988 ppm	0.0059 ppm
Concentration per Run 1	0.1617 ppm	0.0080 ppm	0.0002 ppm	121.9860 ppm	-0.0002 ppm	0.3003 ppm	0.0040 ppm
Concentration per Run 2	0.1636 ppm	0.0077 ppm	0.0002 ppm	119.9759 ppm	0.0001 ppm	0.2996 ppm	0.0070 ppm
Concentration per Run 3	0.1653 ppm	0.0076 ppm	-0.0007 ppm	117.4081 ppm	-0.0005 ppm	0.2964 ppm	0.0066 ppm
Concentration RSD	1.1 %	2.5 %	581.9 %	1.9 %	131.3 %	0.7 %	28.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	0.1386 ppm	-0.0018 ppm	0.0082 ppm	-0.0006 ppm	-0.0003 ppm	0.0004 ppm
Concentration per Run 1	0.0033 ppm	0.1390 ppm	-0.0022 ppm	0.0084 ppm	-0.0003 ppm	-0.0004 ppm	0.0004 ppm
Concentration per Run 2	0.0016 ppm	0.1343 ppm	-0.0022 ppm	0.0082 ppm	-0.0007 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0010 ppm	0.1426 ppm	-0.0010 ppm	0.0082 ppm	-0.0006 ppm	-0.0009 ppm	0.0003 ppm
Concentration RSD	60.4 %	3.0 %	37.2 %	1.6 %	37.7 %	228.9 %	21.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0177 ppm	112.6069 %	111.0358 %	106.0090 %	111.4608 %	109.7705 %	109.7996 %
Concentration per Run 1	0.0176 ppm	111.7798 %	108.8990 %	105.6335 %	110.8132 %	107.9512 %	108.9640 %
Concentration per Run 2	0.0178 ppm	112.9764 %	111.2986 %	106.2171 %	111.8111 %	109.6172 %	110.4461 %
Concentration per Run 3	0.0177 ppm	113.0646 %	112.9099 %	106.1764 %	111.7580 %	111.7431 %	109.9886 %
Concentration RSD	0.5 %	0.6 %	1.8 %	0.3 %	0.5 %	1.7 %	0.7 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 5:03:08 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4761 ppm	0.4338 ppm	0.4506 ppm	0.4589 ppm	0.4578 ppm	0.4669 ppm	0.4459 ppm
Concentration per Run 1	0.4741 ppm	0.4340 ppm	0.4492 ppm	0.4577 ppm	0.4568 ppm	0.4660 ppm	0.4486 ppm
Concentration per Run 2	0.4771 ppm	0.4350 ppm	0.4481 ppm	0.4577 ppm	0.4578 ppm	0.4668 ppm	0.4438 ppm
Concentration per Run 3	0.4770 ppm	0.4325 ppm	0.4544 ppm	0.4612 ppm	0.4587 ppm	0.4681 ppm	0.4451 ppm
Recovery Percentage 1	95.216 %	86.763 %	90.116 %	91.774 %	91.552 %	93.388 %	89.173 %
Concentration RSD	0.4 %	0.3 %	0.7 %	0.4 %	0.2 %	0.2 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4723 ppm	0.4796 ppm	0.4559 ppm	0.4565 ppm	0.4577 ppm	4.7589 ppm	0.4495 ppm
Concentration per Run 1	0.4700 ppm	0.4776 ppm	0.4536 ppm	0.4562 ppm	0.4551 ppm	4.7496 ppm	0.4488 ppm
Concentration per Run 2	0.4732 ppm	0.4804 ppm	0.4582 ppm	0.4569 ppm	0.4616 ppm	4.7670 ppm	0.4498 ppm
Concentration per Run 3	0.4739 ppm	0.4808 ppm	0.4559 ppm	0.4564 ppm	0.4565 ppm	4.7602 ppm	0.4500 ppm
Recovery Percentage 1	94.470 %	95.921 %	91.177 %	91.298 %	91.542 %	95.179 %	89.904 %
Concentration RSD	0.4 %	0.4 %	0.5 %	0.1 %	0.8 %	0.2 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4536 ppm	0.4443 ppm	0.4519 ppm	9.1036 ppm	0.4680 ppm	0.4672 ppm	0.4753 ppm
Concentration per Run 1	0.4517 ppm	0.4464 ppm	0.4471 ppm	9.0751 ppm	0.4647 ppm	0.4683 ppm	0.4701 ppm
Concentration per Run 2	0.4537 ppm	0.4424 ppm	0.4539 ppm	9.1177 ppm	0.4705 ppm	0.4657 ppm	0.4756 ppm
Concentration per Run 3	0.4554 ppm	0.4440 ppm	0.4546 ppm	9.1180 ppm	0.4689 ppm	0.4674 ppm	0.4802 ppm
Recovery Percentage 1	90.714 %	88.853 %	90.373 %	91.036 %	93.603 %	93.430 %	95.058 %
Concentration RSD	0.4 %	0.5 %	0.9 %	0.3 %	0.6 %	0.3 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4693 ppm	5.0332 ppm	0.4441 ppm	0.4315 ppm	0.4625 ppm	0.4640 ppm	0.4570 ppm
Concentration per Run 1	0.4721 ppm	5.0078 ppm	0.4460 ppm	0.4284 ppm	0.4601 ppm	0.4637 ppm	0.4550 ppm
Concentration per Run 2	0.4645 ppm	5.0535 ppm	0.4442 ppm	0.4332 ppm	0.4639 ppm	0.4621 ppm	0.4578 ppm
Concentration per Run 3	0.4714 ppm	5.0383 ppm	0.4422 ppm	0.4330 ppm	0.4634 ppm	0.4662 ppm	0.4581 ppm
Recovery Percentage 1	93.867 %	95.870 %	88.828 %	86.306 %	92.494 %	92.799 %	91.392 %
Concentration RSD	0.9 %	0.5 %	0.4 %	0.6 %	0.5 %	0.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4714 ppm	116.1769 %	115.6088 %	113.9712 %	115.3530 %	114.1158 %	113.7589 %
Concentration per Run 1	0.4678 ppm	116.5263 %	115.5863 %	113.3442 %	115.6649 %	114.2223 %	113.2233 %
Concentration per Run 2	0.4735 ppm	116.1150 %	115.5526 %	114.1250 %	115.4898 %	113.9266 %	113.8981 %
Concentration per Run 3	0.4728 ppm	115.8893 %	115.6874 %	114.4442 %	114.9042 %	114.1985 %	114.1552 %
Recovery Percentage 1	94.279 %						
Concentration RSD	0.7 %	0.3 %	0.1 %	0.5 %	0.3 %	0.1 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 5:07:03 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	-0.0061 ppm	0.0002 ppm	0.0021 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	0.0004 ppm	-0.0165 ppm	0.0010 ppm	0.0027 ppm	0.0001 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 2	0.0009 ppm	-0.0009 ppm	-0.0006 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 3	0.0005 ppm	-0.0009 ppm	0.0001 ppm	0.0030 ppm	0.0001 ppm	0.0000 ppm	0.0028 ppm
Recovery Percentage 1	8.551 %	-6.097 %	4.062 %	6.984 %	0.300 %	0.431 %	-0.148 %
Concentration RSD	39.1 %	148.0 %	393.7 %	63.9 %	232.1 %	188.8 %	1,752.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0297 ppm	-0.0015 ppm
Concentration per Run 1	0.0000 ppm	0.0008 ppm	0.0004 ppm	0.0001 ppm	-0.0005 ppm	0.0418 ppm	0.0002 ppm
Concentration per Run 2	-0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0357 ppm	-0.0021 ppm
Concentration per Run 3	0.0000 ppm	0.0016 ppm	0.0005 ppm	0.0000 ppm	0.0006 ppm	0.0115 ppm	-0.0024 ppm
Recovery Percentage 1	-0.891 %	3.655 %	2.580 %	0.299 %	0.263 %	1.186 %	-29.025 %
Concentration RSD	103.3 %	125.9 %	152.7 %	209.9 %	452.9 %	54.0 %	101.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0018 ppm	0.0001 ppm	0.0007 ppm	-0.0023 ppm	-0.0002 ppm	0.0012 ppm	0.0034 ppm
Concentration per Run 1	0.0027 ppm	0.0002 ppm	0.0011 ppm	0.0022 ppm	-0.0009 ppm	0.0015 ppm	0.0004 ppm
Concentration per Run 2	0.0019 ppm	-0.0001 ppm	0.0003 ppm	-0.0040 ppm	0.0003 ppm	0.0015 ppm	0.0073 ppm
Concentration per Run 3	0.0008 ppm	0.0002 ppm	0.0006 ppm	-0.0050 ppm	0.0001 ppm	0.0006 ppm	0.0026 ppm
Recovery Percentage 1	1.807 %	1.195 %	1.336 %	-0.114 %	-0.686 %	12.141 %	6.796 %
Concentration RSD	51.6 %	145.7 %	58.4 %	170.1 %	353.1 %	43.1 %	103.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0041 ppm	-0.0022 ppm	-0.0005 ppm	0.0000 ppm	-0.0005 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 1	0.0063 ppm	-0.0015 ppm	0.0007 ppm	-0.0001 ppm	-0.0006 ppm	0.0011 ppm	-0.0002 ppm
Concentration per Run 2	0.0058 ppm	-0.0032 ppm	-0.0015 ppm	0.0001 ppm	-0.0004 ppm	-0.0003 ppm	0.0004 ppm
Concentration per Run 3	0.0004 ppm	-0.0021 ppm	-0.0006 ppm	-0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0005 ppm
Recovery Percentage 1	41.451 %	-0.449 %	-0.993 %	-0.097 %	-4.903 %	1.584 %	2.287 %
Concentration RSD	78.8 %	38.9 %	221.3 %	1,085.3 %	19.1 %	217.1 %	170.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	112.8515 %	112.9256 %	112.5865 %	113.9151 %	112.7037 %	112.6624 %
Concentration per Run 1	0.0000 ppm	113.4148 %	113.5881 %	112.0052 %	114.8718 %	113.4505 %	111.7975 %
Concentration per Run 2	-0.0001 ppm	112.3575 %	112.9674 %	111.7509 %	113.5051 %	112.6685 %	112.0598 %
Concentration per Run 3	0.0002 ppm	112.7822 %	112.2212 %	114.0033 %	113.3684 %	111.9921 %	114.1299 %
Recovery Percentage 1	0.576 %						
Concentration RSD	495.7 %	0.5 %	0.6 %	1.1 %	0.7 %	0.6 %	1.1 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 5:12:37 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4808 ppm	0.4420 ppm	0.4651 ppm	0.4739 ppm	0.4632 ppm	0.4771 ppm	0.4541 ppm
Concentration per Run 1	0.4792 ppm	0.4322 ppm	0.4639 ppm	0.4730 ppm	0.4623 ppm	0.4763 ppm	0.4506 ppm
Concentration per Run 2	0.4809 ppm	0.4421 ppm	0.4660 ppm	0.4726 ppm	0.4635 ppm	0.4768 ppm	0.4542 ppm
Concentration per Run 3	0.4823 ppm	0.4517 ppm	0.4655 ppm	0.4762 ppm	0.4637 ppm	0.4783 ppm	0.4574 ppm
Recovery Percentage 1	96.158 %	88.398 %	93.029 %	94.790 %	92.634 %	95.421 %	90.813 %
Concentration RSD	0.3 %	2.2 %	0.2 %	0.4 %	0.2 %	0.2 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4872 ppm	0.4921 ppm	0.4673 ppm	0.4693 ppm	0.4695 ppm	4.8284 ppm	0.4500 ppm
Concentration per Run 1	0.4903 ppm	0.4935 ppm	0.4643 ppm	0.4699 ppm	0.4722 ppm	4.8112 ppm	0.4502 ppm
Concentration per Run 2	0.4873 ppm	0.4917 ppm	0.4674 ppm	0.4698 ppm	0.4680 ppm	4.8572 ppm	0.4500 ppm
Concentration per Run 3	0.4840 ppm	0.4913 ppm	0.4701 ppm	0.4684 ppm	0.4682 ppm	4.8168 ppm	0.4499 ppm
Recovery Percentage 1	97.443 %	98.426 %	93.457 %	93.869 %	93.894 %	96.567 %	90.000 %
Concentration RSD	0.6 %	0.2 %	0.6 %	0.2 %	0.5 %	0.5 %	0.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4690 ppm	0.4542 ppm	0.4672 ppm	9.2001 ppm	0.4803 ppm	0.4764 ppm	0.4928 ppm
Concentration per Run 1	0.4688 ppm	0.4547 ppm	0.4642 ppm	9.2031 ppm	0.4801 ppm	0.4754 ppm	0.4980 ppm
Concentration per Run 2	0.4720 ppm	0.4537 ppm	0.4691 ppm	9.1693 ppm	0.4795 ppm	0.4770 ppm	0.4936 ppm
Concentration per Run 3	0.4661 ppm	0.4543 ppm	0.4684 ppm	9.2279 ppm	0.4813 ppm	0.4767 ppm	0.4868 ppm
Recovery Percentage 1	93.792 %	90.849 %	93.446 %	92.001 %	96.064 %	95.272 %	98.563 %
Concentration RSD	0.6 %	0.1 %	0.6 %	0.3 %	0.2 %	0.2 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4784 ppm	5.2009 ppm	0.4620 ppm	0.4434 ppm	0.4722 ppm	0.4703 ppm	0.4681 ppm
Concentration per Run 1	0.4799 ppm	5.2004 ppm	0.4605 ppm	0.4438 ppm	0.4702 ppm	0.4704 ppm	0.4687 ppm
Concentration per Run 2	0.4798 ppm	5.2070 ppm	0.4613 ppm	0.4432 ppm	0.4721 ppm	0.4692 ppm	0.4677 ppm
Concentration per Run 3	0.4756 ppm	5.1953 ppm	0.4642 ppm	0.4432 ppm	0.4742 ppm	0.4714 ppm	0.4679 ppm
Recovery Percentage 1	95.686 %	99.065 %	92.406 %	88.685 %	94.439 %	94.069 %	93.618 %
Concentration RSD	0.5 %	0.1 %	0.4 %	0.1 %	0.4 %	0.2 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4853 ppm	110.9186 %	112.8295 %	109.4550 %	109.2344 %	111.5244 %	108.6882 %
Concentration per Run 1	0.4850 ppm	111.1325 %	113.1429 %	109.5757 %	109.4336 %	111.8026 %	108.7887 %
Concentration per Run 2	0.4858 ppm	110.8416 %	112.2416 %	109.8788 %	109.2620 %	110.6820 %	108.9735 %
Concentration per Run 3	0.4852 ppm	110.7818 %	113.1039 %	108.9104 %	109.0076 %	112.0887 %	108.3024 %
Recovery Percentage 1	97.066 %						
Concentration RSD	0.1 %	0.2 %	0.5 %	0.5 %	0.2 %	0.7 %	0.3 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 5:18:32 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	-0.0062 ppm	-0.0002 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	-0.0034 ppm
Concentration per Run 1	0.0005 ppm	0.0043 ppm	0.0008 ppm	0.0018 ppm	0.0002 ppm	0.0000 ppm	-0.0033 ppm
Concentration per Run 2	0.0009 ppm	-0.0142 ppm	0.0005 ppm	0.0007 ppm	-0.0003 ppm	0.0001 ppm	-0.0036 ppm
Concentration per Run 3	0.0010 ppm	-0.0086 ppm	-0.0017 ppm	0.0017 ppm	0.0000 ppm	0.0001 ppm	-0.0032 ppm
Recovery Percentage 1	11.627 %	-6.178 %	-3.243 %	4.713 %	-0.255 %	1.148 %	-3.370 %
Concentration RSD	33.7 %	153.0 %	826.5 %	43.8 %	878.2 %	80.3 %	5.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0006 ppm	0.0003 ppm	0.0003 ppm	0.0002 ppm	0.0419 ppm	-0.0008 ppm
Concentration per Run 1	0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0002 ppm	-0.0003 ppm	0.0293 ppm	-0.0011 ppm
Concentration per Run 2	0.0001 ppm	0.0015 ppm	0.0004 ppm	0.0004 ppm	0.0012 ppm	0.0709 ppm	-0.0005 ppm
Concentration per Run 3	-0.0002 ppm	0.0008 ppm	0.0002 ppm	0.0002 ppm	-0.0003 ppm	0.0254 ppm	-0.0008 ppm
Recovery Percentage 1	-0.226 %	2.930 %	2.731 %	2.901 %	0.446 %	1.674 %	-16.167 %
Concentration RSD	1,617.2 %	175.4 %	52.7 %	40.5 %	376.2 %	60.2 %	41.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0000 ppm	0.0006 ppm	-0.0061 ppm	-0.0008 ppm	0.0014 ppm	0.0033 ppm
Concentration per Run 1	-0.0006 ppm	0.0002 ppm	0.0007 ppm	-0.0047 ppm	-0.0018 ppm	0.0016 ppm	0.0069 ppm
Concentration per Run 2	-0.0007 ppm	-0.0002 ppm	0.0003 ppm	-0.0038 ppm	-0.0005 ppm	0.0012 ppm	0.0042 ppm
Concentration per Run 3	0.0003 ppm	0.0000 ppm	0.0008 ppm	-0.0097 ppm	-0.0001 ppm	0.0013 ppm	-0.0012 ppm
Recovery Percentage 1	-0.335 %	0.290 %	1.231 %	-0.304 %	-3.204 %	13.848 %	6.570 %
Concentration RSD	173.3 %	715.4 %	39.3 %	51.8 %	105.7 %	15.4 %	126.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0027 ppm	0.0004 ppm	-0.0010 ppm	0.0001 ppm	-0.0003 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 1	0.0043 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 2	0.0018 ppm	0.0001 ppm	-0.0015 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	0.0019 ppm	0.0007 ppm	-0.0015 ppm	0.0002 ppm	-0.0006 ppm	0.0015 ppm	0.0004 ppm
Recovery Percentage 1	26.769 %	0.079 %	-2.042 %	1.074 %	-3.095 %	2.937 %	3.070 %
Concentration RSD	53.6 %	75.3 %	83.4 %	63.6 %	78.4 %	138.0 %	33.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	110.2602 %	111.7129 %	110.1103 %	109.3883 %	111.0579 %	109.2807 %
Concentration per Run 1	-0.0003 ppm	112.0101 %	111.7916 %	110.6877 %	110.5594 %	111.2484 %	109.7966 %
Concentration per Run 2	-0.0002 ppm	109.6925 %	111.9248 %	109.6622 %	109.0015 %	111.3200 %	108.7202 %
Concentration per Run 3	-0.0001 ppm	109.0782 %	111.4222 %	109.9809 %	108.6041 %	110.6052 %	109.3252 %
Recovery Percentage 1	-3.757 %						
Concentration RSD	76.8 %	1.4 %	0.2 %	0.5 %	0.9 %	0.4 %	0.5 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: WG1976217-1 WG1976217
Analysis started at: 9/26/2024 5:28:18 PM
Rack 2
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0043 ppm	-0.0005 ppm	0.0020 ppm	0.0000 ppm	0.0001 ppm	0.0043 ppm
Concentration per Run 1	0.0005 ppm	0.0074 ppm	-0.0008 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0053 ppm
Concentration per Run 2	0.0008 ppm	0.0080 ppm	-0.0019 ppm	0.0022 ppm	0.0000 ppm	0.0001 ppm	0.0029 ppm
Concentration per Run 3	0.0009 ppm	-0.0023 ppm	0.0012 ppm	0.0022 ppm	0.0001 ppm	0.0001 ppm	0.0047 ppm
Concentration RSD	30.2 %	133.6 %	322.0 %	18.7 %	180.3 %	54.5 %	28.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0005 ppm	0.0005 ppm	0.0001 ppm	-0.0003 ppm	0.0301 ppm	-0.0013 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0005 ppm	0.0002 ppm	0.0003 ppm	0.0228 ppm	-0.0010 ppm
Concentration per Run 2	0.0002 ppm	0.0010 ppm	0.0009 ppm	0.0000 ppm	-0.0016 ppm	0.0377 ppm	-0.0010 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0297 ppm	-0.0018 ppm
Concentration RSD	188.2 %	81.5 %	92.7 %	202.0 %	326.4 %	24.8 %	36.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0074 ppm	-0.0002 ppm	0.0003 ppm	0.0026 ppm
Concentration per Run 1	0.0006 ppm	0.0002 ppm	0.0006 ppm	-0.0048 ppm	-0.0002 ppm	0.0000 ppm	0.0040 ppm
Concentration per Run 2	0.0010 ppm	0.0003 ppm	-0.0003 ppm	-0.0082 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	-0.0017 ppm	-0.0001 ppm	0.0000 ppm	-0.0093 ppm	-0.0005 ppm	0.0009 ppm	0.0038 ppm
Concentration RSD	3,659.4 %	209.7 %	400.3 %	31.8 %	120.4 %	155.3 %	86.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0032 ppm	-0.0036 ppm	-0.0012 ppm	0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0065 ppm	-0.0068 ppm	-0.0019 ppm	0.0000 ppm	-0.0006 ppm	-0.0006 ppm	0.0005 ppm
Concentration per Run 2	0.0028 ppm	-0.0014 ppm	-0.0007 ppm	0.0001 ppm	-0.0004 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 3	0.0003 ppm	-0.0025 ppm	-0.0011 ppm	0.0002 ppm	-0.0004 ppm	0.0006 ppm	0.0002 ppm
Concentration RSD	96.6 %	79.5 %	50.0 %	66.1 %	22.0 %	1,040.8 %	140.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	111.7933 %	111.9730 %	111.0796 %	110.4558 %	110.7604 %	108.9748 %
Concentration per Run 1	0.0002 ppm	110.9696 %	110.7015 %	110.7072 %	109.1801 %	110.0979 %	108.6494 %
Concentration per Run 2	0.0001 ppm	112.4523 %	112.1467 %	111.3016 %	111.2792 %	110.7006 %	108.9977 %
Concentration per Run 3	0.0001 ppm	111.9580 %	113.0707 %	111.2301 %	110.9082 %	111.4827 %	109.2774 %
Concentration RSD	25.6 %	0.7 %	1.1 %	0.3 %	1.0 %	0.6 %	0.3 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: WG1976217-2 WG1976217
Analysis started at: 9/26/2024 5:32:28 PM
Rack 2
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0490 ppm	1.8292 ppm	0.1112 ppm	0.9108 ppm	1.8628 ppm	0.0473 ppm	9.3501 ppm
Concentration per Run 1	0.0493 ppm	1.8310 ppm	0.1103 ppm	0.9170 ppm	1.8726 ppm	0.0474 ppm	9.3506 ppm
Concentration per Run 2	0.0489 ppm	1.8283 ppm	0.1110 ppm	0.9074 ppm	1.8504 ppm	0.0470 ppm	9.3314 ppm
Concentration per Run 3	0.0488 ppm	1.8283 ppm	0.1122 ppm	0.9079 ppm	1.8655 ppm	0.0474 ppm	9.3684 ppm
Concentration RSD	0.6 %	0.1 %	0.9 %	0.6 %	0.6 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0506 ppm	0.4741 ppm	0.1851 ppm	0.2340 ppm	0.9507 ppm	9.6857 ppm	-0.0012 ppm
Concentration per Run 1	0.0510 ppm	0.4760 ppm	0.1853 ppm	0.2349 ppm	0.9502 ppm	9.7279 ppm	-0.0012 ppm
Concentration per Run 2	0.0503 ppm	0.4716 ppm	0.1851 ppm	0.2342 ppm	0.9463 ppm	9.6310 ppm	-0.0001 ppm
Concentration per Run 3	0.0506 ppm	0.4747 ppm	0.1849 ppm	0.2329 ppm	0.9556 ppm	9.6981 ppm	-0.0024 ppm
Concentration RSD	0.8 %	0.5 %	0.1 %	0.4 %	0.5 %	0.5 %	93.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.4357 ppm	0.4655 ppm	0.8861 ppm	9.5179 ppm	0.4693 ppm	0.5044 ppm	0.4152 ppm
Concentration per Run 1	9.4881 ppm	0.4658 ppm	0.8798 ppm	9.5496 ppm	0.4689 ppm	0.5012 ppm	0.4131 ppm
Concentration per Run 2	9.4418 ppm	0.4643 ppm	0.8847 ppm	9.4806 ppm	0.4692 ppm	0.5042 ppm	0.4093 ppm
Concentration per Run 3	9.3772 ppm	0.4664 ppm	0.8938 ppm	9.5234 ppm	0.4698 ppm	0.5079 ppm	0.4232 ppm
Concentration RSD	0.6 %	0.2 %	0.8 %	0.4 %	0.1 %	0.7 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1163 ppm	0.7229 ppm	0.8843 ppm	0.8891 ppm	0.9494 ppm	0.1132 ppm	0.4732 ppm
Concentration per Run 1	0.1157 ppm	0.7235 ppm	0.8895 ppm	0.8913 ppm	0.9537 ppm	0.1136 ppm	0.4744 ppm
Concentration per Run 2	0.1169 ppm	0.7248 ppm	0.8814 ppm	0.8865 ppm	0.9502 ppm	0.1113 ppm	0.4727 ppm
Concentration per Run 3	0.1165 ppm	0.7205 ppm	0.8819 ppm	0.8896 ppm	0.9445 ppm	0.1147 ppm	0.4725 ppm
Concentration RSD	0.5 %	0.3 %	0.5 %	0.3 %	0.5 %	1.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4767 ppm	115.5937 %	114.7878 %	113.2618 %	115.1638 %	113.9594 %	113.2793 %
Concentration per Run 1	0.4796 ppm	115.2215 %	115.2864 %	114.1419 %	115.1275 %	114.7413 %	113.7441 %
Concentration per Run 2	0.4749 ppm	115.1377 %	115.0381 %	114.3253 %	114.3260 %	113.8174 %	114.4768 %
Concentration per Run 3	0.4754 ppm	116.4219 %	114.0389 %	111.3180 %	116.0380 %	113.3194 %	111.6171 %
Concentration RSD	0.5 %	0.6 %	0.6 %	1.5 %	0.7 %	0.6 %	1.3 %

ICP DataTrace 9

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LabBook: WG1976462_09262024T9.imexp

Sample: L2454059-01 WG1976217
Analysis started at: 9/26/2024 5:36:23 PM
Rack 2
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	0.0052 ppm	0.0006 ppm	0.0194 ppm	0.0986 ppm	0.0001 ppm	14.8576 ppm
Concentration per Run 1	0.0007 ppm	0.0151 ppm	-0.0014 ppm	0.0197 ppm	0.0978 ppm	0.0001 ppm	14.7308 ppm
Concentration per Run 2	0.0014 ppm	0.0006 ppm	0.0027 ppm	0.0202 ppm	0.0994 ppm	0.0001 ppm	14.9562 ppm
Concentration per Run 3	0.0007 ppm	0.0000 ppm	0.0004 ppm	0.0184 ppm	0.0986 ppm	0.0001 ppm	14.8856 ppm
Concentration RSD	40.5 %	163.1 %	357.5 %	4.9 %	0.8 %	30.9 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0013 ppm	0.0003 ppm	0.0027 ppm	0.0122 ppm	2.6168 ppm	-0.0017 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0026 ppm	0.0109 ppm	2.6174 ppm	-0.0013 ppm
Concentration per Run 2	-0.0002 ppm	0.0014 ppm	0.0003 ppm	0.0025 ppm	0.0134 ppm	2.6555 ppm	-0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0018 ppm	0.0005 ppm	0.0028 ppm	0.0124 ppm	2.5774 ppm	-0.0020 ppm
Concentration RSD	136.8 %	43.4 %	61.0 %	6.3 %	10.4 %	1.5 %	21.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.2312 ppm	0.0322 ppm	0.0021 ppm	68.9671 ppm	0.0002 ppm	0.0012 ppm	0.0067 ppm
Concentration per Run 1	4.2351 ppm	0.0319 ppm	0.0016 ppm	68.0039 ppm	0.0005 ppm	0.0009 ppm	0.0092 ppm
Concentration per Run 2	4.2324 ppm	0.0323 ppm	0.0024 ppm	69.9390 ppm	-0.0010 ppm	0.0021 ppm	0.0059 ppm
Concentration per Run 3	4.2260 ppm	0.0323 ppm	0.0022 ppm	68.9584 ppm	0.0010 ppm	0.0005 ppm	0.0049 ppm
Concentration RSD	0.1 %	0.7 %	19.6 %	1.4 %	629.7 %	71.2 %	33.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0045 ppm	3.0689 ppm	0.0037 ppm	0.0799 ppm	-0.0004 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 1	0.0056 ppm	3.0802 ppm	0.0043 ppm	0.0793 ppm	-0.0004 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 2	0.0020 ppm	3.0537 ppm	0.0038 ppm	0.0806 ppm	-0.0006 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0058 ppm	3.0726 ppm	0.0031 ppm	0.0798 ppm	-0.0001 ppm	0.0020 ppm	0.0002 ppm
Concentration RSD	48.5 %	0.4 %	16.7 %	0.8 %	64.3 %	103.0 %	58.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0034 ppm	111.6407 %	113.7197 %	109.0360 %	112.5659 %	113.5345 %	112.3308 %
Concentration per Run 1	0.0035 ppm	111.2867 %	114.3628 %	108.5415 %	112.7566 %	114.4492 %	112.5520 %
Concentration per Run 2	0.0034 ppm	111.5816 %	112.8105 %	109.4899 %	112.4272 %	112.9487 %	112.4690 %
Concentration per Run 3	0.0035 ppm	112.0539 %	113.9856 %	109.0765 %	112.5139 %	113.2055 %	111.9714 %
Concentration RSD	2.1 %	0.3 %	0.7 %	0.4 %	0.2 %	0.7 %	0.3 %

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LabBook: WG1976462_09262024T9.imexp

Sample: WG1976217-3 WG1976217
Analysis started at: 9/26/2024 5:40:18 PM
Rack 2
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0492 ppm	1.9151 ppm	0.1192 ppm	0.9670 ppm	2.0344 ppm	0.0496 ppm	25.1630 ppm
Concentration per Run 1	0.0493 ppm	1.9175 ppm	0.1225 ppm	0.9734 ppm	2.0444 ppm	0.0498 ppm	25.1300 ppm
Concentration per Run 2	0.0492 ppm	1.9280 ppm	0.1156 ppm	0.9624 ppm	2.0369 ppm	0.0498 ppm	25.2491 ppm
Concentration per Run 3	0.0491 ppm	1.9000 ppm	0.1195 ppm	0.9652 ppm	2.0219 ppm	0.0492 ppm	25.1100 ppm
Concentration RSD	0.2 %	0.7 %	2.9 %	0.6 %	0.6 %	0.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0516 ppm	0.4820 ppm	0.1898 ppm	0.2415 ppm	0.9955 ppm	12.8402 ppm	-0.0008 ppm
Concentration per Run 1	0.0519 ppm	0.4814 ppm	0.1887 ppm	0.2415 ppm	0.9994 ppm	12.9132 ppm	0.0005 ppm
Concentration per Run 2	0.0510 ppm	0.4811 ppm	0.1900 ppm	0.2413 ppm	0.9988 ppm	12.8347 ppm	-0.0016 ppm
Concentration per Run 3	0.0518 ppm	0.4835 ppm	0.1908 ppm	0.2418 ppm	0.9882 ppm	12.7728 ppm	-0.0015 ppm
Concentration RSD	1.0 %	0.3 %	0.6 %	0.1 %	0.6 %	0.5 %	138.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.7634 ppm	0.5140 ppm	0.8855 ppm	81.7452 ppm	0.4738 ppm	0.5151 ppm	0.3904 ppm
Concentration per Run 1	13.7715 ppm	0.5139 ppm	0.8737 ppm	81.6216 ppm	0.4743 ppm	0.5191 ppm	0.3758 ppm
Concentration per Run 2	13.7383 ppm	0.5167 ppm	0.8854 ppm	81.7168 ppm	0.4732 ppm	0.5119 ppm	0.3943 ppm
Concentration per Run 3	13.7803 ppm	0.5115 ppm	0.8974 ppm	81.8971 ppm	0.4740 ppm	0.5142 ppm	0.4010 ppm
Concentration RSD	0.2 %	0.5 %	1.3 %	0.2 %	0.1 %	0.7 %	3.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1219 ppm	3.9373 ppm	0.8924 ppm	1.0103 ppm	0.9771 ppm	0.1166 ppm	0.4888 ppm
Concentration per Run 1	0.1215 ppm	3.9530 ppm	0.8918 ppm	1.0170 ppm	0.9760 ppm	0.1178 ppm	0.4893 ppm
Concentration per Run 2	0.1214 ppm	3.9231 ppm	0.8878 ppm	1.0097 ppm	0.9741 ppm	0.1160 ppm	0.4882 ppm
Concentration per Run 3	0.1228 ppm	3.9357 ppm	0.8976 ppm	1.0040 ppm	0.9810 ppm	0.1159 ppm	0.4890 ppm
Concentration RSD	0.6 %	0.4 %	0.5 %	0.6 %	0.4 %	0.9 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4984 ppm	110.1802 %	108.6319 %	106.2832 %	110.2931 %	107.8792 %	108.3662 %
Concentration per Run 1	0.4998 ppm	110.3053 %	107.8691 %	105.6436 %	110.7354 %	106.9299 %	108.1397 %
Concentration per Run 2	0.4974 ppm	110.7746 %	108.3995 %	105.6814 %	110.8703 %	107.9427 %	107.6338 %
Concentration per Run 3	0.4980 ppm	109.4608 %	109.6270 %	107.5247 %	109.2737 %	108.7650 %	109.3250 %
Concentration RSD	0.3 %	0.6 %	0.8 %	1.0 %	0.8 %	0.9 %	0.8 %

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LabBook: WG1976462_09262024T9.imexp

Sample: WG1976217-4 WG1976217
Analysis started at: 9/26/2024 5:44:13 PM
Rack 2
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0129 ppm	0.0012 ppm	0.0210 ppm	0.1038 ppm	0.0001 ppm	15.6126 ppm
Concentration per Run 1	0.0007 ppm	0.0111 ppm	0.0015 ppm	0.0217 ppm	0.1040 ppm	0.0001 ppm	15.6308 ppm
Concentration per Run 2	0.0007 ppm	0.0190 ppm	0.0006 ppm	0.0223 ppm	0.1037 ppm	0.0000 ppm	15.6184 ppm
Concentration per Run 3	0.0007 ppm	0.0085 ppm	0.0015 ppm	0.0191 ppm	0.1038 ppm	0.0001 ppm	15.5886 ppm
Concentration RSD	2.9 %	42.5 %	40.2 %	8.1 %	0.1 %	47.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	0.0005 ppm	0.0031 ppm	0.0158 ppm	2.7383 ppm	-0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0027 ppm	0.0160 ppm	2.7921 ppm	-0.0011 ppm
Concentration per Run 2	-0.0001 ppm	0.0008 ppm	0.0001 ppm	0.0034 ppm	0.0157 ppm	2.7047 ppm	-0.0004 ppm
Concentration per Run 3	0.0002 ppm	0.0003 ppm	0.0008 ppm	0.0033 ppm	0.0158 ppm	2.7179 ppm	-0.0007 ppm
Concentration RSD	1,305.3 %	108.8 %	73.5 %	11.1 %	1.1 %	1.7 %	50.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.3573 ppm	0.0336 ppm	0.0029 ppm	72.5280 ppm	0.0002 ppm	0.0012 ppm	0.0046 ppm
Concentration per Run 1	4.3597 ppm	0.0339 ppm	0.0022 ppm	72.7066 ppm	-0.0009 ppm	0.0015 ppm	0.0019 ppm
Concentration per Run 2	4.3721 ppm	0.0334 ppm	0.0033 ppm	72.3962 ppm	0.0009 ppm	0.0021 ppm	0.0057 ppm
Concentration per Run 3	4.3400 ppm	0.0335 ppm	0.0034 ppm	72.4812 ppm	0.0005 ppm	-0.0002 ppm	0.0063 ppm
Concentration RSD	0.4 %	0.8 %	21.6 %	0.2 %	599.5 %	102.8 %	51.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	3.1655 ppm	0.0059 ppm	0.0843 ppm	-0.0004 ppm	0.0007 ppm	0.0004 ppm
Concentration per Run 1	0.0013 ppm	3.1718 ppm	0.0056 ppm	0.0846 ppm	-0.0004 ppm	0.0012 ppm	0.0002 ppm
Concentration per Run 2	0.0008 ppm	3.1645 ppm	0.0056 ppm	0.0840 ppm	-0.0005 ppm	0.0016 ppm	0.0005 ppm
Concentration per Run 3	0.0053 ppm	3.1601 ppm	0.0065 ppm	0.0843 ppm	-0.0003 ppm	-0.0008 ppm	0.0004 ppm
Concentration RSD	99.9 %	0.2 %	8.2 %	0.3 %	23.5 %	194.0 %	39.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0036 ppm	109.2033 %	109.5466 %	107.4010 %	110.8267 %	109.4692 %	110.1962 %
Concentration per Run 1	0.0038 ppm	110.3819 %	109.3867 %	107.2547 %	112.7182 %	109.4274 %	110.5685 %
Concentration per Run 2	0.0036 ppm	107.8560 %	109.2462 %	107.8130 %	109.2555 %	109.1504 %	110.3407 %
Concentration per Run 3	0.0035 ppm	109.3720 %	110.0070 %	107.1354 %	110.5065 %	109.8297 %	109.6793 %
Concentration RSD	3.6 %	1.2 %	0.4 %	0.3 %	1.6 %	0.3 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976217-5 WG1976217
Analysis started at: 9/26/2024 5:48:08 PM
Rack 2
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0484 ppm	1.8615 ppm	0.1188 ppm	0.9704 ppm	1.9808 ppm	0.0485 ppm	24.3656 ppm
Concentration per Run 1	0.0491 ppm	1.8933 ppm	0.1190 ppm	0.9825 ppm	1.9935 ppm	0.0487 ppm	24.4783 ppm
Concentration per Run 2	0.0486 ppm	1.8487 ppm	0.1199 ppm	0.9685 ppm	1.9768 ppm	0.0485 ppm	24.3596 ppm
Concentration per Run 3	0.0475 ppm	1.8424 ppm	0.1175 ppm	0.9601 ppm	1.9722 ppm	0.0483 ppm	24.2589 ppm
Concentration RSD	1.6 %	1.5 %	1.0 %	1.2 %	0.6 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0511 ppm	0.4817 ppm	0.1897 ppm	0.2410 ppm	0.9634 ppm	12.5344 ppm	-0.0021 ppm
Concentration per Run 1	0.0517 ppm	0.4881 ppm	0.1926 ppm	0.2448 ppm	0.9702 ppm	12.5977 ppm	-0.0011 ppm
Concentration per Run 2	0.0505 ppm	0.4777 ppm	0.1895 ppm	0.2391 ppm	0.9698 ppm	12.5686 ppm	-0.0024 ppm
Concentration per Run 3	0.0511 ppm	0.4792 ppm	0.1870 ppm	0.2391 ppm	0.9502 ppm	12.4370 ppm	-0.0029 ppm
Concentration RSD	1.2 %	1.2 %	1.5 %	1.4 %	1.2 %	0.7 %	42.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.6245 ppm	0.5034 ppm	0.8945 ppm	78.7751 ppm	0.4744 ppm	0.5102 ppm	0.3438 ppm
Concentration per Run 1	13.8123 ppm	0.5056 ppm	0.8890 ppm	79.2514 ppm	0.4808 ppm	0.5110 ppm	0.3376 ppm
Concentration per Run 2	13.5683 ppm	0.5023 ppm	0.8907 ppm	78.5423 ppm	0.4748 ppm	0.5084 ppm	0.3409 ppm
Concentration per Run 3	13.4929 ppm	0.5023 ppm	0.9038 ppm	78.5316 ppm	0.4675 ppm	0.5110 ppm	0.3530 ppm
Concentration RSD	1.2 %	0.4 %	0.9 %	0.5 %	1.4 %	0.3 %	2.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1212 ppm	3.5879 ppm	0.9113 ppm	0.9880 ppm	0.9821 ppm	0.1150 ppm	0.4875 ppm
Concentration per Run 1	0.1224 ppm	3.6311 ppm	0.9253 ppm	0.9923 ppm	0.9952 ppm	0.1152 ppm	0.4944 ppm
Concentration per Run 2	0.1196 ppm	3.5614 ppm	0.9059 ppm	0.9874 ppm	0.9768 ppm	0.1149 ppm	0.4844 ppm
Concentration per Run 3	0.1216 ppm	3.5713 ppm	0.9029 ppm	0.9843 ppm	0.9743 ppm	0.1150 ppm	0.4837 ppm
Concentration RSD	1.2 %	1.1 %	1.3 %	0.4 %	1.2 %	0.2 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4969 ppm	108.7981 %	109.2490 %	106.3054 %	109.1477 %	108.0060 %	108.3690 %
Concentration per Run 1	0.5026 ppm	107.9683 %	109.4152 %	106.8420 %	108.4087 %	108.9225 %	109.1629 %
Concentration per Run 2	0.4958 ppm	109.4387 %	108.9884 %	106.1030 %	109.5350 %	107.8409 %	108.1862 %
Concentration per Run 3	0.4923 ppm	108.9872 %	109.3435 %	105.9712 %	109.4993 %	107.2545 %	107.7580 %
Concentration RSD	1.1 %	0.7 %	0.2 %	0.4 %	0.6 %	0.8 %	0.7 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: WG1976217-6d5 WG1976217
Analysis started at: 9/26/2024 5:52:03 PM
Rack 2
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	-0.0063 ppm	-0.0007 ppm	0.0059 ppm	0.0200 ppm	0.0001 ppm	2.9285 ppm
Concentration per Run 1	0.0006 ppm	-0.0091 ppm	-0.0007 ppm	0.0041 ppm	0.0200 ppm	0.0000 ppm	2.9287 ppm
Concentration per Run 2	0.0011 ppm	0.0022 ppm	0.0004 ppm	0.0073 ppm	0.0201 ppm	0.0000 ppm	2.9212 ppm
Concentration per Run 3	0.0006 ppm	-0.0120 ppm	-0.0017 ppm	0.0061 ppm	0.0199 ppm	0.0001 ppm	2.9356 ppm
Concentration RSD	37.7 %	118.8 %	154.6 %	27.1 %	0.5 %	84.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0006 ppm	0.0020 ppm	0.5591 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0001 ppm	0.0005 ppm	0.0022 ppm	0.5750 ppm	-0.0006 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	-0.0001 ppm	0.0007 ppm	0.0019 ppm	0.5332 ppm	-0.0006 ppm
Concentration per Run 3	0.0003 ppm	0.0013 ppm	0.0000 ppm	0.0006 ppm	0.0020 ppm	0.5690 ppm	-0.0008 ppm
Concentration RSD	219.5 %	56.8 %	267.5 %	18.4 %	8.7 %	4.0 %	18.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.8264 ppm	0.0065 ppm	0.0031 ppm	13.8202 ppm	-0.0002 ppm	0.0015 ppm	0.0108 ppm
Concentration per Run 1	0.8270 ppm	0.0065 ppm	0.0033 ppm	13.8184 ppm	-0.0016 ppm	0.0023 ppm	0.0072 ppm
Concentration per Run 2	0.8213 ppm	0.0068 ppm	0.0030 ppm	13.8101 ppm	-0.0005 ppm	0.0019 ppm	0.0104 ppm
Concentration per Run 3	0.8309 ppm	0.0063 ppm	0.0030 ppm	13.8320 ppm	0.0013 ppm	0.0004 ppm	0.0149 ppm
Concentration RSD	0.6 %	4.2 %	6.5 %	0.1 %	604.9 %	64.1 %	36.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	0.5958 ppm	0.0197 ppm	0.0160 ppm	-0.0001 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 1	0.0005 ppm	0.5943 ppm	0.0215 ppm	0.0160 ppm	-0.0002 ppm	0.0006 ppm	0.0007 ppm
Concentration per Run 2	0.0035 ppm	0.5959 ppm	0.0199 ppm	0.0160 ppm	0.0001 ppm	0.0007 ppm	0.0000 ppm
Concentration per Run 3	-0.0010 ppm	0.5970 ppm	0.0177 ppm	0.0161 ppm	-0.0002 ppm	0.0013 ppm	0.0004 ppm
Concentration RSD	220.7 %	0.2 %	9.8 %	0.3 %	206.1 %	43.5 %	90.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	110.8732 %	109.3776 %	109.3290 %	110.4675 %	107.9897 %	109.2137 %
Concentration per Run 1	0.0008 ppm	110.9516 %	109.3457 %	109.3760 %	110.3007 %	108.4008 %	109.2442 %
Concentration per Run 2	0.0007 ppm	111.2298 %	109.5596 %	109.5056 %	110.7690 %	108.1874 %	109.3009 %
Concentration per Run 3	0.0007 ppm	110.4382 %	109.2274 %	109.1054 %	110.3329 %	107.3808 %	109.0961 %
Concentration RSD	7.9 %	0.4 %	0.2 %	0.2 %	0.2 %	0.5 %	0.1 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453908-01 WG1976217
Analysis started at: 9/26/2024 5:55:58 PM
Rack 2
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0070 ppm	0.0007 ppm	0.0031 ppm	0.0047 ppm	0.0001 ppm	12.4786 ppm
Concentration per Run 1	0.0000 ppm	0.0091 ppm	0.0004 ppm	0.0022 ppm	0.0047 ppm	0.0001 ppm	12.5021 ppm
Concentration per Run 2	0.0004 ppm	0.0039 ppm	-0.0001 ppm	0.0027 ppm	0.0048 ppm	0.0001 ppm	12.4720 ppm
Concentration per Run 3	0.0006 ppm	0.0080 ppm	0.0018 ppm	0.0043 ppm	0.0047 ppm	0.0001 ppm	12.4617 ppm
Concentration RSD	82.9 %	39.8 %	147.8 %	36.0 %	0.6 %	5.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0011 ppm	0.0004 ppm	0.0013 ppm	0.3048 ppm	1.1022 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0014 ppm	0.0003 ppm	0.0013 ppm	0.3047 ppm	1.1205 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	0.0002 ppm	0.0009 ppm	0.3053 ppm	1.0935 ppm	-0.0026 ppm
Concentration per Run 3	0.0000 ppm	0.0011 ppm	0.0006 ppm	0.0016 ppm	0.3045 ppm	1.0925 ppm	0.0013 ppm
Concentration RSD	162.5 %	22.7 %	57.8 %	26.8 %	0.1 %	1.4 %	346.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.1631 ppm	0.1998 ppm	0.0009 ppm	5.5744 ppm	0.0011 ppm	0.0011 ppm	0.0004 ppm
Concentration per Run 1	3.1703 ppm	0.2000 ppm	0.0008 ppm	5.5856 ppm	0.0008 ppm	0.0003 ppm	0.0024 ppm
Concentration per Run 2	3.1609 ppm	0.1997 ppm	0.0008 ppm	5.5759 ppm	0.0010 ppm	0.0008 ppm	0.0012 ppm
Concentration per Run 3	3.1582 ppm	0.1997 ppm	0.0011 ppm	5.5618 ppm	0.0015 ppm	0.0023 ppm	-0.0023 ppm
Concentration RSD	0.2 %	0.1 %	19.0 %	0.2 %	31.0 %	95.4 %	555.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	4.5770 ppm	-0.0006 ppm	0.0455 ppm	-0.0005 ppm	0.0006 ppm	0.0004 ppm
Concentration per Run 1	0.0013 ppm	4.5836 ppm	-0.0004 ppm	0.0453 ppm	-0.0003 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 2	0.0061 ppm	4.5796 ppm	0.0002 ppm	0.0456 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 3	0.0002 ppm	4.5680 ppm	-0.0014 ppm	0.0456 ppm	-0.0010 ppm	0.0010 ppm	0.0005 ppm
Concentration RSD	122.6 %	0.2 %	142.6 %	0.4 %	90.9 %	71.6 %	46.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	110.6582 %	109.2852 %	109.7633 %	112.3684 %	108.6508 %	110.5867 %
Concentration per Run 1	0.0025 ppm	111.4457 %	109.0562 %	109.1357 %	113.6786 %	108.9162 %	110.2846 %
Concentration per Run 2	0.0024 ppm	110.2198 %	109.2654 %	110.3507 %	111.9782 %	108.5693 %	111.0565 %
Concentration per Run 3	0.0021 ppm	110.3090 %	109.5340 %	109.8035 %	111.4485 %	108.4669 %	110.4189 %
Concentration RSD	7.3 %	0.6 %	0.2 %	0.6 %	1.0 %	0.2 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2453913-01 WG1976217
Analysis started at: 9/26/2024 5:59:54 PM
Rack 2
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0052 ppm	0.0029 ppm	0.0054 ppm	0.0060 ppm	0.0000 ppm	17.6776 ppm
Concentration per Run 1	0.0006 ppm	-0.0025 ppm	0.0018 ppm	0.0043 ppm	0.0060 ppm	0.0000 ppm	17.6411 ppm
Concentration per Run 2	0.0002 ppm	-0.0099 ppm	0.0036 ppm	0.0062 ppm	0.0060 ppm	0.0000 ppm	17.7726 ppm
Concentration per Run 3	0.0002 ppm	-0.0034 ppm	0.0033 ppm	0.0058 ppm	0.0059 ppm	0.0000 ppm	17.6192 ppm
Concentration RSD	77.1 %	77.2 %	32.1 %	19.0 %	1.2 %	44.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0004 ppm	0.0005 ppm	0.3250 ppm	1.4992 ppm	-0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0014 ppm	-0.0001 ppm	0.0006 ppm	0.3226 ppm	1.5240 ppm	-0.0015 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0004 ppm	0.3272 ppm	1.5130 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0007 ppm	0.0006 ppm	0.3252 ppm	1.4606 ppm	-0.0015 ppm
Concentration RSD	216.5 %	92.9 %	110.6 %	19.2 %	0.7 %	2.3 %	75.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.9196 ppm	0.3656 ppm	0.0002 ppm	6.5972 ppm	0.0005 ppm	0.0016 ppm	0.0052 ppm
Concentration per Run 1	3.9328 ppm	0.3645 ppm	0.0002 ppm	6.6056 ppm	0.0001 ppm	0.0030 ppm	0.0024 ppm
Concentration per Run 2	3.9072 ppm	0.3662 ppm	0.0002 ppm	6.5863 ppm	0.0012 ppm	0.0003 ppm	0.0059 ppm
Concentration per Run 3	3.9189 ppm	0.3659 ppm	0.0003 ppm	6.5997 ppm	0.0003 ppm	0.0015 ppm	0.0073 ppm
Concentration RSD	0.3 %	0.2 %	20.9 %	0.2 %	119.3 %	84.5 %	49.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0031 ppm	4.7259 ppm	-0.0015 ppm	0.0616 ppm	-0.0002 ppm	0.0016 ppm	0.0005 ppm
Concentration per Run 1	0.0004 ppm	4.7278 ppm	-0.0020 ppm	0.0615 ppm	-0.0003 ppm	0.0007 ppm	0.0004 ppm
Concentration per Run 2	0.0023 ppm	4.7311 ppm	-0.0016 ppm	0.0616 ppm	-0.0003 ppm	0.0020 ppm	0.0006 ppm
Concentration per Run 3	0.0067 ppm	4.7187 ppm	-0.0008 ppm	0.0617 ppm	-0.0001 ppm	0.0020 ppm	0.0005 ppm
Concentration RSD	103.7 %	0.1 %	40.2 %	0.2 %	49.2 %	47.1 %	20.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0019 ppm	110.5102 %	108.9133 %	108.9994 %	112.0152 %	108.3474 %	110.3769 %
Concentration per Run 1	0.0019 ppm	109.9018 %	109.5699 %	108.9945 %	112.0208 %	108.9844 %	110.4399 %
Concentration per Run 2	0.0019 ppm	111.7047 %	107.9257 %	108.3944 %	113.3428 %	107.3329 %	109.8209 %
Concentration per Run 3	0.0019 ppm	109.9242 %	109.2444 %	109.6094 %	110.6819 %	108.7248 %	110.8699 %
Concentration RSD	2.2 %	0.9 %	0.8 %	0.6 %	1.2 %	0.8 %	0.5 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454059-02 WG1976217
Analysis started at: 9/26/2024 6:03:50 PM
Rack 2
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	-0.0042 ppm	0.0008 ppm	0.0045 ppm	0.0146 ppm	0.0001 ppm	11.2450 ppm
Concentration per Run 1	0.0003 ppm	-0.0019 ppm	0.0016 ppm	0.0065 ppm	0.0146 ppm	0.0001 ppm	11.3154 ppm
Concentration per Run 2	0.0009 ppm	-0.0020 ppm	-0.0001 ppm	0.0036 ppm	0.0145 ppm	0.0001 ppm	11.1711 ppm
Concentration per Run 3	0.0006 ppm	-0.0087 ppm	0.0009 ppm	0.0034 ppm	0.0145 ppm	0.0001 ppm	11.2487 ppm
Concentration RSD	50.6 %	93.5 %	112.8 %	39.1 %	0.4 %	29.9 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0006 ppm	0.0027 ppm	0.0003 ppm	0.0018 ppm	0.9713 ppm	0.0031 ppm
Concentration per Run 1	-0.0001 ppm	0.0010 ppm	0.0023 ppm	0.0004 ppm	0.0026 ppm	0.9865 ppm	0.0046 ppm
Concentration per Run 2	0.0003 ppm	0.0004 ppm	0.0027 ppm	0.0003 ppm	0.0000 ppm	0.9657 ppm	0.0027 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0032 ppm	0.0002 ppm	0.0028 ppm	0.9616 ppm	0.0020 ppm
Concentration RSD	246.2 %	45.9 %	17.0 %	30.8 %	85.5 %	1.4 %	42.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.4725 ppm	0.0002 ppm	0.0001 ppm	8.3184 ppm	-0.0004 ppm	0.0018 ppm	0.0036 ppm
Concentration per Run 1	5.4976 ppm	0.0002 ppm	0.0002 ppm	8.3509 ppm	-0.0011 ppm	0.0017 ppm	0.0038 ppm
Concentration per Run 2	5.4528 ppm	0.0002 ppm	0.0001 ppm	8.2705 ppm	-0.0005 ppm	0.0015 ppm	0.0038 ppm
Concentration per Run 3	5.4672 ppm	0.0001 ppm	0.0002 ppm	8.3337 ppm	0.0005 ppm	0.0022 ppm	0.0033 ppm
Concentration RSD	0.4 %	14.7 %	35.1 %	0.5 %	201.5 %	19.8 %	8.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0048 ppm	9.4453 ppm	-0.0019 ppm	0.0455 ppm	-0.0007 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 1	0.0031 ppm	9.4509 ppm	-0.0013 ppm	0.0454 ppm	-0.0008 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 2	0.0079 ppm	9.4365 ppm	-0.0019 ppm	0.0453 ppm	-0.0005 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 3	0.0033 ppm	9.4485 ppm	-0.0025 ppm	0.0457 ppm	-0.0008 ppm	0.0004 ppm	0.0003 ppm
Concentration RSD	56.7 %	0.1 %	32.4 %	0.5 %	28.3 %	28.9 %	88.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	110.5469 %	108.8030 %	109.7029 %	111.8229 %	107.6903 %	110.8639 %
Concentration per Run 1	0.0006 ppm	110.8145 %	108.5338 %	109.0821 %	112.2756 %	107.8919 %	110.3036 %
Concentration per Run 2	0.0006 ppm	110.4973 %	108.1667 %	110.4427 %	111.6418 %	106.4054 %	111.6581 %
Concentration per Run 3	0.0007 ppm	110.3289 %	109.7087 %	109.5840 %	111.5513 %	108.7736 %	110.6300 %
Concentration RSD	7.2 %	0.2 %	0.7 %	0.6 %	0.4 %	1.1 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 6:07:45 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4843 ppm	0.4577 ppm	0.4667 ppm	0.4650 ppm	0.4783 ppm	0.4923 ppm	0.4737 ppm
Concentration per Run 1	0.4862 ppm	0.4579 ppm	0.4714 ppm	0.4629 ppm	0.4768 ppm	0.4929 ppm	0.4782 ppm
Concentration per Run 2	0.4817 ppm	0.4595 ppm	0.4664 ppm	0.4661 ppm	0.4768 ppm	0.4911 ppm	0.4728 ppm
Concentration per Run 3	0.4852 ppm	0.4557 ppm	0.4623 ppm	0.4662 ppm	0.4812 ppm	0.4930 ppm	0.4700 ppm
Recovery Percentage 1	96.870 %	91.547 %	93.341 %	93.007 %	95.657 %	98.463 %	94.732 %
Concentration RSD	0.5 %	0.4 %	1.0 %	0.4 %	0.5 %	0.2 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4883 ppm	0.4948 ppm	0.4743 ppm	0.4731 ppm	0.4827 ppm	4.9996 ppm	0.4659 ppm
Concentration per Run 1	0.4912 ppm	0.4962 ppm	0.4760 ppm	0.4732 ppm	0.4846 ppm	5.0191 ppm	0.4680 ppm
Concentration per Run 2	0.4877 ppm	0.4935 ppm	0.4721 ppm	0.4737 ppm	0.4829 ppm	4.9987 ppm	0.4637 ppm
Concentration per Run 3	0.4858 ppm	0.4947 ppm	0.4748 ppm	0.4724 ppm	0.4807 ppm	4.9809 ppm	0.4659 ppm
Recovery Percentage 1	97.651 %	98.957 %	94.853 %	94.623 %	96.543 %	99.991 %	93.178 %
Concentration RSD	0.6 %	0.3 %	0.4 %	0.1 %	0.4 %	0.4 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4701 ppm	0.4680 ppm	0.4704 ppm	9.5253 ppm	0.4861 ppm	0.4850 ppm	0.4914 ppm
Concentration per Run 1	0.4731 ppm	0.4677 ppm	0.4673 ppm	9.5119 ppm	0.4889 ppm	0.4838 ppm	0.4922 ppm
Concentration per Run 2	0.4698 ppm	0.4676 ppm	0.4693 ppm	9.5024 ppm	0.4819 ppm	0.4855 ppm	0.4914 ppm
Concentration per Run 3	0.4675 ppm	0.4687 ppm	0.4745 ppm	9.5616 ppm	0.4874 ppm	0.4856 ppm	0.4906 ppm
Recovery Percentage 1	94.024 %	93.605 %	94.076 %	95.253 %	97.211 %	96.994 %	98.283 %
Concentration RSD	0.6 %	0.1 %	0.8 %	0.3 %	0.7 %	0.2 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4756 ppm	5.1986 ppm	0.4663 ppm	0.4581 ppm	0.4793 ppm	0.4804 ppm	0.4744 ppm
Concentration per Run 1	0.4827 ppm	5.1905 ppm	0.4615 ppm	0.4580 ppm	0.4806 ppm	0.4830 ppm	0.4744 ppm
Concentration per Run 2	0.4701 ppm	5.2048 ppm	0.4693 ppm	0.4576 ppm	0.4767 ppm	0.4810 ppm	0.4748 ppm
Concentration per Run 3	0.4741 ppm	5.2004 ppm	0.4680 ppm	0.4588 ppm	0.4804 ppm	0.4771 ppm	0.4741 ppm
Recovery Percentage 1	95.128 %	99.021 %	93.252 %	91.628 %	95.850 %	96.074 %	94.884 %
Concentration RSD	1.4 %	0.1 %	0.9 %	0.1 %	0.5 %	0.6 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4872 ppm	112.1993 %	109.4860 %	109.7388 %	111.4886 %	108.2754 %	109.6760 %
Concentration per Run 1	0.4863 ppm	112.2017 %	108.7096 %	109.4986 %	111.6304 %	107.6911 %	109.0379 %
Concentration per Run 2	0.4861 ppm	112.2993 %	109.5397 %	109.7050 %	111.7805 %	107.9961 %	109.6668 %
Concentration per Run 3	0.4891 ppm	112.0970 %	110.2087 %	110.0127 %	111.0551 %	109.1390 %	110.3233 %
Recovery Percentage 1	97.438 %						
Concentration RSD	0.3 %	0.1 %	0.7 %	0.2 %	0.3 %	0.7 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 6:11:39 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0051 ppm	0.0007 ppm	0.0030 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	0.0011 ppm	0.0014 ppm	-0.0002 ppm	0.0054 ppm	0.0002 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 2	0.0006 ppm	0.0052 ppm	0.0014 ppm	0.0023 ppm	0.0003 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	0.0004 ppm	0.0087 ppm	0.0010 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	-0.0009 ppm
Recovery Percentage 1	10.177 %	5.101 %	14.853 %	9.856 %	1.794 %	1.188 %	0.215 %
Concentration RSD	49.0 %	72.0 %	109.5 %	73.3 %	75.0 %	52.1 %	467.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0006 ppm	0.0003 ppm	0.0005 ppm	-0.0005 ppm	0.0341 ppm	-0.0020 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0005 ppm	0.0004 ppm	0.0009 ppm	0.0524 ppm	-0.0031 ppm
Concentration per Run 2	-0.0003 ppm	0.0003 ppm	0.0005 ppm	0.0007 ppm	-0.0007 ppm	0.0211 ppm	-0.0024 ppm
Concentration per Run 3	0.0000 ppm	0.0010 ppm	-0.0001 ppm	0.0004 ppm	-0.0017 ppm	0.0288 ppm	-0.0005 ppm
Recovery Percentage 1	-2.252 %	2.862 %	2.863 %	5.147 %	-0.969 %	1.364 %	-40.454 %
Concentration RSD	163.3 %	61.6 %	116.6 %	39.2 %	278.7 %	47.9 %	65.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0012 ppm	0.0002 ppm	0.0006 ppm	-0.0050 ppm	-0.0002 ppm	0.0007 ppm	0.0040 ppm
Concentration per Run 1	-0.0006 ppm	0.0003 ppm	0.0006 ppm	0.0002 ppm	-0.0003 ppm	0.0003 ppm	0.0089 ppm
Concentration per Run 2	0.0010 ppm	0.0002 ppm	0.0003 ppm	-0.0036 ppm	-0.0005 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 3	-0.0041 ppm	0.0000 ppm	0.0009 ppm	-0.0116 ppm	0.0001 ppm	0.0016 ppm	0.0018 ppm
Recovery Percentage 1	-1.205 %	1.612 %	1.199 %	-0.252 %	-0.974 %	7.112 %	7.931 %
Concentration RSD	218.3 %	98.2 %	53.6 %	119.6 %	132.8 %	109.1 %	107.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	-0.0003 ppm	-0.0004 ppm	0.0001 ppm	-0.0004 ppm	0.0010 ppm	0.0002 ppm
Concentration per Run 1	0.0021 ppm	-0.0047 ppm	-0.0002 ppm	-0.0001 ppm	-0.0004 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 2	0.0029 ppm	0.0025 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 3	0.0011 ppm	0.0012 ppm	-0.0009 ppm	0.0002 ppm	-0.0007 ppm	0.0017 ppm	0.0002 ppm
Recovery Percentage 1	20.153 %	-0.069 %	-0.751 %	0.979 %	-3.765 %	5.220 %	2.326 %
Concentration RSD	45.4 %	1,104.9 %	113.0 %	141.3 %	92.1 %	51.3 %	43.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	110.0777 %	107.7591 %	110.3606 %	111.1463 %	107.7175 %	110.7314 %
Concentration per Run 1	-0.0002 ppm	109.9221 %	108.2261 %	111.2183 %	111.0970 %	108.3544 %	111.2833 %
Concentration per Run 2	0.0004 ppm	110.8355 %	107.1010 %	110.2748 %	111.8805 %	106.8588 %	110.8450 %
Concentration per Run 3	-0.0002 ppm	109.4755 %	107.9501 %	109.5888 %	110.4615 %	107.9392 %	110.0659 %
Recovery Percentage 1	-0.513 %						
Concentration RSD	1,294.0 %	0.6 %	0.5 %	0.7 %	0.6 %	0.7 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454053-04 WG1975733
Analysis started at: 9/26/2024 6:37:47 PM
Rack 2
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0143 ppm	0.0014 ppm	0.0178 ppm	0.0410 ppm	0.0001 ppm	66.0028 ppm
Concentration per Run 1	0.0001 ppm	-0.0074 ppm	0.0015 ppm	0.0188 ppm	0.0411 ppm	0.0001 ppm	66.3816 ppm
Concentration per Run 2	0.0012 ppm	-0.0132 ppm	0.0017 ppm	0.0153 ppm	0.0412 ppm	0.0001 ppm	66.1852 ppm
Concentration per Run 3	0.0001 ppm	-0.0223 ppm	0.0008 ppm	0.0193 ppm	0.0406 ppm	0.0001 ppm	65.4416 ppm
Concentration RSD	140.2 %	52.7 %	34.1 %	12.2 %	0.8 %	25.5 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0006 ppm	0.0050 ppm	0.0007 ppm	0.0026 ppm	1.5944 ppm	0.0003 ppm
Concentration per Run 1	-0.0003 ppm	0.0015 ppm	0.0054 ppm	0.0007 ppm	0.0020 ppm	1.6350 ppm	0.0002 ppm
Concentration per Run 2	-0.0002 ppm	-0.0004 ppm	0.0048 ppm	0.0005 ppm	0.0043 ppm	1.5986 ppm	-0.0006 ppm
Concentration per Run 3	-0.0005 ppm	0.0007 ppm	0.0048 ppm	0.0008 ppm	0.0014 ppm	1.5495 ppm	0.0012 ppm
Concentration RSD	54.0 %	154.4 %	6.5 %	20.0 %	58.2 %	2.7 %	331.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.7094 ppm	0.0033 ppm	0.0004 ppm	124.1163 ppm	0.0010 ppm	0.0000 ppm	0.0070 ppm
Concentration per Run 1	0.7093 ppm	0.0034 ppm	0.0005 ppm	124.7619 ppm	0.0013 ppm	-0.0004 ppm	0.0079 ppm
Concentration per Run 2	0.7112 ppm	0.0030 ppm	-0.0002 ppm	124.4090 ppm	0.0000 ppm	0.0003 ppm	0.0065 ppm
Concentration per Run 3	0.7077 ppm	0.0033 ppm	0.0010 ppm	123.1780 ppm	0.0017 ppm	0.0001 ppm	0.0065 ppm
Concentration RSD	0.2 %	6.3 %	133.1 %	0.7 %	89.6 %	6,447.7 %	11.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0049 ppm	3.4169 ppm	0.0002 ppm	0.1932 ppm	-0.0003 ppm	-0.0001 ppm	0.0016 ppm
Concentration per Run 1	0.0033 ppm	3.4238 ppm	0.0006 ppm	0.1945 ppm	-0.0005 ppm	0.0011 ppm	0.0017 ppm
Concentration per Run 2	0.0070 ppm	3.4147 ppm	-0.0002 ppm	0.1934 ppm	-0.0004 ppm	0.0001 ppm	0.0018 ppm
Concentration per Run 3	0.0043 ppm	3.4120 ppm	0.0002 ppm	0.1916 ppm	-0.0001 ppm	-0.0014 ppm	0.0013 ppm
Concentration RSD	38.6 %	0.2 %	207.1 %	0.8 %	66.4 %	1,335.1 %	15.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	104.5814 %	109.1703 %	98.6872 %	102.2761 %	107.7699 %	102.2286 %
Concentration per Run 1	0.0006 ppm	104.0212 %	108.2732 %	98.7702 %	101.4677 %	106.7910 %	102.3448 %
Concentration per Run 2	0.0006 ppm	104.9563 %	109.8554 %	98.4639 %	102.6470 %	108.3838 %	101.8284 %
Concentration per Run 3	0.0001 ppm	104.7667 %	109.3823 %	98.8275 %	102.7135 %	108.1349 %	102.5127 %
Concentration RSD	68.1 %	0.5 %	0.7 %	0.2 %	0.7 %	0.8 %	0.3 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454053-05 WG1975733
Analysis started at: 9/26/2024 6:41:58 PM
Rack 2
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0063 ppm	0.0025 ppm	0.0126 ppm	0.0506 ppm	0.0001 ppm	75.3155 ppm
Concentration per Run 1	0.0003 ppm	-0.0042 ppm	0.0014 ppm	0.0138 ppm	0.0510 ppm	0.0000 ppm	75.3742 ppm
Concentration per Run 2	0.0006 ppm	-0.0064 ppm	0.0024 ppm	0.0106 ppm	0.0504 ppm	0.0001 ppm	75.3928 ppm
Concentration per Run 3	0.0004 ppm	-0.0083 ppm	0.0037 ppm	0.0133 ppm	0.0505 ppm	0.0000 ppm	75.1796 ppm
Concentration RSD	40.0 %	32.7 %	46.2 %	13.5 %	0.6 %	106.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0010 ppm	0.0007 ppm	0.0050 ppm	0.0030 ppm	1.2545 ppm	0.0008 ppm
Concentration per Run 1	-0.0002 ppm	0.0009 ppm	0.0006 ppm	0.0052 ppm	0.0036 ppm	1.2686 ppm	0.0015 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	0.0006 ppm	0.0049 ppm	0.0043 ppm	1.2559 ppm	0.0003 ppm
Concentration per Run 3	-0.0005 ppm	0.0015 ppm	0.0010 ppm	0.0051 ppm	0.0012 ppm	1.2390 ppm	0.0006 ppm
Concentration RSD	78.7 %	52.3 %	29.7 %	3.5 %	54.9 %	1.2 %	79.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.1800 ppm	0.0396 ppm	0.0002 ppm	122.4391 ppm	0.0008 ppm	0.0059 ppm	0.0058 ppm
Concentration per Run 1	1.1799 ppm	0.0396 ppm	0.0000 ppm	122.7178 ppm	0.0001 ppm	0.0060 ppm	0.0023 ppm
Concentration per Run 2	1.1803 ppm	0.0395 ppm	0.0002 ppm	122.6062 ppm	0.0010 ppm	0.0050 ppm	0.0055 ppm
Concentration per Run 3	1.1798 ppm	0.0398 ppm	0.0003 ppm	121.9934 ppm	0.0014 ppm	0.0067 ppm	0.0097 ppm
Concentration RSD	0.0 %	0.4 %	103.6 %	0.3 %	77.6 %	14.4 %	63.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0040 ppm	2.1146 ppm	-0.0016 ppm	0.2915 ppm	-0.0003 ppm	0.0005 ppm	0.0010 ppm
Concentration per Run 1	0.0058 ppm	2.1198 ppm	-0.0012 ppm	0.2937 ppm	-0.0003 ppm	0.0014 ppm	0.0012 ppm
Concentration per Run 2	0.0023 ppm	2.1071 ppm	-0.0015 ppm	0.2890 ppm	-0.0006 ppm	0.0001 ppm	0.0011 ppm
Concentration per Run 3	0.0039 ppm	2.1170 ppm	-0.0022 ppm	0.2918 ppm	0.0002 ppm	0.0002 ppm	0.0008 ppm
Concentration RSD	43.2 %	0.3 %	30.8 %	0.8 %	150.9 %	133.0 %	21.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0133 ppm	108.7189 %	110.5321 %	101.6034 %	107.3176 %	109.2425 %	105.8265 %
Concentration per Run 1	0.0133 ppm	108.9837 %	111.1578 %	101.8200 %	107.6505 %	109.6473 %	105.8231 %
Concentration per Run 2	0.0133 ppm	108.6000 %	110.5992 %	101.0078 %	107.1605 %	109.4888 %	105.4419 %
Concentration per Run 3	0.0133 ppm	108.5731 %	109.8393 %	101.9823 %	107.1420 %	108.5914 %	106.2144 %
Concentration RSD	0.1 %	0.2 %	0.6 %	0.5 %	0.3 %	0.5 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454053-06 WG1975733
Analysis started at: 9/26/2024 6:45:54 PM
Rack 2
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0085 ppm	0.0001 ppm	0.0089 ppm	0.0204 ppm	0.0001 ppm	75.6352 ppm
Concentration per Run 1	0.0006 ppm	-0.0128 ppm	0.0025 ppm	0.0113 ppm	0.0204 ppm	0.0001 ppm	75.3847 ppm
Concentration per Run 2	0.0006 ppm	-0.0087 ppm	-0.0031 ppm	0.0078 ppm	0.0203 ppm	0.0000 ppm	75.7860 ppm
Concentration per Run 3	0.0002 ppm	-0.0039 ppm	0.0009 ppm	0.0075 ppm	0.0205 ppm	0.0000 ppm	75.7350 ppm
Concentration RSD	53.7 %	52.6 %	3,314.7 %	23.8 %	0.3 %	44.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0005 ppm	0.0003 ppm	0.0007 ppm	-0.0005 ppm	1.1224 ppm	0.0003 ppm
Concentration per Run 1	-0.0004 ppm	0.0011 ppm	0.0004 ppm	0.0004 ppm	0.0004 ppm	1.1517 ppm	0.0014 ppm
Concentration per Run 2	-0.0005 ppm	0.0005 ppm	0.0002 ppm	0.0009 ppm	-0.0023 ppm	1.1114 ppm	0.0007 ppm
Concentration per Run 3	-0.0005 ppm	-0.0002 ppm	0.0002 ppm	0.0008 ppm	0.0005 ppm	1.1042 ppm	-0.0013 ppm
Concentration RSD	10.2 %	143.6 %	53.3 %	38.2 %	344.3 %	2.3 %	533.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.9409 ppm	0.0201 ppm	0.0005 ppm	120.9403 ppm	0.0008 ppm	0.0018 ppm	0.0059 ppm
Concentration per Run 1	0.9450 ppm	0.0202 ppm	0.0005 ppm	120.9512 ppm	0.0006 ppm	0.0026 ppm	0.0063 ppm
Concentration per Run 2	0.9413 ppm	0.0202 ppm	0.0007 ppm	120.7409 ppm	0.0011 ppm	0.0009 ppm	0.0034 ppm
Concentration per Run 3	0.9363 ppm	0.0199 ppm	0.0004 ppm	121.1290 ppm	0.0006 ppm	0.0019 ppm	0.0079 ppm
Concentration RSD	0.5 %	0.8 %	22.9 %	0.2 %	38.2 %	47.0 %	39.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0055 ppm	1.9194 ppm	-0.0017 ppm	0.1805 ppm	-0.0003 ppm	0.0004 ppm	0.0010 ppm
Concentration per Run 1	0.0060 ppm	1.9109 ppm	-0.0023 ppm	0.1802 ppm	-0.0005 ppm	0.0006 ppm	0.0008 ppm
Concentration per Run 2	0.0053 ppm	1.9337 ppm	-0.0011 ppm	0.1806 ppm	-0.0004 ppm	0.0011 ppm	0.0010 ppm
Concentration per Run 3	0.0052 ppm	1.9136 ppm	-0.0016 ppm	0.1806 ppm	-0.0002 ppm	-0.0004 ppm	0.0012 ppm
Concentration RSD	8.0 %	0.6 %	34.6 %	0.1 %	47.0 %	179.1 %	20.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	108.6365 %	110.6097 %	101.9615 %	107.5803 %	109.8178 %	106.8986 %
Concentration per Run 1	0.0008 ppm	109.2737 %	110.2391 %	102.0945 %	108.3740 %	109.2609 %	107.1735 %
Concentration per Run 2	0.0008 ppm	108.1207 %	111.2450 %	101.9832 %	106.8890 %	110.6604 %	107.0354 %
Concentration per Run 3	0.0010 ppm	108.5151 %	110.3448 %	101.8069 %	107.4779 %	109.5320 %	106.4870 %
Concentration RSD	12.7 %	0.5 %	0.5 %	0.1 %	0.7 %	0.7 %	0.3 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2452542-01 WG1975733
Analysis started at: 9/26/2024 6:49:49 PM
Rack 2
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0030 ppm	-0.0004 ppm	0.0247 ppm	0.0342 ppm	0.0001 ppm	3.4722 ppm
Concentration per Run 1	0.0010 ppm	0.0015 ppm	0.0000 ppm	0.0250 ppm	0.0341 ppm	0.0001 ppm	3.4803 ppm
Concentration per Run 2	0.0007 ppm	0.0024 ppm	-0.0003 ppm	0.0238 ppm	0.0344 ppm	0.0001 ppm	3.4521 ppm
Concentration per Run 3	0.0004 ppm	0.0052 ppm	-0.0008 ppm	0.0252 ppm	0.0342 ppm	0.0001 ppm	3.4842 ppm
Concentration RSD	47.8 %	64.2 %	99.7 %	3.0 %	0.5 %	35.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0010 ppm	-0.0002 ppm	0.0018 ppm	0.0022 ppm	0.3163 ppm	-0.0010 ppm
Concentration per Run 1	0.0002 ppm	0.0006 ppm	-0.0003 ppm	0.0018 ppm	0.0019 ppm	0.3556 ppm	-0.0020 ppm
Concentration per Run 2	0.0003 ppm	0.0016 ppm	-0.0002 ppm	0.0019 ppm	0.0036 ppm	0.2819 ppm	-0.0009 ppm
Concentration per Run 3	0.0002 ppm	0.0008 ppm	-0.0001 ppm	0.0017 ppm	0.0012 ppm	0.3113 ppm	-0.0002 ppm
Concentration RSD	40.3 %	53.6 %	34.6 %	7.3 %	54.4 %	11.7 %	89.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.3265 ppm	0.0120 ppm	0.0000 ppm	123.2162 ppm	0.0000 ppm	0.0109 ppm	0.0059 ppm
Concentration per Run 1	0.3267 ppm	0.0120 ppm	0.0007 ppm	123.2756 ppm	0.0005 ppm	0.0104 ppm	0.0066 ppm
Concentration per Run 2	0.3224 ppm	0.0120 ppm	-0.0004 ppm	122.8517 ppm	-0.0003 ppm	0.0097 ppm	0.0040 ppm
Concentration per Run 3	0.3305 ppm	0.0120 ppm	-0.0001 ppm	123.5214 ppm	-0.0003 ppm	0.0127 ppm	0.0071 ppm
Concentration RSD	1.2 %	0.2 %	1,358.2 %	0.3 %	5,054.0 %	14.0 %	28.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0054 ppm	0.2321 ppm	-0.0015 ppm	0.0182 ppm	-0.0006 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 1	-0.0015 ppm	0.2286 ppm	-0.0018 ppm	0.0182 ppm	-0.0007 ppm	0.0019 ppm	0.0000 ppm
Concentration per Run 2	0.0064 ppm	0.2322 ppm	-0.0011 ppm	0.0183 ppm	-0.0004 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 3	0.0114 ppm	0.2354 ppm	-0.0016 ppm	0.0181 ppm	-0.0006 ppm	0.0001 ppm	0.0001 ppm
Concentration RSD	119.4 %	1.5 %	23.7 %	0.5 %	20.2 %	133.6 %	124.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0704 ppm	110.2063 %	111.3714 %	104.5252 %	109.2222 %	110.2517 %	108.2207 %
Concentration per Run 1	0.0705 ppm	109.8384 %	111.7595 %	104.1833 %	109.1105 %	111.0782 %	108.2159 %
Concentration per Run 2	0.0699 ppm	110.3446 %	111.4032 %	103.7846 %	109.2079 %	109.8690 %	107.5818 %
Concentration per Run 3	0.0708 ppm	110.4357 %	110.9514 %	105.6076 %	109.3483 %	109.8079 %	108.8644 %
Concentration RSD	0.6 %	0.3 %	0.4 %	0.9 %	0.1 %	0.6 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454053-01d2 WG1975918
Analysis started at: 9/26/2024 6:53:44 PM
Rack 2
Vial 1
Comment ng

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	104.6584 ppm	0.0482 ppm	0.0851 ppm	1.3787 ppm	0.0051 ppm	**849.4621 ppm**
Concentration per Run 1	0.0011 ppm	104.5456 ppm	0.0533 ppm	0.0873 ppm	1.3751 ppm	0.0051 ppm	851.6470 ppm
Concentration per Run 2	0.0016 ppm	105.1647 ppm	0.0446 ppm	0.0844 ppm	1.3803 ppm	0.0051 ppm	852.1105 ppm
Concentration per Run 3	0.0010 ppm	104.2651 ppm	0.0467 ppm	0.0834 ppm	1.3806 ppm	0.0051 ppm	844.6288 ppm
Concentration RSD	26.0 %	0.4 %	9.4 %	2.4 %	0.2 %	0.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0037 ppm	0.1371 ppm	0.1728 ppm	0.2215 ppm	171.4428 ppm	16.7454 ppm	0.1795 ppm
Concentration per Run 1	-0.0037 ppm	0.1380 ppm	0.1721 ppm	0.2223 ppm	171.4362 ppm	16.6795 ppm	0.1782 ppm
Concentration per Run 2	-0.0038 ppm	0.1367 ppm	0.1739 ppm	0.2208 ppm	171.5866 ppm	16.7754 ppm	0.1794 ppm
Concentration per Run 3	-0.0037 ppm	0.1367 ppm	0.1726 ppm	0.2214 ppm	171.3057 ppm	16.7814 ppm	0.1809 ppm
Concentration RSD	1.8 %	0.6 %	0.5 %	0.4 %	0.1 %	0.3 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	66.1623 ppm	4.4952 ppm	0.0035 ppm	3.9086 ppm	0.1429 ppm	0.0787 ppm	0.0032 ppm
Concentration per Run 1	66.2313 ppm	4.4882 ppm	0.0035 ppm	3.9147 ppm	0.1433 ppm	0.0789 ppm	0.0042 ppm
Concentration per Run 2	66.1317 ppm	4.5190 ppm	0.0035 ppm	3.9152 ppm	0.1422 ppm	0.0801 ppm	0.0008 ppm
Concentration per Run 3	66.1239 ppm	4.4784 ppm	0.0036 ppm	3.8959 ppm	0.1432 ppm	0.0772 ppm	0.0045 ppm
Concentration RSD	0.1 %	0.5 %	1.6 %	0.3 %	0.4 %	1.8 %	63.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	4.7996 ppm	0.0026 ppm	2.5426 ppm	1.7676 ppm	0.0041 ppm	0.1814 ppm
Concentration per Run 1	0.0003 ppm	4.8328 ppm	0.0017 ppm	2.5405 ppm	1.7650 ppm	0.0039 ppm	0.1819 ppm
Concentration per Run 2	0.0047 ppm	4.7738 ppm	0.0036 ppm	2.5431 ppm	1.7734 ppm	0.0042 ppm	0.1811 ppm
Concentration per Run 3	0.0004 ppm	4.7921 ppm	0.0024 ppm	2.5441 ppm	1.7646 ppm	0.0042 ppm	0.1812 ppm
Concentration RSD	139.5 %	0.6 %	37.8 %	0.1 %	0.3 %	4.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4648 ppm	105.7915 %	110.5778 %	93.6027 %	129.8923 %	136.6745 %	128.5940 %
Concentration per Run 1	0.4651 ppm	105.4760 %	110.9895 %	93.8456 %	129.5881 %	137.7227 %	128.9951 %
Concentration per Run 2	0.4654 ppm	105.1388 %	110.2898 %	93.3948 %	128.9540 %	136.3129 %	128.2209 %
Concentration per Run 3	0.4640 ppm	106.7597 %	110.4541 %	93.5678 %	131.1349 %	135.9877 %	128.5661 %
Concentration RSD	0.2 %	0.8 %	0.3 %	0.2 %	0.9 %	0.7 %	0.3 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: eL2454053-02d2 WG1975918
Analysis started at: 9/26/2024 6:57:38 PM
Rack 2
Vial 2
Comment ng

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	70.0977 ppm	0.0951 ppm	0.0905 ppm	1.4275 ppm	0.0041 ppm	1,365.8422 ppm
Concentration per Run 1	0.0010 ppm	69.8771 ppm	0.0953 ppm	0.0908 ppm	1.4256 ppm	0.0040 ppm	1,362.4348 ppm
Concentration per Run 2	0.0011 ppm	70.3214 ppm	0.0946 ppm	0.0888 ppm	1.4278 ppm	0.0041 ppm	1,364.8109 ppm
Concentration per Run 3	0.0015 ppm	70.0946 ppm	0.0953 ppm	0.0919 ppm	1.4290 ppm	0.0042 ppm	1,370.2809 ppm
Concentration RSD	19.8 %	0.3 %	0.5 %	1.7 %	0.1 %	2.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0067 ppm	0.0662 ppm	0.1221 ppm	0.4475 ppm	122.0746 ppm	14.3267 ppm	0.0740 ppm
Concentration per Run 1	-0.0065 ppm	0.0658 ppm	0.1223 ppm	0.4459 ppm	121.4949 ppm	14.3505 ppm	0.0739 ppm
Concentration per Run 2	-0.0066 ppm	0.0654 ppm	0.1224 ppm	0.4480 ppm	121.5825 ppm	14.3234 ppm	0.0714 ppm
Concentration per Run 3	-0.0069 ppm	0.0674 ppm	0.1217 ppm	0.4485 ppm	123.1462 ppm	14.3063 ppm	0.0766 ppm
Concentration RSD	2.6 %	1.6 %	0.3 %	0.3 %	0.8 %	0.2 %	3.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	348.7685 ppm	3.2892 ppm	0.0074 ppm	3.3995 ppm	0.1230 ppm	0.0768 ppm	0.0061 ppm
Concentration per Run 1	348.6505 ppm	3.2719 ppm	0.0072 ppm	3.3849 ppm	0.1235 ppm	0.0772 ppm	0.0076 ppm
Concentration per Run 2	348.9724 ppm	3.2865 ppm	0.0072 ppm	3.3951 ppm	0.1224 ppm	0.0742 ppm	0.0053 ppm
Concentration per Run 3	348.6825 ppm	3.3091 ppm	0.0078 ppm	3.4185 ppm	0.1231 ppm	0.0788 ppm	0.0053 ppm
Concentration RSD	0.1 %	0.6 %	5.0 %	0.5 %	0.5 %	3.0 %	21.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	27.6685 ppm	0.0060 ppm	3.0176 ppm	2.1543 ppm	0.0051 ppm	0.1345 ppm
Concentration per Run 1	0.0015 ppm	27.6898 ppm	0.0047 ppm	3.0087 ppm	2.1616 ppm	0.0055 ppm	0.1338 ppm
Concentration per Run 2	-0.0067 ppm	27.6082 ppm	0.0066 ppm	3.0115 ppm	2.1523 ppm	0.0058 ppm	0.1353 ppm
Concentration per Run 3	-0.0003 ppm	27.7076 ppm	0.0066 ppm	3.0325 ppm	2.1490 ppm	0.0038 ppm	0.1344 ppm
Concentration RSD	233.7 %	0.2 %	18.2 %	0.4 %	0.3 %	21.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4298 ppm	100.9673 %	109.3487 %	87.4347 %	117.4040 %	127.3390 %	115.2362 %
Concentration per Run 1	0.4307 ppm	100.5153 %	110.0118 %	87.3475 %	116.6974 %	128.3947 %	115.3036 %
Concentration per Run 2	0.4300 ppm	101.3798 %	108.5190 %	87.2921 %	117.8184 %	126.0604 %	114.7417 %
Concentration per Run 3	0.4287 ppm	101.0069 %	109.5153 %	87.6644 %	117.6962 %	127.5621 %	115.6633 %
Concentration RSD	0.2 %	0.4 %	0.7 %	0.2 %	0.5 %	0.9 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454053-03d2 WG1975918
Analysis started at: 9/26/2024 7:01:33 PM
Rack 2
Vial 3
Comment ng

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0022 ppm	71.1512 ppm	0.0424 ppm	0.0854 ppm	0.6783 ppm	0.0037 ppm	**820.8834 ppm**
Concentration per Run 1	0.0028 ppm	71.1590 ppm	0.0398 ppm	0.0864 ppm	0.6778 ppm	0.0037 ppm	821.1100 ppm
Concentration per Run 2	0.0020 ppm	71.1438 ppm	0.0462 ppm	0.0836 ppm	0.6801 ppm	0.0036 ppm	818.9607 ppm
Concentration per Run 3	0.0018 ppm	71.1508 ppm	0.0411 ppm	0.0863 ppm	0.6769 ppm	0.0037 ppm	822.5795 ppm
Concentration RSD	23.8 %	0.0 %	7.9 %	1.9 %	0.2 %	1.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0012 ppm	0.0617 ppm	0.2896 ppm	1.4294 ppm	144.0418 ppm	10.7088 ppm	0.1122 ppm
Concentration per Run 1	-0.0011 ppm	0.0620 ppm	0.2902 ppm	1.4366 ppm	143.9055 ppm	10.7220 ppm	0.1116 ppm
Concentration per Run 2	-0.0015 ppm	0.0620 ppm	0.2889 ppm	1.4234 ppm	144.0377 ppm	10.7230 ppm	0.1119 ppm
Concentration per Run 3	-0.0012 ppm	0.0612 ppm	0.2896 ppm	1.4283 ppm	144.1821 ppm	10.6813 ppm	0.1131 ppm
Concentration RSD	17.8 %	0.7 %	0.2 %	0.5 %	0.1 %	0.2 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	98.4483 ppm	3.6855 ppm	0.0138 ppm	2.7684 ppm	0.1682 ppm	0.0861 ppm	0.0095 ppm
Concentration per Run 1	98.4781 ppm	3.6876 ppm	0.0138 ppm	2.7715 ppm	0.1676 ppm	0.0856 ppm	0.0065 ppm
Concentration per Run 2	98.1701 ppm	3.6922 ppm	0.0132 ppm	2.7627 ppm	0.1678 ppm	0.0865 ppm	0.0180 ppm
Concentration per Run 3	98.6968 ppm	3.6768 ppm	0.0146 ppm	2.7711 ppm	0.1693 ppm	0.0864 ppm	0.0040 ppm
Concentration RSD	0.3 %	0.2 %	5.0 %	0.2 %	0.6 %	0.6 %	78.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0035 ppm	6.6486 ppm	0.0088 ppm	1.9198 ppm	1.6996 ppm	0.0026 ppm	0.1474 ppm
Concentration per Run 1	0.0073 ppm	6.7220 ppm	0.0100 ppm	1.9191 ppm	1.6994 ppm	0.0018 ppm	0.1476 ppm
Concentration per Run 2	-0.0012 ppm	6.6310 ppm	0.0089 ppm	1.9236 ppm	1.6969 ppm	0.0025 ppm	0.1478 ppm
Concentration per Run 3	0.0045 ppm	6.5927 ppm	0.0076 ppm	1.9167 ppm	1.7024 ppm	0.0034 ppm	0.1468 ppm
Concentration RSD	121.9 %	1.0 %	13.5 %	0.2 %	0.2 %	31.4 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2350 ppm	105.2342 %	111.2360 %	92.7812 %	118.4013 %	125.7900 %	116.0217 %
Concentration per Run 1	1.2363 ppm	105.7629 %	111.8378 %	92.0132 %	119.4368 %	126.5363 %	115.6564 %
Concentration per Run 2	1.2250 ppm	106.2582 %	111.2455 %	93.3305 %	119.5703 %	125.3263 %	116.5449 %
Concentration per Run 3	1.2437 ppm	103.6814 %	110.6246 %	92.9998 %	116.1967 %	125.5074 %	115.8636 %
Concentration RSD	0.8 %	1.3 %	0.5 %	0.7 %	1.6 %	0.5 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454053-04d2 WG1975918
Analysis started at: 9/26/2024 7:05:27 PM
Rack 2
Vial 4
Comment ng

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	90.6446 ppm	0.0663 ppm	0.0989 ppm	1.0420 ppm	0.0039 ppm	**546.2170 ppm**
Concentration per Run 1	0.0009 ppm	90.4816 ppm	0.0672 ppm	0.0969 ppm	1.0426 ppm	0.0039 ppm	545.4855 ppm
Concentration per Run 2	0.0010 ppm	90.6989 ppm	0.0651 ppm	0.0991 ppm	1.0391 ppm	0.0039 ppm	546.5698 ppm
Concentration per Run 3	0.0008 ppm	90.7532 ppm	0.0667 ppm	0.1006 ppm	1.0441 ppm	0.0039 ppm	546.5956 ppm
Concentration RSD	14.4 %	0.2 %	1.6 %	1.9 %	0.2 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0023 ppm	0.0890 ppm	0.2064 ppm	0.5986 ppm	169.1342 ppm	12.8463 ppm	0.1572 ppm
Concentration per Run 1	0.0022 ppm	0.0892 ppm	0.2052 ppm	0.5991 ppm	168.8071 ppm	12.8885 ppm	0.1560 ppm
Concentration per Run 2	0.0026 ppm	0.0885 ppm	0.2075 ppm	0.5980 ppm	168.9068 ppm	12.8049 ppm	0.1573 ppm
Concentration per Run 3	0.0021 ppm	0.0894 ppm	0.2064 ppm	0.5987 ppm	169.6886 ppm	12.8456 ppm	0.1584 ppm
Concentration RSD	11.1 %	0.6 %	0.6 %	0.1 %	0.3 %	0.3 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	42.2583 ppm	3.2793 ppm	0.0038 ppm	3.6524 ppm	0.1306 ppm	0.1590 ppm	0.0039 ppm
Concentration per Run 1	42.1386 ppm	3.2786 ppm	0.0030 ppm	3.6447 ppm	0.1302 ppm	0.1588 ppm	-0.0005 ppm
Concentration per Run 2	42.3207 ppm	3.2820 ppm	0.0039 ppm	3.6403 ppm	0.1304 ppm	0.1587 ppm	0.0055 ppm
Concentration per Run 3	42.3157 ppm	3.2773 ppm	0.0044 ppm	3.6722 ppm	0.1312 ppm	0.1595 ppm	0.0066 ppm
Concentration RSD	0.2 %	0.1 %	18.8 %	0.5 %	0.4 %	0.3 %	98.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0029 ppm	6.3942 ppm	0.0086 ppm	1.2622 ppm	4.6294 ppm	0.0046 ppm	0.1918 ppm
Concentration per Run 1	0.0055 ppm	6.3867 ppm	0.0086 ppm	1.2628 ppm	4.6020 ppm	0.0045 ppm	0.1922 ppm
Concentration per Run 2	0.0022 ppm	6.4632 ppm	0.0092 ppm	1.2590 ppm	4.6502 ppm	0.0062 ppm	0.1917 ppm
Concentration per Run 3	0.0012 ppm	6.3326 ppm	0.0081 ppm	1.2647 ppm	4.6359 ppm	0.0031 ppm	0.1915 ppm
Concentration RSD	76.7 %	1.0 %	6.2 %	0.2 %	0.5 %	33.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	7.9131 ppm	107.7861 %	112.6829 %	98.2433 %	130.2645 %	136.2980 %	128.9379 %
Concentration per Run 1	7.8675 ppm	107.9804 %	113.5864 %	97.8227 %	130.5458 %	136.8521 %	128.6198 %
Concentration per Run 2	7.9408 ppm	107.8214 %	112.0561 %	98.8081 %	130.1332 %	135.4553 %	129.1578 %
Concentration per Run 3	7.9309 ppm	107.5564 %	112.4062 %	98.0989 %	130.1146 %	136.5867 %	129.0359 %
Concentration RSD	0.5 %	0.2 %	0.7 %	0.5 %	0.2 %	0.5 %	0.2 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454053-05d2 WG1975918
Analysis started at: 9/26/2024 7:09:21 PM
Rack 2
Vial 5
Comment ng

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	77.1559 ppm	0.0401 ppm	0.0784 ppm	1.1050 ppm	0.0045 ppm	**911.3942 ppm**
Concentration per Run 1	0.0002 ppm	77.4385 ppm	0.0389 ppm	0.0798 ppm	1.1052 ppm	0.0045 ppm	906.0945 ppm
Concentration per Run 2	0.0004 ppm	76.5354 ppm	0.0408 ppm	0.0792 ppm	1.1069 ppm	0.0045 ppm	912.1694 ppm
Concentration per Run 3	0.0012 ppm	77.4938 ppm	0.0406 ppm	0.0762 ppm	1.1029 ppm	0.0044 ppm	915.9186 ppm
Concentration RSD	91.7 %	0.7 %	2.6 %	2.5 %	0.2 %	1.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0026 ppm	0.0369 ppm	0.1186 ppm	1.7643 ppm	126.2110 ppm	10.5928 ppm	0.0956 ppm
Concentration per Run 1	-0.0029 ppm	0.0367 ppm	0.1190 ppm	1.7755 ppm	125.5679 ppm	10.6188 ppm	0.0943 ppm
Concentration per Run 2	-0.0024 ppm	0.0369 ppm	0.1192 ppm	1.7633 ppm	127.1643 ppm	10.5710 ppm	0.0963 ppm
Concentration per Run 3	-0.0024 ppm	0.0370 ppm	0.1175 ppm	1.7542 ppm	125.9007 ppm	10.5886 ppm	0.0961 ppm
Concentration RSD	10.7 %	0.5 %	0.8 %	0.6 %	0.7 %	0.2 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	178.2412 ppm	2.7211 ppm	0.0057 ppm	2.6402 ppm	0.0934 ppm	0.0575 ppm	0.0069 ppm
Concentration per Run 1	178.8508 ppm	2.7124 ppm	0.0052 ppm	2.6330 ppm	0.0923 ppm	0.0557 ppm	0.0110 ppm
Concentration per Run 2	178.4295 ppm	2.7286 ppm	0.0055 ppm	2.6482 ppm	0.0938 ppm	0.0578 ppm	0.0050 ppm
Concentration per Run 3	177.4434 ppm	2.7223 ppm	0.0062 ppm	2.6395 ppm	0.0939 ppm	0.0590 ppm	0.0048 ppm
Concentration RSD	0.4 %	0.3 %	8.6 %	0.3 %	0.9 %	2.9 %	51.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	17.8064 ppm	0.0079 ppm	2.5746 ppm	2.9775 ppm	0.0045 ppm	0.1696 ppm
Concentration per Run 1	0.0014 ppm	17.7716 ppm	0.0076 ppm	2.5701 ppm	2.9830 ppm	0.0039 ppm	0.1705 ppm
Concentration per Run 2	0.0022 ppm	17.8444 ppm	0.0081 ppm	2.5854 ppm	2.9851 ppm	0.0055 ppm	0.1696 ppm
Concentration per Run 3	-0.0008 ppm	17.8032 ppm	0.0079 ppm	2.5682 ppm	2.9644 ppm	0.0039 ppm	0.1688 ppm
Concentration RSD	170.4 %	0.2 %	3.7 %	0.4 %	0.4 %	20.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.6280 ppm	103.7745 %	110.9794 %	92.0372 %	123.8223 %	132.9587 %	121.3793 %
Concentration per Run 1	1.6347 ppm	104.0531 %	112.4895 %	91.8147 %	124.3793 %	134.8107 %	121.0835 %
Concentration per Run 2	1.6326 ppm	103.6892 %	109.4619 %	92.1826 %	123.7877 %	130.8123 %	121.2803 %
Concentration per Run 3	1.6167 ppm	103.5811 %	110.9866 %	92.1143 %	123.2998 %	133.2531 %	121.7740 %
Concentration RSD	0.6 %	0.2 %	1.4 %	0.2 %	0.4 %	1.5 %	0.3 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: eL2454053-06d2 WG1975918
Analysis started at: 9/26/2024 7:13:16 PM
Rack 2
Vial 6
Comment ng

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	54.2797 ppm	0.0736 ppm	0.0831 ppm	0.5060 ppm	0.0030 ppm	2,228.1838 ppm
Concentration per Run 1	-0.0001 ppm	54.2631 ppm	0.0697 ppm	0.0792 ppm	0.5083 ppm	0.0030 ppm	2,229.9057 ppm
Concentration per Run 2	0.0002 ppm	54.2580 ppm	0.0750 ppm	0.0866 ppm	0.5055 ppm	0.0030 ppm	2,226.7320 ppm
Concentration per Run 3	-0.0001 ppm	54.3179 ppm	0.0762 ppm	0.0837 ppm	0.5042 ppm	0.0030 ppm	2,227.9138 ppm
Concentration RSD	3,744.9 %	0.1 %	4.7 %	4.4 %	0.4 %	0.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0110 ppm	0.0302 ppm	0.1357 ppm	0.4605 ppm	102.3679 ppm	8.1582 ppm	0.0675 ppm
Concentration per Run 1	-0.0111 ppm	0.0297 ppm	0.1354 ppm	0.4619 ppm	102.3706 ppm	8.1832 ppm	0.0727 ppm
Concentration per Run 2	-0.0110 ppm	0.0299 ppm	0.1358 ppm	0.4599 ppm	102.0761 ppm	8.1464 ppm	0.0646 ppm
Concentration per Run 3	-0.0110 ppm	0.0309 ppm	0.1357 ppm	0.4597 ppm	102.6570 ppm	8.1449 ppm	0.0651 ppm
Concentration RSD	0.5 %	2.0 %	0.1 %	0.3 %	0.3 %	0.3 %	6.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	112.8189 ppm	1.9671 ppm	0.0091 ppm	2.8234 ppm	0.0987 ppm	0.0892 ppm	0.0115 ppm
Concentration per Run 1	113.2632 ppm	1.9737 ppm	0.0096 ppm	2.8280 ppm	0.0996 ppm	0.0877 ppm	0.0163 ppm
Concentration per Run 2	112.8056 ppm	1.9637 ppm	0.0092 ppm	2.8304 ppm	0.0978 ppm	0.0902 ppm	0.0053 ppm
Concentration per Run 3	112.3879 ppm	1.9637 ppm	0.0084 ppm	2.8118 ppm	0.0985 ppm	0.0897 ppm	0.0128 ppm
Concentration RSD	0.4 %	0.3 %	7.0 %	0.4 %	1.0 %	1.5 %	49.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	24.7949 ppm	0.0076 ppm	5.2028 ppm	1.8143 ppm	0.0040 ppm	0.1044 ppm
Concentration per Run 1	0.0017 ppm	24.8665 ppm	0.0066 ppm	5.2013 ppm	1.8200 ppm	0.0043 ppm	0.1050 ppm
Concentration per Run 2	-0.0034 ppm	24.6374 ppm	0.0089 ppm	5.2049 ppm	1.8142 ppm	0.0065 ppm	0.1037 ppm
Concentration per Run 3	-0.0025 ppm	24.8808 ppm	0.0072 ppm	5.2021 ppm	1.8087 ppm	0.0011 ppm	0.1045 ppm
Concentration RSD	193.5 %	0.6 %	15.6 %	0.0 %	0.3 %	69.3 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6617 ppm	97.1970 %	108.9899 %	83.8922 %	119.8525 %	134.7041 %	117.9446 %
Concentration per Run 1	0.6677 ppm	97.1239 %	108.8916 %	83.3467 %	119.8460 %	134.5647 %	117.1559 %
Concentration per Run 2	0.6597 ppm	97.3829 %	109.5417 %	84.1374 %	119.8687 %	135.4154 %	118.6459 %
Concentration per Run 3	0.6578 ppm	97.0843 %	108.5364 %	84.1924 %	119.8429 %	134.1323 %	118.0320 %
Concentration RSD	0.8 %	0.2 %	0.5 %	0.6 %	0.0 %	0.5 %	0.6 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 7:17:10 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4836 ppm	0.4611 ppm	0.4656 ppm	0.4641 ppm	0.4790 ppm	0.4911 ppm	0.5006 ppm
Concentration per Run 1	0.4828 ppm	0.4589 ppm	0.4672 ppm	0.4645 ppm	0.4769 ppm	0.4888 ppm	0.5038 ppm
Concentration per Run 2	0.4835 ppm	0.4581 ppm	0.4656 ppm	0.4667 ppm	0.4830 ppm	0.4958 ppm	0.4972 ppm
Concentration per Run 3	0.4845 ppm	0.4663 ppm	0.4640 ppm	0.4610 ppm	0.4770 ppm	0.4888 ppm	0.5009 ppm
Recovery Percentage 1	96.717 %	92.223 %	93.120 %	92.814 %	95.796 %	98.224 %	100.126 %
Concentration RSD	0.2 %	1.0 %	0.3 %	0.6 %	0.7 %	0.8 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4917 ppm	0.4975 ppm	0.4740 ppm	0.4724 ppm	0.4842 ppm	4.9642 ppm	0.4630 ppm
Concentration per Run 1	0.4894 ppm	0.4960 ppm	0.4743 ppm	0.4716 ppm	0.4877 ppm	4.9564 ppm	0.4647 ppm
Concentration per Run 2	0.4904 ppm	0.4967 ppm	0.4742 ppm	0.4728 ppm	0.4852 ppm	4.9944 ppm	0.4614 ppm
Concentration per Run 3	0.4954 ppm	0.4997 ppm	0.4735 ppm	0.4727 ppm	0.4798 ppm	4.9417 ppm	0.4628 ppm
Recovery Percentage 1	98.348 %	99.490 %	94.795 %	94.473 %	96.850 %	99.284 %	92.598 %
Concentration RSD	0.6 %	0.4 %	0.1 %	0.1 %	0.8 %	0.5 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4767 ppm	0.4711 ppm	0.4734 ppm	9.4850 ppm	0.4890 ppm	0.4823 ppm	0.4912 ppm
Concentration per Run 1	0.4767 ppm	0.4690 ppm	0.4736 ppm	9.4772 ppm	0.4899 ppm	0.4823 ppm	0.4910 ppm
Concentration per Run 2	0.4758 ppm	0.4724 ppm	0.4707 ppm	9.5100 ppm	0.4885 ppm	0.4839 ppm	0.4890 ppm
Concentration per Run 3	0.4776 ppm	0.4720 ppm	0.4759 ppm	9.4679 ppm	0.4887 ppm	0.4808 ppm	0.4937 ppm
Recovery Percentage 1	95.342 %	94.227 %	94.679 %	94.850 %	97.802 %	96.465 %	98.244 %
Concentration RSD	0.2 %	0.4 %	0.5 %	0.2 %	0.2 %	0.3 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4785 ppm	5.2279 ppm	0.4649 ppm	0.4570 ppm	0.4816 ppm	0.4779 ppm	0.4738 ppm
Concentration per Run 1	0.4786 ppm	5.2154 ppm	0.4690 ppm	0.4553 ppm	0.4811 ppm	0.4782 ppm	0.4721 ppm
Concentration per Run 2	0.4778 ppm	5.2220 ppm	0.4640 ppm	0.4584 ppm	0.4817 ppm	0.4767 ppm	0.4737 ppm
Concentration per Run 3	0.4790 ppm	5.2462 ppm	0.4617 ppm	0.4573 ppm	0.4820 ppm	0.4787 ppm	0.4755 ppm
Recovery Percentage 1	95.695 %	99.578 %	92.979 %	91.404 %	96.318 %	95.572 %	94.757 %
Concentration RSD	0.1 %	0.3 %	0.8 %	0.3 %	0.1 %	0.2 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4891 ppm	112.4987 %	110.7737 %	110.6234 %	111.9590 %	109.8105 %	110.6952 %
Concentration per Run 1	0.4911 ppm	112.8811 %	111.1417 %	110.8712 %	112.4978 %	110.4766 %	110.7868 %
Concentration per Run 2	0.4893 ppm	112.1005 %	110.4427 %	110.7507 %	111.5146 %	109.2835 %	110.9351 %
Concentration per Run 3	0.4869 ppm	112.5146 %	110.7367 %	110.2483 %	111.8645 %	109.6713 %	110.3638 %
Recovery Percentage 1	97.820 %						
Concentration RSD	0.4 %	0.3 %	0.3 %	0.3 %	0.4 %	0.6 %	0.3 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 7:21:05 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	-0.0157 ppm	0.0014 ppm	0.0014 ppm	0.0000 ppm	0.0001 ppm	0.0084 ppm
Concentration per Run 1	0.0011 ppm	-0.0192 ppm	0.0005 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0070 ppm
Concentration per Run 2	0.0002 ppm	-0.0190 ppm	0.0048 ppm	0.0017 ppm	0.0000 ppm	0.0001 ppm	0.0096 ppm
Concentration per Run 3	0.0007 ppm	-0.0090 ppm	-0.0011 ppm	0.0007 ppm	-0.0001 ppm	0.0001 ppm	0.0087 ppm
Recovery Percentage 1	9.514 %	-15.706 %	28.205 %	4.803 %	-0.209 %	2.067 %	8.448 %
Concentration RSD	66.2 %	37.1 %	216.5 %	47.4 %	266.5 %	56.8 %	15.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm	0.0015 ppm	0.0228 ppm	-0.0017 ppm
Concentration per Run 1	-0.0002 ppm	0.0006 ppm	0.0001 ppm	-0.0003 ppm	0.0015 ppm	0.0198 ppm	-0.0024 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0002 ppm	-0.0004 ppm	0.0000 ppm	0.0259 ppm	-0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	0.0004 ppm	0.0002 ppm	0.0030 ppm	0.0226 ppm	-0.0011 ppm
Recovery Percentage 1	-1.605 %	2.541 %	0.901 %	-1.413 %	3.030 %	0.911 %	-34.261 %
Concentration RSD	94.7 %	60.0 %	368.0 %	225.4 %	101.9 %	13.3 %	39.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0013 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0002 ppm	0.0016 ppm	0.0022 ppm
Concentration per Run 1	0.0029 ppm	0.0000 ppm	0.0016 ppm	0.0027 ppm	-0.0002 ppm	0.0015 ppm	0.0004 ppm
Concentration per Run 2	0.0024 ppm	-0.0001 ppm	0.0002 ppm	-0.0062 ppm	0.0012 ppm	0.0018 ppm	0.0011 ppm
Concentration per Run 3	-0.0015 ppm	0.0001 ppm	0.0003 ppm	0.0038 ppm	-0.0003 ppm	0.0013 ppm	0.0051 ppm
Recovery Percentage 1	1.270 %	-0.245 %	1.418 %	0.004 %	0.962 %	15.592 %	4.380 %
Concentration RSD	187.8 %	468.9 %	111.2 %	7,009.1 %	332.9 %	16.2 %	115.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	-0.0011 ppm	-0.0011 ppm	0.0001 ppm	-0.0004 ppm	0.0009 ppm	0.0002 ppm
Concentration per Run 1	0.0035 ppm	0.0000 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0033 ppm	0.0002 ppm
Concentration per Run 2	0.0033 ppm	-0.0013 ppm	-0.0015 ppm	0.0001 ppm	-0.0003 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0042 ppm	-0.0020 ppm	-0.0011 ppm	0.0003 ppm	-0.0010 ppm	-0.0002 ppm	0.0001 ppm
Recovery Percentage 1	36.451 %	-0.226 %	-2.245 %	1.262 %	-4.305 %	4.408 %	1.843 %
Concentration RSD	13.4 %	88.2 %	34.1 %	89.1 %	121.2 %	234.7 %	43.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0001 ppm	111.8834 %	109.5675 %	111.6885 %	112.8469 %	109.2017 %	112.3817 %
Concentration per Run 1	-0.0002 ppm	111.1704 %	109.4560 %	111.7682 %	111.7992 %	109.1305 %	112.1940 %
Concentration per Run 2	-0.0001 ppm	111.6197 %	110.1686 %	112.2448 %	112.7054 %	109.7723 %	112.8660 %
Concentration per Run 3	0.0000 ppm	112.8601 %	109.0779 %	111.0524 %	114.0361 %	108.7021 %	112.0850 %
Recovery Percentage 1	-2.364 %						
Concentration RSD	119.0 %	0.8 %	0.5 %	0.5 %	1.0 %	0.5 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: L2454280-01 WG1975733
Analysis started at: 9/26/2024 7:25:00 PM
Rack 2
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0154 ppm	0.0007 ppm	0.0078 ppm	0.0587 ppm	0.0001 ppm	46.7822 ppm
Concentration per Run 1	0.0008 ppm	0.0239 ppm	0.0023 ppm	0.0073 ppm	0.0591 ppm	0.0001 ppm	47.1735 ppm
Concentration per Run 2	0.0005 ppm	0.0100 ppm	-0.0024 ppm	0.0085 ppm	0.0589 ppm	0.0001 ppm	47.0250 ppm
Concentration per Run 3	0.0002 ppm	0.0124 ppm	0.0022 ppm	0.0077 ppm	0.0582 ppm	0.0000 ppm	46.1481 ppm
Concentration RSD	55.2 %	48.1 %	367.2 %	7.6 %	0.8 %	50.1 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0023 ppm	0.0005 ppm	0.0066 ppm	0.0124 ppm	0.8846 ppm	-0.0008 ppm
Concentration per Run 1	0.0004 ppm	0.0017 ppm	0.0004 ppm	0.0066 ppm	0.0137 ppm	0.9040 ppm	-0.0008 ppm
Concentration per Run 2	0.0005 ppm	0.0027 ppm	0.0007 ppm	0.0065 ppm	0.0119 ppm	0.8866 ppm	-0.0013 ppm
Concentration per Run 3	0.0004 ppm	0.0024 ppm	0.0005 ppm	0.0068 ppm	0.0116 ppm	0.8630 ppm	-0.0003 ppm
Concentration RSD	15.8 %	24.0 %	33.0 %	2.1 %	9.0 %	2.3 %	66.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.0814 ppm	0.2123 ppm	0.0007 ppm	120.5498 ppm	0.0021 ppm	0.1134 ppm	0.0045 ppm
Concentration per Run 1	1.0723 ppm	0.2132 ppm	0.0008 ppm	121.0511 ppm	0.0024 ppm	0.1130 ppm	0.0017 ppm
Concentration per Run 2	1.0815 ppm	0.2132 ppm	0.0003 ppm	121.3954 ppm	0.0016 ppm	0.1137 ppm	0.0067 ppm
Concentration per Run 3	1.0905 ppm	0.2104 ppm	0.0009 ppm	119.2029 ppm	0.0022 ppm	0.1136 ppm	0.0052 ppm
Concentration RSD	0.8 %	0.8 %	45.0 %	1.0 %	18.5 %	0.3 %	57.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0026 ppm	1.6680 ppm	-0.0010 ppm	0.2409 ppm	-0.0005 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 1	-0.0003 ppm	1.6563 ppm	-0.0005 ppm	0.2422 ppm	0.0000 ppm	-0.0004 ppm	0.0005 ppm
Concentration per Run 2	0.0048 ppm	1.6673 ppm	-0.0010 ppm	0.2418 ppm	-0.0008 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 3	0.0032 ppm	1.6802 ppm	-0.0016 ppm	0.2387 ppm	-0.0008 ppm	-0.0005 ppm	0.0003 ppm
Concentration RSD	102.0 %	0.7 %	52.9 %	0.8 %	83.7 %	449.9 %	92.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2315 ppm	109.2795 %	111.2780 %	104.2534 %	108.2319 %	110.3928 %	108.3412 %
Concentration per Run 1	0.2296 ppm	108.2360 %	110.3834 %	104.7835 %	107.5875 %	109.4003 %	108.8978 %
Concentration per Run 2	0.2319 ppm	110.5209 %	110.9762 %	103.3573 %	109.5802 %	110.4686 %	107.7237 %
Concentration per Run 3	0.2331 ppm	109.0817 %	112.4743 %	104.6194 %	107.5280 %	111.3095 %	108.4020 %
Concentration RSD	0.8 %	1.1 %	1.0 %	0.7 %	1.1 %	0.9 %	0.5 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 7:28:55 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4839 ppm	0.4553 ppm	0.4672 ppm	0.4694 ppm	0.4803 ppm	0.4904 ppm	0.4780 ppm
Concentration per Run 1	0.4870 ppm	0.4530 ppm	0.4652 ppm	0.4700 ppm	0.4787 ppm	0.4891 ppm	0.4769 ppm
Concentration per Run 2	0.4797 ppm	0.4602 ppm	0.4694 ppm	0.4669 ppm	0.4797 ppm	0.4886 ppm	0.4800 ppm
Concentration per Run 3	0.4851 ppm	0.4525 ppm	0.4669 ppm	0.4713 ppm	0.4825 ppm	0.4935 ppm	0.4772 ppm
Recovery Percentage 1	96.790 %	91.052 %	93.436 %	93.878 %	96.060 %	98.077 %	95.608 %
Concentration RSD	0.8 %	0.9 %	0.4 %	0.5 %	0.4 %	0.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4851 ppm	0.4933 ppm	0.4749 ppm	0.4726 ppm	0.4812 ppm	4.9447 ppm	0.4620 ppm
Concentration per Run 1	0.4916 ppm	0.4948 ppm	0.4766 ppm	0.4752 ppm	0.4844 ppm	4.9093 ppm	0.4588 ppm
Concentration per Run 2	0.4835 ppm	0.4943 ppm	0.4724 ppm	0.4700 ppm	0.4786 ppm	4.9529 ppm	0.4603 ppm
Concentration per Run 3	0.4801 ppm	0.4906 ppm	0.4757 ppm	0.4727 ppm	0.4805 ppm	4.9719 ppm	0.4669 ppm
Recovery Percentage 1	97.011 %	98.654 %	94.974 %	94.522 %	96.231 %	98.894 %	92.399 %
Concentration RSD	1.2 %	0.5 %	0.5 %	0.5 %	0.6 %	0.6 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4716 ppm	0.4704 ppm	0.4715 ppm	9.4564 ppm	0.4863 ppm	0.4869 ppm	0.4923 ppm
Concentration per Run 1	0.4732 ppm	0.4697 ppm	0.4694 ppm	9.4067 ppm	0.4888 ppm	0.4848 ppm	0.4968 ppm
Concentration per Run 2	0.4668 ppm	0.4703 ppm	0.4724 ppm	9.5084 ppm	0.4828 ppm	0.4856 ppm	0.4914 ppm
Concentration per Run 3	0.4748 ppm	0.4712 ppm	0.4728 ppm	9.4541 ppm	0.4872 ppm	0.4903 ppm	0.4888 ppm
Recovery Percentage 1	94.318 %	94.086 %	94.308 %	94.564 %	97.257 %	97.384 %	98.465 %
Concentration RSD	0.9 %	0.2 %	0.4 %	0.5 %	0.6 %	0.6 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4794 ppm	5.2020 ppm	0.4638 ppm	0.4575 ppm	0.4810 ppm	0.4800 ppm	0.4729 ppm
Concentration per Run 1	0.4765 ppm	5.2387 ppm	0.4632 ppm	0.4560 ppm	0.4823 ppm	0.4774 ppm	0.4740 ppm
Concentration per Run 2	0.4817 ppm	5.1724 ppm	0.4656 ppm	0.4565 ppm	0.4791 ppm	0.4789 ppm	0.4724 ppm
Concentration per Run 3	0.4799 ppm	5.1948 ppm	0.4627 ppm	0.4599 ppm	0.4816 ppm	0.4835 ppm	0.4724 ppm
Recovery Percentage 1	95.877 %	99.085 %	92.769 %	91.496 %	96.194 %	95.990 %	94.586 %
Concentration RSD	0.6 %	0.6 %	0.3 %	0.5 %	0.4 %	0.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4885 ppm	113.1876 %	111.7791 %	111.2328 %	112.3880 %	110.4183 %	111.1948 %
Concentration per Run 1	0.4907 ppm	112.6661 %	113.0111 %	111.7864 %	111.6561 %	111.9377 %	111.5260 %
Concentration per Run 2	0.4877 ppm	113.4378 %	110.5514 %	111.3152 %	112.9380 %	109.1439 %	111.0557 %
Concentration per Run 3	0.4872 ppm	113.4588 %	111.7747 %	110.5967 %	112.5698 %	110.1733 %	111.0027 %
Recovery Percentage 1	97.704 %						
Concentration RSD	0.4 %	0.4 %	1.1 %	0.5 %	0.6 %	1.3 %	0.3 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 7:32:50 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0080 ppm	0.0005 ppm	0.0027 ppm	0.0000 ppm	0.0000 ppm	0.0053 ppm
Concentration per Run 1	0.0005 ppm	-0.0074 ppm	0.0008 ppm	0.0027 ppm	-0.0002 ppm	0.0001 ppm	0.0065 ppm
Concentration per Run 2	0.0007 ppm	-0.0052 ppm	-0.0026 ppm	0.0025 ppm	0.0001 ppm	0.0001 ppm	0.0056 ppm
Concentration per Run 3	0.0002 ppm	-0.0115 ppm	0.0031 ppm	0.0030 ppm	0.0002 ppm	0.0000 ppm	0.0037 ppm
Recovery Percentage 1	6.903 %	-8.041 %	9.091 %	9.141 %	0.361 %	1.096 %	5.285 %
Concentration RSD	51.9 %	40.0 %	634.7 %	9.3 %	477.4 %	42.1 %	27.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0009 ppm	0.0431 ppm	-0.0019 ppm
Concentration per Run 1	0.0001 ppm	0.0010 ppm	0.0003 ppm	0.0002 ppm	-0.0003 ppm	0.0333 ppm	-0.0011 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0347 ppm	-0.0035 ppm
Concentration per Run 3	0.0002 ppm	0.0008 ppm	-0.0002 ppm	-0.0001 ppm	-0.0024 ppm	0.0614 ppm	-0.0013 ppm
Recovery Percentage 1	1.093 %	3.275 %	0.322 %	-0.622 %	-1.761 %	1.725 %	-38.932 %
Concentration RSD	303.5 %	67.8 %	862.0 %	376.2 %	153.7 %	36.7 %	67.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0012 ppm	0.0001 ppm	0.0010 ppm	0.0063 ppm	-0.0005 ppm	0.0011 ppm	0.0065 ppm
Concentration per Run 1	0.0019 ppm	0.0001 ppm	0.0010 ppm	0.0110 ppm	-0.0010 ppm	0.0016 ppm	0.0068 ppm
Concentration per Run 2	0.0004 ppm	-0.0001 ppm	0.0012 ppm	0.0002 ppm	-0.0001 ppm	0.0015 ppm	0.0105 ppm
Concentration per Run 3	0.0014 ppm	0.0002 ppm	0.0010 ppm	0.0079 ppm	-0.0004 ppm	0.0003 ppm	0.0023 ppm
Recovery Percentage 1	1.250 %	0.513 %	2.061 %	0.317 %	-1.976 %	11.138 %	13.069 %
Concentration RSD	62.9 %	271.3 %	12.8 %	87.7 %	85.1 %	63.2 %	62.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0034 ppm	-0.0004 ppm	-0.0015 ppm	0.0002 ppm	-0.0004 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 1	0.0017 ppm	-0.0024 ppm	-0.0011 ppm	0.0002 ppm	-0.0004 ppm	0.0018 ppm	0.0003 ppm
Concentration per Run 2	0.0034 ppm	0.0014 ppm	-0.0015 ppm	0.0002 ppm	-0.0003 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 3	0.0052 ppm	-0.0002 ppm	-0.0018 ppm	0.0002 ppm	-0.0005 ppm	0.0007 ppm	0.0004 ppm
Recovery Percentage 1	34.154 %	-0.079 %	-2.966 %	1.768 %	-3.907 %	2.686 %	2.224 %
Concentration RSD	51.1 %	480.6 %	24.1 %	4.8 %	33.2 %	250.8 %	80.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0001 ppm	111.5279 %	109.6089 %	110.7819 %	112.8697 %	109.3668 %	111.3458 %
Concentration per Run 1	0.0002 ppm	111.9862 %	109.6514 %	110.9860 %	113.2474 %	109.2061 %	111.6495 %
Concentration per Run 2	-0.0002 ppm	111.7419 %	109.3955 %	110.5423 %	113.5464 %	109.2405 %	111.1046 %
Concentration per Run 3	-0.0002 ppm	110.8556 %	109.7797 %	110.8173 %	111.8152 %	109.6538 %	111.2832 %
Recovery Percentage 1	-1.157 %						
Concentration RSD	363.1 %	0.5 %	0.2 %	0.2 %	0.8 %	0.2 %	0.2 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCV
Analysis started at: 9/26/2024 7:36:45 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4831 ppm	0.4549 ppm	0.4613 ppm	0.4677 ppm	0.4790 ppm	0.4925 ppm	0.4768 ppm
Concentration per Run 1	0.4816 ppm	0.4554 ppm	0.4618 ppm	0.4677 ppm	0.4737 ppm	0.4895 ppm	0.4698 ppm
Concentration per Run 2	0.4840 ppm	0.4321 ppm	0.4616 ppm	0.4693 ppm	0.4570 ppm	0.4676 ppm	0.4557 ppm
Concentration per Run 3	0.4838 ppm	0.4772 ppm	0.4604 ppm	0.4661 ppm	0.5063 ppm	0.5205 ppm	0.5050 ppm
Recovery Percentage 1	96.620 %	90.974 %	92.255 %	93.540 %	95.804 %	98.503 %	95.361 %
Concentration RSD	0.3 %	5.0 %	0.2 %	0.3 %	5.2 %	5.4 %	5.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4860 ppm	0.4951 ppm	0.4742 ppm	0.4740 ppm	0.4824 ppm	4.9837 ppm	0.4629 ppm
Concentration per Run 1	0.4900 ppm	0.4982 ppm	0.4743 ppm	0.4747 ppm	0.4782 ppm	4.9896 ppm	0.4611 ppm
Concentration per Run 2	0.4864 ppm	0.4951 ppm	0.4729 ppm	0.4738 ppm	0.4589 ppm	4.7316 ppm	0.4379 ppm
Concentration per Run 3	0.4817 ppm	0.4920 ppm	0.4753 ppm	0.4736 ppm	0.5100 ppm	5.2298 ppm	0.4898 ppm
Recovery Percentage 1	97.207 %	99.022 %	94.838 %	94.808 %	96.471 %	99.673 %	92.587 %
Concentration RSD	0.9 %	0.6 %	0.3 %	0.1 %	5.3 %	5.0 %	5.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4702 ppm	0.4726 ppm	0.4733 ppm	9.5070 ppm	0.4887 ppm	0.4844 ppm	0.4916 ppm
Concentration per Run 1	0.4728 ppm	0.4707 ppm	0.4748 ppm	9.4286 ppm	0.4912 ppm	0.4827 ppm	0.4946 ppm
Concentration per Run 2	0.4687 ppm	0.4491 ppm	0.4737 ppm	9.0606 ppm	0.4862 ppm	0.4831 ppm	0.4860 ppm
Concentration per Run 3	0.4692 ppm	0.4979 ppm	0.4713 ppm	10.0319 ppm	0.4886 ppm	0.4873 ppm	0.4940 ppm
Recovery Percentage 1	94.049 %	94.513 %	94.651 %	95.070 %	97.731 %	96.873 %	98.312 %
Concentration RSD	0.5 %	5.2 %	0.4 %	5.2 %	0.5 %	0.5 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4787 ppm	5.1991 ppm	0.4647 ppm	0.4581 ppm	0.4793 ppm	0.4791 ppm	0.4720 ppm
Concentration per Run 1	0.4791 ppm	5.2255 ppm	0.4672 ppm	0.4551 ppm	0.4785 ppm	0.4798 ppm	0.4727 ppm
Concentration per Run 2	0.4788 ppm	5.1869 ppm	0.4625 ppm	0.4352 ppm	0.4792 ppm	0.4788 ppm	0.4723 ppm
Concentration per Run 3	0.4782 ppm	5.1848 ppm	0.4645 ppm	0.4838 ppm	0.4801 ppm	0.4786 ppm	0.4712 ppm
Recovery Percentage 1	95.740 %	99.030 %	92.946 %	91.612 %	95.850 %	95.814 %	94.409 %
Concentration RSD	0.1 %	0.4 %	0.5 %	5.3 %	0.2 %	0.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4876 ppm	113.8690 %	110.4016 %	111.3646 %	113.2190 %	109.4314 %	111.0708 %
Concentration per Run 1	0.4908 ppm	113.7300 %	110.9481 %	111.8497 %	113.3330 %	110.4754 %	111.1987 %
Concentration per Run 2	0.4860 ppm	113.5131 %	115.5723 %	110.8009 %	112.6970 %	114.3018 %	110.6265 %
Concentration per Run 3	0.4861 ppm	114.3638 %	104.6845 %	111.4433 %	113.6269 %	103.5169 %	111.3874 %
Recovery Percentage 1	97.527 %						
Concentration RSD	0.6 %	0.4 %	4.9 %	0.5 %	0.4 %	5.0 %	0.4 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: CCB
Analysis started at: 9/26/2024 7:40:40 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0039 ppm	0.0006 ppm	0.0024 ppm	-0.0002 ppm	0.0001 ppm	0.0029 ppm
Concentration per Run 1	0.0007 ppm	-0.0090 ppm	0.0010 ppm	0.0042 ppm	-0.0001 ppm	0.0001 ppm	0.0032 ppm
Concentration per Run 2	0.0005 ppm	0.0000 ppm	-0.0016 ppm	0.0008 ppm	-0.0003 ppm	0.0001 ppm	0.0047 ppm
Concentration per Run 3	0.0002 ppm	-0.0026 ppm	0.0022 ppm	0.0023 ppm	-0.0003 ppm	0.0001 ppm	0.0007 ppm
Recovery Percentage 1	6.460 %	-3.868 %	11.416 %	8.121 %	-2.270 %	1.655 %	2.880 %
Concentration RSD	44.6 %	119.9 %	339.3 %	70.7 %	58.0 %	10.7 %	70.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0013 ppm	0.0362 ppm	-0.0016 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	0.0004 ppm	0.0019 ppm	0.0251 ppm	-0.0008 ppm
Concentration per Run 2	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0013 ppm	0.0342 ppm	-0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0001 ppm	-0.0001 ppm	0.0006 ppm	0.0494 ppm	-0.0027 ppm
Recovery Percentage 1	-1.268 %	-0.368 %	-0.391 %	0.602 %	2.561 %	1.449 %	-31.226 %
Concentration RSD	189.0 %	424.9 %	101.6 %	511.8 %	49.7 %	34.0 %	63.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0007 ppm	-0.0002 ppm	0.0013 ppm	0.0015 ppm	-0.0004 ppm	0.0014 ppm	0.0065 ppm
Concentration per Run 1	0.0009 ppm	-0.0003 ppm	0.0013 ppm	0.0110 ppm	-0.0001 ppm	0.0007 ppm	0.0061 ppm
Concentration per Run 2	-0.0014 ppm	-0.0002 ppm	0.0013 ppm	-0.0024 ppm	-0.0011 ppm	0.0016 ppm	0.0050 ppm
Concentration per Run 3	-0.0016 ppm	0.0000 ppm	0.0014 ppm	-0.0041 ppm	-0.0002 ppm	0.0018 ppm	0.0084 ppm
Recovery Percentage 1	-0.679 %	-1.535 %	2.591 %	0.075 %	-1.787 %	13.956 %	13.004 %
Concentration RSD	204.4 %	109.5 %	3.9 %	548.2 %	119.1 %	41.0 %	27.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0035 ppm	-0.0007 ppm	-0.0015 ppm	0.0001 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.0014 ppm	-0.0007 ppm	-0.0017 ppm	0.0002 ppm	-0.0005 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 2	0.0049 ppm	-0.0028 ppm	-0.0020 ppm	0.0001 ppm	-0.0006 ppm	0.0013 ppm	0.0004 ppm
Concentration per Run 3	0.0042 ppm	0.0015 ppm	-0.0007 ppm	0.0000 ppm	-0.0004 ppm	-0.0008 ppm	0.0001 ppm
Recovery Percentage 1	35.074 %	-0.133 %	-2.940 %	1.062 %	-4.741 %	-0.229 %	1.263 %
Concentration RSD	52.1 %	325.1 %	46.8 %	87.1 %	21.4 %	2,614.0 %	224.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0003 ppm	110.8282 %	109.7731 %	110.4012 %	111.9076 %	110.1511 %	110.9173 %
Concentration per Run 1	-0.0006 ppm	110.7449 %	109.3075 %	111.1669 %	111.8798 %	109.8745 %	111.7416 %
Concentration per Run 2	-0.0003 ppm	111.3254 %	110.4821 %	109.9156 %	112.3342 %	110.5821 %	110.2560 %
Concentration per Run 3	-0.0002 ppm	110.4144 %	109.5298 %	110.1210 %	111.5089 %	109.9966 %	110.7543 %
Recovery Percentage 1	-6.924 %						
Concentration RSD	59.5 %	0.4 %	0.6 %	0.6 %	0.4 %	0.3 %	0.7 %

ICP DataTrace 9

9/27/2024 11:27:32 AM

LabBook: WG1976462_09262024T9.imexp

Sample: LLOQ
Analysis started at: 9/26/2024 7:44:35 PM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	-0.0078 ppm	-0.0002 ppm	0.0029 ppm	-0.0004 ppm	0.0000 ppm	-0.0028 ppm
Concentration per Run 1	0.0012 ppm	-0.0054 ppm	0.0002 ppm	0.0034 ppm	-0.0004 ppm	0.0000 ppm	-0.0038 ppm
Concentration per Run 2	0.0012 ppm	-0.0107 ppm	-0.0002 ppm	0.0022 ppm	-0.0003 ppm	0.0001 ppm	-0.0030 ppm
Concentration per Run 3	0.0013 ppm	-0.0074 ppm	-0.0005 ppm	0.0033 ppm	-0.0004 ppm	0.0000 ppm	-0.0016 ppm
Recovery Percentage 1	25.115 %	-7.805 %	-4.027 %	9.765 %	-3.580 %	0.878 %	-2.786 %
Concentration RSD	4.6 %	34.3 %	173.8 %	23.0 %	10.2 %	24.1 %	39.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0009 ppm	-0.0029 ppm	-0.0027 ppm	0.0819 ppm	-0.0026 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0010 ppm	-0.0029 ppm	-0.0029 ppm	0.0843 ppm	-0.0026 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0008 ppm	-0.0030 ppm	-0.0025 ppm	0.0760 ppm	-0.0026 ppm
Concentration per Run 3	-0.0001 ppm	-0.0003 ppm	0.0010 ppm	-0.0029 ppm	-0.0027 ppm	0.0853 ppm	-0.0025 ppm
Recovery Percentage 1	-1.090 %	-1.524 %	9.248 %	-29.343 %	-5.472 %	3.275 %	-25.572 %
Concentration RSD	73.6 %	29.7 %	8.2 %	2.1 %	7.6 %	6.2 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0013 ppm	0.0002 ppm	0.0000 ppm	-0.0009 ppm	-0.0014 ppm	0.0015 ppm	0.0035 ppm
Concentration per Run 1	0.0014 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0013 ppm	0.0017 ppm	0.0043 ppm
Concentration per Run 2	0.0018 ppm	0.0002 ppm	0.0000 ppm	-0.0007 ppm	-0.0015 ppm	0.0013 ppm	0.0023 ppm
Concentration per Run 3	0.0007 ppm	0.0002 ppm	0.0000 ppm	-0.0019 ppm	-0.0014 ppm	0.0015 ppm	0.0040 ppm
Recovery Percentage 1	1.343 %	2.103 %	0.046 %	-0.044 %	-7.085 %	15.018 %	7.062 %
Concentration RSD	41.6 %	21.4 %	87.2 %	109.6 %	6.3 %	11.5 %	30.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0046 ppm	0.0006 ppm	-0.0029 ppm	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0005 ppm
Concentration per Run 1	0.0045 ppm	0.0084 ppm	-0.0029 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 2	0.0049 ppm	0.0003 ppm	-0.0028 ppm	0.0000 ppm	0.0002 ppm	-0.0005 ppm	0.0005 ppm
Concentration per Run 3	0.0045 ppm	-0.0067 ppm	-0.0030 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0004 ppm
Recovery Percentage 1	46.232 %	0.126 %	-5.754 %	0.468 %	0.391 %	-1.979 %	4.834 %
Concentration RSD	5.2 %	1,203.8 %	4.0 %	64.3 %	49.6 %	53.9 %	7.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	447.9541 %	409.2587 %	481.3704 %	496.8381 %	425.8994 %	553.6416 %
Concentration per Run 1	-0.0002 ppm	451.5027 %	402.9554 %	448.0448 %	461.3684 %	430.5049 %	538.1721 %
Concentration per Run 2	-0.0002 ppm	457.7577 %	407.6451 %	466.9002 %	479.9192 %	424.6128 %	544.2879 %
Concentration per Run 3	-0.0002 ppm	434.6018 %	417.1758 %	529.1663 %	549.2268 %	422.5806 %	578.4649 %
Recovery Percentage 1	-4.125 %						
Concentration RSD	7.9 %	2.7 %	1.8 %	8.8 %	9.3 %	1.0 %	3.9 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: Blank JMF Trace4
Analysis started at: 9/27/2024 9:17:49 AM
Comments <Comment>
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-1.0 %	1.1 %	0.9 %	0.4 %	0.1 %	-1.0 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.7 %	-0.5 %	0.4 %	0.0 %	0.1 %	-0.1 %	-1.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	1.1 %	2.5 %	0.3 %	-0.4 %	-0.1 %	-0.3 %	-0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.6 %	0.0 %	0.3 %	-0.5 %	-0.3 %	-0.2 %	0.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	-0.5 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: ICAL
Analysis started at: 9/27/2024 9:24:12 AM
Comments <Comment>
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0001 ppm	24.3839 ppm	1.0004 ppm	0.9989 ppm	0.9766 ppm	0.9786 ppm	9.7852 ppm
Concentration per Run 2	0.9996 ppm	25.3764 ppm	1.0002 ppm	1.0005 ppm	1.0139 ppm	1.0086 ppm	10.0860 ppm
Concentration per Run 3	1.0004 ppm	25.2397 ppm	0.9993 ppm	1.0006 ppm	1.0094 ppm	1.0128 ppm	10.1289 ppm
Concentration RSD	0.0 %	2.2 %	0.1 %	0.1 %	2.0 %	1.9 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9983 ppm	1.0005 ppm	0.9915 ppm	1.0003 ppm	24.5159 ppm	33.7581 ppm	0.9670 ppm
Concentration per Run 2	1.0019 ppm	0.9995 ppm	1.0054 ppm	1.0000 ppm	25.1804 ppm	36.0341 ppm	1.0310 ppm
Concentration per Run 3	0.9998 ppm	1.0000 ppm	1.0031 ppm	0.9997 ppm	25.3037 ppm	35.2077 ppm	1.0020 ppm
Concentration RSD	0.2 %	0.0 %	0.7 %	0.0 %	1.7 %	3.3 %	3.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0210 ppm	0.9763 ppm	0.9990 ppm	24.1743 ppm	0.9999 ppm	0.9995 ppm	1.0005 ppm
Concentration per Run 2	9.9877 ppm	1.0074 ppm	0.9994 ppm	25.7437 ppm	1.0001 ppm	1.0016 ppm	0.9987 ppm
Concentration per Run 3	9.9912 ppm	1.0163 ppm	1.0016 ppm	25.0820 ppm	1.0000 ppm	0.9990 ppm	1.0008 ppm
Concentration RSD	0.2 %	2.1 %	0.1 %	3.2 %	0.0 %	0.1 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9989 ppm	10.0168 ppm	1.0000 ppm	0.9760 ppm	0.9925 ppm	1.0018 ppm	0.9931 ppm
Concentration per Run 2	1.0029 ppm	9.9882 ppm	1.0015 ppm	1.0139 ppm	1.0057 ppm	0.9993 ppm	1.0050 ppm
Concentration per Run 3	0.9982 ppm	9.9950 ppm	0.9985 ppm	1.0101 ppm	1.0018 ppm	0.9989 ppm	1.0019 ppm
Concentration RSD	0.2 %	0.1 %	0.2 %	2.1 %	0.7 %	0.2 %	0.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.0000 ppm	98.6529 %	96.1208 %	96.0210 %	97.2783 %	83.5776 %	95.4516 %
Concentration per Run 1	0.9981 ppm	100.1318 %	95.8098 %	95.8949 %	99.3011 %	83.4157 %	95.5821 %
Concentration per Run 2	1.0013 ppm	98.6856 %	96.4347 %	96.1167 %	96.8819 %	83.7163 %	95.3268 %
Concentration per Run 3	1.0006 ppm	97.1413 %	96.1180 %	96.0514 %	95.6520 %	83.6006 %	95.4460 %
Concentration RSD	0.2 %	1.5 %	0.3 %	0.1 %	1.9 %	0.2 %	0.1 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: ICV
Analysis started at: 9/27/2024 9:30:11 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5029 ppm	0.4992 ppm	0.5028 ppm	0.5080 ppm	0.4979 ppm	0.5071 ppm	0.5069 ppm
Concentration per Run 1	0.5033 ppm	0.4856 ppm	0.5020 ppm	0.5075 ppm	0.4842 ppm	0.4916 ppm	0.4881 ppm
Concentration per Run 2	0.5043 ppm	0.5027 ppm	0.5036 ppm	0.5090 ppm	0.5035 ppm	0.5147 ppm	0.5182 ppm
Concentration per Run 3	0.5012 ppm	0.5094 ppm	0.5029 ppm	0.5075 ppm	0.5060 ppm	0.5151 ppm	0.5143 ppm
Recovery Percentage 1	100.582 %	99.846 %	100.562 %	101.600 %	99.578 %	101.424 %	101.376 %
Concentration RSD	0.3 %	2.5 %	0.2 %	0.2 %	2.4 %	2.7 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5071 ppm	0.4879 ppm	0.5027 ppm	0.4909 ppm	0.5040 ppm	5.1604 ppm	0.4884 ppm
Concentration per Run 1	0.5074 ppm	0.4868 ppm	0.5025 ppm	0.4908 ppm	0.4894 ppm	5.0370 ppm	0.4760 ppm
Concentration per Run 2	0.5073 ppm	0.4892 ppm	0.5052 ppm	0.4906 ppm	0.5118 ppm	5.2321 ppm	0.4924 ppm
Concentration per Run 3	0.5065 ppm	0.4877 ppm	0.5003 ppm	0.4913 ppm	0.5109 ppm	5.2122 ppm	0.4968 ppm
Recovery Percentage 1	101.412 %	97.575 %	100.532 %	98.175 %	100.801 %	103.209 %	97.677 %
Concentration RSD	0.1 %	0.2 %	0.5 %	0.1 %	2.5 %	2.1 %	2.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5114 ppm	0.4987 ppm	0.5049 ppm	9.7755 ppm	0.4900 ppm	0.4929 ppm	0.4870 ppm
Concentration per Run 1	0.5113 ppm	0.4822 ppm	0.5039 ppm	9.5566 ppm	0.4892 ppm	0.4921 ppm	0.4864 ppm
Concentration per Run 2	0.5121 ppm	0.5070 ppm	0.5051 ppm	9.8529 ppm	0.4910 ppm	0.4937 ppm	0.4873 ppm
Concentration per Run 3	0.5108 ppm	0.5069 ppm	0.5056 ppm	9.9169 ppm	0.4898 ppm	0.4930 ppm	0.4874 ppm
Recovery Percentage 1	102.275 %	99.745 %	100.975 %	97.755 %	97.994 %	98.590 %	97.404 %
Concentration RSD	0.1 %	2.9 %	0.2 %	2.0 %	0.2 %	0.2 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5115 ppm	5.3602 ppm	0.5000 ppm	0.4780 ppm	0.5091 ppm	0.5066 ppm	0.5000 ppm
Concentration per Run 1	0.5112 ppm	5.3504 ppm	0.5000 ppm	0.4649 ppm	0.5088 ppm	0.5064 ppm	0.4997 ppm
Concentration per Run 2	0.5106 ppm	5.3733 ppm	0.5002 ppm	0.4833 ppm	0.5109 ppm	0.5076 ppm	0.5025 ppm
Concentration per Run 3	0.5127 ppm	5.3569 ppm	0.4998 ppm	0.4857 ppm	0.5075 ppm	0.5056 ppm	0.4977 ppm
Recovery Percentage 1	102.297 %	102.098 %	100.002 %	95.593 %	101.818 %	101.311 %	99.997 %
Concentration RSD	0.2 %	0.2 %	0.0 %	2.4 %	0.3 %	0.2 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4815 ppm	100.1045 %	98.6350 %	98.5554 %	99.2807 %	91.5969 %	98.1537 %
Concentration per Run 1	0.4816 ppm	102.2593 %	98.5092 %	98.7261 %	102.5003 %	91.8055 %	98.1130 %
Concentration per Run 2	0.4815 ppm	98.4860 %	98.7833 %	98.5106 %	97.2256 %	91.4987 %	98.1376 %
Concentration per Run 3	0.4813 ppm	99.5682 %	98.6127 %	98.4296 %	98.1161 %	91.4865 %	98.2104 %
Recovery Percentage 1	96.295 %						
Concentration RSD	0.0 %	1.9 %	0.1 %	0.2 %	2.8 %	0.2 %	0.1 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: ICB
Analysis started at: 9/27/2024 9:36:14 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0021 ppm	0.0007 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 1	0.0002 ppm	-0.0031 ppm	0.0012 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 2	0.0002 ppm	-0.0026 ppm	0.0002 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	-0.0017 ppm
Concentration per Run 3	-0.0001 ppm	-0.0007 ppm	0.0008 ppm	0.0010 ppm	-0.0001 ppm	0.0000 ppm	-0.0009 ppm
Recovery Percentage 1	1.429 %	-2.128 %	14.966 %	3.748 %	-0.363 %	-0.161 %	-0.421 %
Concentration RSD	186.7 %	60.4 %	66.0 %	10.6 %	62.8 %	155.6 %	382.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0008 ppm	0.0015 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	-0.0013 ppm	-0.0003 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0008 ppm	0.0014 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0032 ppm	0.0001 ppm
Recovery Percentage 1	-0.395 %	0.071 %	-0.134 %	-1.508 %	-1.530 %	0.058 %	5.912 %
Concentration RSD	29.3 %	883.0 %	686.1 %	18.4 %	67.0 %	118.1 %	65.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0007 ppm	0.0000 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0032 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	0.0010 ppm	0.0000 ppm	0.0005 ppm	-0.0029 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	0.0012 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0006 ppm	-0.0005 ppm
Recovery Percentage 1	0.738 %	0.273 %	0.922 %	0.007 %	-0.292 %	-1.925 %	-0.333 %
Concentration RSD	85.7 %	141.1 %	10.3 %	2,187.1 %	98.9 %	171.1 %	196.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0006 ppm	-0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	-0.0006 ppm	-0.0004 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 2	0.0008 ppm	-0.0009 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 3	0.0015 ppm	-0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm
Recovery Percentage 1	5.883 %	-0.107 %	0.364 %	-0.144 %	1.636 %	1.421 %	-0.456 %
Concentration RSD	182.3 %	59.3 %	201.7 %	112.6 %	66.4 %	58.3 %	297.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	102.7441 %	99.5532 %	99.8558 %	100.8793 %	99.3601 %	98.2885 %
Concentration per Run 1	0.0001 ppm	102.5436 %	99.5262 %	100.6235 %	101.8678 %	100.0638 %	98.3136 %
Concentration per Run 2	0.0000 ppm	104.6391 %	99.1301 %	99.3841 %	102.2241 %	98.7316 %	98.0116 %
Concentration per Run 3	0.0000 ppm	101.0497 %	100.0033 %	99.5597 %	98.5460 %	99.2849 %	98.5403 %
Recovery Percentage 1	1.295 %						
Concentration RSD	98.1 %	1.8 %	0.4 %	0.7 %	2.0 %	0.7 %	0.3 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: LLOQ
Analysis started at: 9/27/2024 9:42:40 AM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0051 ppm	0.1028 ppm	0.0033 ppm	0.0324 ppm	0.0102 ppm	0.0050 ppm	0.1194 ppm
Concentration per Run 1	0.0051 ppm	0.1002 ppm	0.0022 ppm	0.0325 ppm	0.0098 ppm	0.0049 ppm	0.1169 ppm
Concentration per Run 2	0.0052 ppm	0.1038 ppm	0.0041 ppm	0.0323 ppm	0.0103 ppm	0.0051 ppm	0.1197 ppm
Concentration per Run 3	0.0052 ppm	0.1042 ppm	0.0037 ppm	0.0325 ppm	0.0104 ppm	0.0051 ppm	0.1217 ppm
Recovery Percentage 1	102.557 %	102.750 %	66.637 %	108.120 %	101.706 %	100.983 %	119.432 %
Concentration RSD	1.2 %	2.1 %	30.6 %	0.3 %	3.1 %	2.5 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0042 ppm	0.0191 ppm	0.0101 ppm	0.0104 ppm	0.0547 ppm	2.5913 ppm	0.0104 ppm
Concentration per Run 1	0.0042 ppm	0.0190 ppm	0.0099 ppm	0.0104 ppm	0.0530 ppm	2.4967 ppm	0.0099 ppm
Concentration per Run 2	0.0042 ppm	0.0192 ppm	0.0102 ppm	0.0104 ppm	0.0556 ppm	2.6487 ppm	0.0106 ppm
Concentration per Run 3	0.0042 ppm	0.0190 ppm	0.0100 ppm	0.0104 ppm	0.0555 ppm	2.6287 ppm	0.0106 ppm
Recovery Percentage 1	104.853 %	95.365 %	100.574 %	103.757 %	109.358 %	103.654 %	103.790 %
Concentration RSD	0.5 %	0.5 %	1.7 %	0.2 %	2.7 %	3.2 %	4.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1081 ppm	0.0107 ppm	0.0520 ppm	2.0217 ppm	0.0187 ppm	0.0089 ppm	0.0487 ppm
Concentration per Run 1	0.1108 ppm	0.0103 ppm	0.0521 ppm	1.9657 ppm	0.0190 ppm	0.0091 ppm	0.0490 ppm
Concentration per Run 2	0.1065 ppm	0.0106 ppm	0.0518 ppm	2.0486 ppm	0.0188 ppm	0.0090 ppm	0.0489 ppm
Concentration per Run 3	0.1070 ppm	0.0110 ppm	0.0521 ppm	2.0509 ppm	0.0184 ppm	0.0088 ppm	0.0482 ppm
Recovery Percentage 1	108.094 %	106.732 %	103.976 %	101.087 %	93.619 %	89.350 %	97.400 %
Concentration RSD	2.2 %	3.2 %	0.3 %	2.4 %	1.6 %	1.6 %	0.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0101 ppm	0.5168 ppm	0.0527 ppm	0.0098 ppm	0.0524 ppm	0.0201 ppm	0.0105 ppm
Concentration per Run 1	0.0099 ppm	0.5177 ppm	0.0528 ppm	0.0095 ppm	0.0519 ppm	0.0206 ppm	0.0104 ppm
Concentration per Run 2	0.0091 ppm	0.5171 ppm	0.0523 ppm	0.0099 ppm	0.0527 ppm	0.0202 ppm	0.0104 ppm
Concentration per Run 3	0.0114 ppm	0.5155 ppm	0.0531 ppm	0.0100 ppm	0.0525 ppm	0.0193 ppm	0.0106 ppm
Recovery Percentage 1	101.259 %	103.353 %	105.430 %	98.133 %	104.774 %	100.294 %	104.793 %
Concentration RSD	11.6 %	0.2 %	0.8 %	3.0 %	0.8 %	3.3 %	1.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0057 ppm	101.2613 %	100.3653 %	99.8682 %	100.3560 %	95.4510 %	99.7996 %
Concentration per Run 1	0.0056 ppm	102.2479 %	100.2741 %	99.7079 %	103.4262 %	95.2150 %	100.0648 %
Concentration per Run 2	0.0057 ppm	100.7183 %	100.3502 %	99.8387 %	99.0609 %	95.4301 %	99.5427 %
Concentration per Run 3	0.0057 ppm	100.8178 %	100.4716 %	100.0579 %	98.5810 %	95.7081 %	99.7912 %
Recovery Percentage 1	113.474 %						
Concentration RSD	1.2 %	0.8 %	0.1 %	0.2 %	2.7 %	0.3 %	0.3 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: ICSA
Analysis started at: 9/27/2024 9:50:58 AM
Comments <Comment>
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0012 ppm	520.3458 [SIC 500]	-0.0037 ppm	0.0050 ppm	0.0007 ppm	-0.0004 ppm	567.7824 ppm
Concentration per Run 1	0.0011 ppm	517.3591 ppm	-0.0050 ppm	0.0046 ppm	0.0008 ppm	-0.0004 ppm	569.1703 ppm
Concentration per Run 2	0.0012 ppm	521.0103 ppm	-0.0041 ppm	0.0049 ppm	0.0007 ppm	-0.0004 ppm	569.5230 ppm
Concentration per Run 3	0.0013 ppm	522.6679 ppm	-0.0020 ppm	0.0053 ppm	0.0007 ppm	-0.0005 ppm	564.6539 ppm
Recovery Percentage 1	16.996 %	520,345.775 %	-74.709 %	16.518 %	7.360 %	-8.986 %	567,782.363 %
Concentration RSD	5.3 %	0.5 %	41.4 %	7.2 %	2.7 %	4.6 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0025 ppm	0.0014 ppm	0.0016 ppm	0.0010 ppm	186.4220 ppm	0.0011 ppm	-0.0056 ppm
Concentration per Run 1	-0.0026 ppm	0.0012 ppm	0.0014 ppm	0.0009 ppm	184.6359 ppm	-0.0094 ppm	-0.0059 ppm
Concentration per Run 2	-0.0025 ppm	0.0015 ppm	0.0016 ppm	0.0012 ppm	188.7954 ppm	0.0096 ppm	-0.0054 ppm
Concentration per Run 3	-0.0023 ppm	0.0014 ppm	0.0017 ppm	0.0009 ppm	185.8346 ppm	0.0032 ppm	-0.0054 ppm
Recovery Percentage 1	-61.610 %	6.847 %	15.621 %	9.974 %	372,843.974 %	0.046 %	-56.000 %
Concentration RSD	6.0 %	8.3 %	7.7 %	16.1 %	1.1 %	842.1 %	5.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	435.3547 ppm	0.0018 ppm	-0.0008 ppm	0.0222 ppm	-0.0047 ppm	0.0084 ppm	-0.0192 ppm
Concentration per Run 1	437.2199 ppm	0.0017 ppm	-0.0008 ppm	0.0184 ppm	-0.0040 ppm	0.0100 ppm	-0.0221 ppm
Concentration per Run 2	432.1005 ppm	0.0019 ppm	-0.0009 ppm	0.0220 ppm	-0.0051 ppm	0.0072 ppm	-0.0143 ppm
Concentration per Run 3	436.7436 ppm	0.0019 ppm	-0.0007 ppm	0.0263 ppm	-0.0048 ppm	0.0082 ppm	-0.0212 ppm
Recovery Percentage 1	435,354.683 %	18.248 %	-1.629 %	1.111 %	-18.660 %	84.380 %	-38.450 %
Concentration RSD	0.6 %	7.9 %	11.2 %	17.8 %	11.9 %	16.8 %	22.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0023 ppm	0.0030 ppm	0.0026 ppm	0.0002 ppm	-0.0047 ppm	-0.0022 ppm	-0.0028 ppm
Concentration per Run 1	-0.0029 ppm	0.0034 ppm	0.0025 ppm	0.0002 ppm	-0.0047 ppm	-0.0031 ppm	-0.0032 ppm
Concentration per Run 2	0.0000 ppm	0.0030 ppm	0.0030 ppm	0.0002 ppm	-0.0048 ppm	-0.0036 ppm	-0.0028 ppm
Concentration per Run 3	-0.0040 ppm	0.0025 ppm	0.0023 ppm	0.0003 ppm	-0.0045 ppm	0.0000 ppm	-0.0026 ppm
Recovery Percentage 1	-22.753 %	0.595 %	5.226 %	2.017 %	-46.768 %	-11.083 %	-28.440 %
Concentration RSD	89.1 %	16.2 %	15.1 %	21.6 %	3.5 %	87.7 %	11.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0028 ppm	90.3042 %	82.9029 %	82.9552 %	87.7001 %	57.1146 %	81.2891 %
Concentration per Run 1	-0.0026 ppm	90.1960 %	82.8880 %	82.6662 %	88.3228 %	56.5509 %	81.3471 %
Concentration per Run 2	-0.0025 ppm	90.2482 %	83.0731 %	83.2213 %	87.3710 %	57.3814 %	81.3333 %
Concentration per Run 3	-0.0034 ppm	90.4683 %	82.7476 %	82.9782 %	87.4065 %	57.4113 %	81.1869 %
Recovery Percentage 1	-56.952 %						
Concentration RSD	18.2 %	0.2 %	0.2 %	0.3 %	0.6 %	0.9 %	0.1 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: zLLOQ 0.01ppm
Analysis started at: 9/27/2024 10:17:19 AM
Comments <Comment>
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0110 ppm	0.0102 ppm	0.0091 ppm	0.0107 ppm	0.0100 ppm	0.0100 ppm	0.0158 ppm
Concentration per Run 1	0.0113 ppm	0.0090 ppm	0.0086 ppm	0.0107 ppm	0.0097 ppm	0.0096 ppm	0.0133 ppm
Concentration per Run 2	0.0107 ppm	0.0109 ppm	0.0092 ppm	0.0107 ppm	0.0100 ppm	0.0102 ppm	0.0168 ppm
Concentration per Run 3	0.0109 ppm	0.0108 ppm	0.0095 ppm	0.0107 ppm	0.0102 ppm	0.0101 ppm	0.0174 ppm
Recovery Percentage 1	0.000 %	0.000 %	91.074 %	106.900 %	99.948 %	0.000 %	0.000 %
Concentration RSD	2.4 %	10.7 %	5.0 %	0.3 %	2.6 %	3.1 %	14.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0104 ppm	0.0091 ppm	0.0103 ppm	0.0101 ppm	0.0107 ppm	0.0972 ppm	0.0097 ppm
Concentration per Run 1	0.0104 ppm	0.0092 ppm	0.0109 ppm	0.0109 ppm	0.0096 ppm	0.0796 ppm	0.0093 ppm
Concentration per Run 2	0.0104 ppm	0.0092 ppm	0.0103 ppm	0.0099 ppm	0.0116 ppm	0.1032 ppm	0.0099 ppm
Concentration per Run 3	0.0103 ppm	0.0090 ppm	0.0098 ppm	0.0096 ppm	0.0109 ppm	0.1087 ppm	0.0101 ppm
Recovery Percentage 1	0.000 %	91.260 %	103.450 %	101.180 %	0.000 %	0.000 %	97.449 %
Concentration RSD	0.4 %	1.1 %	5.1 %	6.8 %	9.5 %	15.9 %	4.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0129 ppm	0.0102 ppm	0.0100 ppm	0.1949 ppm	0.0092 ppm	0.0094 ppm	0.0092 ppm
Concentration per Run 1	0.0146 ppm	0.0098 ppm	0.0099 ppm	0.1920 ppm	0.0091 ppm	0.0091 ppm	0.0082 ppm
Concentration per Run 2	0.0115 ppm	0.0104 ppm	0.0100 ppm	0.1949 ppm	0.0092 ppm	0.0095 ppm	0.0094 ppm
Concentration per Run 3	0.0126 ppm	0.0104 ppm	0.0100 ppm	0.1977 ppm	0.0093 ppm	0.0095 ppm	0.0099 ppm
Recovery Percentage 1	0.000 %	101.625 %	99.721 %	0.000 %	92.093 %	93.851 %	0.000 %
Concentration RSD	12.3 %	3.5 %	0.7 %	1.5 %	1.4 %	2.4 %	9.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0107 ppm	0.1031 ppm	0.0106 ppm	0.0096 ppm	0.0105 ppm	0.0097 ppm	0.0101 ppm
Concentration per Run 1	0.0110 ppm	0.1024 ppm	0.0107 ppm	0.0093 ppm	0.0110 ppm	0.0094 ppm	0.0105 ppm
Concentration per Run 2	0.0104 ppm	0.1033 ppm	0.0105 ppm	0.0097 ppm	0.0103 ppm	0.0099 ppm	0.0100 ppm
Concentration per Run 3	0.0107 ppm	0.1034 ppm	0.0106 ppm	0.0099 ppm	0.0102 ppm	0.0099 ppm	0.0099 ppm
Recovery Percentage 1	106.858 %	0.000 %	106.123 %	96.260 %	105.040 %	97.247 %	101.482 %
Concentration RSD	3.0 %	0.5 %	0.7 %	2.7 %	4.3 %	2.8 %	3.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0094 ppm	100.7388 %	99.8128 %	102.0822 %	99.6413 %	101.6510 %	98.7951 %
Concentration per Run 1	0.0093 ppm	103.5793 %	95.6379 %	102.6442 %	104.6187 %	102.0259 %	94.5431 %
Concentration per Run 2	0.0093 ppm	98.7562 %	101.8621 %	102.0770 %	96.9236 %	101.7157 %	101.1175 %
Concentration per Run 3	0.0094 ppm	99.8810 %	101.9383 %	101.5253 %	97.3816 %	101.2115 %	100.7247 %
Recovery Percentage 1	93.650 %						
Concentration RSD	0.7 %	2.5 %	3.6 %	0.5 %	4.3 %	0.4 %	3.7 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: LLOQ 0.005ppm As
Analysis started at: 9/27/2024 10:23:42 AM
Comments <Comment>
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0055 ppm	**0.0020 ppm**	0.0044 ppm	0.0053 ppm	0.0050 ppm	0.0050 ppm	0.0107 ppm
Concentration per Run 1	0.0055 ppm	0.0003 ppm	0.0033 ppm	0.0051 ppm	0.0048 ppm	0.0049 ppm	0.0111 ppm
Concentration per Run 2	0.0054 ppm	0.0030 ppm	0.0046 ppm	0.0054 ppm	0.0050 ppm	0.0051 ppm	0.0111 ppm
Concentration per Run 3	0.0054 ppm	0.0028 ppm	0.0053 ppm	0.0054 ppm	0.0051 ppm	0.0051 ppm	0.0099 ppm
Recovery Percentage 1	109.092 %	40.904 %	88.534 %	105.895 %	100.002 %	100.757 %	0.000 %
Concentration RSD	1.6 %	**76.1 %**	23.1 %	3.1 %	3.2 %	2.0 %	6.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0052 ppm	0.0046 ppm	0.0049 ppm	0.0049 ppm	0.0051 ppm	0.0565 ppm	0.0050 ppm
Concentration per Run 1	0.0052 ppm	0.0046 ppm	0.0049 ppm	0.0048 ppm	0.0053 ppm	0.0436 ppm	0.0051 ppm
Concentration per Run 2	0.0051 ppm	0.0046 ppm	0.0048 ppm	0.0049 ppm	0.0054 ppm	0.0629 ppm	0.0048 ppm
Concentration per Run 3	0.0051 ppm	0.0046 ppm	0.0050 ppm	0.0051 ppm	0.0047 ppm	0.0632 ppm	0.0050 ppm
Recovery Percentage 1	103.046 %	92.463 %	98.367 %	98.922 %	102.163 %	0.000 %	99.466 %
Concentration RSD	0.4 %	0.4 %	1.7 %	2.8 %	7.4 %	19.9 %	2.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0061 ppm	0.0051 ppm	0.0051 ppm	0.1009 ppm	0.0045 ppm	0.0045 ppm	0.0048 ppm
Concentration per Run 1	0.0057 ppm	0.0050 ppm	0.0050 ppm	0.0968 ppm	0.0045 ppm	0.0041 ppm	0.0048 ppm
Concentration per Run 2	0.0070 ppm	0.0051 ppm	0.0051 ppm	0.1005 ppm	0.0047 ppm	0.0047 ppm	0.0047 ppm
Concentration per Run 3	0.0056 ppm	0.0052 ppm	0.0052 ppm	0.1054 ppm	0.0044 ppm	0.0048 ppm	0.0050 ppm
Recovery Percentage 1	0.000 %	102.593 %	101.869 %	0.000 %	90.815 %	90.683 %	96.087 %
Concentration RSD	13.3 %	2.1 %	1.6 %	4.3 %	3.4 %	7.5 %	2.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0049 ppm	**0.0528 ppm**	0.0052 ppm	0.0048 ppm	0.0052 ppm	0.0046 ppm	0.0050 ppm
Concentration per Run 1	0.0059 ppm	0.0529 ppm	0.0054 ppm	0.0047 ppm	0.0051 ppm	0.0042 ppm	0.0052 ppm
Concentration per Run 2	0.0048 ppm	0.0530 ppm	0.0053 ppm	0.0048 ppm	0.0053 ppm	0.0045 ppm	0.0049 ppm
Concentration per Run 3	0.0041 ppm	0.0525 ppm	0.0050 ppm	0.0050 ppm	0.0051 ppm	0.0051 ppm	0.0048 ppm
Recovery Percentage 1	97.896 %	1,056.332 %	104.684 %	96.194 %	103.186 %	92.570 %	99.332 %
Concentration RSD	18.4 %	**0.5 %**	3.9 %	3.2 %	1.8 %	9.5 %	3.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0048 ppm	101.1522 %	100.9445 %	100.9430 %	99.2306 %	99.7537 %	99.2864 %
Concentration per Run 1	0.0048 ppm	101.9440 %	100.9337 %	101.3861 %	101.9089 %	100.1959 %	99.3622 %
Concentration per Run 2	0.0048 ppm	100.4310 %	100.9654 %	100.8224 %	98.2981 %	99.3727 %	99.7376 %
Concentration per Run 3	0.0048 ppm	101.0816 %	100.9344 %	100.6205 %	97.4847 %	99.6925 %	98.7594 %
Recovery Percentage 1	95.859 %						
Concentration RSD	0.7 %	0.8 %	0.0 %	0.4 %	2.4 %	0.4 %	0.5 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: LDR 400 Fe pass _IEC +Ni
Analysis started at: 9/27/2024 10:30:06 AM
Comments <Comment>
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	-0.0056 ppm	0.0017 ppm	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 1	-0.0006 ppm	-0.0048 ppm	0.0015 ppm	0.0008 ppm	0.0003 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 2	-0.0006 ppm	-0.0052 ppm	0.0018 ppm	0.0012 ppm	0.0004 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 3	-0.0007 ppm	-0.0069 ppm	0.0018 ppm	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0009 ppm
Concentration RSD	9.1 %	20.4 %	10.4 %	17.9 %	11.1 %	43.4 %	27.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0018 ppm	0.0006 ppm	0.0023 ppm	0.0025 ppm	365.9819 ppm	-0.0003 ppm	0.0004 ppm
Concentration per Run 1	0.0019 ppm	0.0009 ppm	0.0023 ppm	0.0026 ppm	361.1225 ppm	-0.0052 ppm	0.0002 ppm
Concentration per Run 2	0.0018 ppm	0.0005 ppm	0.0022 ppm	0.0026 ppm	368.7162 ppm	0.0087 ppm	0.0004 ppm
Concentration per Run 3	0.0018 ppm	0.0003 ppm	0.0023 ppm	0.0023 ppm	368.1071 ppm	-0.0044 ppm	0.0007 ppm
Concentration RSD	3.2 %	55.3 %	2.0 %	7.1 %	1.2 %	2,359.4 %	55.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0277 ppm	0.0004 ppm	-0.0028 ppm	0.0077 ppm	0.0000 ppm	0.0008 ppm	-0.0171 ppm
Concentration per Run 1	-0.0271 ppm	0.0003 ppm	-0.0028 ppm	0.0081 ppm	0.0003 ppm	0.0014 ppm	-0.0168 ppm
Concentration per Run 2	-0.0279 ppm	0.0005 ppm	-0.0029 ppm	0.0085 ppm	-0.0008 ppm	0.0004 ppm	-0.0176 ppm
Concentration per Run 3	-0.0282 ppm	0.0005 ppm	-0.0027 ppm	0.0065 ppm	0.0005 ppm	0.0007 ppm	-0.0169 ppm
Concentration RSD	2.0 %	24.1 %	2.4 %	13.2 %	3,386.3 %	63.4 %	2.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0023 ppm	0.0024 ppm	0.0020 ppm	0.0002 ppm	-0.0002 ppm	0.0004 ppm	-0.0037 ppm
Concentration per Run 1	-0.0032 ppm	0.0020 ppm	0.0020 ppm	0.0003 ppm	-0.0002 ppm	0.0004 ppm	-0.0038 ppm
Concentration per Run 2	-0.0012 ppm	0.0025 ppm	0.0023 ppm	0.0002 ppm	-0.0001 ppm	0.0012 ppm	-0.0037 ppm
Concentration per Run 3	-0.0025 ppm	0.0028 ppm	0.0018 ppm	0.0002 ppm	-0.0001 ppm	-0.0003 ppm	-0.0036 ppm
Concentration RSD	44.6 %	18.0 %	12.1 %	12.3 %	43.9 %	167.3 %	2.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	98.2805 %	95.3242 %	94.5275 %	96.4142 %	81.1882 %	95.3376 %
Concentration per Run 1	0.0003 ppm	98.0745 %	95.2387 %	94.5219 %	97.3915 %	81.1972 %	95.5328 %
Concentration per Run 2	0.0002 ppm	97.9654 %	95.2278 %	94.6679 %	95.5289 %	81.2642 %	95.2695 %
Concentration per Run 3	0.0001 ppm	98.8016 %	95.5060 %	94.3929 %	96.3222 %	81.1034 %	95.2105 %
Concentration RSD	43.8 %	0.5 %	0.2 %	0.1 %	1.0 %	0.1 %	0.2 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: LDR 500 Mg pass
Analysis started at: 9/27/2024 10:36:36 AM
Comments <Comment>
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0027 ppm	-0.0009 ppm	0.0006 ppm	-0.0003 ppm	0.0000 ppm	0.0181 ppm
Concentration per Run 1	0.0001 ppm	-0.0024 ppm	-0.0006 ppm	0.0010 ppm	-0.0003 ppm	0.0000 ppm	0.0163 ppm
Concentration per Run 2	0.0001 ppm	-0.0043 ppm	-0.0004 ppm	0.0006 ppm	-0.0002 ppm	0.0000 ppm	0.0170 ppm
Concentration per Run 3	0.0002 ppm	-0.0014 ppm	-0.0017 ppm	0.0004 ppm	-0.0003 ppm	0.0000 ppm	0.0211 ppm
Concentration RSD	54.9 %	54.8 %	74.9 %	46.6 %	17.2 %	823.7 %	14.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0005 ppm	0.0058 ppm	-0.0054 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0004 ppm	0.0049 ppm	0.0069 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0006 ppm	0.0005 ppm	0.0061 ppm	-0.0047 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0005 ppm	0.0005 ppm	0.0064 ppm	-0.0185 ppm	-0.0001 ppm
Concentration RSD	1,293.5 %	124.4 %	27.4 %	15.5 %	13.1 %	233.5 %	141.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	509.3203 [SIC 500]	0.0010 ppm	0.0002 ppm	0.0029 ppm	-0.0010 ppm	-0.0002 ppm	-0.0009 ppm
Concentration per Run 1	512.5571 ppm	0.0012 ppm	0.0001 ppm	0.0018 ppm	-0.0007 ppm	-0.0001 ppm	-0.0008 ppm
Concentration per Run 2	504.7904 ppm	0.0010 ppm	0.0003 ppm	0.0033 ppm	-0.0012 ppm	-0.0002 ppm	-0.0003 ppm
Concentration per Run 3	510.6132 ppm	0.0010 ppm	0.0001 ppm	0.0037 ppm	-0.0010 ppm	-0.0003 ppm	-0.0016 ppm
Concentration RSD	0.8 %	9.8 %	47.1 %	33.3 %	27.4 %	56.0 %	69.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	0.0043 ppm	0.0006 ppm	0.0001 ppm	0.0006 ppm	0.0002 ppm	-0.0010 ppm
Concentration per Run 1	0.0011 ppm	0.0042 ppm	0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0007 ppm	-0.0011 ppm
Concentration per Run 2	0.0007 ppm	0.0046 ppm	0.0012 ppm	0.0001 ppm	0.0007 ppm	-0.0002 ppm	-0.0009 ppm
Concentration per Run 3	-0.0014 ppm	0.0042 ppm	0.0004 ppm	0.0001 ppm	0.0006 ppm	0.0003 ppm	-0.0011 ppm
Concentration RSD	939.2 %	5.6 %	95.0 %	20.9 %	11.7 %	181.3 %	13.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	95.7295 %	88.8141 %	89.4347 %	94.2209 %	71.9889 %	87.6273 %
Concentration per Run 1	0.0002 ppm	96.3968 %	88.9113 %	89.5071 %	97.0036 %	71.8200 %	87.7832 %
Concentration per Run 2	0.0002 ppm	95.9201 %	88.7736 %	89.4067 %	93.8301 %	71.9306 %	87.3806 %
Concentration per Run 3	0.0003 ppm	94.8715 %	88.7573 %	89.3903 %	91.8289 %	72.2159 %	87.7180 %
Concentration RSD	19.0 %	0.8 %	0.1 %	0.1 %	2.8 %	0.3 %	0.2 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: LDR 500 Ca pass
Analysis started at: 9/27/2024 10:43:08 AM
Comments <Comment>
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0112 ppm	-0.0034 ppm	0.0023 ppm	0.0005 ppm	-0.0004 ppm	491.1130 ppm
Concentration per Run 1	0.0004 ppm	0.0159 ppm	-0.0056 ppm	0.0021 ppm	0.0005 ppm	-0.0004 ppm	483.0472 ppm
Concentration per Run 2	0.0000 ppm	0.0155 ppm	-0.0014 ppm	0.0022 ppm	0.0005 ppm	-0.0004 ppm	495.3209 ppm
Concentration per Run 3	0.0002 ppm	0.0023 ppm	-0.0030 ppm	0.0025 ppm	0.0005 ppm	-0.0004 ppm	494.9710 ppm
Concentration RSD	84.2 %	69.1 %	63.3 %	7.5 %	4.0 %	3.7 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0014 ppm	-0.0002 ppm	0.0007 ppm	0.0008 ppm	0.0016 ppm	-0.0036 ppm	-0.0022 ppm
Concentration per Run 1	-0.0014 ppm	-0.0002 ppm	0.0008 ppm	0.0007 ppm	0.0013 ppm	0.0065 ppm	-0.0026 ppm
Concentration per Run 2	-0.0013 ppm	-0.0001 ppm	0.0007 ppm	0.0010 ppm	0.0012 ppm	-0.0075 ppm	-0.0022 ppm
Concentration per Run 3	-0.0014 ppm	-0.0002 ppm	0.0005 ppm	0.0006 ppm	0.0024 ppm	-0.0096 ppm	-0.0018 ppm
Concentration RSD	4.9 %	36.2 %	19.5 %	21.1 %	40.5 %	245.7 %	19.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0036 ppm	0.0004 ppm	0.0002 ppm	0.0143 ppm	-0.0008 ppm	-0.0005 ppm	0.0065 ppm
Concentration per Run 1	0.0042 ppm	0.0004 ppm	0.0001 ppm	0.0139 ppm	-0.0011 ppm	-0.0008 ppm	0.0071 ppm
Concentration per Run 2	0.0046 ppm	0.0003 ppm	0.0003 ppm	0.0165 ppm	-0.0005 ppm	0.0003 ppm	0.0065 ppm
Concentration per Run 3	0.0020 ppm	0.0005 ppm	0.0003 ppm	0.0125 ppm	-0.0009 ppm	-0.0010 ppm	0.0058 ppm
Concentration RSD	39.0 %	26.4 %	39.7 %	14.2 %	34.3 %	147.8 %	10.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	0.0121 ppm	0.0011 ppm	-0.0002 ppm	-0.0045 ppm	-0.0004 ppm	0.0004 ppm
Concentration per Run 1	0.0019 ppm	0.0119 ppm	0.0008 ppm	-0.0002 ppm	-0.0045 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 2	-0.0011 ppm	0.0130 ppm	0.0011 ppm	-0.0003 ppm	-0.0045 ppm	-0.0015 ppm	0.0003 ppm
Concentration per Run 3	0.0012 ppm	0.0115 ppm	0.0014 ppm	-0.0002 ppm	-0.0047 ppm	-0.0003 ppm	0.0005 ppm
Concentration RSD	231.2 %	6.5 %	23.9 %	17.4 %	2.8 %	253.7 %	29.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0003 ppm	92.7980 %	87.8118 %	87.8304 %	90.8412 %	70.2803 %	86.7952 %
Concentration per Run 1	-0.0003 ppm	93.0081 %	87.7542 %	88.1479 %	92.7405 %	70.6826 %	87.2034 %
Concentration per Run 2	-0.0002 ppm	92.6937 %	87.8696 %	87.6624 %	89.8005 %	69.9445 %	86.4925 %
Concentration per Run 3	-0.0003 ppm	92.6921 %	87.8117 %	87.6809 %	89.9827 %	70.2137 %	86.6897 %
Concentration RSD	21.8 %	0.2 %	0.1 %	0.3 %	1.8 %	0.5 %	0.4 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: LDR 800 Ca pass
Analysis started at: 9/27/2024 10:49:39 AM
Comments <Comment>
Rack: 1
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0296 ppm	-0.0055 ppm	0.0030 ppm	0.0007 ppm	-0.0006 ppm	777.8406 ppm
Concentration per Run 1	-0.0001 ppm	0.0314 ppm	-0.0064 ppm	0.0032 ppm	0.0007 ppm	-0.0006 ppm	771.9072 ppm
Concentration per Run 2	0.0000 ppm	0.0289 ppm	-0.0035 ppm	0.0027 ppm	0.0007 ppm	-0.0006 ppm	772.7672 ppm
Concentration per Run 3	0.0001 ppm	0.0285 ppm	-0.0065 ppm	0.0031 ppm	0.0007 ppm	-0.0006 ppm	788.8475 ppm
Concentration RSD	1,438.2 %	5.2 %	31.4 %	8.4 %	0.8 %	2.9 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0023 ppm	-0.0001 ppm	0.0006 ppm	0.0013 ppm	0.0034 ppm	-0.0072 ppm	-0.0031 ppm
Concentration per Run 1	-0.0023 ppm	0.0000 ppm	0.0005 ppm	0.0013 ppm	0.0040 ppm	-0.0042 ppm	-0.0030 ppm
Concentration per Run 2	-0.0023 ppm	0.0000 ppm	0.0007 ppm	0.0014 ppm	0.0033 ppm	0.0006 ppm	-0.0027 ppm
Concentration per Run 3	-0.0023 ppm	-0.0002 ppm	0.0006 ppm	0.0012 ppm	0.0031 ppm	-0.0180 ppm	-0.0035 ppm
Concentration RSD	1.7 %	135.9 %	14.2 %	6.1 %	13.8 %	133.6 %	12.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0026 ppm	0.0006 ppm	0.0007 ppm	0.0187 ppm	-0.0008 ppm	0.0010 ppm	0.0103 ppm
Concentration per Run 1	-0.0027 ppm	0.0007 ppm	0.0007 ppm	0.0185 ppm	-0.0007 ppm	0.0014 ppm	0.0094 ppm
Concentration per Run 2	-0.0021 ppm	0.0006 ppm	0.0009 ppm	0.0184 ppm	-0.0010 ppm	0.0000 ppm	0.0116 ppm
Concentration per Run 3	-0.0030 ppm	0.0006 ppm	0.0006 ppm	0.0193 ppm	-0.0006 ppm	0.0015 ppm	0.0098 ppm
Concentration RSD	18.5 %	7.3 %	22.9 %	2.7 %	29.2 %	83.0 %	11.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0011 ppm	0.0185 ppm	0.0007 ppm	-0.0002 ppm	-0.0073 ppm	-0.0003 ppm	0.0009 ppm
Concentration per Run 1	-0.0003 ppm	0.0187 ppm	0.0002 ppm	-0.0002 ppm	-0.0072 ppm	-0.0012 ppm	0.0008 ppm
Concentration per Run 2	0.0024 ppm	0.0191 ppm	0.0010 ppm	-0.0003 ppm	-0.0073 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	0.0011 ppm	0.0176 ppm	0.0010 ppm	-0.0002 ppm	-0.0073 ppm	0.0003 ppm	0.0008 ppm
Concentration RSD	127.3 %	4.1 %	67.9 %	6.7 %	0.5 %	301.5 %	15.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0007 ppm	91.2110 %	84.9561 %	84.8086 %	88.9500 %	65.0604 %	83.8290 %
Concentration per Run 1	-0.0008 ppm	91.4445 %	85.0476 %	84.8516 %	90.2573 %	65.0783 %	83.7935 %
Concentration per Run 2	-0.0007 ppm	91.5710 %	84.9801 %	84.7839 %	89.2739 %	65.1867 %	83.7791 %
Concentration per Run 3	-0.0004 ppm	90.6176 %	84.8405 %	84.7903 %	87.3187 %	64.9162 %	83.9143 %
Concentration RSD	29.4 %	0.6 %	0.1 %	0.0 %	1.7 %	0.2 %	0.1 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: SIC Multi
Analysis started at: 9/27/2024 11:11:07 AM
Comments <Comment>
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0024 ppm	0.0086 ppm	-0.0009 ppm	0.0113 ppm	0.0004 ppm	-0.0010 ppm	0.0203 ppm
Concentration per Run 1	0.0025 ppm	0.0098 ppm	0.0003 ppm	0.0111 ppm	0.0003 ppm	-0.0009 ppm	0.0201 ppm
Concentration per Run 2	0.0026 ppm	0.0099 ppm	-0.0015 ppm	0.0115 ppm	0.0004 ppm	-0.0011 ppm	0.0203 ppm
Concentration per Run 3	0.0022 ppm	0.0060 ppm	-0.0014 ppm	0.0114 ppm	0.0004 ppm	-0.0010 ppm	0.0205 ppm
Recovery Percentage 1	34.850 %	8.585 %	-18.008 %	37.807 %	4.070 %	-19.646 %	20.282 %
Concentration RSD	8.5 %	25.6 %	111.3 %	1.7 %	12.9 %	11.2 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0008 ppm	0.0001 ppm	19.8586 ppm	-0.0045 ppm	0.0035 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	-0.0008 ppm	0.0000 ppm	20.0102 ppm	-0.0046 ppm	0.0031 ppm	-0.0027 ppm	0.0003 ppm
Concentration per Run 2	-0.0008 ppm	0.0000 ppm	19.9288 ppm	-0.0044 ppm	0.0040 ppm	-0.0035 ppm	-0.0001 ppm
Concentration per Run 3	-0.0009 ppm	0.0002 ppm	19.6367 ppm	-0.0044 ppm	0.0034 ppm	0.0063 ppm	-0.0003 ppm
Recovery Percentage 1	-20.474 %	0.362 %	198,585.649 %	-44.511 %	6.972 %	0.000 %	-0.201 %
Concentration RSD	5.1 %	179.2 %	1.0 %	2.3 %	12.0 %	46,875.0 %	1,608.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0246 ppm	20.5081 [SIC 30]	-0.0022 ppm	0.0102 ppm	0.0079 ppm	0.0013 ppm	-0.0009 ppm
Concentration per Run 1	-0.0230 ppm	20.2749 ppm	-0.0022 ppm	0.0100 ppm	0.0079 ppm	0.0013 ppm	-0.0021 ppm
Concentration per Run 2	-0.0247 ppm	20.6372 ppm	-0.0021 ppm	0.0079 ppm	0.0077 ppm	0.0012 ppm	-0.0004 ppm
Concentration per Run 3	-0.0261 ppm	20.6123 ppm	-0.0025 ppm	0.0128 ppm	0.0081 ppm	0.0014 ppm	-0.0003 ppm
Recovery Percentage 1	-24.628 %	205,081.198 %	-4.496 %	0.512 %	31.652 %	12.660 %	-1.850 %
Concentration RSD	6.3 %	1.0 %	9.6 %	23.7 %	1.9 %	6.5 %	108.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0028 ppm	0.3490 ppm	-0.0021 ppm	0.0001 ppm	20.0215 ppm	0.0023 ppm	10.1950 [SIC 10]
Concentration per Run 1	-0.0035 ppm	0.3501 ppm	-0.0023 ppm	0.0000 ppm	20.0040 ppm	0.0020 ppm	10.2234 ppm
Concentration per Run 2	-0.0024 ppm	0.3492 ppm	-0.0025 ppm	0.0001 ppm	20.0983 ppm	0.0023 ppm	10.2548 ppm
Concentration per Run 3	-0.0027 ppm	0.3477 ppm	-0.0017 ppm	0.0000 ppm	19.9622 ppm	0.0027 ppm	10.1069 ppm
Recovery Percentage 1	-28.399 %	69.797 %	-4.265 %	0.538 %	200,214.820 %	11.748 %	101,950.075 %
Concentration RSD	21.1 %	0.3 %	19.6 %	38.8 %	0.3 %	15.1 %	0.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0005 ppm	99.0305 %	99.5414 %	100.7275 %	96.3335 %	94.5169 %	98.0802 %
Concentration per Run 1	0.0008 ppm	99.3604 %	99.6534 %	101.1253 %	97.5011 %	94.7192 %	98.3212 %
Concentration per Run 2	0.0003 ppm	99.1276 %	99.5514 %	100.8648 %	95.9879 %	94.7183 %	97.8164 %
Concentration per Run 3	0.0005 ppm	98.6034 %	99.4195 %	100.1925 %	95.5116 %	94.1132 %	98.1031 %
Recovery Percentage 1	10.021 %						
Concentration RSD	52.4 %	0.4 %	0.1 %	0.5 %	1.1 %	0.4 %	0.3 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: LDR Check
Analysis started at: 9/27/2024 11:18:05 AM
Comments <Comment>
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0028 ppm	0.1498 ppm	23.6458 ppm	26.8284 [SIC 20]	19.6634 ppm	5.0986 ppm	0.0314 ppm
Concentration per Run 1	0.0028 ppm	0.1500 ppm	23.7502 ppm	27.0620 ppm	19.3697 ppm	5.0950 ppm	0.0298 ppm
Concentration per Run 2	0.0027 ppm	0.1507 ppm	23.6759 ppm	26.8707 ppm	19.6484 ppm	5.0848 ppm	0.0311 ppm
Concentration per Run 3	0.0030 ppm	0.1486 ppm	23.5112 ppm	26.5523 ppm	19.9721 ppm	5.1159 ppm	0.0332 ppm
Recovery Percentage 1	0.000 %	0.000 %	118.229 %	134.142 %	98.317 %	101.972 %	0.000 %
Concentration RSD	5.9 %	0.7 %	0.5 %	1.0 %	1.5 %	0.3 %	5.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	5.4858 ppm	5.2271 ppm	0.0002 ppm	20.5221 [SIC 20]	0.0440 ppm	469.3793 ppm	19.1294 ppm
Concentration per Run 1	5.4424 ppm	5.2461 ppm	0.0004 ppm	20.5061 ppm	0.0433 ppm	458.0939 ppm	18.8705 ppm
Concentration per Run 2	5.4746 ppm	5.2470 ppm	0.0000 ppm	20.6416 ppm	0.0436 ppm	473.3051 ppm	19.7103 ppm
Concentration per Run 3	5.5405 ppm	5.1881 ppm	0.0002 ppm	20.4186 ppm	0.0450 ppm	476.7389 ppm	18.8075 ppm
Recovery Percentage 1	109.716 %	104.542 %	0.000 %	102.610 %	0.000 %	93.876 %	95.647 %
Concentration RSD	0.9 %	0.6 %	105.1 %	0.5 %	2.1 %	2.1 %	2.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.1063 ppm	0.0007 ppm	5.6553 [SIC 5]	418.5975 [SIC LDR]	9.9928 ppm	47.6466 ppm	5.6267 ppm
Concentration per Run 1	-0.1066 ppm	0.0006 ppm	5.6735 ppm	440.1720 ppm	10.0255 ppm	47.7943 ppm	5.7011 ppm
Concentration per Run 2	-0.1069 ppm	0.0006 ppm	5.6623 ppm	413.6930 ppm	10.0260 ppm	47.7421 ppm	5.6526 ppm
Concentration per Run 3	-0.1054 ppm	0.0008 ppm	5.6301 ppm	401.9275 ppm	9.9270 ppm	47.4035 ppm	5.5265 ppm
Recovery Percentage 1	0.000 %	0.000 %	113.106 %	83.720 %	99.928 %	95.293 %	112.534 %
Concentration RSD	0.8 %	13.2 %	0.4 %	4.7 %	0.6 %	0.4 %	1.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	5.5018 [SIC 5]	23.3157 [SIC 50]	9.9529 ppm	4.8970 ppm	0.0034 ppm	4.2960 ppm	0.0159 ppm
Concentration per Run 1	5.5451 ppm	23.5913 ppm	9.9411 ppm	4.8782 ppm	0.0034 ppm	4.3215 ppm	0.0155 ppm
Concentration per Run 2	5.5043 ppm	23.4427 ppm	9.9416 ppm	4.8242 ppm	0.0034 ppm	4.3043 ppm	0.0159 ppm
Concentration per Run 3	5.4560 ppm	22.9131 ppm	9.9760 ppm	4.9887 ppm	0.0033 ppm	4.2622 ppm	0.0163 ppm
Recovery Percentage 1	110.036 %	116.579 %	99.529 %	97.940 %	0.000 %	85.920 %	0.000 %
Concentration RSD	0.8 %	1.5 %	0.2 %	1.7 %	1.9 %	0.7 %	2.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	20.9505 [SIC 15]	95.9478 %	83.8535 %	74.5878 %	93.3861 %	67.0312 %	82.1929 %
Concentration per Run 1	20.7696 ppm	95.4126 %	83.7165 %	73.6998 %	93.1534 %	66.0354 %	82.5254 %
Concentration per Run 2	20.9674 ppm	96.8856 %	83.8338 %	74.1670 %	94.0043 %	66.4238 %	81.7654 %
Concentration per Run 3	21.1144 ppm	95.5452 %	84.0100 %	75.8966 %	93.0007 %	68.6343 %	82.2880 %
Recovery Percentage 1	104.752 %						
Concentration RSD	0.8 %	0.8 %	0.2 %	1.6 %	0.6 %	2.1 %	0.5 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: LDR 20 As pass
Analysis started at: 9/27/2024 11:41:09 AM
Comments <Comment>
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0002 ppm	19.2542 ppm	0.0113 ppm	0.0000 ppm	0.0000 ppm	0.0074 ppm
Concentration per Run 1	0.0001 ppm	0.0014 ppm	19.2112 ppm	0.0118 ppm	0.0000 ppm	0.0000 ppm	0.0065 ppm
Concentration per Run 2	0.0000 ppm	-0.0014 ppm	19.3015 ppm	0.0112 ppm	0.0000 ppm	0.0000 ppm	0.0086 ppm
Concentration per Run 3	0.0002 ppm	-0.0006 ppm	19.2501 ppm	0.0108 ppm	0.0000 ppm	0.0000 ppm	0.0069 ppm
Concentration RSD	99.4 %	635.5 %	0.2 %	4.4 %	674.9 %	131.7 %	15.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0012 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0028 ppm	0.0645 ppm	0.0042 ppm
Concentration per Run 1	-0.0012 ppm	-0.0002 ppm	0.0002 ppm	-0.0001 ppm	0.0024 ppm	0.0589 ppm	0.0045 ppm
Concentration per Run 2	-0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0024 ppm	0.0646 ppm	0.0041 ppm
Concentration per Run 3	-0.0013 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0035 ppm	0.0699 ppm	0.0040 ppm
Concentration RSD	5.0 %	187.1 %	97.9 %	1,543.6 %	21.8 %	8.5 %	6.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0014 ppm	0.0010 ppm	0.0002 ppm	0.0137 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 1	0.0020 ppm	0.0009 ppm	0.0001 ppm	0.0119 ppm	0.0003 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 2	0.0028 ppm	0.0011 ppm	0.0002 ppm	0.0145 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 3	-0.0005 ppm	0.0011 ppm	0.0004 ppm	0.0146 ppm	0.0001 ppm	0.0001 ppm	0.0014 ppm
Concentration RSD	117.3 %	9.8 %	56.1 %	11.2 %	153.6 %	222.8 %	161.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0003 ppm	0.0020 ppm	0.0010 ppm	0.0000 ppm	0.0002 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 1	-0.0002 ppm	0.0019 ppm	0.0010 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 2	-0.0002 ppm	0.0022 ppm	0.0008 ppm	0.0000 ppm	0.0002 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 3	0.0014 ppm	0.0020 ppm	0.0012 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0000 ppm
Concentration RSD	268.8 %	6.4 %	23.2 %	57.1 %	50.8 %	37.8 %	97.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0006 ppm	97.7301 %	102.3988 %	106.0466 %	96.4766 %	105.1513 %	101.7874 %
Concentration per Run 1	0.0007 ppm	98.9988 %	102.3965 %	106.3382 %	99.2154 %	105.4329 %	101.9785 %
Concentration per Run 2	0.0005 ppm	97.0326 %	102.5579 %	105.9813 %	95.2019 %	105.1717 %	101.9515 %
Concentration per Run 3	0.0006 ppm	97.1590 %	102.2421 %	105.8204 %	95.0126 %	104.8493 %	101.4322 %
Concentration RSD	15.0 %	1.1 %	0.2 %	0.2 %	2.5 %	0.3 %	0.3 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: LDR 20 B pass
Analysis started at: 9/27/2024 11:47:33 AM
Comments <Comment>
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0032 ppm	0.0073 ppm	19.0413 ppm	0.0001 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 1	-0.0001 ppm	-0.0027 ppm	0.0084 ppm	19.0710 ppm	0.0000 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 2	-0.0002 ppm	-0.0055 ppm	0.0067 ppm	19.0201 ppm	0.0001 ppm	0.0000 ppm	0.0063 ppm
Concentration per Run 3	0.0000 ppm	-0.0014 ppm	0.0068 ppm	19.0328 ppm	0.0001 ppm	0.0000 ppm	0.0064 ppm
Concentration RSD	86.7 %	65.4 %	12.8 %	0.1 %	72.5 %	3,387.6 %	4.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0255 ppm	0.0032 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0379 ppm	0.0033 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0007 ppm	0.0220 ppm	0.0030 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	-0.0002 ppm	0.0008 ppm	0.0167 ppm	0.0032 ppm
Concentration RSD	100.3 %	37.3 %	326.5 %	10.6 %	49.8 %	43.2 %	5.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0009 ppm	0.0002 ppm	0.0002 ppm	0.0058 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.0005 ppm	0.0000 ppm	0.0002 ppm	0.0080 ppm	0.0001 ppm	-0.0004 ppm	-0.0006 ppm
Concentration per Run 2	0.0004 ppm	0.0004 ppm	0.0002 ppm	0.0060 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 3	0.0017 ppm	0.0001 ppm	0.0002 ppm	0.0035 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm
Concentration RSD	85.4 %	95.6 %	2.8 %	38.0 %	451.2 %	590.2 %	190.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0017 ppm	0.0011 ppm	0.0009 ppm	0.0000 ppm	-0.0003 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 1	-0.0025 ppm	0.0013 ppm	0.0007 ppm	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 2	-0.0006 ppm	0.0012 ppm	0.0009 ppm	-0.0001 ppm	-0.0001 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 3	-0.0020 ppm	0.0008 ppm	0.0010 ppm	-0.0001 ppm	-0.0003 ppm	-0.0010 ppm	0.0000 ppm
Concentration RSD	57.8 %	23.4 %	15.6 %	70.3 %	49.1 %	70.3 %	101.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	94.3840 %	99.7441 %	105.1129 %	92.6641 %	101.8362 %	99.1902 %
Concentration per Run 1	0.0001 ppm	95.8162 %	99.7450 %	105.1493 %	95.8027 %	101.8892 %	98.8868 %
Concentration per Run 2	0.0003 ppm	93.6701 %	99.4228 %	105.2189 %	91.6342 %	102.0527 %	99.1369 %
Concentration per Run 3	0.0001 ppm	93.6658 %	100.0645 %	104.9706 %	90.5554 %	101.5668 %	99.5470 %
Concentration RSD	64.7 %	1.3 %	0.3 %	0.1 %	3.0 %	0.2 %	0.3 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: xLDR 400 Na
Analysis started at: 9/27/2024 11:53:58 AM
Comments <Comment>
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0010 ppm	0.0000 ppm	0.0270 ppm	0.0001 ppm	0.0000 ppm	0.0066 ppm
Concentration per Run 1	0.0001 ppm	0.0022 ppm	0.0010 ppm	0.0281 ppm	0.0001 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0273 ppm	0.0001 ppm	0.0000 ppm	0.0109 ppm
Concentration per Run 3	0.0003 ppm	0.0010 ppm	-0.0010 ppm	0.0256 ppm	0.0000 ppm	0.0000 ppm	0.0048 ppm
Concentration RSD	76.1 %	103.9 %	9,473.6 %	4.8 %	79.5 %	249.1 %	55.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	-0.0008 ppm	0.1386 ppm	-0.0062 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0005 ppm	-0.0011 ppm	0.1210 ppm	-0.0058 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0006 ppm	-0.0004 ppm	0.1336 ppm	-0.0063 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0006 ppm	-0.0010 ppm	0.1611 ppm	-0.0065 ppm
Concentration RSD	4,217.1 %	102.8 %	338.1 %	12.4 %	47.2 %	14.8 %	5.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0010 ppm	0.0002 ppm	0.0002 ppm	343.9124 [SIC LDR]	-0.0009 ppm	-0.0005 ppm	-0.0005 ppm
Concentration per Run 1	0.0017 ppm	0.0001 ppm	0.0002 ppm	333.4627 ppm	-0.0011 ppm	-0.0003 ppm	-0.0007 ppm
Concentration per Run 2	0.0007 ppm	0.0002 ppm	0.0002 ppm	342.5356 ppm	-0.0011 ppm	-0.0003 ppm	-0.0006 ppm
Concentration per Run 3	0.0005 ppm	0.0001 ppm	0.0001 ppm	355.7389 ppm	-0.0006 ppm	-0.0007 ppm	-0.0004 ppm
Concentration RSD	65.7 %	26.6 %	39.4 %	3.3 %	31.5 %	53.6 %	22.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0011 ppm	0.0034 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0004 ppm
Concentration per Run 1	-0.0004 ppm	0.0028 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0007 ppm	-0.0004 ppm
Concentration per Run 2	-0.0017 ppm	0.0038 ppm	-0.0004 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 3	-0.0013 ppm	0.0037 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0003 ppm	-0.0005 ppm
Concentration RSD	60.6 %	16.3 %	148.4 %	65.9 %	25.0 %	99.7 %	21.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	93.0388 %	88.7934 %	88.8112 %	91.3410 %	71.2781 %	88.0567 %
Concentration per Run 1	0.0002 ppm	91.2365 %	89.1929 %	88.5755 %	91.5192 %	71.1362 %	88.4638 %
Concentration per Run 2	0.0001 ppm	93.3758 %	88.6597 %	89.5414 %	91.1025 %	71.8863 %	87.6633 %
Concentration per Run 3	0.0003 ppm	94.5040 %	88.5274 %	88.3167 %	91.4013 %	70.8118 %	88.0432 %
Concentration RSD	34.4 %	1.8 %	0.4 %	0.7 %	0.2 %	0.8 %	0.5 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: LDR 300 Na pass
Analysis started at: 9/27/2024 12:00:34 PM
Comments <Comment>
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0002 ppm	0.0007 ppm	0.0159 ppm	0.0000 ppm	0.0000 ppm	0.0097 ppm
Concentration per Run 1	0.0001 ppm	0.0017 ppm	-0.0004 ppm	0.0167 ppm	0.0000 ppm	0.0000 ppm	0.0087 ppm
Concentration per Run 2	0.0001 ppm	0.0022 ppm	0.0009 ppm	0.0160 ppm	0.0000 ppm	0.0000 ppm	0.0100 ppm
Concentration per Run 3	0.0001 ppm	-0.0032 ppm	0.0016 ppm	0.0150 ppm	0.0001 ppm	0.0000 ppm	0.0104 ppm
Concentration RSD	33.1 %	1,421.1 %	143.1 %	5.2 %	467.9 %	157.5 %	9.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0000 ppm	0.1215 ppm	-0.0044 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0005 ppm	-0.0007 ppm	0.1091 ppm	-0.0045 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0005 ppm	0.0001 ppm	0.1268 ppm	-0.0048 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0007 ppm	0.1286 ppm	-0.0039 ppm
Concentration RSD	96.3 %	213.9 %	26.2 %	10.7 %	2,435.5 %	8.9 %	10.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0002 ppm	0.0000 ppm	0.0002 ppm	271.6231 ppm	-0.0009 ppm	-0.0006 ppm	-0.0012 ppm
Concentration per Run 1	-0.0013 ppm	0.0000 ppm	0.0001 ppm	279.9131 ppm	-0.0009 ppm	-0.0003 ppm	-0.0017 ppm
Concentration per Run 2	0.0005 ppm	0.0000 ppm	0.0003 ppm	279.4812 ppm	-0.0009 ppm	-0.0006 ppm	-0.0010 ppm
Concentration per Run 3	0.0014 ppm	0.0000 ppm	0.0002 ppm	255.4749 ppm	-0.0009 ppm	-0.0008 ppm	-0.0008 ppm
Concentration RSD	710.8 %	236.2 %	63.1 %	5.1 %	3.0 %	44.4 %	37.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	0.0033 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	0.0012 ppm	0.0025 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0008 ppm	-0.0001 ppm
Concentration per Run 2	-0.0016 ppm	0.0035 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 3	0.0008 ppm	0.0038 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm	-0.0004 ppm	-0.0001 ppm
Concentration RSD	987.2 %	20.4 %	53.1 %	411.8 %	46.3 %	68.5 %	54.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	100.5352 %	90.5319 %	88.1642 %	98.4952 %	72.2668 %	88.9446 %
Concentration per Run 1	0.0002 ppm	100.9743 %	90.1583 %	90.0725 %	100.0227 %	74.0216 %	89.0601 %
Concentration per Run 2	0.0002 ppm	99.5898 %	90.8961 %	87.3866 %	97.1117 %	71.1870 %	89.1232 %
Concentration per Run 3	0.0000 ppm	101.0414 %	90.5414 %	87.0335 %	98.3512 %	71.5920 %	88.6504 %
Concentration RSD	64.4 %	0.8 %	0.4 %	1.9 %	1.5 %	2.1 %	0.3 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: LDR 20 Si pass
Analysis started at: 9/27/2024 12:07:10 PM
Comments <Comment>
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0003 ppm	0.0005 ppm	0.0117 ppm	0.0000 ppm	0.0000 ppm	0.0045 ppm
Concentration per Run 1	0.0002 ppm	0.0008 ppm	0.0017 ppm	0.0121 ppm	0.0000 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 2	0.0002 ppm	-0.0020 ppm	-0.0003 ppm	0.0115 ppm	0.0000 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run 3	0.0001 ppm	0.0022 ppm	0.0001 ppm	0.0114 ppm	0.0000 ppm	0.0001 ppm	0.0079 ppm
Concentration RSD	41.7 %	626.8 %	213.5 %	2.9 %	48.3 %	79.6 %	70.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	-0.0007 ppm	-0.0002 ppm	-0.0001 ppm	0.0008 ppm	0.0436 ppm	0.0026 ppm
Concentration per Run 1	0.0001 ppm	-0.0007 ppm	-0.0002 ppm	-0.0001 ppm	0.0004 ppm	0.0421 ppm	0.0020 ppm
Concentration per Run 2	0.0001 ppm	-0.0007 ppm	-0.0002 ppm	0.0000 ppm	0.0006 ppm	0.0509 ppm	0.0028 ppm
Concentration per Run 3	0.0001 ppm	-0.0008 ppm	0.0000 ppm	-0.0002 ppm	0.0014 ppm	0.0378 ppm	0.0030 ppm
Concentration RSD	15.0 %	9.2 %	68.9 %	97.6 %	60.3 %	15.3 %	20.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0009 ppm	0.0003 ppm	0.0001 ppm	0.0566 ppm	-0.0011 ppm	-0.0056 ppm	0.0009 ppm
Concentration per Run 1	0.0003 ppm	0.0002 ppm	0.0001 ppm	0.0579 ppm	-0.0010 ppm	-0.0055 ppm	0.0007 ppm
Concentration per Run 2	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0550 ppm	-0.0012 ppm	-0.0058 ppm	0.0007 ppm
Concentration per Run 3	0.0013 ppm	0.0002 ppm	0.0000 ppm	0.0570 ppm	-0.0010 ppm	-0.0054 ppm	0.0013 ppm
Concentration RSD	56.2 %	31.4 %	172.1 %	2.7 %	6.9 %	4.1 %	39.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0013 ppm	19.2439 ppm	-0.0001 ppm	0.0000 ppm	0.0006 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0018 ppm	19.2535 ppm	-0.0002 ppm	0.0000 ppm	0.0006 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 2	0.0010 ppm	19.0605 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 3	0.0011 ppm	19.4176 ppm	-0.0003 ppm	0.0000 ppm	0.0005 ppm	-0.0010 ppm	-0.0001 ppm
Concentration RSD	31.9 %	0.9 %	183.9 %	346.8 %	5.4 %	285.0 %	389.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	106.0610 %	102.3433 %	99.8369 %	102.7985 %	98.7395 %	100.7128 %
Concentration per Run 1	0.0001 ppm	107.6745 %	102.4230 %	100.2582 %	104.9719 %	98.9866 %	100.6900 %
Concentration per Run 2	0.0001 ppm	105.4780 %	102.2258 %	100.1138 %	102.2636 %	99.2074 %	100.7367 %
Concentration per Run 3	0.0002 ppm	105.0306 %	102.3812 %	99.1388 %	101.1599 %	98.0243 %	100.7116 %
Concentration RSD	48.4 %	1.3 %	0.1 %	0.6 %	1.9 %	0.6 %	0.0 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: LDR 5 Mo pass
Analysis started at: 9/27/2024 12:13:37 PM
Comments <Comment>
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.1271 ppm	-0.0014 ppm	-0.0134 ppm	-0.0001 ppm	-0.0002 ppm	0.0024 ppm
Concentration per Run 1	0.0000 ppm	0.1191 ppm	-0.0020 ppm	-0.0132 ppm	0.0000 ppm	-0.0001 ppm	0.0022 ppm
Concentration per Run 2	0.0002 ppm	0.1293 ppm	-0.0007 ppm	-0.0139 ppm	-0.0001 ppm	-0.0002 ppm	0.0033 ppm
Concentration per Run 3	0.0003 ppm	0.1328 ppm	-0.0013 ppm	-0.0131 ppm	-0.0002 ppm	-0.0002 ppm	0.0018 ppm
Concentration RSD	118.5 %	5.6 %	48.7 %	3.3 %	64.8 %	5.9 %	32.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	-0.0001 ppm	-0.0013 ppm	0.0017 ppm	-0.0005 ppm	0.0142 ppm	0.0020 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	-0.0012 ppm	0.0016 ppm	-0.0003 ppm	0.0109 ppm	0.0015 ppm
Concentration per Run 2	-0.0002 ppm	-0.0001 ppm	-0.0014 ppm	0.0017 ppm	-0.0004 ppm	0.0289 ppm	0.0022 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	-0.0012 ppm	0.0016 ppm	-0.0007 ppm	0.0028 ppm	0.0022 ppm
Concentration RSD	9.8 %	19.8 %	8.7 %	3.4 %	37.9 %	94.2 %	18.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.1116 ppm	0.0000 ppm	4.9975 ppm	0.0302 ppm	0.0010 ppm	-0.0039 ppm	-0.0035 ppm
Concentration per Run 1	-0.1131 ppm	0.0001 ppm	5.0314 ppm	0.0296 ppm	0.0012 ppm	-0.0040 ppm	-0.0035 ppm
Concentration per Run 2	-0.1103 ppm	-0.0001 ppm	4.9980 ppm	0.0311 ppm	0.0009 ppm	-0.0039 ppm	-0.0038 ppm
Concentration per Run 3	-0.1114 ppm	0.0001 ppm	4.9632 ppm	0.0299 ppm	0.0009 ppm	-0.0037 ppm	-0.0032 ppm
Concentration RSD	1.3 %	265.0 %	0.7 %	2.7 %	15.9 %	5.0 %	9.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0016 ppm	0.0671 ppm	0.0002 ppm	0.0000 ppm	0.0012 ppm	0.0003 ppm	0.0148 ppm
Concentration per Run 1	0.0018 ppm	0.0677 ppm	0.0003 ppm	0.0000 ppm	0.0013 ppm	-0.0003 ppm	0.0146 ppm
Concentration per Run 2	0.0016 ppm	0.0671 ppm	0.0000 ppm	-0.0001 ppm	0.0010 ppm	0.0008 ppm	0.0145 ppm
Concentration per Run 3	0.0013 ppm	0.0666 ppm	0.0002 ppm	0.0000 ppm	0.0013 ppm	0.0004 ppm	0.0152 ppm
Concentration RSD	15.9 %	0.8 %	72.1 %	535.7 %	15.5 %	187.4 %	2.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0005 ppm	102.7074 %	101.3817 %	98.8186 %	100.0016 %	99.0947 %	98.9024 %
Concentration per Run 1	-0.0004 ppm	103.4284 %	101.5586 %	98.2251 %	102.9160 %	98.4905 %	98.8818 %
Concentration per Run 2	-0.0005 ppm	102.6449 %	101.5129 %	98.4333 %	98.6626 %	98.7408 %	98.8699 %
Concentration per Run 3	-0.0005 ppm	102.0490 %	101.0736 %	99.7975 %	98.4263 %	100.0528 %	98.9554 %
Concentration RSD	10.2 %	0.7 %	0.3 %	0.9 %	2.5 %	0.8 %	0.0 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: CCV
Analysis started at: 9/27/2024 12:26:12 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5045 ppm	0.5017 ppm	0.4931 ppm	0.5051 ppm	0.5008 ppm	0.5080 ppm	0.5189 ppm
Concentration per Run 1	0.5061 ppm	0.4885 ppm	0.4914 ppm	0.5043 ppm	0.4856 ppm	0.4935 ppm	0.5077 ppm
Concentration per Run 2	0.5026 ppm	0.5091 ppm	0.4936 ppm	0.5058 ppm	0.5075 ppm	0.5130 ppm	0.5180 ppm
Concentration per Run 3	0.5048 ppm	0.5076 ppm	0.4943 ppm	0.5053 ppm	0.5092 ppm	0.5174 ppm	0.5311 ppm
Recovery Percentage 1	100.898 %	100.344 %	98.621 %	101.023 %	100.156 %	101.591 %	103.785 %
Concentration RSD	0.4 %	2.3 %	0.3 %	0.2 %	2.6 %	2.5 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5066 ppm	0.4789 ppm	0.5038 ppm	0.4840 ppm	0.5085 ppm	5.0271 ppm	0.4780 ppm
Concentration per Run 1	0.5072 ppm	0.4802 ppm	0.5076 ppm	0.4846 ppm	0.4923 ppm	4.8550 ppm	0.4645 ppm
Concentration per Run 2	0.5061 ppm	0.4787 ppm	0.5037 ppm	0.4815 ppm	0.5143 ppm	5.1053 ppm	0.4854 ppm
Concentration per Run 3	0.5065 ppm	0.4779 ppm	0.5000 ppm	0.4858 ppm	0.5188 ppm	5.1211 ppm	0.4841 ppm
Recovery Percentage 1	101.318 %	95.784 %	100.752 %	96.791 %	101.690 %	100.543 %	95.599 %
Concentration RSD	0.1 %	0.2 %	0.8 %	0.5 %	2.8 %	3.0 %	2.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5191 ppm	0.5015 ppm	0.4965 ppm	9.5538 ppm	0.4747 ppm	0.4805 ppm	0.4753 ppm
Concentration per Run 1	0.5225 ppm	0.4861 ppm	0.4961 ppm	9.2787 ppm	0.4759 ppm	0.4815 ppm	0.4767 ppm
Concentration per Run 2	0.5162 ppm	0.5070 ppm	0.4969 ppm	9.6802 ppm	0.4742 ppm	0.4801 ppm	0.4746 ppm
Concentration per Run 3	0.5185 ppm	0.5114 ppm	0.4965 ppm	9.7024 ppm	0.4740 ppm	0.4797 ppm	0.4745 ppm
Recovery Percentage 1	103.819 %	100.295 %	99.297 %	95.538 %	94.941 %	96.092 %	95.053 %
Concentration RSD	0.6 %	2.7 %	0.1 %	2.5 %	0.2 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4959 ppm	5.1958 ppm	0.4957 ppm	0.4806 ppm	0.5070 ppm	0.4922 ppm	0.4988 ppm
Concentration per Run 1	0.4960 ppm	5.2053 ppm	0.4964 ppm	0.4661 ppm	0.5107 ppm	0.4936 ppm	0.5023 ppm
Concentration per Run 2	0.4970 ppm	5.1923 ppm	0.4968 ppm	0.4869 ppm	0.5057 ppm	0.4911 ppm	0.4987 ppm
Concentration per Run 3	0.4947 ppm	5.1898 ppm	0.4938 ppm	0.4887 ppm	0.5046 ppm	0.4918 ppm	0.4956 ppm
Recovery Percentage 1	99.177 %	98.968 %	99.136 %	96.114 %	101.396 %	98.438 %	99.770 %
Concentration RSD	0.2 %	0.2 %	0.3 %	2.6 %	0.6 %	0.3 %	0.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4767 ppm	99.4596 %	100.8018 %	101.2558 %	97.4989 %	94.9355 %	99.7979 %
Concentration per Run 1	0.4786 ppm	101.0408 %	100.8541 %	101.2273 %	100.3948 %	94.6650 %	99.4435 %
Concentration per Run 2	0.4760 ppm	98.7001 %	100.8240 %	101.3604 %	96.3220 %	95.1896 %	99.9941 %
Concentration per Run 3	0.4755 ppm	98.6378 %	100.7273 %	101.1796 %	95.7799 %	94.9520 %	99.9561 %
Recovery Percentage 1	95.344 %						
Concentration RSD	0.4 %	1.4 %	0.1 %	0.1 %	2.6 %	0.3 %	0.3 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: CCB
Analysis started at: 9/27/2024 12:32:15 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0014 ppm	0.0004 ppm	0.0064 ppm	0.0000 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 1	-0.0001 ppm	-0.0021 ppm	0.0007 ppm	0.0066 ppm	-0.0001 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0003 ppm	0.0064 ppm	0.0000 ppm	-0.0001 ppm	0.0018 ppm
Concentration per Run 3	0.0000 ppm	-0.0017 ppm	0.0002 ppm	0.0062 ppm	-0.0001 ppm	0.0000 ppm	0.0031 ppm
Recovery Percentage 1	-0.038 %	-1.359 %	8.139 %	21.361 %	-0.477 %	-0.556 %	1.384 %
Concentration RSD	2,676.7 %	70.4 %	63.6 %	3.2 %	45.3 %	74.8 %	139.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0113 ppm	0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	-0.0008 ppm	0.0044 ppm	0.0013 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm	-0.0005 ppm	0.0198 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0002 ppm	0.0002 ppm	0.0098 ppm	0.0008 ppm
Recovery Percentage 1	-0.245 %	0.170 %	0.673 %	-0.295 %	-0.739 %	0.452 %	8.898 %
Concentration RSD	217.9 %	190.6 %	404.7 %	569.6 %	133.7 %	69.1 %	37.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0002 ppm	0.0001 ppm	0.0005 ppm	0.0056 ppm	0.0001 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 1	-0.0007 ppm	0.0001 ppm	0.0005 ppm	0.0062 ppm	0.0003 ppm	-0.0002 ppm	-0.0004 ppm
Concentration per Run 2	0.0003 ppm	0.0001 ppm	0.0006 ppm	0.0059 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 3	0.0009 ppm	0.0002 ppm	0.0004 ppm	0.0047 ppm	0.0000 ppm	-0.0002 ppm	-0.0003 ppm
Recovery Percentage 1	0.156 %	1.468 %	0.969 %	0.281 %	0.257 %	-1.141 %	-0.533 %
Concentration RSD	516.9 %	51.9 %	13.8 %	14.0 %	309.0 %	153.2 %	62.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	-0.0005 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0012 ppm	-0.0005 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 2	-0.0021 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	-0.0006 ppm	-0.0007 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm
Recovery Percentage 1	-4.945 %	-0.101 %	0.700 %	-0.334 %	0.766 %	0.696 %	-0.260 %
Concentration RSD	337.8 %	33.3 %	84.1 %	74.1 %	153.1 %	53.5 %	284.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	99.8773 %	99.4740 %	101.9492 %	97.6706 %	101.5952 %	98.4333 %
Concentration per Run 1	0.0002 ppm	101.1499 %	97.0350 %	102.1645 %	100.3100 %	101.7142 %	96.1153 %
Concentration per Run 2	0.0001 ppm	99.7852 %	100.5678 %	101.5806 %	96.7977 %	101.7544 %	99.7082 %
Concentration per Run 3	0.0000 ppm	98.6969 %	100.8190 %	102.1024 %	95.9040 %	101.3169 %	99.4764 %
Recovery Percentage 1	1.809 %						
Concentration RSD	110.3 %	1.2 %	2.1 %	0.3 %	2.4 %	0.2 %	2.0 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: WG1976470-1 WG1976470
Analysis started at: 9/27/2024 12:47:50 PM
Comments <Comment>
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0043 ppm	-0.0032 ppm	0.0053 ppm	0.0001 ppm	0.0000 ppm	0.0173 ppm
Concentration per Run 1	0.0003 ppm	0.0017 ppm	-0.0021 ppm	0.0054 ppm	0.0001 ppm	0.0000 ppm	0.0160 ppm
Concentration per Run 2	0.0004 ppm	0.0047 ppm	-0.0032 ppm	0.0053 ppm	0.0000 ppm	0.0000 ppm	0.0184 ppm
Concentration per Run 3	0.0001 ppm	0.0065 ppm	-0.0042 ppm	0.0053 ppm	0.0001 ppm	0.0000 ppm	0.0174 ppm
Recovery Percentage 1	4.036 %	4.287 %	-63.463 %	17.805 %	0.640 %	0.012 %	17.293 %
Concentration RSD	48.8 %	57.3 %	33.8 %	1.6 %	51.7 %	2,368.8 %	7.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	-0.0006 ppm	0.0002 ppm	0.0001 ppm	0.0154 ppm	0.0053 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	-0.0006 ppm	0.0000 ppm	0.0002 ppm	0.0154 ppm	0.0215 ppm	0.0003 ppm
Concentration per Run 2	0.0001 ppm	-0.0007 ppm	0.0005 ppm	0.0000 ppm	0.0154 ppm	-0.0035 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0006 ppm	0.0002 ppm	0.0002 ppm	0.0155 ppm	-0.0020 ppm	0.0002 ppm
Recovery Percentage 1	2.213 %	-3.235 %	2.123 %	1.499 %	30.823 %	0.213 %	4.204 %
Concentration RSD	47.8 %	6.6 %	125.6 %	86.0 %	0.4 %	262.9 %	60.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0045 ppm	0.0005 ppm	0.0004 ppm	0.0134 ppm	-0.0001 ppm	-0.0014 ppm	0.0003 ppm
Concentration per Run 1	0.0055 ppm	0.0006 ppm	0.0004 ppm	0.0126 ppm	0.0000 ppm	-0.0018 ppm	0.0001 ppm
Concentration per Run 2	0.0049 ppm	0.0004 ppm	0.0004 ppm	0.0150 ppm	0.0000 ppm	-0.0012 ppm	0.0005 ppm
Concentration per Run 3	0.0033 ppm	0.0005 ppm	0.0004 ppm	0.0125 ppm	-0.0002 ppm	-0.0012 ppm	0.0001 ppm
Recovery Percentage 1	4.539 %	4.810 %	0.864 %	0.668 %	-0.404 %	-13.676 %	0.509 %
Concentration RSD	25.2 %	21.6 %	2.4 %	10.7 %	119.2 %	24.3 %	86.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0001 ppm	0.0118 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	-0.0021 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0121 ppm	0.0008 ppm	0.0000 ppm	0.0002 ppm	-0.0019 ppm	-0.0001 ppm
Concentration per Run 2	-0.0003 ppm	0.0114 ppm	0.0012 ppm	0.0000 ppm	0.0001 ppm	-0.0015 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	0.0118 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0030 ppm	0.0000 ppm
Recovery Percentage 1	-0.570 %	2.360 %	1.646 %	-0.013 %	1.320 %	-10.536 %	-0.264 %
Concentration RSD	328.3 %	2.9 %	44.5 %	1,088.7 %	63.0 %	36.6 %	315.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0012 ppm	98.8829 %	102.6195 %	102.6211 %	97.1524 %	94.9835 %	101.4759 %
Concentration per Run 1	0.0012 ppm	100.3068 %	102.7745 %	102.9829 %	100.7894 %	95.3385 %	101.5000 %
Concentration per Run 2	0.0012 ppm	98.2238 %	102.7276 %	102.4467 %	95.5603 %	94.6831 %	101.7707 %
Concentration per Run 3	0.0012 ppm	98.1180 %	102.3565 %	102.4337 %	95.1075 %	94.9290 %	101.1569 %
Recovery Percentage 1	23.318 %						
Concentration RSD	1.8 %	1.2 %	0.2 %	0.3 %	3.3 %	0.3 %	0.3 %

ICP DataTrace 4

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LabBook: WG1977137_09272024T4.imexp

Sample: WG1976470-2D2 WG1976470
Analysis started at: 9/27/2024 12:54:14 PM
Comments <Comment>
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0521 ppm	2.1261 ppm	0.1190 ppm	0.9707 ppm	2.0774 ppm	0.0537 ppm	10.6115 ppm
Concentration per Run 1	0.0517 ppm	2.0929 ppm	0.1182 ppm	0.9679 ppm	2.0418 ppm	0.0531 ppm	10.5031 ppm
Concentration per Run 2	0.0522 ppm	2.1427 ppm	0.1201 ppm	0.9697 ppm	2.0842 ppm	0.0541 ppm	10.6682 ppm
Concentration per Run 3	0.0523 ppm	2.1427 ppm	0.1189 ppm	0.9746 ppm	2.1061 ppm	0.0540 ppm	10.6631 ppm
Concentration RSD	0.7 %	1.4 %	0.8 %	0.4 %	1.6 %	1.0 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0547 ppm	0.5051 ppm	0.2109 ppm	0.2584 ppm	1.0923 ppm	10.4518 ppm	0.0004 ppm
Concentration per Run 1	0.0548 ppm	0.5053 ppm	0.2110 ppm	0.2572 ppm	1.0741 ppm	10.2779 ppm	0.0004 ppm
Concentration per Run 2	0.0549 ppm	0.5043 ppm	0.2107 ppm	0.2605 ppm	1.1029 ppm	10.5227 ppm	0.0006 ppm
Concentration per Run 3	0.0544 ppm	0.5056 ppm	0.2111 ppm	0.2575 ppm	1.0999 ppm	10.5548 ppm	0.0002 ppm
Concentration RSD	0.5 %	0.1 %	0.1 %	0.7 %	1.5 %	1.4 %	45.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.3760 ppm	0.5393 ppm	1.0135 ppm	10.2749 ppm	0.5064 ppm	0.5357 ppm	0.4972 ppm
Concentration per Run 1	10.3760 ppm	0.5337 ppm	1.0110 ppm	10.0824 ppm	0.5073 ppm	0.5356 ppm	0.4955 ppm
Concentration per Run 2	10.4088 ppm	0.5413 ppm	1.0151 ppm	10.3614 ppm	0.5051 ppm	0.5348 ppm	0.4945 ppm
Concentration per Run 3	10.3432 ppm	0.5428 ppm	1.0143 ppm	10.3809 ppm	0.5068 ppm	0.5366 ppm	0.5017 ppm
Concentration RSD	0.3 %	0.9 %	0.2 %	1.6 %	0.2 %	0.2 %	0.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1137 ppm	0.8456 ppm	0.9905 ppm	0.9945 ppm	1.0405 ppm	0.1187 ppm	0.5257 ppm
Concentration per Run 1	0.1120 ppm	0.8453 ppm	0.9902 ppm	0.9795 ppm	1.0387 ppm	0.1183 ppm	0.5263 ppm
Concentration per Run 2	0.1146 ppm	0.8424 ppm	0.9901 ppm	1.0034 ppm	1.0422 ppm	0.1174 ppm	0.5255 ppm
Concentration per Run 3	0.1145 ppm	0.8493 ppm	0.9913 ppm	1.0005 ppm	1.0405 ppm	0.1204 ppm	0.5254 ppm
Concentration RSD	1.3 %	0.4 %	0.1 %	1.3 %	0.2 %	1.3 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5104 ppm	96.9850 %	98.7175 %	99.7872 %	94.4368 %	89.6182 %	98.0300 %
Concentration per Run 1	0.5126 ppm	97.3208 %	98.8109 %	100.1712 %	95.9640 %	89.8093 %	98.3540 %
Concentration per Run 2	0.5098 ppm	97.1620 %	98.7659 %	99.6149 %	93.7701 %	89.7091 %	97.8886 %
Concentration per Run 3	0.5088 ppm	96.4723 %	98.5758 %	99.5754 %	93.5764 %	89.3360 %	97.8473 %
Concentration RSD	0.4 %	0.5 %	0.1 %	0.3 %	1.4 %	0.3 %	0.3 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: eL2452699-01 WG1975964
Analysis started at: 9/27/2024 1:00:26 PM
Comments <Comment>
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0024 ppm	0.0868 ppm	0.0169 ppm	0.0208 ppm	1.1531 ppm	0.0002 ppm	35.5093 ppm
Concentration per Run 1	0.0023 ppm	0.0830 ppm	0.0179 ppm	0.0209 ppm	1.1364 ppm	0.0002 ppm	35.1988 ppm
Concentration per Run 2	0.0024 ppm	0.0893 ppm	0.0154 ppm	0.0208 ppm	1.1555 ppm	0.0002 ppm	35.7631 ppm
Concentration per Run 3	0.0025 ppm	0.0882 ppm	0.0174 ppm	0.0207 ppm	1.1675 ppm	0.0002 ppm	35.5661 ppm
Concentration RSD	4.4 %	3.9 %	7.8 %	0.6 %	1.4 %	11.1 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0051 ppm	0.0371 ppm	0.0105 ppm	0.0818 ppm	17.1680 ppm	3.5236 ppm	-0.0017 ppm
Concentration per Run 1	0.0051 ppm	0.0369 ppm	0.0103 ppm	0.0823 ppm	16.9572 ppm	3.4407 ppm	-0.0020 ppm
Concentration per Run 2	0.0051 ppm	0.0373 ppm	0.0107 ppm	0.0808 ppm	17.2694 ppm	3.4903 ppm	-0.0021 ppm
Concentration per Run 3	0.0052 ppm	0.0371 ppm	0.0104 ppm	0.0823 ppm	17.2773 ppm	3.6399 ppm	-0.0009 ppm
Concentration RSD	0.9 %	0.5 %	1.8 %	1.0 %	1.1 %	2.9 %	39.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.0648 ppm	56.2373 [SIC 30]	0.0002 ppm	96.8931 ppm	0.0106 ppm	0.0017 ppm	-0.0003 ppm
Concentration per Run 1	4.0550 ppm	56.1869 ppm	0.0002 ppm	94.6044 ppm	0.0108 ppm	0.0017 ppm	0.0001 ppm
Concentration per Run 2	4.0740 ppm	56.2287 ppm	0.0002 ppm	95.9223 ppm	0.0109 ppm	0.0022 ppm	-0.0009 ppm
Concentration per Run 3	4.0654 ppm	56.2962 ppm	0.0002 ppm	100.1525 ppm	0.0102 ppm	0.0012 ppm	0.0000 ppm
Concentration RSD	0.2 %	0.1 %	14.5 %	3.0 %	3.8 %	29.6 %	216.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0072 ppm	7.0465 ppm	-0.0008 ppm	0.2575 ppm	0.0025 ppm	0.0028 ppm	0.0012 ppm
Concentration per Run 1	-0.0090 ppm	7.0532 ppm	-0.0009 ppm	0.2535 ppm	0.0026 ppm	0.0018 ppm	0.0030 ppm
Concentration per Run 2	-0.0058 ppm	7.0276 ppm	-0.0005 ppm	0.2582 ppm	0.0024 ppm	0.0038 ppm	0.0000 ppm
Concentration per Run 3	-0.0068 ppm	7.0588 ppm	-0.0009 ppm	0.2607 ppm	0.0025 ppm	0.0026 ppm	0.0005 ppm
Concentration RSD	22.5 %	0.2 %	26.6 %	1.4 %	3.7 %	36.3 %	139.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0250 ppm	105.1325 %	102.9128 %	104.8199 %	96.2994 %	83.2003 %	94.6354 %
Concentration per Run 1	0.0251 ppm	104.8079 %	102.8033 %	104.9661 %	97.6360 %	83.2080 %	94.5513 %
Concentration per Run 2	0.0250 ppm	105.3113 %	103.0051 %	105.2766 %	95.8282 %	83.5294 %	94.7636 %
Concentration per Run 3	0.0250 ppm	105.2784 %	102.9300 %	104.2169 %	95.4340 %	82.8634 %	94.5912 %
Concentration RSD	0.3 %	0.3 %	0.1 %	0.5 %	1.2 %	0.4 %	0.1 %

ICP DataTrace 4

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LabBook: WG1977137_09272024T4.imexp

Sample: L2452699-03 WG1975964
Analysis started at: 9/27/2024 1:06:58 PM
Comments <Comment>
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0006 ppm	0.0006 ppm	0.0235 ppm	0.0114 ppm	0.0000 ppm	21.2225 ppm
Concentration per Run 1	0.0002 ppm	-0.0013 ppm	-0.0017 ppm	0.0237 ppm	0.0112 ppm	0.0000 ppm	20.8085 ppm
Concentration per Run 2	0.0001 ppm	-0.0005 ppm	0.0028 ppm	0.0234 ppm	0.0116 ppm	0.0000 ppm	21.3440 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0234 ppm	0.0116 ppm	0.0000 ppm	21.5151 ppm
Concentration RSD	35.8 %	95.0 %	375.8 %	0.8 %	2.1 %	10.4 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0050 ppm	0.0023 ppm	3.3477 ppm	-0.0017 ppm
Concentration per Run 1	-0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0049 ppm	0.0020 ppm	3.3219 ppm	-0.0017 ppm
Concentration per Run 2	-0.0001 ppm	-0.0003 ppm	-0.0002 ppm	0.0048 ppm	0.0025 ppm	3.3868 ppm	-0.0017 ppm
Concentration per Run 3	-0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0051 ppm	0.0023 ppm	3.3345 ppm	-0.0018 ppm
Concentration RSD	17.1 %	24.1 %	896.8 %	3.0 %	11.7 %	1.0 %	3.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.6257 ppm	0.0138 ppm	0.0013 ppm	97.6698 ppm	-0.0005 ppm	-0.0015 ppm	0.0003 ppm
Concentration per Run 1	3.6259 ppm	0.0136 ppm	0.0014 ppm	96.9585 ppm	-0.0005 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 2	3.5997 ppm	0.0137 ppm	0.0014 ppm	98.5804 ppm	-0.0004 ppm	-0.0019 ppm	0.0004 ppm
Concentration per Run 3	3.6517 ppm	0.0140 ppm	0.0012 ppm	97.4704 ppm	-0.0007 ppm	-0.0015 ppm	0.0005 ppm
Concentration RSD	0.7 %	1.3 %	9.7 %	0.8 %	25.8 %	30.7 %	65.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	4.1503 ppm	-0.0002 ppm	0.0986 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 1	0.0012 ppm	4.1730 ppm	0.0000 ppm	0.0965 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 2	0.0009 ppm	4.1673 ppm	-0.0005 ppm	0.0994 ppm	0.0000 ppm	-0.0009 ppm	0.0003 ppm
Concentration per Run 3	-0.0021 ppm	4.1104 ppm	-0.0001 ppm	0.0998 ppm	0.0000 ppm	0.0006 ppm	-0.0001 ppm
Concentration RSD	17,292.7 %	0.8 %	138.3 %	1.8 %	345.0 %	488.0 %	205.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0005 ppm	97.9585 %	94.5798 %	95.6603 %	97.5117 %	84.5033 %	93.8267 %
Concentration per Run 1	0.0005 ppm	98.2701 %	95.0512 %	95.0396 %	99.5664 %	83.9652 %	93.8401 %
Concentration per Run 2	0.0004 ppm	98.4859 %	95.0468 %	95.7105 %	97.2487 %	84.4924 %	94.5409 %
Concentration per Run 3	0.0006 ppm	97.1195 %	93.6414 %	96.2308 %	95.7201 %	85.0522 %	93.0993 %
Concentration RSD	13.1 %	0.7 %	0.9 %	0.6 %	2.0 %	0.6 %	0.8 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454585-01 WG1975964
Analysis started at: 9/27/2024 1:13:25 PM
Comments <Comment>
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	1.5447 ppm	0.0088 ppm	0.0542 ppm	0.4942 ppm	0.0000 ppm	44.7759 ppm
Concentration per Run 1	0.0001 ppm	1.5343 ppm	0.0089 ppm	0.0544 ppm	0.4910 ppm	0.0000 ppm	44.9848 ppm
Concentration per Run 2	0.0003 ppm	1.5466 ppm	0.0090 ppm	0.0538 ppm	0.4935 ppm	0.0000 ppm	44.5986 ppm
Concentration per Run 3	0.0001 ppm	1.5532 ppm	0.0086 ppm	0.0543 ppm	0.4981 ppm	0.0000 ppm	44.7442 ppm
Concentration RSD	73.3 %	0.6 %	2.0 %	0.6 %	0.7 %	32.0 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0012 ppm	0.0147 ppm	0.0690 ppm	15.9526 ppm	227.4394 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0013 ppm	0.0147 ppm	0.0698 ppm	15.9591 ppm	222.6818 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0011 ppm	0.0148 ppm	0.0686 ppm	15.8842 ppm	229.9962 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0012 ppm	0.0146 ppm	0.0687 ppm	16.0144 ppm	229.6403 ppm	0.0017 ppm
Concentration RSD	152.5 %	4.8 %	0.8 %	0.9 %	0.4 %	1.8 %	59.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.2744 ppm	0.1373 ppm	0.0078 ppm	110.6850 ppm	0.0157 ppm	0.0014 ppm	0.0032 ppm
Concentration per Run 1	10.2764 ppm	0.1377 ppm	0.0077 ppm	107.8403 ppm	0.0158 ppm	0.0014 ppm	0.0036 ppm
Concentration per Run 2	10.2556 ppm	0.1368 ppm	0.0079 ppm	114.7725 ppm	0.0158 ppm	0.0014 ppm	0.0026 ppm
Concentration per Run 3	10.2913 ppm	0.1374 ppm	0.0078 ppm	109.4423 ppm	0.0156 ppm	0.0013 ppm	0.0035 ppm
Concentration RSD	0.2 %	0.3 %	1.6 %	3.3 %	0.6 %	5.4 %	18.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	2.4144 ppm	0.0010 ppm	0.3169 ppm	0.0049 ppm	0.0005 ppm	0.0019 ppm
Concentration per Run 1	0.0002 ppm	2.4106 ppm	0.0008 ppm	0.3150 ppm	0.0049 ppm	0.0008 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	2.4124 ppm	0.0008 ppm	0.3163 ppm	0.0050 ppm	-0.0002 ppm	0.0019 ppm
Concentration per Run 3	-0.0002 ppm	2.4203 ppm	0.0013 ppm	0.3194 ppm	0.0048 ppm	0.0007 ppm	0.0020 ppm
Concentration RSD	11,011.2 %	0.2 %	31.0 %	0.7 %	1.5 %	115.6 %	6.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3961 ppm	96.1804 %	90.8601 %	90.7067 %	95.0050 %	75.1130 %	90.0708 %
Concentration per Run 1	0.3948 ppm	95.5243 %	90.9934 %	90.9906 %	95.4628 %	75.5187 %	90.1032 %
Concentration per Run 2	0.3971 ppm	96.6910 %	90.4784 %	90.7425 %	95.1272 %	75.0288 %	89.9228 %
Concentration per Run 3	0.3963 ppm	96.3258 %	91.1086 %	90.3869 %	94.4249 %	74.7914 %	90.1863 %
Concentration RSD	0.3 %	0.6 %	0.4 %	0.3 %	0.6 %	0.5 %	0.1 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454222-01D2 WG1976470
Analysis started at: 9/27/2024 1:19:51 PM
Comments <Comment>
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	10.3301 ppm	0.0083 ppm	0.0082 ppm	0.0443 ppm	0.0004 ppm	4.3732 ppm
Concentration per Run 1	-0.0003 ppm	9.9636 ppm	0.0075 ppm	0.0082 ppm	0.0429 ppm	0.0004 ppm	4.2118 ppm
Concentration per Run 2	-0.0005 ppm	10.5541 ppm	0.0088 ppm	0.0082 ppm	0.0450 ppm	0.0004 ppm	4.4291 ppm
Concentration per Run 3	-0.0001 ppm	10.4727 ppm	0.0087 ppm	0.0082 ppm	0.0450 ppm	0.0004 ppm	4.4788 ppm
Concentration RSD	66.0 %	3.1 %	8.8 %	0.6 %	2.7 %	2.0 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0002 ppm	0.0075 ppm	0.0469 ppm	0.0131 ppm	24.7449 ppm	2.0762 ppm	0.0244 ppm
Concentration per Run 1	0.0002 ppm	0.0074 ppm	0.0471 ppm	0.0131 ppm	23.8387 ppm	1.9937 ppm	0.0238 ppm
Concentration per Run 2	0.0002 ppm	0.0074 ppm	0.0468 ppm	0.0128 ppm	25.1702 ppm	2.1532 ppm	0.0254 ppm
Concentration per Run 3	0.0002 ppm	0.0075 ppm	0.0469 ppm	0.0133 ppm	25.2256 ppm	2.0816 ppm	0.0240 ppm
Concentration RSD	3.6 %	0.9 %	0.2 %	1.7 %	3.2 %	3.8 %	3.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.8051 ppm	0.1568 ppm	0.0019 ppm	0.2121 ppm	0.0154 ppm	0.0161 ppm	0.0000 ppm
Concentration per Run 1	3.8111 ppm	0.1511 ppm	0.0018 ppm	0.2054 ppm	0.0154 ppm	0.0159 ppm	0.0004 ppm
Concentration per Run 2	3.8075 ppm	0.1594 ppm	0.0020 ppm	0.2207 ppm	0.0158 ppm	0.0164 ppm	-0.0001 ppm
Concentration per Run 3	3.7966 ppm	0.1598 ppm	0.0018 ppm	0.2102 ppm	0.0150 ppm	0.0160 ppm	-0.0004 ppm
Concentration RSD	0.2 %	3.1 %	4.4 %	3.7 %	2.5 %	1.4 %	1,024.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0001 ppm	1.3665 ppm	0.0019 ppm	0.0308 ppm	0.8582 ppm	-0.0011 ppm	0.0468 ppm
Concentration per Run 1	-0.0014 ppm	1.3702 ppm	0.0019 ppm	0.0297 ppm	0.8620 ppm	-0.0006 ppm	0.0467 ppm
Concentration per Run 2	0.0002 ppm	1.3659 ppm	0.0019 ppm	0.0313 ppm	0.8525 ppm	-0.0014 ppm	0.0465 ppm
Concentration per Run 3	0.0009 ppm	1.3634 ppm	0.0019 ppm	0.0313 ppm	0.8601 ppm	-0.0013 ppm	0.0472 ppm
Concentration RSD	1,094.1 %	0.3 %	1.5 %	3.1 %	0.6 %	39.8 %	0.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0453 ppm	103.1238 %	103.5452 %	104.0880 %	98.3140 %	90.8066 %	99.0009 %
Concentration per Run 1	0.0451 ppm	104.9806 %	103.7302 %	104.0960 %	102.2561 %	90.6901 %	98.8988 %
Concentration per Run 2	0.0452 ppm	102.8840 %	103.0565 %	103.9038 %	96.8057 %	90.6918 %	99.2275 %
Concentration per Run 3	0.0454 ppm	101.5068 %	103.8488 %	104.2642 %	95.8803 %	91.0378 %	98.8763 %
Concentration RSD	0.4 %	1.7 %	0.4 %	0.2 %	3.5 %	0.2 %	0.2 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: WG1976470-3D2 WG1976470
Analysis started at: 9/27/2024 1:26:08 PM
Comments <Comment>
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0523 ppm	15.5612 ppm	0.1206 ppm	0.9273 ppm	2.1827 ppm	0.0552 ppm	14.6428 ppm
Concentration per Run 1	0.0517 ppm	15.4420 ppm	0.1199 ppm	0.9292 ppm	2.1054 ppm	0.0548 ppm	14.5019 ppm
Concentration per Run 2	0.0525 ppm	15.6422 ppm	0.1204 ppm	0.9280 ppm	2.1918 ppm	0.0552 ppm	14.6217 ppm
Concentration per Run 3	0.0525 ppm	15.5993 ppm	0.1214 ppm	0.9248 ppm	2.2511 ppm	0.0557 ppm	14.8048 ppm
Concentration RSD	0.9 %	0.7 %	0.6 %	0.2 %	3.4 %	0.8 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0522 ppm	0.5259 ppm	0.2579 ppm	0.2778 ppm	23.3004 ppm	12.2120 ppm	0.0288 ppm
Concentration per Run 1	0.0520 ppm	0.5272 ppm	0.2581 ppm	0.2778 ppm	23.1091 ppm	12.0145 ppm	0.0286 ppm
Concentration per Run 2	0.0522 ppm	0.5258 ppm	0.2580 ppm	0.2777 ppm	23.2769 ppm	12.4367 ppm	0.0292 ppm
Concentration per Run 3	0.0523 ppm	0.5245 ppm	0.2574 ppm	0.2779 ppm	23.5152 ppm	12.1848 ppm	0.0287 ppm
Concentration RSD	0.4 %	0.3 %	0.2 %	0.0 %	0.9 %	1.7 %	1.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.8233 ppm	0.6998 ppm	0.9631 ppm	10.5679 ppm	0.5397 ppm	0.5564 ppm	0.5106 ppm
Concentration per Run 1	13.8139 ppm	0.6927 ppm	0.9643 ppm	10.4437 ppm	0.5428 ppm	0.5586 ppm	0.5132 ppm
Concentration per Run 2	13.8969 ppm	0.7003 ppm	0.9615 ppm	10.7458 ppm	0.5386 ppm	0.5556 ppm	0.5123 ppm
Concentration per Run 3	13.7591 ppm	0.7064 ppm	0.9635 ppm	10.5141 ppm	0.5378 ppm	0.5551 ppm	0.5064 ppm
Concentration RSD	0.5 %	1.0 %	0.2 %	1.5 %	0.5 %	0.3 %	0.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1060 ppm	3.3214 ppm	0.9377 ppm	1.0319 ppm	1.8710 ppm	0.1193 ppm	0.5713 ppm
Concentration per Run 1	0.1064 ppm	3.3495 ppm	0.9377 ppm	1.0237 ppm	1.8754 ppm	0.1188 ppm	0.5725 ppm
Concentration per Run 2	0.1052 ppm	3.3176 ppm	0.9366 ppm	1.0353 ppm	1.8706 ppm	0.1192 ppm	0.5712 ppm
Concentration per Run 3	0.1064 ppm	3.2972 ppm	0.9389 ppm	1.0366 ppm	1.8670 ppm	0.1198 ppm	0.5702 ppm
Concentration RSD	0.7 %	0.8 %	0.1 %	0.7 %	0.2 %	0.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5657 ppm	101.8833 %	102.5585 %	102.7980 %	94.6275 %	86.3336 %	97.3195 %
Concentration per Run 1	0.5633 ppm	102.5719 %	102.6009 %	102.7982 %	95.5683 %	86.0922 %	97.2056 %
Concentration per Run 2	0.5657 ppm	102.1982 %	102.7215 %	102.6668 %	95.0837 %	86.2116 %	97.5861 %
Concentration per Run 3	0.5682 ppm	100.8798 %	102.3532 %	102.9289 %	93.2306 %	86.6969 %	97.1668 %
Concentration RSD	0.4 %	0.9 %	0.2 %	0.1 %	1.3 %	0.4 %	0.2 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: WG1976470-4D2 WG1976470
Analysis started at: 9/27/2024 1:32:20 PM
Comments <Comment>
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	8.6202 ppm	0.0054 ppm	0.0077 ppm	0.0409 ppm	0.0003 ppm	3.3833 ppm
Concentration per Run 1	0.0002 ppm	8.2757 ppm	0.0061 ppm	0.0077 ppm	0.0392 ppm	0.0003 ppm	3.2470 ppm
Concentration per Run 2	-0.0001 ppm	8.8106 ppm	0.0045 ppm	0.0079 ppm	0.0419 ppm	0.0003 ppm	3.4562 ppm
Concentration per Run 3	0.0000 ppm	8.7743 ppm	0.0057 ppm	0.0076 ppm	0.0416 ppm	0.0003 ppm	3.4467 ppm
Concentration RSD	429.4 %	3.5 %	15.2 %	1.8 %	3.6 %	2.4 %	3.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0002 ppm	0.0058 ppm	0.0330 ppm	0.0102 ppm	17.5978 ppm	1.4853 ppm	0.0198 ppm
Concentration per Run 1	0.0002 ppm	0.0058 ppm	0.0333 ppm	0.0102 ppm	16.8905 ppm	1.4400 ppm	0.0194 ppm
Concentration per Run 2	0.0002 ppm	0.0059 ppm	0.0330 ppm	0.0101 ppm	17.9962 ppm	1.4977 ppm	0.0199 ppm
Concentration per Run 3	0.0001 ppm	0.0057 ppm	0.0327 ppm	0.0102 ppm	17.9067 ppm	1.5182 ppm	0.0201 ppm
Concentration RSD	16.9 %	1.7 %	0.9 %	0.7 %	3.5 %	2.7 %	1.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.1619 ppm	0.1253 ppm	0.0016 ppm	0.1519 ppm	0.0133 ppm	0.0144 ppm	-0.0002 ppm
Concentration per Run 1	3.1760 ppm	0.1205 ppm	0.0017 ppm	0.1465 ppm	0.0132 ppm	0.0141 ppm	-0.0001 ppm
Concentration per Run 2	3.1581 ppm	0.1278 ppm	0.0016 ppm	0.1550 ppm	0.0132 ppm	0.0149 ppm	-0.0002 ppm
Concentration per Run 3	3.1516 ppm	0.1277 ppm	0.0016 ppm	0.1542 ppm	0.0135 ppm	0.0142 ppm	-0.0002 ppm
Concentration RSD	0.4 %	3.3 %	5.3 %	3.1 %	1.2 %	3.2 %	42.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0003 ppm	1.1493 ppm	0.0015 ppm	0.0277 ppm	0.7006 ppm	-0.0016 ppm	0.0332 ppm
Concentration per Run 1	-0.0003 ppm	1.1450 ppm	0.0018 ppm	0.0266 ppm	0.7051 ppm	-0.0016 ppm	0.0333 ppm
Concentration per Run 2	-0.0013 ppm	1.1508 ppm	0.0015 ppm	0.0282 ppm	0.6987 ppm	-0.0013 ppm	0.0332 ppm
Concentration per Run 3	0.0008 ppm	1.1521 ppm	0.0013 ppm	0.0283 ppm	0.6981 ppm	-0.0020 ppm	0.0332 ppm
Concentration RSD	385.2 %	0.3 %	14.6 %	3.4 %	0.6 %	21.2 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0360 ppm	102.5241 %	103.6897 %	104.6439 %	98.5968 %	92.7767 %	99.9210 %
Concentration per Run 1	0.0359 ppm	104.3562 %	103.4449 %	104.5954 %	102.4640 %	93.0793 %	99.2616 %
Concentration per Run 2	0.0361 ppm	101.6691 %	103.7809 %	104.7456 %	96.6928 %	92.7604 %	100.3317 %
Concentration per Run 3	0.0362 ppm	101.5470 %	103.8433 %	104.5907 %	96.6334 %	92.4904 %	100.1697 %
Concentration RSD	0.4 %	1.5 %	0.2 %	0.1 %	3.4 %	0.3 %	0.6 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: WG1976470-5D2 WG1976470
Analysis started at: 9/27/2024 1:38:38 PM
Comments <Comment>
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0478 ppm	12.0074 ppm	0.1194 ppm	0.8832 ppm	1.9751 ppm	0.0490 ppm	13.8977 ppm
Concentration per Run 1	0.0478 ppm	11.8004 ppm	0.1191 ppm	0.8838 ppm	1.9255 ppm	0.0482 ppm	13.7187 ppm
Concentration per Run 2	0.0476 ppm	12.1295 ppm	0.1190 ppm	0.8837 ppm	1.9730 ppm	0.0494 ppm	13.9843 ppm
Concentration per Run 3	0.0479 ppm	12.0924 ppm	0.1200 ppm	0.8821 ppm	2.0266 ppm	0.0494 ppm	13.9900 ppm
Concentration RSD	0.3 %	1.5 %	0.5 %	0.1 %	2.6 %	1.4 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0486 ppm	0.4771 ppm	0.2382 ppm	0.2527 ppm	25.2789 ppm	11.7870 ppm	0.0220 ppm
Concentration per Run 1	0.0486 ppm	0.4772 ppm	0.2365 ppm	0.2542 ppm	24.8694 ppm	11.5718 ppm	0.0216 ppm
Concentration per Run 2	0.0485 ppm	0.4766 ppm	0.2385 ppm	0.2510 ppm	25.4503 ppm	11.9152 ppm	0.0219 ppm
Concentration per Run 3	0.0488 ppm	0.4774 ppm	0.2396 ppm	0.2529 ppm	25.5171 ppm	11.8741 ppm	0.0225 ppm
Concentration RSD	0.3 %	0.1 %	0.7 %	0.6 %	1.4 %	1.6 %	2.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.1986 ppm	0.6399 ppm	0.9216 ppm	9.7825 ppm	0.4886 ppm	0.5214 ppm	0.4655 ppm
Concentration per Run 1	13.2171 ppm	0.6300 ppm	0.9184 ppm	9.5848 ppm	0.4877 ppm	0.5209 ppm	0.4645 ppm
Concentration per Run 2	13.1529 ppm	0.6454 ppm	0.9233 ppm	9.8874 ppm	0.4882 ppm	0.5219 ppm	0.4658 ppm
Concentration per Run 3	13.2257 ppm	0.6442 ppm	0.9231 ppm	9.8753 ppm	0.4898 ppm	0.5213 ppm	0.4664 ppm
Concentration RSD	0.3 %	1.3 %	0.3 %	1.8 %	0.2 %	0.1 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1044 ppm	1.9310 ppm	0.9063 ppm	0.9553 ppm	1.8162 ppm	0.1120 ppm	0.5249 ppm
Concentration per Run 1	0.1041 ppm	1.9320 ppm	0.9048 ppm	0.9384 ppm	1.8052 ppm	0.1116 ppm	0.5207 ppm
Concentration per Run 2	0.1043 ppm	1.9355 ppm	0.9087 ppm	0.9645 ppm	1.8192 ppm	0.1117 ppm	0.5253 ppm
Concentration per Run 3	0.1047 ppm	1.9254 ppm	0.9053 ppm	0.9631 ppm	1.8243 ppm	0.1126 ppm	0.5287 ppm
Concentration RSD	0.3 %	0.3 %	0.2 %	1.5 %	0.5 %	0.5 %	0.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5137 ppm	101.6667 %	102.1342 %	102.6127 %	96.4614 %	87.4554 %	97.9035 %
Concentration per Run 1	0.5118 ppm	101.9473 %	102.1800 %	102.4980 %	97.8676 %	87.4455 %	98.3924 %
Concentration per Run 2	0.5125 ppm	101.5942 %	101.9936 %	102.5031 %	95.9197 %	87.3625 %	97.8661 %
Concentration per Run 3	0.5167 ppm	101.4586 %	102.2292 %	102.8372 %	95.5970 %	87.5581 %	97.4519 %
Concentration RSD	0.5 %	0.2 %	0.1 %	0.2 %	1.3 %	0.1 %	0.5 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: WG1976470-6D10 WG1976470
Analysis started at: 9/27/2024 1:44:51 PM
Comments <Comment>
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	2.1435 ppm	0.0004 ppm	0.0048 ppm	0.0092 ppm	0.0001 ppm	0.9189 ppm
Concentration per Run 1	0.0001 ppm	2.0479 ppm	0.0002 ppm	0.0047 ppm	0.0089 ppm	0.0001 ppm	0.8827 ppm
Concentration per Run 2	0.0002 ppm	2.1987 ppm	0.0001 ppm	0.0050 ppm	0.0093 ppm	0.0001 ppm	0.9409 ppm
Concentration per Run 3	0.0000 ppm	2.1839 ppm	0.0010 ppm	0.0047 ppm	0.0094 ppm	0.0000 ppm	0.9331 ppm
Concentration RSD	115.9 %	3.9 %	114.6 %	4.1 %	2.9 %	38.5 %	3.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0014 ppm	0.0094 ppm	0.0023 ppm	5.1442 ppm	0.4003 ppm	0.0051 ppm
Concentration per Run 1	0.0000 ppm	0.0015 ppm	0.0096 ppm	0.0024 ppm	4.9117 ppm	0.4028 ppm	0.0048 ppm
Concentration per Run 2	0.0000 ppm	0.0014 ppm	0.0091 ppm	0.0023 ppm	5.3036 ppm	0.4027 ppm	0.0057 ppm
Concentration per Run 3	0.0000 ppm	0.0013 ppm	0.0095 ppm	0.0023 ppm	5.2173 ppm	0.3953 ppm	0.0050 ppm
Concentration RSD	26.5 %	7.8 %	2.8 %	2.0 %	4.0 %	1.1 %	8.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.7947 ppm	0.0330 ppm	0.0009 ppm	0.0421 ppm	0.0027 ppm	0.0025 ppm	0.0003 ppm
Concentration per Run 1	0.7955 ppm	0.0316 ppm	0.0009 ppm	0.0401 ppm	0.0027 ppm	0.0022 ppm	0.0006 ppm
Concentration per Run 2	0.7912 ppm	0.0337 ppm	0.0010 ppm	0.0448 ppm	0.0028 ppm	0.0030 ppm	-0.0003 ppm
Concentration per Run 3	0.7975 ppm	0.0335 ppm	0.0008 ppm	0.0414 ppm	0.0026 ppm	0.0023 ppm	0.0007 ppm
Concentration RSD	0.4 %	3.5 %	10.3 %	5.8 %	5.0 %	16.2 %	155.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	0.2577 ppm	0.0007 ppm	0.0063 ppm	0.1722 ppm	-0.0004 ppm	0.0094 ppm
Concentration per Run 1	-0.0013 ppm	0.2585 ppm	0.0008 ppm	0.0061 ppm	0.1709 ppm	-0.0004 ppm	0.0093 ppm
Concentration per Run 2	0.0007 ppm	0.2587 ppm	0.0009 ppm	0.0065 ppm	0.1729 ppm	-0.0005 ppm	0.0095 ppm
Concentration per Run 3	-0.0011 ppm	0.2560 ppm	0.0004 ppm	0.0064 ppm	0.1728 ppm	-0.0004 ppm	0.0093 ppm
Concentration RSD	201.5 %	0.6 %	35.3 %	3.7 %	0.7 %	17.6 %	1.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0088 ppm	100.0239 %	101.2886 %	102.1047 %	97.5326 %	96.3328 %	99.9031 %
Concentration per Run 1	0.0088 ppm	101.1749 %	101.0679 %	102.3327 %	101.3765 %	96.3514 %	100.2644 %
Concentration per Run 2	0.0090 ppm	99.1105 %	101.6963 %	102.2456 %	94.7985 %	96.6314 %	99.6913 %
Concentration per Run 3	0.0087 ppm	99.7863 %	101.1017 %	101.7359 %	96.4228 %	96.0155 %	99.7536 %
Concentration RSD	1.4 %	1.1 %	0.3 %	0.3 %	3.5 %	0.3 %	0.3 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: CCV
Analysis started at: 9/27/2024 1:51:11 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4959 ppm	0.5032 ppm	0.4944 ppm	0.4999 ppm	0.4983 ppm	0.5072 ppm	0.5084 ppm
Concentration per Run 1	0.4962 ppm	0.4918 ppm	0.4951 ppm	0.4989 ppm	0.4856 ppm	0.4936 ppm	0.4932 ppm
Concentration per Run 2	0.4944 ppm	0.5080 ppm	0.4961 ppm	0.5024 ppm	0.5017 ppm	0.5120 ppm	0.5115 ppm
Concentration per Run 3	0.4971 ppm	0.5099 ppm	0.4920 ppm	0.4986 ppm	0.5078 ppm	0.5160 ppm	0.5207 ppm
Recovery Percentage 1	99.189 %	100.642 %	98.874 %	99.989 %	99.667 %	101.437 %	101.689 %
Concentration RSD	0.3 %	2.0 %	0.4 %	0.4 %	2.3 %	2.4 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5039 ppm	0.4822 ppm	0.5043 ppm	0.4787 ppm	0.5066 ppm	5.1450 ppm	0.4824 ppm
Concentration per Run 1	0.5031 ppm	0.4829 ppm	0.5035 ppm	0.4809 ppm	0.4933 ppm	4.9947 ppm	0.4695 ppm
Concentration per Run 2	0.5076 ppm	0.4847 ppm	0.5047 ppm	0.4751 ppm	0.5130 ppm	5.1776 ppm	0.4848 ppm
Concentration per Run 3	0.5010 ppm	0.4790 ppm	0.5047 ppm	0.4803 ppm	0.5135 ppm	5.2625 ppm	0.4930 ppm
Recovery Percentage 1	100.775 %	96.443 %	100.859 %	95.748 %	101.318 %	102.899 %	96.483 %
Concentration RSD	0.7 %	0.6 %	0.1 %	0.7 %	2.3 %	2.7 %	2.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5048 ppm	0.4972 ppm	0.4972 ppm	9.7841 ppm	0.4847 ppm	0.4879 ppm	0.4775 ppm
Concentration per Run 1	0.5054 ppm	0.4820 ppm	0.4966 ppm	9.5239 ppm	0.4855 ppm	0.4884 ppm	0.4781 ppm
Concentration per Run 2	0.5035 ppm	0.5050 ppm	0.5008 ppm	9.8282 ppm	0.4874 ppm	0.4899 ppm	0.4811 ppm
Concentration per Run 3	0.5055 ppm	0.5047 ppm	0.4943 ppm	10.0001 ppm	0.4811 ppm	0.4852 ppm	0.4733 ppm
Recovery Percentage 1	100.964 %	99.449 %	99.449 %	97.841 %	96.932 %	97.572 %	95.503 %
Concentration RSD	0.2 %	2.7 %	0.7 %	2.5 %	0.7 %	0.5 %	0.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5031 ppm	5.2731 ppm	0.4941 ppm	0.4786 ppm	0.5070 ppm	0.4995 ppm	0.4986 ppm
Concentration per Run 1	0.5038 ppm	5.2839 ppm	0.4938 ppm	0.4655 ppm	0.5072 ppm	0.5001 ppm	0.4999 ppm
Concentration per Run 2	0.5034 ppm	5.2943 ppm	0.4973 ppm	0.4827 ppm	0.5060 ppm	0.5024 ppm	0.4982 ppm
Concentration per Run 3	0.5021 ppm	5.2411 ppm	0.4910 ppm	0.4877 ppm	0.5078 ppm	0.4961 ppm	0.4977 ppm
Recovery Percentage 1	100.619 %	100.440 %	98.811 %	95.723 %	101.400 %	99.902 %	99.722 %
Concentration RSD	0.2 %	0.5 %	0.6 %	2.4 %	0.2 %	0.6 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4798 ppm	99.6493 %	99.2255 %	99.8236 %	97.2203 %	92.6813 %	98.6919 %
Concentration per Run 1	0.4804 ppm	101.4704 %	99.3686 %	99.9799 %	100.1074 %	92.5275 %	98.5654 %
Concentration per Run 2	0.4836 ppm	97.8079 %	98.9786 %	99.3972 %	95.3931 %	92.3679 %	98.7560 %
Concentration per Run 3	0.4754 ppm	99.6697 %	99.3292 %	100.0936 %	96.1603 %	93.1483 %	98.7543 %
Recovery Percentage 1	95.966 %						
Concentration RSD	0.9 %	1.8 %	0.2 %	0.4 %	2.6 %	0.4 %	0.1 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: CCB
Analysis started at: 9/27/2024 1:57:14 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0032 ppm	-0.0003 ppm	0.0029 ppm	0.0000 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 1	0.0000 ppm	-0.0008 ppm	0.0001 ppm	0.0030 ppm	0.0000 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 2	0.0002 ppm	-0.0054 ppm	-0.0010 ppm	0.0027 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 3	0.0004 ppm	-0.0033 ppm	0.0000 ppm	0.0030 ppm	-0.0001 ppm	0.0000 ppm	0.0047 ppm
Recovery Percentage 1	3.012 %	-3.174 %	-5.982 %	9.754 %	-0.174 %	-0.156 %	1.287 %
Concentration RSD	97.3 %	71.6 %	202.3 %	6.2 %	287.2 %	209.8 %	243.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0173 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0234 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0186 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm	-0.0006 ppm	0.0101 ppm	0.0001 ppm
Recovery Percentage 1	-0.783 %	-0.528 %	-0.583 %	-2.419 %	-0.145 %	0.694 %	0.729 %
Concentration RSD	28.7 %	30.2 %	162.5 %	21.5 %	677.0 %	38.7 %	368.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0010 ppm	0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	0.0005 ppm	0.0002 ppm	0.0004 ppm	0.0022 ppm	0.0002 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 2	0.0026 ppm	0.0000 ppm	0.0003 ppm	-0.0025 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0008 ppm	-0.0001 ppm	0.0004 ppm	-0.0002 ppm
Recovery Percentage 1	0.980 %	1.150 %	0.639 %	0.008 %	0.089 %	-0.303 %	0.071 %
Concentration RSD	150.2 %	89.4 %	14.7 %	1,522.2 %	834.4 %	1,358.2 %	675.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0002 ppm	-0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	-0.0002 ppm	-0.0003 ppm	0.0004 ppm	0.0000 ppm	0.0001 ppm	-0.0008 ppm	0.0002 ppm
Concentration per Run 2	-0.0005 ppm	-0.0005 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0001 ppm
Recovery Percentage 1	-1.854 %	-0.066 %	0.633 %	-0.170 %	0.938 %	-1.515 %	0.722 %
Concentration RSD	142.2 %	43.1 %	76.2 %	133.1 %	70.0 %	322.0 %	166.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	99.9997 %	100.3295 %	101.2862 %	98.3883 %	100.5752 %	99.4018 %
Concentration per Run 1	-0.0001 ppm	101.6803 %	100.4213 %	101.7790 %	101.7755 %	100.5673 %	99.8367 %
Concentration per Run 2	0.0001 ppm	99.4075 %	100.2354 %	101.3999 %	97.1455 %	100.7898 %	99.3656 %
Concentration per Run 3	0.0001 ppm	98.9113 %	100.3319 %	100.6797 %	96.2441 %	100.3685 %	99.0031 %
Recovery Percentage 1	0.385 %						
Concentration RSD	381.0 %	1.5 %	0.1 %	0.6 %	3.0 %	0.2 %	0.4 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2452699-01D4 WG1975964
Analysis started at: 9/27/2024 2:13:42 PM
Comments <Comment>
Rack: 1
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0007 ppm	0.0224 ppm	0.0051 ppm	0.0070 ppm	0.2867 ppm	0.0001 ppm	8.8738 ppm
Concentration per Run 1	0.0006 ppm	0.0205 ppm	0.0044 ppm	0.0069 ppm	0.2800 ppm	0.0001 ppm	8.6724 ppm
Concentration per Run 2	0.0006 ppm	0.0248 ppm	0.0059 ppm	0.0071 ppm	0.2868 ppm	0.0000 ppm	8.9257 ppm
Concentration per Run 3	0.0009 ppm	0.0219 ppm	0.0050 ppm	0.0069 ppm	0.2934 ppm	0.0000 ppm	9.0232 ppm
Concentration RSD	23.6 %	9.7 %	15.4 %	1.7 %	2.3 %	53.3 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0014 ppm	0.0090 ppm	0.0027 ppm	0.0206 ppm	4.2435 ppm	0.8582 ppm	-0.0005 ppm
Concentration per Run 1	0.0014 ppm	0.0090 ppm	0.0028 ppm	0.0207 ppm	4.1481 ppm	0.8374 ppm	-0.0006 ppm
Concentration per Run 2	0.0014 ppm	0.0089 ppm	0.0028 ppm	0.0206 ppm	4.2644 ppm	0.8534 ppm	-0.0004 ppm
Concentration per Run 3	0.0014 ppm	0.0090 ppm	0.0026 ppm	0.0206 ppm	4.3181 ppm	0.8838 ppm	-0.0005 ppm
Concentration RSD	3.2 %	1.0 %	5.1 %	0.3 %	2.0 %	2.7 %	15.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.0855 ppm	14.4490 ppm	-0.0001 ppm	24.2074 ppm	0.0025 ppm	0.0003 ppm	-0.0003 ppm
Concentration per Run 1	1.0858 ppm	14.0991 ppm	-0.0001 ppm	23.5404 ppm	0.0023 ppm	0.0002 ppm	-0.0004 ppm
Concentration per Run 2	1.0875 ppm	14.5094 ppm	-0.0001 ppm	24.1544 ppm	0.0025 ppm	0.0003 ppm	-0.0005 ppm
Concentration per Run 3	1.0833 ppm	14.7384 ppm	-0.0001 ppm	24.9273 ppm	0.0025 ppm	0.0004 ppm	-0.0001 ppm
Concentration RSD	0.2 %	2.2 %	16.4 %	2.9 %	4.6 %	30.9 %	74.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0019 ppm	1.6804 ppm	-0.0002 ppm	0.0648 ppm	0.0005 ppm	0.0008 ppm	0.0091 ppm
Concentration per Run 1	-0.0022 ppm	1.6666 ppm	-0.0001 ppm	0.0633 ppm	0.0007 ppm	0.0014 ppm	0.0091 ppm
Concentration per Run 2	-0.0027 ppm	1.6741 ppm	0.0000 ppm	0.0648 ppm	0.0004 ppm	0.0004 ppm	0.0089 ppm
Concentration per Run 3	-0.0008 ppm	1.7006 ppm	-0.0005 ppm	0.0663 ppm	0.0005 ppm	0.0006 ppm	0.0093 ppm
Concentration RSD	49.4 %	1.1 %	115.0 %	2.3 %	26.9 %	61.2 %	2.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0062 ppm	99.9088 %	98.5673 %	100.1653 %	97.8747 %	91.8879 %	96.6692 %
Concentration per Run 1	0.0061 ppm	101.3991 %	98.5664 %	100.5687 %	100.5064 %	92.2823 %	96.7136 %
Concentration per Run 2	0.0062 ppm	99.3651 %	98.6255 %	100.4166 %	97.0777 %	92.4017 %	97.1667 %
Concentration per Run 3	0.0061 ppm	98.9620 %	98.5100 %	99.5105 %	96.0401 %	90.9798 %	96.1272 %
Concentration RSD	0.8 %	1.3 %	0.1 %	0.6 %	2.4 %	0.9 %	0.5 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454333-01 WG1976262
Analysis started at: 9/27/2024 2:20:00 PM
Comments <Comment>
Rack: 1
Vial: 45

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	3.4401 ppm	0.0131 ppm	0.4940 ppm	0.0224 ppm	0.0002 ppm	13.6156 ppm
Concentration per Run 1	0.0000 ppm	3.3760 ppm	0.0136 ppm	0.4910 ppm	0.0219 ppm	0.0002 ppm	13.3831 ppm
Concentration per Run 2	-0.0001 ppm	3.4446 ppm	0.0127 ppm	0.4948 ppm	0.0225 ppm	0.0002 ppm	13.7186 ppm
Concentration per Run 3	0.0000 ppm	3.4997 ppm	0.0128 ppm	0.4961 ppm	0.0228 ppm	0.0002 ppm	13.7450 ppm
Concentration RSD	79.4 %	1.8 %	3.6 %	0.5 %	2.1 %	5.0 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0012 ppm	0.0061 ppm	0.0324 ppm	4.1599 ppm	17.2742 ppm	0.0363 ppm
Concentration per Run 1	0.0000 ppm	0.0012 ppm	0.0059 ppm	0.0325 ppm	4.0749 ppm	16.9248 ppm	0.0353 ppm
Concentration per Run 2	-0.0001 ppm	0.0011 ppm	0.0060 ppm	0.0323 ppm	4.1748 ppm	17.2444 ppm	0.0361 ppm
Concentration per Run 3	0.0000 ppm	0.0013 ppm	0.0062 ppm	0.0324 ppm	4.2302 ppm	17.6535 ppm	0.0375 ppm
Concentration RSD	8,768.1 %	7.2 %	2.7 %	0.4 %	1.9 %	2.1 %	3.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.1380 ppm	0.3531 ppm	0.0254 ppm	165.3273 ppm	0.0028 ppm	-0.0038 ppm	-0.0007 ppm
Concentration per Run 1	4.1666 ppm	0.3460 ppm	0.0253 ppm	162.0963 ppm	0.0030 ppm	-0.0039 ppm	-0.0012 ppm
Concentration per Run 2	4.1155 ppm	0.3564 ppm	0.0254 ppm	168.5247 ppm	0.0024 ppm	-0.0038 ppm	-0.0008 ppm
Concentration per Run 3	4.1319 ppm	0.3568 ppm	0.0254 ppm	165.3610 ppm	0.0031 ppm	-0.0036 ppm	-0.0002 ppm
Concentration RSD	0.6 %	1.7 %	0.2 %	1.9 %	14.2 %	4.0 %	72.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0009 ppm	21.2700 [SIC 50]	-0.0002 ppm	0.0920 ppm	0.0977 ppm	-0.0003 ppm	0.0157 ppm
Concentration per Run 1	-0.0001 ppm	21.1231 ppm	-0.0004 ppm	0.0903 ppm	0.0972 ppm	-0.0004 ppm	0.0156 ppm
Concentration per Run 2	0.0009 ppm	21.3174 ppm	0.0000 ppm	0.0925 ppm	0.0978 ppm	-0.0002 ppm	0.0157 ppm
Concentration per Run 3	0.0019 ppm	21.3696 ppm	-0.0002 ppm	0.0931 ppm	0.0980 ppm	-0.0003 ppm	0.0158 ppm
Concentration RSD	106.9 %	0.6 %	95.3 %	1.6 %	0.4 %	45.4 %	0.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0628 ppm	98.0999 %	94.0890 %	94.6105 %	96.6929 %	78.3414 %	91.8865 %
Concentration per Run 1	0.0624 ppm	98.6170 %	94.1140 %	95.2670 %	98.8086 %	79.0037 %	91.9596 %
Concentration per Run 2	0.0627 ppm	97.9700 %	94.0993 %	94.2361 %	96.1726 %	78.0092 %	91.8247 %
Concentration per Run 3	0.0633 ppm	97.7126 %	94.0537 %	94.3283 %	95.0974 %	78.0113 %	91.8753 %
Concentration RSD	0.7 %	0.5 %	0.0 %	0.6 %	2.0 %	0.7 %	0.1 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454352-01 WG1976262
Analysis started at: 9/27/2024 2:26:26 PM
Comments <Comment>
Rack: 1
Vial: 46

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0093 ppm	-0.0016 ppm	0.0276 ppm	0.0162 ppm	0.0000 ppm	14.2225 ppm
Concentration per Run 1	0.0001 ppm	0.0074 ppm	-0.0015 ppm	0.0273 ppm	0.0158 ppm	0.0000 ppm	13.8230 ppm
Concentration per Run 2	0.0001 ppm	0.0095 ppm	-0.0010 ppm	0.0277 ppm	0.0162 ppm	0.0000 ppm	14.4057 ppm
Concentration per Run 3	0.0001 ppm	0.0111 ppm	-0.0022 ppm	0.0277 ppm	0.0166 ppm	0.0000 ppm	14.4389 ppm
Concentration RSD	16.7 %	20.0 %	38.6 %	0.8 %	2.6 %	48.7 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	-0.0003 ppm	0.0017 ppm	0.0005 ppm	0.0756 ppm	1.5265 ppm	0.0016 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0017 ppm	0.0006 ppm	0.0731 ppm	1.4632 ppm	0.0015 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	0.0017 ppm	0.0005 ppm	0.0758 ppm	1.5075 ppm	0.0016 ppm
Concentration per Run 3	-0.0001 ppm	-0.0003 ppm	0.0017 ppm	0.0006 ppm	0.0778 ppm	1.6088 ppm	0.0017 ppm
Concentration RSD	28.8 %	39.0 %	1.4 %	11.7 %	3.2 %	4.9 %	5.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.4370 ppm	0.0225 ppm	0.0001 ppm	21.3372 ppm	0.0000 ppm	-0.0027 ppm	0.0004 ppm
Concentration per Run 1	6.4708 ppm	0.0219 ppm	0.0002 ppm	20.6084 ppm	-0.0001 ppm	-0.0023 ppm	0.0001 ppm
Concentration per Run 2	6.4311 ppm	0.0227 ppm	0.0001 ppm	21.0753 ppm	0.0001 ppm	-0.0028 ppm	0.0002 ppm
Concentration per Run 3	6.4090 ppm	0.0228 ppm	0.0001 ppm	22.3279 ppm	-0.0001 ppm	-0.0029 ppm	0.0009 ppm
Concentration RSD	0.5 %	2.1 %	65.9 %	4.2 %	267.8 %	12.6 %	106.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0004 ppm	8.1285 ppm	-0.0004 ppm	0.0782 ppm	0.0006 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0008 ppm	8.1219 ppm	-0.0005 ppm	0.0760 ppm	0.0005 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 2	0.0003 ppm	8.0994 ppm	-0.0008 ppm	0.0788 ppm	0.0007 ppm	-0.0008 ppm	-0.0001 ppm
Concentration per Run 3	0.0001 ppm	8.1641 ppm	-0.0001 ppm	0.0800 ppm	0.0006 ppm	-0.0002 ppm	0.0002 ppm
Concentration RSD	81.5 %	0.4 %	79.6 %	2.6 %	13.5 %	57.6 %	462.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0015 ppm	100.2093 %	97.4224 %	96.9252 %	99.3253 %	90.2973 %	97.1192 %
Concentration per Run 1	0.0014 ppm	101.8997 %	97.3107 %	97.0856 %	102.1117 %	90.2804 %	97.2377 %
Concentration per Run 2	0.0016 ppm	99.2855 %	97.5299 %	97.2503 %	98.4163 %	90.7119 %	97.1717 %
Concentration per Run 3	0.0014 ppm	99.4427 %	97.4266 %	96.4396 %	97.4478 %	89.8994 %	96.9481 %
Concentration RSD	5.5 %	1.5 %	0.1 %	0.4 %	2.5 %	0.5 %	0.2 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454222-02D2 WG1976470
Analysis started at: 9/27/2024 2:32:47 PM
Comments <Comment>
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	21.9706 ppm	0.0208 ppm	0.0234 ppm	0.2031 ppm	0.0011 ppm	53.1962 ppm
Concentration per Run 1	0.0000 ppm	21.2382 ppm	0.0216 ppm	0.0235 ppm	0.1962 ppm	0.0011 ppm	50.8545 ppm
Concentration per Run 2	-0.0001 ppm	22.0119 ppm	0.0196 ppm	0.0232 ppm	0.2041 ppm	0.0011 ppm	54.0592 ppm
Concentration per Run 3	-0.0001 ppm	22.6618 ppm	0.0211 ppm	0.0234 ppm	0.2092 ppm	0.0011 ppm	54.6748 ppm
Concentration RSD	134.6 %	3.2 %	4.9 %	0.6 %	3.2 %	4.0 %	3.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0005 ppm	0.0191 ppm	0.0930 ppm	0.0662 ppm	51.4598 ppm	4.5953 ppm	0.0431 ppm
Concentration per Run 1	0.0006 ppm	0.0192 ppm	0.0924 ppm	0.0662 ppm	49.1244 ppm	4.4916 ppm	0.0425 ppm
Concentration per Run 2	0.0005 ppm	0.0190 ppm	0.0934 ppm	0.0663 ppm	52.1707 ppm	4.5585 ppm	0.0428 ppm
Concentration per Run 3	0.0005 ppm	0.0191 ppm	0.0932 ppm	0.0660 ppm	53.0844 ppm	4.7358 ppm	0.0442 ppm
Concentration RSD	2.3 %	0.6 %	0.6 %	0.2 %	4.0 %	2.7 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	33.2943 ppm	0.5818 ppm	0.0019 ppm	1.2276 ppm	0.0855 ppm	0.1228 ppm	-0.0002 ppm
Concentration per Run 1	33.1993 ppm	0.5600 ppm	0.0019 ppm	1.1954 ppm	0.0859 ppm	0.1230 ppm	0.0003 ppm
Concentration per Run 2	33.4384 ppm	0.5890 ppm	0.0020 ppm	1.2141 ppm	0.0851 ppm	0.1228 ppm	0.0001 ppm
Concentration per Run 3	33.2452 ppm	0.5965 ppm	0.0019 ppm	1.2732 ppm	0.0857 ppm	0.1227 ppm	-0.0010 ppm
Concentration RSD	0.4 %	3.3 %	2.5 %	3.3 %	0.5 %	0.1 %	370.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0011 ppm	1.3097 ppm	0.0040 ppm	0.1100 ppm	1.0883 ppm	-0.0009 ppm	0.0895 ppm
Concentration per Run 1	-0.0012 ppm	1.3147 ppm	0.0034 ppm	0.1062 ppm	1.0858 ppm	-0.0011 ppm	0.0894 ppm
Concentration per Run 2	-0.0014 ppm	1.3132 ppm	0.0042 ppm	0.1106 ppm	1.0906 ppm	-0.0006 ppm	0.0894 ppm
Concentration per Run 3	-0.0007 ppm	1.3011 ppm	0.0044 ppm	0.1132 ppm	1.0886 ppm	-0.0010 ppm	0.0896 ppm
Concentration RSD	31.7 %	0.6 %	13.2 %	3.2 %	0.2 %	28.7 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2355 ppm	105.7284 %	102.4170 %	101.1478 %	98.0267 %	81.4314 %	95.7296 %
Concentration per Run 1	0.2364 ppm	107.3847 %	102.3209 %	101.3737 %	102.2317 %	81.2329 %	95.7964 %
Concentration per Run 2	0.2344 ppm	104.6453 %	102.4713 %	100.7111 %	96.4242 %	81.2609 %	95.5403 %
Concentration per Run 3	0.2356 ppm	105.1551 %	102.4588 %	101.3587 %	95.4241 %	81.8005 %	95.8522 %
Concentration RSD	0.4 %	1.4 %	0.1 %	0.4 %	3.7 %	0.4 %	0.2 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454222-03D2 WG1976470
Analysis started at: 9/27/2024 2:39:01 PM
Comments <Comment>
Rack: 1
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	16.8345 ppm	0.0096 ppm	0.0072 ppm	0.0714 ppm	0.0006 ppm	3.8182 ppm
Concentration per Run 1	-0.0001 ppm	16.3617 ppm	0.0105 ppm	0.0075 ppm	0.0694 ppm	0.0006 ppm	3.7401 ppm
Concentration per Run 2	-0.0004 ppm	17.0352 ppm	0.0090 ppm	0.0071 ppm	0.0722 ppm	0.0007 ppm	3.8417 ppm
Concentration per Run 3	-0.0001 ppm	17.1065 ppm	0.0095 ppm	0.0072 ppm	0.0726 ppm	0.0007 ppm	3.8729 ppm
Concentration RSD	86.6 %	2.4 %	7.9 %	3.1 %	2.5 %	2.3 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0003 ppm	0.0173 ppm	0.0526 ppm	0.0265 ppm	27.2994 ppm	3.2153 ppm	0.0445 ppm
Concentration per Run 1	0.0003 ppm	0.0174 ppm	0.0523 ppm	0.0265 ppm	26.7149 ppm	3.0705 ppm	0.0433 ppm
Concentration per Run 2	0.0002 ppm	0.0174 ppm	0.0524 ppm	0.0263 ppm	27.5572 ppm	3.2618 ppm	0.0448 ppm
Concentration per Run 3	0.0003 ppm	0.0173 ppm	0.0530 ppm	0.0267 ppm	27.6261 ppm	3.3136 ppm	0.0453 ppm
Concentration RSD	14.2 %	0.4 %	0.7 %	0.6 %	1.9 %	4.0 %	2.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.9627 ppm	0.2326 ppm	0.0015 ppm	0.9890 ppm	0.0370 ppm	0.0187 ppm	-0.0010 ppm
Concentration per Run 1	5.9518 ppm	0.2271 ppm	0.0015 ppm	0.9573 ppm	0.0372 ppm	0.0185 ppm	-0.0013 ppm
Concentration per Run 2	5.9677 ppm	0.2343 ppm	0.0016 ppm	0.9970 ppm	0.0367 ppm	0.0190 ppm	-0.0013 ppm
Concentration per Run 3	5.9685 ppm	0.2365 ppm	0.0015 ppm	1.0127 ppm	0.0371 ppm	0.0185 ppm	-0.0002 ppm
Concentration RSD	0.2 %	2.1 %	3.2 %	2.9 %	0.7 %	1.6 %	65.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0013 ppm	0.9130 ppm	0.0019 ppm	0.0283 ppm	1.1571 ppm	-0.0011 ppm	0.0560 ppm
Concentration per Run 1	0.0015 ppm	0.9152 ppm	0.0016 ppm	0.0274 ppm	1.1527 ppm	-0.0005 ppm	0.0558 ppm
Concentration per Run 2	0.0006 ppm	0.9111 ppm	0.0020 ppm	0.0287 ppm	1.1543 ppm	-0.0016 ppm	0.0557 ppm
Concentration per Run 3	0.0018 ppm	0.9127 ppm	0.0020 ppm	0.0288 ppm	1.1644 ppm	-0.0012 ppm	0.0564 ppm
Concentration RSD	48.3 %	0.2 %	11.0 %	2.9 %	0.5 %	47.8 %	0.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0742 ppm	104.5029 %	104.5724 %	103.6613 %	99.1253 %	89.8100 %	99.7088 %
Concentration per Run 1	0.0744 ppm	105.4423 %	104.6348 %	103.7463 %	101.3992 %	89.6294 %	99.9960 %
Concentration per Run 2	0.0741 ppm	104.8660 %	104.6226 %	103.7626 %	98.7246 %	90.0413 %	99.9702 %
Concentration per Run 3	0.0742 ppm	103.2004 %	104.4598 %	103.4751 %	97.2521 %	89.7592 %	99.1603 %
Concentration RSD	0.2 %	1.1 %	0.1 %	0.2 %	2.1 %	0.2 %	0.5 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454222-04D2 WG1976470
Analysis started at: 9/27/2024 2:45:17 PM
Comments <Comment>
Rack: 1
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	9.3631 ppm	0.0083 ppm	0.0060 ppm	0.0387 ppm	0.0002 ppm	8.4426 ppm
Concentration per Run 1	-0.0002 ppm	9.0144 ppm	0.0079 ppm	0.0059 ppm	0.0373 ppm	0.0002 ppm	8.1643 ppm
Concentration per Run 2	-0.0004 ppm	9.4527 ppm	0.0095 ppm	0.0060 ppm	0.0390 ppm	0.0002 ppm	8.5899 ppm
Concentration per Run 3	0.0000 ppm	9.6221 ppm	0.0075 ppm	0.0060 ppm	0.0396 ppm	0.0002 ppm	8.5734 ppm
Concentration RSD	86.7 %	3.3 %	12.4 %	1.1 %	3.1 %	7.7 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0049 ppm	0.0381 ppm	0.0114 ppm	19.7498 ppm	2.2505 ppm	0.0188 ppm
Concentration per Run 1	0.0001 ppm	0.0049 ppm	0.0381 ppm	0.0113 ppm	19.0600 ppm	2.1485 ppm	0.0182 ppm
Concentration per Run 2	0.0001 ppm	0.0049 ppm	0.0382 ppm	0.0114 ppm	20.0367 ppm	2.2684 ppm	0.0187 ppm
Concentration per Run 3	0.0001 ppm	0.0048 ppm	0.0379 ppm	0.0117 ppm	20.1529 ppm	2.3347 ppm	0.0194 ppm
Concentration RSD	33.0 %	1.5 %	0.4 %	1.8 %	3.0 %	4.2 %	3.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.9528 ppm	0.1466 ppm	0.0015 ppm	0.5228 ppm	0.0129 ppm	0.0236 ppm	0.0002 ppm
Concentration per Run 1	3.9500 ppm	0.1415 ppm	0.0016 ppm	0.4993 ppm	0.0129 ppm	0.0243 ppm	-0.0004 ppm
Concentration per Run 2	3.9618 ppm	0.1487 ppm	0.0014 ppm	0.5268 ppm	0.0129 ppm	0.0231 ppm	0.0007 ppm
Concentration per Run 3	3.9466 ppm	0.1495 ppm	0.0016 ppm	0.5423 ppm	0.0129 ppm	0.0234 ppm	0.0002 ppm
Concentration RSD	0.2 %	3.0 %	6.3 %	4.2 %	0.1 %	2.7 %	328.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0003 ppm	1.2299 ppm	0.0022 ppm	0.0709 ppm	0.8340 ppm	-0.0013 ppm	0.0355 ppm
Concentration per Run 1	0.0003 ppm	1.2379 ppm	0.0022 ppm	0.0684 ppm	0.8344 ppm	-0.0020 ppm	0.0356 ppm
Concentration per Run 2	-0.0010 ppm	1.2262 ppm	0.0022 ppm	0.0717 ppm	0.8318 ppm	-0.0014 ppm	0.0353 ppm
Concentration per Run 3	-0.0001 ppm	1.2255 ppm	0.0021 ppm	0.0727 ppm	0.8359 ppm	-0.0006 ppm	0.0356 ppm
Concentration RSD	261.7 %	0.6 %	4.0 %	3.2 %	0.2 %	49.1 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0429 ppm	103.7956 %	103.4457 %	102.9357 %	98.7471 %	90.6211 %	99.2766 %
Concentration per Run 1	0.0429 ppm	105.3865 %	103.2868 %	103.0076 %	102.1741 %	90.7641 %	99.2068 %
Concentration per Run 2	0.0428 ppm	102.8788 %	103.2387 %	102.9195 %	97.4933 %	90.7686 %	99.4362 %
Concentration per Run 3	0.0431 ppm	103.1213 %	103.8115 %	102.8801 %	96.5739 %	90.3305 %	99.1868 %
Concentration RSD	0.4 %	1.3 %	0.3 %	0.1 %	3.0 %	0.3 %	0.1 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454222-05D2 WG1976470
Analysis started at: 9/27/2024 2:51:33 PM
Comments <Comment>
Rack: 1
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	8.0267 ppm	0.0073 ppm	0.0050 ppm	0.0302 ppm	0.0003 ppm	3.1627 ppm
Concentration per Run 1	-0.0003 ppm	7.7826 ppm	0.0066 ppm	0.0050 ppm	0.0292 ppm	0.0002 ppm	3.0505 ppm
Concentration per Run 2	-0.0002 ppm	8.1463 ppm	0.0078 ppm	0.0048 ppm	0.0307 ppm	0.0003 ppm	3.2251 ppm
Concentration per Run 3	-0.0004 ppm	8.1514 ppm	0.0074 ppm	0.0051 ppm	0.0306 ppm	0.0003 ppm	3.2124 ppm
Concentration RSD	51.2 %	2.6 %	8.7 %	3.5 %	2.7 %	5.6 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0063 ppm	0.0336 ppm	0.0129 ppm	21.0692 ppm	1.5113 ppm	0.0184 ppm
Concentration per Run 1	0.0001 ppm	0.0062 ppm	0.0336 ppm	0.0127 ppm	20.4183 ppm	1.4641 ppm	0.0176 ppm
Concentration per Run 2	0.0001 ppm	0.0064 ppm	0.0337 ppm	0.0130 ppm	21.4213 ppm	1.5238 ppm	0.0185 ppm
Concentration per Run 3	0.0001 ppm	0.0064 ppm	0.0333 ppm	0.0129 ppm	21.3679 ppm	1.5461 ppm	0.0190 ppm
Concentration RSD	7.0 %	1.4 %	0.6 %	1.1 %	2.7 %	2.8 %	3.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.5617 ppm	0.1357 ppm	0.0010 ppm	0.1890 ppm	0.0160 ppm	0.0138 ppm	-0.0001 ppm
Concentration per Run 1	3.5579 ppm	0.1310 ppm	0.0011 ppm	0.1851 ppm	0.0160 ppm	0.0137 ppm	-0.0008 ppm
Concentration per Run 2	3.5777 ppm	0.1384 ppm	0.0009 ppm	0.1916 ppm	0.0157 ppm	0.0140 ppm	0.0002 ppm
Concentration per Run 3	3.5496 ppm	0.1376 ppm	0.0010 ppm	0.1901 ppm	0.0162 ppm	0.0136 ppm	0.0003 ppm
Concentration RSD	0.4 %	3.0 %	7.0 %	1.8 %	1.8 %	1.6 %	504.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	0.9135 ppm	0.0020 ppm	0.0366 ppm	0.7065 ppm	-0.0009 ppm	0.0395 ppm
Concentration per Run 1	0.0003 ppm	0.9134 ppm	0.0014 ppm	0.0355 ppm	0.7044 ppm	-0.0008 ppm	0.0396 ppm
Concentration per Run 2	0.0006 ppm	0.9154 ppm	0.0015 ppm	0.0371 ppm	0.7111 ppm	-0.0007 ppm	0.0395 ppm
Concentration per Run 3	-0.0007 ppm	0.9119 ppm	0.0029 ppm	0.0372 ppm	0.7041 ppm	-0.0012 ppm	0.0395 ppm
Concentration RSD	1,188.7 %	0.2 %	43.1 %	2.6 %	0.6 %	32.3 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0450 ppm	103.0405 %	102.6236 %	102.0936 %	99.4508 %	91.2163 %	99.9662 %
Concentration per Run 1	0.0450 ppm	105.3490 %	102.6739 %	102.0885 %	103.3466 %	91.4724 %	100.3244 %
Concentration per Run 2	0.0451 ppm	101.6007 %	102.6844 %	102.4528 %	97.3253 %	91.1889 %	99.5287 %
Concentration per Run 3	0.0450 ppm	102.1717 %	102.5123 %	101.7394 %	97.6806 %	90.9876 %	100.0456 %
Concentration RSD	0.1 %	2.0 %	0.1 %	0.3 %	3.4 %	0.3 %	0.4 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454222-06D2 WG1976470
Analysis started at: 9/27/2024 2:57:49 PM
Comments <Comment>
Rack: 1
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	26.7715 ppm	0.0224 ppm	0.0128 ppm	0.2088 ppm	0.0010 ppm	105.5752 ppm
Concentration per Run 1	0.0001 ppm	25.8194 ppm	0.0226 ppm	0.0127 ppm	0.2011 ppm	0.0010 ppm	102.1521 ppm
Concentration per Run 2	0.0000 ppm	27.2444 ppm	0.0236 ppm	0.0130 ppm	0.2122 ppm	0.0010 ppm	107.5053 ppm
Concentration per Run 3	0.0002 ppm	27.2507 ppm	0.0210 ppm	0.0127 ppm	0.2132 ppm	0.0010 ppm	107.0681 ppm
Concentration RSD	111.7 %	3.1 %	5.9 %	1.4 %	3.2 %	2.5 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0007 ppm	0.0229 ppm	0.0794 ppm	0.1060 ppm	57.2247 ppm	4.2926 ppm	0.0367 ppm
Concentration per Run 1	0.0007 ppm	0.0229 ppm	0.0793 ppm	0.1058 ppm	55.2599 ppm	4.1642 ppm	0.0354 ppm
Concentration per Run 2	0.0007 ppm	0.0229 ppm	0.0796 ppm	0.1070 ppm	58.2855 ppm	4.3697 ppm	0.0372 ppm
Concentration per Run 3	0.0008 ppm	0.0228 ppm	0.0794 ppm	0.1051 ppm	58.1288 ppm	4.3437 ppm	0.0376 ppm
Concentration RSD	4.6 %	0.2 %	0.2 %	0.9 %	3.0 %	2.6 %	3.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	36.6845 ppm	0.7169 ppm	0.0026 ppm	1.7854 ppm	0.0742 ppm	0.2803 ppm	0.0001 ppm
Concentration per Run 1	36.7545 ppm	0.6928 ppm	0.0026 ppm	1.7257 ppm	0.0738 ppm	0.2810 ppm	0.0003 ppm
Concentration per Run 2	36.6311 ppm	0.7300 ppm	0.0026 ppm	1.8171 ppm	0.0742 ppm	0.2799 ppm	0.0002 ppm
Concentration per Run 3	36.6680 ppm	0.7278 ppm	0.0027 ppm	1.8133 ppm	0.0747 ppm	0.2800 ppm	-0.0002 ppm
Concentration RSD	0.2 %	2.9 %	0.7 %	2.9 %	0.6 %	0.2 %	305.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0002 ppm	1.9160 ppm	0.0069 ppm	0.2436 ppm	1.2162 ppm	-0.0001 ppm	0.1145 ppm
Concentration per Run 1	0.0000 ppm	1.9175 ppm	0.0076 ppm	0.2352 ppm	1.2221 ppm	-0.0007 ppm	0.1147 ppm
Concentration per Run 2	-0.0006 ppm	1.9114 ppm	0.0067 ppm	0.2472 ppm	1.2137 ppm	-0.0004 ppm	0.1144 ppm
Concentration per Run 3	0.0001 ppm	1.9192 ppm	0.0065 ppm	0.2485 ppm	1.2129 ppm	0.0008 ppm	0.1143 ppm
Concentration RSD	208.9 %	0.2 %	8.3 %	3.0 %	0.4 %	684.6 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.6247 ppm	105.4984 %	101.0481 %	99.9505 %	97.7048 %	78.5852 %	94.3205 %
Concentration per Run 1	0.6263 ppm	107.2752 %	101.1579 %	100.3494 %	101.4447 %	78.9129 %	94.1059 %
Concentration per Run 2	0.6228 ppm	104.6068 %	101.1651 %	99.4981 %	95.8310 %	78.4131 %	94.4885 %
Concentration per Run 3	0.6250 ppm	104.6132 %	100.8212 %	100.0039 %	95.8388 %	78.4294 %	94.3672 %
Concentration RSD	0.3 %	1.5 %	0.2 %	0.4 %	3.3 %	0.4 %	0.2 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454581-01D2 WG1976470
Analysis started at: 9/27/2024 3:04:00 PM
Comments <Comment>
Rack: 1
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	92.7912 ppm	0.0830 ppm	0.0080 ppm	0.2738 ppm	0.0028 ppm	44.9267 ppm
Concentration per Run 1	-0.0001 ppm	91.7155 ppm	0.0856 ppm	0.0078 ppm	0.2700 ppm	0.0028 ppm	44.4043 ppm
Concentration per Run 2	-0.0002 ppm	93.0515 ppm	0.0821 ppm	0.0082 ppm	0.2749 ppm	0.0029 ppm	45.1251 ppm
Concentration per Run 3	-0.0003 ppm	93.6065 ppm	0.0814 ppm	0.0079 ppm	0.2765 ppm	0.0029 ppm	45.2506 ppm
Concentration RSD	47.0 %	1.0 %	2.7 %	2.9 %	1.2 %	1.4 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0013 ppm	0.0850 ppm	0.2118 ppm	0.2545 ppm	187.8068 ppm	9.7085 ppm	0.1708 ppm
Concentration per Run 1	0.0014 ppm	0.0853 ppm	0.2128 ppm	0.2531 ppm	181.3189 ppm	9.6730 ppm	0.1698 ppm
Concentration per Run 2	0.0012 ppm	0.0848 ppm	0.2100 ppm	0.2550 ppm	191.3427 ppm	9.6599 ppm	0.1703 ppm
Concentration per Run 3	0.0013 ppm	0.0850 ppm	0.2125 ppm	0.2555 ppm	190.7589 ppm	9.7926 ppm	0.1724 ppm
Concentration RSD	10.2 %	0.3 %	0.7 %	0.5 %	3.0 %	0.8 %	0.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	38.1043 ppm	5.5653 ppm	0.0046 ppm	0.6494 ppm	0.2454 ppm	0.2418 ppm	-0.0051 ppm
Concentration per Run 1	38.0984 ppm	5.5070 ppm	0.0047 ppm	0.6436 ppm	0.2457 ppm	0.2421 ppm	-0.0047 ppm
Concentration per Run 2	38.0398 ppm	5.5818 ppm	0.0047 ppm	0.6464 ppm	0.2446 ppm	0.2412 ppm	-0.0059 ppm
Concentration per Run 3	38.1748 ppm	5.6071 ppm	0.0044 ppm	0.6583 ppm	0.2458 ppm	0.2420 ppm	-0.0047 ppm
Concentration RSD	0.2 %	0.9 %	3.2 %	1.2 %	0.3 %	0.2 %	12.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0035 ppm	2.5172 ppm	0.0038 ppm	0.3600 ppm	1.5746 ppm	-0.0008 ppm	0.1596 ppm
Concentration per Run 1	-0.0025 ppm	2.5177 ppm	0.0034 ppm	0.3557 ppm	1.5788 ppm	-0.0012 ppm	0.1606 ppm
Concentration per Run 2	-0.0039 ppm	2.5144 ppm	0.0043 ppm	0.3613 ppm	1.5667 ppm	-0.0022 ppm	0.1582 ppm
Concentration per Run 3	-0.0041 ppm	2.5195 ppm	0.0037 ppm	0.3629 ppm	1.5784 ppm	0.0009 ppm	0.1601 ppm
Concentration RSD	25.2 %	0.1 %	11.5 %	1.1 %	0.4 %	183.5 %	0.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4297 ppm	116.3905 %	112.2628 %	109.8760 %	99.7826 %	78.0593 %	97.0367 %
Concentration per Run 1	0.4307 ppm	116.6357 %	112.6233 %	109.6669 %	101.4002 %	77.9992 %	97.3816 %
Concentration per Run 2	0.4276 ppm	116.7179 %	111.9579 %	109.5995 %	99.4418 %	78.0285 %	97.1514 %
Concentration per Run 3	0.4308 ppm	115.8180 %	112.2071 %	110.3616 %	98.5059 %	78.1504 %	96.5770 %
Concentration RSD	0.4 %	0.4 %	0.3 %	0.4 %	1.5 %	0.1 %	0.4 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: CCV
Analysis started at: 9/27/2024 3:10:17 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4964 ppm	0.5109 ppm	0.4983 ppm	0.5050 ppm	0.5010 ppm	0.5081 ppm	0.5067 ppm
Concentration per Run 1	0.4965 ppm	0.4962 ppm	0.4960 ppm	0.5050 ppm	0.4833 ppm	0.4940 ppm	0.4938 ppm
Concentration per Run 2	0.4967 ppm	0.5202 ppm	0.4983 ppm	0.5042 ppm	0.5104 ppm	0.5164 ppm	0.5166 ppm
Concentration per Run 3	0.4961 ppm	0.5162 ppm	0.5004 ppm	0.5059 ppm	0.5093 ppm	0.5139 ppm	0.5096 ppm
Recovery Percentage 1	99.283 %	102.174 %	99.651 %	101.003 %	100.202 %	101.616 %	101.340 %
Concentration RSD	0.1 %	2.5 %	0.4 %	0.2 %	3.1 %	2.4 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5010 ppm	0.4834 ppm	0.4975 ppm	0.4846 ppm	0.5081 ppm	5.2240 ppm	0.4914 ppm
Concentration per Run 1	0.4979 ppm	0.4830 ppm	0.4997 ppm	0.4855 ppm	0.4944 ppm	4.9880 ppm	0.4660 ppm
Concentration per Run 2	0.5016 ppm	0.4822 ppm	0.4985 ppm	0.4854 ppm	0.5160 ppm	5.3940 ppm	0.5067 ppm
Concentration per Run 3	0.5035 ppm	0.4849 ppm	0.4943 ppm	0.4830 ppm	0.5138 ppm	5.2899 ppm	0.5014 ppm
Recovery Percentage 1	100.201 %	96.675 %	99.499 %	96.927 %	101.616 %	104.480 %	98.275 %
Concentration RSD	0.6 %	0.3 %	0.6 %	0.3 %	2.3 %	4.0 %	4.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5047 ppm	0.4965 ppm	0.5006 ppm	9.9546 ppm	0.4848 ppm	0.4885 ppm	0.4829 ppm
Concentration per Run 1	0.5041 ppm	0.4826 ppm	0.5008 ppm	9.4848 ppm	0.4835 ppm	0.4885 ppm	0.4828 ppm
Concentration per Run 2	0.5069 ppm	0.5039 ppm	0.4995 ppm	10.2754 ppm	0.4841 ppm	0.4870 ppm	0.4813 ppm
Concentration per Run 3	0.5031 ppm	0.5030 ppm	0.5016 ppm	10.1037 ppm	0.4867 ppm	0.4899 ppm	0.4846 ppm
Recovery Percentage 1	100.938 %	99.306 %	100.127 %	99.546 %	96.953 %	97.697 %	96.580 %
Concentration RSD	0.4 %	2.4 %	0.2 %	4.2 %	0.4 %	0.3 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5081 ppm	5.3266 ppm	0.4952 ppm	0.4825 ppm	0.5060 ppm	0.5029 ppm	0.4959 ppm
Concentration per Run 1	0.5088 ppm	5.3329 ppm	0.4949 ppm	0.4660 ppm	0.5087 ppm	0.5033 ppm	0.4974 ppm
Concentration per Run 2	0.5067 ppm	5.3099 ppm	0.4951 ppm	0.4911 ppm	0.5071 ppm	0.5006 ppm	0.4987 ppm
Concentration per Run 3	0.5088 ppm	5.3369 ppm	0.4957 ppm	0.4904 ppm	0.5022 ppm	0.5048 ppm	0.4915 ppm
Recovery Percentage 1	101.619 %	101.459 %	99.043 %	96.500 %	101.197 %	100.584 %	99.177 %
Concentration RSD	0.2 %	0.3 %	0.1 %	3.0 %	0.7 %	0.4 %	0.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4732 ppm	100.8403 %	99.1109 %	98.2036 %	97.8481 %	91.3875 %	98.4559 %
Concentration per Run 1	0.4696 ppm	101.8603 %	99.4040 %	98.1163 %	100.3545 %	91.3647 %	98.3517 %
Concentration per Run 2	0.4737 ppm	100.0125 %	99.0435 %	98.3333 %	96.0900 %	91.6110 %	98.1556 %
Concentration per Run 3	0.4762 ppm	100.6480 %	98.8853 %	98.1612 %	97.0998 %	91.1867 %	98.8603 %
Recovery Percentage 1	94.631 %						
Concentration RSD	0.7 %	0.9 %	0.3 %	0.1 %	2.3 %	0.2 %	0.4 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: CCB
Analysis started at: 9/27/2024 3:16:21 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0006 ppm	-0.0003 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 1	0.0001 ppm	-0.0021 ppm	-0.0002 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 2	0.0000 ppm	0.0012 ppm	-0.0010 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 3	0.0000 ppm	-0.0009 ppm	0.0004 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0016 ppm
Recovery Percentage 1	0.404 %	-0.601 %	-5.452 %	5.241 %	-0.095 %	-0.059 %	2.430 %
Concentration RSD	261.2 %	277.8 %	258.4 %	6.9 %	104.0 %	574.6 %	33.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0148 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0276 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0052 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0115 ppm	0.0003 ppm
Recovery Percentage 1	-0.350 %	0.056 %	0.398 %	-2.002 %	-0.068 %	0.591 %	0.767 %
Concentration RSD	124.1 %	1,212.1 %	70.9 %	26.2 %	1,146.3 %	78.3 %	259.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0010 ppm	0.0002 ppm	0.0003 ppm	0.0013 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 1	-0.0006 ppm	0.0002 ppm	0.0003 ppm	0.0018 ppm	0.0002 ppm	-0.0001 ppm	-0.0008 ppm
Concentration per Run 2	0.0007 ppm	0.0002 ppm	0.0004 ppm	0.0021 ppm	0.0002 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 3	0.0028 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0003 ppm
Recovery Percentage 1	0.968 %	2.380 %	0.569 %	0.065 %	0.097 %	-1.481 %	-0.197 %
Concentration RSD	173.6 %	19.1 %	35.3 %	87.1 %	961.6 %	47.4 %	628.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0004 ppm	0.0006 ppm	0.0006 ppm	0.0000 ppm	0.0002 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 3	-0.0006 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0001 ppm
Recovery Percentage 1	-0.355 %	0.084 %	0.483 %	-0.350 %	1.903 %	2.474 %	0.415 %
Concentration RSD	1,316.2 %	40.9 %	172.4 %	72.6 %	17.2 %	31.0 %	173.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	100.6646 %	99.7428 %	98.9862 %	98.0263 %	98.6178 %	98.1596 %
Concentration per Run 1	0.0001 ppm	102.0825 %	99.8120 %	99.1475 %	101.1523 %	98.3860 %	97.9343 %
Concentration per Run 2	0.0001 ppm	100.1873 %	99.6608 %	99.1062 %	97.2835 %	99.1034 %	98.3784 %
Concentration per Run 3	0.0002 ppm	99.7239 %	99.7556 %	98.7048 %	95.6430 %	98.3640 %	98.1661 %
Recovery Percentage 1	2.297 %						
Concentration RSD	35.8 %	1.2 %	0.1 %	0.2 %	2.9 %	0.4 %	0.2 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454206-01 WG1976262
Analysis started at: 9/27/2024 3:27:04 PM
Comments <Comment>
Rack: 1
Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0737 ppm	-0.0003 ppm	0.0519 ppm	0.0392 ppm	0.0000 ppm	27.3573 ppm
Concentration per Run 1	0.0000 ppm	0.0705 ppm	0.0005 ppm	0.0519 ppm	0.0384 ppm	0.0000 ppm	26.6762 ppm
Concentration per Run 2	0.0000 ppm	0.0771 ppm	-0.0016 ppm	0.0519 ppm	0.0395 ppm	0.0000 ppm	27.6640 ppm
Concentration per Run 3	0.0000 ppm	0.0734 ppm	0.0000 ppm	0.0520 ppm	0.0396 ppm	0.0000 ppm	27.7316 ppm
Concentration RSD	58.9 %	4.5 %	327.8 %	0.1 %	1.8 %	10.4 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0012 ppm	0.2177 ppm	3.8486 ppm	0.0008 ppm
Concentration per Run 1	-0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0011 ppm	0.2134 ppm	3.7869 ppm	0.0008 ppm
Concentration per Run 2	-0.0003 ppm	0.0001 ppm	0.0001 ppm	0.0013 ppm	0.2195 ppm	3.9074 ppm	0.0008 ppm
Concentration per Run 3	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0013 ppm	0.2202 ppm	3.8516 ppm	0.0008 ppm
Concentration RSD	21.0 %	308.2 %	140.5 %	11.8 %	1.7 %	1.6 %	5.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.5832 ppm	0.0705 ppm	0.0012 ppm	22.3223 ppm	0.0003 ppm	-0.0012 ppm	0.0003 ppm
Concentration per Run 1	5.5602 ppm	0.0686 ppm	0.0012 ppm	21.9812 ppm	0.0004 ppm	-0.0009 ppm	0.0004 ppm
Concentration per Run 2	5.6021 ppm	0.0715 ppm	0.0012 ppm	22.6838 ppm	0.0002 ppm	-0.0018 ppm	0.0006 ppm
Concentration per Run 3	5.5874 ppm	0.0715 ppm	0.0012 ppm	22.3020 ppm	0.0002 ppm	-0.0009 ppm	-0.0001 ppm
Concentration RSD	0.4 %	2.4 %	1.8 %	1.6 %	35.9 %	43.8 %	134.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0002 ppm	3.3321 ppm	-0.0001 ppm	0.1184 ppm	0.0025 ppm	-0.0007 ppm	0.0012 ppm
Concentration per Run 1	0.0002 ppm	3.3206 ppm	0.0003 ppm	0.1162 ppm	0.0025 ppm	-0.0012 ppm	0.0012 ppm
Concentration per Run 2	-0.0007 ppm	3.3352 ppm	0.0000 ppm	0.1193 ppm	0.0024 ppm	0.0001 ppm	0.0011 ppm
Concentration per Run 3	0.0000 ppm	3.3406 ppm	-0.0006 ppm	0.1198 ppm	0.0026 ppm	-0.0009 ppm	0.0012 ppm
Concentration RSD	308.4 %	0.3 %	450.1 %	1.7 %	3.4 %	96.7 %	7.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0017 ppm	100.6455 %	96.2519 %	94.4535 %	99.0368 %	88.2924 %	95.6318 %
Concentration per Run 1	0.0017 ppm	102.4739 %	96.2482 %	95.1787 %	102.0014 %	89.0458 %	95.5316 %
Concentration per Run 2	0.0017 ppm	99.5525 %	96.3637 %	94.0208 %	97.6226 %	87.7526 %	95.4925 %
Concentration per Run 3	0.0016 ppm	99.9102 %	96.1438 %	94.1610 %	97.4863 %	88.0788 %	95.8713 %
Concentration RSD	3.8 %	1.6 %	0.1 %	0.7 %	2.6 %	0.8 %	0.2 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454206-02 WG1976262
Analysis started at: 9/27/2024 3:33:24 PM
Comments <Comment>
Rack: 1
Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0827 ppm	-0.0005 ppm	0.0518 ppm	0.0392 ppm	0.0000 ppm	27.5223 ppm
Concentration per Run 1	0.0003 ppm	0.0854 ppm	-0.0009 ppm	0.0520 ppm	0.0384 ppm	0.0000 ppm	27.1744 ppm
Concentration per Run 2	0.0001 ppm	0.0819 ppm	0.0002 ppm	0.0515 ppm	0.0394 ppm	0.0000 ppm	27.7862 ppm
Concentration per Run 3	0.0003 ppm	0.0808 ppm	-0.0008 ppm	0.0519 ppm	0.0397 ppm	0.0000 ppm	27.6064 ppm
Concentration RSD	66.4 %	2.9 %	113.7 %	0.5 %	1.8 %	179.3 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0025 ppm	0.2307 ppm	3.8462 ppm	0.0014 ppm
Concentration per Run 1	-0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0026 ppm	0.2275 ppm	3.7848 ppm	0.0014 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0026 ppm	0.2329 ppm	3.8499 ppm	0.0012 ppm
Concentration per Run 3	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0024 ppm	0.2315 ppm	3.9041 ppm	0.0015 ppm
Concentration RSD	31.3 %	343.6 %	140.9 %	3.1 %	1.2 %	1.6 %	10.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.6511 ppm	0.0683 ppm	0.0012 ppm	22.4800 ppm	0.0002 ppm	-0.0013 ppm	0.0004 ppm
Concentration per Run 1	5.6674 ppm	0.0670 ppm	0.0012 ppm	22.0412 ppm	0.0001 ppm	-0.0017 ppm	0.0000 ppm
Concentration per Run 2	5.6526 ppm	0.0689 ppm	0.0012 ppm	22.5603 ppm	0.0003 ppm	-0.0007 ppm	0.0006 ppm
Concentration per Run 3	5.6334 ppm	0.0690 ppm	0.0012 ppm	22.8384 ppm	0.0002 ppm	-0.0015 ppm	0.0005 ppm
Concentration RSD	0.3 %	1.7 %	1.3 %	1.8 %	42.7 %	39.5 %	90.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	3.3074 ppm	-0.0002 ppm	0.1204 ppm	0.0030 ppm	-0.0007 ppm	0.0011 ppm
Concentration per Run 1	0.0004 ppm	3.2984 ppm	-0.0004 ppm	0.1178 ppm	0.0032 ppm	-0.0009 ppm	0.0010 ppm
Concentration per Run 2	0.0013 ppm	3.3009 ppm	-0.0003 ppm	0.1214 ppm	0.0027 ppm	-0.0009 ppm	0.0010 ppm
Concentration per Run 3	-0.0015 ppm	3.3229 ppm	-0.0001 ppm	0.1221 ppm	0.0030 ppm	-0.0002 ppm	0.0013 ppm
Concentration RSD	2,158.2 %	0.4 %	62.0 %	1.9 %	8.1 %	63.2 %	16.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0019 ppm	100.4315 %	96.3134 %	94.0304 %	98.8102 %	87.3308 %	95.3178 %
Concentration per Run 1	0.0018 ppm	100.9752 %	96.3907 %	93.9568 %	100.7249 %	87.5117 %	95.6245 %
Concentration per Run 2	0.0020 ppm	100.2531 %	96.2117 %	94.5237 %	97.8018 %	87.8034 %	94.9730 %
Concentration per Run 3	0.0018 ppm	100.0662 %	96.3378 %	93.6106 %	97.9038 %	86.6773 %	95.3560 %
Concentration RSD	6.3 %	0.5 %	0.1 %	0.5 %	1.7 %	0.7 %	0.3 %

ICP DataTrace 4

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LabBook: WG1977137_09272024T4.imexp

Sample: L2454206-03 WG1976262
Analysis started at: 9/27/2024 3:39:44 PM
Comments <Comment>
Rack: 1
Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0932 ppm	-0.0008 ppm	0.0542 ppm	0.0414 ppm	0.0000 ppm	28.8801 ppm
Concentration per Run 1	0.0001 ppm	0.0873 ppm	-0.0012 ppm	0.0542 ppm	0.0405 ppm	0.0000 ppm	28.4415 ppm
Concentration per Run 2	0.0002 ppm	0.0946 ppm	-0.0001 ppm	0.0542 ppm	0.0418 ppm	0.0000 ppm	28.8886 ppm
Concentration per Run 3	0.0000 ppm	0.0976 ppm	-0.0010 ppm	0.0542 ppm	0.0421 ppm	0.0000 ppm	29.3103 ppm
Concentration RSD	86.1 %	5.7 %	78.2 %	0.0 %	2.1 %	18,399.6 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	-0.0001 ppm	0.0002 ppm	0.0014 ppm	0.2435 ppm	4.1372 ppm	0.0012 ppm
Concentration per Run 1	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0014 ppm	0.2370 ppm	4.0775 ppm	0.0011 ppm
Concentration per Run 2	-0.0002 ppm	-0.0001 ppm	0.0005 ppm	0.0015 ppm	0.2445 ppm	4.1674 ppm	0.0014 ppm
Concentration per Run 3	-0.0002 ppm	-0.0001 ppm	-0.0001 ppm	0.0013 ppm	0.2489 ppm	4.1666 ppm	0.0010 ppm
Concentration RSD	9.2 %	208.4 %	173.4 %	7.2 %	2.5 %	1.2 %	18.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.9631 ppm	0.0651 ppm	0.0012 ppm	24.3629 ppm	0.0000 ppm	-0.0013 ppm	0.0003 ppm
Concentration per Run 1	5.9655 ppm	0.0641 ppm	0.0012 ppm	23.9413 ppm	0.0000 ppm	-0.0011 ppm	0.0001 ppm
Concentration per Run 2	5.9538 ppm	0.0653 ppm	0.0012 ppm	24.6422 ppm	0.0003 ppm	-0.0013 ppm	0.0010 ppm
Concentration per Run 3	5.9699 ppm	0.0660 ppm	0.0011 ppm	24.5052 ppm	-0.0002 ppm	-0.0015 ppm	-0.0002 ppm
Concentration RSD	0.1 %	1.5 %	8.3 %	1.5 %	683.9 %	17.9 %	209.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0003 ppm	3.3272 ppm	-0.0003 ppm	0.1300 ppm	0.0033 ppm	-0.0004 ppm	0.0012 ppm
Concentration per Run 1	0.0008 ppm	3.3375 ppm	-0.0003 ppm	0.1271 ppm	0.0031 ppm	-0.0007 ppm	0.0013 ppm
Concentration per Run 2	0.0007 ppm	3.3228 ppm	0.0000 ppm	0.1311 ppm	0.0035 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 3	-0.0006 ppm	3.3214 ppm	-0.0006 ppm	0.1320 ppm	0.0033 ppm	-0.0005 ppm	0.0013 ppm
Concentration RSD	261.8 %	0.3 %	94.4 %	2.0 %	6.5 %	89.2 %	7.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0018 ppm	101.8454 %	95.7475 %	92.1516 %	98.8579 %	85.8183 %	93.3916 %
Concentration per Run 1	0.0019 ppm	102.5759 %	95.6044 %	92.2884 %	100.8911 %	85.5275 %	93.0949 %
Concentration per Run 2	0.0017 ppm	102.1321 %	95.7956 %	92.2505 %	98.8426 %	85.9872 %	93.5324 %
Concentration per Run 3	0.0017 ppm	100.8281 %	95.8425 %	91.9157 %	96.8401 %	85.9402 %	93.5475 %
Concentration RSD	5.8 %	0.9 %	0.1 %	0.2 %	2.0 %	0.3 %	0.3 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454206-04 WG1976262
Analysis started at: 9/27/2024 3:46:02 PM
Comments <Comment>
Rack: 1
Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0728 ppm	0.0003 ppm	0.0532 ppm	0.0415 ppm	0.0000 ppm	28.8192 ppm
Concentration per Run 1	0.0001 ppm	0.0755 ppm	0.0008 ppm	0.0531 ppm	0.0418 ppm	0.0000 ppm	29.1438 ppm
Concentration per Run 2	0.0003 ppm	0.0698 ppm	0.0006 ppm	0.0532 ppm	0.0414 ppm	0.0000 ppm	28.5977 ppm
Concentration per Run 3	0.0003 ppm	0.0731 ppm	-0.0006 ppm	0.0534 ppm	0.0413 ppm	0.0000 ppm	28.7161 ppm
Concentration RSD	64.2 %	3.9 %	281.1 %	0.3 %	0.7 %	38.3 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	-0.0001 ppm	-0.0002 ppm	0.0015 ppm	0.2131 ppm	4.0531 ppm	0.0009 ppm
Concentration per Run 1	-0.0002 ppm	-0.0001 ppm	-0.0001 ppm	0.0014 ppm	0.2139 ppm	4.0525 ppm	0.0010 ppm
Concentration per Run 2	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0016 ppm	0.2119 ppm	4.0421 ppm	0.0003 ppm
Concentration per Run 3	-0.0002 ppm	-0.0002 ppm	-0.0003 ppm	0.0014 ppm	0.2135 ppm	4.0646 ppm	0.0014 ppm
Concentration RSD	5.3 %	138.8 %	47.6 %	8.2 %	0.5 %	0.3 %	57.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.8325 ppm	0.0665 ppm	0.0012 ppm	24.2268 ppm	0.0003 ppm	-0.0013 ppm	0.0004 ppm
Concentration per Run 1	5.8374 ppm	0.0666 ppm	0.0012 ppm	24.3535 ppm	0.0001 ppm	-0.0011 ppm	0.0001 ppm
Concentration per Run 2	5.8417 ppm	0.0662 ppm	0.0009 ppm	24.0763 ppm	0.0006 ppm	-0.0016 ppm	0.0007 ppm
Concentration per Run 3	5.8183 ppm	0.0665 ppm	0.0013 ppm	24.2507 ppm	0.0002 ppm	-0.0010 ppm	0.0003 ppm
Concentration RSD	0.2 %	0.3 %	16.9 %	0.6 %	91.3 %	25.8 %	73.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	3.2664 ppm	-0.0002 ppm	0.1306 ppm	0.0021 ppm	-0.0006 ppm	0.0012 ppm
Concentration per Run 1	-0.0003 ppm	3.2629 ppm	-0.0001 ppm	0.1317 ppm	0.0020 ppm	-0.0009 ppm	0.0011 ppm
Concentration per Run 2	0.0007 ppm	3.2790 ppm	-0.0003 ppm	0.1297 ppm	0.0026 ppm	-0.0001 ppm	0.0012 ppm
Concentration per Run 3	0.0017 ppm	3.2573 ppm	-0.0001 ppm	0.1306 ppm	0.0019 ppm	-0.0008 ppm	0.0012 ppm
Concentration RSD	135.9 %	0.3 %	75.3 %	0.8 %	17.4 %	79.6 %	2.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0018 ppm	101.9592 %	95.9454 %	93.9446 %	97.0601 %	87.2865 %	94.3028 %
Concentration per Run 1	0.0018 ppm	101.0665 %	95.8654 %	94.2797 %	96.6813 %	87.6819 %	94.2489 %
Concentration per Run 2	0.0018 ppm	102.3831 %	96.0134 %	93.8228 %	97.4806 %	86.7238 %	94.1229 %
Concentration per Run 3	0.0019 ppm	102.4279 %	95.9575 %	93.7313 %	97.0183 %	87.4538 %	94.5367 %
Concentration RSD	3.9 %	0.8 %	0.1 %	0.3 %	0.4 %	0.6 %	0.2 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454206-06 WG1976262
Analysis started at: 9/27/2024 3:52:21 PM
Comments <Comment>
Rack: 1
Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0885 ppm	-0.0004 ppm	0.0519 ppm	0.0405 ppm	0.0000 ppm	28.6967 ppm
Concentration per Run 1	0.0001 ppm	0.0798 ppm	-0.0001 ppm	0.0517 ppm	0.0390 ppm	0.0000 ppm	27.7143 ppm
Concentration per Run 2	0.0003 ppm	0.1009 ppm	0.0001 ppm	0.0521 ppm	0.0420 ppm	0.0000 ppm	29.4816 ppm
Concentration per Run 3	0.0005 ppm	0.0848 ppm	-0.0013 ppm	0.0520 ppm	0.0404 ppm	-0.0001 ppm	28.8943 ppm
Concentration RSD	59.1 %	12.4 %	183.9 %	0.4 %	3.8 %	36.1 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0015 ppm	0.2391 ppm	3.9281 ppm	0.0014 ppm
Concentration per Run 1	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0015 ppm	0.2277 ppm	3.8135 ppm	0.0010 ppm
Concentration per Run 2	-0.0002 ppm	0.0002 ppm	-0.0001 ppm	0.0015 ppm	0.2487 ppm	4.1095 ppm	0.0015 ppm
Concentration per Run 3	-0.0002 ppm	-0.0001 ppm	0.0003 ppm	0.0016 ppm	0.2408 ppm	3.8611 ppm	0.0017 ppm
Concentration RSD	15.0 %	883.2 %	123.9 %	3.1 %	4.4 %	4.0 %	25.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.8718 ppm	0.0672 ppm	0.0011 ppm	23.0751 ppm	0.0003 ppm	-0.0012 ppm	0.0006 ppm
Concentration per Run 1	5.8801 ppm	0.0645 ppm	0.0012 ppm	22.3769 ppm	0.0002 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 2	5.8774 ppm	0.0692 ppm	0.0012 ppm	24.2522 ppm	0.0007 ppm	-0.0011 ppm	0.0009 ppm
Concentration per Run 3	5.8578 ppm	0.0677 ppm	0.0011 ppm	22.5962 ppm	0.0001 ppm	-0.0015 ppm	0.0010 ppm
Concentration RSD	0.2 %	3.6 %	6.3 %	4.4 %	95.7 %	24.5 %	75.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	3.2064 ppm	-0.0002 ppm	0.1256 ppm	0.0034 ppm	-0.0002 ppm	0.0011 ppm
Concentration per Run 1	-0.0011 ppm	3.2004 ppm	-0.0005 ppm	0.1212 ppm	0.0036 ppm	-0.0004 ppm	0.0010 ppm
Concentration per Run 2	-0.0002 ppm	3.2122 ppm	0.0001 ppm	0.1301 ppm	0.0033 ppm	-0.0007 ppm	0.0013 ppm
Concentration per Run 3	0.0012 ppm	3.2065 ppm	-0.0002 ppm	0.1254 ppm	0.0035 ppm	0.0004 ppm	0.0010 ppm
Concentration RSD	3,096.8 %	0.2 %	162.5 %	3.5 %	3.9 %	245.2 %	16.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0017 ppm	99.7838 %	96.1648 %	93.7012 %	97.6988 %	87.6892 %	95.0017 %
Concentration per Run 1	0.0017 ppm	102.2075 %	95.8490 %	93.8796 %	101.3573 %	87.8861 %	95.1721 %
Concentration per Run 2	0.0017 ppm	98.2317 %	96.2318 %	93.4052 %	95.0649 %	87.5343 %	94.8507 %
Concentration per Run 3	0.0017 ppm	98.9122 %	96.4135 %	93.8188 %	96.6742 %	87.6472 %	94.9822 %
Concentration RSD	1.0 %	2.1 %	0.3 %	0.3 %	3.3 %	0.2 %	0.2 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454206-09 WG1976262
Analysis started at: 9/27/2024 3:58:39 PM
Comments <Comment>
Rack: 1
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	3.4580 ppm	-0.0015 ppm	0.1064 ppm	0.0269 ppm	0.0026 ppm	18.1416 ppm
Concentration per Run 1	0.0003 ppm	3.3878 ppm	-0.0017 ppm	0.1066 ppm	0.0262 ppm	0.0026 ppm	17.8812 ppm
Concentration per Run 2	0.0001 ppm	3.4377 ppm	-0.0014 ppm	0.1068 ppm	0.0268 ppm	0.0026 ppm	17.9470 ppm
Concentration per Run 3	0.0002 ppm	3.5484 ppm	-0.0013 ppm	0.1059 ppm	0.0278 ppm	0.0027 ppm	18.5968 ppm
Concentration RSD	43.6 %	2.4 %	11.9 %	0.4 %	2.9 %	1.8 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0010 ppm	0.0252 ppm	0.0003 ppm	0.0128 ppm	0.3519 ppm	3.7893 ppm	0.0232 ppm
Concentration per Run 1	0.0010 ppm	0.0252 ppm	0.0003 ppm	0.0131 ppm	0.3457 ppm	3.7128 ppm	0.0227 ppm
Concentration per Run 2	0.0010 ppm	0.0252 ppm	0.0003 ppm	0.0128 ppm	0.3488 ppm	3.8039 ppm	0.0232 ppm
Concentration per Run 3	0.0010 ppm	0.0251 ppm	0.0004 ppm	0.0126 ppm	0.3611 ppm	3.8510 ppm	0.0235 ppm
Concentration RSD	1.4 %	0.2 %	28.1 %	2.1 %	2.3 %	1.9 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	8.2957 ppm	0.9497 ppm	0.0001 ppm	24.0828 ppm	0.0361 ppm	-0.0016 ppm	-0.0003 ppm
Concentration per Run 1	8.4016 ppm	0.9343 ppm	0.0001 ppm	23.5070 ppm	0.0359 ppm	-0.0011 ppm	-0.0008 ppm
Concentration per Run 2	8.3487 ppm	0.9387 ppm	0.0001 ppm	24.1824 ppm	0.0364 ppm	-0.0020 ppm	0.0005 ppm
Concentration per Run 3	8.1369 ppm	0.9761 ppm	0.0000 ppm	24.5589 ppm	0.0359 ppm	-0.0017 ppm	-0.0006 ppm
Concentration RSD	1.7 %	2.4 %	49.8 %	2.2 %	0.9 %	27.6 %	249.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0009 ppm	11.3949 ppm	-0.0002 ppm	0.2329 ppm	0.0001 ppm	-0.0005 ppm	0.0008 ppm
Concentration per Run 1	0.0007 ppm	11.4421 ppm	-0.0001 ppm	0.2278 ppm	0.0001 ppm	-0.0008 ppm	0.0009 ppm
Concentration per Run 2	0.0014 ppm	11.3787 ppm	-0.0004 ppm	0.2309 ppm	-0.0001 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 3	0.0007 ppm	11.3639 ppm	-0.0002 ppm	0.2401 ppm	0.0002 ppm	-0.0009 ppm	0.0007 ppm
Concentration RSD	40.2 %	0.4 %	55.5 %	2.7 %	166.3 %	113.4 %	19.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1089 ppm	104.7185 %	98.7289 %	99.3579 %	100.1865 %	88.3909 %	94.0755 %
Concentration per Run 1	0.1093 ppm	105.2665 %	97.4324 %	99.4367 %	102.1985 %	88.0669 %	92.5145 %
Concentration per Run 2	0.1087 ppm	105.4729 %	98.2645 %	99.2440 %	100.8223 %	88.6022 %	93.7846 %
Concentration per Run 3	0.1089 ppm	103.4161 %	100.4897 %	99.3929 %	97.5386 %	88.5037 %	95.9274 %
Concentration RSD	0.3 %	1.1 %	1.6 %	0.1 %	2.4 %	0.3 %	1.8 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: WG1976262-7 WG1976262
Analysis started at: 9/27/2024 4:04:54 PM
Comments <Comment>
Rack: 1
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0530 ppm	5.6662 ppm	0.1228 ppm	1.1024 ppm	2.1008 ppm	0.0540 ppm	28.4508 ppm
Concentration per Run 1	0.0526 ppm	5.5167 ppm	0.1231 ppm	1.1009 ppm	2.0473 ppm	0.0528 ppm	27.8873 ppm
Concentration per Run 2	0.0531 ppm	5.7607 ppm	0.1223 ppm	1.1067 ppm	2.0554 ppm	0.0544 ppm	28.5151 ppm
Concentration per Run 3	0.0533 ppm	5.7212 ppm	0.1230 ppm	1.0998 ppm	2.1998 ppm	0.0549 ppm	28.9501 ppm
Concentration RSD	0.8 %	2.3 %	0.3 %	0.3 %	4.1 %	2.0 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0539 ppm	0.5234 ppm	0.2026 ppm	0.2752 ppm	1.3911 ppm	14.9580 ppm	0.0235 ppm
Concentration per Run 1	0.0540 ppm	0.5249 ppm	0.2042 ppm	0.2734 ppm	1.3607 ppm	14.4164 ppm	0.0227 ppm
Concentration per Run 2	0.0539 ppm	0.5230 ppm	0.2018 ppm	0.2758 ppm	1.3948 ppm	15.4697 ppm	0.0242 ppm
Concentration per Run 3	0.0539 ppm	0.5222 ppm	0.2019 ppm	0.2766 ppm	1.4178 ppm	14.9879 ppm	0.0236 ppm
Concentration RSD	0.1 %	0.3 %	0.7 %	0.6 %	2.1 %	3.5 %	3.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	18.4755 ppm	1.4701 ppm	0.9717 ppm	35.8656 ppm	0.5356 ppm	0.5312 ppm	0.5213 ppm
Concentration per Run 1	18.4187 ppm	1.4408 ppm	0.9695 ppm	34.5569 ppm	0.5358 ppm	0.5320 ppm	0.5228 ppm
Concentration per Run 2	18.5746 ppm	1.4742 ppm	0.9750 ppm	37.0992 ppm	0.5341 ppm	0.5313 ppm	0.5203 ppm
Concentration per Run 3	18.4333 ppm	1.4955 ppm	0.9705 ppm	35.9408 ppm	0.5370 ppm	0.5304 ppm	0.5208 ppm
Concentration RSD	0.5 %	1.9 %	0.3 %	3.5 %	0.3 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1256 ppm	12.6367 ppm	0.9597 ppm	1.2236 ppm	1.0327 ppm	0.1202 ppm	0.5159 ppm
Concentration per Run 1	0.1235 ppm	12.6689 ppm	0.9579 ppm	1.1956 ppm	1.0384 ppm	0.1203 ppm	0.5174 ppm
Concentration per Run 2	0.1272 ppm	12.6392 ppm	0.9612 ppm	1.2375 ppm	1.0306 ppm	0.1204 ppm	0.5149 ppm
Concentration per Run 3	0.1261 ppm	12.6021 ppm	0.9601 ppm	1.2377 ppm	1.0289 ppm	0.1198 ppm	0.5155 ppm
Concentration RSD	1.5 %	0.3 %	0.2 %	2.0 %	0.5 %	0.3 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.6037 ppm	103.3436 %	98.5792 %	96.9701 %	98.2685 %	84.6980 %	94.2701 %
Concentration per Run 1	0.6047 ppm	103.4473 %	98.6123 %	97.1476 %	100.5118 %	84.6227 %	94.0967 %
Concentration per Run 2	0.6007 ppm	104.4239 %	98.6520 %	96.5533 %	98.4091 %	84.6982 %	94.6135 %
Concentration per Run 3	0.6056 ppm	102.1596 %	98.4733 %	97.2094 %	95.8846 %	84.7732 %	94.1002 %
Concentration RSD	0.4 %	1.1 %	0.1 %	0.4 %	2.4 %	0.1 %	0.3 %

ICP DataTrace 4

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LabBook: WG1977137_09272024T4.imexp

Sample: WG1976262-8 WG1976262
Analysis started at: 9/27/2024 4:11:05 PM
Comments <Comment>
Rack: 1
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0540 ppm	5.7212 ppm	0.1250 ppm	1.1219 ppm	2.0827 ppm	0.0540 ppm	28.6159 ppm
Concentration per Run 1	0.0536 ppm	5.5840 ppm	0.1231 ppm	1.1176 ppm	2.0698 ppm	0.0531 ppm	28.2404 ppm
Concentration per Run 2	0.0543 ppm	5.7320 ppm	0.1260 ppm	1.1295 ppm	2.0599 ppm	0.0542 ppm	28.5910 ppm
Concentration per Run 3	0.0540 ppm	5.8475 ppm	0.1259 ppm	1.1187 ppm	2.1185 ppm	0.0547 ppm	29.0164 ppm
Concentration RSD	0.6 %	2.3 %	1.3 %	0.6 %	1.5 %	1.5 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0542 ppm	0.5263 ppm	0.2023 ppm	0.2791 ppm	1.3936 ppm	15.1660 ppm	0.0242 ppm
Concentration per Run 1	0.0544 ppm	0.5275 ppm	0.2022 ppm	0.2788 ppm	1.3757 ppm	14.5561 ppm	0.0232 ppm
Concentration per Run 2	0.0545 ppm	0.5284 ppm	0.2028 ppm	0.2797 ppm	1.3926 ppm	15.2216 ppm	0.0241 ppm
Concentration per Run 3	0.0538 ppm	0.5231 ppm	0.2020 ppm	0.2789 ppm	1.4126 ppm	15.7204 ppm	0.0253 ppm
Concentration RSD	0.7 %	0.5 %	0.2 %	0.2 %	1.3 %	3.9 %	4.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	18.7639 ppm	1.4784 ppm	0.9839 ppm	36.3809 ppm	0.5360 ppm	0.5339 ppm	0.5283 ppm
Concentration per Run 1	18.7008 ppm	1.4578 ppm	0.9789 ppm	34.8668 ppm	0.5366 ppm	0.5333 ppm	0.5277 ppm
Concentration per Run 2	18.8680 ppm	1.4805 ppm	0.9912 ppm	36.5605 ppm	0.5378 ppm	0.5368 ppm	0.5304 ppm
Concentration per Run 3	18.7228 ppm	1.4971 ppm	0.9814 ppm	37.7153 ppm	0.5335 ppm	0.5318 ppm	0.5269 ppm
Concentration RSD	0.5 %	1.3 %	0.7 %	3.9 %	0.4 %	0.5 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1258 ppm	12.8399 ppm	0.9702 ppm	1.2343 ppm	1.0361 ppm	0.1205 ppm	0.5180 ppm
Concentration per Run 1	0.1250 ppm	12.8175 ppm	0.9692 ppm	1.2042 ppm	1.0377 ppm	0.1202 ppm	0.5179 ppm
Concentration per Run 2	0.1264 ppm	12.8927 ppm	0.9768 ppm	1.2401 ppm	1.0373 ppm	0.1215 ppm	0.5195 ppm
Concentration per Run 3	0.1260 ppm	12.8096 ppm	0.9646 ppm	1.2584 ppm	1.0333 ppm	0.1199 ppm	0.5166 ppm
Concentration RSD	0.6 %	0.4 %	0.6 %	2.2 %	0.2 %	0.7 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.6028 ppm	104.3251 %	98.6459 %	96.1103 %	99.5303 %	84.3232 %	94.0725 %
Concentration per Run 1	0.6060 ppm	104.5282 %	98.6615 %	96.3554 %	101.1342 %	84.2884 %	94.1074 %
Concentration per Run 2	0.6058 ppm	104.5727 %	98.5924 %	95.6463 %	99.7618 %	84.1167 %	93.8715 %
Concentration per Run 3	0.5965 ppm	103.8745 %	98.6839 %	96.3292 %	97.6948 %	84.5644 %	94.2388 %
Concentration RSD	0.9 %	0.4 %	0.0 %	0.4 %	1.7 %	0.3 %	0.2 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: WG1976262-9 WG1976262
Analysis started at: 9/27/2024 4:17:15 PM
Comments <Comment>
Rack: 1
Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0508 ppm	5.3977 ppm	0.1201 ppm	1.0747 ppm	2.0017 ppm	0.0516 ppm	27.2238 ppm
Concentration per Run 1	0.0508 ppm	5.3299 ppm	0.1177 ppm	1.0720 ppm	2.0116 ppm	0.0512 ppm	26.9913 ppm
Concentration per Run 2	0.0508 ppm	5.5854 ppm	0.1217 ppm	1.0804 ppm	2.0650 ppm	0.0531 ppm	28.0733 ppm
Concentration per Run 3	0.0508 ppm	5.2777 ppm	0.1210 ppm	1.0716 ppm	1.9286 ppm	0.0506 ppm	26.6069 ppm
Concentration RSD	0.0 %	3.1 %	1.7 %	0.5 %	3.4 %	2.6 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0513 ppm	0.5012 ppm	0.1926 ppm	0.2637 ppm	1.3289 ppm	14.3050 ppm	0.0222 ppm
Concentration per Run 1	0.0513 ppm	0.4992 ppm	0.1921 ppm	0.2615 ppm	1.3128 ppm	14.1375 ppm	0.0219 ppm
Concentration per Run 2	0.0515 ppm	0.5009 ppm	0.1923 ppm	0.2645 ppm	1.3701 ppm	14.7082 ppm	0.0228 ppm
Concentration per Run 3	0.0512 ppm	0.5034 ppm	0.1933 ppm	0.2651 ppm	1.3037 ppm	14.0692 ppm	0.0219 ppm
Concentration RSD	0.3 %	0.4 %	0.4 %	0.7 %	2.7 %	2.5 %	2.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	17.7966 ppm	1.4033 ppm	0.9557 ppm	34.1201 ppm	0.5124 ppm	0.5125 ppm	0.4960 ppm
Concentration per Run 1	17.8091 ppm	1.3845 ppm	0.9538 ppm	33.7301 ppm	0.5111 ppm	0.5105 ppm	0.4943 ppm
Concentration per Run 2	17.7514 ppm	1.4446 ppm	0.9563 ppm	35.1910 ppm	0.5123 ppm	0.5132 ppm	0.4972 ppm
Concentration per Run 3	17.8293 ppm	1.3807 ppm	0.9571 ppm	33.4393 ppm	0.5140 ppm	0.5139 ppm	0.4964 ppm
Concentration RSD	0.2 %	2.6 %	0.2 %	2.8 %	0.3 %	0.3 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1225 ppm	11.8903 ppm	0.9514 ppm	1.1841 ppm	0.9999 ppm	0.1160 ppm	0.4925 ppm
Concentration per Run 1	0.1229 ppm	11.8681 ppm	0.9507 ppm	1.1678 ppm	0.9978 ppm	0.1153 ppm	0.4913 ppm
Concentration per Run 2	0.1240 ppm	11.8923 ppm	0.9531 ppm	1.2244 ppm	1.0013 ppm	0.1154 ppm	0.4927 ppm
Concentration per Run 3	0.1204 ppm	11.9106 ppm	0.9503 ppm	1.1601 ppm	1.0006 ppm	0.1172 ppm	0.4936 ppm
Concentration RSD	1.5 %	0.2 %	0.2 %	3.0 %	0.2 %	0.9 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5790 ppm	104.3588 %	98.8411 %	96.8440 %	99.3006 %	84.8727 %	94.5797 %
Concentration per Run 1	0.5757 ppm	104.5720 %	98.9974 %	97.0856 %	100.9356 %	85.1274 %	95.2721 %
Concentration per Run 2	0.5802 ppm	102.5175 %	98.8939 %	96.5594 %	96.2547 %	84.9059 %	94.2798 %
Concentration per Run 3	0.5810 ppm	105.9868 %	98.6322 %	96.8868 %	100.7115 %	84.5848 %	94.1871 %
Concentration RSD	0.5 %	1.7 %	0.2 %	0.3 %	2.7 %	0.3 %	0.6 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: WG1976262-10D5 WG1976262
Analysis started at: 9/27/2024 4:23:26 PM
Comments <Comment>
Rack: 1
Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.7018 ppm	-0.0009 ppm	0.0260 ppm	0.0055 ppm	0.0005 ppm	3.7264 ppm
Concentration per Run 1	0.0001 ppm	0.6823 ppm	-0.0015 ppm	0.0261 ppm	0.0053 ppm	0.0005 ppm	3.6285 ppm
Concentration per Run 2	0.0003 ppm	0.7132 ppm	-0.0002 ppm	0.0260 ppm	0.0056 ppm	0.0005 ppm	3.7733 ppm
Concentration per Run 3	0.0001 ppm	0.7098 ppm	-0.0010 ppm	0.0259 ppm	0.0056 ppm	0.0006 ppm	3.7774 ppm
Concentration RSD	63.1 %	2.4 %	73.4 %	0.4 %	3.5 %	6.7 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0002 ppm	0.0048 ppm	0.0000 ppm	0.0027 ppm	0.0729 ppm	0.7647 ppm	0.0045 ppm
Concentration per Run 1	0.0002 ppm	0.0049 ppm	-0.0002 ppm	0.0028 ppm	0.0709 ppm	0.7385 ppm	0.0042 ppm
Concentration per Run 2	0.0002 ppm	0.0047 ppm	0.0003 ppm	0.0025 ppm	0.0738 ppm	0.7563 ppm	0.0049 ppm
Concentration per Run 3	0.0002 ppm	0.0048 ppm	0.0001 ppm	0.0028 ppm	0.0741 ppm	0.7994 ppm	0.0045 ppm
Concentration RSD	5.4 %	2.6 %	661.6 %	6.3 %	2.4 %	4.1 %	7.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.7134 ppm	0.1961 ppm	0.0009 ppm	4.8351 ppm	0.0069 ppm	-0.0006 ppm	0.0005 ppm
Concentration per Run 1	1.7108 ppm	0.1906 ppm	0.0011 ppm	4.6461 ppm	0.0068 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 2	1.7128 ppm	0.1984 ppm	0.0008 ppm	4.8999 ppm	0.0070 ppm	-0.0004 ppm	0.0008 ppm
Concentration per Run 3	1.7167 ppm	0.1994 ppm	0.0008 ppm	4.9592 ppm	0.0070 ppm	-0.0008 ppm	0.0010 ppm
Concentration RSD	0.2 %	2.5 %	18.1 %	3.4 %	1.5 %	32.0 %	109.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	2.1880 ppm	0.0020 ppm	0.0480 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	-0.0012 ppm	2.1893 ppm	0.0024 ppm	0.0465 ppm	0.0001 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run 2	-0.0006 ppm	2.1877 ppm	0.0018 ppm	0.0487 ppm	0.0000 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	2.1869 ppm	0.0017 ppm	0.0488 ppm	0.0002 ppm	0.0002 ppm	0.0002 ppm
Concentration RSD	98.7 %	0.1 %	20.6 %	2.8 %	134.1 %	285.7 %	177.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0212 ppm	103.0969 %	100.5384 %	99.4449 %	101.1956 %	96.4011 %	98.5898 %
Concentration per Run 1	0.0212 ppm	104.1570 %	100.9095 %	99.6935 %	103.8666 %	96.3538 %	98.7080 %
Concentration per Run 2	0.0212 ppm	102.8809 %	100.4028 %	99.3801 %	99.8917 %	96.3732 %	98.4312 %
Concentration per Run 3	0.0211 ppm	102.2529 %	100.3027 %	99.2612 %	99.8284 %	96.4763 %	98.6303 %
Concentration RSD	0.1 %	0.9 %	0.3 %	0.2 %	2.3 %	0.1 %	0.1 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: CCV
Analysis started at: 9/27/2024 4:29:46 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5031 ppm	0.5115 ppm	0.4975 ppm	0.5064 ppm	0.5061 ppm	0.5042 ppm	0.5027 ppm
Concentration per Run 1	0.5035 ppm	0.4905 ppm	0.4971 ppm	0.5055 ppm	0.4872 ppm	0.4881 ppm	0.4888 ppm
Concentration per Run 2	0.5041 ppm	0.5229 ppm	0.4972 ppm	0.5062 ppm	0.5169 ppm	0.5117 ppm	0.5093 ppm
Concentration per Run 3	0.5016 ppm	0.5212 ppm	0.4982 ppm	0.5074 ppm	0.5142 ppm	0.5129 ppm	0.5101 ppm
Recovery Percentage 1	100.616 %	102.302 %	99.503 %	101.274 %	101.220 %	100.846 %	100.548 %
Concentration RSD	0.3 %	3.6 %	0.1 %	0.2 %	3.2 %	2.8 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4972 ppm	0.4809 ppm	0.4959 ppm	0.4891 ppm	0.4982 ppm	5.1452 ppm	0.4965 ppm
Concentration per Run 1	0.4979 ppm	0.4813 ppm	0.4973 ppm	0.4869 ppm	0.4815 ppm	4.9225 ppm	0.4710 ppm
Concentration per Run 2	0.4972 ppm	0.4807 ppm	0.4962 ppm	0.4923 ppm	0.5073 ppm	5.3079 ppm	0.5135 ppm
Concentration per Run 3	0.4967 ppm	0.4808 ppm	0.4941 ppm	0.4879 ppm	0.5058 ppm	5.2053 ppm	0.5051 ppm
Recovery Percentage 1	99.449 %	96.187 %	99.174 %	97.812 %	99.639 %	102.904 %	99.303 %
Concentration RSD	0.1 %	0.1 %	0.3 %	0.6 %	2.9 %	3.9 %	4.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5078 ppm	0.4916 ppm	0.5000 ppm	9.9072 ppm	0.4799 ppm	0.4835 ppm	0.4821 ppm
Concentration per Run 1	0.5088 ppm	0.4772 ppm	0.4998 ppm	9.4289 ppm	0.4797 ppm	0.4835 ppm	0.4817 ppm
Concentration per Run 2	0.5071 ppm	0.4983 ppm	0.4998 ppm	10.2432 ppm	0.4807 ppm	0.4832 ppm	0.4816 ppm
Concentration per Run 3	0.5076 ppm	0.4993 ppm	0.5005 ppm	10.0494 ppm	0.4794 ppm	0.4837 ppm	0.4829 ppm
Recovery Percentage 1	101.566 %	98.321 %	100.007 %	99.072 %	95.980 %	96.694 %	96.413 %
Concentration RSD	0.2 %	2.5 %	0.1 %	4.3 %	0.1 %	0.0 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5052 ppm	5.2949 ppm	0.4947 ppm	0.4854 ppm	0.5051 ppm	0.4996 ppm	0.4967 ppm
Concentration per Run 1	0.5028 ppm	5.2947 ppm	0.4948 ppm	0.4675 ppm	0.5052 ppm	0.5005 ppm	0.4977 ppm
Concentration per Run 2	0.5053 ppm	5.2897 ppm	0.4955 ppm	0.4955 ppm	0.5071 ppm	0.5001 ppm	0.4984 ppm
Concentration per Run 3	0.5075 ppm	5.3003 ppm	0.4937 ppm	0.4931 ppm	0.5031 ppm	0.4981 ppm	0.4942 ppm
Recovery Percentage 1	101.038 %	100.855 %	98.933 %	97.074 %	101.028 %	99.916 %	99.349 %
Concentration RSD	0.5 %	0.1 %	0.2 %	3.2 %	0.4 %	0.3 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4671 ppm	101.9596 %	99.3961 %	97.7642 %	98.8368 %	91.2593 %	97.9777 %
Concentration per Run 1	0.4687 ppm	102.8546 %	99.3426 %	97.9638 %	101.6251 %	91.3373 %	98.0097 %
Concentration per Run 2	0.4673 ppm	102.0945 %	99.5917 %	97.7750 %	97.7890 %	91.2477 %	97.7390 %
Concentration per Run 3	0.4652 ppm	100.9297 %	99.2541 %	97.5538 %	97.0963 %	91.1928 %	98.1844 %
Recovery Percentage 1	93.414 %						
Concentration RSD	0.4 %	1.0 %	0.2 %	0.2 %	2.5 %	0.1 %	0.2 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: CCB
Analysis started at: 9/27/2024 4:35:48 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0027 ppm	-0.0006 ppm	0.0021 ppm	0.0000 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 1	0.0001 ppm	-0.0045 ppm	-0.0012 ppm	0.0022 ppm	-0.0001 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run 2	0.0002 ppm	-0.0016 ppm	-0.0005 ppm	0.0020 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	0.0001 ppm	-0.0019 ppm	-0.0001 ppm	0.0022 ppm	0.0000 ppm	0.0000 ppm	0.0050 ppm
Recovery Percentage 1	2.111 %	-2.667 %	-11.446 %	7.027 %	-0.386 %	0.041 %	2.677 %
Concentration RSD	22.9 %	59.5 %	97.1 %	6.4 %	86.6 %	201.7 %	91.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0025 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0011 ppm	0.0153 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0007 ppm	0.0019 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0002 ppm	0.0005 ppm	-0.0096 ppm	0.0001 ppm
Recovery Percentage 1	-0.511 %	0.184 %	0.950 %	-0.456 %	-0.820 %	0.101 %	-0.319 %
Concentration RSD	31.4 %	331.5 %	130.3 %	341.4 %	197.0 %	494.6 %	854.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0012 ppm	0.0000 ppm	0.0004 ppm	0.0031 ppm	0.0002 ppm	0.0001 ppm	-0.0004 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0014 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 2	0.0016 ppm	0.0002 ppm	0.0004 ppm	0.0040 ppm	0.0004 ppm	0.0002 ppm	-0.0010 ppm
Concentration per Run 3	0.0021 ppm	-0.0001 ppm	0.0002 ppm	0.0039 ppm	0.0001 ppm	-0.0001 ppm	-0.0004 ppm
Recovery Percentage 1	1.179 %	0.216 %	0.737 %	0.156 %	0.690 %	1.416 %	-0.806 %
Concentration RSD	95.8 %	732.6 %	37.8 %	47.8 %	131.1 %	168.4 %	148.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0003 ppm	-0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 1	0.0002 ppm	-0.0003 ppm	0.0006 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 2	-0.0003 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 3	-0.0008 ppm	-0.0012 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm
Recovery Percentage 1	-2.748 %	-0.095 %	0.481 %	-0.072 %	1.602 %	1.426 %	-0.948 %
Concentration RSD	189.2 %	137.4 %	183.9 %	40.6 %	50.5 %	145.1 %	66.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	100.7358 %	100.3069 %	99.1933 %	98.9406 %	99.6324 %	98.5351 %
Concentration per Run 1	0.0002 ppm	102.4695 %	100.2543 %	99.1485 %	102.4852 %	99.5638 %	98.7109 %
Concentration per Run 2	0.0002 ppm	100.6286 %	100.3618 %	99.3178 %	98.6019 %	99.4676 %	98.3996 %
Concentration per Run 3	0.0003 ppm	99.1093 %	100.3047 %	99.1136 %	95.7348 %	99.8659 %	98.4949 %
Recovery Percentage 1	4.848 %						
Concentration RSD	20.8 %	1.7 %	0.1 %	0.1 %	3.4 %	0.2 %	0.2 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454206-07 WG1976262
Analysis started at: 9/27/2024 4:42:41 PM
Comments <Comment>
Rack: 1
Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	1.7285 ppm	0.0000 ppm	0.0497 ppm	0.0867 ppm	0.0002 ppm	25.7406 ppm
Concentration per Run 1	0.0000 ppm	1.6705 ppm	-0.0012 ppm	0.0498 ppm	0.0840 ppm	0.0002 ppm	24.9854 ppm
Concentration per Run 2	0.0004 ppm	1.7887 ppm	0.0004 ppm	0.0493 ppm	0.0892 ppm	0.0002 ppm	26.4255 ppm
Concentration per Run 3	0.0001 ppm	1.7264 ppm	0.0008 ppm	0.0499 ppm	0.0868 ppm	0.0002 ppm	25.8108 ppm
Concentration RSD	122.3 %	3.4 %	5,473.3 %	0.6 %	3.0 %	6.4 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0040 ppm	0.0025 ppm	0.0045 ppm	4.5292 ppm	3.6870 ppm	0.0044 ppm
Concentration per Run 1	-0.0001 ppm	0.0041 ppm	0.0026 ppm	0.0047 ppm	4.4096 ppm	3.5640 ppm	0.0043 ppm
Concentration per Run 2	0.0000 ppm	0.0039 ppm	0.0027 ppm	0.0043 ppm	4.6446 ppm	3.8491 ppm	0.0046 ppm
Concentration per Run 3	0.0000 ppm	0.0042 ppm	0.0023 ppm	0.0046 ppm	4.5333 ppm	3.6479 ppm	0.0044 ppm
Concentration RSD	51.1 %	3.2 %	8.7 %	3.8 %	2.6 %	4.0 %	3.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.1266 ppm	0.6534 ppm	0.0002 ppm	23.1560 ppm	0.0042 ppm	0.0024 ppm	-0.0003 ppm
Concentration per Run 1	6.1203 ppm	0.6327 ppm	0.0001 ppm	22.4893 ppm	0.0042 ppm	0.0022 ppm	-0.0008 ppm
Concentration per Run 2	6.1224 ppm	0.6698 ppm	0.0002 ppm	24.0973 ppm	0.0041 ppm	0.0025 ppm	-0.0003 ppm
Concentration per Run 3	6.1370 ppm	0.6576 ppm	0.0003 ppm	22.8816 ppm	0.0043 ppm	0.0025 ppm	0.0001 ppm
Concentration RSD	0.1 %	2.9 %	48.7 %	3.6 %	3.0 %	8.6 %	145.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	6.3184 ppm	-0.0002 ppm	0.1307 ppm	0.0498 ppm	-0.0002 ppm	0.0091 ppm
Concentration per Run 1	0.0007 ppm	6.3161 ppm	-0.0003 ppm	0.1265 ppm	0.0499 ppm	-0.0006 ppm	0.0091 ppm
Concentration per Run 2	-0.0001 ppm	6.2839 ppm	0.0001 ppm	0.1342 ppm	0.0494 ppm	0.0001 ppm	0.0089 ppm
Concentration per Run 3	-0.0003 ppm	6.3553 ppm	-0.0002 ppm	0.1314 ppm	0.0499 ppm	-0.0002 ppm	0.0092 ppm
Concentration RSD	611.8 %	0.6 %	125.9 %	3.0 %	0.6 %	137.5 %	2.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0177 ppm	102.5088 %	98.9877 %	97.0082 %	99.5448 %	89.0339 %	96.5168 %
Concentration per Run 1	0.0178 ppm	105.3405 %	98.9901 %	97.2979 %	103.0423 %	89.3540 %	96.3688 %
Concentration per Run 2	0.0176 ppm	100.2887 %	98.7966 %	97.2559 %	97.0110 %	89.5773 %	96.8109 %
Concentration per Run 3	0.0178 ppm	101.8973 %	99.1763 %	96.4707 %	98.5811 %	88.1704 %	96.3707 %
Concentration RSD	0.6 %	2.5 %	0.2 %	0.5 %	3.1 %	0.8 %	0.3 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454206-08 WG1976262
Analysis started at: 9/27/2024 4:48:57 PM
Comments <Comment>
Rack: 1
Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0260 ppm	-0.0012 ppm	0.3713 ppm	0.0187 ppm	0.0004 ppm	152.7405 ppm
Concentration per Run 1	0.0003 ppm	0.0247 ppm	-0.0012 ppm	0.3739 ppm	0.0181 ppm	0.0004 ppm	150.9916 ppm
Concentration per Run 2	0.0002 ppm	0.0281 ppm	-0.0009 ppm	0.3705 ppm	0.0189 ppm	0.0004 ppm	153.9722 ppm
Concentration per Run 3	0.0003 ppm	0.0252 ppm	-0.0015 ppm	0.3695 ppm	0.0190 ppm	0.0004 ppm	153.2577 ppm
Concentration RSD	17.0 %	7.0 %	23.9 %	0.6 %	2.6 %	2.8 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0006 ppm	0.0219 ppm	0.0003 ppm	0.0028 ppm	1.0333 ppm	13.3260 ppm	0.0285 ppm
Concentration per Run 1	-0.0007 ppm	0.0219 ppm	0.0005 ppm	0.0028 ppm	1.0164 ppm	12.6514 ppm	0.0266 ppm
Concentration per Run 2	-0.0006 ppm	0.0221 ppm	0.0003 ppm	0.0028 ppm	1.0435 ppm	13.5376 ppm	0.0289 ppm
Concentration per Run 3	-0.0006 ppm	0.0218 ppm	0.0003 ppm	0.0029 ppm	1.0400 ppm	13.7891 ppm	0.0299 ppm
Concentration RSD	2.1 %	0.6 %	31.1 %	2.1 %	1.4 %	4.5 %	6.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	87.2867 ppm	0.3420 ppm	0.0003 ppm	48.1431 ppm	0.1778 ppm	-0.0057 ppm	0.0024 ppm
Concentration per Run 1	87.7454 ppm	0.3364 ppm	0.0003 ppm	45.6980 ppm	0.1783 ppm	-0.0056 ppm	0.0019 ppm
Concentration per Run 2	86.9056 ppm	0.3448 ppm	0.0002 ppm	48.8983 ppm	0.1782 ppm	-0.0059 ppm	0.0030 ppm
Concentration per Run 3	87.2091 ppm	0.3448 ppm	0.0004 ppm	49.8330 ppm	0.1770 ppm	-0.0057 ppm	0.0024 ppm
Concentration RSD	0.5 %	1.4 %	33.8 %	4.5 %	0.4 %	2.0 %	21.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0003 ppm	19.0918 ppm	-0.0004 ppm	0.9889 ppm	-0.0009 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 1	-0.0007 ppm	19.2002 ppm	-0.0004 ppm	0.9600 ppm	-0.0009 ppm	0.0012 ppm	0.0002 ppm
Concentration per Run 2	0.0016 ppm	19.1311 ppm	-0.0005 ppm	0.9978 ppm	-0.0008 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	18.9443 ppm	-0.0004 ppm	1.0090 ppm	-0.0010 ppm	-0.0013 ppm	0.0005 ppm
Concentration RSD	350.8 %	0.7 %	10.4 %	2.6 %	12.8 %	1,745.3 %	42.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0541 ppm	106.0903 %	96.1304 %	89.8202 %	99.1351 %	70.5075 %	89.6254 %
Concentration per Run 1	0.0530 ppm	107.1297 %	96.1317 %	88.8995 %	100.9510 %	69.8852 %	89.7712 %
Concentration per Run 2	0.0547 ppm	105.2937 %	96.8508 %	89.9894 %	98.4943 %	70.3552 %	90.2631 %
Concentration per Run 3	0.0547 ppm	105.8476 %	95.4087 %	90.5719 %	97.9602 %	71.2821 %	88.8420 %
Concentration RSD	1.8 %	0.9 %	0.8 %	0.9 %	1.6 %	1.0 %	0.8 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454206-10 WG1976262
Analysis started at: 9/27/2024 4:55:15 PM
Comments <Comment>
Rack: 1
Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0081 ppm	-0.0017 ppm	0.0511 ppm	0.0536 ppm	0.0000 ppm	15.7167 ppm
Concentration per Run 1	0.0001 ppm	0.0098 ppm	-0.0018 ppm	0.0510 ppm	0.0524 ppm	0.0000 ppm	15.4986 ppm
Concentration per Run 2	0.0002 ppm	0.0089 ppm	-0.0019 ppm	0.0513 ppm	0.0539 ppm	0.0000 ppm	15.7574 ppm
Concentration per Run 3	-0.0001 ppm	0.0056 ppm	-0.0015 ppm	0.0510 ppm	0.0546 ppm	0.0000 ppm	15.8939 ppm
Concentration RSD	204.2 %	27.1 %	11.2 %	0.3 %	2.1 %	34.2 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0031 ppm	3.2756 ppm	0.0048 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0028 ppm	3.2201 ppm	0.0045 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0006 ppm	0.0031 ppm	3.2956 ppm	0.0049 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0008 ppm	0.0035 ppm	3.3112 ppm	0.0049 ppm
Concentration RSD	62.9 %	76.4 %	57.2 %	14.9 %	12.0 %	1.5 %	4.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.9963 ppm	0.0043 ppm	0.0002 ppm	18.1064 ppm	0.0019 ppm	-0.0014 ppm	0.0004 ppm
Concentration per Run 1	4.9910 ppm	0.0043 ppm	0.0003 ppm	17.7424 ppm	0.0018 ppm	-0.0016 ppm	0.0005 ppm
Concentration per Run 2	4.9918 ppm	0.0042 ppm	0.0002 ppm	18.1798 ppm	0.0019 ppm	-0.0012 ppm	0.0005 ppm
Concentration per Run 3	5.0061 ppm	0.0044 ppm	0.0000 ppm	18.3968 ppm	0.0019 ppm	-0.0014 ppm	0.0002 ppm
Concentration RSD	0.2 %	1.8 %	78.4 %	1.8 %	2.6 %	17.0 %	38.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	3.3213 ppm	-0.0003 ppm	0.1098 ppm	0.0001 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	3.3229 ppm	-0.0003 ppm	0.1073 ppm	0.0000 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 2	-0.0003 ppm	3.3243 ppm	0.0000 ppm	0.1105 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	0.0010 ppm	3.3168 ppm	-0.0006 ppm	0.1115 ppm	0.0002 ppm	-0.0005 ppm	-0.0002 ppm
Concentration RSD	283.1 %	0.1 %	93.2 %	2.0 %	64.6 %	154.3 %	78.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0019 ppm	105.0148 %	97.5056 %	92.7278 %	103.6523 %	87.9572 %	96.7379 %
Concentration per Run 1	0.0019 ppm	105.8878 %	97.6199 %	93.0097 %	105.5263 %	87.8637 %	96.5468 %
Concentration per Run 2	0.0019 ppm	104.2950 %	97.1561 %	92.0311 %	103.4053 %	87.6360 %	97.1612 %
Concentration per Run 3	0.0019 ppm	104.8615 %	97.7407 %	93.1426 %	102.0254 %	88.3718 %	96.5058 %
Concentration RSD	1.0 %	0.8 %	0.3 %	0.7 %	1.7 %	0.4 %	0.4 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454206-11 WG1976262
Analysis started at: 9/27/2024 5:01:36 PM
Comments <Comment>
Rack: 1
Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.2012 ppm	-0.0010 ppm	0.1750 ppm	0.0200 ppm	0.0118 ppm	54.5392 ppm
Concentration per Run 1	0.0005 ppm	0.1980 ppm	-0.0006 ppm	0.1755 ppm	0.0193 ppm	0.0115 ppm	53.2722 ppm
Concentration per Run 2	0.0008 ppm	0.2035 ppm	-0.0014 ppm	0.1744 ppm	0.0203 ppm	0.0119 ppm	54.6242 ppm
Concentration per Run 3	0.0004 ppm	0.2022 ppm	-0.0009 ppm	0.1751 ppm	0.0204 ppm	0.0120 ppm	55.7210 ppm
Concentration RSD	40.7 %	1.4 %	44.0 %	0.3 %	3.1 %	2.4 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0003 ppm	0.3086 ppm	0.0012 ppm	0.0006 ppm	7.2431 ppm	6.7357 ppm	0.0735 ppm
Concentration per Run 1	-0.0002 ppm	0.3068 ppm	0.0014 ppm	0.0006 ppm	7.0496 ppm	6.4084 ppm	0.0701 ppm
Concentration per Run 2	-0.0003 ppm	0.3080 ppm	0.0012 ppm	0.0006 ppm	7.3038 ppm	6.9131 ppm	0.0761 ppm
Concentration per Run 3	-0.0002 ppm	0.3110 ppm	0.0012 ppm	0.0006 ppm	7.3760 ppm	6.8858 ppm	0.0745 ppm
Concentration RSD	16.4 %	0.7 %	11.0 %	5.3 %	2.4 %	4.2 %	4.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	30.1300 ppm	8.3294 ppm	-0.0001 ppm	35.1180 ppm	0.0870 ppm	-0.0061 ppm	0.0005 ppm
Concentration per Run 1	30.1355 ppm	8.1254 ppm	0.0000 ppm	33.5798 ppm	0.0861 ppm	-0.0057 ppm	0.0009 ppm
Concentration per Run 2	30.1488 ppm	8.3674 ppm	0.0000 ppm	36.0402 ppm	0.0867 ppm	-0.0064 ppm	0.0004 ppm
Concentration per Run 3	30.1057 ppm	8.4955 ppm	-0.0002 ppm	35.7339 ppm	0.0883 ppm	-0.0064 ppm	0.0003 ppm
Concentration RSD	0.1 %	2.3 %	137.4 %	3.8 %	1.3 %	6.4 %	64.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0012 ppm	21.6530 [SIC 50]	-0.0001 ppm	0.5292 ppm	-0.0003 ppm	-0.0018 ppm	0.0059 ppm
Concentration per Run 1	0.0003 ppm	21.5133 ppm	-0.0002 ppm	0.5113 ppm	-0.0003 ppm	-0.0020 ppm	0.0061 ppm
Concentration per Run 2	-0.0024 ppm	21.5787 ppm	-0.0001 ppm	0.5379 ppm	-0.0002 ppm	-0.0017 ppm	0.0061 ppm
Concentration per Run 3	-0.0016 ppm	21.8669 ppm	0.0001 ppm	0.5384 ppm	-0.0002 ppm	-0.0017 ppm	0.0057 ppm
Concentration RSD	114.0 %	0.9 %	281.6 %	2.9 %	25.3 %	10.2 %	4.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3428 ppm	105.3616 %	97.0047 %	92.2444 %	102.2501 %	78.6411 %	93.2307 %
Concentration per Run 1	0.3405 ppm	106.5870 %	97.0256 %	92.5763 %	105.1256 %	79.4675 %	93.2990 %
Concentration per Run 2	0.3431 ppm	105.7651 %	96.9140 %	92.8811 %	102.1155 %	79.0526 %	93.5899 %
Concentration per Run 3	0.3449 ppm	103.7326 %	97.0744 %	91.2759 %	99.5091 %	77.4033 %	92.8031 %
Concentration RSD	0.6 %	1.4 %	0.1 %	0.9 %	2.7 %	1.4 %	0.4 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454206-12 WG1976262
Analysis started at: 9/27/2024 5:07:48 PM
Comments <Comment>
Rack: 1
Vial: 44

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0255 ppm	-0.0012 ppm	0.3650 ppm	0.0184 ppm	0.0004 ppm	149.0923 ppm
Concentration per Run 1	0.0004 ppm	0.0219 ppm	-0.0015 ppm	0.3685 ppm	0.0179 ppm	0.0004 ppm	145.5139 ppm
Concentration per Run 2	0.0003 ppm	0.0305 ppm	-0.0009 ppm	0.3640 ppm	0.0186 ppm	0.0004 ppm	149.7209 ppm
Concentration per Run 3	0.0001 ppm	0.0240 ppm	-0.0012 ppm	0.3624 ppm	0.0187 ppm	0.0004 ppm	152.0420 ppm
Concentration RSD	49.7 %	17.6 %	21.6 %	0.9 %	2.5 %	5.5 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0006 ppm	0.0216 ppm	0.0001 ppm	0.0028 ppm	1.1124 ppm	12.7159 ppm	0.0273 ppm
Concentration per Run 1	-0.0007 ppm	0.0215 ppm	0.0002 ppm	0.0026 ppm	1.0828 ppm	12.2957 ppm	0.0263 ppm
Concentration per Run 2	-0.0006 ppm	0.0217 ppm	0.0000 ppm	0.0029 ppm	1.1221 ppm	12.7718 ppm	0.0279 ppm
Concentration per Run 3	-0.0006 ppm	0.0215 ppm	0.0002 ppm	0.0029 ppm	1.1323 ppm	13.0804 ppm	0.0277 ppm
Concentration RSD	6.4 %	0.6 %	75.6 %	6.5 %	2.3 %	3.1 %	3.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	86.1546 ppm	0.3404 ppm	0.0002 ppm	46.2134 ppm	0.1763 ppm	-0.0057 ppm	0.0024 ppm
Concentration per Run 1	86.3801 ppm	0.3319 ppm	0.0002 ppm	44.7387 ppm	0.1756 ppm	-0.0055 ppm	0.0025 ppm
Concentration per Run 2	86.0816 ppm	0.3423 ppm	0.0003 ppm	46.5231 ppm	0.1761 ppm	-0.0059 ppm	0.0021 ppm
Concentration per Run 3	86.0021 ppm	0.3469 ppm	0.0001 ppm	47.3786 ppm	0.1772 ppm	-0.0056 ppm	0.0025 ppm
Concentration RSD	0.2 %	2.3 %	46.5 %	2.9 %	0.5 %	3.9 %	9.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	19.0372 ppm	-0.0002 ppm	0.9731 ppm	-0.0007 ppm	-0.0007 ppm	0.0003 ppm
Concentration per Run 1	-0.0021 ppm	19.1722 ppm	-0.0003 ppm	0.9461 ppm	-0.0006 ppm	-0.0008 ppm	0.0004 ppm
Concentration per Run 2	0.0001 ppm	19.0327 ppm	0.0001 ppm	0.9836 ppm	-0.0008 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 3	0.0003 ppm	18.9067 ppm	-0.0004 ppm	0.9895 ppm	-0.0007 ppm	-0.0009 ppm	0.0002 ppm
Concentration RSD	230.1 %	0.7 %	124.3 %	2.4 %	10.5 %	29.6 %	66.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0536 ppm	106.6526 %	95.4195 %	89.1092 %	99.4948 %	70.1331 %	88.7636 %
Concentration per Run 1	0.0526 ppm	108.4778 %	95.8229 %	87.8060 %	102.8349 %	69.2815 %	89.1647 %
Concentration per Run 2	0.0538 ppm	106.0492 %	95.3821 %	89.6644 %	98.2815 %	70.4521 %	89.0704 %
Concentration per Run 3	0.0544 ppm	105.4308 %	95.0537 %	89.8572 %	97.3680 %	70.6657 %	88.0556 %
Concentration RSD	1.7 %	1.5 %	0.4 %	1.3 %	2.9 %	1.1 %	0.7 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: CCV
Analysis started at: 9/27/2024 5:14:04 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4867 ppm	0.5026 ppm	0.5038 ppm	0.5204 ppm	0.5092 ppm	0.4991 ppm	0.4795 ppm
Concentration per Run 1	0.4879 ppm	0.4897 ppm	0.5029 ppm	0.5198 ppm	0.4941 ppm	0.4836 ppm	0.4627 ppm
Concentration per Run 2	0.4856 ppm	0.5094 ppm	0.5031 ppm	0.5200 ppm	0.5138 ppm	0.5031 ppm	0.4846 ppm
Concentration per Run 3	0.4866 ppm	0.5086 ppm	0.5053 ppm	0.5213 ppm	0.5197 ppm	0.5105 ppm	0.4912 ppm
Recovery Percentage 1	97.334 %	100.511 %	100.752 %	104.075 %	101.844 %	99.812 %	95.899 %
Concentration RSD	0.2 %	2.2 %	0.3 %	0.2 %	2.6 %	2.8 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4840 ppm	0.4941 ppm	0.4779 ppm	0.4913 ppm	0.4885 ppm	5.1812 ppm	0.5080 ppm
Concentration per Run 1	0.4848 ppm	0.4943 ppm	0.4831 ppm	0.4913 ppm	0.4720 ppm	5.0932 ppm	0.4975 ppm
Concentration per Run 2	0.4836 ppm	0.4939 ppm	0.4757 ppm	0.4912 ppm	0.4940 ppm	5.1897 ppm	0.5096 ppm
Concentration per Run 3	0.4835 ppm	0.4942 ppm	0.4749 ppm	0.4914 ppm	0.4995 ppm	5.2608 ppm	0.5167 ppm
Recovery Percentage 1	96.798 %	98.825 %	95.579 %	98.261 %	97.702 %	103.624 %	101.591 %
Concentration RSD	0.2 %	0.0 %	0.9 %	0.0 %	3.0 %	1.6 %	1.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4858 ppm	0.4779 ppm	0.5099 ppm	9.9930 ppm	0.4927 ppm	0.4913 ppm	0.5042 ppm
Concentration per Run 1	0.4879 ppm	0.4637 ppm	0.5091 ppm	9.7951 ppm	0.4922 ppm	0.4928 ppm	0.5037 ppm
Concentration per Run 2	0.4853 ppm	0.4821 ppm	0.5094 ppm	10.0301 ppm	0.4930 ppm	0.4907 ppm	0.5046 ppm
Concentration per Run 3	0.4843 ppm	0.4879 ppm	0.5111 ppm	10.1537 ppm	0.4930 ppm	0.4905 ppm	0.5041 ppm
Recovery Percentage 1	97.164 %	95.585 %	101.974 %	99.930 %	98.546 %	98.268 %	100.832 %
Concentration RSD	0.4 %	2.6 %	0.2 %	1.8 %	0.1 %	0.3 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5124 ppm	5.5469 ppm	0.4884 ppm	0.4883 ppm	0.4997 ppm	0.5120 ppm	0.4885 ppm
Concentration per Run 1	0.5122 ppm	5.5367 ppm	0.4878 ppm	0.4744 ppm	0.5034 ppm	0.5109 ppm	0.4927 ppm
Concentration per Run 2	0.5116 ppm	5.5484 ppm	0.4877 ppm	0.4927 ppm	0.4980 ppm	0.5134 ppm	0.4856 ppm
Concentration per Run 3	0.5135 ppm	5.5555 ppm	0.4896 ppm	0.4978 ppm	0.4979 ppm	0.5117 ppm	0.4871 ppm
Recovery Percentage 1	102.488 %	105.655 %	97.670 %	97.665 %	99.948 %	102.403 %	97.694 %
Concentration RSD	0.2 %	0.2 %	0.2 %	2.5 %	0.6 %	0.3 %	0.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4579 ppm	105.4982 %	98.0490 %	91.5154 %	103.0534 %	83.7433 %	96.6947 %
Concentration per Run 1	0.4590 ppm	107.5101 %	98.2750 %	91.7935 %	106.5937 %	83.9688 %	96.5787 %
Concentration per Run 2	0.4583 ppm	104.5076 %	97.9841 %	91.6605 %	102.0074 %	83.8432 %	96.8785 %
Concentration per Run 3	0.4564 ppm	104.4768 %	97.8878 %	91.0921 %	100.5591 %	83.4179 %	96.6269 %
Recovery Percentage 1	91.583 %						
Concentration RSD	0.3 %	1.7 %	0.2 %	0.4 %	3.1 %	0.3 %	0.2 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: CCB
Analysis started at: 9/27/2024 5:20:07 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0008 ppm	0.0017 ppm	-0.0001 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	-0.0013 ppm	0.0008 ppm	0.0017 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	0.0002 ppm	0.0019 ppm	0.0004 ppm	0.0015 ppm	-0.0001 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 3	0.0001 ppm	-0.0008 ppm	0.0011 ppm	0.0019 ppm	-0.0001 ppm	0.0000 ppm	0.0006 ppm
Recovery Percentage 1	1.310 %	-0.076 %	15.245 %	5.595 %	-0.802 %	-0.003 %	0.784 %
Concentration RSD	66.9 %	2,288.5 %	47.9 %	12.8 %	20.8 %	10,194.7 %	114.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0115 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0112 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0211 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0022 ppm	0.0000 ppm
Recovery Percentage 1	-0.269 %	0.360 %	0.062 %	-0.455 %	-0.053 %	0.461 %	-1.085 %
Concentration RSD	394.5 %	37.5 %	1,872.8 %	126.4 %	797.9 %	82.1 %	91.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0011 ppm	0.0001 ppm	0.0002 ppm	0.0065 ppm	0.0001 ppm	-0.0004 ppm	-0.0005 ppm
Concentration per Run 1	0.0018 ppm	0.0001 ppm	0.0002 ppm	0.0068 ppm	0.0000 ppm	-0.0005 ppm	-0.0006 ppm
Concentration per Run 2	0.0010 ppm	0.0001 ppm	0.0003 ppm	0.0068 ppm	-0.0001 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 3	0.0004 ppm	0.0000 ppm	0.0002 ppm	0.0060 ppm	0.0002 ppm	-0.0004 ppm	-0.0007 ppm
Recovery Percentage 1	1.080 %	0.586 %	0.424 %	0.327 %	0.254 %	-4.046 %	-0.993 %
Concentration RSD	61.4 %	85.6 %	22.1 %	6.8 %	225.1 %	31.0 %	58.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	-0.0006 ppm	0.0006 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	-0.0007 ppm	-0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	-0.0001 ppm
Recovery Percentage 1	-1.289 %	-0.106 %	0.293 %	0.067 %	1.830 %	0.739 %	-0.496 %
Concentration RSD	395.6 %	35.4 %	259.1 %	62.6 %	97.3 %	323.6 %	196.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	104.7899 %	99.3717 %	94.3231 %	103.0011 %	93.1203 %	97.8194 %
Concentration per Run 1	0.0002 ppm	103.6408 %	99.5157 %	93.8971 %	104.0773 %	92.8947 %	97.7040 %
Concentration per Run 2	0.0001 ppm	105.3778 %	98.9787 %	94.5324 %	102.9594 %	93.1563 %	97.9113 %
Concentration per Run 3	0.0002 ppm	105.3510 %	99.6205 %	94.5399 %	101.9666 %	93.3099 %	97.8430 %
Recovery Percentage 1	3.785 %						
Concentration RSD	26.0 %	0.9 %	0.3 %	0.4 %	1.0 %	0.2 %	0.1 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2454352-01 WG1976217
Analysis started at: 9/27/2024 5:29:12 PM
Comments <Comment>
Rack: 1
Vial: 56

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0013 ppm	-0.0018 ppm	0.0277 ppm	0.0160 ppm	0.0000 ppm	13.5937 ppm
Concentration per Run 1	0.0001 ppm	-0.0025 ppm	-0.0014 ppm	0.0277 ppm	0.0156 ppm	0.0000 ppm	13.2756 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	-0.0024 ppm	0.0278 ppm	0.0162 ppm	0.0000 ppm	13.6707 ppm
Concentration per Run 3	0.0000 ppm	-0.0016 ppm	-0.0016 ppm	0.0276 ppm	0.0162 ppm	0.0000 ppm	13.8347 ppm
Concentration RSD	70.5 %	109.2 %	29.4 %	0.4 %	2.0 %	49.8 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	-0.0003 ppm	0.0011 ppm	0.0005 ppm	0.0015 ppm	1.5022 ppm	0.0013 ppm
Concentration per Run 1	-0.0001 ppm	-0.0003 ppm	0.0010 ppm	0.0004 ppm	0.0008 ppm	1.4780 ppm	0.0009 ppm
Concentration per Run 2	-0.0001 ppm	-0.0002 ppm	0.0009 ppm	0.0005 ppm	0.0015 ppm	1.5205 ppm	0.0015 ppm
Concentration per Run 3	-0.0001 ppm	-0.0004 ppm	0.0014 ppm	0.0006 ppm	0.0023 ppm	1.5081 ppm	0.0013 ppm
Concentration RSD	21.9 %	28.3 %	23.2 %	17.3 %	49.0 %	1.5 %	23.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.2244 ppm	0.0007 ppm	0.0002 ppm	21.4125 ppm	-0.0002 ppm	-0.0032 ppm	0.0000 ppm
Concentration per Run 1	6.1965 ppm	0.0007 ppm	0.0002 ppm	21.0379 ppm	-0.0005 ppm	-0.0031 ppm	0.0003 ppm
Concentration per Run 2	6.2481 ppm	0.0008 ppm	0.0002 ppm	21.6560 ppm	0.0000 ppm	-0.0032 ppm	-0.0002 ppm
Concentration per Run 3	6.2285 ppm	0.0007 ppm	0.0001 ppm	21.5437 ppm	0.0000 ppm	-0.0032 ppm	0.0000 ppm
Concentration RSD	0.4 %	6.2 %	29.6 %	1.5 %	176.2 %	2.1 %	551.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	8.4583 ppm	-0.0002 ppm	0.0793 ppm	0.0001 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 1	0.0013 ppm	8.4560 ppm	0.0003 ppm	0.0775 ppm	0.0001 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 2	-0.0001 ppm	8.4550 ppm	-0.0007 ppm	0.0801 ppm	0.0003 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 3	0.0004 ppm	8.4638 ppm	-0.0003 ppm	0.0804 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm
Concentration RSD	132.7 %	0.1 %	217.8 %	2.0 %	110.3 %	21.4 %	50.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0012 ppm	105.1098 %	97.1849 %	91.9263 %	104.2555 %	84.0886 %	96.1555 %
Concentration per Run 1	0.0013 ppm	106.8621 %	97.2878 %	91.9034 %	107.4140 %	84.1453 %	96.2674 %
Concentration per Run 2	0.0012 ppm	104.7223 %	97.1120 %	92.0666 %	103.4546 %	84.2951 %	96.3158 %
Concentration per Run 3	0.0011 ppm	103.7449 %	97.1549 %	91.8090 %	101.8978 %	83.8252 %	95.8833 %
Concentration RSD	6.9 %	1.5 %	0.1 %	0.1 %	2.7 %	0.3 %	0.2 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2452544-01 WG1975268
Analysis started at: 9/27/2024 5:35:33 PM
Comments <Comment>
Rack: 1
Vial: 47

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.6481 ppm	0.1578 ppm	0.3926 ppm	12.6495 ppm	0.0006 ppm	749.8757 ppm
Concentration per Run 1	-0.0004 ppm	0.6409 ppm	0.1578 ppm	0.3925 ppm	12.5985 ppm	0.0006 ppm	747.3436 ppm
Concentration per Run 2	-0.0004 ppm	0.6502 ppm	0.1557 ppm	0.3912 ppm	12.6918 ppm	0.0006 ppm	743.4665 ppm
Concentration per Run 3	-0.0005 ppm	0.6532 ppm	0.1597 ppm	0.3940 ppm	12.6581 ppm	0.0006 ppm	758.8170 ppm
Concentration RSD	13.5 %	1.0 %	1.3 %	0.4 %	0.4 %	2.5 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0109 ppm	0.0104 ppm	0.0664 ppm	0.0505 ppm	450.1082 [SIC 500]	27.3985 ppm	0.0418 ppm
Concentration per Run 1	-0.0109 ppm	0.0103 ppm	0.0667 ppm	0.0500 ppm	447.0290 ppm	27.3435 ppm	0.0412 ppm
Concentration per Run 2	-0.0110 ppm	0.0103 ppm	0.0659 ppm	0.0510 ppm	447.3412 ppm	27.4220 ppm	0.0420 ppm
Concentration per Run 3	-0.0108 ppm	0.0107 ppm	0.0667 ppm	0.0506 ppm	455.9545 ppm	27.4301 ppm	0.0421 ppm
Concentration RSD	0.9 %	1.9 %	0.7 %	1.0 %	1.1 %	0.2 %	1.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	148.1047 ppm	9.6368 ppm	-0.0027 ppm	191.0110 ppm	0.0349 ppm	0.0011 ppm	-0.0259 ppm
Concentration per Run 1	146.7451 ppm	9.6058 ppm	-0.0025 ppm	192.6776 ppm	0.0352 ppm	0.0016 ppm	-0.0259 ppm
Concentration per Run 2	149.3860 ppm	9.5922 ppm	-0.0029 ppm	190.0919 ppm	0.0343 ppm	0.0019 ppm	-0.0250 ppm
Concentration per Run 3	148.1829 ppm	9.7124 ppm	-0.0028 ppm	190.2633 ppm	0.0351 ppm	-0.0002 ppm	-0.0267 ppm
Concentration RSD	0.9 %	0.7 %	7.3 %	0.8 %	1.4 %	105.6 %	3.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0003 ppm	24.0853 [SIC 50]	0.0216 ppm	12.3507 ppm	0.0403 ppm	-0.0643 ppm	0.0278 ppm
Concentration per Run 1	-0.0008 ppm	24.1135 ppm	0.0221 ppm	12.3760 ppm	0.0409 ppm	-0.0664 ppm	0.0279 ppm
Concentration per Run 2	0.0000 ppm	24.1478 ppm	0.0219 ppm	12.3278 ppm	0.0401 ppm	-0.0636 ppm	0.0278 ppm
Concentration per Run 3	0.0017 ppm	23.9946 ppm	0.0209 ppm	12.3485 ppm	0.0400 ppm	-0.0629 ppm	0.0276 ppm
Concentration RSD	394.6 %	0.3 %	3.0 %	0.2 %	1.1 %	2.9 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0018 ppm	98.3671 %	79.5905 %	67.9980 %	92.7279 %	**44.8206 %**	76.0818 %
Concentration per Run 1	0.0016 ppm	98.5344 %	79.7443 %	67.9093 %	93.3627 %	**44.7107 %**	76.0187 %
Concentration per Run 2	0.0022 ppm	98.6374 %	79.3563 %	68.2359 %	93.0365 %	**44.8406 %**	76.0060 %
Concentration per Run 3	0.0016 ppm	97.9297 %	79.6710 %	67.8487 %	91.7845 %	**44.9104 %**	76.2207 %
Concentration RSD	18.2 %	0.4 %	0.3 %	0.3 %	0.9 %	**0.2 %**	0.2 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2452544-02 WG1975268
Analysis started at: 9/27/2024 5:42:38 PM
Comments <Comment>
Rack: 1
Vial: 48

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.8955 ppm	0.0479 ppm	0.2327 ppm	3.4018 ppm	0.0000 ppm	282.8850 ppm
Concentration per Run 1	0.0004 ppm	0.8885 ppm	0.0467 ppm	0.2328 ppm	3.3898 ppm	0.0000 ppm	282.5962 ppm
Concentration per Run 2	0.0005 ppm	0.8924 ppm	0.0501 ppm	0.2329 ppm	3.4307 ppm	0.0000 ppm	283.6450 ppm
Concentration per Run 3	0.0004 ppm	0.9057 ppm	0.0467 ppm	0.2324 ppm	3.3848 ppm	0.0000 ppm	282.4137 ppm
Concentration RSD	18.8 %	1.0 %	4.1 %	0.1 %	0.7 %	14.2 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0029 ppm	0.0237 ppm	0.0064 ppm	0.0391 ppm	107.2712 ppm	12.3313 ppm	0.0419 ppm
Concentration per Run 1	-0.0030 ppm	0.0236 ppm	0.0063 ppm	0.0390 ppm	106.9722 ppm	12.1129 ppm	0.0407 ppm
Concentration per Run 2	-0.0029 ppm	0.0235 ppm	0.0063 ppm	0.0390 ppm	107.2104 ppm	12.4038 ppm	0.0423 ppm
Concentration per Run 3	-0.0029 ppm	0.0238 ppm	0.0067 ppm	0.0393 ppm	107.6310 ppm	12.4773 ppm	0.0428 ppm
Concentration RSD	1.1 %	0.7 %	3.2 %	0.4 %	0.3 %	1.6 %	2.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	87.1208 ppm	9.7771 ppm	0.0001 ppm	189.9119 ppm	0.0146 ppm	-0.0042 ppm	-0.0033 ppm
Concentration per Run 1	87.2960 ppm	9.7279 ppm	0.0003 ppm	185.3985 ppm	0.0148 ppm	-0.0032 ppm	-0.0037 ppm
Concentration per Run 2	86.8690 ppm	9.8306 ppm	0.0001 ppm	191.6407 ppm	0.0144 ppm	-0.0046 ppm	-0.0024 ppm
Concentration per Run 3	87.1974 ppm	9.7729 ppm	0.0000 ppm	192.6966 ppm	0.0146 ppm	-0.0048 ppm	-0.0037 ppm
Concentration RSD	0.3 %	0.5 %	80.3 %	2.1 %	1.4 %	20.3 %	22.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0016 ppm	17.1165 ppm	0.0032 ppm	3.3228 ppm	0.0211 ppm	-0.0086 ppm	0.0157 ppm
Concentration per Run 1	-0.0022 ppm	17.1139 ppm	0.0037 ppm	3.3044 ppm	0.0210 ppm	-0.0084 ppm	0.0157 ppm
Concentration per Run 2	-0.0011 ppm	17.1516 ppm	0.0028 ppm	3.3545 ppm	0.0209 ppm	-0.0085 ppm	0.0159 ppm
Concentration per Run 3	-0.0016 ppm	17.0841 ppm	0.0033 ppm	3.3094 ppm	0.0213 ppm	-0.0088 ppm	0.0154 ppm
Concentration RSD	33.9 %	0.2 %	12.8 %	0.8 %	1.0 %	2.3 %	1.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0816 ppm	101.9910 %	90.3210 %	84.2060 %	96.4983 %	61.8760 %	85.8569 %
Concentration per Run 1	0.0819 ppm	102.3327 %	90.3454 %	84.4804 %	97.6107 %	61.9998 %	85.8993 %
Concentration per Run 2	0.0813 ppm	101.8876 %	90.1276 %	83.9071 %	96.0992 %	61.6612 %	85.9441 %
Concentration per Run 3	0.0816 ppm	101.7527 %	90.4901 %	84.2305 %	95.7852 %	61.9671 %	85.7272 %
Concentration RSD	0.4 %	0.3 %	0.2 %	0.3 %	1.0 %	0.3 %	0.1 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2452544-03 WG1975268
Analysis started at: 9/27/2024 5:49:39 PM
Comments <Comment>
Rack: 1
Vial: 49

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0027 ppm	0.1200 ppm	0.0295 ppm	0.3068 ppm	14.0682 ppm	0.0002 ppm	553.9227 ppm
Concentration per Run 1	0.0027 ppm	0.1184 ppm	0.0287 ppm	0.3072 ppm	14.2109 ppm	0.0002 ppm	553.9038 ppm
Concentration per Run 2	0.0029 ppm	0.1218 ppm	0.0303 ppm	0.3068 ppm	13.9604 ppm	0.0002 ppm	556.2082 ppm
Concentration per Run 3	0.0026 ppm	0.1198 ppm	0.0296 ppm	0.3065 ppm	14.0332 ppm	0.0002 ppm	551.6561 ppm
Concentration RSD	5.4 %	1.4 %	2.7 %	0.1 %	0.9 %	6.2 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0067 ppm	0.1356 ppm	0.0142 ppm	0.0905 ppm	145.2339 ppm	19.6851 ppm	0.0871 ppm
Concentration per Run 1	-0.0067 ppm	0.1356 ppm	0.0142 ppm	0.0906 ppm	145.0907 ppm	19.5825 ppm	0.0861 ppm
Concentration per Run 2	-0.0067 ppm	0.1356 ppm	0.0141 ppm	0.0904 ppm	145.2366 ppm	19.8158 ppm	0.0879 ppm
Concentration per Run 3	-0.0067 ppm	0.1355 ppm	0.0142 ppm	0.0904 ppm	145.3745 ppm	19.6571 ppm	0.0872 ppm
Concentration RSD	0.3 %	0.1 %	0.3 %	0.1 %	0.1 %	0.6 %	1.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	138.9896 ppm	72.2583 [SIC 30]	-0.0008 ppm	180.6351 ppm	0.0765 ppm	0.0034 ppm	-0.0063 ppm
Concentration per Run 1	139.6806 ppm	73.1472 ppm	-0.0010 ppm	182.3441 ppm	0.0763 ppm	0.0027 ppm	-0.0052 ppm
Concentration per Run 2	137.4625 ppm	72.0020 ppm	-0.0006 ppm	182.4490 ppm	0.0767 ppm	0.0028 ppm	-0.0061 ppm
Concentration per Run 3	139.8258 ppm	71.6258 ppm	-0.0009 ppm	177.1124 ppm	0.0765 ppm	0.0046 ppm	-0.0076 ppm
Concentration RSD	1.0 %	1.1 %	27.8 %	1.7 %	0.2 %	31.7 %	19.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0224 ppm	26.6599 [SIC 50]	0.0103 ppm	6.6692 ppm	0.0141 ppm	-0.0393 ppm	0.0074 ppm
Concentration per Run 1	-0.0226 ppm	26.6605 ppm	0.0102 ppm	6.7259 ppm	0.0140 ppm	-0.0399 ppm	0.0095 ppm
Concentration per Run 2	-0.0181 ppm	26.6467 ppm	0.0107 ppm	6.6632 ppm	0.0141 ppm	-0.0403 ppm	0.0073 ppm
Concentration per Run 3	-0.0265 ppm	26.6725 ppm	0.0100 ppm	6.6187 ppm	0.0142 ppm	-0.0377 ppm	0.0054 ppm
Concentration RSD	18.6 %	0.0 %	3.7 %	0.8 %	0.8 %	3.6 %	27.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0130 ppm	100.9494 %	84.1103 %	74.3489 %	93.8021 %	49.9605 %	78.8882 %
Concentration per Run 1	0.0129 ppm	101.6824 %	84.1711 %	74.3628 %	94.0856 %	49.9642 %	79.0809 %
Concentration per Run 2	0.0133 ppm	100.8149 %	84.0931 %	74.3467 %	93.4050 %	50.0071 %	78.5114 %
Concentration per Run 3	0.0129 ppm	100.3509 %	84.0669 %	74.3374 %	93.9156 %	49.9103 %	79.0723 %
Concentration RSD	1.6 %	0.7 %	0.1 %	0.0 %	0.4 %	0.1 %	0.4 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2452544-04 WG1975268
Analysis started at: 9/27/2024 5:56:53 PM
Comments <Comment>
Rack: 1
Vial: 50

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.4478 ppm	0.0112 ppm	0.5206 ppm	1.2215 ppm	-0.0001 ppm	244.5907 ppm
Concentration per Run 1	0.0007 ppm	0.4457 ppm	0.0117 ppm	0.5231 ppm	1.2078 ppm	-0.0001 ppm	240.5349 ppm
Concentration per Run 2	0.0001 ppm	0.4472 ppm	0.0100 ppm	0.5177 ppm	1.2274 ppm	-0.0001 ppm	246.6303 ppm
Concentration per Run 3	0.0005 ppm	0.4507 ppm	0.0120 ppm	0.5212 ppm	1.2295 ppm	-0.0001 ppm	246.6070 ppm
Concentration RSD	63.9 %	0.6 %	9.8 %	0.5 %	1.0 %	15.8 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0021 ppm	0.0036 ppm	0.0026 ppm	0.0360 ppm	24.6339 ppm	22.4431 ppm	0.1014 ppm
Concentration per Run 1	-0.0021 ppm	0.0036 ppm	0.0025 ppm	0.0368 ppm	24.3398 ppm	22.0855 ppm	0.1005 ppm
Concentration per Run 2	-0.0020 ppm	0.0037 ppm	0.0027 ppm	0.0355 ppm	24.7329 ppm	22.6354 ppm	0.1016 ppm
Concentration per Run 3	-0.0021 ppm	0.0036 ppm	0.0026 ppm	0.0358 ppm	24.8292 ppm	22.6084 ppm	0.1021 ppm
Concentration RSD	2.3 %	1.2 %	4.7 %	1.8 %	1.1 %	1.4 %	0.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	31.1360 ppm	4.6395 ppm	0.0022 ppm	343.5589 [SIC LDR]	0.0053 ppm	0.0014 ppm	0.0030 ppm
Concentration per Run 1	31.0091 ppm	4.5848 ppm	0.0021 ppm	339.8164 ppm	0.0055 ppm	0.0013 ppm	0.0030 ppm
Concentration per Run 2	31.2172 ppm	4.6582 ppm	0.0022 ppm	347.4127 ppm	0.0053 ppm	0.0013 ppm	0.0024 ppm
Concentration per Run 3	31.1818 ppm	4.6754 ppm	0.0023 ppm	343.4475 ppm	0.0052 ppm	0.0016 ppm	0.0034 ppm
Concentration RSD	0.4 %	1.0 %	4.7 %	1.1 %	2.8 %	11.3 %	16.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0010 ppm	19.8813 ppm	0.0006 ppm	2.9180 ppm	0.0069 ppm	-0.0019 ppm	0.0088 ppm
Concentration per Run 1	-0.0014 ppm	19.9355 ppm	0.0004 ppm	2.8524 ppm	0.0068 ppm	-0.0015 ppm	0.0090 ppm
Concentration per Run 2	-0.0002 ppm	19.7711 ppm	0.0008 ppm	2.9426 ppm	0.0071 ppm	-0.0030 ppm	0.0087 ppm
Concentration per Run 3	-0.0014 ppm	19.9373 ppm	0.0005 ppm	2.9591 ppm	0.0069 ppm	-0.0012 ppm	0.0088 ppm
Concentration RSD	72.4 %	0.5 %	39.2 %	2.0 %	2.4 %	49.9 %	1.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0263 ppm	98.2683 %	85.8635 %	80.7899 %	96.5369 %	61.9174 %	84.1877 %
Concentration per Run 1	0.0265 ppm	98.9677 %	85.8733 %	80.8135 %	98.3176 %	61.8886 %	83.9070 %
Concentration per Run 2	0.0262 ppm	97.7703 %	85.9228 %	81.1480 %	95.8713 %	62.2552 %	84.3059 %
Concentration per Run 3	0.0263 ppm	98.0669 %	85.7944 %	80.4082 %	95.4220 %	61.6084 %	84.3500 %
Concentration RSD	0.6 %	0.6 %	0.1 %	0.5 %	1.6 %	0.5 %	0.3 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2453514-01 WG1975268
Analysis started at: 9/27/2024 6:03:35 PM
Comments <Comment>
Rack: 1
Vial: 51

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0026 ppm	0.0094 ppm	0.2179 ppm	0.0499 ppm	0.0000 ppm	28.1731 ppm
Concentration per Run 1	0.0003 ppm	0.0038 ppm	0.0092 ppm	0.2172 ppm	0.0485 ppm	0.0000 ppm	27.6129 ppm
Concentration per Run 2	0.0003 ppm	0.0028 ppm	0.0106 ppm	0.2177 ppm	0.0502 ppm	0.0000 ppm	28.5011 ppm
Concentration per Run 3	0.0000 ppm	0.0012 ppm	0.0082 ppm	0.2189 ppm	0.0509 ppm	0.0000 ppm	28.4055 ppm
Concentration RSD	79.3 %	50.0 %	13.1 %	0.4 %	2.4 %	93.8 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	-0.0003 ppm	0.0004 ppm	0.0006 ppm	2.8065 ppm	4.6996 ppm	0.0395 ppm
Concentration per Run 1	-0.0002 ppm	-0.0001 ppm	0.0005 ppm	0.0006 ppm	2.7569 ppm	4.6287 ppm	0.0391 ppm
Concentration per Run 2	-0.0002 ppm	-0.0003 ppm	0.0004 ppm	0.0006 ppm	2.8268 ppm	4.6712 ppm	0.0392 ppm
Concentration per Run 3	-0.0002 ppm	-0.0003 ppm	0.0005 ppm	0.0007 ppm	2.8357 ppm	4.7991 ppm	0.0403 ppm
Concentration RSD	8.3 %	48.3 %	20.3 %	5.1 %	1.5 %	1.9 %	1.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.9614 ppm	1.1539 ppm	0.0005 ppm	19.7074 ppm	-0.0007 ppm	-0.0024 ppm	-0.0001 ppm
Concentration per Run 1	3.9593 ppm	1.1311 ppm	0.0005 ppm	19.4587 ppm	-0.0009 ppm	-0.0026 ppm	0.0010 ppm
Concentration per Run 2	3.9591 ppm	1.1668 ppm	0.0005 ppm	19.5912 ppm	-0.0007 ppm	-0.0022 ppm	-0.0004 ppm
Concentration per Run 3	3.9658 ppm	1.1639 ppm	0.0005 ppm	20.0723 ppm	-0.0006 ppm	-0.0024 ppm	-0.0009 ppm
Concentration RSD	0.1 %	1.7 %	6.4 %	1.6 %	21.3 %	7.5 %	1,149.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	6.0840 ppm	0.0002 ppm	0.3569 ppm	-0.0001 ppm	-0.0002 ppm	0.0010 ppm
Concentration per Run 1	-0.0014 ppm	6.0866 ppm	0.0001 ppm	0.3501 ppm	0.0000 ppm	-0.0003 ppm	0.0011 ppm
Concentration per Run 2	-0.0005 ppm	6.0798 ppm	0.0001 ppm	0.3585 ppm	-0.0003 ppm	0.0001 ppm	0.0009 ppm
Concentration per Run 3	0.0003 ppm	6.0857 ppm	0.0004 ppm	0.3620 ppm	0.0000 ppm	-0.0003 ppm	0.0010 ppm
Concentration RSD	162.1 %	0.1 %	109.5 %	1.7 %	165.2 %	152.0 %	7.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1094 ppm	106.5609 %	96.0473 %	89.7381 %	105.4134 %	81.4104 %	94.7319 %
Concentration per Run 1	0.1166 ppm	108.0573 %	96.2609 %	89.8440 %	107.7835 %	81.3288 %	95.1465 %
Concentration per Run 2	0.1061 ppm	105.9251 %	95.9743 %	89.7200 %	104.4624 %	81.4959 %	94.7272 %
Concentration per Run 3	0.1054 ppm	105.7004 %	95.9066 %	89.6504 %	103.9942 %	81.4064 %	94.3220 %
Concentration RSD	5.7 %	1.2 %	0.2 %	0.1 %	2.0 %	0.1 %	0.4 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2453803-01 WG1975268
Analysis started at: 9/27/2024 6:09:51 PM
Comments <Comment>
Rack: 1
Vial: 52

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.2519 ppm	0.0054 ppm	8.4141 ppm	0.0777 ppm	-0.0001 ppm	111.5180 ppm
Concentration per Run 1	0.0001 ppm	0.2525 ppm	0.0058 ppm	8.4018 ppm	0.0776 ppm	-0.0001 ppm	111.4230 ppm
Concentration per Run 2	0.0002 ppm	0.2491 ppm	0.0033 ppm	8.4000 ppm	0.0779 ppm	-0.0001 ppm	111.8703 ppm
Concentration per Run 3	0.0000 ppm	0.2542 ppm	0.0071 ppm	8.4406 ppm	0.0776 ppm	-0.0001 ppm	111.2608 ppm
Concentration RSD	83.0 %	1.0 %	35.7 %	0.3 %	0.2 %	13.0 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0013 ppm	0.0425 ppm	0.0055 ppm	0.0153 ppm	93.6990 ppm	42.3240 ppm	-0.0055 ppm
Concentration per Run 1	-0.0014 ppm	0.0425 ppm	0.0054 ppm	0.0153 ppm	93.6787 ppm	42.3461 ppm	-0.0062 ppm
Concentration per Run 2	-0.0013 ppm	0.0424 ppm	0.0056 ppm	0.0153 ppm	93.6516 ppm	41.8870 ppm	-0.0046 ppm
Concentration per Run 3	-0.0014 ppm	0.0424 ppm	0.0056 ppm	0.0153 ppm	93.7668 ppm	42.7387 ppm	-0.0057 ppm
Concentration RSD	4.1 %	0.1 %	1.8 %	0.2 %	0.1 %	1.0 %	14.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.6884 ppm	0.3043 ppm	0.0084 ppm	664.1573 [SIC LDR]	0.0441 ppm	-0.0003 ppm	-0.0041 ppm
Concentration per Run 1	10.6949 ppm	0.3040 ppm	0.0084 ppm	677.9137 ppm	0.0442 ppm	-0.0005 ppm	-0.0032 ppm
Concentration per Run 2	10.6727 ppm	0.3047 ppm	0.0084 ppm	649.6398 ppm	0.0444 ppm	0.0004 ppm	-0.0041 ppm
Concentration per Run 3	10.6977 ppm	0.3041 ppm	0.0083 ppm	664.9185 ppm	0.0437 ppm	-0.0008 ppm	-0.0049 ppm
Concentration RSD	0.1 %	0.1 %	0.6 %	2.1 %	0.8 %	200.3 %	20.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0014 ppm	4.3931 ppm	0.0032 ppm	0.3112 ppm	0.1168 ppm	-0.0082 ppm	0.1872 ppm
Concentration per Run 1	-0.0020 ppm	4.3792 ppm	0.0035 ppm	0.3107 ppm	0.1159 ppm	-0.0076 ppm	0.1872 ppm
Concentration per Run 2	-0.0029 ppm	4.3975 ppm	0.0033 ppm	0.3106 ppm	0.1175 ppm	-0.0091 ppm	0.1880 ppm
Concentration per Run 3	0.0008 ppm	4.4026 ppm	0.0029 ppm	0.3124 ppm	0.1168 ppm	-0.0079 ppm	0.1864 ppm
Concentration RSD	144.3 %	0.3 %	10.2 %	0.3 %	0.7 %	9.8 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0227 ppm	95.9381 %	80.9893 %	77.0240 %	93.3190 %	56.2506 %	79.9127 %
Concentration per Run 1	0.0226 ppm	95.5478 %	81.0792 %	77.3712 %	94.0861 %	56.5709 %	80.1355 %
Concentration per Run 2	0.0230 ppm	95.8098 %	80.9399 %	77.0796 %	92.8519 %	56.1218 %	79.7424 %
Concentration per Run 3	0.0227 ppm	96.4567 %	80.9487 %	76.6214 %	93.0191 %	56.0591 %	79.8601 %
Concentration RSD	0.9 %	0.5 %	0.1 %	0.5 %	0.7 %	0.5 %	0.3 %

ICP DataTrace 4

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LabBook: WG1977137_09272024T4.imexp

Sample: L2453810-01 WG1975268
Analysis started at: 9/27/2024 6:16:17 PM
Comments <Comment>
Rack: 1
Vial: 53

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.4351 ppm	-0.0007 ppm	0.0652 ppm	0.0129 ppm	0.0000 ppm	28.5760 ppm
Concentration per Run 1	0.0002 ppm	0.4279 ppm	-0.0006 ppm	0.0662 ppm	0.0126 ppm	-0.0001 ppm	27.7563 ppm
Concentration per Run 2	0.0001 ppm	0.4394 ppm	-0.0002 ppm	0.0653 ppm	0.0130 ppm	0.0000 ppm	28.6995 ppm
Concentration per Run 3	0.0002 ppm	0.4378 ppm	-0.0013 ppm	0.0640 ppm	0.0131 ppm	0.0000 ppm	29.2721 ppm
Concentration RSD	44.6 %	1.4 %	79.0 %	1.7 %	2.0 %	54.5 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0003 ppm	0.0001 ppm	0.0005 ppm	0.0039 ppm	0.1090 ppm	1.9423 ppm	0.0062 ppm
Concentration per Run 1	-0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0038 ppm	0.1069 ppm	1.9080 ppm	0.0060 ppm
Concentration per Run 2	-0.0003 ppm	0.0001 ppm	0.0004 ppm	0.0039 ppm	0.1090 ppm	1.9569 ppm	0.0065 ppm
Concentration per Run 3	-0.0003 ppm	0.0001 ppm	0.0005 ppm	0.0039 ppm	0.1112 ppm	1.9621 ppm	0.0061 ppm
Concentration RSD	0.7 %	82.7 %	18.3 %	2.1 %	2.0 %	1.5 %	3.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.1088 ppm	0.0134 ppm	0.0054 ppm	46.4649 ppm	0.0027 ppm	-0.0008 ppm	0.0004 ppm
Concentration per Run 1	9.0968 ppm	0.0130 ppm	0.0055 ppm	45.6572 ppm	0.0028 ppm	-0.0005 ppm	0.0003 ppm
Concentration per Run 2	9.1180 ppm	0.0137 ppm	0.0053 ppm	46.8508 ppm	0.0028 ppm	-0.0010 ppm	0.0008 ppm
Concentration per Run 3	9.1116 ppm	0.0136 ppm	0.0056 ppm	46.8866 ppm	0.0023 ppm	-0.0010 ppm	0.0003 ppm
Concentration RSD	0.1 %	2.8 %	2.5 %	1.5 %	10.3 %	37.0 %	63.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	3.1640 ppm	-0.0003 ppm	0.2998 ppm	0.0044 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0002 ppm	3.1713 ppm	-0.0002 ppm	0.2930 ppm	0.0045 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 2	0.0003 ppm	3.1571 ppm	-0.0003 ppm	0.3014 ppm	0.0041 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0006 ppm	3.1636 ppm	-0.0003 ppm	0.3050 ppm	0.0047 ppm	0.0000 ppm	0.0002 ppm
Concentration RSD	1,746.9 %	0.2 %	15.3 %	2.1 %	6.5 %	98.9 %	44.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0024 ppm	104.3534 %	94.3150 %	88.3367 %	102.6374 %	79.1413 %	92.9883 %
Concentration per Run 1	0.0025 ppm	106.2846 %	94.3131 %	88.2389 %	105.6390 %	79.1123 %	93.4434 %
Concentration per Run 2	0.0024 ppm	104.0422 %	94.5875 %	88.3440 %	102.4128 %	79.3149 %	92.8102 %
Concentration per Run 3	0.0025 ppm	102.7335 %	94.0443 %	88.4272 %	99.8606 %	78.9966 %	92.7114 %
Concentration RSD	2.9 %	1.7 %	0.3 %	0.1 %	2.8 %	0.2 %	0.4 %

ICP DataTrace 4

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LabBook: WG1977137_09272024T4.imexp

Sample: L2453812-01 WG1975268
Analysis started at: 9/27/2024 6:22:37 PM
Comments <Comment>
Rack: 1
Vial: 54

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0013 ppm	-0.0009 ppm	0.1120 ppm	0.0203 ppm	-0.0001 ppm	77.9616 ppm
Concentration per Run 1	0.0002 ppm	0.0026 ppm	0.0004 ppm	0.1124 ppm	0.0201 ppm	-0.0001 ppm	77.8434 ppm
Concentration per Run 2	0.0003 ppm	0.0034 ppm	-0.0002 ppm	0.1115 ppm	0.0200 ppm	-0.0001 ppm	76.4936 ppm
Concentration per Run 3	0.0003 ppm	-0.0021 ppm	-0.0028 ppm	0.1123 ppm	0.0209 ppm	-0.0001 ppm	79.5479 ppm
Concentration RSD	26.1 %	228.8 %	196.3 %	0.5 %	2.6 %	24.7 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0007 ppm	-0.0002 ppm	0.0005 ppm	0.0028 ppm	0.2098 ppm	9.9329 ppm	-0.0009 ppm
Concentration per Run 1	-0.0007 ppm	-0.0002 ppm	0.0004 ppm	0.0028 ppm	0.2086 ppm	9.8152 ppm	-0.0010 ppm
Concentration per Run 2	-0.0007 ppm	-0.0004 ppm	0.0005 ppm	0.0029 ppm	0.2053 ppm	9.8027 ppm	-0.0008 ppm
Concentration per Run 3	-0.0007 ppm	-0.0001 ppm	0.0005 ppm	0.0029 ppm	0.2154 ppm	10.1809 ppm	-0.0007 ppm
Concentration RSD	5.9 %	60.1 %	11.7 %	1.5 %	2.5 %	2.2 %	18.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.4577 ppm	0.0922 ppm	0.0002 ppm	109.3530 ppm	-0.0002 ppm	-0.0020 ppm	0.0010 ppm
Concentration per Run 1	4.4332 ppm	0.0916 ppm	0.0002 ppm	106.6863 ppm	-0.0001 ppm	-0.0022 ppm	0.0012 ppm
Concentration per Run 2	4.4792 ppm	0.0906 ppm	0.0003 ppm	109.8638 ppm	-0.0003 ppm	-0.0021 ppm	0.0007 ppm
Concentration per Run 3	4.4607 ppm	0.0944 ppm	0.0001 ppm	111.5087 ppm	-0.0002 ppm	-0.0016 ppm	0.0012 ppm
Concentration RSD	0.5 %	2.1 %	41.5 %	2.2 %	30.6 %	15.7 %	30.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	4.8491 ppm	-0.0001 ppm	0.1740 ppm	-0.0004 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0012 ppm	4.8500 ppm	-0.0002 ppm	0.1723 ppm	-0.0003 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 2	-0.0009 ppm	4.8495 ppm	-0.0002 ppm	0.1711 ppm	-0.0004 ppm	0.0010 ppm	-0.0002 ppm
Concentration per Run 3	-0.0002 ppm	4.8477 ppm	0.0000 ppm	0.1784 ppm	-0.0006 ppm	0.0000 ppm	-0.0001 ppm
Concentration RSD	12,413.9 %	0.0 %	77.9 %	2.3 %	42.1 %	1,580.8 %	99.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0185 ppm	102.6372 %	91.2966 %	85.2185 %	100.6308 %	72.1175 %	89.8619 %
Concentration per Run 1	0.0185 ppm	102.1355 %	91.3741 %	85.3481 %	101.6486 %	72.1779 %	90.0166 %
Concentration per Run 2	0.0187 ppm	104.3234 %	91.1142 %	85.4243 %	102.2975 %	72.2125 %	89.9032 %
Concentration per Run 3	0.0183 ppm	101.4529 %	91.4015 %	84.8830 %	97.9464 %	71.9621 %	89.6661 %
Concentration RSD	1.0 %	1.5 %	0.2 %	0.3 %	2.3 %	0.2 %	0.2 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: xL2453897-01 WG1975268
Analysis started at: 9/27/2024 6:29:04 PM
Comments <Comment>
Rack: 1
Vial: 55

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	N/A	0.0012 ppm	0.0079 ppm	0.0227 ppm	-0.0001 ppm	86.2635 ppm
Concentration per Run 1	0.0006 ppm	N/A	-0.0001 ppm	0.0079 ppm	0.0221 ppm	-0.0001 ppm	84.0029 ppm
Concentration per Run 2	0.0004 ppm	N/A	0.0013 ppm	0.0078 ppm	0.0227 ppm	-0.0001 ppm	86.8656 ppm
Concentration per Run 3	0.0004 ppm	N/A	0.0023 ppm	0.0079 ppm	0.0232 ppm	-0.0001 ppm	87.9219 ppm
Concentration RSD	22.0 %	N/A	102.4 %	1.1 %	2.5 %	5.8 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0009 ppm	0.0021 ppm	0.0051 ppm	0.0162 ppm	0.4623 ppm	32.4967 ppm	N/A
Concentration per Run 1	-0.0009 ppm	0.0022 ppm	0.0052 ppm	0.0162 ppm	0.4497 ppm	31.6524 ppm	N/A
Concentration per Run 2	-0.0009 ppm	0.0020 ppm	0.0049 ppm	0.0161 ppm	0.4664 ppm	32.6204 ppm	N/A
Concentration per Run 3	-0.0008 ppm	0.0021 ppm	0.0053 ppm	0.0162 ppm	0.4707 ppm	33.2173 ppm	N/A
Concentration RSD	4.5 %	5.1 %	4.2 %	0.4 %	2.4 %	2.4 %	N/A

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	7.5632 ppm	0.0575 ppm	0.0044 ppm	N/A	0.0092 ppm	-0.0047 ppm	0.0016 ppm
Concentration per Run 1	7.5419 ppm	0.0557 ppm	0.0046 ppm	N/A	0.0092 ppm	-0.0044 ppm	0.0009 ppm
Concentration per Run 2	7.5630 ppm	0.0580 ppm	0.0043 ppm	N/A	0.0095 ppm	-0.0054 ppm	0.0011 ppm
Concentration per Run 3	7.5847 ppm	0.0589 ppm	0.0044 ppm	N/A	0.0089 ppm	-0.0044 ppm	0.0029 ppm
Concentration RSD	0.3 %	2.9 %	3.8 %	N/A	2.8 %	12.0 %	70.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0002 ppm	12.7586 ppm	-0.0016 ppm	0.5371 ppm	0.0000 ppm	-0.0012 ppm	0.0169 ppm
Concentration per Run 1	0.0003 ppm	12.6824 ppm	-0.0012 ppm	0.5241 ppm	-0.0001 ppm	-0.0011 ppm	0.0167 ppm
Concentration per Run 2	0.0016 ppm	12.7548 ppm	-0.0017 ppm	0.5412 ppm	-0.0001 ppm	0.0005 ppm	0.0171 ppm
Concentration per Run 3	-0.0024 ppm	12.8388 ppm	-0.0019 ppm	0.5460 ppm	0.0000 ppm	-0.0029 ppm	0.0168 ppm
Concentration RSD	1,166.2 %	0.6 %	24.1 %	2.1 %	109.3 %	140.6 %	1.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0137 ppm	93.4057 %	75.5893 %	74.8915 %	92.4590 %	**51.1090 %**	73.7676 %
Concentration per Run 1	0.0137 ppm	94.3465 %	75.5123 %	75.2002 %	95.2404 %	51.5546 %	73.8523 %
Concentration per Run 2	0.0137 ppm	93.3373 %	75.6016 %	75.1523 %	91.8231 %	51.1962 %	73.7941 %
Concentration per Run 3	0.0137 ppm	92.5334 %	75.6538 %	74.3220 %	90.3136 %	50.5761 %	73.6564 %
Concentration RSD	0.3 %	1.0 %	0.1 %	0.7 %	2.7 %	1.0 %	0.1 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: CCV
Analysis started at: 9/27/2024 6:35:28 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4858 ppm	0.5005 ppm	0.5049 ppm	0.5200 ppm	0.5056 ppm	0.4933 ppm	0.4738 ppm
Concentration per Run 1	0.4856 ppm	0.4829 ppm	0.5038 ppm	0.5206 ppm	0.4860 ppm	0.4752 ppm	0.4574 ppm
Concentration per Run 2	0.4893 ppm	0.5070 ppm	0.5027 ppm	0.5189 ppm	0.5127 ppm	0.5002 ppm	0.4835 ppm
Concentration per Run 3	0.4824 ppm	0.5117 ppm	0.5082 ppm	0.5204 ppm	0.5182 ppm	0.5045 ppm	0.4804 ppm
Recovery Percentage 1	97.154 %	100.103 %	100.979 %	103.991 %	101.126 %	98.664 %	94.752 %
Concentration RSD	0.7 %	3.1 %	0.6 %	0.2 %	3.4 %	3.2 %	3.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4855 ppm	0.4944 ppm	0.4755 ppm	0.4919 ppm	0.4856 ppm	5.3380 ppm	0.5158 ppm
Concentration per Run 1	0.4851 ppm	0.4936 ppm	0.4772 ppm	0.4921 ppm	0.4677 ppm	5.0893 ppm	0.4928 ppm
Concentration per Run 2	0.4862 ppm	0.4941 ppm	0.4788 ppm	0.4930 ppm	0.4941 ppm	5.3875 ppm	0.5200 ppm
Concentration per Run 3	0.4853 ppm	0.4954 ppm	0.4704 ppm	0.4906 ppm	0.4950 ppm	5.5372 ppm	0.5345 ppm
Recovery Percentage 1	97.106 %	98.876 %	95.099 %	98.387 %	97.124 %	106.759 %	103.151 %
Concentration RSD	0.1 %	0.2 %	0.9 %	0.2 %	3.2 %	4.3 %	4.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4817 ppm	0.4749 ppm	0.5101 ppm	9.3196 ppm	0.4952 ppm	0.4934 ppm	0.5035 ppm
Concentration per Run 1	0.4842 ppm	0.4597 ppm	0.5107 ppm	8.8672 ppm	0.4941 ppm	0.4921 ppm	0.5034 ppm
Concentration per Run 2	0.4866 ppm	0.4820 ppm	0.5093 ppm	9.3861 ppm	0.4957 ppm	0.4929 ppm	0.5033 ppm
Concentration per Run 3	0.4742 ppm	0.4830 ppm	0.5102 ppm	9.7053 ppm	0.4958 ppm	0.4953 ppm	0.5039 ppm
Recovery Percentage 1	96.332 %	94.975 %	102.011 %	93.196 %	99.042 %	98.687 %	100.706 %
Concentration RSD	1.4 %	2.8 %	0.1 %	4.5 %	0.2 %	0.3 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5151 ppm	5.5614 ppm	0.4903 ppm	0.4846 ppm	0.4973 ppm	0.5138 ppm	0.4847 ppm
Concentration per Run 1	0.5164 ppm	5.5578 ppm	0.4903 ppm	0.4662 ppm	0.4983 ppm	0.5141 ppm	0.4865 ppm
Concentration per Run 2	0.5141 ppm	5.5519 ppm	0.4897 ppm	0.4908 ppm	0.4999 ppm	0.5130 ppm	0.4882 ppm
Concentration per Run 3	0.5149 ppm	5.5746 ppm	0.4910 ppm	0.4966 ppm	0.4936 ppm	0.5144 ppm	0.4795 ppm
Recovery Percentage 1	103.027 %	105.932 %	98.066 %	96.911 %	99.457 %	102.762 %	96.948 %
Concentration RSD	0.2 %	0.2 %	0.1 %	3.3 %	0.7 %	0.1 %	0.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4598 ppm	104.5660 %	98.5421 %	92.4257 %	102.9299 %	84.5623 %	97.3300 %
Concentration per Run 1	0.4581 ppm	105.7576 %	98.4324 %	92.3747 %	106.4020 %	84.6497 %	97.2482 %
Concentration per Run 2	0.4619 ppm	103.6024 %	98.3263 %	92.7373 %	101.2758 %	84.7554 %	97.0168 %
Concentration per Run 3	0.4595 ppm	104.3381 %	98.8677 %	92.1651 %	101.1121 %	84.2819 %	97.7252 %
Recovery Percentage 1	91.969 %						
Concentration RSD	0.4 %	1.0 %	0.3 %	0.3 %	2.9 %	0.3 %	0.4 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: CCB
Analysis started at: 9/27/2024 6:41:32 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0038 ppm	0.0003 ppm	0.0025 ppm	-0.0001 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 1	0.0002 ppm	-0.0046 ppm	0.0007 ppm	0.0027 ppm	0.0000 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 2	0.0000 ppm	-0.0022 ppm	0.0002 ppm	0.0024 ppm	-0.0001 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 3	0.0002 ppm	-0.0046 ppm	-0.0001 ppm	0.0024 ppm	-0.0001 ppm	0.0000 ppm	0.0019 ppm
Recovery Percentage 1	1.739 %	-3.811 %	5.085 %	8.365 %	-0.659 %	-0.075 %	1.917 %
Concentration RSD	86.4 %	36.0 %	160.3 %	7.7 %	52.2 %	377.9 %	40.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0361 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0009 ppm	0.0402 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0352 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0006 ppm	0.0328 ppm	0.0005 ppm
Recovery Percentage 1	-0.847 %	-0.114 %	0.897 %	-0.327 %	0.565 %	1.443 %	4.387 %
Concentration RSD	23.8 %	341.9 %	121.7 %	228.1 %	280.5 %	10.4 %	57.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0009 ppm	0.0000 ppm	0.0002 ppm	0.1078 ppm	0.0000 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 1	0.0014 ppm	0.0002 ppm	0.0001 ppm	0.1093 ppm	-0.0002 ppm	-0.0006 ppm	-0.0003 ppm
Concentration per Run 2	0.0004 ppm	0.0000 ppm	0.0003 ppm	0.1070 ppm	0.0002 ppm	-0.0002 ppm	-0.0006 ppm
Concentration per Run 3	0.0011 ppm	-0.0001 ppm	0.0001 ppm	0.1072 ppm	0.0000 ppm	-0.0005 ppm	0.0000 ppm
Recovery Percentage 1	0.944 %	0.423 %	0.340 %	5.391 %	0.053 %	-4.432 %	-0.614 %
Concentration RSD	56.2 %	322.1 %	57.4 %	1.2 %	1,433.6 %	44.5 %	96.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0003 ppm	-0.0004 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	-0.0012 ppm	-0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 2	0.0017 ppm	-0.0001 ppm	0.0007 ppm	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 3	0.0003 ppm	-0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm
Recovery Percentage 1	2.506 %	-0.078 %	0.725 %	0.141 %	2.640 %	0.081 %	-1.054 %
Concentration RSD	579.2 %	78.3 %	76.3 %	53.3 %	65.7 %	1,659.6 %	53.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	104.9758 %	98.9352 %	94.0894 %	102.2669 %	93.2421 %	97.0989 %
Concentration per Run 1	0.0002 ppm	105.9692 %	99.5211 %	94.2469 %	104.8357 %	93.5049 %	98.1125 %
Concentration per Run 2	0.0002 ppm	104.2508 %	97.6234 %	94.5560 %	101.8501 %	93.5845 %	95.7403 %
Concentration per Run 3	0.0002 ppm	104.7073 %	99.6610 %	93.4653 %	100.1150 %	92.6369 %	97.4439 %
Recovery Percentage 1	4.207 %						
Concentration RSD	13.6 %	0.8 %	1.2 %	0.6 %	2.3 %	0.6 %	1.3 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2453897-01D10 WG1975268
Analysis started at: 9/27/2024 6:57:34 PM
Comments <Comment>
Rack: 2
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0206 ppm	-0.0010 ppm	0.0021 ppm	0.0022 ppm	0.0000 ppm	9.0282 ppm
Concentration per Run 1	0.0000 ppm	0.0203 ppm	-0.0009 ppm	0.0021 ppm	0.0022 ppm	0.0000 ppm	8.8067 ppm
Concentration per Run 2	0.0001 ppm	0.0191 ppm	-0.0003 ppm	0.0018 ppm	0.0023 ppm	0.0000 ppm	9.1254 ppm
Concentration per Run 3	0.0002 ppm	0.0224 ppm	-0.0019 ppm	0.0022 ppm	0.0023 ppm	0.0000 ppm	9.1524 ppm
Concentration RSD	87.6 %	8.1 %	74.7 %	9.5 %	2.1 %	78.2 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0019 ppm	0.0485 ppm	3.2950 ppm	-0.0052 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0017 ppm	0.0475 ppm	3.1964 ppm	-0.0052 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0021 ppm	0.0479 ppm	3.3066 ppm	-0.0054 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0018 ppm	0.0502 ppm	3.3819 ppm	-0.0052 ppm
Concentration RSD	21.1 %	62.0 %	40.2 %	12.7 %	3.0 %	2.8 %	2.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.9206 ppm	0.0060 ppm	0.0005 ppm	241.1658 ppm	0.0003 ppm	-0.0005 ppm	-0.0004 ppm
Concentration per Run 1	0.9159 ppm	0.0058 ppm	0.0006 ppm	232.7719 ppm	0.0000 ppm	-0.0007 ppm	-0.0010 ppm
Concentration per Run 2	0.9231 ppm	0.0063 ppm	0.0005 ppm	246.9382 ppm	0.0002 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 3	0.9226 ppm	0.0061 ppm	0.0004 ppm	243.7874 ppm	0.0005 ppm	-0.0005 ppm	0.0001 ppm
Concentration RSD	0.4 %	4.5 %	22.2 %	3.1 %	97.4 %	32.7 %	134.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0007 ppm	1.0701 ppm	0.0001 ppm	0.0542 ppm	0.0001 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 1	0.0016 ppm	1.0639 ppm	0.0000 ppm	0.0528 ppm	0.0001 ppm	-0.0011 ppm	0.0014 ppm
Concentration per Run 2	-0.0015 ppm	1.0720 ppm	0.0000 ppm	0.0545 ppm	0.0001 ppm	0.0009 ppm	0.0016 ppm
Concentration per Run 3	-0.0023 ppm	1.0745 ppm	0.0003 ppm	0.0554 ppm	-0.0001 ppm	0.0001 ppm	0.0015 ppm
Concentration RSD	281.9 %	0.5 %	124.3 %	2.5 %	180.9 %	3,230.9 %	6.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0014 ppm	101.1575 %	91.2607 %	88.7932 %	99.6470 %	72.9186 %	90.4167 %
Concentration per Run 1	0.0014 ppm	101.4560 %	91.2105 %	88.9277 %	102.6766 %	73.2795 %	90.4276 %
Concentration per Run 2	0.0015 ppm	100.4349 %	91.1720 %	88.7325 %	98.5085 %	72.7515 %	90.4658 %
Concentration per Run 3	0.0014 ppm	101.5815 %	91.3997 %	88.7194 %	97.7559 %	72.7248 %	90.3569 %
Concentration RSD	3.1 %	0.6 %	0.1 %	0.1 %	2.7 %	0.4 %	0.1 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2452544-01D2 WG1975268
Analysis started at: 9/27/2024 7:04:04 PM
Comments Fe LDR & Cd & Tl sup
Rack: 1
Vial: 57

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.3461 ppm	0.0781 ppm	0.2141 ppm	6.5506 ppm	0.0003 ppm	412.1706 ppm
Concentration per Run 1	-0.0002 ppm	0.3437 ppm	0.0772 ppm	0.2144 ppm	6.4752 ppm	0.0003 ppm	413.1822 ppm
Concentration per Run 2	-0.0003 ppm	0.3543 ppm	0.0783 ppm	0.2136 ppm	6.7042 ppm	0.0003 ppm	416.5517 ppm
Concentration per Run 3	-0.0004 ppm	0.3404 ppm	0.0787 ppm	0.2144 ppm	6.4722 ppm	0.0003 ppm	406.7778 ppm
Concentration RSD	25.0 %	2.1 %	1.0 %	0.2 %	2.0 %	3.4 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0056 ppm	0.0064 ppm	0.0352 ppm	0.0257 ppm	258.6629 ppm	14.7325 ppm	0.0225 ppm
Concentration per Run 1	-0.0058 ppm	0.0062 ppm	0.0353 ppm	0.0260 ppm	257.2814 ppm	14.6701 ppm	0.0224 ppm
Concentration per Run 2	-0.0057 ppm	0.0068 ppm	0.0352 ppm	0.0258 ppm	261.5571 ppm	14.8298 ppm	0.0224 ppm
Concentration per Run 3	-0.0054 ppm	0.0063 ppm	0.0350 ppm	0.0253 ppm	257.1503 ppm	14.6975 ppm	0.0225 ppm
Concentration RSD	3.4 %	4.7 %	0.5 %	1.3 %	1.0 %	0.6 %	0.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	87.7869 ppm	5.1587 ppm	-0.0014 ppm	102.3913 ppm	0.0080 ppm	-0.0023 ppm	-0.0159 ppm
Concentration per Run 1	87.3957 ppm	5.1241 ppm	-0.0016 ppm	102.6915 ppm	0.0077 ppm	-0.0005 ppm	-0.0153 ppm
Concentration per Run 2	88.1935 ppm	5.2108 ppm	-0.0014 ppm	103.1654 ppm	0.0085 ppm	-0.0044 ppm	-0.0178 ppm
Concentration per Run 3	87.7714 ppm	5.1411 ppm	-0.0014 ppm	101.3171 ppm	0.0078 ppm	-0.0020 ppm	-0.0146 ppm
Concentration RSD	0.5 %	0.9 %	8.3 %	0.9 %	5.8 %	83.5 %	10.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0008 ppm	11.6374 ppm	0.0112 ppm	6.4863 ppm	0.0213 ppm	-0.0305 ppm	0.0140 ppm
Concentration per Run 1	0.0004 ppm	11.6629 ppm	0.0109 ppm	6.3646 ppm	0.0214 ppm	-0.0308 ppm	0.0141 ppm
Concentration per Run 2	0.0016 ppm	11.6648 ppm	0.0106 ppm	6.5645 ppm	0.0213 ppm	-0.0308 ppm	0.0139 ppm
Concentration per Run 3	0.0003 ppm	11.5845 ppm	0.0123 ppm	6.5296 ppm	0.0213 ppm	-0.0298 ppm	0.0141 ppm
Concentration RSD	89.7 %	0.4 %	8.2 %	1.6 %	0.3 %	1.9 %	0.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0011 ppm	98.2175 %	85.2635 %	75.7577 %	94.5243 %	53.9715 %	82.8648 %
Concentration per Run 1	0.0010 ppm	99.1164 %	85.4368 %	75.8063 %	95.7373 %	54.0603 %	82.9438 %
Concentration per Run 2	0.0011 ppm	98.0322 %	84.8372 %	75.8206 %	93.7091 %	53.7951 %	82.8028 %
Concentration per Run 3	0.0013 ppm	97.5040 %	85.5164 %	75.6462 %	94.1266 %	54.0591 %	82.8478 %
Concentration RSD	12.2 %	0.8 %	0.4 %	0.1 %	1.1 %	0.3 %	0.1 %

ICP DataTrace 4

9/27/2024 7:18:23 PM

LabBook: WG1977137_09272024T4.imexp

Sample: L2452544-03D2 WG1975268
Analysis started at: 9/27/2024 7:11:03 PM
Comments Se sup
Rack: 1
Vial: 58

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0016 ppm	0.0530 ppm	0.0163 ppm	0.1726 ppm	7.4308 ppm	0.0001 ppm	300.7918 ppm
Concentration per Run 1	0.0014 ppm	0.0542 ppm	0.0159 ppm	0.1725 ppm	7.3495 ppm	0.0001 ppm	300.0227 ppm
Concentration per Run 2	0.0017 ppm	0.0554 ppm	0.0163 ppm	0.1723 ppm	7.5226 ppm	0.0001 ppm	301.4687 ppm
Concentration per Run 3	0.0017 ppm	0.0494 ppm	0.0165 ppm	0.1732 ppm	7.4204 ppm	0.0001 ppm	300.8840 ppm
Concentration RSD	9.6 %	6.0 %	1.9 %	0.3 %	1.2 %	13.6 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0032 ppm	0.0672 ppm	0.0079 ppm	0.0462 ppm	79.1147 ppm	10.6410 ppm	0.0463 ppm
Concentration per Run 1	-0.0032 ppm	0.0675 ppm	0.0079 ppm	0.0463 ppm	78.5182 ppm	10.6333 ppm	0.0465 ppm
Concentration per Run 2	-0.0032 ppm	0.0671 ppm	0.0079 ppm	0.0463 ppm	79.9976 ppm	10.6023 ppm	0.0459 ppm
Concentration per Run 3	-0.0031 ppm	0.0669 ppm	0.0078 ppm	0.0460 ppm	78.8283 ppm	10.6874 ppm	0.0465 ppm
Concentration RSD	1.5 %	0.4 %	0.7 %	0.4 %	1.0 %	0.4 %	0.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	82.1621 ppm	39.9015 [SIC 30]	-0.0006 ppm	98.9003 ppm	0.0345 ppm	0.0007 ppm	-0.0021 ppm
Concentration per Run 1	82.3298 ppm	39.6025 ppm	-0.0005 ppm	95.7263 ppm	0.0346 ppm	0.0017 ppm	-0.0013 ppm
Concentration per Run 2	82.0134 ppm	40.4319 ppm	-0.0006 ppm	99.1423 ppm	0.0346 ppm	-0.0005 ppm	-0.0023 ppm
Concentration per Run 3	82.1429 ppm	39.6701 ppm	-0.0006 ppm	101.8323 ppm	0.0343 ppm	0.0010 ppm	-0.0027 ppm
Concentration RSD	0.2 %	1.2 %	3.7 %	3.1 %	0.4 %	155.0 %	35.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0122 ppm	12.9867 ppm	0.0054 ppm	3.4840 ppm	0.0078 ppm	-0.0190 ppm	0.0087 ppm
Concentration per Run 1	-0.0118 ppm	13.0051 ppm	0.0053 ppm	3.4387 ppm	0.0078 ppm	-0.0192 ppm	0.0090 ppm
Concentration per Run 2	-0.0135 ppm	13.0023 ppm	0.0048 ppm	3.5373 ppm	0.0079 ppm	-0.0193 ppm	0.0091 ppm
Concentration per Run 3	-0.0113 ppm	12.9528 ppm	0.0062 ppm	3.4761 ppm	0.0078 ppm	-0.0186 ppm	0.0080 ppm
Concentration RSD	9.6 %	0.2 %	12.5 %	1.4 %	0.6 %	2.0 %	7.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0064 ppm	100.5302 %	89.3366 %	81.5614 %	96.0847 %	60.4127 %	85.7472 %
Concentration per Run 1	0.0065 ppm	100.8248 %	89.4171 %	81.9379 %	97.1799 %	60.5654 %	85.6692 %
Concentration per Run 2	0.0063 ppm	100.3710 %	89.3491 %	81.3381 %	95.1419 %	60.2366 %	85.5809 %
Concentration per Run 3	0.0065 ppm	100.3948 %	89.2437 %	81.4082 %	95.9321 %	60.4361 %	85.9914 %
Concentration RSD	2.1 %	0.3 %	0.1 %	0.4 %	1.1 %	0.3 %	0.3 %

QC True Values: Trace 4,5,6,7

	Element	True Value (mg/L)
ICV/CCV	All	0.50
	K	5.00
	Na	10.00
	Si	5.25
ICSA	Al	250
	Ca	250
	Fe	100
	Mg	250
ICSB	Al	9.00
	Sb	1.00
	As	1.00
	Ba	0.30
	Be	0.10
	Bi	1.00
	B	0.50
	Cd	0.30
	Ca	45.00
	Cr	0.30
	Co	0.30
	Cu	0.30
	Fe	37.50
	Pb	1.00
	Mg	22.50
	Mn	0.20
	Mo	0.30
	Ni	0.30
	K	20.00
	Se	0.50
	Si	1.23
	Ag	0.30
	Na	7.50
	Sr	1.00
	Tl	1.00
	Sn	1.00
	Ti	1.00
	V	0.30
	Zn	0.30

	Element	True Value (mg/L)
CRI	Al	0.40
	Sb	0.10
	As	0.02
	Ba	0.04
	Be	0.01
	Bi	0.02
	B	0.10
	Cd	0.01
	Ca	0.40
	Cr	0.02
	Co	0.10
	Cu	0.05
	Fe	0.20
	Pb	0.05
	Mg	0.40
	Mn	0.03
	Mo	0.10
	Ni	0.08
	K	5.00
	Se	0.02
	Si	1.00
	Ag	0.02
	Na	5.00
	Sr	0.02
	Tl	0.02
	Sn	0.02
	Ti	0.02
	V	0.10
	Zn	0.04

LCS & MS Spike Concentrations

Element	Liquid concentrations (mg/L)	Soil concentrations (mg/kg)
Al	2.00	100
Sb	0.50	25.0
As	0.12	6.0
Ba	2.00	100
Be	0.05	2.5
Bi	1.00	50.0
B	1.00	50.0
Cd	0.05	2.55
Ca	10.00	500
Cr	0.20	10.0
Co	0.50	25.0
Cu	0.25	12.5
Fe	1.00	50.0
Pb	0.51	25.5
Mg	10.00	500
Mn	0.50	25.0
Mo	1.00	50.0
Ni	0.50	25.0
K	10.00	500
Se	0.12	6.0
Si	1.00	50.0
Ag	0.05	2.5
Na	10.00	500
Sr	1.00	50.0
Tl	0.12	6.0
Sn	1.00	50.0
Ti	1.00	50.0
V	0.50	25.0
Zn	0.50	25.0

LCS and MS Spike Concentrations—As of 08/09/2011

Element	Liquid Concentration(mg/L)	Soil Concentration (mg/kg)
Al	2.00	160
Sb	0.50	40
As	0.12	9.6
Ba	2.00	160
Be	0.05	4.0
Bi	1.00	80
B	1.00	80
Cd	0.051	4.08
Ca	10.0	800
Cr	0.20	16
Co	0.50	40
Cu	0.25	20
Fe	1.00	80
Pb	0.51	40.8
Mg	10.0	800
Mn	0.50	40
Mo	1.00	80
Ni	0.50	40
K	10.0	800
Se	0.12	9.6
Si	1.00	80
Ag	0.05	24
Na	10.0	800
Sr	1.00	80
Tl	0.12	9.6
Sn	1.00	80
Ti	1.00	80
V	0.50	40
Zn	0.50	40

Revised 8/9/11 Soil spike is based on (2x water spike)x(50/1.25), where 50 is the final volume of soil digestate and 1.25 is the nominal digestion weight of 1.25g, except in the case of Ag, where additional Ag is added to the spike.

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

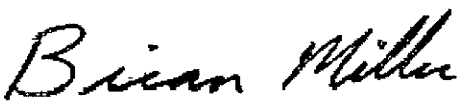
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of 6010B Metals

Aqueous Samples

The instrument will calculate the concentration (µg/L). This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

Soil or Solid Samples

Soil samples are calculated as follows:

$$\text{Result, mg/Kg} = \frac{C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)}{A}$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

$$A = \frac{\text{Sample weight (grams)}}{\text{Final Volume (mL)}}$$

Dry weight correction

Dry weight correction is calculated as follows:

$$\text{Final concentration in mg/Kg, dry weight} = \frac{\text{Result, mg/Kg}}{\%_{solids}}$$

Where:

$\%_{solids}$ = Percent Solids, as a decimal value

Sequence Trace 8

9/26/2024 11:33:18 PM

LabBook: WG1976444_09262024T8_B.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank DMC Trace8	0	1	9/26/2024 11:42:15 AM
2	ICAL	0	2	9/26/2024 11:46:29 AM
3	ICV	0	3	9/26/2024 11:53:31 AM
4	ICB	0	4	9/26/2024 11:57:33 AM
5	ICV	0	10	9/26/2024 12:01:29 PM
6	ICB	0	4	9/26/2024 12:05:29 PM
7	LLOQ	0	5	9/26/2024 12:09:26 PM
8	LDR (ICSA)	0	6	9/26/2024 12:13:22 PM
9	xcap on	0	7	9/26/2024 12:17:20 PM
10	LDR (SIC Multi)	0	7	9/26/2024 12:19:13 PM
11	LDR Check	0	8	9/26/2024 12:23:30 PM
12	LDR 1000 Ca	1	5	9/26/2024 12:29:42 PM
13	LDR 500 Fe	1	6	9/26/2024 12:33:44 PM
14	LDR 20 B	1	7	9/26/2024 12:37:41 PM
15	CCV	0	3	9/26/2024 12:41:38 PM
16	CCB	0	4	9/26/2024 12:45:34 PM
17	WG1976465-1 WG1976465	2	24	9/26/2024 12:52:19 PM
18	WG1976465-2D2 WG1976465	2	25	9/26/2024 12:56:22 PM
19	L2455430-01D2 WG1976465	2	26	9/26/2024 1:00:18 PM
20	WG1976465-3D2 WG1976465	2	27	9/26/2024 1:04:14 PM
21	WG1976465-4D2 WG1976465	2	28	9/26/2024 1:08:09 PM
22	WG1976465-5D2 WG1976465	2	29	9/26/2024 1:12:05 PM
23	WG1976465-6D10 WG1976465	2	30	9/26/2024 1:16:01 PM
24	L2455430-02D2 WG1976465	2	31	9/26/2024 1:19:57 PM
25	L2455430-03D2 WG1976465	2	32	9/26/2024 1:23:53 PM
26	CCV	0	3	9/26/2024 1:27:49 PM
27	CCB	0	4	9/26/2024 1:31:45 PM
28	L2454018-01d2 WG1975344	1	53	9/26/2024 1:37:49 PM
29	L2454018-02d2 WG1975344	1	54	9/26/2024 1:42:01 PM
30	L2454035-41d2 WG1975344	1	55	9/26/2024 1:45:57 PM
31	L2454035-43d2 WG1975344	1	56	9/26/2024 1:49:53 PM
32	L2454035-45d2 WG1975344	1	57	9/26/2024 1:53:49 PM
33	L2454035-47d2 WG1975344	1	58	9/26/2024 1:57:45 PM
34	L2454056-01d2 WG1975344	1	59	9/26/2024 2:01:42 PM
35	L2454077-01d2 WG1975344	1	60	9/26/2024 2:05:40 PM
36	L2454035-01D2 WG1975335	2	4	9/26/2024 2:09:38 PM
37	L2454035-03D2 WG1975335	2	5	9/26/2024 2:13:34 PM
38	CCV	0	3	9/26/2024 2:17:30 PM
39	CCB	0	4	9/26/2024 2:21:26 PM
40	WG1975335-1 WG1975335	2	1	9/26/2024 2:26:25 PM
41	WG1975335-2D2 WG1975335	2	2	9/26/2024 2:30:31 PM
42	WG1975335-3D2 WG1975335	2	3	9/26/2024 2:34:27 PM
43	L2454035-05D2 WG1975335	2	6	9/26/2024 2:38:22 PM
44	L2454035-07D2 WG1975335	2	7	9/26/2024 2:42:19 PM
45	L2454035-09D2 WG1975335	2	8	9/26/2024 2:46:16 PM
46	L2454035-11D2 WG1975335	2	9	9/26/2024 2:50:12 PM
47	L2454035-13D2 WG1975335	2	10	9/26/2024 2:54:09 PM
48	L2454035-15D2 WG1975335	2	11	9/26/2024 2:58:06 PM
49	L2454035-17D2 WG1975335	2	12	9/26/2024 3:02:03 PM
50	CCV	0	3	9/26/2024 3:06:01 PM
51	CCB	0	4	9/26/2024 3:09:57 PM
52	L2454035-19D2 WG1975335	2	13	9/26/2024 3:18:47 PM
53	L2454035-21D2 WG1975335	2	14	9/26/2024 3:22:49 PM
54	L2454035-23D2 WG1975335	2	15	9/26/2024 3:26:46 PM
55	L2454035-25D2 WG1975335	2	16	9/26/2024 3:30:42 PM
56	L2454035-27D2 WG1975335	2	17	9/26/2024 3:34:38 PM
57	L2454035-29D2 WG1975335	2	18	9/26/2024 3:38:35 PM
58	L2454035-31D2 WG1975335	2	19	9/26/2024 3:42:31 PM
59	L2454035-33D2 WG1975335	2	20	9/26/2024 3:46:28 PM
60	L2454035-35D2 WG1975335	2	21	9/26/2024 3:50:24 PM
61	L2454035-37D2 WG1975335	2	22	9/26/2024 3:54:21 PM
62	CCV	0	3	9/26/2024 3:58:18 PM
63	CCB	0	4	9/26/2024 4:02:15 PM
64	WG1976106-1 WG1976106	2	33	9/26/2024 4:08:10 PM
65	WG1976106-2 WG1976106	2	34	9/26/2024 4:12:25 PM
66	L2453858-03 WG1976106	2	35	9/26/2024 4:16:23 PM
67	WG1976106-3 WG1976106	2	36	9/26/2024 4:20:21 PM
68	WG1976106-4 WG1976106	2	37	9/26/2024 4:24:19 PM

Sequence Trace 8

9/26/2024 11:33:18 PM

Index	Label	Rack	Vial	Started at
69	WG1976106-5 WG1976106	2	38	9/26/2024 4:28:16 PM
70	WG1976106-6D5 WG1976106	2	39	9/26/2024 4:32:13 PM
71	L2453858-01 WG1976106	2	40	9/26/2024 4:36:10 PM
72	L2453858-02 WG1976106	2	41	9/26/2024 4:40:07 PM
73	L2454035-39D2 WG1975335	2	23	9/26/2024 4:44:04 PM
74	CCV	0	3	9/26/2024 4:48:02 PM
75	CCB	0	4	9/26/2024 4:52:00 PM
76	L2453858-04 WG1976106	2	42	9/26/2024 4:56:00 PM
77	CCV	0	3	9/26/2024 4:59:57 PM
78	CCB	0	4	9/26/2024 5:03:54 PM
79	WG1976295-1 WG1976295	2	43	9/26/2024 5:09:12 PM
80	WG1976295-2D2 WG1976295	2	44	9/26/2024 5:13:24 PM
81	L2454047-07D4 WG1975918	3	6	9/26/2024 5:23:14 PM
82	L2453965-01D2 WG1976295	2	50	9/26/2024 5:27:30 PM
83	CCV	0	3	9/26/2024 5:31:27 PM
84	CCB	0	4	9/26/2024 5:35:24 PM
85	WG1976217-1 WG1976217	3	7	9/26/2024 5:40:57 PM
86	WG1976217-2 WG1976217	3	8	9/26/2024 5:49:02 PM
87	L2454059-02 WG1976217	3	14	9/26/2024 5:53:18 PM
88	L2454059-01 WG1976217	3	9	9/26/2024 5:57:16 PM
89	WG1976217-3 WG1976217	3	10	9/26/2024 6:01:14 PM
90	WG1976217-4 WG1976217	3	11	9/26/2024 6:05:13 PM
91	WG1976217-5 WG1976217	3	12	9/26/2024 6:09:11 PM
92	WG1976217-6D5 WG1976217	3	13	9/26/2024 6:13:09 PM
93	CCV	0	3	9/26/2024 6:17:08 PM
94	CCB	0	4	9/26/2024 6:21:05 PM
95	L2454085-04D2 WG1976295	2	51	9/26/2024 6:26:57 PM
96	L2454097-02D2 WG1976295	2	52	9/26/2024 6:31:13 PM
97	L2454097-04D2 WG1976295	2	53	9/26/2024 6:35:11 PM
98	L2454098-02D2 WG1976295	2	54	9/26/2024 6:39:09 PM
99	L2454865-01D2 WG1976295	2	55	9/26/2024 6:43:07 PM
100	L2452560-01D2 WG1976295	2	45	9/26/2024 6:47:05 PM
101	WG1976295-3D2 WG1976295	2	46	9/26/2024 6:51:03 PM
102	WG1976295-4D2 WG1976295	2	47	9/26/2024 6:55:02 PM
103	WG1976295-5D2 WG1976295	2	48	9/26/2024 6:59:00 PM
104	WG1976295-6D10 WG1976295	2	49	9/26/2024 7:02:58 PM
105	CCV	0	3	9/26/2024 7:06:57 PM
106	CCB	0	4	9/26/2024 7:10:54 PM
107	L2454991-01D2 WG1976295	2	56	9/26/2024 7:16:22 PM
108	L2454991-02D2 WG1976295	2	57	9/26/2024 7:20:23 PM
109	L2455018-09D2 WG1976295	2	58	9/26/2024 7:24:22 PM
110	zL2455018-10D2 WG1976295	2	59	9/26/2024 7:28:20 PM
111	L2455019-09D2 WG1976295	2	60	9/26/2024 7:32:18 PM
112	L2455019-10D2 WG1976295	3	1	9/26/2024 7:36:18 PM
113	L2455039-01D2 WG1976295	3	2	9/26/2024 7:40:16 PM
114	L2455039-02D2 WG1976295	3	3	9/26/2024 7:44:15 PM
115	L2455039-03D2 WG1976295	3	4	9/26/2024 7:48:13 PM
116	L2455039-04d3 WG1976295	3	5	9/26/2024 7:52:12 PM
117	CCV	0	3	9/26/2024 7:56:11 PM
118	CCB	0	4	9/26/2024 8:00:09 PM
119	xSAMPLE NOT loaded	3	16	9/26/2024 8:05:14 PM
120	L2454068-01 WG1975762	3	16	9/26/2024 8:07:58 PM
121	L2454068-03 WG1975762	3	17	9/26/2024 8:12:17 PM
122	L2454068-07 WG1975762	3	18	9/26/2024 8:16:16 PM
123	L2454068-08 WG1975762	3	19	9/26/2024 8:20:15 PM
124	L2454312-02 WG1975762	3	20	9/26/2024 8:24:14 PM
125	L2454312-03 WG1975762	3	21	9/26/2024 8:28:14 PM
126	L2454312-04 WG1975762	3	22	9/26/2024 8:32:13 PM
127	L2455018-10D4 WG1976295	3	15	9/26/2024 8:36:12 PM
128	CCV	0	3	9/26/2024 8:40:11 PM
129	CCB	0	4	9/26/2024 8:44:08 PM
130	WG1976101-1 WG1976101	3	23	9/26/2024 8:52:13 PM
131	WG1976101-2 WG1976101	3	24	9/26/2024 8:56:32 PM
132	L2453389-03 WG1976101	3	30	9/26/2024 9:00:31 PM
133	L2453389-04 WG1976101	3	31	9/26/2024 9:04:30 PM
134	L2453389-05 WG1976101	3	32	9/26/2024 9:11:11 PM
135	L2453389-02 WG1976101	3	25	9/26/2024 9:15:32 PM
136	WG1976101-3 WG1976101	3	26	9/26/2024 9:19:33 PM
137	WG1976101-4 WG1976101	3	27	9/26/2024 9:23:32 PM
138	WG1976101-5 WG1976101	3	28	9/26/2024 9:27:32 PM
139	WG1976101-6d5 WG1976101	3	29	9/26/2024 9:31:32 PM
140	CCV	0	3	9/26/2024 9:35:32 PM
141	CCB	0	4	9/26/2024 9:39:30 PM
142	WG1975278-2 WG1975278	3	42	9/26/2024 9:45:54 PM

Sequence Trace 8

9/26/2024 11:33:18 PM

Index	Label	Rack	Vial	Started at
143	CCV	0	3	9/26/2024 9:50:10 PM
144	CCB	0	4	9/26/2024 9:54:08 PM
145	L2453389-06 WG1976101	3	33	9/26/2024 10:00:03 PM
146	L2453389-07 WG1976101	3	34	9/26/2024 10:04:24 PM
147	L2453389-08 WG1976101	3	35	9/26/2024 10:08:24 PM
148	L2453389-09 WG1976101	3	36	9/26/2024 10:12:24 PM
149	L2454051-01 WG1976101	3	37	9/26/2024 10:16:24 PM
150	L2454051-02 WG1976101	3	38	9/26/2024 10:20:24 PM
151	L2454051-03 WG1976101	3	39	9/26/2024 10:24:24 PM
152	L2454051-04 WG1976101	3	40	9/26/2024 10:28:24 PM
153	L2454051-05 WG1976101	3	41	9/26/2024 10:32:25 PM
154	CCV	0	3	9/26/2024 10:36:25 PM
155	CCB	0	4	9/26/2024 10:40:23 PM
156	L2453598-02d4 WG1975357	3	43	9/26/2024 10:47:13 PM
157	L2453613-13d10 WG1975357	3	44	9/26/2024 10:51:35 PM
158	L2453715-02d5 WG1975357	3	45	9/26/2024 10:55:35 PM
159	L2453715-03d5 WG1975357	3	46	9/26/2024 10:59:35 PM
160	L2454014-01d5 WG1975357	3	47	9/26/2024 11:03:35 PM
161	L2454014-02d5 WG1975357	3	48	9/26/2024 11:07:36 PM
162	L2453613-13d40 WG1975357	3	49	9/26/2024 11:11:36 PM
163	CCV	0	3	9/26/2024 11:17:16 PM
164	CCB	0	4	9/26/2024 11:21:17 PM
165	<Identifier>	0	1	
166	CCV	0	3	
167	CCB	0	4	
168	CCV	0	10	
169	CCB	0	4	
170	LLOQ	0	5	

Sequence Trace 4

9/27/2024 9:44:16 AM

LabBook: WG1976586_09262024T4.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank JMF Trace4	0	1	9/26/2024 8:57:09 AM
2	ICAL	0	2	9/26/2024 9:03:33 AM
3	ICV	0	3	9/26/2024 9:09:32 AM
4	ICB	0	4	9/26/2024 9:15:35 AM
5	LLOQ	0	5	9/26/2024 9:22:51 AM
6	ICSA	0	6	9/26/2024 9:30:50 AM
7	LDR 400 Fe pass _IEC -Pb -Zn	1	1	9/26/2024 9:39:51 AM
8	LDR 800 Ca pass	1	2	9/26/2024 9:46:19 AM
9	LDR 500 Ca pass	1	3	9/26/2024 9:52:47 AM
10	LDR 500 Mg pass	1	4	9/26/2024 9:59:17 AM
11	SIC Multi	0	7	9/26/2024 10:22:52 AM
12	IEC 500 Al -B +Cd +Pb	1	5	9/26/2024 10:30:52 AM
13	LDR Check	0	8	9/26/2024 10:37:18 AM
14	LDR 20 As pass	1	6	9/26/2024 11:12:11 AM
15	LDR 20 B pass	1	7	9/26/2024 11:18:35 AM
16	xLDR 500 Na	1	8	9/26/2024 11:24:59 AM
17	LDR 300 Na pass	1	9	9/26/2024 11:31:34 AM
18	LDR 20 Si pass	1	10	9/26/2024 11:41:20 AM
19	IEC 20 Mn -Tl	1	11	9/26/2024 11:47:45 AM
20	LDR 5 Cd pass	1	12	9/26/2024 12:25:53 PM
21	LDR 5 Mo pass	1	13	9/26/2024 12:32:19 PM
22	LDR 5 Se pass	1	14	9/26/2024 12:38:39 PM
23	CCV	0	3	9/26/2024 1:07:48 PM
24	CCB	0	4	9/26/2024 1:13:52 PM
25	WG1976262-1 WG1976262	1	15	9/26/2024 1:20:56 PM
26	WG1976262-2 WG1976262	1	16	9/26/2024 1:27:20 PM
27	L2453906-01 WG1976262	1	22	9/26/2024 1:33:32 PM
28	L2454942-01 WG1976262	1	23	9/26/2024 1:39:54 PM
29	zL2454942-01D5 WG1976262	1	24	9/26/2024 1:46:13 PM
30	L2454206-05 WG1976262	1	17	9/26/2024 1:52:31 PM
31	WG1976262-3 WG1976262	1	18	9/26/2024 1:58:50 PM
32	WG1976262-4 WG1976262	1	19	9/26/2024 2:05:00 PM
33	WG1976262-5 WG1976262	1	20	9/26/2024 2:11:10 PM
34	WG1976262-6D5 WG1976262	1	21	9/26/2024 2:17:21 PM
35	CCV	0	3	9/26/2024 2:23:43 PM
36	CCB	0	4	9/26/2024 2:29:47 PM
37	WG1976676-1 WG1976676	1	25	9/26/2024 2:40:49 PM
38	WG1976676-2 WG1976676	1	26	9/26/2024 2:47:20 PM
39	L2454653-03 WG1976676	1	27	9/26/2024 2:53:40 PM
40	WG1976676-3 WG1976676	1	28	9/26/2024 3:00:02 PM
41	WG1976676-4 WG1976676	1	29	9/26/2024 3:06:13 PM
42	zL2453698-01d10 WG1973911	1	30	9/26/2024 3:12:35 PM
43	L2453698-02d10 WG1973911	1	31	9/26/2024 3:19:04 PM
44	CCV	0	3	9/26/2024 3:25:31 PM
45	CCB	0	4	9/26/2024 3:31:34 PM
46	WG1975964-1 WG1975964	1	32	9/26/2024 3:41:25 PM
47	WG1975964-2 WG1975964	1	33	9/26/2024 3:47:50 PM
48	L2454059-01 WG1975964	1	34	9/26/2024 3:54:03 PM
49	WG1975964-3 WG1975964	1	35	9/26/2024 4:00:33 PM
50	WG1975964-4 WG1975964	1	36	9/26/2024 4:06:54 PM
51	WG1975964-5 WG1975964	1	37	9/26/2024 4:13:24 PM
52	WG1975964-6d5 WG1975964	1	38	9/26/2024 4:19:42 PM
53	CCV	0	3	9/26/2024 4:26:01 PM
54	CCB	0	4	9/26/2024 4:32:03 PM
55	L2454059-02 WG1975964	1	57	9/26/2024 4:42:11 PM
56	L2454081-02 WG1975964	1	58	9/26/2024 4:48:33 PM
57	L2454081-01 WG1975964	1	39	9/26/2024 4:54:59 PM
58	WG1975964-7 WG1975964	1	40	9/26/2024 5:01:24 PM
59	WG1975964-8 WG1975964	1	41	9/26/2024 5:07:46 PM
60	WG1975964-9 WG1975964	1	42	9/26/2024 5:14:11 PM
61	WG1975964-10d5 WG1975964	1	43	9/26/2024 5:20:34 PM
62	L2453698-01d20 WG1973911	2	1	9/26/2024 5:26:53 PM
63	L2453855-01d100 WG1975237	1	59	9/26/2024 5:33:22 PM
64	L2453855-02d10 WG1975237	1	60	9/26/2024 5:39:49 PM
65	CCV	0	3	9/26/2024 5:46:15 PM
66	CCB	0	4	9/26/2024 5:52:17 PM
67	LDR 400 Na pass	2	2	9/26/2024 6:00:08 PM
68	L2453979-03 WG1975964	1	54	9/26/2024 6:16:14 PM
69	L2453979-04 WG1975964	1	55	9/26/2024 6:22:41 PM
70	L2454039-01 WG1975964	1	56	9/26/2024 6:29:08 PM
71	CCV	0	3	9/26/2024 6:35:36 PM
72	CCB	0	4	9/26/2024 6:41:39 PM

Sequence Trace 4

9/27/2024 9:44:16 AM

Index:	Label:	Rack	Vial	Start time:
73	CCV	0	3	9/26/2024 6:57:26 PM
74	CCB	0	4	9/26/2024 7:03:30 PM
75	L2453908-01 WG1975964	1	44	9/26/2024 7:10:00 PM
76	L2453913-01 WG1975964	1	45	9/26/2024 7:16:20 PM
77	L2453916-01 WG1975964	1	46	9/26/2024 7:22:39 PM
78	L2453918-01 WG1975964	1	47	9/26/2024 7:29:00 PM
79	L2453918-02 WG1975964	1	48	9/26/2024 7:35:29 PM
80	L2453921-01 WG1975964	1	49	9/26/2024 7:41:57 PM
81	L2453967-01 WG1975964	1	50	9/26/2024 7:48:16 PM
82	L2453967-02 WG1975964	1	51	9/26/2024 7:54:35 PM
83	L2453979-01 WG1975964	1	52	9/26/2024 8:00:54 PM
84	L2453979-02 WG1975964	1	53	9/26/2024 8:07:21 PM
85	CCV	0	3	9/26/2024 8:13:48 PM
86	CCB	0	4	9/26/2024 8:19:51 PM
87	CCV	0	3	9/26/2024 8:50:09 PM
88	CCB	0	4	9/26/2024 8:56:13 PM
89	XWG1975278-2 WG1975278	2	4	9/26/2024 9:04:06 PM
90	L2453576-07d10 WG1975571	2	3	9/26/2024 9:10:17 PM
91	L2453880-01 WG1975278	2	5	9/26/2024 9:16:31 PM
92	L2453972-01 WG1975278	2	6	9/26/2024 9:22:49 PM
93	L2453972-02 WG1975278	2	7	9/26/2024 9:29:18 PM
94	L2454198-01 WG1975278	2	8	9/26/2024 9:35:46 PM
95	L2454324-06 WG1975278	2	9	9/26/2024 9:42:14 PM
96	L2454324-07 WG1975278	2	10	9/26/2024 9:48:34 PM
97	L2454325-01 WG1975278	2	11	9/26/2024 9:54:55 PM
98	CCV	0	3	9/26/2024 10:01:17 PM
99	CCB	0	4	9/26/2024 10:07:20 PM
100	CCV	0	3	9/26/2024 10:13:46 PM
101	CCB	0	4	9/26/2024 10:22:28 PM
102	L2453831-01D2 WG1975353	2	12	9/26/2024 10:30:32 PM
103	L2453831-02D2 WG1975353	2	13	9/26/2024 10:36:52 PM
104	L2453831-03D2 WG1975353	2	14	9/26/2024 10:43:10 PM
105	L2453831-04D2 WG1975353	2	15	9/26/2024 10:49:26 PM
106	L2453831-05D2 WG1975353	2	16	9/26/2024 10:55:43 PM
107	L2453831-06D2 WG1975353	2	17	9/26/2024 11:02:01 PM
108	L2453831-07D2 WG1975353	2	18	9/26/2024 11:08:19 PM
109	L2453831-08D2 WG1975353	2	19	9/26/2024 11:14:37 PM
110	L2453831-09D2 WG1975353	2	20	9/26/2024 11:20:53 PM
111	L2453831-10D2 WG1975353	2	21	9/26/2024 11:27:08 PM
112	CCV	0	3	9/26/2024 11:33:25 PM
113	CCB	0	4	9/26/2024 11:39:28 PM
114	L2453935-21D2 WG1975353	2	22	9/26/2024 11:54:06 PM
115	L2454216-01D2 WG1975353	2	23	9/27/2024 12:00:19 AM
116	L2454216-02D2 WG1975353	2	24	9/27/2024 12:06:46 AM
117	CCV	0	3	9/27/2024 12:13:14 AM
118	CCB	0	4	9/27/2024 12:19:17 AM
119	CCV	0	3	9/27/2024 12:25:43 AM
120	CCB	0	4	9/27/2024 12:31:47 AM
121	LLOQ	0	5	9/27/2024 12:38:13 AM

Sequence Trace 5

9/27/2024 11:23:41 AM

LabBook: WG1976666_09262024T5.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank DHL Trace5	0	1	9/26/2024 11:27:19 AM
2	ICAL	0	2	9/26/2024 11:33:37 AM
3	ICV	0	3	9/26/2024 11:39:38 AM
4	ICB	0	4	9/26/2024 11:45:41 AM
5	ICV	0	10	9/26/2024 11:52:00 AM
6	ICB	0	4	9/26/2024 11:58:05 AM
7	LLOQ RL	0	5	9/26/2024 12:04:24 PM
8	ICSA	0	6	9/26/2024 12:10:39 PM
9	SIC Multi	0	7	9/26/2024 12:36:18 PM
10	LDR Check	0	8	9/26/2024 12:43:00 PM
11	zLLOQ RL 0.005	1	1	9/26/2024 1:04:13 PM
12	LLOQ RL 0.01	1	2	9/26/2024 1:10:29 PM
13	IEC 500 Al Pb-	1	3	9/26/2024 1:16:43 PM
14	xLDR 250 k	1	2	9/26/2024 1:23:02 PM
15	xLDR 500 AL	1	3	9/26/2024 1:29:17 PM
16	LDR 250 NA	1	5	9/26/2024 1:35:50 PM
17	LDR 250 K	1	4	9/26/2024 1:43:00 PM
18	CCV	0	3	9/26/2024 2:00:21 PM
19	CCB	0	4	9/26/2024 2:06:23 PM
20	CCV	0	3	9/26/2024 2:16:57 PM
21	CCB	0	4	9/26/2024 2:23:00 PM
22	LDR B 20	1	7	9/26/2024 2:30:00 PM
23	LDR 500 CA	1	6	9/26/2024 2:36:18 PM
24	xWRONG SPOT	0	10	9/26/2024 3:02:01 PM
25	zIEC 200 FE Pb-	1	8	9/26/2024 3:04:00 PM
26	WG1976148-2 WG1976148	1	10	9/26/2024 3:24:11 PM
27	L2453196-01d50 WG1975237	1	16	9/26/2024 3:30:19 PM
28	zL2453855-01d20 WG1975237	1	17	9/26/2024 3:36:37 PM
29	L2453855-02d2 WG1975237	1	18	9/26/2024 3:42:51 PM
30	l2453869-04 WG1976148	1	11	9/26/2024 3:49:19 PM
31	CCV	0	3	9/26/2024 3:55:35 PM
32	CCB	0	4	9/26/2024 4:01:38 PM
33	WG1976148-1 WG1976148	1	9	9/26/2024 4:12:01 PM
34	WG1976148-3 WG1976148	1	12	9/26/2024 4:18:20 PM
35	WG1976148-4 WG1976148	1	13	9/26/2024 4:24:27 PM
36	WG1976148-5 WG1976148	1	14	9/26/2024 4:30:38 PM
37	WG1976148-6D5 WG1976148	1	15	9/26/2024 4:36:41 PM
38	L2453855-01d100 WG1975237	1	19	9/26/2024 4:42:55 PM
39	L2453855-02d10 WG1975237	1	20	9/26/2024 4:49:16 PM
40	CCV	0	3	9/26/2024 5:04:36 PM
41	CCB	0	4	9/26/2024 5:10:39 PM
42	WG1975352-1 WG1975352	1	21	9/26/2024 5:18:40 PM
43	WG1975352-2d2 WG1975352	1	22	9/26/2024 5:24:59 PM
44	L2453935-01d2 WG1975352	1	23	9/26/2024 5:31:06 PM
45	WG1975352-3d2 WG1975352	1	24	9/26/2024 5:37:15 PM
46	WG1975352-4d2 WG1975352	1	25	9/26/2024 5:43:45 PM
47	WG1975352-5d2 WG1975352	1	26	9/26/2024 5:49:50 PM
48	WG1975352-6d10 WG1975352	1	27	9/26/2024 5:55:52 PM
49	L2453935-02d2 WG1975352	1	28	9/26/2024 6:02:03 PM
50	L2453935-03d2 WG1975352	1	29	9/26/2024 6:08:09 PM
51	L2453935-04d2 WG1975352	1	30	9/26/2024 6:14:16 PM
52	CCV	0	3	9/26/2024 6:20:22 PM
53	CCB	0	4	9/26/2024 6:26:24 PM
54	xNO sample loaded	1	47	9/26/2024 6:36:33 PM
55	WG1976217-2d2 WG1976217	1	47	9/26/2024 6:37:40 PM
56	CCV	0	3	9/26/2024 6:43:46 PM
57	CCB	0	4	9/26/2024 6:49:49 PM
58	L2453935-05d2 WG1975352	1	31	9/26/2024 6:59:26 PM
59	L2453935-06d2 WG1975352	1	32	9/26/2024 7:05:33 PM
60	L2453935-07d2 WG1975352	1	33	9/26/2024 7:11:40 PM
61	L2453935-08d2 WG1975352	1	34	9/26/2024 7:18:12 PM
62	L2453935-09d2 WG1975352	1	35	9/26/2024 7:25:03 PM
63	L2453935-10d2 WG1975352	1	36	9/26/2024 7:31:35 PM
64	L2453935-11d2 WG1975352	1	37	9/26/2024 7:37:46 PM
65	L2453935-12d2 WG1975352	1	38	9/26/2024 7:43:54 PM
66	L2453935-13d2 WG1975352	1	39	9/26/2024 7:50:02 PM
67	L2453935-14d2 WG1975352	1	40	9/26/2024 7:56:07 PM
68	CCV	0	3	9/26/2024 8:02:14 PM
69	CCB	0	4	9/26/2024 8:08:16 PM
70	L2453935-15d2 WG1975352	1	41	9/26/2024 8:20:10 PM
71	L2453935-16d2 WG1975352	1	42	9/26/2024 8:26:17 PM
72	L2453935-17d2 WG1975352	1	43	9/26/2024 8:32:26 PM

Sequence Trace 5

9/27/2024 11:23:41 AM

Index:	Label:	Rack	Vial	Start time:
73	L2453935-18d2 WG1975352	1	44	9/26/2024 8:38:35 PM
74	L2453935-19d2 WG1975352	1	45	9/26/2024 8:45:02 PM
75	L2453935-20d2 WG1975352	1	46	9/26/2024 8:51:29 PM
76	CCV	0	3	9/26/2024 8:57:38 PM
77	CCB	0	4	9/26/2024 9:03:40 PM
78	CCV	0	3	9/26/2024 9:15:24 PM
79	CCB	0	4	9/26/2024 9:39:38 PM
80	LLOQ RL	0	5	9/26/2024 9:45:57 PM
81	CCV	0	3	9/27/2024 9:09:28 AM
82	CCB	0	4	9/27/2024 9:15:31 AM
83	WG1975884-1 WG1975884	1	1	9/27/2024 9:23:26 AM
84	WG1975884-2D2 WG1975884	1	2	9/27/2024 9:29:45 AM
85	L2454386-22D2 WG1975884	1	8	9/27/2024 9:35:50 AM
86	L2454386-23D2 WG1975884	1	9	9/27/2024 9:42:08 AM
87	L2454386-24D2 WG1975884	1	10	9/27/2024 9:48:29 AM
88	L2454386-21D2 WG1975884	1	3	9/27/2024 9:54:49 AM
89	WG1975884-3D2 WG1975884	1	4	9/27/2024 10:01:10 AM
90	WG1975884-4D2 WG1975884	1	5	9/27/2024 10:07:47 AM
91	WG1975884-5D2 WG1975884	1	6	9/27/2024 10:14:12 AM
92	WG1975884-6D10 WG1975884	1	7	9/27/2024 10:20:26 AM
93	CCV	0	3	9/27/2024 10:26:38 AM
94	CCB	0	4	9/27/2024 10:32:40 AM
95	LDR 25 Mn	1	27	9/27/2024 10:39:07 AM
96	L2454386-25D2 WG1975884	1	11	9/27/2024 10:45:23 AM
97	L2454386-26D2 WG1975884	1	12	9/27/2024 10:51:42 AM
98	L2454464-21D2 WG1975884	1	13	9/27/2024 10:57:54 AM
99	L2454464-22D2 WG1975884	1	14	9/27/2024 11:04:07 AM
100	CCV	0	3	9/27/2024 11:10:39 AM
101	CCB	0	4	9/27/2024 11:16:42 AM
102	L2454464-23D2 WG1975884	1	15	
103	L2454464-24D2 WG1975884	1	16	
104	L2454464-25D2 WG1975884	1	17	
105	L2454464-26D2 WG1975884	1	18	
106	L2454464-27D2 WG1975884	1	19	
107	L2454464-28D2 WG1975884	1	20	
108	L2454464-29D2 WG1975884	1	21	
109	L2454464-30D2 WG1975884	1	22	
110	L2454464-31D2 WG1975884	1	23	
111	L2454464-32D2 WG1975884	1	24	
112	L2454464-33D2 WG1975884	1	25	
113	L2454464-34D2 WG1975884	1	26	
114	CCV	0	3	
115	CCB	0	4	
116		1	28	
117		1	29	
118		1	30	
119		1	31	

Sequence Trace 9

9/27/2024 11:27:56 AM

LabBook: WG1976462_09262024T9.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank DHL Trace9	0	1	9/26/2024 7:04:24 AM
2	ICAL	0	2	9/26/2024 7:08:36 AM
3	ICV	0	3	9/26/2024 7:12:28 AM
4	ICB	0	4	9/26/2024 7:16:21 AM
5	ICV	0	3	9/26/2024 7:24:02 AM
6	ICB	0	4	9/26/2024 7:28:01 AM
7	No sample	0	5	9/26/2024 7:31:54 AM
8	ICSA	0	6	9/26/2024 7:35:49 AM
9	SIC Multi	0	7	9/26/2024 8:13:48 AM
10	LDR Check	0	8	9/26/2024 8:17:50 AM
11	LLOQ	0	5	9/26/2024 8:27:05 AM
12	LLOQ Sb & B	0	5	9/26/2024 9:03:56 AM
13	LLOQ 0.005 As	1	1	9/26/2024 9:29:20 AM
14	LLOQ 0.01 As	1	2	9/26/2024 9:33:31 AM
15	LDR 20 As pass	1	3	9/26/2024 9:37:23 AM
16	LDR 20 B pass	1	4	9/26/2024 9:41:15 AM
17	LDR 500 Fe pass	1	5	9/26/2024 9:45:07 AM
18	xLDR 1000 Ca	1	6	9/26/2024 9:49:00 AM
19	CCV	0	3	9/26/2024 10:01:23 AM
20	CCB	0	4	9/26/2024 10:05:37 AM
21	WG1976360-1 WG1976360	1	7	9/26/2024 10:14:31 AM
22	WG1976360-2 WG1976360	1	8	9/26/2024 10:18:36 AM
23	WG1976360-3 WG1976360	1	9	9/26/2024 10:22:29 AM
24	L2455369-01 WG1976360	1	10	9/26/2024 10:26:23 AM
25	WG1976490-1 WG1976490	1	11	9/26/2024 10:30:17 AM
26	WG1976490-2 WG1976490	1	12	9/26/2024 10:34:11 AM
27	L2454612-01 WG1976490	1	13	9/26/2024 10:38:05 AM
28	WG1976490-3 WG1976490	1	14	9/26/2024 10:41:57 AM
29	WG1976490-4 WG1976490	1	15	9/26/2024 10:45:49 AM
30	CCV	0	3	9/26/2024 10:49:40 AM
31	CCB	0	4	9/26/2024 10:53:34 AM
32	WG1976309-2d2 WG1976309	1	16	9/26/2024 11:10:31 AM
33	WG1976309-3d2 WG1976309	1	17	9/26/2024 11:15:38 AM
34	CCV	0	3	9/26/2024 11:20:13 AM
35	CCB	0	4	9/26/2024 11:24:07 AM
36	L2454093-01d2 WG1975362	1	18	9/26/2024 11:31:13 AM
37	L2454093-02d2 WG1975362	1	19	9/26/2024 11:35:18 AM
38	L2454093-03d2 WG1975362	1	20	9/26/2024 11:39:11 AM
39	L2454093-04d2 WG1975362	1	21	9/26/2024 11:43:06 AM
40	L2454093-05d2 WG1975362	1	22	9/26/2024 11:47:00 AM
41	L2454093-06d2 WG1975362	1	23	9/26/2024 11:50:54 AM
42	L2454093-07d2 WG1975362	1	24	9/26/2024 11:54:48 AM
43	L2454093-08d2 WG1975362	1	25	9/26/2024 11:58:43 AM
44	L2454093-09d2 WG1975362	1	26	9/26/2024 12:12:09 PM
45	L2454093-10d2 WG1975362	1	27	9/26/2024 12:16:13 PM
46	CCV	0	3	9/26/2024 12:20:05 PM
47	CCB	0	4	9/26/2024 12:24:00 PM
48	WG1975909-1 WG1975909	1	32	9/26/2024 12:28:53 PM
49	WG1975909-2d2 WG1975909	1	33	9/26/2024 12:32:55 PM
50	WG1975909-3d2 WG1975909	1	34	9/26/2024 12:36:50 PM
51	L2455216-01d2 WG1975909	1	35	9/26/2024 12:40:44 PM
52	L2454093-11d2 WG1975362	1	28	9/26/2024 12:44:39 PM
53	xL2454093-12d2 WG1975362	1	29	9/26/2024 12:48:31 PM
54	L2454093-13d2 WG1975362	1	30	9/26/2024 12:52:24 PM
55	L2454093-14d2 WG1975362	1	31	9/26/2024 12:56:17 PM
56	L2454093-12d2 WG1975362	1	29	9/26/2024 1:00:12 PM
57	xL2453602-17d20 WG1974094	1	39	9/26/2024 1:04:06 PM
58	CCV	0	3	9/26/2024 1:08:00 PM
59	CCB	0	4	9/26/2024 1:11:54 PM
60	L2453602-19d10 WG1974094	1	40	9/26/2024 1:18:54 PM
61	L2453602-17d200 WG1974094	2	13	9/26/2024 1:23:01 PM
62	CCV	0	3	9/26/2024 1:28:26 PM
63	CCB	0	4	9/26/2024 1:32:23 PM
64	L2454047-08d2 WG1975918	1	58	9/26/2024 1:39:13 PM
65	L2454047-09d2 WG1975918	1	59	9/26/2024 1:43:23 PM
66	L2454047-10d2 WG1975918	1	60	9/26/2024 1:47:17 PM
67	L2454097-04 WG1976490	2	7	9/26/2024 1:51:12 PM
68	L2455077-01 WG1976490	2	8	9/26/2024 1:55:06 PM

Sequence Trace 9

9/27/2024 11:27:56 AM

Index	Label	Rack	Vial	Started at
69	L2455077-02 WG1976490	2	9	9/26/2024 1:59:00 PM
70	L2455077-03 WG1976490	2	10	9/26/2024 2:02:54 PM
71	L2455077-04 WG1976490	2	11	9/26/2024 2:06:49 PM
72	L2455077-05 WG1976490	2	12	9/26/2024 2:10:43 PM
73	CCV	0	3	9/26/2024 2:14:39 PM
74	CCB	0	4	9/26/2024 2:18:33 PM
75	WG1975918-1 WG1975918	1	41	9/26/2024 2:25:41 PM
76	WG1975918-2d2 WG1975918	1	42	9/26/2024 2:29:49 PM
77	L2452494-11d2 WG1975366	1	36	9/26/2024 2:33:42 PM
78	L2453692-03d2 WG1975366	1	37	9/26/2024 2:37:37 PM
79	L2453692-09d2 WG1975366	1	38	9/26/2024 2:41:30 PM
80	L2453863-13d2 WG1975918	1	43	9/26/2024 2:45:23 PM
81	WG1975918-3d2 WG1975918	1	44	9/26/2024 2:49:17 PM
82	WG1975918-4d2 WG1975918	1	45	9/26/2024 2:53:11 PM
83	WG1975918-5d2 WG1975918	1	46	9/26/2024 2:57:05 PM
84	WG1975918-6d10 WG1975918	1	47	9/26/2024 3:01:00 PM
85	CCV	0	3	9/26/2024 3:04:55 PM
86	CCB	0	4	9/26/2024 3:08:49 PM
87	L2452855-11d2 WG1975918	1	48	9/26/2024 3:22:29 PM
88	L2453863-14d2 WG1975918	1	49	9/26/2024 3:26:38 PM
89	L2453863-15d2 WG1975918	1	50	9/26/2024 3:30:32 PM
90	L2454047-01d2 WG1975918	1	51	9/26/2024 3:34:25 PM
91	L2454047-02d2 WG1975918	1	52	9/26/2024 3:38:19 PM
92	L2454047-03d2 WG1975918	1	53	9/26/2024 3:42:12 PM
93	L2454047-04d2 WG1975918	1	54	9/26/2024 3:46:05 PM
94	L2454047-05d2 WG1975918	1	55	9/26/2024 3:49:59 PM
95	L2454047-06d2 WG1975918	1	56	9/26/2024 3:53:53 PM
96	xL2454047-07d2 WG1975918	1	57	9/26/2024 3:57:47 PM
97	CCV	0	3	9/26/2024 4:01:41 PM
98	CCB	0	4	9/26/2024 4:05:36 PM
99	L2454047-07d4 WG1975918	2	14	9/26/2024 4:23:47 PM
100	L2453863-14 WG1975733	2	15	9/26/2024 4:27:57 PM
101	L2453863-15 WG1975733	2	16	9/26/2024 4:31:51 PM
102	L2453869-01 WG1975733	2	17	9/26/2024 4:35:46 PM
103	L2453869-02 WG1975733	2	18	9/26/2024 4:39:40 PM
104	L2453869-03 WG1975733	2	19	9/26/2024 4:43:35 PM
105	L2454077-01 WG1975733	2	26	9/26/2024 4:47:29 PM
106	L2453909-01 WG1975733	2	20	9/26/2024 4:51:24 PM
107	L2453909-02 WG1975733	2	21	9/26/2024 4:55:19 PM
108	L2454008-01 WG1975733	2	22	9/26/2024 4:59:13 PM
109	CCV	0	3	9/26/2024 5:03:08 PM
110	CCB	0	4	9/26/2024 5:07:03 PM
111	CCV	0	3	9/26/2024 5:12:37 PM
112	CCB	0	4	9/26/2024 5:18:32 PM
113	WG1976217-1 WG1976217	2	29	9/26/2024 5:28:18 PM
114	WG1976217-2 WG1976217	2	30	9/26/2024 5:32:28 PM
115	L2454059-01 WG1976217	2	31	9/26/2024 5:36:23 PM
116	WG1976217-3 WG1976217	2	32	9/26/2024 5:40:18 PM
117	WG1976217-4 WG1976217	2	33	9/26/2024 5:44:13 PM
118	WG1976217-5 WG1976217	2	34	9/26/2024 5:48:08 PM
119	WG1976217-6d5 WG1976217	2	35	9/26/2024 5:52:03 PM
120	L2453908-01 WG1976217	2	36	9/26/2024 5:55:58 PM
121	L2453913-01 WG1976217	2	37	9/26/2024 5:59:54 PM
122	L2454059-02 WG1976217	2	38	9/26/2024 6:03:50 PM
123	CCV	0	3	9/26/2024 6:07:45 PM
124	CCB	0	4	9/26/2024 6:11:39 PM
125	L2454053-04 WG1975733	2	23	9/26/2024 6:37:47 PM
126	L2454053-05 WG1975733	2	24	9/26/2024 6:41:58 PM
127	L2454053-06 WG1975733	2	25	9/26/2024 6:45:54 PM
128	L2452542-01 WG1975733	2	27	9/26/2024 6:49:49 PM
129	L2454053-01d2 WG1975918	2	1	9/26/2024 6:53:44 PM
130	eL2454053-02d2 WG1975918	2	2	9/26/2024 6:57:38 PM
131	L2454053-03d2 WG1975918	2	3	9/26/2024 7:01:33 PM
132	L2454053-04d2 WG1975918	2	4	9/26/2024 7:05:27 PM
133	L2454053-05d2 WG1975918	2	5	9/26/2024 7:09:21 PM
134	eL2454053-06d2 WG1975918	2	6	9/26/2024 7:13:16 PM
135	CCV	0	3	9/26/2024 7:17:10 PM
136	CCB	0	4	9/26/2024 7:21:05 PM
137	L2454280-01 WG1975733	2	28	9/26/2024 7:25:00 PM
138	CCV	0	3	9/26/2024 7:28:55 PM
139	CCB	0	4	9/26/2024 7:32:50 PM
140	CCV	0	3	9/26/2024 7:36:45 PM
141	CCB	0	4	9/26/2024 7:40:40 PM
142	LLOQ	0	5	9/26/2024 7:44:35 PM

Sequence Trace 9

9/27/2024 11:27:56 AM

Sequence Trace 4

9/27/2024 7:18:43 PM

LabBook: WG1977137_09272024T4.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank JMF Trace4	0	1	9/27/2024 9:17:49 AM
2	ICAL	0	2	9/27/2024 9:24:12 AM
3	ICV	0	3	9/27/2024 9:30:11 AM
4	ICB	0	4	9/27/2024 9:36:14 AM
5	LLOQ	0	5	9/27/2024 9:42:40 AM
6	ICSA	0	6	9/27/2024 9:50:58 AM
7	zLLOQ 0.01ppm	1	1	9/27/2024 10:17:19 AM
8	LLOQ 0.005ppm As	1	2	9/27/2024 10:23:42 AM
9	LDR 400 Fe pass _IEC +Ni	1	3	9/27/2024 10:30:06 AM
10	LDR 500 Mg pass	1	4	9/27/2024 10:36:36 AM
11	LDR 500 Ca pass	1	5	9/27/2024 10:43:08 AM
12	LDR 800 Ca pass	1	6	9/27/2024 10:49:39 AM
13	SIC Multi	0	7	9/27/2024 11:11:07 AM
14	LDR Check	0	8	9/27/2024 11:18:05 AM
15	LDR 20 As pass	1	7	9/27/2024 11:41:09 AM
16	LDR 20 B pass	1	8	9/27/2024 11:47:33 AM
17	xLDR 400 Na	1	9	9/27/2024 11:53:58 AM
18	LDR 300 Na pass	1	10	9/27/2024 12:00:34 PM
19	LDR 20 Si pass	1	11	9/27/2024 12:07:10 PM
20	LDR 5 Mo pass	1	12	9/27/2024 12:13:37 PM
21	CCV	0	3	9/27/2024 12:26:12 PM
22	CCB	0	4	9/27/2024 12:32:15 PM
23	WG1976470-1 WG1976470	1	16	9/27/2024 12:47:50 PM
24	WG1976470-2D2 WG1976470	1	17	9/27/2024 12:54:14 PM
25	eL2452699-01 WG1975964	1	13	9/27/2024 1:00:26 PM
26	L2452699-03 WG1975964	1	14	9/27/2024 1:06:58 PM
27	L2454585-01 WG1975964	1	15	9/27/2024 1:13:25 PM
28	L2454222-01D2 WG1976470	1	18	9/27/2024 1:19:51 PM
29	WG1976470-3D2 WG1976470	1	19	9/27/2024 1:26:08 PM
30	WG1976470-4D2 WG1976470	1	20	9/27/2024 1:32:20 PM
31	WG1976470-5D2 WG1976470	1	21	9/27/2024 1:38:38 PM
32	WG1976470-6D10 WG1976470	1	22	9/27/2024 1:44:51 PM
33	CCV	0	3	9/27/2024 1:51:11 PM
34	CCB	0	4	9/27/2024 1:57:14 PM
35	L2452699-01D4 WG1975964	1	29	9/27/2024 2:13:42 PM
36	L2454333-01 WG1976262	1	45	9/27/2024 2:20:00 PM
37	L2454352-01 WG1976262	1	46	9/27/2024 2:26:26 PM
38	L2454222-02D2 WG1976470	1	23	9/27/2024 2:32:47 PM
39	L2454222-03D2 WG1976470	1	24	9/27/2024 2:39:01 PM
40	L2454222-04D2 WG1976470	1	25	9/27/2024 2:45:17 PM
41	L2454222-05D2 WG1976470	1	26	9/27/2024 2:51:33 PM
42	L2454222-06D2 WG1976470	1	27	9/27/2024 2:57:49 PM
43	L2454581-01D2 WG1976470	1	28	9/27/2024 3:04:00 PM
44	CCV	0	3	9/27/2024 3:10:17 PM
45	CCB	0	4	9/27/2024 3:16:21 PM
46	L2454206-01 WG1976262	1	35	9/27/2024 3:27:04 PM
47	L2454206-02 WG1976262	1	36	9/27/2024 3:33:24 PM
48	L2454206-03 WG1976262	1	37	9/27/2024 3:39:44 PM
49	L2454206-04 WG1976262	1	38	9/27/2024 3:46:02 PM
50	L2454206-06 WG1976262	1	39	9/27/2024 3:52:21 PM
51	L2454206-09 WG1976262	1	30	9/27/2024 3:58:39 PM
52	WG1976262-7 WG1976262	1	31	9/27/2024 4:04:54 PM
53	WG1976262-8 WG1976262	1	32	9/27/2024 4:11:05 PM
54	WG1976262-9 WG1976262	1	33	9/27/2024 4:17:15 PM
55	WG1976262-10D5 WG1976262	1	34	9/27/2024 4:23:26 PM
56	CCV	0	3	9/27/2024 4:29:46 PM
57	CCB	0	4	9/27/2024 4:35:48 PM
58	L2454206-07 WG1976262	1	40	9/27/2024 4:42:41 PM
59	L2454206-08 WG1976262	1	41	9/27/2024 4:48:57 PM
60	L2454206-10 WG1976262	1	42	9/27/2024 4:55:15 PM
61	L2454206-11 WG1976262	1	43	9/27/2024 5:01:36 PM
62	L2454206-12 WG1976262	1	44	9/27/2024 5:07:48 PM
63	CCV	0	3	9/27/2024 5:14:04 PM
64	CCB	0	4	9/27/2024 5:20:07 PM
65	L2454352-01 WG1976217	1	56	9/27/2024 5:29:12 PM
66	L2452544-01 WG1975268	1	47	9/27/2024 5:35:33 PM
67	L2452544-02 WG1975268	1	48	9/27/2024 5:42:38 PM
68	L2452544-03 WG1975268	1	49	9/27/2024 5:49:39 PM
69	L2452544-04 WG1975268	1	50	9/27/2024 5:56:53 PM
70	L2453514-01 WG1975268	1	51	9/27/2024 6:03:35 PM
71	L2453803-01 WG1975268	1	52	9/27/2024 6:09:51 PM
72	L2453810-01 WG1975268	1	53	9/27/2024 6:16:17 PM

Sequence Trace 4

9/27/2024 7:18:43 PM

Index:	Label:	Rack	Vial	Start time:
73	L2453812-01 WG1975268	1	54	9/27/2024 6:22:37 PM
74	xL2453897-01 WG1975268	1	55	9/27/2024 6:29:04 PM
75	CCV	0	3	9/27/2024 6:35:28 PM
76	CCB	0	4	9/27/2024 6:41:32 PM
77	L2453897-01D10 WG1975268	2	1	9/27/2024 6:57:34 PM
78	L2452544-01D2 WG1975268	1	57	9/27/2024 7:04:04 PM
79	L2452544-03D2 WG1975268	1	58	9/27/2024 7:11:03 PM
80	L2452544-03D20 WG1975268	1	59	
81	L2452544-04D2 WG1975268	1	60	
82		2	2	
83		2	3	
84		2	4	
85		2	5	
86	CCV	0	3	
87	CCB	0	4	
88	CCV	0	3	
89	CCB	0	4	
90	LLOQ	0	5	

METALS ELN REPORT

Workgroup: WG1976217

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHN0324381 80400CLH	1:1 HCl	tHCL243712 0918EFM	METALS	METSPIKE2	IPS,FPS,MIX	METSPIKE2	IPS,FPS,MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2453076-01 SAMP	09/25/24 17:23	Maisie Mcqueen	09-17-24 19:56	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2453908-01 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2453913-01 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454059-01 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454059-02 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454156-02 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454156-05 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454156-08 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454156-11 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454156-14 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454156-17 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454156-20 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454156-23 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
L2454156-26 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	

Reported: 27-SEP-24 08:43 PM

METALS ELN REPORT

Workgroup: WG1976217

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2454352-01 SAMP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
WG1976217-1 BLANK	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	FM2438201045 AJT
WG1976217-2 LCS	09/25/24 17:23	Maisie Mcqueen	NA	50	<2	0.5	09/25/24 17:23	7	95.1	09/25/24 20:23	50	IPS2433150405CLH
WG1976217-3 MS	09/25/24 17:23	Maisie Mcqueen	NA	50	<2	0.5	09/25/24 17:23	7	95.1	09/25/24 20:23	50	ELN:CME
WG1976217-4 DUP	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
WG1976217-5 PS	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	
WG1976217-6 SERDIL	09/25/24 17:23	Maisie Mcqueen	NA	50	<2		09/25/24 17:23	7	95.1	09/25/24 20:23	50	

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 27-SEP-24 08:43 PM

METALS ELN REPORT

Workgroup: WG1976262

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHN0324382 01155JDH	1:1 HCl	tHCL243421 0713CME	METALS	METSPIKE2	IPS,FPS,MIX	METSPIKE2	IPS,FPS,MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2453906-01 SAMP	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	
L2454206-01 SAMP	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	
L2454206-02 SAMP	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	
L2454206-03 SAMP	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	
L2454206-04 SAMP	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	
L2454206-05 SAMP	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	
L2454206-06 SAMP	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	
L2454206-07 SAMP	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	
L2454206-08 SAMP	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	
L2454206-09 SAMP	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	
L2454206-10 SAMP	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	
L2454206-11 SAMP	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	
L2454206-12 SAMP	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	
L2454333-01 SAMP	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	

METALS ELN REPORT

Workgroup: WG1976262

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2454352-01 SAMP	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	
L2454942-01 WATER	09/26/24 08:03	Joshua Holmes	10	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	5x dilution do to Matrix and PH
WG1976262-1 BLANK	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	FM2438201045 AJT
WG1976262-2 LCS	09/26/24 08:03	Joshua Holmes	50	<2	0.5	09/26/24 08:03	9	93.8	09/26/24 11:03	50	
WG1976262-3 MS	09/26/24 08:03	Joshua Holmes	50	<2	0.5	09/26/24 08:03	9	93.8	09/26/24 11:03	50	ELN CHECK: ADG
WG1976262-4 MSD	09/26/24 08:03	Joshua Holmes	50	<2	0.5	09/26/24 08:03	9	93.8	09/26/24 11:03	50	ELN: efm
WG1976262-5 PS	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	
WG1976262-6 SERDIL	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	
WG1976262-7 MS	09/26/24 08:03	Joshua Holmes	50	<2	0.5	09/26/24 08:03	9	93.8	09/26/24 11:03	50	
WG1976262-8 MSD	09/26/24 08:03	Joshua Holmes	50	<2	0.5	09/26/24 08:03	9	93.8	09/26/24 11:03	50	
WG1976262-9 PS	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	
WG1976262-10 SERDIL	09/26/24 08:03	Joshua Holmes	50	<2		09/26/24 08:03	9	93.8	09/26/24 11:03	50	IPS2433150405CLH

Reported: 27-SEP-24 08:43 PM

METALS ELN REPORT

Workgroup: WG1976262

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 27-SEP-24 08:43 PM

Inorganic Data
(Mercury Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/26/24 13:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1976486.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976221-1	**Date Collected**	: NA
Client ID	: WG1976221-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/26/24 13:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1976486.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976221-4	**Date Collected**	: 09/19/24 09:30
Client ID	: WG1976221-4 DUP	**Date Received**	: 09/19/24
Sample Location	:	**Date Analyzed**	: 09/26/24 13:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1976486.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.0001	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 15:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1977003.pdf	**Instrument ID**	: NIC4
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976267-1	**Date Collected**	: NA
Client ID	: WG1976267-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/27/24 13:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1977003.pdf	**Instrument ID**	: NIC4
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1880493-1			R1880493-3			R1880493-5		R1880493-7	
Date Analyzed :	09/26/24 07:08			09/26/24 08:45			09/26/24 10:21		09/26/24 12:01	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0031	104	0.0050	0.00500	100	0.00500	101	0.00510	102

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1880493-9			R1880493-11			
Date Analyzed :				09/26/24 12:49			09/26/24 13:28			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				**0.0050**	**0.00510**	**102**	**0.00510**	**101**		

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC4	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1881029-1			R1881029-3			R1881029-5		R1881029-7	
Date Analyzed :	09/27/24 06:54			09/27/24 08:34			09/27/24 09:58		09/27/24 10:44	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0029	97	0.0050	0.00480	97	0.00480	97	0.00480	96

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC4	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1881029-9			R1881029-11		R1881029-13	
Date Analyzed :				09/27/24 12:22			09/27/24 13:34		09/27/24 14:20	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00490	97	0.00480	96	0.00490	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC4	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1881029-15			R1881029-17			
Date Analyzed :				09/27/24 15:01			09/27/24 15:16			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				**0.0050**	**0.00490**	**98**	**0.00490**	**98**		

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1880493-2		R1880493-4		R1880493-6		R1880493-8		WG1976221-1	
Date Analyzed :	09/26/24 07:12		09/26/24 08:48		09/26/24 10:25		09/26/24 12:05		09/26/24 13:05	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000910	U	0.0000910	U	0.0000910	U	0.0000910	U	0.00009	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1880493-10		R1880493-12					
Date Analyzed :			09/26/24 12:52		09/26/24 13:32					
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000910	U	0.0000910	U				

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC4		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1881029-2		R1881029-4		R1881029-6		R1881029-8		WG1976267-1	
Date Analyzed :	09/27/24 06:58		09/27/24 08:37		09/27/24 10:01		09/27/24 10:47		09/27/24 13:27	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000910	U	0.0000910	U	0.0000910	U	0.0000910	U	0.00009	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC4		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1881029-10		R1881029-12		R1881029-14			
Date Analyzed :			09/27/24 12:26		09/27/24 13:37		09/27/24 14:23			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000910	U	0.0000910	U	0.0000910	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC4		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1881029-16		R1881029-18					
Date Analyzed :			09/27/24 15:05		09/27/24 15:20					
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000910	U	0.0000910	U				

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2454059-02		
Matrix Spike	: WG1976221-3	**MS Analysis Date**	: 09/26/24 13:15
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Dissolved	ND	0.005	0.00472	94					75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2454206-05		
Matrix Spike	: WG1976267-3	**MS Analysis Date**	: 09/27/24 13:50
Matrix Spike Dup	: WG1976267-4	**MSD Analysis Date**	: 09/27/24 13:53

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Total	ND	0.005	0.00423	85	0.005	0.00437	88	3	70-130	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2454206-09		
Matrix Spike	: WG1976267-5	**MS Analysis Date**	: 09/27/24 14:00
Matrix Spike Dup	: WG1976267-6	**MSD Analysis Date**	: 09/27/24 14:03

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	**ND**	**0.005**	**0.00446**	**89**	**0.005**	**0.00453**	**91**	**1**	**70-130**	**20**

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/26/24 13:12
Dup Sample ID	: WG1976221-4	**DUP Analysis Date**	: 09/26/24 13:19

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Dissolved	ND	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1976221-2	**LCS Analysis Date**	: 09/26/24 13:09
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Dissolved	**0.00100**	**0.000960**	**96.**					**85-115**	**20**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1976267-2	**LCS Analysis Date**	: 09/27/24 15:08
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	**0.00100**	**0.000870**	**87.**					**85-115**	**20**

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2454352-01	09/25/24 20:15	-	25
WG1976221-1	09/25/24 20:15	-	25
WG1976221-2	09/25/24 20:15	-	25
WG1976221-3	09/25/24 20:15	-	25
WG1976221-4	09/25/24 20:15	-	25

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2454352-01	09/26/24 09:11	-	25
WG1976267-1	09/26/24 09:11	-	25
WG1976267-2	09/26/24 09:11	-	25
WG1976267-3	09/26/24 09:11	-	25
WG1976267-4	09/26/24 09:11	-	25
WG1976267-5	09/26/24 09:11	-	25
WG1976267-6	09/26/24 09:11	-	25

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Analysis Method**	: 3,245.1
Start Date	: 09/26/24 07:08	**End Date**	: 09/26/24 13:32

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
R1880493-1 ICV	1	07:08:42	X
R1880493-2 ICB	1	07:12:01	X
R1880493-3 CCV	1	08:45:16	X
R1880493-4 CCB	1	08:48:35	X
R1880493-5 CCV	1	10:21:41	X
R1880493-6 CCB	1	10:25:00	X
R1880493-7 CCV	1	12:01:59	X
R1880493-8 CCB	1	12:05:18	X
R1880493-9 CCV	1	12:49:20	X
R1880493-10 CCB	1	12:52:38	X
WG1976221-1 BLANK	1	13:05:50	X
WG1976221-2 LCS	1	13:09:07	X
WG1976221-3 MS	1	13:15:43	X
WG1976221-4 DUP	1	13:19:01	X
L2454352-01	1	13:25:37	X
R1880493-11 CCV	1	13:28:55	X
R1880493-12 CCB	1	13:32:13	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC4	**Analysis Method**	: 3,245.1
Start Date	: 09/27/24 06:54	**End Date**	: 09/27/24 15:20

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1881029-1 ICV	1	06:54:51	X
R1881029-2 ICB	1	06:58:11	X
R1881029-3 CCV	1	08:34:28	X
R1881029-4 CCB	1	08:37:48	X
R1881029-5 CCV	1	09:58:29	X
R1881029-6 CCB	1	10:01:47	X
R1881029-7 CCV	1	10:44:22	X
R1881029-8 CCB	1	10:47:40	X
R1881029-9 CCV	1	12:22:58	X
R1881029-10 CCB	1	12:26:16	X
WG1976267-1 BLANK	1	13:27:26	X
R1881029-11 CCV	1	13:34:02	X
R1881029-12 CCB	1	13:37:21	X
WG1976267-3 MS	1	13:50:26	X
WG1976267-4 MSD	1	13:53:44	X
WG1976267-5 MS	1	14:00:19	X
WG1976267-6 MSD	1	14:03:37	X
R1881029-13 CCV	1	14:20:07	X
R1881029-14 CCB	1	14:23:24	X
R1881029-15 CCV	1	15:01:58	X
R1881029-16 CCB	1	15:05:18	X
WG1976267-2 LCS	1	15:08:49	X
L2454352-01	1	15:12:09	X
R1881029-17 CCV	1	15:16:42	X
R1881029-18 CCB	1	15:20:02	X

Date Created: 03/19/18
Created By: Jason Hebert
File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

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

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File: PM9836-1
Page: 1

METALS by 7470A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120		75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

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

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Created By: Jason Hebert
File: PM9837-1
Page: 1

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	72-128		80-120	20	20		28 days	Metals Only-Glass 60mL/2oz unpreserv

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

Title :
Date : 09/26/2024
Name :

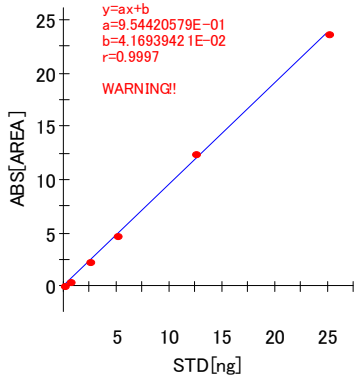
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.0445	0.0029	-	09/26/2024 06:27	JWN,NIC3
2	0.200	2.500	2.500	2.500	0.500	0.4868	0.4664	6.7	09/26/2024 06:30	JWN,NIC3
3	1.000	2.500	2.500	2.500	2.500	2.3165	2.3834	4.7	09/26/2024 06:34	JWN,NIC3
4	2.000	2.500	2.500	2.500	5.000	4.7003	4.8811	2.4	09/26/2024 06:37	JWN,NIC3
5	5.000	2.500	2.500	2.500	12.500	12.4111	12.9601	3.7	09/26/2024 06:40	JWN,NIC3
6	10.000	2.500	2.500	2.500	25.000	23.7171	24.8061	0.8	09/26/2024 06:57	JWN,NIC3

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	XICV	2.500	2.500	2.500	6.5698	6.8399	2.736	-	09/26/2024 07:00	JWN,NIC3
2	XICB	2.500	2.500	2.500	0.0585	0.0176	0.007	-	09/26/2024 07:03	JWN,NIC3
3	ICV	2.500	2.500	2.500	7.5037	7.8184	3.127	-	09/26/2024 07:08	JWN,NIC3
4	ICB	2.500	2.500	2.500	0.0548	0.0137	0.005	-	09/26/2024 07:12	JWN,NIC3
5	0.2PPB	2.500	2.500	2.500	0.5219	0.5031	0.201	-	09/26/2024 07:16	JWN,NIC3
6	WG1976277-1 WG1976277	2.500	2.500	2.500	0.0587	0.0178	0.007	-	09/26/2024 08:10	JWN,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	WG1976277-2 WG1976277	2.500	2.500	2.500	2.1619	2.2215	0.889	-	09/26/2024 08:13	JWN,NIC3
8	L2454653-01 WG1976277	2.500	2.500	2.500	0.0892	0.0498	0.020	-	09/26/2024 08:16	JWN,NIC3
9	WG1976277-3 WG1976277	2.500	2.500	2.500	11.1227	11.6102	4.644	-	09/26/2024 08:20	JWN,NIC3
10	WG1976277-4 WG1976277	2.500	2.500	2.500	0.1155	0.0773	0.031	-	09/26/2024 08:23	JWN,NIC3
11	L2453692-10 WG1975263	2.500	2.500	2.500	0.0933	0.0541	0.022	-	09/26/2024 08:26	JWN,NIC3
12	L2453795-01 WG1975263	2.500	2.500	2.500	0.0935	0.0543	0.022	-	09/26/2024 08:30	JWN,NIC3
13	L2453915-02 WG1975263	2.500	2.500	2.500	0.0880	0.0485	0.019	-	09/26/2024 08:33	JWN,NIC3
14	Check STD(5ug/L)	2.500	2.500	2.500	11.9982	12.5275	5.011	100.2	09/26/2024 08:45	JWN,NIC3
15	Check Blank	2.500	2.500	2.500	0.0543	0.0132	0.005	-	09/26/2024 08:48	JWN,NIC3
16	WG1975760-1 WG1975760	2.500	2.500	2.500	0.0499	0.0086	0.003	-	09/26/2024 09:15	JWN,NIC3
17	WG1975760-2 WG1975760	2.500	2.500	2.500	2.2760	2.3410	0.936	-	09/26/2024 09:18	JWN,NIC3
18	L2454054-37 WG1975760	2.500	2.500	2.500	0.0608	0.0200	0.008	-	09/26/2024 09:21	JWN,NIC3
19	WG1975760-3 WG1975760	2.500	2.500	2.500	11.3452	11.8433	4.737	-	09/26/2024 09:25	JWN,NIC3
20	WG1975760-4 WG1975760	2.500	2.500	2.500	0.0647	0.0241	0.010	-	09/26/2024 09:28	JWN,NIC3
21	WG1976243-1 WG1976243	2.500	2.500	2.500	0.0640	0.0234	0.009	-	09/26/2024 10:05	JWN,NIC3
22	WG1976243-2 WG1976243	2.500	2.500	2.500	2.1016	2.1583	0.863	-	09/26/2024 10:08	JWN,NIC3
23	L2454087-01 WG1976243	2.500	2.500	2.500	3.7325	3.8671	1.547	-	09/26/2024 10:11	JWN,NIC3
24	WG1976243-3 WG1976243	2.500	2.500	2.500	15.0134	15.6867	6.275	-	09/26/2024 10:15	JWN,NIC3
25	WG1976243-4 WG1976243	2.500	2.500	2.500	3.5069	3.6307	1.452	-	09/26/2024 10:18	JWN,NIC3
26	Check STD(5ug/L)	2.500	2.500	2.500	12.0617	12.5940	5.038	100.8	09/26/2024 10:21	JWN,NIC3
27	Check Blank	2.500	2.500	2.500	0.0540	0.0129	0.005	-	09/26/2024 10:25	JWN,NIC3
28	L2454014-03 WG1976243	2.500	2.500	2.500	0.0616	0.0209	0.008	-	09/26/2024 10:29	JWN,NIC3
29	L2454278-01 WG1976243	2.500	2.500	2.500	0.2171	0.1838	0.074	-	09/26/2024 10:32	JWN,NIC3
30	L2454289-12 WG1976243	2.500	2.500	2.500	0.0587	0.0178	0.007	-	09/26/2024 10:35	JWN,NIC3
31	L2454406-01 WG1976243	2.500	2.500	2.500	0.0687	0.0283	0.011	-	09/26/2024 10:39	JWN,NIC3
32	WG1975633-1 WG1975633	2.500	2.500	2.500	0.0968	0.0577	0.023	-	09/26/2024 11:42	JWN,NIC3
33	WG1975633-2 WG1975633	2.500	2.500	2.500	2.2876	2.3532	0.941	-	09/26/2024 11:45	JWN,NIC3
34	L2453613-02 WG1975633	2.500	2.500	2.500	0.1252	0.0875	0.035	-	09/26/2024 11:48	JWN,NIC3
35	WG1975633-3 WG1975633	2.500	2.500	2.500	10.4563	10.9120	4.365	-	09/26/2024 11:52	JWN,NIC3
36	WG1975633-4 WG1975633	2.500	2.500	2.500	11.7171	12.2330	4.893	-	09/26/2024 11:55	JWN,NIC3
37	L2453613-01 WG1975633	2.500	2.500	2.500	0.1115	0.0731	0.029	-	09/26/2024 11:58	JWN,NIC3
38	Check STD(5ug/L)	2.500	2.500	2.500	12.2452	12.7863	5.115	102.3	09/26/2024 12:01	JWN,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	Check Blank	2.500	2.500	2.500	0.0492	0.0079	0.003	-	09/26/2024 12:05	JWN,NIC3
40	L2453613-03 WG1975633	2.500	2.500	2.500	0.1266	0.0890	0.036	-	09/26/2024 12:16	JWN,NIC3
41	L2453613-04 WG1975633	2.500	2.500	2.500	0.1585	0.1224	0.049	-	09/26/2024 12:19	JWN,NIC3
42	L2453613-05 WG1975633	2.500	2.500	2.500	0.1785	0.1433	0.057	-	09/26/2024 12:22	JWN,NIC3
43	L2453613-06 WG1975633	2.500	2.500	2.500	0.2416	0.2095	0.084	-	09/26/2024 12:26	JWN,NIC3
44	L2453613-07 WG1975633	2.500	2.500	2.500	0.2283	0.1955	0.078	-	09/26/2024 12:29	JWN,NIC3
45	L2453613-08 WG1975633	2.500	2.500	2.500	0.2941	0.2645	0.106	-	09/26/2024 12:32	JWN,NIC3
46	L2453613-09 WG1975633	2.500	2.500	2.500	0.3110	0.2822	0.113	-	09/26/2024 12:36	JWN,NIC3
47	L2453613-10 WG1975633	2.500	2.500	2.500	0.3893	0.3642	0.146	-	09/26/2024 12:39	JWN,NIC3
48	L2453613-11 WG1975633	2.500	2.500	2.500	0.4420	0.4194	0.168	-	09/26/2024 12:42	JWN,NIC3
49	L2454050-01 WG1975633	2.500	2.500	2.500	0.2159	0.1825	0.073	-	09/26/2024 12:46	JWN,NIC3
50	Check STD(5ug/L)	2.500	2.500	2.500	12.2531	12.7946	5.118	102.4	09/26/2024 12:49	JWN,NIC3
51	Check Blank	2.500	2.500	2.500	0.0483	0.0069	0.003	-	09/26/2024 12:52	JWN,NIC3
52	L2454050-02 WG1975633	2.500	2.500	2.500	0.1007	0.0618	0.025	-	09/26/2024 12:55	JWN,NIC3
53	L2454050-03 WG1975633	2.500	2.500	2.500	0.1146	0.0764	0.031	-	09/26/2024 12:59	JWN,NIC3
54	L2454050-04 WG1975633	2.500	2.500	2.500	0.1352	0.0980	0.039	-	09/26/2024 13:02	JWN,NIC3
55	WG1976221-1 WG1976221	2.500	2.500	2.500	0.0719	0.0316	0.013	-	09/26/2024 13:05	JWN,NIC3
56	WG1976221-2 WG1976221	2.500	2.500	2.500	2.3315	2.3992	0.960	-	09/26/2024 13:09	JWN,NIC3
57	L2454059-02 WG1976221	2.500	2.500	2.500	0.2100	0.1763	0.071	-	09/26/2024 13:12	JWN,NIC3
58	WG1976221-3 WG1976221	2.500	2.500	2.500	11.3212	11.8182	4.727	-	09/26/2024 13:15	JWN,NIC3
59	WG1976221-4 WG1976221	2.500	2.500	2.500	0.0479	0.0065	0.003	-	09/26/2024 13:19	JWN,NIC3
60	L2454059-01 WG1976221	2.500	2.500	2.500	0.0459	0.0044	0.002	-	09/26/2024 13:22	JWN,NIC3
61	L2454352-01 WG1976221	2.500	2.500	2.500	0.0603	0.0195	0.008	-	09/26/2024 13:25	JWN,NIC3
62	Check STD(5ug/L)	2.500	2.500	2.500	12.0926	12.6264	5.051	101.0	09/26/2024 13:28	JWN,NIC3
63	Check Blank	2.500	2.500	2.500	0.0502	0.0089	0.004	-	09/26/2024 13:32	JWN,NIC3
64	WG1976164-1 WG1976164	2.500	2.500	2.500	0.0298	-0.0125	-0.005	-	09/26/2024 13:35	JWN,NIC3
65	WG1976164-2 WG1976164	2.500	2.500	2.500	2.3022	2.3685	0.947	-	09/26/2024 13:38	JWN,NIC3
66	L2454092-01 WG1976164	2.500	2.500	2.500	0.0395	-0.0023	-0.001	-	09/26/2024 13:42	JWN,NIC3
67	WG1976164-3 WG1976164	2.500	2.500	2.500	10.9251	11.4032	4.561	-	09/26/2024 13:45	JWN,NIC3
68	WG1976164-4 WG1976164	2.500	2.500	2.500	11.0746	11.5598	4.624	-	09/26/2024 13:48	JWN,NIC3
69	L2454092-02 WG1976164	2.500	2.500	2.500	0.0353	-0.0067	-0.003	-	09/26/2024 13:52	JWN,NIC3
70	L2454092-03 WG1976164	2.500	2.500	2.500	0.0344	-0.0076	-0.003	-	09/26/2024 13:55	JWN,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	L2454092-05 WG1976164	2.500	2.500	2.500	0.0299	-0.0124	-0.005	-	09/26/2024 13:58	JWN,NIC3
72	WG1975973-1 WG1975973	2.500	2.500	2.500	0.0375	-0.0044	-0.002	-	09/26/2024 14:07	JWN,NIC3
73	WG1975973-2 WG1975973	2.500	2.500	2.500	2.3263	2.3937	0.957	-	09/26/2024 14:10	JWN,NIC3
74	Check STD(5ug/L)	2.500	2.500	2.500	12.0659	12.5984	5.039	100.8	09/26/2024 14:13	JWN,NIC3
75	Check Blank	2.500	2.500	2.500	0.0507	0.0094	0.004	-	09/26/2024 14:17	JWN,NIC3
76	I2453652-01 WG1975973	2.500	2.500	2.500	1.2257	1.2405	0.496	-	09/26/2024 14:20	JWN,NIC3
77	WG1975973-3 WG1975973	2.500	2.500	2.500	12.6756	13.2373	5.295	-	09/26/2024 14:23	JWN,NIC3
78	WG1975973-4 WG1975973	2.500	2.500	2.500	1.2231	1.2378	0.495	-	09/26/2024 14:27	JWN,NIC3
79	I2454059-01 WG1975973	2.500	2.500	2.500	0.0454	0.0039	0.002	-	09/26/2024 14:30	JWN,NIC3
80	I2454059-02 WG1975973	2.500	2.500	2.500	0.0454	0.0039	0.002	-	09/26/2024 14:33	JWN,NIC3
81	I2454081-01 WG1975973	2.500	2.500	2.500	0.0551	0.0140	0.006	-	09/26/2024 14:37	JWN,NIC3
82	I2454081-02 WG1975973	2.500	2.500	2.500	0.0579	0.0170	0.007	-	09/26/2024 14:40	JWN,NIC3
83	wg1976678-1 wg1976678	2.500	2.500	2.500	0.1107	0.0723	0.029	-	09/26/2024 15:05	JWN,NIC3
84	wg1976678-2 wg1976678	2.500	2.500	2.500	2.7710	2.8596	1.144	-	09/26/2024 15:09	JWN,NIC3
85	L2454653-03 wg1976678	2.500	2.500	2.500	0.1270	0.0894	0.036	-	09/26/2024 15:12	JWN,NIC3
86	Check STD(5ug/L)	2.500	2.500	2.500	11.4902	11.9952	4.798	96.0	09/26/2024 15:15	JWN,NIC3
87	Check Blank	2.500	2.500	2.500	0.0523	0.0111	0.004	-	09/26/2024 15:19	JWN,NIC3
88	wg1976678-3 wg1976678	2.500	2.500	2.500	10.9477	11.4268	4.571	-	09/26/2024 15:22	JWN,NIC3
89	wg1976678-4 wg1976678	2.500	2.500	2.500	0.1838	0.1489	0.060	-	09/26/2024 15:25	JWN,NIC3
90	wg1976695-1 wg1976695	2.500	2.500	2.500	0.0683	0.0279	0.011	-	09/26/2024 15:29	JWN,NIC3
91	wg1976695-2 wg1976695	2.500	2.500	2.500	2.3505	2.4191	0.968	-	09/26/2024 15:32	JWN,NIC3
92	L2454994-01 wg1976695	2.500	2.500	2.500	0.0455	0.0040	0.002	-	09/26/2024 15:35	JWN,NIC3
93	wg1976695-3 wg1976695	2.500	2.500	2.500	11.3919	11.8922	4.757	-	09/26/2024 15:38	JWN,NIC3
94	wg1976695-4 wg1976695	2.500	2.500	2.500	0.0450	0.0035	0.001	-	09/26/2024 15:42	JWN,NIC3
95	Check STD(5ug/L)	2.500	2.500	2.500	11.7287	12.2451	4.898	98.0	09/26/2024 15:46	JWN,NIC3
96	Check Blank	2.500	2.500	2.500	0.0544	0.0133	0.005	-	09/26/2024 15:49	JWN,NIC3
97	WG1976280-1 WG1976280	2.500	2.500	2.500	0.0469	0.0055	0.002	-	09/26/2024 15:56	DJR,NIC3
98	WG1976280-2 WG1976280	2.500	2.500	2.500	2.1459	2.2047	0.882	-	09/26/2024 16:00	DJR,NIC3
99	L2454653-02 WG1976280	2.500	2.500	2.500	0.3072	0.2782	0.111	-	09/26/2024 16:03	DJR,NIC3
100	WG1976280-3 WG1976280	2.500	2.500	2.500	10.9778	11.4584	4.583	-	09/26/2024 16:06	DJR,NIC3
101	WG1976280-4 WG1976280	2.500	2.500	2.500	0.8390	0.8354	0.334	-	09/26/2024 16:10	DJR,NIC3
102	xWG1976280-4 WG1976280	2.500	2.500	2.500	0.8427	0.8393	0.336	-	09/26/2024 16:14	DJR,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	Check STD(5ug/L)	2.500	2.500	2.500	11.7095	12.2250	4.890	97.8	09/26/2024 16:17	DJR,NIC3
104	Check Blank	2.500	2.500	2.500	0.0490	0.0077	0.003	-	09/26/2024 16:20	DJR,NIC3

Title :
Date : 9/27/2024
Name :

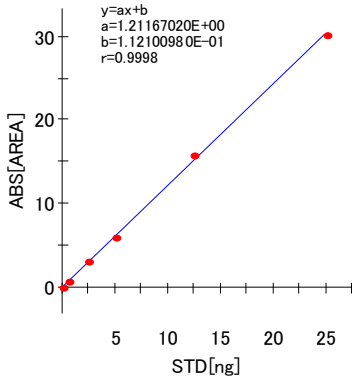
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.0606	-0.0425	-	09/27/2024 06:25	JWN,NIC4
2	0.200	2.500	2.500	2.500	0.500	0.7056	0.4898	2.0	09/27/2024 06:28	JWN,NIC4
3	1.000	2.500	2.500	2.500	2.500	3.1045	2.4696	1.2	09/27/2024 06:32	JWN,NIC4
4	2.000	2.500	2.500	2.500	5.000	5.9983	4.8579	2.8	09/27/2024 06:35	JWN,NIC4
5	5.000	2.500	2.500	2.500	12.500	15.726	12.8869	3.1	09/27/2024 06:38	JWN,NIC4
6	10.000	2.500	2.500	2.500	25.000	30.207	24.8382	0.6	09/27/2024 06:42	JWN,NIC4

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	8.9501	7.2941	2.918	-	09/27/2024 06:54	JWN,NIC4
2	ICB	2.500	2.500	2.500	0.0653	-0.0386	-0.015	-	09/27/2024 06:58	JWN,NIC4
3	0.2 PPB	2.500	2.500	2.500	0.7983	0.5663	0.227	-	09/27/2024 07:02	JWN,NIC4
4	WG1976565-1 WG1976565	2.500	2.500	2.500	0.0604	-0.0427	-0.017	-	09/27/2024 07:32	JWN,NIC4
5	WG1976565-2 WG1976565	2.500	2.500	2.500	2.7245	2.1560	0.862	-	09/27/2024 07:35	JWN,NIC4
6	L2454319-01 WG1976565	2.500	2.500	2.500	0.0794	-0.0270	-0.011	-	09/27/2024 07:38	JWN,NIC4

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	WG1976565-3 WG1976565	2.500	2.500	2.500	13.2676	10.8573	4.343	-	09/27/2024 07:42	JWN,NIC4
8	WG1976565-4 WG1976565	2.500	2.500	2.500	0.0791	-0.0272	-0.011	-	09/27/2024 07:45	JWN,NIC4
9	L2455026-01 WG1976565	2.500	2.500	2.500	0.1178	0.0047	0.002	-	09/27/2024 07:48	JWN,NIC4
10	L2455026-02 WG1976565	2.500	2.500	2.500	0.1549	0.0353	0.014	-	09/27/2024 07:52	JWN,NIC4
11	WG1976806-1 WG1976806	2.500	2.500	2.500	0.3087	0.1623	0.065	-	09/27/2024 08:27	JWN,NIC4
12	WG1976806-2 WG1976806	2.500	2.500	2.500	3.2772	2.6122	1.045	-	09/27/2024 08:31	JWN,NIC4
13	Check STD(5ug/L)	2.500	2.500	2.500	14.7692	12.0966	4.839	96.8	09/27/2024 08:34	JWN,NIC4
14	Check Blank	2.500	2.500	2.500	0.0662	-0.0379	-0.015	-	09/27/2024 08:37	JWN,NIC4
15	L2454544-01 WG1976806	2.500	2.500	2.500	0.3426	0.1902	0.076	-	09/27/2024 08:41	JWN,NIC4
16	WG1976806-3 WG1976806	2.500	2.500	2.500	14.9154	12.2173	4.887	-	09/27/2024 08:44	JWN,NIC4
17	WG1976806-4 WG1976806	2.500	2.500	2.500	0.3355	0.1844	0.074	-	09/27/2024 08:48	JWN,NIC4
18	L2454706-01 WG1976806	2.500	2.500	2.500	0.3043	0.1586	0.063	-	09/27/2024 08:51	JWN,NIC4
19	WG1976591-1 WG1976591	2.500	2.500	2.500	0.0675	-0.0368	-0.015	-	09/27/2024 09:38	JWN,NIC4
20	WG1976591-2 WG1976591	2.500	2.500	2.500	2.5389	2.0029	0.801	-	09/27/2024 09:41	JWN,NIC4
21	L2454227-06 WG1976591	2.500	2.500	2.500	0.0962	-0.0131	-0.005	-	09/27/2024 09:45	JWN,NIC4
22	WG1976591-3 WG1976591	2.500	2.500	2.500	13.5207	11.0662	4.426	-	09/27/2024 09:48	JWN,NIC4
23	WG1976591-4 WG1976591	2.500	2.500	2.500	12.7768	10.4523	4.181	-	09/27/2024 09:51	JWN,NIC4
24	L2454075-02 WG1976591	2.500	2.500	2.500	0.3242	0.1750	0.070	-	09/27/2024 09:55	JWN,NIC4
25	Check STD(5ug/L)	2.500	2.500	2.500	14.7727	12.0995	4.840	96.8	09/27/2024 09:58	JWN,NIC4
26	Check Blank	2.500	2.500	2.500	0.0560	-0.0463	-0.019	-	09/27/2024 10:01	JWN,NIC4
27	L2454402-01 WG1976591	2.500	2.500	2.500	0.1892	0.0636	0.025	-	09/27/2024 10:05	JWN,NIC4
28	L2454402-02 WG1976591	2.500	2.500	2.500	0.2900	0.1468	0.059	-	09/27/2024 10:08	JWN,NIC4
29	L2454402-03 WG1976591	2.500	2.500	2.500	0.2703	0.1306	0.052	-	09/27/2024 10:12	JWN,NIC4
30	L2454402-05 WG1976591	2.500	2.500	2.500	0.1154	0.0027	0.001	-	09/27/2024 10:15	JWN,NIC4
31	L2454431-01 WG1976591	2.500	2.500	2.500	0.1234	0.0093	0.004	-	09/27/2024 10:18	JWN,NIC4
32	L2454431-02 WG1976591	2.500	2.500	2.500	0.1388	0.0220	0.009	-	09/27/2024 10:22	JWN,NIC4
33	L2454431-03 WG1976591	2.500	2.500	2.500	0.1535	0.0342	0.014	-	09/27/2024 10:25	JWN,NIC4
34	L2455026-01 WG1976591	2.500	2.500	2.500	0.1779	0.0543	0.022	-	09/27/2024 10:28	JWN,NIC4
35	L2455026-02 WG1976591	2.500	2.500	2.500	0.1006	-0.0095	-0.004	-	09/27/2024 10:31	JWN,NIC4
36	Check STD(5ug/L)	2.500	2.500	2.500	14.6578	12.0047	4.802	96.0	09/27/2024 10:44	JWN,NIC4
37	Check Blank	2.500	2.500	2.500	0.0543	-0.0477	-0.019	-	09/27/2024 10:47	JWN,NIC4
38	WG1976706-1 WG1976706	2.500	2.500	2.500	0.1037	-0.0069	-0.003	-	09/27/2024 11:49	JWN,NIC4

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	WG1976706-2 WG1976706	2.500	2.500	2.500	2.9478	2.3403	0.936	-	09/27/2024 11:53	JWN,NIC4
40	L2454206-05 WG1976706	2.500	2.500	2.500	0.1396	0.0227	0.009	-	09/27/2024 11:56	JWN,NIC4
41	WG1976706-3 WG1976706	2.500	2.500	2.500	13.764	11.2677	4.507	-	09/27/2024 11:59	JWN,NIC4
42	WG1976706-4 WG1976706	2.500	2.500	2.500	13.547	11.0880	4.435	-	09/27/2024 12:03	JWN,NIC4
43	L2454206-09 WG1976706	2.500	2.500	2.500	0.1134	0.0011	0.000	-	09/27/2024 12:06	JWN,NIC4
44	WG1976706-5 WG1976706	2.500	2.500	2.500	13.086	10.7077	4.283	-	09/27/2024 12:09	JWN,NIC4
45	WG1976706-6 WG1976706	2.500	2.500	2.500	13.432	10.9937	4.397	-	09/27/2024 12:13	JWN,NIC4
46	L2454206-01 WG1976706	2.500	2.500	2.500	0.1296	0.0144	0.006	-	09/27/2024 12:16	JWN,NIC4
47	L2454206-02 WG1976706	2.500	2.500	2.500	0.1129	0.0007	0.000	-	09/27/2024 12:19	JWN,NIC4
48	Check STD(5ug/L)	2.500	2.500	2.500	14.819	12.1379	4.855	97.1	09/27/2024 12:22	JWN,NIC4
49	Check Blank	2.500	2.500	2.500	0.0487	-0.0523	-0.021	-	09/27/2024 12:26	JWN,NIC4
50	L2454206-03 WG1976706	2.500	2.500	2.500	0.1294	0.0143	0.006	-	09/27/2024 12:30	JWN,NIC4
51	L2454206-04 WG1976706	2.500	2.500	2.500	0.1237	0.0096	0.004	-	09/27/2024 12:33	JWN,NIC4
52	L2454206-06 WG1976706	2.500	2.500	2.500	1.2314	0.9238	0.370	-	09/27/2024 12:36	JWN,NIC4
53	L2454206-07 WG1976706	2.500	2.500	2.500	0.9178	0.6649	0.266	-	09/27/2024 12:39	JWN,NIC4
54	L2454206-08 WG1976706	2.500	2.500	2.500	0.5593	0.3691	0.148	-	09/27/2024 12:43	JWN,NIC4
55	L2454206-10 WG1976706	2.500	2.500	2.500	0.2138	0.0839	0.034	-	09/27/2024 12:46	JWN,NIC4
56	L2454206-11 WG1976706	2.500	2.500	2.500	0.1548	0.0352	0.014	-	09/27/2024 12:49	JWN,NIC4
57	L2454206-12 WG1976706	2.500	2.500	2.500	0.1943	0.0678	0.027	-	09/27/2024 12:53	JWN,NIC4
58	WG1976267-1 WG1976267	2.500	2.500	2.500	0.0126	-0.0821	-0.033	-	09/27/2024 13:27	JWN,NIC4
59	xWG1976267-2 WG1976267	2.500	2.500	2.500	1.7817	1.3779	0.551	-	09/27/2024 13:30	JWN,NIC4
60	Check STD(5ug/L)	2.500	2.500	2.500	14.663	12.0096	4.804	96.1	09/27/2024 13:34	JWN,NIC4
61	Check Blank	2.500	2.500	2.500	0.0423	-0.0576	-0.023	-	09/27/2024 13:37	JWN,NIC4
62	L2454206-05 WG1976267	2.500	2.500	2.500	0.1193	0.0059	0.002	-	09/27/2024 13:47	JWN,NIC4
63	WG1976267-3 WG1976267	2.500	2.500	2.500	12.929	10.5781	4.231	-	09/27/2024 13:50	JWN,NIC4
64	WG1976267-4 WG1976267	2.500	2.500	2.500	13.377	10.9483	4.379	-	09/27/2024 13:53	JWN,NIC4
65	L2454206-09 WG1976267	2.500	2.500	2.500	0.0929	-0.0158	-0.006	-	09/27/2024 13:57	JWN,NIC4
66	WG1976267-5 WG1976267	2.500	2.500	2.500	13.630	11.1571	4.463	-	09/27/2024 14:00	JWN,NIC4
67	WG1976267-6 WG1976267	2.500	2.500	2.500	13.835	11.3262	4.530	-	09/27/2024 14:03	JWN,NIC4
68	L2453906-01 WG1976267	2.500	2.500	2.500	0.1075	-0.0038	-0.002	-	09/27/2024 14:06	JWN,NIC4
69	L2454045-01 WG1976267	2.500	2.500	2.500	0.1191	0.0058	0.002	-	09/27/2024 14:10	JWN,NIC4
70	L2454045-02 WG1976267	2.500	2.500	2.500	0.0966	-0.0128	-0.005	-	09/27/2024 14:13	JWN,NIC4

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	L2454206-01 WG1976267	2.500	2.500	2.500	0.0915	-0.0170	-0.007	-	09/27/2024 14:16	JWN,NIC4
72	Check STD(5ug/L)	2.500	2.500	2.500	15.056(	12.3333	4.933	98.7	09/27/2024 14:20	JWN,NIC4
73	Check Blank	2.500	2.500	2.500	0.0458	-0.0547	-0.022	-	09/27/2024 14:23	JWN,NIC4
74	L2454206-02 WG1976267	2.500	2.500	2.500	0.1108	-0.0011	-0.000	-	09/27/2024 14:28	JWN,NIC4
75	L2454206-03 WG1976267	2.500	2.500	2.500	0.0991	-0.0107	-0.004	-	09/27/2024 14:32	JWN,NIC4
76	L2454206-04 WG1976267	2.500	2.500	2.500	0.0783	-0.0279	-0.011	-	09/27/2024 14:35	JWN,NIC4
77	L2454206-06 WG1976267	2.500	2.500	2.500	0.0649	-0.0390	-0.016	-	09/27/2024 14:38	JWN,NIC4
78	L2454206-07 WG1976267	2.500	2.500	2.500	0.1089	-0.0026	-0.001	-	09/27/2024 14:42	JWN,NIC4
79	L2454206-08 WG1976267	2.500	2.500	2.500	0.0717	-0.0333	-0.013	-	09/27/2024 14:45	JWN,NIC4
80	L2454206-10 WG1976267	2.500	2.500	2.500	0.0936	-0.0153	-0.006	-	09/27/2024 14:48	JWN,NIC4
81	L2454206-11 WG1976267	2.500	2.500	2.500	0.2463	0.1108	0.044	-	09/27/2024 14:51	JWN,NIC4
82	L2454206-12 WG1976267	2.500	2.500	2.500	0.1064	-0.0047	-0.002	-	09/27/2024 14:55	JWN,NIC4
83	L2454333-01 WG1976267	2.500	2.500	2.500	0.0693	-0.0353	-0.014	-	09/27/2024 14:58	JWN,NIC4
84	Check STD(5ug/L)	2.500	2.500	2.500	14.977(	12.2684	4.907	98.1	09/27/2024 15:01	JWN,NIC4
85	Check Blank	2.500	2.500	2.500	0.0462	-0.0544	-0.022	-	09/27/2024 15:05	JWN,NIC4
86	WG1976267-2 WG1976267	2.500	2.500	2.500	2.7593	2.1848	0.874	-	09/27/2024 15:08	JWN,NIC4
87	L2454352-01 WG1976267	2.500	2.500	2.500	0.0555	-0.0467	-0.019	-	09/27/2024 15:12	JWN,NIC4
88	Check STD(5ug/L)	2.500	2.500	2.500	14.978(	12.2693	4.908	98.2	09/27/2024 15:16	JWN,NIC4
89	Check Blank	2.500	2.500	2.500	0.0454	-0.0550	-0.022	-	09/27/2024 15:20	JWN,NIC4

MERCURY TRUE VALUE CRITERIA

ICV	3 ug/l
LCSW	1 ug/l
MS	1 ug/l
CCV	5 ug/l

As of 6/1/13, Mercury True Value criteria is as follows:

ICV	3 ug/l
LCSW	1 ug/l
MS(aq)	5 ug/l
MS(soil)	1 ug/l
CCV	10 ug/l

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ERA
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Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

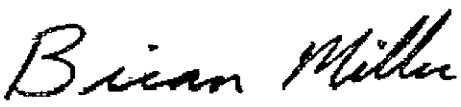
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of 7470A Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

Calculation of 7471B Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

The result in mg/kg is calculated on a dry weight basis using the sample weight digested(Wt), the final volume of the digestate(FV), and the percent total solids(%TS).

Result, mg/kg, wet = ((result, mg/L) x (FV)) /Wt

Result, mg/kg, dry wt = (Result, mg/kg wet)/(%TS)

No.	Sample No.	NAME	CURVE: WG1975877
1	1	STD	
2	2	STD	
3	3	STD	
4	4	STD	
5	5	STD	
6	6	STD	
1	7	XICV	
2	8	XICB	
3	7	ICV	
4	8	ICB	
5	9	0.2PPB	
6	10	WG1976277-1	WG1976277
7	11	WG1976277-2	WG1976277
8	12	L2454653-01	WG1976277
9	13	WG1976277-3	WG1976277
10	14	WG1976277-4	WG1976277
11	15	L2453692-10	WG1975263
12	16	L2453795-01	WG1975263
13	17	L2453915-02	WG1975263
14	19	Check STD(5ug/L)	
15	20	Check Blank	
16	21	WG1975760-1	WG1975760
17	22	WG1975760-2	WG1975760
18	23	L2454054-37	WG1975760
19	24	WG1975760-3	WG1975760
20	25	WG1975760-4	WG1975760
21	26	WG1976243-1	WG1976243
22	27	WG1976243-2	WG1976243
23	28	L2454087-01	WG1976243
24	29	WG1976243-3	WG1976243
25	30	WG1976243-4	WG1976243
26	31	Check STD(5ug/L)	
27	32	Check Blank	
28	33	L2454014-03	WG1976243
29	34	L2454278-01	WG1976243
30	35	L2454289-12	WG1976243
31	36	L2454406-01	WG1976243
32	37	WG1975633-1	WG1975633
33	38	WG1975633-2	WG1975633
34	39	L2453613-02	WG1975633
35	40	WG1975633-3	WG1975633
36	41	WG1975633-4	WG1975633
37	42	L2453613-01	WG1975633

38	43	Check STD(5ug/L)
39	44	Check Blank
40	45	L2453613-03 WG1975633
41	46	L2453613-04 WG1975633
42	47	L2453613-05 WG1975633
43	48	L2453613-06 WG1975633
44	49	L2453613-07 WG1975633
45	50	L2453613-08 WG1975633
46	51	L2453613-09 WG1975633
47	52	L2453613-10 WG1975633
48	53	L2453613-11 WG1975633
49	54	L2454050-01 WG1975633
50	55	Check STD(5ug/L)
51	56	Check Blank
52	57	L2454050-02 WG1975633
53	58	L2454050-03 WG1975633
54	59	L2454050-04 WG1975633
55	60	WG1976221-1 WG1976221
56	61	WG1976221-2 WG1976221
57	62	L2454059-02 WG1976221
58	63	WG1976221-3 WG1976221
59	64	WG1976221-4 WG1976221
60	65	L2454059-01 WG1976221
61	66	L2454352-01 WG1976221
62	67	Check STD(5ug/L)
63	68	Check Blank
64	69	WG1976164-1 WG1976164
65	70	WG1976164-2 WG1976164
66	71	L2454092-01 WG1976164
67	72	WG1976164-3 WG1976164
68	73	WG1976164-4 WG1976164
69	74	L2454092-02 WG1976164
70	75	L2454092-03 WG1976164
71	76	L2454092-05 WG1976164
72	77	WG1975973-1 WG1975973
73	78	WG1975973-2 WG1975973
74	79	Check STD(5ug/L)
75	80	Check Blank
76	1	l2453652-01 WG1975973
77	2	WG1975973-3 WG1975973
78	3	WG1975973-4 WG1975973
79	4	l2454059-01 WG1975973
80	5	l2454059-02 WG1975973
81	6	l2454081-01 WG1975973

82	7	l2454081-02 WG1975973
83	8	wg1976678-1 wg1976678
84	9	wg1976678-2 wg1976678
85	10	L2454653-03 wg1976678
86	11	Check STD(5ug/L)
87	12	Check Blank
88	13	wg1976678-3 wg1976678
89	14	wg1976678-4 wg1976678
90	15	wg1976695-1 wg1976695
91	16	wg1976695-2 wg1976695
92	17	L2454994-01 wg1976695
93	18	wg1976695-3 wg1976695
94	19	wg1976695-4 wg1976695
95	23	Check STD(5ug/L)
96	24	Check Blank
97	25	WG1976280-1 WG1976280
98	26	WG1976280-2 WG1976280
99	27	L2454653-02 WG1976280
100	28	WG1976280-3 WG1976280
101	29	WG1976280-4 WG1976280
102	30	xWG1976280-4 WG1976280
103	35	Check STD(5ug/L)
104	36	Check Blank

No.	Sample No.	NAME
1	1	STD
2	2	STD
3	3	STD
4	4	STD
5	5	STD
6	6	STD
1	7	ICV
2	8	ICB
3	9	0.2 PPB
4	10	WG1976565-1 WG1976565
5	11	WG1976565-2 WG1976565
6	12	L2454319-01 WG1976565
7	13	WG1976565-3 WG1976565
8	14	WG1976565-4 WG1976565
9	15	L2455026-01 WG1976565
10	16	L2455026-02 WG1976565
11	17	WG1976806-1 WG1976806
12	18	WG1976806-2 WG1976806
13	19	Check STD(5ug/L)
14	20	Check Blank
15	21	L2454544-01 WG1976806
16	22	WG1976806-3 WG1976806
17	23	WG1976806-4 WG1976806
18	24	L2454706-01 WG1976806
19	25	WG1976591-1 WG1976591
20	26	WG1976591-2 WG1976591
21	27	L2454227-06 WG1976591
22	28	WG1976591-3 WG1976591
23	29	WG1976591-4 WG1976591
24	30	L2454075-02 WG1976591
25	31	Check STD(5ug/L)
26	32	Check Blank
27	33	L2454402-01 WG1976591
28	34	L2454402-02 WG1976591
29	35	L2454402-03 WG1976591
30	36	L2454402-05 WG1976591
31	37	L2454431-01 WG1976591
32	38	L2454431-02 WG1976591
33	39	L2454431-03 WG1976591
34	40	L2455026-01 WG1976591
35	41	L2455026-02 WG1976591
36	43	Check STD(5ug/L)
37	44	Check Blank

38	45	WG1976706-1 WG1976706
39	46	WG1976706-2 WG1976706
40	47	L2454206-05 WG1976706
41	48	WG1976706-3 WG1976706
42	49	WG1976706-4 WG1976706
43	50	L2454206-09 WG1976706
44	51	WG1976706-5 WG1976706
45	52	WG1976706-6 WG1976706
46	53	L2454206-01 WG1976706
47	54	L2454206-02 WG1976706
48	55	Check STD(5ug/L)
49	56	Check Blank
50	57	L2454206-03 WG1976706
51	58	L2454206-04 WG1976706
52	59	L2454206-06 WG1976706
53	60	L2454206-07 WG1976706
54	61	L2454206-08 WG1976706
55	62	L2454206-10 WG1976706
56	63	L2454206-11 WG1976706
57	64	L2454206-12 WG1976706
58	65	WG1976267-1 WG1976267
59	66	xWG1976267-2 WG1976267
60	67	Check STD(5ug/L)
61	68	Check Blank
62	69	L2454206-05 WG1976267
63	70	WG1976267-3 WG1976267
64	71	WG1976267-4 WG1976267
65	72	L2454206-09 WG1976267
66	73	WG1976267-5 WG1976267
67	74	WG1976267-6 WG1976267
68	75	L2453906-01 WG1976267
69	76	L2454045-01 WG1976267
70	77	L2454045-02 WG1976267
71	78	L2454206-01 WG1976267
72	79	Check STD(5ug/L)
73	80	Check Blank
74	1	L2454206-02 WG1976267
75	2	L2454206-03 WG1976267
76	3	L2454206-04 WG1976267
77	4	L2454206-06 WG1976267
78	5	L2454206-07 WG1976267
79	6	L2454206-08 WG1976267
80	7	L2454206-10 WG1976267
81	8	L2454206-11 WG1976267

82	9	L2454206-12 WG1976267
83	10	L2454333-01 WG1976267
84	11	Check STD(5ug/L)
85	12	Check Blank
86	13	WG1976267-2 WG1976267
87	14	L2454352-01 WG1976267
88	15	Check STD(5ug/L)
89	16	Check Blank

METALS ELN REPORT

Workgroup: WG1976221

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	24011095	H2SO4	24001335	METALS	METSPIKE	HG24381708 07AJTV1	METSPIKE	HG24381708 07AJTV1	320, 348

Additional Reagent/Std	K2O8S2	PS2438191125AJT
	KMnO4	PP2439240820AJT
	NaCl-NH2OH.HCl	HH2439240955JWN
		ICV2436051025CME

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol ml	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2454059-01 SAMP	09/25/24 20:15	Maisie Mcqueen	NA	25		09/25/24 20:15	5	94.7	09/25/24 22:15	25	
L2454059-02 SAMP	09/25/24 20:15	Maisie Mcqueen	NA	25		09/25/24 20:15	5	94.7	09/25/24 22:15	25	
L2454352-01 SAMP	09/25/24 20:15	Maisie Mcqueen	NA	25		09/25/24 20:15	5	94.7	09/25/24 22:15	25	
WG1976221-1 BLANK	09/25/24 20:15	Maisie Mcqueen	NA	25		09/25/24 20:15	5	94.7	09/25/24 22:15	25	ELN:CME
WG1976221-2 LCS	09/25/24 20:15	Maisie Mcqueen	NA	25	0.25	09/25/24 20:15	5	94.7	09/25/24 22:15	25	
WG1976221-3 MS	09/25/24 20:15	Maisie Mcqueen	NA	25	1.25	09/25/24 20:15	5	94.7	09/25/24 22:15	25	
WG1976221-4 DUP	09/25/24 20:15	Maisie Mcqueen	NA	25		09/25/24 20:15	5	94.7	09/25/24 22:15	25	

METALS ELN REPORT

Workgroup: WG1976221

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 27-SEP-24 03:54 PM

METALS ELN REPORT

Workgroup: WG1976267

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	24011095	H2SO4	24001335	METALS	METSPIKE	HG24381708 07AJTV1	METSPIKE	HG24381708 07AJTV1	320, 348

Additional Reagent/Std	K2O8S2	PS2438191125AJT
	KMnO4	PP2439240820AJT
	NaCl-NH2OH.HCl	HH2439251234JWN
		ICV2436051025CME

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2453906-01 SAMP	09/26/24 09:11	Joshua Holmes	25		09/26/24 09:11	8	95.2	09/26/24 11:11	25	
L2454045-01 SAMP	09/26/24 09:11	Joshua Holmes	25		09/26/24 09:11	8	95.2	09/26/24 11:11	25	
L2454045-02 SAMP	09/26/24 09:11	Joshua Holmes	25		09/26/24 09:11	8	95.2	09/26/24 11:11	25	
L2454206-01 SAMP	09/26/24 09:11	Joshua Holmes	25		09/26/24 09:11	8	95.2	09/26/24 11:11	25	
L2454206-02 SAMP	09/26/24 09:11	Joshua Holmes	25		09/26/24 09:11	8	95.2	09/26/24 11:11	25	
L2454206-03 SAMP	09/26/24 09:11	Joshua Holmes	25		09/26/24 09:11	8	95.2	09/26/24 11:11	25	
L2454206-04 SAMP	09/26/24 09:11	Joshua Holmes	25		09/26/24 09:11	8	95.2	09/26/24 11:11	25	
L2454206-05 SAMP	09/26/24 09:11	Joshua Holmes	25		09/26/24 09:11	8	95.2	09/26/24 11:11	25	
L2454206-06 SAMP	09/26/24 09:11	Joshua Holmes	25		09/26/24 09:11	8	95.2	09/26/24 11:11	25	
L2454206-07 SAMP	09/26/24 09:11	Joshua Holmes	25		09/26/24 09:11	8	95.2	09/26/24 11:11	25	
L2454206-08 SAMP	09/26/24 09:11	Joshua Holmes	25		09/26/24 09:11	8	95.2	09/26/24 11:11	25	
L2454206-09 SAMP	09/26/24 09:11	Joshua Holmes	25		09/26/24 09:11	8	95.2	09/26/24 11:11	25	

Reported: 27-SEP-24 03:54 PM

METALS ELN REPORT

Workgroup: WG1976267

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2454206-10 SAMP	09/26/24 09:11	Joshua Holmes	25		09/26/24 09:11	8	95.2	09/26/24 11:11	25	
L2454206-11 SAMP	09/26/24 09:11	Joshua Holmes	25		09/26/24 09:11	8	95.2	09/26/24 11:11	25	
L2454206-12 SAMP	09/26/24 09:11	Joshua Holmes	25		09/26/24 09:11	8	95.2	09/26/24 11:11	25	
L2454333-01 SAMP	09/26/24 09:11	Joshua Holmes	25		09/26/24 09:11	8	95.2	09/26/24 11:11	25	
L2454352-01 SAMP	09/26/24 09:11	Joshua Holmes	25		09/26/24 09:11	8	95.2	09/26/24 11:11	25	
WG1976267-1 BLANK	09/26/24 09:11	Joshua Holmes	25		09/26/24 09:11	8	95.2	09/26/24 11:11	25	
WG1976267-2 LCS	09/26/24 09:11	Joshua Holmes	25	0.25	09/26/24 09:11	8	95.2	09/26/24 11:11	25	ELN: ADG
WG1976267-3 MS	09/26/24 09:11	Joshua Holmes	25	1.25	09/26/24 09:11	8	95.2	09/26/24 11:11	25	
WG1976267-4 MSD	09/26/24 09:11	Joshua Holmes	25	1.25	09/26/24 09:11	8	95.2	09/26/24 11:11	25	
WG1976267-5 MS	09/26/24 09:11	Joshua Holmes	25	1.25	09/26/24 09:11	8	95.2	09/26/24 11:11	25	
WG1976267-6 MSD	09/26/24 09:11	Joshua Holmes	25	1.25	09/26/24 09:11	8	95.2	09/26/24 11:11	25	

Reported: 27-SEP-24 03:54 PM

METALS ELN REPORT

Workgroup: WG1976267

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 27-SEP-24 03:54 PM

Wet Chemistry

Total Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/30/24 16:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1978243.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	3.4	0.30	0.30	

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

TOTAL NITROGEN

Last Change 3/5/13 GFF
File tnitrogen.xlt

Sample #: _____

Client: _____

Analysis: **Total Nitrogen**

Method: ***Calculation from TKN & NO3/NO2***

Product: **TNITROGEN**
Analyte: **Total Nitrogen,**
Analysis Date: 9/30/2024 16:05
Technician: MRM
Work group: WG1978243
RL: **0.3 mg/L**

	Sample Number	TKN (mg/L)	NO3/NO2 (mg/L)	RL Multiplier	Result (mg/L)
SAMP	L2454142-01	38.5	0	10.0	38.5
SAMP	L2454142-02	2.91	4.6	1.0	7.51
SAMP	L2454143-01	39.3	0	10.0	39.3
SAMP	L2454143-02	2.28	5	1.0	7.28
SAMP	L2454352-01	0.263	3.4	1.0	3.4
SAMP	L2454654-02	0.914	0.89	1.0	1.804

Calculations of Total Nitrogen

Calculate the concentration value based on results for TKN-N and N03/NO2-N.

Aqueous samples:

mgTN-N/L = TKN-N(mg/l) + NO3/NO2-N (mg/l)

Soil samples:

mgTN-N/Kg = TKN-N(mg/Kg) + NO3/NO2-N(mg/Kg)

Total Kjeldahl Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 18:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320240927-H	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/27/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.263	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1977009-1	**Date Collected**	: NA
Client ID	: WG1977009-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/27/24 18:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320240927-H	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/27/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.072	0.300	0.022	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1977009-3	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DRDUP	**Date Received**	: 09/20/24
Sample Location	:	**Date Analyzed**	: 09/27/24 18:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320240927-H	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/27/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.320	0.300	0.066	

Sample Raw Data

Author: A1WETCHEMINSTRUMENT

Date : 9/27/2024

Original Run Filename: OM_9-27-2024_11-09-24AM.OMN Created: 9/27/2024 11:09:24 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-27-2024_11-09-24AM.OMN Last Modified: 9/27/2024 11:39:35 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY A

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
	STD 1	1	S1	10.00000				
	STD 2	1	S2	8.00000				
	STD 3	1	S3	4.00000				
	STD 4	1	S4	2.00000				
	STD 5	1	S5	1.00000				
	STD 6	1	S6	0.40000				
	STD 7	1	S7	0.20000				
	STD 8	1	S8	0.10000				
	STD 9	1	S9	0.05000				
	STD 10	1	S10	0.00000				
	CCV 0.4000	1	S6	0.38015				95%
		Known Conc:		100.00000				
		Calibration:		Table/Fig. : 1				
	CCV 4.0000	1	S3	3.92184				98%
		Known Conc:		100.00000				
	CCB	1	S10	0.01749				
		Known Conc:		100.00000				
	HI ICV 8.0	1	1	7.98773				100%
	LO ICV 1.0	1	2	1.01709				102%
	ICB	1	3	0.00716				
	WG1976789-1	1	4	0.00598		1.50		
	WG1976789-2	1	5	18.81564		7.50		94%
	LCS LO	1	6	1.90108		1.50		95%
	L2453511-01	1	7	32.38314		7.50		
	L2453511-02	1	8	1.27518		1.50		
	L2453512-01	1	9	8.22165		7.50		
	L2453512-02	1	10	7.29169		1.50		
X	CCV 0.4000	1	S6	0.53393				133% RERUN OK
		Known Conc:		100.00000				

Author: A1WETCHEMINSTRUMENT

Date : 9/27/2024

Channel 2 (Ammonia High) - Current View

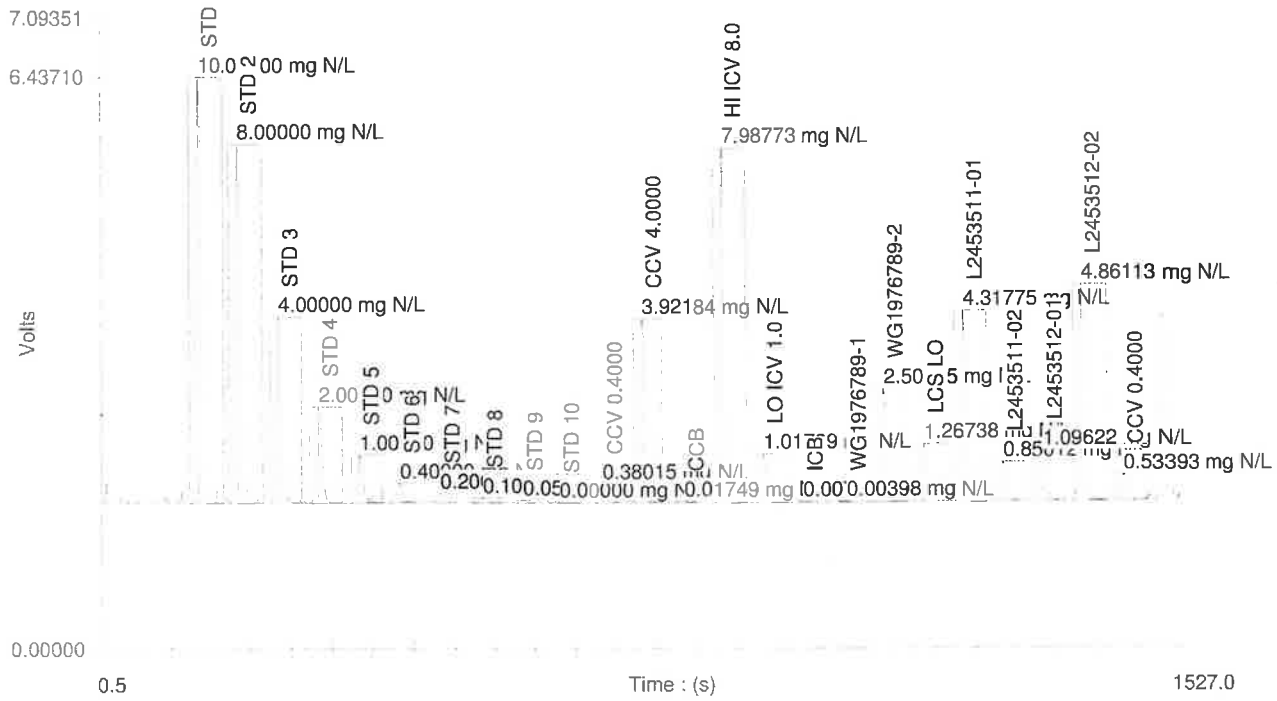
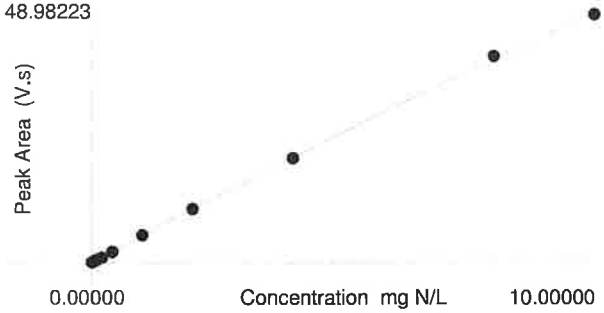


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	48.98223	4.78051	0.0	0.8	9.90167	9/27/2024	11:15:44 AM
2	8.00000	1	40.73000	4.02987	0.0	-1.4	8.12572	9/27/2024	11:16:41 AM
3	4.00000	1	20.59537	2.09172	0.0	0.7	3.97377	9/27/2024	11:17:38 AM
4	2.00000	1	10.57463	1.07909	0.0	-0.2	2.00319	9/27/2024	11:18:35 AM
5	1.00000	1	5.39067	0.53748	0.0	-1.0	1.00875	9/27/2024	11:19:32 AM
6	0.40000	1	2.14965	0.21669	0.0	0.9	0.39567	9/27/2024	11:20:30 AM
7	0.20000	1	1.01567	0.09995	0.0	8.2	0.18274	9/27/2024	11:21:28 AM
8	0.10000	1	0.57991	0.05550	0.0	-1.1	0.10114	9/27/2024	11:22:26 AM
9	0.05000	1	0.31960	0.02905	0.0	-4.1	0.05244	9/27/2024	11:23:24 AM
10	0.00000	1	0.04626	0.00324			0.00136	9/27/2024	11:24:20 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 9/27/2024

Original Run Filename: OM_9-27-2024_11-44-07AM.OMN Created: 9/27/2024 11:44:07 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-27-2024_11-44-07AM.OMN Last Modified: 9/27/2024 12:15:21 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY A

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
CCV 0.4000	1	S6	0.39382				98%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.01959				100%
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S10	0.02106				
	Known Conc:		100.00000				
L2453626-01	1	11	3.44399		1.50		
WG1976789-4	1	12	8.16427		1.50		118%
WG1976789-3	1	13	3.76656		1.50		RPD=5%
L2453626-02	1	14	2.15666		15.00		
L2453626-03	1	15	0.49964		1.50		
L2453626-04	1	16	0.27106		1.50		
L2453626-05	1	17	1.85970		1.50		
L2453626-06	1	18	0.09286		1.50		
L2453626-07	1	19	0.04889		1.50		
L2453626-08	1	20	0.01060		1.50		
CCV 0.4000	1	S6	0.39532				99%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.99178				100%
	Known Conc:		100.00000				
CCB	1	S10	0.01788				
	Known Conc:		100.00000				
L2453711-01	1	21	0.02757		1.50		
L2453711-02	1	22	0.02939		1.50		
L2453711-03	1	23	0.53315		1.50		
L2453711-04	1	24	0.97342		1.50		
L2453711-05	1	25	0.03610		1.50		
L2453711-06	1	26	0.00627		1.50		
L2453711-07	1	27	0.01490		1.50		
L2453711-08	1	28	0.00535		1.50		
WG1976789-6	1	29	4.36935		1.50		109%
WG1976789-5	1	30	0.13956		1.50		RPD=NC
CCV 0.4000	1	S6	0.39893				100%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.00259				100%
	Known Conc:		100.00000				
CCB	1	S10	0.02175				
	Known Conc:		100.00000				

Author: A1WETCHEMINSTRUMENT

Date : 9/27/2024

Channel 2 (Ammonia High) - Current View

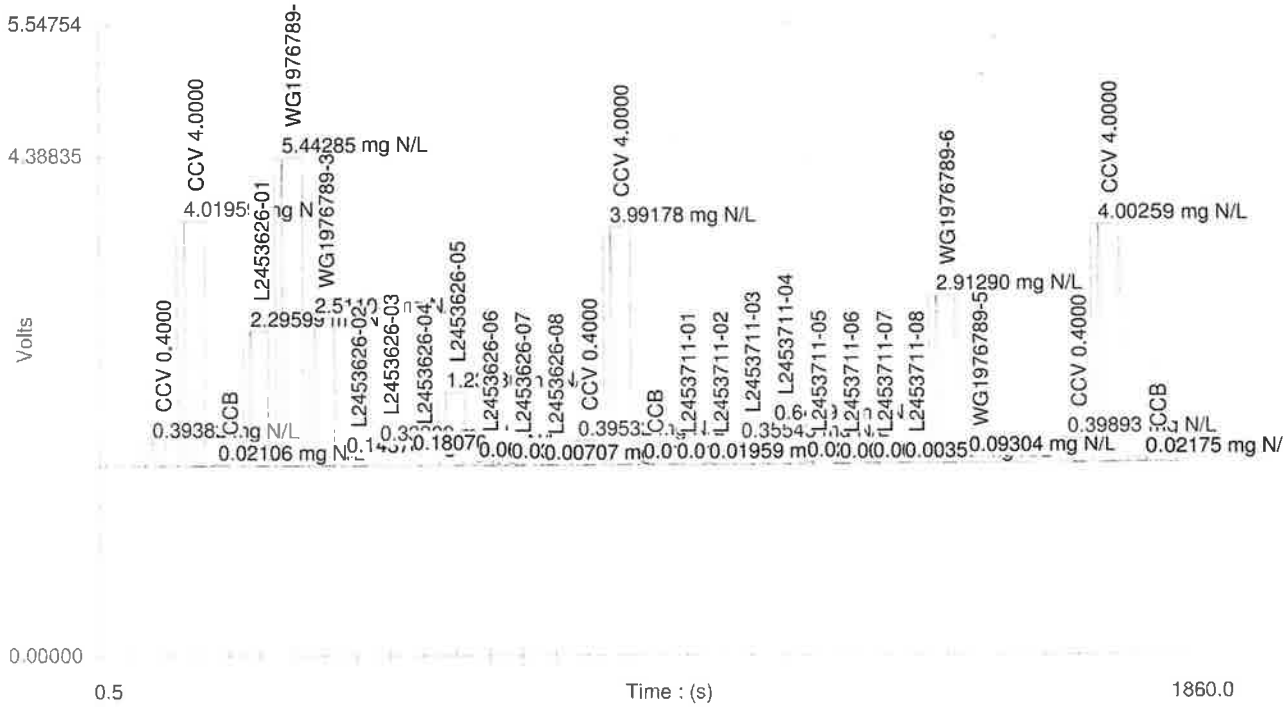
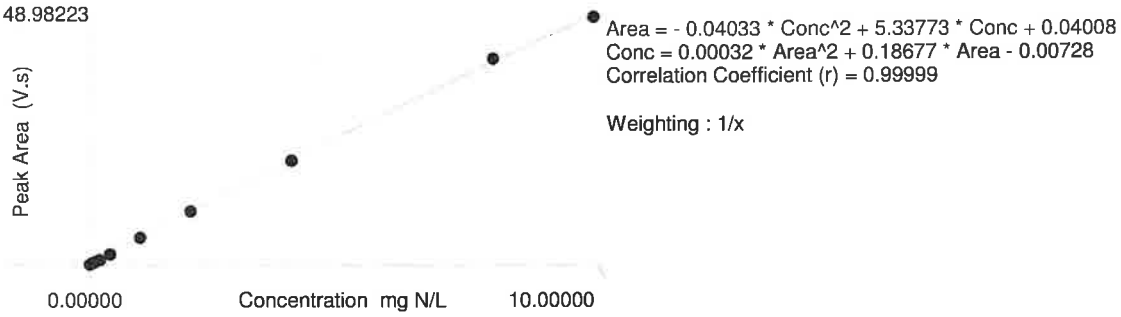


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	48.98223	4.78051	0.0	0.8	9.90167	9/27/2024	11:15:44 AM
2	8.00000	1	40.73000	4.02987	0.0	-1.4	8.12572	9/27/2024	11:16:41 AM
3	4.00000	1	20.59537	2.09172	0.0	0.7	3.97377	9/27/2024	11:17:38 AM
4	2.00000	1	10.57463	1.07909	0.0	-0.2	2.00319	9/27/2024	11:18:35 AM
5	1.00000	1	5.39067	0.53748	0.0	-1.0	1.00875	9/27/2024	11:19:32 AM
6	0.40000	1	2.14965	0.21669	0.0	0.9	0.39567	9/27/2024	11:20:30 AM
7	0.20000	1	1.01567	0.09995	0.0	8.2	0.18274	9/27/2024	11:21:28 AM
8	0.10000	1	0.57991	0.05550	0.0	-1.1	0.10114	9/27/2024	11:22:26 AM
9	0.05000	1	0.31960	0.02905	0.0	-4.1	0.05244	9/27/2024	11:23:24 AM
10	0.00000	1	0.04626	0.00324			0.00136	9/27/2024	11:24:20 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 9/27/2024

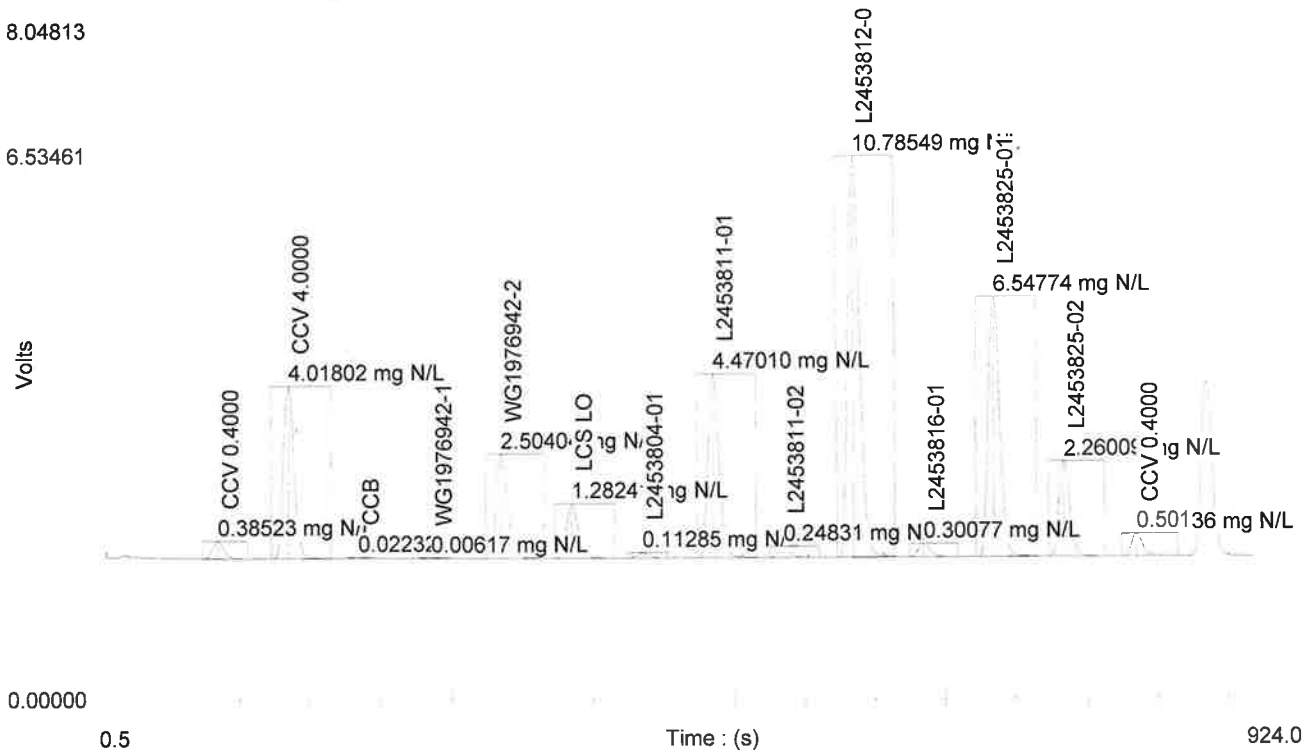
Original Run Filename: OM_9-27-2024_03-07-35PM.OMN Created: 9/27/2024 3:07:35 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-27-2024_03-07-35PM.OMN Last Modified: 9/27/2024 3:23:21 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

C

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38523	96%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.01802	101%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02232			
	Known Conc:		100.00000			
WG1976942-1	1	1	0.00926		1.50	
WG1976942-2	1	2	18.78031		7.50	94%
LCS LO	1	3	1.92362		1.50	96%
L2453804-01	1	4	0.16928		1.50	
L2453811-01	1	5	13.41029		3.00	
L2453811-02	1	6	0.37246		1.50	
X L2453812-01	1	~~7~~	~~16.17824~~		1.50	w/dilution.
X L2453816-01	1	~~8~~	~~0.45115~~		1.50	
L2453825-01	1	9	49.10806		7.50	
L2453825-02	1	10	3.39013		1.50	
CCV 0.4000	1	S6	0.50136			
	Known Conc:		100.00000			

reject - OK

Channel 2 (Ammonia High) - Current View



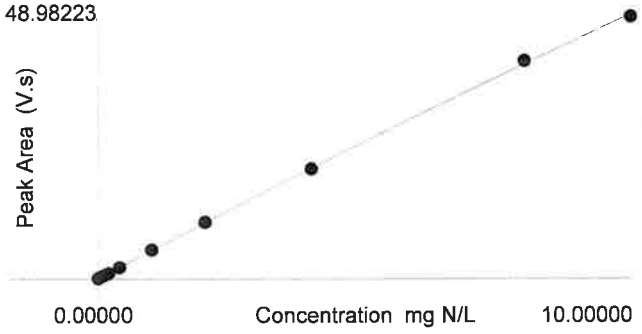
Author: A1WETCHEMINSTRUMENT

Date : 9/27/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	48.98223	4.78051	0.0	0.8	9.90167	9/27/2024	11:15:44 AM
2	8.00000	1	40.73000	4.02987	0.0	-1.4	8.12572	9/27/2024	11:16:41 AM
3	4.00000	1	20.59537	2.09172	0.0	0.7	3.97377	9/27/2024	11:17:38 AM
4	2.00000	1	10.57463	1.07909	0.0	-0.2	2.00319	9/27/2024	11:18:35 AM
5	1.00000	1	5.39067	0.53748	0.0	-1.0	1.00875	9/27/2024	11:19:32 AM
6	0.40000	1	2.14965	0.21669	0.0	0.9	0.39567	9/27/2024	11:20:30 AM
7	0.20000	1	1.01567	0.09995	0.0	8.2	0.18274	9/27/2024	11:21:28 AM
8	0.10000	1	0.57991	0.05550	0.0	-1.1	0.10114	9/27/2024	11:22:26 AM
9	0.05000	1	0.31960	0.02905	0.0	-4.1	0.05244	9/27/2024	11:23:24 AM
10	0.00000	1	0.04626	0.00324			0.00136	9/27/2024	11:24:20 AM

Figure : 1 (Ammonia)



Area = - 0.04033 * Conc^2 + 5.33773 * Conc + 0.04008
Conc = 0.00032 * Area^2 + 0.18677 * Area - 0.00728
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 9/27/2024

Original Run Filename: OM_9-27-2024_03-24-02PM.OMN Created: 9/27/2024 3:24:02 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-27-2024_03-24-02PM.OMN Last Modified: 9/27/2024 3:55:14 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

C2

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
CCV 0.4000	1	S6	0.40099	100%			
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.02838	101%			
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S10	0.02580				
	Known Conc:		100.00000				
L2453826-01	1	11	0.15435		1.50		
L2453844-01	1	~~12~~	~~20.85116~~		1.50	w/ dilution.	
L2453844-02	1	~~13~~	~~0.59754~~		~~1.50~~		
L2453890-01	1	14	0.85813		1.50		
L2453891-02	1	15	0.18183		1.50		
L2453893-01	1	16	0.09844		1.50		
L2453894-01	1	17	0.03198		1.50		
L2453894-02	1	18	0.07895		3.00		
L2453894-03	1	19	0.04020		1.50		
L2453894-04	1	20	0.03006		1.50		
CCV 0.4000	1	S6	0.39939	100%			
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.03995	101%			
	Known Conc:		100.00000				
CCB	1	S10	0.02478				
	Known Conc:		100.00000				
L2454654-02	1	21	0.02019		1.50	106%	
WG1976942-4	1	22	4.23855		1.50		
WG1976942-3	1	23	0.14392		1.50	NC (<RL)	
L2455272-01	1	24	25.58917		3.00		
L2455272-02	1	25	12.11112		1.50		
L2453812-01; 10x	1	26	19.44828		15.00		
L2453816-01	1	27	0.17307		1.50		
L2453844-01; 10x	1	28	20.91323		15.00		
L2453844-02	1	29	0.21681		1.50		
CCV 0.4000	1	S6	0.39734	99%			
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.01749	101%			
	Known Conc:		100.00000				
CCB	1	S10	0.02831				
	Known Conc:		100.00000				

Author: A1WETCHEMINSTRUMENT

Date : 9/27/2024

Channel 2 (Ammonia High) - Current View

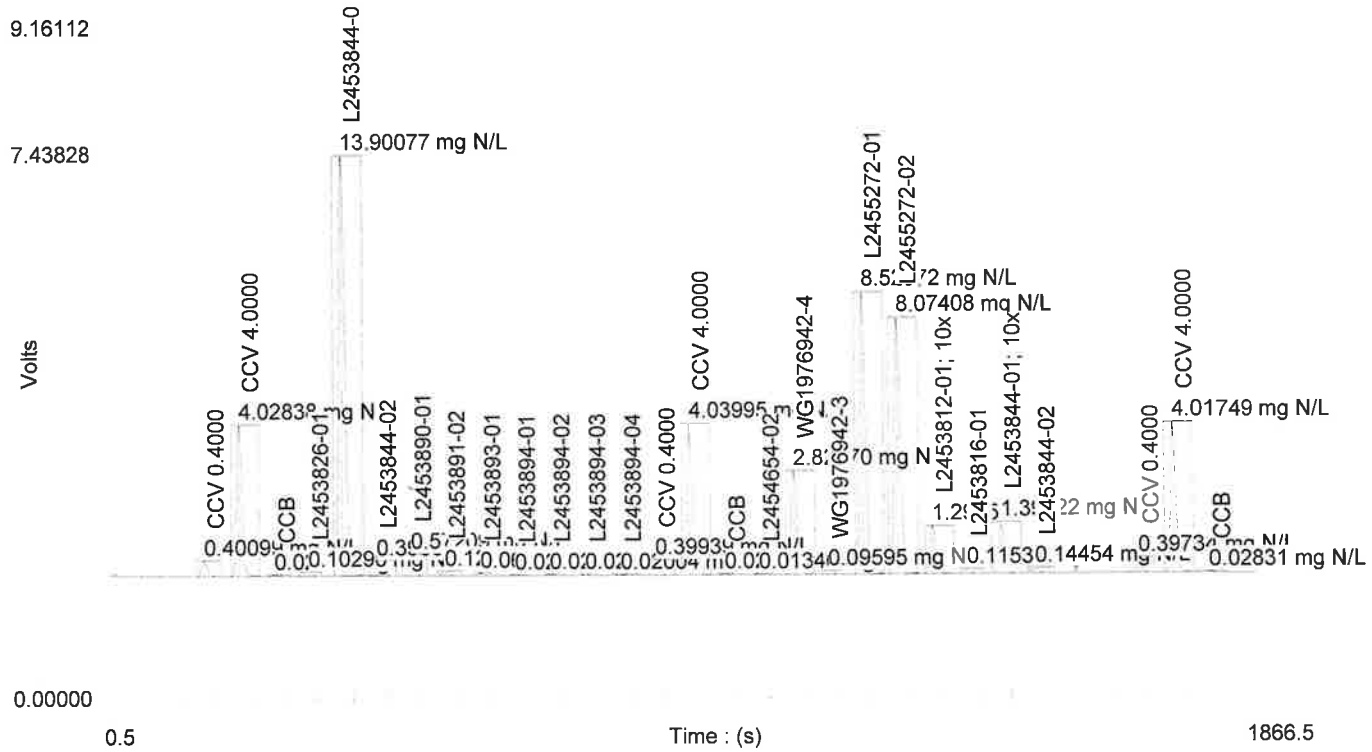
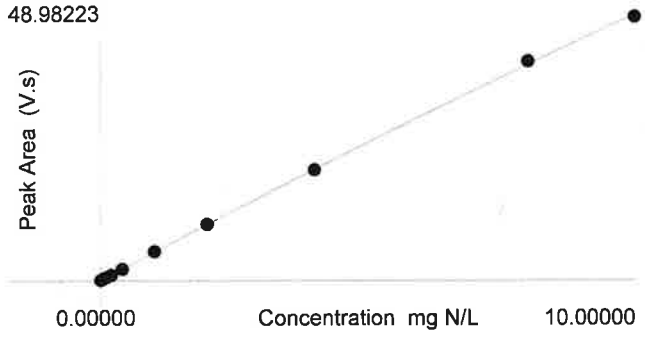


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	48.98223	4.78051	0.0	0.8	9.90167	9/27/2024	11:15:44 AM
2	8.00000	1	40.73000	4.02987	0.0	-1.4	8.12572	9/27/2024	11:16:41 AM
3	4.00000	1	20.59537	2.09172	0.0	0.7	3.97377	9/27/2024	11:17:38 AM
4	2.00000	1	10.57463	1.07909	0.0	-0.2	2.00319	9/27/2024	11:18:35 AM
5	1.00000	1	5.39067	0.53748	0.0	-1.0	1.00875	9/27/2024	11:19:32 AM
6	0.40000	1	2.14965	0.21669	0.0	0.9	0.39567	9/27/2024	11:20:30 AM
7	0.20000	1	1.01567	0.09995	0.0	8.2	0.18274	9/27/2024	11:21:28 AM
8	0.10000	1	0.57991	0.05550	0.0	-1.1	0.10114	9/27/2024	11:22:26 AM
9	0.05000	1	0.31960	0.02905	0.0	-4.1	0.05244	9/27/2024	11:23:24 AM
10	0.00000	1	0.04626	0.00324			0.00136	9/27/2024	11:24:20 AM

Figure : 1 (Ammonia)



Area = - 0.04033 * Conc^2 + 5.33773 * Conc + 0.04008
Conc = 0.00032 * Area^2 + 0.18677 * Area - 0.00728
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 9/27/2024

Original Run Filename: OM_9-27-2024_04-21-58PM.OMN Created: 9/27/2024 4:21:58 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-27-2024_04-21-58PM.OMN Last Modified: 9/27/2024 4:45:44 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38716	97%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.07364	102%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02874			
	Known Conc:		100.00000			
WG1976790-1; BLK 9/26	1	1	0.01677		1.50	
WG1976790-2; HI LCS; 5X	1	2	20.05635		7.50	100%
LO LCS	1	3	1.93859		1.50	97%
L2453539-01	1	4	0.20128		3.00	
WG1976791-4; 53539.1 MS	1	5	8.77537		3.00	107% (<rtol)
WG1976791-3; 53539.1 DUP	1	6	0.34809		3.00	53% (<rtol)
L2453539-02	1	7	0.02471		1.50	
L2453711-09	1	8	0.02732		1.50	100%
WG1976790-4; 53711.9 MS	1	9	3.98405		1.50	
WG1976790-3; 53711.9 DUP	1	10	0.16431		1.50	N/C (<rtol)
CCV 0.4000	1	S6	0.41146	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.02684	101%		
	Known Conc:		100.00000			
CCB	1	S10	0.03481			
	Known Conc:		100.00000			
L2453711-10	1	11	0.02241		1.50	
L2453711-11	1	12	0.03132		1.50	
CCV 0.4000	1	S6	0.39702	99%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.04459	101%		
	Known Conc:		100.00000			
CCB	1	S10	0.03272			
	Known Conc:		100.00000			

D

MS-fail

Author: A1WETCHEMINSTRUMENT

Date : 9/27/2024

Channel 2 (Ammonia High) - Current View

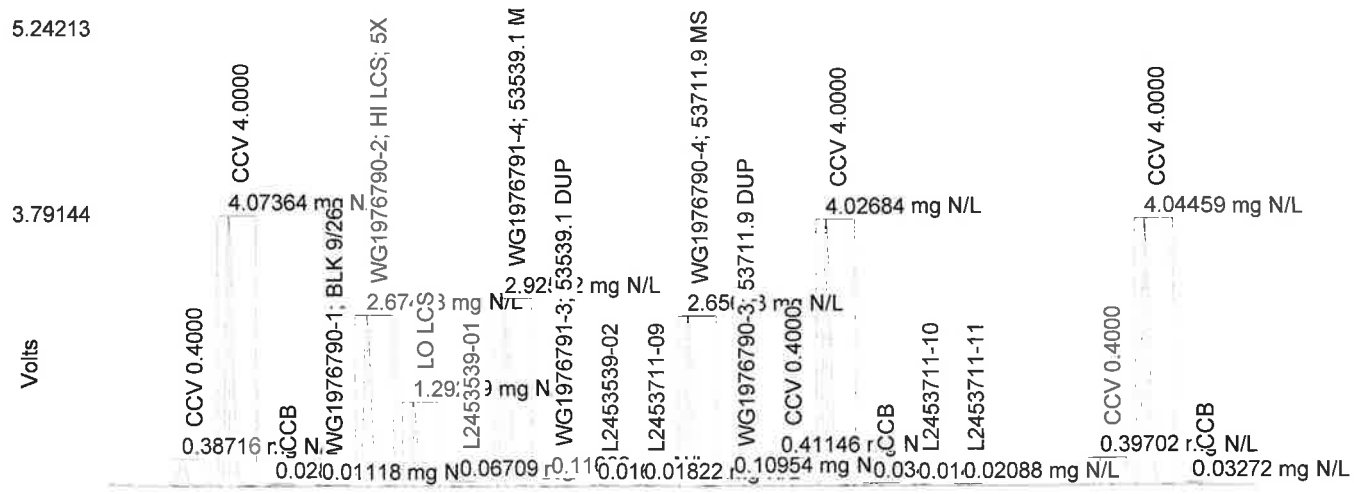
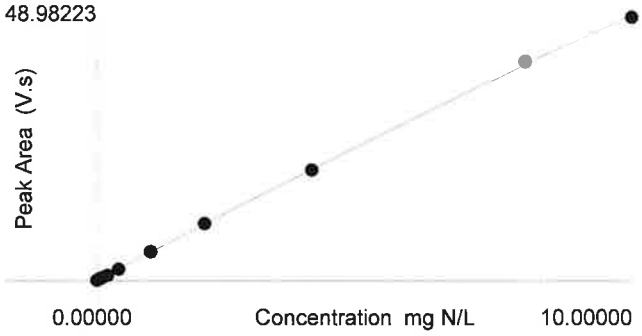


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	48.98223	4.78051	0.0	0.8	9.90167	9/27/2024	11:15:44 AM
2	8.00000	1	40.73000	4.02987	0.0	-1.4	8.12572	9/27/2024	11:16:41 AM
3	4.00000	1	20.59537	2.09172	0.0	0.7	3.97377	9/27/2024	11:17:38 AM
4	2.00000	1	10.57463	1.07909	0.0	-0.2	2.00319	9/27/2024	11:18:35 AM
5	1.00000	1	5.39067	0.53748	0.0	-1.0	1.00875	9/27/2024	11:19:32 AM
6	0.40000	1	2.14965	0.21669	0.0	0.9	0.39567	9/27/2024	11:20:30 AM
7	0.20000	1	1.01567	0.09995	0.0	8.2	0.18274	9/27/2024	11:21:28 AM
8	0.10000	1	0.57991	0.05550	0.0	-1.1	0.10114	9/27/2024	11:22:26 AM
9	0.05000	1	0.31960	0.02905	0.0	-4.1	0.05244	9/27/2024	11:23:24 AM
10	0.00000	1	0.04626	0.00324			0.00136	9/27/2024	11:24:20 AM

Figure : 1 (Ammonia)



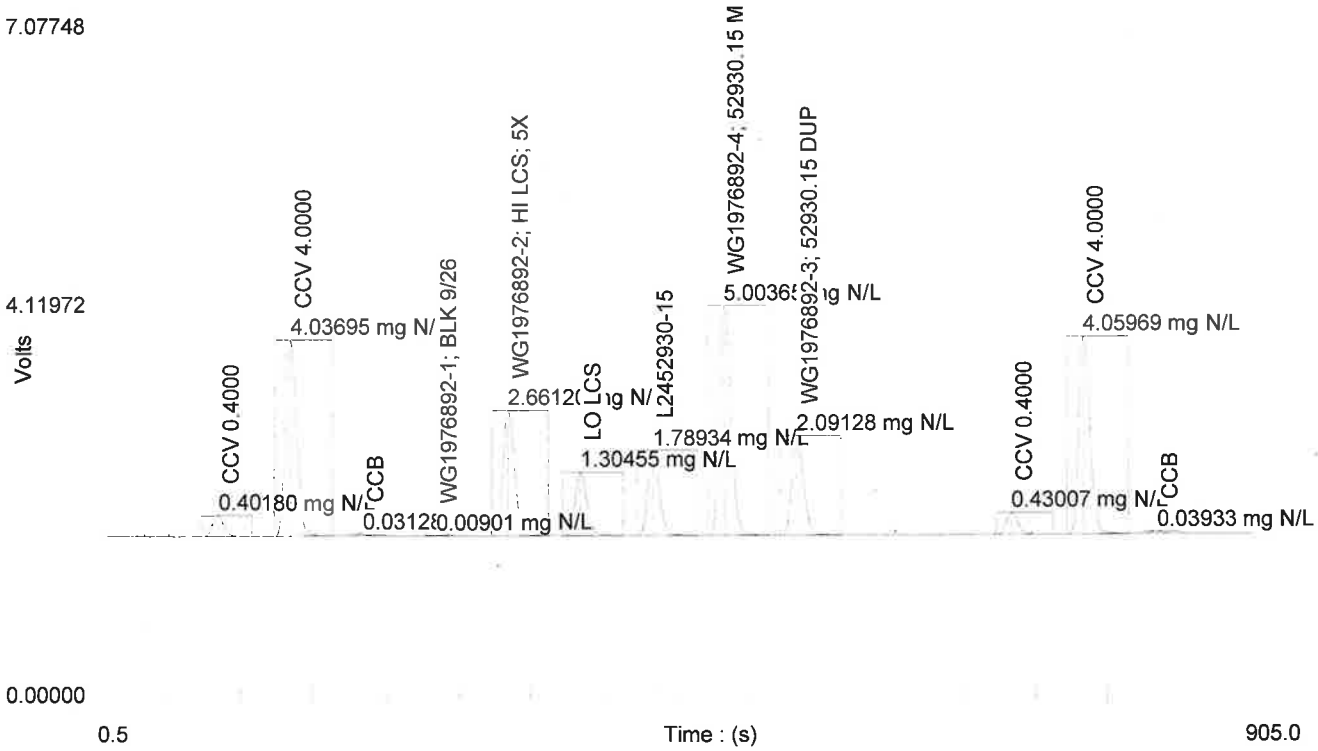
Author: A1WETCHEMINSTRUMENT

Date : 9/27/2024

Original Run Filename: OM_9-27-2024_04-47-11PM.OMN Created: 9/27/2024 4:47:11 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-27-2024_04-47-11PM.OMN Last Modified: 9/27/2024 5:02:28 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40180	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.03695	101%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.03128	✓		
	Known Conc:		100.00000			
WG1976892-1; BLK 9/26	1	1	0.01352		1.50	
WG1976892-2; HI LCS; 5X	1	2	19.95902		7.50	100%
LO LCS	1	3	1.95682		1.50	98%
L2452930-15	1	4	2.68401	✓	1.50	
WG1976892-4; 52930.15 MS	1	5	7.50548		1.50	121%
WG1976892-3; 52930.15 DUP	1	6	3.13692	✓	1.50	16%
CCV 0.4000	1	S6	0.43007	108%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.05969	102%		
	Known Conc:		100.00000			
CCB	1	S10	0.03933	✓		
	Known Conc:		100.00000			

Channel 2 (Ammonia High) - Current View



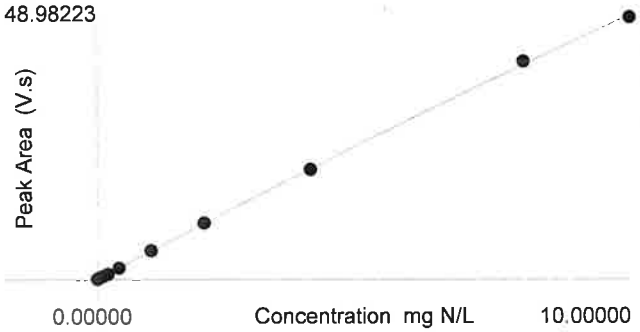
Author: A1WETCHEMINSTRUMENT

Date : 9/27/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	48.98223	4.78051	0.0	0.8	9.90167	9/27/2024	11:15:44 AM
2	8.00000	1	40.73000	4.02987	0.0	-1.4	8.12572	9/27/2024	11:16:41 AM
3	4.00000	1	20.59537	2.09172	0.0	0.7	3.97377	9/27/2024	11:17:38 AM
4	2.00000	1	10.57463	1.07909	0.0	-0.2	2.00319	9/27/2024	11:18:35 AM
5	1.00000	1	5.39067	0.53748	0.0	-1.0	1.00875	9/27/2024	11:19:32 AM
6	0.40000	1	2.14965	0.21669	0.0	0.9	0.39567	9/27/2024	11:20:30 AM
7	0.20000	1	1.01567	0.09995	0.0	8.2	0.18274	9/27/2024	11:21:28 AM
8	0.10000	1	0.57991	0.05550	0.0	-1.1	0.10114	9/27/2024	11:22:26 AM
9	0.05000	1	0.31960	0.02905	0.0	-4.1	0.05244	9/27/2024	11:23:24 AM
10	0.00000	1	0.04626	0.00324			0.00136	9/27/2024	11:24:20 AM

Figure : 1 (Ammonia)



Area = - 0.04033 * Conc^2 + 5.33773 * Conc + 0.04008
Conc = 0.00032 * Area^2 + 0.18677 * Area - 0.00728
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

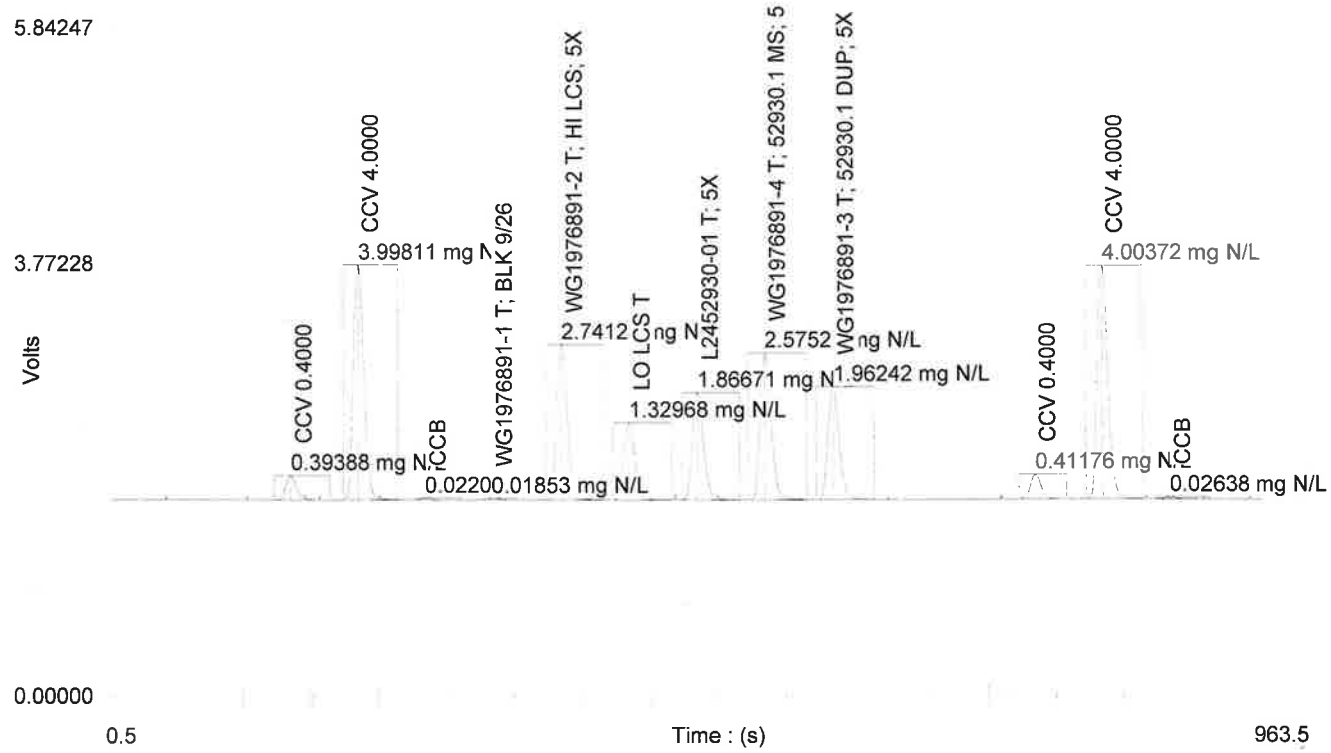
Date : 9/27/2024

Original Run Filename: OM_9-27-2024_05-24-04PM.OMN Created: 9/27/2024 5:24:04 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-27-2024_05-24-04PM.OMN Last Modified: 9/27/2024 5:40:19 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39388	99%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.99811	100%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02208			
	Known Conc:		100.00000			
WG1976891-1 T; BLK 9/26	1	1	0.01853			
WG1976891-2 T; HI LCS; 5X	1	2	41.11861		15.00	103%
LO LCS T	1	3	3.98904		3.00	100%
L2452930-01 T; 5X	1	4	28.00069		15.00	
WG1976891-4 T; 52930.1 MS; 5X	1	5	38.62878		15.00	133%
WG1976891-3 T; 52930.1 DUP; 5X	1	6	29.43637		15.00	5%
CCV 0.4000	1	S6	0.41176	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.00372	100%		
	Known Conc:		100.00000			
CCB	1	S10	0.02638			
	Known Conc:		100.00000			

F

Channel 2 (Ammonia High) - Current View



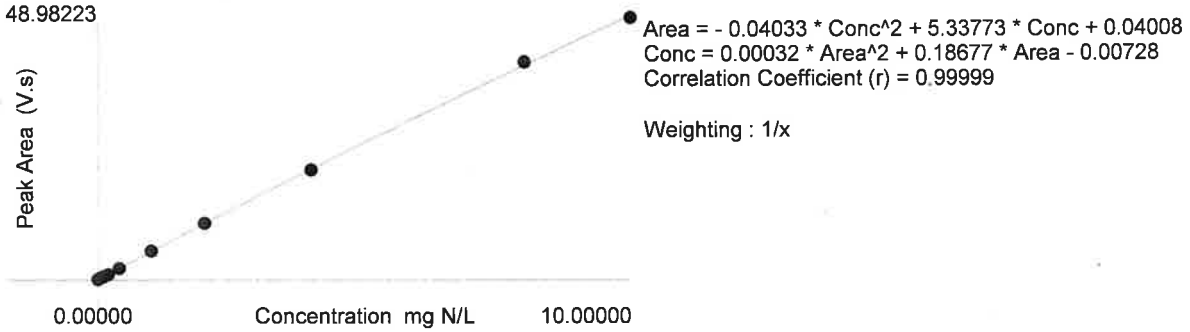
Author: A1WETCHEMINSTRUMENT

Date : 9/27/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	48.98223	4.78051	0.0	0.8	9.90167	9/27/2024	11:15:44 AM
2	8.00000	1	40.73000	4.02987	0.0	-1.4	8.12572	9/27/2024	11:16:41 AM
3	4.00000	1	20.59537	2.09172	0.0	0.7	3.97377	9/27/2024	11:17:38 AM
4	2.00000	1	10.57463	1.07909	0.0	-0.2	2.00319	9/27/2024	11:18:35 AM
5	1.00000	1	5.39067	0.53748	0.0	-1.0	1.00875	9/27/2024	11:19:32 AM
6	0.40000	1	2.14965	0.21669	0.0	0.9	0.39567	9/27/2024	11:20:30 AM
7	0.20000	1	1.01567	0.09995	0.0	8.2	0.18274	9/27/2024	11:21:28 AM
8	0.10000	1	0.57991	0.05550	0.0	-1.1	0.10114	9/27/2024	11:22:26 AM
9	0.05000	1	0.31960	0.02905	0.0	-4.1	0.05244	9/27/2024	11:23:24 AM
10	0.00000	1	0.04626	0.00324			0.00136	9/27/2024	11:24:20 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 9/27/2024

Original Run Filename: OM_9-27-2024_05-41-37PM.OMN Created: 9/27/2024 5:41:37 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-27-2024_05-41-37PM.OMN Last Modified: 9/27/2024 6:21:25 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

G

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39117	98%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	3.98807	100%		
	Known Conc:		100.00000			
CCB	1	S10	0.02564	✓		
	Known Conc:		100.00000			
WG1977013-1 T; BLK 9/27	1	1	0.05029			96%
WG1977013-2 T; HI LCS; 5X	1	2	38.47638		15.00	99%
LO LCS T	1	3	3.95343		3.00	
~~L2453824-01 T~~	1	~~4~~	~~74.54308~~		~~6.00~~	need dilution
~~L2453824-02 T~~	1	~~5~~	~~6.65808~~		~~3.00~~	
WG1977013-4 T; 53824.2 MS	1	6	13.40665		3.00	97%
WG1977013-3 T; 53824.2 DUP	1	7	6.00234	✓	3.00	6%
L2453803-01 T	1	8	12.14290		6.00	
L2453812-01 T	1	9	18.13987		3.00	
L2453772-01 T	1	10	15.72147		60.00	
CCV 0.4000	1	S6	0.41954	105%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.99508	100%		
	Known Conc:		100.00000			
CCB	1	S10	0.03208	✓		
	Known Conc:		100.00000			
L2453904-01 T	1	11	34.74514		6.00	
L2453902-02 T	1	12	5.44564		3.00	
L2453897-01 T	1	13	8.71633		6.00	
L2453971-01 T	1	14	13.82959		3.00	
~~L2453976-01 T~~	1	~~15~~	~~55.72223~~		~~3.00~~	
~~L2453977-01 T~~	1	~~16~~	~~4.68712~~		~~3.00~~	
L2453980-01 T	1	17	1.93847		3.00	
~~L2454350-01 T~~	1	~~18~~	~~38.36639~~		~~3.00~~	
~~L2453970-02 T~~	1	~~19~~	~~7.02377~~		~~15.00~~	
L2453978-02 T	1	20	3.03599		30.00	
CCV 0.4000	1	S6	0.41717	104%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.94417	99%		
	Known Conc:		100.00000			
CCB	1	S10	0.03870	✓		
	Known Conc:		100.00000			
L2453824-02 T	1	21	5.62861	✓	3.00	
L2453824-01 T; 10X	1	22	79.77843		60.00	
L2453976-01 T; 10X	1	23	70.97161		30.00	
L2453977-01 T	1	24	3.56002		3.00	
L2454350-01 T; 10X	1	25	43.12190		30.00	
L2453970-02 T	1	26	2.95176		15.00	
CCV 0.4000	1	S6	0.40527	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.97550	100%		
	Known Conc:		100.00000			
CCB	1	S10	0.03964	✓		
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/27/2024

Channel 2 (Ammonia High) - Current View

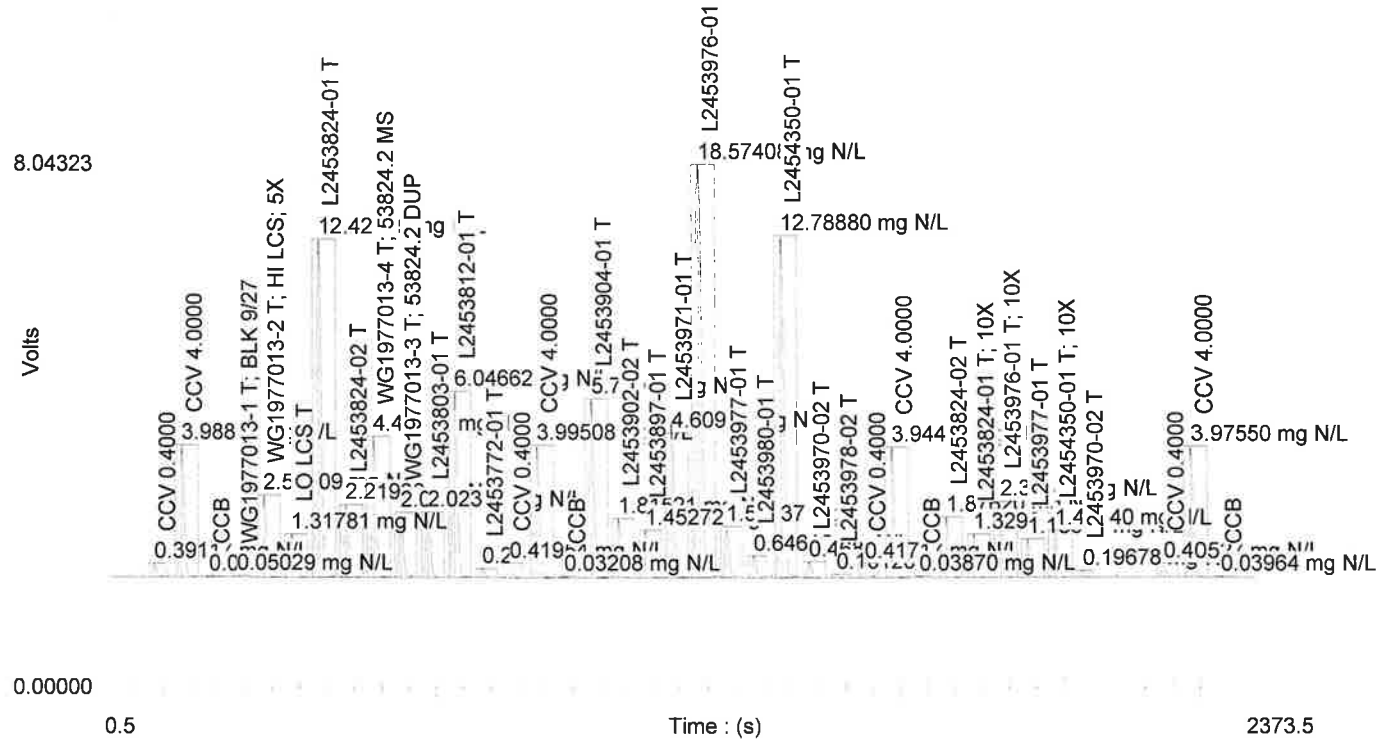
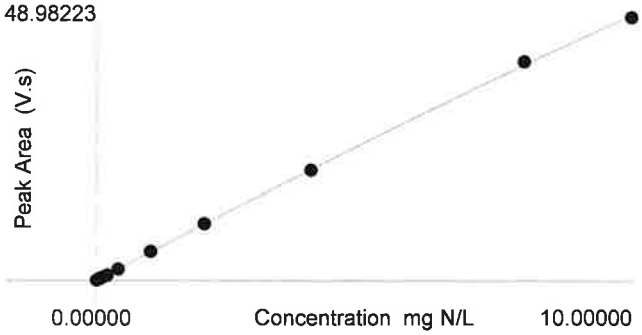


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	48.98223	4.78051	0.0	0.8	9.90167	9/27/2024	11:15:44 AM
2	8.00000	1	40.73000	4.02987	0.0	-1.4	8.12572	9/27/2024	11:16:41 AM
3	4.00000	1	20.59537	2.09172	0.0	0.7	3.97377	9/27/2024	11:17:38 AM
4	2.00000	1	10.57463	1.07909	0.0	-0.2	2.00319	9/27/2024	11:18:35 AM
5	1.00000	1	5.39067	0.53748	0.0	-1.0	1.00875	9/27/2024	11:19:32 AM
6	0.40000	1	2.14965	0.21669	0.0	0.9	0.39567	9/27/2024	11:20:30 AM
7	0.20000	1	1.01567	0.09995	0.0	8.2	0.18274	9/27/2024	11:21:28 AM
8	0.10000	1	0.57991	0.05550	0.0	-1.1	0.10114	9/27/2024	11:22:26 AM
9	0.05000	1	0.31960	0.02905	0.0	-4.1	0.05244	9/27/2024	11:23:24 AM
10	0.00000	1	0.04626	0.00324			0.00136	9/27/2024	11:24:20 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 9/27/2024

Original Run Filename: OM_9-27-2024_06-22-02PM.OMN Created: 9/27/2024 6:22:02 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-27-2024_06-22-02PM.OMN Last Modified: 9/27/2024 6:53:20 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

H

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39903	100%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1	99%		
CCV 4.0000	1	S3	3.95646			
	Known Conc:		100.00000			
CCB	1	S10	0.03272			
	Known Conc:		100.00000			
WG1977009-1 T; BLK 9/27	1	1	0.02395			84%
WG1977009-2 T; HI LCS; 5X	1	2	33.67763		15.00	95%
LO LCS T	1	3	3.77964		3.00	
L2454352-01 T	1	4	0.26281		3.00	76%
WG1977009-4 T; 54352.1 MS	1	5	6.05413		3.00	MC (Li+K)
WG1977009-3 T; 54352.1 DUP	1	6	0.32017		3.00	
L2453894-01 T	1	7	0.19723		3.00	
L2453894-02 T	1	8	0.49214		6.00	
L2453894-03 T	1	9	0.07058		3.00	
L2453894-04 T	1	10	0.16724		3.00	
CCV 0.4000	1	S6	0.40182	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.90865	98%		
	Known Conc:		100.00000			
CCB	1	S10	0.03162			
	Known Conc:		100.00000			
L2453894-05 T	1	11	0.20410		3.00	
L2453894-06 T	1	12	0.14825		3.00	
L2453894-07 T	1	13	0.11145		3.00	
L2453894-08 T	1	14	0.21947		3.00	
L2453894-09 T	1	15	1.06423		3.00	
L2453894-10 T	1	16	0.14166		3.00	
L2453894-11 T	1	17	0.11067		3.00	
L2453081-01 T	1	18	0.52215		3.00	
L2453081-02 T	1	19	0.26692		3.00	
L2453081-03 T	1	20	0.81257		6.00	
CCV 0.4000	1	S6	0.39819	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.86000	97%		
	Known Conc:		100.00000			
CCB	1	S10	0.02932			
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/27/2024

Channel 2 (Ammonia High) - Current View

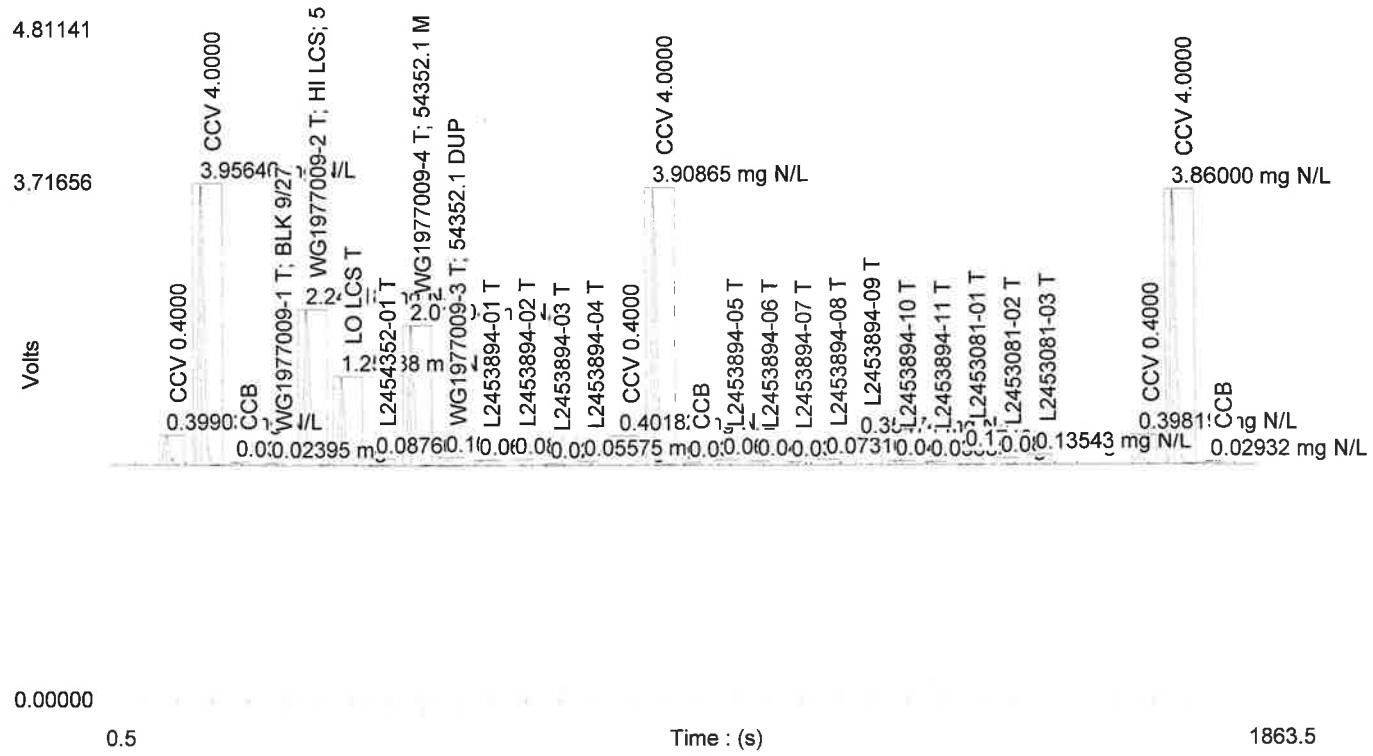
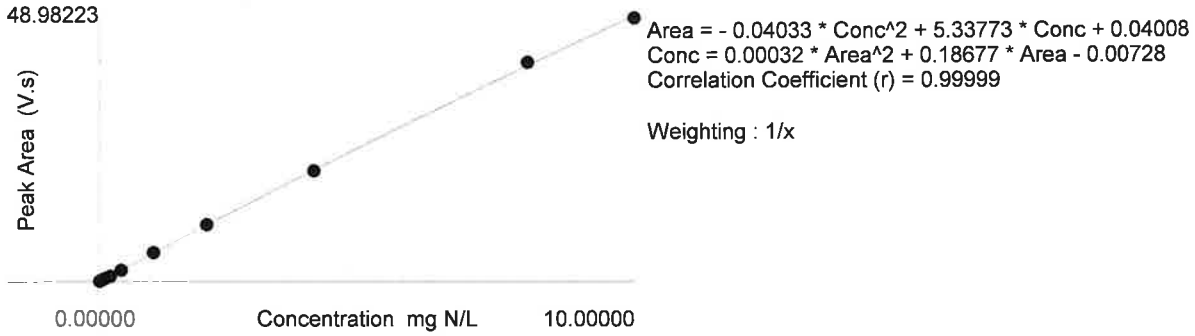


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	48.98223	4.78051	0.0	0.8	9.90167	9/27/2024	11:15:44 AM
2	8.00000	1	40.73000	4.02987	0.0	-1.4	8.12572	9/27/2024	11:16:41 AM
3	4.00000	1	20.59537	2.09172	0.0	0.7	3.97377	9/27/2024	11:17:38 AM
4	2.00000	1	10.57463	1.07909	0.0	-0.2	2.00319	9/27/2024	11:18:35 AM
5	1.00000	1	5.39067	0.53748	0.0	-1.0	1.00875	9/27/2024	11:19:32 AM
6	0.40000	1	2.14965	0.21669	0.0	0.9	0.39567	9/27/2024	11:20:30 AM
7	0.20000	1	1.01567	0.09995	0.0	8.2	0.18274	9/27/2024	11:21:28 AM
8	0.10000	1	0.57991	0.05550	0.0	-1.1	0.10114	9/27/2024	11:22:26 AM
9	0.05000	1	0.31960	0.02905	0.0	-4.1	0.05244	9/27/2024	11:23:24 AM
10	0.00000	1	0.04626	0.00324			0.00136	9/27/2024	11:24:20 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 9/27/2024

Original Run Filename: OM_9-27-2024_08-42-25PM.OMN Created: 9/27/2024 8:42:25 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-27-2024_08-42-25PM.OMN Last Modified: 9/27/2024 9:09:58 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

I

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.41719	104%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.88543	97%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.04127			
	Known Conc:		100.00000			
WG1977181-1; BLK 9/27	1	1	0.01510		1.50	
WG1977181-2; HI LCS; 5X	1	2	19.16697		7.50	96%
LO LCS	1	3	1.90370		1.50	95%
L2453576-01	1	4	0.13133		1.50	
L2453576-02	1	5	0.49503		1.50	
L2453576-03	1	6	3.49104		1.50	
L2453576-04	1	7	1.65419		1.50	
L2453576-05	1	8	0.21769		1.50	
L2453576-06; 10X	1	9	36.31173		15.00	
L2453576-07	1	10	7.04189		30.00	
CCV 0.4000	1	S6	0.43397	105%		
	Known Conc:		100.00000	98%		
CCV 4.0000	1	S3	3.91812			
	Known Conc:		100.00000			
CCB	1	S10	0.02748			
	Known Conc:		100.00000			
L2454051-01	1	11	0.17037		1.50	
L2454051-02	1	12	2.00438		1.50	104%
L2454051-03	1	13	0.12691		1.50	40% (<5xRL)
WG1977181-4; 54051.3 MS	1	14	4.28444		1.50	
WG1977181-3; 54051.3 DUP	1	15	0.19069		1.50	
CCV 0.4000	1	S6	0.39187	98%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.88899	97%		
	Known Conc:		100.00000			
CCB	1	S10	0.02333			
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/27/2024

Channel 2 (Ammonia High) - Current View

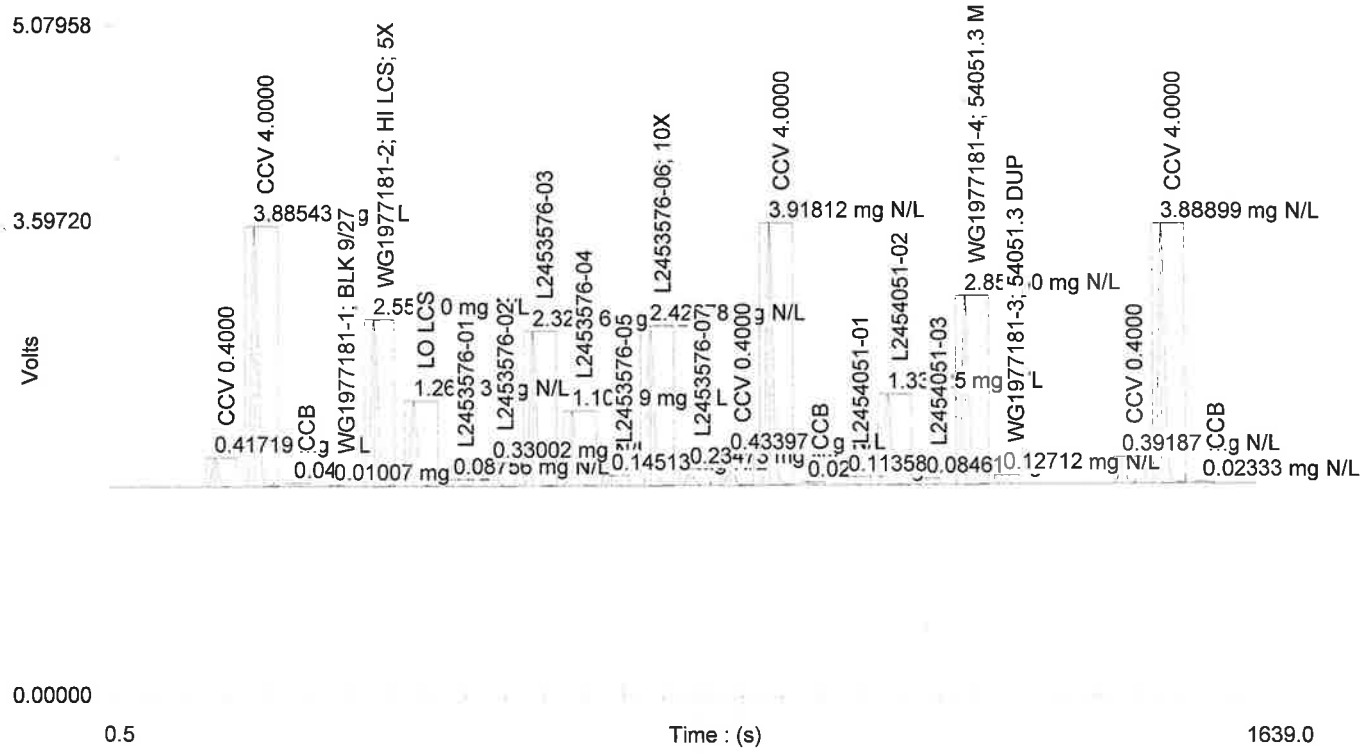
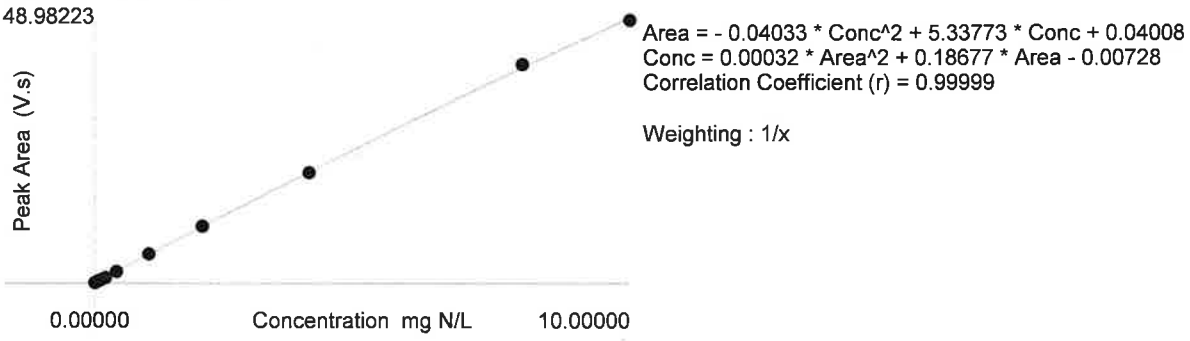


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	48.98223	4.78051	0.0	0.8	9.90167	9/27/2024	11:15:44 AM
2	8.00000	1	40.73000	4.02987	0.0	-1.4	8.12572	9/27/2024	11:16:41 AM
3	4.00000	1	20.59537	2.09172	0.0	0.7	3.97377	9/27/2024	11:17:38 AM
4	2.00000	1	10.57463	1.07909	0.0	-0.2	2.00319	9/27/2024	11:18:35 AM
5	1.00000	1	5.39067	0.53748	0.0	-1.0	1.00875	9/27/2024	11:19:32 AM
6	0.40000	1	2.14965	0.21669	0.0	0.9	0.39567	9/27/2024	11:20:30 AM
7	0.20000	1	1.01567	0.09995	0.0	8.2	0.18274	9/27/2024	11:21:28 AM
8	0.10000	1	0.57991	0.05550	0.0	-1.1	0.10114	9/27/2024	11:22:26 AM
9	0.05000	1	0.31960	0.02905	0.0	-4.1	0.05244	9/27/2024	11:23:24 AM
10	0.00000	1	0.04626	0.00324			0.00136	9/27/2024	11:24:20 AM

Figure : 1 (Ammonia)



Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: SCDOH-DR	**Matrix**	: WATER
Lab Sample ID	: L2454352-01		
Matrix Spike	: WG1977009-4	**MS Analysis Date**	: 09/27/24 18:29
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Total Kjeldahl	0.263J	8	6.05	76	Q					77-111	24

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: SCDOH-DR	**Matrix**	: WATER
Lab Sample ID	: L2454352-01	**Analysis Date**	: 09/27/24 18:28
Dup Sample ID	: WG1977009-3	**DUP Analysis Date**	: 09/27/24 18:30

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	0.263J	0.320	NC	24

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1977009-2	**LCS Analysis Date**	: 09/27/24 18:26
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Nitrogen, Total Kjeldahl	40.0	33.7	84.					78-122	24

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	4500NH3-H	28 days	1 - Plastic 500ml H2SO4 preserved
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	351.1	28 days	1 - Plastic 500ml H2SO4 preserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	150	31.5	mg/kg	81-115	26	43-160	26	26	4500NH3-H	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Nitrogen in TKN

Aqueous samples:

Compute sample TKN –N concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

If the sample has a concentration of less than 2ppm, calculate results by using the low curve generated on Channel 1.

If the sample concentration is greater than 2ppm, calculate the results by using the high curve generated on Channel 2.

To Compute the final results for aqueous samples, multiply the direct reading by the dilution factor based on the initial preparation volume. (also done using software)

TKN-N mg/L = mg/L direct reading x dilution factor

Sequence Logs

Project No. _____

idential Book No. _____ TITLE NH_3 9/27/24 KBP

Page No. ____

Tray A (11-09-24AM 11-44-07AM)
prep 9/26/24 @21:32

Hi IW 8.0
Lo IW 1.0
FeB
WM976789-1; Blk
-2; LCS Hi; 5x
LCS Lo
53511-01 (5x)
02
53512-01 (5x)
02
53626-01
-01 MS
-01 Dup
-02 (10x)
-03
-04
-05
-06
-07
-08
537111 -01
-02
-03
-04
-05
-06
-07
-08
-08 MS
-08 Dup

KBP

Tray B (01-36-23PM)
prep 9/26/24 @22:07

1 WM976792-1; Blk
2 -2; LCS Hi; 5x
3 LCS Lo
4 523007-01
5 -01 MS
6 -01 Dup
7 52327-01
8 52346-01
9 -02
10 -03
11 -04
12 53534-02
13 53550-02
14 53599-02
15 53657-01
16 53658-03
17 -04
18 -05
19 -06
20 -07
21 -08
22 53663-01 (5x)
23 53672-02
24 53772-01
25 53803-01 (5x)

Date: 9/27/24
Sodium Phenolate: 8/30/24 R-4065
Sodium Hypochlorate: 8/30/24 stop/stop
Sodium Nitropruisside: 8/30/24 R-3469
Borric Acid Soln.: 8/30/24 R-4019
ICV 1.0: 9/23/24 WC-3438
ICV 8.0:
Cal. Std: 8/30/24 WC-3392
See Front Page for Instructions:

To Page No. ____

essed & Understood by me, | Date | Invented by: | Date
Recorded by:

TITLE NIH; 9127127

Project No. _____

Book No. _____

Confi

From Page No. ___

Tray C (03-07-38PM)

pp 9127c 1:40

1 wk1976942-1
2 -2
3 LoL
4 53804.1
5 53811.1 (2x)
2
6
7 53812.1 Q 10x (1mL+10)
8 53816.1 Q
9 53825.1 (5x)
10 2
11 53826.1
12 53844.1 Q 10x (1mL+10)
13 2 ⊗
14 53890.1
15 53891.2
16 53894.1
17 2 (2x)
18 3
19 4
20 54654.2
21 2 ws
22 2 DW
23 55272.1 (2x)
24 2
25 53893.1
26
27
28 03-24-02PM

tg: D (04-21-58PM)

Pkg 9/26/24 @ 2147

1 wk1976790-1; Blu 9/26 (1976791
2 wk1976790-2; Hi ws -5x
3 6 ws
4 53539.1 (2x)
5 wk1976791-4; 53539.1 ws (2x)
6 wk1976791-3; 53539.1 Bg (2x)
7 53532.2
8 53711.9
9 wk1976790-4; 53711.9 ws
10 wk1976790-3; 53711.9 Bg
11 53711.10
12 .11

tg: E (04-27-11PM)

Pkg 9/26/24 @ 2245

1 wk1976892-1; Blu 9/26
2 wk1976892-2; Hi ws -5x
3 6 ws
4 52930.15
5 wk1976892-4; 52930.15 ws
6 wk1976892-3; 52930.15 Bg

tg: F (05-24-04PM)

Pkg 9/26/24 @ 2145

1 wk1976891-1 T; Blu 9/26
2 wk1976891-2 T; Hi ws -5x
3 6 ws
4 52930.1 T -5x
5 wk1976891-4 T; 52930.1 ws -5x
6 wk1976891-3 T; 52930.1 Bg -5x

To Page N

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

NHS 9/27/24 (AT) Cont.

tg-b (05-41378m)
Prep 9/27/24 @0653

1 wb-197013-1 T; Blu 9/27
2 wb-197013-2 T; Hi ms T+
3 Lo ms
4 53824.1 T (2+) -10+
5 .2 T
6 wb-197013-4 T; 53824.2 ms
7 wb-197013-3 T; 53824.2 ng
8 53803.1 T (2+)
9 53812.1 T
10 53772.1 T (20+)
11 53804.1 T (2+)
12 53902.2 T
13 53897.1 T (2+)
14 53971.1 T
15 53976.1 T -10 T
16 53977.1 T
17 53980.1 T
18 54350.1 T -10 +
19 53970.2 T (5+)
20 53978.2 T (10+)

tg: H (06-22-02 pm)
Prep 9/27/24 @0646

1 wb-197009-1 T; Blu 9/27
2 wb-197009-2 T; Hi ms T+
3 Lo ms T
4 54352.1 T
5 wb-197009-4 T; 54352.1 ms
6 wb-197009-3 T; 54352.1 ng
7 53894.1 T
8 .2 T (2+)
9 .3 T
10 .4 T
11 .5 T
12 .6 T
13 .7 T
14 .8 T
15 .9 T
16 .10 T
17 .4 T
18 53081.1 T
19 .2 T
20 .3 T (2+)

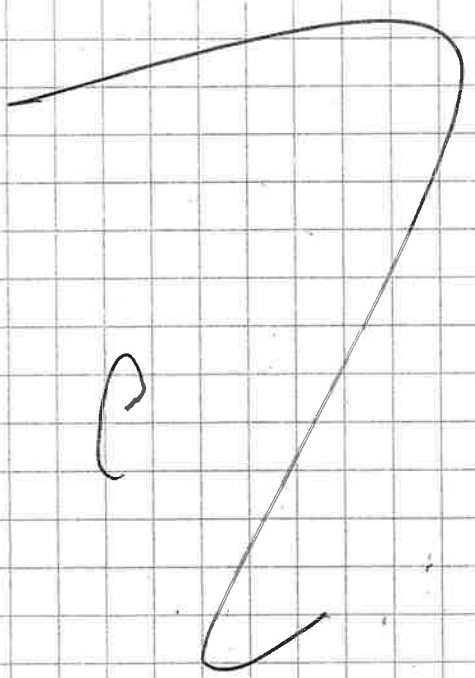
To Page No. ____

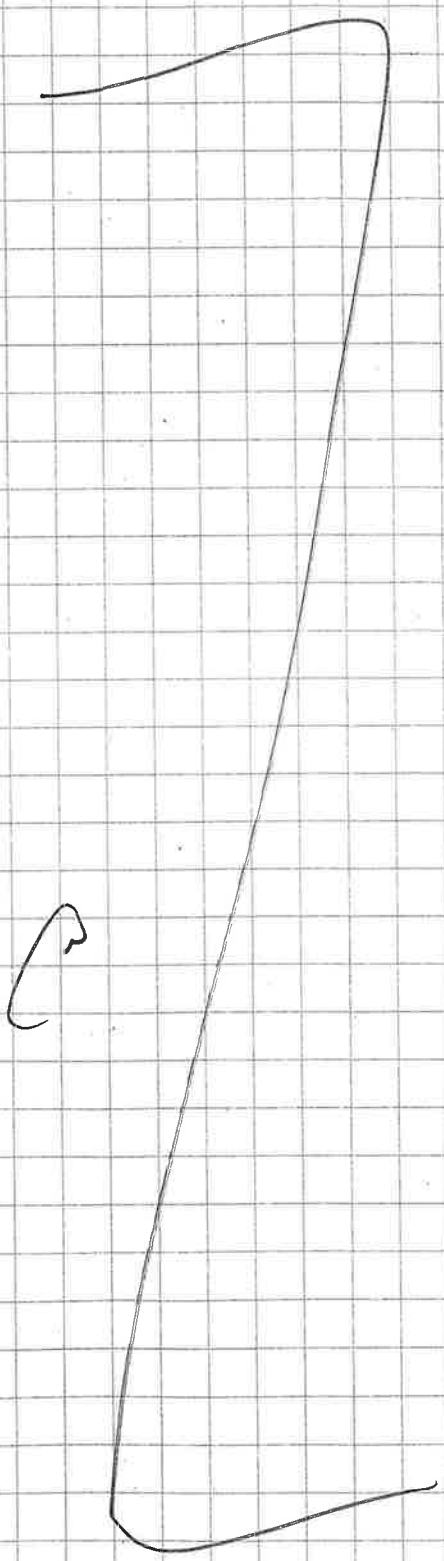
sed & Understood by me, Date Invented by: Date
Recorded by:

From Page No. ____

tj-I (08-42-25 PM)
Pigs 9/27/24 @1740

1 WL(977181-1; Blk 9/27
2 WL(977181-2; Hi wg Tx
3 Lo wg
4 53576.1
5 .2
6 .3
7 .4
8 .5
9 .6 -10x
10 .7(20+)
11 54051.1
12 .2
13 .3
14 WL(977181-4; 54051.3 wg
15 WL(977181-3; 54051.3 Pg





To Page N

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Sample Preparation

Sample	Volume 50ml	Dilution	Final Volume 150 mL
Blank		1x	
Low			
High			
53081 - 1			
- 2			
- 3			
53894 - 1		2x(25↑50) Mx.	
- 2		1x	
- 3		2x(25↑50) Mx.	
- 4		1x	
- 5			
- 6			
- 7			
- 8			
- 9			
- 10			
- 11			
54352 - 1 PA			
- 1 Dup			
- 1 MS			

Same standards and reagents as pg. #112

09/27/24 @ 06:46 AJC

Distilled by SAD 09 27 24 @ 16:30

Nitrate and Nitrite Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 07:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240924-B1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	3.4	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975296-1	**Date Collected**	: NA
Client ID	: WG1975296-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 03:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240924-A1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975296-3	**Date Collected**	: 09/18/24 09:05
Client ID	: WG1975296-3 DUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/24/24 09:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240924-C1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	3.8	0.10	0.05	

Sample Raw Data

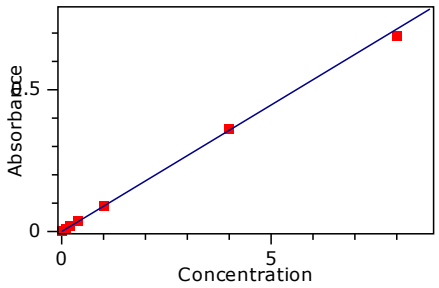
Graphical report generated by FIAsoft v3.1.10
Report generated on 2024-09-24 06:11:22
Data file (.dat): C:\FIAlab\Autosave Data\2024-09-24-061102.dat

Dataset Notes:

Analyst	

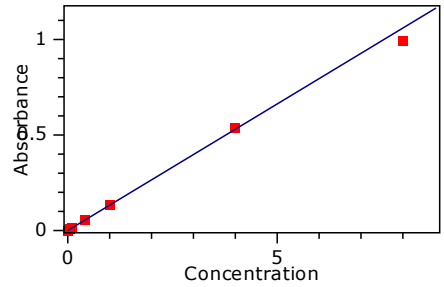
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: -0.00010
B: 0.08927
R^2: 0.99950
RSE(%): 2.27501
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
2	NOx 8.0ppm	0.68930	8.00000	7.72280	3.46	2024-09-24T03:16:51
3	NOx 4.0ppm	0.36120	4.00000	4.04740	1.19	2024-09-24T03:18:01
4	NOx 1.0ppm	0.08960	1.00000	1.00470	0.47	2024-09-24T03:19:08
5	NOx 0.4ppm	0.03640	0.40000	0.40850	2.12	2024-09-24T03:20:16
6	NOx 0.2ppm	0.01800	0.20000	0.20240	1.18	2024-09-24T03:21:26
7	NOx 0.1ppm	0.00870	0.10000	0.09890	1.08	2024-09-24T03:22:36
8	NOx 0.0ppm	0.00010	0.00000	0.00240	NA	2024-09-24T03:23:45



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00031
B: 0.13245
R^2: 0.99841
RSE(%): 4.16024
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
9	Nitrite 8.0ppm	0.99100	8.00000	7.47950	6.51	2024-09-24T03:24:45
10	Nitrite 4.0ppm	0.53820	4.00000	4.06100	1.53	2024-09-24T03:25:55
11	Nitrite 1.0ppm	0.13610	1.00000	1.02510	2.51	2024-09-24T03:27:02
12	Nitrite 0.4ppm	0.05540	0.40000	0.41610	4.02	2024-09-24T03:28:12
13	Nitrite 0.1ppm	0.01370	0.10000	0.10100	0.98	2024-09-24T03:29:21
14	Nitrite 0.05ppm	0.00690	0.05000	0.04950	1.08	2024-09-24T03:30:31
15	Nitrite 0.0ppm	0.00010	0.00000	-0.00160	NA	2024-09-24T03:32:03

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0011	1	1	1	0.0134		2024-09-24T03:15:36
NOx 8.0ppm	2	Standard	8	0.6893	1	1	1	7.7228		2024-09-24T03:16:51
NOx 4.0ppm	3	Standard	4	0.3612	1	1	1	4.0474		2024-09-24T03:18:01
NOx 1.0ppm	4	Standard	1	0.0896	1	1	1	1.0047		2024-09-24T03:19:08
NOx 0.4ppm	5	Standard	0.4	0.0364	1	1	1	0.4085		2024-09-24T03:20:16
NOx 0.2ppm	6	Standard	0.2	0.0180	1	1	1	0.2024		2024-09-24T03:21:26
NOx 0.1ppm	7	Standard	0.1	0.0087	1	1	1	0.0989		2024-09-24T03:22:36
NOx 0.0ppm	8	Standard	0	0.0001	1	1	1	0.0024		2024-09-24T03:23:45
Nitrite 8.0ppm	9	Standard	?	0.6946	1	1	1	7.7821	OVR	2024-09-24T03:24:57
Nitrite 4.0ppm	10	Standard	?	0.3656	1	1	1	4.0971		2024-09-24T03:26:07
Nitrite 1.0ppm	11	Standard	?	0.0909	1	1	1	1.0194		2024-09-24T03:27:15
Nitrite 0.4ppm	12	Standard	?	0.0366	1	1	1	0.4109		2024-09-24T03:28:23
Nitrite 0.1ppm	13	Standard	?	0.0089	1	1	1	0.1004		2024-09-24T03:29:33
Nitrite 0.05ppm	14	Standard	?	0.0045	1	1	1	0.0513		2024-09-24T03:30:43
Nitrite 0.0ppm	15	Standard	?	0.0001	1	1	1	0.0018		2024-09-24T03:32:08
CCV NO3	16	QC	1	0.0900	1	1	1	1.0091		2024-09-24T03:33:01
CCV NO2	17	QC	?	0.0906	1	1	1	1.0159		2024-09-24T03:34:07
CCB	18	QC	0	0.0000	1	1	1	0.0014		2024-09-24T03:35:15
ICV NO3 5.0	19	QC	5	0.4361	1	1	1	4.8868		2024-09-24T03:36:25
ICV NO2 5.0	20	QC	?	0.4344	1	1	1	4.8669		2024-09-24T03:37:33
ICV NO3 0.5	21	QC	0.5	0.0427	1	1	1	0.4791		2024-09-24T03:38:41
ICV NO2 0.5	22	QC	?	0.0435	1	1	1	0.4879		2024-09-24T03:39:49
ICB	23	QC	0	0.0000	1	1	1	0.0008		2024-09-24T03:40:32
BLANK NO3	24	Unknown	?	0.0000	1	1	1	0.0015		2024-09-24T03:42:10
LCS NO3	25	Unknown	?	0.4351	1	1	1	4.8756		2024-09-24T03:43:13
BLANK NO2	26	Unknown	?	-0.0002	1	1	1	-0.0007		2024-09-24T03:43:53
LCS NO2	27	Unknown	?	0.4309	1	1	1	4.8278		2024-09-24T03:45:26
CCV NO3	28	QC	1	0.0891	1	1	1	0.9993		2024-09-24T03:46:32
CCV NO2	29	QC	?	0.0910	1	1	1	1.0205		2024-09-24T03:47:38
CCB	30	QC	0	0.0000	1	1	1	0.0014		2024-09-24T03:48:47
WG1975294-1	31	Unknown	?	0.0001	1	1	1	0.0020		2024-09-24T03:50:05
WG1975294-2	32	Unknown	?	0.4367	1	1	1	4.8927		2024-09-24T03:51:04

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG1975295-1	33	Unknown	?	-0.0002	1	1	1	-0.0010		2024-09-24T03:51:43
WG1975295-2	34	Unknown	?	0.4386	1	1	1	4.9144		2024-09-24T03:53:15
WG1975296-1	35	Unknown	?	-0.0001	1	1	1	0.0000		2024-09-24T03:53:55
WG1975296-2	36	Unknown	?	0.4386	1	1	1	4.9141		2024-09-24T03:55:28
WG1975297-1	37	Unknown	?	-0.0001	1	1	1	0.0002		2024-09-24T03:56:09
WG1975297-2	38	Unknown	?	0.4383	1	1	1	4.9110		2024-09-24T03:57:42
L2453804-01	39	Unknown	?	0.1071	1	1	1	1.2010		2024-09-24T03:58:49
WG1975294-3	40	Unknown	?	0.1069	1	1	1	1.1985		2024-09-24T03:59:56
CCV NO3	41	QC	1	0.0908	1	1	1	1.0182		2024-09-24T04:01:02
CCV NO2	42	QC	?	0.0916	1	1	1	1.0276		2024-09-24T04:02:07
CCB	43	QC	0	0.0000	1	1	1	0.0014		2024-09-24T04:03:15
WG1975294-4	44	Unknown	?	0.4626	1	1	1	5.1828		2024-09-24T04:04:26
L2453807-02	45	Unknown	?	0.1935	1	1	1	2.1690		2024-09-24T04:05:34
WG1975294-5	46	Unknown	?	0.1939	1	1	1	2.1730		2024-09-24T04:06:40
WG1975294-6	47	Unknown	?	0.5447	1	1	1	6.1028		2024-09-24T04:07:46
L2453808-03	48	Unknown	?	0.0007	1	1	1	0.0092		2024-09-24T04:08:51
L2453894-01	49	Unknown	?	0.0040	1	1	1	0.0458		2024-09-24T04:09:57
L2453894-02	50	Unknown	?	0.5222	1	1	1	5.8512		2024-09-24T04:11:01
L2453894-03	51	Unknown	?	0.2097	1	1	1	2.3506		2024-09-24T04:12:07
L2453894-04	52	Unknown	?	0.0079	1	1	1	0.0897		2024-09-24T04:13:11
L2453894-05	53	Unknown	?	0.0153	1	1	1	0.1730		2024-09-24T04:14:15
CCV NO3	54	QC	1	0.0897	1	1	1	1.0063		2024-09-24T04:15:20
CCV NO2	55	QC	?	0.0902	1	1	1	1.0115		2024-09-24T04:16:26
CCB	56	QC	0	0.0001	1	1	1	0.0022		2024-09-24T04:17:35
L2453894-06	57	Unknown	?	0.0155	1	1	1	0.1752		2024-09-24T04:18:47
L2453894-07	58	Unknown	?	0.0206	1	1	1	0.2319		2024-09-24T04:19:56
L2453894-08	59	Unknown	?	0.0054	1	1	1	0.0611		2024-09-24T04:21:03
L2453894-09	60	Unknown	?	0.0010	1	1	1	0.0125		2024-09-24T04:22:10
L2453894-10	61	Unknown	?	0.0196	1	1	1	0.2212		2024-09-24T04:23:17
L2453894-11	62	Unknown	?	0.0011	1	1	1	0.0132		2024-09-24T04:24:23
CCV NO3	63	QC	1	0.0888	1	1	1	0.9959		2024-09-24T04:25:28
CCV NO2	64	QC	?	0.0900	1	1	1	1.0091		2024-09-24T04:26:34
CCB	65	QC	0	0.0000	1	1	1	0.0011		2024-09-24T04:27:19

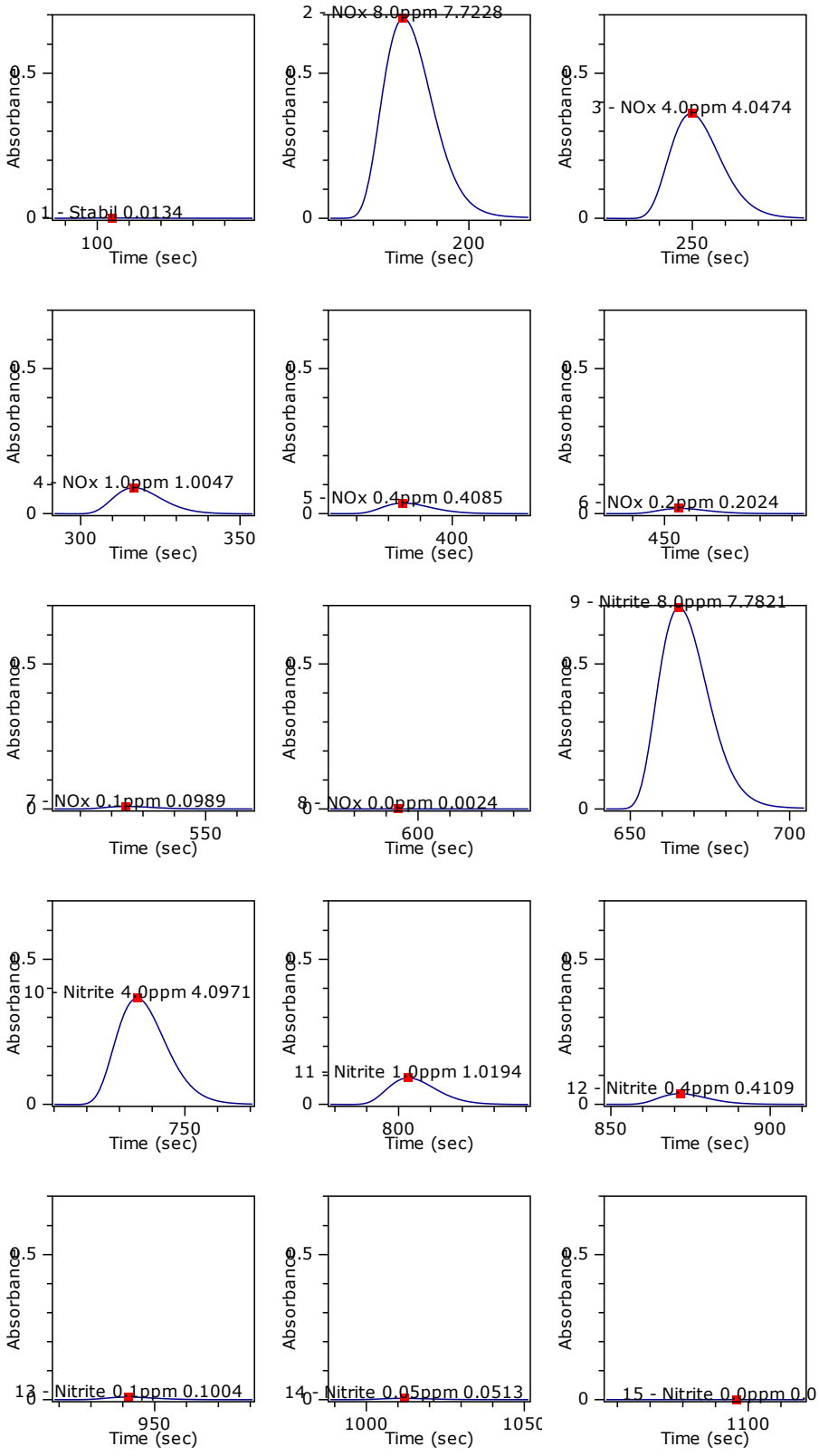
Channel: 2-NO2

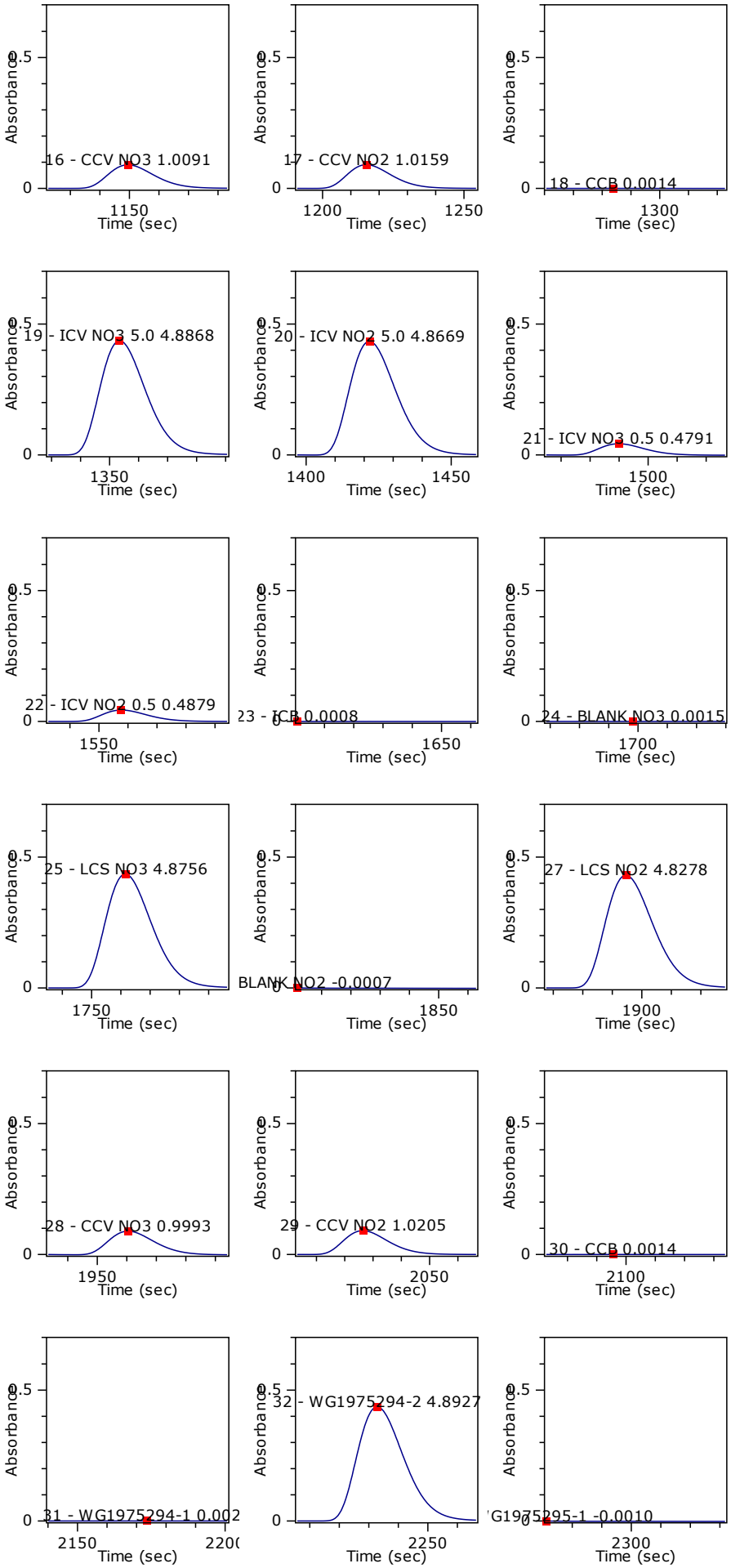
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0018		2024-09-24T03:15:56
NOx 8.0ppm	2	Standard	?	0.0000	1	1	1	-0.0020		2024-09-24T03:16:36
NOx 4.0ppm	3	Standard	?	0.0001	1	1	1	-0.0017		2024-09-24T03:17:56
NOx 1.0ppm	4	Standard	?	0.0001	1	1	1	-0.0019		2024-09-24T03:19:39
NOx 0.4ppm	5	Standard	?	0.0001	1	1	1	-0.0017		2024-09-24T03:20:33
NOx 0.2ppm	6	Standard	?	0.0000	1	1	1	-0.0021		2024-09-24T03:21:18
NOx 0.1ppm	7	Standard	?	0.0001	1	1	1	-0.0017		2024-09-24T03:23:13
NOx 0.0ppm	8	Standard	?	0.0000	1	1	1	-0.0019		2024-09-24T03:24:17
Nitrite 8.0ppm	9	Standard	8	0.9910	1	1	1	7.4795		2024-09-24T03:24:45
Nitrite 4.0ppm	10	Standard	4	0.5382	1	1	1	4.0610		2024-09-24T03:25:55
Nitrite 1.0ppm	11	Standard	1	0.1361	1	1	1	1.0251		2024-09-24T03:27:02
Nitrite 0.4ppm	12	Standard	0.4	0.0554	1	1	1	0.4161		2024-09-24T03:28:12
Nitrite 0.1ppm	13	Standard	0.1	0.0137	1	1	1	0.1010		2024-09-24T03:29:21
Nitrite 0.05ppm	14	Standard	0.05	0.0069	1	1	1	0.0495		2024-09-24T03:30:31
Nitrite 0.0ppm	15	Standard	0	0.0001	1	1	1	-0.0016		2024-09-24T03:32:03
CCV NO3	16	QC	?	0.0001	1	1	1	-0.0018		2024-09-24T03:33:03
CCV NO2	17	QC	1	0.1361	1	1	1	1.0248		2024-09-24T03:33:54
CCB	18	QC	0	0.0001	1	1	1	-0.0019		2024-09-24T03:35:06
ICV NO3 5.0	19	QC	?	0.0001	1	1	1	-0.0018		2024-09-24T03:36:20
ICV NO2 5.0	20	QC	5	0.6427	1	1	1	4.8500		2024-09-24T03:37:21
ICV NO3 0.5	21	QC	?	0.0002	1	1	1	-0.0008		2024-09-24T03:38:31
ICV NO2 0.5	22	QC	0.5	0.0659	1	1	1	0.4953		2024-09-24T03:39:37
ICB	23	QC	0	0.0001	1	1	1	-0.0016		2024-09-24T03:40:51
BLANK NO3	24	Unknown	?	0.0001	1	1	1	-0.0015		2024-09-24T03:42:19
LCS NO3	25	Unknown	?	0.0001	1	1	1	-0.0018		2024-09-24T03:43:20
BLANK NO2	26	Unknown	?	0.0001	1	1	1	-0.0019		2024-09-24T03:44:24
LCS NO2	27	Unknown	?	0.6397	1	1	1	4.8271		2024-09-24T03:45:13
CCV NO3	28	QC	?	0.0002	1	1	1	-0.0012		2024-09-24T03:46:21
CCV NO2	29	QC	1	0.1359	1	1	1	1.0237		2024-09-24T03:47:25
CCB	30	QC	0	0.0001	1	1	1	-0.0015		2024-09-24T03:48:42
WG1975294-1	31	Unknown	?	0.0001	1	1	1	-0.0017		2024-09-24T03:49:42
WG1975294-2	32	Unknown	?	0.0001	1	1	1	-0.0015		2024-09-24T03:51:02

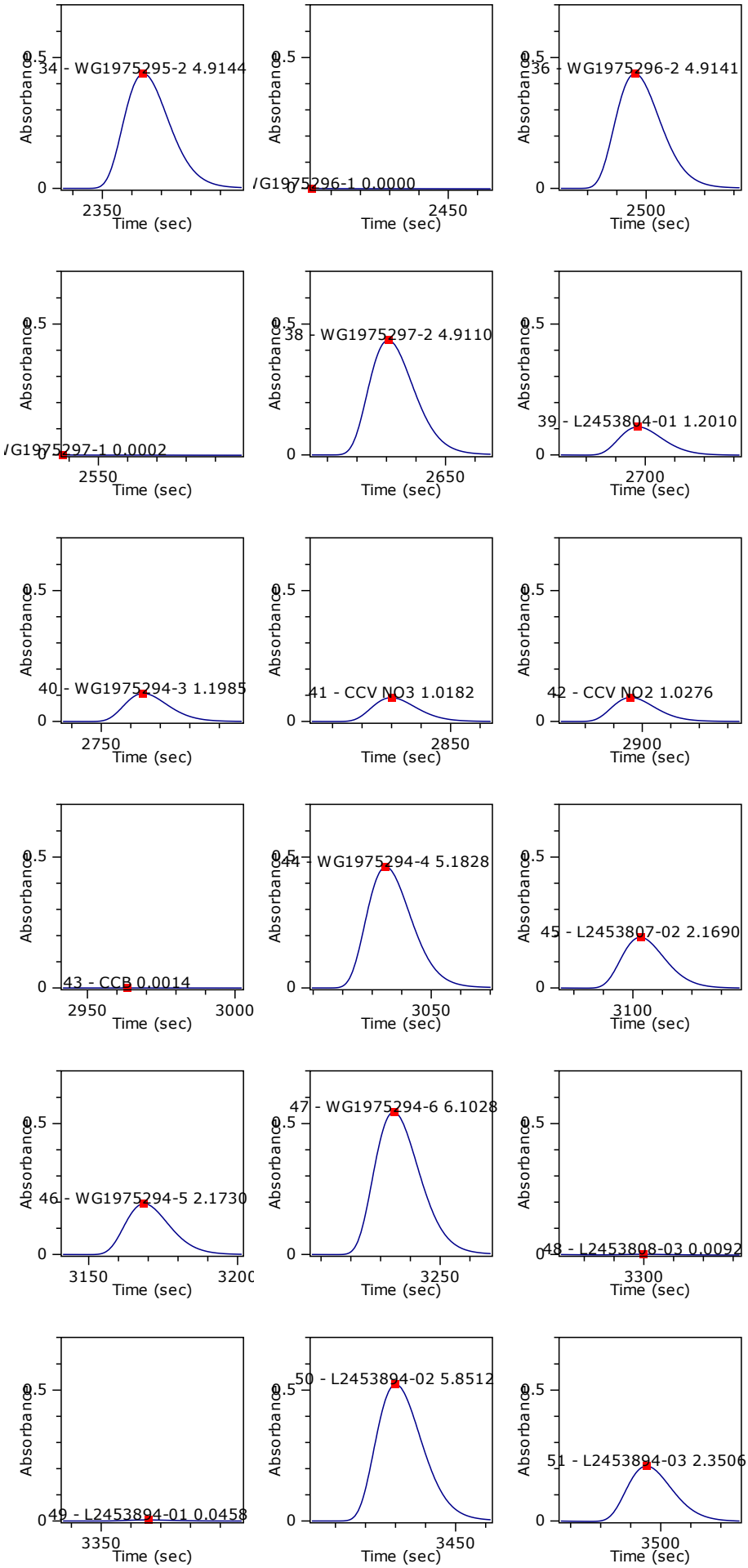
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG1975295-1	33	Unknown	?	0.0000	1	1	1	-0.0019		2024-09-24T03:52:11
WG1975295-2	34	Unknown	?	0.0001	1	1	1	-0.0016		2024-09-24T03:52:56
WG1975296-1	35	Unknown	?	0.0001	1	1	1	-0.0017		2024-09-24T03:54:24
WG1975296-2	36	Unknown	?	0.0001	1	1	1	-0.0018		2024-09-24T03:55:25
WG1975297-1	37	Unknown	?	0.0001	1	1	1	-0.0017		2024-09-24T03:56:29
WG1975297-2	38	Unknown	?	0.0001	1	1	1	-0.0017		2024-09-24T03:57:38
L2453804-01	39	Unknown	?	0.0009	1	1	1	0.0042		2024-09-24T03:58:36
WG1975294-3	40	Unknown	?	0.0002	1	1	1	-0.0010		2024-09-24T03:59:43
CCV NO3	41	QC	?	0.0001	1	1	1	-0.0018		2024-09-24T04:00:50
CCV NO2	42	QC	1	0.1373	1	1	1	1.0341		2024-09-24T04:01:54
CCB	43	QC	0	0.0001	1	1	1	-0.0018		2024-09-24T04:03:06
WG1975294-4	44	Unknown	?	0.0043	1	1	1	0.0299		2024-09-24T04:04:13
L2453807-02	45	Unknown	?	0.0000	1	1	1	-0.0020		2024-09-24T04:05:20
WG1975294-5	46	Unknown	?	0.0001	1	1	1	-0.0017		2024-09-24T04:06:23
WG1975294-6	47	Unknown	?	0.0001	1	1	1	-0.0016		2024-09-24T04:07:32
L2453808-03	48	Unknown	?	0.0006	1	1	1	0.0025		2024-09-24T04:08:38
L2453894-01	49	Unknown	?	0.0009	1	1	1	0.0046		2024-09-24T04:09:42
L2453894-02	50	Unknown	?	0.0009	1	1	1	0.0045		2024-09-24T04:10:47
L2453894-03	51	Unknown	?	0.0009	1	1	1	0.0042		2024-09-24T04:11:53
L2453894-04	52	Unknown	?	0.0018	1	1	1	0.0115		2024-09-24T04:12:57
L2453894-05	53	Unknown	?	0.0009	1	1	1	0.0048		2024-09-24T04:14:01
CCV NO3	54	QC	?	0.0000	1	1	1	-0.0021		2024-09-24T04:15:41
CCV NO2	55	QC	1	0.1347	1	1	1	1.0147		2024-09-24T04:16:12
CCB	56	QC	0	0.0001	1	1	1	-0.0016		2024-09-24T04:17:24
L2453894-06	57	Unknown	?	0.0009	1	1	1	0.0045		2024-09-24T04:18:33
L2453894-07	58	Unknown	?	0.0011	1	1	1	0.0061		2024-09-24T04:19:43
L2453894-08	59	Unknown	?	0.0009	1	1	1	0.0049		2024-09-24T04:20:50
L2453894-09	60	Unknown	?	0.0008	1	1	1	0.0038		2024-09-24T04:21:58
L2453894-10	61	Unknown	?	0.0010	1	1	1	0.0052		2024-09-24T04:23:04
L2453894-11	62	Unknown	?	0.0010	1	1	1	0.0052		2024-09-24T04:24:09
CCV NO3	63	QC	?	0.0001	1	1	1	-0.0019		2024-09-24T04:25:19
CCV NO2	64	QC	1	0.1344	1	1	1	1.0122		2024-09-24T04:26:20
CCB	65	QC	0	0.0001	1	1	1	-0.0018		2024-09-24T04:27:35

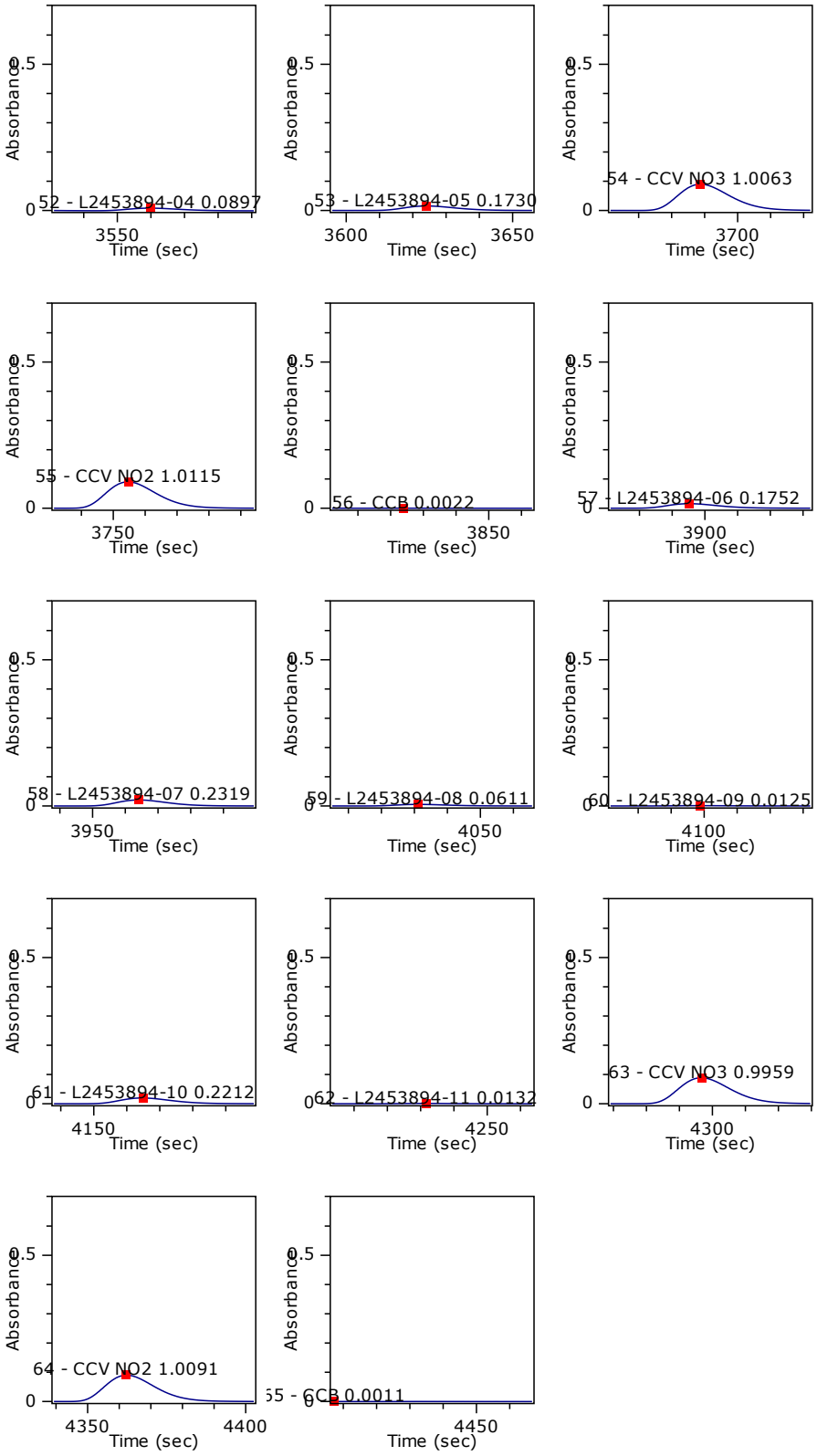
Peaks:

Channel: 1-NOx

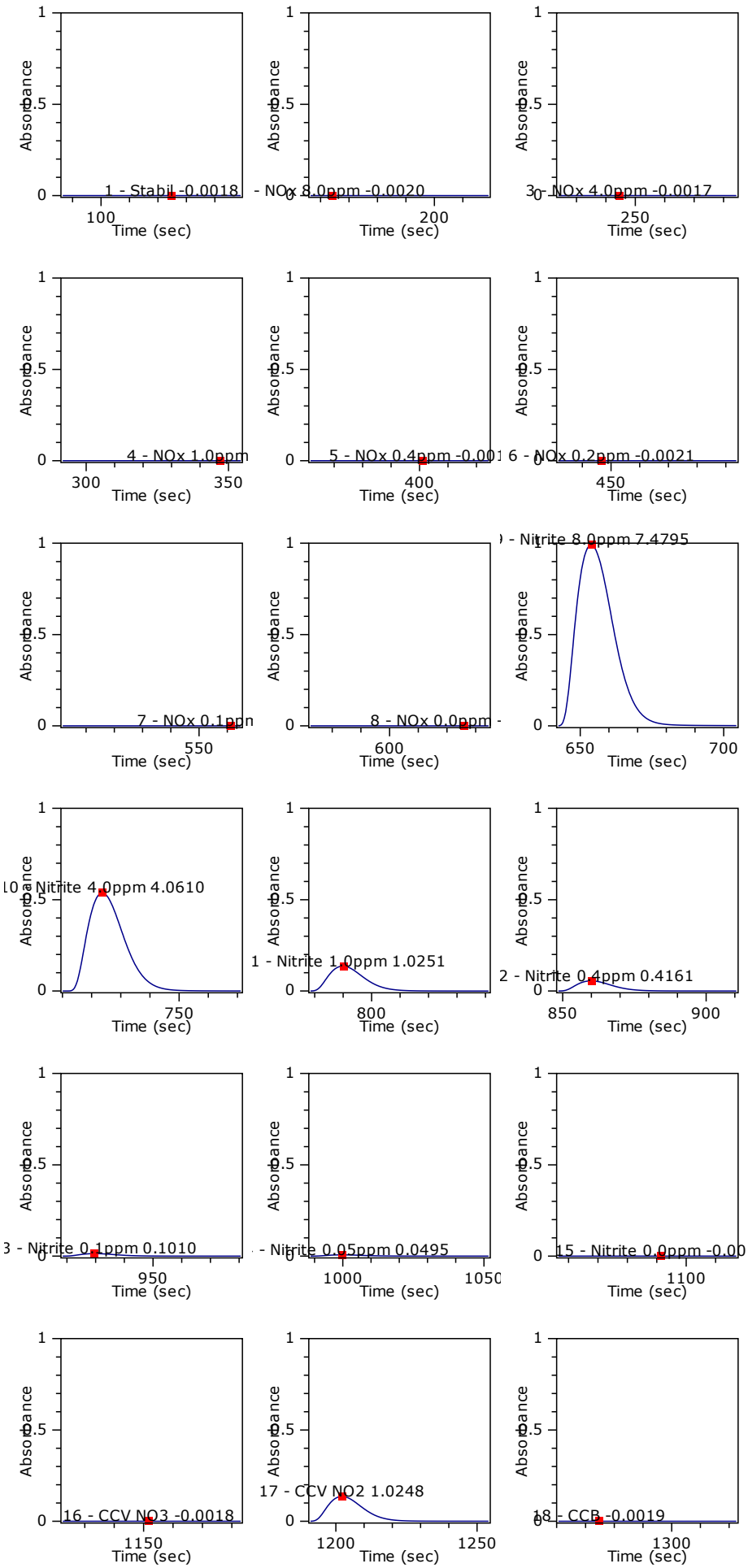


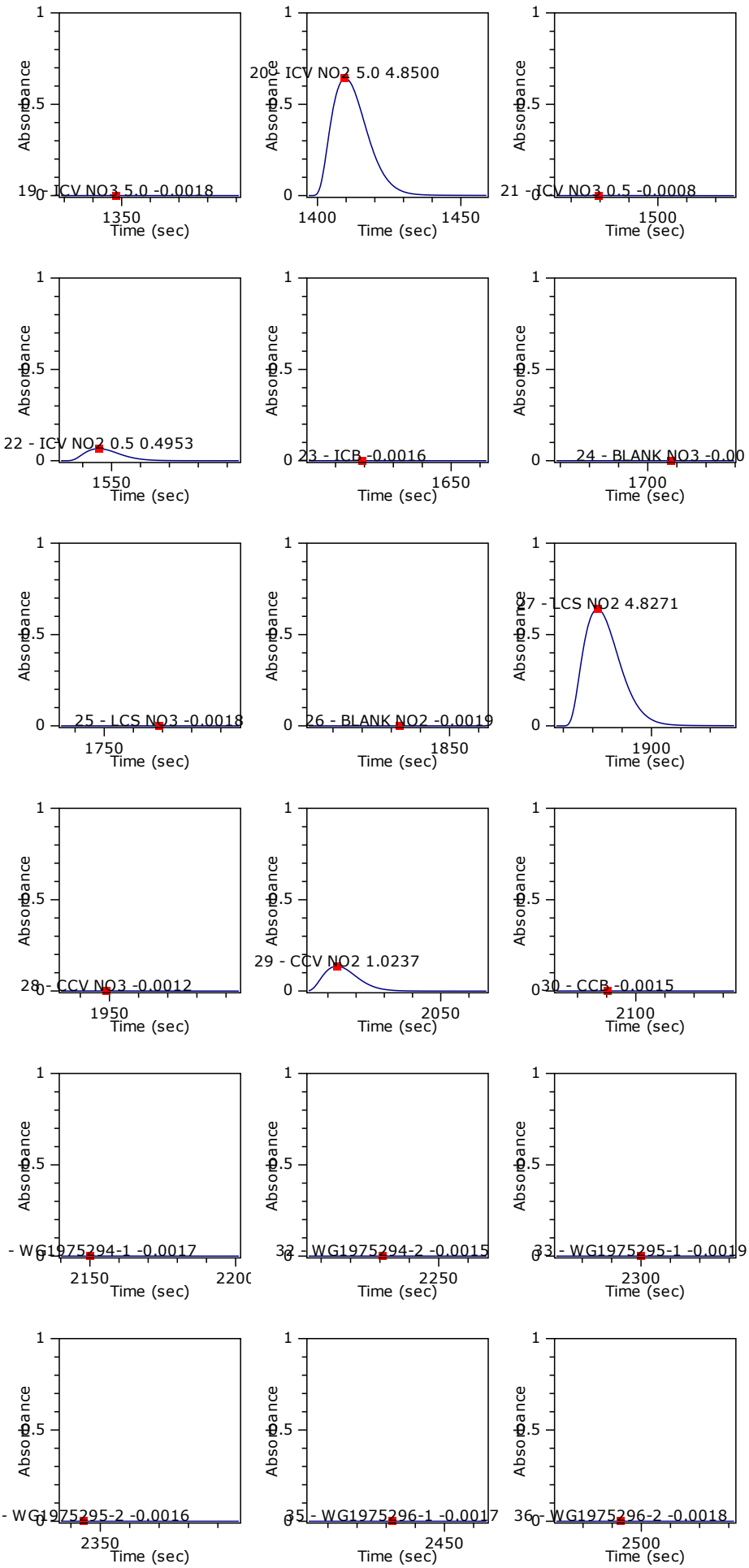

16 - CCV NO3 1.0091
17 - CCV NO2 1.0159
18 - CCB 0.0014
19 - ICV NO3 5.0 4.8868
20 - ICV NO2 5.0 4.8669
21 - ICV NO3 0.5 0.4791
22 - ICV NO2 0.5 0.4879
23 - ICB 0.0008
24 - BLANK NO3 0.0015
25 - LCS NO3 4.8756
BLANK NO2 -0.0007
27 - LCS NO2 4.8278
28 - CCV NO3 0.9993
29 - CCV NO2 1.0205
30 - CCB 0.0014
31 - WG1975294-1 0.002
32 - WG1975294-2 4.8927
G1975295-1 -0.0010
Absorbance
Time (sec)

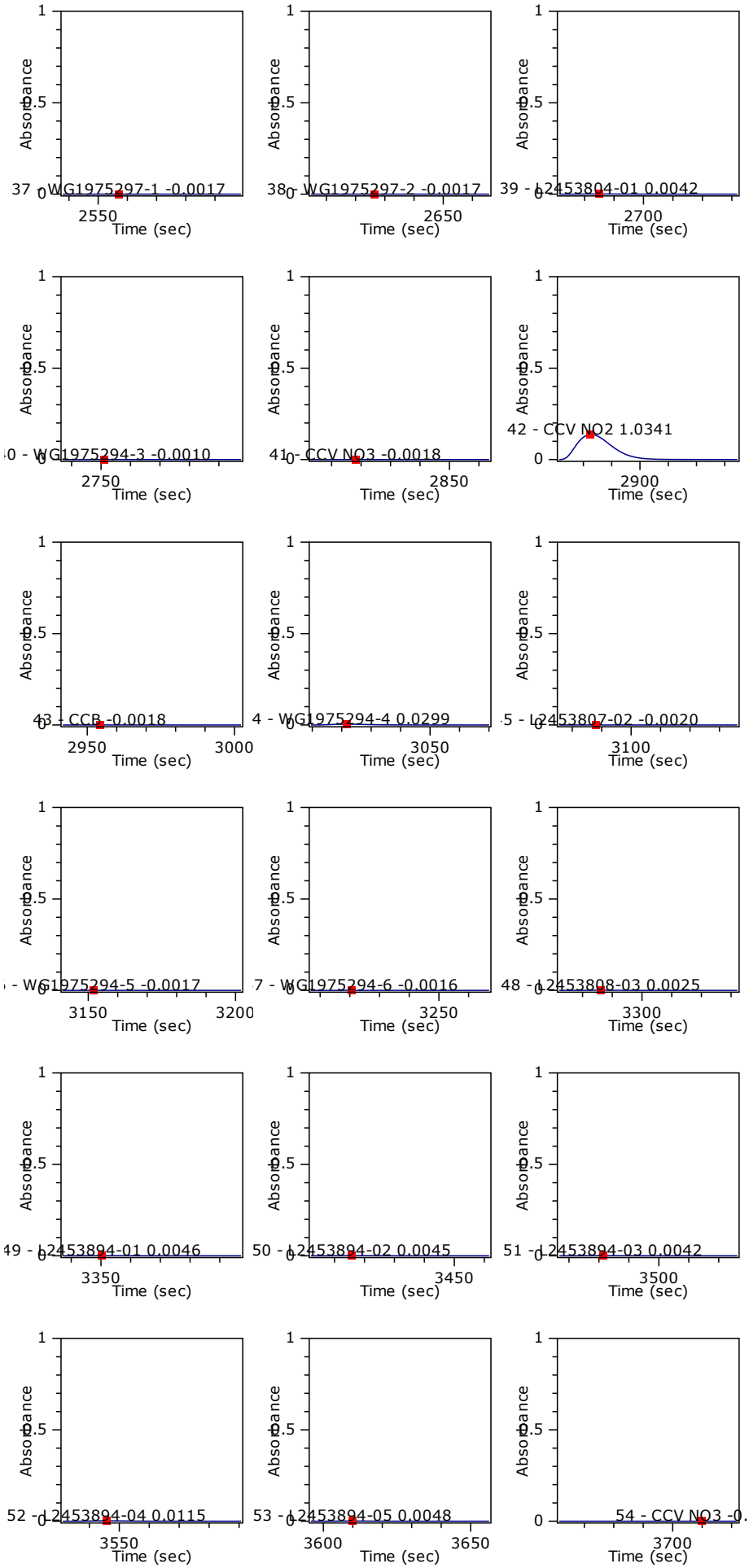

34 - WG1975295-2 4.9144
/G1975296-1 0.0000
36 - WG1975296-2 4.9141
/G1975297-1 0.0002
38 - WG1975297-2 4.9110
39 - L2453804-01 1.2010
40 - WG1975294-3 1.1985
41 - CCV NO3 1.0182
42 - CCV NO2 1.0276
43 - CCB 0.0014
44 - WG1975294-4 5.1828
45 - L2453807-02 2.1690
46 - WG1975294-5 2.1730
47 - WG1975294-6 6.1028
48 - L2453808-03 0.0092
49 - L2453894-01 0.0458
50 - L2453894-02 5.8512
51 - L2453894-03 2.3506
Absorbance
Time (sec)

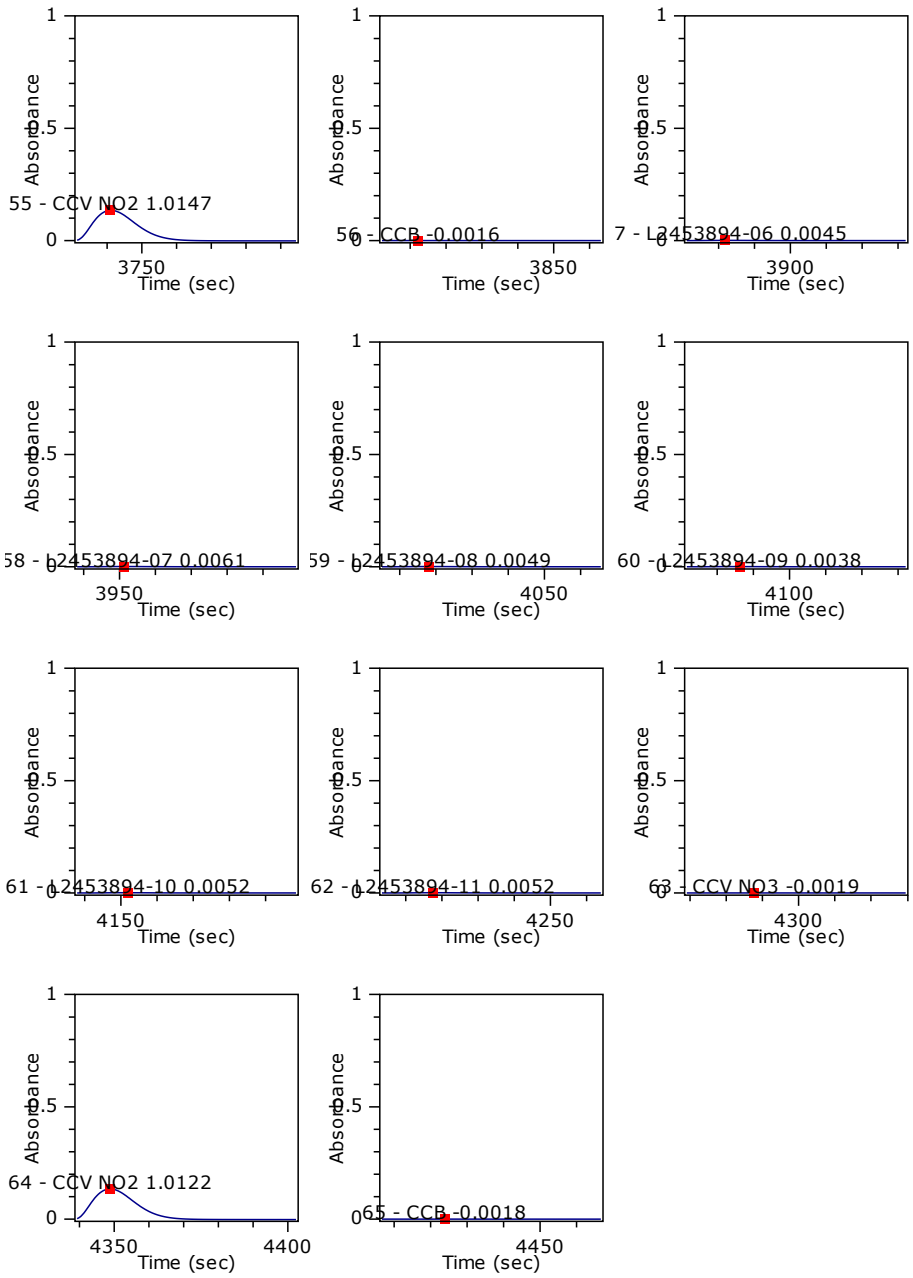


Channel: 2-NO2


1 - Stabil -0.0018
- NOx 8.0ppm -0.0020
3 - NOx 4.0ppm -0.0017
4 - NOx 1.0ppm
5 - NOx 0.4ppm -0.001
6 - NOx 0.2ppm -0.0021
) - Nitrite 8.0ppm 7.4795
7 - NOx 0.1ppm
8 - NOx 0.0ppm -
10 Nitrite 4.0ppm 4.0610
1 - Nitrite 1.0ppm 1.0251
2 - Nitrite 0.4ppm 0.4161
3 - Nitrite 0.1ppm 0.1010
- Nitrite 0.05ppm 0.0495
15 - Nitrite 0.0ppm -0.00
16 - CCV NO3 -0.0018
17 - CCV NO2 1.0248
18 - CCB -0.0019
Absorbance
Time (sec)


19 - ICV NO3 5.0 -0.0018
20 - ICV NO2 5.0 4.8500
21 - ICV NO3 0.5 -0.0008
22 - ICV NO2 0.5 0.4953
23 - ICB -0.0016
24 - BLANK NO3 -0.00
25 - LCS NO3 -0.0018
26 - BLANK NO2 -0.0019
27 - LCS NO2 4.8271
28 - CCV NO3 -0.0012
29 - CCV NO2 1.0237
30 - CCB -0.0015
- WG1975294-1 -0.0017
32 - WG1975294-2 -0.0015
33 - WG1975295-1 -0.0019
- WG1975295-2 -0.0016
35 - WG1975296-1 -0.0017
36 - WG1975296-2 -0.0018
Absorbance
Time (sec)


37 - WG1975297-1 -0.0017
38 - WG1975297-2 -0.0017
39 - L2453804-01 0.0042
40 - WG1975294-3 -0.0010
41 - CCV NO3 -0.0018
42 - CCV NO2 1.0341
43 - CCB -0.0018
44 - WG1975294-4 0.0299
45 - L2453807-02 -0.0020
47 - WG1975294-5 -0.0017
47 - WG1975294-6 -0.0016
48 - L2453808-03 0.0025
49 - L2453894-01 0.0046
50 - L2453894-02 0.0045
51 - L2453894-03 0.0042
52 - L2453894-04 0.0115
53 - L2453894-05 0.0048
54 - CCV NO3 -0.
Absorbance
Time (sec)



Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 35.4
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 3
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2024-09-24T03:13:52

Method
------------
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.
```

```
FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
   Delay (sec) 1
   Next Sample
   Autosampler Probe Force Down

   Spectrometer Reference Scan
   Spectrometer Absorbance Scanning

   Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

   FIAlab Injection Valve Sample Load

   Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.

   FIAlab1 Injection Valve Sample Inject
   Autosampler Probe Up
   Delay (sec) 5
   Autosampler Position (#) Rinse
   FIAlab2 Injection Valve Sample Inject

   Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

   Autosampler Probe Up

   Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

   Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

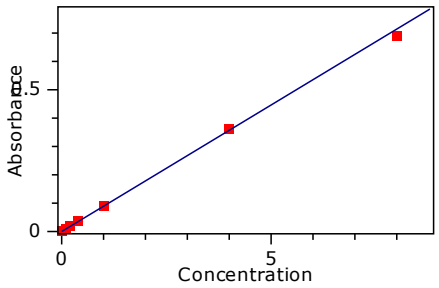
Graphical report generated by FIAsoft v3.1.10
Report generated on 2024-09-24 08:32:10
Data file (.dat): C:\FIAlab\Autosave Data\2024-09-24-083028.dat

Dataset Notes:

Analyst	

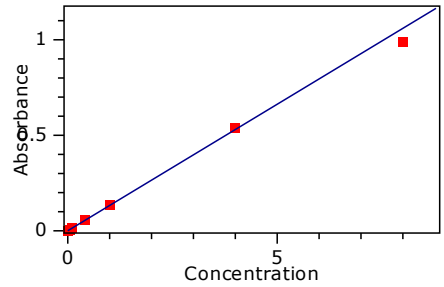
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: -0.00010
B: 0.08927
R^2: 0.99950
RSE(%): 2.27501
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	NOx 8.0ppm	0.68930	8.00000	7.72280	3.46	N/A
10002	NOx 4.0ppm	0.36120	4.00000	4.04740	1.19	N/A
10003	NOx 1.0ppm	0.08960	1.00000	1.00470	0.47	N/A
10004	NOx 0.4ppm	0.03640	0.40000	0.40850	2.12	N/A
10005	NOx 0.2ppm	0.01800	0.20000	0.20240	1.18	N/A
10006	NOx 0.1ppm	0.00870	0.10000	0.09890	1.08	N/A
10007	NOx 0.0ppm	0.00010	0.00000	0.00240	NA	N/A



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00031
B: 0.13245
R^2: 0.99841
RSE(%): 4.16024
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	Nitrite 8.0ppm	0.99100	8.00000	7.47950	6.51	N/A
10002	Nitrite 4.0ppm	0.53820	4.00000	4.06100	1.53	N/A
10003	Nitrite 1.0ppm	0.13610	1.00000	1.02510	2.51	N/A
10004	Nitrite 0.4ppm	0.05540	0.40000	0.41610	4.02	N/A
10005	Nitrite 0.1ppm	0.01370	0.10000	0.10100	0.98	N/A
10006	Nitrite 0.05ppm	0.00690	0.05000	0.04950	1.08	N/A
10007	Nitrite 0.0ppm	0.00010	0.00000	-0.00160	NA	N/A

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	0.0024		2024-09-24T06:18:24
CCV NO3	2	QC	1	0.0884	1	1	1	0.9917		2024-09-24T06:19:42
CCV NO2	3	QC	?	0.0910	1	1	1	1.0210		2024-09-24T06:20:47
CCB	4	QC	0	0.0000	1	1	1	0.0011		2024-09-24T06:21:31

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2453904-01	5	Unknown	?	0.0013	1	1	1	0.0160		2024-09-24T06:23:04
L2454505-02	6	Unknown	?	0.3695	1	1	1	4.1408		2024-09-24T06:24:11
L2454580-01	7	Unknown	?	0.0014	1	1	1	0.0172		2024-09-24T06:25:16
L2454580-02	8	Unknown	?	0.6420	1	1	1	7.1932		2024-09-24T06:26:22
L2454272-01	9	Unknown	?	0.0043	1	1	1	0.0493		2024-09-24T06:27:28
WG1975295-3	10	Unknown	?	0.0055	1	1	1	0.0623		2024-09-24T06:28:32
WG1975295-4	11	Unknown	?	0.3633	1	1	1	4.0708		2024-09-24T06:29:37
L2454272-02	12	Unknown	?	-0.0001	1	1	1	-0.0005		2024-09-24T06:30:13
L2454272-04	13	Unknown	?	0.0010	1	1	1	0.0119		2024-09-24T06:31:46
L2454272-05	14	Unknown	?	0.0015	1	1	1	0.0178		2024-09-24T06:32:52
CCV NO3	15	QC	1	0.0882	1	1	1	0.9897		2024-09-24T06:33:58
CCV NO2	16	QC	?	0.0892	1	1	1	1.0003		2024-09-24T06:35:03
CCB	17	QC	0	0.0000	1	1	1	0.0008		2024-09-24T06:36:10
L2454272-06	18	Unknown	?	0.0021	1	1	1	0.0246		2024-09-24T06:37:21
L2454272-07	19	Unknown	?	0.0013	1	1	1	0.0157		2024-09-24T06:38:28
L2454272-08	20	Unknown	?	0.0784	1	1	1	0.8793		2024-09-24T06:39:35
L2454272-09	21	Unknown	?	0.0141	1	1	1	0.1594		2024-09-24T06:40:42
L2454272-10	22	Unknown	?	0.0012	1	1	1	0.0142		2024-09-24T06:41:48
L2452183-04	23	Unknown	?	0.0029	1	1	1	0.0339		2024-09-24T06:42:55
L2452183-05	24	Unknown	?	0.0042	1	1	1	0.0485		2024-09-24T06:44:00
L2452183-06	25	Unknown	?	0.0012	1	1	1	0.0144		2024-09-24T06:45:06
L2453498-01	26	Unknown	?	0.0667	1	1	1	0.7478		2024-09-24T06:46:11
L2453498-02	27	Unknown	?	0.0622	1	1	1	0.6982		2024-09-24T06:47:16
CCV NO3	28	QC	1	0.0869	1	1	1	0.9748		2024-09-24T06:48:21
CCV NO2	29	QC	?	0.0884	1	1	1	0.9920		2024-09-24T06:49:26
CCB	30	QC	0	0.0000	1	1	1	0.0010		2024-09-24T06:50:10
L2453498-03	31	Unknown	?	0.0612	1	1	1	0.6871		2024-09-24T06:51:42
L2453498-04	32	Unknown	?	0.0579	1	1	1	0.6496		2024-09-24T06:52:48
L2453498-05	33	Unknown	?	0.0527	1	1	1	0.5911		2024-09-24T06:53:52
L2453498-06	34	Unknown	?	0.0432	1	1	1	0.4850		2024-09-24T06:54:57
L2453498-07	35	Unknown	?	0.0418	1	1	1	0.4691		2024-09-24T06:56:02
L2453657-01	36	Unknown	?	1.2958	1	1	1	14.5175	OVR	2024-09-24T06:57:43
L2453720-01	37	Unknown	?	-0.0026	1	1	1	-0.0276		2024-09-24T06:57:50

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2453720-02	38	Unknown	?	0.2280	1	1	1	2.5557		2024-09-24T06:59:23
WG1975296-3	39	Unknown	?	0.3409	1	1	1	3.8200		2024-09-24T07:00:30
WG1975296-4	40	Unknown	?	0.6750	1	1	1	7.5623		2024-09-24T07:01:36
CCV NO3	41	QC	1	0.0885	1	1	1	0.9921		2024-09-24T07:02:42
CCV NO2	42	QC	?	0.0913	1	1	1	1.0237		2024-09-24T07:03:47
CCB	43	QC	0	0.0006	1	1	1	0.0077		2024-09-24T07:05:03
L2453720-03	44	Unknown	?	0.1088	1	1	1	1.2198		2024-09-24T07:06:07
L2453720-04	45	Unknown	?	0.0012	1	1	1	0.0148		2024-09-24T07:07:15
L2453720-06	46	Unknown	?	0.5916	1	1	1	6.6279		2024-09-24T07:08:20
L2453720-07	47	Unknown	?	0.0783	1	1	1	0.8780		2024-09-24T07:09:26
L2453720-08	48	Unknown	?	0.1912	1	1	1	2.1435		2024-09-24T07:10:31
L2453720-09	49	Unknown	?	0.4454	1	1	1	4.9911		2024-09-24T07:11:36
L2454352-01	50	Unknown	?	0.3072	1	1	1	3.4428		2024-09-24T07:12:41
CCV NO3	51	QC	1	0.0894	1	1	1	1.0023		2024-09-24T07:13:46
CCV NO2	52	QC	?	0.0905	1	1	1	1.0155		2024-09-24T07:14:51
CCB	53	QC	0	0.0002	1	1	1	0.0035		2024-09-24T07:16:08

Channel: 2-NO2

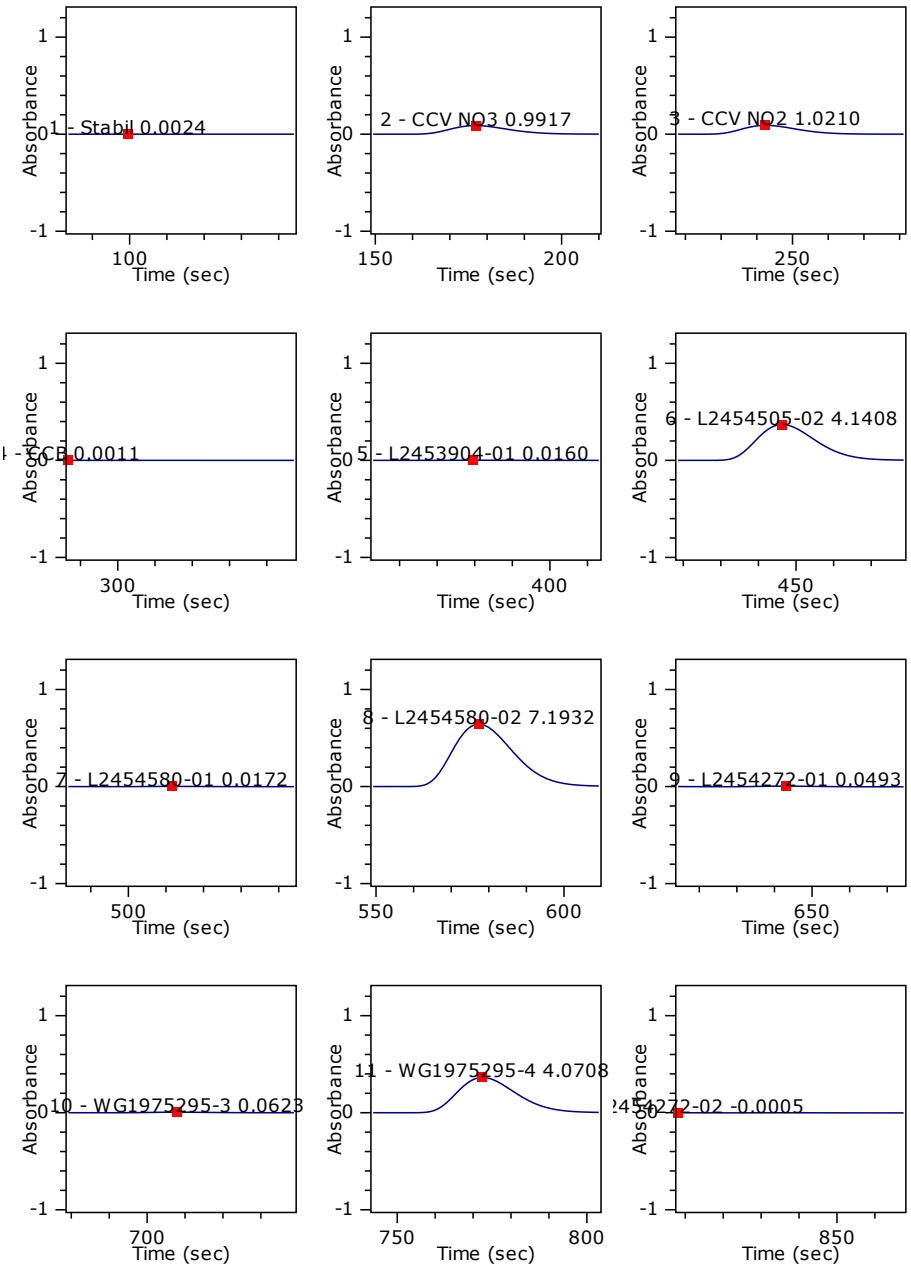
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0015		2024-09-24T06:18:15
CCV NO3	2	QC	?	0.0000	1	1	1	-0.0020		2024-09-24T06:19:31
CCV NO2	3	QC	1	0.1378	1	1	1	1.0383		2024-09-24T06:20:33
CCB	4	QC	0	0.0000	1	1	1	-0.0021		2024-09-24T06:21:51
L2453904-01	5	Unknown	?	0.0011	1	1	1	0.0062		2024-09-24T06:22:51
L2454505-02	6	Unknown	?	0.0040	1	1	1	0.0280		2024-09-24T06:23:57
L2454580-01	7	Unknown	?	0.0025	1	1	1	0.0168		2024-09-24T06:25:02
L2454580-02	8	Unknown	?	0.1305	1	1	1	0.9829		2024-09-24T06:26:08
L2454272-01	9	Unknown	?	0.0008	1	1	1	0.0035		2024-09-24T06:27:13
WG1975295-3	10	Unknown	?	0.0002	1	1	1	-0.0011		2024-09-24T06:28:17
WG1975295-4	11	Unknown	?	0.0002	1	1	1	-0.0008		2024-09-24T06:29:24
L2454272-02	12	Unknown	?	0.0007	1	1	1	0.0030		2024-09-24T06:30:26
L2454272-04	13	Unknown	?	0.0008	1	1	1	0.0036		2024-09-24T06:31:32
L2454272-05	14	Unknown	?	0.0008	1	1	1	0.0036		2024-09-24T06:32:38
CCV NO3	15	QC	?	0.0000	1	1	1	-0.0020		2024-09-

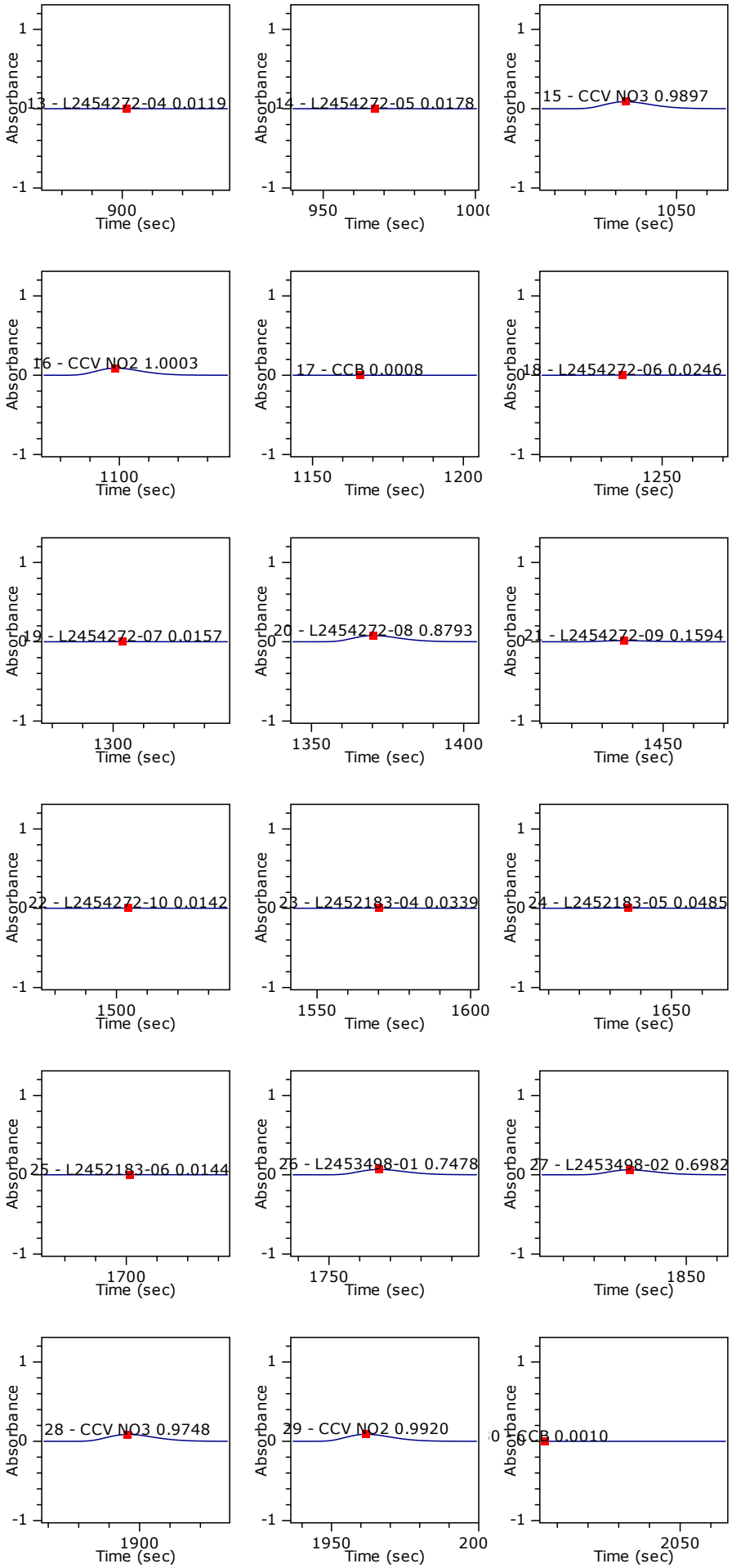
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
										24T06:33:45
CCV NO2	16	QC	1	0.1375	1	1	1	1.0354		2024-09-24T06:34:50
CCB	17	QC	0	0.0001	1	1	1	-0.0019		2024-09-24T06:35:59
L2454272-06	18	Unknown	?	0.0008	1	1	1	0.0036		2024-09-24T06:37:10
L2454272-07	19	Unknown	?	0.0007	1	1	1	0.0029		2024-09-24T06:38:15
L2454272-08	20	Unknown	?	0.0001	1	1	1	-0.0018		2024-09-24T06:39:19
L2454272-09	21	Unknown	?	0.0001	1	1	1	-0.0018		2024-09-24T06:40:56
L2454272-10	22	Unknown	?	0.0008	1	1	1	0.0039		2024-09-24T06:41:35
L2452183-04	23	Unknown	?	0.0030	1	1	1	0.0204		2024-09-24T06:42:41
L2452183-05	24	Unknown	?	0.0043	1	1	1	0.0298		2024-09-24T06:43:46
L2452183-06	25	Unknown	?	0.0014	1	1	1	0.0083		2024-09-24T06:44:52
L2453498-01	26	Unknown	?	0.0009	1	1	1	0.0045		2024-09-24T06:45:57
L2453498-02	27	Unknown	?	0.0009	1	1	1	0.0041		2024-09-24T06:47:03
CCV NO3	28	QC	?	0.0001	1	1	1	-0.0018		2024-09-24T06:48:05
CCV NO2	29	QC	1	0.1373	1	1	1	1.0345		2024-09-24T06:49:13
CCB	30	QC	0	0.0000	1	1	1	-0.0020		2024-09-24T06:50:29
L2453498-03	31	Unknown	?	0.0008	1	1	1	0.0039		2024-09-24T06:51:28
L2453498-04	32	Unknown	?	0.0008	1	1	1	0.0039		2024-09-24T06:52:32
L2453498-05	33	Unknown	?	0.0008	1	1	1	0.0037		2024-09-24T06:53:38
L2453498-06	34	Unknown	?	0.0008	1	1	1	0.0036		2024-09-24T06:54:42
L2453498-07	35	Unknown	?	0.0008	1	1	1	0.0035		2024-09-24T06:55:50
L2453657-01	36	Unknown	?	1.3623	1	1	1	10.2823	OVR	2024-09-24T06:56:57
L2453720-01	37	Unknown	?	0.0010	1	1	1	0.0049		2024-09-24T06:58:04
L2453720-02	38	Unknown	?	0.0009	1	1	1	0.0044		2024-09-24T06:59:10
WG1975296-3	39	Unknown	?	0.0002	1	1	1	-0.0011		2024-09-24T07:00:15
WG1975296-4	40	Unknown	?	0.0002	1	1	1	-0.0008		2024-09-24T07:01:22
CCV NO3	41	QC	?	0.0001	1	1	1	-0.0015		2024-09-24T07:02:40
CCV NO2	42	QC	1	0.1368	1	1	1	1.0307		2024-09-24T07:03:34
CCB	43	QC	0	0.0002	1	1	1	-0.0006		2024-09-24T07:04:58
L2453720-03	44	Unknown	?	0.0008	1	1	1	0.0037		2024-09-24T07:05:54
L2453720-04	45	Unknown	?	0.0009	1	1	1	0.0043		2024-09-24T07:07:01
L2453720-06	46	Unknown	?	0.0009	1	1	1	0.0044		2024-09-24T07:08:07
L2453720-07	47	Unknown	?	0.0009	1	1	1	0.0042		2024-09-24T07:09:12

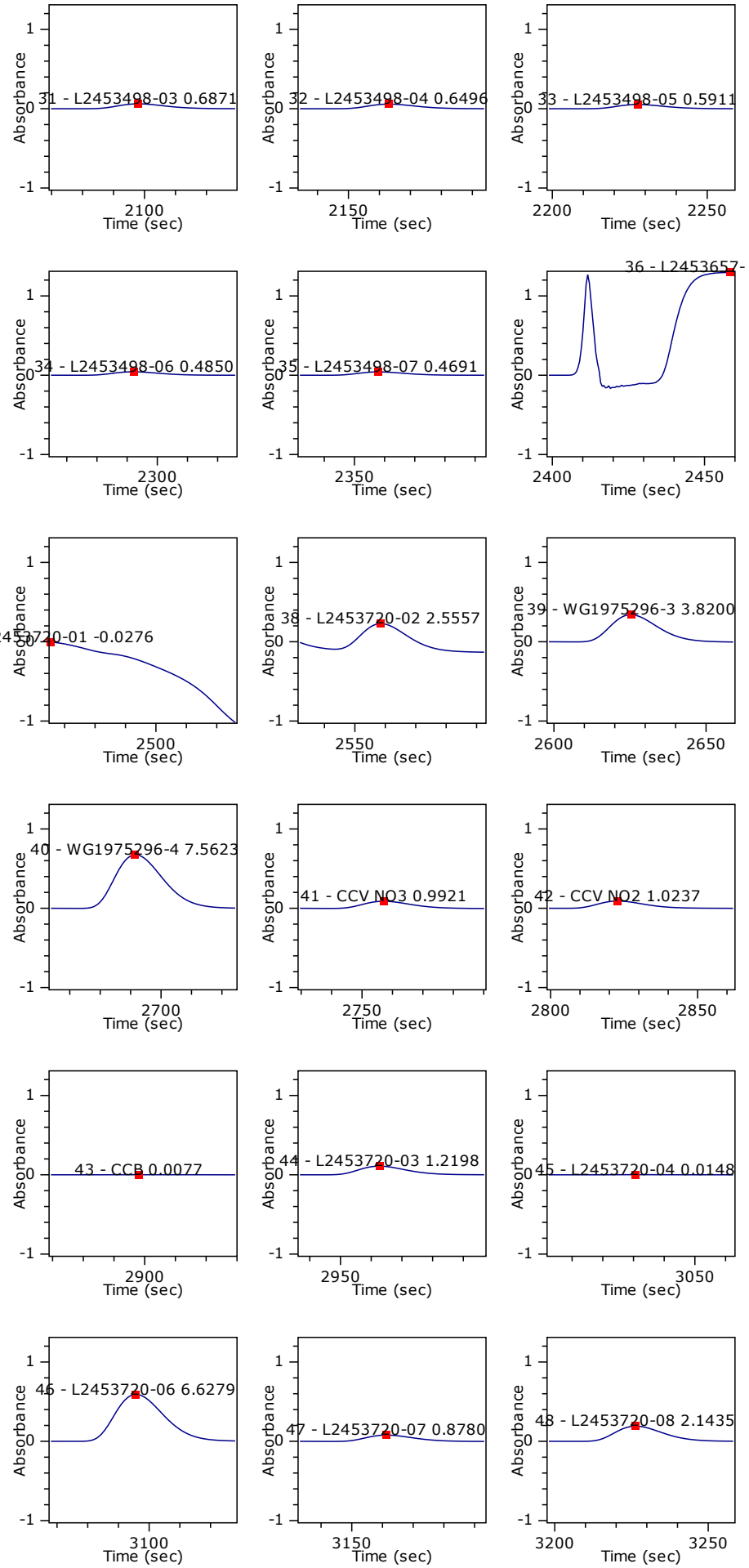
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2453720-08	48	Unknown	?	0.0009	1	1	1	0.0043		2024-09-24T07:10:17
L2453720-09	49	Unknown	?	0.0007	1	1	1	0.0030		2024-09-24T07:11:22
L2454352-01	50	Unknown	?	0.0007	1	1	1	0.0033		2024-09-24T07:12:27
CCV NO3	51	QC	?	0.0000	1	1	1	-0.0023		2024-09-24T07:13:36
CCV NO2	52	QC	1	0.1374	1	1	1	1.0348		2024-09-24T07:14:38
CCB	53	QC	0	0.0001	1	1	1	-0.0018		2024-09-24T07:15:51

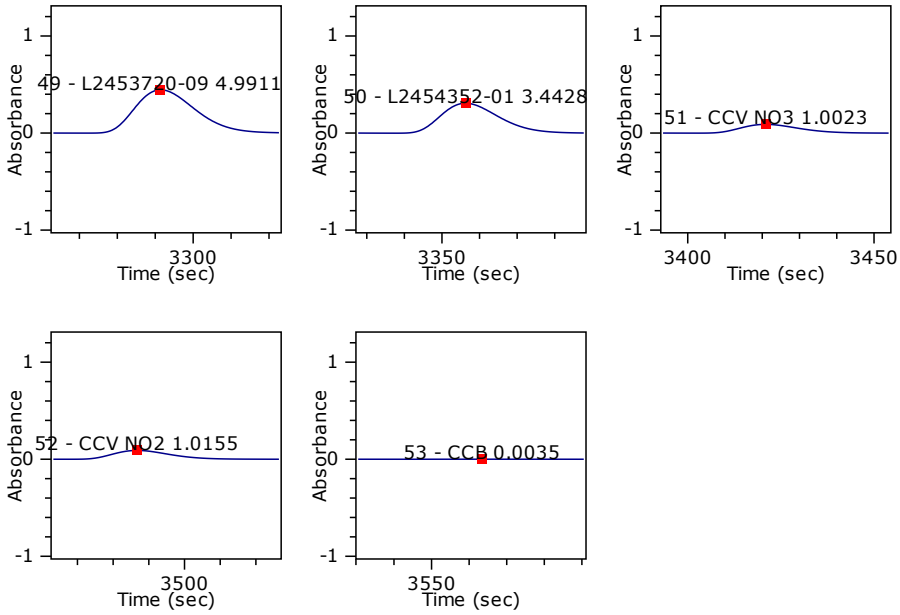
Peaks:

Channel: 1-NOx

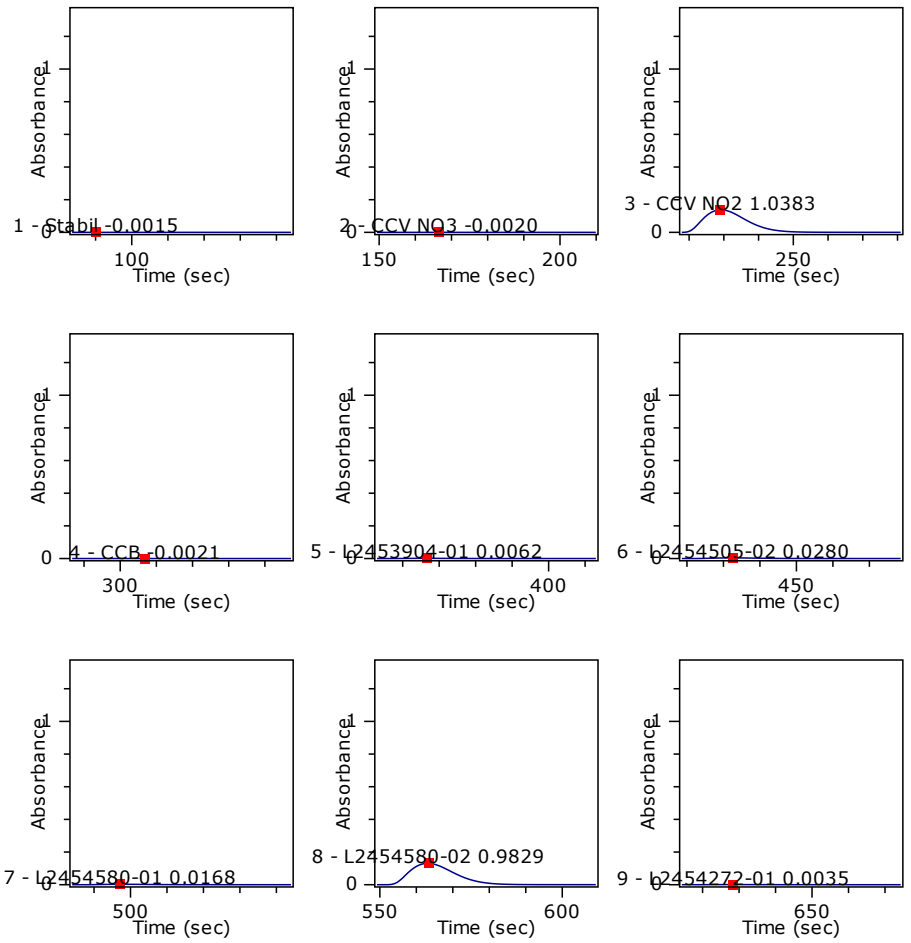


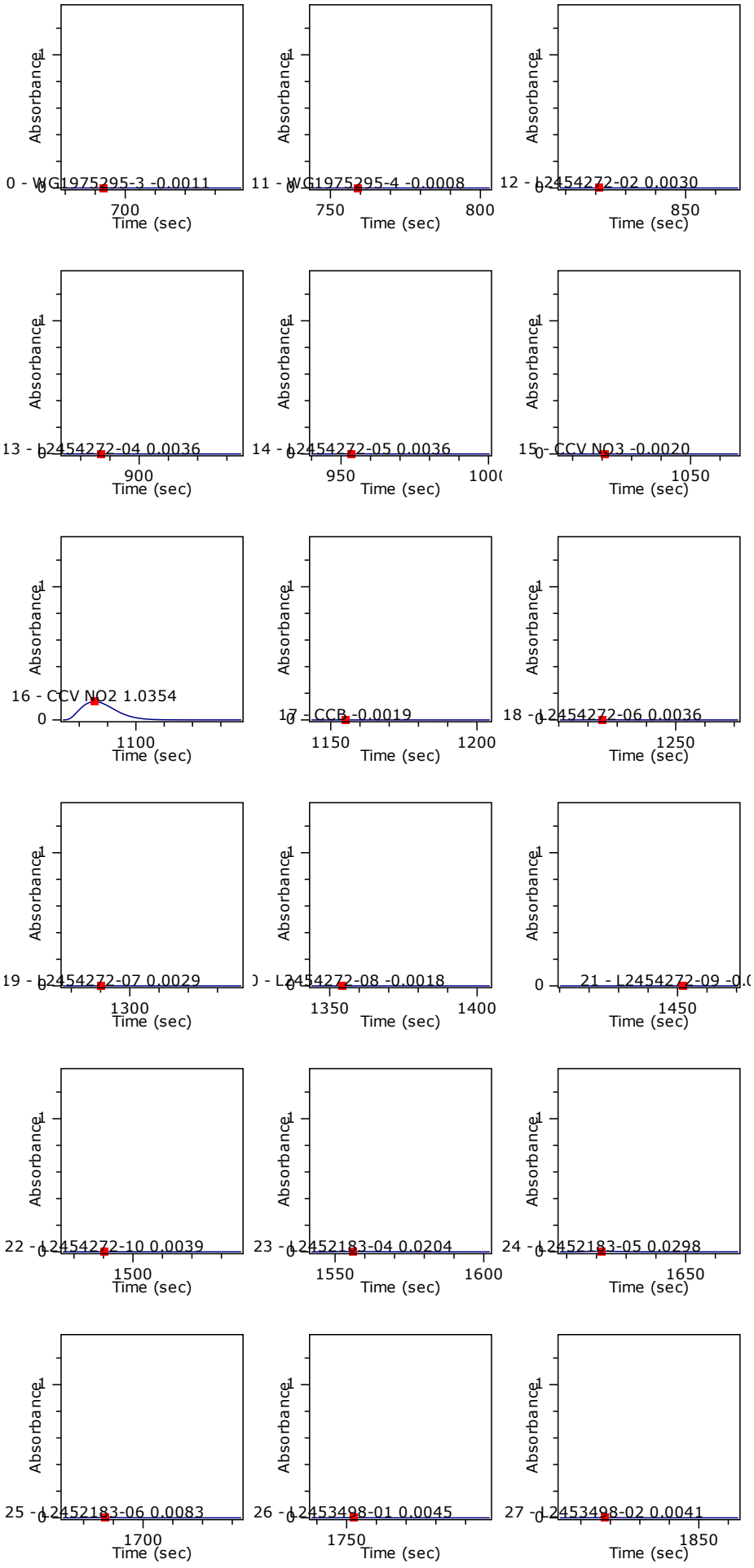

13 - L2454272-04 0.0119
14 - L2454272-05 0.0178
15 - CCV NO3 0.9897
16 - CCV NO2 1.0003
17 - CCB 0.0008
18 - L2454272-06 0.0246
19 - L2454272-07 0.0157
20 - L2454272-08 0.8793
21 - L2454272-09 0.1594
22 - L2454272-10 0.0142
23 - L2452183-04 0.0339
24 - L2452183-05 0.0485
25 - L2452183-06 0.0144
26 - L2453498-01 0.7478
27 - L2453498-02 0.6982
28 - CCV NO3 0.9748
29 - CCV NO2 0.9920
CCB 0.0010
Absorbance
Time (sec)

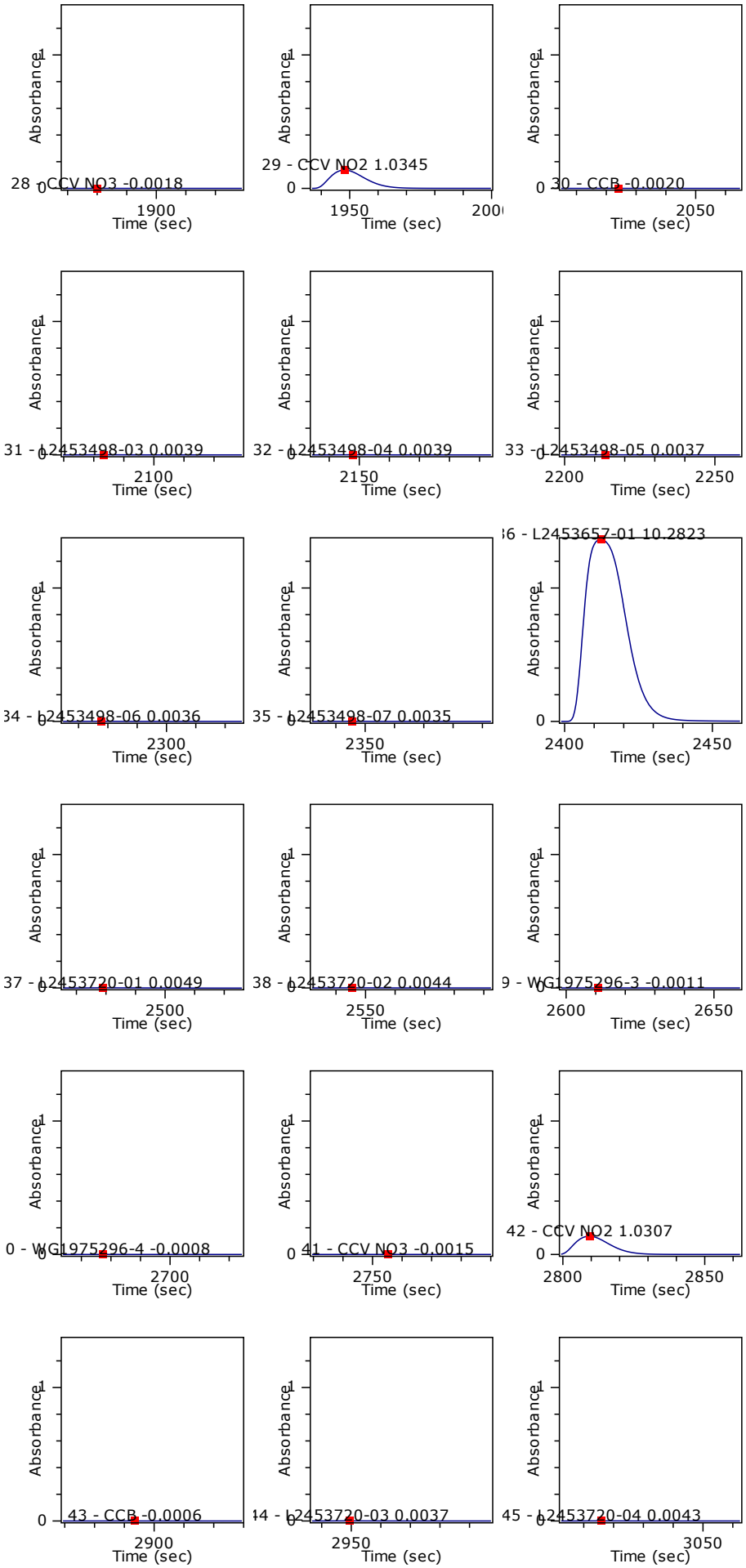

31 - L2453498-03 0.6871
32 - L2453498-04 0.6496
33 - L2453498-05 0.5911
34 - L2453498-06 0.4850
35 - L2453498-07 0.4691
36 - L2453657-
2453720-01 -0.0276
38 - L2453720-02 2.5557
39 - WG1975296-3 3.8200
40 - WG1975296-4 7.5623
41 - CCV NO3 0.9921
42 - CCV NO2 1.0237
43 - CCB 0.0077
44 - L2453720-03 1.2198
45 - L2453720-04 0.0148
46 - L2453720-06 6.6279
47 - L2453720-07 0.8780
48 - L2453720-08 2.1435
Absorbance
Time (sec)

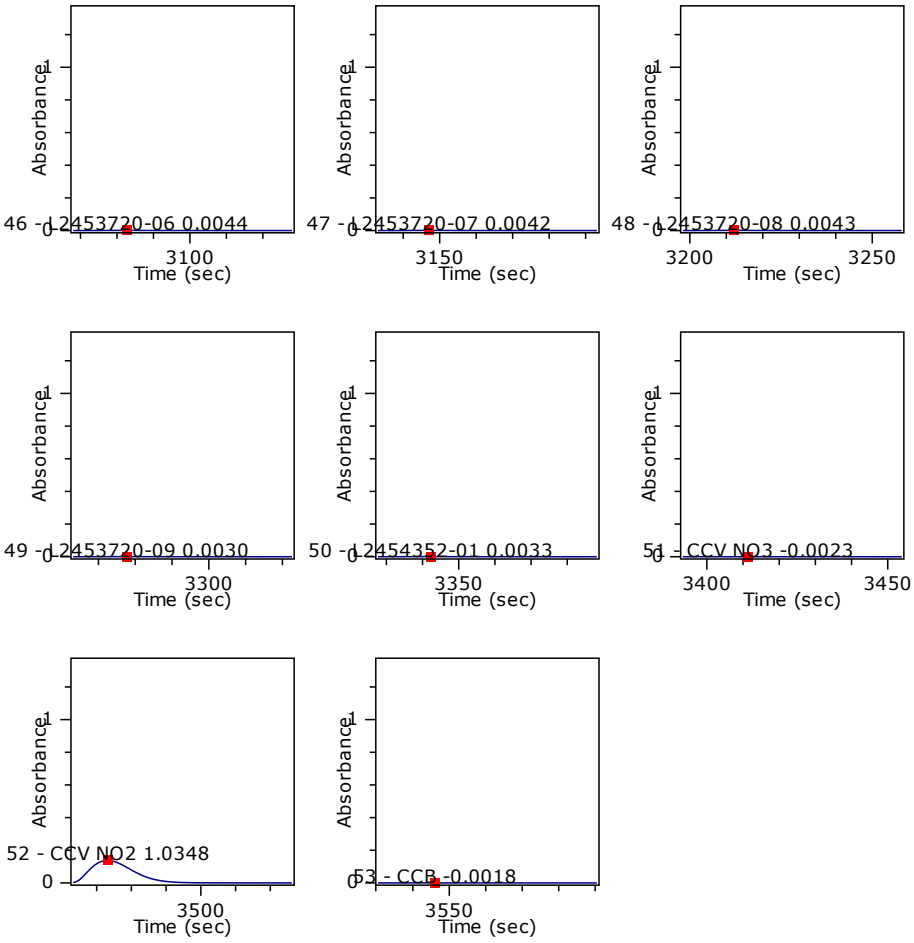


Channel: 2-NO2




0 - WG1975295-3 -0.0011
11 - WG1975295-4 -0.0008
12 - L2454272-02 0.0030
13 - L2454272-04 0.0036
14 - L2454272-05 0.0036
15 - CCV NO3 -0.0020
16 - CCV NO2 1.0354
17 - CCB -0.0019
18 - L2454272-06 0.0036
19 - L2454272-07 0.0029
) - L2454272-08 -0.0018
21 - L2454272-09 -0.(
22 - L2454272-10 0.0039
23 - L2452183-04 0.0204
24 - L2452183-05 0.0298
25 - L2452183-06 0.0083
26 - L2453498-01 0.0045
27 - L2453498-02 0.0041
Absorbance
Time (sec)


28 - CCV NO3 -0.0018
29 - CCV NO2 1.0345
30 - CCB -0.0020
31 - L2453498-03 0.0039
32 - L2453498-04 0.0039
33 - L2453498-05 0.0037
34 - L2453498-06 0.0036
35 - L2453498-07 0.0035
36 - L2453657-01 10.2823
37 - L2453720-01 0.0049
38 - L2453720-02 0.0044
39 - WG1975296-3 -0.0011
40 - WG1975296-4 -0.0008
41 - CCV NO3 -0.0015
42 - CCV NO2 1.0307
43 - CCB -0.0006
44 - L2453720-03 0.0037
45 - L2453720-04 0.0043
Absorbance
Time (sec)



Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False

Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 35.4
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 3
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2024-09-24T06:16:45

Method
------------
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.

FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
```

```
    Delay (sec) 1
    Next Sample
    Autosampler Probe Force Down

    Spectrometer Reference Scan
    Spectrometer Absorbance Scanning

    Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

    FIAlab Injection Valve Sample Load

    Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.

    FIAlab1 Injection Valve Sample Inject
    Autosampler Probe Up
    Delay (sec) 5
    Autosampler Position (#) Rinse
    FIAlab2 Injection Valve Sample Inject

    Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

    Autosampler Probe Up

    Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

    Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

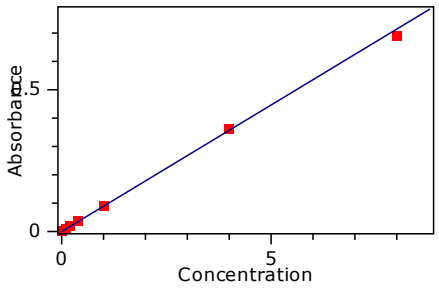
Graphical report generated by FIAsoft v3.1.10
Report generated on 2024-09-24 10:39:06
Data file (.dat): C:\FIAlab\Autosave Data\2024-09-24-103842.dat

Dataset Notes:

Analyst	

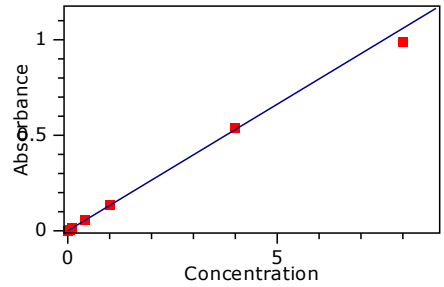
Dataset Notes Table Location:

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: -0.00010
B: 0.08927
R^2: 0.99950
RSE(%): 2.27501
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	NOx 8.0ppm	0.68930	8.00000	7.72280	3.46	N/A
10002	NOx 4.0ppm	0.36120	4.00000	4.04740	1.19	N/A
10003	NOx 1.0ppm	0.08960	1.00000	1.00470	0.47	N/A
10004	NOx 0.4ppm	0.03640	0.40000	0.40850	2.12	N/A
10005	NOx 0.2ppm	0.01800	0.20000	0.20240	1.18	N/A
10006	NOx 0.1ppm	0.00870	0.10000	0.09890	1.08	N/A
10007	NOx 0.0ppm	0.00010	0.00000	0.00240	NA	N/A



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00031
B: 0.13245
R^2: 0.99841
RSE(%): 4.16024
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	Nitrite 8.0ppm	0.99100	8.00000	7.47950	6.51	N/A
10002	Nitrite 4.0ppm	0.53820	4.00000	4.06100	1.53	N/A
10003	Nitrite 1.0ppm	0.13610	1.00000	1.02510	2.51	N/A
10004	Nitrite 0.4ppm	0.05540	0.40000	0.41610	4.02	N/A
10005	Nitrite 0.1ppm	0.01370	0.10000	0.10100	0.98	N/A
10006	Nitrite 0.05ppm	0.00690	0.05000	0.04950	1.08	N/A
10007	Nitrite 0.0ppm	0.00010	0.00000	-0.00160	NA	N/A

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0002	1	1	1	0.0029		2024-09-24T09:18:23
CCV NO3	2	QC	1	0.0870	1	1	1	0.9758		2024-09-24T09:19:32
CCV NO2	3	QC	?	0.0882	1	1	1	0.9897		2024-09-24T09:20:39
CCB	4	QC	0	0.0000	1	1	1	0.0015		2024-09-24T09:21:47

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2453720-01	5	Unknown	?	0.1062	1	1	1	1.1910		2024-09-24T09:22:56
L2453720-02	6	Unknown	?	0.3351	1	1	1	3.7552		2024-09-24T09:24:03
WG1975296-3	7	Unknown	?	0.3358	1	1	1	3.7625		2024-09-24T09:25:10
L2454059-01	8	Unknown	?	0.4496	1	1	1	5.0372		2024-09-24T09:26:15
WG1975297-3	9	Unknown	?	0.4514	1	1	1	5.0582		2024-09-24T09:27:20
WG1975297-4; 2 UP TO 10	10	Unknown	?	0.1540	5	1	1	8.6333		2024-09-24T09:28:27
L2454059-02	11	Unknown	?	0.1981	1	1	1	2.2199		2024-09-24T09:29:35
L2454142-01	12	Unknown	?	0.0022	1	1	1	0.0256		2024-09-24T09:30:42
L2454142-02	13	Unknown	?	0.4131	1	1	1	4.6286		2024-09-24T09:31:49
L2454143-01	14	Unknown	?	0.0021	1	1	1	0.0245		2024-09-24T09:32:56
CCV NO3	15	QC	1	0.0855	1	1	1	0.9585		2024-09-24T09:34:01
CCV NO2	16	QC	?	0.0879	1	1	1	0.9858		2024-09-24T09:35:07
CCB	17	QC	0	0.0001	1	1	1	0.0021		2024-09-24T09:36:15
L2453657-01; 0.5 UP TO 50	18	Unknown	?	0.6480	100	1	1	726.0200		2024-09-24T09:37:27
L2454143-02	19	Unknown	?	0.4463	1	1	1	5.0011		2024-09-24T09:38:35
L2454521-01	20	Unknown	?	0.0122	1	1	1	0.1377		2024-09-24T09:39:41
L2454521-02	21	Unknown	?	0.0483	1	1	1	0.5423		2024-09-24T09:40:48
L2454521-03	22	Unknown	?	0.0148	1	1	1	0.1668		2024-09-24T09:41:53
L2454521-04	23	Unknown	?	0.0053	1	1	1	0.0607		2024-09-24T09:42:59
L2454521-05	24	Unknown	?	0.0105	1	1	1	0.1187		2024-09-24T09:44:04
L2454521-06	25	Unknown	?	0.0083	1	1	1	0.0942		2024-09-24T09:45:09
CCV NO3	26	QC	1	0.0844	1	1	1	0.9471		2024-09-24T09:46:15
CCV NO2	27	QC	?	0.0868	1	1	1	0.9733		2024-09-24T09:47:20
CCB	28	QC	0	0.0000	1	1	1	0.0014		2024-09-24T09:48:26

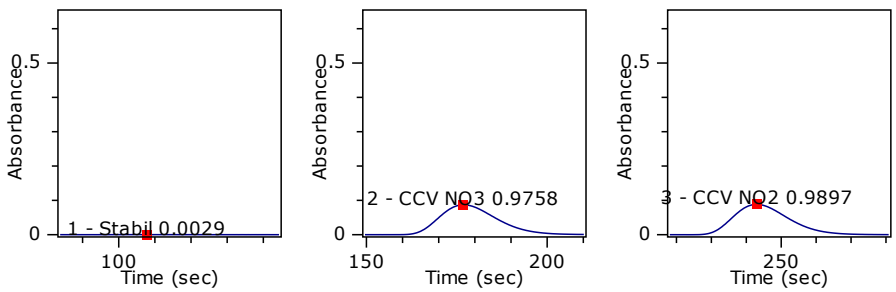
Channel: 2-NO2

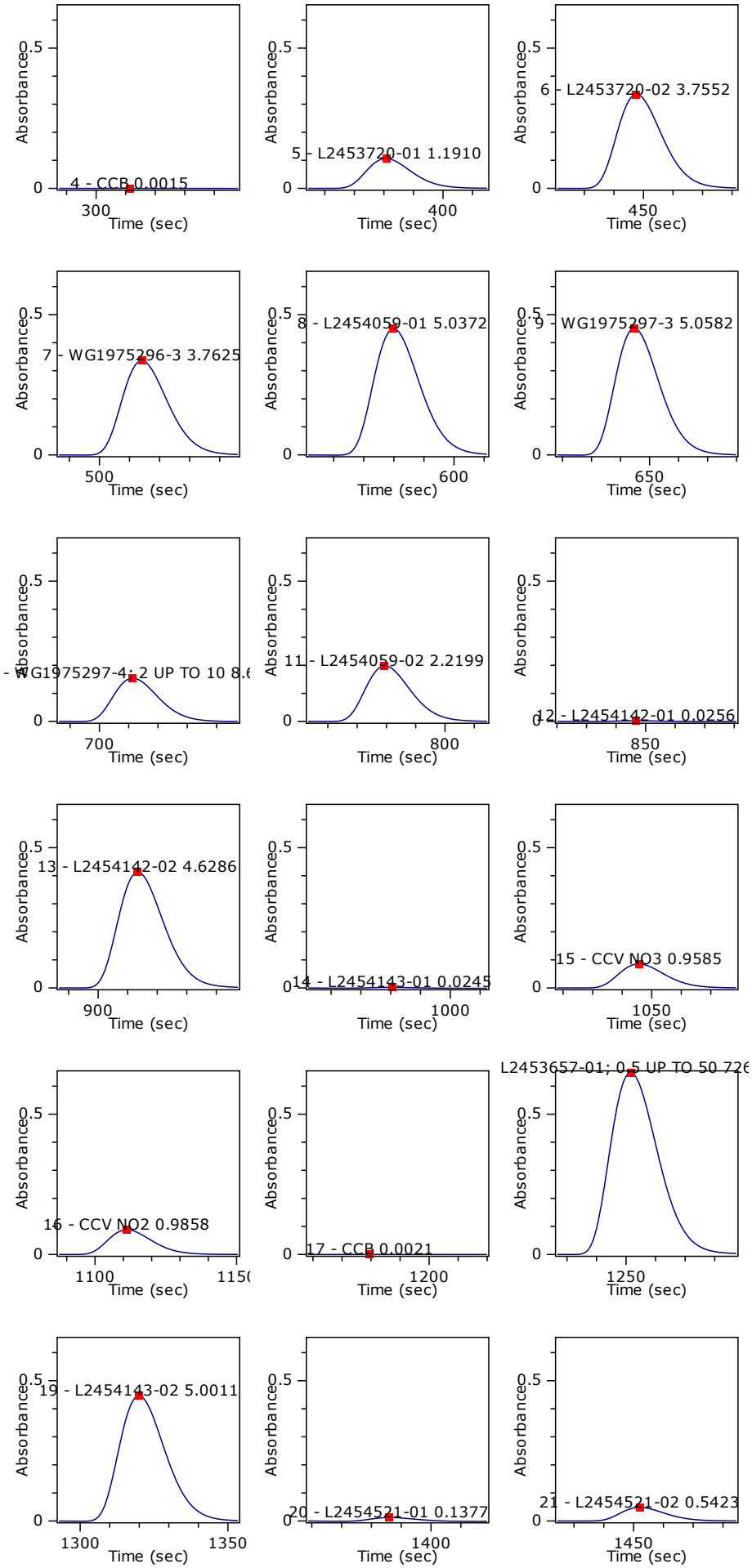
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0000	1	1	1	-0.0020		2024-09-24T09:18:10
CCV NO3	2	QC	?	0.0001	1	1	1	-0.0017		2024-09-24T09:19:23
CCV NO2	3	QC	1	0.1395	1	1	1	1.0509		2024-09-24T09:20:25
CCB	4	QC	0	0.0001	1	1	1	-0.0016		2024-09-24T09:21:35
L2453720-01	5	Unknown	?	0.0007	1	1	1	0.0032		2024-09-24T09:22:42
L2453720-02	6	Unknown	?	0.0008	1	1	1	0.0040		2024-09-24T09:23:50

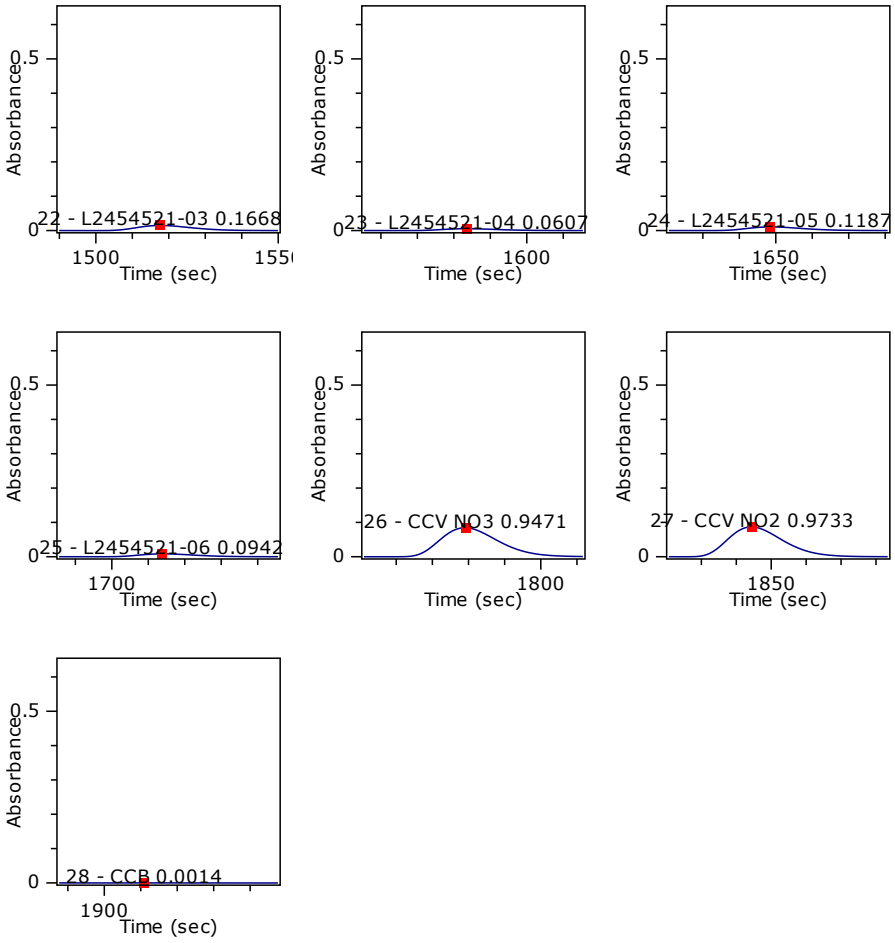
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG1975296-3	7	Unknown	?	0.0001	1	1	1	-0.0014		2024-09-24T09:24:55
L2454059-01	8	Unknown	?	0.0009	1	1	1	0.0046		2024-09-24T09:26:00
WG1975297-3	9	Unknown	?	0.0001	1	1	1	-0.0013		2024-09-24T09:27:08
WG1975297-4; 2 UP TO 10	10	Unknown	?	0.0001	5	1	1	-0.0087		2024-09-24T09:28:13
L2454059-02	11	Unknown	?	0.0007	1	1	1	0.0032		2024-09-24T09:29:23
L2454142-01	12	Unknown	?	0.0021	1	1	1	0.0138		2024-09-24T09:30:29
L2454142-02	13	Unknown	?	0.0011	1	1	1	0.0057		2024-09-24T09:31:36
L2454143-01	14	Unknown	?	0.0018	1	1	1	0.0115		2024-09-24T09:32:41
CCV NO3	15	QC	?	0.0001	1	1	1	-0.0018		2024-09-24T09:33:55
CCV NO2	16	QC	1	0.1380	1	1	1	1.0396		2024-09-24T09:34:53
CCB	17	QC	0	0.0001	1	1	1	-0.0019		2024-09-24T09:36:06
L2453657-01; 0.5 UP TO 50	18	Unknown	?	0.0176	100	1	1	13.0232		2024-09-24T09:37:15
L2454143-02	19	Unknown	?	0.0009	1	1	1	0.0045		2024-09-24T09:38:22
L2454521-01	20	Unknown	?	0.0067	1	1	1	0.0486		2024-09-24T09:39:28
L2454521-02	21	Unknown	?	0.0081	1	1	1	0.0591		2024-09-24T09:40:34
L2454521-03	22	Unknown	?	0.0107	1	1	1	0.0787		2024-09-24T09:41:40
L2454521-04	23	Unknown	?	0.0017	1	1	1	0.0107		2024-09-24T09:42:45
L2454521-05	24	Unknown	?	0.0043	1	1	1	0.0304		2024-09-24T09:43:50
L2454521-06	25	Unknown	?	0.0017	1	1	1	0.0109		2024-09-24T09:44:55
CCV NO3	26	QC	?	0.0000	1	1	1	-0.0020		2024-09-24T09:46:04
CCV NO2	27	QC	1	0.1378	1	1	1	1.0381		2024-09-24T09:47:06
CCB	28	QC	0	0.0001	1	1	1	-0.0018		2024-09-24T09:48:22

Peaks:

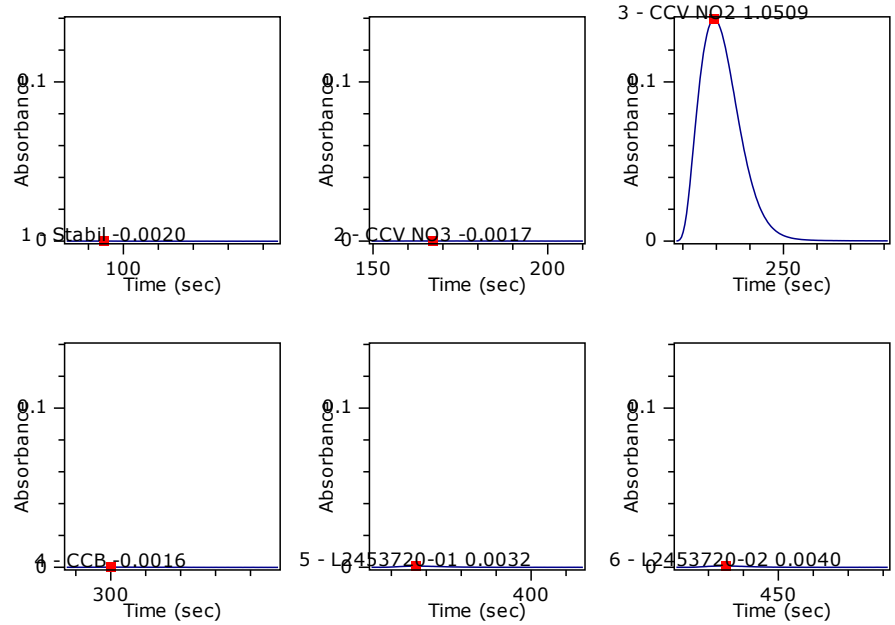
Channel: 1-NOx

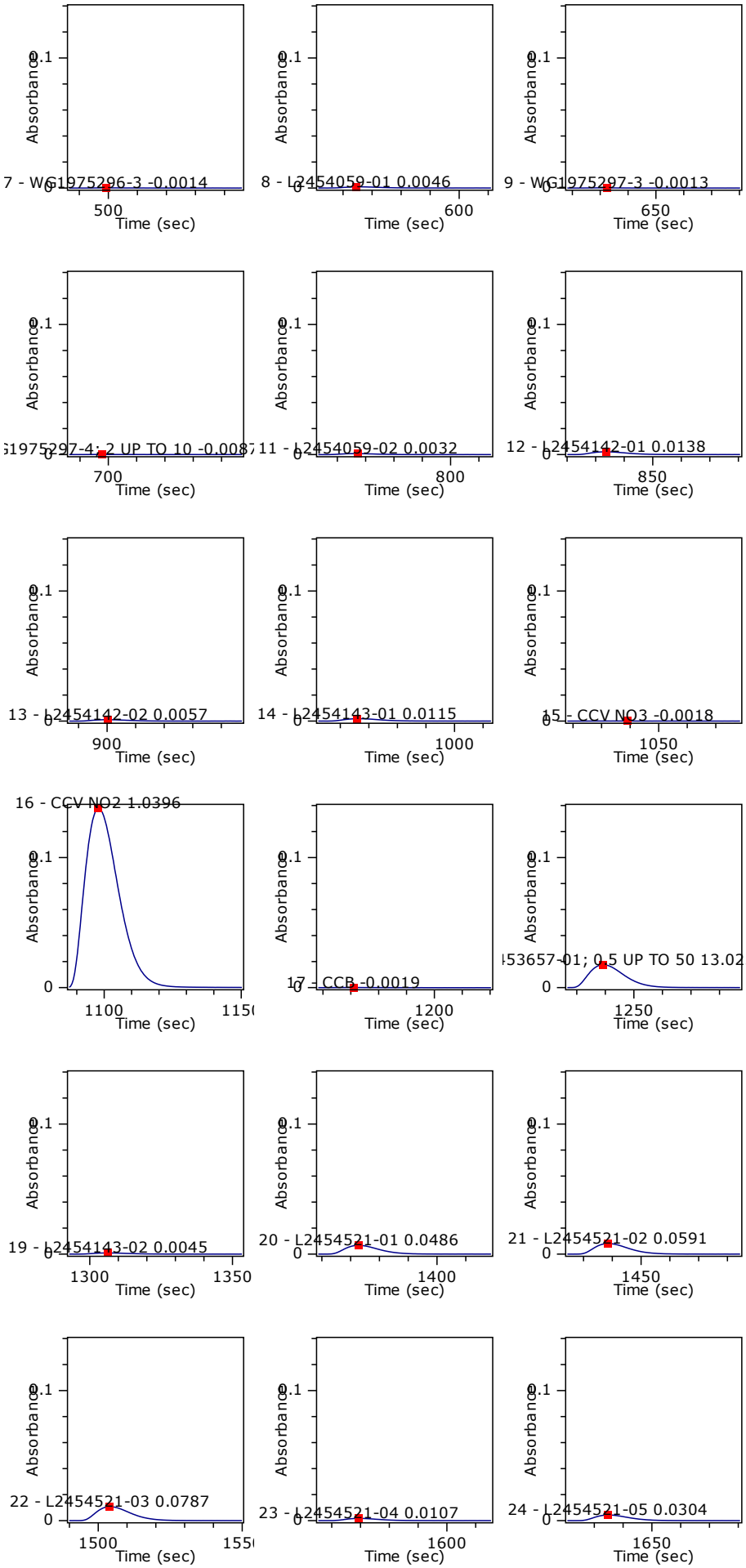


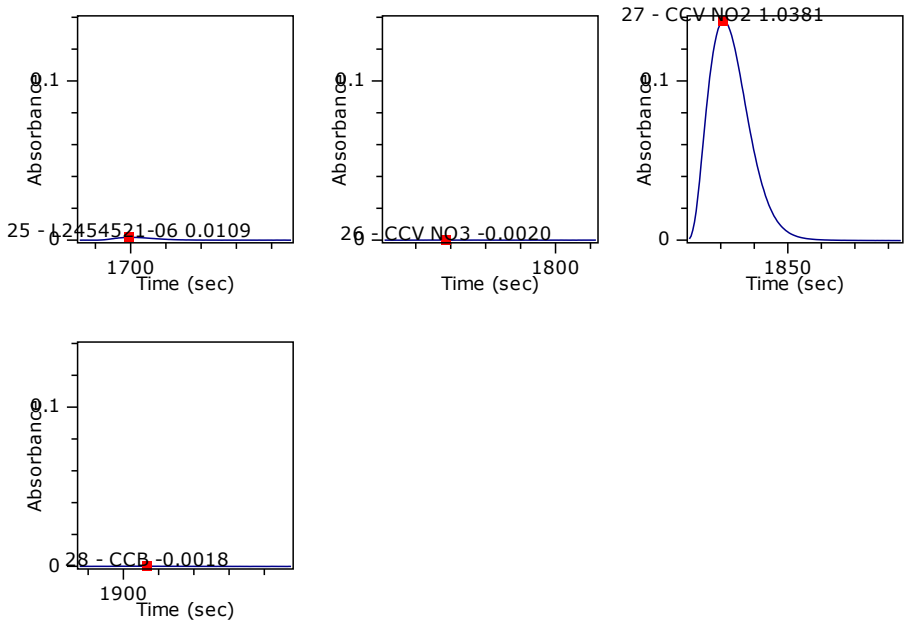

4 - CCB 0.0015
5 - L2453720-01 1.1910
6 - L2453720-02 3.7552
7 - WG1975296-3 3.7625
8 - L2454059-01 5.0372
9 - WG1975297-3 5.0582
- WG1975297-4; 2 UP TO 10 8.6
11 - L2454059-02 2.2199
12 - L2454142-01 0.0256
13 - L2454142-02 4.6286
14 - L2454143-01 0.0245
15 - CCV NO3 0.9585
L2453657-01; 0.5 UP TO 50 726
16 - CCV NO2 0.9858
17 - CCB 0.0021
19 - L2454143-02 5.0011
20 - L2454521-01 0.1377
21 - L2454521-02 0.5423
Absorbance
Time (sec)



Channel: 2-NO2




7 - WG1975296-3 -0.0014
8 - L2454059-01 0.0046
9 - WG1975297-3 -0.0013
G1975297-4; 2 UP TO 10 -0.0087
11 - L2454059-02 0.0032
12 - L2454142-01 0.0138
13 - L2454142-02 0.0057
14 - L2454143-01 0.0115
15 - CCV NO3 -0.0018
16 - CCV NO2 1.0396
17 - CCB -0.0019
53657-01; 0.5 UP TO 50 13.023
19 - L2454143-02 0.0045
20 - L2454521-01 0.0486
21 - L2454521-02 0.0591
22 - L2454521-03 0.0787
23 - L2454521-04 0.0107
24 - L2454521-05 0.0304
Absorbance
Time (sec)



Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 35.4
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 3
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2024-09-24T09:16:36

Method
------------
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.

FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
   Delay (sec) 1
   Next Sample
   Autosampler Probe Force Down

   Spectrometer Reference Scan
   Spectrometer Absorbance Scanning

   Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

   FIAlab Injection Valve Sample Load

   Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.
```

```
    FIAlab1 Injection Valve Sample Inject
    Autosampler Probe Up
    Delay (sec) 5
    Autosampler Position (#) Rinse
    FIAlab2 Injection Valve Sample Inject

    Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

    Autosampler Probe Up

    Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

    Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453720-02		
Matrix Spike	: WG1975296-4	**MS Analysis Date**	: 09/24/24 07:01
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Nitrate/Nitrite	3.8	4	7.6	95					80-120	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/24/24 09:23
Dup Sample ID	: WG1975296-3	**DUP Analysis Date**	: 09/24/24 09:24

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate/Nitrite	3.8	3.8	0	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975296-2	**LCS Analysis Date**	: 09/24/24 03:55
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Nitrogen, Nitrate/Nitrite	5.00	4.90	98.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	6	6	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	17	17	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	1	0.261	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved
Nitrogen, Nitrite	NONE	1	0.282	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved

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

Calculations of Nitrogen, Nitrate

Aqueous Samples:
Compute sample N in NO3 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 1 (NO3+NO2) and Channel 2 (NO2)

$$NO3\ mg/I = (NO3+NO2)\ mg/L - (NO2)\ mg/L$$

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO3)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Calculations of Nitrogen, Nitrite

Aqueous Samples:
Compute sample N in NO2 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (NO2)

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO2)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Sequence Logs

Date:	Initals:	Syringe Lot:	Syringe Lot: 20230620
092424	KAF	Filter Lot:	Filter Lot: 18048470A

Injection #	Rack #	Sample ID:	Comments:
19	RA1	ICV NO3 5	*Buffer: NO3NO2_091924_BUFFER*
20	RA2	ICV NO2 5	*Color: NO3NO2_091824_COLOR*
21	RA3	ICV NO3 0.5	*NO3 MS: NO3_082924_200PPM_CAL*
22	RA4	ICV NO2 0.5	*NO2 MS: NO2_092124_200PPM_CAL*
23	RA5	ICB	*ICV NO3 5: NO3_092124_5PPM_ICV*
X	RA6	5X DILUTER CHECK	*ICV NO2 5: NO2_092124_5PPM_ICV*
24	RA7	BLANK NO3	*ICV NO3 0.5: NO3_092424_0.5PPM_ICV*
25	RA8	LCS NO3	*ICV NO2 0.5: NO2_092424_0.5PPM_ICV*
26	RA9	BLANK NO2	
27	RA10	LCS NO2	
31	RA11	WG1975294-1; CNO3	*OOH*
32	RA12	WG1975294-2; CNO3	*DW*
33	RA13	WG1975295-1; CNO3	GOING OOH
34	RA14	WG1975295-2; CNO3	FIELD BLANK
35	RA15	WG1975296-1; CNO3	
36	RA16	WG1975296-2; CNO3	
37	RA17	WG1975297-1; CNO3	
38	RA18	WG1975297-2; CNO3	
39	RA19	L2453804-01	
40	RA20	WG1975294-3; CNO3	
44	RA21	WG1975294-4; CNO3	
45	RA22	L2453807-02	
46	RA23	WG1975294-5; CNO3	
47	RA24	WG1975294-6; CNO3	
48	RA25	L2453808-03	
49	RA26	L2453894-01	
50	RA27	L2453894-02	
51	RA28	L2453894-03	
52	RA29	L2453894-04	
53	RA30	L2453894-05	
57	RA31	L2453894-06	
58	RA32	L2453894-07	
59	RA33	L2453894-08	
60	RA34	L2453894-09	
61	RA35	L2453894-10	
62	RA36	L2453894-11	
5	RA37	L2453904-01	
6	RA38	L2454505-02	
7	RA39	L2454580-01	
8	RA40	L2454580-02	
9	RA41	L2454272-01	
10	RA42	WG1975295-3; CNO3	

Injection #	Rack #	Sample ID:	Comments:
11	RA43	WG1975295-4; CNO3	
12	RA44	L2454272-02	
13	RA45	L2454272-04	
14	RA46	L2454272-05	
18	RA47	L2454272-06	
19	RA48	L2454272-07	
20	RA49	L2454272-08	
21	RA50	L2454272-09	
22	RA51	L2454272-10	
23	RA52	L2452183-04	
24	RA53	L2452183-05	
25	RA54	L2452183-06	
26	RA55	L2453498-01	
27	RA56	L2453498-02	
31	RA57	L2453498-03	
32	RA58	L2453498-04	
33	RA59	L2453498-05	
34	RA60	L2453498-06	
35	RA61	L2453498-07	
36	RA62	L2453657-01	
37; 5	RA63	L2453720-01	
38; 6	RA64	L2453720-02	
39; 7	RA65	WG1975296-3; CNO3	
40	RA66	WG1975296-4; CNO3	
44	RA67	L2453720-03	
45	RA68	L2453720-04	
46	RA69	L2453720-06	
47	RA70	L2453720-07	
48	RA71	L2453720-08	
49	RA72	L2453720-09	
50	RA73	L2454352-01	
8	RA74	L2454059-01	
9	RA75	WG1975297-3; CNO3	
	RA76	WG1975297-4; CNO3	
11	RA77	L2454059-02	
12	RA78	L2454142-01	
13	RA79	L2454142-02	
14	RA80	L2454143-01	
19	RA81	L2454143-02	
20	RA82	L2454521-01	
21	RA83	L2454521-02	
22	RA84	L2454521-03	
23	RA85	L2454521-04	
24	RA86	L2454521-05	
25	RA87	L2454521-06	

Injection #	Rack #	Sample ID:	Comments:
18	RD1	L2453657-01	
10	RD2	WG1975297-4	

Total Dissolved Solids Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/26/24 04:03
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1976436.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	140	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976436-1	**Date Collected**	: NA
Client ID	: WG1976436-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/26/24 04:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1976436.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	ND	10	3.1	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976436-3	**Date Collected**	:
Client ID	: WG1976436-3 DUP	**Date Received**	: 09/15/24
Sample Location	:	**Date Analyzed**	: 09/26/24 04:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1976436.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	230	10	3.1	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976436-4	**Date Collected**	: 09/19/24 09:35
Client ID	: WG1976436-4 DUP	**Date Received**	: 09/19/24
Sample Location	:	**Date Analyzed**	: 09/26/24 04:03
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1976436.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	680	13	4.0	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: SEP-27-24 10:24:47

WorkGroup	WG1976436	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	27-SEP-24 00:50	**Time In**	27-SEP-24 05:06	**Time In**	27-SEP-24 07:33	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	27-SEP-24 04:06	**Time Out**	27-SEP-24 07:29	**Time Out**	27-SEP-24 08:53	**Time Out**		**Time Out**					

Evaporation	**Temp In (C)**	**Time In**
	90	26-SEP-24 09:00

LCS Lot #	**TrueValue**	**Units**
082724D	500	mg/l

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2452930-06	26-SEP-24 04:03	DEB WHELAN	A14	77340422	75.0995	100	75.1231	75.1233				236.00		PT
L2453081-08	26-SEP-24 04:03	DEB WHELAN	W4	77340422	65.1579	80	65.3315	65.3312				2166.25	1.3	
L2453834-01	26-SEP-24 04:03	DEB WHELAN	BIR	77340422	84.4159	80	84.4241	84.4238				98.75	1.3	
L2453834-02	26-SEP-24 04:03	DEB WHELAN	A8	77340422	79.5525	80	79.5591	79.5591				82.50	1.3	
L2453985-01	26-SEP-24 04:03	DEB WHELAN	RK	77340422	84.0364	80	84.0881	84.088				645.00	1.3	
L2453985-02	26-SEP-24 04:03	DEB WHELAN	E1	77340422	59.5616	80	59.6986	59.699				1712.50	1.3	
L2453985-04	26-SEP-24 04:03	DEB WHELAN	X	77340422	65.4442	80	65.4782	65.4783				425.00	1.3	
L2454146-01	26-SEP-24 04:03	DEB WHELAN	XB	77340422	71.0786	80	71.0883	71.0884				121.25	1.3	
L2454304-01	26-SEP-24 04:03	DEB WHELAN	XX	77340422	112.6025	100	112.613	112.6127				102.00		T2
L2454306-01	26-SEP-24 04:03	DEB WHELAN	Z4	77340422	106.1877	100	106.1986	106.1984				107.00		
L2454324-01	26-SEP-24 04:03	DEB WHELAN	CB	77340422	62.6753	80	62.6994	62.6995				301.25	1.3	
L2454324-02	26-SEP-24 04:03	DEB WHELAN	ES	77340422	59.9233	80	59.9508	59.9507				342.50	1.3	
L2454324-03	26-SEP-24 04:03	DEB WHELAN	AZ	77340422	71.5012	80	71.5365	71.5366				441.25	1.3	
L2454324-04	26-SEP-24 04:03	DEB WHELAN	RA	77340422	73.3834	80	73.716	73.7163				4157.50	1.3	
L2454324-05	26-SEP-24 04:03	DEB WHELAN	XO	77340422	64.469	80	64.5031	64.5033				426.25	1.3	
L2454324-06	26-SEP-24 04:03	DEB WHELAN	CA	77340422	58.9371	80	58.9534	58.9538				203.75	1.3	
L2454324-07	26-SEP-24 04:03	DEB WHELAN	AA2	77340422	64.1288	80	64.1453	64.1457				206.25	1.3	
L2454352-01	26-SEP-24 04:03	DEB WHELAN	EG	77340422	62.8489	80	62.8597	62.8601				135.00	1.3	
L2454786-01	26-SEP-24 04:03	DEB WHELAN	A	77340422	56.8112	80	56.893	56.8954	56.895			1022.50	1.3	
L2454884-01	26-SEP-24 04:03	DEB WHELAN	QM	77340422	106.8157	100	106.8479	106.8483				322.00	1	
WG1976436-1	26-SEP-24 04:03	DEB WHELAN	RR	77340422	65.3201	100	65.3196	65.3194				-7.00	1	T1
WG1976436-2	26-SEP-24 04:03	DEB WHELAN	BO	77340422	120.3206	50	120.3456	120.3453				494.00	2	
WG1976436-3	26-SEP-24 04:03	DEB WHELAN	MN	77340422	75.2248	100	75.2477	75.2481				229.00		PT

Alpha Analytical

Wet Chemistry Gravimetric ELN

Printed: SEP-27-24 10:24:47

WorkGroup	WG1976436	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	27-SEP-24 00:50	**Time In**	27-SEP-24 05:06	**Time In**	27-SEP-24 07:33	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	27-SEP-24 04:06	**Time Out**	27-SEP-24 07:29	**Time Out**	27-SEP-24 08:53	**Time Out**		**Time Out**					

Temp In (C)	**Time In**
90	26-SEP-24 09:00

LCS Lot #	**TrueValue**	**Units**
082724D	500	mg/l

Sample #	**Analysis Date**	**Analyst**	**Cup ID**			**Sample Volume (ml)**					**Result mg/L**	**Dil**	**Comment**
WG1976436-4	26-SEP-24 04:03	DEB WHELAN	BA	77340422	76.1203	80		76.1749		76.1751	682.50	1.3	

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/26/24 04:03
Dup Sample ID	: WG1976436-3	**DUP Analysis Date**	: 09/26/24 04:03

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	240	230	4	10

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/26/24 04:03
Dup Sample ID	: WG1976436-4	**DUP Analysis Date**	: 09/26/24 04:03

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	640	680	6	10

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1976436-2	**LCS Analysis Date**	: 09/26/24 04:03
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Solids, Total Dissolved	**500.**	**490.**	**99.**					**80-120**	**10**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Solids, Total Dissolved	NONE	10	3.07	mg/l	80-120			10	10	2540C	7 days	1 - Plastic 500ml unpreserved

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

Calculations of TDS

$$\text{mgTDS/L} = \frac{(A - B) \times 1000}{\text{Sample volume, (L)}}$$

Where:

A = Final weight (weight of dish + dried residue, g)
B = Initial weight (weight of clean dish, g)

Sulfate Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 14:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975584.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	14.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975584-1	**Date Collected**	: NA
Client ID	: WG1975584-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 14:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975584.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	1.7	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975584-3	**Date Collected**	: 09/19/24 11:20
Client ID	: WG1975584-3 DUP	**Date Received**	: 09/19/24
Sample Location	:	**Date Analyzed**	: 09/24/24 14:00
Sample Matrix	: WATER	**Dilution Factor**	: 2.5
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975584.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	90.	25	3.4	

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

S U L F A T E

Last Change 3/5/13
File SO4-L.xlt
Curve/spike/ccv;wc3437
LCS;wc3373

Sample Number: _____
Client: _____
Analysis: Sulfate, SO4
Method: SM 4500SO4-E
Instrument: SPEC6
Wavelength: 420 nm
Spike Volume(ml): 0.5
Spike Concentration (mg/l): 1000

Product: SO4-4500
Curve Calibration Date : 09/24/24
Curve Identifier: 9/24/2024
Analysis Analyte: Sulfate
Analysis Date: 9/24/2024 14:00
Preparation Date: 9/24/2024 14:00
Technician: MRW
Work group: WG1975584
RL: 10 mg/l
Cell: 2.5 cm

Reagent;lot A4117
Pippette/s: 322, 424
Acrodisk: FJ5503
Syringe: 2125536

Standard ID	Mean signal (pk area) abs	Dilution	Calc-ed Result
0	0.003	1.0	1.70
10	0.165	1.0	8.52
20	0.410	1.0	18.8
40	0.936	1.0	41.0

Calibration Curve
Volume: 25 ml

Slope	y-intercept
0.023766	-0.0374

Correlation Coefficient
0.995805

ICV/LCS Concentration (mg/l) = 20.0000

	Sample number	Sample Volume (ml)	Final Volume (ml)	Bkgd. Abs.	Gross Abs.	Net Absorbance	RESULT (mg/l)	Dilution Factor	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	25	25	0	0.001	0.001	1.749	1	1.0	1.7	Recovery
	ICV	25	25	0	0.474	0.474	21.485	1	1.0	21.5	107%
SAMP	L2453897-01	0.1	25	0.002	0.395	0.393	18.105	1	250.0	4526.3	FILTERED
SAMP	L2453908-01	25	25	0.01	0.185	0.175	9.009	1	1.0	9.0	
SAMP	L2453913-01	25	25	0.007	0.083	0.076	4.878	1	1.0	4.9	
SAMP	L2454059-01	25	25	0	0.192	0.192	9.718	1	1.0	9.7	
SAMP	L2454059-02	25	25	0.002	0.408	0.406	18.647	1	1.0	18.6	
SAMP	L2454068-01	2.5	25	0.027	0.44	0.413	18.940	1	10.0	189.4	
SAMP	L2454068-02	2	25	0.002	0.927	0.925	40.303	1	12.5	503.8	
SAMP	L2454068-03	2.5	25	0.01	0.416	0.406	18.647	1	10.0	186.5	FILTERED
	CCV1	25	25	0	0.482	0.482	21.819	1	1.0	21.8	
	CCB1	25	25	0	0.003	0.003	1.832	1	1.0	1.8	
SAMP	L2454068-04	2	25	0.001	0.825	0.824	36.089	1	12.5	451.1	FILTERED
SAMP	L2454068-05	25	25	0.015	0.404	0.389	17.938	1	1.0	17.9	FILTERED
SAMP	L2454068-06	10	25	0.006	0.805	0.799	35.045	1	2.5	87.6	
SAMP	L2454068-07	2	25	0.005	0.72	0.715	31.540	1	12.5	394.3	
SAMP	L2454068-08	2	25	0.003	0.393	0.390	17.980	1	12.5	224.7	
SAMP	L2454068-09	2	25	0.003	0.931	0.928	40.428	1	12.5	505.3	
SAMP	L2454312-02	25	25	0.039	0.569	0.530	23.821	1	1.0	23.8	
SAMP	L2454312-03	25	25	0.002	0.317	0.315	14.850	1	1.0	14.9	
SAMP	L2454312-04	25	25	0.073	0.261	0.188	9.551	1	1.0	9.6	
SAMP	L2454352-01	25	25	0.002	0.309	0.307	14.517	1	1.0	14.5	
	CCV2	25	25	0	0.472	0.472	21.401	1	1.0	21.4	
	CCB2	25	25	0	0.007	0.007	1.999	1	1.0	2.0	
SAMP	L2454668-01	25	25	0.044	0.928	0.884	38.592	1	1.0	38.6	
SAMP	L2454668-02	25	25	0.025	0.304	0.279	13.348	1	1.0	13.3	
	CCV3	25	25	0	0.459	0.459	20.859	1	1.0	20.9	
	CCB3	25	25	0	0.004	0.004	1.874	1	1.0	1.9	
BLANK	WG1975584-1	25	25	0.000	0.001	0.001	1.749	1	1.0	1.7	
DUP	WG1975584-3	10	25	0.006	0.825	0.819	35.880	1	2.5	89.7	L2454068-06

	Sample number	sample volume	Final volume (ml)	Bkgd. Abs.	Gross Abs.	Absorbance	Sample Result mg/l	Spiked Volume	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG1975584-4	5	25	0.004	0.896	0.892	87.600	5	100.0000	195	107
											L2454068-06
LCS	WG1975584-2	25	25	0	0.474	0.474		1	20.0000	21	107

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2454068-06		
Matrix Spike	: WG1975584-4	**MS Analysis Date**	: 09/24/24 14:00
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Sulfate	88.	100	200	107					55-147	14

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/24/24 14:00
Dup Sample ID	: WG1975584-3	**DUP Analysis Date**	: 09/24/24 14:00

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfate	88	90.	2	14

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975584-2	**LCS Analysis Date**	: 09/24/24 14:00
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Sulfate	**20.0**	**21.0**	**105.**					**90-110**	**14**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	4500SO4-E	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	9038	28 days	1 - Plastic 500ml unpreserved

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

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WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfate	14808-79-8	100	13.6	mg/kg	80-121	12	22-183	12	12	9038	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Sulfate

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve.

$$mgSO_4/L = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

If sample has a background absorbance, it has to be subtracted before calculation.

Alkalinity Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 11:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240924_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	29.0	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975570-3	**Date Collected**	: NA
Client ID	: WG1975570-3BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 11:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240924_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975570-4	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DRDUP	**Date Received**	: 09/20/24
Sample Location	:	**Date Analyzed**	: 09/24/24 11:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240924_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	21.9	2.00	NA	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Sample Raw Data

Results Editor

Result Overview

Sample start t	Zero poin	Unit of Ze	Data marl	Slope 1 (C	Unit of Sl	Data marl	Sensor ty	List of sta	Standard	Comment	Temperat
	7.186	pH		-56.14	mV/pH						

Results Editor

LabX

Result Overview

Sample ID1	Potentia	Unit of P	Data ma	Sample start	Volume	Unit of V	Density [	Unit of D	Cor	Uni	Tempera	Unit of T	Commer
--	7.05	pH		9/24/2024 7	0	mL	1.0	g/mL	1.0		25.0	°C	

Titration report

LabX

Method

Method ID	Alk Total (2)	**Release state**	Released
Name	EP/EP	**Modified by**	SystemInternal
Modified on	10/14/2023 11:44:43 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	Rinse,MKT	Sample size	50 mL	
		Potential R4	7.22 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.935 mL	OK
		Consumption 4.2 R3	0.940 mL	OK
		Content R5	18.700 mg/L	OK
		ALK LOW R6	18.600 mg/L	OK
2	Rinse,MKT	Sample size	50 mL	
		Potential R4	5.52 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.055 mL	OK
		Consumption 4.2 R3	0.059 mL	OK
		Content R5	1.100 mg/L	OK
		ALK LOW R6	1.020 mg/L	OK
3	WG1975412-1	Sample size	50 mL	
		Potential R4	5.20 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.034 mL	OK
		Consumption 4.2 R3	0.040 mL	OK
		Content R5	0.680 mg/L	OK
		ALK LOW R6	0.560 mg/L	OK
4	WG1975412-2	Sample size	50 mL	
		Potential R4	10.87 pH	OK
		Consumption 8.3 R1	4.891 mL	OK
		Consumption 4.5 R2	5.270 mL	OK
		Consumption 4.2 R3	5.277 mL	OK
		Content R5	105.400 mg/L	OK
		ALK LOW R6	105.260 mg/L	OK
5	I2453894-01	Sample size	50 mL	
		Potential R4	5.61 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.746 mL	OK
		Consumption 4.2 R3	3.767 mL	OK
		Content R5	74.920 mg/L	OK
		ALK LOW R6	74.500 mg/L	OK
6	I2453894-02	Sample size	50 mL	

Titration report

		Potential R4	5.90 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.525 mL	OK
		Consumption 4.2 R3	8.628 mL	OK
		Content R5	170.500 mg/L	OK
		ALK LOW R6	168.440 mg/L	OK
7	I2453894-03	Sample size	50 mL	
		Potential R4	6.16 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.915 mL	OK
		Consumption 4.2 R3	13.018 mL	OK
		Content R5	258.300 mg/L	OK
		ALK LOW R6	256.240 mg/L	OK
8	I2453894-04	Sample size	50 mL	
		Potential R4	7.91 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.248 mL	OK
		Consumption 4.2 R3	6.264 mL	OK
		Content R5	124.960 mg/L	OK
		ALK LOW R6	124.640 mg/L	OK
9	I2453894-05	Sample size	50 mL	
		Potential R4	6.18 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.658 mL	OK
		Consumption 4.2 R3	8.738 mL	OK
		Content R5	173.160 mg/L	OK
		ALK LOW R6	171.560 mg/L	OK
10	I2453894-06	Sample size	50 mL	
		Potential R4	6.22 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	18.769 mL	OK
		Consumption 4.2 R3	18.969 mL	OK
		Content R5	375.380 mg/L	OK
		ALK LOW R6	371.380 mg/L	OK
11	I2453894-07	Sample size	50 mL	
		Potential R4	6.42 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	14.890 mL	OK
		Consumption 4.2 R3	15.045 mL	OK
		Content R5	297.800 mg/L	OK
		ALK LOW R6	294.700 mg/L	OK
12	I2453894-08	Sample size	50 mL	
		Potential R4	6.46 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.443 mL	OK
		Consumption 4.2 R3	14.194 mL	OK
		Content R5	248.860 mg/L	OK

Titration report

		ALK LOW R6	213.840 mg/L	OK
13	I2453894-09	Sample size	50 mL	
		Potential R4	5.92 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.225 mL	OK
		Consumption 4.2 R3	3.239 mL	OK
		Content R5	64.500 mg/L	OK
		ALK LOW R6	64.220 mg/L	OK
14	I2453894-10	Sample size	50 mL	
		Potential R4	6.48 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	15.214 mL	OK
		Consumption 4.2 R3	15.358 mL	OK
		Content R5	304.280 mg/L	OK
		ALK LOW R6	301.400 mg/L	OK
15	I2453894-11	Sample size	50 mL	
		Potential R4	5.35 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.093 mL	OK
		Consumption 4.2 R3	0.100 mL	OK
		Content R5	1.860 mg/L	OK
		ALK LOW R6	1.720 mg/L	OK
16	I2453894-11 CONF	Sample size	50 mL	
		Potential R4	5.15 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.072 mL	OK
		Consumption 4.2 R3	0.080 mL	OK
		Content R5	1.440 mg/L	OK
		ALK LOW R6	1.280 mg/L	OK
17	I2454050-01	Sample size	50 mL	
		Potential R4	5.44 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.391 mL	OK
		Consumption 4.2 R3	1.411 mL	OK
		Content R5	27.820 mg/L	OK
		ALK LOW R6	27.420 mg/L	OK
18	WG1975412-3	Sample size	50 mL	
		Potential R4	5.50 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.351 mL	OK
		Consumption 4.2 R3	1.367 mL	OK
		Content R5	27.020 mg/L	OK
		ALK LOW R6	26.700 mg/L	OK
19	WG1975412-4	Sample size	50 mL	
		Potential R4	9.30 pH	OK
		Consumption 8.3 R1	2.153 mL	OK
		Consumption 4.5 R2	6.329 mL	OK

Titration report

		Consumption 4.2 R3	6.333 mL	OK
		Content R5	126.580 mg/L	OK
		ALK LOW R6	126.500 mg/L	OK
20	I2454050-02	Sample size	50 mL	
		Potential R4	5.37 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.959 mL	OK
		Consumption 4.2 R3	0.975 mL	OK
		Content R5	19.180 mg/L	OK
		ALK LOW R6	18.860 mg/L	OK
21	I2454050-03	Sample size	50 mL	
		Potential R4	5.49 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.090 mL	OK
		Consumption 4.2 R3	0.094 mL	OK
		Content R5	1.800 mg/L	OK
		ALK LOW R6	1.720 mg/L	OK
22	I2454050-03 CONF	Sample size	50 mL	
		Potential R4	5.24 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.070 mL	OK
		Consumption 4.2 R3	0.075 mL	OK
		Content R5	1.400 mg/L	OK
		ALK LOW R6	1.300 mg/L	OK
23	I2454050-04	Sample size	50 mL	
		Potential R4	5.71 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.121 mL	OK
		Consumption 4.2 R3	6.228 mL	OK
		Content R5	122.420 mg/L	OK
		ALK LOW R6	120.280 mg/L	OK
24	I2454051-01	Sample size	50 mL	
		Potential R4	6.37 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	18.185 mL	OK
		Consumption 4.2 R3	18.385 mL	OK
		Content R5	363.700 mg/L	OK
		ALK LOW R6	359.700 mg/L	OK
25	I2454051-02	Sample size	50 mL	
		Potential R4	6.31 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
26	I2454051-03	Sample size	50 mL	
		Potential R4	6.81 pH	OK

Titration report

		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.411 mL	OK
		Consumption 4.2 R3	12.549 mL	OK
		Content R5	248.220 mg/L	OK
		ALK LOW R6	245.460 mg/L	OK
27	l2454051-04	Sample size	50 mL	
		Potential R4	6.36 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.129 mL	OK
		Consumption 4.2 R3	8.219 mL	OK
		Content R5	162.580 mg/L	OK
		ALK LOW R6	160.780 mg/L	OK
28	l2454051-05	Sample size	50 mL	
		Potential R4	7.47 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	15.364 mL	OK
		Consumption 4.2 R3	15.529 mL	OK
		Content R5	307.280 mg/L	OK
		ALK LOW R6	303.980 mg/L	OK
29	l2454051-02 2x+10	Sample size	50 mL	
		Potential R4	5.51 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.920 mL	OK
		Consumption 4.2 R3	3.019 mL	OK
		Content R5	58.400 mg/L	OK
		ALK LOW R6	56.420 mg/L	OK
30	xLCS	Sample size	50 mL	
		Potential R4	10.86 pH	OK
		Consumption 8.3 R1	4.941 mL	OK
		Consumption 4.5 R2	5.232 mL	OK
		Consumption 4.2 R3	5.240 mL	OK
		Content R5	104.640 mg/L	OK
		ALK LOW R6	104.480 mg/L	OK
31	WG1975570-3	Sample size	50 mL	
		Potential R4	5.38 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.045 mL	OK
		Consumption 4.2 R3	0.049 mL	OK
		Content R5	0.900 mg/L	OK
		ALK LOW R6	0.820 mg/L	OK
32	l2454059-01	Sample size	50 mL	
		Potential R4	5.21 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.943 mL	OK
		Consumption 4.2 R3	0.981 mL	OK
		Content R5	18.860 mg/L	OK
		ALK LOW R6	18.100 mg/L	OK

Titration report

33	I2454059-02	Sample size	50 mL	
		Potential R4	5.44 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.212 mL	OK
		Consumption 4.2 R3	1.235 mL	OK
		Content R5	24.240 mg/L	OK
		ALK LOW R6	23.780 mg/L	OK
34	I2454352-01	Sample size	50 mL	
		Potential R4	5.44 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.452 mL	OK
		Consumption 4.2 R3	1.501 mL	OK
		Content R5	29.040 mg/L	OK
		ALK LOW R6	28.060 mg/L	OK
35	WG1975570-4	Sample size	50 mL	
		Potential R4	5.40 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.093 mL	OK
		Consumption 4.2 R3	1.134 mL	OK
		Content R5	21.860 mg/L	OK
		ALK LOW R6	21.040 mg/L	OK
36	I2453880-01	Sample size	50 mL	
		Potential R4	5.56 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.916 mL	OK
		Consumption 4.2 R3	1.936 mL	OK
		Content R5	38.320 mg/L	OK
		ALK LOW R6	37.920 mg/L	OK
37	WG1975567-3	Sample size	50 mL	
		Potential R4	5.58 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.907 mL	OK
		Consumption 4.2 R3	1.932 mL	OK
		Content R5	38.140 mg/L	OK
		ALK LOW R6	37.640 mg/L	OK
38	WG1975567-4	Sample size	50 mL	
		Potential R4	9.98 pH	OK
		Consumption 8.3 R1	4.153 mL	OK
		Consumption 4.5 R2	7.357 mL	OK
		Consumption 4.2 R3	7.362 mL	OK
		Content R5	147.140 mg/L	OK
		ALK LOW R6	147.040 mg/L	OK
39	I2453880-02	Sample size	50 mL	
		Potential R4	5.55 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.935 mL	OK
		Consumption 4.2 R3	1.964 mL	OK

Titration report

LabX

		Content R5	38.700 mg/L	OK
		ALK LOW R6	38.120 mg/L	OK
40	I2453880-03	Sample size	50 mL	
		Potential R4	6.58 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.189 mL	OK
		Consumption 4.2 R3	3.221 mL	OK
		Content R5	63.780 mg/L	OK
		ALK LOW R6	63.140 mg/L	OK
41	I2453908-01	Sample size	50 mL	
		Potential R4	5.62 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.261 mL	OK
		Consumption 4.2 R3	2.303 mL	OK
		Content R5	45.220 mg/L	OK
		ALK LOW R6	44.380 mg/L	OK
42	Xdup	Sample size	50 mL	
		Potential R4	5.59 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.260 mL	OK
		Consumption 4.2 R3	2.296 mL	OK
		Content R5	45.200 mg/L	OK
		ALK LOW R6	44.480 mg/L	OK
43	I2453913-01	Sample size	50 mL	
		Potential R4	5.69 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.968 mL	OK
		Consumption 4.2 R3	2.995 mL	OK
		Content R5	59.360 mg/L	OK
		ALK LOW R6	58.820 mg/L	OK
44	I2453926-01	Sample size	50 mL	
		Potential R4	6.77 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.315 mL	OK
		Consumption 4.2 R3	6.371 mL	OK
		Content R5	126.300 mg/L	OK
		ALK LOW R6	125.180 mg/L	OK
45	I2454068-01	Sample size	50 mL	
		Potential R4	5.19 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.422 mL	OK
		Consumption 4.2 R3	0.485 mL	OK
		Content R5	8.440 mg/L	OK
		ALK LOW R6	7.180 mg/L	OK
46	I2454068-03	Sample size	50 mL	
		Potential R4	5.60 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK

Titration report

		Consumption 4.5 R2	2.239 mL	OK
		Consumption 4.2 R3	2.322 mL	OK
		Content R5	44.780 mg/L	OK
		ALK LOW R6	43.120 mg/L	OK
47	I2454068-07	Sample size	50 mL	
		Potential R4	5.32 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.891 mL	OK
		Consumption 4.2 R3	2.030 mL	OK
		Content R5	37.820 mg/L	OK
		ALK LOW R6	35.040 mg/L	OK
48	I2454068-08	Sample size	50 mL	
		Potential R4	5.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.842 mL	OK
		Consumption 4.2 R3	5.986 mL	OK
		Content R5	116.840 mg/L	OK
		ALK LOW R6	113.960 mg/L	OK
49	I2454202-01 2x	Sample size	50 mL	
		Potential R4	7.78 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
50	I2454324-01	Sample size	50 mL	
		Potential R4	5.55 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.351 mL	OK
		Consumption 4.2 R3	6.461 mL	OK
		Content R5	127.020 mg/L	OK
		ALK LOW R6	124.820 mg/L	OK
51	I2454324-02	Sample size	50 mL	
		Potential R4	5.81 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	10.690 mL	OK
		Consumption 4.2 R3	10.826 mL	OK
		Content R5	213.800 mg/L	OK
		ALK LOW R6	211.080 mg/L	OK
52	I2454324-03	Sample size	50 mL	
		Potential R4	5.85 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.682 mL	OK
		Consumption 4.2 R3	11.845 mL	OK
		Content R5	233.640 mg/L	OK
		ALK LOW R6	230.380 mg/L	OK
53	I2454324-04	Sample size	50 mL	

Titration report

		Potential R4	5.58 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.450 mL	OK
		Consumption 4.2 R3	3.527 mL	OK
		Content R5	69.000 mg/L	OK
		ALK LOW R6	67.460 mg/L	OK
54	I2454324-05	Sample size	50 mL	
		Potential R4	5.80 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.260 mL	OK
		Consumption 4.2 R3	5.357 mL	OK
		Content R5	105.200 mg/L	OK
		ALK LOW R6	103.260 mg/L	OK
55	I2454324-06	Sample size	50 mL	
		Potential R4	5.80 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.486 mL	OK
		Consumption 4.2 R3	3.516 mL	OK
		Content R5	69.720 mg/L	OK
		ALK LOW R6	69.120 mg/L	OK
56	I2454324-07	Sample size	50 mL	
		Potential R4	5.82 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.871 mL	OK
		Consumption 4.2 R3	4.930 mL	OK
		Content R5	97.420 mg/L	OK
		ALK LOW R6	96.240 mg/L	OK
57	I2454202-01 2x+25	Sample size	50 mL	
		Potential R4	4.69 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.678 mL	OK
		Consumption 4.2 R3	10.560 mL	OK
		Content R5	33.560 mg/L	OK
		ALK LOW R6	-144.080 mg/L	OK
58	WG1975567-2	Sample size	50 mL	
		Potential R4	10.84 pH	OK
		Consumption 8.3 R1	4.868 mL	OK
		Consumption 4.5 R2	5.225 mL	OK
		Consumption 4.2 R3	5.231 mL	OK
		Content R5	104.500 mg/L	OK
		ALK LOW R6	104.380 mg/L	OK
59	WG1975567-1	Sample size	50 mL	
		Potential R4	5.26 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.050 mL	OK
		Consumption 4.2 R3	0.056 mL	OK
		Content R5	1.000 mg/L	OK

Titration report

		ALK LOW R6	0.880 mg/L	OK
60	I2453990-01	Sample size	50 mL	
		Potential R4	6.20 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
61	I2453990-02	Sample size	50 mL	
		Potential R4	4.67 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.766 mL	OK
		Consumption 4.2 R3	1.564 mL	OK
		Content R5	15.320 mg/L	OK
		ALK LOW R6	-0.640 mg/L	OK
62	I2453990-03	Sample size	50 mL	
		Potential R4	5.94 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	14.258 mL	OK
		Consumption 4.2 R3	14.719 mL	OK
		Content R5	285.160 mg/L	OK
		ALK LOW R6	275.940 mg/L	OK
63	I2453990-04	Sample size	50 mL	
		Potential R4	6.25 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
64	I2453990-05	Sample size	50 mL	
		Potential R4	6.00 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.813 mL	OK
		Consumption 4.2 R3	12.200 mL	OK
		Content R5	236.260 mg/L	OK
		ALK LOW R6	228.520 mg/L	OK
65	I2453990-06	Sample size	50 mL	
		Potential R4	5.48 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.661 mL	OK
		Consumption 4.2 R3	3.760 mL	OK
		Content R5	73.220 mg/L	OK
		ALK LOW R6	71.240 mg/L	OK
66	I2453990-07	Sample size	50 mL	
		Potential R4	5.90 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	14.398 mL	OK

Titration report

		Consumption 4.2 R3	14.868 mL	OK
		Content R5	287.960 mg/L	OK
		ALK LOW R6	278.560 mg/L	OK
67	I2453990-08	Sample size	50 mL	
		Potential R4	5.20 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.499 mL	OK
		Consumption 4.2 R3	1.652 mL	OK
		Content R5	29.980 mg/L	OK
		ALK LOW R6	26.920 mg/L	OK
68	I2453990-09	Sample size	50 mL	
		Potential R4	4.44 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.696 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
69	I2454036-01	Sample size	50 mL	
		Potential R4	5.92 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.099 mL	OK
		Consumption 4.2 R3	6.155 mL	OK
		Content R5	121.980 mg/L	OK
		ALK LOW R6	120.860 mg/L	OK
70	I2454036-02	Sample size	50 mL	
		Potential R4	5.99 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.692 mL	OK
		Consumption 4.2 R3	8.787 mL	OK
		Content R5	173.840 mg/L	OK
		ALK LOW R6	171.940 mg/L	OK
71	I2454036-03	Sample size	50 mL	
		Potential R4	6.07 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.150 mL	OK
		Consumption 4.2 R3	9.246 mL	OK
		Content R5	183.000 mg/L	OK
		ALK LOW R6	181.080 mg/L	OK
72	I2454036-04	Sample size	50 mL	
		Potential R4	5.97 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.811 mL	OK
		Consumption 4.2 R3	6.879 mL	OK
		Content R5	136.220 mg/L	OK
		ALK LOW R6	134.860 mg/L	OK
73	I2454036-05	Sample size	50 mL	
		Potential R4	6.16 pH	OK

Titration report

LabX

		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.594 mL	OK
		Consumption 4.2 R3	9.688 mL	OK
		Content R5	191.880 mg/L	OK
		ALK LOW R6	190.000 mg/L	OK
74	WG1975624-3	Sample size	50 mL	
		Potential R4	6.22 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.585 mL	OK
		Consumption 4.2 R3	9.676 mL	OK
		Content R5	191.700 mg/L	OK
		ALK LOW R6	189.880 mg/L	OK
75	WG1975624-4	Sample size	50 mL	
		Potential R4	7.68 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.922 mL	OK
		Consumption 4.2 R3	15.134 mL	OK
		Content R5	178.440 mg/L	OK
		ALK LOW R6	54.200 mg/L	OK
76	I2454036-06	Sample size	50 mL	
		Potential R4	5.94 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.829 mL	OK
		Consumption 4.2 R3	6.899 mL	OK
		Content R5	136.580 mg/L	OK
		ALK LOW R6	135.180 mg/L	OK
77	I2454036-07	Sample size	50 mL	
		Potential R4	5.95 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.814 mL	OK
		Consumption 4.2 R3	6.881 mL	OK
		Content R5	136.280 mg/L	OK
		ALK LOW R6	134.940 mg/L	OK
78	I2454036-08	Sample size	50 mL	
		Potential R4	6.25 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	13.873 mL	OK
		Consumption 4.2 R3	14.026 mL	OK
		Content R5	277.460 mg/L	OK
		ALK LOW R6	274.400 mg/L	OK
79	I2454036-09	Sample size	50 mL	
		Potential R4	5.73 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.188 mL	OK
		Consumption 4.2 R3	0.195 mL	OK
		Content R5	3.760 mg/L	OK
		ALK LOW R6	3.620 mg/L	OK

Titration report

80	I2454036-09 CONF	Sample size	50 mL	
		Potential R4	5.33 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.171 mL	OK
		Consumption 4.2 R3	0.173 mL	OK
		Content R5	3.420 mg/L	OK
		ALK LOW R6	3.380 mg/L	OK
81	I2454036-10	Sample size	50 mL	
		Potential R4	5.28 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.092 mL	OK
		Consumption 4.2 R3	0.096 mL	OK
		Content R5	1.840 mg/L	OK
		ALK LOW R6	1.760 mg/L	OK
82	I2454036-10 CONF	Sample size	50 mL	
		Potential R4	5.17 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.130 mL	OK
		Consumption 4.2 R3	0.133 mL	OK
		Content R5	2.600 mg/L	OK
		ALK LOW R6	2.540 mg/L	OK
83	I2454218-01	Sample size	50 mL	
		Potential R4	5.82 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.707 mL	OK
		Consumption 4.2 R3	8.885 mL	OK
		Content R5	174.140 mg/L	OK
		ALK LOW R6	170.580 mg/L	OK
84	L2453990-01 5x	Sample size	50 mL	
		Potential R4	5.97 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.324 mL	OK
		Consumption 4.2 R3	4.372 mL	OK
		Content R5	86.480 mg/L	OK
		ALK LOW R6	85.520 mg/L	OK
85	L2453990-04 5x	Sample size	50 mL	
		Potential R4	6.10 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.673 mL	OK
		Consumption 4.2 R3	4.773 mL	OK
		Content R5	93.460 mg/L	OK
		ALK LOW R6	91.460 mg/L	OK
86	L2453990-09	Sample size	50 mL	
		Potential R4	4.56 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.301 mL	OK
		Consumption 4.2 R3	1.108 mL	OK

Titration report

		Content R5	6.020 mg/L	OK
		ALK LOW R6	-10.120 mg/L	OK
87	CCV	Sample size	50 mL	
		Potential R4	10.77 pH	OK
		Consumption 8.3 R1	4.964 mL	OK
		Consumption 4.5 R2	5.348 mL	OK
		Consumption 4.2 R3	5.349 mL	OK
		Content R5	106.960 mg/L	OK
		ALK LOW R6	106.940 mg/L	OK
88	CCB	Sample size	50 mL	
		Potential R4	5.09 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.059 mL	OK
		Consumption 4.2 R3	0.069 mL	OK
		Content R5	1.180 mg/L	OK
		ALK LOW R6	0.980 mg/L	OK
89	CCV	Sample size	50 mL	
		Potential R4	10.78 pH	OK
		Consumption 8.3 R1	4.916 mL	OK
		Consumption 4.5 R2	5.283 mL	OK
		Consumption 4.2 R3	5.289 mL	OK
		Content R5	105.660 mg/L	OK
		ALK LOW R6	105.540 mg/L	OK
90	CCB	Sample size	50 mL	
		Potential R4	5.76 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.105 mL	OK
		Consumption 4.2 R3	0.106 mL	OK
		Content R5	2.100 mg/L	OK
		ALK LOW R6	2.080 mg/L	OK

Statistics

R1

Mean	NaN mL		
Maximum	4.964 mL	**Minimum**	2.153 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	90	**Samples excluded**	0

R2

Mean	NaN mL		
Maximum	18.769 mL	**Minimum**	0.034 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	90	**Samples excluded**	0

R3

Titration report

Mean	NaN mL		
Maximum	18.969 mL	**Minimum**	0.040 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	90	**Samples excluded**	0

R4

Mean	6.19 pH		
Maximum	10.87 pH	**Minimum**	4.44 pH
Standard deviation	1.41 pH	**Rel. standard deviation**	22.791 %
Total samples	90	**Samples excluded**	0

R5

Mean	NaN mg/L		
Maximum	375.380 mg/L	**Minimum**	0.680 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	90	**Samples excluded**	0

R6

Mean	NaN mg/L		
Maximum	371.380 mg/L	**Minimum**	-144.080 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	90	**Samples excluded**	0

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
9/24/2024 7:49:59 AM	SystemInternal	System internal account

(17) Data compression on instrument occurred

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: SCDOH-DR	**Matrix**	: WATER
Lab Sample ID	: L2454352-01	**Analysis Date**	: 09/24/24 11:47
Dup Sample ID	: WG1975570-4	**DUP Analysis Date**	: 09/24/24 11:49

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10
Alkalinity, Bicarbonate	29.0	21.9	28 Q	9

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Alkalinity, Total	471-34-1	2		mg CaCO3/L	90-110	10	86-116	10	10	2320B	14 days	1 - Plastic 250ml unpreserved/No Headspace

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

Calculations of Alkalinity

$$\text{Alkalinity, mg } CaCO_3/L = \frac{A \times N \times 50{,}000}{\text{mL Sample}}$$

Where:

A = mL of the standard acid titrated

N = normality of the standard acid

Results are calculated using Mettler Toledo software.

Standard sample size is 50mL, 0.02N Sulfuric acid for titration

Sequence Logs

CAL	240924	LCS 7.0	7.05	INT:	MKT
pH 4	3295	Titrant:	4193		
pH 7	3386	LCS:	3257		
pH 10	3298	MS:	3255		
LCS	3409				

1	Rinse,MKT	42	Xdup	83	l2454218-01
2	Rinse,MKT	43	l2453913-01	84	L2453990-01 5x
3	WG1975412-1	44	l2453926-01	85	L2453990-04 5x
4	WG1975412-2	45	l2454068-01	86	L2453990-09
5	l2453894-01	46	l2454068-03	87	CCV
6	l2453894-02	47	l2454068-07	88	CCB
7	l2453894-03	48	l2454068-08	89	CCV
8	l2453894-04	49	l2454202-01 2x	90	CCB
9	l2453894-05	50	l2454324-01	91	
10	l2453894-06	51	l2454324-02	92	
11	l2453894-07	52	l2454324-03	93	
12	l2453894-08	53	l2454324-04	94	
13	l2453894-09	54	l2454324-05	95	
14	l2453894-10	55	l2454324-06	96	
15	l2453894-11	56	l2454324-07	97	
16	l2453894-11 CONF	57	l2454202-01 2x+25	98	
17	l2454050-01	58	WG1975567-2	99	
18	WG1975412-3	59	WG1975567-1	100	
19	WG1975412-4	60	l2453990-01	101	
20	l2454050-02	61	l2453990-02	102	
21	l2454050-03	62	l2453990-03	103	
22	l2454050-03 CONF	63	l2453990-04	104	
23	l2454050-04	64	l2453990-05	105	
24	l2454051-01	65	l2453990-06	106	
25	l2454051-02	66	l2453990-07	107	
26	l2454051-03	67	l2453990-08	108	
27	l2454051-04	68	l2453990-09	109	
28	l2454051-05	69	l2454036-01	110	
29	l2454051-02 2x+10	70	l2454036-02	111	
30	xLCS	71	l2454036-03	112	
31	WG1975570-3	72	l2454036-04	113	
32	l2454059-01	73	l2454036-05	114	
33	l2454059-02	74	WG1975624-3		
34	l2454352-01	75	WG1975624-4		2X = 25 mL
35	WG1975570-4	76	l2454036-06		5X = 10 mL
36	l2453880-01	77	l2454036-07		10X = 5 mL
37	WG1975567-3	78	l2454036-08		
38	WG1975567-4	79	l2454036-09		
39	l2453880-02	80	l2454036-09 CONF		
40	l2453880-03	81	l2454036-10		
41	l2453908-01	82	l2454036-10 CONF		

Chloride Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 16:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240925-A1	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	42.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976174-1	**Date Collected**	: NA
Client ID	: WG1976174-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/25/24 15:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240925-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	ND	1.0	0.89	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976174-3	**Date Collected**	: 09/17/24 09:30
Client ID	: WG1976174-3 DUP	**Date Received**	: 09/17/24
Sample Location	:	**Date Analyzed**	: 09/25/24 17:38
Sample Matrix	: WATER	**Dilution Factor**	: 100
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240925-A1	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	2600	100	89.	

Sample Raw Data

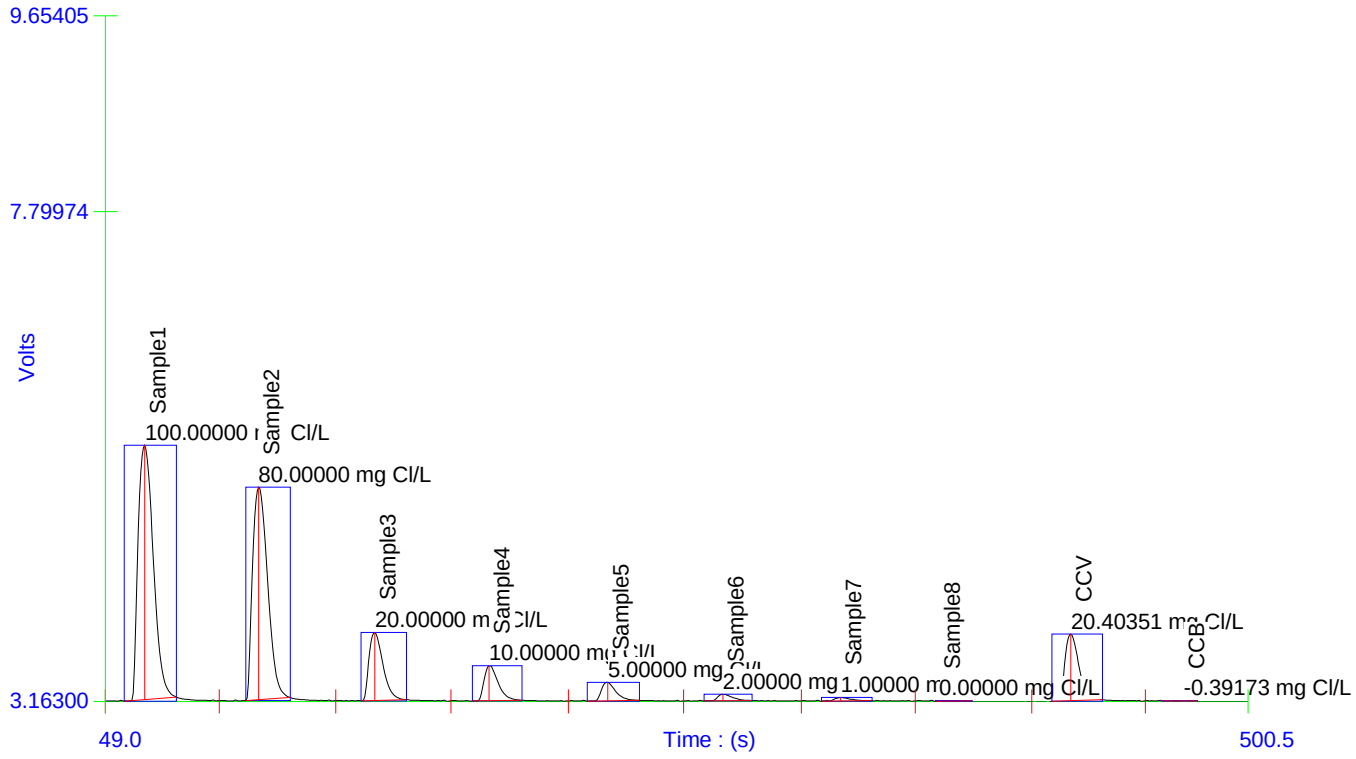
Author: Date : 9/25/2024

Original Run Filename: OM_9-25-2024_03-11-27PM.OMN Created: 9/25/2024 3:11:27 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_9-25-2024_03-11-27PM.OMN Last Modified: 9/25/2024 4:10:49 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight	
	Sample1	1	S1	100.00000				
	Sample2	1	S2	80.00000				
	Sample3	1	S3	20.00000				
	Sample4	1	S4	10.00000				
	Sample5	1	S5	5.00000				
	Sample6	1	S6	2.00000				
	Sample7	1	S7	1.00000				
	Sample8	1	S9	0.00000				
	CCV	1	S3	20.40351				
		Known Conc:		20.00000				
		Calibration:		Table/Fig. : 1				
	CCB	1	S9	-0.39173				
		Known Conc:		0.00000				
	ICV 5.0	1	1	4.68695				94%
	ICV 30.0	1	2	32.44084				108%
	ICV 80.0	1	3	81.41113				102%
	ICB	1	4	0.08210				
x	100 PPM	1	5	113.79623	10.00			
	WG1976172-1; BLK	1	6	-0.30557				
	WG1976172-2; LCS	1	7	30.46825				102%
	WG1976174-1; BLK	1	8	-0.20025				
	100 PPM	1	5	93.37872	10.00			93%
	WG1976174-2; LCS	1	9	30.74532				102%
	CCV	1	S3	20.29354				
		Known Conc:		20.00000				
	CCB	1	S9	-0.22693				
		Known Conc:		0.00000				
	WG1976177-1; BLK	1	10	-0.20917				
	WG1976177-2; LCS	1	11	30.62812				102%
	L2453297-01	1	12	10.66129				
	WG1976172-5; DUP	1	13	10.53197				
	WG1976172-6; MS	1	14	31.52058				
	L2453297-02	1	15	8.61427				
	L2453297-03	1	16	7.93539				
	L2453297-04	1	17	38.02783				
	L2453297-05	1	18	69.19276				
	L2453297-06	1	19	68.35243	10.00			
	CCV	1	S3	20.42749				
		Known Conc:		20.00000				
	CCB	1	S9	-0.17604				
		Known Conc:		0.00000				
	L2454324-01	1	20	85.70192				
	L2454324-02	1	21	41.42353				
	L2454324-03	1	22	60.01095				
	L2454324-04	1	23	376.89276				
	L2454324-05	1	24	113.21426				
	L2454922-01	1	25	46.89487				
	WG1976172-3; DUP	1	26	46.45760				
	WG1976172-4; MS	1	27	63.91798				
	L2454922-02	1	28	86.02489				
	L2454922-03	1	29	106.03735	10.00			
	CCV	1	S3	20.29969				
		Known Conc:		20.00000				
	CCB	1	S9	-0.25913				
		Known Conc:		0.00000				
	L2454922-04	1	30	90.19321				
	L2454922-05	1	31	94.33074				
	L2454922-06	1	32	101.03107				

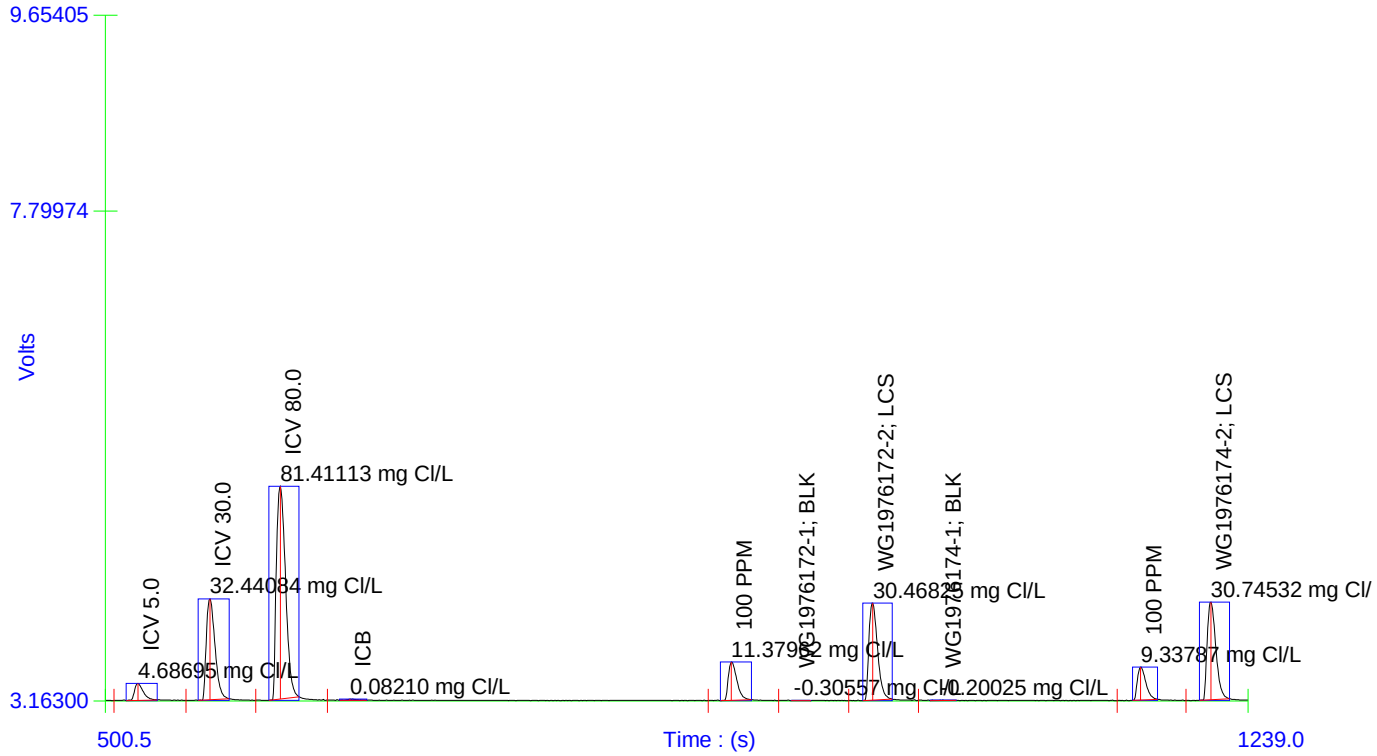
L2454922-07	1	33	94.88866			
L2454922-08	1	34	4.70992			
L2454922-09	1	35	30.28467			
L2453372-01	1	36	408.83023			
L2453372-02	1	37	393.81567			
L2453372-03	1	38	22.33424			
L2453372-05	1	39	773.17200	10.00		
CCV	1	S3	21.07210			
	Known Conc:		20.00000			
CCB	1	S9	-0.10030			
	Known Conc:		0.00000			
~~L2453372-06~~	~~1~~	~~40~~	~~390.34421~~			
~~L2453372-08~~	~~1~~	~~41~~	~~394.40567~~			
~~WG1976174-3; DUP~~	~~1~~	~~42~~	~~397.88541~~			
~~WG1976174-4; MS~~	~~1~~	~~43~~	~~357.41235~~			
~~L2453372-10~~	~~1~~	~~44~~	~~390.65686~~			
~~L2453372-11~~	~~1~~	~~45~~	~~326.01483~~			
~~L2453372-12~~	~~1~~	~~46~~	~~286.71631~~			

Channel 1 (Chloride) - Set: 1 / 7

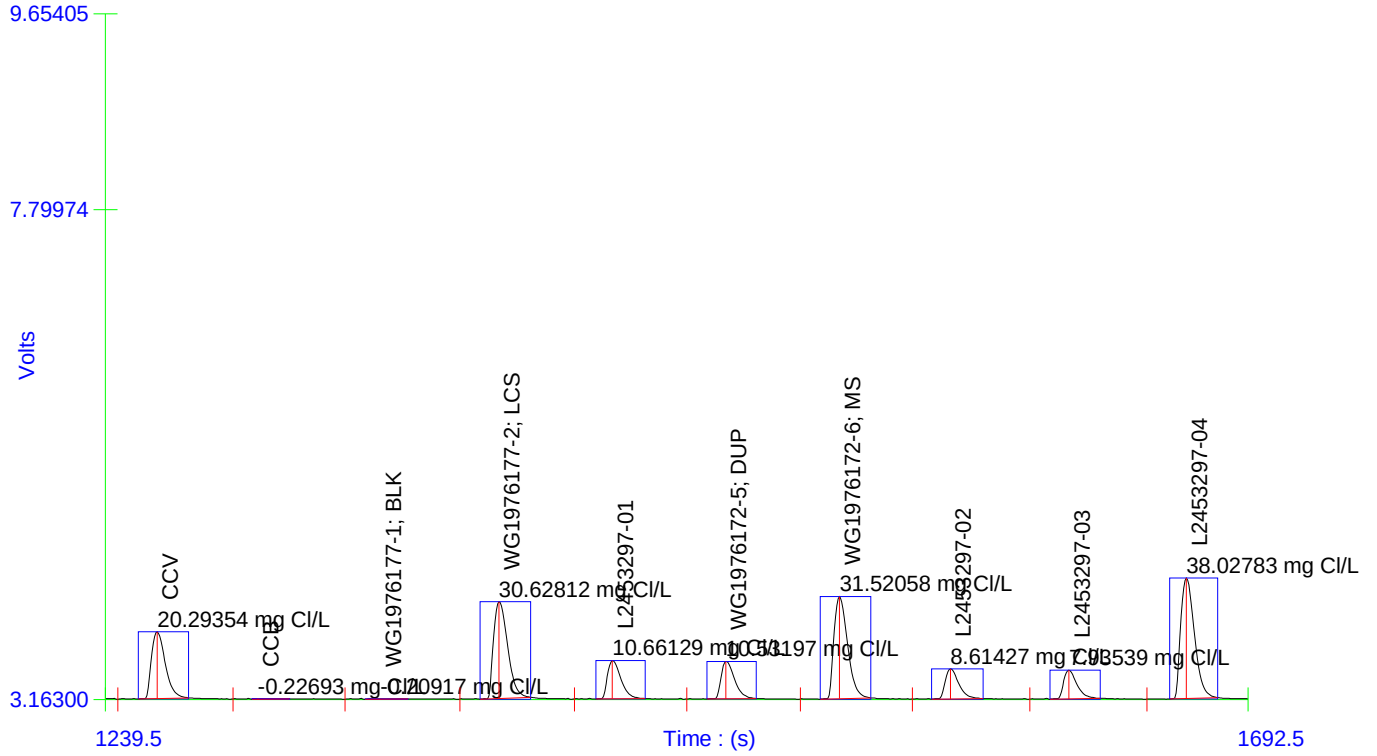


Author: Date : 9/25/2024

Channel 1 (Chloride) - Set: 2 / 7

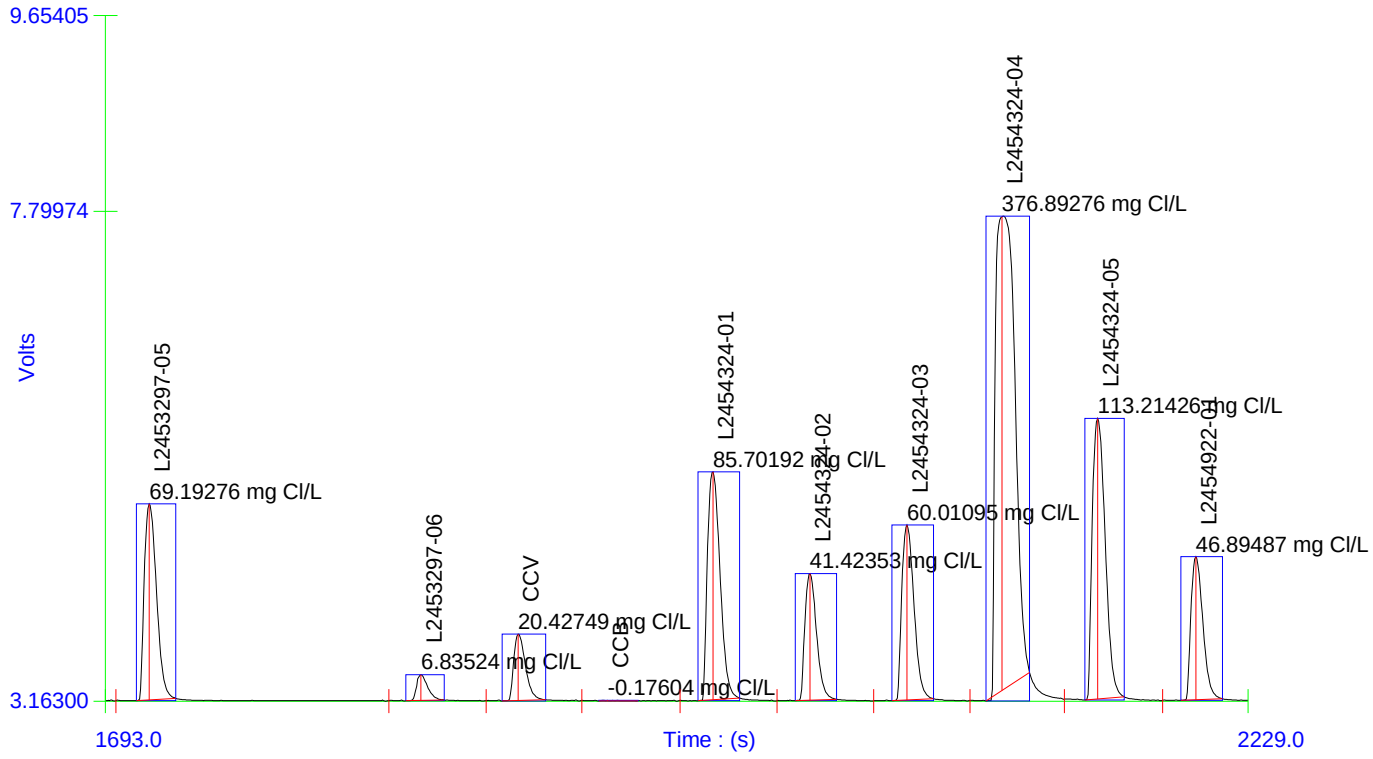


Channel 1 (Chloride) - Set: 3 / 7



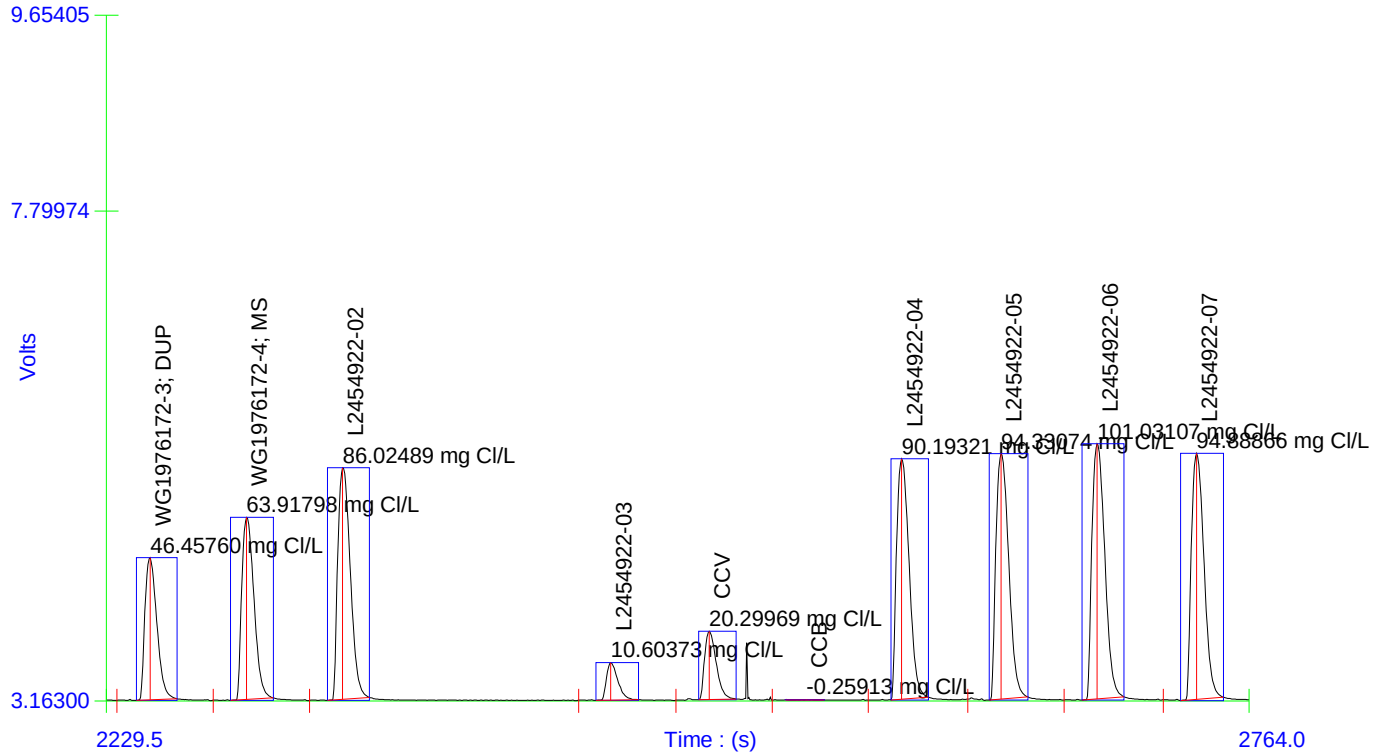
Author: Date : 9/25/2024

Channel 1 (Chloride) - Set: 4 / 7

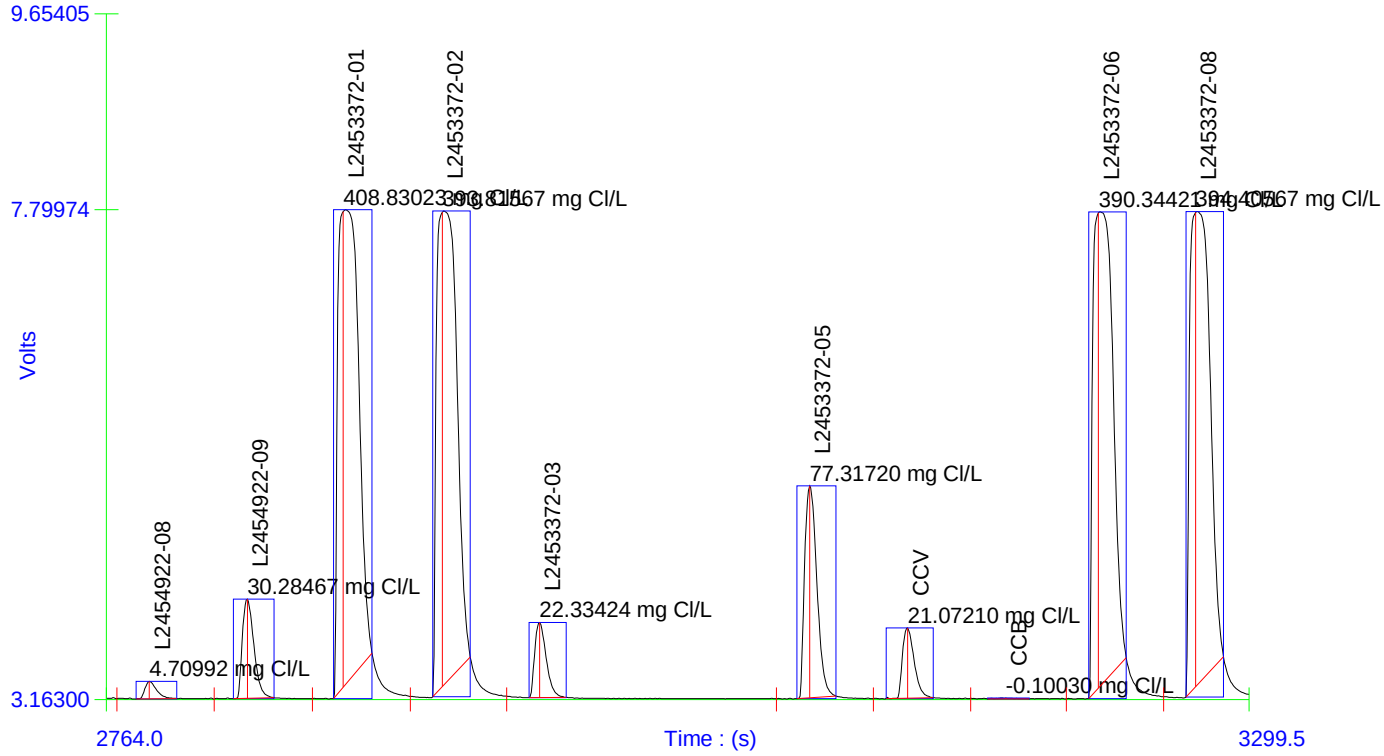


Author: Date : 9/25/2024

Channel 1 (Chloride) - Set: 5 / 7



Channel 1 (Chloride) - Set: 6 / 7



Channel 1 (Chloride) - Set: 7 / 7

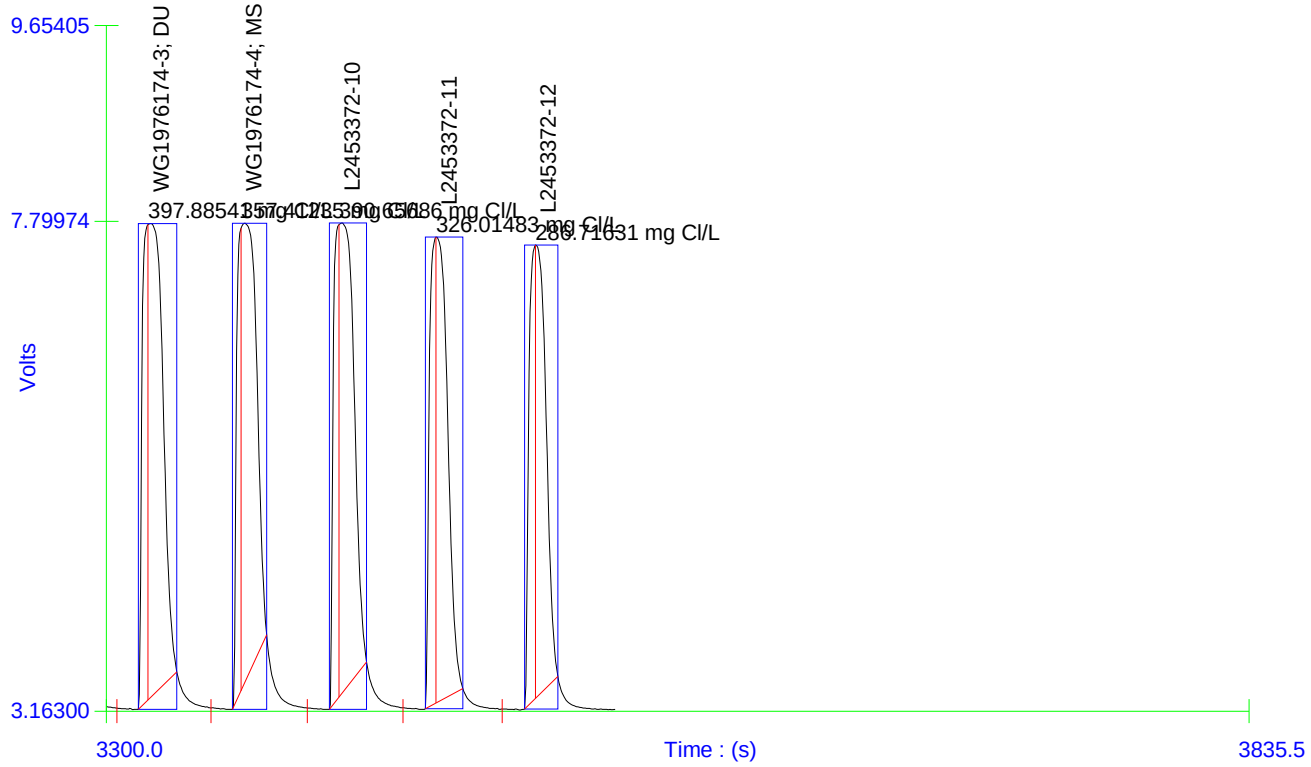
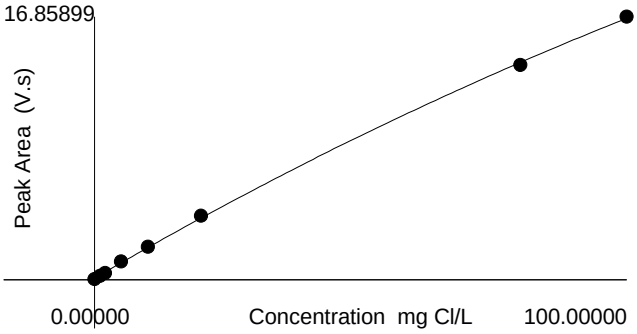


Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	16.85899	2.40574	0.0	-0.6	100.54659	9/25/2024	3:12:31 PM
2	80.00000	1	13.75806	2.01341	0.0	1.3	79.12409	9/25/2024	3:13:16 PM
3	20.00000	1	4.08135	0.64254	0.0	-3.5	20.56298	9/25/2024	3:14:02 PM
4	10.00000	1	2.10501	0.33171	0.0	-2.5	10.14672	9/25/2024	3:14:47 PM
5	5.00000	1	1.16139	0.17575	0.0	-7.2	5.35815	9/25/2024	3:15:34 PM
6	2.00000	1	0.42366	0.06354	0.0	14.3	1.69750	9/25/2024	3:16:20 PM
7	1.00000	1	0.23703	0.03340	0.0	20.1	0.78304	9/25/2024	3:17:06 PM
8	0.00000	1	0.03142	0.00436			-0.21906	9/25/2024	3:17:51 PM

Figure : 1 (Chloride-CH3)



Area = - 0.00032 * Conc^2 + 0.19871 * Conc + 0.09824
Conc = 0.06704 * Area^2 + 4.85573 * Area - 0.37170
Correlation Coefficient (r) = 0.99986

Weighting : None

Author: Date : 9/25/2024

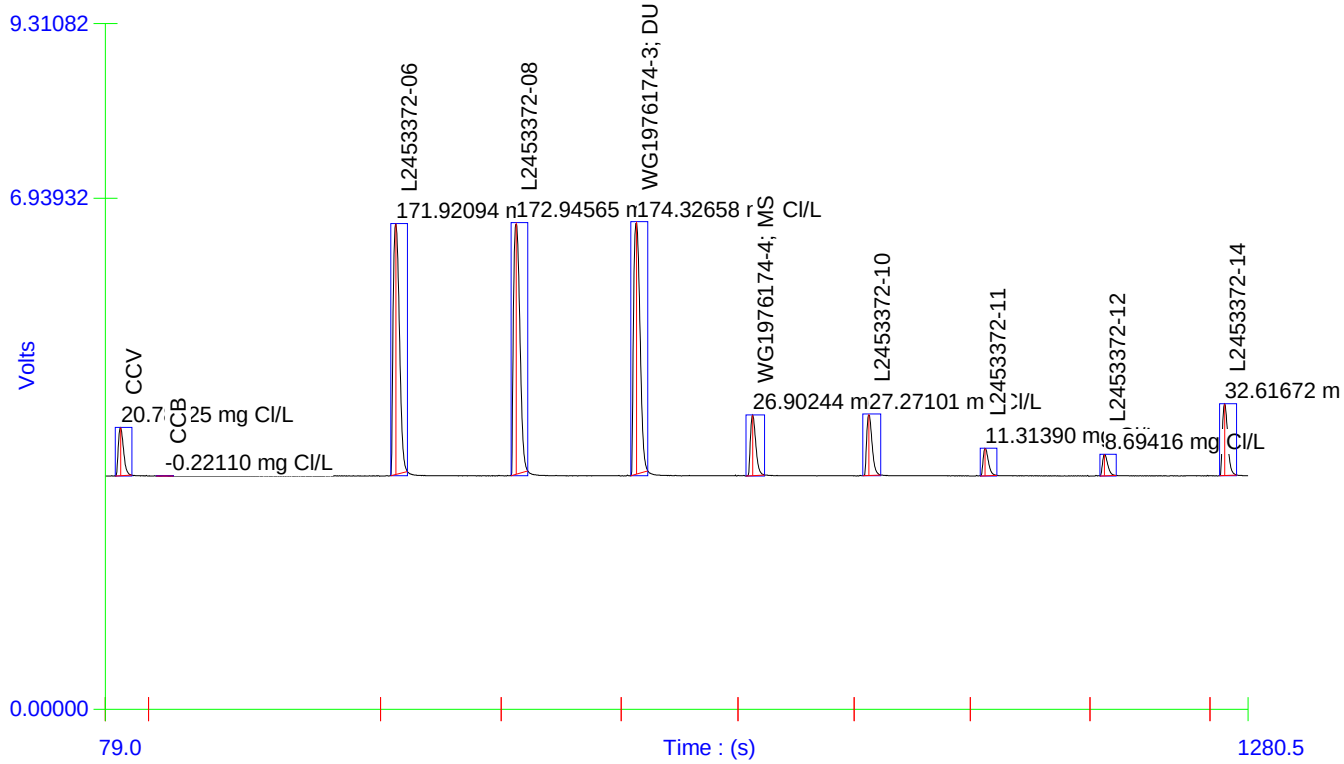
Original Run Filename: OM_9-25-2024_04-25-08PM.OMN Created: 9/25/2024 4:25:08 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_9-25-2024_04-25-08PM.OMN Last Modified: 9/25/2024 6:04:06 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight
CCV	1	S3	20.78625			
	Known Conc:		20.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S9	-0.22110			
	Known Conc:		0.00000			
L2453372-06	1	40	1719.20947	10.00		
L2453372-08	1	41	1729.45654	10.00		
WG1976174-3; DUP	1	42	1743.26587	10.00		
WG1976174-4; MS	1	43	2690.24438	100.00		
L2453372-10	1	44	2727.10083	100.00		
L2453372-11	1	45	1131.38953	100.00		
L2453372-12	1	46	869.41602	100.00		
L2453372-14	1	47	3261.67188	100.00		
L2454352-01	1	48	42.37716			
L2454668-01	1	49	147.86243	10.00		
CCV	1	S3	20.33887			
	Known Conc:		20.00000			
CCB	1	S9	-0.20164			
	Known Conc:		0.00000			
L2454668-02	1	50	3.42949			
L2454668-03	1	51	45.71466			
L2454668-04	1	52	57.73193			
L2454668-05	1	53	78.95607			
L2454853-01	1	54	101.83891			
L2454949-01	1	55	104.26253			
L2454949-02	1	56	193.58319			
L2454949-03	1	57	0.32277			
L2454226-05	1	58	177.13182			
L2454682-01	1	59	34.84551	10.00		
CCV	1	S3	20.60518			
	Known Conc:		20.00000			
CCB	1	S9	-0.50242			
	Known Conc:		0.00000			
WG1976177-3; DUP	1	60	39.43933			
WG1976177-4; MS	1	61	57.07428			
L2454682-02	1	62	21.48224			
L2454682-03	1	63	34.62606			
L2454682-04	1	64	4.64652			
L2454682-05	1	65	35.64824			
L2454682-06	1	66	21.89607			
L2454743-01	1	67	93.58758			
L2454743-02	1	68	122.96810			
L2454743-03	1	69	0.22741			
CCV	1	S3	20.73267			
	Known Conc:		20.00000			
CCB	1	S9	-0.27515			
	Known Conc:		0.00000			
L2454999-01	1	70	36.70106			
L2453297-06	1	19	68.71813			
L2454324-04	1	23	1545.51709	10.00		
L2454324-05	1	24	145.49741	10.00		
L2454922-01	1	25	46.79442			
L2454922-04	1	30	106.29798	10.00		
L2454922-06	1	32	121.17100	10.00		
L2454922-05	1	31	110.39512	10.00		
L2454922-07	1	33	107.10751	10.00		
L2454922-08	1	34	4.02838			
CCV	1	S3	20.51096			

Author: Date : 9/25/2024

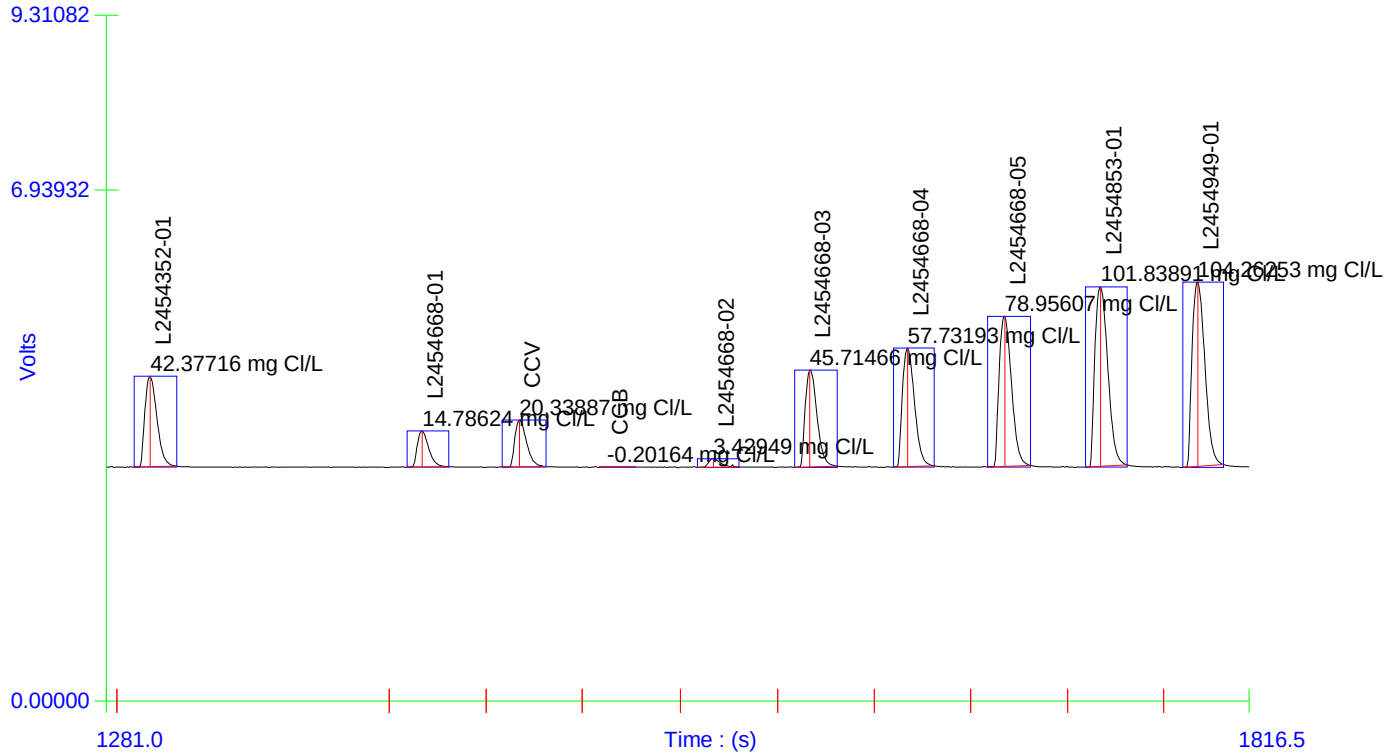
		Known Conc:	20.00000			
CCB	1	S9	-0.24891			
		Known Conc:	0.00000			
L2453372-01	1	36	1972.60486	10.00		
L2453372-02	1	37	1797.82593	10.00		
L2453372-03	1	38	12.41226			
L2453372-06	1	40	2696.08862	100.00		
L2453372-08	1	41	2633.35938	100.00		
WG1976174-3; DUP	1	42	2616.62744	100.00		
L2454853-01	1	54	124.54941	10.00		
L2454949-01	1	55	125.54065	10.00		
L2454949-03	1	57	-0.20465			
L2454949-02	1	56	307.36273	10.00		
CCV	1	S3	20.38527			
		Known Conc:	20.00000			
CCB	1	S9	-0.28210			
		Known Conc:	0.00000			
L2454226-05	1	58	310.36478	10.00		
L2454682-01	1	59	40.56752			
L2454743-01	1	67	112.51367	10.00		
L2454743-03	1	69	-0.11725			
L2454743-02	1	68	163.78813	10.00		
L2454324-04	1	23	2213.77539	100.00		
L2453372-01	1	36	3270.22925	100.00		
L2453372-02	1	37	2781.29858	100.00		
CCV	1	S3	20.59883			
		Known Conc:	20.00000			
CCB	1	S9	-0.29068			
		Known Conc:	0.00000			

Channel 1 (Chloride) - Set: 1 / 8

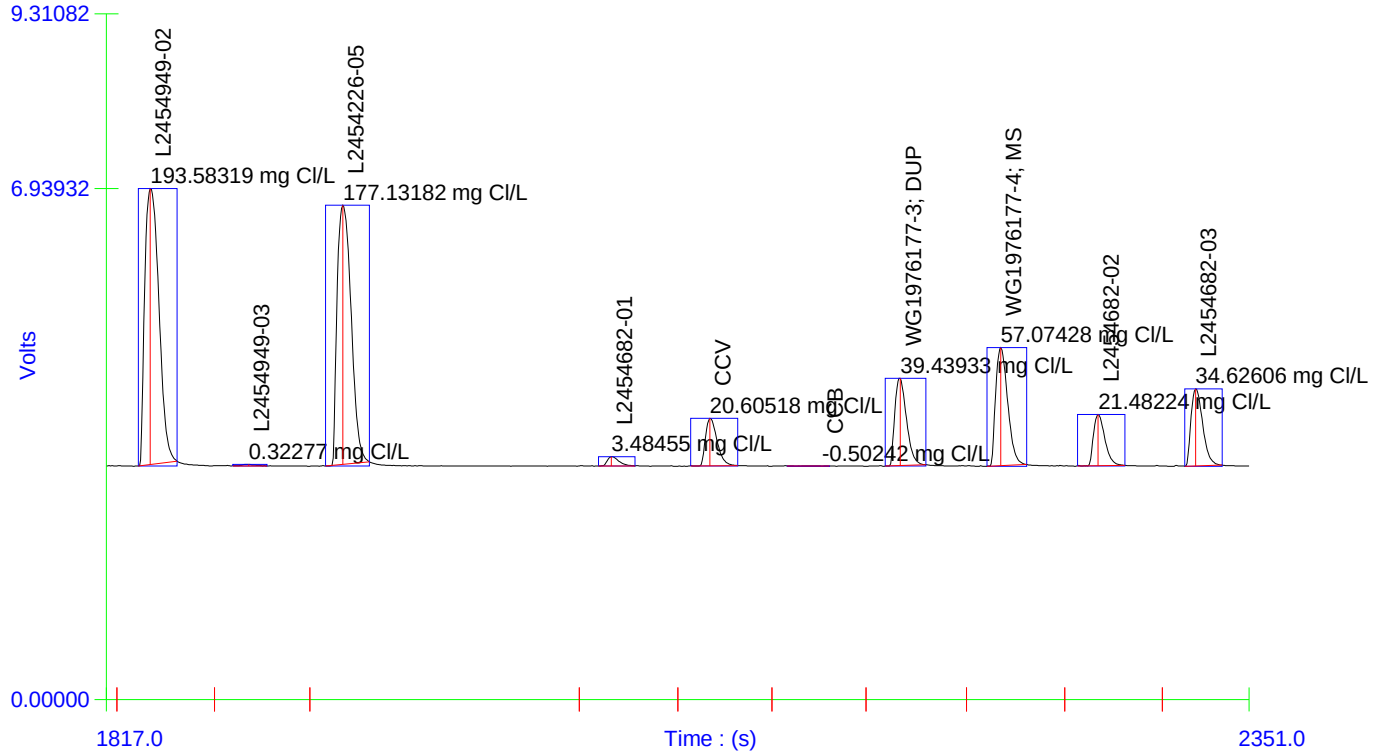


Author: Date : 9/25/2024

Channel 1 (Chloride) - Set: 2 / 8



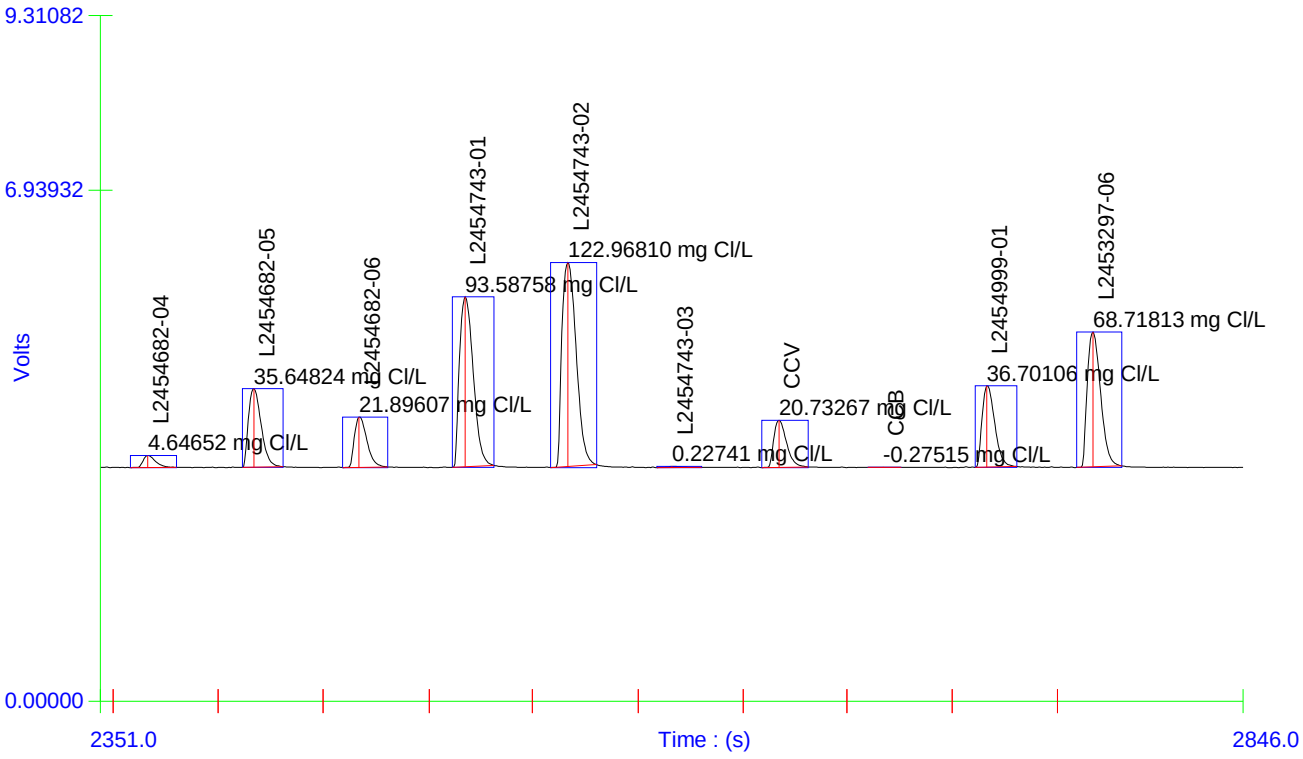
Channel 1 (Chloride) - Set: 3 / 8



Author:

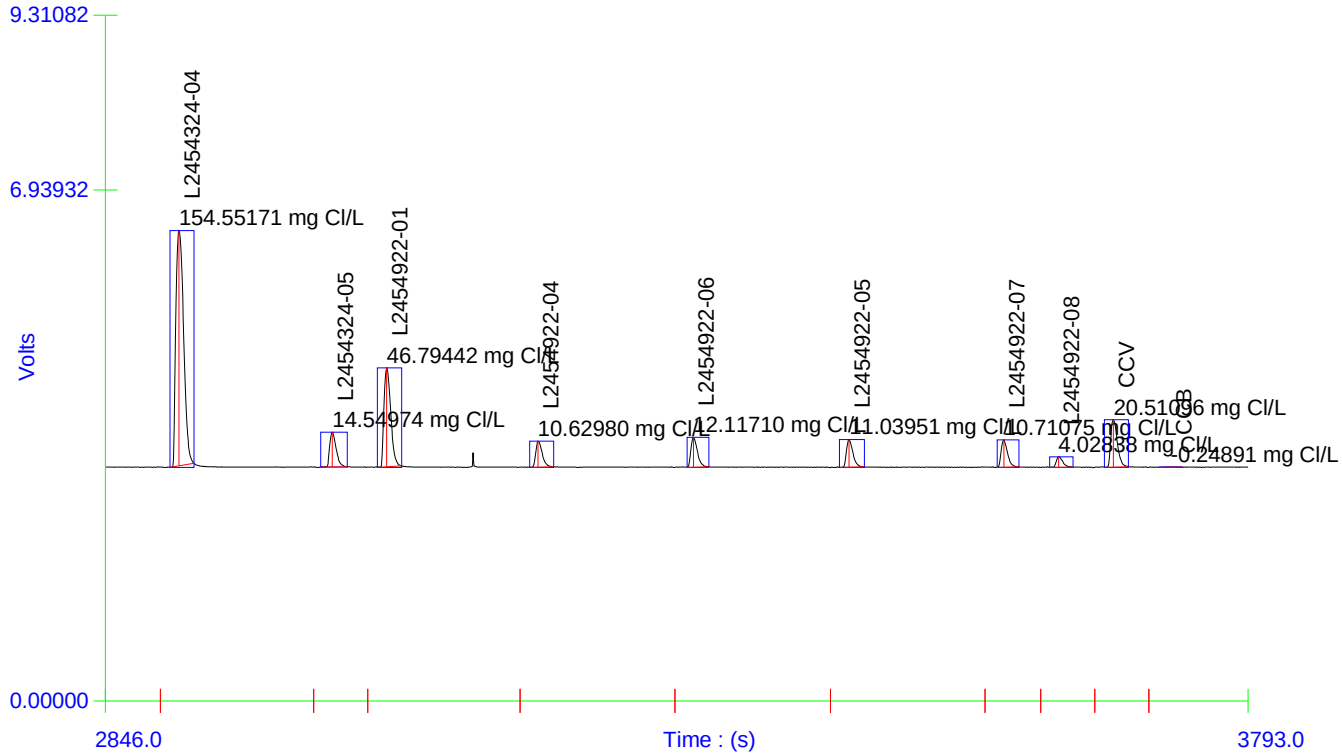
Date : 9/25/2024

Channel 1 (Chloride) - Set: 4 / 8

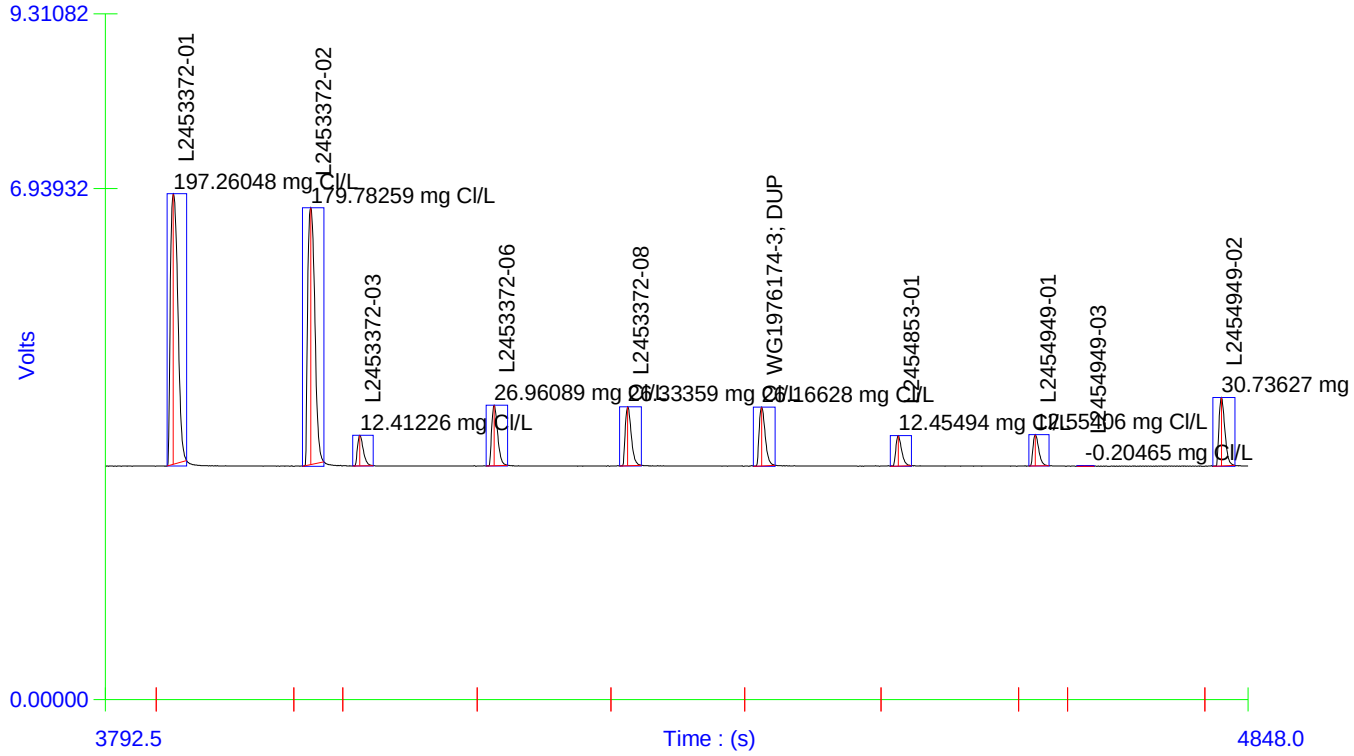


Author: Date : 9/25/2024

Channel 1 (Chloride) - Set: 5 / 8

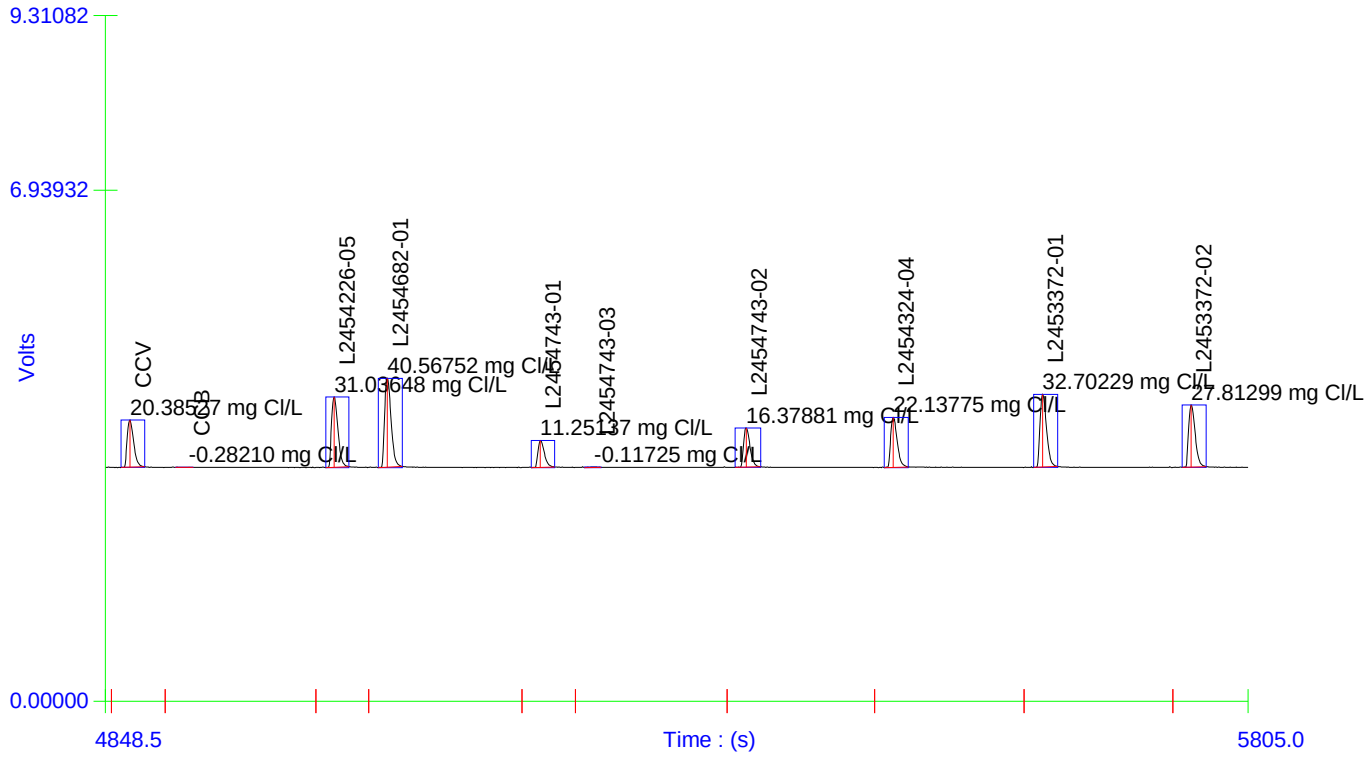


Channel 1 (Chloride) - Set: 6 / 8



Author: Date : 9/25/2024

Channel 1 (Chloride) - Set: 7 / 8



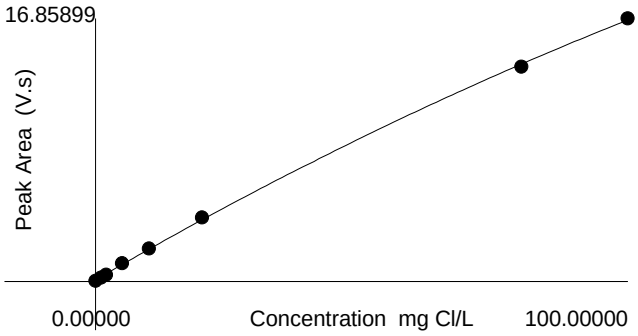
Author: Date : 9/25/2024

Channel 1 (Chloride) - Set: 8 / 8

Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	16.85899	2.40574	0.0	-0.6	100.54659	9/25/2024	3:12:31 PM
2	80.00000	1	13.75806	2.01341	0.0	1.3	79.12409	9/25/2024	3:13:16 PM
3	20.00000	1	4.08135	0.64254	0.0	-3.5	20.56298	9/25/2024	3:14:02 PM
4	10.00000	1	2.10501	0.33171	0.0	-2.5	10.14672	9/25/2024	3:14:47 PM
5	5.00000	1	1.16139	0.17575	0.0	-7.2	5.35815	9/25/2024	3:15:34 PM
6	2.00000	1	0.42366	0.06354	0.0	14.3	1.69750	9/25/2024	3:16:20 PM
7	1.00000	1	0.23703	0.03340	0.0	20.1	0.78304	9/25/2024	3:17:06 PM
8	0.00000	1	0.03142	0.00436			-0.21906	9/25/2024	3:17:51 PM

Figure : 1 (Chloride-CH3)



Area = - 0.00032 * Conc^2 + 0.19871 * Conc + 0.09824
Conc = 0.06704 * Area^2 + 4.85573 * Area - 0.37170
Correlation Coefficient (r) = 0.99986

Weighting : None

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453372-08		
Matrix Spike	: WG1976174-4	**MS Analysis Date**	: 09/25/24 16:37
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Chloride	2600	20	2700	500	Q					58-140	7

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/25/24 17:36
Dup Sample ID	: WG1976174-3	**DUP Analysis Date**	: 09/25/24 17:38

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Chloride	2600	2600	0	7

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1976174-2	**LCS Analysis Date**	: 09/25/24 15:31
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Chloride	**30.0**	**31.0**	**103.**					**90-110**	**7**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chloride	16887-00-6	1	0.2	mg/l	90-110		58-140	7	7	4500CL-E	28 days	1 - Plastic 250ml unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chloride	16887-00-6	10	3.73	mg/kg	89-109	35	62-129	35	35	9251	28 days	1 - Glass 250ml/8oz unpreserved
Chloride	16887-00-6	10	3.73	mg/kg	90-110	35	62-129	35	35	4500CL-E	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Chloride

Aqueous samples:

Compute sample Chloride concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (Chloride)

To compute the final results for aqueous samples, multiply the direct reading by the dilution factor. (also done using software)

Cl mg/L = mg/L direct reading x dilution factor

Sequence Logs

From Page No. ___

1 ICVS
2 30
3 80
4 ICB
5 ~~LES~~ 100ppm 40X
6 WG19761-72-1 BLK
7 -2 LCS
8 WG19761-74-1 BLK
9 -2 LCS
10 WG19761-77-1 BLK
11 -2 LCS
12 53297-01
13 WG19761-72-3 DUP
14 -4 MS
15 53297-02
16 -03
17 -04
18 -05
19 -06
20 54324-01
21 -02
22 -03
23 -04
24 -05
25 54922-01
26 WG19761-72-3 DUP
27 -4 MS
28 54922-02
29 -03
30 -04
31 -05
32 -06
33 -07
34 -08
35 -09
36 53372-01
37 -02
38 53372-03
39 -05
40 -06
41 -08
42 WG19761-74-3 DUP
43 -4 MS
44 53372-10
45 -11
46 -12
47 -14
48 54352-01
49 54668-01
50 -02
51 -03
52 -04
53 -05
54 54853-01
55 54949-01
56 -02
57 -03 FB
58 54226-05
59 54680-01
60 WG19761-77-3 DUP
61 -4 MS
62 54682-02
63 -03
64 -04
65 -05
66 -06
67 54743-01
68 -02
69 -03 FB
70 54999-01

To Page No. ___

Witnessed & Understood by me, Date

Invented by: Date

Recorded by:

Fluoride Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/26/24 05:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1976421.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.03	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976421-1	**Date Collected**	: NA
Client ID	: WG1976421-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/26/24 05:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1976421.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	ND	0.20	0.01	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976421-3	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DRDUP	**Date Received**	: 09/20/24
Sample Location	:	**Date Analyzed**	: 09/26/24 05:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1976421.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.03	0.20	0.02	J

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

F L U O R I D E

Last Change 03/4/13
File Flouride.xlt

Sample Number: _____

Client: _____

Analysis: FLUORIDE
Method: SM 4500F-BC
LCS Concentration (mg/l): 2
Spike Concentration (mg/l): 1

Product: F-4500
Analysis Analyte: Fluoride,
Analysis Date: 9/26/2024 5:55
Technician: DTH
Work group: WG1976421
RL: 0.20 mg/L
Distillation Date: 9/26/2024 2:14

Standard ID mg/L	Log Std-d	Reading mV	Result, Curve	Antilog Result	% Recovery	Calibration Curve	
						Slope	y-intercept
0.2	-0.699	125.7	-0.710	0.1951	98	-59.3560545	83.575
0.5	-0.301	100.9	-0.292	0.5106	102		
1.0	0.000	83.2	0.006	1.0147	101	Correlation	Coefficient
10	1.000	24.5	0.995	9.892	99	0.9999177	

	Sample number	Sample Volume (ml)	Distill Volume (ml)	Flask	Reagent	Dilution Factor	Meter Reading	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	50	50		YES	1.00	0	1.00	0.00	Recovery
	ICV	50	50		YES	1.00	0.985	1.00	0.99	99%
SAMP	L2454352-01	50	50		YES	1.00	0.027	1.00	0.03	
	CCV	50	50		YES	1.00	0.976	1.00	0.98	
	CCB	50	50		YES	1.00	0	1.00	0.00	
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
BLANK	WG1976421-1	50	50		YES	1.00	0.00581	1.00	0.01	
DUP	WG1976421-3	50	50		YES	1.00	0.0269	1.00	0.03	L2454352-01

	Sample number	sample volume	Distill volume (ml)	Flask	Reagent	Sample Result mg/l	Meter Reading	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG1976421-4	50	50		YES	.03	0.898	1	0.90	87
LCS	WG1976421-2	50	50		YES		1.82	2	1.82	91

last sample

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: SCDOH-DR	**Matrix**	: WATER
Lab Sample ID	: L2454352-01		
Matrix Spike	: WG1976421-4	**MS Analysis Date**	: 09/26/24 05:55
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Fluoride	0.03J	1	0.90	90					69-124	13

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: SCDOH-DR	**Matrix**	: WATER
Lab Sample ID	: L2454352-01	**Analysis Date**	: 09/26/24 05:55
Dup Sample ID	: WG1976421-3	**DUP Analysis Date**	: 09/26/24 05:55

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Fluoride	0.03J	0.03J	NC	13

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1976421-2	**LCS Analysis Date**	: 09/26/24 05:55
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Fluoride	**2.00**	**1.80**	**91.**					**78-120**	**13**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Fluoride	16984-48-8	0.2	0.017	mg/l	78-120		69-124	13	13	4500F-BC	28 days	1 - Plastic 500ml unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Fluoride	16984-48-8	10	1.04	mg/kg	80-120		70-130	20	20	4500F-BC	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Fluoride

When the volume of the distillate is the same as the volume of the sample used, the direct determination of Fluoride concentration is the instrument's result.

However, when analyzing soil samples or high level samples requiring a dilution, the following equations apply:

For liquids:

Fluoride, mg/L = (mg F-/L) X (Volume of Distillate, mL)/ Volume of Sample, mL

For solids:

Fluoride, mg/Kg = (mg F-/L) X (Volume of Distillate, mL)/Weight of Sample, gm

To calculate final result for soil samples based on dry weight, multiply final result on 100 and divide on %TS (in %)

Sample Preparation

8 Project No. _____

onfidential Book No. _____ TITLI

rom Page No. _____

WG1976421

Analyst: DTH

Date & Time: 04/06/24 5:55

ICV:F 080224

LCS:F 080224

Spike:F 092424

Curve:WC- 3253

TISAB III: R- 4215

STD	Mv
0.2	125.7
0.5	100.9
1.0	83.2
10.0	24.5

Sample	Volume	Final Volume	Meter
ICV	50mL	50mL	0.985
ICB			0.00
Blank			0.00581
LCS			1.82
54352-01			0.0270
-DUP01			0.0269
-MS01			0.896
CCV			0.976
CCB			0.00

To Page No. ___

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Tube	Sample	Volume	Final Volume	Comments
1	Blank		50mL	DTH 9/25/24 00:26
2	LCS			1.0mL Fo71524-100ppm
3	54206-01	5X (10mL↑50mL)		Dilutions Due to
4	02			Limited Volume
5	03			50mL screening
6	04			50mL parent
7	06			50mL Dup
8	07			50mL MS
9	08	↓		200mL total needed
10	09	2X (25mL↑50mL)		for QC Sample
11	Dp09			
12	MS09	↓		0.5mL Fo71524-100ppm
13	10	5X (10mL↑50mL)		
14	11			
15	12	↓		
20	Blank			
19	LCS			1.0mL Fo71524-100ppm
18	54206-05	20X (2.5mL↑50mL)		
17	-Dp05			
16	-MS05	↓	↓	0.5mL Fo71524 100ppm

Tube	Sample	Volume	Final Volume	Comments
				DTH 9/26/24 2:14
1	Blank	50mL	50mL	
2	LCS			1.0mL Fo92424-100ppm
3	54352-01			
4	-Dp01			
5	-MS01			0.5mL Fo92424-100ppm
7	Blank	↓	↓	

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Phosphates Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/26/24 18:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS092624-WG1976736	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.012	0.031	0.012	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976736-1	**Date Collected**	: NA
Client ID	: WG1976736-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/26/24 17:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS092624-WG1976736	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976736-3	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DRDUP	**Date Received**	: 09/20/24
Sample Location	:	**Date Analyzed**	: 09/26/24 18:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS092624-WG1976736	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.015	0.031	0.012	J

Sample Raw Data

Logo

AQ-2 Tray Report

Serial Number:	090856
Report Requested By:	MFlaherty
Date & Time:	26-Sep-2024 19:11:47
Tray Number:	1
Tray Name:	WG1976734,36,38

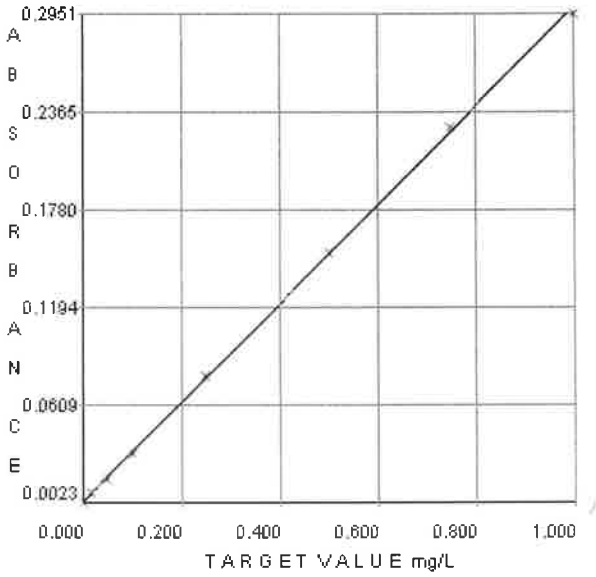
T-Phos 1

Calibration Chart

Type	Observed	Calculated	Target	% Error
S1	0.0023	0.000	0.000	
S90	0.0077	0.018	0.020	-7.80
S91	0.0158	0.046	0.050	-8.15
S92	0.0311	0.098	0.100	-2.46
S93	0.0773	0.254	0.250	1.50
S94	0.1514	0.504	0.500	0.82
S95	0.2271	0.760	0.750	1.36
S96	0.2951	0.990	1.000	-1.01
S0	0.0021	-0.000	0.000	

Polynomial Order:	1
Correlation Coefficient:	0.9999
Carryover(%):	-0.1
Calibration Equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured Absorbance
a =:	-7.553647E-003
b =:	3.380179E+000
Date & Time:	26-Sep-2024 11:15:36

Calibration Graph



Reagents

Name	Batch	Prepared By	Expiry Date
TP color	092424-tp color	Maeve Flaherty	15-Oct-2024 22:00:00
TP ascorbic	091824-aa	Maeve Flaherty	03-Oct-2024 22:00:00

Test Results

Cup	Type	ID	Result	Units	Raw Data	Test Dil.	Cup Dil.	User	Time/Date
2	ICV	ICV	0.479	mg/L	0.144063			MEF	26-Sep-2024 17:36:22
3	ICB	ICB	-0.003	mg/L	0.001203			MEF	26-Sep-2024 17:37:28
4	U1	WG1976734-1	-0.003ELL	mg/L	0.001380			MEF	26-Sep-2024 17:38:35
5	U2	WG1976734-2	0.474	mg/L	0.142486			MEF	26-Sep-2024 17:39:42
6	U3	L2454320-01-5	9.619	mg/L	0.116063	x5.0000	x5.0000	MEF	26-Sep-2024 18:26:47
6	U3	L2454320-01-5	8.114	mg/L	0.482323		x5.0000	MEF	26-Sep-2024 17:40:49
7	U4	L2454338-01	12.214	mg/L	0.146775	x25.0000		MEF	26-Sep-2024 18:45:04
7	U4	L2454338-01	10.273	mg/L	0.610069	x5.0000		MEF	26-Sep-2024 18:27:40
7	U4	L2454338-01	3.045	mg/L	0.903090			MEF	26-Sep-2024 17:41:56
8	U5	L2454514-02	0.520	mg/L	0.155962			MEF	26-Sep-2024 17:43:03
9	U6	L2454521-01	0.053	mg/L	0.017959			MEF	26-Sep-2024 17:44:10
10	U7	L2454521-02	0.077	mg/L	0.024886			MEF	26-Sep-2024 17:45:17
	CCV	C C V	0.486	mg/L	0.145919			MEF	26-Sep-2024 17:46:24

	CCB	C C B	-0.001	mg/L	0.001865		MEF	26-Sep-2024 17:47:34
11	U8	WG1976734-3	0.075	mg/L	0.024507		MEF	26-Sep-2024 17:48:43
12	U9	WG1976734-4	0.583	mg/L	0.174781		MEF	26-Sep-2024 17:49:51
13	U10	L2454521-03	0.129	mg/L	0.040281		MEF	26-Sep-2024 17:50:58
14	U11	L2454521-04	0.051	mg/L	0.017320		MEF	26-Sep-2024 17:52:05
15	U12	L2454521-05	0.071	mg/L	0.023266		MEF	26-Sep-2024 17:53:13
16	U13	L2454521-06	0.070	mg/L	0.022892		MEF	26-Sep-2024 17:54:20
17	U14	L2454538-01-5	0.325	mg/L	0.021451	x5.0000	MEF	26-Sep-2024 17:55:27
18	U15	L2454539-01-2	0.298	mg/L	0.046328	x2.0000	MEF	26-Sep-2024 17:56:35
19	U16	L2454541-01	0.200	mg/L	0.061431		MEF	26-Sep-2024 17:57:42
20	U17	L2454654-02	0.011	mg/L	0.005565		MEF	26-Sep-2024 17:58:50
	CCV	C C V	0.485	mg/L	0.145597		MEF	26-Sep-2024 17:59:59
	CCB	C C B	-0.002	mg/L	0.001639		MEF	26-Sep-2024 18:01:09
21	U18	L2454352-01O	0.004	mg/L	0.003293		MEF	26-Sep-2024 18:02:04
22	U19	WG1976736-3O	0.005	mg/L	0.003756		MEF	26-Sep-2024 18:03:06
23	U20	WG1976736-4O	0.509	mg/L	0.152834		MEF	26-Sep-2024 18:04:00
24	U21	L2454201-01	0.094	mg/L	0.029956		MEF	26-Sep-2024 18:04:53
25	U22	L2454201-02-5	2.294	mg/L	0.137996	x5.0000	MEF	26-Sep-2024 18:05:46
26	U23	L2454201-03	0.268	mg/L	0.081448		MEF	26-Sep-2024 18:06:40
27	U24	WG1976738-3	0.266	mg/L	0.080781		MEF	26-Sep-2024 18:07:33
28	U25	WG1976738-4	0.774	mg/L	0.231290		MEF	26-Sep-2024 18:08:27
29	U26	L2454201-04-2	0.515	mg/L	0.078389	x2.0000	MEF	26-Sep-2024 18:09:20
	CCV	C C V	0.484	mg/L	0.145550		MEF	26-Sep-2024 18:10:14
	CCB	C C B	-0.002	mg/L	0.001615		MEF	26-Sep-2024 18:11:07
	CCV	CCV	0.480	mg/L	0.144236			26-Sep-2024 18:25:00
	CCB	CCB	-0.002	mg/L	0.001743			26-Sep-2024 18:25:53
	CCV	CCV	0.478	mg/L	0.143596			26-Sep-2024 18:28:34
	CCB	CCB	-0.002	mg/L	0.001720			26-Sep-2024 18:29:28
	CCV	CCV	0.487	mg/L	0.146271			26-Sep-2024 18:43:14
	CCB	CCB	-0.002	mg/L	0.001766			26-Sep-2024 18:44:09
	CCV	CCV	0.486	mg/L	0.145966			26-Sep-2024 18:45:58
	CCB	CCB	-0.002	mg/L	0.001542			26-Sep-2024 18:46:53

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: SCDOH-DR	**Matrix**	: WATER
Lab Sample ID	: L2454352-01		
Matrix Spike	: WG1976736-4	**MS Analysis Date**	: 09/26/24 18:04
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Phosphate, Total	0.012J	1.53	1.56	102					80-120	15

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: SCDOH-DR	**Matrix**	: WATER
Lab Sample ID	: L2454352-01	**Analysis Date**	: 09/26/24 18:02
Dup Sample ID	: WG1976736-3	**DUP Analysis Date**	: 09/26/24 18:03

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	0.012J	0.015J	NC	15

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1976736-2	**LCS Analysis Date**	: 09/26/24 17:39
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Phosphate, Total	**1.53**	**1.46**	**95.**					**84-118**	**15**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	0.01	0.004	mg/l	80-120		75-125	20	20	4500P-E	28 days	1 - Plastic 500ml H2SO4 preserved

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

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File: PM11468-1
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WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	5	1.67	mg/kg	52-148	20	75-125	20	20	4500P-E	28 days	1 - Glass 250ml/8oz unpreserved

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

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Created By: Jason Hebert
File: PM11467-1
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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.005	0.001	mg/l	90-110		80-120	20	20	4500P-E	48 hours	1 - Plastic 500ml unpreserved

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

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Created By: Jason Hebert
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WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.05	0.05	mg/kg						4500P-E	48 hours	1 - Glass 250ml/8oz unpreserved

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

Calculations of TPhosphorus

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve. All calculations are done by SEAL (segmant flow spectrometer).

$$\text{Mg TPhosphorus/L} = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Wet Chemistry
By
IC Methods

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2454352-01	**Date Collected**	: 09/20/24 09:00
Client ID	: SCDOH-DR	**Date Received**	: 09/20/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 18:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1976212-24	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976224-1	**Date Collected**	: NA
Client ID	: WG1976224-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/25/24 13:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1976224	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976224-4	**Date Collected**	: 09/24/24 09:00
Client ID	: WG1976224-4 DUP	**Date Received**	: 09/24/24
Sample Location	:	**Date Analyzed**	: 09/25/24 15:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1976212-24	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

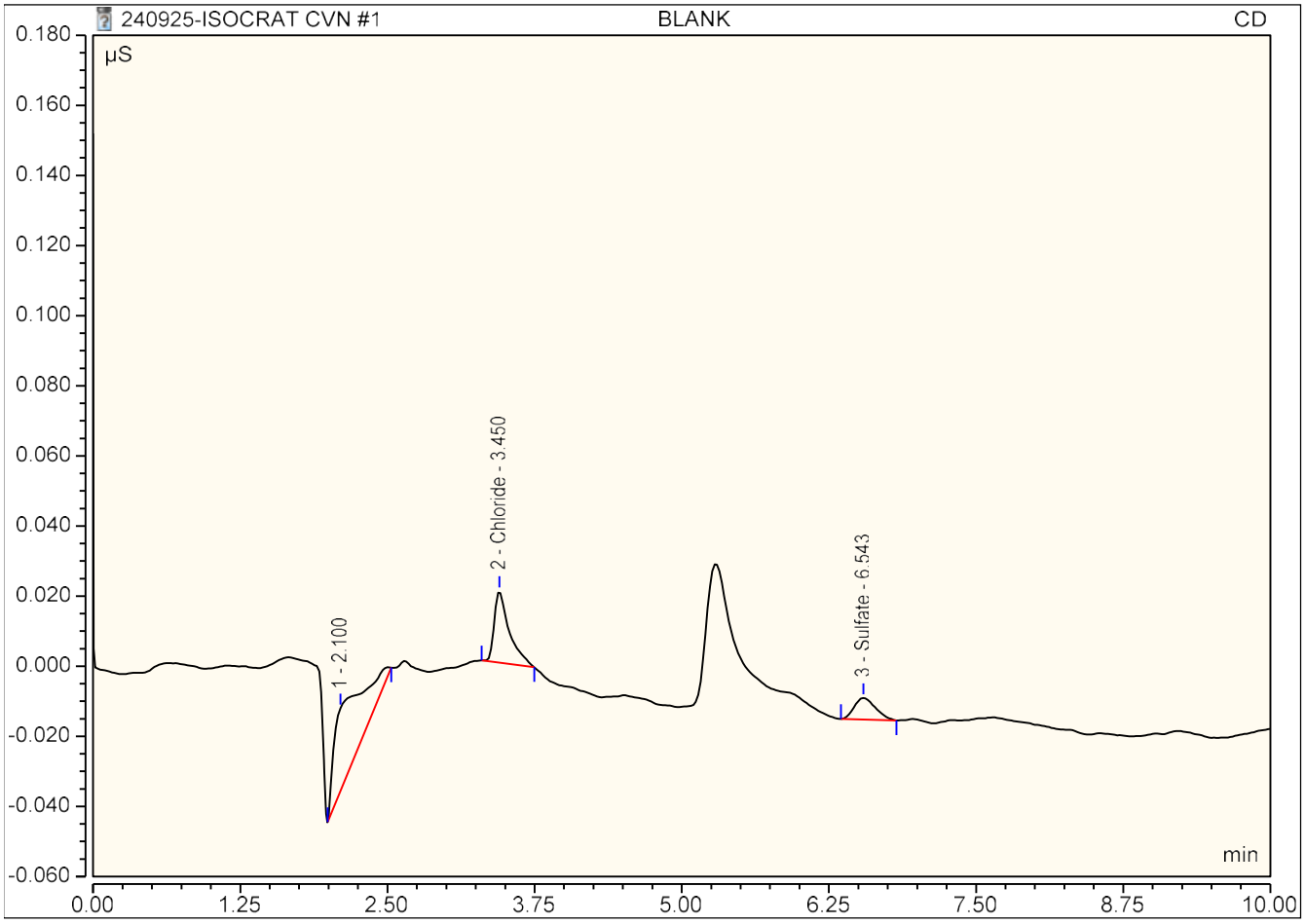
		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Sample Raw Data

Peak Integration Report

Sample Name:	**BLANK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:08**	*Run Time:*	**10.00**

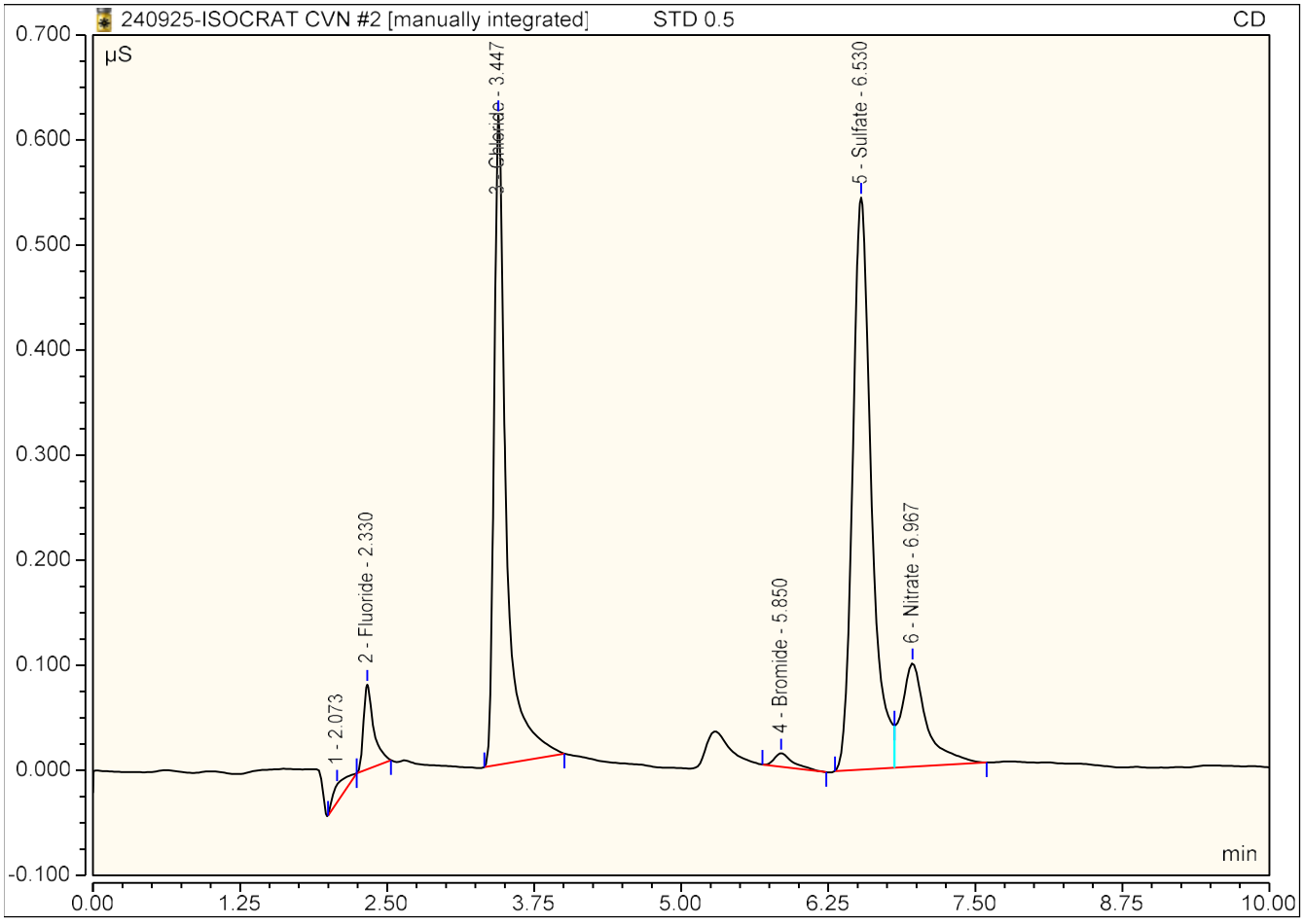
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.45	**Chloride**	BMB	0.003	0.020	0.2129
3	6.54	**Sulfate**	BMB	0.001	0.006	0.2810
TOTAL:				0.00	0.03	0.49



Peak Integration Report

Sample Name:	**STD 0.5**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:20**	*Run Time:*	**10.00**

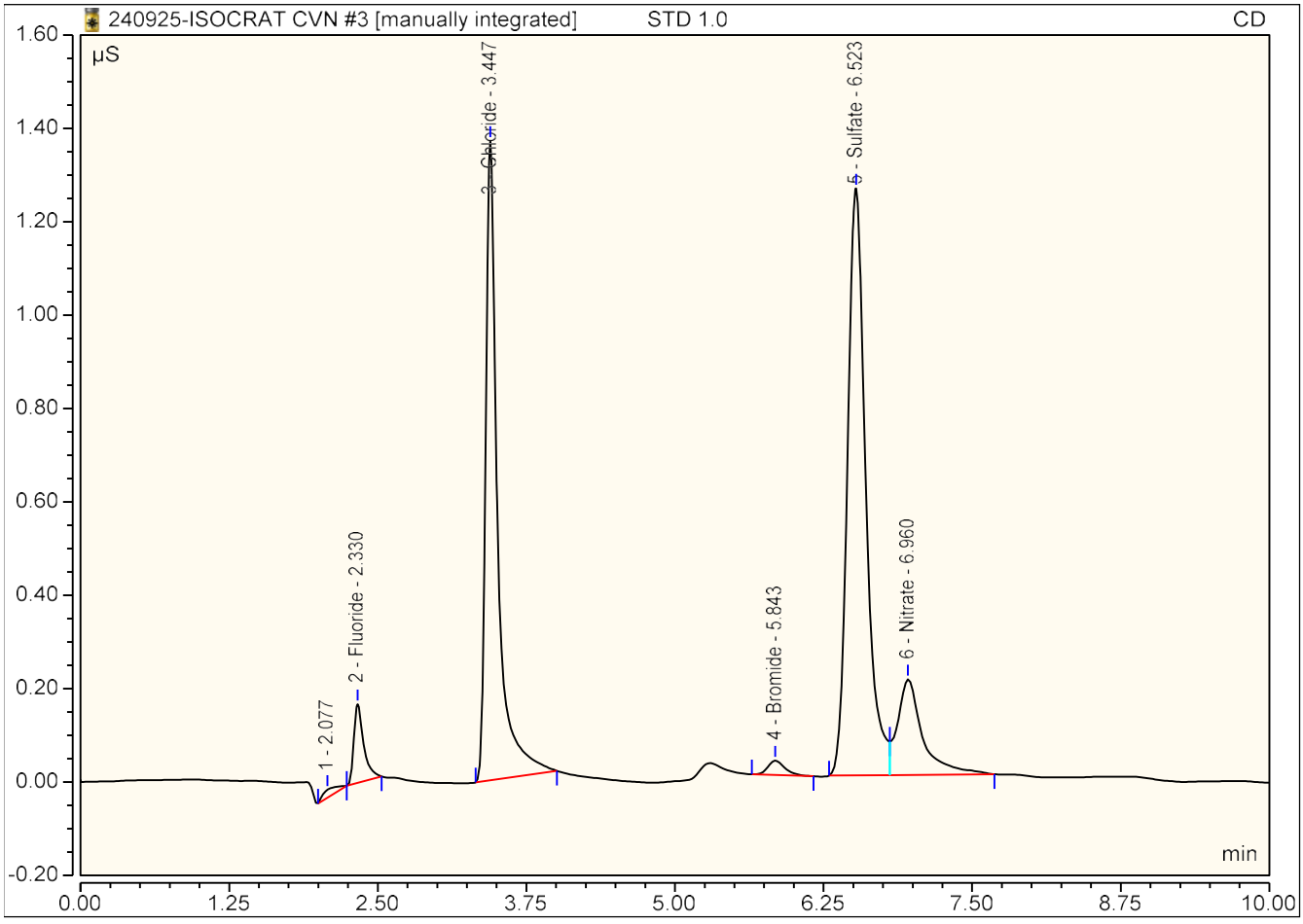
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.008	0.081	0.0592
3	3.45	**Chloride**	BMB*	0.074	0.618	0.3873
4	5.85	**Bromide**	BMB	0.002	0.013	0.0525
5	6.53	**Sulfate**	BM *	0.100	0.545	0.6237
6	6.97	**Nitrate**	MB*	0.024	0.098	0.0442
TOTAL:				0.21	1.35	1.17



Peak Integration Report

Sample Name:	**STD 1.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:33**	*Run Time:*	**10.00**

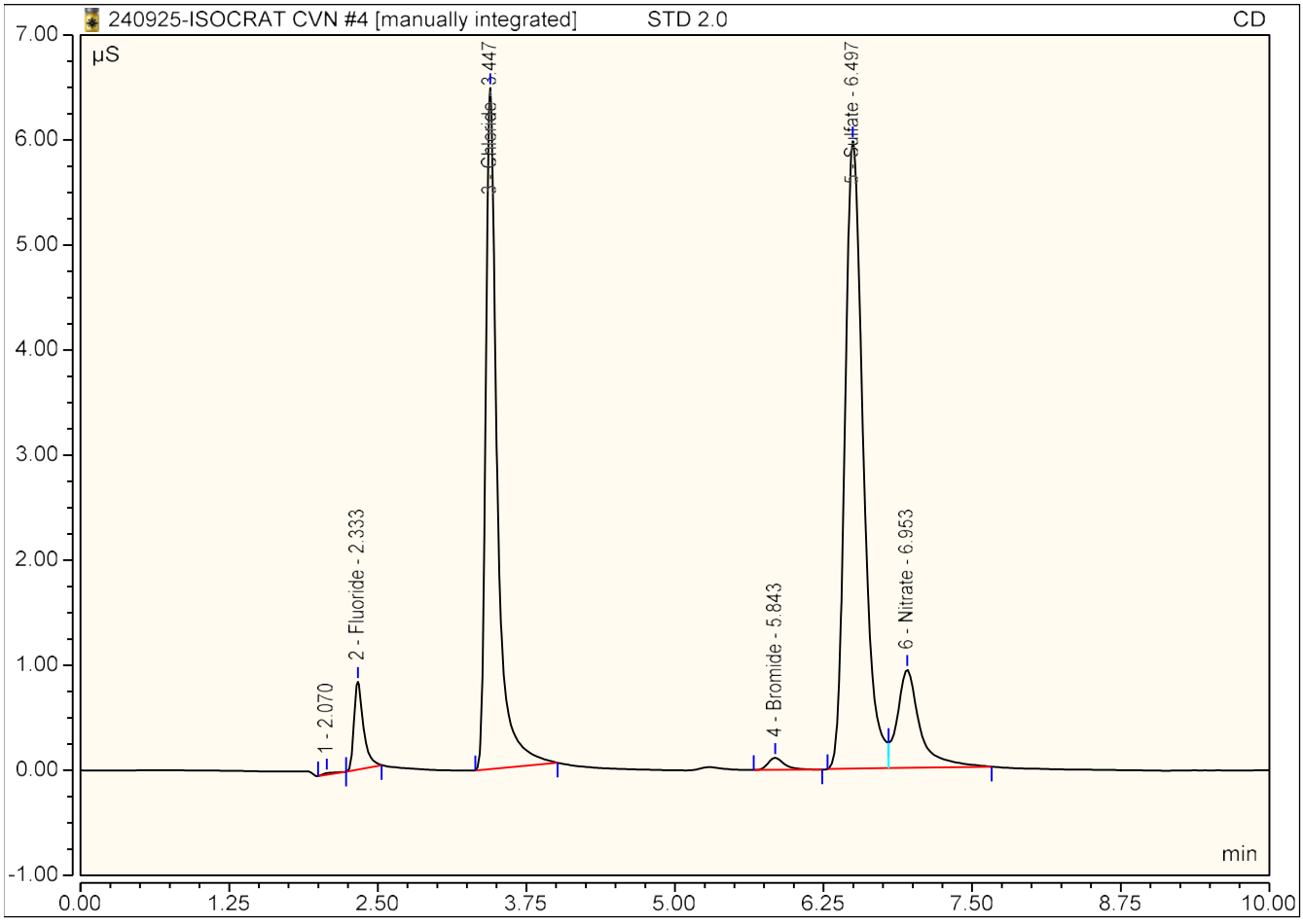
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.016	0.169	0.0738
3	3.45	**Chloride**	BMB*	0.159	1.370	0.5947
4	5.84	**Bromide**	BMB	0.005	0.031	0.0753
5	6.52	**Sulfate**	BM *	0.223	1.257	1.0491
6	6.96	**Nitrate**	MB*	0.050	0.205	0.0646
TOTAL:				0.45	3.03	1.86



Peak Integration Report

Sample Name:	**STD 2.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:45**	*Run Time:*	**10.00**

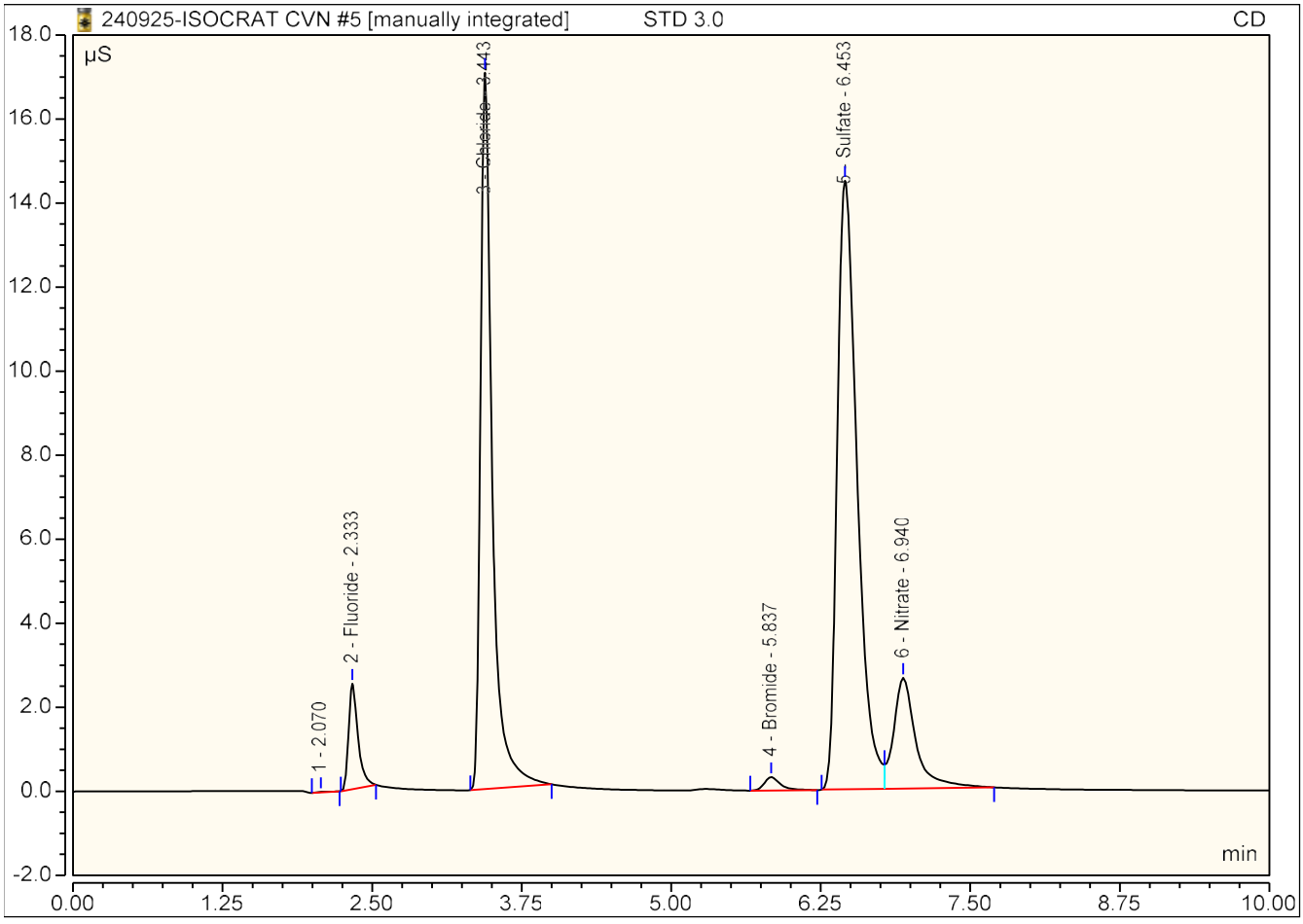
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.077	0.836	0.1840
3	3.45	**Chloride**	BMB*	0.734	6.483	1.9971
4	5.84	**Bromide**	BMB	0.019	0.116	0.1890
5	6.50	**Sulfate**	BM *	1.064	5.973	3.9561
6	6.95	**Nitrate**	MB*	0.206	0.936	0.1868
TOTAL:				2.10	14.34	6.51



Peak Integration Report

Sample Name:	**STD 3.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:57**	*Run Time:*	**10.00**

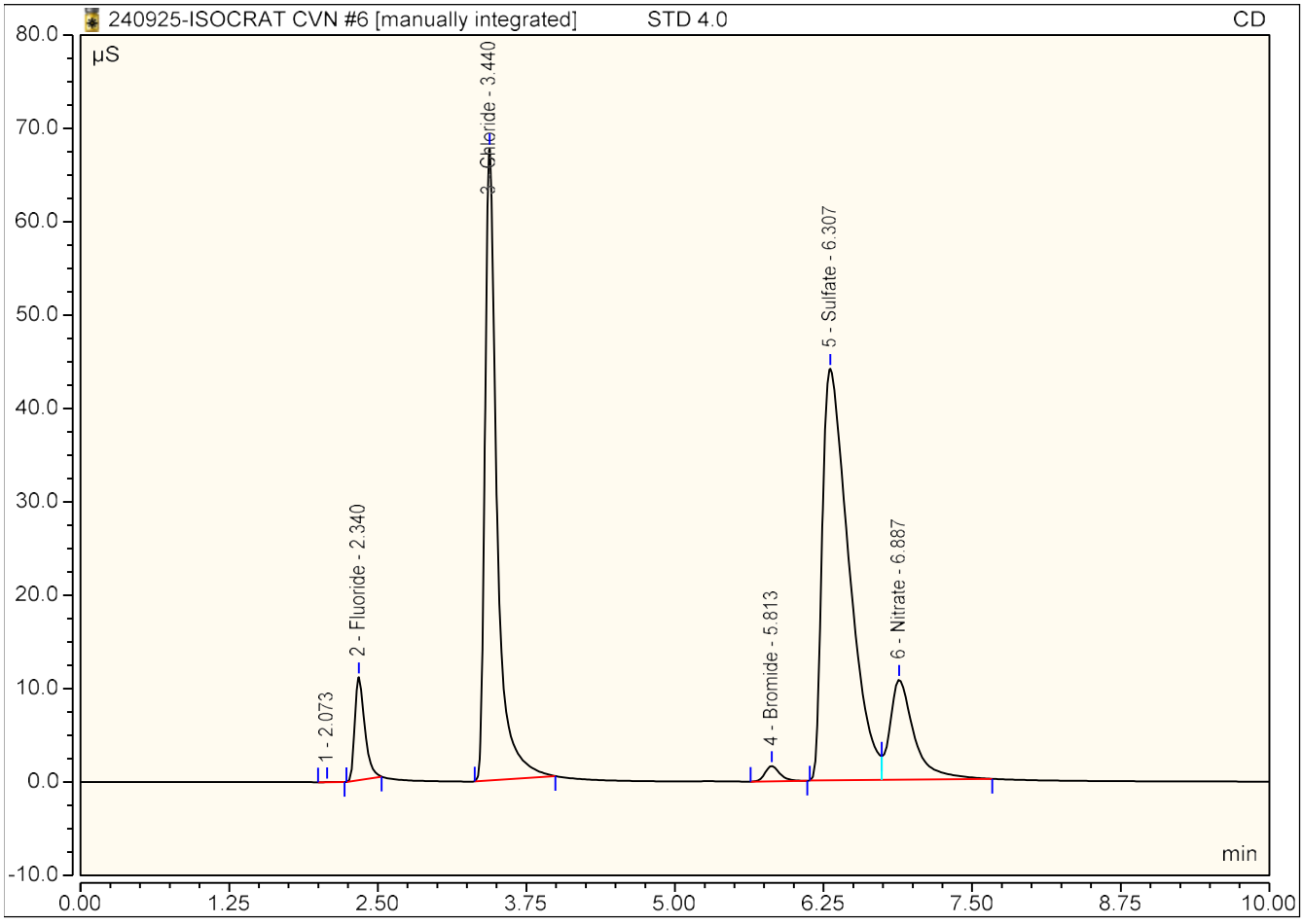
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.228	2.511	0.4607
3	3.44	**Chloride**	BMB*	1.937	17.049	4.9336
4	5.84	**Bromide**	BMB	0.050	0.317	0.4440
5	6.45	**Sulfate**	BM *	2.793	14.483	9.9320
6	6.94	**Nitrate**	MB*	0.570	2.634	0.4717
TOTAL:				5.58	36.99	16.24



Peak Integration Report

Sample Name:	**STD 4.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 17:09**	*Run Time:*	**10.00**

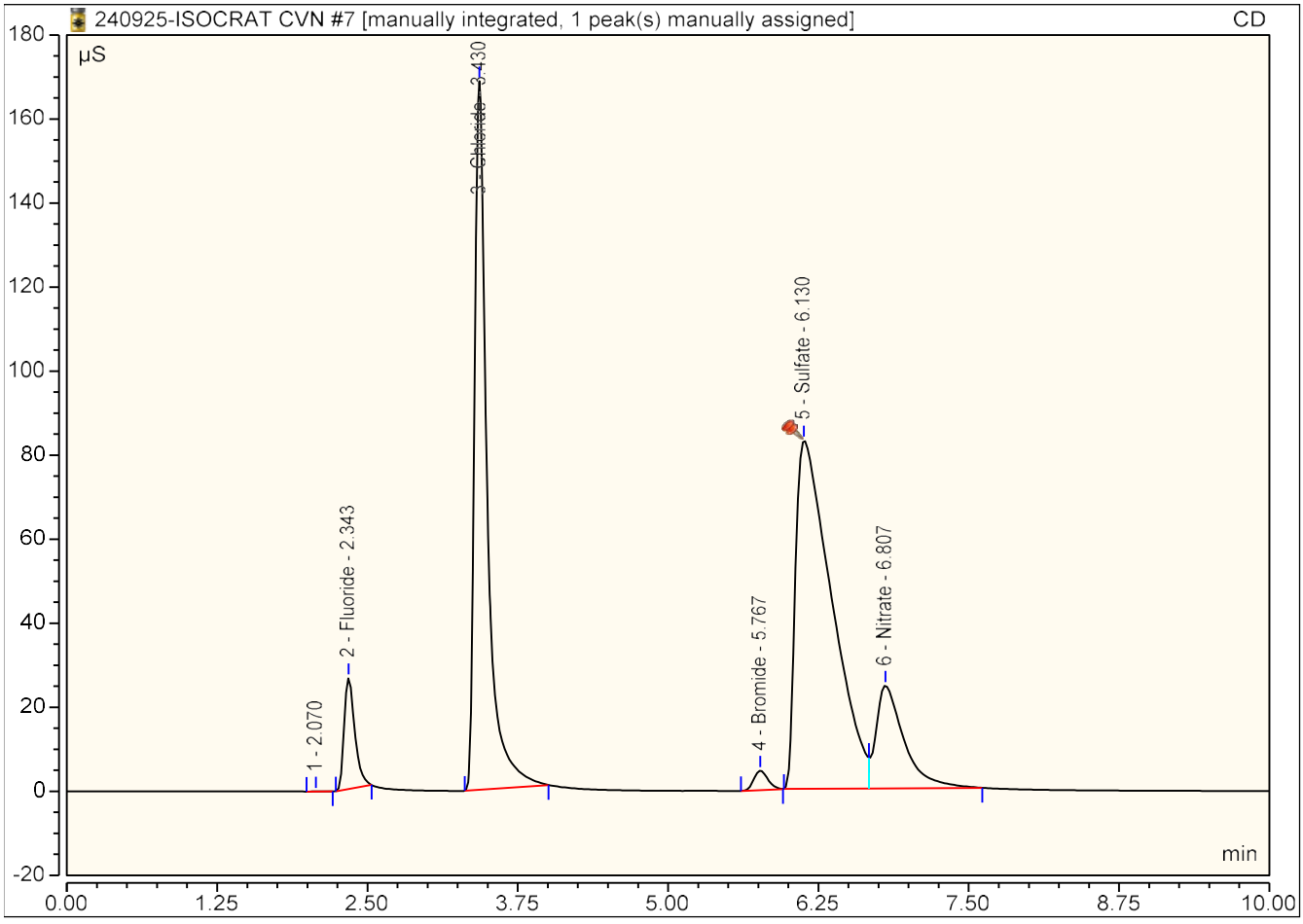
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	1.066	11.023	1.9885
3	3.44	**Chloride**	BMB*	7.993	67.701	19.7203
4	5.81	**Bromide**	BMB	0.239	1.650	2.0141
5	6.31	**Sulfate**	BM *	11.456	44.080	39.8861
6	6.89	**Nitrate**	MB*	2.529	10.726	2.0078
TOTAL:				23.28	135.18	65.62



Peak Integration Report

Sample Name:	**STD 5.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 17:21**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	2.722	26.414	5.0087
3	3.43	**Chloride**	BMB*	20.443	168.608	50.1170
4	5.77	**Bromide**	BMB	0.629	4.639	5.2575
5	6.13	**Sulfate**	BM *^	28.857	82.915	100.0530
6	6.81	**Nitrate**	MB*	6.605	24.427	5.2021
TOTAL:				59.26	307.00	165.64



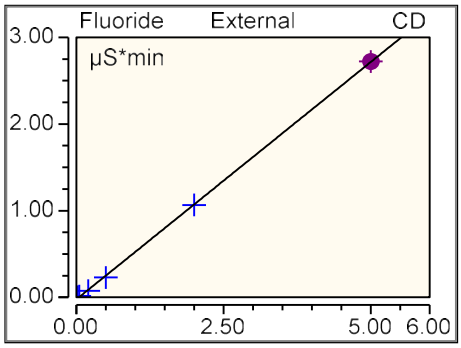
Calibration Batch Report

Sequence:	**240925-ISOCRAT CVN**	*Injection Volume:*	**25.00**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 17:21**	*Run Time:*	**10**

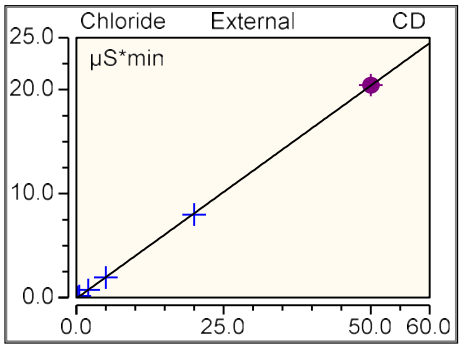
Calibration Summary

Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
Fluoride	Area	in, WithOffse	6.000	-0.024	0.548	0.000	99.9805
Chloride	Area	in, WithOffse	6.000	-0.084	0.410	0.000	99.9935
Bromide	Area	in, WithOffse	5.000	-0.004	0.120	0.000	99.8241
Sulfate	Area	in, WithOffse	6.000	-0.080	0.289	0.000	99.9995
Nitrate	Area	in, WithOffse	5.000	-0.032	1.276	0.000	99.9412
		AVERAGE:		-0.0449	0.5287	0.0000	99.9478

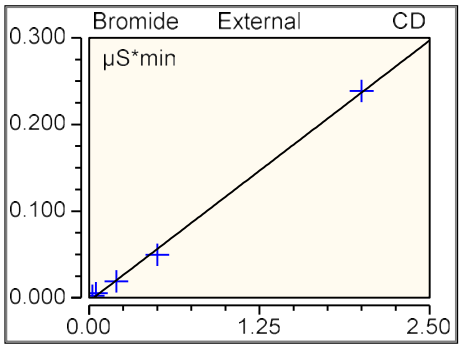
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Fluoride	Fluoride	Fluoride	Fluoride
STD 0.5	2.330	0.0081	0.081	0.059
STD 1.0	2.330	0.0161	0.169	0.074
STD 2.0	2.333	0.0765	0.836	0.184
STD 3.0	2.333	0.2282	2.511	0.461
STD 4.0	2.340	1.0658	11.023	1.989
STD 5.0	2.343	2.7217	26.414	5.009
Average	2.335			
Rel. Std. Dev.	0.235 %			



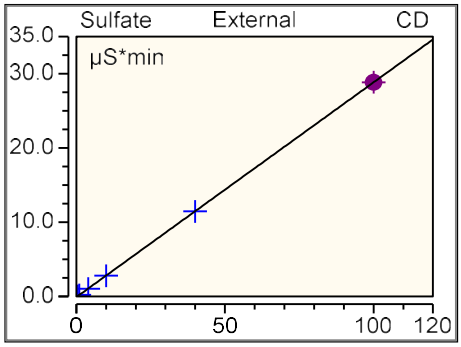
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Chloride	Chloride	Chloride	Chloride
STD 0.5	3.447	0.0744	0.618	0.387
STD 1.0	3.447	0.1594	1.370	0.595
STD 2.0	3.447	0.7338	6.483	1.997
STD 3.0	3.443	1.9365	17.049	4.934
STD 4.0	3.440	7.9930	67.701	19.720
STD 5.0	3.430	20.4430	168.608	50.117
Average	3.442			
Rel. Std. Dev.	0.190 %			



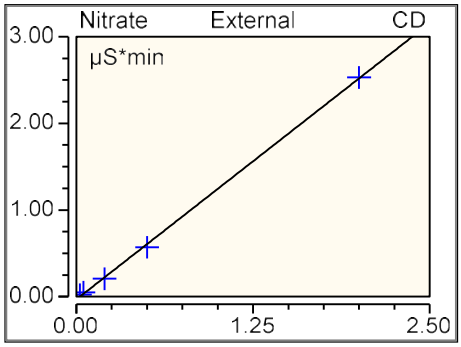
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Bromide	Bromide	Bromide	Bromide
STD 0.5	5.850	0.0024	0.013	0.053
STD 1.0	5.843	0.0051	0.031	0.075
STD 2.0	5.843	0.0188	0.116	0.189
STD 3.0	5.837	0.0495	0.317	0.444
STD 4.0	5.813	0.2386	1.650	2.014
STD 5.0	5.767	0.6291	4.639	5.257
Average	5.826			
Rel. Std. Dev.	0.541 %			



Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Sulfate	Sulfate	Sulfate	Sulfate
STD 0.5	6.530	0.1004	0.545	0.624
STD 1.0	6.523	0.2234	1.257	1.049
STD 2.0	6.497	1.0642	5.973	3.956
STD 3.0	6.453	2.7926	14.483	9.932
STD 4.0	6.307	11.4558	44.080	39.886
STD 5.0	6.130	28.8572	82.915	100.053
Average	6.407			
Rel. Std. Dev.	2.474 %			



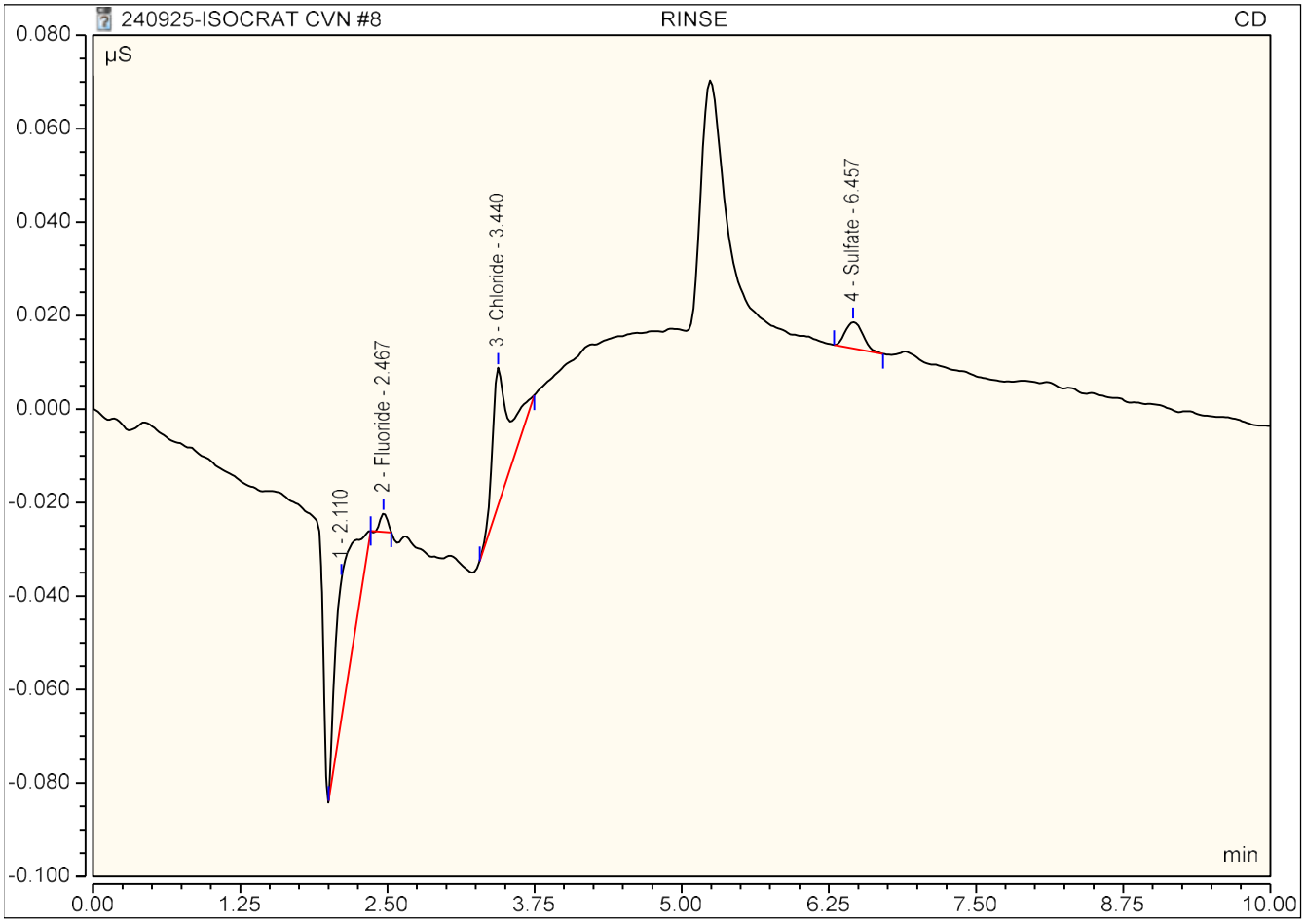
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Nitrate	Nitrate	Nitrate	Nitrate
STD 0.5	6.967	0.0242	0.098	0.044
STD 1.0	6.960	0.0502	0.205	0.065
STD 2.0	6.953	0.2061	0.936	0.187
STD 3.0	6.940	0.5696	2.634	0.472
STD 4.0	6.887	2.5293	10.726	2.008
STD 5.0	6.807	6.6045	24.427	5.202
Average	6.919			
Rel. Std. Dev.	0.896 %			



Peak Integration Report

Sample Name:	**RINSE**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 11:59**	*Run Time:*	**10.00**

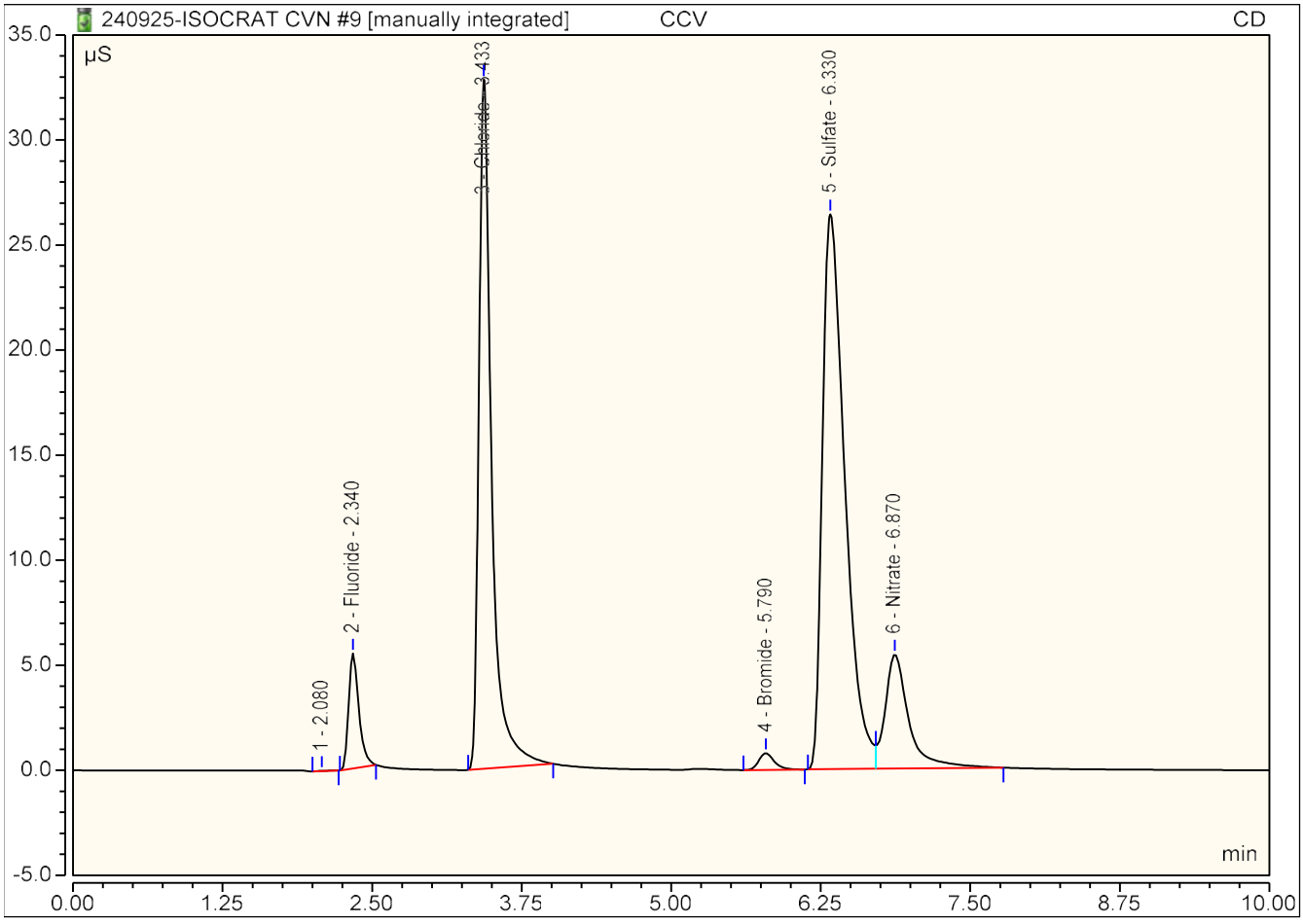
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.47	**Fluoride**	BMB	0.000	0.004	0.0450
3	3.44	**Chloride**	BMB	0.005	0.029	0.2169
4	6.46	**Sulfate**	BMB	0.001	0.006	0.2799
TOTAL:				0.01	0.04	0.54



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 12:12**	*Run Time:*	**10.00**

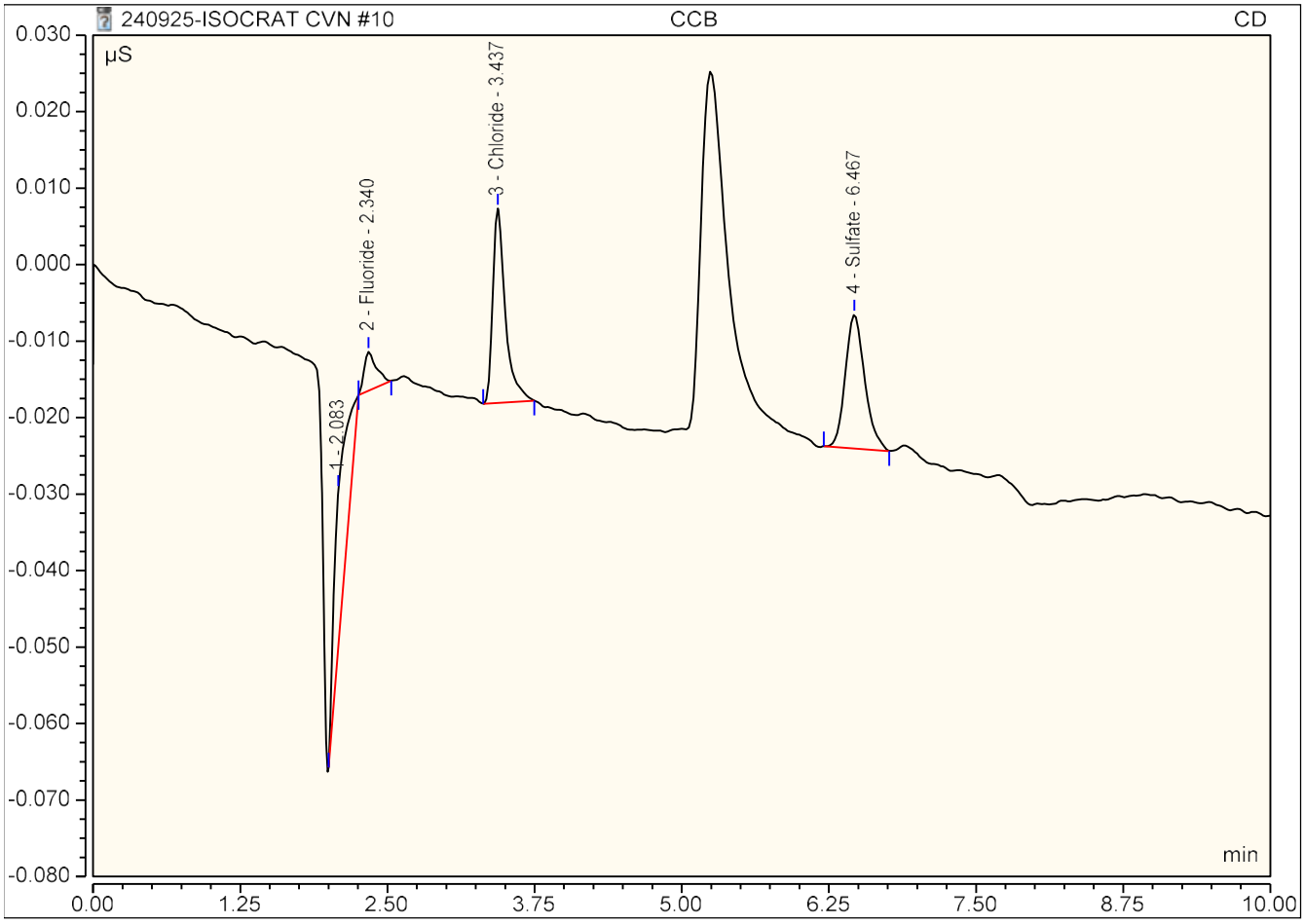
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	0.543	5.470	1.0346
3	3.43	**Chloride**	BMB*	4.040	32.791	10.0688
4	5.79	**Bromide**	BMB	0.121	0.802	1.0376
5	6.33	**Sulfate**	BM *	5.736	26.408	20.1082
6	6.87	**Nitrate**	MB*	1.244	5.436	1.0007
TOTAL:				11.68	70.91	33.25



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 12:24**	*Run Time:*	**10.00**

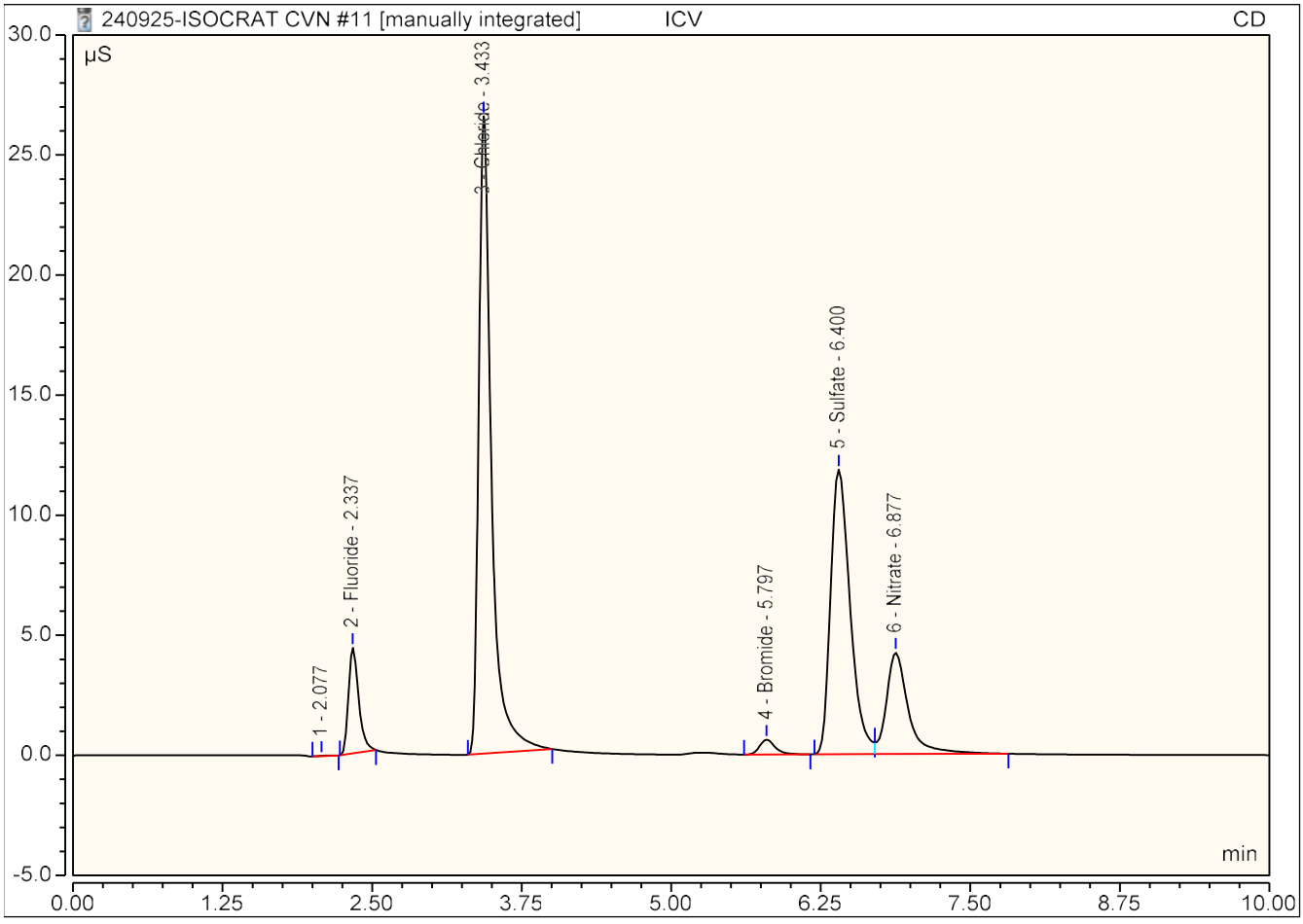
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	0.001	0.005	0.0456
3	3.44	**Chloride**	BMB	0.003	0.025	0.2133
4	6.47	**Sulfate**	BMB	0.003	0.018	0.2881
TOTAL:				0.01	0.05	0.55



Peak Integration Report

Sample Name:	**ICV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 12:36**	*Run Time:*	**10.00**

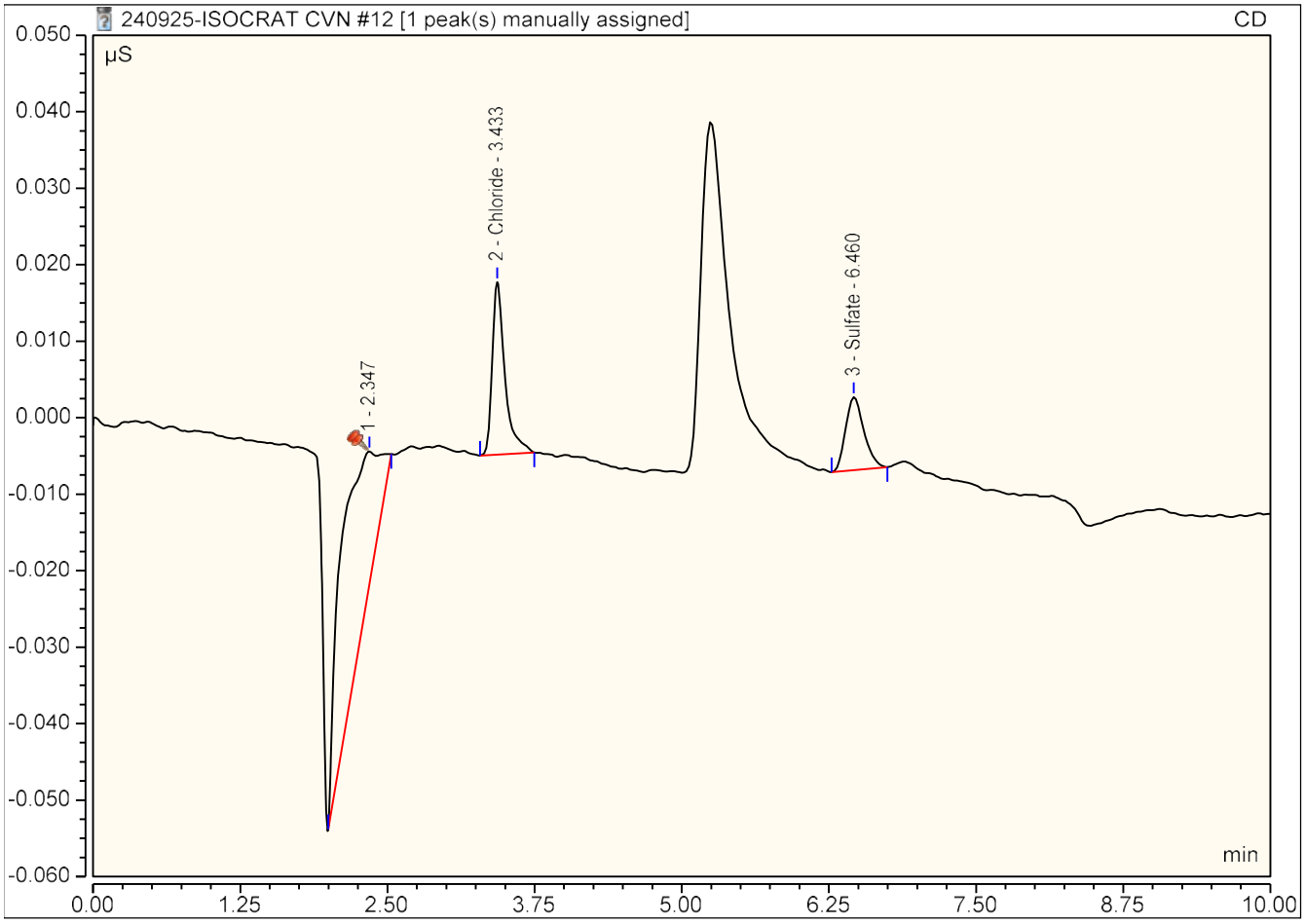
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	0.437	4.400	0.8412
3	3.43	**Chloride**	BMB*	3.281	26.543	8.2154
4	5.80	**Bromide**	BMB	0.096	0.625	0.8292
5	6.40	**Sulfate**	BM *	2.238	11.848	8.0161
6	6.88	**Nitrate**	MB*	0.897	4.222	0.7284
TOTAL:				6.95	47.64	18.63



Peak Integration Report

Sample Name:	**ICB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 12:48**	*Run Time:*	**10.00**

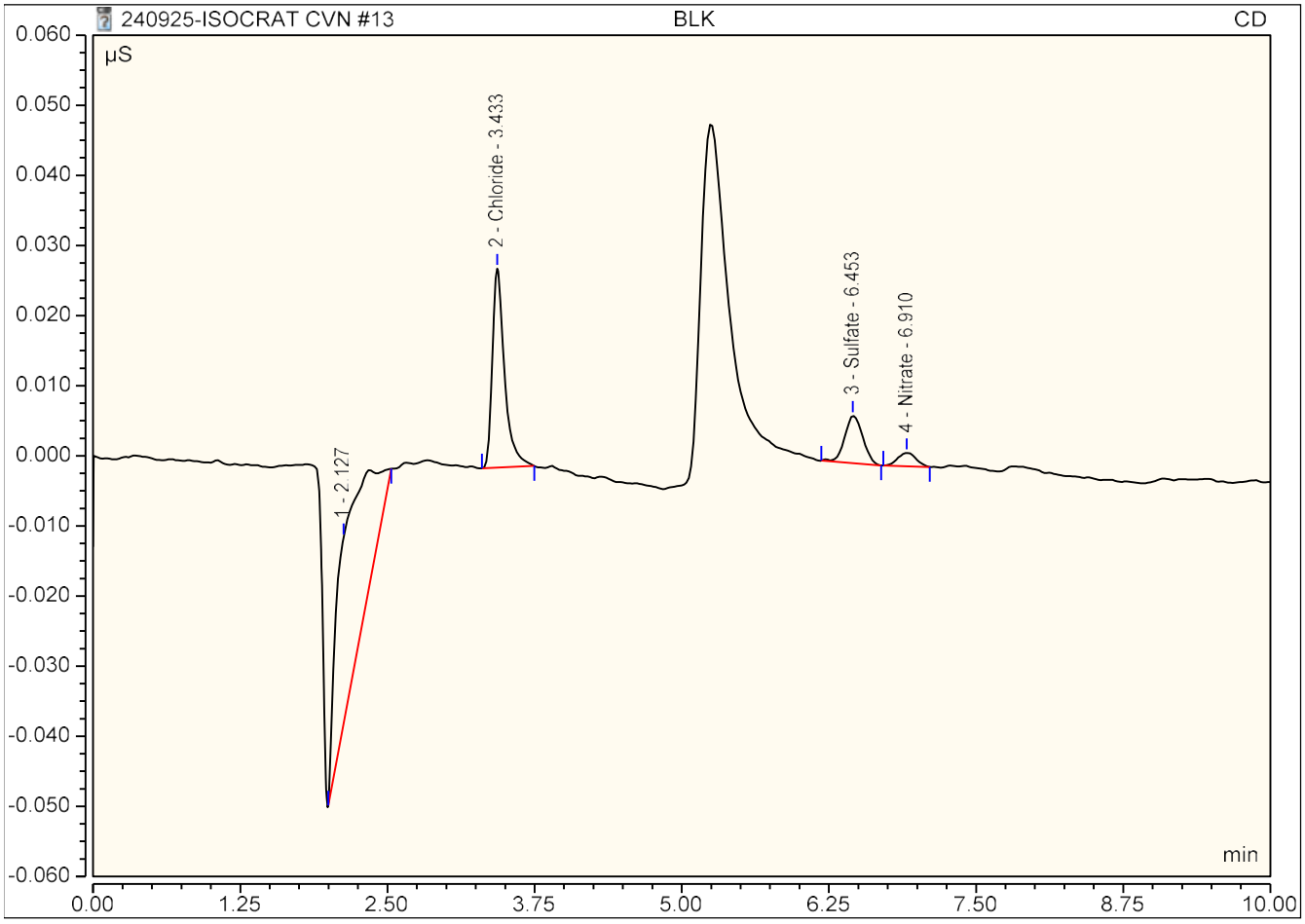
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.43	**Chloride**	BMB	0.003	0.023	0.2125
3	6.46	**Sulfate**	BMB	0.002	0.010	0.2825
TOTAL:				0.00	0.03	0.49



Peak Integration Report

Sample Name:	**BLK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 13:00**	*Run Time:*	**10.00**

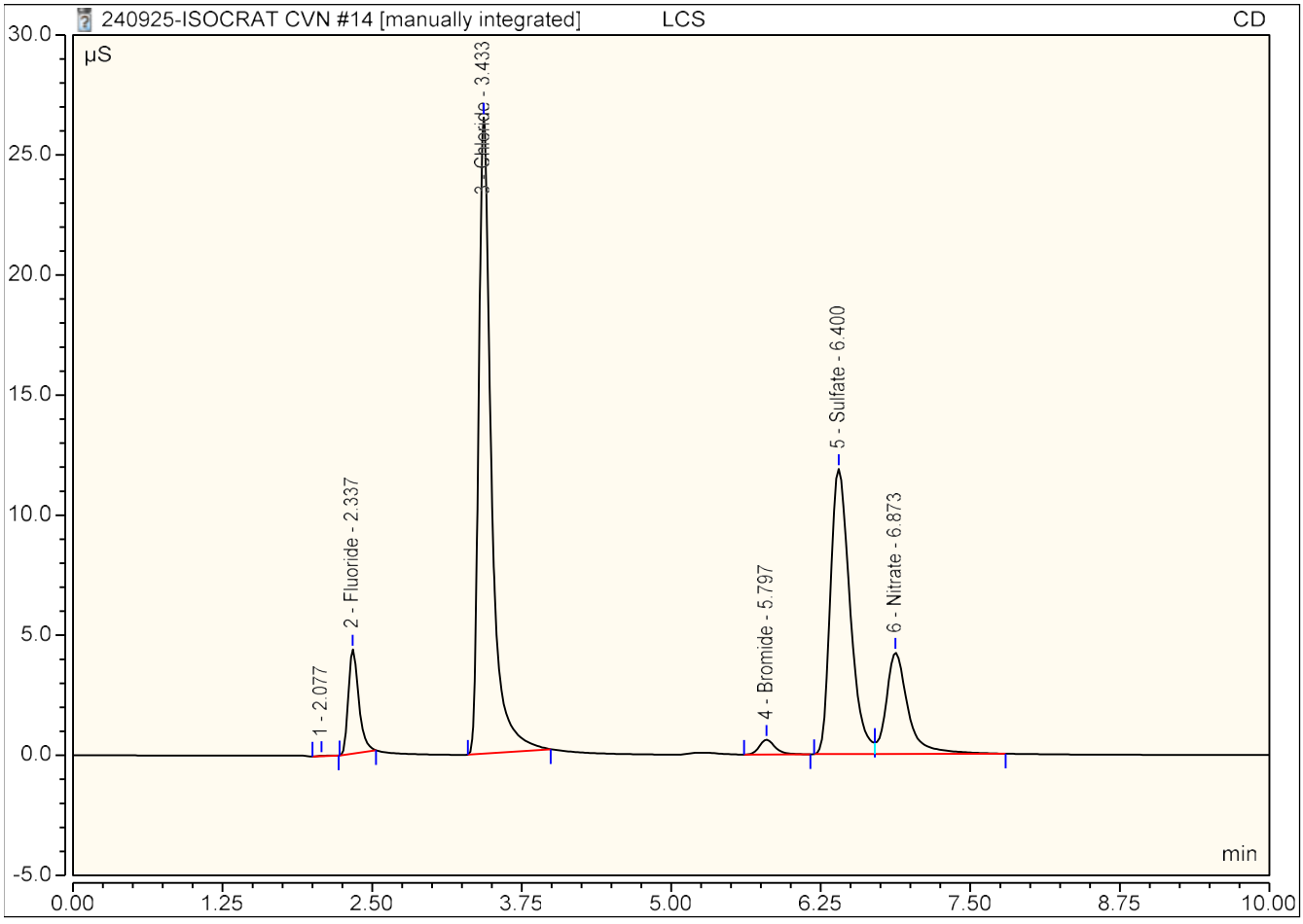
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.43	**Chloride**	BMB	0.003	0.028	0.2139
3	6.45	**Sulfate**	BMB	0.001	0.007	0.2807
4	6.91	**Nitrate**	BMB	0.000	0.002	0.0255
TOTAL:				0.00	0.04	0.52



Peak Integration Report

Sample Name:	**LCS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 13:12**	*Run Time:*	**10.00**

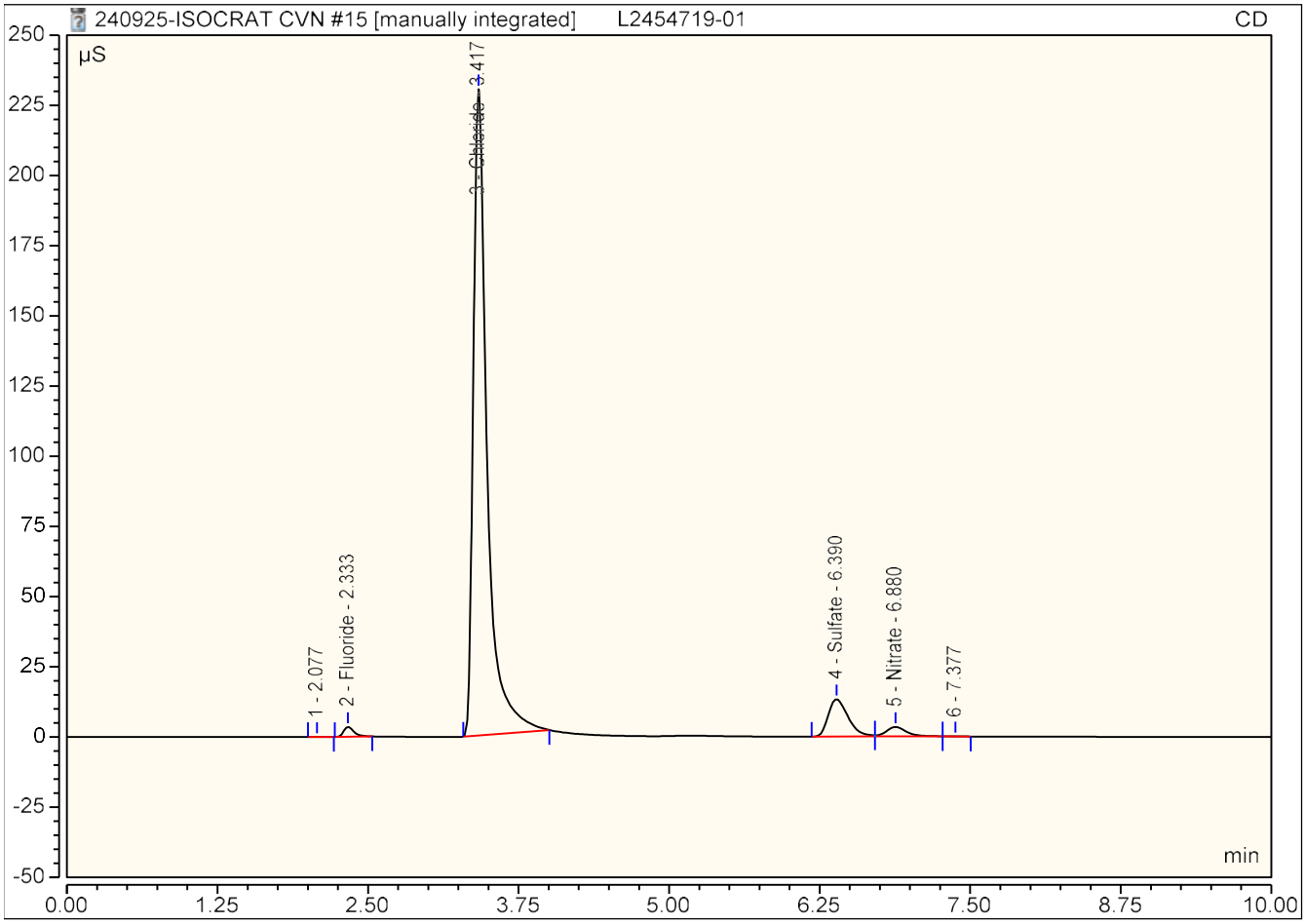
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	0.437	4.338	0.8414
3	3.43	**Chloride**	BMB*	3.287	26.484	8.2311
4	5.80	**Bromide**	BMB	0.096	0.621	0.8259
5	6.40	**Sulfate**	BM *	2.252	11.874	8.0623
6	6.87	**Nitrate**	MB*	0.890	4.221	0.7228
TOTAL:				6.96	47.54	18.68



Peak Integration Report

Sample Name:	**L2454719-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 13:24**	*Run Time:*	**10.00**

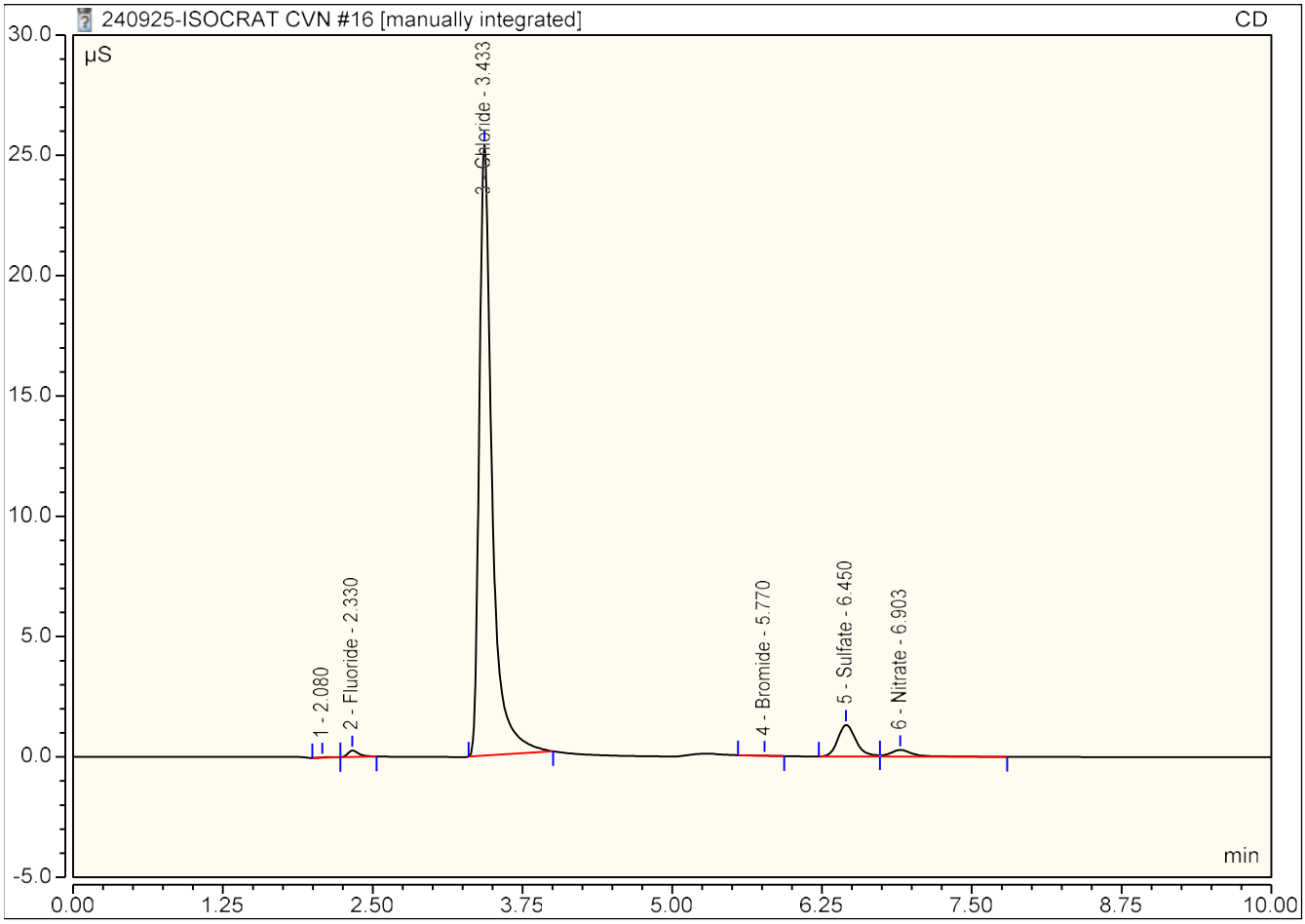
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.352	3.491	0.6864
3	3.42	**Chloride**	BMB*	30.490	230.155	74.6462
4	6.39	**Sulfate**	BM *	2.550	13.320	9.0945
5	6.88	**Nitrate**	Mb*	0.651	3.366	0.5354
TOTAL:				34.04	250.33	84.96



Peak Integration Report

Sample Name:	**L2454719-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 13:36**	*Run Time:*	**10.00**

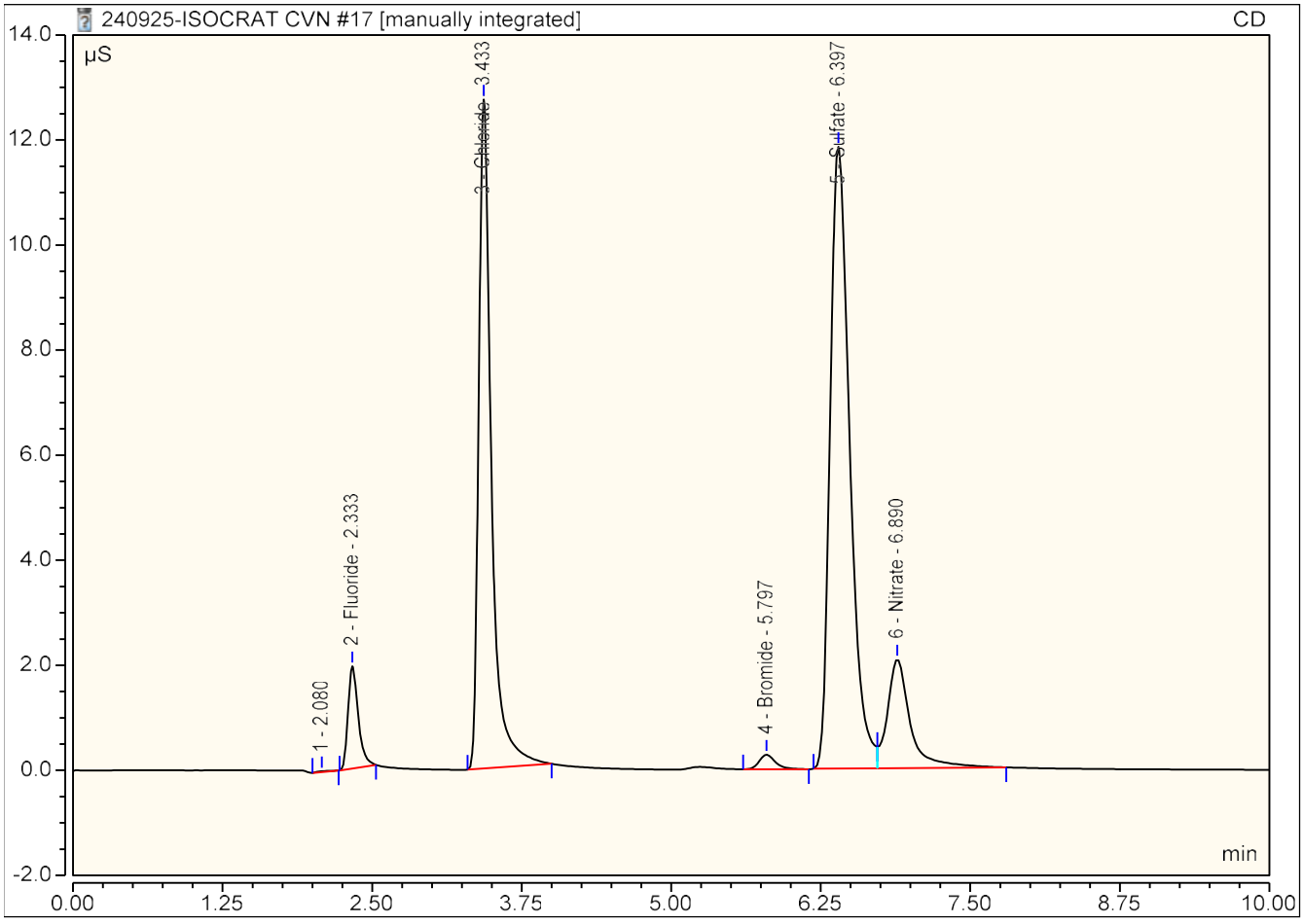
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.028	0.273	0.9573
3	3.43	**Chloride**	BMB*	3.165	25.371	79.3171
4	5.77	**Bromide**	BMB	0.000	0.002	0.3587
5	6.45	**Sulfate**	BM *	0.232	1.319	10.7923
6	6.90	**Nitrate**	MB*	0.063	0.283	0.7460
TOTAL:				3.49	27.25	92.17



Peak Integration Report

Sample Name:	**L2454719-02 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 13:48**	*Run Time:*	**10.00**

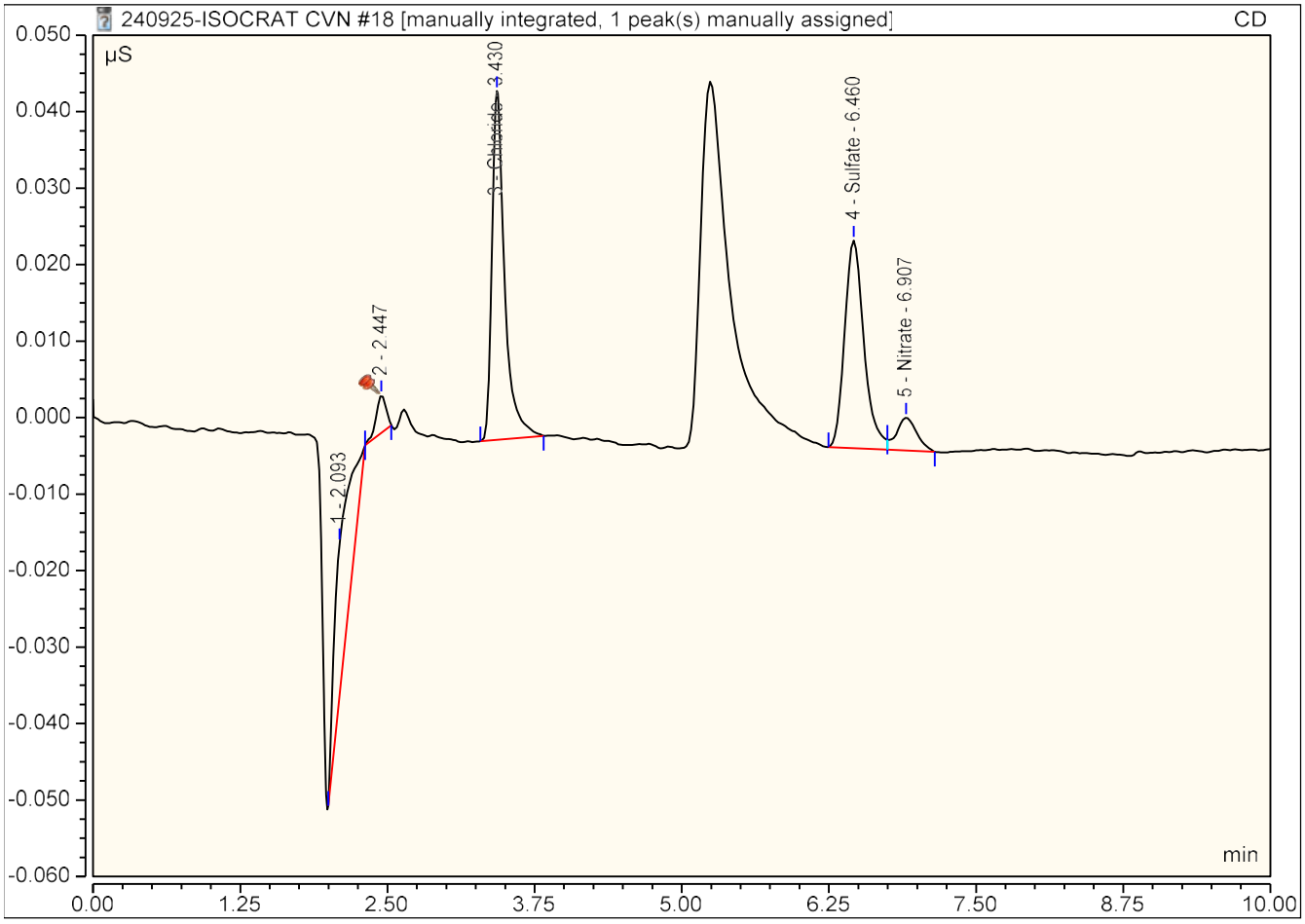
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.193	1.949	0.3972
3	3.43	**Chloride**	BMB*	1.566	12.736	4.0294
4	5.80	**Bromide**	BMB	0.043	0.277	0.3937
5	6.40	**Sulfate**	BM *	2.247	11.834	8.0462
6	6.89	**Nitrate**	MB*	0.457	2.070	0.3837
TOTAL:				4.51	28.87	13.25



Peak Integration Report

Sample Name:	**L2454719-02 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 14:00**	*Run Time:*	**10.00**

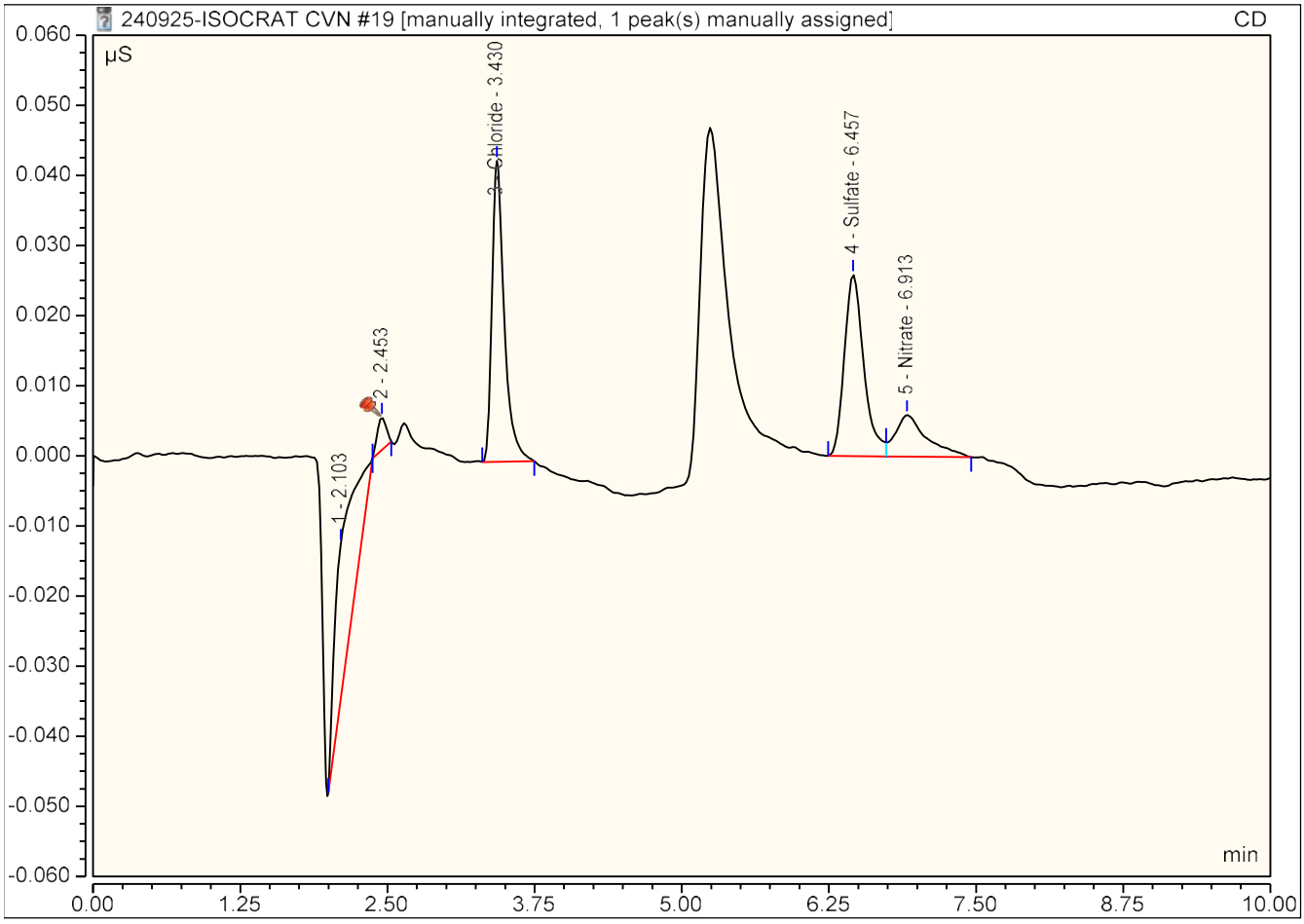
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.43	**Chloride**	BMB*	0.006	0.046	0.2194
4	6.46	**Sulfate**	BM *	0.005	0.027	0.2944
5	6.91	**Nitrate**	MB*	0.001	0.004	0.0259
TOTAL:				0.01	0.08	0.54



Peak Integration Report

Sample Name:	**L2454719-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 14:12**	*Run Time:*	**10.00**

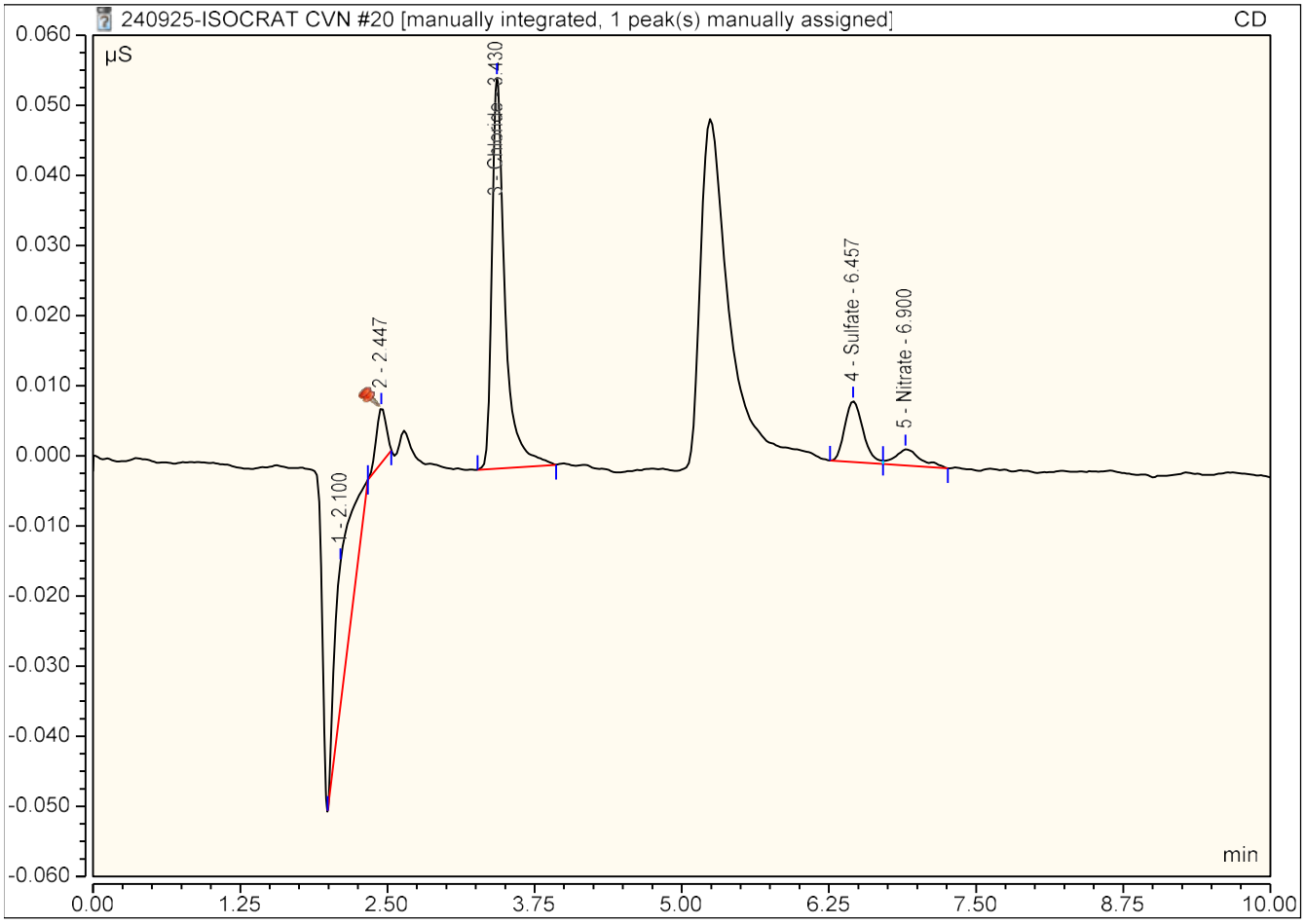
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.43	**Chloride**	BMB	0.005	0.043	0.2182
4	6.46	**Sulfate**	BM *	0.005	0.026	0.2937
5	6.91	**Nitrate**	MB*	0.002	0.006	0.0267
TOTAL:				0.01	0.07	0.54



Peak Integration Report

Sample Name:	**L2454719-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 14:25**	*Run Time:*	**10.00**

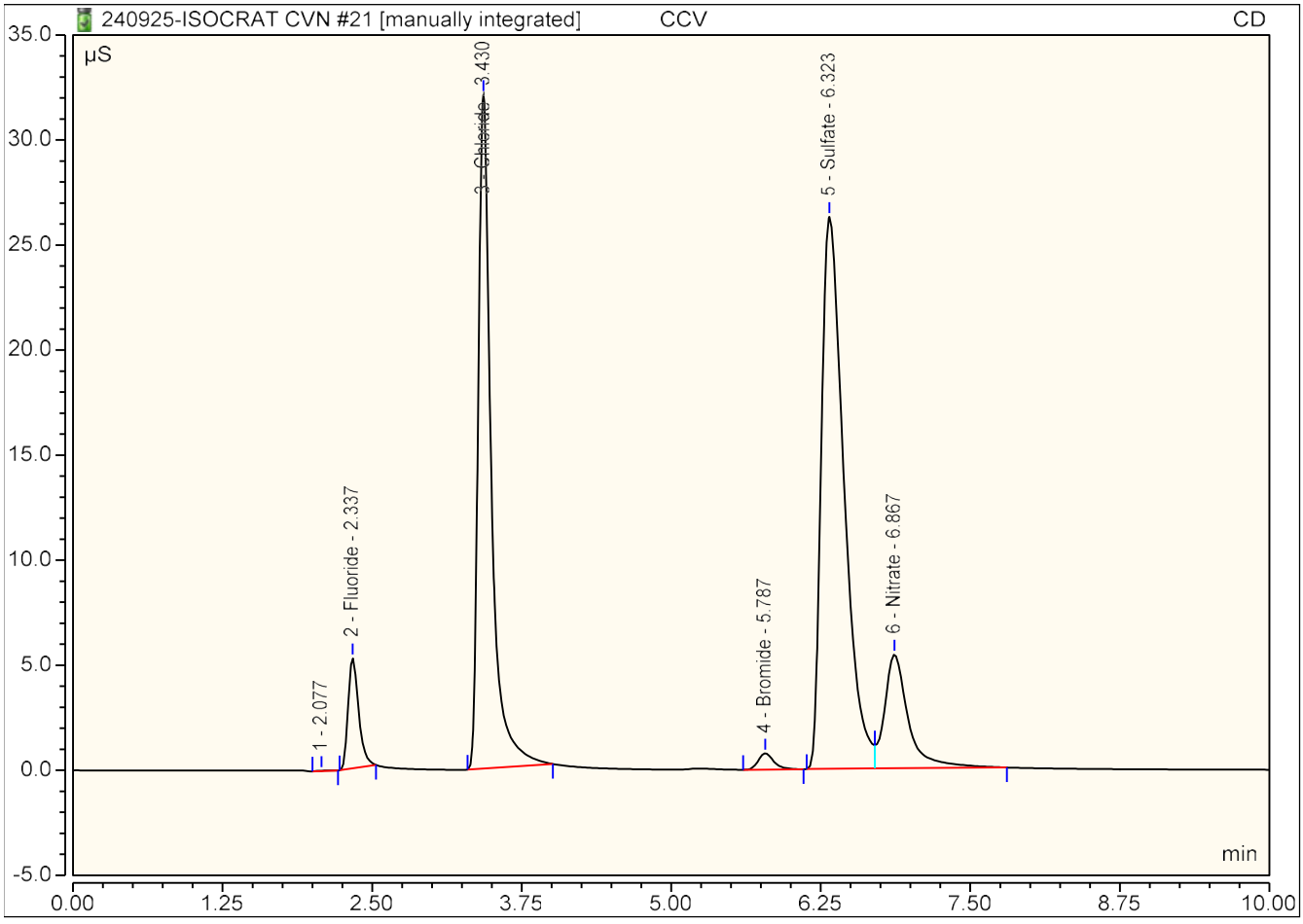
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.43	**Chloride**	BMB*	0.007	0.056	0.2230
4	6.46	**Sulfate**	BM *	0.002	0.009	0.2819
5	6.90	**Nitrate**	MB*	0.001	0.002	0.0257
TOTAL:				0.01	0.07	0.53



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 14:37**	*Run Time:*	**10.00**

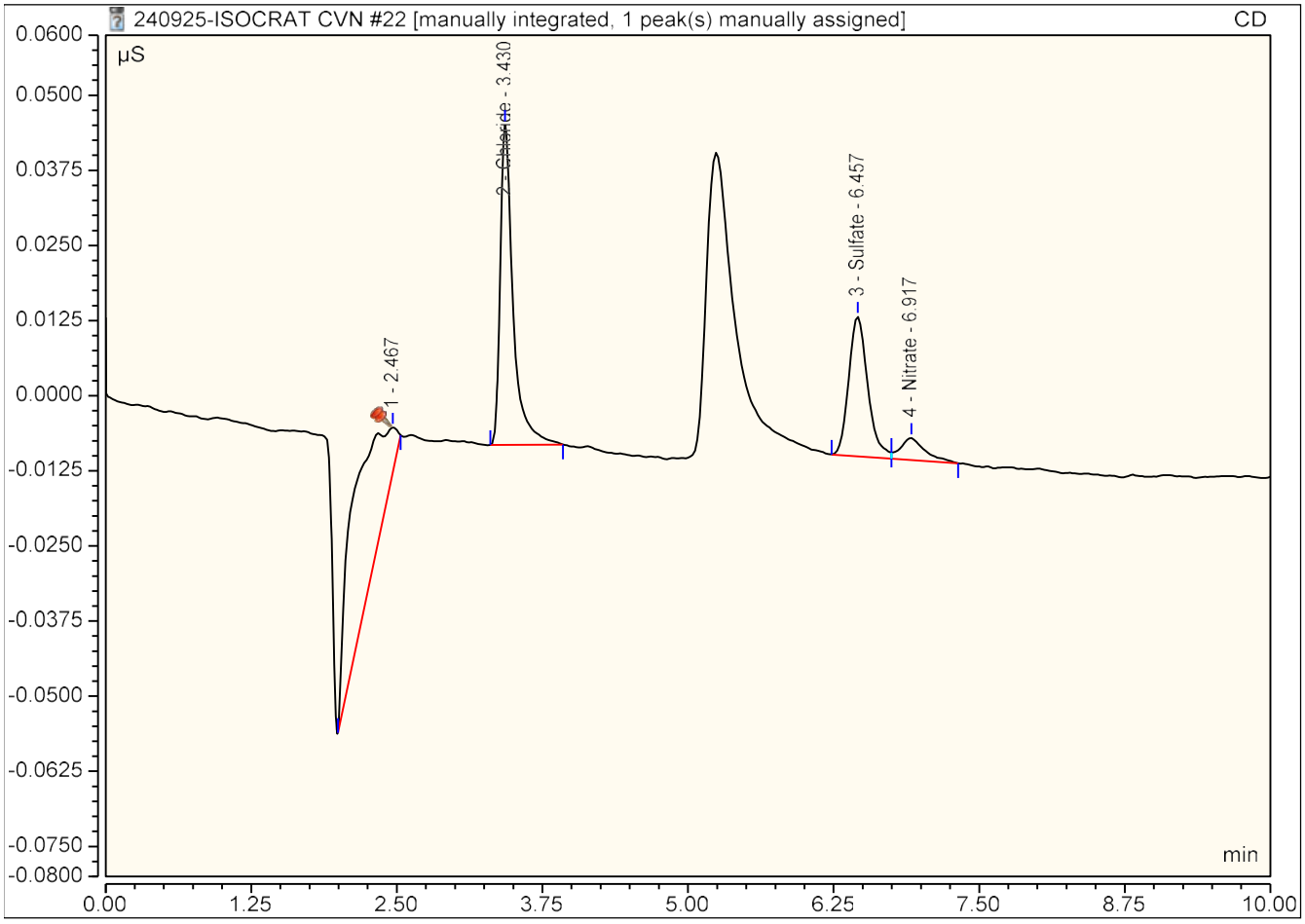
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	0.538	5.254	1.0261
3	3.43	**Chloride**	BMB*	4.053	32.066	10.1009
4	5.79	**Bromide**	BMB	0.117	0.775	1.0071
5	6.32	**Sulfate**	BM *	5.753	26.274	20.1675
6	6.87	**Nitrate**	MB*	1.250	5.426	1.0047
TOTAL:				11.71	69.79	33.31



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 14:49**	*Run Time:*	**10.00**

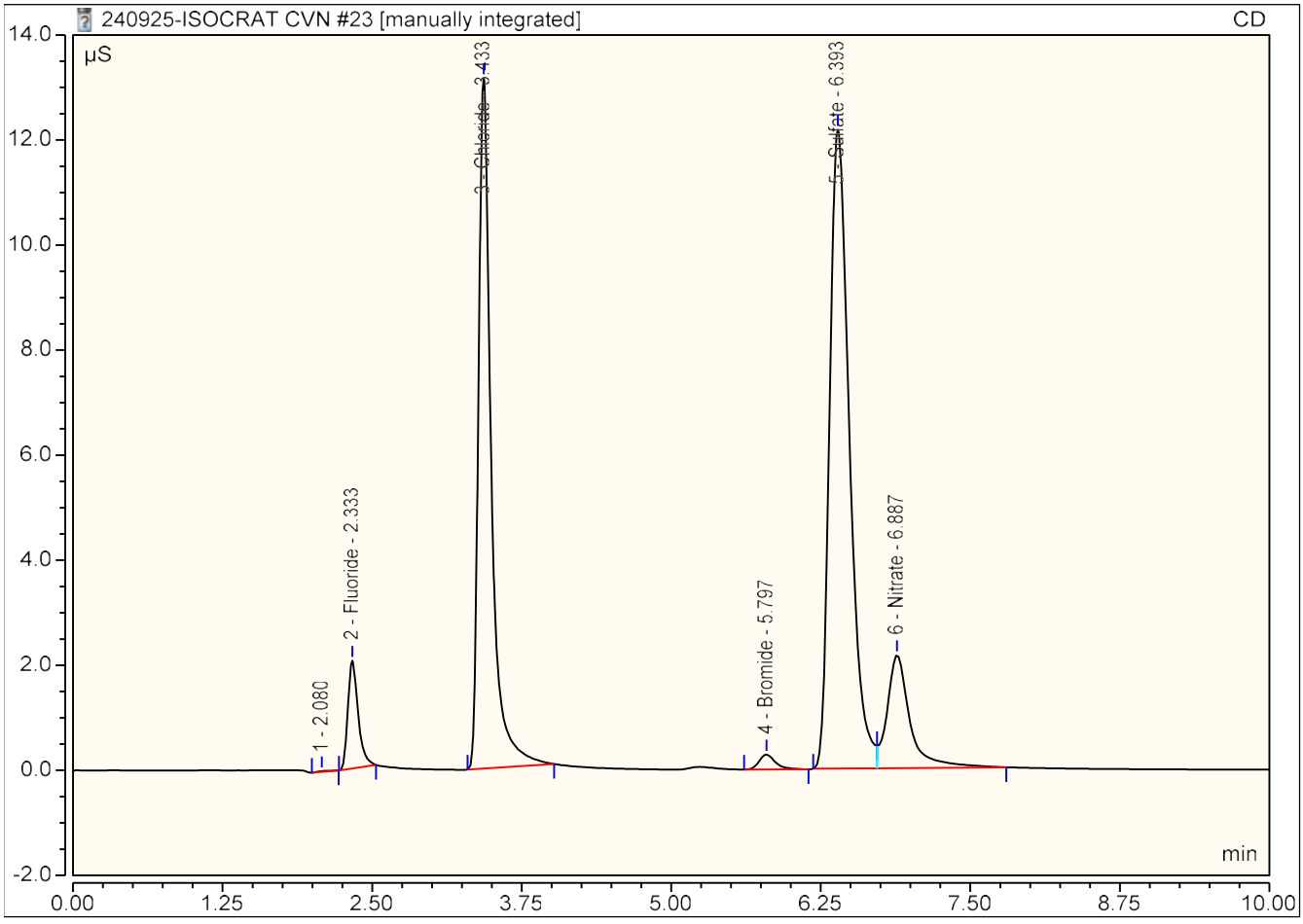
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.43	**Chloride**	BMB*	0.007	0.053	0.2222
3	6.46	**Sulfate**	BM *	0.004	0.023	0.2917
4	6.92	**Nitrate**	MB*	0.001	0.004	0.0259
TOTAL:				0.01	0.08	0.54



Peak Integration Report

Sample Name:	**L2454719-04 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 15:01**	*Run Time:*	**10.00**

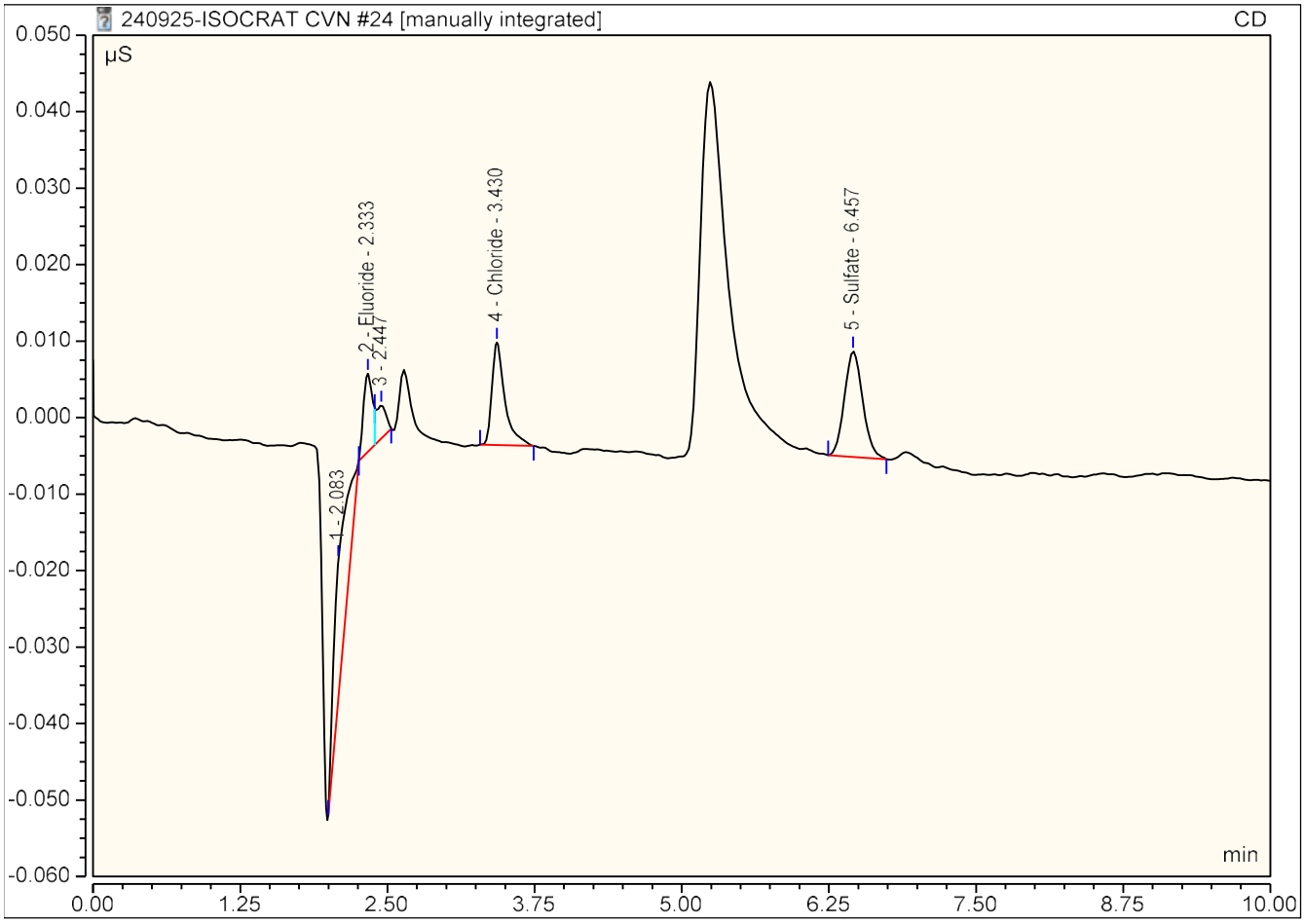
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.204	2.052	0.4158
3	3.43	**Chloride**	BMB*	1.622	13.145	4.1645
4	5.80	**Bromide**	BMB	0.045	0.284	0.4023
5	6.39	**Sulfate**	BM *	2.325	12.163	8.3164
6	6.89	**Nitrate**	MB*	0.476	2.151	0.3986
TOTAL:				4.67	29.79	13.70



Peak Integration Report

Sample Name:	**L2454719-04 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 15:13**	*Run Time:*	**10.00**

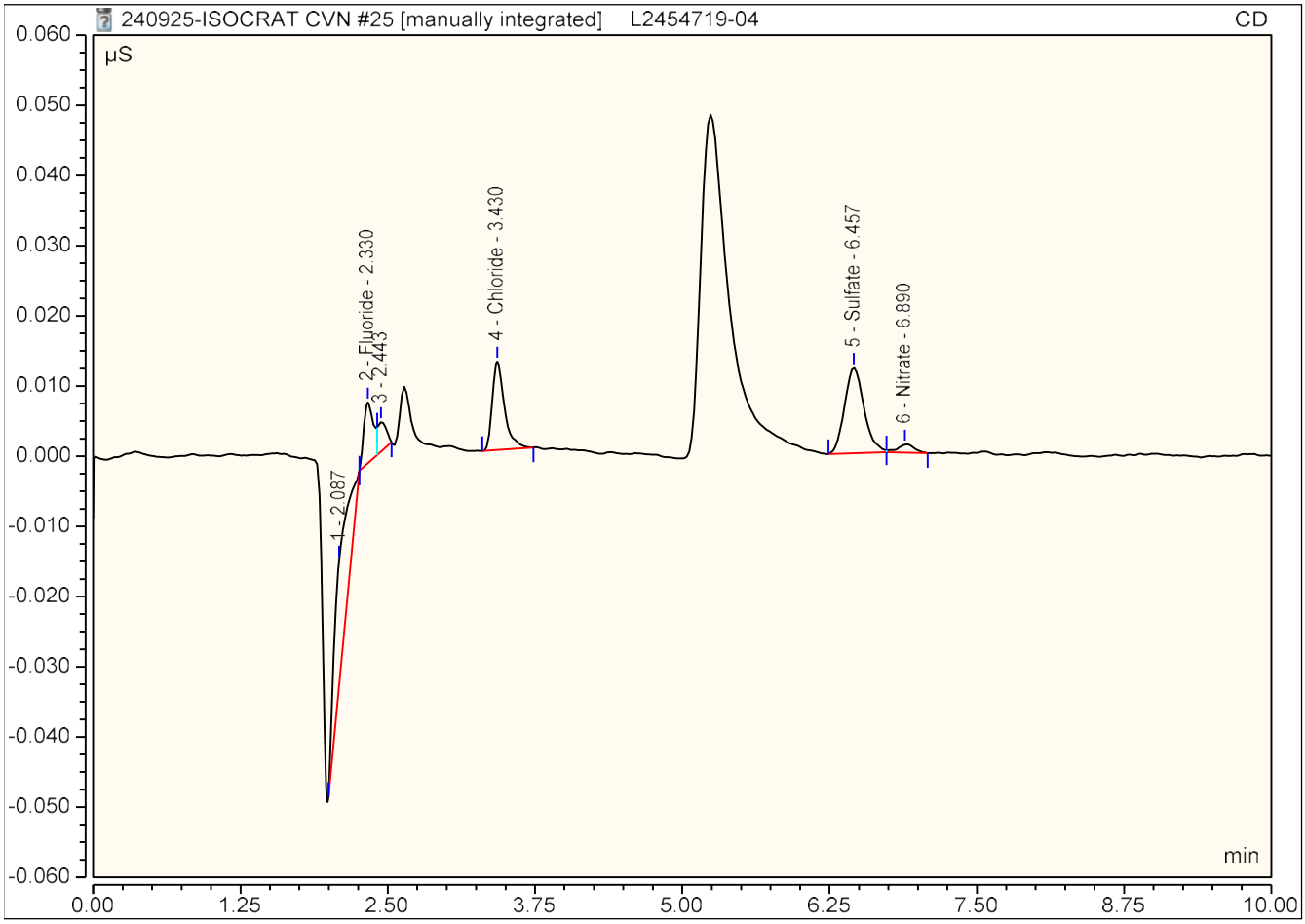
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BM *	0.001	0.010	0.0461
4	3.43	**Chloride**	BMB	0.002	0.013	0.2097
5	6.46	**Sulfate**	BMB	0.002	0.014	0.2851
TOTAL:				0.01	0.04	0.54



Peak Integration Report

Sample Name:	**L2454719-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 15:25**	*Run Time:*	**10.00**

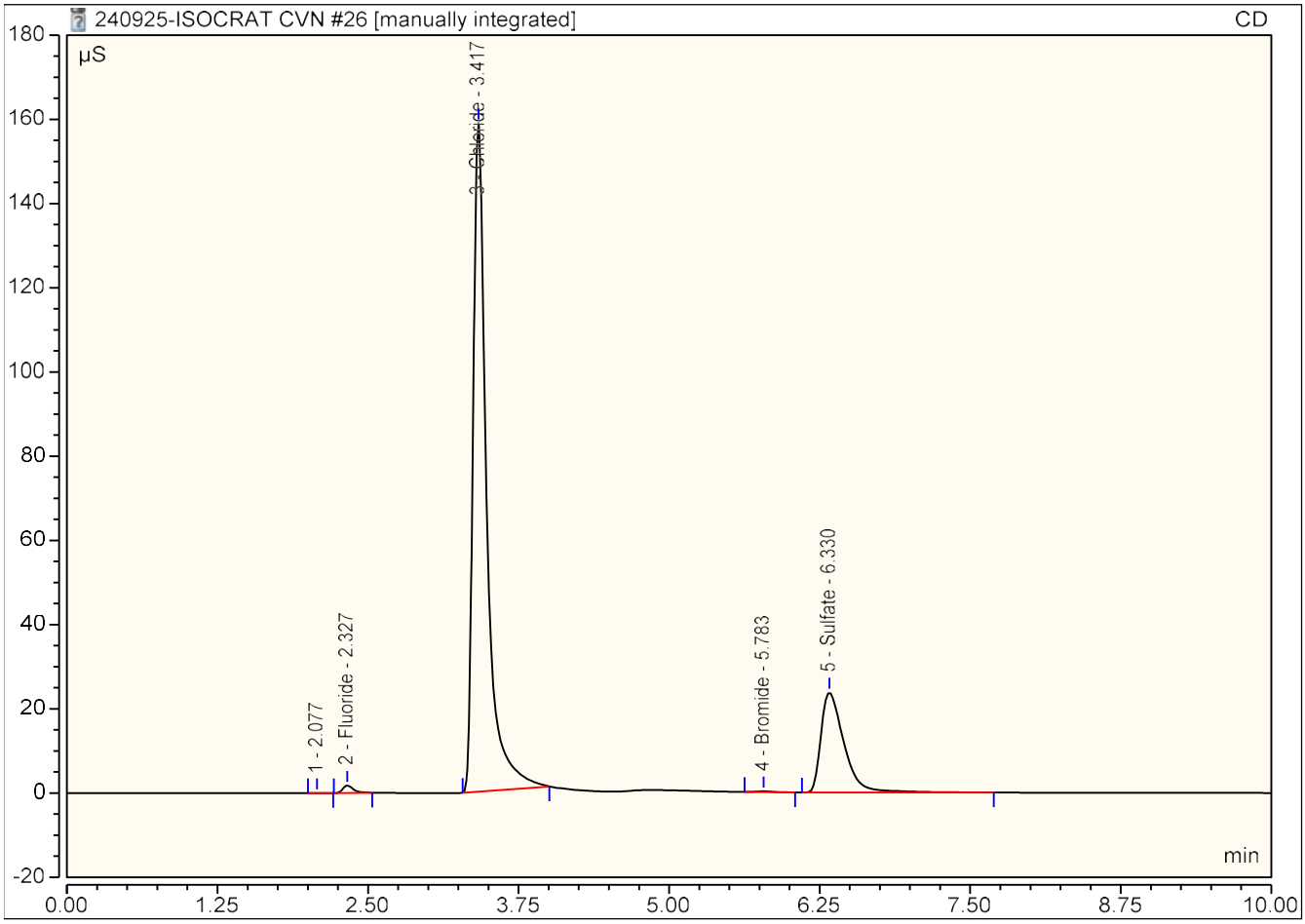
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	bM *	0.001	0.009	0.0460
4	3.43	**Chloride**	BMB	0.002	0.013	0.2093
5	6.46	**Sulfate**	BM *	0.002	0.012	0.2846
6	6.89	**Nitrate**	MB*	0.000	0.001	0.0254
TOTAL:				0.00	0.03	0.57



Peak Integration Report

Sample Name:	**L2453081-01 SO4 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 15:37**	*Run Time:*	**10.00**

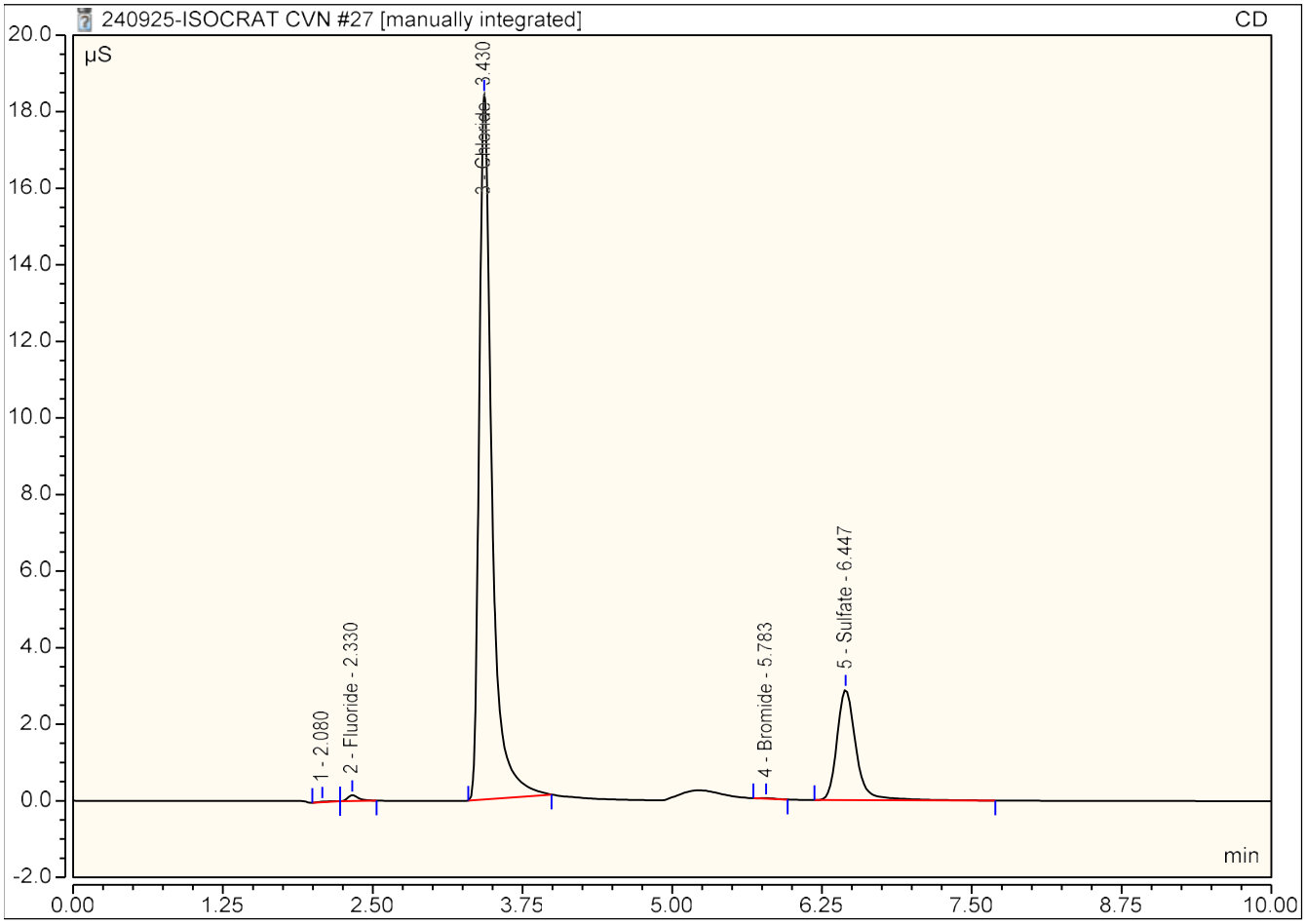
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.177	1.750	0.3666
3	3.42	**Chloride**	BMB*	20.758	158.744	50.8857
4	5.78	**Bromide**	BMB	0.030	0.202	0.2794
5	6.33	**Sulfate**	BMB	5.268	23.757	18.4896
TOTAL:				26.23	184.45	70.02



Peak Integration Report

Sample Name:	**L2453081-01; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 15:49**	*Run Time:*	**10.00**

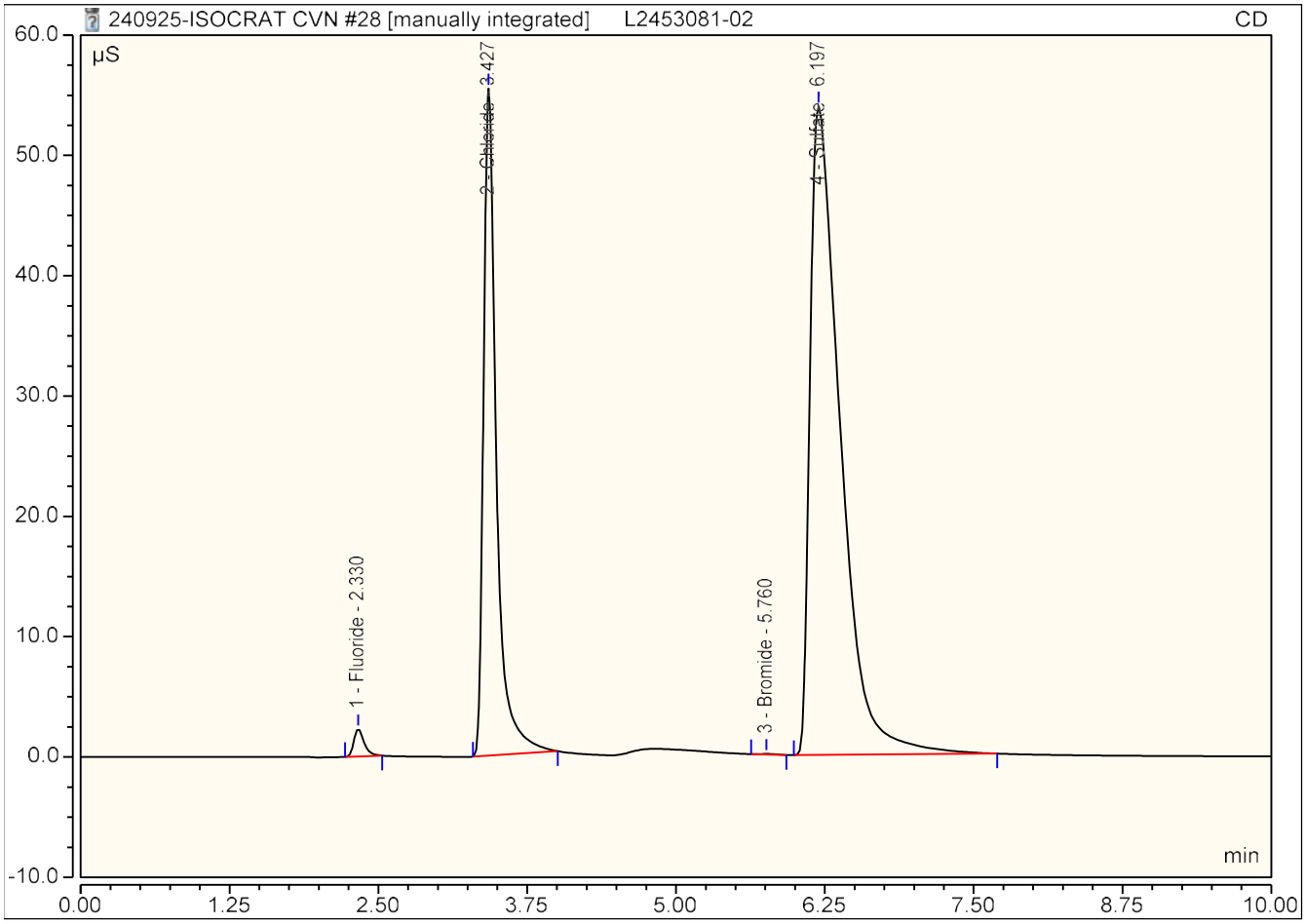
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.016	0.153	0.7374
3	3.43	**Chloride**	BMB*	2.275	18.415	57.6083
4	5.78	**Bromide**	BMB	0.002	0.016	0.5036
5	6.45	**Sulfate**	BMB	0.532	2.887	21.1608
TOTAL:				2.83	21.47	80.01



Peak Integration Report

Sample Name:	**L2453081-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 16:01**	*Run Time:*	**10.00**

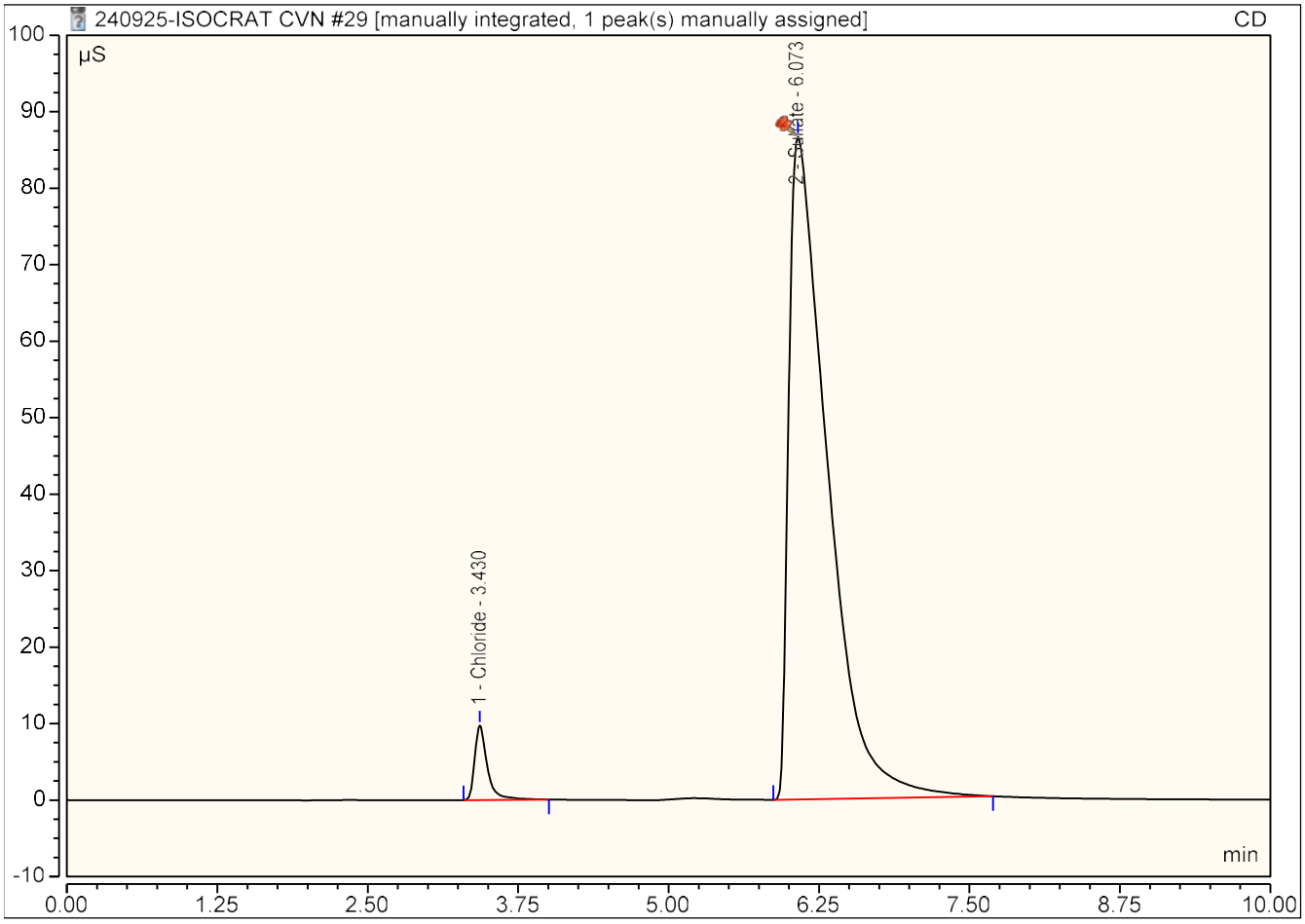
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.33	**Fluoride**	BMB	0.230	2.282	0.4633
2	3.43	**Chloride**	BMB*	6.951	55.450	17.1776
3	5.76	**Bromide**	BMB	0.007	0.050	0.0900
4	6.20	**Sulfate**	BMB	15.892	53.922	55.2256
TOTAL:				23.08	111.70	72.96



Peak Integration Report

Sample Name:	**L2453081-03; 25X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 16:13**	*Run Time:*	**10.00**

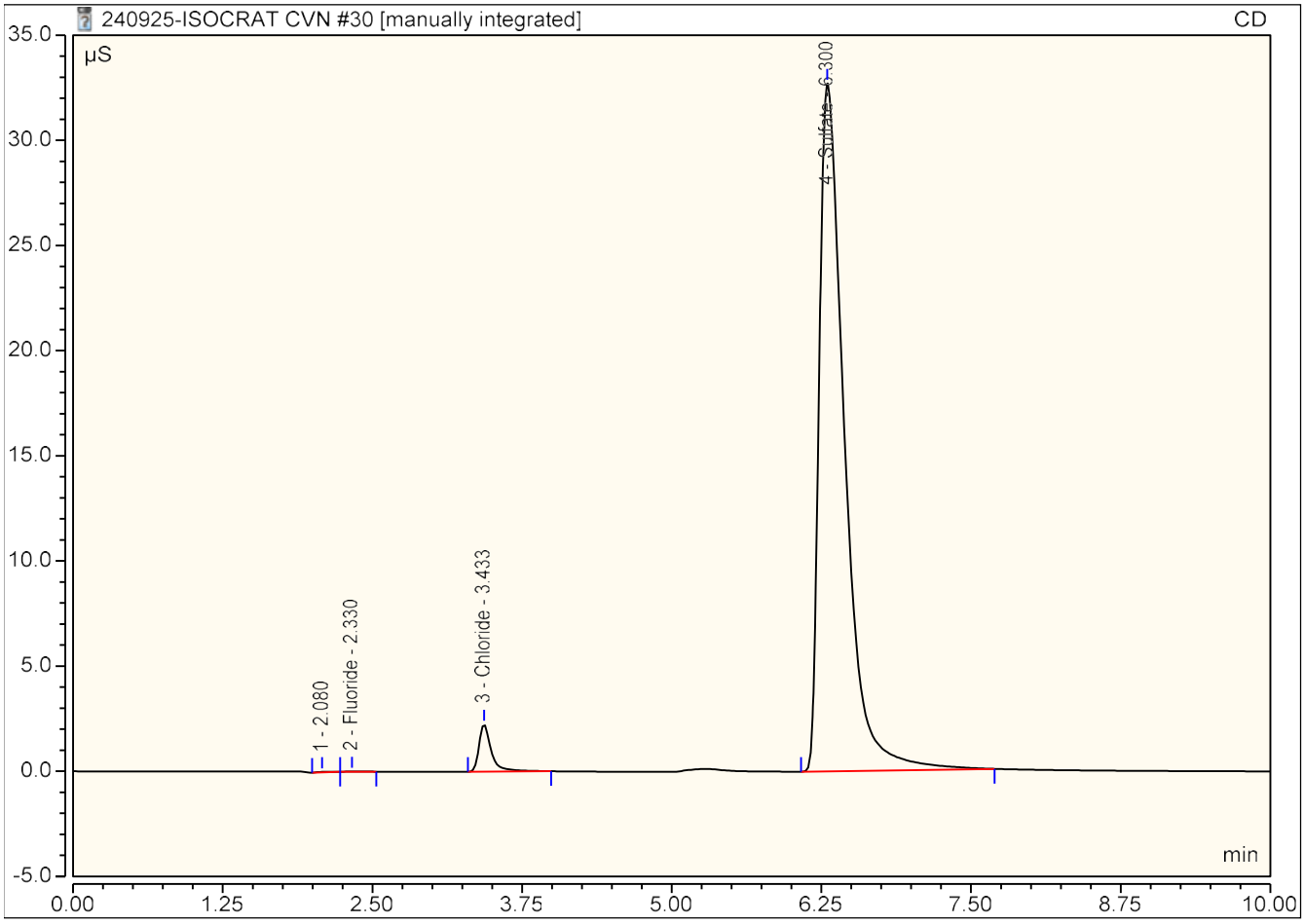
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	3.43	**Chloride**	BMB*	1.180	9.733	77.1373
2	6.07	**Sulfate**	BMB^	32.256	86.628	2795.1462
TOTAL:				33.44	96.36	2872.28



Peak Integration Report

Sample Name:	**L2453081-03; 100X SO4 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**100.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 16:25**	*Run Time:*	**10.00**

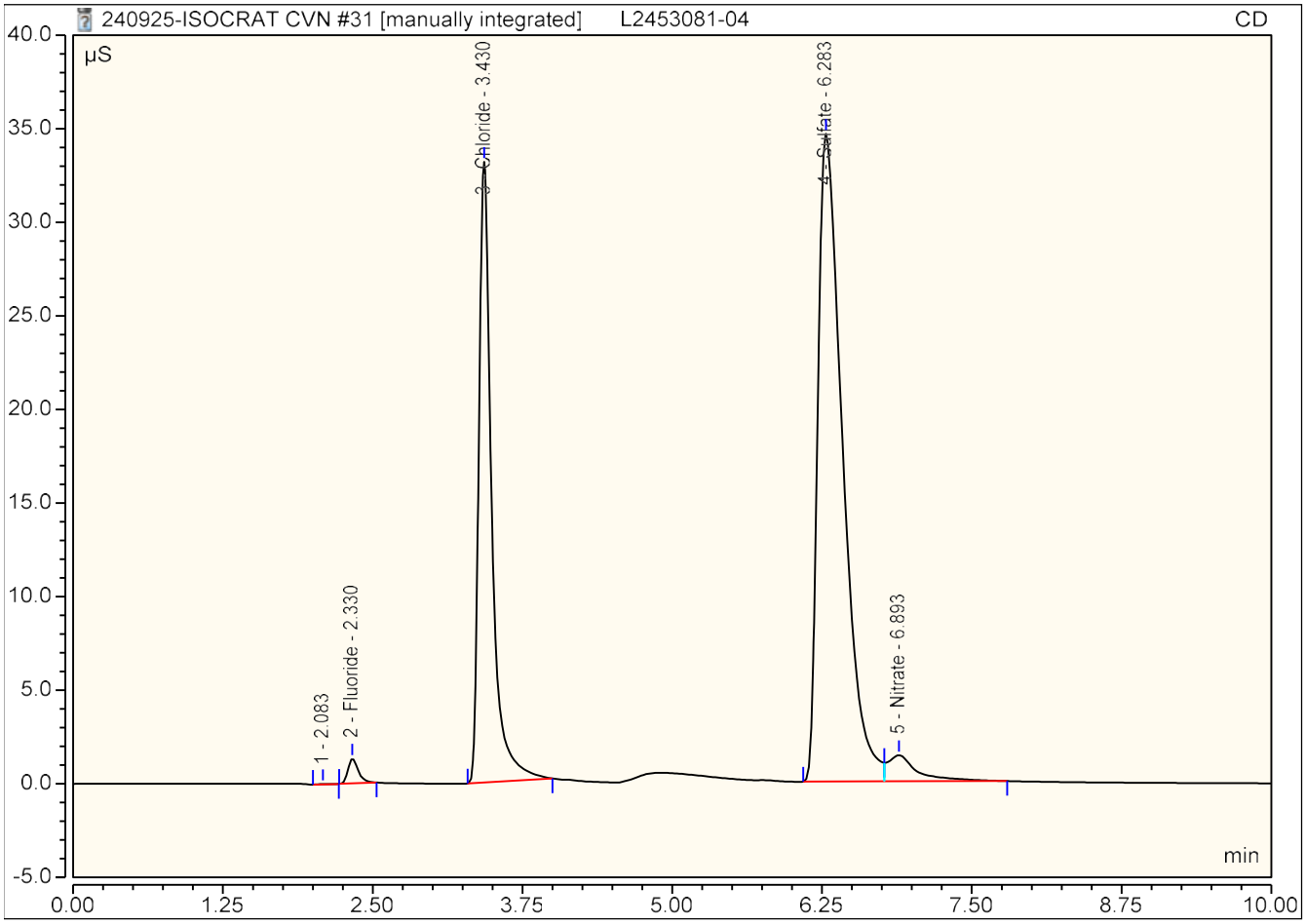
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.001	0.009	4.6645
3	3.43	**Chloride**	BMB*	0.267	2.247	85.7222
4	6.30	**Sulfate**	BMB	8.000	32.702	2793.7336
TOTAL:				8.27	34.96	2884.12



Peak Integration Report

Sample Name:	**L2453081-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 16:38**	*Run Time:*	**10.00**

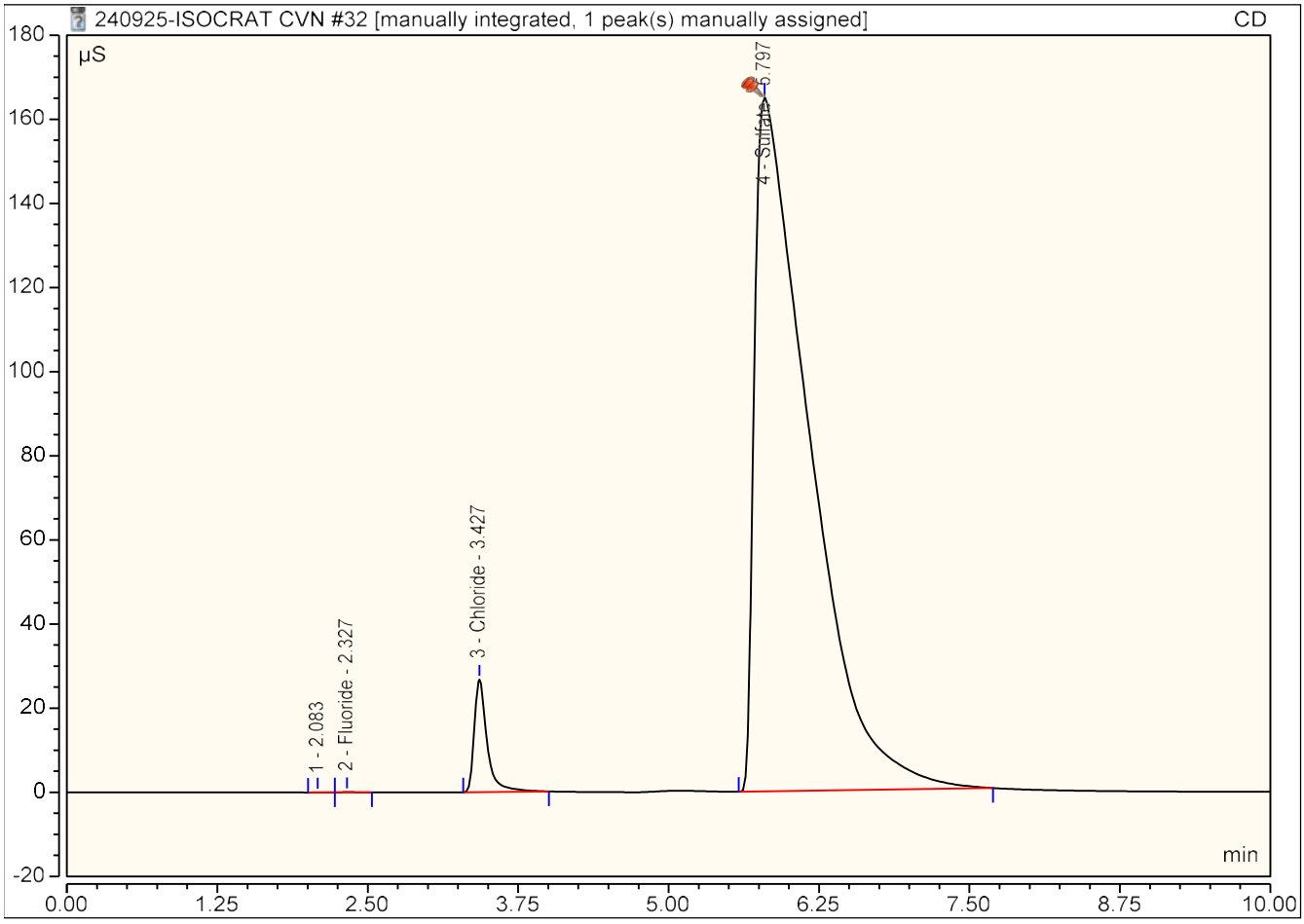
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.133	1.326	0.2862
3	3.43	**Chloride**	BMB*	4.129	33.169	10.2856
4	6.28	**Sulfate**	BM *	8.278	34.610	28.8998
5	6.89	**Nitrate**	MB*	0.403	1.400	0.3415
TOTAL:				12.94	70.51	39.81



Peak Integration Report

Sample Name:	**L2453081-05; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 16:50**	*Run Time:*	**10.00**

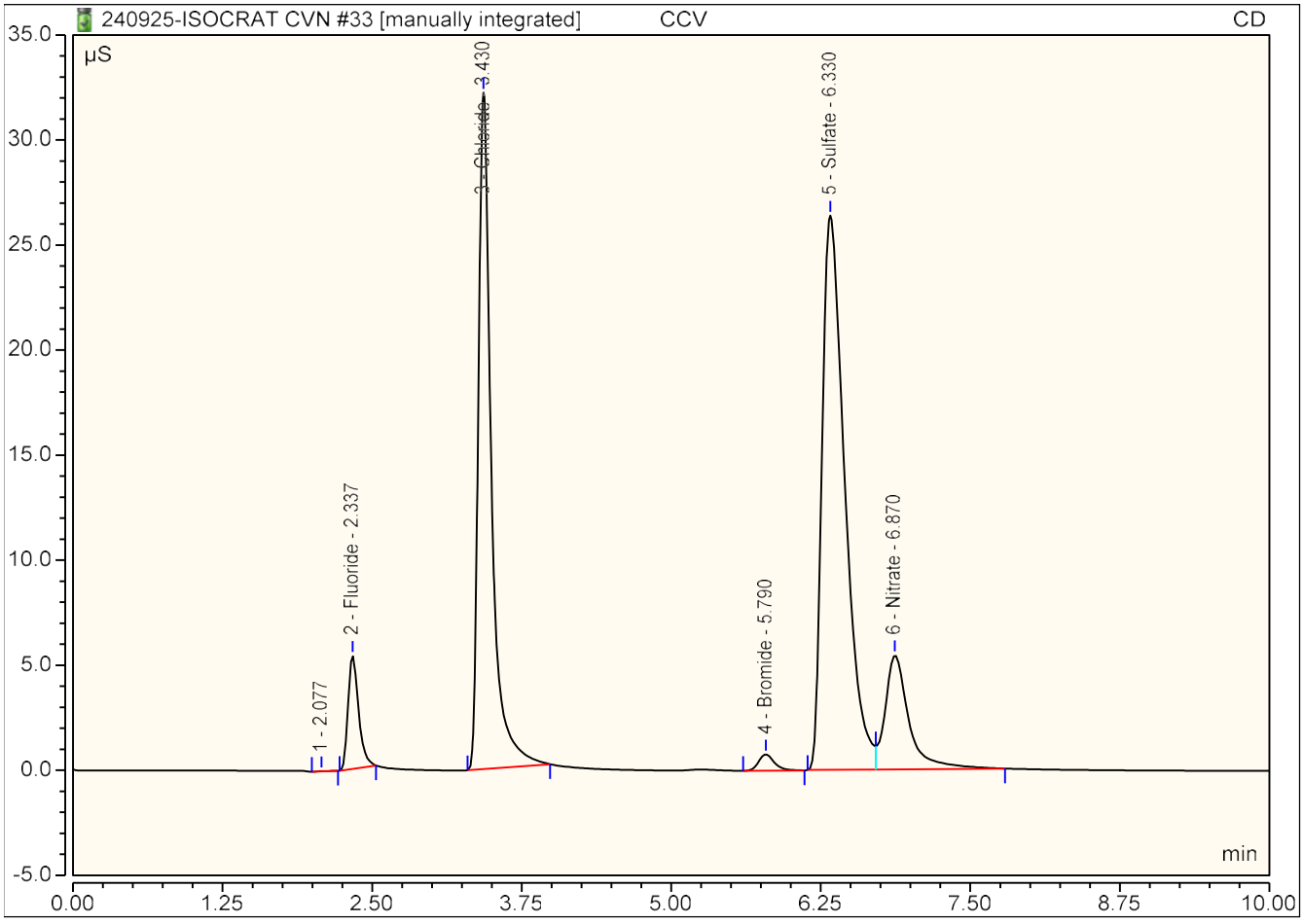
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.010	0.090	0.6257
3	3.43	**Chloride**	BMB*	3.308	26.797	82.8325
4	5.80	**Sulfate**	BMB^	87.165	164.935	3016.5779
TOTAL:				90.48	191.82	3100.04



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 17:02**	*Run Time:*	**10.00**

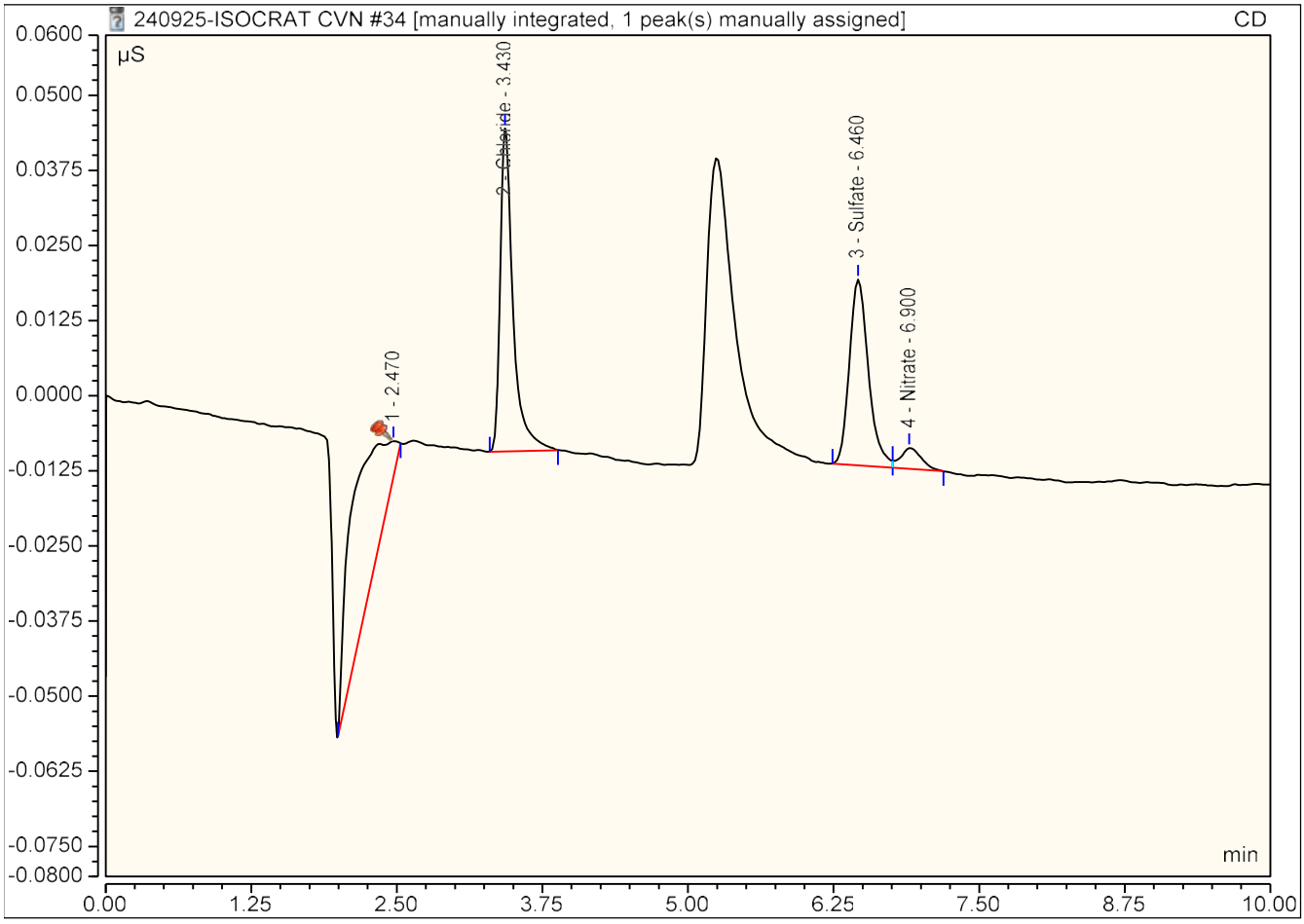
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	0.550	5.393	1.0475
3	3.43	**Chloride**	BMB*	4.058	32.206	10.1123
4	5.79	**Bromide**	BMB	0.118	0.780	1.0126
5	6.33	**Sulfate**	BM *	5.786	26.386	20.2822
6	6.87	**Nitrate**	MB*	1.251	5.438	1.0058
TOTAL:				11.76	70.20	33.46



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 17:14**	*Run Time:*	**10.00**

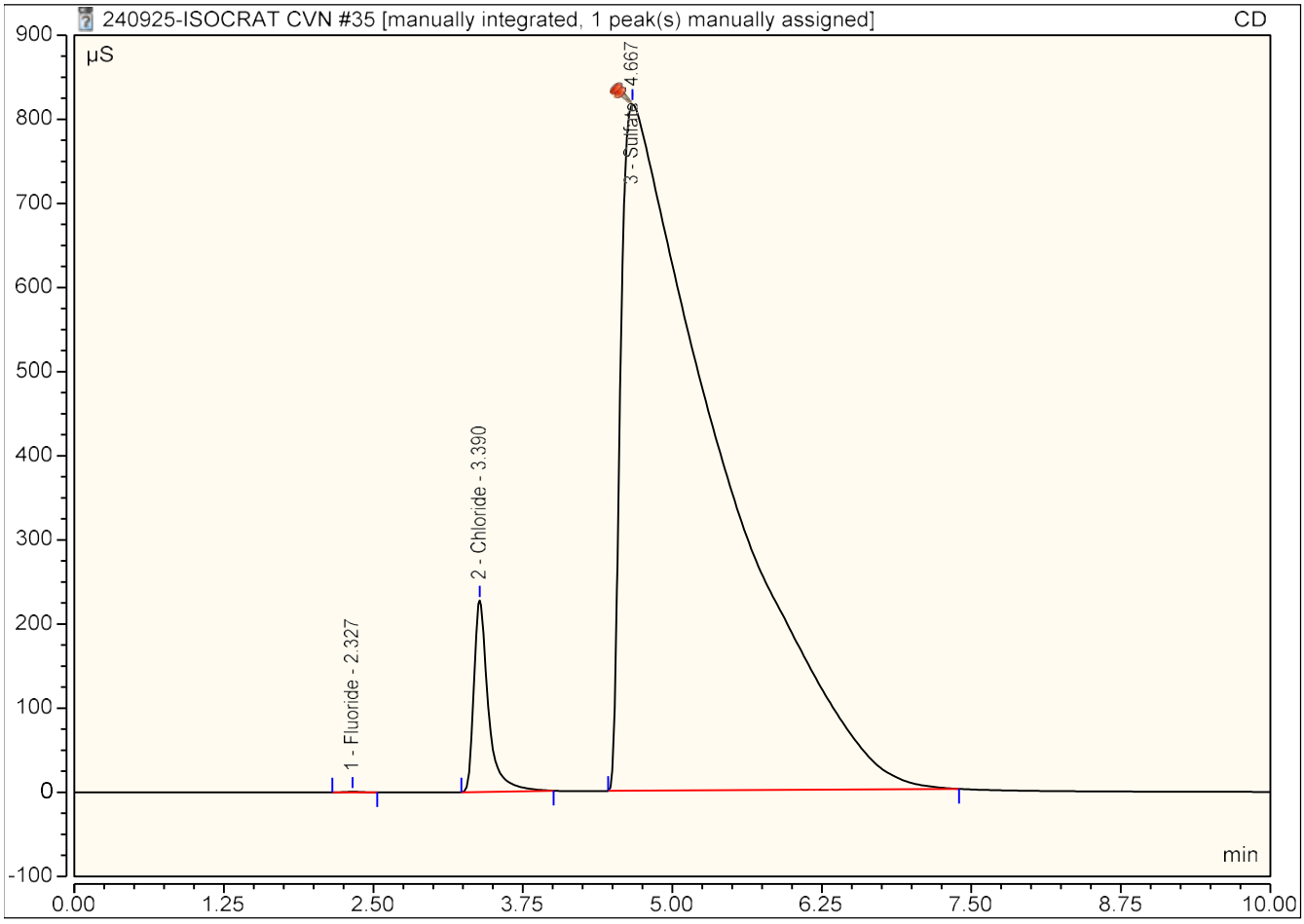
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.43	**Chloride**	BMB*	0.007	0.054	0.2223
3	6.46	**Sulfate**	BM *	0.006	0.031	0.2968
4	6.90	**Nitrate**	MB*	0.001	0.003	0.0258
TOTAL:				0.01	0.09	0.54



Peak Integration Report

Sample Name:	**XL2453081-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 17:26**	*Run Time:*	**10.00**

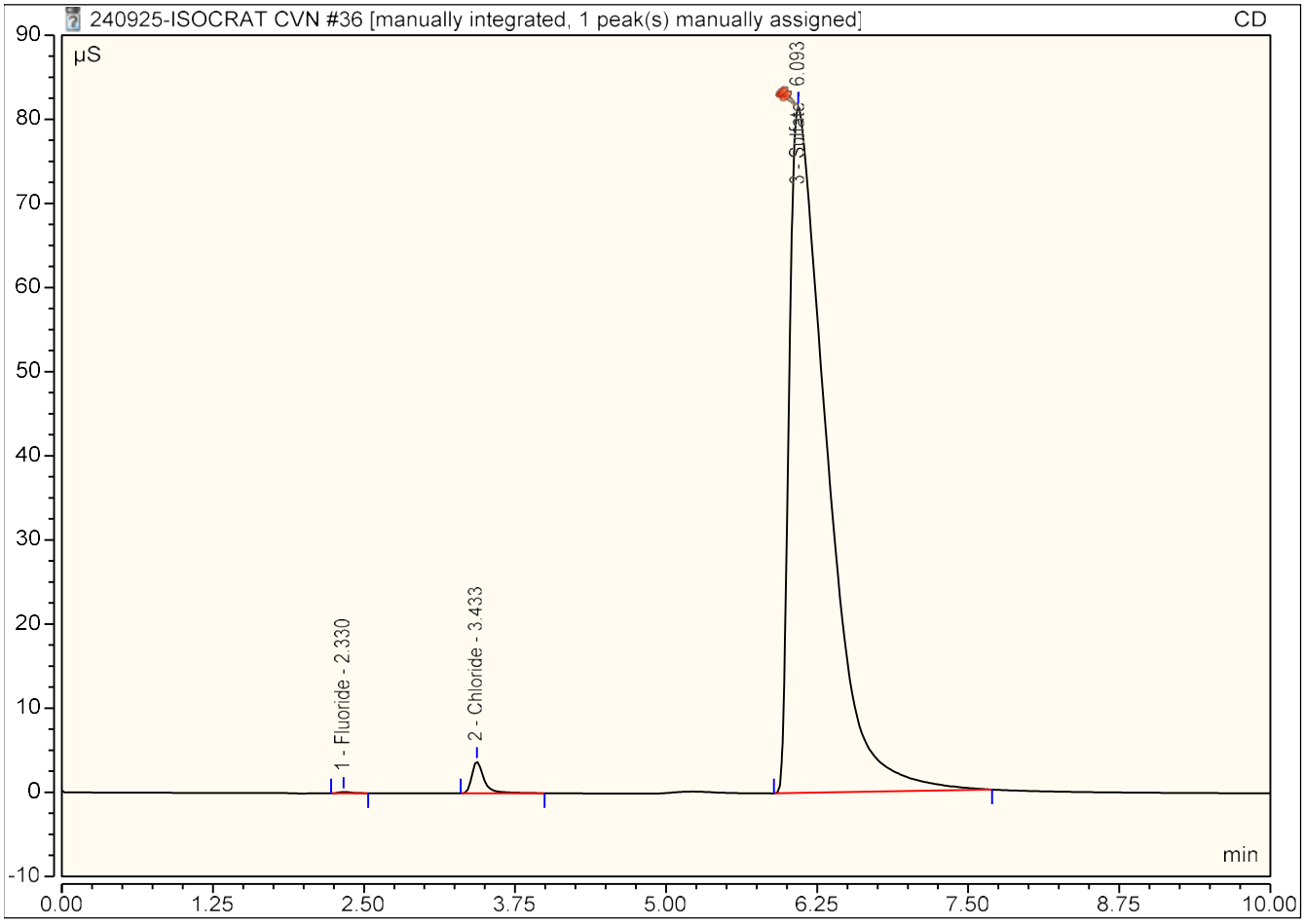
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.33	**Fluoride**	BMB	0.089	0.647	0.2062
2	3.39	**Chloride**	BMB*	32.042	227.445	78.4361
3	4.67	**Sulfate**	BMB*^	779.454	816.405	2695.3080
TOTAL:				811.58	1044.50	2773.95



Peak Integration Report

Sample Name:	**XL2453081-06; 25X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 17:38**	*Run Time:*	**10.00**

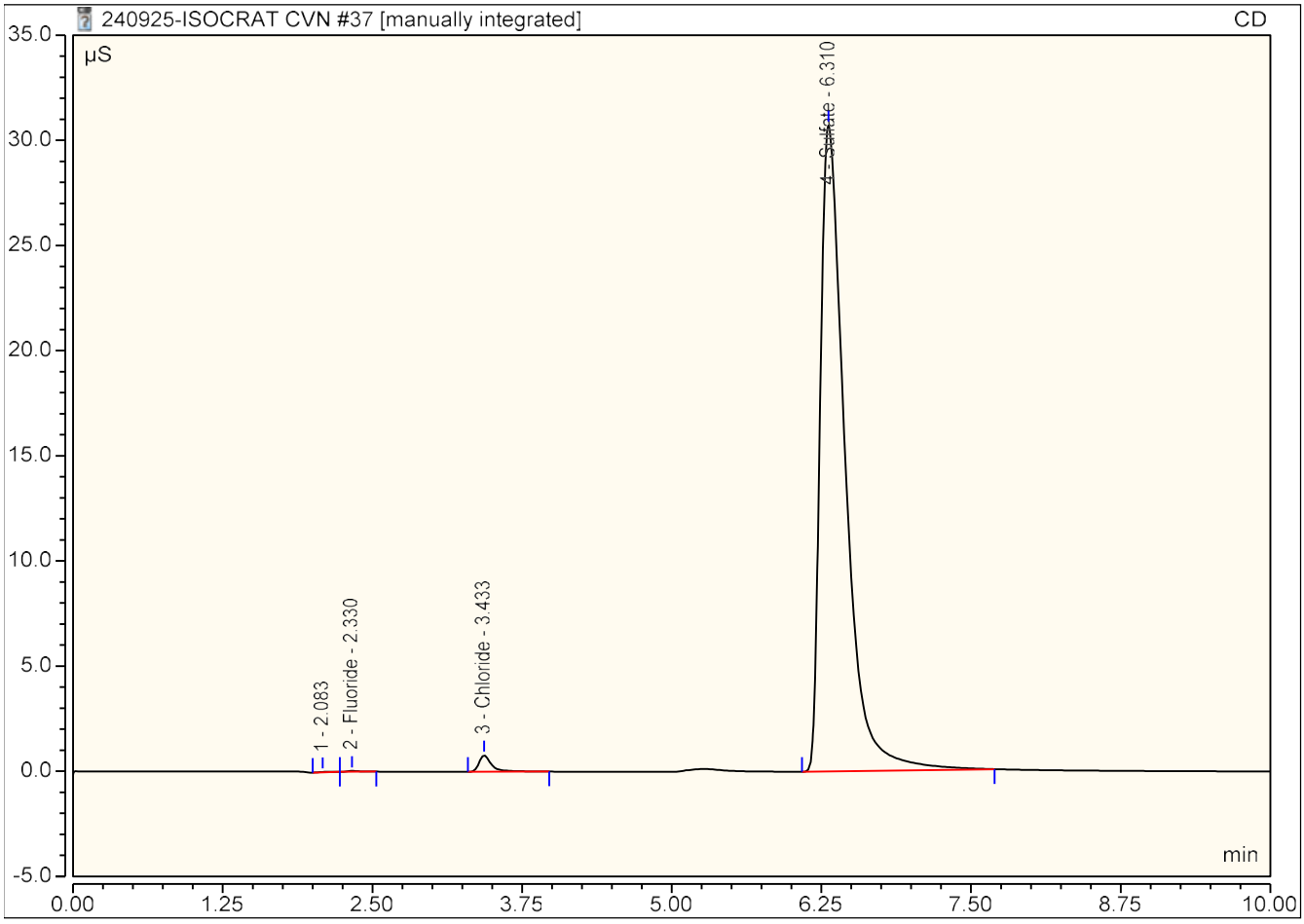
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.33	**Fluoride**	BMB	0.017	0.163	1.8867
2	3.43	**Chloride**	BMB*	0.448	3.745	32.4674
3	6.09	**Sulfate**	BMB^	29.508	81.567	2557.5525
TOTAL:				29.97	85.47	2591.91



Peak Integration Report

Sample Name:	**L2453081-06; 100X SO4 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**100.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 17:50**	*Run Time:*	**10.00**

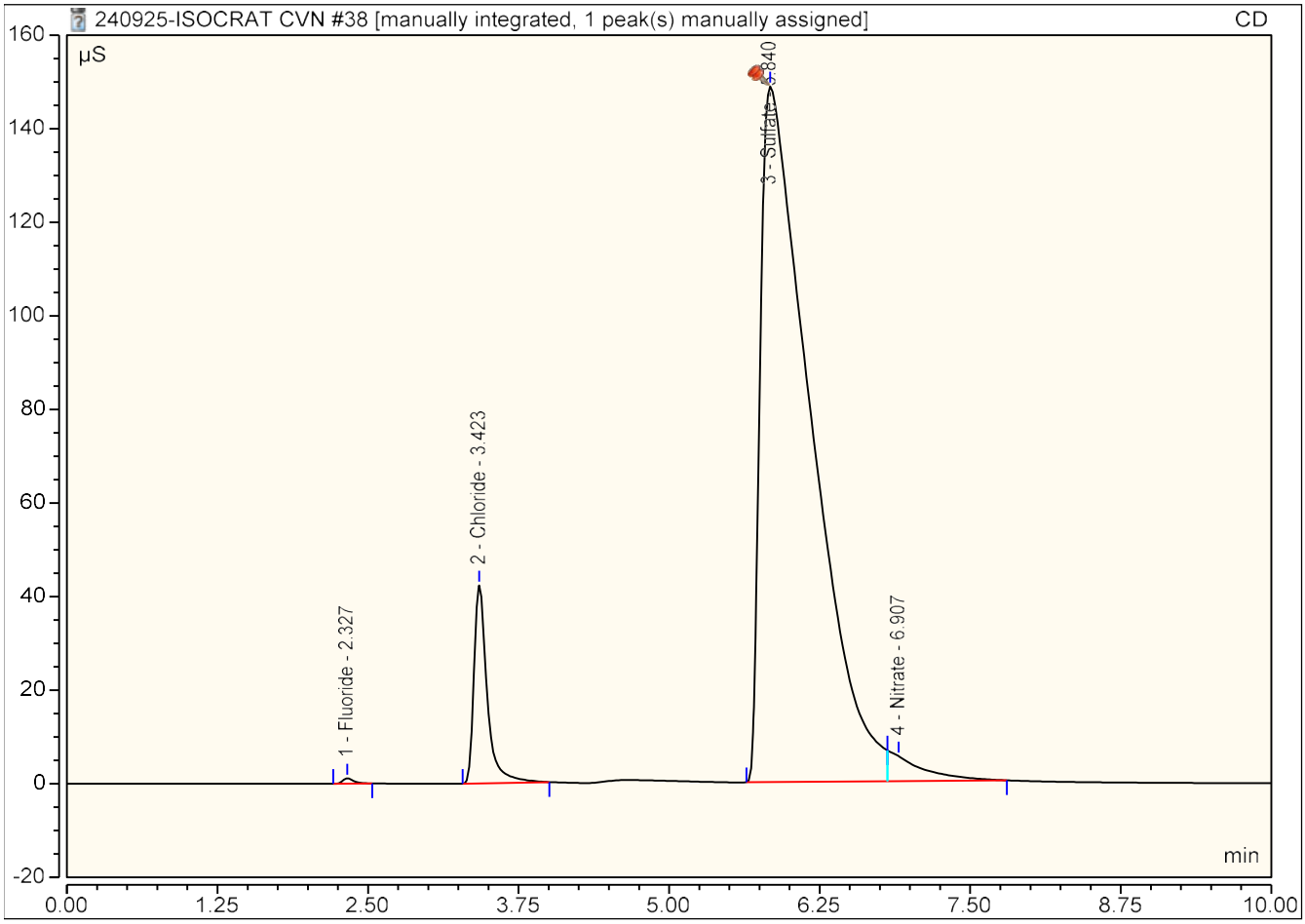
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.004	0.036	5.1810
3	3.43	**Chloride**	BMB*	0.095	0.783	43.8359
4	6.31	**Sulfate**	BMB	7.381	30.724	2579.6683
TOTAL:				7.48	31.54	2628.69



Peak Integration Report

Sample Name:	**L2453081-07 CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 18:02**	*Run Time:*	**10.00**

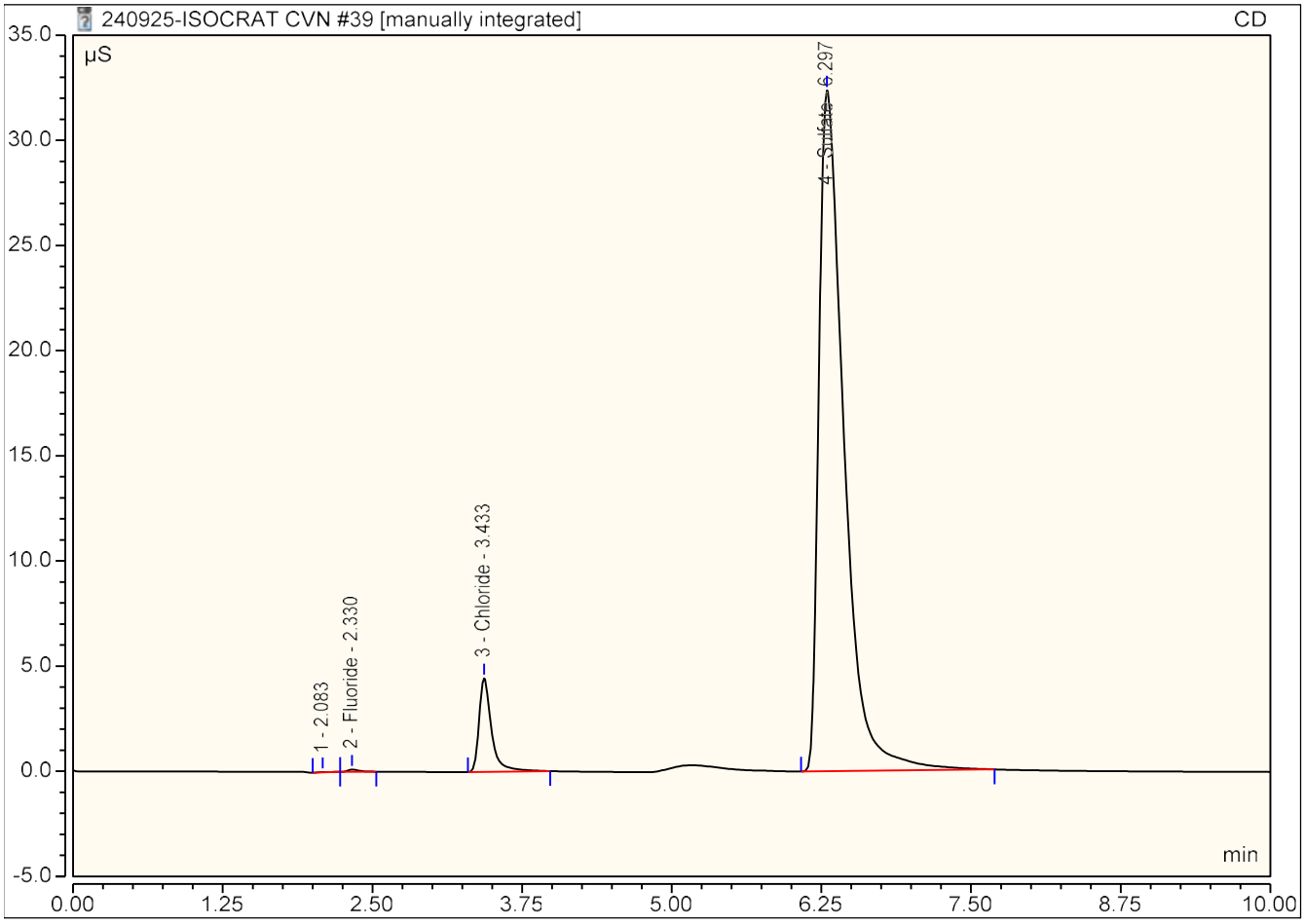
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.33	**Fluoride**	BMB	0.120	1.140	0.2642
2	3.42	**Chloride**	BMB*	5.385	42.330	13.3525
3	5.84	**Sulfate**	BM *^	71.998	148.668	249.2147
4	6.91	**Nitrate**	MB*	1.914	5.316	1.5254
TOTAL:				79.42	197.45	264.36



Peak Integration Report

Sample Name:	**L2453081-07; 10X SO4 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 18:14**	*Run Time:*	**10.00**

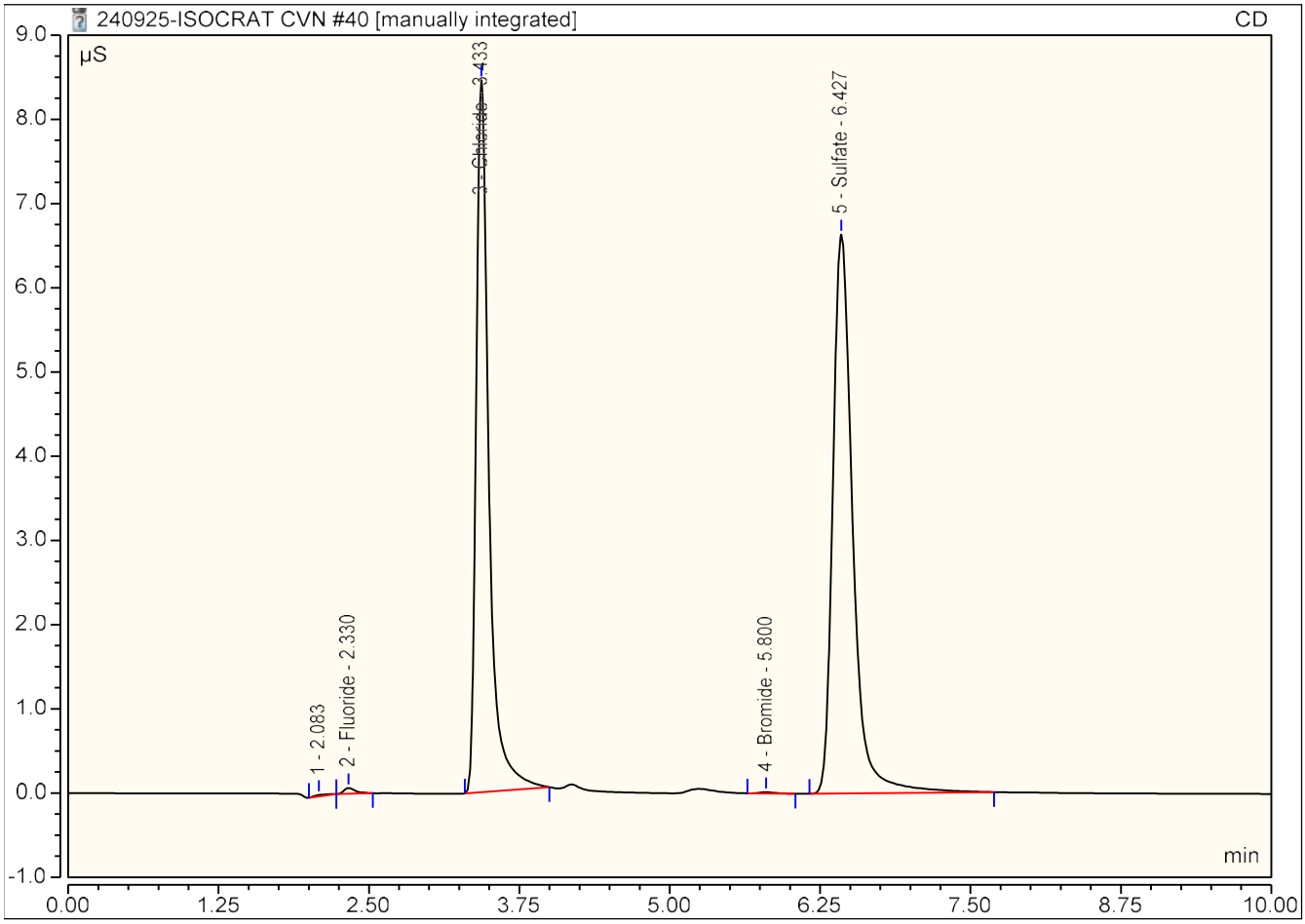
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.012	0.108	0.6604
3	3.43	**Chloride**	BMB*	0.535	4.450	15.1112
4	6.30	**Sulfate**	BMB	7.857	32.368	274.4308
TOTAL:				8.40	36.93	290.20



Peak Integration Report

Sample Name:	**XL2453081-08; 100X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**100.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 18:26**	*Run Time:*	**10.00**

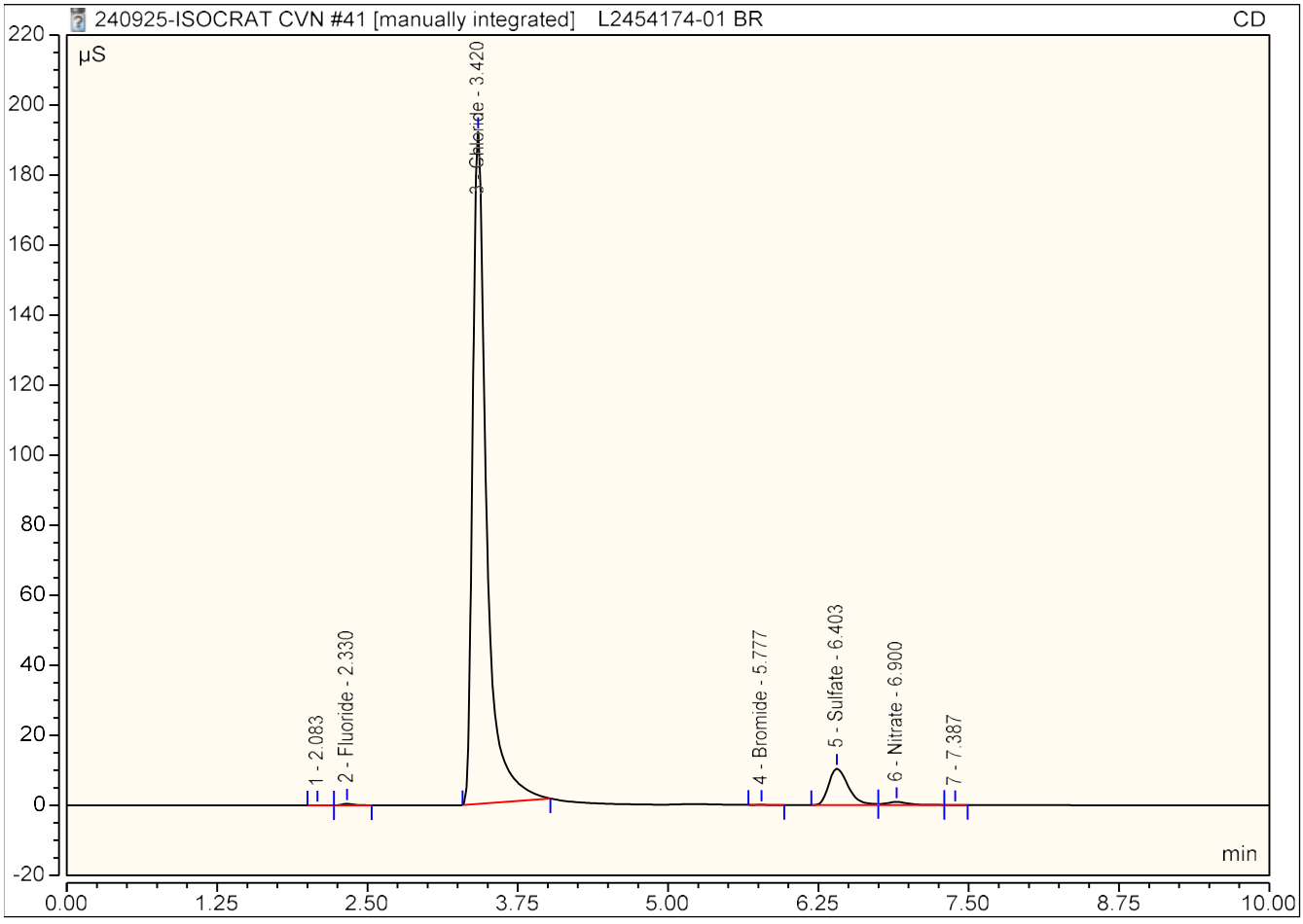
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.008	0.068	5.8238
3	3.43	**Chloride**	BMB*	1.039	8.457	274.2047
4	5.80	**Bromide**	BMB	0.002	0.016	5.2124
5	6.43	**Sulfate**	BMB	1.272	6.637	467.3121
TOTAL:				2.32	15.18	752.55



Peak Integration Report

Sample Name:	**L2454174-01 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 18:38**	*Run Time:*	**10.00**

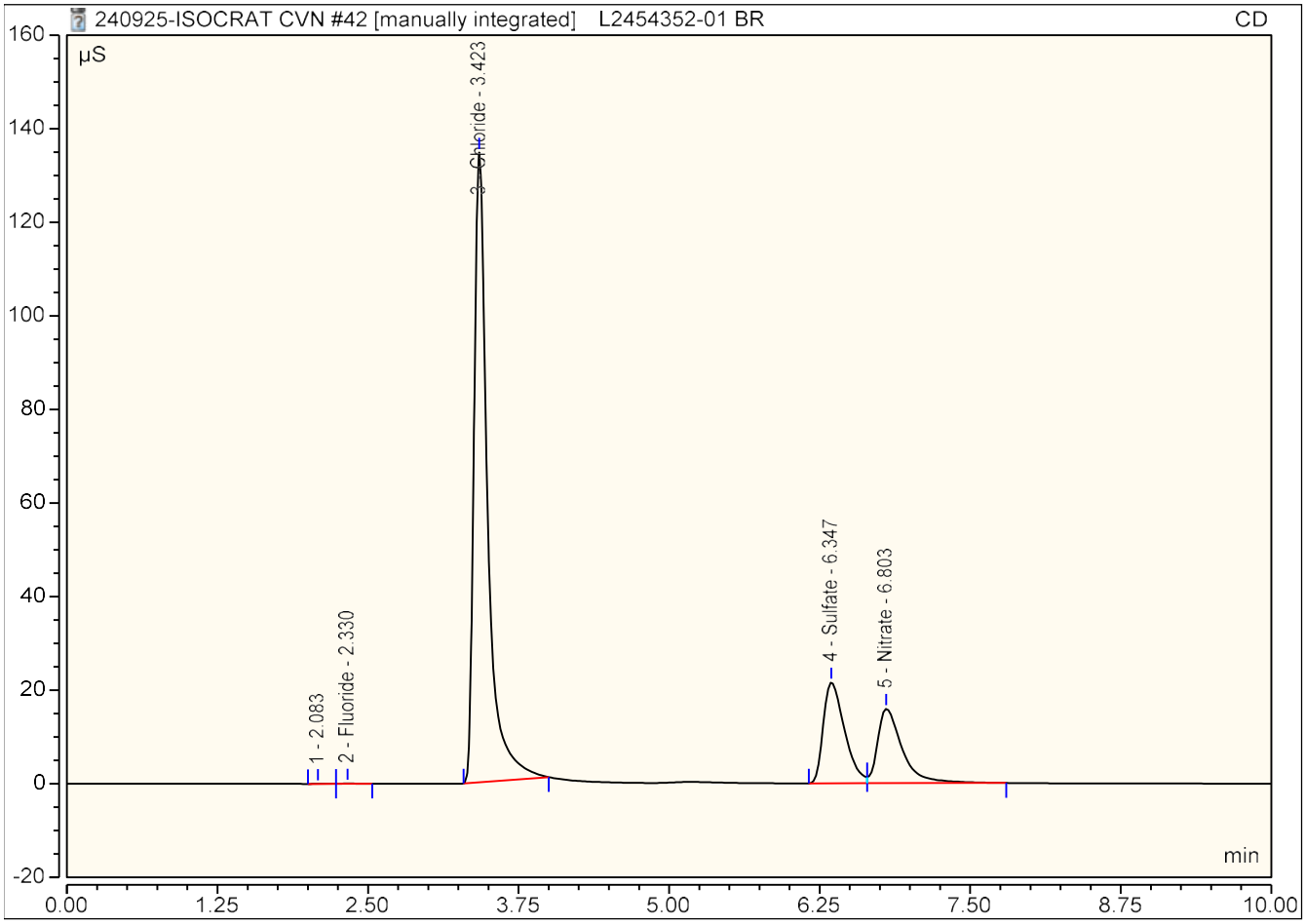
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.050	0.490	0.1359
3	3.42	**Chloride**	BMB*	25.748	191.853	63.0702
4	5.78	**Bromide**	BMB	0.003	0.019	0.0553
5	6.40	**Sulfate**	BM *	1.962	10.409	7.0603
6	6.90	**Nitrate**	Mb*	0.177	0.858	0.1641
TOTAL:				27.94	203.63	70.49



Peak Integration Report

Sample Name:	**L2454352-01 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 18:51**	*Run Time:*	**10.00**

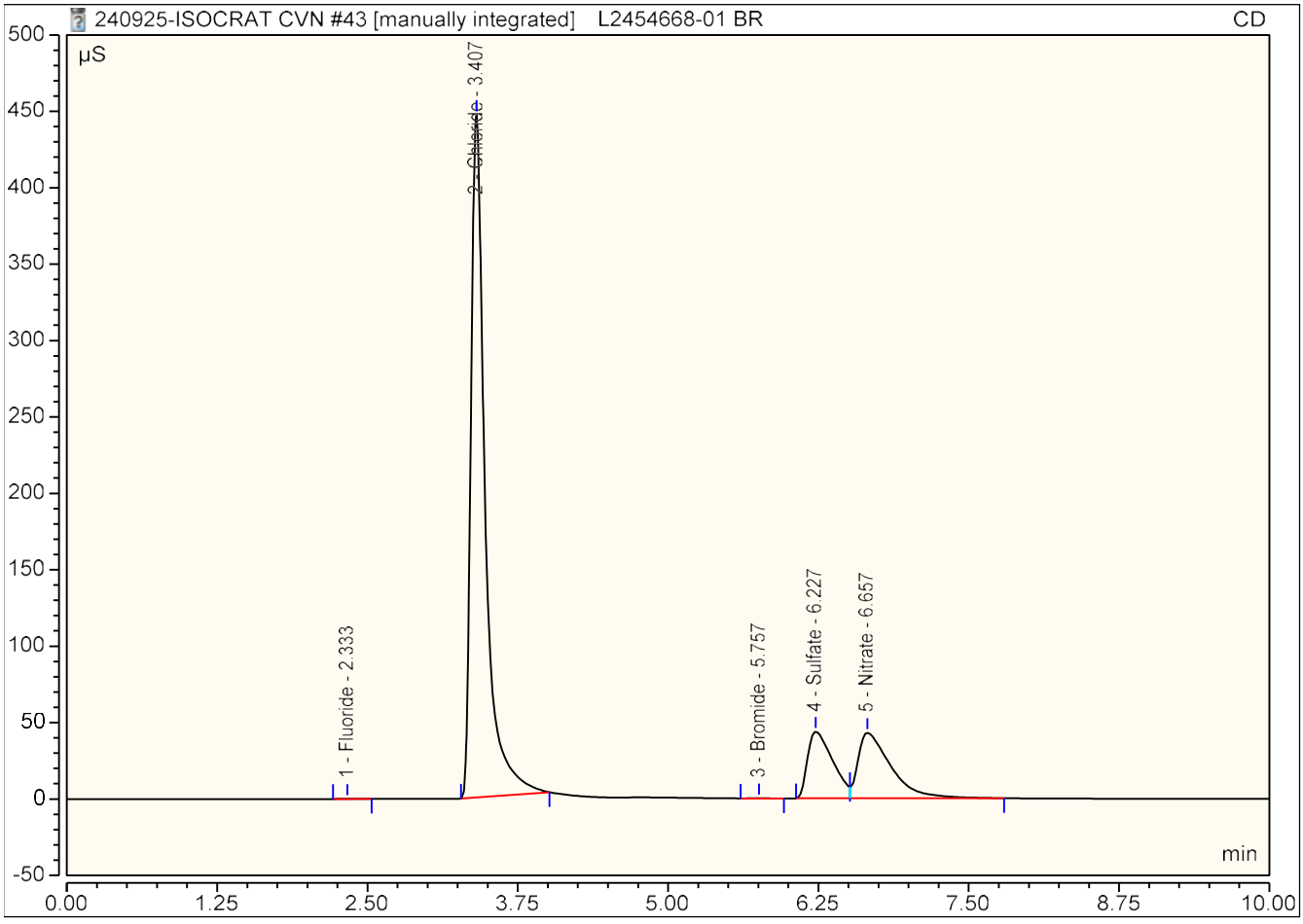
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.008	0.067	0.0584
3	3.42	**Chloride**	BMB*	17.653	134.585	43.3047
4	6.35	**Sulfate**	BM *	4.404	21.558	15.5032
5	6.80	**Nitrate**	MB*	3.756	15.907	2.9693
TOTAL:				25.82	172.12	61.84



Peak Integration Report

Sample Name:	**L2454668-01 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 19:03**	*Run Time:*	**10.00**

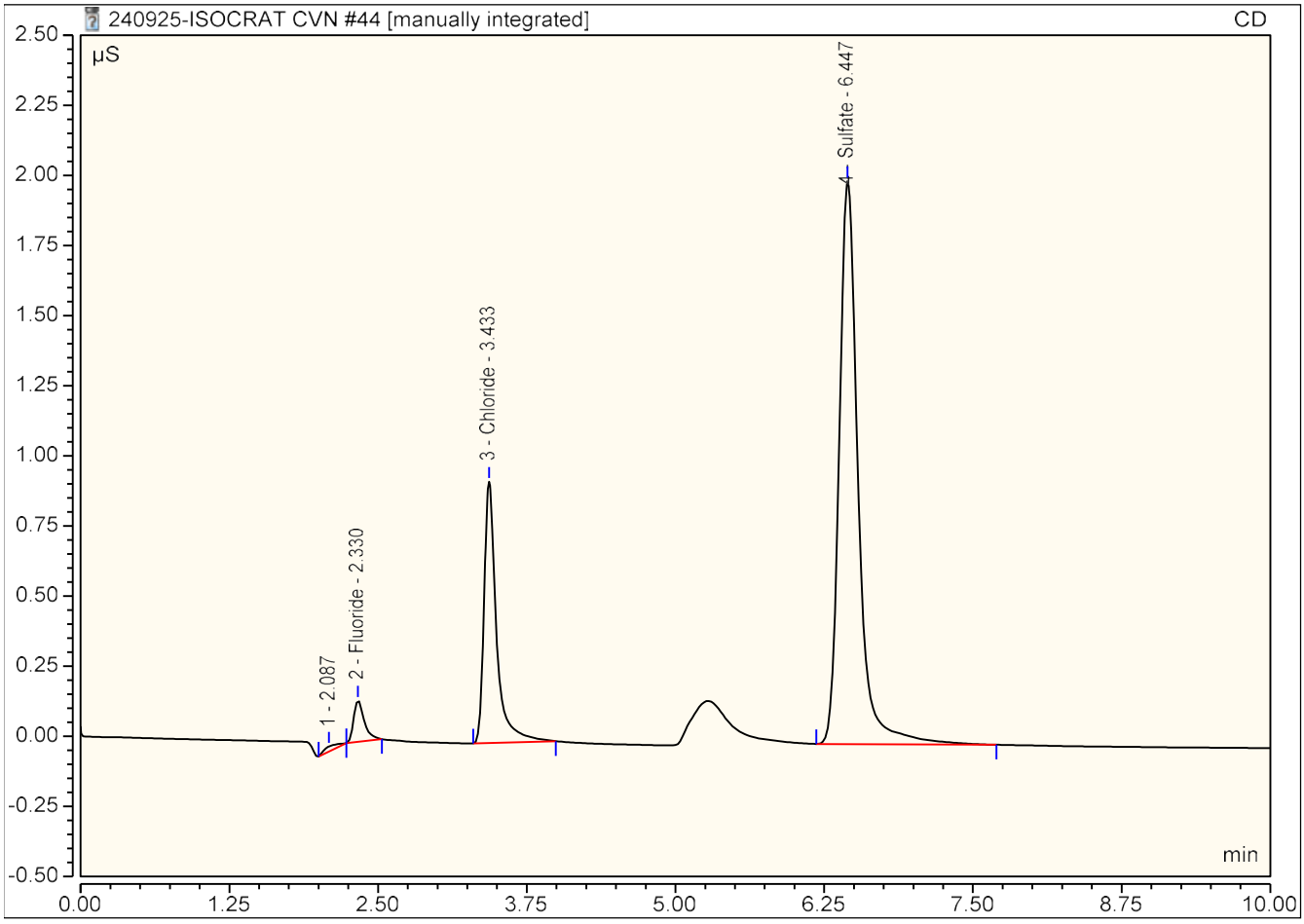
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.33	**Fluoride**	BMB	0.021	0.159	0.0831
2	3.41	**Chloride**	BMB*	61.276	446.728	149.8103
3	5.76	**Bromide**	BMB	0.035	0.247	0.3222
4	6.23	**Sulfate**	BM *	10.533	43.622	36.6936
5	6.66	**Nitrate**	MB*	13.493	42.861	10.6018
TOTAL:				85.36	533.62	197.51



Peak Integration Report

Sample Name:	**XL2454668-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 19:15**	*Run Time:*	**10.00**

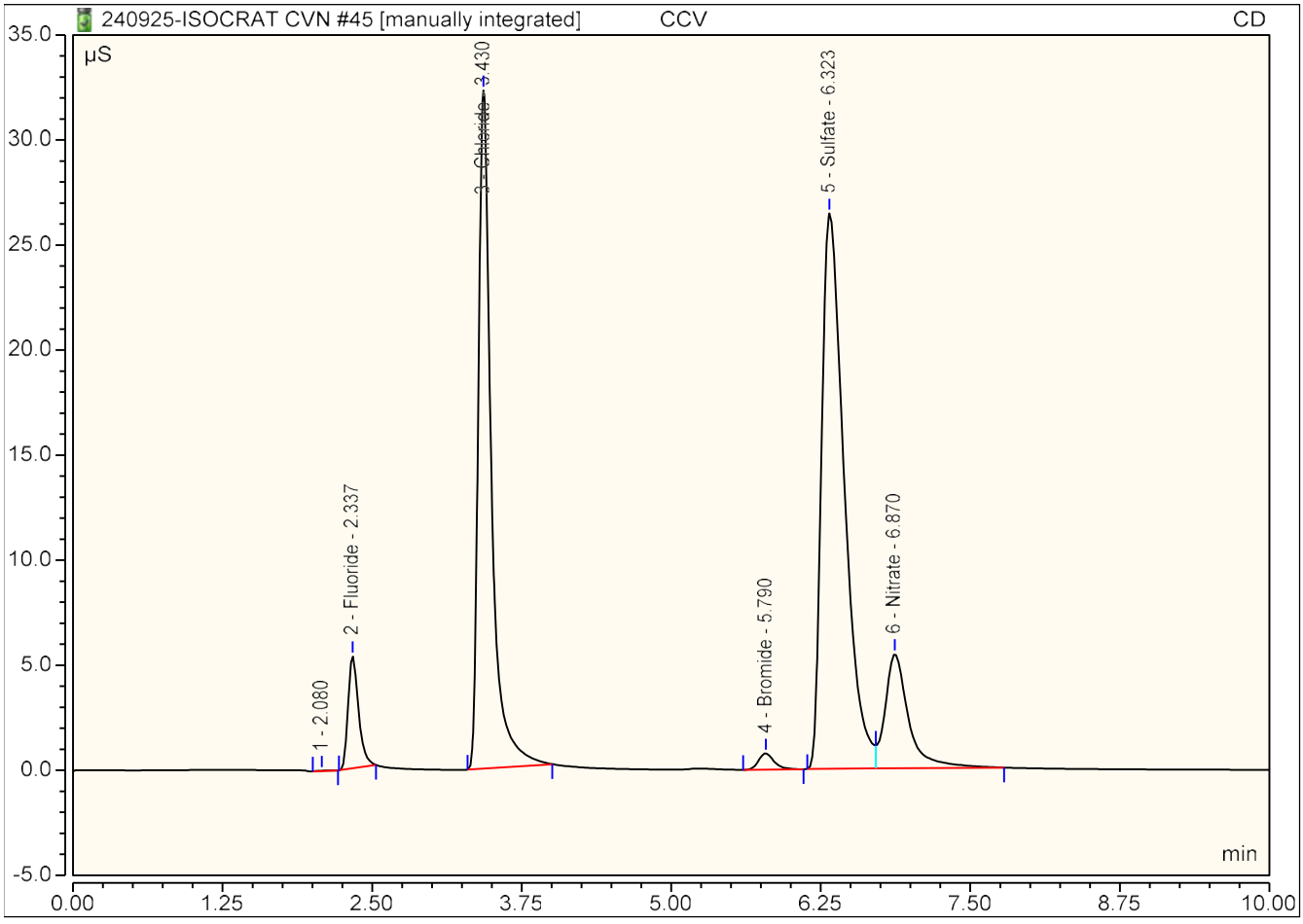
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.015	0.147	0.7237
3	3.43	**Chloride**	BMB*	0.113	0.932	4.8040
4	6.45	**Sulfate**	BMB	0.371	2.007	15.5831
TOTAL:				0.50	3.09	21.11



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 19:27**	*Run Time:*	**10.00**

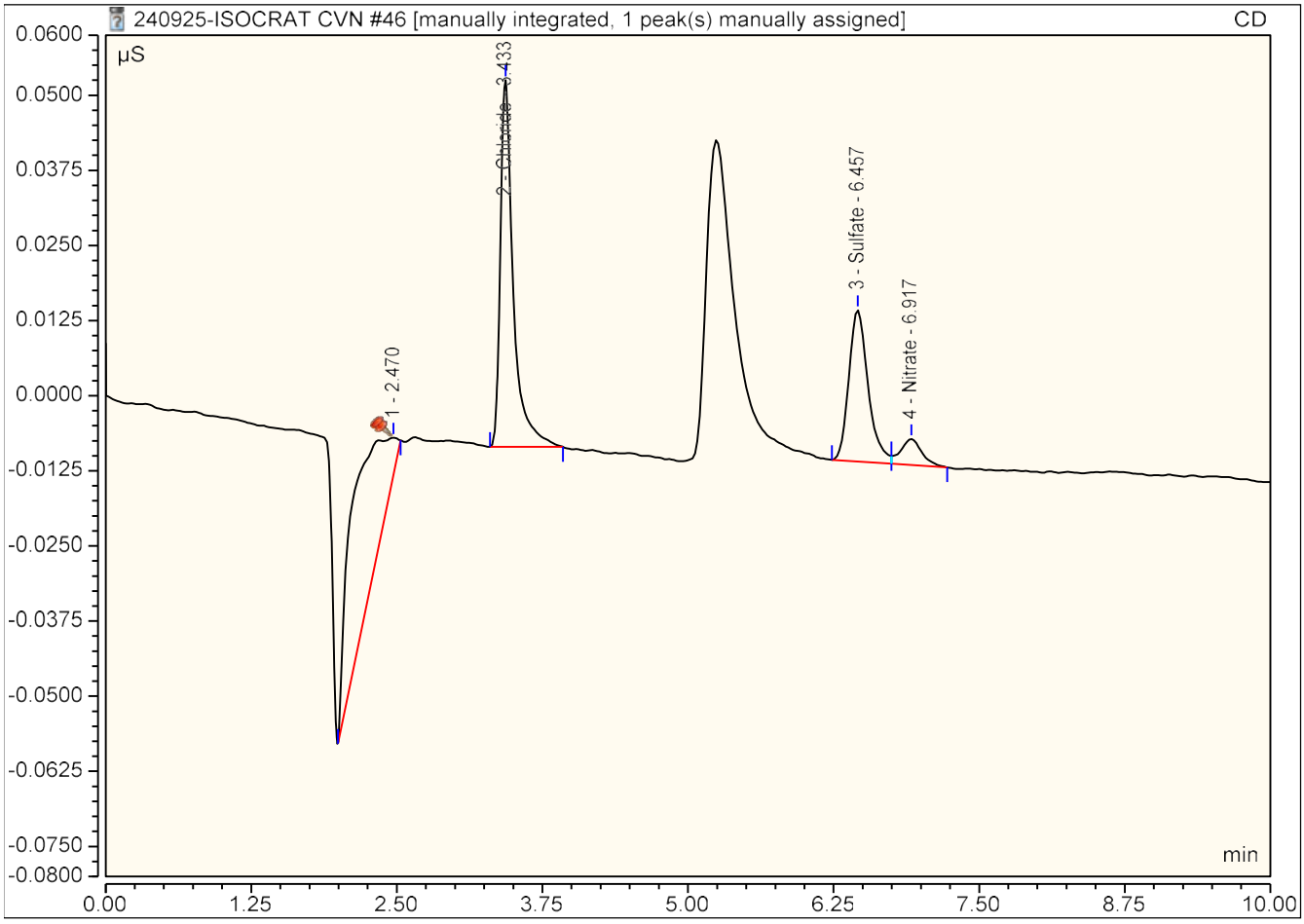
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	0.543	5.344	1.0347
3	3.43	**Chloride**	BMB*	4.065	32.284	10.1306
4	5.79	**Bromide**	BMB	0.117	0.778	1.0073
5	6.32	**Sulfate**	BM *	5.784	26.435	20.2744
6	6.87	**Nitrate**	MB*	1.240	5.445	0.9972
TOTAL:				11.75	70.29	33.44



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 19:39**	*Run Time:*	**10.00**

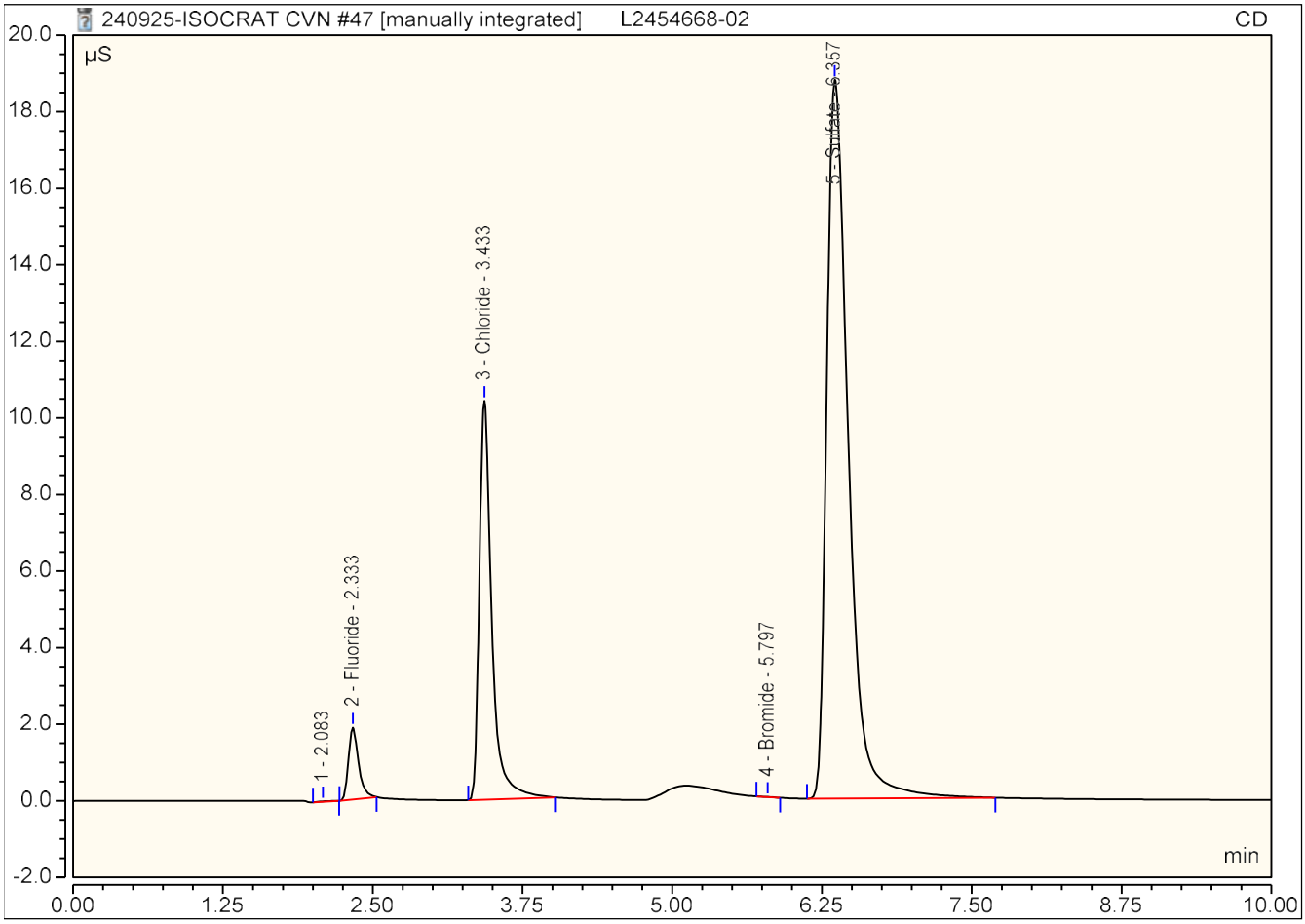
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.43	**Chloride**	BMB*	0.008	0.061	0.2247
3	6.46	**Sulfate**	BM *	0.005	0.025	0.2932
4	6.92	**Nitrate**	MB*	0.001	0.004	0.0260
TOTAL:				0.01	0.09	0.54



Peak Integration Report

Sample Name:	**L2454668-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 19:51**	*Run Time:*	**10.00**

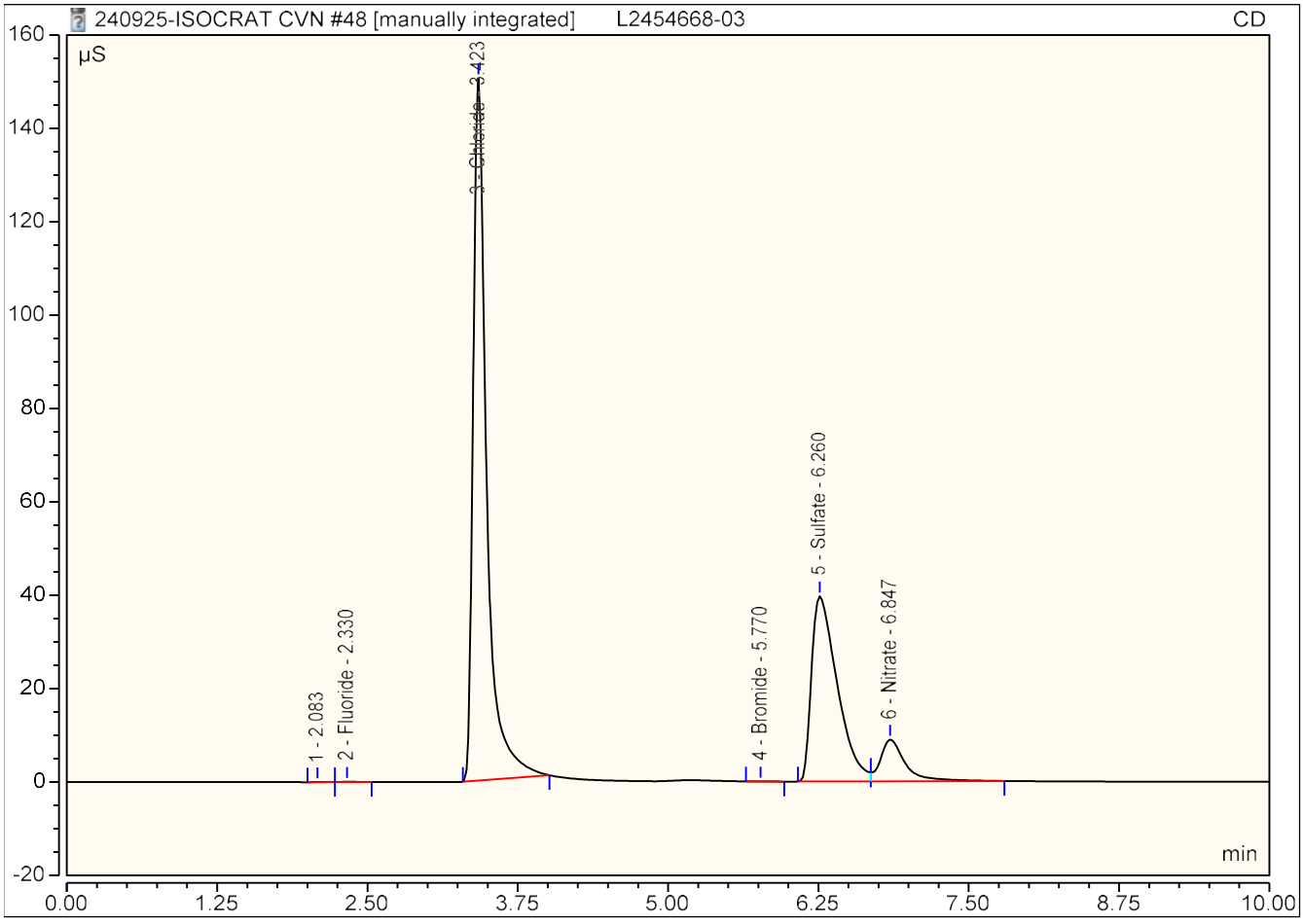
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.184	1.877	0.3796
3	3.43	**Chloride**	BMB*	1.258	10.418	3.2762
4	5.80	**Bromide**	BMB	0.000	0.003	0.0354
5	6.36	**Sulfate**	BMB	3.943	18.773	13.9091
TOTAL:				5.38	31.07	17.60



Peak Integration Report

Sample Name:	**L2454668-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 20:03**	*Run Time:*	**10.00**

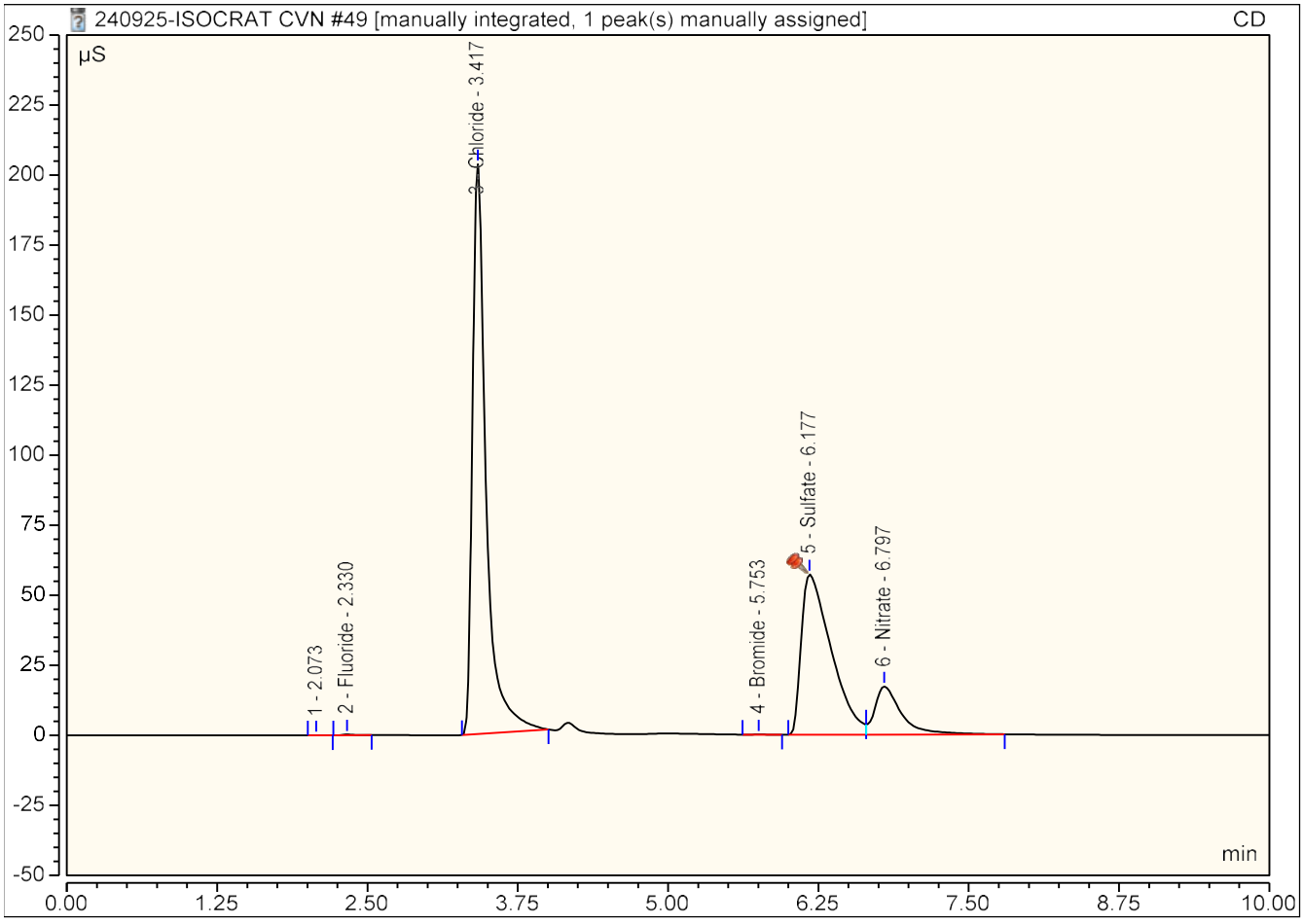
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.009	0.080	0.0609
3	3.42	**Chloride**	BMB*	19.536	150.437	47.9020
4	5.77	**Bromide**	BMB	0.005	0.037	0.0736
5	6.26	**Sulfate**	BM *	9.811	39.676	34.1982
6	6.85	**Nitrate**	MB*	2.133	8.959	1.6970
TOTAL:				31.49	199.19	83.93



Peak Integration Report

Sample Name:	**L2454668-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 20:15**	*Run Time:*	**10.00**

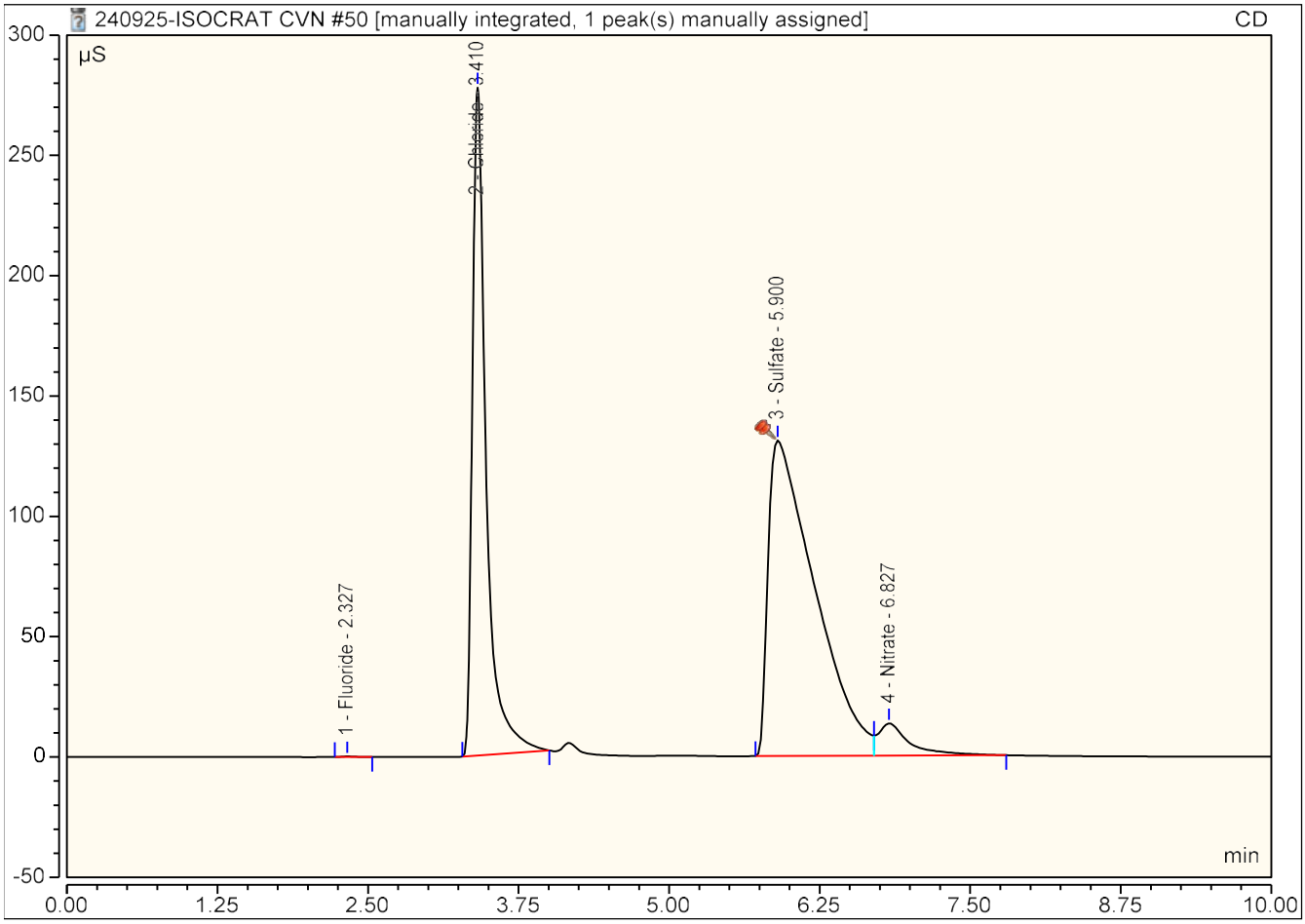
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.030	0.257	0.0985
3	3.42	**Chloride**	BMB*	26.705	203.413	65.4048
4	5.75	**Bromide**	BMB	0.010	0.074	0.1172
5	6.18	**Sulfate**	BM *^	16.434	57.207	57.0976
6	6.80	**Nitrate**	MB*	4.397	17.157	3.4714
TOTAL:				47.57	278.11	126.19



Peak Integration Report

Sample Name:	**L2454668-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 20:27**	*Run Time:*	**10.00**

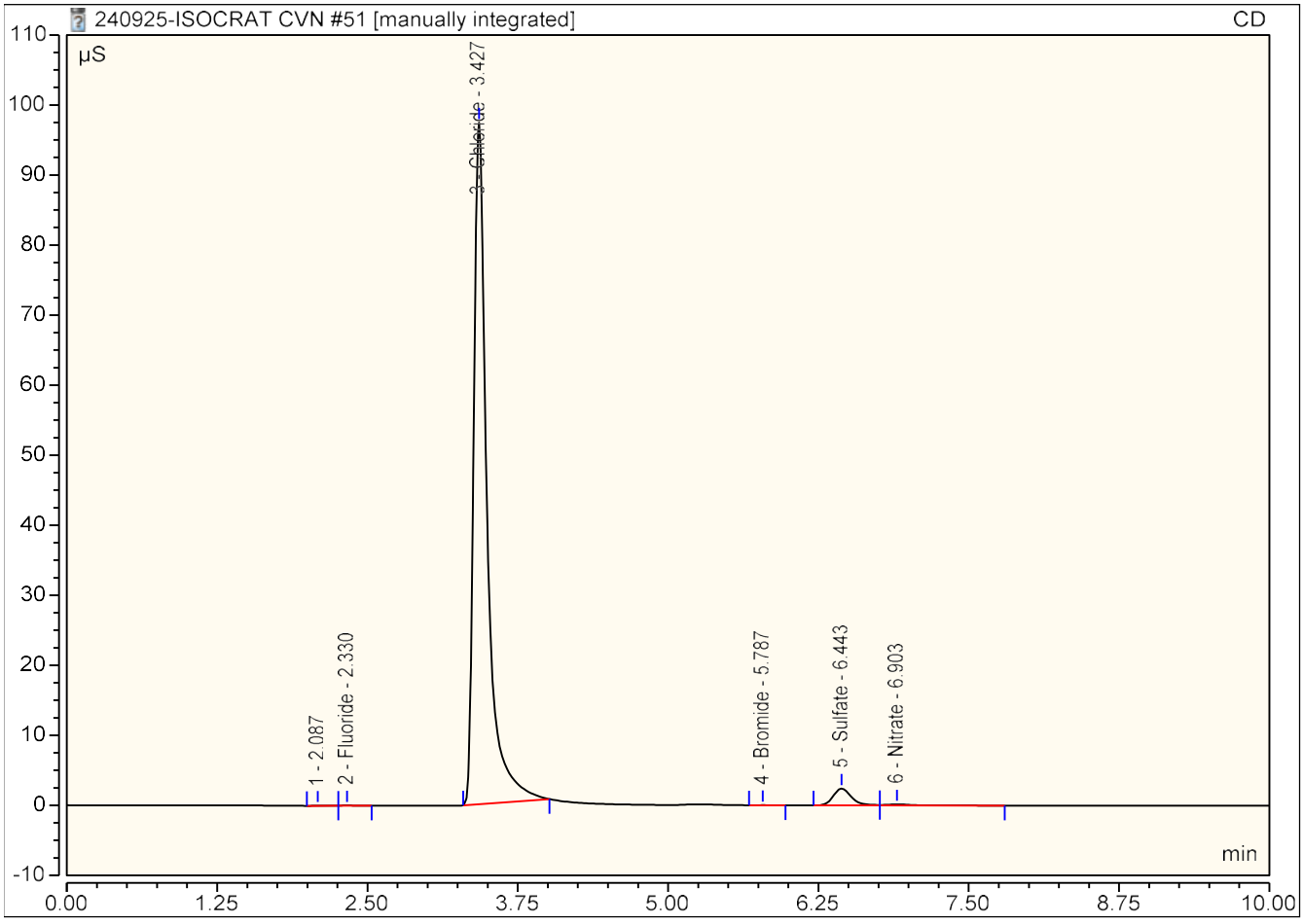
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.33	**Fluoride**	BMB	0.027	0.244	0.0932
2	3.41	**Chloride**	BMB*	36.735	277.639	89.8952
3	5.90	**Sulfate**	BM *^	58.629	131.092	202.9926
4	6.83	**Nitrate**	MB*	4.039	13.373	3.1909
TOTAL:				99.43	422.35	296.17



Peak Integration Report

Sample Name:	**L2454654-02; 25X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 20:39**	*Run Time:*	**10.00**

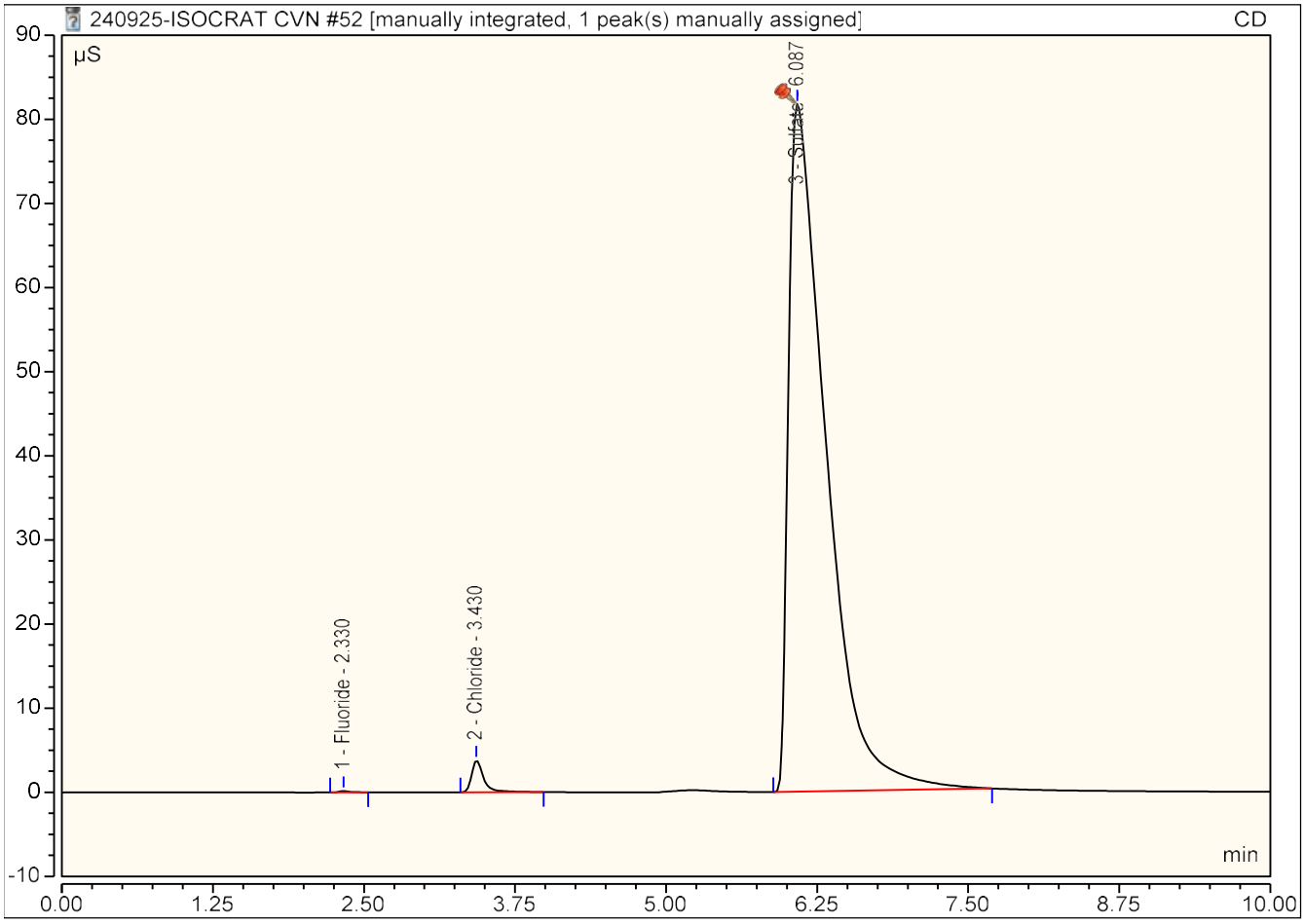
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.002	0.013	1.1843
3	3.43	**Chloride**	BMB*	12.470	97.304	766.2693
4	5.79	**Bromide**	BMB	0.002	0.013	1.1844
5	6.44	**Sulfate**	BM *	0.424	2.396	43.5868
6	6.90	**Nitrate**	MB*	0.042	0.167	1.4602
TOTAL:				12.94	99.89	813.68



Peak Integration Report

Sample Name:	**L2453081-06; 25X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 20:51**	*Run Time:*	**10.00**

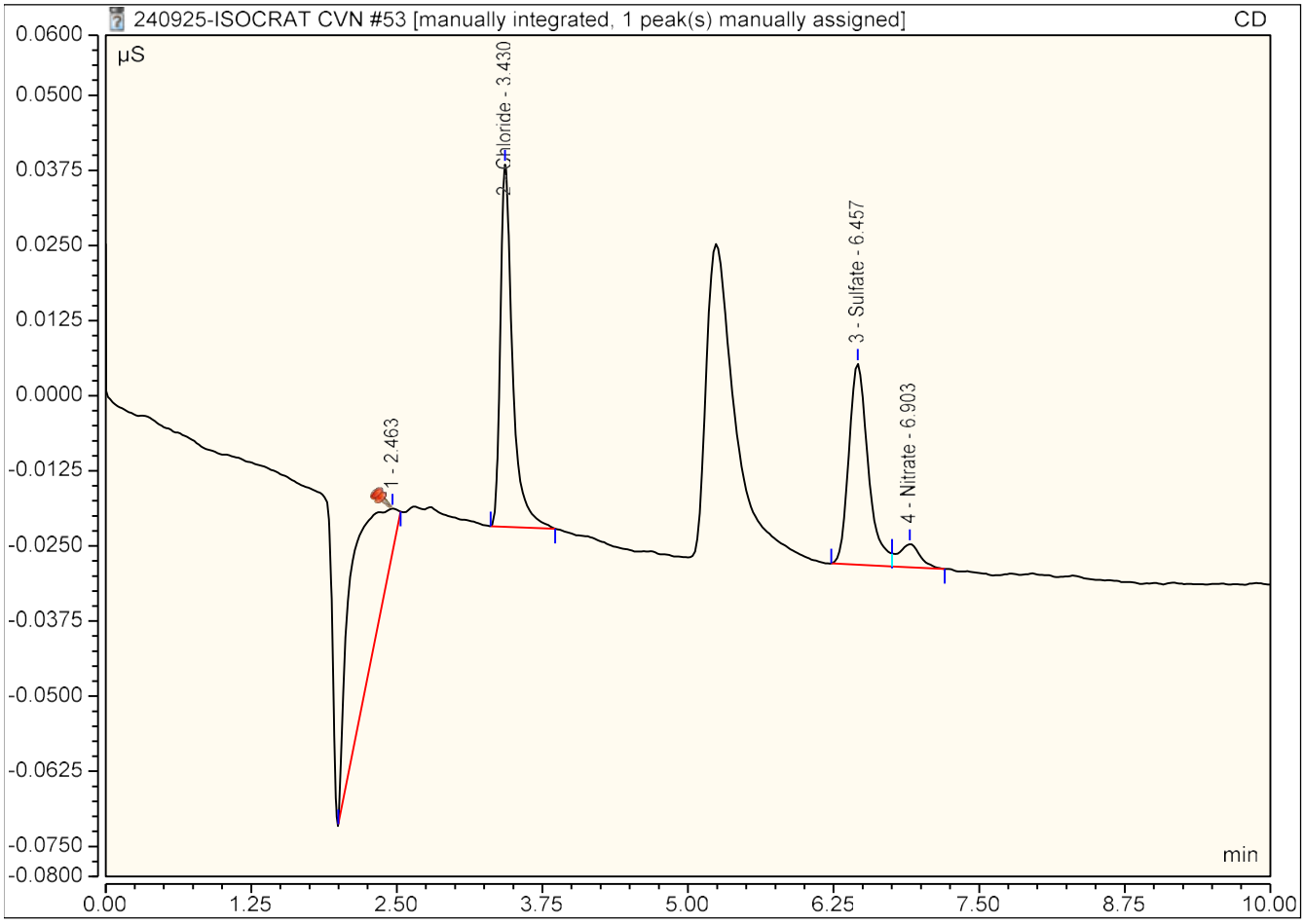
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.33	**Fluoride**	BMB	0.016	0.153	1.8355
2	3.43	**Chloride**	BMB*	0.440	3.778	31.9704
3	6.09	**Sulfate**	BMB^	29.429	81.670	2550.7389
TOTAL:				29.88	85.60	2584.54



Peak Integration Report

Sample Name:	**RINSE**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 21:03**	*Run Time:*	**10.00**

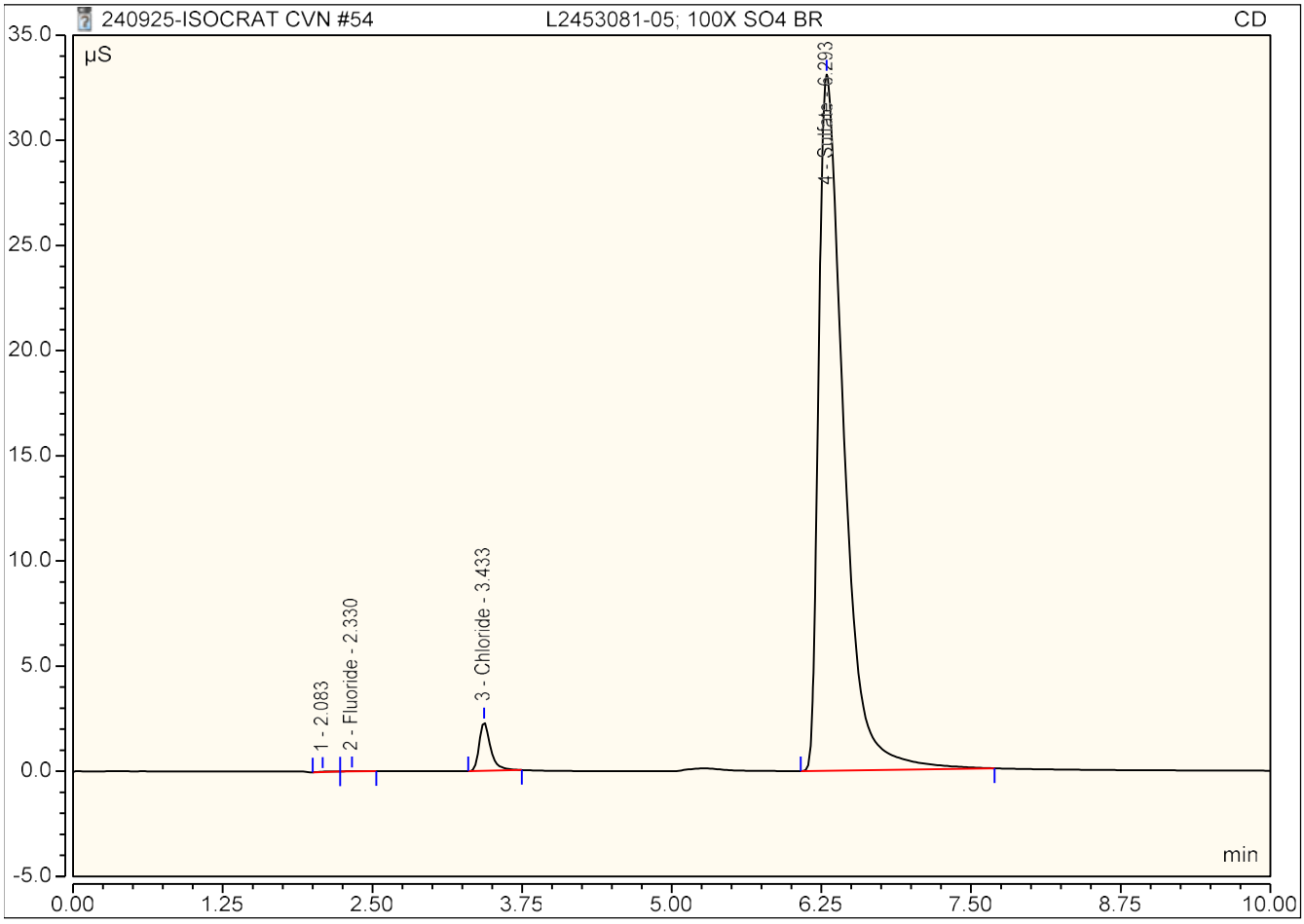
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.43	**Chloride**	BMB*	0.007	0.060	0.2234
3	6.46	**Sulfate**	BM *	0.006	0.033	0.2988
4	6.90	**Nitrate**	MB*	0.001	0.004	0.0259
TOTAL:				0.01	0.10	0.55



Peak Integration Report

Sample Name:	**L2453081-05; 100X SO4 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**100.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 21:16**	*Run Time:*	**10.00**

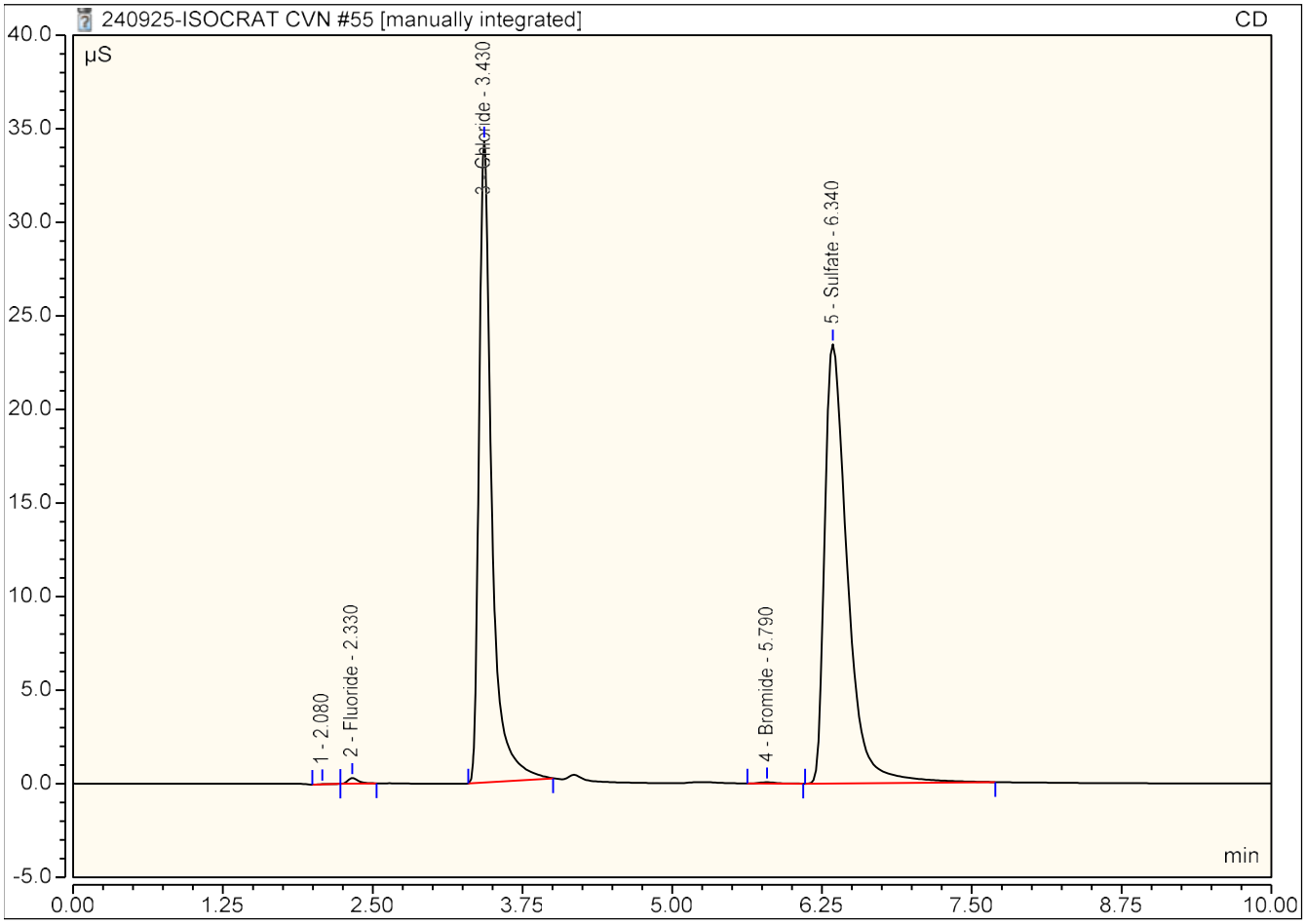
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.001	0.009	4.6748
3	3.43	**Chloride**	BMB	0.254	2.311	82.6818
4	6.29	**Sulfate**	BMB	8.033	33.105	2805.2935
TOTAL:				8.29	35.43	2892.65



Peak Integration Report

Sample Name:	**L2453081-08; 25X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 21:28**	*Run Time:*	**10.00**

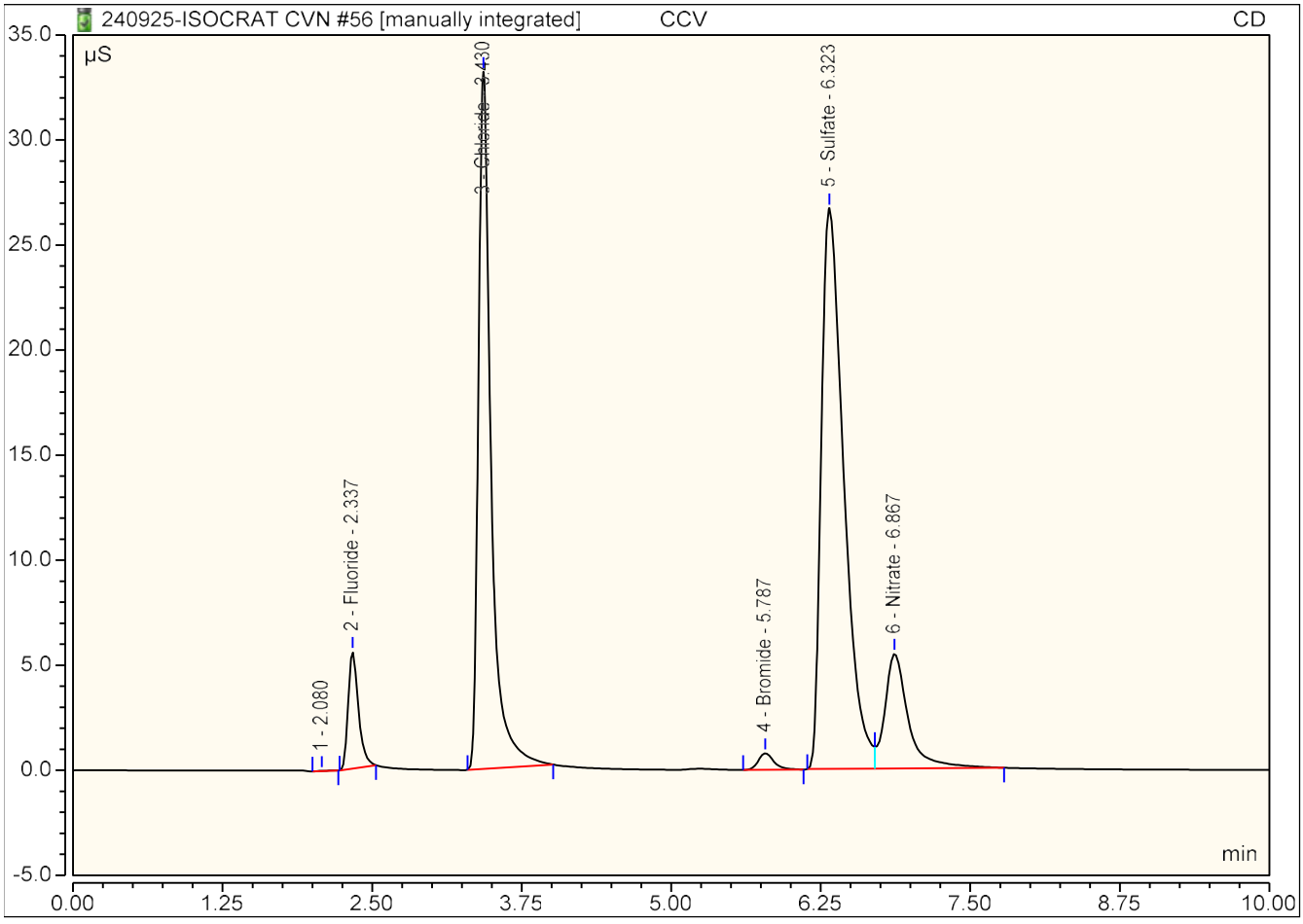
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.031	0.311	2.5305
3	3.43	**Chloride**	BMB*	4.239	34.258	263.8847
4	5.79	**Bromide**	BMB	0.010	0.067	2.9452
5	6.34	**Sulfate**	BMB	5.135	23.461	450.8004
TOTAL:				9.42	58.10	720.16



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 21:40**	*Run Time:*	**10.00**

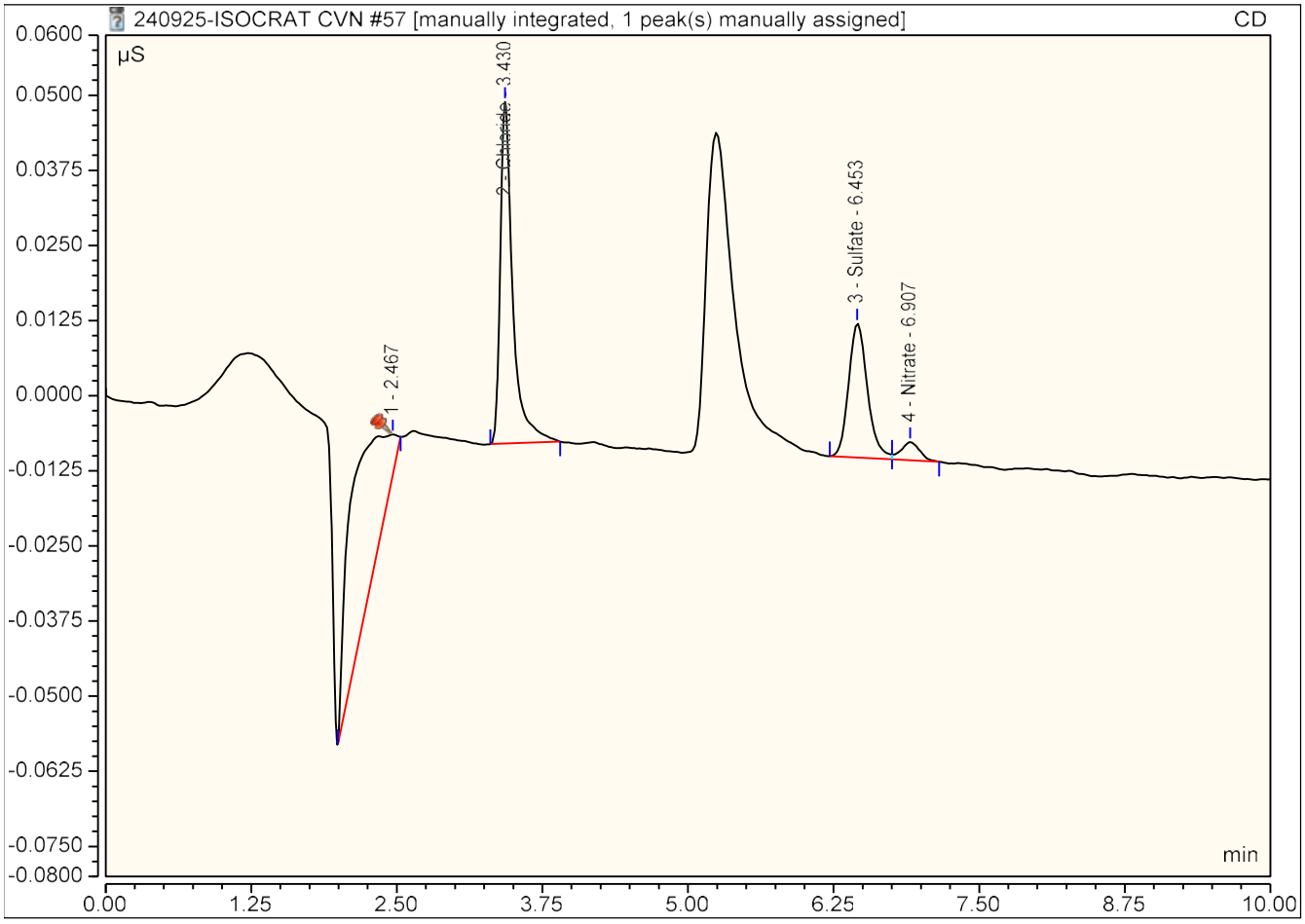
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	0.553	5.562	1.0534
3	3.43	**Chloride**	BMB*	4.075	33.177	10.1546
4	5.79	**Bromide**	BMB	0.118	0.792	1.0136
5	6.32	**Sulfate**	BM *	5.796	26.685	20.3179
6	6.87	**Nitrate**	MB*	1.235	5.469	0.9929
TOTAL:				11.78	71.69	33.53



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Sep-2024 / 21:52**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.43	**Chloride**	BMB*	0.007	0.057	0.2227
3	6.45	**Sulfate**	BM *	0.004	0.022	0.2910
4	6.91	**Nitrate**	MB*	0.001	0.003	0.0257
TOTAL:				0.01	0.08	0.54



Anion Summary Report

No.	Name	Dilution	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrate	Amount CD Sulfate	Amount CD Bromide
1	BLANK	1.0	n.a.	0.2129	n.a.	0.2810	n.a.
2	STD 0.5	1.0	0.0592	0.3873	0.0442	0.6237	0.0525
3	STD 1.0	1.0	0.0738	0.5947	0.0646	1.0491	0.0753
4	STD 2.0	1.0	0.1840	1.9971	0.1868	3.9561	0.1890
5	STD 3.0	1.0	0.4607	4.9336	0.4717	9.9320	0.4440
6	STD 4.0	1.0	1.9885	19.7203	2.0078	39.8861	2.0141
7	STD 5.0	1.0	5.0087	50.1170	5.2021	100.0530	5.2575
8	RINSE	1.0	0.0450	0.2169	n.a.	0.2799	n.a.
9	CCV	1.0	1.0346	10.0688	1.0007	20.1082	1.0376
10	CCB	1.0	0.0456	0.2133	n.a.	0.2881	n.a.
11	ICV	1.0	0.8412	8.2154	0.7284	8.0161	0.8292
12	ICB	1.0	n.a.	0.2125	n.a.	0.2825	n.a.
13	BLK	1.0	n.a.	0.2139	0.0255	0.2807	n.a.
14	LCS	1.0	0.8414	8.2311	0.7228	8.0623	0.8259
15	L2454719-01	1.0	0.6864	74.6462	0.5354	9.0945	n.a.
16	L2454719-01; 10X	10.0	0.9573	79.3171	0.7460	10.7923	0.3587
17	L2454719-02 MS	1.0	0.3972	4.0294	0.3837	8.0462	0.3937
18	L2454719-02 DUP	1.0	n.a.	0.2194	0.0259	0.2944	n.a.
19	L2454719-02	1.0	n.a.	0.2182	0.0267	0.2937	n.a.
20	L2454719-03	1.0	n.a.	0.2230	0.0257	0.2819	n.a.
21	CCV	1.0	1.0261	10.1009	1.0047	20.1675	1.0071
22	CCB	1.0	n.a.	0.2222	0.0259	0.2917	n.a.
23	L2454719-04 MS	1.0	0.4158	4.1645	0.3986	8.3164	0.4023
24	L2454719-04 DUP	1.0	0.0461	0.2097	n.a.	0.2851	n.a.
25	L2454719-04	1.0	0.0460	0.2093	0.0254	0.2846	n.a.
26	L2453081-01 SO4 BR	1.0	0.3666	50.8857	n.a.	18.4896	0.2794
27	L2453081-01; 10X CL	10.0	0.7374	57.6083	n.a.	21.1608	0.5036
28	L2453081-02	1.0	0.4633	17.1776	n.a.	55.2256	0.0900
29	L2453081-03; 25X CL	25.0	n.a.	77.1373	n.a.	2795.1462	n.a.
30	L2453081-03; 100X SO4 BR	100.0	4.6645	85.7222	n.a.	2793.7336	n.a.
31	L2453081-04	1.0	0.2862	10.2856	0.3415	28.8998	n.a.
32	L2453081-05; 10X CL	10.0	0.6257	82.8325	n.a.	3016.5779	n.a.
33	CCV	1.0	1.0475	10.1123	1.0058	20.2822	1.0126
34	CCB	1.0	n.a.	0.2223	0.0258	0.2968	n.a.
35	XL2453081-05	1.0	0.2062	78.4361	n.a.	2695.3080	n.a.
36	XL2453081-06; 25X	25.0	1.8867	32.4674	n.a.	2557.5525	n.a.
37	L2453081-06; 100X SO4 BR	100.0	5.1810	43.8359	n.a.	2579.6683	n.a.
38	L2453081-07 CL	1.0	0.2642	13.3525	1.5254	249.2147	n.a.
39	L2453081-07; 10X SO4 BR	10.0	0.6604	15.1112	n.a.	274.4308	n.a.
40	XL2453081-08; 100X	100.0	5.8238	274.2047	n.a.	467.3121	5.2124
41	L2454174-01 BR	1.0	0.1359	63.0702	0.1641	7.0603	0.0553
42	L2454352-01 BR	1.0	0.0584	43.3047	2.9693	15.5032	n.a.

43	L2454668-01 BR	1.0	0.0831	149.8103	10.6018	36.6936	0.3222
44	XL2454668-02; 10X	10.0	0.7237	4.8040	n.a.	15.5831	n.a.
45	CCV	1.0	1.0347	10.1306	0.9972	20.2744	1.0073
46	CCB	1.0	n.a.	0.2247	0.0260	0.2932	n.a.
47	L2454668-02	1.0	0.3796	3.2762	n.a.	13.9091	0.0354
48	L2454668-03	1.0	0.0609	47.9020	1.6970	34.1982	0.0736
49	L2454668-04	1.0	0.0985	65.4048	3.4714	57.0976	0.1172
50	L2454668-05	1.0	0.0932	89.8952	3.1909	202.9926	n.a.
51	L2454654-02; 25X CL	25.0	1.1843	766.2693	1.4602	43.5868	1.1844
52	L2453081-06; 25X CL	25.0	1.8355	31.9704	n.a.	2550.7389	n.a.
53	RINSE	1.0	n.a.	0.2234	0.0259	0.2988	n.a.
54	L2453081-05; 100X SO4 BR	100.0	4.6748	82.6818	n.a.	2805.2935	n.a.
55	L2453081-08; 25X	25.0	2.5305	263.8847	n.a.	450.8004	2.9452
56	CCV	1.0	1.0534	10.1546	0.9929	20.3179	1.0136
57	CCB	1.0	n.a.	0.2227	0.0257	0.2910	n.a.
	Sum:	618.000	50.3176		42.1733	24099.4789	26.7394
	Average:	10.842	1.1182		1.1715	422.7979	0.9903
	Rel.Std.Dev:	236.975 %	1.3704		1.7078	2.2347	1.4023

Inject Time	Comment
05/Sep/2024 16:08	AU
05/Sep/2024 16:20	LOT#240905-0.5
05/Sep/2024 16:33	LOT#240905-1.0
05/Sep/2024 16:45	LOT#240905-2.0
05/Sep/2024 16:57	LOT#240905-3.0
05/Sep/2024 17:09	LOT#240905-4.0
05/Sep/2024 17:21	LOT#240905-5.0
25/Sep/2024 11:59	WG1976212-224
25/Sep/2024 12:12	LOT#240924-C
25/Sep/2024 12:24	CVN
25/Sep/2024 12:36	LOT#240924-I
25/Sep/2024 12:48	CVN
25/Sep/2024 13:00	CVN
25/Sep/2024 13:12	LOT#240924-I
25/Sep/2024 13:24	CVN
25/Sep/2024 13:36	CVN
25/Sep/2024 13:48	CVN
25/Sep/2024 14:00	CVN
25/Sep/2024 14:12	CVN
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25/Sep/2024 21:40	LOT#240924-C
25/Sep/2024 21:52	CVN
	0.000
	#DIV/0!
	#DIV/0!

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2454719-04		
Matrix Spike	: WG1976224-3	**MS Analysis Date**	: 09/25/24 15:01
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bromide	**ND**	**0.4**	**0.402**	**100**					**90-110**	**20**

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/25/24 15:25
Dup Sample ID	: WG1976224-4	**DUP Analysis Date**	: 09/25/24 15:13

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Bromide	ND	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2454352
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1976224-2	**LCS Analysis Date**	: 09/25/24 13:12
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bromide	0.800	0.826	103.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Bromide	24959-67-9	0.05	0.0132	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		64-148	18	18	9056	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		90-110	18	18	300.0	28 days	1 - Plastic 250ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		81-124	15	15	9056	28 days	1 - Plastic 500ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		90-110	15	15	300.0	28 days	1 - Plastic 500ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		90-110	15	15	300.0	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		80-120	15	15	9056	48 hours	1 - Plastic 250ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		72-124	20	20	9056	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 500ml unpreserved

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

Calculations of Anions by Ion Chromatography

Aqueous samples:

The Dionex calculates the area of the peaks produced by the instrument, compares them to the peak area of the calibration standard stored in its memory, and calculates result in mg/L.

If the sample was manually diluted prior to analysis, the calculated mean must be manually multiplied by the dilution factor. The Reported Detection Limit is also multiplied by the same dilution factor.

$$\text{Result, mg/L} = \frac{\text{area - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$